



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 07:54 am BST

PDB ID : 4YLN
Title : E. coli Transcription Initiation Complex - 17-bp spacer and 4-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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

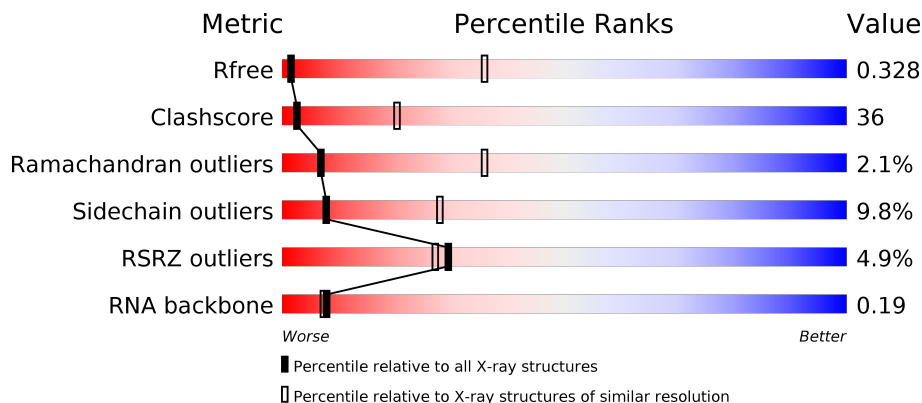
1 Overall quality at a glance

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.





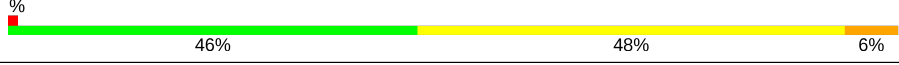

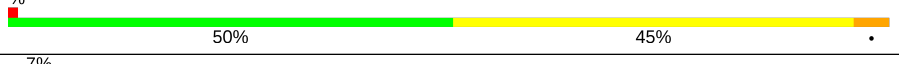
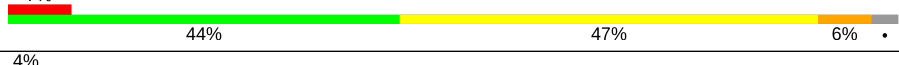
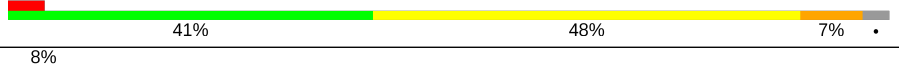




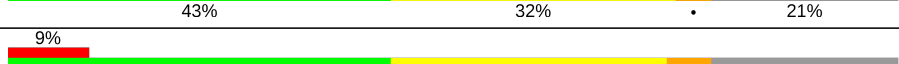

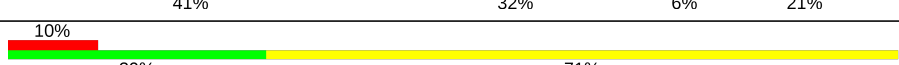
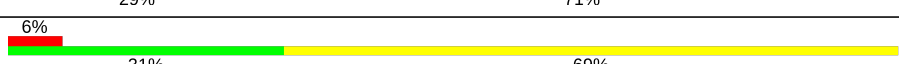
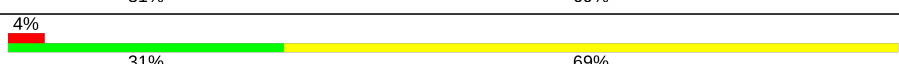
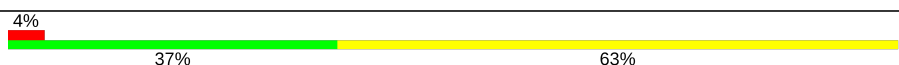
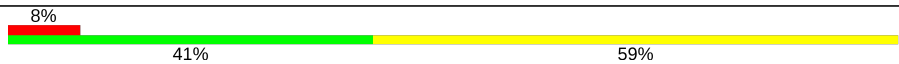
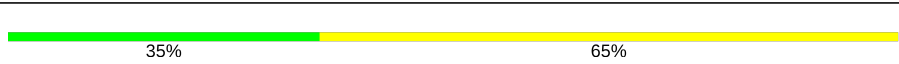
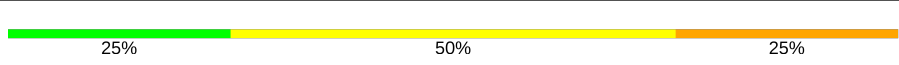

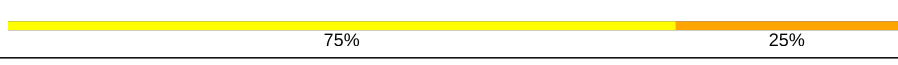

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1019 (7.12-3.82)
Clashscore	141614	1010 (7.10-3.90)
Ramachandran outliers	138981	1014 (7.12-3.82)
Sidechain outliers	138945	1191 (7.20-3.80)
RSRZ outliers	127900	1023 (7.08-3.76)
RNA backbone	3102	1074 (7.80-3.00)

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 ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	4	
8	6	4	
8	9	4	

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
9	ZN	J	1502	-	-	X	-

2 Entry composition i

There are 10 unique types of molecules in this entry. The entry contains 94608 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
			Total	C	N	O	S			
1	A	230	Total 1787	C 1112	N 317	O 352	S 6	0	0	0
1	B	228	Total 1767	C 1100	N 312	O 349	S 6	0	0	0
1	G	230	Total 1787	C 1112	N 317	O 352	S 6	0	0	0
1	H	228	Total 1767	C 1100	N 312	O 349	S 6	0	0	0
1	M	230	Total 1787	C 1112	N 317	O 352	S 6	0	0	0
1	N	228	Total 1767	C 1100	N 312	O 349	S 6	0	0	0

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
			Total	C	N	O	S			
2	C	1341	10576	6636	1842	2055	43	0	0	0
2	I	1341	10576	6636	1842	2055	43	0	0	0
2	O	1341	10576	6636	1842	2055	43	0	0	0

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

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

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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'-D*(GTP))-R(P*AP*GP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	3	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			
8	6	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			
8	9	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			

- 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		

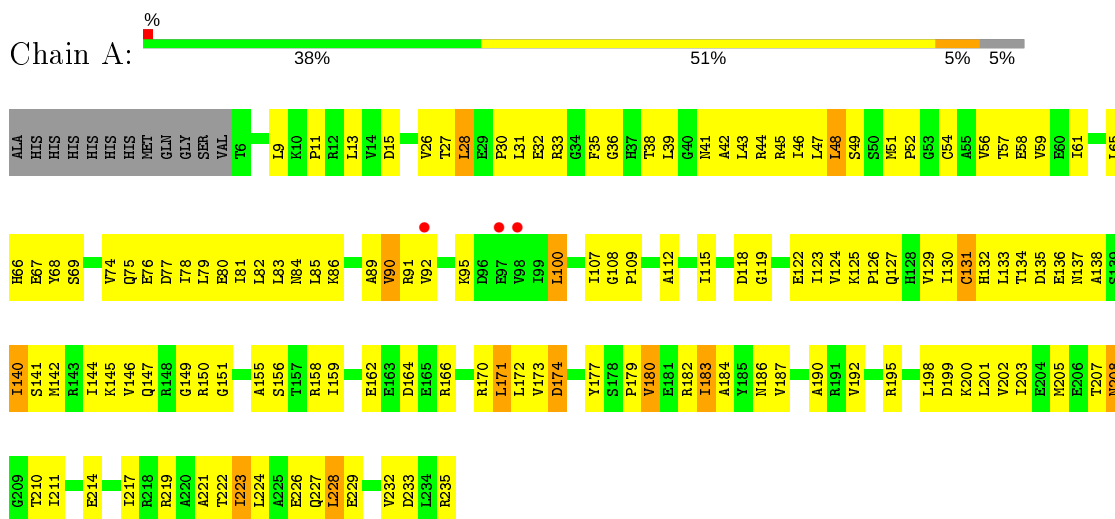
- Molecule 10 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	P	1	Total	Mg	0	0
			1	1		
10	D	1	Total	Mg	0	0
			1	1		
10	6	1	Total	Mg	0	0
			1	1		

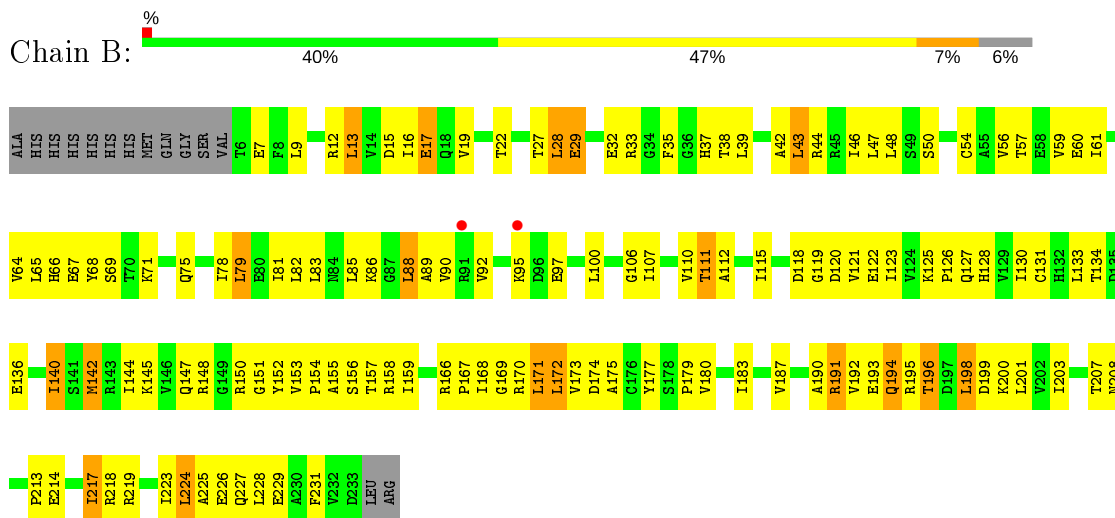
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes 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

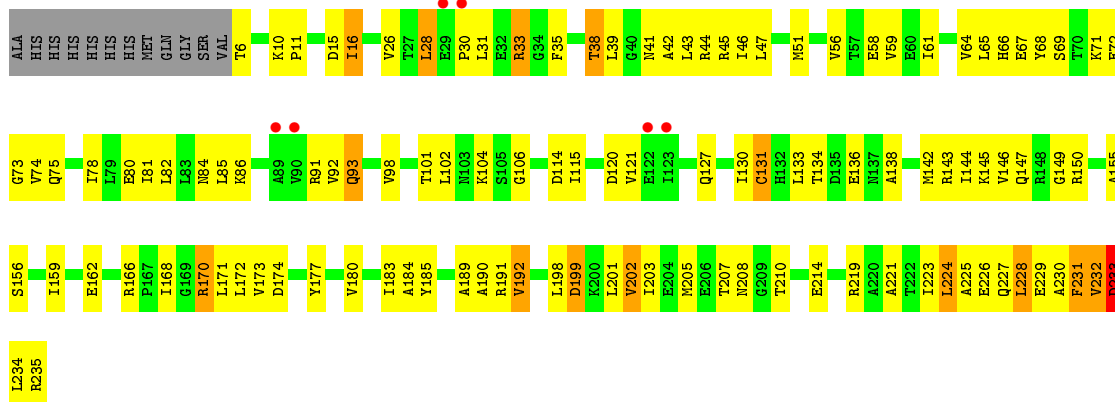


- Molecule 1: DNA-directed RNA polymerase subunit alpha

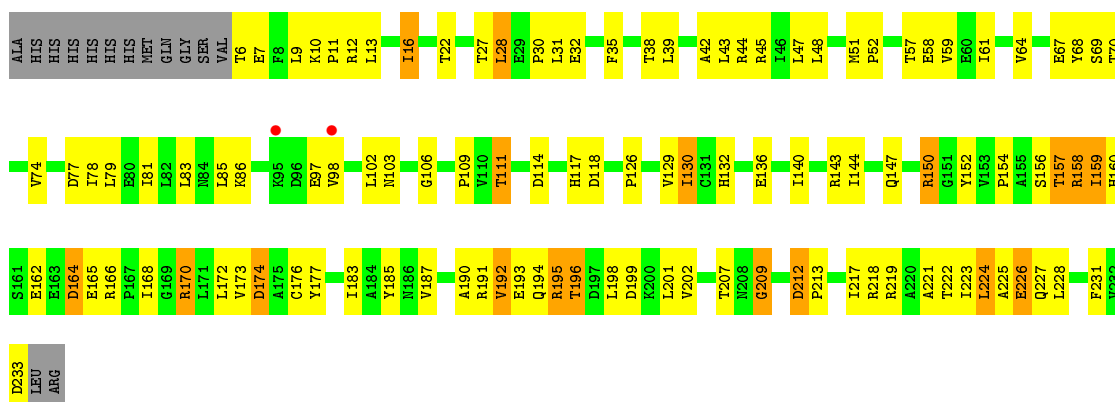


- Molecule 1: DNA-directed RNA polymerase subunit alpha

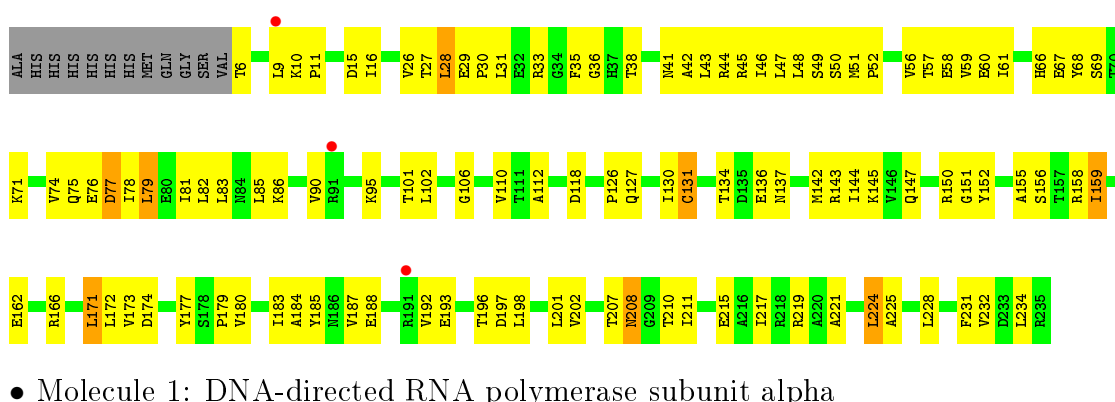




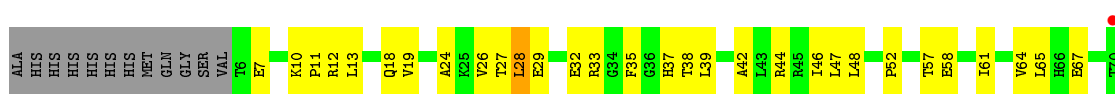
• Molecule 1: DNA-directed RNA polymerase subunit alpha

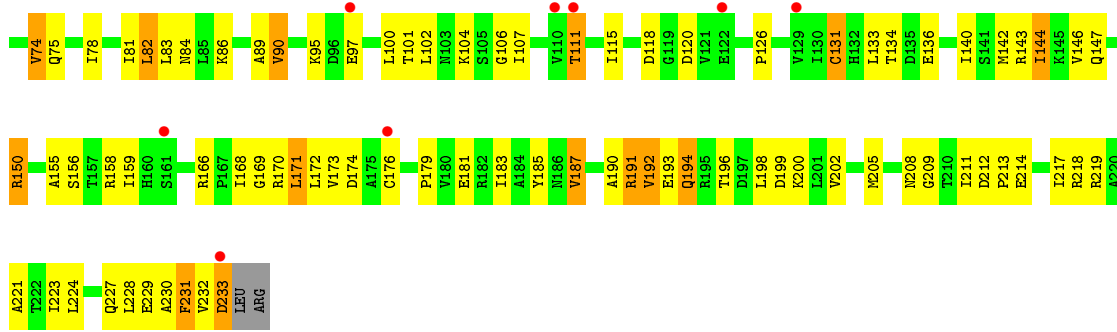


• Molecule 1: DNA-directed RNA polymerase subunit alpha

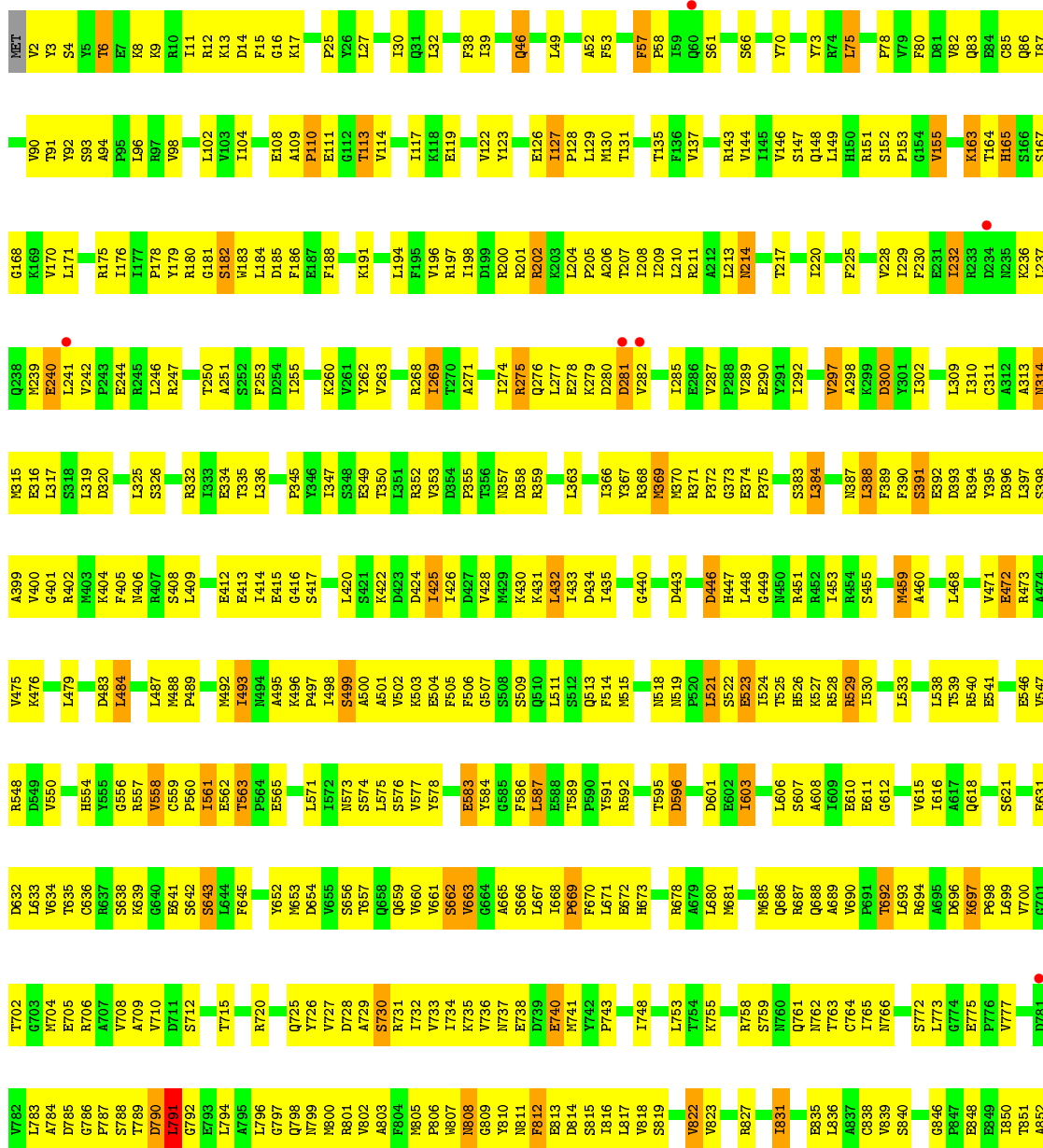


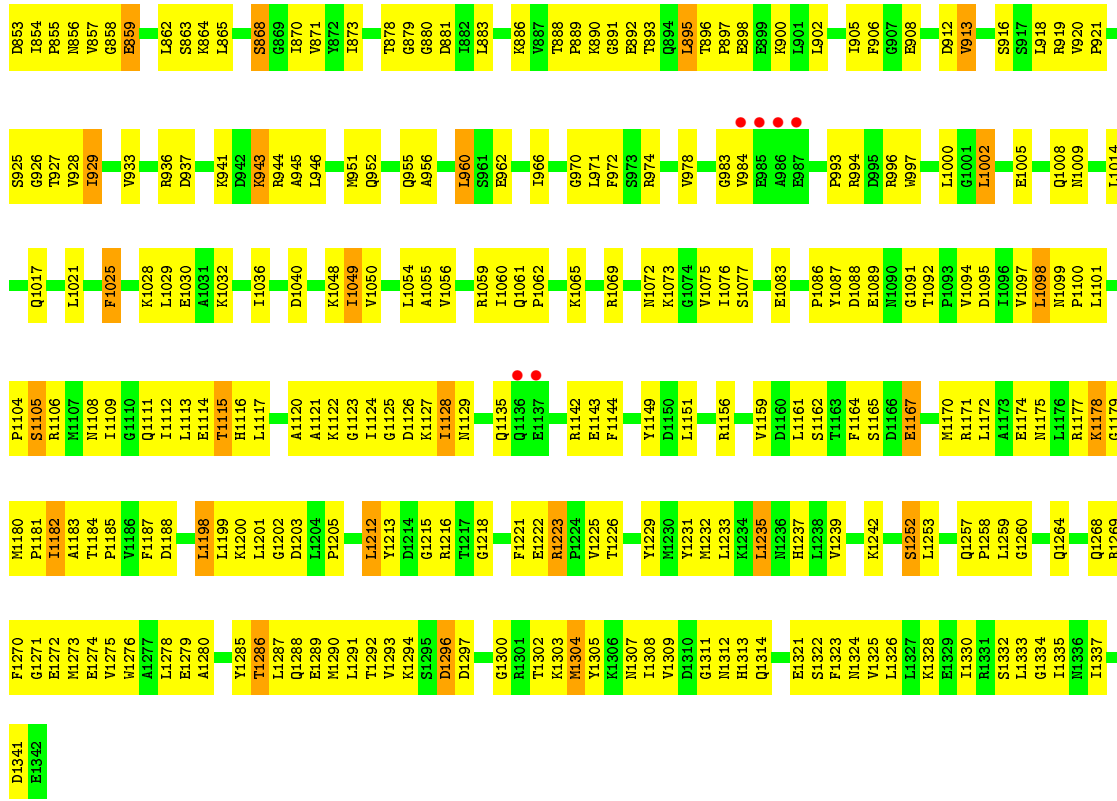
• Molecule 1: DNA-directed RNA polymerase subunit alpha



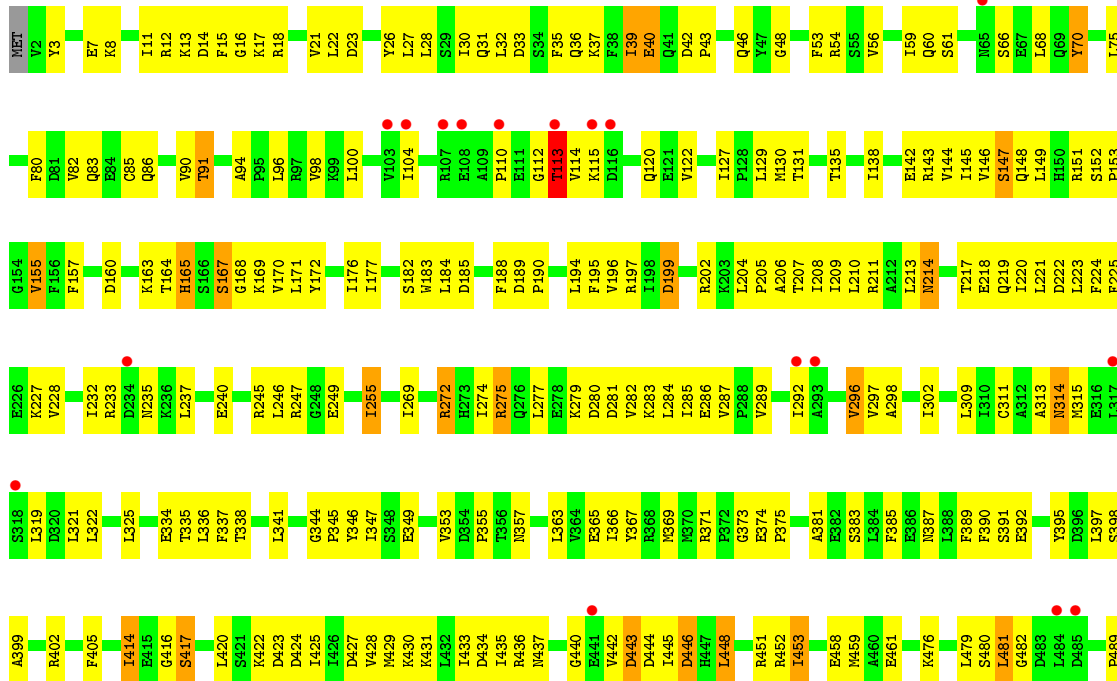


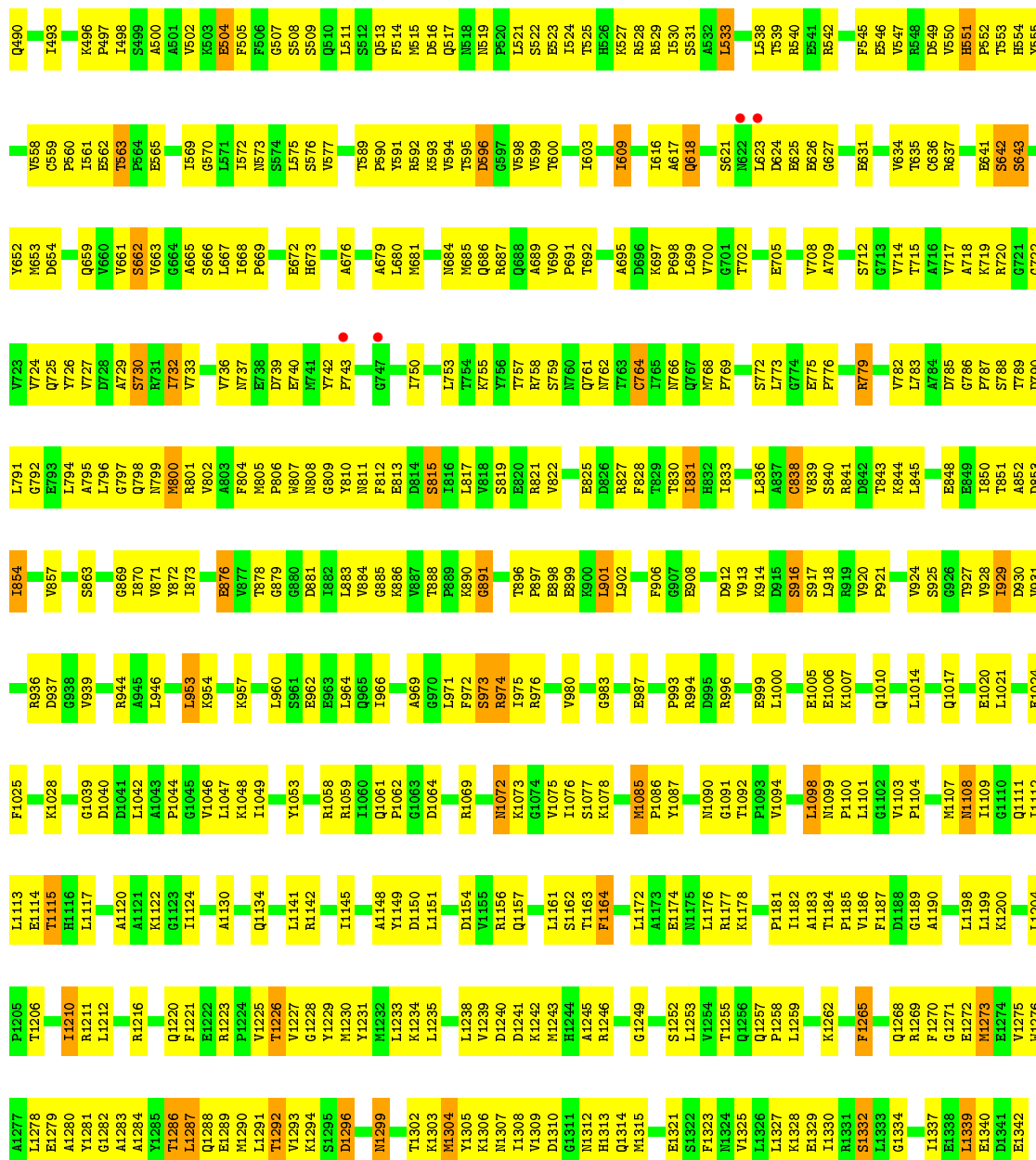
• Molecule 2: DNA-directed RNA polymerase subunit beta



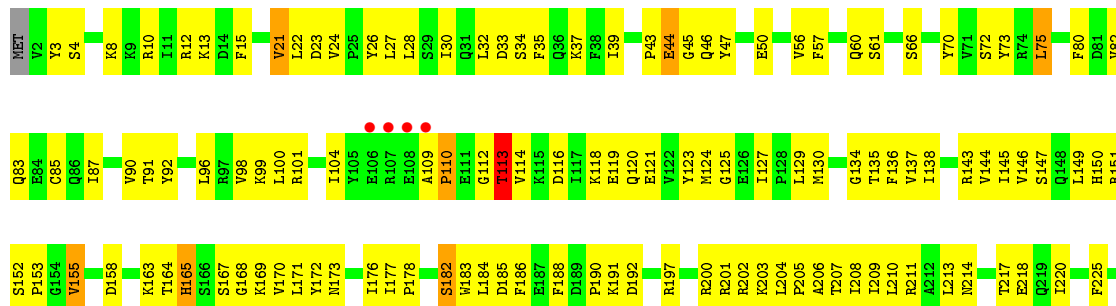


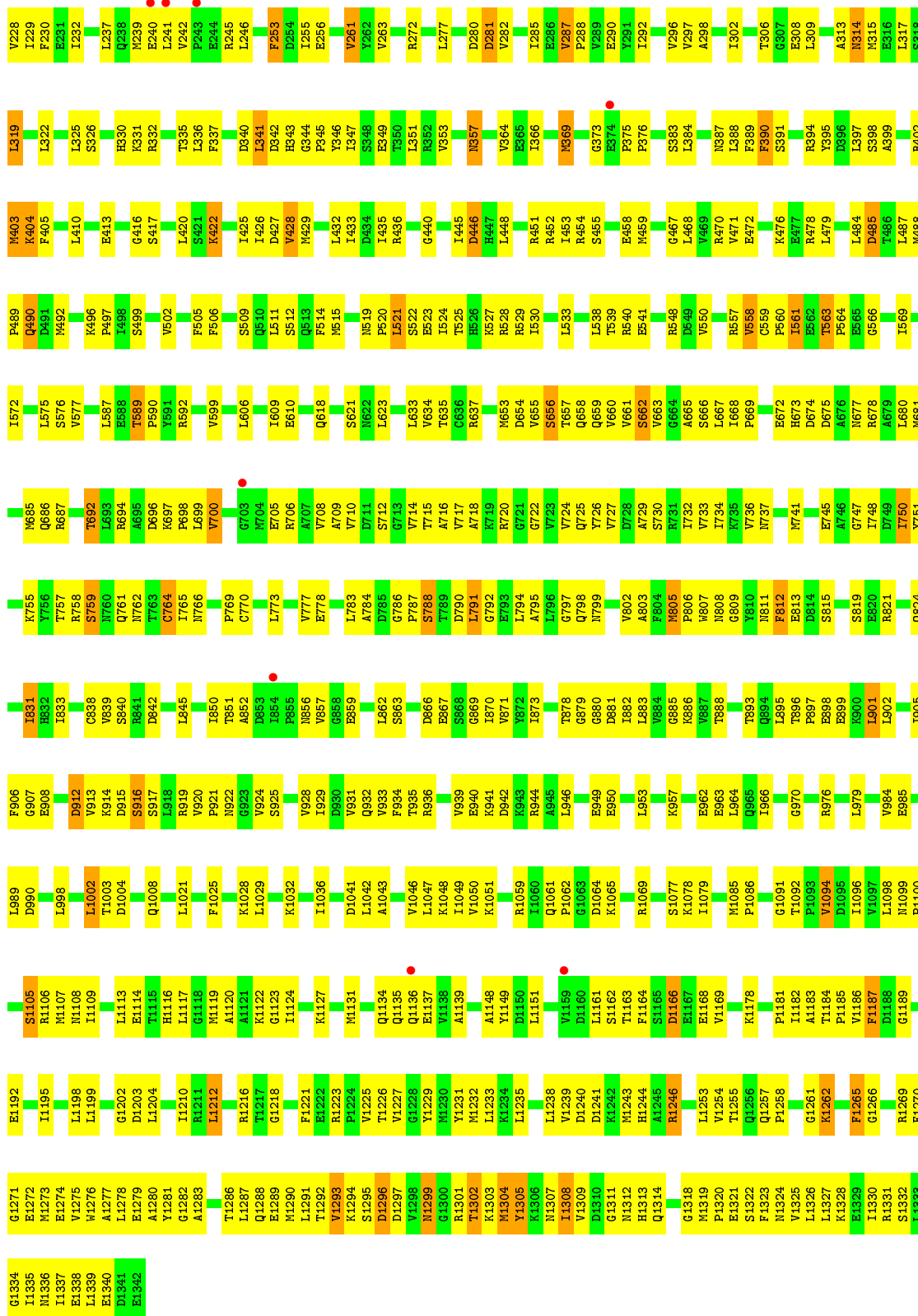
• Molecule 2: DNA-directed RNA polymerase subunit beta





● Molecule 2: DNA-directed RNA polymerase subunit beta

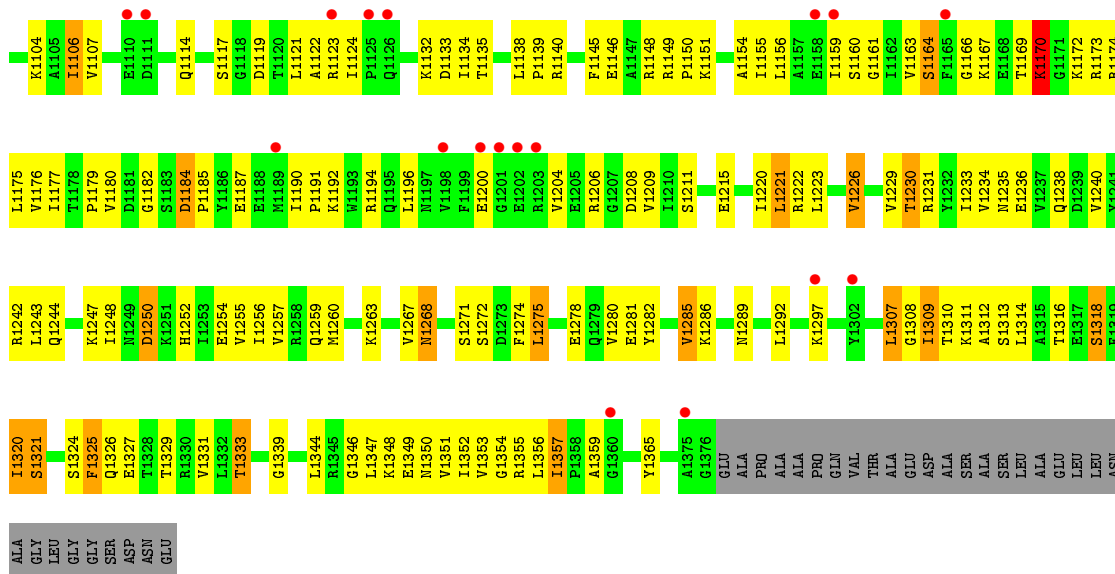




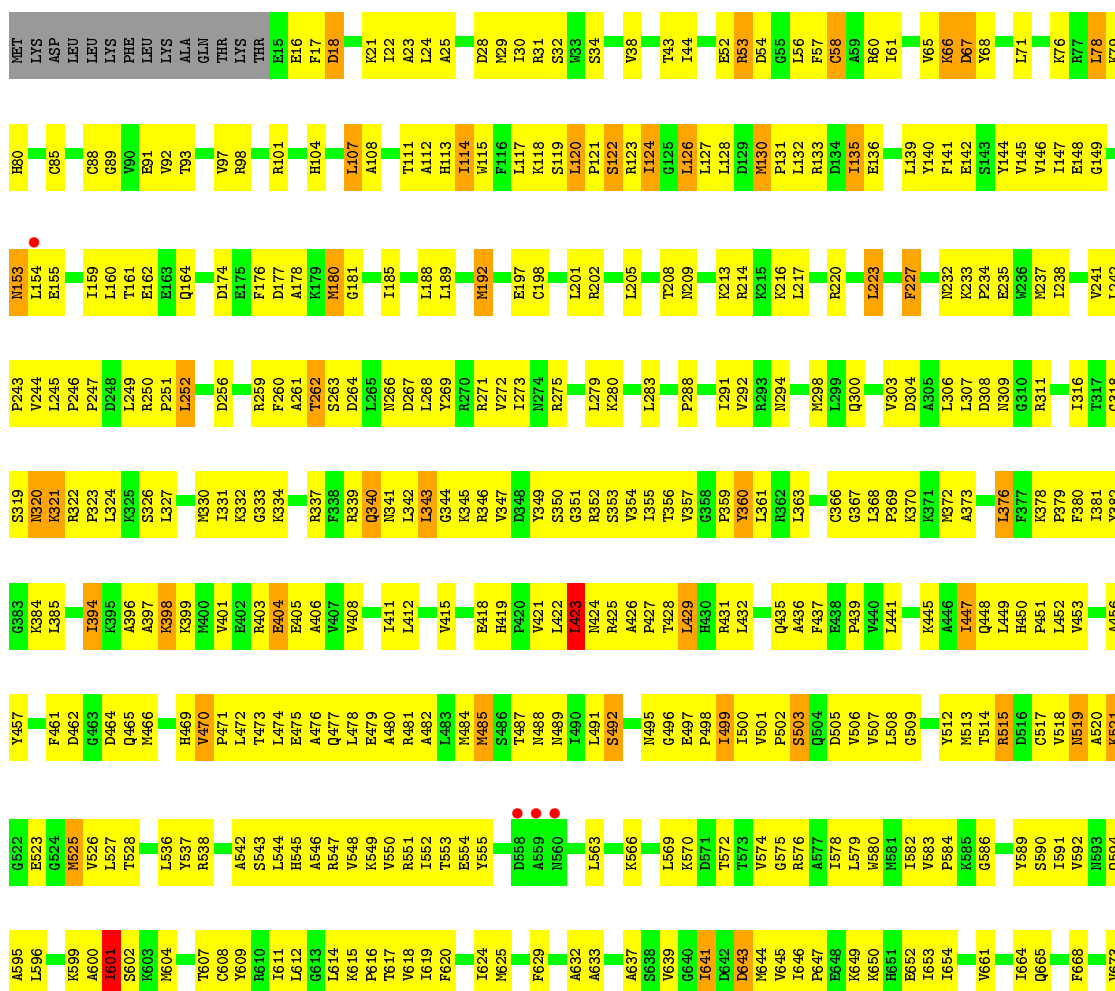
• Molecule 3: DNA-directed RNA polymerase subunit beta'

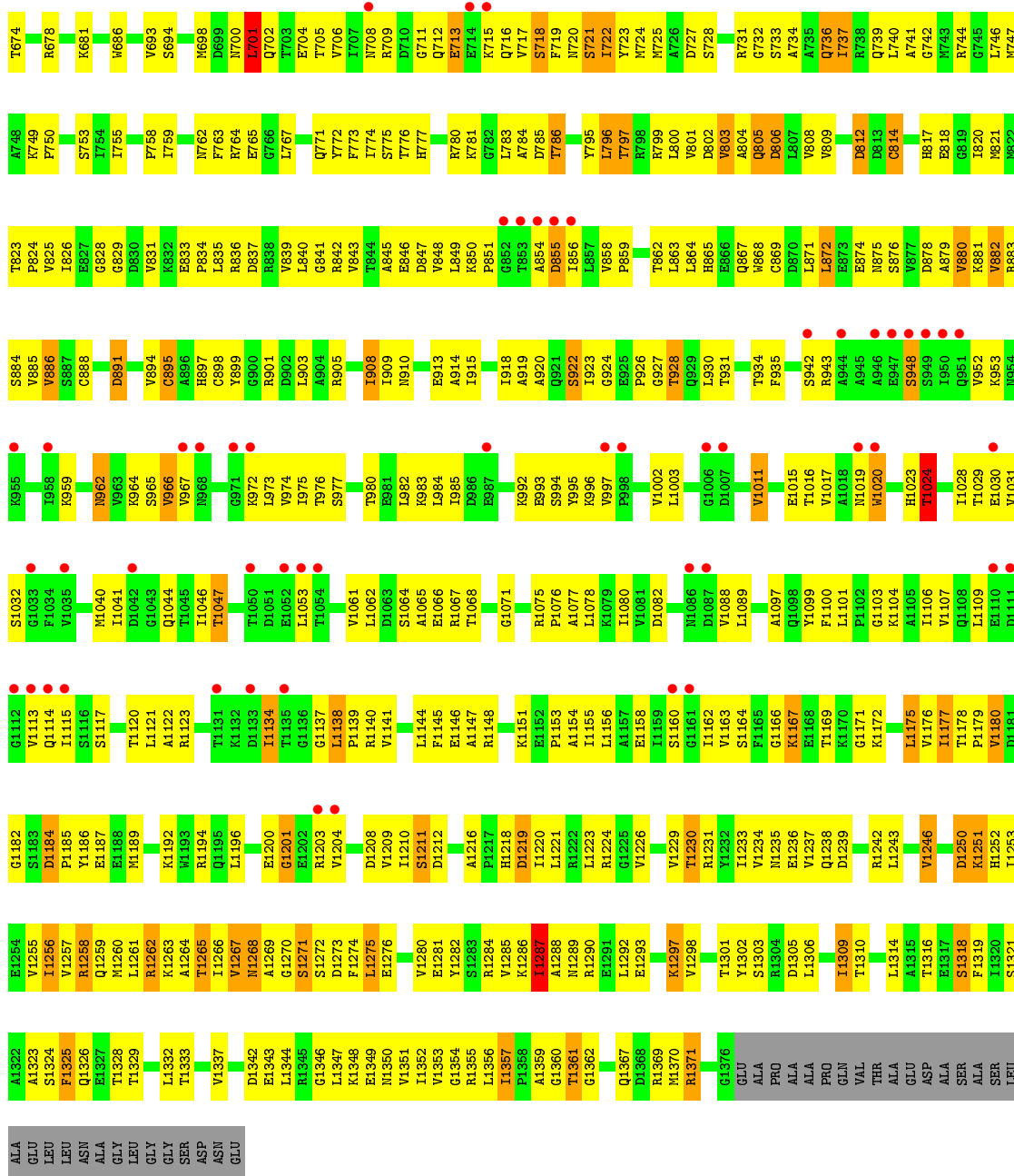


V1035	V1036	F1037	T1038	D1039	M1040	T1041	D1042	G1043	Q1044	T1045	T1046	T1047	R1048	Q1049	T1050	D1051	E1052	L1053	T1054	L1059	V1060	V1061	L1062	D1063	S1064	A1065	A1066	R1067	G1071	L1074	R1075	P1076	A1077	L1078	K1079	I1080	V1081	Q1084	M1085	D1087	V1088	L1089	L1090	P1091	G1092	T1093	D1094	M1095	A1096	A1097	Q1098	V1099	F1100	L1101									
V966	V967	V968	K972	V973	V974	V975	V976	V977	V978	V979	V980	V981	V982	V983	V984	V985	V986	V987	V988	T991	S992	V993	S994	V995	V996	V997	V998	V999	V1002	L1003	A1004	K1005	G1006	D1007	V1011	A1012	G1013	G1014	E1015	T1016	V1017	A1018	N1019	V1020	D1021	P1022	H1023	T1024	V1027	L1028	T1029	E1030	V1031	S1032	S965								
S811	D812	C813	C814	G815	T816	H817	E818	G819	T823	P824	V825	L826	E827	G828	G829	L830	H831	E832	E833	F834	L835	R836	R837	R838	R839	L840	G841	R842	E844	D847	L849	A854	D855	L856	R860	L863	E873	E874	N875	S876	H877	D878	A879	R880	K881	V882	R883	S884	V885	V886	S887	C888											
M743	R744	G745	L746	M747	A748	K749	F750	S753	T754	V755	F756	T757	F758	T759	T760	A761	N762	F763	R764	L767	N768	V769	L770	Q771	T772	F773	T774	S775	T776	H777	R780	T786	A787	L788	R789	T790	S793	V795	L796	T797	R798	R799	L800	V801	D802	V803	A804	Q805	D806	L807	V808	V809	T810										
Q665	F668	G671	L672	V673	T674	K681	V682	I683	V686	M697	M698	D699	N700	L701	Q702	T703	E704	T705	F706	T707	R709	D710	G711	T712	E713	E714	Q715	Q716	V717	S718	F719	N720	T721	T722	M723	M724	A725	A726	D727	V728	G729	G730	A731	A734	D642	D643	M644	V645	I646	P647	E648	I654	I664										
S590	T514	V592	A595	L596	G597	K598	K599	A600	I601	S602	K603	M604	T607	G608	V609	L612	G613	A614	K615	P616	T617	V618	R619	K620	A621	D622	T623	E624	V625	F629	A630	V631	A632	A633	R634	S635	G636	A637	S638	V639	G640	G641	I641	V642	D643	M644	V645	I646	P647	E648	I654	I664											
Y512	M513	T514	R515	V518	H519	A520	T528	G529	P530	E534	R535	L536	Y537	R538	S539	G540	A542	S543	L544	R547	V548	K549	V550	R551	I552	T553	E554	V555	E556	K557	M558	V559	L563	V564	A565	K566	L569	A570	D571	T572	G573	V574	G575	R576	A577	I578	L579	V580	M581	I582	G586	L587											
K445	A446	I447	Q448	L449	H450	P451	L452	L385	A456	L387	R388	F461	D464	Q465	A466	V468	H469	V470	L471	L472	T473	E475	A476	Q477	V478	E479	I481	L412	A481	A482	L483	M484	M485	S486	T487	M488	S492	P493	T494	A495	G496	E497	R498	L499	I500	V501	P502	S503	Q504	E438	F437	V439	D505	V506	L510	Y511							
I238	L239	T240	L242	P243	V244	L245	P246	M180	D248	L249	A182	R251	L252	Q186	V253	L254	L189	K190	H112	H113	I114	M115	F116	P121	S122	R123	I124	L127	L128	D129	E204	L205	P131	N206	E207	T208	D133	R134	I135	V138	L139	T212	E211	K213	L217	R220	L221	K222	L223	E295	K296	R297	M298	S230	G231	N232	A302	V303	K372	A373	L374	L306	D308
M509	G510	R511	G512	R514	R515	G518	S519	N520	K521	R522	F523	L524	L327	L328	M530	I531	K532	G533	R537	L542	L543	G544	K545	R546	L547	V548	T549	G550	G551	R552	S553	V554	L555	T556	V557	G558	P559	L560	R562	L563	L564	R565	H566	R431	L432	H564	G433	I434	Q435	A436	F437	E438	V439	M581	L441	I442	E443	G444					
F377	K378	P379	F380	I381	G314	A315	G318	S319	N320	K321	R322	F323	L324	K395	A396	A397	K398	M399	V401	E402	R403	E404	V407	V408	V409	D410	I411	L412	I416	P420	R421	L422	L423	N424	R425	A426	T427	L428	H429	R430	H431	L432	P433	L434	Q435	P436	R437	E438	V439	L441	I442	E443	G444										
K445	A446	I447	Q448	L449	H450	P451	L452	L385	A456	L387	R388	F461	D464	Q465	A466	V468	H469	V470	L471	L472	T473	E475	A476	Q477	V478	E479	I481	L412	A481	A482	L483	M484	M485	S486	T487	M488	S492	P493	T494	A495	G496	E497	R498	L499	I500	V501	P502	S503	Q504	E438	F437	V439	D505	V506	L510	Y511							

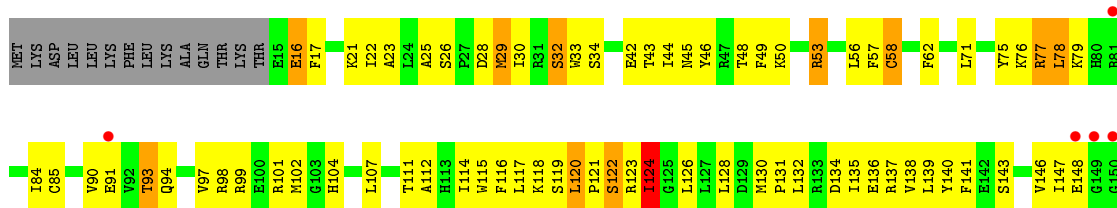


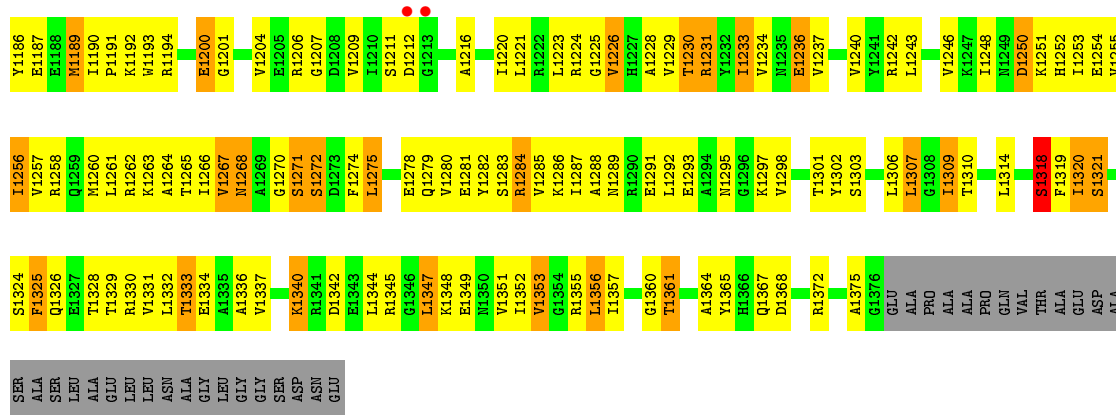
● Molecule 3: DNA-directed RNA polymerase subunit beta'



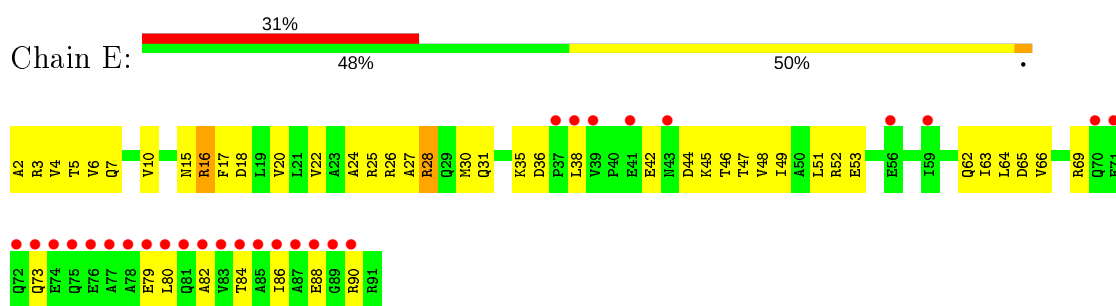


• Molecule 3: DNA-directed RNA polymerase subunit beta'

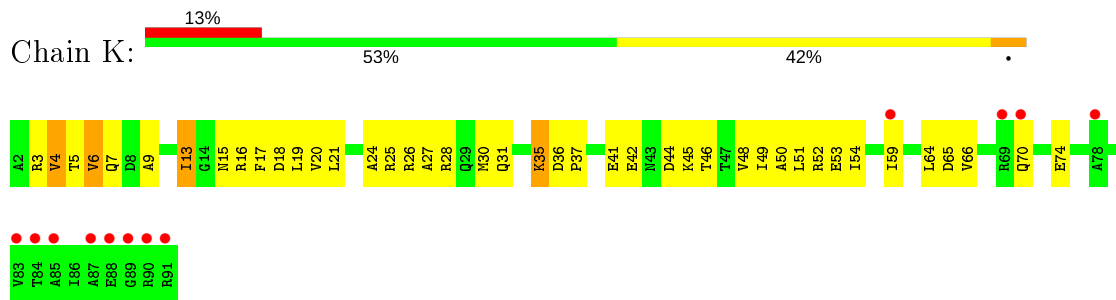




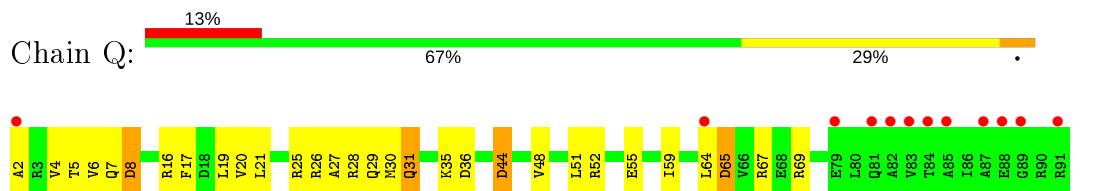
- Molecule 4: DNA-directed RNA polymerase subunit omega



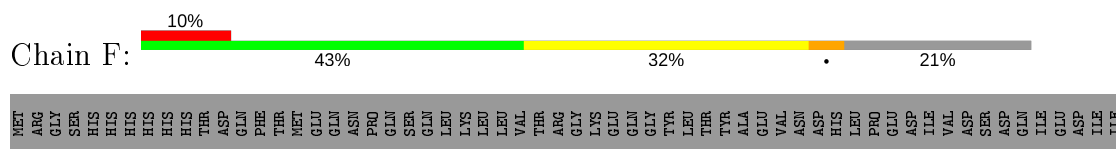
- Molecule 4: DNA-directed RNA polymerase subunit omega

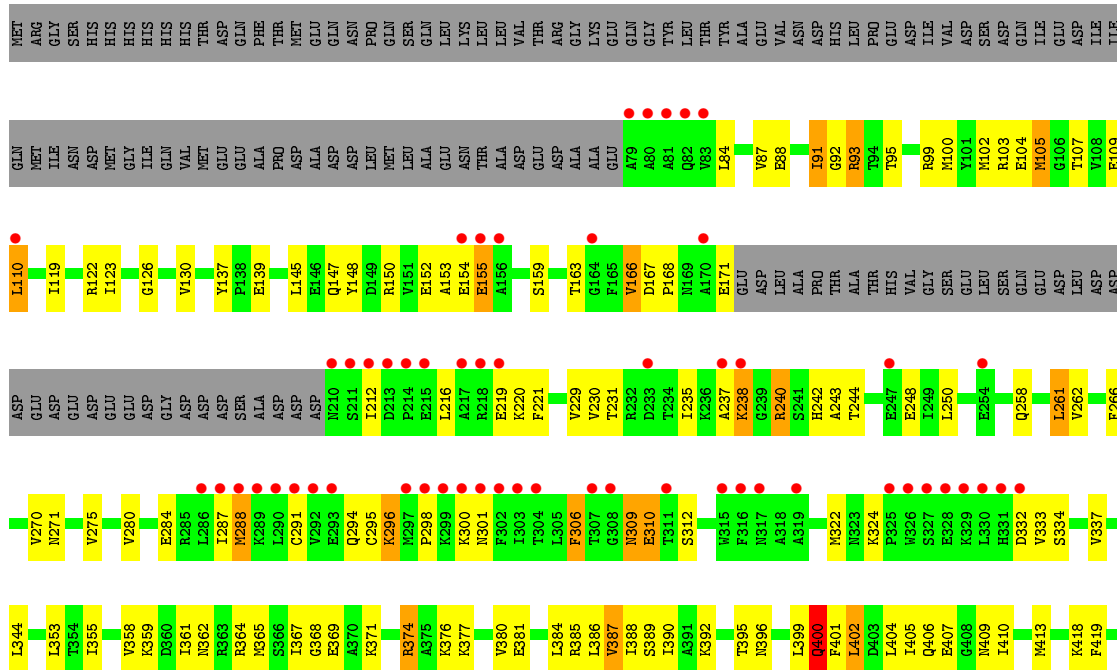
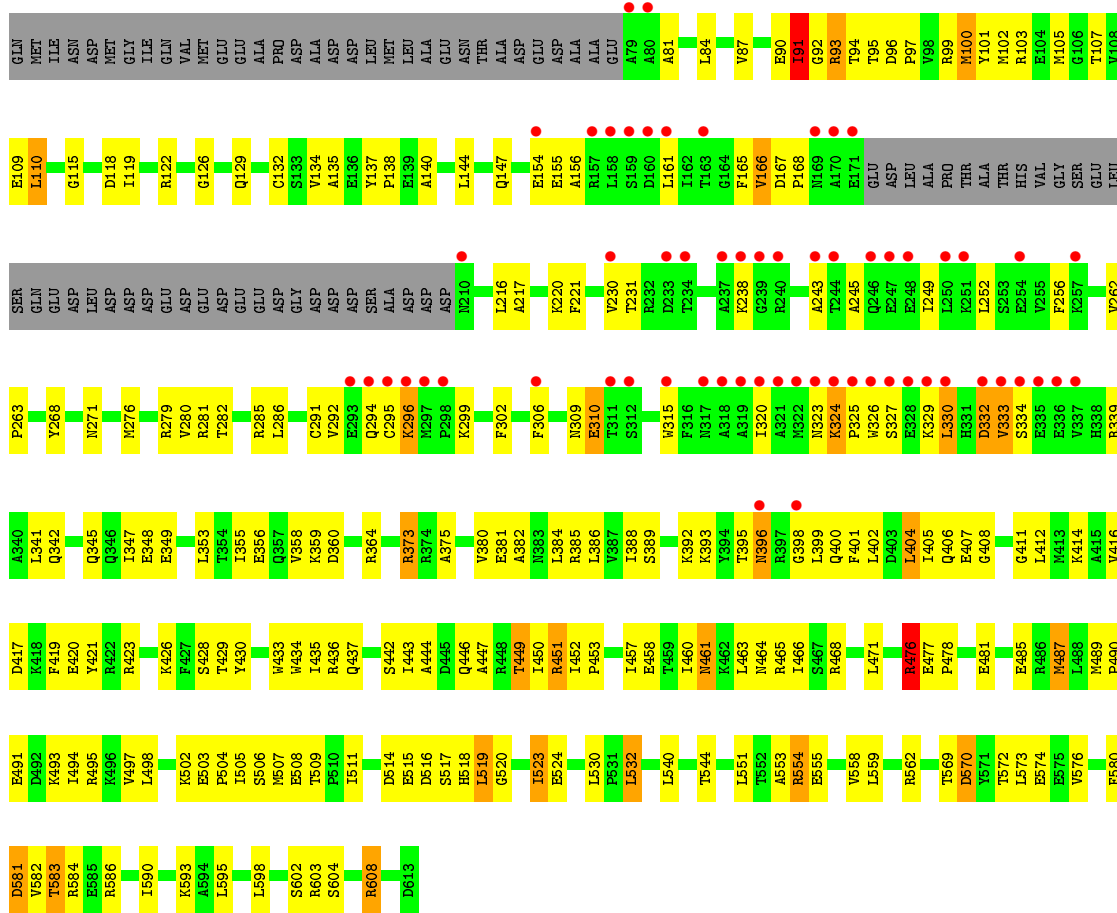


- Molecule 4: DNA-directed RNA polymerase subunit omega

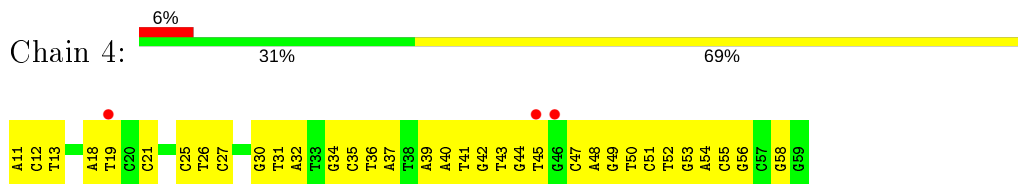


- Molecule 5: RNA polymerase sigma factor RpoD

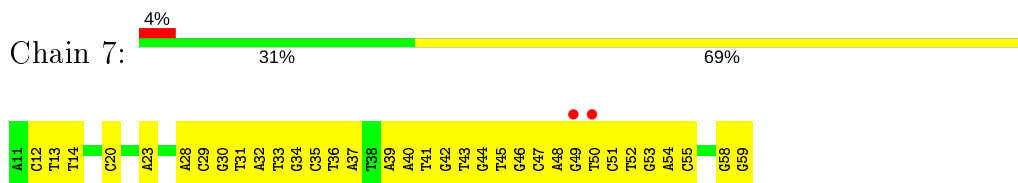




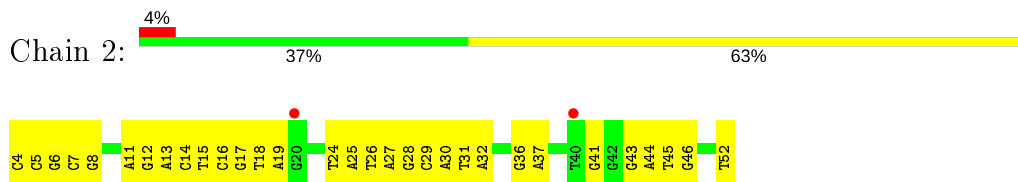
- Molecule 6: NT strand DNA (49-MER)



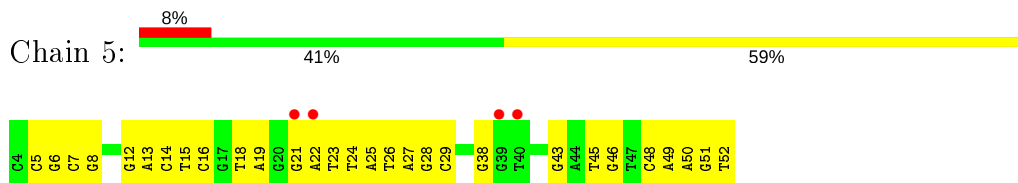
- Molecule 6: NT strand DNA (49-MER)



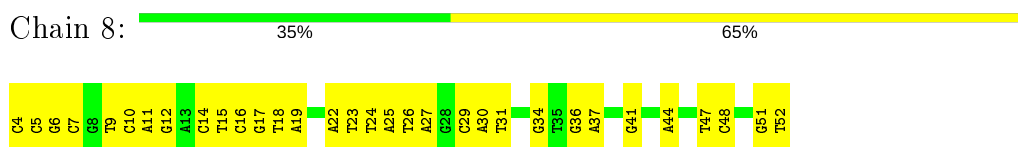
- Molecule 7: T strand DNA (49-MER)



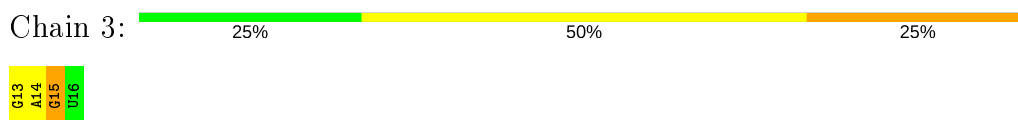
- Molecule 7: T strand DNA (49-MER)



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



- Molecule 8: RNA (5'-D*(GTP))-R(P*AP*GP*U)-3')



- Molecule 8: RNA (5'-D*(GTP))-R(P*AP*GP*U)-3')



- Molecule 8: RNA (5'-D*(GTP))-R(P*AP*GP*U)-3')

Chain 9:



G13
A14
G15
U16

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	237.40Å 206.05Å 248.69Å 90.00° 116.55° 90.00°	Depositor
Resolution (Å)	39.90 – 5.50 39.90 – 5.50	Depositor EDS
% Data completeness (in resolution range)	99.3 (39.90-5.50) 99.6 (39.90-5.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.20 (at 5.37Å)	Xtrriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.245 , 0.328 0.244 , 0.328	Depositor DCC
R_{free} test set	3459 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	268.1	Xtrriage
Anisotropy	0.597	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 203.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtrriage
Estimated twinning fraction	0.045 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	94608	wwPDB-VP
Average B, all atoms (Å ²)	219.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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 i

5.1 Standard geometry i

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	0.59	0/1809	0.84	1/2450 (0.0%)
1	B	0.54	0/1789	0.78	0/2425
1	G	0.56	0/1809	0.76	1/2450 (0.0%)
1	H	0.53	0/1789	0.76	0/2425
1	M	0.53	0/1809	0.74	0/2450
1	N	0.54	0/1789	0.79	2/2425 (0.1%)
2	C	0.54	0/10745	0.78	4/14499 (0.0%)
2	I	0.54	3/10745 (0.0%)	0.77	2/14499 (0.0%)
2	O	0.53	0/10745	0.75	3/14499 (0.0%)
3	D	0.54	0/10729	0.77	4/14487 (0.0%)
3	J	0.58	2/10729 (0.0%)	0.81	10/14487 (0.1%)
3	P	0.55	1/10729 (0.0%)	0.77	6/14487 (0.0%)
4	E	0.54	1/710 (0.1%)	0.72	0/956
4	K	0.53	0/710	0.73	0/956
4	Q	0.52	0/710	0.72	0/956
5	F	0.49	1/4076 (0.0%)	0.69	0/5482
5	L	0.51	0/4076	0.72	0/5482
5	R	0.55	2/4076 (0.0%)	0.74	1/5482 (0.0%)
6	1	0.41	0/1115	0.69	0/1718
6	4	0.33	0/1112	0.66	0/1706
6	7	0.37	0/1114	0.67	0/1714
7	2	0.37	0/1134	0.67	0/1744
7	5	0.35	0/1134	0.65	0/1744
7	8	0.38	0/1136	0.64	0/1752
8	3	0.44	0/72	0.62	0/110
8	6	0.40	0/72	0.61	0/110
8	9	0.36	0/72	0.59	0/110
All	All	0.53	10/96535 (0.0%)	0.76	34/131605 (0.0%)

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	D	0	1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	P	1340	LYS	CB-CG	6.65	1.70	1.52
2	I	626	GLU	CD-OE2	6.62	1.32	1.25
2	I	626	GLU	CD-OE1	5.92	1.32	1.25
5	R	109	GLU	CD-OE1	5.75	1.31	1.25
5	F	491	GLU	CB-CG	5.70	1.62	1.52
2	I	876	GLU	CD-OE1	5.69	1.31	1.25
3	J	155	GLU	CD-OE2	5.67	1.31	1.25
4	E	88	GLU	CD-OE1	5.33	1.31	1.25
5	R	609	SER	CB-OG	5.16	1.49	1.42
3	J	85	CYS	CB-SG	-5.00	1.73	1.81

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	737	ILE	CB-CA-C	-7.98	95.64	111.60
3	J	803	VAL	CB-CA-C	-7.38	97.38	111.40
5	R	488	LEU	CA-CB-CG	7.32	132.12	115.30
3	D	737	ILE	CB-CA-C	-7.15	97.30	111.60
2	O	57	PHE	C-N-CD	-7.09	105.00	120.60
3	P	120	LEU	C-N-CD	-7.03	105.14	120.60
1	N	233	ASP	CB-CG-OD1	6.82	124.44	118.30
2	C	57	PHE	C-N-CD	-6.71	105.83	120.60
1	N	29	GLU	C-N-CD	-6.57	106.16	120.60
3	D	774	ILE	CB-CA-C	-6.51	98.58	111.60
3	P	803	VAL	CB-CA-C	-6.47	99.11	111.40
3	J	1287	ILE	CB-CA-C	-6.21	99.19	111.60
3	J	120	LEU	C-N-CD	-6.19	106.99	120.60
3	D	563	LEU	CA-CB-CG	5.83	128.72	115.30
2	O	1308	ILE	CB-CA-C	-5.83	99.93	111.60
3	J	423	LEU	CA-CB-CG	-5.67	102.27	115.30
3	J	71	LEU	CA-CB-CG	5.66	128.31	115.30
2	I	603	ILE	CB-CA-C	-5.65	100.30	111.60
3	D	506	VAL	CB-CA-C	-5.62	100.72	111.40
3	J	499	ILE	CB-CA-C	-5.62	100.35	111.60
3	J	601	ILE	CB-CA-C	-5.58	100.44	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1054	LEU	CA-CB-CG	5.56	128.10	115.30
2	C	1198	LEU	CA-CB-CG	-5.47	102.71	115.30
3	P	374	LEU	CA-CB-CG	5.46	127.85	115.30
1	A	74	VAL	CB-CA-C	-5.44	101.07	111.40
3	P	124	ILE	CB-CA-C	-5.32	100.97	111.60
2	C	587	LEU	CA-CB-CG	-5.28	103.17	115.30
2	I	838	CYS	CA-CB-SG	-5.28	104.50	114.00
3	J	1089	LEU	CA-CB-CG	5.17	127.19	115.30
3	P	468	VAL	CB-CA-C	-5.15	101.61	111.40
1	G	231	PHE	CB-CA-C	-5.14	100.11	110.40
2	O	998	LEU	CA-CB-CG	5.14	127.11	115.30
3	P	796	LEU	CA-CB-CG	5.12	127.08	115.30
3	J	701	LEU	CA-CB-CG	-5.11	103.55	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D	671	GLY	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1787	0	1813	220	0
1	B	1767	0	1789	175	0
1	G	1787	0	1812	173	0
1	H	1767	0	1789	149	0
1	M	1787	0	1813	178	0
1	N	1767	0	1789	142	0
2	C	10576	0	10591	868	0
2	I	10576	0	10591	845	0
2	O	10576	0	10591	771	0
3	D	10568	0	10782	856	3
3	J	10568	0	10780	1069	2
3	P	10568	0	10780	901	0
4	E	708	0	719	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	K	708	0	719	48	0
4	Q	708	0	719	36	0
5	F	4022	0	4083	243	0
5	L	4022	0	4083	270	0
5	R	4022	0	4083	282	0
6	1	996	0	554	70	1
6	4	996	0	557	76	0
6	7	996	0	555	74	0
7	2	1012	0	556	62	0
7	5	1012	0	556	59	0
7	8	1012	0	554	64	0
8	3	97	0	44	7	0
8	6	97	0	44	8	0
8	9	97	0	44	4	0
9	D	2	0	0	0	0
9	J	2	0	0	2	0
9	P	2	0	0	0	0
10	6	1	0	0	0	0
10	D	1	0	0	0	0
10	P	1	0	0	0	0
All	All	94608	0	92790	6821	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 (6821) 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)
3:D:608:CYS:SG	3:D:617:THR:HG22	1.31	1.67
3:D:501:VAL:CG1	3:D:502:PRO:HD2	1.33	1.55
3:J:349:TYR:O	3:J:470:VAL:HG23	1.24	1.30
3:D:645:VAL:CG2	3:D:701:LEU:HD13	1.59	1.30
5:L:573:LEU:HB2	7:5:46:DG:OP2	1.15	1.28
3:P:373:ALA:HA	3:P:376:LEU:CD1	1.64	1.28
2:O:75:LEU:CD2	2:O:127:ILE:HD12	1.63	1.27
2:I:661:VAL:CG1	2:I:665:ALA:HB3	1.65	1.27
1:M:47:LEU:HD13	1:M:183:ILE:CD1	1.65	1.26
3:J:814:CYS:SG	9:J:1502:ZN:ZN	1.23	1.26
3:J:135:ILE:O	3:J:139:LEU:HG	1.31	1.25
2:O:1294:LYS:HD3	3:P:347:VAL:CG1	1.66	1.25
3:P:233:LYS:HE2	3:P:236:TRP:NE1	1.48	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1164:SER:O	3:J:1175:LEU:CD1	1.84	1.25
2:C:206:ALA:O	2:C:209:ILE:HG22	1.32	1.24
3:D:608:CYS:SG	3:D:617:THR:CG2	2.25	1.23
3:J:1175:LEU:HD12	3:J:1176:VAL:N	1.52	1.23
3:J:1282:TYR:O	3:J:1285:VAL:HG12	1.36	1.23
3:D:139:LEU:CD2	3:D:185:ILE:CD1	2.16	1.22
2:C:1104:PRO:HG3	3:D:725:MET:CE	1.66	1.22
3:P:339:ARG:NH2	3:P:1325:PHE:O	1.71	1.22
3:P:1266:ILE:HD12	3:P:1278:GLU:CB	1.69	1.22
2:C:819:SER:O	2:C:822:VAL:HG23	1.39	1.21
3:D:135:ILE:O	3:D:139:LEU:HG	1.38	1.21
5:R:449:THR:OG1	5:R:504:PRO:HG3	1.40	1.18
2:C:1287:LEU:HD23	3:D:1357:ILE:HD11	1.25	1.18
2:O:838:CYS:SG	2:O:886:LYS:HE3	1.84	1.18
2:C:539:THR:HG22	2:C:540:ARG:H	1.03	1.17
3:D:501:VAL:CG1	3:D:502:PRO:CD	2.21	1.17
3:J:1163:VAL:CG2	3:J:1177:ILE:HG23	1.74	1.16
2:I:1286:THR:OG1	3:J:479:GLU:OE2	1.64	1.16
3:J:1145:PHE:CE1	3:J:1256:ILE:HD12	1.81	1.16
2:C:149:LEU:HD11	2:C:451:ARG:HB3	1.20	1.16
3:P:449:LEU:HD12	3:P:450:HIS:H	1.07	1.16
2:O:1282:GLY:HA3	4:Q:17:PHE:CE1	1.80	1.16
3:D:645:VAL:HG22	3:D:701:LEU:CD1	1.76	1.16
1:H:158:ARG:O	1:H:160:HIS:N	1.78	1.15
2:C:886:LYS:HD2	2:C:916:SER:HB2	1.27	1.15
3:J:242:LEU:HD12	3:J:243:PRO:HD2	1.15	1.15
5:F:97:PRO:HA	5:F:100:MET:HG3	1.29	1.14
3:J:1318:SER:OG	3:J:1321:SER:HB3	1.43	1.14
1:N:179:PRO:HG3	1:N:211:ILE:HD12	1.29	1.14
3:D:556:GLU:HB3	3:D:564:VAL:HB	1.23	1.14
1:M:79:LEU:HA	1:M:82:LEU:HD12	1.24	1.14
3:P:1318:SER:OG	3:P:1321:SER:HB3	1.45	1.14
5:R:520:GLY:HA2	5:R:523:ILE:HD12	1.28	1.14
3:D:416:ILE:HD13	3:D:441:LEU:HD21	1.28	1.14
3:D:501:VAL:HG12	3:D:502:PRO:CD	1.78	1.14
2:I:206:ALA:O	2:I:209:ILE:HG22	1.44	1.14
1:G:189:ALA:HA	1:G:199:ASP:HB3	1.26	1.14
1:A:35:PHE:O	1:A:39:LEU:HG	1.47	1.13
1:B:88:LEU:HD22	1:B:128:HIS:CD2	1.84	1.13
3:D:749:LYS:HB3	3:D:750:PRO:CD	1.75	1.13
2:I:1124:ILE:HD11	2:I:1198:LEU:HD11	1.28	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:886:LYS:HD2	2:O:916:SER:HB2	1.17	1.12
3:J:1145:PHE:O	3:J:1309:ILE:HG13	1.46	1.12
3:D:1169:THR:HB	3:D:1172:LYS:HB2	1.32	1.12
1:G:47:LEU:HD13	1:G:183:ILE:CD1	1.79	1.12
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.30	1.12
3:J:746:LEU:HG	3:J:758:PRO:HB3	1.30	1.12
3:J:1164:SER:O	3:J:1175:LEU:HD11	1.50	1.12
2:O:204:LEU:HB3	2:O:205:PRO:HD2	1.32	1.12
3:D:747:MET:HE1	3:D:775:SER:HA	1.32	1.11
2:I:1332:SER:OG	3:J:245:LEU:HD13	1.48	1.11
2:C:197:ARG:HB3	2:C:200:ARG:HA	1.31	1.11
2:O:569:ILE:HD13	3:P:784:ALA:HB2	1.24	1.11
3:D:282:LEU:HD22	3:D:287:ALA:CB	1.79	1.11
2:C:1225:VAL:HG22	3:D:638:SER:HB3	1.23	1.11
1:A:100:LEU:HD13	1:A:115:ILE:HG21	1.32	1.11
3:D:664:ILE:HG21	3:D:681:LYS:HD3	1.31	1.11
1:B:158:ARG:HH21	1:B:175:ALA:HB2	1.07	1.11
1:G:44:ARG:HA	1:G:47:LEU:HD12	1.26	1.11
2:C:557:ARG:HD3	2:C:587:LEU:HB3	1.32	1.11
2:O:344:GLY:HA3	2:O:346:TYR:CE2	1.85	1.11
1:B:47:LEU:HD13	1:B:183:ILE:HD12	1.29	1.10
3:P:521:LYS:HD2	3:P:543:SER:HB2	1.11	1.10
2:O:75:LEU:HD21	2:O:127:ILE:CD1	1.81	1.10
3:D:1046:ILE:HD12	3:D:1059:LEU:HD22	1.31	1.10
3:D:139:LEU:HD23	3:D:185:ILE:HD11	1.11	1.10
1:A:79:LEU:HA	1:A:82:LEU:HD12	1.15	1.10
3:D:502:PRO:HG2	3:D:601:ILE:CG2	1.82	1.10
3:J:749:LYS:HB3	3:J:750:PRO:HD2	1.30	1.10
3:J:1175:LEU:HD12	3:J:1176:VAL:H	0.95	1.10
3:D:1318:SER:OG	3:D:1321:SER:HB3	1.49	1.09
5:F:84:LEU:HG	5:F:107:THR:HG21	1.14	1.09
3:D:353:SER:HB2	3:D:372:MET:HE1	1.12	1.09
2:I:1042:LEU:HD13	2:I:1049:ILE:CD1	1.81	1.09
3:J:734:ALA:HA	3:J:737:ILE:CD1	1.82	1.09
3:D:720:ASN:O	3:D:724:MET:HG3	1.52	1.09
1:M:47:LEU:HD13	1:M:183:ILE:HD13	1.33	1.09
3:D:1274:PHE:O	3:D:1275:LEU:HB2	1.51	1.08
3:P:544:LEU:HD22	3:P:578:ILE:HD11	1.35	1.08
3:P:1266:ILE:HD12	3:P:1278:GLU:HB3	1.28	1.08
2:O:178:PRO:HG3	2:O:395:TYR:OH	1.52	1.08
2:O:589:THR:HG22	2:O:590:PRO:HD2	1.32	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:295:CYS:O	5:R:296:LYS:HB2	1.54	1.08
3:D:644:MET:O	3:D:764:ARG:NH1	1.85	1.08
1:M:180:VAL:HA	1:M:207:THR:HG22	1.35	1.08
1:M:41:ASN:O	1:M:45:ARG:HG3	1.53	1.08
3:P:502:PRO:HG2	3:P:601:ILE:HG21	1.29	1.08
2:C:353:VAL:O	2:C:355:PRO:HD3	1.51	1.08
1:H:31:LEU:HD11	1:H:39:LEU:HD12	1.29	1.08
3:P:268:LEU:HD21	3:P:324:LEU:HD13	1.25	1.08
2:C:524:ILE:HD11	2:C:712:SER:HB3	1.30	1.08
3:D:501:VAL:HG12	3:D:502:PRO:HD2	1.11	1.08
3:D:646:ILE:CD1	3:D:764:ARG:HD3	1.83	1.08
3:P:1101:LEU:CD2	3:P:1122:ALA:HB3	1.84	1.08
2:I:890:LYS:HG2	2:I:891:GLY:H	1.04	1.08
3:D:1163:VAL:HG11	3:D:1175:LEU:HD21	1.31	1.07
5:F:583:THR:CG2	5:F:586:ARG:HB3	1.84	1.07
5:L:401:PHE:O	5:L:405:ILE:HG13	1.52	1.07
2:O:92:TYR:HB2	2:O:137:VAL:HG21	1.34	1.07
1:G:228:LEU:HD21	1:H:224:LEU:CD2	1.84	1.07
3:J:115:TRP:CZ2	3:J:1329:THR:HG22	1.88	1.07
3:J:1145:PHE:HE1	3:J:1256:ILE:HD12	1.11	1.07
3:D:282:LEU:HD22	3:D:287:ALA:HB2	1.25	1.07
1:M:184:ALA:HB2	2:O:1091:GLY:HA3	1.36	1.07
1:A:180:VAL:HA	1:A:207:THR:HG22	1.29	1.07
3:P:398:LYS:HZ1	5:R:532:LEU:HG	1.10	1.06
1:G:229:GLU:O	1:G:233:ASP:HB2	1.55	1.06
6:1:47:DC:H6	6:1:47:DC:H5 [?]	1.13	1.06
1:H:31:LEU:CD1	1:H:39:LEU:HD12	1.86	1.06
3:D:261:ALA:HA	5:F:505:ILE:O	1.52	1.06
3:D:501:VAL:HG13	3:D:502:PRO:HD2	1.11	1.06
1:G:228:LEU:HD21	1:H:224:LEU:HD21	1.38	1.06
3:J:349:TYR:O	3:J:470:VAL:CG2	2.03	1.06
2:I:839:VAL:O	2:I:886:LYS:HE2	1.52	1.05
1:M:30:PRO:HB2	1:M:198:LEU:HD22	1.34	1.05
2:O:1278:LEU:CD2	2:O:1283:ALA:HB3	1.86	1.05
2:O:599:VAL:HG21	2:O:623:LEU:CD2	1.85	1.05
3:D:1357:ILE:H	3:D:1357:ILE:HD12	1.14	1.05
2:O:1282:GLY:HA3	4:Q:17:PHE:HE1	1.11	1.05
2:I:661:VAL:HG11	2:I:665:ALA:HB3	1.35	1.05
2:I:170:VAL:HG23	3:J:1065:ALA:O	1.56	1.05
5:L:457:ILE:HA	5:L:460:ILE:HD12	1.36	1.05
5:R:457:ILE:HA	5:R:460:ILE:HD12	1.33	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:897:PRO:HB2	5:R:565:ILE:HG12	1.36	1.04
3:J:136:GLU:O	3:J:140:TYR:HD2	1.40	1.04
3:J:363:LEU:CD2	3:J:618:VAL:HG13	1.86	1.04
5:F:583:THR:HG23	5:F:586:ARG:HB3	1.35	1.04
3:P:130:MET:HG2	3:P:135:ILE:CG1	1.87	1.04
1:B:47:LEU:HD13	1:B:183:ILE:CD1	1.87	1.04
3:D:139:LEU:CD2	3:D:185:ILE:HD12	1.88	1.04
3:P:1289:ASN:O	3:P:1293:GLU:HG3	1.58	1.04
1:B:100:LEU:HD13	1:B:115:ILE:HG21	1.37	1.03
2:O:92:TYR:HB2	2:O:137:VAL:CG2	1.86	1.03
3:P:373:ALA:CA	3:P:376:LEU:HD12	1.88	1.03
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.36	1.03
2:C:1086:PRO:O	2:C:1094:VAL:HG23	1.57	1.03
2:I:1042:LEU:HD13	2:I:1049:ILE:HD11	1.36	1.03
3:P:130:MET:HG2	3:P:135:ILE:HG12	1.32	1.03
3:D:139:LEU:CD2	3:D:185:ILE:HD11	1.80	1.03
3:J:421:VAL:HG13	3:J:469:HIS:O	1.55	1.03
3:J:644:MET:O	3:J:764:ARG:NH1	1.92	1.03
3:P:905:ARG:HD2	4:Q:16:ARG:HD2	1.38	1.03
2:I:673:HIS:ND1	3:J:763:PHE:O	1.90	1.03
2:O:75:LEU:CD2	2:O:127:ILE:CD1	2.36	1.03
2:I:448:LEU:HD21	2:I:553:THR:OG1	1.58	1.03
1:M:47:LEU:O	1:M:51:MET:HB2	1.58	1.03
3:P:233:LYS:HE2	3:P:236:TRP:HE1	0.92	1.03
1:A:129:VAL:HG11	1:A:132:HIS:CE1	1.94	1.03
2:I:211:ARG:HD3	2:I:357:ASN:O	1.59	1.03
5:L:84:LEU:HD11	5:L:107:THR:HG21	1.39	1.03
1:A:45:ARG:HH12	2:C:1216:ARG:HA	1.16	1.02
2:C:205:PRO:O	2:C:208:ILE:HG22	1.58	1.02
3:D:668:PHE:HA	3:D:673:VAL:HG21	1.37	1.02
1:M:48:LEU:HD21	1:M:183:ILE:HG22	1.37	1.02
2:O:96:LEU:HB2	2:O:127:ILE:HD11	1.40	1.02
3:D:1357:ILE:H	3:D:1357:ILE:CD1	1.68	1.02
3:D:320:ASN:O	3:D:321:LYS:HB2	1.57	1.02
2:O:599:VAL:HG21	2:O:623:LEU:HD21	1.39	1.02
2:O:1305:TYR:HA	2:O:1308:ILE:HD12	1.39	1.02
2:I:806:PRO:HG2	3:J:632:ALA:O	1.58	1.02
3:P:506:VAL:O	3:P:510:LEU:HG	1.57	1.02
5:R:585:GLU:OE2	5:R:588:ARG:HG2	1.58	1.02
2:I:504:GLU:HA	2:I:504:GLU:OE2	1.52	1.02
3:J:1163:VAL:HG22	3:J:1177:ILE:HG23	1.35	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ASN:HD21	2:C:1218:GLY:HA3	1.22	1.02
3:J:972:LYS:HB3	3:J:1002:VAL:HG13	1.38	1.02
2:C:345:PRO:O	2:C:349:GLU:HG2	1.58	1.02
3:D:963:VAL:HG23	3:D:977:SER:OG	1.60	1.02
1:G:43:LEU:O	1:G:47:LEU:HG	1.58	1.02
3:P:1140:ARG:O	3:P:1144:LEU:HG	1.60	1.01
3:J:734:ALA:HA	3:J:737:ILE:HD12	1.05	1.01
2:C:661:VAL:HG12	2:C:665:ALA:HB3	1.41	1.01
3:D:1101:LEU:HD22	3:D:1122:ALA:HB3	1.42	1.01
2:I:708:VAL:HG11	2:I:794:LEU:HD22	1.37	1.01
2:O:205:PRO:O	2:O:208:ILE:HG22	1.60	1.01
3:P:795:TYR:CD1	7:8:12:DG:H5'	1.95	1.01
3:D:543:SER:O	3:D:574:VAL:HG21	1.61	1.01
3:J:1163:VAL:HG13	3:J:1176:VAL:O	1.60	1.01
3:J:368:LEU:HD12	3:J:369:PRO:HD2	1.37	1.01
2:C:859:GLU:HG2	2:C:862:LEU:HD12	1.40	1.01
3:D:139:LEU:HD23	3:D:185:ILE:CD1	1.85	1.01
5:F:135:ALA:HB2	5:F:256:PHE:CB	1.91	1.01
1:M:11:PRO:O	1:N:230:ALA:CB	2.08	1.01
5:L:452:ILE:CG2	5:L:457:ILE:CD1	2.39	1.00
2:O:1288:GLN:O	2:O:1292:THR:HG22	1.59	1.00
5:L:452:ILE:CG2	5:L:457:ILE:HD11	1.89	1.00
1:N:214:GLU:HA	1:N:217:ILE:HD12	1.40	1.00
2:O:225:PHE:HE2	2:O:347:ILE:HB	1.23	1.00
2:C:155:VAL:O	2:C:404:LYS:NZ	1.93	1.00
2:C:962:GLU:O	2:C:966:ILE:HG13	1.60	1.00
2:I:143:ARG:NH1	2:I:507:GLY:O	1.94	1.00
1:A:45:ARG:NH1	2:C:1216:ARG:HA	1.75	1.00
5:L:573:LEU:CB	7:5:46:DG:OP2	2.08	1.00
2:I:1235:LEU:HD23	2:I:1235:LEU:N	1.76	1.00
2:I:1288:GLN:O	2:I:1292:THR:HG22	1.59	1.00
2:I:1292:THR:HG23	2:I:1293:VAL:H	1.25	1.00
3:P:398:LYS:NZ	5:R:532:LEU:HG	1.76	1.00
2:C:1086:PRO:CB	2:C:1212:LEU:HD13	1.92	1.00
5:F:320:ILE:HG23	5:F:327:SER:HB3	1.40	1.00
1:M:75:GLN:HE22	2:O:727:VAL:HB	1.26	1.00
3:P:233:LYS:CE	3:P:236:TRP:HE1	1.73	1.00
3:P:544:LEU:CD2	3:P:578:ILE:HD11	1.91	1.00
3:J:1262:ARG:HD3	3:J:1316:THR:HG22	1.44	0.99
3:P:783:LEU:O	3:P:786:THR:HG22	1.62	0.99
1:B:100:LEU:HD13	1:B:115:ILE:CG2	1.91	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:423:LEU:HB2	3:P:466:MET:HE1	1.44	0.99
2:O:1109:ILE:HD11	3:P:740:LEU:HD22	1.44	0.99
3:D:139:LEU:HD21	3:D:185:ILE:CD1	1.88	0.99
3:J:826:ILE:HG12	3:J:831:VAL:HG13	1.42	0.98
5:R:591:GLU:O	5:R:595:LEU:HG	1.64	0.98
3:J:1328:THR:HG22	3:J:1332:LEU:HD11	1.41	0.98
3:P:449:LEU:HD12	3:P:450:HIS:N	1.78	0.98
3:D:749:LYS:HB3	3:D:750:PRO:HD2	1.01	0.98
3:P:795:TYR:CE1	7:8:12:DG:H5'	1.99	0.98
5:R:120:ALA:HA	5:R:123:ILE:HD12	1.44	0.98
2:O:1269:ARG:N	7:8:16:DC:OP1	1.95	0.98
6:7:44:DG:H2''	6:7:45:DT:O4'	1.64	0.98
3:D:747:MET:CE	3:D:775:SER:HA	1.93	0.98
3:D:749:LYS:CB	3:D:750:PRO:HD2	1.92	0.98
5:R:102:MET:HE3	6:7:42:DG:H21	1.27	0.98
3:D:770:LEU:O	3:D:774:ILE:HG13	1.64	0.98
3:J:608:CYS:SG	3:J:617:THR:HG22	2.03	0.98
3:P:121:PRO:HB2	3:P:126:LEU:HD11	1.43	0.98
3:P:826:ILE:HG12	3:P:831:VAL:HG22	1.42	0.98
2:I:661:VAL:HG11	2:I:665:ALA:CB	1.92	0.98
1:B:35:PHE:O	1:B:39:LEU:HG	1.62	0.98
2:C:528:ARG:HD2	2:C:663:VAL:HG21	1.46	0.98
3:J:1289:ASN:O	3:J:1293:GLU:HG3	1.64	0.98
5:L:496:LYS:O	5:L:500:ILE:HG13	1.61	0.98
1:M:28:LEU:HD11	1:N:231:PHE:CE1	1.99	0.97
5:R:84:LEU:HG	5:R:107:THR:HG21	1.41	0.97
3:J:1101:LEU:HD22	3:J:1122:ALA:HB3	1.43	0.97
3:J:601:ILE:HG22	3:J:602:SER:N	1.76	0.97
3:J:1226:VAL:O	3:J:1229:VAL:CG1	2.11	0.97
3:J:709:ARG:O	3:J:709:ARG:HG3	1.64	0.97
3:D:1357:ILE:HD12	3:D:1357:ILE:N	1.75	0.97
3:D:251:PRO:O	5:F:507:MET:CE	2.11	0.97
5:L:583:THR:HG23	5:L:586:ARG:HB3	1.46	0.97
1:M:232:VAL:CG1	1:N:218:ARG:HA	1.95	0.97
3:D:502:PRO:HG2	3:D:601:ILE:HG21	1.44	0.97
3:J:797:THR:HG23	3:J:924:GLY:HA3	1.47	0.97
5:R:457:ILE:HA	5:R:460:ILE:CD1	1.95	0.97
1:G:58:GLU:HB2	1:G:145:LYS:HB3	1.45	0.97
1:M:232:VAL:HG13	1:N:218:ARG:HA	1.47	0.97
2:O:1294:LYS:HD3	3:P:347:VAL:HG11	1.43	0.97
3:P:501:VAL:CG1	3:P:502:PRO:HD2	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:393:LYS:O	5:F:396:ASN:ND2	1.97	0.97
1:H:68:TYR:CE1	1:H:79:LEU:HD21	1.98	0.97
3:P:268:LEU:CD2	3:P:324:LEU:HD13	1.95	0.97
2:I:227:LYS:NZ	2:I:334:GLU:OE1	1.97	0.96
1:G:44:ARG:CA	1:G:47:LEU:HD12	1.94	0.96
1:H:31:LEU:HD11	1:H:39:LEU:CD1	1.94	0.96
1:G:47:LEU:HD13	1:G:183:ILE:HD12	1.44	0.96
3:J:1146:GLU:OE1	3:J:1309:ILE:HB	1.64	0.96
7:2:36:DG:H2"	7:2:37:DA:OP2	1.59	0.96
1:A:129:VAL:HG11	1:A:132:HIS:HE1	1.29	0.96
1:B:86:LYS:HE2	1:B:173:VAL:HG12	1.47	0.96
2:C:211:ARG:HD3	2:C:357:ASN:O	1.66	0.96
5:F:511:ILE:HG21	5:F:519:LEU:HD13	1.46	0.96
2:I:690:VAL:CG1	2:I:691:PRO:HD2	1.95	0.96
3:D:1327:GLU:O	3:D:1331:VAL:HG23	1.66	0.95
5:F:388:ILE:HG12	5:F:392:LYS:HE3	1.48	0.95
3:J:1101:LEU:HD22	3:J:1122:ALA:CB	1.96	0.95
1:A:54:CYS:HB2	1:A:90:VAL:HG23	1.47	0.95
3:D:318:GLY:N	3:D:322:ARG:O	1.99	0.95
1:N:100:LEU:HD13	1:N:115:ILE:HG21	1.47	0.95
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.47	0.95
2:I:854:ILE:CG2	2:I:857:VAL:HG21	1.94	0.95
3:J:135:ILE:O	3:J:139:LEU:CG	2.15	0.95
3:P:797:THR:HG23	3:P:924:GLY:HA3	1.47	0.95
2:C:389:PHE:HB3	2:C:420:LEU:HD12	1.46	0.95
2:I:167:SER:O	3:J:1064:SER:HB2	1.66	0.95
3:J:797:THR:CG2	3:J:924:GLY:HA3	1.95	0.95
2:I:560:PRO:HB2	3:J:776:THR:HG21	1.46	0.95
3:J:840:LEU:HD13	3:J:869:CYS:SG	2.05	0.95
3:J:1252:HIS:O	3:J:1255:VAL:HB	1.67	0.95
3:D:1353:VAL:HG21	3:D:1355:ARG:HD2	1.48	0.95
2:I:91:THR:HG23	2:I:138:ILE:HA	1.47	0.95
3:J:349:TYR:CD2	3:J:472:LEU:HD11	2.00	0.95
3:J:600:ALA:O	3:J:604:MET:HG3	1.67	0.95
5:L:476:ARG:HG3	5:L:477:GLU:N	1.82	0.95
2:O:178:PRO:HG3	2:O:395:TYR:CZ	2.01	0.94
2:O:524:ILE:HD11	2:O:712:SER:HB3	1.46	0.94
3:J:868:TRP:O	3:J:872:LEU:HG	1.66	0.94
5:L:84:LEU:CD1	5:L:107:THR:HG21	1.97	0.94
3:P:620:PHE:O	3:P:624:ILE:HG13	1.67	0.94
3:J:408:VAL:HA	3:J:411:ILE:HD12	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:700:VAL:HG13	2:C:1117:LEU:HD23	1.49	0.94
2:O:1290:MET:SD	2:O:1294:LYS:HD2	2.08	0.94
2:I:690:VAL:HG13	2:I:691:PRO:HD2	1.49	0.94
5:L:355:ILE:HG22	5:L:359:LYS:HE3	1.48	0.94
2:C:1086:PRO:HB3	2:C:1212:LEU:HD13	1.48	0.94
2:C:539:THR:CG2	2:C:540:ARG:H	1.81	0.94
2:I:1289:GLU:O	2:I:1294:LYS:HG3	1.66	0.94
2:O:1281:TYR:OH	3:P:431:ARG:O	1.84	0.94
3:P:703:THR:HG21	3:P:715:LYS:NZ	1.83	0.94
3:P:1266:ILE:CD1	3:P:1278:GLU:HB3	1.97	0.94
3:D:740:LEU:N	3:D:740:LEU:HD23	1.82	0.94
3:D:749:LYS:HD2	3:D:753:SER:HB2	1.49	0.94
3:J:242:LEU:HD12	3:J:243:PRO:CD	1.97	0.94
2:O:1309:VAL:HG13	3:P:383:GLY:HA2	1.48	0.94
3:P:501:VAL:HG13	3:P:502:PRO:HD2	1.49	0.94
5:R:265:GLN:O	5:R:269:LEU:HG	1.67	0.94
1:B:190:ALA:HB2	1:B:199:ASP:C	1.88	0.94
3:J:1333:THR:O	3:J:1337:VAL:HG23	1.68	0.94
3:J:1226:VAL:O	3:J:1229:VAL:HG12	1.67	0.94
2:O:228:VAL:HG22	2:O:245:ARG:HH12	1.30	0.94
1:A:48:LEU:CD1	1:A:183:ILE:CG2	2.46	0.93
3:D:609:TYR:HA	3:D:617:THR:HG21	1.51	0.93
3:J:700:ASN:O	3:J:704:GLU:HB2	1.67	0.93
3:J:967:VAL:HG22	3:J:973:LEU:CD1	1.98	0.93
1:B:158:ARG:NH2	1:B:175:ALA:HB2	1.83	0.93
2:C:539:THR:HG22	2:C:540:ARG:N	1.80	0.93
3:P:885:VAL:HG12	3:P:894:VAL:HG11	1.50	0.93
1:A:42:ALA:HA	1:B:38:THR:HG23	1.48	0.93
2:I:205:PRO:O	2:I:208:ILE:HG22	1.69	0.93
3:J:645:VAL:CG2	3:J:701:LEU:HD13	1.98	0.93
2:O:428:VAL:HG12	2:O:429:MET:HG3	1.51	0.93
3:P:1146:GLU:HG2	3:P:1309:ILE:HD12	1.47	0.93
3:P:373:ALA:HA	3:P:376:LEU:HD12	0.94	0.93
3:D:373:ALA:HA	3:D:376:LEU:HD12	1.48	0.93
3:P:385:LEU:CD2	3:P:411:ILE:HD13	1.98	0.93
3:D:353:SER:HB2	3:D:372:MET:CE	1.99	0.93
3:J:1266:ILE:HD12	3:J:1274:PHE:CD1	2.04	0.93
3:J:814:CYS:HG	9:J:1502:ZN:ZN	0.80	0.93
3:J:645:VAL:HG22	3:J:701:LEU:HD13	1.49	0.93
2:O:164:THR:HG21	2:O:171:LEU:HD12	1.50	0.93
2:O:75:LEU:HD21	2:O:127:ILE:HD12	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:27:ALA:HA	4:Q:30:MET:SD	2.08	0.93
6:1:47:DC:C6	6:1:47:DC:H5''	2.04	0.93
1:B:156:SER:O	1:B:159:ILE:HG22	1.67	0.93
2:I:448:LEU:N	2:I:448:LEU:HD23	1.81	0.93
5:R:102:MET:CE	6:7:42:DG:H21	1.81	0.93
3:J:421:VAL:HG12	3:J:422:LEU:H	1.30	0.93
3:D:481:ARG:NH1	4:E:3:ARG:O	2.02	0.93
2:C:163:LYS:HD3	2:C:164:THR:HG22	1.51	0.92
3:J:421:VAL:CG1	3:J:469:HIS:O	2.16	0.92
3:P:139:LEU:HD21	3:P:185:ILE:HD12	1.51	0.92
2:C:46:GLN:O	2:C:46:GLN:HG3	1.66	0.92
2:I:1275:VAL:HG12	2:I:1279:GLU:OE2	1.68	0.92
2:I:960:LEU:HB3	2:I:1025:PHE:HE1	1.34	0.92
2:O:661:VAL:CG1	2:O:665:ALA:HB3	1.99	0.92
2:I:1278:LEU:CB	2:I:1287:LEU:HD22	1.99	0.92
2:I:1086:PRO:O	2:I:1094:VAL:HG23	1.68	0.92
3:P:349:TYR:CD2	3:P:472:LEU:HD11	2.05	0.92
3:P:431:ARG:NH1	3:P:493:PRO:HB3	1.85	0.92
5:R:166:VAL:HG12	5:R:168:PRO:HD3	1.50	0.92
1:A:13:LEU:HA	1:A:28:LEU:CD2	1.98	0.92
3:P:1274:PHE:O	3:P:1275:LEU:HB2	1.70	0.92
3:P:26:SER:HB3	3:P:29:MET:SD	2.08	0.92
5:R:583:THR:CG2	5:R:586:ARG:HB3	1.99	0.92
1:G:42:ALA:HA	1:H:38:THR:CG2	2.00	0.92
3:J:115:TRP:HE3	3:J:1333:THR:CG2	1.81	0.92
3:P:1101:LEU:HD22	3:P:1122:ALA:HB3	1.50	0.92
1:B:158:ARG:HH21	1:B:175:ALA:CB	1.82	0.92
2:O:885:GLY:HA2	2:O:917:SER:OG	1.70	0.92
5:R:454:VAL:HG23	5:R:455:HIS:N	1.84	0.92
2:C:1183:ALA:O	2:C:1185:PRO:HD3	1.69	0.92
2:O:118:LYS:NZ	2:O:485:ASP:O	2.03	0.92
3:P:372:MET:O	3:P:376:LEU:HG	1.70	0.92
5:F:518:HIS:O	5:F:520:GLY:N	2.03	0.92
3:J:432:LEU:HD12	3:J:499:ILE:HD13	1.51	0.92
3:J:1287:ILE:HG22	3:J:1288:ALA:N	1.84	0.91
2:O:211:ARG:HD3	2:O:357:ASN:O	1.70	0.91
5:L:583:THR:CG2	5:L:586:ARG:HB3	2.00	0.91
2:O:1105:SER:HA	3:P:736:GLN:HE21	1.34	0.91
2:C:178:PRO:HA	2:C:397:LEU:HD23	1.52	0.91
5:F:310:GLU:OE2	5:F:355:ILE:HG21	1.70	0.91
5:F:84:LEU:HG	5:F:107:THR:CG2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:196:VAL:HG23	2:I:206:ALA:HA	1.51	0.91
3:P:574:VAL:O	3:P:578:ILE:HG13	1.70	0.91
3:P:212:THR:HG22	3:P:215:LYS:NZ	1.83	0.91
6:4:53:DG:H2''	6:4:54:DA:OP2	1.70	0.91
3:J:115:TRP:CE3	3:J:1333:THR:HG23	2.06	0.91
2:I:1124:ILE:CD1	2:I:1198:LEU:HD11	2.00	0.91
1:M:81:ILE:HD13	1:M:131:CYS:HB2	1.50	0.91
5:L:407:GLU:HA	5:L:410:ILE:HD12	1.51	0.91
1:B:224:LEU:HD22	1:B:224:LEU:O	1.69	0.90
3:J:734:ALA:CA	3:J:737:ILE:HD12	1.98	0.90
2:C:1309:VAL:HG13	3:D:383:GLY:HA2	1.52	0.90
5:R:84:LEU:HG	5:R:107:THR:CG2	2.01	0.90
2:C:726:TYR:HB3	2:C:733:VAL:CG2	2.01	0.90
3:D:427:PRO:HG2	3:D:429:LEU:CD2	2.01	0.90
2:O:1241:ASP:O	2:O:1262:LYS:NZ	2.03	0.90
3:D:130:MET:HG3	3:D:134:ASP:OD2	1.70	0.90
3:P:621:ALA:HA	3:P:624:ILE:HD12	1.53	0.90
2:I:1200:LYS:HE3	2:I:1206:THR:HG21	1.52	0.90
1:M:47:LEU:CD1	1:M:183:ILE:CD1	2.49	0.90
2:O:205:PRO:HB2	2:O:207:THR:HG22	1.54	0.90
3:P:544:LEU:HD22	3:P:578:ILE:CD1	2.01	0.90
1:B:57:THR:HG23	1:B:158:ARG:NH2	1.87	0.90
3:J:432:LEU:CD1	3:J:499:ILE:HD13	2.02	0.90
2:O:202:ARG:NH2	7:8:7:DC:OP1	2.05	0.90
1:A:75:GLN:HE22	2:C:727:VAL:HG12	1.37	0.90
2:I:890:LYS:CG	2:I:891:GLY:H	1.85	0.90
3:J:518:VAL:HA	3:J:547:ARG:NH1	1.87	0.90
2:O:207:THR:OG1	2:O:351:LEU:HD21	1.70	0.90
1:A:166:ARG:HD2	1:A:170:ARG:HG2	1.54	0.90
2:O:425:ILE:O	2:O:428:VAL:HG12	1.71	0.90
3:P:749:LYS:HB3	3:P:750:PRO:HD2	1.54	0.90
1:G:42:ALA:HA	1:H:38:THR:HG21	1.53	0.90
3:J:421:VAL:HG12	3:J:422:LEU:N	1.84	0.90
5:L:295:CYS:O	5:L:296:LYS:HB2	1.69	0.90
2:O:277:LEU:HD11	2:O:282:VAL:HG21	1.53	0.90
2:O:666:SER:HA	2:O:1186:VAL:HG21	1.54	0.90
3:D:795:TYR:CD1	7:2:12:DG:H5'	2.07	0.89
2:C:213:LEU:O	2:C:214:ASN:CB	2.19	0.89
3:J:1162:ILE:HD12	3:J:1180:VAL:HG12	1.54	0.89
3:J:373:ALA:O	3:J:376:LEU:HB2	1.72	0.89
2:O:675:ASP:HB2	2:O:1107:MET:HE2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:708:VAL:HG11	2:O:794:LEU:HD22	1.51	0.89
3:D:646:ILE:HD11	3:D:764:ARG:HD3	1.50	0.89
2:I:805:MET:HE2	2:I:806:PRO:HD2	1.51	0.89
3:P:417:ARG:HG2	3:P:418:GLU:HG2	1.54	0.89
1:A:48:LEU:HD11	1:A:183:ILE:CG2	2.01	0.89
2:C:3:TYR:O	2:C:8:LYS:HE3	1.71	0.89
2:I:448:LEU:HD11	2:I:553:THR:C	1.92	0.89
3:J:136:GLU:O	3:J:140:TYR:CD2	2.26	0.89
2:I:425:ILE:O	2:I:429:MET:HG3	1.72	0.89
2:I:667:LEU:HD11	2:I:794:LEU:HD23	1.54	0.89
3:J:1259:GLN:OE1	3:J:1262:ARG:NH1	2.05	0.89
3:J:1284:ARG:O	3:J:1287:ILE:HB	1.72	0.89
2:O:1124:ILE:CD1	2:O:1198:LEU:HD11	2.02	0.89
3:P:1101:LEU:HD21	3:P:1122:ALA:HB3	1.53	0.89
3:P:115:TRP:CZ2	3:P:1329:THR:HG22	2.06	0.89
2:C:1314:GLN:HG3	4:E:28:ARG:NH2	1.87	0.89
2:I:813:GLU:HB2	3:J:461:PHE:HD2	1.35	0.89
3:P:1282:TYR:O	3:P:1285:VAL:HG12	1.72	0.89
5:F:502:LYS:HE3	5:F:503:GLU:O	1.72	0.89
3:J:1269:ALA:HB2	3:J:1274:PHE:HB2	1.54	0.89
3:P:423:LEU:CB	3:P:466:MET:HE1	2.02	0.89
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.54	0.89
3:D:427:PRO:HG2	3:D:429:LEU:HD21	1.53	0.89
3:D:807:LEU:HD22	3:D:1255:VAL:HG13	1.54	0.89
1:G:47:LEU:CD1	1:G:183:ILE:CD1	2.50	0.89
2:C:657:THR:O	2:C:660:VAL:HG23	1.71	0.89
3:D:1163:VAL:HG11	3:D:1175:LEU:CD2	2.02	0.89
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.02	0.89
2:C:912:ASP:O	2:C:913:VAL:HG23	1.72	0.89
3:J:1164:SER:C	3:J:1175:LEU:HD11	1.92	0.89
3:J:1172:LYS:HD3	3:J:1189:MET:HE1	1.55	0.89
3:J:1323:ALA:CB	3:J:1332:LEU:HD21	2.02	0.89
3:P:1347:LEU:HD22	3:P:1357:ILE:HG23	1.54	0.89
1:B:158:ARG:HD3	1:B:172:LEU:HD11	1.53	0.88
3:D:749:LYS:CG	3:D:755:ILE:HG12	2.04	0.88
1:G:41:ASN:O	1:G:45:ARG:HG3	1.73	0.88
2:I:345:PRO:O	2:I:349:GLU:HG2	1.72	0.88
3:J:1163:VAL:HG21	3:J:1177:ILE:HG23	1.51	0.88
1:M:45:ARG:NE	1:N:38:THR:OG1	2.07	0.88
5:L:573:LEU:HD22	7:5:45:DT:H2'	1.53	0.88
3:J:464:ASP:OD1	8:6:15:G:O2'	1.90	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1104:PRO:HG3	3:D:725:MET:HE3	1.52	0.88
2:I:953:LEU:HD13	2:I:954:LYS:NZ	1.87	0.88
2:O:661:VAL:HG13	2:O:665:ALA:HB3	1.54	0.88
2:I:255:ILE:HG12	2:I:285:ILE:HG21	1.54	0.88
1:M:85:LEU:HD13	1:M:144:ILE:HD13	1.55	0.88
3:P:521:LYS:HD2	3:P:543:SER:CB	2.02	0.88
3:P:824:PRO:HD3	3:P:878:ASP:O	1.73	0.88
3:J:1344:LEU:HA	3:J:1349:GLU:OE1	1.72	0.88
2:O:870:ILE:HG21	2:O:944:ARG:HE	1.37	0.88
2:C:661:VAL:CG1	2:C:665:ALA:HB3	2.02	0.88
2:C:698:PRO:HA	2:C:1231:TYR:CE1	2.07	0.88
3:D:115:TRP:CZ2	3:D:1329:THR:HG22	2.09	0.88
3:D:747:MET:HE1	3:D:775:SER:CA	2.03	0.88
2:I:798:GLN:HB2	2:I:828:PHE:CZ	2.09	0.88
3:P:502:PRO:HG2	3:P:601:ILE:CG2	2.04	0.88
3:J:909:ILE:HG12	3:J:910:ASN:N	1.88	0.88
5:F:84:LEU:CG	5:F:107:THR:HG21	2.04	0.88
2:O:897:PRO:HG2	2:O:898:GLU:OE1	1.73	0.88
2:C:870:ILE:HG13	2:C:944:ARG:HG2	1.56	0.88
3:D:1146:GLU:HG2	3:D:1309:ILE:HD12	1.55	0.88
2:I:1268:GLN:NE2	3:J:351:GLY:O	2.06	0.88
3:J:53:ARG:O	3:J:58:CYS:HB2	1.74	0.88
2:O:153:PRO:HA	2:O:177:ILE:HG22	1.56	0.88
1:A:15:ASP:HB3	1:A:27:THR:OG1	1.73	0.88
3:D:972:LYS:HB3	3:D:1002:VAL:HG13	1.56	0.88
3:D:1230:THR:HA	3:D:1233:ILE:HD12	1.54	0.88
3:J:192:MET:HE1	3:J:197:GLU:OE1	1.74	0.88
2:O:228:VAL:HG22	2:O:245:ARG:NH1	1.88	0.88
2:O:539:THR:HG22	2:O:540:ARG:H	1.39	0.88
3:D:107:LEU:HD21	3:D:242:LEU:HB2	1.53	0.87
2:I:577:VAL:HG23	2:I:661:VAL:O	1.74	0.87
3:J:115:TRP:CH2	3:J:1329:THR:HA	2.08	0.87
3:J:823:THR:HB	3:J:824:PRO:CD	2.03	0.87
3:P:117:LEU:CD1	3:P:124:ILE:HD12	2.04	0.87
3:P:458:ASN:ND2	8:9:16:U:O3'	2.07	0.87
2:O:897:PRO:HB2	5:R:565:ILE:CG1	2.04	0.87
3:P:482:ALA:O	3:P:488:ASN:ND2	2.08	0.87
4:Q:5:THR:HG22	4:Q:7:GLN:H	1.39	0.87
2:I:1278:LEU:HB3	2:I:1287:LEU:HD22	1.56	0.87
3:J:382:TYR:HA	3:J:385:LEU:HD12	1.57	0.87
2:O:1124:ILE:HD11	2:O:1198:LEU:HD11	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:569:ILE:HD13	3:P:784:ALA:CB	2.04	0.87
1:A:9:LEU:HD21	1:A:198:LEU:HD13	1.57	0.87
5:F:392:LYS:HA	5:F:395:THR:HG23	1.57	0.87
3:J:869:CYS:HA	3:J:872:LEU:HD12	1.56	0.87
1:M:47:LEU:CD1	1:M:183:ILE:HD13	2.03	0.87
2:I:1100:PRO:HB3	3:J:639:VAL:HG23	1.55	0.87
3:J:130:MET:SD	3:J:135:ILE:HG12	2.14	0.87
3:J:322:ARG:HB2	3:J:323:PRO:HD2	1.56	0.87
3:P:749:LYS:CB	3:P:750:PRO:HD2	2.04	0.87
5:R:456:MET:O	5:R:460:ILE:HG13	1.73	0.87
1:B:61:ILE:HB	1:B:64:VAL:HB	1.55	0.87
1:M:59:VAL:HG22	1:M:144:ILE:HG23	1.55	0.87
3:P:1266:ILE:HD12	3:P:1278:GLU:HB2	1.53	0.87
3:D:1163:VAL:HG22	3:D:1177:ILE:HG23	1.54	0.87
5:F:458:GLU:HA	5:F:461:ASN:ND2	1.89	0.87
3:J:1167:LYS:HE3	3:J:1187:GLU:OE1	1.73	0.87
2:O:878:THR:CG2	2:O:879:GLY:N	2.37	0.87
1:A:109:PRO:HB3	1:A:132:HIS:CD2	2.09	0.87
1:A:100:LEU:CD1	1:A:115:ILE:HG21	2.05	0.87
3:D:1282:TYR:O	3:D:1285:VAL:HG12	1.75	0.87
3:D:502:PRO:HG2	3:D:601:ILE:HG23	1.54	0.87
2:I:1271:GLY:O	2:I:1275:VAL:HG23	1.74	0.87
2:I:448:LEU:HD11	2:I:553:THR:O	1.75	0.87
1:M:11:PRO:O	1:N:230:ALA:HB2	1.74	0.87
5:L:386:LEU:HA	6:4:41:DT:O4'	1.75	0.86
3:P:1177:ILE:HD12	3:P:1186:TYR:O	1.74	0.86
3:D:1101:LEU:CD2	3:D:1122:ALA:HB3	2.05	0.86
3:D:514:THR:HG21	3:D:596:LEU:HG	1.57	0.86
2:C:871:VAL:HG23	2:C:883:LEU:O	1.74	0.86
2:I:890:LYS:HG2	2:I:891:GLY:N	1.87	0.86
2:O:589:THR:CG2	2:O:590:PRO:HD2	2.05	0.86
5:L:429:THR:HG1	6:4:39:DA:H8	0.90	0.86
2:C:525:THR:HG21	2:C:687:ARG:HD3	1.55	0.86
2:O:667:LEU:HD22	2:O:705:GLU:OE2	1.76	0.86
2:C:372:PRO:O	5:F:94:THR:OG1	1.92	0.86
2:C:812:PHE:CE2	2:C:813:GLU:HG3	2.10	0.86
2:C:831:ILE:HD12	2:C:831:ILE:H	1.41	0.86
3:D:483:LEU:HD11	4:E:20:VAL:HG21	1.58	0.86
3:J:1233:ILE:O	3:J:1237:VAL:HG23	1.75	0.86
3:P:521:LYS:CD	3:P:543:SER:HB2	2.03	0.86
7:5:25:DA:H2''	7:5:26:DT:OP2	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1140:ARG:NH2	3:D:1236:GLU:OE2	2.08	0.86
3:D:288:PRO:O	3:D:292:VAL:HG23	1.76	0.86
2:I:122:VAL:HG11	2:I:493:ILE:HD12	1.58	0.86
2:I:60:GLN:O	2:I:476:LYS:NZ	2.07	0.86
3:J:519:ASN:HA	3:J:523:GLU:HB2	1.58	0.86
3:D:805:GLN:HB2	3:D:1347:LEU:HD12	1.57	0.86
3:D:501:VAL:HG13	3:D:502:PRO:CD	1.96	0.86
3:D:608:CYS:HG	3:D:617:THR:HG22	1.38	0.86
3:J:673:VAL:CG1	3:J:678:ARG:HB2	2.05	0.86
1:M:42:ALA:HA	1:N:38:THR:HG23	1.55	0.86
2:O:806:PRO:HG2	3:P:632:ALA:O	1.76	0.86
2:C:1257:GLN:HG2	2:C:1296:ASP:OD1	1.76	0.86
1:M:44:ARG:HG3	1:M:183:ILE:HG12	1.57	0.86
1:G:106:GLY:HA2	1:G:136:GLU:HA	1.57	0.86
3:J:527:LEU:HB2	3:J:550:VAL:HG22	1.55	0.86
2:O:1278:LEU:HD22	2:O:1283:ALA:HB3	1.56	0.86
3:P:930:LEU:HB2	3:P:1134:ILE:HD11	1.58	0.86
2:C:807:TRP:CD1	2:C:817:LEU:HD11	2.11	0.85
2:O:1086:PRO:O	2:O:1094:VAL:HG23	1.74	0.85
5:R:454:VAL:HG23	5:R:455:HIS:H	1.37	0.85
2:I:719:LYS:O	2:I:779:ARG:NH1	2.09	0.85
3:J:823:THR:HB	3:J:824:PRO:HD2	1.58	0.85
5:L:452:ILE:CB	5:L:457:ILE:HD11	2.05	0.85
3:P:1145:PHE:CB	3:P:1309:ILE:HD11	2.06	0.85
2:C:528:ARG:HD2	2:C:663:VAL:CG2	2.05	0.85
2:I:871:VAL:HG23	2:I:883:LEU:O	1.76	0.85
3:J:1162:ILE:CD1	3:J:1180:VAL:HG12	2.06	0.85
5:L:310:GLU:OE1	5:L:355:ILE:HG21	1.77	0.85
2:C:164:THR:O	2:C:165:HIS:HB2	1.75	0.85
2:I:1005:GLU:HG2	2:I:1006:GLU:H	1.40	0.85
2:O:178:PRO:HG3	2:O:395:TYR:HH	1.40	0.85
3:P:111:THR:HG23	3:P:112:ALA:H	1.41	0.85
5:R:96:ASP:HB3	5:R:99:ARG:HG2	1.57	0.85
1:B:92:VAL:HG22	1:B:121:VAL:HG22	1.58	0.85
3:D:416:ILE:HD12	3:D:441:LEU:HD11	1.57	0.85
1:N:37:HIS:NE2	1:N:187:VAL:HG21	1.91	0.85
2:O:478:ARG:NH2	2:O:492:MET:O	2.09	0.85
3:D:1179:PRO:HD2	3:D:1184:ASP:O	1.77	0.85
3:D:353:SER:CB	3:D:372:MET:HE1	2.04	0.85
3:D:771:GLN:HA	3:D:774:ILE:CD1	2.07	0.85
2:C:1311:GLY:O	4:E:31:GLN:HG3	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:530:LEU:H	5:F:530:LEU:HD12	1.40	0.85
5:L:452:ILE:HG22	5:L:457:ILE:HD11	1.56	0.85
2:O:70:TYR:HA	2:O:100:LEU:HD23	1.56	0.85
3:P:974:VAL:HG11	3:P:1028:ILE:HG21	1.57	0.85
3:J:363:LEU:HD23	3:J:618:VAL:CG1	2.07	0.85
2:I:813:GLU:O	3:J:461:PHE:HB2	1.76	0.85
1:B:57:THR:HG23	1:B:158:ARG:HH22	1.41	0.85
2:C:816:ILE:HG22	2:C:818:VAL:HG13	1.58	0.85
3:D:664:ILE:HG12	3:D:681:LYS:NZ	1.91	0.85
2:I:1275:VAL:O	2:I:1279:GLU:HG3	1.77	0.85
3:J:519:ASN:HB3	3:J:523:GLU:OE1	1.77	0.85
5:L:452:ILE:HG22	5:L:457:ILE:CD1	2.07	0.85
2:C:149:LEU:HD21	2:C:451:ARG:HE	1.39	0.85
5:L:452:ILE:HG21	5:L:457:ILE:HD13	1.58	0.85
2:C:859:GLU:CG	2:C:862:LEU:HD12	2.07	0.85
1:G:28:LEU:HD11	1:H:231:PHE:CE1	2.10	0.85
2:I:854:ILE:HG22	2:I:857:VAL:HG21	1.59	0.85
3:J:43:THR:HG21	5:L:449:THR:HG22	1.56	0.85
5:L:451:ARG:CZ	6:4:32:DA:OP1	2.25	0.85
2:O:120:GLN:HG2	2:O:489:PRO:HG2	1.59	0.85
3:P:131:PRO:O	3:P:135:ILE:HG13	1.76	0.85
3:P:139:LEU:HD21	3:P:185:ILE:CD1	2.07	0.85
3:P:385:LEU:HD23	3:P:411:ILE:HD13	1.56	0.85
3:P:475:GLU:O	3:P:479:GLU:HG2	1.75	0.85
3:P:975:ILE:HD13	3:P:980:THR:HG21	1.59	0.85
2:O:204:LEU:HB3	2:O:205:PRO:CD	2.06	0.84
3:P:1075:ARG:HG3	3:P:1192:LYS:HD3	1.59	0.84
3:P:759:ILE:HD11	3:P:771:GLN:HB3	1.58	0.84
5:R:520:GLY:HA2	5:R:523:ILE:CD1	2.07	0.84
3:D:398:LYS:HD3	5:F:532:LEU:HG	1.59	0.84
5:L:452:ILE:HB	5:L:457:ILE:HD11	1.58	0.84
5:L:507:MET:O	5:L:519:LEU:HB3	1.76	0.84
3:D:251:PRO:O	5:F:507:MET:HE3	1.76	0.84
5:L:453:PRO:O	5:L:457:ILE:HG12	1.76	0.84
2:C:263:VAL:HG22	2:C:269:ILE:HD11	1.60	0.84
3:J:1309:ILE:HG22	3:J:1310:THR:N	1.92	0.84
3:J:868:TRP:O	3:J:872:LEU:CG	2.25	0.84
3:D:450:HIS:CD2	3:D:452:LEU:HB2	2.13	0.84
3:J:829:GLY:HA2	3:J:994:SER:O	1.77	0.84
5:L:585:GLU:HG3	7:5:48:DC:N4	1.92	0.84
2:O:520:PRO:O	2:O:524:ILE:HG13	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:838:CYS:SG	2:O:886:LYS:CE	2.65	0.84
1:B:217:ILE:HG22	1:B:218:ARG:N	1.91	0.84
3:D:797:THR:HG23	3:D:924:GLY:HA3	1.58	0.84
5:F:381:GLU:O	5:F:384:LEU:HG	1.77	0.84
5:F:573:LEU:HB2	7:2:46:DG:OP2	1.77	0.84
3:P:130:MET:CG	3:P:135:ILE:HG12	2.07	0.84
1:A:9:LEU:HD21	1:A:198:LEU:CD1	2.07	0.84
3:D:512:TYR:CE2	3:D:635:SER:HB2	2.13	0.84
2:C:1225:VAL:CG2	3:D:638:SER:HB3	2.07	0.84
3:P:320:ASN:O	3:P:321:LYS:CB	2.26	0.84
3:D:703:THR:O	3:D:718:SER:HB3	1.78	0.84
3:D:797:THR:CG2	3:D:924:GLY:HA3	2.07	0.84
1:G:228:LEU:HD11	1:H:224:LEU:HD11	1.60	0.84
1:M:38:THR:HG23	1:N:42:ALA:HA	1.59	0.84
3:D:210:SER:HB3	3:D:213:LYS:HD2	1.57	0.84
3:P:930:LEU:HD11	3:P:1246:VAL:CG2	2.07	0.84
2:O:1100:PRO:HB3	3:P:639:VAL:HG23	1.58	0.83
2:O:21:VAL:HG11	2:O:592:ARG:HD3	1.58	0.83
3:P:1145:PHE:O	3:P:1309:ILE:HG13	1.77	0.83
5:F:520:GLY:HA2	5:F:523:ILE:HD11	1.61	0.83
1:G:232:VAL:HG22	1:H:221:ALA:HB1	1.59	0.83
2:I:1269:ARG:NH1	3:J:340:GLN:HA	1.93	0.83
2:O:1064:ASP:OD1	2:O:1238:LEU:HD22	1.78	0.83
3:P:518:VAL:HG21	3:P:707:ILE:HD12	1.59	0.83
3:J:918:ILE:CG2	3:J:919:ALA:N	2.39	0.83
2:C:974:ARG:O	2:C:978:VAL:HG23	1.78	0.83
3:D:1081:VAL:HB	3:D:1085:GLY:O	1.78	0.83
3:D:268:LEU:HB3	3:D:306:LEU:HD13	1.60	0.83
3:J:746:LEU:CG	3:J:758:PRO:HB3	2.08	0.83
2:O:164:THR:CG2	2:O:171:LEU:HD12	2.08	0.83
3:P:97:VAL:HG12	3:P:101:ARG:HG3	1.61	0.83
5:L:102:MET:HE1	6:4:43:DT:H1'	1.59	0.83
6:4:44:DG:H2''	6:4:45:DT:O4'	1.77	0.83
2:I:953:LEU:HD13	2:I:954:LYS:HZ2	1.42	0.83
3:J:609:TYR:HA	3:J:617:THR:HG21	1.59	0.83
3:J:918:ILE:HG22	3:J:919:ALA:N	1.93	0.83
5:R:87:VAL:HG11	5:R:103:ARG:HD3	1.60	0.83
2:C:1030:GLU:OE1	2:C:1030:GLU:HA	1.76	0.83
2:I:431:LYS:O	2:I:435:ILE:HG13	1.77	0.83
3:J:1226:VAL:O	3:J:1230:THR:OG1	1.95	0.83
5:L:386:LEU:HB2	6:4:41:DT:C2	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:8:5:DC:H2''	7:8:6:DG:H5'	1.60	0.83
2:C:1077:SER:HA	3:D:356:THR:CG2	2.08	0.83
2:I:813:GLU:HB2	3:J:461:PHE:CD2	2.12	0.83
3:J:828:GLY:HA2	3:J:996:LYS:HG2	1.61	0.83
1:A:48:LEU:CD1	1:A:183:ILE:HG23	2.08	0.83
2:C:1117:LEU:HD21	2:C:1182:ILE:CD1	2.08	0.83
2:C:1117:LEU:HD21	2:C:1182:ILE:HD13	1.61	0.83
5:F:401:PHE:O	5:F:405:ILE:HG13	1.79	0.83
1:G:28:LEU:HD11	1:H:231:PHE:CZ	2.14	0.83
3:J:736:GLN:HA	3:J:736:GLN:HE21	1.42	0.83
5:L:244:THR:HG22	5:L:248:GLU:OE2	1.78	0.83
5:L:518:HIS:O	5:L:520:GLY:N	2.12	0.83
3:P:1158:GLU:O	3:P:1223:LEU:HD21	1.79	0.83
5:F:395:THR:HA	5:F:404:LEU:CD1	2.09	0.83
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.58	0.83
2:I:1061:GLN:HB2	2:I:1062:PRO:CD	2.09	0.83
2:O:1309:VAL:HG13	3:P:383:GLY:CA	2.08	0.83
2:O:277:LEU:CD1	2:O:282:VAL:HG21	2.09	0.83
5:F:137:TYR:CE1	5:F:353:LEU:HD11	2.13	0.83
2:I:873:ILE:HG13	2:I:944:ARG:HH22	1.43	0.83
3:J:363:LEU:HD21	3:J:618:VAL:HG13	1.58	0.83
3:J:817:HIS:O	3:J:845:ALA:HB1	1.78	0.83
2:O:225:PHE:CE2	2:O:347:ILE:HB	2.12	0.83
3:P:146:VAL:CG2	3:P:154:LEU:HD13	2.09	0.83
7:5:51:DG:O3'	7:5:52:DT:P	2.37	0.82
1:M:81:ILE:CD1	1:M:131:CYS:HB2	2.09	0.82
2:O:255:ILE:HD12	2:O:263:VAL:HG11	1.61	0.82
2:C:1269:ARG:HA	3:D:346:ARG:HA	1.59	0.82
3:J:964:LYS:HD2	3:J:977:SER:CB	2.09	0.82
1:A:13:LEU:HA	1:A:28:LEU:HD21	1.61	0.82
3:J:115:TRP:CE3	3:J:1333:THR:CG2	2.61	0.82
3:P:26:SER:CB	3:P:29:MET:SD	2.67	0.82
1:A:44:ARG:HA	1:A:183:ILE:HD11	1.60	0.82
1:A:45:ARG:NH1	2:C:1215:GLY:O	2.12	0.82
2:I:1042:LEU:HD13	2:I:1049:ILE:HD12	1.61	0.82
3:P:1226:VAL:O	3:P:1230:THR:OG1	1.97	0.82
3:P:799:ARG:O	3:P:803:VAL:HG23	1.79	0.82
3:D:601:ILE:HG22	3:D:602:SER:N	1.94	0.82
3:D:824:PRO:HG3	3:D:835:LEU:HB2	1.60	0.82
3:J:580:TRP:CZ3	3:J:583:VAL:HG11	2.14	0.82
2:C:1109:ILE:HG21	3:D:644:MET:CE	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:483:ASP:O	2:C:487:LEU:HG	1.79	0.82
2:I:363:LEU:HD21	2:I:385:PHE:CB	2.08	0.82
3:J:1011:VAL:HG11	3:J:1017:VAL:CG1	2.10	0.82
2:O:178:PRO:HA	2:O:397:LEU:HD23	1.62	0.82
3:P:1145:PHE:HB3	3:P:1309:ILE:HD11	1.59	0.82
1:B:59:VAL:HG22	1:B:144:ILE:HG23	1.59	0.82
2:C:75:LEU:HD21	2:C:94:ALA:HB3	1.62	0.82
3:D:790:THR:HG22	3:D:931:THR:HB	1.62	0.82
5:F:166:VAL:HG12	5:F:168:PRO:HD3	1.61	0.82
3:J:373:ALA:HA	3:J:376:LEU:CD1	2.09	0.82
3:J:848:VAL:HG21	3:J:880:VAL:HG13	1.59	0.82
3:J:918:ILE:O	3:J:922:SER:OG	1.95	0.82
3:J:931:THR:O	3:J:935:PHE:CD2	2.32	0.82
2:O:569:ILE:CD1	3:P:784:ALA:HB2	2.10	0.82
2:C:1305:TYR:HA	2:C:1308:ILE:HD12	1.61	0.82
2:C:206:ALA:O	2:C:209:ILE:CG2	2.24	0.82
2:C:706:ARG:O	2:C:710:VAL:HG23	1.79	0.82
5:F:511:ILE:HD13	5:F:519:LEU:HA	1.62	0.82
2:O:292:ILE:HG21	2:O:322:LEU:HD11	1.60	0.82
3:D:645:VAL:HG22	3:D:701:LEU:HD13	0.85	0.82
2:I:363:LEU:HD21	2:I:385:PHE:HB3	1.62	0.82
3:J:373:ALA:HA	3:J:376:LEU:HD12	1.61	0.82
3:J:915:ILE:O	3:J:918:ILE:HG22	1.79	0.82
3:P:311:ARG:NH2	3:P:1329:THR:HG21	1.95	0.82
5:R:269:LEU:O	5:R:273:MET:CE	2.28	0.82
3:D:234:PRO:O	3:D:237:MET:HG2	1.80	0.82
3:J:664:ILE:HG21	3:J:681:LYS:HD3	1.61	0.82
2:O:496:LYS:HB3	2:O:497:PRO:HD3	1.61	0.82
1:B:219:ARG:O	1:B:223:ILE:HG13	1.80	0.81
2:C:251:ALA:HB2	2:C:263:VAL:HG11	1.63	0.81
2:C:557:ARG:HB3	2:C:587:LEU:HD13	1.60	0.81
3:D:105:ILE:HD12	3:D:242:LEU:HD23	1.60	0.81
2:O:1061:GLN:HB2	2:O:1062:PRO:HD2	1.59	0.81
3:D:1226:VAL:O	3:D:1230:THR:OG1	1.98	0.81
3:D:749:LYS:HG3	3:D:755:ILE:HG12	1.62	0.81
3:D:478:LEU:CD1	4:E:24:ALA:HB2	2.10	0.81
2:I:686:GLN:CD	2:I:1069:ARG:HG2	2.01	0.81
2:I:373:GLY:HA3	5:L:91:ILE:HG12	1.61	0.81
2:O:790:ASP:O	2:O:792:GLY:N	2.14	0.81
2:C:96:LEU:HB2	2:C:127:ILE:HD11	1.62	0.81
2:I:562:GLU:C	2:I:563:THR:HG22	2.00	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:75:LEU:HD21	2:I:127:ILE:HD12	1.60	0.81
5:L:530:LEU:HB3	5:L:532:LEU:HD13	1.62	0.81
3:P:997:VAL:HG11	3:P:1003:LEU:HD21	1.62	0.81
2:C:311:CYS:SG	2:C:325:LEU:HD21	2.20	0.81
2:C:402:ARG:NH1	2:C:424:ASP:OD2	2.13	0.81
2:C:912:ASP:O	2:C:913:VAL:CG2	2.28	0.81
3:P:908:ILE:H	3:P:908:ILE:CD1	1.93	0.81
2:C:702:THR:HG22	2:C:1184:THR:O	1.80	0.81
3:D:1046:ILE:HD12	3:D:1059:LEU:CD2	2.10	0.81
2:I:531:SER:OG	2:I:533:LEU:HG	1.79	0.81
2:O:681:MET:O	2:O:685:MET:HG2	1.79	0.81
2:I:1278:LEU:HD22	2:I:1283:ALA:HB3	1.61	0.81
3:J:247:PRO:HG3	3:J:250:ARG:NH2	1.95	0.81
5:L:452:ILE:CG2	5:L:457:ILE:HD13	2.11	0.81
3:D:1167:LYS:HB2	3:D:1174:ARG:HD2	1.61	0.81
3:D:665:GLN:O	3:D:668:PHE:HB3	1.80	0.81
2:I:886:LYS:H	2:I:917:SER:HG	1.26	0.81
3:J:1328:THR:HG22	3:J:1332:LEU:CD1	2.09	0.81
3:J:700:ASN:O	3:J:704:GLU:CB	2.27	0.81
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.61	0.81
5:R:262:VAL:HG13	5:R:263:PRO:HD2	1.63	0.81
1:A:41:ASN:ND2	2:C:1218:GLY:HA3	1.95	0.81
3:J:421:VAL:CG1	3:J:422:LEU:H	1.93	0.81
3:J:967:VAL:HG22	3:J:973:LEU:HD11	1.63	0.81
5:L:573:LEU:HB3	7:5:45:DT:H3'	1.62	0.81
2:O:921:PRO:HB2	2:O:924:VAL:HB	1.61	0.81
3:J:614:LEU:O	3:J:618:VAL:HG23	1.80	0.81
3:D:1163:VAL:CG1	3:D:1175:LEU:HD21	2.11	0.81
3:D:497:GLU:HB3	3:D:498:PRO:HD2	1.62	0.81
5:F:135:ALA:HB2	5:F:256:PHE:HB2	1.61	0.81
2:I:1268:GLN:HE22	3:J:351:GLY:C	1.84	0.81
3:D:134:ASP:N	3:D:134:ASP:OD1	2.10	0.80
2:I:1299:ASN:O	2:I:1302:THR:HG22	1.81	0.80
3:J:665:GLN:O	3:J:668:PHE:HB3	1.80	0.80
1:N:32:GLU:HB3	1:N:35:PHE:HD2	1.45	0.80
2:O:548:ARG:NH1	3:P:788:LEU:HD11	1.96	0.80
2:C:1105:SER:HB3	3:D:731:ARG:HG3	1.63	0.80
2:C:1286:THR:OG1	3:D:479:GLU:OE2	1.97	0.80
2:I:661:VAL:CG1	2:I:665:ALA:CB	2.50	0.80
1:N:61:ILE:HB	1:N:64:VAL:HB	1.62	0.80
2:O:428:VAL:CG1	2:O:429:MET:N	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1085:MET:HA	2:I:1085:MET:HE2	1.62	0.80
2:I:255:ILE:O	2:I:255:ILE:HG22	1.82	0.80
2:I:790:ASP:O	2:I:792:GLY:N	2.12	0.80
3:J:139:LEU:CD2	3:J:185:ILE:HD11	2.11	0.80
2:O:1275:VAL:HG21	3:P:343:LEU:O	1.81	0.80
3:P:1263:LYS:HB2	3:P:1307:LEU:CD1	2.11	0.80
3:P:245:LEU:HD12	3:P:246:PRO:HD2	1.63	0.80
3:P:45:ASN:HB3	3:P:48:THR:O	1.80	0.80
3:P:839:VAL:HG13	3:P:864:LEU:HD12	1.62	0.80
2:C:1113:LEU:HD23	2:C:1113:LEU:N	1.94	0.80
2:C:1288:GLN:O	2:C:1292:THR:HG22	1.81	0.80
1:N:191:ARG:HG3	1:N:196:THR:HG22	1.63	0.80
2:O:1274:GLU:OE2	3:P:424:ASN:ND2	2.14	0.80
3:D:1161:GLY:HA2	3:D:1180:VAL:HG22	1.62	0.80
2:I:1234:LYS:C	2:I:1235:LEU:HD23	2.02	0.80
2:O:1278:LEU:HD23	2:O:1283:ALA:HB3	1.64	0.80
3:D:1310:THR:O	3:D:1314:LEU:HG	1.82	0.80
3:D:267:ASP:OD1	3:D:270:ARG:NH2	2.15	0.80
3:D:572:THR:OG1	3:D:576:ARG:HB2	1.80	0.80
2:I:148:GLN:NE2	2:I:533:LEU:O	2.10	0.80
3:J:797:THR:HG23	3:J:924:GLY:CA	2.11	0.80
3:J:959:LYS:HD2	3:J:985:ILE:HG13	1.61	0.80
5:L:105:MET:SD	5:L:385:ARG:HG2	2.22	0.80
1:M:106:GLY:HA2	1:M:136:GLU:HA	1.64	0.80
7:2:24:DT:H2 ^o	7:2:25:DA:OP1	1.80	0.80
1:A:48:LEU:HD12	1:A:183:ILE:CG2	2.11	0.80
3:D:1179:PRO:CD	3:D:1184:ASP:O	2.30	0.80
2:I:1270:PHE:N	3:J:345:LYS:O	2.15	0.80
2:I:1327:LEU:HD23	2:I:1327:LEU:N	1.96	0.80
2:I:176:ILE:HD12	2:I:184:LEU:HB2	1.63	0.80
3:J:153:ASN:HB2	3:J:154:LEU:HD12	1.63	0.80
5:L:548:LEU:HD11	5:L:560:ARG:HE	1.47	0.80
2:O:390:PHE:CD2	2:O:390:PHE:N	2.48	0.80
2:O:1258:PRO:HG2	3:P:346:ARG:CB	2.12	0.80
3:P:1220:ILE:HG23	3:P:1224:ARG:HD2	1.64	0.80
3:P:749:LYS:HB3	3:P:750:PRO:CD	2.12	0.80
5:R:391:ALA:O	5:R:395:THR:HG23	1.81	0.80
5:R:464:ASN:CG	7:8:25:DA:N6	2.36	0.80
5:R:514:ASP:O	5:R:516:ASP:N	2.15	0.80
1:A:91:ARG:HB2	1:A:122:GLU:HB3	1.62	0.80
2:C:1104:PRO:HG3	3:D:725:MET:HE1	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:251:PRO:O	5:F:507:MET:HE1	1.81	0.80
3:J:1282:TYR:O	3:J:1285:VAL:CG1	2.25	0.80
3:P:930:LEU:CD1	3:P:1246:VAL:HG21	2.12	0.80
2:I:681:MET:O	2:I:685:MET:HG2	1.82	0.79
2:O:155:VAL:HG22	2:O:405:PHE:CD2	2.17	0.79
3:P:367:GLY:O	3:P:447:ILE:HG23	1.81	0.79
3:D:1011:VAL:HG11	3:D:1017:VAL:HG11	1.64	0.79
3:J:111:THR:HG23	3:J:300:GLN:HG3	1.63	0.79
2:O:60:GLN:O	2:O:476:LYS:HE3	1.82	0.79
3:D:771:GLN:HA	3:D:774:ILE:HD12	1.64	0.79
2:I:402:ARG:HG2	2:I:416:GLY:HA3	1.64	0.79
1:M:50:SER:OG	1:N:35:PHE:HZ	1.65	0.79
1:M:41:ASN:HD21	2:O:1218:GLY:HA3	1.47	0.79
3:P:974:VAL:HG11	3:P:1028:ILE:CG2	2.12	0.79
3:D:110:PRO:HD2	3:D:183:GLU:OE2	1.82	0.79
3:D:926:PRO:O	3:D:930:LEU:HG	1.82	0.79
3:J:839:VAL:O	3:J:842:ARG:HG3	1.82	0.79
5:L:476:ARG:HG3	5:L:477:GLU:H	1.45	0.79
2:O:1124:ILE:HD11	2:O:1198:LEU:CD1	2.13	0.79
2:O:197:ARG:NH1	2:O:201:ARG:O	2.16	0.79
2:O:232:ILE:HG21	2:O:326:SER:HB2	1.64	0.79
2:O:672:GLU:HG3	2:O:1187:PHE:HA	1.64	0.79
3:P:1137:GLY:O	3:P:1141:VAL:HG23	1.81	0.79
2:C:1287:LEU:CD2	3:D:1357:ILE:HD11	2.09	0.79
3:D:1356:LEU:HD12	3:D:1365:TYR:CD1	2.18	0.79
3:D:720:ASN:HD22	3:D:723:TYR:H	1.27	0.79
5:L:390:ILE:HD13	5:L:432:THR:HG23	1.64	0.79
5:R:381:GLU:O	5:R:384:LEU:HG	1.83	0.79
3:J:514:THR:HB	3:J:595:ALA:HA	1.64	0.79
1:A:35:PHE:HZ	1:B:50:SER:HG	1.31	0.79
2:C:807:TRP:CG	2:C:817:LEU:HD11	2.18	0.79
3:D:1154:ALA:HB1	3:D:1211:SER:HB2	1.65	0.79
3:P:849:LEU:CD2	3:P:857:LEU:HD23	2.12	0.79
5:L:471:LEU:HG	5:L:476:ARG:O	1.81	0.79
3:P:242:LEU:HD12	3:P:243:PRO:HD2	1.65	0.79
1:A:214:GLU:HA	1:A:217:ILE:HD12	1.65	0.79
2:C:1073:LYS:NZ	8:3:15:G:O5'	2.14	0.79
2:C:1104:PRO:CG	3:D:725:MET:CE	2.57	0.79
5:F:395:THR:HA	5:F:404:LEU:HD13	1.62	0.79
2:I:1280:ALA:HB1	3:J:431:ARG:HB3	1.62	0.79
2:O:448:LEU:HD12	2:O:557:ARG:HD2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1086:PRO:HB2	2:C:1212:LEU:HD13	1.64	0.79
2:C:217:THR:HG21	2:C:313:ALA:HB1	1.65	0.79
5:F:465:ARG:HG2	5:F:468:ARG:NH2	1.98	0.79
1:H:195:ARG:HB3	1:H:198:LEU:HD13	1.62	0.79
3:J:1145:PHE:CB	3:J:1309:ILE:HD11	2.13	0.79
3:J:891:ASP:OD1	3:J:891:ASP:N	2.14	0.79
3:J:809:VAL:CG2	3:J:915:ILE:HD11	2.13	0.79
2:O:1275:VAL:HG12	2:O:1279:GLU:OE2	1.82	0.79
1:A:59:VAL:HG22	1:A:144:ILE:HG23	1.64	0.78
1:A:28:LEU:HD11	1:B:231:PHE:CE1	2.17	0.78
1:B:88:LEU:CD2	1:B:128:HIS:CD2	2.64	0.78
3:D:544:LEU:HA	3:D:574:VAL:HB	1.64	0.78
3:J:367:GLY:O	3:J:447:ILE:HG22	1.83	0.78
2:O:92:TYR:CB	2:O:137:VAL:HG21	2.14	0.78
1:A:47:LEU:HD13	1:A:183:ILE:CD1	2.13	0.78
2:C:210:LEU:HB3	2:C:220:ILE:HD11	1.64	0.78
3:D:1267:VAL:O	3:D:1268:ASN:HB2	1.80	0.78
3:D:598:LYS:HD2	3:D:729:GLY:O	1.83	0.78
2:I:1289:GLU:C	2:I:1294:LYS:HG3	2.02	0.78
2:I:689:ALA:HB1	2:I:1233:LEU:HD22	1.65	0.78
2:I:743:PRO:HA	2:I:974:ARG:HH12	1.49	0.78
3:J:869:CYS:HA	3:J:872:LEU:CD1	2.13	0.78
5:L:374:ARG:NH1	5:L:374:ARG:HB2	1.98	0.78
3:P:217:LEU:O	3:P:221:ILE:HG13	1.82	0.78
2:O:92:TYR:CB	2:O:137:VAL:CG2	2.61	0.78
3:D:363:LEU:HG	3:D:487:THR:HG22	1.65	0.78
4:E:46:THR:HA	4:E:49:ILE:HD12	1.65	0.78
2:I:876:GLU:HG3	2:I:927:THR:HG23	1.65	0.78
3:J:131:PRO:O	3:J:135:ILE:HG13	1.84	0.78
1:A:28:LEU:HD11	1:B:231:PHE:HE1	1.46	0.78
2:C:819:SER:O	2:C:822:VAL:CG2	2.28	0.78
3:J:1163:VAL:HG22	3:J:1177:ILE:CG2	2.13	0.78
3:J:1280:VAL:HG12	3:J:1281:GLU:H	1.48	0.78
3:J:1220:ILE:HG23	3:J:1224:ARG:HD2	1.66	0.78
1:M:47:LEU:HD13	1:M:183:ILE:HD12	1.63	0.78
7:8:18:DT:H2'	7:8:19:DA:H5''	1.64	0.78
1:A:109:PRO:HB3	1:A:132:HIS:HD2	1.47	0.78
2:C:1273:MET:HB3	3:D:428:THR:HB	1.66	0.78
3:D:515:ARG:HH21	3:D:717:VAL:HB	1.48	0.78
3:J:363:LEU:HD23	3:J:618:VAL:HG13	1.65	0.78
3:J:839:VAL:HG12	3:J:864:LEU:HD12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1047:LEU:C	2:O:1048:LYS:HG3	2.04	0.78
7:5:25:DA:H1'	7:5:26:DT:H5'	1.65	0.78
1:G:228:LEU:HD21	1:H:224:LEU:HD23	1.65	0.78
1:H:190:ALA:H	1:H:199:ASP:HA	1.47	0.78
2:I:255:ILE:HD13	2:I:285:ILE:HD13	1.65	0.78
3:J:349:TYR:CE2	3:J:472:LEU:HD11	2.18	0.78
3:J:974:VAL:HG11	3:J:1028:ILE:HG21	1.66	0.78
2:O:897:PRO:HB3	5:R:563:PHE:O	1.84	0.78
2:O:886:LYS:CD	2:O:916:SER:HB2	2.09	0.78
3:P:1328:THR:O	3:P:1332:LEU:HG	1.83	0.78
1:A:39:LEU:HD23	1:A:39:LEU:N	1.98	0.78
2:C:563:THR:CG2	2:C:680:LEU:HD11	2.13	0.78
2:C:704:MET:O	2:C:708:VAL:HG23	1.84	0.78
1:G:56:VAL:HG13	1:G:144:ILE:CG2	2.13	0.78
2:I:184:LEU:HD21	2:I:389:PHE:CZ	2.19	0.78
3:J:1109:LEU:HD13	3:J:1115:ILE:HG22	1.66	0.78
3:J:1145:PHE:HB3	3:J:1309:ILE:HD11	1.66	0.78
3:J:664:ILE:HG12	3:J:681:LYS:HZ1	1.48	0.78
2:O:1278:LEU:CD2	2:O:1283:ALA:CB	2.62	0.78
3:P:483:LEU:HD21	4:Q:16:ARG:HB3	1.66	0.78
2:I:700:VAL:HG21	2:I:1114:GLU:HG3	1.66	0.78
3:J:795:TYR:O	3:J:799:ARG:HG3	1.83	0.78
2:O:870:ILE:HG13	2:O:944:ARG:HG2	1.66	0.78
3:P:503:SER:O	3:P:506:VAL:HG23	1.83	0.78
3:D:549:LYS:HD3	3:D:569:LEU:HD22	1.66	0.77
1:H:129:VAL:HG11	1:H:132:HIS:HE1	1.49	0.77
3:J:555:TYR:HB3	3:J:563:LEU:HD22	1.67	0.77
1:M:30:PRO:HB2	1:M:198:LEU:CD2	2.13	0.77
2:O:75:LEU:HD23	2:O:127:ILE:CD1	2.13	0.77
5:R:291:CYS:O	5:R:295:CYS:HB2	1.84	0.77
5:R:387:VAL:HG11	5:R:409:ASN:OD1	1.83	0.77
5:R:551:LEU:HD13	5:R:559:LEU:HD12	1.66	0.77
5:R:583:THR:HG21	5:R:586:ARG:HB3	1.64	0.77
6:1:47:DC:H6	6:1:47:DC:C5'	1.95	0.77
2:I:937:ASP:HB2	2:I:1039:GLY:HA3	1.67	0.77
3:J:492:SER:HG	3:J:495:ASN:H	1.29	0.77
5:L:548:LEU:CD1	5:L:560:ARG:HE	1.97	0.77
2:O:599:VAL:CG2	2:O:623:LEU:CD2	2.62	0.77
2:O:886:LYS:HD2	2:O:916:SER:CB	2.08	0.77
7:8:18:DT:H2'	7:8:19:DA:C5'	2.14	0.77
1:B:158:ARG:CD	1:B:172:LEU:HD11	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:213:LEU:O	2:C:214:ASN:HB2	1.82	0.77
2:C:798:GLN:HB3	2:C:827:ARG:NH2	1.98	0.77
3:D:112:ALA:HA	3:D:238:ILE:CD1	2.14	0.77
1:H:168:ILE:HD11	3:P:867:GLN:HB3	1.64	0.77
3:J:449:LEU:HD12	3:J:450:HIS:N	2.00	0.77
2:O:1004:ASP:OD1	2:O:1008:GLN:HG2	1.85	0.77
2:O:1304:MET:HE3	2:O:1308:ILE:HD11	1.64	0.77
2:O:197:ARG:HB3	2:O:200:ARG:HA	1.66	0.77
2:O:488:MET:HB3	2:O:489:PRO:HD2	1.67	0.77
2:O:902:LEU:HA	2:O:905:ILE:HD12	1.66	0.77
2:O:934:PHE:O	2:O:1049:ILE:N	2.17	0.77
3:D:139:LEU:HD21	3:D:185:ILE:HD12	1.57	0.77
5:F:306:PHE:O	5:F:310:GLU:HG3	1.83	0.77
2:I:960:LEU:HD13	2:I:1028:LYS:HB3	1.66	0.77
2:I:718:ALA:HB2	2:I:783:LEU:HD21	1.67	0.77
3:J:1137:GLY:O	3:J:1141:VAL:HG23	1.84	0.77
3:J:482:ALA:O	3:J:488:ASN:ND2	2.17	0.77
2:O:171:LEU:HD22	2:O:188:PHE:O	1.83	0.77
3:P:698:MET:O	3:P:702:GLN:HB3	1.85	0.77
2:C:1273:MET:O	3:D:428:THR:HG21	1.85	0.77
3:D:706:VAL:HA	3:D:714:GLU:O	1.84	0.77
5:F:381:GLU:HA	5:F:384:LEU:HD21	1.63	0.77
3:J:629:PHE:O	3:J:632:ALA:HB3	1.82	0.77
5:L:583:THR:HG22	5:L:587:ILE:HG12	1.64	0.77
1:M:46:ILE:HG23	1:M:50:SER:HB2	1.66	0.77
1:N:75:GLN:HG3	1:N:134:THR:HG23	1.65	0.77
2:O:170:VAL:HG12	2:O:172:TYR:CE2	2.19	0.77
2:O:33:ASP:O	2:O:37:LYS:HG3	1.84	0.77
3:P:1286:LYS:HA	3:P:1289:ASN:HD22	1.49	0.77
2:I:481:LEU:HG	2:I:482:GLY:N	1.96	0.77
3:D:146:VAL:HG21	3:D:158:GLN:HB3	1.67	0.77
1:G:101:THR:HG22	1:G:143:ARG:HG2	1.67	0.77
2:I:1278:LEU:HB2	2:I:1287:LEU:HD22	1.66	0.77
2:I:560:PRO:O	3:J:780:ARG:NH2	2.12	0.77
2:I:873:ILE:CG1	2:I:944:ARG:HH22	1.98	0.77
3:J:54:ASP:OD1	3:J:60:ARG:NH2	2.17	0.77
1:M:75:GLN:HE21	1:M:134:THR:CG2	1.98	0.77
2:O:183:TRP:CZ3	6:7:48:DA:N6	2.53	0.77
2:I:886:LYS:N	2:I:917:SER:HG	1.82	0.77
3:J:1144:LEU:HD13	3:J:1237:VAL:HG22	1.65	0.77
1:M:67:GLU:HA	1:M:78:ILE:HG21	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:179:PRO:HG3	1:N:211:ILE:CD1	2.11	0.77
1:A:192:VAL:HG11	1:A:195:ARG:HB2	1.66	0.77
1:A:150:ARG:NH1	1:B:7:GLU:O	2.17	0.77
5:F:580:PHE:O	5:F:581:ASP:HB2	1.83	0.77
1:N:32:GLU:HB3	1:N:35:PHE:CD2	2.20	0.77
3:P:1267:VAL:O	3:P:1268:ASN:HB2	1.84	0.77
2:C:13:LYS:NZ	2:C:1151:LEU:HB3	1.99	0.77
3:D:1154:ALA:CB	3:D:1211:SER:HB2	2.14	0.77
1:G:44:ARG:O	1:G:47:LEU:HB2	1.84	0.77
1:G:38:THR:HG23	1:H:45:ARG:HD3	1.67	0.77
2:I:686:GLN:NE2	2:I:1069:ARG:HG2	2.00	0.77
3:J:1323:ALA:HB2	3:J:1332:LEU:HD21	1.68	0.77
2:I:1282:GLY:O	3:J:1361:THR:OG1	2.02	0.77
3:J:363:LEU:CD2	3:J:618:VAL:CG1	2.62	0.77
3:J:964:LYS:HD2	3:J:977:SER:HB3	1.64	0.77
2:C:1184:THR:O	2:C:1184:THR:CG2	2.34	0.76
3:D:378:LYS:HA	3:D:381:ILE:HD12	1.67	0.76
1:G:189:ALA:HA	1:G:199:ASP:CB	2.11	0.76
2:I:1286:THR:O	2:I:1290:MET:HG2	1.85	0.76
3:J:1226:VAL:O	3:J:1229:VAL:HG13	1.85	0.76
2:I:1276:TRP:HE1	3:J:1348:LYS:HZ1	1.32	0.76
3:J:601:ILE:CG2	3:J:602:SER:N	2.46	0.76
5:L:507:MET:HA	5:L:519:LEU:HD23	1.66	0.76
1:H:44:ARG:HH12	3:J:538:ARG:HD2	1.50	0.76
2:I:878:THR:HG22	2:I:879:GLY:N	1.98	0.76
2:I:972:PHE:HA	2:I:975:ILE:HD12	1.67	0.76
3:J:749:LYS:HB3	3:J:750:PRO:CD	2.13	0.76
5:L:532:LEU:CD1	5:L:532:LEU:H	1.98	0.76
2:O:700:VAL:O	2:O:1069:ARG:NH2	2.18	0.76
3:P:1321:SER:O	3:P:1324:SER:OG	2.01	0.76
7:5:25:DA:H1'	7:5:26:DT:C5'	2.15	0.76
3:J:352:ARG:NH2	3:J:465:GLN:HB2	2.00	0.76
3:J:385:LEU:CD1	3:J:397:ALA:HB1	2.16	0.76
3:J:664:ILE:HG12	3:J:681:LYS:NZ	2.00	0.76
1:M:48:LEU:HD21	1:M:183:ILE:CG2	2.16	0.76
2:O:539:THR:HG22	2:O:540:ARG:N	1.99	0.76
4:E:42:GLU:OE1	4:E:52:ARG:NH2	2.17	0.76
2:I:1124:ILE:HD11	2:I:1198:LEU:CD1	2.12	0.76
2:O:302:ILE:HG22	2:O:309:LEU:HD22	1.68	0.76
3:P:1159:ILE:HA	3:P:1206:ARG:HG2	1.66	0.76
3:P:515:ARG:NH2	3:P:717:VAL:O	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:384:LEU:O	5:R:388:ILE:HG22	1.85	0.76
3:J:411:ILE:O	3:J:415:VAL:HG23	1.86	0.76
1:M:74:VAL:HG12	1:M:76:GLU:O	1.85	0.76
3:P:1291:GLU:O	3:P:1295:ASN:ND2	2.19	0.76
3:P:826:ILE:HG12	3:P:831:VAL:CG2	2.16	0.76
3:D:485:MET:SD	3:D:486:SER:N	2.58	0.76
2:I:1289:GLU:HG2	2:I:1293:VAL:HG21	1.68	0.76
2:I:363:LEU:HD22	2:I:381:ALA:O	1.86	0.76
2:I:60:GLN:O	2:I:476:LYS:CE	2.33	0.76
3:J:139:LEU:HD23	3:J:185:ILE:HD11	1.65	0.76
3:J:709:ARG:O	3:J:709:ARG:CG	2.33	0.76
1:M:86:LYS:HE2	1:M:173:VAL:CG1	2.16	0.76
2:O:726:TYR:HB3	2:O:733:VAL:HG22	1.67	0.76
2:O:96:LEU:HB2	2:O:127:ILE:CD1	2.16	0.76
3:P:1347:LEU:CD2	3:P:1357:ILE:HG23	2.14	0.76
5:R:487:MET:O	5:R:488:LEU:HB3	1.85	0.76
5:R:610:PHE:HB3	5:R:613:ASP:OD2	1.86	0.76
1:B:64:VAL:HG12	1:B:64:VAL:O	1.84	0.76
1:G:228:LEU:CD2	1:H:224:LEU:HD21	2.16	0.76
5:L:456:MET:O	5:L:460:ILE:HG13	1.85	0.76
3:P:909:ILE:HG12	3:P:910:ASN:N	2.00	0.76
1:A:47:LEU:HD13	1:A:183:ILE:HD12	1.68	0.76
2:C:1297:ASP:OD2	2:C:1300:GLY:HA3	1.84	0.76
3:D:1353:VAL:CG2	3:D:1355:ARG:HD2	2.16	0.76
3:D:720:ASN:ND2	3:D:723:TYR:H	1.84	0.76
2:I:1332:SER:O	3:J:243:PRO:HG2	1.86	0.76
2:I:551:HIS:HD1	2:I:553:THR:HG1	1.20	0.76
3:J:470:VAL:O	3:J:472:LEU:HD23	1.86	0.76
1:M:30:PRO:HB3	1:M:198:LEU:HD13	1.68	0.76
3:J:352:ARG:HH21	3:J:465:GLN:HB2	1.50	0.76
2:I:1242:LYS:HE2	3:J:465:GLN:HE21	1.51	0.76
3:J:845:ALA:O	3:J:846:GLU:HB3	1.85	0.76
2:C:374:GLU:OE2	6:1:42:DG:N2	2.19	0.76
2:I:206:ALA:O	2:I:209:ILE:CG2	2.32	0.76
2:C:422:LYS:HE2	2:I:996:ARG:HG2	1.67	0.76
3:J:132:LEU:HA	3:J:135:ILE:HD12	1.68	0.76
3:J:398:LYS:NZ	5:L:532:LEU:HG	2.00	0.76
5:L:593:LYS:O	5:L:597:LYS:HG2	1.86	0.76
1:M:85:LEU:CD1	1:M:144:ILE:HD13	2.16	0.76
2:O:1258:PRO:HG2	3:P:346:ARG:HB2	1.68	0.76
3:P:795:TYR:CD1	7:8:12:DG:C5'	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:26:SER:HB3	3:D:29:MET:HB2	1.68	0.75
2:C:1101:LEU:HD22	3:D:505:ASP:OD1	1.85	0.75
2:C:1311:GLY:O	4:E:31:GLN:CG	2.34	0.75
4:E:38:LEU:HD12	4:E:53:GLU:HG2	1.67	0.75
2:I:164:THR:O	2:I:165:HIS:HB2	1.86	0.75
2:I:168:GLY:O	3:J:1065:ALA:HA	1.85	0.75
3:J:234:PRO:O	3:J:237:MET:HG2	1.85	0.75
3:P:318:GLY:N	3:P:322:ARG:O	2.19	0.75
5:R:84:LEU:CG	5:R:107:THR:HG21	2.15	0.75
3:D:282:LEU:CD2	3:D:287:ALA:HB2	2.13	0.75
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.85	0.75
5:L:166:VAL:HG11	5:L:212:ILE:HG13	1.68	0.75
1:M:179:PRO:HA	1:M:208:ASN:HD21	1.49	0.75
2:O:90:VAL:HG12	2:O:91:THR:H	1.48	0.75
3:P:146:VAL:HG21	3:P:154:LEU:HD13	1.68	0.75
3:P:320:ASN:O	3:P:321:LYS:HB3	1.84	0.75
7:8:30:DA:H2''	7:8:31:DT:OP2	1.85	0.75
1:B:224:LEU:HD13	1:B:225:ALA:N	2.02	0.75
1:A:35:PHE:HZ	1:B:50:SER:CB	1.99	0.75
2:C:929:ILE:O	2:C:929:ILE:HD13	1.87	0.75
3:D:918:ILE:HG22	3:D:919:ALA:N	2.01	0.75
3:J:1175:LEU:CD1	3:J:1176:VAL:H	1.89	0.75
6:7:45:DT:H3'	6:7:46:DG:H5''	1.69	0.75
2:C:700:VAL:HG13	2:C:1117:LEU:CD2	2.15	0.75
2:I:871:VAL:CG2	2:I:883:LEU:HA	2.16	0.75
5:L:401:PHE:O	5:L:405:ILE:CG1	2.33	0.75
5:L:493:LYS:O	5:L:497:VAL:HG23	1.87	0.75
5:L:559:LEU:HD11	5:L:594:ALA:HB1	1.67	0.75
5:R:460:ILE:O	5:R:464:ASN:ND2	2.19	0.75
7:8:24:DT:H2''	7:8:25:DA:OP1	1.85	0.75
1:A:48:LEU:HD12	1:A:183:ILE:HG23	1.67	0.75
2:C:402:ARG:HG2	2:C:416:GLY:N	2.02	0.75
2:C:1100:PRO:HB3	3:D:639:VAL:HG23	1.66	0.75
3:D:767:LEU:HD13	3:D:771:GLN:HB3	1.67	0.75
5:F:333:VAL:HG13	5:F:333:VAL:O	1.85	0.75
1:G:224:LEU:HD21	1:H:228:LEU:HD11	1.68	0.75
3:J:1357:ILE:O	3:J:1362:GLY:HA3	1.85	0.75
3:P:518:VAL:O	3:P:520:ALA:N	2.20	0.75
1:A:41:ASN:HD21	2:C:1218:GLY:CA	1.97	0.75
5:F:460:ILE:HA	5:F:463:LEU:HD12	1.67	0.75
4:E:79:GLU:HG2	4:E:82:ALA:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:514:ASP:O	5:F:516:ASP:N	2.19	0.75
1:G:228:LEU:HA	1:G:231:PHE:CD2	2.22	0.75
2:I:60:GLN:O	2:I:476:LYS:HE3	1.86	0.75
3:J:1155:ILE:C	3:J:1156:LEU:HD23	2.05	0.75
3:J:475:GLU:N	3:J:475:GLU:OE1	2.18	0.75
3:J:79:LYS:HD3	3:J:80:HIS:CE1	2.22	0.75
2:O:96:LEU:CB	2:O:127:ILE:HD11	2.15	0.75
2:I:593:LYS:NZ	2:I:595:THR:OG1	2.19	0.75
3:J:251:PRO:HG2	5:L:507:MET:HE1	1.66	0.75
3:J:368:LEU:HD12	3:J:369:PRO:CD	2.16	0.75
1:N:214:GLU:O	1:N:217:ILE:HB	1.87	0.75
3:P:1140:ARG:NH2	3:P:1236:GLU:OE2	2.20	0.75
3:P:76:LYS:HG3	3:P:77:ARG:HG3	1.69	0.75
3:P:926:PRO:HG2	3:P:1248:ILE:HD11	1.69	0.75
3:D:1263:LYS:HD3	3:D:1281:GLU:HA	1.68	0.75
3:D:267:ASP:O	3:D:271:ARG:HG3	1.85	0.75
3:P:1282:TYR:O	3:P:1285:VAL:CG1	2.33	0.75
2:C:1225:VAL:HG22	3:D:638:SER:CB	2.10	0.74
2:I:275:ARG:HG3	2:I:275:ARG:HH11	1.51	0.74
5:L:402:LEU:HA	5:L:405:ILE:HD12	1.69	0.74
3:P:431:ARG:HH11	3:P:493:PRO:HB3	1.50	0.74
1:A:13:LEU:HA	1:A:28:LEU:HD22	1.69	0.74
2:C:1121:ALA:HB2	2:C:1182:ILE:HD11	1.69	0.74
2:C:927:THR:O	2:C:1055:ALA:N	2.17	0.74
2:I:1289:GLU:OE2	3:J:472:LEU:HB2	1.86	0.74
5:L:84:LEU:HG	5:L:107:THR:CG2	2.17	0.74
4:E:2:ALA:N	4:E:5:THR:O	2.20	0.74
5:F:295:CYS:O	5:F:296:LYS:HB2	1.85	0.74
2:I:1332:SER:OG	3:J:245:LEU:CD1	2.31	0.74
2:I:839:VAL:O	2:I:886:LYS:CE	2.33	0.74
3:J:1349:GLU:O	3:J:1353:VAL:HG13	1.87	0.74
3:P:1093:THR:HG22	3:P:1200:GLU:OE1	1.87	0.74
3:P:518:VAL:HG21	3:P:707:ILE:CD1	2.17	0.74
5:R:449:THR:CB	5:R:504:PRO:HG3	2.18	0.74
2:C:1294:LYS:HB3	3:D:347:VAL:HG13	1.69	0.74
3:D:654:ILE:HD13	3:D:760:THR:HB	1.70	0.74
1:M:66:HIS:CE1	2:O:929:ILE:HG13	2.22	0.74
3:P:111:THR:CG2	3:P:112:ALA:N	2.50	0.74
3:P:367:GLY:O	3:P:447:ILE:CG2	2.36	0.74
2:C:167:SER:HA	3:D:1064:SER:HB3	1.70	0.74
2:C:698:PRO:HG3	2:C:1231:TYR:CZ	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:66:HIS:CE1	1:G:69:SER:HB3	2.22	0.74
2:I:551:HIS:H	2:I:554:HIS:CE1	2.05	0.74
3:P:1190:ILE:HG22	3:P:1191:PRO:O	1.88	0.74
3:P:117:LEU:HD12	3:P:124:ILE:HD12	1.68	0.74
2:C:94:ALA:HB2	2:C:129:LEU:HD11	1.68	0.74
3:D:795:TYR:CE1	7:2:12:DG:H5'	2.22	0.74
5:L:554:ARG:O	5:L:558:VAL:HG23	1.86	0.74
1:M:50:SER:OG	1:N:35:PHE:CZ	2.40	0.74
2:O:658:GLN:HE21	2:O:1186:VAL:HG23	1.52	0.74
2:O:878:THR:HG23	2:O:879:GLY:H	1.53	0.74
5:R:353:LEU:HB3	5:R:358:VAL:CG2	2.17	0.74
2:C:577:VAL:HG23	2:C:661:VAL:O	1.88	0.74
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.69	0.74
2:C:1309:VAL:HG13	3:D:383:GLY:CA	2.17	0.74
3:D:891:ASP:N	3:D:891:ASP:OD1	2.19	0.74
5:F:392:LYS:HA	5:F:395:THR:CG2	2.16	0.74
2:I:960:LEU:HB3	2:I:1025:PHE:CE1	2.21	0.74
3:P:121:PRO:CB	3:P:126:LEU:HD11	2.17	0.74
5:R:580:PHE:O	5:R:581:ASP:CB	2.36	0.74
3:D:475:GLU:HA	3:D:478:LEU:HD12	1.69	0.74
3:P:116:PHE:O	3:P:124:ILE:HG13	1.88	0.74
3:P:212:THR:HA	3:P:215:LYS:HE3	1.70	0.74
5:R:464:ASN:OD1	7:8:25:DA:N6	2.21	0.74
7:5:5:DC:H2''	7:5:6:DG:H5'	1.70	0.74
1:A:44:ARG:HA	1:A:47:LEU:HD12	1.69	0.74
1:A:92:VAL:HG11	1:A:95:LYS:O	1.88	0.74
1:B:224:LEU:C	1:B:224:LEU:HD22	2.06	0.74
2:C:201:ARG:HB3	2:C:369:MET:HE1	1.69	0.74
2:C:653:MET:HG2	2:C:654:ASP:N	2.03	0.74
2:C:925:SER:O	2:C:1056:VAL:HG13	1.88	0.74
1:G:43:LEU:O	1:G:47:LEU:CG	2.34	0.74
2:I:96:LEU:HB2	2:I:127:ILE:HD11	1.69	0.74
3:J:1321:SER:O	3:J:1324:SER:OG	2.06	0.74
2:O:1120:ALA:HB2	2:O:1199:LEU:HG	1.69	0.74
2:O:722:GLY:HA2	2:O:737:ASN:OD1	1.88	0.74
3:D:1326:GLN:HE21	7:2:11:DA:H4'	1.53	0.73
2:C:524:ILE:HD11	2:C:712:SER:CB	2.15	0.73
2:C:951:MET:O	2:C:955:GLN:HG2	1.88	0.73
3:D:471:PRO:HB2	3:D:476:ALA:HB1	1.70	0.73
3:J:1163:VAL:CG1	3:J:1176:VAL:O	2.35	0.73
3:P:117:LEU:HD13	3:P:124:ILE:HD12	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:260:ARG:HH12	5:R:422:ARG:HH22	1.34	0.73
7:8:25:DA:H1'	7:8:26:DT:H5'	1.70	0.73
2:C:686:GLN:NE2	2:C:1069:ARG:HG2	2.03	0.73
2:O:1077:SER:HA	3:P:356:THR:HG21	1.70	0.73
2:O:335:THR:HG22	2:O:336:LEU:N	2.03	0.73
3:P:121:PRO:O	3:P:122:SER:HB3	1.86	0.73
3:P:78:LEU:HD23	3:P:78:LEU:N	2.03	0.73
3:P:849:LEU:HD22	3:P:857:LEU:HA	1.68	0.73
5:L:585:GLU:HG3	7:5:48:DC:H41	1.50	0.73
1:B:191:ARG:O	1:B:191:ARG:HG2	1.88	0.73
3:J:303:VAL:O	3:J:307:LEU:HG	1.88	0.73
5:R:585:GLU:OE2	5:R:588:ARG:CG	2.37	0.73
1:G:42:ALA:O	1:G:46:ILE:HG13	1.89	0.73
1:H:166:ARG:HD2	1:H:170:ARG:HG2	1.68	0.73
2:I:886:LYS:HD2	2:I:916:SER:HB2	1.69	0.73
3:J:1156:LEU:HD22	3:J:1209:VAL:HA	1.69	0.73
1:N:104:LYS:O	1:N:140:ILE:HG22	1.88	0.73
2:O:1184:THR:OG1	2:O:1189:GLY:HA3	1.89	0.73
2:C:1324:ASN:O	2:C:1328:LYS:HG2	1.89	0.73
2:C:459:MET:HE2	2:C:459:MET:HA	1.70	0.73
3:D:536:LEU:CD2	3:D:541:LEU:HB3	2.19	0.73
2:I:196:VAL:CG2	2:I:206:ALA:HA	2.18	0.73
2:I:524:ILE:HD11	2:I:712:SER:HB3	1.70	0.73
3:J:1318:SER:OG	3:J:1321:SER:CB	2.30	0.73
3:J:373:ALA:HA	3:J:376:LEU:CG	2.19	0.73
7:2:25:DA:H2''	7:2:26:DT:OP2	1.87	0.73
1:B:88:LEU:HD22	1:B:128:HIS:HD2	1.52	0.73
2:C:1098:LEU:HD23	2:C:1099:ASN:H	1.52	0.73
2:I:539:THR:CG2	2:I:540:ARG:N	2.51	0.73
3:J:749:LYS:CB	3:J:750:PRO:HD2	2.13	0.73
2:O:1273:MET:HG2	7:8:14:DC:H4'	1.70	0.73
3:P:1207:GLY:HA2	3:P:1223:LEU:HD13	1.69	0.73
6:1:43:DT:H2'	6:1:44:DG:H5''	1.71	0.73
4:E:47:THR:O	4:E:51:LEU:HG	1.88	0.73
3:J:247:PRO:HA	3:J:250:ARG:HG3	1.70	0.73
1:N:100:LEU:HB3	1:N:115:ILE:HD12	1.71	0.73
2:O:445:ILE:HB	2:O:446:ASP:OD1	1.89	0.73
2:O:599:VAL:HG21	2:O:623:LEU:HD22	1.69	0.73
2:O:839:VAL:O	2:O:886:LYS:HE2	1.88	0.73
2:I:211:ARG:CD	2:I:357:ASN:O	2.36	0.73
2:I:508:SER:OG	7:5:21:DG:N2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:166:VAL:HG12	5:L:168:PRO:HD3	1.71	0.73
2:O:1275:VAL:CG1	2:O:1279:GLU:OE2	2.36	0.73
2:O:91:THR:HG23	2:O:137:VAL:O	1.88	0.73
3:D:514:THR:HB	3:D:595:ALA:HA	1.71	0.73
3:J:1164:SER:C	3:J:1175:LEU:CD1	2.53	0.73
3:J:30:ILE:HD13	3:J:243:PRO:HD3	1.71	0.73
5:L:385:ARG:O	5:L:388:ILE:HG22	1.89	0.73
2:O:448:LEU:CD1	2:O:557:ARG:HD2	2.19	0.73
2:C:661:VAL:CG1	2:C:665:ALA:CB	2.67	0.73
2:I:1085:MET:CE	2:I:1085:MET:HA	2.18	0.73
2:I:30:ILE:HD11	2:I:575:LEU:HD22	1.71	0.73
2:I:809:GLY:O	3:J:357:VAL:HG11	1.88	0.73
1:M:11:PRO:O	1:N:230:ALA:HB1	1.89	0.73
1:B:190:ALA:CB	1:B:199:ASP:HA	2.18	0.72
2:C:217:THR:CG2	2:C:313:ALA:HB1	2.18	0.72
5:F:494:ILE:O	5:F:498:LEU:HG	1.89	0.72
2:I:255:ILE:O	2:I:255:ILE:CG2	2.37	0.72
3:J:1234:VAL:HG12	3:J:1235:ASN:N	2.03	0.72
3:P:808:VAL:HG22	3:P:914:ALA:HA	1.70	0.72
3:D:146:VAL:CG2	3:D:158:GLN:HB3	2.19	0.72
3:D:600:ALA:O	3:D:604:MET:HG3	1.89	0.72
3:J:330:MET:SD	3:J:337:ARG:NH2	2.62	0.72
3:J:673:VAL:HG11	3:J:678:ARG:HB2	1.69	0.72
3:J:983:LYS:NZ	3:J:985:ILE:HD11	2.04	0.72
5:L:489:MET:HB3	5:L:490:PRO:HD2	1.71	0.72
2:O:137:VAL:C	2:O:138:ILE:HD13	2.08	0.72
3:P:575:GLY:HA2	3:P:578:ILE:HD12	1.71	0.72
6:1:18:DA:C2	7:2:46:DG:N2	2.58	0.72
2:C:186:PHE:HB3	2:C:194:LEU:HD11	1.69	0.72
3:J:1328:THR:O	3:J:1332:LEU:HG	1.89	0.72
5:R:132:CYS:SG	5:R:257:LYS:NZ	2.60	0.72
5:R:353:LEU:HB3	5:R:358:VAL:HG23	1.71	0.72
5:R:386:LEU:O	5:R:390:ILE:HG13	1.88	0.72
2:C:563:THR:HG23	2:C:680:LEU:HD11	1.71	0.72
3:D:121:PRO:O	3:D:122:SER:HB3	1.87	0.72
3:D:1321:SER:O	3:D:1324:SER:OG	2.08	0.72
2:C:1109:ILE:HG21	3:D:644:MET:HE1	1.70	0.72
3:J:1164:SER:O	3:J:1175:LEU:HD13	1.84	0.72
3:J:452:LEU:HB3	3:J:500:ILE:HG22	1.71	0.72
1:M:30:PRO:CB	1:M:198:LEU:HD13	2.19	0.72
3:P:703:THR:HG21	3:P:715:LYS:HZ1	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1269:ARG:NE	7:5:15:DT:OP1	2.17	0.72
2:C:83:GLN:O	2:C:87:ILE:HG13	1.90	0.72
3:J:964:LYS:HB2	3:J:977:SER:HB3	1.70	0.72
4:K:48:VAL:HA	4:K:51:LEU:HG	1.70	0.72
1:M:42:ALA:O	1:M:46:ILE:HD13	1.88	0.72
2:O:387:ASN:HA	2:O:391:SER:HB2	1.71	0.72
3:P:840:LEU:HD13	3:P:869:CYS:SG	2.30	0.72
3:P:908:ILE:N	3:P:908:ILE:CD1	2.53	0.72
1:A:69:SER:O	1:A:78:ILE:HG13	1.89	0.72
2:C:262:TYR:HE1	2:C:276:GLN:CD	1.92	0.72
2:I:155:VAL:HG22	2:I:405:PHE:CD2	2.24	0.72
2:I:1269:ARG:HA	3:J:346:ARG:HA	1.70	0.72
3:J:449:LEU:HD12	3:J:450:HIS:H	1.53	0.72
3:J:1179:PRO:CD	3:J:1184:ASP:O	2.38	0.72
3:J:396:ALA:HA	3:J:399:LYS:HD2	1.71	0.72
3:D:795:TYR:CD1	7:2:12:DG:C5'	2.71	0.72
1:B:158:ARG:HD3	1:B:172:LEU:CD1	2.20	0.72
2:I:901:LEU:HG	2:I:902:LEU:N	2.04	0.72
3:J:1323:ALA:HB1	3:J:1332:LEU:HD21	1.72	0.72
1:A:46:ILE:HG12	1:B:35:PHE:CE1	2.25	0.72
2:C:672:GLU:CG	2:C:1187:PHE:HA	2.19	0.72
2:C:522:SER:O	2:C:525:THR:HG22	1.90	0.72
2:C:548:ARG:NH1	3:D:788:LEU:HD11	2.04	0.72
1:G:224:LEU:CD2	1:H:228:LEU:HD11	2.20	0.72
1:G:232:VAL:HG22	1:H:221:ALA:CB	2.19	0.72
2:O:298:ALA:O	2:O:313:ALA:CB	2.37	0.72
1:A:35:PHE:CZ	1:B:50:SER:OG	2.42	0.72
1:B:79:LEU:O	1:B:83:LEU:HD23	1.90	0.72
2:C:153:PRO:HD2	2:C:400:VAL:HG11	1.72	0.72
3:J:120:LEU:HD23	3:J:121:PRO:HA	1.72	0.72
3:J:139:LEU:CD2	3:J:185:ILE:CD1	2.68	0.72
3:J:261:ALA:HA	5:L:505:ILE:O	1.90	0.72
1:M:9:LEU:HD21	1:M:198:LEU:HD21	1.71	0.72
2:O:1100:PRO:HB3	3:P:639:VAL:CG2	2.18	0.72
5:R:132:CYS:SG	5:R:257:LYS:CE	2.78	0.72
6:4:50:DT:H5'	6:4:51:DC:C6	2.24	0.71
1:B:82:LEU:HD22	1:B:173:VAL:HG21	1.71	0.71
2:C:1116:HIS:CE1	2:C:1226:THR:HG23	2.24	0.71
3:D:963:VAL:CG2	3:D:975:ILE:HG23	2.19	0.71
2:O:1282:GLY:O	3:P:1361:THR:OG1	2.06	0.71
1:B:57:THR:HG23	1:B:158:ARG:CZ	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:839:VAL:O	3:D:842:ARG:HG3	1.89	0.71
1:H:51:MET:SD	1:H:52:PRO:HD2	2.29	0.71
3:P:121:PRO:HB2	3:P:126:LEU:CD1	2.20	0.71
5:R:518:HIS:O	5:R:520:GLY:N	2.23	0.71
2:C:1101:LEU:N	2:C:1101:LEU:CD1	2.52	0.71
2:C:155:VAL:HG22	2:C:405:PHE:CD2	2.26	0.71
3:D:1134:ILE:CG2	3:D:1138:LEU:HD13	2.19	0.71
3:D:790:THR:HG22	3:D:931:THR:CB	2.21	0.71
2:I:1185:PRO:HD2	2:I:1189:GLY:HA2	1.70	0.71
2:I:189:ASP:CG	2:I:190:PRO:HD2	2.09	0.71
2:O:1314:GLN:HA	4:Q:28:ARG:NH2	2.06	0.71
3:P:334:LYS:O	3:P:339:ARG:HB2	1.90	0.71
3:P:423:LEU:HD23	3:P:423:LEU:N	2.05	0.71
2:C:525:THR:HG21	2:C:687:ARG:CD	2.20	0.71
2:C:743:PRO:HA	2:C:974:ARG:HH12	1.55	0.71
2:I:732:ILE:HD11	2:I:753:LEU:HD11	1.73	0.71
3:P:908:ILE:N	3:P:908:ILE:HD12	2.06	0.71
1:G:180:VAL:HG13	1:G:207:THR:HG22	1.72	0.71
1:H:39:LEU:O	1:H:43:LEU:HD12	1.91	0.71
2:I:1332:SER:HG	3:J:245:LEU:HD13	1.54	0.71
4:K:48:VAL:O	4:K:51:LEU:HB2	1.89	0.71
1:M:232:VAL:HG21	1:N:221:ALA:HB1	1.72	0.71
5:R:383:ASN:HD22	6:7:41:DT:H3	1.36	0.71
1:A:79:LEU:O	1:A:82:LEU:HB2	1.91	0.71
2:C:80:PHE:HB3	2:C:85:CYS:SG	2.31	0.71
1:G:228:LEU:HA	1:G:231:PHE:CE2	2.24	0.71
2:I:448:LEU:CD1	2:I:553:THR:O	2.38	0.71
3:J:1145:PHE:C	3:J:1309:ILE:HG13	2.10	0.71
3:J:885:VAL:O	3:J:1258:ARG:HD2	1.90	0.71
3:J:580:TRP:HZ3	3:J:583:VAL:HG11	1.52	0.71
6:7:42:DG:H4'	6:7:43:DT:OP2	1.91	0.71
1:G:155:ALA:O	1:G:159:ILE:HG13	1.90	0.71
2:C:1161:LEU:O	2:C:1164:PHE:HD2	1.74	0.71
3:D:646:ILE:CG1	3:D:764:ARG:HD3	2.20	0.71
2:I:498:ILE:O	2:I:502:VAL:HG23	1.90	0.71
2:I:720:ARG:HD3	2:I:736:VAL:HG11	1.72	0.71
5:L:310:GLU:OE1	5:L:355:ILE:HD13	1.91	0.71
1:M:42:ALA:HA	1:N:38:THR:CG2	2.20	0.71
2:O:92:TYR:H	2:O:137:VAL:HB	1.56	0.71
1:A:9:LEU:CD2	1:A:198:LEU:CD1	2.69	0.71
2:C:1124:ILE:HD13	2:C:1180:MET:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1075:ARG:HD3	3:J:1076:PRO:HD2	1.72	0.71
3:J:721:SER:O	3:J:725:MET:HG3	1.89	0.71
2:O:881:ASP:O	2:O:920:VAL:HG23	1.90	0.71
2:C:368:ARG:HD3	5:F:90:GLU:HG2	1.73	0.71
2:C:533:LEU:HD21	2:C:571:LEU:HD13	1.71	0.71
3:D:518:VAL:HA	3:D:547:ARG:NH1	2.05	0.71
2:I:424:ASP:O	2:I:428:VAL:HG23	1.91	0.71
2:O:325:LEU:HD22	2:O:330:HIS:HB2	1.73	0.71
2:O:402:ARG:NH2	2:O:417:SER:O	2.21	0.71
3:P:115:TRP:CH2	3:P:1329:THR:HA	2.26	0.71
3:P:42:GLU:OE1	5:R:451:ARG:HG2	1.91	0.71
5:R:87:VAL:O	5:R:91:ILE:HG13	1.90	0.71
2:C:1292:THR:HG23	2:C:1293:VAL:H	1.55	0.70
2:C:263:VAL:CG2	2:C:269:ILE:HD11	2.20	0.70
2:C:726:TYR:HB3	2:C:733:VAL:HG22	1.71	0.70
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.72	0.70
3:D:275:ARG:HH11	3:D:302:ALA:HB2	1.56	0.70
3:D:620:PHE:O	3:D:624:ILE:HG13	1.91	0.70
3:D:963:VAL:HG21	3:D:975:ILE:HG23	1.73	0.70
2:I:170:VAL:HG12	2:I:172:TYR:CZ	2.25	0.70
2:I:182:SER:HB3	2:I:199:ASP:OD2	1.91	0.70
3:J:58:CYS:SG	3:J:61:ILE:N	2.64	0.70
1:M:145:LYS:HD3	1:M:147:GLN:HE21	1.56	0.70
3:P:292:VAL:HG12	3:P:296:LYS:HE3	1.72	0.70
3:P:510:LEU:HD12	3:P:601:ILE:HD11	1.73	0.70
3:P:601:ILE:HA	3:P:604:MET:SD	2.31	0.70
3:P:930:LEU:CD1	3:P:1246:VAL:CG2	2.68	0.70
1:A:35:PHE:HZ	1:B:50:SER:OG	1.74	0.70
2:C:715:THR:HG22	2:C:786:GLY:H	1.56	0.70
3:D:416:ILE:CD1	3:D:441:LEU:HD21	2.15	0.70
1:G:230:ALA:CB	1:H:11:PRO:O	2.39	0.70
2:I:346:TYR:OH	2:I:436:ARG:HG3	1.91	0.70
3:J:736:GLN:CA	3:J:736:GLN:HE21	2.01	0.70
2:O:1077:SER:HA	3:P:356:THR:CG2	2.20	0.70
2:O:1273:MET:O	3:P:428:THR:HG21	1.91	0.70
3:P:421:VAL:HG23	3:P:439:PRO:HG2	1.73	0.70
3:P:828:GLY:HA2	3:P:994:SER:O	1.89	0.70
5:R:87:VAL:CG1	5:R:103:ARG:HD3	2.20	0.70
2:C:672:GLU:HG2	2:C:1187:PHE:HA	1.72	0.70
2:C:1272:GLU:OE2	3:D:1348:LYS:NZ	2.21	0.70
2:C:808:ASN:ND2	3:D:633:ALA:HB2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:493:LYS:O	5:F:497:VAL:HG23	1.91	0.70
3:J:60:ARG:HG3	3:J:89:GLY:O	1.91	0.70
3:J:673:VAL:HG13	3:J:678:ARG:HB2	1.73	0.70
3:J:288:PRO:HG2	5:L:380:VAL:HG11	1.72	0.70
2:O:1292:THR:HG23	2:O:1293:VAL:H	1.55	0.70
2:O:757:THR:O	2:O:833:ILE:HD12	1.90	0.70
2:O:878:THR:HG23	2:O:879:GLY:N	2.06	0.70
6:4:53:DG:H1'	6:4:54:DA:H5'	1.73	0.70
1:A:61:ILE:HG12	1:A:142:MET:HE1	1.72	0.70
2:C:78:PRO:HG3	2:C:129:LEU:HD12	1.73	0.70
2:C:176:ILE:HB	2:C:184:LEU:HB2	1.72	0.70
2:I:1323:PHE:CE2	3:J:1353:VAL:HA	2.27	0.70
3:J:121:PRO:O	3:J:122:SER:HB3	1.88	0.70
1:N:115:ILE:HD11	1:N:144:ILE:CD1	2.22	0.70
3:P:835:LEU:HD11	3:P:839:VAL:HG21	1.72	0.70
2:C:1061:GLN:CB	2:C:1062:PRO:HD2	2.17	0.70
2:I:445:ILE:HD12	2:I:546:GLU:OE1	1.91	0.70
2:I:82:VAL:HG23	2:I:83:GLN:N	2.07	0.70
3:J:1229:VAL:HG13	3:J:1230:THR:N	2.07	0.70
1:M:75:GLN:NE2	2:O:727:VAL:HB	2.05	0.70
3:P:1252:HIS:O	3:P:1255:VAL:HB	1.91	0.70
1:A:179:PRO:HA	1:A:208:ASN:HD21	1.55	0.70
1:B:97:GLU:OE2	1:B:145:LYS:HD3	1.91	0.70
1:B:156:SER:O	1:B:159:ILE:CG2	2.38	0.70
2:C:1184:THR:HG23	2:C:1184:THR:O	1.91	0.70
3:J:521:LYS:HB2	3:J:543:SER:HB2	1.71	0.70
3:J:518:VAL:HA	3:J:547:ARG:HH12	1.54	0.70
5:L:355:ILE:CG2	5:L:359:LYS:HE3	2.19	0.70
3:P:385:LEU:HD21	3:P:411:ILE:HD13	1.72	0.70
3:P:703:THR:HG21	3:P:715:LYS:CE	2.22	0.70
3:P:759:ILE:CD1	3:P:771:GLN:HB3	2.21	0.70
2:C:1121:ALA:HA	2:C:1124:ILE:HD12	1.72	0.70
2:C:725:GLN:O	2:C:773:LEU:HD11	1.92	0.70
2:C:75:LEU:HD21	2:C:94:ALA:CB	2.21	0.70
3:D:471:PRO:CB	3:D:476:ALA:HB1	2.21	0.70
1:A:183:ILE:HG12	1:A:183:ILE:O	1.91	0.70
2:C:883:LEU:HD11	2:C:920:VAL:HG22	1.72	0.70
2:C:936:ARG:NH1	5:F:495:ARG:HE	1.90	0.70
1:G:224:LEU:HG	1:G:225:ALA:N	2.07	0.70
2:I:1108:ASN:OD1	2:I:1108:ASN:N	2.23	0.70
2:I:1104:PRO:HG3	3:J:725:MET:SD	2.31	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:506:SER:O	5:L:519:LEU:HD23	1.92	0.70
2:O:178:PRO:CG	2:O:395:TYR:CZ	2.73	0.70
3:P:116:PHE:CE1	3:P:1333:THR:HG22	2.26	0.70
3:P:795:TYR:OH	3:P:1326:GLN:NE2	2.25	0.70
3:P:909:ILE:HD11	3:P:913:GLU:HB3	1.71	0.70
1:A:45:ARG:NH2	1:B:37:HIS:HB2	2.07	0.70
5:F:460:ILE:O	5:F:463:LEU:HB2	1.90	0.70
2:I:1287:LEU:O	2:I:1291:LEU:HG	1.92	0.70
2:I:1312:ASN:CG	2:I:1314:GLN:HB2	2.13	0.70
2:I:237:LEU:O	2:I:287:VAL:HG22	1.91	0.70
2:I:448:LEU:N	2:I:448:LEU:CD2	2.53	0.70
3:J:1145:PHE:HE1	3:J:1256:ILE:CD1	1.97	0.70
3:J:342:LEU:HB3	3:J:1352:ILE:HG12	1.74	0.70
3:J:698:MET:O	3:J:702:GLN:HB2	1.91	0.70
2:O:886:LYS:N	2:O:917:SER:OG	2.24	0.70
3:P:544:LEU:CD2	3:P:578:ILE:CD1	2.67	0.70
1:A:140:ILE:HD11	1:A:142:MET:CE	2.21	0.70
2:C:422:LYS:O	2:C:426:ILE:HG13	1.92	0.70
2:I:808:ASN:OD1	2:I:1216:ARG:NH1	2.23	0.70
2:I:886:LYS:CD	2:I:916:SER:HB2	2.22	0.70
3:J:425:ARG:HD2	3:J:457:TYR:HB3	1.74	0.70
1:M:45:ARG:HH12	2:O:1216:ARG:HA	1.56	0.70
2:O:155:VAL:HG22	2:O:405:PHE:HD2	1.55	0.70
3:P:1226:VAL:O	3:P:1229:VAL:CG1	2.39	0.70
2:C:1104:PRO:HG3	3:D:725:MET:HE2	1.72	0.69
2:C:499:SER:O	2:C:503:LYS:HD2	1.91	0.69
2:C:1105:SER:OG	3:D:731:ARG:HD2	1.91	0.69
2:I:1161:LEU:O	2:I:1163:THR:N	2.24	0.69
5:L:92:GLY:O	5:L:93:ARG:HG2	1.91	0.69
2:O:335:THR:HG22	2:O:336:LEU:H	1.57	0.69
2:O:901:LEU:O	2:O:905:ILE:HG13	1.92	0.69
2:O:964:LEU:HD11	2:O:1021:LEU:HD22	1.73	0.69
2:C:823:VAL:HG13	2:C:1059:ARG:HD3	1.74	0.69
2:C:1120:ALA:O	2:C:1124:ILE:HG13	1.92	0.69
2:C:153:PRO:HD2	2:C:400:VAL:CG1	2.22	0.69
2:C:559:CYS:SG	2:C:561:ILE:HG13	2.32	0.69
3:D:475:GLU:N	3:D:475:GLU:OE1	2.23	0.69
5:F:530:LEU:N	5:F:530:LEU:HD12	2.07	0.69
1:H:68:TYR:CD1	1:H:79:LEU:HD21	2.27	0.69
3:J:1286:LYS:O	3:J:1290:ARG:HG3	1.92	0.69
1:N:86:LYS:HE2	1:N:174:ASP:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:807:LEU:CD2	3:P:1255:VAL:HG13	2.23	0.69
3:P:242:LEU:HD12	3:P:243:PRO:CD	2.22	0.69
3:P:427:PRO:HD3	8:9:16:U:O2	1.91	0.69
5:R:493:LYS:NZ	6:7:30:DG:OP1	2.25	0.69
3:D:361:LEU:N	3:D:361:LEU:HD23	2.06	0.69
3:D:363:LEU:CD2	3:D:487:THR:HG22	2.22	0.69
3:D:734:ALA:HA	3:D:737:ILE:HD12	1.72	0.69
3:D:824:PRO:HD3	3:D:878:ASP:O	1.92	0.69
4:E:16:ARG:HH11	4:E:16:ARG:CG	2.04	0.69
2:I:237:LEU:HD11	2:I:289:VAL:HG13	1.74	0.69
3:J:22:ILE:HG13	3:J:1319:PHE:CZ	2.27	0.69
2:O:720:ARG:NH2	2:O:745:GLU:OE2	2.25	0.69
7:8:27:DA:H2'	7:8:27:DA:OP2	1.92	0.69
2:C:996:ARG:O	2:C:997:TRP:HD1	1.74	0.69
3:D:556:GLU:HB3	3:D:564:VAL:CB	2.14	0.69
2:I:806:PRO:CG	3:J:632:ALA:O	2.38	0.69
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.72	0.69
3:P:146:VAL:CG2	3:P:158:GLN:HB3	2.23	0.69
5:R:402:LEU:HA	5:R:405:ILE:HD12	1.72	0.69
1:A:228:LEU:HD22	1:B:224:LEU:HD12	1.74	0.69
2:C:558:VAL:HG13	2:C:559:CYS:O	1.92	0.69
2:I:434:ASP:HA	2:I:437:ASN:ND2	2.07	0.69
2:I:661:VAL:HG12	2:I:665:ALA:HB3	1.70	0.69
3:J:1179:PRO:HB2	3:J:1182:GLY:CA	2.23	0.69
3:J:800:LEU:O	3:J:803:VAL:HB	1.93	0.69
3:J:839:VAL:CG1	3:J:864:LEU:HD12	2.22	0.69
5:L:84:LEU:HG	5:L:107:THR:HG22	1.75	0.69
1:M:47:LEU:O	1:M:51:MET:CB	2.38	0.69
2:O:727:VAL:HG23	2:O:773:LEU:HD13	1.73	0.69
1:A:140:ILE:C	1:A:140:ILE:HD13	2.12	0.69
2:C:349:GLU:OE1	2:C:349:GLU:HA	1.92	0.69
3:D:268:LEU:CB	3:D:306:LEU:HD13	2.22	0.69
5:F:295:CYS:O	5:F:296:LYS:CB	2.41	0.69
2:I:146:VAL:HG13	2:I:529:ARG:O	1.91	0.69
3:J:115:TRP:HZ2	3:J:1329:THR:HG22	1.50	0.69
5:L:580:PHE:O	5:L:581:ASP:CB	2.41	0.69
1:M:184:ALA:HB2	2:O:1091:GLY:CA	2.19	0.69
2:O:797:GLY:HA3	2:O:1233:LEU:HD23	1.75	0.69
3:P:395:LYS:O	3:P:399:LYS:HG3	1.91	0.69
5:R:451:ARG:NH2	6:7:32:DA:P	2.65	0.69
3:P:46:TYR:OH	6:7:31:DT:OP1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1017:GLN:O	2:C:1021:LEU:HG	1.93	0.69
2:C:1289:GLU:HA	2:C:1293:VAL:HG22	1.74	0.69
2:C:179:TYR:HB3	2:C:396:ASP:O	1.93	0.69
2:C:694:ARG:O	2:C:798:GLN:NE2	2.24	0.69
1:G:166:ARG:HD2	1:G:170:ARG:HG2	1.74	0.69
3:J:509:GLY:O	3:J:513:MET:HG3	1.93	0.69
2:O:1127:LYS:NZ	2:O:1203:ASP:OD2	2.18	0.69
2:O:1295:SER:O	2:O:1301:ARG:NH1	2.26	0.69
2:O:1305:TYR:CD2	5:R:531:PRO:HB2	2.28	0.69
2:C:183:TRP:HZ3	6:1:47:DC:N4	1.91	0.69
3:D:1078:LEU:HD13	3:D:1121:LEU:HD22	1.73	0.69
3:D:704:GLU:O	3:D:704:GLU:HG3	1.93	0.69
3:D:511:TYR:OH	3:D:727:ASP:OD2	2.08	0.69
2:I:700:VAL:HG13	2:I:1117:LEU:HD23	1.74	0.69
2:I:1200:LYS:HE3	2:I:1206:THR:CG2	2.23	0.69
2:I:689:ALA:CB	2:I:1233:LEU:HD13	2.23	0.69
3:J:1158:GLU:HA	3:J:1223:LEU:HD11	1.75	0.69
3:J:114:ILE:HD13	3:J:308:ASP:HB3	1.73	0.69
3:J:574:VAL:O	3:J:578:ILE:HG13	1.93	0.69
3:J:739:GLN:HG2	3:J:744:ARG:HG3	1.75	0.69
2:O:165:HIS:NE2	2:O:190:PRO:HB3	2.08	0.69
2:O:425:ILE:O	2:O:429:MET:HG3	1.91	0.69
3:P:849:LEU:CD1	3:P:857:LEU:HD23	2.23	0.69
5:R:580:PHE:O	5:R:581:ASP:HB2	1.91	0.69
7:5:18:DT:H2'	7:5:19:DA:H5''	1.73	0.69
3:D:77:ARG:NH2	5:F:570:ASP:OD1	2.26	0.69
3:P:1251:LYS:O	3:P:1255:VAL:HG23	1.93	0.69
2:I:1235:LEU:CD2	2:I:1235:LEU:N	2.47	0.69
2:I:1246:ARG:HD2	2:I:1265:PHE:O	1.93	0.69
2:I:1325:VAL:O	2:I:1329:GLU:HG3	1.92	0.69
3:J:1220:ILE:CG2	3:J:1224:ARG:HD2	2.23	0.69
3:J:1145:PHE:HZ	3:J:1253:ILE:HG23	1.58	0.69
3:J:320:ASN:OD1	3:J:320:ASN:N	2.26	0.69
5:L:88:GLU:HG2	5:L:91:ILE:HD12	1.75	0.69
3:P:233:LYS:HB3	3:P:236:TRP:CE2	2.27	0.69
6:1:51:DC:OP2	6:1:51:DC:H2'	1.92	0.69
1:A:9:LEU:CD2	1:A:198:LEU:HD13	2.23	0.69
2:C:1165:SER:OG	2:C:1167:GLU:HG3	1.93	0.69
3:D:433:GLY:O	3:D:457:TYR:HE1	1.76	0.69
5:F:511:ILE:CG2	5:F:519:LEU:HD13	2.19	0.69
2:I:170:VAL:CG2	3:J:1065:ALA:O	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:806:ASP:O	3:J:808:VAL:HG23	1.93	0.69
3:J:972:LYS:HB3	3:J:1002:VAL:CG1	2.20	0.69
3:P:797:THR:O	3:P:801:VAL:HG23	1.91	0.69
3:P:895:CYS:SG	3:P:898:CYS:N	2.59	0.69
3:D:244:VAL:HG13	3:D:269:TYR:CE1	2.28	0.68
3:D:492:SER:O	3:D:495:ASN:O	2.11	0.68
3:D:572:THR:HG1	3:D:576:ARG:HB2	1.57	0.68
1:G:190:ALA:H	1:G:199:ASP:HA	1.57	0.68
1:H:57:THR:HG22	1:H:58:GLU:HG3	1.73	0.68
2:I:878:THR:CG2	2:I:879:GLY:N	2.56	0.68
3:J:1163:VAL:HG12	3:J:1164:SER:N	2.08	0.68
3:J:24:LEU:HD12	3:J:232:ASN:HB3	1.75	0.68
3:J:909:ILE:CG1	3:J:910:ASN:N	2.56	0.68
5:L:399:LEU:O	5:L:400:GLN:HB2	1.92	0.68
3:P:212:THR:HG22	3:P:215:LYS:HZ2	1.56	0.68
3:P:288:PRO:O	3:P:292:VAL:HG23	1.94	0.68
3:P:251:PRO:O	5:R:507:MET:HE3	1.93	0.68
3:D:364:HIS:HB3	3:D:487:THR:HG23	1.75	0.68
1:G:78:ILE:O	1:G:82:LEU:HG	1.93	0.68
2:I:593:LYS:CE	2:I:595:THR:OG1	2.41	0.68
2:O:349:GLU:O	2:O:353:VAL:HG23	1.92	0.68
2:O:1282:GLY:CA	4:Q:17:PHE:HE1	1.97	0.68
1:B:191:ARG:HG3	1:B:196:THR:HG22	1.75	0.68
2:C:9:LYS:HG2	2:C:1171:ARG:HD3	1.75	0.68
2:C:1304:MET:O	2:C:1308:ILE:HG13	1.94	0.68
2:C:149:LEU:HD21	2:C:451:ARG:NE	2.09	0.68
3:D:923:ILE:HD11	3:D:1252:HIS:HB3	1.75	0.68
5:F:583:THR:HG21	5:F:586:ARG:HB3	1.75	0.68
5:L:295:CYS:O	5:L:296:LYS:CB	2.40	0.68
2:O:1109:ILE:HD11	3:P:740:LEU:CD2	2.21	0.68
2:O:539:THR:CG2	2:O:540:ARG:H	2.05	0.68
2:O:10:ARG:CZ	2:O:697:LYS:HD3	2.23	0.68
3:P:84:ILE:O	3:P:84:ILE:CG2	2.40	0.68
5:R:540:LEU:O	5:R:544:THR:HG23	1.93	0.68
2:C:1117:LEU:CD2	2:C:1182:ILE:HD13	2.22	0.68
2:C:297:VAL:HG13	2:C:317:LEU:HD21	1.74	0.68
3:D:974:VAL:HG11	3:D:1028:ILE:HG21	1.75	0.68
2:I:559:CYS:SG	2:I:661:VAL:HG13	2.33	0.68
2:I:921:PRO:HB2	2:I:924:VAL:HB	1.73	0.68
1:M:36:GLY:O	1:M:201:LEU:HD11	1.93	0.68
3:P:1179:PRO:HG2	3:P:1184:ASP:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:433:GLY:O	3:P:457:TYR:HE1	1.76	0.68
3:P:492:SER:O	3:P:495:ASN:O	2.12	0.68
3:P:930:LEU:HD11	3:P:1246:VAL:HG21	1.75	0.68
5:R:454:VAL:CG2	5:R:455:HIS:H	2.06	0.68
5:F:451:ARG:NH2	6:1:32:DA:OP1	2.26	0.68
2:C:521:LEU:CD2	2:C:686:GLN:HB3	2.24	0.68
4:E:45:LYS:O	4:E:49:ILE:HG13	1.94	0.68
3:J:471:PRO:HB2	3:J:476:ALA:HB1	1.75	0.68
5:L:506:SER:O	5:L:519:LEU:CD2	2.42	0.68
2:O:428:VAL:HG13	2:O:429:MET:N	2.09	0.68
3:P:146:VAL:HG21	3:P:158:GLN:HB3	1.74	0.68
5:F:449:THR:OG1	5:F:504:PRO:HG3	1.94	0.68
3:J:795:TYR:OH	3:J:1326:GLN:NE2	2.24	0.68
3:J:298:MET:SD	5:L:406:GLN:HG3	2.34	0.68
1:M:59:VAL:O	1:M:171:LEU:HG	1.94	0.68
1:N:82:LEU:CD2	1:N:173:VAL:HG22	2.24	0.68
2:O:692:THR:OG1	2:O:798:GLN:NE2	2.27	0.68
5:R:386:LEU:HD13	6:7:41:DT:O4'	1.94	0.68
2:I:1243:MET:SD	3:J:445:LYS:HB3	2.33	0.68
3:J:478:LEU:HB3	4:K:20:VAL:HG22	1.75	0.68
3:P:1138:LEU:O	3:P:1141:VAL:HB	1.93	0.68
3:P:501:VAL:HG12	3:P:502:PRO:HD2	1.75	0.68
5:R:592:ALA:HA	5:R:595:LEU:HD12	1.76	0.68
1:A:48:LEU:HD11	1:A:183:ILE:HG22	1.75	0.68
1:B:56:VAL:HG13	1:B:144:ILE:CG2	2.24	0.68
1:B:85:LEU:HD13	1:B:144:ILE:CD1	2.24	0.68
2:C:960:LEU:HD13	2:C:1029:LEU:HD12	1.74	0.68
2:C:4:SER:O	2:C:8:LYS:HG3	1.93	0.68
3:D:114:ILE:CG2	3:D:307:LEU:HD12	2.24	0.68
5:F:385:ARG:O	5:F:388:ILE:HG22	1.93	0.68
2:I:539:THR:HG23	2:I:540:ARG:H	1.59	0.68
3:J:161:THR:N	3:J:164:GLN:OE1	2.21	0.68
3:J:147:ILE:HG13	3:J:178:ALA:HA	1.75	0.68
3:J:343:LEU:HD11	3:J:1348:LYS:HD3	1.76	0.68
2:O:120:GLN:CD	2:O:490:GLN:HB3	2.14	0.68
3:P:146:VAL:HG21	3:P:154:LEU:CD1	2.24	0.68
6:7:54:DA:H2''	6:7:55:DC:C6	2.28	0.68
2:C:414:ILE:HG13	2:C:415:GLU:N	2.09	0.68
2:C:667:LEU:HD22	2:C:705:GLU:OE2	1.93	0.68
3:D:795:TYR:OH	3:D:1326:GLN:NE2	2.26	0.68
3:D:363:LEU:CD2	3:D:618:VAL:HG13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:363:LEU:CG	3:D:487:THR:HG22	2.24	0.68
3:J:115:TRP:HE3	3:J:1333:THR:HG23	1.49	0.68
3:J:242:LEU:CD1	3:J:243:PRO:HD2	2.10	0.68
2:O:1289:GLU:OE2	3:P:472:LEU:HB2	1.94	0.68
3:P:796:LEU:O	3:P:800:LEU:HG	1.94	0.68
3:P:398:LYS:NZ	5:R:532:LEU:CG	2.56	0.68
5:L:585:GLU:CG	7:5:48:DC:H41	2.07	0.68
3:D:1286:LYS:HA	3:D:1289:ASN:HD22	1.57	0.68
3:D:261:ALA:HB1	5:F:507:MET:HA	1.74	0.68
2:I:519:ASN:OD1	2:I:522:SER:HB2	1.94	0.68
2:I:75:LEU:CD2	2:I:127:ILE:HD12	2.24	0.68
3:J:1284:ARG:HA	3:J:1287:ILE:HG13	1.76	0.68
3:J:797:THR:HG21	3:J:924:GLY:HA3	1.74	0.68
3:J:872:LEU:HD23	3:J:872:LEU:N	2.09	0.68
3:J:899:TYR:CE1	3:J:915:ILE:HG21	2.29	0.68
2:O:519:ASN:OD1	2:O:522:SER:HB2	1.94	0.68
2:C:1117:LEU:CG	2:C:1182:ILE:HD13	2.24	0.67
3:D:107:LEU:HD21	3:D:242:LEU:CB	2.24	0.67
2:I:36:GLN:HA	2:I:39:ILE:HD12	1.75	0.67
3:J:154:LEU:HD13	3:J:176:PHE:HE1	1.59	0.67
3:J:582:ILE:HD13	3:J:582:ILE:N	2.09	0.67
1:N:47:LEU:CD1	1:N:183:ILE:HD12	2.25	0.67
3:D:553:THR:HA	3:D:566:LYS:O	1.94	0.67
3:D:997:VAL:HG13	3:D:1020:TRP:CZ3	2.29	0.67
2:I:1312:ASN:OD1	2:I:1314:GLN:HB2	1.94	0.67
5:R:132:CYS:SG	5:R:257:LYS:HE2	2.34	0.67
1:A:151:GLY:O	1:A:177:TYR:HB2	1.93	0.67
1:A:232:VAL:HA	1:B:218:ARG:HG2	1.76	0.67
3:D:1161:GLY:CA	3:D:1180:VAL:HG22	2.24	0.67
3:D:923:ILE:HD11	3:D:1252:HIS:CB	2.25	0.67
2:I:690:VAL:HG12	2:I:691:PRO:HD2	1.76	0.67
2:I:821:ARG:HB3	2:I:825:GLU:OE2	1.93	0.67
2:I:873:ILE:HD11	2:I:944:ARG:HH12	1.58	0.67
2:O:870:ILE:CG2	2:O:944:ARG:HE	2.05	0.67
2:O:8:LYS:HD3	2:O:1168:GLU:OE1	1.94	0.67
3:P:1357:ILE:HD12	3:P:1357:ILE:H	1.59	0.67
1:A:228:LEU:HD13	1:B:224:LEU:HD11	1.77	0.67
2:C:369:MET:HG3	2:C:370:MET:N	2.09	0.67
5:F:115:GLY:O	5:F:118:ASP:HB2	1.94	0.67
2:I:539:THR:CG2	2:I:540:ARG:H	2.08	0.67
3:J:1226:VAL:C	3:J:1229:VAL:HG12	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:190:ALA:H	1:N:199:ASP:HA	1.59	0.67
2:O:870:ILE:HG21	2:O:944:ARG:NE	2.08	0.67
2:O:871:VAL:HG11	2:O:928:VAL:HG21	1.77	0.67
3:P:915:ILE:O	3:P:918:ILE:HB	1.95	0.67
1:A:140:ILE:HD11	1:A:142:MET:HE2	1.77	0.67
2:C:686:GLN:HE21	2:C:1069:ARG:HG2	1.59	0.67
3:D:826:ILE:HG22	3:D:826:ILE:O	1.95	0.67
5:F:520:GLY:HA2	5:F:523:ILE:CD1	2.24	0.67
5:F:554:ARG:O	5:F:558:VAL:HG23	1.94	0.67
5:F:580:PHE:O	5:F:581:ASP:CB	2.42	0.67
2:I:1142:ARG:HG3	2:I:1161:LEU:HD23	1.76	0.67
2:I:1270:PHE:HB2	3:J:347:VAL:CG2	2.25	0.67
2:I:344:GLY:O	2:I:346:TYR:CD2	2.48	0.67
1:G:75:GLN:O	2:I:729:ALA:HB2	1.93	0.67
3:J:1179:PRO:HD3	3:J:1184:ASP:O	1.93	0.67
3:J:759:ILE:HG23	3:J:771:GLN:NE2	2.09	0.67
3:P:325:LYS:HE2	3:P:330:MET:HG2	1.77	0.67
3:D:740:LEU:N	3:D:740:LEU:CD2	2.52	0.67
5:F:135:ALA:HB2	5:F:256:PHE:CG	2.30	0.67
2:I:1098:LEU:HD23	2:I:1099:ASN:H	1.60	0.67
2:I:689:ALA:HB2	2:I:1233:LEU:HD13	1.75	0.67
2:I:1273:MET:SD	3:J:428:THR:HB	2.34	0.67
2:I:387:ASN:HA	2:I:391:SER:HB2	1.76	0.67
3:J:1272:SER:HB3	3:J:1274:PHE:CE2	2.29	0.67
3:J:537:TYR:CZ	3:J:544:LEU:HD11	2.30	0.67
3:J:645:VAL:HG21	3:J:701:LEU:HD13	1.77	0.67
3:P:53:ARG:O	3:P:58:CYS:HB2	1.93	0.67
5:R:493:LYS:O	5:R:497:VAL:HG23	1.95	0.67
2:C:1101:LEU:HD12	2:C:1101:LEU:N	2.09	0.67
2:C:851:THR:HG22	2:C:852:ALA:N	2.10	0.67
5:F:110:LEU:N	5:F:110:LEU:HD12	2.08	0.67
2:I:157:PHE:HB2	2:I:443:ASP:OD1	1.94	0.67
3:J:492:SER:O	3:J:495:ASN:O	2.13	0.67
2:O:1257:GLN:HB3	2:O:1258:PRO:HD2	1.77	0.67
2:O:839:VAL:HG13	2:O:1046:VAL:HG13	1.77	0.67
3:P:339:ARG:NH1	3:P:798:ARG:NH2	2.42	0.67
3:P:885:VAL:CG1	3:P:894:VAL:HG11	2.24	0.67
3:P:797:THR:CG2	3:P:924:GLY:HA3	2.24	0.67
5:L:464:ASN:OD1	7:5:25:DA:N6	2.27	0.67
7:8:26:DT:H2"	7:8:27:DA:OP1	1.92	0.67
3:D:233:LYS:HG3	3:D:234:PRO:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:762:ASN:OD1	3:D:764:ARG:HB3	1.95	0.67
3:J:1145:PHE:O	3:J:1309:ILE:CG1	2.35	0.67
3:J:1267:VAL:O	3:J:1268:ASN:HB2	1.94	0.67
5:L:84:LEU:CG	5:L:107:THR:CG2	2.72	0.67
3:P:744:ARG:HB3	3:P:759:ILE:HG21	1.77	0.67
1:A:129:VAL:CG1	1:A:132:HIS:CE1	2.76	0.67
1:A:57:THR:HG21	1:A:147:GLN:NE2	2.10	0.67
2:I:232:ILE:O	2:I:233:ARG:HG3	1.95	0.67
1:M:67:GLU:C	1:M:78:ILE:HD12	2.15	0.67
2:O:452:ARG:NH2	2:O:458:GLU:OE1	2.28	0.67
2:O:92:TYR:HB2	2:O:137:VAL:CB	2.25	0.67
3:P:1146:GLU:CG	3:P:1309:ILE:HD12	2.23	0.67
3:P:339:ARG:NH1	3:P:798:ARG:HH22	1.92	0.67
2:C:871:VAL:CG2	2:C:883:LEU:HA	2.25	0.67
3:D:609:TYR:CA	3:D:617:THR:HG21	2.25	0.67
4:E:16:ARG:HH11	4:E:16:ARG:HG3	1.58	0.67
2:I:1305:TYR:OH	3:J:398:LYS:NZ	2.28	0.67
3:J:43:THR:CG2	5:L:449:THR:HG22	2.25	0.67
3:P:143:SER:OG	3:P:159:ILE:CG2	2.43	0.67
3:P:306:LEU:O	3:P:326:SER:HB2	1.94	0.67
2:O:1294:LYS:HB3	3:P:347:VAL:HG13	1.77	0.67
2:C:12:ARG:NH1	2:C:1182:ILE:O	2.27	0.66
3:D:370:LYS:HE2	3:D:443:GLU:HA	1.78	0.66
5:F:554:ARG:HG3	5:F:555:GLU:N	2.10	0.66
2:I:1109:ILE:HD11	3:J:740:LEU:CD1	2.25	0.66
2:O:878:THR:HG22	2:O:879:GLY:N	2.08	0.66
2:C:280:ASP:O	2:C:281:ASP:HB2	1.95	0.66
3:D:482:ALA:O	3:D:488:ASN:ND2	2.28	0.66
1:G:230:ALA:HB2	1:H:11:PRO:O	1.95	0.66
2:I:100:LEU:HD12	2:I:122:VAL:HB	1.75	0.66
2:I:169:LYS:HG2	2:I:171:LEU:HD21	1.75	0.66
2:I:302:ILE:HG22	2:I:309:LEU:HD23	1.76	0.66
2:I:964:LEU:HD13	2:I:1025:PHE:HB2	1.76	0.66
3:J:537:TYR:CD2	3:J:544:LEU:HD21	2.30	0.66
2:I:1109:ILE:HD11	3:J:740:LEU:HD13	1.75	0.66
3:J:952:VAL:CG1	3:J:984:LEU:HD13	2.25	0.66
3:P:1286:LYS:O	3:P:1289:ASN:HB2	1.95	0.66
3:P:1146:GLU:OE1	3:P:1309:ILE:HB	1.95	0.66
3:P:385:LEU:HD21	3:P:411:ILE:CD1	2.25	0.66
5:R:415:ALA:HB2	5:R:434:TRP:HB2	1.77	0.66
3:D:347:VAL:HG12	3:D:348:ASP:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:910:ASN:N	3:D:910:ASN:OD1	2.28	0.66
5:F:353:LEU:HB3	5:F:358:VAL:CG2	2.25	0.66
2:I:182:SER:HA	2:I:183:TRP:CE3	2.30	0.66
5:L:392:LYS:HA	5:L:395:THR:HG23	1.77	0.66
1:N:81:ILE:HD13	1:N:131:CYS:SG	2.35	0.66
3:P:1138:LEU:CG	3:P:1139:PRO:HD3	2.25	0.66
3:P:909:ILE:HG12	3:P:910:ASN:H	1.59	0.66
1:B:38:THR:HB	1:B:39:LEU:HD23	1.76	0.66
2:C:1272:GLU:O	2:C:1275:VAL:HB	1.94	0.66
1:G:234:LEU:HG	1:H:13:LEU:HD23	1.78	0.66
3:J:886:VAL:HA	3:J:1258:ARG:HG3	1.78	0.66
3:J:209:ASN:HB2	3:J:214:ARG:HD3	1.78	0.66
2:O:1294:LYS:HD3	3:P:347:VAL:HG12	1.70	0.66
3:P:1145:PHE:HB2	3:P:1309:ILE:HD11	1.78	0.66
3:D:1159:ILE:HG22	3:D:1160:SER:H	1.61	0.66
3:D:1318:SER:OG	3:D:1321:SER:CB	2.36	0.66
5:F:299:LYS:O	5:F:302:PHE:HB3	1.95	0.66
2:I:962:GLU:O	2:I:966:ILE:HG13	1.94	0.66
3:J:647:PRO:HA	3:J:700:ASN:HD22	1.60	0.66
3:J:868:TRP:O	3:J:872:LEU:CD2	2.43	0.66
3:J:918:ILE:HG22	3:J:919:ALA:H	1.61	0.66
4:K:50:ALA:O	4:K:54:ILE:HG13	1.95	0.66
5:L:84:LEU:CG	5:L:107:THR:HG21	2.24	0.66
5:L:532:LEU:H	5:L:532:LEU:HD12	1.59	0.66
1:M:45:ARG:HD3	1:N:38:THR:HG23	1.76	0.66
2:O:144:VAL:HG23	2:O:515:MET:HB2	1.78	0.66
3:P:485:MET:SD	3:P:486:SER:N	2.69	0.66
2:C:262:TYR:CE1	2:C:276:GLN:CD	2.69	0.66
2:C:890:LYS:HG2	2:C:891:GLY:H	1.58	0.66
3:D:360:TYR:CE1	3:D:361:LEU:HD21	2.31	0.66
3:D:664:ILE:HG12	3:D:681:LYS:HZ2	1.59	0.66
1:M:28:LEU:CD1	1:N:231:PHE:CE1	2.77	0.66
5:L:429:THR:OG1	6:4:39:DA:H8	1.71	0.66
5:R:451:ARG:NH2	6:7:32:DA:OP2	2.28	0.66
1:B:155:ALA:HA	1:B:158:ARG:HD2	1.77	0.66
2:C:997:TRP:HA	2:C:1000:LEU:HD13	1.77	0.66
5:F:91:ILE:HD11	5:F:103:ARG:NH1	2.11	0.66
4:K:25:ARG:HD3	4:K:64:LEU:HD13	1.78	0.66
5:L:374:ARG:HH11	5:L:374:ARG:HB2	1.60	0.66
2:O:61:SER:HB2	2:O:66:SER:OG	1.96	0.66
3:P:1271:SER:HB3	3:P:1297:LYS:NZ	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1333:THR:O	3:P:1337:VAL:HG23	1.96	0.66
2:C:831:ILE:N	2:C:831:ILE:HD12	2.09	0.66
3:D:1078:LEU:HD12	3:D:1121:LEU:HB3	1.76	0.66
3:D:803:VAL:HG23	3:D:1313:SER:OG	1.95	0.66
3:D:544:LEU:HD21	3:D:578:ILE:HD11	1.76	0.66
3:J:128:LEU:HD13	3:J:188:LEU:HD23	1.78	0.66
3:J:247:PRO:HA	3:J:250:ARG:CG	2.25	0.66
5:L:514:ASP:O	5:L:516:ASP:N	2.28	0.66
2:O:168:GLY:O	3:P:1065:ALA:CB	2.44	0.66
3:P:272:VAL:HG22	3:P:302:ALA:HB1	1.77	0.66
3:P:403:ARG:O	3:P:404:GLU:HB2	1.94	0.66
2:C:1275:VAL:O	2:C:1279:GLU:HG3	1.96	0.66
3:D:846:GLU:HA	3:D:860:ARG:HD3	1.78	0.66
1:G:47:LEU:O	1:G:51:MET:HG2	1.96	0.66
1:H:48:LEU:HD21	1:H:183:ILE:HG22	1.77	0.66
2:I:1058:ARG:HD3	2:I:1238:LEU:HD13	1.77	0.66
2:I:148:GLN:HB2	2:I:511:LEU:HD11	1.76	0.66
2:I:616:ILE:HG12	2:I:652:TYR:HB2	1.78	0.66
3:J:647:PRO:HA	3:J:700:ASN:ND2	2.10	0.66
3:J:845:ALA:O	3:J:846:GLU:CB	2.43	0.66
3:P:146:VAL:HG12	3:P:155:GLU:O	1.95	0.66
2:O:1337:ILE:HD12	3:P:22:ILE:HD11	1.77	0.66
3:P:885:VAL:HG12	3:P:894:VAL:CG1	2.25	0.66
1:A:41:ASN:O	1:A:45:ARG:HG3	1.95	0.66
1:G:69:SER:O	1:G:78:ILE:HG13	1.96	0.66
2:I:363:LEU:HD21	2:I:385:PHE:HB2	1.78	0.66
3:J:1101:LEU:CD2	3:J:1122:ALA:CB	2.74	0.66
3:D:227:PHE:HE1	3:D:234:PRO:HD3	1.60	0.65
2:C:1077:SER:HA	3:D:356:THR:HG23	1.77	0.65
3:D:363:LEU:HD23	3:D:618:VAL:HG13	1.78	0.65
3:D:645:VAL:CG2	3:D:701:LEU:CD1	2.53	0.65
3:D:946:ALA:O	3:D:948:SER:N	2.28	0.65
1:G:10:LYS:HE2	1:H:226:GLU:HG3	1.78	0.65
3:J:1221:LEU:HD22	3:J:1306:LEU:HB2	1.77	0.65
3:J:899:TYR:O	3:J:1251:LYS:NZ	2.23	0.65
3:P:720:ASN:O	3:P:724:MET:HG3	1.96	0.65
5:R:87:VAL:HG11	5:R:103:ARG:CD	2.25	0.65
1:A:48:LEU:CD2	1:A:180:VAL:HB	2.26	0.65
2:C:1287:LEU:HD23	3:D:1357:ILE:CD1	2.15	0.65
2:C:335:THR:HG22	2:C:336:LEU:N	2.10	0.65
2:C:46:GLN:CG	2:C:46:GLN:O	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:58:CYS:SG	3:D:61:ILE:N	2.69	0.65
5:F:135:ALA:CB	5:F:256:PHE:HB2	2.26	0.65
1:G:106:GLY:O	1:G:133:LEU:HB3	1.96	0.65
1:H:191:ARG:HG3	1:H:196:THR:HA	1.77	0.65
2:I:726:TYR:HB3	2:I:733:VAL:HG22	1.79	0.65
2:O:700:VAL:HG12	2:O:1117:LEU:HD23	1.78	0.65
3:P:1233:ILE:O	3:P:1237:VAL:HG23	1.97	0.65
2:C:1232:MET:HA	2:C:1232:MET:HE2	1.79	0.65
2:I:1273:MET:O	3:J:428:THR:HG21	1.96	0.65
2:I:1291:LEU:O	3:J:345:LYS:NZ	2.29	0.65
3:J:1172:LYS:HD3	3:J:1189:MET:CE	2.25	0.65
1:M:69:SER:O	1:M:78:ILE:CD1	2.43	0.65
2:O:10:ARG:NH2	2:O:790:ASP:OD2	2.29	0.65
2:O:1278:LEU:HD22	2:O:1283:ALA:CB	2.24	0.65
2:O:1304:MET:O	2:O:1308:ILE:HG13	1.95	0.65
1:A:69:SER:O	1:A:78:ILE:CD1	2.44	0.65
1:B:59:VAL:HG13	1:B:144:ILE:HG12	1.78	0.65
2:C:595:THR:HG22	2:C:596:ASP:OD1	1.96	0.65
2:C:797:GLY:HA3	2:C:1233:LEU:CD2	2.27	0.65
3:D:58:CYS:SG	3:D:60:ARG:N	2.69	0.65
5:F:402:LEU:HA	5:F:405:ILE:HD12	1.77	0.65
2:I:1275:VAL:HG21	3:J:343:LEU:O	1.96	0.65
2:I:82:VAL:CG2	2:I:83:GLN:N	2.59	0.65
3:J:1263:LYS:HZ2	3:J:1280:VAL:HA	1.59	0.65
1:N:61:ILE:HD12	1:N:64:VAL:HG11	1.78	0.65
1:B:47:LEU:CD1	1:B:183:ILE:CD1	2.72	0.65
1:B:198:LEU:CD1	1:B:198:LEU:N	2.59	0.65
1:B:44:ARG:NH1	3:D:538:ARG:HD3	2.10	0.65
2:I:249:GLU:O	2:I:269:ILE:HG12	1.96	0.65
3:J:1032:SER:OG	3:J:1117:SER:HB3	1.95	0.65
3:J:1194:ARG:NH1	3:J:1212:ASP:O	2.29	0.65
3:P:377:PHE:O	3:P:381:ILE:HG13	1.96	0.65
5:R:370:ALA:HB1	5:R:374:ARG:HH22	1.61	0.65
2:C:251:ALA:HB2	2:C:263:VAL:CG1	2.27	0.65
2:C:167:SER:HA	3:D:1064:SER:CB	2.26	0.65
1:G:61:ILE:HB	1:G:64:VAL:HB	1.78	0.65
1:M:75:GLN:O	2:O:729:ALA:HB2	1.97	0.65
2:O:732:ILE:HD11	2:O:769:PRO:HB3	1.79	0.65
3:P:339:ARG:CZ	3:P:798:ARG:HH22	2.10	0.65
3:P:816:THR:HG21	3:P:818:GLU:HG3	1.77	0.65
3:P:959:LYS:NZ	3:P:985:ILE:HD11	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1292:THR:HG23	2:I:1293:VAL:N	2.06	0.65
3:J:294:ASN:HD22	5:L:406:GLN:HE21	1.45	0.65
2:C:1143:GLU:OE1	2:C:1144:PHE:N	2.30	0.65
4:E:44:ASP:HB3	4:E:48:VAL:HB	1.79	0.65
2:I:319:LEU:HA	2:I:322:LEU:HD12	1.78	0.65
2:I:353:VAL:O	2:I:355:PRO:HD3	1.96	0.65
5:L:573:LEU:CD2	7:5:45:DT:H2'	2.26	0.65
2:O:1273:MET:CG	7:8:14:DC:H4'	2.26	0.65
2:O:1304:MET:CE	2:O:1308:ILE:HD11	2.27	0.65
2:O:1326:LEU:O	2:O:1330:ILE:HG13	1.96	0.65
2:O:888:THR:O	2:O:913:VAL:HG13	1.97	0.65
3:P:111:THR:HG23	3:P:112:ALA:N	2.11	0.65
3:P:886:VAL:CG2	3:P:1254:GLU:O	2.44	0.65
3:P:1286:LYS:HA	3:P:1289:ASN:ND2	2.11	0.65
3:P:128:LEU:HD11	3:P:189:LEU:HD21	1.78	0.65
5:R:459:THR:O	5:R:463:LEU:HG	1.97	0.65
1:B:156:SER:C	1:B:159:ILE:HG22	2.16	0.65
3:D:1351:VAL:HG12	3:D:1352:ILE:N	2.11	0.65
3:D:186:GLN:HA	3:D:189:LEU:HD12	1.77	0.65
2:I:1044:PRO:HG3	5:L:498:LEU:HD22	1.76	0.65
2:I:1241:ASP:HA	2:I:1262:LYS:NZ	2.12	0.65
3:J:22:ILE:CD1	3:J:1319:PHE:CE1	2.80	0.65
3:J:373:ALA:HA	3:J:376:LEU:HG	1.79	0.65
2:O:550:VAL:HG22	3:P:780:ARG:NE	2.12	0.65
3:P:265:LEU:O	3:P:269:TYR:HD2	1.79	0.65
3:P:395:LYS:HG2	3:P:399:LYS:HE3	1.79	0.65
3:P:423:LEU:CB	3:P:466:MET:CE	2.74	0.65
3:P:572:THR:OG1	3:P:576:ARG:HB2	1.97	0.65
5:R:598:LEU:O	5:R:604:SER:OG	2.15	0.65
2:C:927:THR:N	2:C:1055:ALA:O	2.27	0.65
2:C:811:ASN:ND2	2:C:1099:ASN:HA	2.11	0.65
1:A:75:GLN:NE2	2:C:727:VAL:HG12	2.08	0.65
2:C:6:THR:HG22	2:C:791:LEU:HD22	1.79	0.65
5:F:437:GLN:OE1	7:2:27:DA:N6	2.30	0.65
3:J:1263:LYS:NZ	3:J:1280:VAL:HA	2.11	0.65
3:J:450:HIS:CE1	3:J:625:MET:CE	2.80	0.65
5:L:598:LEU:O	5:L:604:SER:OG	2.15	0.65
1:M:232:VAL:CG2	1:N:221:ALA:CB	2.75	0.65
2:O:280:ASP:O	2:O:281:ASP:HB2	1.97	0.65
1:B:151:GLY:O	1:B:177:TYR:HB2	1.97	0.64
2:C:230:PHE:CE1	2:C:292:ILE:HD11	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1163:VAL:HG12	3:D:1164:SER:N	2.12	0.64
2:I:1281:TYR:HE1	3:J:489:ASN:HD21	1.45	0.64
1:N:82:LEU:HD21	1:N:173:VAL:HG22	1.78	0.64
2:O:1119:MET:SD	2:O:1210:ILE:HD11	2.37	0.64
2:O:653:MET:HG2	2:O:654:ASP:O	1.97	0.64
2:O:667:LEU:HD22	2:O:705:GLU:CD	2.16	0.64
3:P:111:THR:CG2	3:P:112:ALA:H	2.07	0.64
5:R:457:ILE:O	5:R:461:ASN:OD1	2.15	0.64
1:B:57:THR:CG2	1:B:158:ARG:HH12	2.11	0.64
2:C:983:GLY:HA3	2:C:1002:LEU:HD11	1.78	0.64
2:C:1086:PRO:HB2	2:C:1212:LEU:CD1	2.27	0.64
3:D:421:VAL:HB	3:D:439:PRO:HG3	1.80	0.64
3:D:501:VAL:HG12	3:D:502:PRO:N	2.11	0.64
3:D:647:PRO:HG3	3:D:697:MET:HB2	1.78	0.64
2:I:1307:ASN:HB3	2:I:1312:ASN:HB3	1.79	0.64
2:I:15:PHE:O	2:I:17:LYS:HE3	1.96	0.64
2:I:275:ARG:HH22	2:I:279:LYS:HD3	1.61	0.64
2:I:1291:LEU:HA	3:J:345:LYS:HD2	1.79	0.64
1:N:190:ALA:HB2	1:N:200:LYS:HG3	1.80	0.64
2:O:957:LYS:HG2	2:O:1029:LEU:HD11	1.79	0.64
3:P:352:ARG:O	3:P:353:SER:HB2	1.96	0.64
5:R:401:PHE:O	5:R:405:ILE:HG13	1.97	0.64
2:C:1258:PRO:O	3:D:346:ARG:HD2	1.97	0.64
2:C:432:LEU:HG	2:C:433:ILE:N	2.05	0.64
3:D:1169:THR:HG22	3:D:1170:LYS:HG3	1.78	0.64
3:D:173:GLY:O	3:D:175:GLU:N	2.29	0.64
5:F:423:ARG:HG3	6:1:37:DA:N1	2.11	0.64
3:D:398:LYS:HD3	5:F:532:LEU:CG	2.27	0.64
1:G:224:LEU:CG	1:H:228:LEU:HD11	2.27	0.64
2:I:969:ALA:O	2:I:973:SER:HB2	1.97	0.64
3:J:1101:LEU:CD2	3:J:1122:ALA:HB3	2.22	0.64
3:J:744:ARG:HD2	3:J:763:PHE:CE2	2.32	0.64
1:M:67:GLU:O	1:M:78:ILE:HB	1.97	0.64
2:O:1243:MET:HG3	3:P:372:MET:HE1	1.79	0.64
2:O:83:GLN:O	2:O:87:ILE:HG13	1.97	0.64
3:P:1344:LEU:HA	3:P:1349:GLU:OE1	1.97	0.64
1:B:224:LEU:C	1:B:224:LEU:HD13	2.17	0.64
2:C:808:ASN:ND2	3:D:633:ALA:CB	2.60	0.64
5:F:598:LEU:O	5:F:604:SER:OG	2.15	0.64
1:G:224:LEU:HD12	1:G:224:LEU:O	1.97	0.64
1:G:47:LEU:CD1	1:G:183:ILE:HD11	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:VAL:HG11	1:H:132:HIS:CE1	2.31	0.64
1:H:78:ILE:HA	1:H:81:ILE:HD12	1.79	0.64
3:J:1040:MET:HG2	3:J:1046:ILE:CG2	2.27	0.64
3:J:428:THR:O	3:J:428:THR:HG22	1.96	0.64
5:L:395:THR:HA	5:L:404:LEU:CD1	2.28	0.64
2:O:298:ALA:O	2:O:313:ALA:HB1	1.96	0.64
2:O:658:GLN:NE2	2:O:1186:VAL:HG23	2.11	0.64
2:O:708:VAL:HG11	2:O:794:LEU:CD2	2.26	0.64
3:P:1101:LEU:CD2	3:P:1122:ALA:CB	2.69	0.64
5:R:167:ASP:N	5:R:168:PRO:HD3	2.12	0.64
2:C:449:GLY:O	2:C:586:PHE:HE1	1.79	0.64
3:D:182:ALA:HA	3:D:185:ILE:HG13	1.78	0.64
5:F:481:GLU:O	5:F:485:GLU:HG3	1.98	0.64
1:G:223:ILE:O	1:G:227:GLN:HG2	1.97	0.64
2:I:593:LYS:HE2	2:I:595:THR:OG1	1.98	0.64
3:J:1246:VAL:O	3:J:1246:VAL:HG12	1.98	0.64
3:J:502:PRO:HB2	3:J:601:ILE:HD13	1.80	0.64
1:M:69:SER:O	1:M:78:ILE:HD11	1.97	0.64
1:N:115:ILE:HD11	1:N:144:ILE:HD12	1.78	0.64
2:O:1124:ILE:HD12	2:O:1198:LEU:HD11	1.77	0.64
2:O:700:VAL:CG1	2:O:1117:LEU:HD23	2.28	0.64
3:P:620:PHE:CE2	3:P:624:ILE:HD11	2.33	0.64
1:A:179:PRO:CA	1:A:208:ASN:HD21	2.10	0.64
2:C:550:VAL:HG22	3:D:780:ARG:HD2	1.78	0.64
3:D:1179:PRO:O	3:D:1182:GLY:O	2.16	0.64
2:I:1290:MET:SD	2:I:1294:LYS:HD2	2.37	0.64
2:I:1280:ALA:HB3	3:J:431:ARG:HB3	1.80	0.64
3:J:645:VAL:HG22	3:J:701:LEU:CD1	2.26	0.64
2:O:496:LYS:HE2	7:8:24:DT:C5'	2.27	0.64
3:P:759:ILE:O	3:P:759:ILE:HG22	1.94	0.64
3:P:966:VAL:HG11	3:P:1030:GLU:HA	1.79	0.64
2:C:1292:THR:HG23	2:C:1293:VAL:N	2.12	0.64
3:D:1230:THR:HG23	3:D:1257:VAL:HG11	1.80	0.64
3:D:262:THR:C	5:F:507:MET:HB3	2.18	0.64
3:D:114:ILE:HG22	3:D:307:LEU:HD12	1.79	0.64
3:D:71:LEU:HB2	3:D:90:VAL:HG21	1.80	0.64
5:F:502:LYS:HD2	5:F:503:GLU:N	2.13	0.64
2:I:17:LYS:HG2	2:I:1154:ASP:O	1.98	0.64
2:I:35:PHE:O	2:I:39:ILE:HG13	1.97	0.64
2:I:886:LYS:N	2:I:917:SER:OG	2.21	0.64
3:J:337:ARG:HD3	3:J:341:ASN:HD22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:661:VAL:CG1	2:O:665:ALA:CB	2.75	0.64
3:P:141:PHE:HA	3:P:180:MET:HG2	1.80	0.64
3:P:517:CYS:SG	3:P:518:VAL:N	2.71	0.64
3:D:102:MET:CE	3:D:246:PRO:HD3	2.28	0.64
3:J:644:MET:CE	3:J:764:ARG:HB2	2.27	0.64
2:O:1127:LYS:O	2:O:1131:MET:HG3	1.98	0.64
1:B:198:LEU:HD13	1:B:198:LEU:N	2.13	0.64
3:D:412:LEU:CD1	3:D:416:ILE:HD11	2.27	0.64
5:F:135:ALA:HB2	5:F:256:PHE:HB3	1.79	0.64
2:I:1323:PHE:O	2:I:1327:LEU:HG	1.97	0.64
3:J:1011:VAL:HG11	3:J:1017:VAL:HG11	1.79	0.64
3:J:131:PRO:O	3:J:135:ILE:CG1	2.45	0.64
3:J:246:PRO:O	3:J:250:ARG:HG2	1.98	0.64
3:J:625:MET:HG2	3:J:629:PHE:HE2	1.63	0.64
3:J:824:PRO:HD3	3:J:878:ASP:O	1.98	0.64
3:J:97:VAL:CG1	3:J:101:ARG:HG3	2.28	0.64
5:L:452:ILE:HG21	5:L:457:ILE:CD1	2.16	0.64
2:O:634:VAL:HG12	2:O:635:THR:N	2.13	0.64
3:D:364:HIS:HB3	3:D:487:THR:CG2	2.28	0.64
3:J:355:ILE:O	3:J:355:ILE:HG13	1.97	0.64
3:J:965:SER:OG	3:J:966:VAL:N	2.31	0.64
3:J:97:VAL:HG12	3:J:101:ARG:HG3	1.80	0.64
5:L:235:ILE:HG23	5:L:240:ARG:HA	1.79	0.64
1:N:44:ARG:HG3	1:N:183:ILE:HG23	1.79	0.64
2:O:805:MET:HE2	2:O:806:PRO:HD2	1.79	0.64
3:P:1357:ILE:N	3:P:1357:ILE:HD12	2.13	0.64
5:F:457:ILE:HA	5:F:460:ILE:HD12	1.80	0.63
1:G:31:LEU:CD1	1:G:201:LEU:HB3	2.28	0.63
2:I:335:THR:HG22	2:I:336:LEU:N	2.13	0.63
2:I:662:SER:OG	2:I:663:VAL:N	2.28	0.63
2:I:528:ARG:HD2	2:I:663:VAL:CG2	2.28	0.63
5:L:457:ILE:O	5:L:461:ASN:OD1	2.15	0.63
1:M:231:PHE:CE1	1:N:28:LEU:HG	2.32	0.63
1:B:190:ALA:HB2	1:B:200:LYS:N	2.12	0.63
2:C:408:SER:O	2:C:431:LYS:NZ	2.23	0.63
3:D:121:PRO:O	3:D:122:SER:CB	2.45	0.63
1:G:227:GLN:HG3	1:H:35:PHE:CE1	2.34	0.63
3:J:1272:SER:HB3	3:J:1274:PHE:HE2	1.62	0.63
3:J:746:LEU:HG	3:J:758:PRO:CB	2.18	0.63
3:J:418:GLU:OE2	4:K:3:ARG:HG3	1.97	0.63
5:L:306:PHE:O	5:L:310:GLU:HG3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1295:SER:OG	3:P:346:ARG:O	2.16	0.63
2:O:164:THR:HG21	2:O:171:LEU:CD1	2.24	0.63
3:P:1230:THR:HG23	3:P:1257:VAL:HG11	1.81	0.63
3:P:709:ARG:O	3:P:710:ASP:CB	2.45	0.63
3:P:782:GLY:O	3:P:935:PHE:HB3	1.98	0.63
6:1:44:DG:H4'	6:1:44:DG:OP1	1.99	0.63
7:8:24:DT:H4'	7:8:24:DT:OP1	1.97	0.63
1:B:43:LEU:C	1:B:47:LEU:HD12	2.18	0.63
1:B:57:THR:HG23	1:B:158:ARG:NH1	2.13	0.63
2:C:1030:GLU:OE1	2:C:1030:GLU:CA	2.46	0.63
2:C:1280:ALA:HB1	3:D:431:ARG:HD2	1.81	0.63
3:D:1160:SER:HB2	3:D:1204:VAL:O	1.98	0.63
2:I:936:ARG:HH21	2:I:1047:LEU:HD23	1.63	0.63
2:I:821:ARG:O	2:I:825:GLU:CD	2.37	0.63
3:J:720:ASN:O	3:J:724:MET:HG3	1.98	0.63
3:J:839:VAL:CG1	3:J:864:LEU:CD1	2.76	0.63
5:L:410:ILE:O	5:L:413:MET:HB2	1.98	0.63
1:M:134:THR:HG21	2:O:727:VAL:O	1.98	0.63
1:M:210:THR:HG22	1:M:211:ILE:HD13	1.80	0.63
2:O:726:TYR:CB	2:O:733:VAL:HG22	2.28	0.63
3:P:42:GLU:CD	5:R:451:ARG:HG2	2.18	0.63
3:P:76:LYS:O	3:P:77:ARG:HB2	1.98	0.63
1:A:67:GLU:O	1:A:78:ILE:HB	1.98	0.63
2:C:164:THR:O	2:C:165:HIS:CB	2.47	0.63
2:C:389:PHE:CB	2:C:420:LEU:HD12	2.25	0.63
3:D:1286:LYS:HA	3:D:1289:ASN:ND2	2.13	0.63
3:D:364:HIS:CD2	4:E:4:VAL:HG13	2.33	0.63
3:D:450:HIS:HD2	3:D:452:LEU:HB2	1.60	0.63
2:I:724:VAL:CG1	2:I:727:VAL:HG22	2.28	0.63
2:O:164:THR:O	2:O:165:HIS:HB2	1.98	0.63
2:O:564:PRO:HG2	2:O:572:ILE:HD12	1.79	0.63
3:P:138:VAL:HG12	3:P:139:LEU:N	2.12	0.63
5:R:441:ARG:O	5:R:445:ASP:HB2	1.98	0.63
1:A:56:VAL:HG21	1:A:85:LEU:HB3	1.79	0.63
2:C:1142:ARG:HG3	2:C:1161:LEU:HD23	1.78	0.63
3:D:428:THR:O	3:D:428:THR:HG22	1.97	0.63
3:D:918:ILE:CG2	3:D:919:ALA:N	2.62	0.63
2:I:1252:SER:HA	2:I:1259:LEU:HD21	1.80	0.63
2:I:131:THR:HG23	2:I:135:THR:O	1.99	0.63
1:M:46:ILE:HD12	1:M:46:ILE:N	2.14	0.63
1:M:232:VAL:HG21	1:N:221:ALA:CB	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:188:PHE:CE2	2:O:436:ARG:HB2	2.34	0.63
2:O:292:ILE:CG2	2:O:322:LEU:HD11	2.27	0.63
2:O:519:ASN:OD1	2:O:522:SER:N	2.31	0.63
2:O:741:MET:SD	2:O:747:GLY:HA3	2.39	0.63
3:P:734:ALA:HA	3:P:737:ILE:HD12	1.81	0.63
5:R:452:ILE:HB	5:R:457:ILE:HD11	1.81	0.63
7:5:18:DT:H2'	7:5:19:DA:C5'	2.27	0.63
1:A:131:CYS:SG	1:A:132:HIS:N	2.71	0.63
1:B:190:ALA:CB	1:B:199:ASP:CA	2.76	0.63
2:C:414:ILE:HG13	2:C:415:GLU:H	1.61	0.63
1:H:59:VAL:HG22	1:H:144:ILE:HG23	1.80	0.63
2:I:1199:LEU:HD23	2:I:1204:LEU:HD13	1.80	0.63
2:I:642:SER:O	2:I:643:SER:HB3	1.97	0.63
2:I:680:LEU:O	2:I:684:ASN:ND2	2.31	0.63
3:J:1231:ARG:O	3:J:1234:VAL:HB	1.97	0.63
5:L:137:TYR:HE2	5:L:139:GLU:HB2	1.64	0.63
2:O:214:ASN:CG	2:O:214:ASN:O	2.35	0.63
2:O:729:ALA:O	2:O:755:LYS:HE3	1.99	0.63
3:P:849:LEU:CD2	3:P:857:LEU:HA	2.29	0.63
1:B:71:LYS:NZ	1:B:140:ILE:HG13	2.13	0.63
2:C:1117:LEU:CD2	2:C:1182:ILE:CD1	2.77	0.63
3:D:1134:ILE:HG22	3:D:1134:ILE:O	1.98	0.63
3:D:416:ILE:CD1	3:D:441:LEU:HD11	2.28	0.63
5:F:231:THR:HG21	5:F:252:LEU:HD22	1.81	0.63
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.23	0.63
2:I:870:ILE:HG13	2:I:944:ARG:HG2	1.81	0.63
3:J:275:ARG:HD3	3:J:298:MET:HB3	1.80	0.63
3:J:964:LYS:HD2	3:J:977:SER:HB2	1.81	0.63
2:O:297:VAL:HG22	2:O:315:MET:O	1.98	0.63
5:R:460:ILE:HA	5:R:463:LEU:CD1	2.29	0.63
1:B:217:ILE:CG2	1:B:218:ARG:N	2.61	0.63
2:C:550:VAL:O	3:D:777:HIS:CE1	2.52	0.63
2:C:612:GLY:O	2:C:639:LYS:HA	1.98	0.63
3:D:342:LEU:HD22	3:D:1352:ILE:HG23	1.80	0.63
3:D:135:ILE:O	3:D:139:LEU:CG	2.32	0.63
3:D:309:ASN:OD1	3:D:315:ALA:HB1	1.98	0.63
3:D:79:LYS:HG3	5:F:569:THR:HG22	1.81	0.63
5:F:97:PRO:CA	5:F:100:MET:HG3	2.19	0.63
5:F:511:ILE:CD1	5:F:519:LEU:HA	2.28	0.63
2:I:104:ILE:O	2:I:115:LYS:HB3	1.99	0.63
3:J:294:ASN:HD22	5:L:406:GLN:NE2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:377:LYS:O	5:L:381:GLU:HG3	1.99	0.63
2:O:505:PHE:O	2:O:509:SER:HB3	1.99	0.63
3:P:146:VAL:HG11	3:P:154:LEU:HD22	1.80	0.63
3:P:726:ALA:HB2	3:P:737:ILE:HD11	1.81	0.63
1:A:45:ARG:HH12	2:C:1216:ARG:CA	2.02	0.63
3:D:1308:GLY:O	3:D:1311:LYS:HE3	1.98	0.63
3:D:130:MET:CG	3:D:134:ASP:OD2	2.45	0.63
3:D:930:LEU:HB2	3:D:1134:ILE:HG13	1.81	0.63
5:F:450:ILE:HG13	5:F:450:ILE:O	1.98	0.63
3:J:1285:VAL:HG13	3:J:1286:LYS:N	2.14	0.63
2:O:163:LYS:HD3	2:O:164:THR:HB	1.81	0.63
2:O:313:ALA:O	2:O:314:ASN:HB3	1.98	0.63
3:P:1101:LEU:HD13	3:P:1107:VAL:HG22	1.81	0.63
3:P:1169:THR:O	3:P:1170:LYS:HB2	1.97	0.63
3:P:337:ARG:HD3	3:P:341:ASN:HD22	1.62	0.63
3:P:385:LEU:CD2	3:P:411:ILE:CD1	2.74	0.63
3:P:288:PRO:HG2	5:R:380:VAL:HG11	1.81	0.63
5:R:453:PRO:HG2	5:R:456:MET:HE3	1.79	0.63
2:C:448:LEU:CD1	2:C:557:ARG:HD2	2.29	0.62
2:C:936:ARG:HG2	2:C:937:ASP:N	2.14	0.62
3:D:614:LEU:O	3:D:618:VAL:HG23	1.99	0.62
2:I:1284:ALA:HA	3:J:1357:ILE:CD1	2.29	0.62
2:I:1334:GLY:O	3:J:25:ALA:HB3	1.99	0.62
3:J:29:MET:O	3:J:32:SER:HB3	1.98	0.62
2:O:1322:SER:O	2:O:1325:VAL:HB	1.98	0.62
1:B:71:LYS:HZ3	1:B:140:ILE:HA	1.64	0.62
2:I:496:LYS:HB3	2:I:497:PRO:HD3	1.82	0.62
3:J:1029:THR:HG22	3:J:1099:TYR:CE1	2.34	0.62
2:I:1276:TRP:HE1	3:J:1348:LYS:NZ	1.95	0.62
1:M:67:GLU:OE1	1:M:79:LEU:HD21	1.99	0.62
1:M:234:LEU:HB3	1:N:13:LEU:HD23	1.79	0.62
2:O:369:MET:HE2	2:O:369:MET:C	2.20	0.62
2:O:934:PHE:HE2	2:O:1051:LYS:HD2	1.65	0.62
6:4:12:DC:H2'	6:4:13:DT:OP2	1.99	0.62
7:5:51:DG:C2'	7:5:52:DT:H71	2.29	0.62
3:D:575:GLY:O	3:D:579:LEU:HG	2.00	0.62
3:D:759:ILE:HD13	3:D:767:LEU:CD1	2.29	0.62
5:F:97:PRO:HA	5:F:100:MET:CG	2.19	0.62
1:G:162:GLU:HG2	1:G:162:GLU:O	1.98	0.62
2:I:807:TRP:CD1	2:I:817:LEU:HD11	2.34	0.62
5:L:167:ASP:N	5:L:168:PRO:HD3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:84:LEU:HD23	5:L:103:ARG:HG2	1.80	0.62
2:O:1064:ASP:OD1	2:O:1238:LEU:CD2	2.47	0.62
3:P:838:ARG:NH2	3:P:1234:VAL:HG11	2.14	0.62
3:P:421:VAL:CG2	3:P:439:PRO:HG2	2.28	0.62
5:R:576:VAL:O	5:R:580:PHE:HB2	1.99	0.62
2:C:1060:ILE:HD11	2:C:1076:ILE:HD11	1.81	0.62
2:C:13:LYS:O	2:C:1183:ALA:N	2.31	0.62
2:C:846:GLY:O	2:C:889:PRO:HG2	1.98	0.62
5:F:457:ILE:O	5:F:461:ASN:OD1	2.15	0.62
2:I:1312:ASN:ND2	2:I:1314:GLN:HB2	2.13	0.62
2:I:695:ALA:HB1	2:I:795:ALA:HB3	1.80	0.62
2:I:709:ALA:O	2:I:712:SER:OG	2.16	0.62
3:J:543:SER:O	3:J:574:VAL:HG21	1.99	0.62
3:J:923:ILE:O	3:J:926:PRO:HD2	1.99	0.62
1:M:112:ALA:HB3	1:M:126:PRO:HA	1.81	0.62
2:O:109:ALA:HB1	2:O:110:PRO:HD2	1.81	0.62
2:C:502:VAL:O	2:C:506:PHE:HD2	1.83	0.62
2:C:808:ASN:HD21	3:D:633:ALA:CB	2.13	0.62
2:I:1292:THR:HG23	2:I:1293:VAL:HG22	1.81	0.62
3:J:262:THR:C	5:L:507:MET:HB3	2.19	0.62
3:J:114:ILE:CD1	3:J:308:ASP:HB3	2.28	0.62
3:J:57:PHE:HB3	3:J:98:ARG:HH22	1.63	0.62
5:L:476:ARG:CG	5:L:477:GLU:H	2.13	0.62
2:O:698:PRO:HA	2:O:1231:TYR:CE1	2.35	0.62
2:O:192:ASP:HB3	2:O:346:TYR:HD1	1.64	0.62
2:O:435:ILE:HG12	2:O:440:GLY:HA3	1.79	0.62
3:P:1045:THR:HG22	3:P:1067:ARG:HD3	1.81	0.62
3:P:1253:ILE:O	3:P:1257:VAL:HG23	1.99	0.62
3:P:146:VAL:CG1	3:P:155:GLU:O	2.47	0.62
3:D:922:SER:O	3:D:926:PRO:HD3	2.00	0.62
3:J:521:LYS:HB2	3:J:543:SER:CB	2.29	0.62
1:M:145:LYS:CD	1:M:147:GLN:HE21	2.12	0.62
1:M:45:ARG:CD	1:N:38:THR:OG1	2.48	0.62
3:P:56:LEU:N	3:P:56:LEU:HD23	2.15	0.62
3:P:322:ARG:HE	5:R:510:PRO:HD3	1.65	0.62
7:2:29:DC:H2'	7:2:30:DA:C8	2.34	0.62
2:C:563:THR:HG22	2:C:680:LEU:HD11	1.81	0.62
2:C:732:ILE:HG21	2:C:783:LEU:HD13	1.81	0.62
2:C:952:GLN:O	2:C:955:GLN:HB2	1.99	0.62
2:C:972:PHE:HE2	2:C:994:ARG:O	1.83	0.62
2:C:1294:LYS:HD3	3:D:347:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:471:LEU:HG	5:F:476:ARG:O	2.00	0.62
2:I:1342:GLU:HA	3:J:18:ASP:HB2	1.81	0.62
2:I:163:LYS:HD3	2:I:164:THR:HG22	1.80	0.62
2:I:539:THR:HG22	2:I:540:ARG:N	2.14	0.62
3:J:1257:VAL:HA	3:J:1260:MET:HE2	1.81	0.62
3:J:1280:VAL:HG12	3:J:1281:GLU:N	2.13	0.62
2:I:1077:SER:HA	3:J:356:THR:HG23	1.80	0.62
3:J:615:LYS:CB	3:J:616:PRO:HD3	2.29	0.62
2:O:120:GLN:HG2	2:O:489:PRO:CG	2.30	0.62
3:P:233:LYS:HB2	3:P:236:TRP:CZ2	2.34	0.62
3:P:575:GLY:HA2	3:P:578:ILE:CD1	2.30	0.62
5:R:262:VAL:CG1	5:R:263:PRO:HD2	2.30	0.62
6:4:48:DA:H2'	6:4:49:DG:O4'	1.98	0.62
2:C:1199:LEU:HD13	2:C:1205:PRO:O	2.00	0.62
2:C:698:PRO:CA	2:C:1231:TYR:CE1	2.81	0.62
2:C:451:ARG:CZ	2:C:547:VAL:HG11	2.29	0.62
2:C:720:ARG:HD3	2:C:740:GLU:HB3	1.80	0.62
3:D:835:LEU:HD21	3:D:880:VAL:HG23	1.81	0.62
5:F:540:LEU:O	5:F:544:THR:HG23	1.99	0.62
2:I:1304:MET:O	2:I:1308:ILE:HG13	2.00	0.62
2:I:686:GLN:NE2	2:I:1069:ARG:CG	2.62	0.62
3:J:930:LEU:HB3	3:J:1134:ILE:HD11	1.80	0.62
1:M:26:VAL:HG11	1:M:217:ILE:CD1	2.30	0.62
2:O:1292:THR:HG23	2:O:1293:VAL:HG22	1.81	0.62
2:O:228:VAL:CG2	2:O:245:ARG:HH12	2.10	0.62
2:O:857:VAL:HG21	2:O:882:ILE:HD11	1.81	0.62
5:R:451:ARG:NH1	5:R:453:PRO:HA	2.15	0.62
8:6:13:GTP:H2'	8:6:14:A:H8	1.65	0.62
2:C:128:PRO:HB2	2:C:506:PHE:CE1	2.34	0.62
2:C:228:VAL:HG11	2:C:239:MET:CE	2.30	0.62
2:C:753:LEU:HD11	2:C:784:ALA:HB2	1.81	0.62
3:D:805:GLN:O	3:D:1347:LEU:HD11	2.00	0.62
3:D:76:LYS:HG3	3:D:77:ARG:N	2.14	0.62
3:J:370:LYS:HA	3:J:441:LEU:CD2	2.30	0.62
5:L:455:HIS:O	5:L:458:GLU:HB2	2.00	0.62
2:O:1105:SER:HA	3:P:736:GLN:NE2	2.11	0.62
5:R:385:ARG:O	5:R:388:ILE:HG23	2.00	0.62
1:A:226:GLU:O	1:A:229:GLU:HB2	2.00	0.62
2:C:144:VAL:HG23	2:C:515:MET:HB2	1.82	0.62
2:C:335:THR:CG2	2:C:336:LEU:N	2.63	0.62
3:D:1346:GLY:N	3:D:1349:GLU:OE1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:502:PRO:HB3	3:D:506:VAL:HG11	1.82	0.62
3:D:796:LEU:HG	3:D:797:THR:N	2.15	0.62
3:J:307:LEU:HA	3:J:327:LEU:HD12	1.82	0.62
3:J:519:ASN:CA	3:J:523:GLU:HB2	2.30	0.62
1:M:208:ASN:HD22	1:M:208:ASN:H	1.48	0.62
2:O:366:ILE:O	2:O:369:MET:HG3	2.00	0.62
2:O:1239:VAL:HG23	3:P:354:VAL:HG23	1.82	0.62
3:P:849:LEU:HD22	3:P:857:LEU:HD23	1.81	0.62
1:A:51:MET:CE	1:A:52:PRO:HD2	2.30	0.61
3:D:263:SER:OG	3:D:265:LEU:HG	2.00	0.61
3:D:664:ILE:HG12	3:D:681:LYS:HZ3	1.63	0.61
3:D:744:ARG:HB3	3:D:759:ILE:CG2	2.29	0.61
1:H:30:PRO:HG3	1:H:192:VAL:HG21	1.81	0.61
3:J:592:VAL:HG22	3:J:592:VAL:O	2.00	0.61
1:M:179:PRO:CA	1:M:208:ASN:HD21	2.12	0.61
2:O:1291:LEU:HA	3:P:345:LYS:HD2	1.82	0.61
3:P:1103:GLY:O	3:P:1104:LYS:HB2	1.99	0.61
3:P:1349:GLU:O	3:P:1353:VAL:HG13	2.00	0.61
3:P:1360:GLY:HA3	4:Q:17:PHE:CZ	2.35	0.61
3:P:44:ILE:HD12	3:P:49:PHE:HA	1.82	0.61
1:A:11:PRO:HG2	1:B:231:PHE:CZ	2.34	0.61
2:C:1333:LEU:HB2	2:C:1335:ILE:HD12	1.80	0.61
3:D:128:LEU:HD22	3:D:157:GLN:NE2	2.15	0.61
3:D:833:GLU:HB2	3:D:1242:ARG:CZ	2.29	0.61
2:I:189:ASP:OD1	2:I:190:PRO:HD2	2.00	0.61
2:I:275:ARG:CG	2:I:275:ARG:HH11	2.13	0.61
2:I:870:ILE:HG21	2:I:944:ARG:HG2	1.82	0.61
3:J:1355:ARG:CZ	3:J:1369:ARG:HH12	2.14	0.61
2:O:197:ARG:CB	2:O:200:ARG:HA	2.31	0.61
3:P:1330:ARG:O	3:P:1334:GLU:HG3	2.00	0.61
3:P:395:LYS:HE2	3:P:399:LYS:CE	2.30	0.61
5:R:269:LEU:O	5:R:273:MET:HE2	2.00	0.61
6:1:11:DA:N1	7:2:52:DT:O2	2.33	0.61
2:C:1290:MET:SD	2:C:1294:LYS:HD2	2.40	0.61
2:C:681:MET:O	2:C:685:MET:HG2	1.99	0.61
3:D:1348:LYS:O	3:D:1351:VAL:HB	1.99	0.61
1:G:86:LYS:HE2	1:G:174:ASP:HB2	1.81	0.61
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.01	0.61
3:J:111:THR:CG2	3:J:300:GLN:HG3	2.30	0.61
2:I:1289:GLU:OE2	3:J:473:THR:HG23	2.00	0.61
2:O:1258:PRO:HG2	3:P:346:ARG:HB3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:397:LEU:O	2:O:398:SER:HB3	1.99	0.61
2:O:577:VAL:HG23	2:O:661:VAL:O	2.00	0.61
3:P:233:LYS:CB	3:P:236:TRP:CE2	2.82	0.61
3:P:793:SER:O	3:P:796:LEU:HB3	1.99	0.61
5:R:509:THR:HG21	7:8:22:DA:N6	2.16	0.61
2:I:142:GLU:HG2	2:I:515:MET:HE2	1.81	0.61
2:I:550:VAL:O	3:J:777:HIS:CE1	2.54	0.61
2:I:661:VAL:HG11	2:I:665:ALA:HB1	1.80	0.61
2:I:937:ASP:CB	2:I:1039:GLY:HA3	2.29	0.61
3:J:930:LEU:CB	3:J:1134:ILE:HD11	2.31	0.61
3:J:435:GLN:HB3	3:J:437:PHE:HE1	1.66	0.61
3:J:512:TYR:CE1	3:J:545:HIS:CE1	2.88	0.61
3:P:1031:VAL:HG23	3:P:1080:ILE:HG21	1.83	0.61
3:P:1226:VAL:O	3:P:1229:VAL:HG13	2.00	0.61
3:P:421:VAL:HG23	3:P:439:PRO:CG	2.30	0.61
2:C:1061:GLN:HB2	2:C:1062:PRO:CD	2.21	0.61
2:C:213:LEU:O	2:C:214:ASN:HB3	2.01	0.61
2:C:667:LEU:HD22	2:C:705:GLU:CD	2.21	0.61
3:D:146:VAL:HG23	3:D:158:GLN:O	2.01	0.61
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.80	0.61
2:I:255:ILE:HD13	2:I:285:ILE:CD1	2.30	0.61
2:I:298:ALA:HB2	2:I:336:LEU:HD21	1.82	0.61
2:I:805:MET:CE	2:I:806:PRO:HD2	2.27	0.61
2:O:153:PRO:HA	2:O:177:ILE:CG2	2.30	0.61
3:P:135:ILE:O	3:P:138:VAL:HB	2.00	0.61
3:P:968:ASN:HB3	3:P:1117:SER:O	2.01	0.61
3:P:483:LEU:CD2	4:Q:16:ARG:HB3	2.29	0.61
1:B:112:ALA:HB1	1:B:123:ILE:HG21	1.83	0.61
2:C:642:SER:O	2:C:643:SER:HB3	2.01	0.61
3:D:424:ASN:N	3:D:466:MET:HE2	2.15	0.61
5:F:392:LYS:O	5:F:395:THR:OG1	2.17	0.61
2:I:429:MET:O	2:I:433:ILE:HG13	2.01	0.61
3:J:474:LEU:HD12	4:K:28:ARG:HD3	1.81	0.61
5:L:555:GLU:OE2	5:L:590:ILE:HG23	2.01	0.61
2:O:1272:GLU:HB3	2:O:1276:TRP:CZ2	2.35	0.61
3:P:1230:THR:HA	3:P:1233:ILE:HD12	1.83	0.61
3:D:544:LEU:CD2	3:D:578:ILE:HD11	2.31	0.61
1:G:81:ILE:HA	1:G:84:ASN:HD22	1.66	0.61
2:I:363:LEU:O	2:I:366:ILE:HB	2.00	0.61
2:I:448:LEU:CD2	2:I:553:THR:OG1	2.41	0.61
3:J:280:LYS:HA	3:J:283:LEU:HD12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:693:VAL:HG12	3:J:694:SER:N	2.15	0.61
3:J:839:VAL:HG12	3:J:864:LEU:CD1	2.31	0.61
2:O:428:VAL:CG1	2:O:429:MET:HG3	2.27	0.61
2:O:759:SER:HB2	2:O:765:ILE:HD11	1.81	0.61
2:O:985:GLU:HB3	2:O:989:LEU:HG	1.82	0.61
3:P:209:ASN:HB2	3:P:214:ARG:HG3	1.80	0.61
3:P:786:THR:CG2	3:P:787:ALA:N	2.62	0.61
3:D:135:ILE:HG22	3:D:139:LEU:HD11	1.82	0.61
3:D:646:ILE:HG13	3:D:764:ARG:CD	2.30	0.61
1:H:31:LEU:HD13	1:H:39:LEU:HD12	1.78	0.61
3:J:139:LEU:HD21	3:J:185:ILE:CD1	2.31	0.61
3:J:432:LEU:HD11	3:J:499:ILE:HD13	1.81	0.61
3:J:644:MET:HE1	3:J:764:ARG:HB2	1.83	0.61
2:O:1032:LYS:O	2:O:1036:ILE:HD12	2.00	0.61
2:O:1166:ASP:N	2:O:1166:ASP:OD1	2.33	0.61
2:O:1225:VAL:CG1	2:O:1226:THR:N	2.64	0.61
2:O:217:THR:HA	2:O:220:ILE:HD12	1.81	0.61
2:O:207:THR:OG1	2:O:351:LEU:CD2	2.45	0.61
2:O:373:GLY:HA2	5:R:91:ILE:HG12	1.82	0.61
2:O:634:VAL:HG12	2:O:635:THR:H	1.66	0.61
3:P:1079:LYS:HE3	3:P:1087:ASP:OD1	1.99	0.61
3:P:26:SER:HB2	3:P:29:MET:SD	2.39	0.61
2:C:242:VAL:HG12	2:C:244:GLU:HG2	1.83	0.61
3:D:966:VAL:HG11	3:D:1030:GLU:HA	1.81	0.61
5:F:466:ILE:HD12	5:F:487:MET:SD	2.41	0.61
5:F:530:LEU:CD1	5:F:530:LEU:H	2.13	0.61
1:H:77:ASP:O	1:H:81:ILE:HD12	2.01	0.61
1:M:49:SER:CB	1:N:33:ARG:HH12	2.13	0.61
2:O:569:ILE:HD11	3:P:780:ARG:HG2	1.81	0.61
2:O:807:TRP:O	2:O:809:GLY:N	2.34	0.61
5:R:166:VAL:CG1	5:R:168:PRO:HD3	2.27	0.61
6:4:26:DT:H1'	6:4:27:DC:H5'	1.83	0.61
6:4:58:DG:N2	7:5:6:DG:N3	2.48	0.61
6:7:12:DC:H2''	6:7:13:DT:OP2	2.00	0.61
1:A:44:ARG:CA	1:A:47:LEU:HD12	2.31	0.61
3:D:1309:ILE:HG22	3:D:1310:THR:N	2.15	0.61
1:G:102:LEU:HD13	1:G:115:ILE:HG12	1.82	0.61
3:J:1216:ALA:O	3:J:1220:ILE:HG13	2.01	0.61
3:J:609:TYR:CD1	3:J:609:TYR:C	2.74	0.61
3:J:759:ILE:HG12	3:J:771:GLN:HG2	1.83	0.61
1:M:38:THR:HG21	1:N:46:ILE:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:120:GLN:OE1	2:O:490:GLN:HB3	2.01	0.61
3:P:886:VAL:HG22	3:P:1254:GLU:O	2.00	0.61
5:R:387:VAL:HG12	5:R:388:ILE:N	2.14	0.61
8:3:14:A:H5'	8:3:15:G:OP2	2.00	0.60
2:C:1289:GLU:HA	2:C:1293:VAL:CG2	2.31	0.60
2:C:6:THR:HG22	2:C:791:LEU:CD2	2.31	0.60
2:C:82:VAL:CG2	2:C:83:GLN:N	2.63	0.60
3:J:192:MET:CE	3:J:197:GLU:OE1	2.47	0.60
2:I:1258:PRO:HG2	3:J:346:ARG:HB3	1.81	0.60
3:J:512:TYR:CE1	3:J:545:HIS:HE1	2.19	0.60
3:J:762:ASN:OD1	3:J:764:ARG:HB3	2.00	0.60
2:O:1192:GLU:HA	2:O:1195:ILE:HD12	1.82	0.60
5:R:152:GLU:HG2	5:R:162:ILE:HD11	1.83	0.60
3:D:646:ILE:HG13	3:D:764:ARG:HD3	1.82	0.60
1:G:78:ILE:HA	1:G:81:ILE:HD12	1.83	0.60
2:I:160:ASP:HB3	2:I:163:LYS:HG3	1.83	0.60
2:I:448:LEU:HG	2:I:553:THR:HB	1.83	0.60
2:I:530:ILE:HD11	2:I:575:LEU:HB2	1.83	0.60
2:I:871:VAL:HG23	2:I:883:LEU:HA	1.82	0.60
3:J:620:PHE:CZ	3:J:624:ILE:HD11	2.36	0.60
2:C:1124:ILE:CD1	2:C:1180:MET:HB3	2.30	0.60
2:C:39:ILE:O	2:C:39:ILE:HG22	2.00	0.60
2:C:148:GLN:NE2	2:C:533:LEU:O	2.28	0.60
3:D:805:GLN:NE2	3:D:1347:LEU:H	1.97	0.60
3:D:220:ARG:HA	3:D:223:LEU:HD12	1.84	0.60
3:D:370:LYS:HE2	3:D:443:GLU:CA	2.32	0.60
2:I:1130:ALA:O	2:I:1134:GLN:HB2	2.02	0.60
2:I:194:LEU:HD12	2:I:195:PHE:N	2.16	0.60
5:L:563:PHE:HB2	5:L:565:ILE:HD11	1.82	0.60
2:O:1049:ILE:CG2	2:O:1050:VAL:N	2.64	0.60
2:O:256:GLU:HA	2:O:261:VAL:HG13	1.84	0.60
3:P:1063:ASP:OD2	3:P:1104:LYS:HE3	2.00	0.60
2:O:548:ARG:HH11	3:P:788:LEU:HD11	1.65	0.60
5:R:407:GLU:HG2	5:R:442:SER:HB3	1.82	0.60
1:B:223:ILE:O	1:B:227:GLN:HG2	2.01	0.60
3:D:1094:ASP:O	3:D:1096:PRO:HD3	2.02	0.60
1:G:28:LEU:CD1	1:H:231:PHE:CZ	2.84	0.60
1:G:38:THR:HG22	1:H:42:ALA:HA	1.84	0.60
2:I:1273:MET:HB3	3:J:428:THR:HB	1.83	0.60
2:I:1321:GLU:O	2:I:1325:VAL:HG23	2.02	0.60
3:J:972:LYS:HD3	3:J:1002:VAL:HG21	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:102:MET:HB3	6:4:42:DG:N2	2.15	0.60
5:L:137:TYR:CE2	5:L:139:GLU:HB2	2.36	0.60
5:L:495:ARG:O	5:L:498:LEU:HB2	2.01	0.60
2:O:1272:GLU:O	2:O:1275:VAL:HB	2.02	0.60
6:1:46:DG:C5'	6:1:46:DG:H8	2.15	0.60
7:2:18:DT:H2'	7:2:19:DA:H5''	1.83	0.60
1:A:38:THR:HG23	1:B:42:ALA:HA	1.83	0.60
1:A:67:GLU:HA	1:A:78:ILE:CG2	2.30	0.60
3:D:883:ARG:NE	3:D:898:CYS:SG	2.75	0.60
4:E:80:LEU:O	4:E:84:THR:HG23	2.01	0.60
2:I:700:VAL:HG13	2:I:1117:LEU:CD2	2.31	0.60
2:I:148:GLN:HB2	2:I:511:LEU:CD1	2.32	0.60
2:I:562:GLU:C	2:I:563:THR:CG2	2.70	0.60
2:I:569:ILE:HD13	3:J:784:ALA:HB2	1.82	0.60
2:I:794:LEU:HG	2:I:796:LEU:HG	1.84	0.60
3:J:546:ALA:O	3:J:548:VAL:HG23	2.02	0.60
3:J:975:ILE:HD13	3:J:980:THR:HG21	1.82	0.60
5:L:595:LEU:O	5:L:599:ARG:HG3	2.00	0.60
1:M:102:LEU:HD21	1:M:110:VAL:HG11	1.82	0.60
2:O:1278:LEU:HD21	2:O:1286:THR:OG1	2.01	0.60
3:P:62:PHE:HB3	3:P:98:ARG:HG2	1.82	0.60
6:7:50:DT:H5'	6:7:51:DC:C6	2.37	0.60
2:C:451:ARG:NH2	2:C:547:VAL:HG11	2.17	0.60
3:D:395:LYS:HG3	3:D:399:LYS:HE2	1.83	0.60
5:F:137:TYR:HE1	5:F:353:LEU:HD11	1.63	0.60
1:G:45:ARG:HD3	1:H:38:THR:HG23	1.83	0.60
2:I:1109:ILE:CG1	3:J:740:LEU:HD22	2.32	0.60
2:I:13:LYS:HG2	2:I:14:ASP:N	2.17	0.60
2:I:448:LEU:HD23	2:I:448:LEU:H	1.63	0.60
2:O:185:ASP:CG	2:O:200:ARG:HG2	2.22	0.60
2:O:206:ALA:O	2:O:209:ILE:HG22	2.00	0.60
3:J:426:ALA:HB1	7:5:14:DC:H1'	1.82	0.60
1:A:48:LEU:HA	1:A:180:VAL:HG21	1.81	0.60
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.32	0.60
2:C:505:PHE:O	2:C:509:SER:HB3	2.02	0.60
2:C:912:ASP:C	2:C:913:VAL:HG23	2.22	0.60
2:I:850:ILE:HG23	2:I:885:GLY:O	2.01	0.60
3:J:809:VAL:HG21	3:J:909:ILE:HD13	1.82	0.60
3:P:1309:ILE:HG22	3:P:1310:THR:N	2.16	0.60
1:A:190:ALA:H	1:A:199:ASP:HA	1.66	0.60
1:A:9:LEU:CD2	1:A:198:LEU:HD11	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:GLU:O	1:B:229:GLU:HB2	2.02	0.60
3:D:20:ILE:HG13	3:D:1344:LEU:HD11	1.84	0.60
3:D:615:LYS:N	3:D:616:PRO:CD	2.65	0.60
3:D:749:LYS:HG2	3:D:755:ILE:HG12	1.81	0.60
2:I:1114:GLU:OE1	2:I:1230:MET:HG3	2.02	0.60
2:I:113:THR:OG1	2:I:113:THR:O	2.20	0.60
3:J:357:VAL:HG12	3:J:359:PRO:HD3	1.82	0.60
3:J:385:LEU:HD13	3:J:397:ALA:HB1	1.82	0.60
3:J:369:PRO:HD3	3:J:447:ILE:HG23	1.84	0.60
3:J:450:HIS:CD2	3:J:451:PRO:HD2	2.36	0.60
3:P:378:LYS:HG2	3:P:382:TYR:OH	2.02	0.60
5:R:452:ILE:CG2	5:R:456:MET:HB3	2.32	0.60
1:B:190:ALA:HB2	1:B:199:ASP:CA	2.31	0.60
3:D:1146:GLU:CD	3:D:1309:ILE:HB	2.22	0.60
3:D:36:GLY:HA3	3:D:61:ILE:HG12	1.83	0.60
2:I:854:ILE:HG21	2:I:857:VAL:HG21	1.81	0.60
2:I:881:ASP:O	2:I:920:VAL:HG23	2.02	0.60
3:J:216:LYS:HZ1	3:J:220:ARG:HG3	1.65	0.60
3:J:517:CYS:HB3	3:J:545:HIS:HB2	1.83	0.60
3:P:1101:LEU:HD22	3:P:1122:ALA:CB	2.25	0.60
7:8:4:DC:C4	7:8:5:DC:N4	2.70	0.60
1:A:224:LEU:O	1:A:228:LEU:HD12	2.02	0.60
2:C:297:VAL:HG21	2:C:311:CYS:HB2	1.82	0.60
2:C:316:GLU:HG3	2:C:352:ARG:NH2	2.17	0.60
2:C:838:CYS:SG	2:C:918:LEU:HB2	2.41	0.60
5:F:102:MET:HE3	6:1:42:DG:N3	2.16	0.60
1:H:70:THR:HG23	1:H:70:THR:O	2.02	0.60
2:I:183:TRP:CZ3	6:4:48:DA:N6	2.70	0.60
2:I:213:LEU:O	2:I:214:ASN:CB	2.48	0.60
2:I:397:LEU:O	2:I:398:SER:HB3	2.00	0.60
3:J:1040:MET:HG2	3:J:1046:ILE:HG21	1.83	0.60
3:J:705:THR:HG21	3:J:716:GLN:CG	2.32	0.60
1:M:101:THR:HG22	1:M:143:ARG:HG2	1.82	0.60
3:P:332:LYS:HD2	3:P:1329:THR:HG23	1.84	0.60
3:P:99:ARG:HG3	3:P:249:LEU:HD21	1.84	0.60
3:P:697:MET:HE3	3:P:738:ARG:HA	1.84	0.60
3:P:908:ILE:HD13	3:P:908:ILE:H	1.64	0.60
3:P:322:ARG:HD3	5:R:510:PRO:HG3	1.84	0.60
6:4:47:DC:H4'	6:4:47:DC:OP1	2.02	0.59
2:C:1323:PHE:CE2	3:D:1353:VAL:HG12	2.37	0.59
2:C:1309:VAL:CG1	3:D:383:GLY:HA2	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:759:ILE:HD13	3:D:767:LEU:HD11	1.84	0.59
4:E:15:ASN:OD1	4:E:16:ARG:N	2.35	0.59
5:F:407:GLU:OE2	5:F:442:SER:HB3	2.01	0.59
1:G:224:LEU:C	1:G:224:LEU:HD12	2.22	0.59
1:H:35:PHE:O	1:H:39:LEU:HG	2.02	0.59
2:I:436:ARG:HH22	3:J:1068:THR:HG22	1.67	0.59
3:J:1163:VAL:HG13	3:J:1176:VAL:C	2.21	0.59
3:J:385:LEU:HD13	3:J:397:ALA:CB	2.32	0.59
3:J:915:ILE:O	3:J:918:ILE:CG2	2.48	0.59
2:O:530:ILE:HD11	2:O:575:LEU:HB2	1.83	0.59
3:P:609:TYR:CD1	3:P:609:TYR:C	2.75	0.59
6:7:49:DG:H3'	6:7:49:DG:H8	1.67	0.59
2:C:209:ILE:HG23	2:C:210:LEU:N	2.17	0.59
3:D:749:LYS:HD2	3:D:753:SER:CB	2.30	0.59
5:F:276:MET:O	5:F:280:VAL:HG23	2.02	0.59
5:F:92:GLY:O	5:F:93:ARG:HG3	2.02	0.59
3:J:527:LEU:HG	3:J:548:VAL:CG1	2.32	0.59
3:J:772:TYR:O	3:J:775:SER:OG	2.20	0.59
3:J:983:LYS:HZ1	3:J:985:ILE:HD11	1.67	0.59
1:N:212:ASP:CG	1:N:213:PRO:HD2	2.22	0.59
2:O:232:ILE:HG21	2:O:326:SER:CB	2.31	0.59
3:P:1274:PHE:O	3:P:1275:LEU:CB	2.47	0.59
3:P:527:LEU:HB2	3:P:550:VAL:HG22	1.84	0.59
5:R:96:ASP:CG	5:R:98:VAL:HB	2.22	0.59
6:1:47:DC:OP1	6:1:47:DC:H4'	2.02	0.59
2:I:1073:LYS:NZ	8:6:15:G:O5'	2.35	0.59
2:C:198:ILE:CD1	2:C:389:PHE:HE1	2.15	0.59
2:C:759:SER:CA	2:C:765:ILE:HD11	2.32	0.59
3:D:698:MET:O	3:D:702:GLN:HB2	2.03	0.59
3:D:714:GLU:HG2	3:D:715:LYS:N	2.17	0.59
2:I:213:LEU:O	2:I:214:ASN:HB3	2.02	0.59
2:I:697:LYS:HB3	2:I:790:ASP:OD2	2.02	0.59
3:J:34:SER:CB	3:J:104:HIS:HB3	2.32	0.59
3:J:1253:ILE:O	3:J:1256:ILE:HG13	2.03	0.59
3:J:1145:PHE:HB2	3:J:1309:ILE:HD11	1.83	0.59
5:L:580:PHE:O	5:L:581:ASP:HB3	2.02	0.59
2:O:1078:LYS:HG2	2:O:1079:ILE:N	2.16	0.59
3:P:1027:VAL:CG2	3:P:1124:ILE:HD11	2.31	0.59
3:P:269:TYR:O	3:P:273:ILE:HG13	2.01	0.59
1:A:208:ASN:H	1:A:208:ASN:HD22	1.48	0.59
2:C:237:LEU:HD11	2:C:289:VAL:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:182:SER:OG	2:C:388:LEU:HD23	2.02	0.59
2:C:890:LYS:HG2	2:C:891:GLY:N	2.17	0.59
3:D:259:ARG:CZ	5:F:502:LYS:HD3	2.32	0.59
5:F:451:ARG:HG3	5:F:451:ARG:O	2.00	0.59
2:I:1288:GLN:NE2	3:J:1354:GLY:O	2.35	0.59
3:J:405:GLU:O	3:J:408:VAL:HB	2.02	0.59
3:J:398:LYS:HZ3	5:L:532:LEU:HG	1.64	0.59
1:N:155:ALA:H	1:N:174:ASP:CG	2.04	0.59
1:N:47:LEU:HD13	1:N:183:ILE:HD12	1.84	0.59
3:P:251:PRO:O	5:R:507:MET:CE	2.50	0.59
1:A:158:ARG:NE	1:A:172:LEU:HD11	2.18	0.59
3:D:1134:ILE:O	3:D:1138:LEU:HB2	2.03	0.59
3:D:734:ALA:O	3:D:737:ILE:HB	2.03	0.59
1:H:68:TYR:CE1	1:H:79:LEU:CD2	2.82	0.59
2:I:176:ILE:HD12	2:I:184:LEU:CB	2.32	0.59
2:I:698:PRO:HG3	2:I:1231:TYR:CZ	2.37	0.59
2:I:764:CYS:O	2:I:764:CYS:SG	2.61	0.59
2:I:810:TYR:CE2	2:I:1078:LYS:HD3	2.37	0.59
3:J:115:TRP:CZ3	3:J:1333:THR:HG23	2.37	0.59
2:I:1281:TYR:HE1	3:J:489:ASN:ND2	1.99	0.59
2:O:675:ASP:CB	2:O:1107:MET:HE2	2.29	0.59
2:O:228:VAL:HG11	2:O:239:MET:HE3	1.83	0.59
2:O:39:ILE:O	2:O:39:ILE:CG2	2.49	0.59
2:O:478:ARG:NH1	2:O:492:MET:HA	2.18	0.59
3:P:1264:ALA:HB1	3:P:1303:SER:O	2.03	0.59
3:P:379:PRO:HA	3:P:382:TYR:CD2	2.37	0.59
1:B:107:ILE:HG13	1:B:136:GLU:HB3	1.84	0.59
2:C:201:ARG:HB3	2:C:369:MET:CE	2.33	0.59
2:C:808:ASN:N	2:C:808:ASN:ND2	2.49	0.59
3:D:268:LEU:HD13	3:D:306:LEU:HA	1.83	0.59
3:D:427:PRO:HG2	3:D:429:LEU:HD23	1.83	0.59
3:D:797:THR:HA	3:D:800:LEU:HD12	1.83	0.59
5:F:380:VAL:HG22	5:F:416:VAL:HG21	1.85	0.59
1:G:173:VAL:HG12	1:G:174:ASP:N	2.17	0.59
1:H:102:LEU:HD12	1:H:103:ASN:N	2.16	0.59
2:I:160:ASP:HB3	2:I:163:LYS:HB2	1.84	0.59
2:I:225:PHE:CE2	2:I:347:ILE:HB	2.37	0.59
2:I:26:TYR:CE2	2:I:28:LEU:HB2	2.38	0.59
2:I:435:ILE:HG23	2:I:440:GLY:O	2.03	0.59
2:I:75:LEU:HD21	2:I:127:ILE:CD1	2.31	0.59
3:J:1208:ASP:O	3:J:1210:ILE:HD12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:972:LYS:HD3	3:J:1002:VAL:HG11	1.83	0.59
5:L:100:MET:O	5:L:104:GLU:HG3	2.03	0.59
2:O:1061:GLN:HB2	2:O:1062:PRO:CD	2.30	0.59
3:P:772:TYR:O	3:P:775:SER:OG	2.20	0.59
2:C:448:LEU:HD13	2:C:557:ARG:HD2	1.83	0.59
2:C:554:HIS:HB3	2:C:558:VAL:HG12	1.84	0.59
3:D:327:LEU:HA	3:D:330:MET:HG3	1.85	0.59
3:D:425:ARG:HD2	3:D:457:TYR:HB3	1.84	0.59
3:D:435:GLN:NE2	3:D:486:SER:HA	2.17	0.59
3:D:497:GLU:HB3	3:D:498:PRO:CD	2.32	0.59
2:C:905:ILE:HA	5:F:595:LEU:HD23	1.83	0.59
2:I:1044:PRO:HB3	5:L:498:LEU:HD13	1.84	0.59
2:I:1246:ARG:NH2	2:I:1249:GLY:N	2.51	0.59
3:J:267:ASP:O	3:J:271:ARG:HG3	2.03	0.59
3:J:385:LEU:HD12	3:J:397:ALA:HB1	1.83	0.59
5:L:457:ILE:HA	5:L:460:ILE:CD1	2.24	0.59
1:N:95:LYS:HE3	1:N:120:ASP:OD2	2.03	0.59
3:P:1024:THR:HG21	3:P:1123:ARG:HE	1.67	0.59
2:C:728:ASP:HB3	2:C:731:ARG:H	1.67	0.59
2:C:943:LYS:HG3	2:C:944:ARG:N	2.16	0.59
3:D:647:PRO:HB3	3:D:697:MET:HA	1.84	0.59
3:J:384:LYS:HZ2	3:J:415:VAL:HG22	1.66	0.59
3:J:425:ARG:HD3	3:J:457:TYR:O	2.02	0.59
3:J:783:LEU:O	3:J:786:THR:HG22	2.03	0.59
3:J:796:LEU:HA	3:J:799:ARG:HE	1.67	0.59
1:M:26:VAL:HG21	1:M:217:ILE:HD11	1.85	0.59
3:P:1364:ALA:O	3:P:1367:GLN:HG3	2.03	0.59
6:1:43:DT:C2'	6:1:44:DG:H5''	2.32	0.59
2:C:1117:LEU:HD21	2:C:1182:ILE:HD12	1.84	0.59
2:C:1257:GLN:CG	2:C:1296:ASP:OD1	2.49	0.59
2:C:373:GLY:HA2	5:F:91:ILE:HA	1.83	0.59
2:C:936:ARG:HG2	2:C:937:ASP:H	1.67	0.59
3:D:885:VAL:HG13	3:D:894:VAL:HG11	1.84	0.59
1:H:64:VAL:HG11	1:H:78:ILE:HD13	1.85	0.59
2:I:667:LEU:CD2	2:I:705:GLU:OE2	2.51	0.59
3:J:1011:VAL:HG11	3:J:1017:VAL:HG12	1.83	0.59
3:J:130:MET:HG2	3:J:135:ILE:HG12	1.85	0.59
3:J:424:ASN:O	3:J:466:MET:HE2	2.02	0.59
3:J:514:THR:O	3:J:576:ARG:NH2	2.36	0.59
3:J:686:TRP:CE3	3:J:758:PRO:HG3	2.38	0.59
3:J:848:VAL:H	3:J:858:VAL:HB	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:828:GLY:CA	3:J:996:LYS:HG2	2.32	0.59
1:M:67:GLU:CA	1:M:78:ILE:HG21	2.32	0.59
2:O:335:THR:CG2	2:O:336:LEU:H	2.16	0.59
3:P:1159:ILE:HG22	3:P:1160:SER:H	1.68	0.59
3:P:1226:VAL:O	3:P:1229:VAL:HG12	2.02	0.59
3:P:709:ARG:O	3:P:710:ASP:HB3	2.03	0.59
8:6:14:A:H3'	8:6:15:G:C8	2.37	0.59
1:B:82:LEU:HD22	1:B:173:VAL:CG2	2.32	0.59
2:C:1171:ARG:O	2:C:1175:ASN:ND2	2.35	0.59
2:C:302:ILE:HG22	2:C:309:LEU:CD2	2.33	0.59
3:D:950:ILE:HD11	3:D:997:VAL:HG22	1.83	0.59
1:G:47:LEU:HD13	1:G:183:ILE:HD11	1.81	0.59
1:H:74:VAL:HG12	1:H:74:VAL:O	2.02	0.59
2:I:1289:GLU:OE1	3:J:472:LEU:HG	2.02	0.59
2:I:1312:ASN:O	2:I:1313:HIS:HB2	2.03	0.59
2:I:144:VAL:HG11	2:I:527:LYS:HA	1.85	0.59
3:J:154:LEU:HD13	3:J:176:PHE:CE1	2.38	0.59
3:J:492:SER:HG	3:J:495:ASN:N	1.97	0.59
3:J:609:TYR:CA	3:J:617:THR:HG21	2.33	0.59
5:L:392:LYS:HE2	5:L:401:PHE:CE1	2.38	0.59
1:N:228:LEU:O	1:N:232:VAL:HG23	2.02	0.59
2:O:1294:LYS:HD3	3:P:347:VAL:HG13	1.74	0.59
2:O:237:LEU:CB	2:O:287:VAL:HG22	2.33	0.59
2:O:288:PRO:HB2	2:O:290:GLU:HB3	1.84	0.59
3:P:1075:ARG:CG	3:P:1192:LYS:HD3	2.31	0.59
3:P:515:ARG:NH1	3:P:724:MET:HG2	2.18	0.59
3:P:783:LEU:HD11	3:P:936:HIS:HB2	1.84	0.59
5:R:507:MET:O	5:R:519:LEU:HB3	2.02	0.59
5:R:584:ARG:O	5:R:587:ILE:HG12	2.03	0.59
1:A:107:ILE:HG23	1:A:134:THR:O	2.02	0.58
1:A:208:ASN:N	1:A:208:ASN:HD22	2.00	0.58
1:B:86:LYS:HE2	1:B:173:VAL:CG1	2.29	0.58
2:C:171:LEU:HD22	2:C:188:PHE:O	2.03	0.58
2:C:397:LEU:O	2:C:398:SER:HB3	2.03	0.58
2:C:558:VAL:HG13	2:C:559:CYS:C	2.24	0.58
3:D:200:GLN:O	3:D:204:GLU:HG3	2.03	0.58
2:I:667:LEU:HD22	2:I:705:GLU:OE2	2.03	0.58
3:J:888:CYS:SG	3:J:898:CYS:SG	3.01	0.58
5:L:428:SER:OG	6:4:41:DT:H73	2.03	0.58
5:L:532:LEU:HD12	5:L:532:LEU:N	2.18	0.58
2:O:709:ALA:O	2:O:712:SER:OG	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1243:MET:HG3	3:P:372:MET:CE	2.33	0.58
3:P:589:TYR:CE2	3:P:593:ASN:ND2	2.71	0.58
1:B:71:LYS:HZ3	1:B:140:ILE:HG13	1.68	0.58
2:C:297:VAL:CG1	2:C:317:LEU:HD21	2.33	0.58
2:C:375:PRO:HB3	5:F:87:VAL:HG21	1.84	0.58
2:C:1268:GLN:HE22	3:D:351:GLY:CA	2.16	0.58
3:D:502:PRO:CG	3:D:601:ILE:HG21	2.25	0.58
5:F:216:LEU:O	5:F:220:LYS:HG2	2.04	0.58
2:I:1241:ASP:HA	2:I:1262:LYS:HZ1	1.68	0.58
3:J:1290:ARG:HA	3:J:1293:GLU:CD	2.23	0.58
3:J:797:THR:HA	3:J:800:LEU:HD12	1.85	0.58
3:J:895:CYS:SG	3:J:898:CYS:N	2.65	0.58
5:L:119:ILE:HG23	5:L:122:ARG:HH21	1.67	0.58
5:L:388:ILE:CG2	5:L:389:SER:N	2.66	0.58
3:P:1024:THR:HG21	3:P:1123:ARG:CD	2.32	0.58
3:P:1266:ILE:CD1	3:P:1278:GLU:CB	2.60	0.58
3:P:416:ILE:HD13	3:P:441:LEU:HG	1.85	0.58
4:Q:8:ASP:N	4:Q:8:ASP:OD1	2.33	0.58
7:2:31:DT:H2 ^o	7:2:32:DA:OP2	2.03	0.58
1:A:136:GLU:HG3	1:A:137:ASN:N	2.18	0.58
2:C:217:THR:HG21	2:C:313:ALA:CB	2.33	0.58
2:C:431:LYS:O	2:C:434:ASP:HB2	2.03	0.58
3:D:1356:LEU:HD12	3:D:1365:TYR:CG	2.38	0.58
3:D:367:GLY:HA3	3:D:448:GLN:HB2	1.85	0.58
2:C:1313:HIS:HB2	3:D:474:LEU:CD1	2.33	0.58
2:I:504:GLU:OE2	2:I:504:GLU:CA	2.42	0.58
5:L:332:ASP:OD1	5:L:333:VAL:N	2.36	0.58
1:N:58:GLU:OE2	1:N:166:ARG:HD3	2.03	0.58
2:O:1109:ILE:N	2:O:1109:ILE:HD13	2.17	0.58
2:O:1116:HIS:CD2	3:P:641:ILE:HG13	2.38	0.58
2:O:228:VAL:HG11	2:O:239:MET:CE	2.32	0.58
2:O:387:ASN:O	2:O:394:ARG:HD3	2.03	0.58
2:O:426:ILE:HG22	2:O:427:ASP:OD1	2.03	0.58
3:P:121:PRO:O	3:P:122:SER:CB	2.51	0.58
3:P:275:ARG:HG2	3:P:278:ARG:HH22	1.67	0.58
3:P:501:VAL:CG1	3:P:502:PRO:CD	2.77	0.58
5:R:449:THR:OG1	5:R:504:PRO:CG	2.33	0.58
2:C:1235:LEU:HB3	2:C:1237:HIS:H	1.69	0.58
2:C:495:ALA:O	2:C:498:ILE:HB	2.02	0.58
2:C:30:ILE:HD11	2:C:575:LEU:CD2	2.33	0.58
2:C:618:GLN:O	2:C:621:SER:OG	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1116:HIS:CD2	3:D:641:ILE:HG12	2.39	0.58
3:D:803:VAL:CG2	3:D:1313:SER:OG	2.50	0.58
4:E:2:ALA:N	4:E:6:VAL:HA	2.17	0.58
2:I:496:LYS:HD3	5:L:468:ARG:HH21	1.68	0.58
2:I:519:ASN:HD22	2:I:796:LEU:CD2	2.16	0.58
2:I:82:VAL:O	2:I:86:GLN:HG3	2.03	0.58
5:L:365:MET:O	5:L:369:GLU:HG3	2.04	0.58
5:L:386:LEU:HD22	6:4:41:DT:C4	2.38	0.58
2:O:403:MET:HE3	2:O:404:LYS:HA	1.84	0.58
2:O:678:ARG:CZ	2:O:1106:ARG:HB3	2.33	0.58
3:P:233:LYS:HE2	3:P:236:TRP:CE2	2.33	0.58
5:R:508:GLU:O	5:R:518:HIS:HB3	2.03	0.58
6:1:50:DT:O5'	6:1:51:DC:C5	2.56	0.58
7:8:51:DG:C2'	7:8:52:DT:H71	2.32	0.58
1:A:47:LEU:HD13	1:A:183:ILE:HD11	1.84	0.58
2:C:1108:ASN:N	2:C:1108:ASN:OD1	2.36	0.58
2:C:1232:MET:C	2:C:1233:LEU:HG	2.23	0.58
2:C:402:ARG:HG2	2:C:416:GLY:CA	2.33	0.58
2:C:53:PHE:O	2:C:57:PHE:HB2	2.03	0.58
2:C:709:ALA:O	2:C:712:SER:OG	2.20	0.58
2:C:823:VAL:CG1	2:C:1059:ARG:HD3	2.34	0.58
3:D:24:LEU:HD12	3:D:232:ASN:HB3	1.85	0.58
2:C:1273:MET:HB3	3:D:428:THR:CB	2.32	0.58
3:D:515:ARG:NH2	3:D:718:SER:O	2.34	0.58
1:H:162:GLU:HG2	1:H:164:ASP:HB3	1.84	0.58
2:I:561:ILE:HD11	2:I:661:VAL:HG21	1.85	0.58
3:J:306:LEU:O	3:J:326:SER:HB2	2.02	0.58
2:I:1104:PRO:HG2	3:J:725:MET:CE	2.33	0.58
4:K:28:ARG:HG3	4:K:28:ARG:NH1	2.19	0.58
5:L:386:LEU:HD13	6:4:41:DT:O4'	2.03	0.58
3:P:166:LEU:HD23	3:P:169:LEU:CD2	2.33	0.58
3:P:786:THR:HG23	3:P:787:ALA:N	2.18	0.58
5:R:96:ASP:OD2	5:R:98:VAL:HB	2.03	0.58
6:1:15:DG:H2''	6:1:16:DA:OP2	2.02	0.58
1:A:43:LEU:O	1:A:47:LEU:HG	2.03	0.58
2:C:371:ARG:HB3	5:F:99:ARG:NH1	2.18	0.58
2:C:808:ASN:N	2:C:808:ASN:HD22	2.01	0.58
2:C:560:PRO:HB2	3:D:776:THR:HG21	1.85	0.58
1:H:102:LEU:HD11	1:H:114:ASP:HB3	1.85	0.58
2:I:634:VAL:HG12	2:I:635:THR:N	2.18	0.58
3:J:130:MET:CG	3:J:135:ILE:HG12	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:ARG:NH1	3:J:538:ARG:HD2	2.15	0.58
3:P:1256:ILE:HG22	3:P:1260:MET:HE2	1.85	0.58
5:R:166:VAL:HG12	5:R:167:ASP:H	1.66	0.58
5:R:279:ARG:HH21	5:R:347:ILE:HD13	1.68	0.58
5:R:451:ARG:NH2	6:7:32:DA:OP1	2.36	0.58
1:A:86:LYS:HE3	1:A:173:VAL:CG1	2.33	0.58
1:B:67:GLU:O	1:B:78:ILE:HB	2.04	0.58
2:C:895:LEU:HD13	2:C:900:LYS:HG2	1.84	0.58
3:D:412:LEU:HD11	3:D:416:ILE:HD11	1.84	0.58
3:D:551:ARG:O	3:D:552:ILE:HD13	2.03	0.58
4:E:27:ALA:HA	4:E:30:MET:HG3	1.86	0.58
5:F:292:VAL:HG21	5:F:299:LYS:HE2	1.86	0.58
2:I:1309:VAL:HG12	2:I:1310:ASP:OD1	2.04	0.58
3:J:233:LYS:HG2	3:J:235:GLU:HG3	1.85	0.58
5:R:464:ASN:CG	7:8:25:DA:H62	2.07	0.58
7:2:5:DC:H2''	7:2:6:DG:H5'	1.86	0.58
7:5:23:DT:H71	7:5:24:DT:H72	1.84	0.58
2:C:1087:TYR:HE1	2:C:1215:GLY:HA2	1.69	0.58
2:C:27:LEU:HD23	2:C:528:ARG:NH2	2.18	0.58
2:C:720:ARG:HD2	2:C:736:VAL:HG21	1.85	0.58
3:D:587:LEU:HD21	3:D:612:LEU:HD21	1.86	0.58
1:H:85:LEU:HD21	1:H:130:ILE:HG21	1.84	0.58
2:I:275:ARG:NH2	2:I:279:LYS:HD3	2.18	0.58
2:I:898:GLU:HB2	5:L:544:THR:HG21	1.86	0.58
3:J:644:MET:HG3	3:J:722:ILE:HD11	1.85	0.58
5:L:171:GLU:OE1	5:L:258:GLN:NE2	2.37	0.58
1:N:101:THR:HG22	1:N:143:ARG:HG2	1.85	0.58
3:P:1229:VAL:O	3:P:1233:ILE:HG13	2.04	0.58
3:P:306:LEU:HG	3:P:307:LEU:N	2.14	0.58
1:B:154:PRO:HD2	1:B:157:THR:HB	1.86	0.58
2:C:700:VAL:CG1	2:C:1117:LEU:HD23	2.29	0.58
3:D:30:ILE:HD13	3:D:243:PRO:HD3	1.86	0.58
3:D:536:LEU:HD22	3:D:541:LEU:HB3	1.85	0.58
3:D:739:GLN:HG2	3:D:744:ARG:HA	1.86	0.58
3:D:826:ILE:HG12	3:D:831:VAL:HG22	1.86	0.58
2:I:964:LEU:HD11	2:I:1021:LEU:HD22	1.84	0.58
2:I:151:ARG:HD2	2:I:445:ILE:CG2	2.33	0.58
3:J:127:LEU:HD11	3:J:227:PHE:HE2	1.67	0.58
2:O:1331:ARG:HD3	3:P:33:TRP:CE3	2.38	0.58
2:O:232:ILE:HD13	2:O:326:SER:HB3	1.85	0.58
2:O:120:GLN:CG	2:O:489:PRO:HG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:275:ARG:NH2	5:R:400:GLN:OE1	2.36	0.58
5:R:451:ARG:HH22	6:7:32:DA:P	2.27	0.58
5:R:552:THR:O	5:R:555:GLU:HB2	2.04	0.58
2:C:1105:SER:HB3	3:D:731:ARG:CG	2.33	0.58
2:C:1116:HIS:HE1	2:C:1226:THR:HG23	1.68	0.58
2:C:251:ALA:CB	2:C:263:VAL:CG1	2.82	0.58
3:D:232:ASN:HA	3:D:236:TRP:CZ3	2.39	0.58
2:I:1269:ARG:HH12	3:J:340:GLN:HA	1.66	0.58
3:J:620:PHE:O	3:J:624:ILE:HG13	2.03	0.58
5:L:583:THR:HB	5:L:587:ILE:HD11	1.85	0.58
1:M:56:VAL:HG13	1:M:144:ILE:CG2	2.34	0.58
2:O:1137:GLU:HG2	2:O:1139:ALA:H	1.69	0.58
2:O:335:THR:C	2:O:336:LEU:HD23	2.24	0.58
2:O:90:VAL:HG12	2:O:91:THR:N	2.19	0.58
2:C:49:LEU:HD13	2:C:73:TYR:CZ	2.38	0.57
2:C:851:THR:CG2	2:C:852:ALA:N	2.66	0.57
3:D:1221:LEU:HG	3:D:1222:ARG:N	2.16	0.57
2:C:809:GLY:HA3	3:D:629:PHE:CE1	2.39	0.57
2:I:122:VAL:HG11	2:I:493:ILE:CD1	2.32	0.57
2:I:146:VAL:HG12	2:I:147:SER:O	2.04	0.57
2:I:661:VAL:HG13	2:I:665:ALA:HB3	1.79	0.57
2:O:197:ARG:HB3	2:O:200:ARG:CA	2.34	0.57
2:O:589:THR:HG22	2:O:590:PRO:CD	2.19	0.57
2:O:812:PHE:O	2:O:1099:ASN:ND2	2.37	0.57
3:P:117:LEU:HD13	3:P:124:ILE:CD1	2.33	0.57
3:P:661:VAL:HG12	3:P:665:GLN:HE21	1.68	0.57
3:P:888:CYS:SG	3:P:898:CYS:SG	3.02	0.57
6:7:13:DT:C2	6:7:14:DT:C5	2.93	0.57
6:7:47:DC:H2'	6:7:48:DA:C8	2.39	0.57
6:7:52:DT:OP2	6:7:52:DT:H2'	2.04	0.57
1:A:47:LEU:CD1	1:A:183:ILE:HD11	2.35	0.57
2:C:425:ILE:HG22	2:C:426:ILE:N	2.18	0.57
2:C:459:MET:HE2	2:C:459:MET:CA	2.32	0.57
3:D:97:VAL:HG12	3:D:101:ARG:HG3	1.86	0.57
3:D:471:PRO:HB2	3:D:476:ALA:CB	2.33	0.57
3:D:797:THR:HG21	3:D:924:GLY:HA3	1.85	0.57
5:F:502:LYS:HD2	5:F:503:GLU:H	1.69	0.57
1:H:152:TYR:HE1	1:H:176:CYS:HG	1.52	0.57
2:I:15:PHE:HE2	2:I:1182:ILE:HD13	1.69	0.57
2:I:505:PHE:O	2:I:509:SER:HB3	2.03	0.57
2:I:528:ARG:HD2	2:I:663:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:525:THR:HG21	2:I:687:ARG:HD2	1.86	0.57
2:I:878:THR:CG2	2:I:879:GLY:H	2.17	0.57
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.33	0.57
3:J:712:GLN:C	3:J:713:GLU:HG3	2.25	0.57
3:J:823:THR:CB	3:J:824:PRO:CD	2.76	0.57
3:J:868:TRP:O	3:J:872:LEU:HD21	2.04	0.57
3:J:899:TYR:CZ	3:J:915:ILE:CG2	2.87	0.57
2:O:706:ARG:O	2:O:710:VAL:HG23	2.04	0.57
3:P:307:LEU:HA	3:P:327:LEU:HD12	1.86	0.57
3:P:406:ALA:HA	3:P:409:TRP:HD1	1.67	0.57
5:R:345:GLN:O	5:R:348:GLU:HB2	2.04	0.57
6:1:21:DC:O2	7:2:43:DG:N2	2.37	0.57
6:1:43:DT:C3'	6:1:44:DG:H5''	2.34	0.57
6:1:46:DG:C5'	6:1:46:DG:C8	2.87	0.57
1:A:203:ILE:HG22	1:A:205:MET:HE2	1.85	0.57
2:I:1278:LEU:HD11	2:I:1286:THR:HB	1.87	0.57
3:J:108:ALA:HB3	3:J:279:LEU:HD21	1.86	0.57
3:J:1163:VAL:HG12	3:J:1164:SER:H	1.68	0.57
3:J:1194:ARG:HD3	3:J:1211:SER:HB3	1.84	0.57
3:J:927:GLY:O	3:J:931:THR:HG23	2.04	0.57
5:L:573:LEU:HD22	7:5:45:DT:C2'	2.30	0.57
1:N:47:LEU:HD22	1:N:205:MET:HE1	1.86	0.57
2:O:529:ARG:C	2:O:530:ILE:HG13	2.25	0.57
2:O:759:SER:CB	2:O:765:ILE:HD11	2.34	0.57
3:P:143:SER:OG	3:P:159:ILE:HG22	2.05	0.57
3:P:212:THR:HG22	3:P:215:LYS:HZ1	1.65	0.57
5:R:494:ILE:HG22	5:R:495:ARG:N	2.19	0.57
1:A:43:LEU:C	1:A:47:LEU:HD12	2.25	0.57
1:A:69:SER:O	1:A:78:ILE:CG1	2.52	0.57
1:B:43:LEU:O	1:B:47:LEU:HD12	2.04	0.57
2:C:1225:VAL:CG1	2:C:1226:THR:N	2.67	0.57
3:D:1078:LEU:CD1	3:D:1121:LEU:HB3	2.34	0.57
3:D:303:VAL:O	3:D:307:LEU:HG	2.04	0.57
3:D:883:ARG:HG2	3:D:898:CYS:HA	1.86	0.57
1:G:150:ARG:NH1	1:H:7:GLU:O	2.37	0.57
5:L:271:ASN:O	5:L:275:VAL:HG23	2.04	0.57
5:L:92:GLY:C	5:L:93:ARG:HG2	2.25	0.57
1:N:95:LYS:CE	1:N:120:ASP:OD2	2.52	0.57
2:O:1305:TYR:CA	2:O:1308:ILE:HD12	2.26	0.57
2:O:168:GLY:O	3:P:1065:ALA:HB1	2.04	0.57
3:P:285:LEU:HD13	5:R:413:MET:HG3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:339:ARG:CZ	3:P:798:ARG:NH2	2.67	0.57
3:P:932:MET:CE	8:9:16:U:H3'	2.34	0.57
4:Q:26:ARG:O	4:Q:30:MET:HG3	2.04	0.57
7:5:6:DG:C2'	7:5:7:DC:O5'	2.52	0.57
1:H:27:THR:HG22	1:H:202:VAL:HG13	1.86	0.57
3:J:1229:VAL:O	3:J:1233:ILE:HG13	2.05	0.57
3:J:802:ASP:OD1	3:J:1325:PHE:HB2	2.04	0.57
5:L:479:THR:HB	5:L:480:PRO:HD2	1.87	0.57
2:O:1305:TYR:HA	2:O:1308:ILE:CD1	2.26	0.57
2:O:164:THR:CG2	2:O:171:LEU:CD1	2.82	0.57
5:R:471:LEU:HD23	5:R:476:ARG:O	2.04	0.57
2:C:1232:MET:O	2:C:1233:LEU:HG	2.04	0.57
2:C:1268:GLN:OE1	2:C:1268:GLN:N	2.38	0.57
2:C:402:ARG:HG2	2:C:416:GLY:HA3	1.85	0.57
5:F:339:ARG:O	5:F:342:GLN:HB2	2.04	0.57
5:F:91:ILE:HG22	5:F:91:ILE:O	2.03	0.57
2:I:1174:GLU:O	2:I:1177:ARG:HB3	2.04	0.57
2:I:883:LEU:HD21	2:I:920:VAL:CG2	2.34	0.57
5:L:507:MET:O	5:L:519:LEU:CB	2.49	0.57
5:L:581:ASP:OD1	5:L:582:VAL:HG23	2.05	0.57
1:M:26:VAL:HG11	1:M:217:ILE:HD13	1.87	0.57
1:N:35:PHE:O	1:N:39:LEU:HG	2.03	0.57
2:O:672:GLU:CG	2:O:1187:PHE:HA	2.35	0.57
2:O:1282:GLY:HA3	4:Q:17:PHE:CZ	2.34	0.57
2:O:292:ILE:HD13	2:O:322:LEU:HD21	1.85	0.57
2:O:838:CYS:HG	2:O:886:LYS:HE3	1.63	0.57
2:C:1198:LEU:O	2:C:1198:LEU:HG	2.02	0.57
2:C:689:ALA:HB1	2:C:1233:LEU:HD22	1.86	0.57
2:C:168:GLY:O	3:D:1065:ALA:CB	2.53	0.57
2:I:1246:ARG:CZ	2:I:1249:GLY:CA	2.82	0.57
2:I:1275:VAL:O	2:I:1279:GLU:CG	2.52	0.57
1:N:27:THR:HG22	1:N:202:VAL:HG13	1.87	0.57
2:C:387:ASN:HA	2:C:391:SER:HB2	1.86	0.57
3:D:433:GLY:O	3:D:457:TYR:CE1	2.57	0.57
3:D:839:VAL:CG1	3:D:839:VAL:O	2.53	0.57
1:G:134:THR:HG21	2:I:727:VAL:O	2.05	0.57
2:I:976:ARG:O	2:I:980:VAL:HG23	2.05	0.57
3:J:1109:LEU:CD1	3:J:1115:ILE:HG22	2.34	0.57
3:J:1145:PHE:CZ	3:J:1253:ILE:HG23	2.39	0.57
3:J:599:LYS:HG3	3:J:600:ALA:H	1.70	0.57
3:J:608:CYS:SG	3:J:617:THR:CG2	2.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:625:MET:HG2	3:J:629:PHE:CE2	2.39	0.57
3:J:673:VAL:HG12	3:J:674:THR:O	2.04	0.57
3:J:875:ASN:O	3:J:876:SER:HB2	2.04	0.57
2:O:1043:ALA:HB3	2:O:1046:VAL:HG21	1.86	0.57
2:O:1294:LYS:CB	3:P:347:VAL:HG13	2.34	0.57
3:P:275:ARG:HD3	3:P:298:MET:HB3	1.85	0.57
3:P:490:ILE:HG12	3:P:500:ILE:HD12	1.87	0.57
5:R:166:VAL:HG12	5:R:167:ASP:N	2.19	0.57
3:D:352:ARG:CZ	7:2:16:DC:H4'	2.34	0.57
6:7:49:DG:C8	6:7:49:DG:H3'	2.40	0.57
1:B:48:LEU:HD11	1:B:183:ILE:HG22	1.87	0.57
2:C:1252:SER:HB3	2:C:1257:GLN:O	2.05	0.57
3:D:1060:VAL:HG22	3:D:1106:ILE:HG12	1.87	0.57
1:G:230:ALA:HB1	1:H:11:PRO:O	2.04	0.57
2:I:26:TYR:CE2	2:I:32:LEU:HD12	2.40	0.57
2:I:514:PHE:HE2	7:5:19:DA:N3	2.02	0.57
2:I:61:SER:HB2	2:I:66:SER:OG	2.04	0.57
3:J:201:LEU:HD11	3:J:220:ARG:HH11	1.68	0.57
3:J:245:LEU:O	3:J:250:ARG:NE	2.26	0.57
3:J:353:SER:C	3:J:447:ILE:HD11	2.25	0.57
2:O:342:ASP:HB3	2:O:343:HIS:CD2	2.40	0.57
2:O:770:CYS:HB2	2:O:783:LEU:O	2.04	0.57
2:O:470:ARG:HH22	5:R:397:ARG:NH1	2.03	0.57
6:7:28:DA:C2	7:8:36:DG:N2	2.73	0.57
1:A:109:PRO:CB	1:A:132:HIS:CD2	2.86	0.57
1:B:140:ILE:HG12	1:B:142:MET:HE1	1.87	0.57
1:B:37:HIS:CE1	1:B:187:VAL:HG21	2.40	0.57
2:C:1273:MET:HA	2:C:1276:TRP:CE3	2.40	0.57
2:C:653:MET:HE2	2:C:654:ASP:O	2.04	0.57
3:D:178:ALA:O	3:D:179:LYS:HG3	2.05	0.57
3:D:464:ASP:OD1	8:3:15:G:O2'	2.22	0.57
5:F:353:LEU:HB3	5:F:358:VAL:HG22	1.87	0.57
1:G:227:GLN:HG3	1:H:35:PHE:HE1	1.70	0.57
2:I:209:ILE:HG23	2:I:210:LEU:N	2.20	0.57
2:I:953:LEU:HD13	2:I:954:LYS:HZ3	1.67	0.57
2:I:436:ARG:NH2	3:J:1068:THR:HG22	2.20	0.57
3:J:233:LYS:HG3	3:J:234:PRO:HD2	1.85	0.57
2:I:1294:LYS:HD3	3:J:347:VAL:CG1	2.35	0.57
3:J:437:PHE:O	3:J:439:PRO:HD3	2.05	0.57
3:J:521:LYS:CB	3:J:543:SER:HB2	2.34	0.57
2:O:716:ALA:HB3	2:O:784:ALA:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:870:ILE:HG22	2:O:871:VAL:O	2.04	0.57
3:P:246:PRO:HB2	3:P:249:LEU:CD1	2.35	0.57
5:F:583:THR:OG1	6:1:13:DT:OP2	2.19	0.56
3:D:270:ARG:HE	5:F:449:THR:HG23	1.68	0.56
2:I:22:LEU:HG	2:I:23:ASP:N	2.20	0.56
3:J:1275:LEU:HG	3:J:1276:GLU:H	1.69	0.56
3:J:360:TYR:CD1	3:J:360:TYR:C	2.77	0.56
5:L:392:LYS:HA	5:L:395:THR:CG2	2.35	0.56
2:O:1314:GLN:HA	4:Q:28:ARG:HH21	1.69	0.56
3:P:97:VAL:CG1	3:P:101:ARG:HG3	2.33	0.56
3:P:1138:LEU:HG	3:P:1139:PRO:HD3	1.87	0.56
1:A:51:MET:SD	1:A:52:PRO:HD2	2.45	0.56
2:C:198:ILE:HD13	2:C:389:PHE:HE1	1.70	0.56
2:C:57:PHE:CD1	2:C:58:PRO:HA	2.40	0.56
2:C:607:SER:H	2:C:610:GLU:CD	2.09	0.56
3:D:207:GLU:O	3:D:208:THR:HG23	2.04	0.56
1:G:224:LEU:HG	1:H:228:LEU:HD11	1.86	0.56
2:I:1242:LYS:HE2	3:J:465:GLN:NE2	2.18	0.56
2:I:1282:GLY:HA3	4:K:17:PHE:CE1	2.40	0.56
1:N:192:VAL:HG11	1:N:198:LEU:HD22	1.85	0.56
2:O:202:ARG:H	2:O:369:MET:HE3	1.69	0.56
3:P:1024:THR:HG21	3:P:1123:ARG:NE	2.20	0.56
3:P:1271:SER:HB3	3:P:1297:LYS:HZ2	1.68	0.56
3:P:363:LEU:HA	3:P:450:HIS:CE1	2.39	0.56
5:R:595:LEU:O	5:R:599:ARG:HG3	2.05	0.56
1:B:190:ALA:HB3	1:B:199:ASP:HA	1.87	0.56
1:B:227:GLN:O	1:B:231:PHE:CE2	2.58	0.56
3:D:513:MET:SD	3:D:631:TYR:CD2	2.98	0.56
2:I:374:GLU:OE1	5:L:99:ARG:NH1	2.38	0.56
3:J:1323:ALA:HB2	3:J:1332:LEU:CD2	2.35	0.56
3:J:521:LYS:HB3	3:J:543:SER:N	2.20	0.56
3:J:65:VAL:HB	3:J:66:LYS:HG3	1.87	0.56
1:M:225:ALA:HA	1:M:228:LEU:HD12	1.86	0.56
2:O:1184:THR:HG23	2:O:1184:THR:O	2.05	0.56
3:P:50:LYS:HE2	3:P:71:LEU:HD22	1.86	0.56
2:O:897:PRO:CB	5:R:565:ILE:HG12	2.23	0.56
1:A:140:ILE:HD13	1:A:141:SER:N	2.19	0.56
1:A:83:LEU:HA	1:A:86:LYS:HD2	1.86	0.56
2:C:996:ARG:C	2:C:997:TRP:HD1	2.09	0.56
3:D:57:PHE:CD1	3:D:247:PRO:HB3	2.41	0.56
2:I:1120:ALA:O	2:I:1124:ILE:HG13	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:96:LEU:HB2	2:I:127:ILE:CD1	2.33	0.56
3:J:698:MET:O	3:J:702:GLN:CB	2.54	0.56
5:L:216:LEU:O	5:L:220:LYS:HG2	2.05	0.56
5:L:532:LEU:O	5:L:536:THR:OG1	2.17	0.56
2:O:1294:LYS:HB3	3:P:347:VAL:CG1	2.35	0.56
3:P:146:VAL:HG22	3:P:154:LEU:HD13	1.85	0.56
2:O:1109:ILE:CD1	3:P:740:LEU:HD22	2.29	0.56
5:R:452:ILE:HG22	5:R:457:ILE:HG12	1.87	0.56
1:B:59:VAL:CG1	1:B:144:ILE:HG12	2.36	0.56
2:C:196:VAL:HG23	2:C:206:ALA:HA	1.87	0.56
3:D:107:LEU:HG	3:D:240:THR:O	2.04	0.56
2:I:764:CYS:HA	2:I:833:ILE:HD11	1.88	0.56
2:I:715:THR:HG22	2:I:786:GLY:H	1.70	0.56
3:J:1350:ASN:HA	3:J:1353:VAL:HG22	1.88	0.56
3:J:1367:GLN:O	3:J:1370:MET:HB2	2.05	0.56
3:J:736:GLN:CA	3:J:736:GLN:NE2	2.68	0.56
5:L:563:PHE:HB2	5:L:565:ILE:CG1	2.34	0.56
1:N:158:ARG:HD2	1:N:172:LEU:HD11	1.88	0.56
1:A:155:ALA:HA	1:A:172:LEU:HD21	1.88	0.56
1:A:149:GLY:O	1:A:177:TYR:HB3	2.06	0.56
2:C:607:SER:OG	2:C:610:GLU:HG3	2.05	0.56
2:C:660:VAL:HB	2:C:661:VAL:HG23	1.87	0.56
3:D:772:TYR:O	3:D:775:SER:OG	2.23	0.56
2:I:1172:LEU:O	2:I:1176:LEU:HG	2.05	0.56
2:I:1313:HIS:CE1	3:J:380:PHE:HE1	2.24	0.56
3:J:1310:THR:O	3:J:1314:LEU:HG	2.06	0.56
3:J:435:GLN:HB3	3:J:437:PHE:CE1	2.40	0.56
3:J:594:GLN:HE21	3:J:600:ALA:HB2	1.69	0.56
3:J:964:LYS:CB	3:J:977:SER:HB3	2.34	0.56
4:K:48:VAL:HA	4:K:51:LEU:CG	2.35	0.56
1:M:81:ILE:HG23	1:M:130:ILE:CG2	2.35	0.56
2:O:113:THR:OG1	2:O:113:THR:O	2.24	0.56
3:P:309:ASN:HD21	3:P:316:ILE:HB	1.70	0.56
3:P:797:THR:HA	3:P:800:LEU:HD12	1.86	0.56
2:I:542:ARG:NH1	6:4:49:DG:C8	2.74	0.56
2:C:1014:LEU:O	2:C:1017:GLN:HB3	2.05	0.56
2:C:1098:LEU:HD23	2:C:1099:ASN:N	2.21	0.56
2:C:251:ALA:CB	2:C:263:VAL:HG11	2.35	0.56
3:D:1032:SER:OG	3:D:1117:SER:HB3	2.06	0.56
3:D:555:TYR:HB3	3:D:586:GLY:HA2	1.88	0.56
2:I:153:PRO:HA	2:I:177:ILE:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1285:VAL:CG1	3:J:1286:LYS:N	2.67	0.56
3:J:591:ILE:HG22	3:J:592:VAL:N	2.19	0.56
1:M:79:LEU:O	1:M:82:LEU:HB2	2.05	0.56
1:N:42:ALA:O	1:N:46:ILE:HD12	2.05	0.56
2:O:1253:LEU:HD13	5:R:525:ASP:HA	1.88	0.56
2:O:661:VAL:HG13	2:O:665:ALA:CB	2.32	0.56
3:P:118:LYS:HZ2	3:P:132:LEU:HD21	1.69	0.56
3:P:233:LYS:CE	3:P:236:TRP:NE1	2.42	0.56
3:P:407:VAL:O	3:P:411:ILE:HG13	2.04	0.56
6:4:43:DT:C3'	6:4:44:DG:H5''	2.36	0.56
7:5:25:DA:H1'	7:5:26:DT:H5''	1.88	0.56
5:R:102:MET:HE2	6:7:43:DT:O2	2.06	0.56
1:B:100:LEU:CD1	1:B:115:ILE:HG21	2.23	0.56
3:D:1031:VAL:HG13	3:D:1091:PRO:HD3	1.86	0.56
3:D:102:MET:HE3	3:D:246:PRO:HD3	1.87	0.56
2:I:1184:THR:O	2:I:1184:THR:HG23	2.06	0.56
2:I:149:LEU:CD2	2:I:451:ARG:NH2	2.69	0.56
3:J:309:ASN:HD21	3:J:316:ILE:H	1.54	0.56
4:K:45:LYS:O	4:K:49:ILE:HG13	2.06	0.56
5:L:381:GLU:O	5:L:384:LEU:HG	2.05	0.56
3:J:142:GLU:HG3	5:L:88:GLU:OE1	2.05	0.56
1:N:12:ARG:NH1	1:N:12:ARG:HB3	2.21	0.56
2:O:204:LEU:CB	2:O:205:PRO:HD2	2.22	0.56
2:O:662:SER:OG	2:O:663:VAL:N	2.38	0.56
2:O:896:THR:HB	2:O:898:GLU:OE2	2.06	0.56
3:P:1138:LEU:HG	3:P:1139:PRO:CD	2.36	0.56
3:P:1326:GLN:NE2	7:8:11:DA:H4'	2.21	0.56
3:P:783:LEU:CD1	3:P:936:HIS:HB2	2.36	0.56
5:R:269:LEU:O	5:R:273:MET:HE1	2.04	0.56
5:R:462:LYS:O	5:R:466:ILE:HG13	2.06	0.56
1:A:224:LEU:O	1:A:224:LEU:HD12	2.06	0.56
1:B:106:GLY:HA2	1:B:136:GLU:HA	1.87	0.56
3:D:512:TYR:CD2	3:D:635:SER:HB2	2.41	0.56
3:D:812:ASP:N	3:D:812:ASP:OD1	2.36	0.56
3:J:132:LEU:HA	3:J:135:ILE:CD1	2.35	0.56
3:J:762:ASN:OD1	3:J:765:GLU:N	2.34	0.56
5:L:583:THR:HG21	5:L:586:ARG:HB3	1.83	0.56
1:M:71:LYS:O	1:M:74:VAL:HB	2.05	0.56
2:O:428:VAL:HG12	2:O:429:MET:N	2.20	0.56
3:P:1096:PRO:O	3:P:1098:GLN:N	2.38	0.56
5:R:110:LEU:HD12	5:R:110:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:VAL:HB	1:A:195:ARG:O	2.05	0.56
2:C:523:GLU:HG3	2:C:527:LYS:HE3	1.88	0.56
2:C:168:GLY:O	3:D:1065:ALA:HA	2.06	0.56
3:D:115:TRP:CH2	3:D:1329:THR:HA	2.40	0.56
3:D:427:PRO:O	3:D:429:LEU:HG	2.05	0.56
1:G:11:PRO:HB3	1:G:31:LEU:HD23	1.88	0.56
2:I:1164:PHE:CD2	2:I:1164:PHE:N	2.74	0.56
3:J:508:LEU:O	3:J:508:LEU:HD12	2.06	0.56
5:L:483:LEU:O	5:L:487:MET:HG3	2.06	0.56
1:N:74:VAL:HG22	1:N:133:LEU:CD2	2.36	0.56
3:P:1330:ARG:NH2	7:8:9:DT:O3'	2.39	0.56
2:O:1311:GLY:O	4:Q:31:GLN:HG2	2.06	0.56
5:R:402:LEU:HD23	5:R:402:LEU:N	2.20	0.56
1:A:235:ARG:HA	1:B:218:ARG:CZ	2.36	0.56
1:B:190:ALA:HB2	1:B:199:ASP:HA	1.88	0.56
2:C:476:LYS:HA	2:C:479:LEU:HD12	1.87	0.56
3:D:1314:LEU:HD21	3:D:1325:PHE:HD2	1.69	0.56
5:F:506:SER:O	5:F:509:THR:OG1	2.21	0.56
2:I:335:THR:C	2:I:336:LEU:HD23	2.25	0.56
2:I:695:ALA:HB1	2:I:795:ALA:CB	2.36	0.56
1:M:75:GLN:HE22	2:O:727:VAL:CB	2.11	0.56
2:O:12:ARG:HD3	2:O:1183:ALA:HB2	1.87	0.56
3:P:975:ILE:HD11	3:P:1003:LEU:HD11	1.88	0.56
3:P:1152:GLU:HB3	3:P:1194:ARG:HH12	1.71	0.56
3:P:294:ASN:HD21	5:R:101:TYR:HB2	1.70	0.56
2:C:759:SER:HA	2:C:765:ILE:HD11	1.88	0.55
3:D:310:GLY:CA	3:D:315:ALA:HB2	2.36	0.55
1:G:75:GLN:NE2	2:I:727:VAL:HB	2.21	0.55
2:I:1212:LEU:HD12	2:I:1225:VAL:HB	1.88	0.55
2:I:720:ARG:CD	2:I:736:VAL:HG21	2.37	0.55
3:J:378:LYS:HE2	3:J:382:TYR:OH	2.05	0.55
5:L:333:VAL:O	5:L:337:VAL:HG23	2.06	0.55
5:L:461:ASN:N	5:L:461:ASN:OD1	2.36	0.55
2:O:335:THR:CG2	2:O:336:LEU:N	2.68	0.55
5:R:407:GLU:HG2	5:R:442:SER:CB	2.35	0.55
3:D:886:VAL:HG21	3:D:1230:THR:HG21	1.87	0.55
1:G:86:LYS:HE3	1:G:173:VAL:HG12	1.88	0.55
1:G:185:TYR:CD2	1:G:185:TYR:O	2.59	0.55
1:G:39:LEU:O	1:G:43:LEU:HD12	2.07	0.55
2:I:1294:LYS:HB3	3:J:347:VAL:HG13	1.87	0.55
2:I:402:ARG:NH2	2:I:417:SER:O	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:790:ASP:HB2	2:I:795:ALA:HB2	1.87	0.55
3:J:711:GLY:O	3:P:1302:TYR:CE2	2.60	0.55
1:N:44:ARG:HE	1:N:185:TYR:HE1	1.53	0.55
2:O:8:LYS:HD3	2:O:1168:GLU:CD	2.26	0.55
2:O:136:PHE:HB3	2:O:138:ILE:HD11	1.87	0.55
2:O:426:ILE:HG22	2:O:427:ASP:N	2.20	0.55
3:P:166:LEU:HD23	3:P:169:LEU:HD22	1.87	0.55
2:O:1334:GLY:O	3:P:25:ALA:HB2	2.05	0.55
3:P:678:ARG:HH11	3:P:678:ARG:HG2	1.71	0.55
3:P:839:VAL:CG1	3:P:864:LEU:HD12	2.33	0.55
3:P:894:VAL:HG21	3:P:915:ILE:HD12	1.88	0.55
1:B:169:GLY:O	1:B:171:LEU:HG	2.06	0.55
1:B:190:ALA:CB	1:B:199:ASP:C	2.71	0.55
2:C:501:ALA:O	2:C:504:GLU:HB2	2.06	0.55
2:C:521:LEU:HD21	2:C:686:GLN:HB3	1.87	0.55
2:C:798:GLN:HG2	2:C:827:ARG:HH21	1.72	0.55
2:C:810:TYR:CE1	3:D:359:PRO:HG3	2.41	0.55
2:C:886:LYS:HD2	2:C:916:SER:CB	2.18	0.55
3:D:1226:VAL:O	3:D:1229:VAL:HG12	2.07	0.55
3:D:282:LEU:HD11	3:D:291:ILE:HG22	1.88	0.55
3:D:368:LEU:HG	3:D:373:ALA:HB2	1.88	0.55
3:D:502:PRO:CB	3:D:601:ILE:HD13	2.35	0.55
2:C:1104:PRO:CG	3:D:725:MET:HE1	2.29	0.55
3:D:931:THR:O	3:D:935:PHE:CD2	2.60	0.55
1:G:145:LYS:HD3	1:G:147:GLN:HE21	1.70	0.55
1:G:230:ALA:CB	1:H:11:PRO:HB2	2.36	0.55
2:I:1257:GLN:HG2	2:I:1296:ASP:OD1	2.06	0.55
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.89	0.55
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.39	0.55
2:O:1122:LYS:HG3	2:O:1229:TYR:CZ	2.41	0.55
2:O:15:PHE:HE2	2:O:1182:ILE:HD13	1.71	0.55
2:O:678:ARG:NE	2:O:1106:ARG:HB3	2.20	0.55
3:P:118:LYS:NZ	3:P:132:LEU:HD21	2.21	0.55
3:P:378:LYS:HE2	3:P:382:TYR:OH	2.05	0.55
3:P:423:LEU:HB3	3:P:466:MET:HE1	1.87	0.55
3:P:478:LEU:HB3	4:Q:20:VAL:HG13	1.87	0.55
3:P:570:LYS:HD2	3:P:589:TYR:CD2	2.42	0.55
5:R:290:LEU:O	5:R:294:GLN:HB3	2.07	0.55
7:2:4:DC:C4	7:2:5:DC:N4	2.75	0.55
2:C:902:LEU:HD12	2:C:905:ILE:HD12	1.87	0.55
3:D:1191:PRO:HD2	3:D:1194:ARG:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:255:LEU:HD22	3:D:256:ASP:OD1	2.06	0.55
3:D:421:VAL:CG1	3:D:468:VAL:HG12	2.36	0.55
5:F:315:TRP:CH2	5:F:341:LEU:HD11	2.41	0.55
1:H:97:GLU:HB2	1:H:147:GLN:HG2	1.88	0.55
2:I:363:LEU:CD2	2:I:385:PHE:HB2	2.37	0.55
3:J:470:VAL:O	3:J:472:LEU:CD2	2.51	0.55
3:J:572:THR:OG1	3:J:576:ARG:HB2	2.07	0.55
3:J:865:HIS:HB3	3:J:868:TRP:HD1	1.71	0.55
1:N:179:PRO:CG	1:N:211:ILE:HD12	2.20	0.55
2:O:237:LEU:O	2:O:287:VAL:HG13	2.06	0.55
2:O:344:GLY:CA	2:O:346:TYR:CE2	2.77	0.55
2:O:599:VAL:CG2	2:O:623:LEU:HD22	2.30	0.55
3:P:1135:THR:O	3:P:1139:PRO:HD2	2.07	0.55
3:P:398:LYS:HZ3	5:R:532:LEU:HB3	1.71	0.55
3:P:508:LEU:O	3:P:508:LEU:HD12	2.06	0.55
3:P:599:LYS:HG3	3:P:600:ALA:H	1.71	0.55
2:O:373:GLY:CA	5:R:91:ILE:HG12	2.37	0.55
1:B:9:LEU:HD23	1:B:32:GLU:N	2.20	0.55
1:B:57:THR:CG2	1:B:158:ARG:NH1	2.69	0.55
2:C:528:ARG:CD	2:C:663:VAL:HG21	2.30	0.55
2:C:725:GLN:O	2:C:773:LEU:CD1	2.53	0.55
3:D:1176:VAL:HG22	3:D:1187:GLU:HG2	1.89	0.55
3:D:76:LYS:O	3:D:80:HIS:ND1	2.39	0.55
3:D:966:VAL:HG13	3:D:966:VAL:O	2.06	0.55
2:I:160:ASP:HB3	2:I:163:LYS:CG	2.37	0.55
3:J:114:ILE:HG22	3:J:307:LEU:HD12	1.87	0.55
3:J:353:SER:HB3	3:J:447:ILE:HD11	1.88	0.55
3:J:450:HIS:NE2	3:J:625:MET:SD	2.79	0.55
5:L:586:ARG:HB2	6:4:13:DT:H72	1.88	0.55
1:M:86:LYS:HE2	1:M:173:VAL:HG12	1.87	0.55
2:O:136:PHE:CB	2:O:138:ILE:HD11	2.37	0.55
3:P:104:HIS:HA	3:P:244:VAL:HG23	1.89	0.55
5:R:454:VAL:CG2	5:R:455:HIS:N	2.55	0.55
1:B:39:LEU:N	1:B:39:LEU:HD23	2.22	0.55
2:C:229:ILE:HB	2:C:240:GLU:HB2	1.87	0.55
3:D:397:ALA:O	3:D:401:VAL:HG23	2.06	0.55
3:D:572:THR:HG1	3:D:576:ARG:CB	2.20	0.55
3:D:431:ARG:HH21	3:D:904:ALA:CB	2.20	0.55
5:F:502:LYS:NZ	5:F:505:ILE:HD11	2.22	0.55
3:J:381:ILE:HD11	3:J:412:LEU:HD13	1.89	0.55
5:L:166:VAL:HG12	5:L:167:ASP:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:49:SER:HB2	1:N:33:ARG:HH12	1.71	0.55
2:O:840:SER:OG	2:O:1048:LYS:N	2.40	0.55
2:O:950:GLU:HA	2:O:953:LEU:CD1	2.37	0.55
3:P:997:VAL:CG1	3:P:1003:LEU:HD21	2.35	0.55
5:R:84:LEU:CD1	5:R:107:THR:HG21	2.37	0.55
1:A:109:PRO:CB	1:A:132:HIS:HD2	2.19	0.55
1:B:61:ILE:HB	1:B:64:VAL:CB	2.33	0.55
2:C:113:THR:OG1	2:C:113:THR:O	2.19	0.55
2:C:1286:THR:O	2:C:1289:GLU:HB2	2.06	0.55
2:C:208:ILE:HG23	2:C:209:ILE:N	2.21	0.55
2:C:232:ILE:HG23	2:C:237:LEU:CD2	2.37	0.55
2:C:402:ARG:HD2	2:C:406:ASN:HD21	1.70	0.55
2:C:424:ASP:O	2:C:428:VAL:HG23	2.07	0.55
2:C:808:ASN:HD22	3:D:633:ALA:HB2	1.70	0.55
3:D:555:TYR:CB	3:D:586:GLY:HA2	2.36	0.55
5:F:101:TYR:CE2	5:F:388:ILE:HD12	2.41	0.55
1:G:44:ARG:HA	1:G:183:ILE:HD13	1.88	0.55
2:I:448:LEU:CD1	2:I:553:THR:HB	2.36	0.55
2:I:617:ALA:HA	2:I:636:CYS:SG	2.47	0.55
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.06	0.55
3:J:1259:GLN:OE1	3:J:1262:ARG:CZ	2.55	0.55
5:L:119:ILE:O	5:L:123:ILE:HG13	2.07	0.55
5:L:362:ASN:HA	5:L:365:MET:HE2	1.87	0.55
2:O:60:GLN:O	2:O:476:LYS:CE	2.54	0.55
3:P:342:LEU:HB3	3:P:1352:ILE:HG23	1.89	0.55
3:P:351:GLY:O	3:P:468:VAL:HG23	2.06	0.55
3:P:258:GLY:HA3	5:R:499:LYS:NZ	2.21	0.55
5:R:98:VAL:HG12	5:R:99:ARG:HD3	1.88	0.55
7:5:51:DG:H2 ^o	7:5:52:DT:H71	1.89	0.55
2:C:426:ILE:O	2:C:430:LYS:HG3	2.06	0.55
3:D:481:ARG:O	3:D:485:MET:HB2	2.07	0.55
3:J:1230:THR:O	3:J:1234:VAL:HG23	2.07	0.55
3:J:309:ASN:HD21	3:J:316:ILE:N	2.04	0.55
3:J:360:TYR:C	3:J:360:TYR:HD1	2.10	0.55
3:J:829:GLY:HA2	3:J:995:TYR:CD1	2.41	0.55
4:K:44:ASP:OD2	4:K:48:VAL:HG11	2.06	0.55
2:O:1269:ARG:NH1	3:P:340:GLN:HG3	2.22	0.55
2:O:1286:THR:O	2:O:1290:MET:HG2	2.07	0.55
2:O:696:ASP:HB2	2:O:798:GLN:HG2	1.88	0.55
3:P:1184:ASP:N	3:P:1184:ASP:OD1	2.37	0.55
2:I:514:PHE:CE2	7:5:19:DA:N3	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1134:ILE:HG21	3:D:1138:LEU:HD13	1.89	0.55
4:E:25:ARG:NH1	4:E:65:ASP:OD1	2.40	0.55
2:I:402:ARG:HG2	2:I:416:GLY:CA	2.36	0.55
3:J:1040:MET:HE3	3:J:1046:ILE:HG21	1.88	0.55
3:J:121:PRO:O	3:J:122:SER:CB	2.53	0.55
3:J:354:VAL:CG1	3:J:355:ILE:N	2.70	0.55
3:J:378:LYS:HG2	3:J:382:TYR:OH	2.07	0.55
5:L:153:ALA:O	5:L:155:GLU:N	2.39	0.55
5:L:532:LEU:CD1	5:L:532:LEU:N	2.70	0.55
1:M:31:LEU:CD1	1:M:201:LEU:HB2	2.37	0.55
1:N:183:ILE:HB	1:N:205:MET:HE2	1.89	0.55
2:O:1271:GLY:O	2:O:1275:VAL:HG23	2.06	0.55
2:O:213:LEU:O	2:O:214:ASN:HB3	2.07	0.55
3:P:546:ALA:O	3:P:548:VAL:HG23	2.07	0.55
3:P:768:ASN:ND2	3:P:771:GLN:HG3	2.22	0.55
5:R:141:ILE:HD13	5:R:224:LEU:HD11	1.88	0.55
1:B:214:GLU:O	1:B:217:ILE:HB	2.07	0.55
2:C:1312:ASN:HD21	2:C:1314:GLN:HB3	1.71	0.55
2:C:16:GLY:O	2:C:1156:ARG:HB3	2.06	0.55
2:C:797:GLY:HA3	2:C:1233:LEU:HD21	1.89	0.55
3:D:839:VAL:O	3:D:839:VAL:HG12	2.05	0.55
5:F:574:GLU:HA	5:F:574:GLU:OE1	2.07	0.55
3:J:1163:VAL:HG12	3:J:1175:LEU:HD11	1.88	0.55
3:J:198:CYS:O	3:J:202:ARG:HG3	2.07	0.55
3:J:432:LEU:HD11	3:J:499:ILE:CD1	2.37	0.55
3:J:922:SER:O	3:J:926:PRO:HD3	2.07	0.55
2:O:657:THR:O	2:O:660:VAL:HG23	2.06	0.55
3:P:1288:ALA:O	3:P:1292:LEU:HG	2.06	0.55
5:R:440:THR:HA	5:R:443:ILE:HG22	1.87	0.55
6:1:58:DG:N2	7:2:6:DG:C2	2.75	0.54
2:C:180:ARG:HG2	2:C:394:ARG:O	2.06	0.54
2:C:400:VAL:HG12	2:C:401:GLY:N	2.22	0.54
2:C:502:VAL:HG13	2:C:506:PHE:CE2	2.41	0.54
2:C:678:ARG:CZ	2:C:1106:ARG:HD2	2.37	0.54
3:D:537:TYR:CD1	3:D:544:LEU:HG	2.42	0.54
3:D:556:GLU:CB	3:D:564:VAL:HB	2.16	0.54
5:F:388:ILE:HG23	5:F:392:LYS:NZ	2.22	0.54
1:G:191:ARG:HH12	3:P:1372:ARG:HG2	1.72	0.54
1:H:223:ILE:O	1:H:227:GLN:HG2	2.07	0.54
2:I:1242:LYS:HD3	3:J:354:VAL:HG23	1.88	0.54
2:I:448:LEU:CG	2:I:553:THR:HB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:367:GLY:HA3	3:J:448:GLN:HB2	1.88	0.54
3:J:551:ARG:O	3:J:552:ILE:HD13	2.07	0.54
2:O:1277:ALA:O	2:O:1280:ALA:HB3	2.07	0.54
3:P:1090:ILE:HG23	3:P:1091:PRO:HD2	1.89	0.54
5:R:102:MET:HB3	6:7:42:DG:N2	2.22	0.54
3:P:46:TYR:HD2	5:R:500:ILE:HD13	1.72	0.54
5:R:564:GLY:HA2	5:R:567:MET:HB2	1.89	0.54
6:1:50:DT:H3'	6:1:51:DC:H5'	1.88	0.54
1:A:187:VAL:HG22	1:A:201:LEU:CD1	2.37	0.54
1:A:9:LEU:O	1:B:227:GLN:OE1	2.26	0.54
2:C:13:LYS:HE3	2:C:1149:TYR:O	2.07	0.54
2:C:282:VAL:HG11	2:C:285:ILE:HD11	1.89	0.54
3:D:1350:ASN:HA	3:D:1353:VAL:HG22	1.90	0.54
3:D:709:ARG:O	3:D:709:ARG:HG3	2.07	0.54
2:I:1072:ASN:N	2:I:1072:ASN:OD1	2.36	0.54
2:I:40:GLU:HG2	2:I:42:ASP:HB2	1.88	0.54
2:I:496:LYS:CB	2:I:497:PRO:HD3	2.37	0.54
2:I:1270:PHE:HB2	3:J:347:VAL:HG21	1.87	0.54
2:I:897:PRO:CB	5:L:565:ILE:HA	2.37	0.54
1:M:45:ARG:HD3	1:N:38:THR:OG1	2.06	0.54
2:O:138:ILE:N	2:O:138:ILE:HD13	2.21	0.54
2:O:313:ALA:O	2:O:314:ASN:CB	2.56	0.54
2:O:851:THR:HG22	2:O:852:ALA:N	2.22	0.54
2:O:949:GLU:O	2:O:953:LEU:HG	2.06	0.54
3:P:621:ALA:O	3:P:624:ILE:HB	2.07	0.54
3:P:294:ASN:HB3	5:R:406:GLN:HE22	1.71	0.54
7:5:5:DC:C2'	7:5:6:DG:H5'	2.36	0.54
1:A:47:LEU:CD1	1:A:183:ILE:CD1	2.84	0.54
2:C:559:CYS:HB2	2:C:662:SER:HB3	1.88	0.54
3:D:714:GLU:HG2	3:D:715:LYS:H	1.70	0.54
3:D:793:SER:HB2	3:D:1138:LEU:HD21	1.89	0.54
3:D:959:LYS:HD2	3:D:985:ILE:HG13	1.89	0.54
5:F:420:GLU:HB2	5:F:423:ARG:HG2	1.89	0.54
2:I:549:ASP:OD2	3:J:781:LYS:HD3	2.07	0.54
2:I:953:LEU:HB3	2:I:954:LYS:HD2	1.89	0.54
3:J:422:LEU:C	3:J:423:LEU:HG	2.26	0.54
2:I:813:GLU:CB	3:J:461:PHE:HD2	2.16	0.54
5:L:288:MET:HA	5:L:291:CYS:HB2	1.89	0.54
2:O:803:ALA:HB2	2:O:1094:VAL:HG11	1.88	0.54
2:O:1232:MET:HE2	2:O:1232:MET:HA	1.89	0.54
3:P:518:VAL:HG13	3:P:714:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:749:LYS:HG3	3:P:755:ILE:HG12	1.89	0.54
5:R:87:VAL:CG1	5:R:103:ARG:CD	2.84	0.54
6:1:34:DG:N2	7:2:30:DA:C2	2.75	0.54
1:B:86:LYS:CE	1:B:173:VAL:HG12	2.30	0.54
1:A:11:PRO:CD	1:B:227:GLN:HA	2.38	0.54
3:D:378:LYS:HB3	3:D:379:PRO:HD3	1.88	0.54
3:D:744:ARG:HH11	3:D:763:PHE:HZ	1.55	0.54
5:F:262:VAL:HG13	5:F:263:PRO:HD2	1.90	0.54
5:F:96:ASP:HB3	5:F:99:ARG:HG2	1.89	0.54
1:G:44:ARG:N	1:G:47:LEU:HD12	2.21	0.54
2:I:807:TRP:CG	2:I:817:LEU:HD11	2.43	0.54
3:J:1082:ASP:HB3	3:J:1088:VAL:CG2	2.38	0.54
3:J:601:ILE:HG22	3:J:602:SER:CA	2.37	0.54
3:J:899:TYR:CG	3:J:915:ILE:HD13	2.43	0.54
3:J:967:VAL:HG22	3:J:973:LEU:HD12	1.82	0.54
3:J:952:VAL:HG13	3:J:984:LEU:HD13	1.88	0.54
2:I:1044:PRO:HB3	5:L:498:LEU:HB3	1.89	0.54
1:M:208:ASN:N	1:M:208:ASN:HD22	2.04	0.54
2:O:130:MET:HB2	2:O:136:PHE:CZ	2.43	0.54
2:O:734:ILE:HG22	2:O:751:TYR:HE2	1.72	0.54
3:P:1024:THR:HG21	3:P:1123:ARG:HD3	1.89	0.54
2:O:1340:GLU:O	3:P:17:PHE:HB2	2.08	0.54
3:P:497:GLU:HB3	3:P:498:PRO:HD2	1.87	0.54
6:1:23:DA:C2	7:2:41:DG:N2	2.76	0.54
7:5:27:DA:OP2	7:5:27:DA:H8	1.90	0.54
8:6:14:A:H5'	8:6:15:G:OP2	2.07	0.54
1:A:208:ASN:ND2	1:A:208:ASN:H	2.05	0.54
2:C:102:LEU:HD21	2:C:104:ILE:HD11	1.90	0.54
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.43	0.54
2:C:230:PHE:CD1	2:C:292:ILE:HD11	2.42	0.54
2:C:211:ARG:NH1	2:C:357:ASN:O	2.40	0.54
2:C:596:ASP:N	2:C:596:ASP:OD1	2.41	0.54
3:D:1285:VAL:CG1	3:D:1286:LYS:N	2.70	0.54
5:F:353:LEU:HB3	5:F:358:VAL:HG23	1.89	0.54
2:C:906:PHE:HE1	5:F:608:ARG:HH22	1.56	0.54
2:I:1164:PHE:HD2	2:I:1164:PHE:H	1.55	0.54
2:I:870:ILE:HG21	2:I:944:ARG:HE	1.72	0.54
3:J:471:PRO:CB	3:J:476:ALA:HB1	2.37	0.54
3:J:474:LEU:CD1	4:K:28:ARG:HD3	2.38	0.54
5:L:242:HIS:O	5:L:244:THR:N	2.41	0.54
1:M:45:ARG:HD3	1:N:38:THR:CG2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1159:ILE:HG22	3:P:1160:SER:N	2.21	0.54
3:P:1230:THR:O	3:P:1234:VAL:HG23	2.08	0.54
3:P:1357:ILE:H	3:P:1357:ILE:CD1	2.21	0.54
5:R:333:VAL:O	5:R:337:VAL:HG23	2.07	0.54
2:C:1117:LEU:HD11	2:C:1182:ILE:HD13	1.89	0.54
2:C:562:GLU:CG	2:C:562:GLU:O	2.56	0.54
2:C:797:GLY:N	2:C:1233:LEU:HD21	2.23	0.54
3:D:1272:SER:HB2	3:D:1274:PHE:CE2	2.43	0.54
2:I:1289:GLU:OE1	2:I:1294:LYS:HE3	2.08	0.54
2:I:725:GLN:HB3	2:I:733:VAL:HG23	1.89	0.54
3:J:615:LYS:HB2	3:J:616:PRO:HD3	1.89	0.54
3:J:849:LEU:HA	3:J:856:ILE:O	2.07	0.54
3:J:841:GLY:C	3:J:863:LEU:HD11	2.28	0.54
3:J:883:ARG:HG2	3:J:898:CYS:HA	1.88	0.54
5:L:469:GLN:O	5:L:472:GLN:HG2	2.07	0.54
2:O:1065:LYS:O	2:O:1235:LEU:HG	2.08	0.54
2:O:185:ASP:C	2:O:186:PHE:HD2	2.11	0.54
2:O:764:CYS:CB	2:O:831:ILE:HB	2.37	0.54
2:O:953:LEU:O	2:O:957:LYS:HG3	2.07	0.54
3:P:1023:HIS:O	3:P:1024:THR:CB	2.56	0.54
3:P:130:MET:SD	3:P:135:ILE:HG12	2.48	0.54
3:P:139:LEU:CD2	3:P:185:ILE:CD1	2.84	0.54
3:P:826:ILE:CG1	3:P:831:VAL:HG22	2.26	0.54
5:R:373:ARG:HG2	5:R:377:LYS:HE3	1.90	0.54
6:4:52:DT:H2 ^o	6:4:53:DG:N7	2.23	0.54
1:A:57:THR:HG22	1:A:58:GLU:HG3	1.88	0.54
1:A:78:ILE:HA	1:A:81:ILE:HD12	1.89	0.54
1:B:44:ARG:HH12	3:D:538:ARG:HD3	1.72	0.54
2:C:1061:GLN:HE22	3:D:445:LYS:HG3	1.73	0.54
2:C:82:VAL:HG23	2:C:83:GLN:N	2.22	0.54
2:C:890:LYS:CG	2:C:891:GLY:H	2.20	0.54
3:D:222:LYS:HE2	3:D:1278:GLU:HG2	1.88	0.54
3:D:592:VAL:HG22	3:D:592:VAL:O	2.08	0.54
1:G:56:VAL:HG13	1:G:144:ILE:HG22	1.86	0.54
1:G:73:GLY:HA3	1:G:138:ALA:HB2	1.90	0.54
2:I:27:LEU:HD22	2:I:528:ARG:NH2	2.23	0.54
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.08	0.54
3:J:366:CYS:SG	3:J:439:PRO:HA	2.47	0.54
3:J:452:LEU:HB3	3:J:500:ILE:CG2	2.36	0.54
1:M:69:SER:O	1:M:78:ILE:HG13	2.07	0.54
1:N:217:ILE:HG22	1:N:218:ARG:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1064:ASP:CG	2:O:1238:LEU:HD22	2.27	0.54
2:O:344:GLY:HA3	2:O:346:TYR:HE2	1.58	0.54
3:P:42:GLU:CD	5:R:451:ARG:HB3	2.28	0.54
3:P:1360:GLY:HA2	4:Q:17:PHE:CE2	2.43	0.54
5:R:596:ARG:HA	5:R:599:ARG:HD2	1.88	0.54
1:A:235:ARG:HA	1:B:218:ARG:NH1	2.23	0.54
2:C:1294:LYS:HD3	3:D:347:VAL:HG13	1.90	0.54
2:C:402:ARG:NH2	2:C:417:SER:O	2.40	0.54
2:C:790:ASP:O	2:C:792:GLY:N	2.40	0.54
2:C:797:GLY:CA	2:C:1233:LEU:HD21	2.37	0.54
5:F:137:TYR:HE1	5:F:353:LEU:CD1	2.20	0.54
2:I:1246:ARG:NH2	2:I:1249:GLY:H	2.06	0.54
2:I:146:VAL:O	2:I:511:LEU:HD13	2.07	0.54
2:I:555:TYR:CD1	2:I:637:ARG:NH2	2.76	0.54
3:J:384:LYS:CD	3:J:415:VAL:HG22	2.37	0.54
3:J:492:SER:OG	3:J:495:ASN:N	2.37	0.54
3:J:909:ILE:HD11	3:J:913:GLU:HB3	1.89	0.54
1:M:232:VAL:CG2	1:N:221:ALA:HB1	2.35	0.54
1:N:47:LEU:CD1	1:N:183:ILE:CD1	2.86	0.54
2:O:384:LEU:O	2:O:388:LEU:HG	2.07	0.54
3:P:398:LYS:HZ1	5:R:532:LEU:CG	2.00	0.54
5:R:355:ILE:HA	5:R:358:VAL:HB	1.89	0.54
3:P:263:SER:N	5:R:507:MET:HE3	2.23	0.54
5:R:586:ARG:O	5:R:590:ILE:HG13	2.08	0.54
5:F:102:MET:CE	6:1:42:DG:N3	2.70	0.54
1:A:11:PRO:HD3	1:B:227:GLN:HA	1.90	0.54
3:D:1075:ARG:HH21	3:D:1192:LYS:HD3	1.73	0.54
3:D:1087:ASP:HB3	3:D:1096:PRO:HB3	1.90	0.54
5:F:96:ASP:OD2	6:1:44:DG:N2	2.35	0.54
2:I:1227:VAL:HG12	2:I:1228:GLY:N	2.23	0.54
2:I:184:LEU:HD11	2:I:389:PHE:CE2	2.43	0.54
2:I:871:VAL:HG12	2:I:872:TYR:O	2.07	0.54
3:J:113:HIS:CD2	3:J:115:TRP:HB2	2.43	0.54
2:O:725:GLN:HB3	2:O:733:VAL:HG23	1.89	0.54
3:P:795:TYR:O	3:P:799:ARG:HG3	2.08	0.54
2:C:1072:ASN:OD1	2:C:1072:ASN:N	2.40	0.54
2:C:300:ASP:N	2:C:300:ASP:OD1	2.41	0.54
3:D:1067:ARG:HD3	3:D:1071:GLY:O	2.08	0.54
3:J:318:GLY:N	3:J:322:ARG:O	2.38	0.54
3:J:734:ALA:O	3:J:737:ILE:HB	2.08	0.54
4:K:26:ARG:O	4:K:30:MET:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:53:GLU:HB3	4:K:59:ILE:HG12	1.89	0.54
1:N:102:LEU:HB2	1:N:144:ILE:HD11	1.88	0.54
2:O:1161:LEU:O	2:O:1164:PHE:HD2	1.91	0.54
2:O:563:THR:HG23	2:O:680:LEU:HD11	1.90	0.54
5:R:385:ARG:HA	5:R:388:ILE:CG2	2.37	0.54
7:2:24:DT:H72	7:2:25:DA:N6	2.23	0.53
5:L:554:ARG:NH2	6:4:12:DC:OP2	2.32	0.53
3:D:450:HIS:CD2	3:D:452:LEU:H	2.26	0.53
2:C:1104:PRO:CG	3:D:725:MET:HE3	2.33	0.53
5:F:355:ILE:HA	5:F:358:VAL:HB	1.90	0.53
1:H:158:ARG:C	1:H:160:HIS:N	2.60	0.53
2:I:297:VAL:HG22	2:I:315:MET:O	2.08	0.53
2:I:346:TYR:OH	2:I:436:ARG:CG	2.56	0.53
5:L:387:VAL:HG12	5:L:388:ILE:N	2.22	0.53
1:M:179:PRO:HA	1:M:208:ASN:ND2	2.22	0.53
2:O:1278:LEU:CD2	2:O:1286:THR:OG1	2.56	0.53
2:O:514:PHE:HE2	7:8:19:DA:O4'	1.90	0.53
3:P:237:MET:C	3:P:238:ILE:HD13	2.28	0.53
3:P:363:LEU:HA	3:P:450:HIS:ND1	2.23	0.53
3:P:99:ARG:HG2	3:P:99:ARG:O	2.09	0.53
5:R:267:ASP:O	5:R:271:ASN:CG	2.47	0.53
5:L:455:HIS:CE1	6:4:31:DT:H71	2.43	0.53
2:C:798:GLN:HB3	2:C:827:ARG:CZ	2.39	0.53
3:D:1156:LEU:HD12	3:D:1223:LEU:HD12	1.90	0.53
1:G:28:LEU:HD11	1:H:231:PHE:HE1	1.68	0.53
1:H:102:LEU:CD1	1:H:114:ASP:HB3	2.38	0.53
2:I:1122:LYS:HG3	2:I:1229:TYR:CE2	2.43	0.53
2:I:366:ILE:HG22	2:I:367:TYR:N	2.23	0.53
2:I:398:SER:OG	2:I:399:ALA:N	2.41	0.53
3:J:120:LEU:CD2	3:J:121:PRO:HA	2.37	0.53
3:J:514:THR:O	3:J:576:ARG:NE	2.40	0.53
3:J:747:MET:HE2	3:J:774:ILE:HG22	1.89	0.53
3:J:814:CYS:SG	3:J:883:ARG:NH2	2.81	0.53
3:J:817:HIS:O	3:J:845:ALA:CB	2.53	0.53
5:L:361:ILE:O	5:L:365:MET:HB2	2.08	0.53
1:N:74:VAL:HG22	1:N:133:LEU:HD21	1.91	0.53
2:O:1289:GLU:OE2	3:P:473:THR:N	2.41	0.53
3:P:1319:PHE:CZ	3:P:1342:ASP:HB2	2.43	0.53
3:P:75:TYR:CD2	3:P:85:CYS:SG	3.01	0.53
6:4:37:DA:P	6:4:37:DA:H8	2.31	0.53
2:C:1237:HIS:HB3	2:C:1242:LYS:HE3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:275:ARG:NH1	2:C:278:GLU:CD	2.62	0.53
3:D:363:LEU:HB2	3:D:622:ASP:OD1	2.08	0.53
1:G:44:ARG:HA	1:G:47:LEU:CD1	2.18	0.53
1:G:11:PRO:HG2	1:H:231:PHE:CZ	2.44	0.53
2:I:36:GLN:HA	2:I:39:ILE:CD1	2.38	0.53
5:L:280:VAL:HG12	5:L:284:GLU:OE2	2.08	0.53
2:O:1299:ASN:O	2:O:1302:THR:HG22	2.09	0.53
2:O:309:LEU:N	2:O:309:LEU:HD23	2.24	0.53
2:O:812:PHE:O	3:P:504:GLN:OE1	2.26	0.53
3:P:369:PRO:CB	3:P:372:MET:HE3	2.38	0.53
3:P:882:VAL:O	3:P:882:VAL:CG2	2.56	0.53
5:R:153:ALA:O	5:R:155:GLU:N	2.41	0.53
6:7:30:DG:C2	7:8:34:DG:C2	2.97	0.53
7:8:5:DC:C2'	7:8:6:DG:H5'	2.34	0.53
1:A:59:VAL:O	1:A:171:LEU:HG	2.09	0.53
1:A:32:GLU:HA	1:A:198:LEU:HD22	1.91	0.53
1:G:56:VAL:CG1	1:G:144:ILE:CG2	2.84	0.53
2:I:1252:SER:CA	2:I:1259:LEU:HD21	2.37	0.53
2:I:953:LEU:HD22	2:I:957:LYS:NZ	2.23	0.53
3:J:739:GLN:CG	3:J:744:ARG:HG3	2.38	0.53
1:N:65:LEU:HA	1:N:169:GLY:HA2	1.90	0.53
2:O:1235:LEU:HD23	2:O:1235:LEU:N	2.23	0.53
2:O:237:LEU:HB2	2:O:287:VAL:HG22	1.90	0.53
2:O:476:LYS:HA	2:O:479:LEU:HD12	1.90	0.53
3:P:291:ILE:HG23	5:R:409:ASN:HD22	1.73	0.53
5:R:410:ILE:HA	5:R:413:MET:HG2	1.89	0.53
1:B:65:LEU:HD22	1:B:168:ILE:HG22	1.89	0.53
2:C:2:VAL:CG1	2:C:3:TYR:N	2.72	0.53
2:C:57:PHE:HD1	2:C:58:PRO:HA	1.71	0.53
3:D:1154:ALA:CA	3:D:1211:SER:HB2	2.38	0.53
3:D:357:VAL:HG12	3:D:359:PRO:HD3	1.89	0.53
3:D:452:LEU:HB3	3:D:500:ILE:CG2	2.39	0.53
3:D:518:VAL:HA	3:D:547:ARG:CZ	2.39	0.53
5:F:291:CYS:O	5:F:295:CYS:HB2	2.07	0.53
1:G:86:LYS:HE3	1:G:173:VAL:CG1	2.39	0.53
3:J:24:LEU:CD1	3:J:232:ASN:HB3	2.39	0.53
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.90	0.53
3:J:809:VAL:HG21	3:J:915:ILE:HD11	1.89	0.53
5:L:554:ARG:HH12	6:4:12:DC:P	2.31	0.53
2:O:120:GLN:OE1	2:O:489:PRO:HG2	2.09	0.53
2:O:901:LEU:HD12	2:O:901:LEU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:68:TYR:CB	2:O:929:ILE:HD12	2.38	0.53
2:O:931:VAL:HG12	2:O:932:GLN:N	2.24	0.53
3:P:369:PRO:HB2	3:P:372:MET:HE3	1.91	0.53
5:R:390:ILE:HD13	5:R:432:THR:HA	1.90	0.53
1:A:46:ILE:HD11	1:B:38:THR:HG21	1.90	0.53
2:C:271:ALA:HA	2:C:274:ILE:HD12	1.89	0.53
2:C:558:VAL:O	2:C:560:PRO:HD3	2.09	0.53
3:D:1244:GLN:OE1	3:D:1244:GLN:HA	2.08	0.53
3:D:718:SER:OG	3:D:719:PHE:N	2.40	0.53
5:F:355:ILE:HG22	5:F:359:LYS:HE3	1.90	0.53
1:G:33:ARG:NH1	1:G:33:ARG:HB3	2.23	0.53
2:I:32:LEU:HD23	2:I:130:MET:HE3	1.88	0.53
3:J:1259:GLN:NE2	3:J:1259:GLN:HA	2.24	0.53
2:I:1286:THR:CB	3:J:479:GLU:OE2	2.56	0.53
3:J:706:VAL:HG12	3:J:706:VAL:O	2.08	0.53
2:O:1183:ALA:O	2:O:1185:PRO:HD3	2.07	0.53
2:O:177:ILE:HG22	2:O:177:ILE:O	2.08	0.53
3:P:1138:LEU:CB	3:P:1139:PRO:HD3	2.37	0.53
3:P:614:LEU:O	3:P:618:VAL:HG23	2.08	0.53
3:P:814:CYS:HB3	3:P:890:THR:OG1	2.09	0.53
2:C:207:THR:HB	2:C:350:THR:HG22	1.91	0.53
2:C:859:GLU:HG2	2:C:862:LEU:CD1	2.27	0.53
3:D:154:LEU:HD13	3:D:158:GLN:HG2	1.90	0.53
3:D:108:ALA:HB3	3:D:279:LEU:HD23	1.90	0.53
1:G:80:GLU:O	1:G:84:ASN:ND2	2.41	0.53
2:I:1005:GLU:HG2	2:I:1006:GLU:N	2.17	0.53
2:I:1183:ALA:O	2:I:1185:PRO:HD3	2.08	0.53
2:I:149:LEU:HD21	2:I:451:ARG:HH21	1.73	0.53
2:I:690:VAL:CG1	2:I:691:PRO:CD	2.79	0.53
3:J:1208:ASP:O	3:J:1210:ILE:CD1	2.55	0.53
3:J:382:TYR:OH	3:J:398:LYS:HE3	2.08	0.53
3:J:521:LYS:HD3	3:J:543:SER:HB2	1.89	0.53
3:J:91:GLU:HG2	3:J:92:VAL:N	2.22	0.53
2:O:839:VAL:HG22	2:O:1049:ILE:HG12	1.91	0.53
2:O:950:GLU:HA	2:O:953:LEU:HG	1.89	0.53
3:P:1282:TYR:C	3:P:1285:VAL:HG12	2.28	0.53
5:R:231:THR:O	5:R:231:THR:HG22	2.09	0.53
1:B:47:LEU:HD13	1:B:183:ILE:HD11	1.85	0.53
2:C:1333:LEU:HD11	3:D:331:ILE:CD1	2.39	0.53
2:C:806:PRO:HD3	3:D:637:ALA:O	2.09	0.53
2:C:871:VAL:HG23	2:C:883:LEU:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:248:ASP:O	3:D:251:PRO:HD3	2.08	0.53
2:C:809:GLY:O	3:D:357:VAL:HG11	2.09	0.53
2:I:16:GLY:HA3	2:I:1185:PRO:HG2	1.90	0.53
3:J:1220:ILE:HG23	3:J:1224:ARG:CD	2.38	0.53
3:J:269:TYR:O	3:J:273:ILE:HG13	2.09	0.53
2:I:1258:PRO:HG2	3:J:346:ARG:CB	2.38	0.53
3:J:673:VAL:CG1	3:J:674:THR:O	2.57	0.53
4:K:42:GLU:OE1	4:K:52:ARG:NH1	2.41	0.53
1:N:74:VAL:HG11	1:N:131:CYS:SG	2.49	0.53
2:O:209:ILE:CG2	2:O:210:LEU:N	2.72	0.53
2:O:757:THR:HG22	2:O:758:ARG:N	2.23	0.53
3:P:1023:HIS:O	3:P:1024:THR:HB	2.08	0.53
3:P:379:PRO:HA	3:P:382:TYR:HD2	1.74	0.53
3:P:541:LEU:O	3:P:542:ALA:HB2	2.09	0.53
3:P:620:PHE:CD2	3:P:624:ILE:HD11	2.43	0.53
3:P:644:MET:HB3	3:P:741:ALA:HB2	1.90	0.53
3:P:848:VAL:CG2	3:P:880:VAL:HG13	2.39	0.53
5:R:267:ASP:O	5:R:271:ASN:ND2	2.41	0.53
7:2:29:DC:H2 ⁺	7:2:30:DA:N7	2.24	0.53
1:B:166:ARG:HG2	1:B:167:PRO:HD2	1.90	0.53
2:C:241:LEU:HD23	2:C:285:ILE:HD12	1.90	0.53
3:D:201:LEU:HD23	3:D:204:GLU:OE1	2.08	0.53
3:D:497:GLU:CB	3:D:498:PRO:HD2	2.36	0.53
2:I:634:VAL:CG1	2:I:635:THR:N	2.72	0.53
3:J:1259:GLN:HE22	3:J:1262:ARG:NH2	2.06	0.53
5:L:407:GLU:HG2	5:L:442:SER:HB3	1.91	0.53
1:H:168:ILE:CD1	3:P:867:GLN:HB3	2.34	0.53
5:R:386:LEU:HD22	6:7:41:DT:N3	2.24	0.53
1:A:140:ILE:HD11	1:A:142:MET:HE3	1.90	0.53
2:C:1286:THR:O	2:C:1290:MET:HG2	2.09	0.53
2:C:225:PHE:HE2	2:C:347:ILE:HB	1.73	0.53
3:D:958:ILE:HG13	3:D:1011:VAL:HG13	1.91	0.53
3:D:1179:PRO:HD3	3:D:1184:ASP:O	2.07	0.53
3:D:407:VAL:HG23	3:D:408:VAL:N	2.24	0.53
2:C:1101:LEU:HD23	3:D:504:GLN:CG	2.38	0.53
3:D:664:ILE:HD13	3:D:681:LYS:HE2	1.90	0.53
5:F:511:ILE:HG13	5:F:517:SER:OG	2.09	0.53
3:J:1163:VAL:HG11	3:J:1175:LEU:HG	1.91	0.53
3:J:412:LEU:HD23	3:J:441:LEU:HD11	1.91	0.53
5:L:460:ILE:O	5:L:464:ASN:ND2	2.42	0.53
2:O:113:THR:HG23	2:O:114:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1064:ASP:CG	2:O:1238:LEU:CD2	2.77	0.53
3:P:320:ASN:O	3:P:321:LYS:HB2	2.07	0.53
7:8:14:DC:H2'	7:8:15:DT:C6	2.44	0.52
1:A:11:PRO:HG2	1:B:231:PHE:CE2	2.43	0.52
2:C:805:MET:HG2	2:C:1097:VAL:HG13	1.90	0.52
2:C:616:ILE:HG12	2:C:652:TYR:HB2	1.91	0.52
2:C:816:ILE:CG2	2:C:818:VAL:HG13	2.34	0.52
3:D:470:VAL:O	3:D:472:LEU:HD23	2.09	0.52
3:D:492:SER:HG	3:D:495:ASN:H	1.56	0.52
3:D:549:LYS:NZ	3:D:569:LEU:HD13	2.25	0.52
3:D:743:MET:HG3	3:D:759:ILE:O	2.09	0.52
3:J:1239:ASP:O	3:J:1243:LEU:HG	2.09	0.52
3:J:141:PHE:HA	3:J:180:MET:HG2	1.91	0.52
3:J:425:ARG:NH1	3:J:427:PRO:HD2	2.24	0.52
1:N:219:ARG:O	1:N:223:ILE:HG13	2.09	0.52
2:O:255:ILE:HG23	2:O:285:ILE:HG21	1.91	0.52
2:O:34:SER:OG	2:O:455:SER:HB2	2.09	0.52
2:O:428:VAL:HG12	2:O:429:MET:H	1.74	0.52
2:O:757:THR:C	2:O:833:ILE:HD12	2.30	0.52
3:P:128:LEU:HD11	3:P:189:LEU:CD2	2.39	0.52
2:O:1309:VAL:HG22	3:P:379:PRO:O	2.08	0.52
2:O:373:GLY:HA2	5:R:91:ILE:CG1	2.39	0.52
1:B:168:ILE:HG22	1:B:169:GLY:N	2.23	0.52
1:B:39:LEU:O	1:B:43:LEU:HD12	2.09	0.52
2:C:685:MET:HE2	2:C:1073:LYS:HB3	1.89	0.52
5:F:102:MET:HE1	6:1:43:DT:H1'	1.91	0.52
5:F:135:ALA:CB	5:F:256:PHE:CB	2.76	0.52
2:I:854:ILE:HG22	2:I:857:VAL:CG2	2.36	0.52
3:J:1019:ASN:O	3:J:1020:TRP:HB3	2.10	0.52
3:J:1229:VAL:HG22	3:J:1233:ILE:HD11	1.91	0.52
4:Q:6:VAL:HG13	4:Q:51:LEU:HD22	1.91	0.52
5:R:381:GLU:HA	5:R:384:LEU:HD21	1.91	0.52
6:4:55:DC:H2''	6:4:56:DG:OP2	2.09	0.52
1:B:190:ALA:HB3	1:B:199:ASP:CA	2.40	0.52
2:C:1121:ALA:HA	2:C:1124:ILE:CD1	2.40	0.52
3:D:372:MET:O	3:D:376:LEU:HG	2.09	0.52
3:D:836:ARG:HD2	3:D:873:GLU:OE2	2.10	0.52
1:H:97:GLU:HG3	1:H:147:GLN:HE21	1.74	0.52
2:I:1085:MET:CE	2:I:1085:MET:CA	2.86	0.52
2:I:169:LYS:O	2:I:171:LEU:HG	2.09	0.52
2:I:209:ILE:HD11	2:I:425:ILE:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:700:ASN:O	3:J:704:GLU:HB3	2.09	0.52
1:M:60:GLU:O	1:M:142:MET:HB2	2.09	0.52
2:O:1289:GLU:OE1	3:P:472:LEU:HG	2.09	0.52
2:O:150:HIS:CE1	2:O:454:ARG:HD2	2.44	0.52
2:O:178:PRO:CG	2:O:395:TYR:CE1	2.93	0.52
3:P:966:VAL:HG13	3:P:966:VAL:O	2.10	0.52
6:1:58:DG:N2	7:2:6:DG:N3	2.57	0.52
1:B:152:TYR:OH	1:B:174:ASP:HB3	2.09	0.52
2:C:202:ARG:HB2	2:C:369:MET:CE	2.40	0.52
2:C:275:ARG:NH1	2:C:278:GLU:OE1	2.42	0.52
2:C:359:ARG:HG2	2:C:363:LEU:HD12	1.92	0.52
3:D:245:LEU:HD12	3:D:246:PRO:HD2	1.90	0.52
3:D:549:LYS:HZ3	3:D:569:LEU:HD13	1.74	0.52
5:F:466:ILE:CD1	5:F:487:MET:SD	2.98	0.52
2:I:14:ASP:HA	2:I:1183:ALA:HB3	1.91	0.52
2:I:202:ARG:HB2	2:I:369:MET:HE3	1.91	0.52
2:I:427:ASP:O	2:I:430:LYS:HB2	2.10	0.52
2:I:797:GLY:CA	2:I:1233:LEU:HD21	2.39	0.52
2:I:851:THR:HG22	2:I:852:ALA:N	2.25	0.52
3:J:1151:LYS:O	3:J:1153:PRO:HD3	2.10	0.52
3:J:22:ILE:HD12	3:J:1319:PHE:CE1	2.44	0.52
5:L:119:ILE:HG23	5:L:122:ARG:NH2	2.23	0.52
1:M:46:ILE:CD1	1:M:46:ILE:N	2.73	0.52
2:O:1047:LEU:O	2:O:1048:LYS:HG3	2.09	0.52
3:P:697:MET:CE	3:P:738:ARG:HA	2.39	0.52
3:P:746:LEU:HD23	3:P:758:PRO:HB3	1.92	0.52
5:R:461:ASN:O	5:R:465:ARG:HG3	2.09	0.52
7:2:36:DG:C2'	7:2:37:DA:OP2	2.45	0.52
7:8:24:DT:OP1	7:8:24:DT:C4'	2.58	0.52
7:8:51:DG:H2'	7:8:52:DT:H71	1.90	0.52
2:C:185:ASP:CG	2:C:200:ARG:HG2	2.30	0.52
2:C:275:ARG:NH1	2:C:278:GLU:OE2	2.41	0.52
2:C:696:ASP:HB2	2:C:798:GLN:HG2	1.92	0.52
2:I:452:ARG:NH2	2:I:458:GLU:OE1	2.41	0.52
2:I:1325:VAL:HG13	3:J:249:LEU:HD22	1.91	0.52
3:J:502:PRO:HB3	3:J:506:VAL:HG11	1.91	0.52
3:J:843:VAL:HB	3:J:897:HIS:O	2.10	0.52
5:L:386:LEU:N	6:4:41:DT:H1'	2.24	0.52
3:P:280:LYS:HA	3:P:283:LEU:HD12	1.91	0.52
5:R:91:ILE:O	5:R:91:ILE:HG22	2.08	0.52
6:4:50:DT:H5'	6:4:51:DC:C5	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LEU:HD13	1:A:115:ILE:HD13	1.91	0.52
2:C:1275:VAL:HG12	2:C:1279:GLU:OE2	2.09	0.52
2:C:250:THR:OG1	2:C:268:ARG:NE	2.43	0.52
2:C:558:VAL:HG22	2:C:574:SER:O	2.09	0.52
3:D:378:LYS:O	3:D:381:ILE:HB	2.10	0.52
3:D:620:PHE:O	3:D:624:ILE:CG1	2.57	0.52
1:H:158:ARG:O	1:H:159:ILE:C	2.47	0.52
1:G:228:LEU:HD11	1:H:224:LEU:HD21	1.91	0.52
2:I:598:VAL:HG13	2:I:627:GLY:HA2	1.90	0.52
2:I:70:TYR:HA	2:I:100:LEU:HD23	1.90	0.52
3:J:611:ILE:HG22	3:J:612:LEU:HD23	1.92	0.52
3:J:846:GLU:HG2	3:J:847:ASP:N	2.25	0.52
2:O:528:ARG:NH1	2:O:575:LEU:O	2.40	0.52
2:O:797:GLY:O	2:O:798:GLN:HG3	2.10	0.52
3:P:140:TYR:O	3:P:141:PHE:HB2	2.10	0.52
2:C:514:PHE:CE2	7:2:19:DA:H1'	2.45	0.52
6:4:18:DA:C2	7:5:46:DG:N2	2.78	0.52
6:4:31:DT:H2''	6:4:32:DA:OP2	2.10	0.52
2:C:857:VAL:HG12	2:C:858:GLY:O	2.10	0.52
2:C:375:PRO:HD3	5:F:87:VAL:HG11	1.92	0.52
3:J:419:HIS:CE1	3:J:477:GLN:NE2	2.78	0.52
3:J:555:TYR:CB	3:J:563:LEU:HD22	2.37	0.52
3:J:712:GLN:CD	3:J:712:GLN:N	2.63	0.52
3:J:812:ASP:O	3:J:897:HIS:ND1	2.37	0.52
4:K:28:ARG:HG3	4:K:28:ARG:HH11	1.72	0.52
1:M:49:SER:HB2	1:N:33:ARG:NH1	2.24	0.52
2:O:192:ASP:HB3	2:O:346:TYR:CD1	2.44	0.52
2:O:487:LEU:HB3	2:O:492:MET:SD	2.50	0.52
2:O:729:ALA:C	2:O:755:LYS:HE3	2.30	0.52
3:P:1075:ARG:HB2	3:P:1192:LYS:HD3	1.92	0.52
3:P:580:TRP:O	3:P:580:TRP:CD1	2.63	0.52
2:O:674:ASP:O	3:P:772:TYR:CE1	2.63	0.52
3:P:835:LEU:HG	3:P:835:LEU:O	2.09	0.52
3:P:839:VAL:HG13	3:P:864:LEU:CD1	2.38	0.52
6:4:36:DT:H3'	6:4:37:DA:P	2.50	0.52
1:B:37:HIS:NE2	1:B:187:VAL:HG21	2.25	0.52
2:C:1105:SER:CB	3:D:731:ARG:HD2	2.39	0.52
2:C:878:THR:HG22	2:C:879:GLY:N	2.25	0.52
2:C:941:LYS:HB2	2:C:946:LEU:HD13	1.90	0.52
3:D:360:TYR:CD1	3:D:361:LEU:CD2	2.92	0.52
2:I:618:GLN:O	2:I:621:SER:OG	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:871:VAL:HG11	2:I:928:VAL:HG21	1.92	0.52
3:J:237:MET:C	3:J:238:ILE:HD13	2.30	0.52
5:L:452:ILE:HB	5:L:457:ILE:CD1	2.36	0.52
5:L:572:THR:O	5:L:576:VAL:HG23	2.10	0.52
2:O:1272:GLU:HG2	3:P:343:LEU:HB3	1.90	0.52
2:O:592:ARG:NH2	2:O:599:VAL:HG12	2.24	0.52
2:O:675:ASP:OD2	2:O:677:ASN:ND2	2.32	0.52
3:P:242:LEU:CD1	3:P:243:PRO:HD2	2.35	0.52
3:P:264:ASP:HB3	3:P:324:LEU:CD2	2.40	0.52
3:P:370:LYS:HD3	3:P:409:TRP:CZ3	2.45	0.52
6:1:49:DG:H2'	6:1:50:DT:H1'	1.92	0.52
7:2:16:DC:H2'	7:2:17:DG:C8	2.45	0.52
5:F:562:ARG:NH2	7:2:46:DG:OP1	2.42	0.52
1:B:59:VAL:CG2	1:B:144:ILE:HG23	2.34	0.52
2:C:1101:LEU:HD23	3:D:504:GLN:HG3	1.91	0.52
3:D:704:GLU:O	3:D:704:GLU:CG	2.58	0.52
2:I:1020:GLU:O	2:I:1024:GLU:N	2.32	0.52
2:I:1305:TYR:HA	2:I:1308:ILE:HD12	1.90	0.52
2:I:363:LEU:HB3	2:I:381:ALA:HB1	1.92	0.52
2:I:213:LEU:HG	2:I:385:PHE:CZ	2.44	0.52
2:I:7:GLU:O	2:I:11:ILE:HG12	2.10	0.52
3:J:805:GLN:HB3	3:J:1347:LEU:HD12	1.92	0.52
3:J:245:LEU:HD12	3:J:246:PRO:HD2	1.90	0.52
2:I:1113:LEU:HG	3:J:641:ILE:HD12	1.92	0.52
3:J:851:PRO:HA	3:J:855:ASP:HA	1.91	0.52
3:J:872:LEU:N	3:J:872:LEU:CD2	2.65	0.52
1:N:156:SER:HA	1:N:159:ILE:HG22	1.92	0.52
2:O:1225:VAL:HG22	3:P:638:SER:HB3	1.92	0.52
5:R:368:GLY:HA2	5:R:371:LYS:HD2	1.91	0.52
6:7:23:DA:C2	7:8:41:DG:N2	2.78	0.52
2:C:1332:SER:OG	3:D:245:LEU:HD13	2.09	0.52
2:C:205:PRO:HB2	2:C:207:THR:HG22	1.92	0.52
2:C:149:LEU:CD2	2:C:451:ARG:HH21	2.23	0.52
2:C:851:THR:HG22	2:C:853:ASP:H	1.74	0.52
3:D:138:VAL:HG12	3:D:185:ILE:HD11	1.92	0.52
3:D:599:LYS:HG3	3:D:600:ALA:H	1.74	0.52
3:D:646:ILE:HD12	3:D:764:ARG:HD3	1.85	0.52
3:D:805:GLN:HB2	3:D:1347:LEU:CD1	2.37	0.52
1:G:104:LYS:HE3	1:G:114:ASP:OD2	2.09	0.52
2:I:217:THR:HA	2:I:220:ILE:HD12	1.92	0.52
2:I:727:VAL:HG13	2:I:732:ILE:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:764:CYS:HA	2:I:833:ILE:CD1	2.40	0.52
2:I:964:LEU:CD1	2:I:1021:LEU:HD22	2.39	0.52
3:J:1047:THR:O	3:J:1047:THR:HG23	2.10	0.52
3:J:1046:ILE:HG22	3:J:1061:VAL:HA	1.92	0.52
3:J:111:THR:CG2	3:J:112:ALA:N	2.73	0.52
3:J:123:ARG:O	3:J:127:LEU:HG	2.09	0.52
2:O:1281:TYR:OH	3:P:431:ARG:C	2.49	0.52
2:O:1338:GLU:HG2	3:P:21:LYS:HE2	1.92	0.52
3:P:146:VAL:HG23	3:P:158:GLN:O	2.09	0.52
3:P:212:THR:HG22	3:P:215:LYS:CE	2.40	0.52
3:P:797:THR:HA	3:P:800:LEU:CD1	2.40	0.52
3:P:959:LYS:HZ2	3:P:985:ILE:HD11	1.74	0.52
4:Q:44:ASP:OD2	4:Q:52:ARG:NH2	2.43	0.52
1:A:124:VAL:HG12	1:A:125:LYS:HG3	1.92	0.51
1:A:76:GLU:N	1:A:76:GLU:OE1	2.43	0.51
1:B:17:GLU:HG2	1:B:19:VAL:HG23	1.92	0.51
2:C:143:ARG:NH1	2:C:507:GLY:O	2.42	0.51
2:C:634:VAL:HG12	2:C:635:THR:N	2.26	0.51
2:C:82:VAL:O	2:C:86:GLN:HG3	2.09	0.51
3:D:425:ARG:HH11	3:D:425:ARG:HG2	1.75	0.51
3:D:698:MET:O	3:D:702:GLN:CB	2.58	0.51
5:F:323:ASN:O	5:F:324:LYS:HB2	2.10	0.51
1:H:48:LEU:HD21	1:H:183:ILE:CG2	2.40	0.51
1:G:28:LEU:HD21	1:H:231:PHE:CE1	2.46	0.51
3:J:704:GLU:HG3	3:J:704:GLU:O	2.10	0.51
3:J:871:LEU:O	3:J:874:GLU:HB2	2.10	0.51
5:L:148:TYR:CZ	5:L:152:GLU:HG3	2.45	0.51
1:M:234:LEU:HB3	1:N:13:LEU:CD2	2.40	0.51
2:O:1281:TYR:OH	3:P:432:LEU:HD23	2.10	0.51
2:O:878:THR:HA	2:O:925:SER:HB2	1.92	0.51
2:O:92:TYR:HB2	2:O:137:VAL:HB	1.91	0.51
3:P:207:GLU:O	3:P:208:THR:HG23	2.09	0.51
3:P:433:GLY:O	3:P:457:TYR:CE1	2.59	0.51
5:R:599:ARG:O	5:R:601:PRO:HD3	2.10	0.51
6:7:34:DG:N2	7:8:29:DC:O2	2.41	0.51
2:C:149:LEU:HD23	2:C:451:ARG:HH21	1.75	0.51
1:G:68:TYR:HD2	2:I:929:ILE:HD11	1.74	0.51
2:I:183:TRP:CH2	6:4:48:DA:N6	2.79	0.51
2:I:542:ARG:NH1	6:4:49:DG:H8	2.08	0.51
2:I:653:MET:HG2	2:I:654:ASP:N	2.25	0.51
2:I:805:MET:HB2	2:I:806:PRO:CD	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1179:PRO:HB2	3:J:1182:GLY:HA3	1.93	0.51
3:J:1263:LYS:HD3	3:J:1280:VAL:C	2.30	0.51
1:M:31:LEU:HD12	1:M:201:LEU:HB2	1.91	0.51
1:N:111:THR:OG1	1:N:126:PRO:O	2.29	0.51
1:N:192:VAL:HG12	1:N:198:LEU:HB2	1.92	0.51
1:M:224:LEU:CD2	1:N:228:LEU:HD21	2.40	0.51
2:O:870:ILE:CG1	2:O:944:ARG:HG2	2.39	0.51
3:P:1162:ILE:HG13	3:P:1180:VAL:CG1	2.40	0.51
3:P:1257:VAL:HA	3:P:1260:MET:HE2	1.91	0.51
3:P:180:MET:HE1	3:P:293:ARG:CZ	2.40	0.51
3:P:347:VAL:HG12	3:P:348:ASP:N	2.25	0.51
3:P:378:LYS:HA	3:P:381:ILE:HD12	1.92	0.51
3:P:530:PRO:HB2	3:P:581:MET:CG	2.40	0.51
3:P:614:LEU:HD23	4:Q:7:GLN:CD	2.31	0.51
3:P:749:LYS:CB	3:P:750:PRO:CD	2.75	0.51
2:C:1098:LEU:CD2	2:C:1099:ASN:H	2.23	0.51
2:C:313:ALA:O	2:C:314:ASN:HB3	2.10	0.51
2:C:732:ILE:CD1	2:C:753:LEU:HD11	2.40	0.51
3:D:807:LEU:CD2	3:D:1255:VAL:HG13	2.35	0.51
3:D:254:PRO:HB3	3:D:260:PHE:CZ	2.45	0.51
2:C:809:GLY:CA	3:D:629:PHE:CD1	2.94	0.51
5:F:414:LYS:HD3	5:F:434:TRP:CZ3	2.46	0.51
2:I:202:ARG:HH22	7:5:7:DC:H3'	1.76	0.51
3:J:424:ASN:O	3:J:466:MET:CE	2.58	0.51
5:R:311:THR:HG22	5:R:348:GLU:OE1	2.10	0.51
6:7:47:DC:H2''	6:7:48:DA:OP1	2.09	0.51
2:C:732:ILE:HD11	2:C:753:LEU:HD11	1.92	0.51
2:C:801:ARG:HG2	2:C:1229:TYR:CZ	2.45	0.51
2:C:807:TRP:O	2:C:809:GLY:N	2.42	0.51
1:H:39:LEU:O	1:H:43:LEU:CD1	2.58	0.51
2:I:1156:ARG:NH1	2:I:1157:GLN:HB2	2.25	0.51
2:I:1332:SER:O	3:J:243:PRO:CG	2.58	0.51
2:I:519:ASN:ND2	2:I:686:GLN:O	2.43	0.51
2:I:884:VAL:O	2:I:917:SER:HB3	2.10	0.51
3:J:704:GLU:CG	3:J:704:GLU:O	2.59	0.51
5:L:457:ILE:O	5:L:461:ASN:CG	2.49	0.51
1:M:11:PRO:HA	1:M:30:PRO:HD2	1.92	0.51
2:O:143:ARG:NH1	2:O:512:SER:O	2.44	0.51
2:O:402:ARG:HG2	2:O:416:GLY:CA	2.40	0.51
3:P:902:ASP:HB2	3:P:909:ILE:HG13	1.91	0.51
5:R:491:GLU:O	5:R:494:ILE:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:158:ARG:O	1:A:162:GLU:HB2	2.11	0.51
1:A:48:LEU:CD1	1:A:183:ILE:HG21	2.38	0.51
3:D:190:LYS:HB2	3:D:235:GLU:HG2	1.93	0.51
3:D:478:LEU:HD13	4:E:24:ALA:HB2	1.93	0.51
2:I:1198:LEU:HD12	2:I:1198:LEU:O	2.10	0.51
2:I:1225:VAL:CG1	2:I:1226:THR:N	2.73	0.51
2:I:538:LEU:N	2:I:538:LEU:HD23	2.25	0.51
2:I:805:MET:O	2:I:811:ASN:ND2	2.43	0.51
3:J:899:TYR:CD2	3:J:915:ILE:HD13	2.45	0.51
1:N:81:ILE:CD1	1:N:131:CYS:SG	2.98	0.51
2:O:297:VAL:HG13	2:O:317:LEU:HG	1.92	0.51
3:P:1302:TYR:N	3:P:1302:TYR:CD1	2.77	0.51
3:P:1328:THR:HG22	3:P:1332:LEU:HD11	1.92	0.51
3:P:421:VAL:HG12	3:P:469:HIS:O	2.10	0.51
3:P:492:SER:HG	3:P:495:ASN:H	1.58	0.51
5:R:456:MET:HE2	5:R:456:MET:N	2.26	0.51
7:5:28:DG:H2''	7:5:29:DC:OP2	2.11	0.51
6:7:48:DA:H5''	6:7:48:DA:C8	2.46	0.51
1:A:44:ARG:O	1:A:47:LEU:HB2	2.10	0.51
2:C:3:TYR:OH	2:C:1159:VAL:HG22	2.11	0.51
3:D:474:LEU:O	3:D:478:LEU:HG	2.10	0.51
3:D:746:LEU:HG	3:D:758:PRO:HB3	1.93	0.51
2:I:805:MET:HB2	2:I:806:PRO:HD2	1.92	0.51
3:J:491:LEU:HD22	3:J:496:GLY:O	2.10	0.51
2:O:1289:GLU:OE2	3:P:473:THR:HG23	2.11	0.51
5:R:506:SER:HB3	5:R:509:THR:OG1	2.11	0.51
1:B:110:VAL:HG21	1:B:131:CYS:HB2	1.93	0.51
3:D:975:ILE:HD11	3:D:1003:LEU:HG	1.92	0.51
3:D:1154:ALA:HA	3:D:1211:SER:HB2	1.93	0.51
1:G:15:ASP:C	1:G:16:ILE:HG13	2.26	0.51
1:H:109:PRO:HB3	1:H:132:HIS:NE2	2.24	0.51
2:I:228:VAL:HG21	2:I:337:PHE:HB2	1.93	0.51
3:J:117:LEU:HG	3:J:118:LYS:HD3	1.93	0.51
3:J:1346:GLY:O	3:J:1349:GLU:HG3	2.10	0.51
2:I:1269:ARG:HH11	3:J:340:GLN:HA	1.74	0.51
3:J:705:THR:HG21	3:J:716:GLN:HG2	1.93	0.51
3:J:322:ARG:NH2	5:L:508:GLU:C	2.64	0.51
1:N:67:GLU:O	1:N:78:ILE:HB	2.10	0.51
2:O:13:LYS:HB3	2:O:1182:ILE:HG12	1.93	0.51
2:O:1122:LYS:HG3	2:O:1229:TYR:CE2	2.45	0.51
2:O:39:ILE:O	2:O:39:ILE:HG22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:840:SER:OG	2:O:840:SER:O	2.28	0.51
5:R:376:LYS:O	5:R:380:VAL:HG23	2.11	0.51
1:A:48:LEU:HD12	1:A:183:ILE:HG21	1.90	0.51
1:B:71:LYS:HD3	1:B:140:ILE:HD12	1.92	0.51
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.41	0.51
2:C:736:VAL:HG12	2:C:737:ASN:O	2.11	0.51
2:C:838:CYS:HB2	2:C:918:LEU:HD22	1.93	0.51
3:D:1134:ILE:HG22	3:D:1138:LEU:HD13	1.90	0.51
1:H:6:THR:O	1:H:6:THR:HG22	2.10	0.51
3:J:733:SER:O	3:J:737:ILE:HG13	2.10	0.51
1:M:232:VAL:HG22	1:N:221:ALA:CB	2.39	0.51
1:M:67:GLU:O	1:M:78:ILE:HD12	2.11	0.51
1:N:97:GLU:OE1	1:N:147:GLN:NE2	2.43	0.51
1:N:82:LEU:HD22	1:N:173:VAL:CG2	2.41	0.51
2:O:228:VAL:HG13	2:O:245:ARG:NH1	2.25	0.51
2:O:390:PHE:N	2:O:390:PHE:HD2	2.02	0.51
3:P:128:LEU:HB3	3:P:157:GLN:HE22	1.76	0.51
3:P:501:VAL:HG12	3:P:502:PRO:CD	2.41	0.51
3:P:959:LYS:HD2	3:P:985:ILE:CG1	2.41	0.51
1:A:84:ASN:ND2	1:A:130:ILE:O	2.37	0.51
2:C:1062:PRO:HA	2:C:1076:ILE:HB	1.93	0.51
2:C:1099:ASN:HD21	2:C:1101:LEU:HB2	1.76	0.51
2:C:797:GLY:CA	2:C:1233:LEU:CD2	2.89	0.51
2:C:851:THR:CG2	2:C:852:ALA:H	2.24	0.51
3:D:1145:PHE:O	3:D:1309:ILE:HG13	2.10	0.51
3:D:79:LYS:HG3	5:F:569:THR:CG2	2.40	0.51
2:I:311:CYS:HB3	2:I:321:LEU:HD13	1.91	0.51
2:I:43:PRO:O	2:I:54:ARG:NH1	2.38	0.51
2:I:690:VAL:HG12	2:I:691:PRO:CD	2.40	0.51
3:J:802:ASP:OD1	3:J:1325:PHE:CD1	2.64	0.51
3:J:515:ARG:NH2	3:J:718:SER:O	2.44	0.51
5:L:455:HIS:NE2	6:4:31:DT:H71	2.26	0.51
1:M:228:LEU:HD21	1:N:224:LEU:HD23	1.93	0.51
2:O:151:ARG:HG2	2:O:451:ARG:NH1	2.26	0.51
2:O:61:SER:CB	2:O:66:SER:OG	2.58	0.51
3:P:1002:VAL:O	3:P:1019:ASN:N	2.42	0.51
3:P:1347:LEU:CD2	3:P:1357:ILE:CG2	2.88	0.51
3:P:1360:GLY:HA3	4:Q:17:PHE:CE1	2.46	0.51
3:P:390:LEU:HD13	3:P:411:ILE:HD11	1.92	0.51
3:P:982:LEU:HD23	3:P:995:TYR:HD2	1.75	0.51
5:R:256:PHE:HZ	5:R:261:LEU:HD11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:260:ARG:HH12	5:R:422:ARG:NH2	2.06	0.51
5:L:460:ILE:HG22	7:5:26:DT:H72	1.93	0.51
2:C:178:PRO:HA	2:C:397:LEU:CD2	2.35	0.51
3:D:1080:ILE:HB	3:D:1097:ALA:HB3	1.93	0.51
3:D:370:LYS:HG3	3:D:442:ILE:O	2.12	0.51
2:I:313:ALA:O	2:I:314:ASN:CB	2.59	0.51
2:I:33:ASP:O	2:I:37:LYS:HG3	2.10	0.51
2:I:120:GLN:OE1	2:I:489:PRO:HG2	2.10	0.51
2:I:525:THR:HG21	2:I:687:ARG:CD	2.41	0.51
2:I:980:VAL:O	2:I:980:VAL:HG12	2.09	0.51
3:J:1109:LEU:HD12	3:J:1120:THR:O	2.11	0.51
3:J:908:ILE:HG22	3:J:908:ILE:O	2.10	0.51
1:M:36:GLY:CA	1:M:201:LEU:HD13	2.41	0.51
2:O:524:ILE:CD1	2:O:712:SER:HB3	2.29	0.51
2:O:82:VAL:HG23	2:O:83:GLN:N	2.25	0.51
2:O:870:ILE:HD13	2:O:870:ILE:N	2.25	0.51
2:O:920:VAL:HG13	2:O:921:PRO:HD2	1.92	0.51
2:O:96:LEU:CA	2:O:127:ILE:HD11	2.40	0.51
3:P:111:THR:HG21	3:P:300:GLN:HA	1.93	0.51
3:P:363:LEU:CD2	3:P:487:THR:HG22	2.41	0.51
5:R:373:ARG:O	5:R:377:LYS:HG3	2.11	0.51
2:C:1321:GLU:O	2:C:1325:VAL:HG23	2.11	0.50
2:C:153:PRO:HB2	2:C:401:GLY:CA	2.41	0.50
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.25	0.50
3:D:470:VAL:O	3:D:472:LEU:CD2	2.59	0.50
3:D:580:TRP:O	3:D:580:TRP:CG	2.64	0.50
2:I:1220:GLN:HG2	2:I:1221:PHE:O	2.11	0.50
3:J:1163:VAL:HG13	3:J:1177:ILE:HA	1.93	0.50
3:J:1230:THR:HG23	3:J:1257:VAL:HG11	1.93	0.50
2:I:808:ASN:ND2	3:J:633:ALA:HB2	2.27	0.50
4:K:48:VAL:HA	4:K:51:LEU:CD1	2.40	0.50
5:L:419:PHE:HA	5:L:430:TYR:CE2	2.46	0.50
2:O:242:VAL:O	2:O:245:ARG:HB2	2.11	0.50
2:O:805:MET:CE	2:O:806:PRO:HD2	2.40	0.50
3:P:1279:GLN:HE22	3:P:1307:LEU:HD21	1.76	0.50
3:P:1318:SER:HB2	3:P:1349:GLU:OE2	2.11	0.50
3:P:275:ARG:HG2	3:P:278:ARG:NH2	2.25	0.50
2:O:569:ILE:HD13	3:P:784:ALA:CA	2.40	0.50
3:P:982:LEU:HD23	3:P:995:TYR:CD2	2.46	0.50
6:4:11:DA:H1'	6:4:12:DC:H5'	1.92	0.50
6:7:49:DG:C8	6:7:49:DG:C3'	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:ARG:HG3	1:A:183:ILE:HG12	1.93	0.50
2:C:1117:LEU:HG	2:C:1117:LEU:O	2.10	0.50
2:C:1232:MET:HA	2:C:1232:MET:CE	2.41	0.50
2:C:1260:GLY:O	2:C:1264:GLN:HG2	2.11	0.50
2:C:260:LYS:HE2	2:C:262:TYR:CE2	2.47	0.50
2:C:409:LEU:N	2:C:409:LEU:HD23	2.25	0.50
2:C:521:LEU:HD12	2:C:521:LEU:O	2.12	0.50
2:C:73:TYR:CB	2:C:98:VAL:HG22	2.40	0.50
3:D:1074:LEU:O	3:D:1076:PRO:HD3	2.11	0.50
3:D:112:ALA:CA	3:D:238:ILE:CD1	2.89	0.50
3:D:268:LEU:O	3:D:272:VAL:HG23	2.11	0.50
3:D:744:ARG:HB3	3:D:759:ILE:HG21	1.92	0.50
2:I:1098:LEU:HD23	2:I:1099:ASN:N	2.24	0.50
2:I:1111:GLN:O	2:I:1115:THR:OG1	2.27	0.50
2:I:149:LEU:HD23	2:I:451:ARG:NH2	2.26	0.50
2:I:392:GLU:CD	2:I:392:GLU:H	2.13	0.50
2:I:871:VAL:HG23	2:I:883:LEU:CA	2.41	0.50
3:J:1164:SER:CA	3:J:1175:LEU:HD11	2.42	0.50
3:J:826:ILE:CG1	3:J:831:VAL:HG13	2.30	0.50
1:M:192:VAL:HG12	1:M:193:GLU:H	1.76	0.50
2:O:1232:MET:C	2:O:1233:LEU:HG	2.32	0.50
2:O:1244:HIS:NE2	2:O:1266:GLY:O	2.38	0.50
2:O:1297:ASP:OD2	2:O:1318:GLY:N	2.45	0.50
2:O:211:ARG:CD	2:O:357:ASN:O	2.52	0.50
7:2:25:DA:H1'	7:2:26:DT:H5'	1.94	0.50
5:L:102:MET:HB3	6:4:42:DG:C2	2.46	0.50
2:C:662:SER:OG	2:C:663:VAL:N	2.44	0.50
3:D:1029:THR:HG21	3:D:1080:ILE:HD11	1.93	0.50
3:D:797:THR:HG23	3:D:924:GLY:CA	2.37	0.50
1:H:70:THR:O	1:H:70:THR:CG2	2.59	0.50
2:I:169:LYS:CG	2:I:171:LEU:HD21	2.42	0.50
2:I:641:GLU:HG2	2:I:642:SER:N	2.26	0.50
2:I:729:ALA:O	2:I:730:SER:HB3	2.12	0.50
3:J:1155:ILE:O	3:J:1156:LEU:HD23	2.10	0.50
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.74	0.50
2:I:1340:GLU:O	3:J:17:PHE:HB2	2.10	0.50
3:J:519:ASN:HB3	3:J:523:GLU:CD	2.31	0.50
3:J:512:TYR:CD1	3:J:545:HIS:HE1	2.30	0.50
1:N:106:GLY:HA2	1:N:136:GLU:HA	1.93	0.50
3:P:530:PRO:HB2	3:P:581:MET:HG2	1.94	0.50
2:O:674:ASP:O	3:P:772:TYR:HE1	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:120:ALA:HA	5:R:123:ILE:CD1	2.31	0.50
5:R:460:ILE:HA	5:R:463:LEU:HG	1.94	0.50
7:2:25:DA:C2'	7:2:26:DT:OP2	2.58	0.50
3:D:748:ALA:HB2	3:D:941:ALA:HB3	1.93	0.50
5:F:428:SER:HB2	6:1:40:DA:OP2	2.11	0.50
2:I:1184:THR:O	2:I:1184:THR:CG2	2.59	0.50
2:I:1246:ARG:NH2	2:I:1249:GLY:C	2.64	0.50
2:I:149:LEU:CD2	2:I:451:ARG:HH21	2.24	0.50
2:I:436:ARG:O	2:I:436:ARG:HD2	2.11	0.50
2:I:1288:GLN:OE1	3:J:1356:LEU:HG	2.10	0.50
3:J:452:LEU:HG	3:J:625:MET:SD	2.52	0.50
1:M:38:THR:HG23	1:N:42:ALA:CA	2.38	0.50
1:M:67:GLU:O	1:M:78:ILE:CB	2.60	0.50
1:N:82:LEU:CD2	1:N:173:VAL:CG2	2.89	0.50
2:O:525:THR:HG21	2:O:687:ARG:CD	2.40	0.50
2:O:898:GLU:H	2:O:898:GLU:CD	2.14	0.50
5:R:167:ASP:N	5:R:168:PRO:CD	2.73	0.50
6:7:32:DA:H2''	6:7:33:DT:OP2	2.12	0.50
2:C:1142:ARG:CG	2:C:1161:LEU:HD23	2.41	0.50
2:C:638:SER:O	2:C:639:LYS:HB3	2.11	0.50
3:D:378:LYS:HB3	3:D:379:PRO:CD	2.42	0.50
3:D:355:ILE:HD12	3:D:461:PHE:CE1	2.45	0.50
3:D:615:LYS:O	3:D:618:VAL:HB	2.12	0.50
3:D:841:GLY:O	3:D:863:LEU:HD11	2.11	0.50
4:E:7:GLN:O	4:E:10:VAL:HB	2.12	0.50
1:G:226:GLU:O	1:G:229:GLU:HB2	2.12	0.50
2:I:516:ASP:HB3	2:I:522:SER:OG	2.11	0.50
2:I:528:ARG:HD2	2:I:663:VAL:HG21	1.93	0.50
3:J:67:ASP:OD1	3:J:67:ASP:N	2.45	0.50
1:M:15:ASP:HB3	1:M:27:THR:OG1	2.11	0.50
2:O:336:LEU:N	2:O:336:LEU:HD23	2.26	0.50
2:O:496:LYS:HE2	7:8:24:DT:H5''	1.92	0.50
3:P:1229:VAL:HG13	3:P:1230:THR:N	2.27	0.50
3:P:1319:PHE:HD2	3:P:1340:LYS:HD3	1.76	0.50
3:P:783:LEU:HD13	3:P:936:HIS:CB	2.41	0.50
6:7:30:DG:N2	7:8:34:DG:C2	2.80	0.50
2:C:373:GLY:CA	5:F:91:ILE:HG12	2.42	0.50
2:C:798:GLN:CB	2:C:827:ARG:NH2	2.71	0.50
2:C:840:SER:OG	2:C:1048:LYS:N	2.45	0.50
3:D:109:SER:HB3	3:D:299:LEU:HD22	1.93	0.50
3:D:202:ARG:HA	3:D:205:LEU:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:112:GLY:C	2:I:114:VAL:H	2.13	0.50
3:J:1287:ILE:HG22	3:J:1288:ALA:CA	2.42	0.50
3:J:1350:ASN:ND2	3:J:1356:LEU:O	2.44	0.50
3:J:473:THR:O	3:J:476:ALA:HB3	2.11	0.50
3:J:644:MET:HG3	3:J:722:ILE:CD1	2.41	0.50
3:J:910:ASN:ND2	4:K:15:ASN:HA	2.26	0.50
5:L:563:PHE:HB2	5:L:565:ILE:CD1	2.41	0.50
1:N:89:ALA:HB2	1:N:208:ASN:HD21	1.77	0.50
2:O:165:HIS:HB3	2:O:167:SER:HB2	1.93	0.50
2:O:135:THR:HG21	2:O:515:MET:CE	2.41	0.50
3:P:178:ALA:O	3:P:179:LYS:HD2	2.11	0.50
3:P:237:MET:O	3:P:238:ILE:HD13	2.11	0.50
3:P:450:HIS:HD2	3:P:452:LEU:H	1.60	0.50
3:P:572:THR:HG1	3:P:576:ARG:HB2	1.77	0.50
3:P:589:TYR:O	3:P:592:VAL:HG12	2.11	0.50
3:P:849:LEU:HD21	3:P:857:LEU:HD23	1.92	0.50
5:R:283:GLN:CB	5:R:344:LEU:HD21	2.42	0.50
5:R:333:VAL:HG13	5:R:333:VAL:O	2.10	0.50
6:1:47:DC:C6	6:1:47:DC:C5'	2.80	0.50
7:2:18:DT:H2''	7:2:19:DA:OP1	2.11	0.50
8:6:14:A:H3'	8:6:15:G:H8	1.76	0.50
1:A:75:GLN:HG2	1:A:134:THR:CG2	2.42	0.50
2:C:237:LEU:O	2:C:287:VAL:HG22	2.11	0.50
3:D:1079:LYS:HE3	3:D:1087:ASP:OD1	2.11	0.50
3:D:1151:LYS:HD3	3:D:1151:LYS:N	2.26	0.50
5:F:137:TYR:CE1	5:F:353:LEU:CD1	2.90	0.50
1:G:65:LEU:HD22	1:G:168:ILE:HG22	1.94	0.50
1:G:30:PRO:HB3	1:G:198:LEU:HD13	1.94	0.50
2:I:448:LEU:HD11	2:I:553:THR:HB	1.93	0.50
2:I:448:LEU:HD11	2:I:553:THR:CB	2.42	0.50
2:I:757:THR:O	2:I:833:ILE:HD12	2.12	0.50
3:J:746:LEU:CD2	3:J:758:PRO:HB3	2.42	0.50
3:P:116:PHE:HE1	3:P:1333:THR:HG22	1.72	0.50
3:P:544:LEU:HA	3:P:574:VAL:HB	1.93	0.50
3:P:790:THR:HG21	3:P:932:MET:HG3	1.94	0.50
7:2:14:DC:H2'	7:2:15:DT:C6	2.47	0.50
2:C:1177:ARG:HG2	2:C:1177:ARG:O	2.10	0.50
3:D:1169:THR:HG21	3:D:1172:LYS:HD2	1.92	0.50
3:D:891:ASP:O	3:D:892:PHE:HB2	2.11	0.50
5:F:407:GLU:CD	5:F:442:SER:CB	2.80	0.50
2:I:1061:GLN:CB	2:I:1062:PRO:HD2	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1142:ARG:CG	2:I:1161:LEU:HD23	2.42	0.50
2:I:1243:MET:SD	3:J:445:LYS:CB	2.99	0.50
3:J:580:TRP:CZ3	3:J:583:VAL:CG1	2.90	0.50
3:J:848:VAL:CG2	3:J:880:VAL:HG13	2.36	0.50
1:N:90:VAL:HG11	1:N:146:VAL:HG11	1.94	0.50
2:O:1151:LEU:CD2	2:O:1198:LEU:HA	2.41	0.50
2:O:750:ILE:HD13	2:O:963:GLU:CG	2.42	0.50
3:P:1207:GLY:CA	3:P:1223:LEU:HD13	2.38	0.50
3:P:783:LEU:HD13	3:P:936:HIS:HB3	1.94	0.50
2:O:470:ARG:NH2	5:R:397:ARG:NH1	2.60	0.50
5:R:454:VAL:HG21	6:7:32:DA:N7	2.26	0.50
3:P:334:LYS:NZ	7:8:14:DC:OP1	2.44	0.50
1:B:140:ILE:HG12	1:B:142:MET:CE	2.42	0.50
2:C:698:PRO:HG3	2:C:1231:TYR:OH	2.11	0.50
2:C:488:MET:HB3	2:C:489:PRO:HD2	1.93	0.50
2:C:653:MET:CE	2:C:654:ASP:O	2.60	0.50
3:D:1234:VAL:HG12	3:D:1235:ASN:N	2.27	0.50
3:D:356:THR:OG1	3:D:446:ALA:HB1	2.12	0.50
3:D:741:ALA:C	3:D:762:ASN:HD22	2.14	0.50
1:G:156:SER:HA	1:G:159:ILE:HD12	1.92	0.50
2:I:285:ILE:HG22	2:I:286:GLU:O	2.12	0.50
2:I:337:PHE:O	2:I:338:THR:HG23	2.12	0.50
2:I:870:ILE:CG1	2:I:944:ARG:HG2	2.42	0.50
3:J:28:ASP:HA	3:J:31:ARG:HD2	1.93	0.50
2:O:906:PHE:C	2:O:908:GLU:H	2.15	0.50
3:P:381:ILE:O	3:P:385:LEU:HG	2.12	0.50
4:Q:44:ASP:CG	4:Q:52:ARG:NH2	2.65	0.50
7:8:23:DT:H2'	7:8:24:DT:O4'	2.11	0.49
1:B:44:ARG:HA	1:B:183:ILE:HD13	1.93	0.49
2:C:335:THR:CG2	2:C:336:LEU:H	2.24	0.49
2:C:811:ASN:ND2	2:C:1099:ASN:CA	2.74	0.49
2:C:75:LEU:CD2	2:C:94:ALA:CB	2.88	0.49
3:D:366:CYS:SG	3:D:439:PRO:HA	2.52	0.49
3:D:76:LYS:O	3:D:77:ARG:HB2	2.11	0.49
1:G:202:VAL:O	1:G:202:VAL:HG12	2.12	0.49
2:I:1182:ILE:HG22	2:I:1183:ALA:N	2.27	0.49
2:I:1273:MET:HA	2:I:1276:TRP:CE3	2.47	0.49
2:I:424:ASP:O	2:I:428:VAL:CG2	2.60	0.49
3:J:475:GLU:HG3	4:K:24:ALA:CB	2.41	0.49
5:L:166:VAL:HG12	5:L:167:ASP:N	2.26	0.49
5:L:388:ILE:HG23	5:L:389:SER:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:11:PRO:HG3	1:N:227:GLN:HB3	1.94	0.49
2:O:347:ILE:HG22	2:O:351:LEU:CD1	2.41	0.49
3:P:363:LEU:HD23	3:P:487:THR:HG22	1.93	0.49
7:5:51:DG:H2''	7:5:52:DT:OP2	2.11	0.49
6:7:42:DG:C4'	6:7:43:DT:OP2	2.60	0.49
2:C:61:SER:HB2	2:C:66:SER:OG	2.12	0.49
3:D:1024:THR:HG22	3:D:1024:THR:O	2.13	0.49
3:D:360:TYR:CD1	3:D:361:LEU:HD23	2.46	0.49
2:C:809:GLY:CA	3:D:629:PHE:CE1	2.94	0.49
1:H:129:VAL:CG1	1:H:132:HIS:CE1	2.95	0.49
2:I:700:VAL:CG2	2:I:1114:GLU:HG3	2.38	0.49
2:I:796:LEU:O	2:I:1233:LEU:HD21	2.12	0.49
2:I:810:TYR:HE2	2:I:1078:LYS:HD3	1.76	0.49
3:J:828:GLY:O	3:J:994:SER:C	2.50	0.49
2:O:1278:LEU:HD22	2:O:1283:ALA:O	2.12	0.49
2:O:185:ASP:OD2	2:O:200:ARG:HD3	2.11	0.49
3:P:1138:LEU:HG	3:P:1139:PRO:N	2.27	0.49
3:P:847:ASP:OD1	3:P:860:ARG:HB3	2.12	0.49
5:R:492:ASP:OD1	5:R:492:ASP:N	2.35	0.49
3:P:395:LYS:NZ	5:R:610:PHE:HA	2.27	0.49
1:A:222:THR:HG22	1:A:223:ILE:N	2.28	0.49
1:A:38:THR:HG21	1:B:46:ILE:HD11	1.94	0.49
1:A:48:LEU:HG	1:A:180:VAL:CG1	2.43	0.49
1:A:42:ALA:CA	1:B:38:THR:HG23	2.32	0.49
2:C:1223:ARG:HG2	3:D:635:SER:O	2.12	0.49
2:C:1273:MET:SD	3:D:428:THR:HB	2.51	0.49
3:D:1024:THR:HG21	3:D:1123:ARG:HE	1.77	0.49
3:D:1312:ALA:O	3:D:1316:THR:HG23	2.12	0.49
2:I:1124:ILE:HD11	2:I:1198:LEU:HD21	1.93	0.49
3:J:1156:LEU:HD23	3:J:1156:LEU:N	2.27	0.49
3:J:1164:SER:O	3:J:1175:LEU:HD12	1.98	0.49
3:J:300:GLN:HG2	3:J:304:ASP:OD2	2.12	0.49
3:J:589:TYR:O	3:J:591:ILE:N	2.45	0.49
3:J:846:GLU:HG2	3:J:847:ASP:H	1.77	0.49
3:J:884:SER:OG	3:J:886:VAL:HG23	2.12	0.49
3:J:322:ARG:HH22	5:L:508:GLU:C	2.16	0.49
5:L:91:ILE:O	5:L:91:ILE:HG22	2.11	0.49
1:M:36:GLY:O	1:M:201:LEU:CD1	2.58	0.49
2:O:402:ARG:HG2	2:O:416:GLY:HA3	1.93	0.49
2:O:658:GLN:HE21	2:O:1186:VAL:CG2	2.23	0.49
2:O:895:LEU:HD12	2:O:899:GLU:OE1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1093:THR:CG2	3:P:1200:GLU:OE1	2.60	0.49
3:P:886:VAL:HA	3:P:1258:ARG:HB2	1.95	0.49
2:C:1008:GLN:HA	2:C:1008:GLN:OE1	2.11	0.49
2:C:225:PHE:CE2	2:C:347:ILE:HB	2.47	0.49
3:D:1163:VAL:CG1	3:D:1177:ILE:HG12	2.42	0.49
1:G:30:PRO:CB	1:G:198:LEU:HD13	2.42	0.49
2:I:841:ARG:HG2	2:I:1046:VAL:HA	1.93	0.49
2:I:1101:LEU:HD11	3:J:508:LEU:HD22	1.93	0.49
2:I:155:VAL:HG22	2:I:405:PHE:CE2	2.47	0.49
2:I:929:ILE:CG2	2:I:930:ASP:N	2.75	0.49
3:J:1251:LYS:O	3:J:1255:VAL:HG23	2.13	0.49
2:I:1268:GLN:NE2	3:J:351:GLY:C	2.56	0.49
3:J:403:ARG:O	3:J:404:GLU:HB2	2.12	0.49
3:J:544:LEU:HD22	3:J:578:ILE:CD1	2.42	0.49
3:J:759:ILE:HG23	3:J:771:GLN:CD	2.32	0.49
3:J:263:SER:HB2	5:L:507:MET:SD	2.52	0.49
1:N:155:ALA:CB	1:N:174:ASP:OD1	2.61	0.49
2:O:112:GLY:C	2:O:114:VAL:H	2.15	0.49
2:O:213:LEU:HD13	2:O:422:LYS:HB3	1.95	0.49
3:P:843:VAL:HB	3:P:897:HIS:O	2.12	0.49
5:L:573:LEU:CB	7:5:45:DT:H3'	2.40	0.49
6:7:42:DG:H3'	6:7:42:DG:P	2.52	0.49
2:C:253:PHE:CE1	2:C:255:ILE:HG23	2.48	0.49
2:C:75:LEU:CD2	2:C:94:ALA:HB1	2.43	0.49
3:D:1156:LEU:CD2	3:D:1209:VAL:HA	2.43	0.49
3:D:1267:VAL:O	3:D:1268:ASN:CB	2.57	0.49
3:D:544:LEU:HA	3:D:574:VAL:CB	2.38	0.49
3:D:647:PRO:HD3	3:D:697:MET:HG3	1.94	0.49
3:D:739:GLN:C	3:D:740:LEU:HD23	2.32	0.49
3:D:786:THR:OG1	3:D:932:MET:HA	2.12	0.49
1:G:98:VAL:HG22	1:G:146:VAL:HB	1.94	0.49
2:I:1087:TYR:N	2:I:1087:TYR:CD1	2.80	0.49
2:I:227:LYS:HZ1	2:I:298:ALA:HB1	1.76	0.49
2:I:888:THR:HB	2:I:914:LYS:HB2	1.94	0.49
3:J:1229:VAL:CG1	3:J:1230:THR:N	2.74	0.49
3:J:1347:LEU:O	3:J:1351:VAL:HG23	2.12	0.49
3:J:553:THR:O	3:J:553:THR:HG22	2.11	0.49
3:J:739:GLN:HG2	3:J:744:ARG:HA	1.94	0.49
3:J:1360:GLY:HA2	4:K:17:PHE:CE2	2.48	0.49
2:O:1292:THR:HG23	2:O:1293:VAL:N	2.24	0.49
2:O:24:VAL:HG12	2:O:27:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:696:ASP:CB	2:O:798:GLN:HG2	2.42	0.49
2:O:907:GLY:O	2:O:908:GLU:C	2.51	0.49
3:P:1078:LEU:HD13	3:P:1121:LEU:HD22	1.95	0.49
3:P:1100:PHE:HB2	3:P:1193:TRP:HA	1.93	0.49
3:P:580:TRP:O	3:P:580:TRP:CG	2.65	0.49
7:5:23:DT:C2'	7:5:24:DT:OP1	2.60	0.49
5:R:493:LYS:NZ	6:7:30:DG:P	2.86	0.49
1:A:190:ALA:HB2	1:A:200:LYS:HB3	1.94	0.49
2:C:128:PRO:CD	2:C:502:VAL:HG11	2.42	0.49
2:C:176:ILE:HG22	2:C:176:ILE:O	2.11	0.49
2:C:698:PRO:HA	2:C:1231:TYR:CD1	2.44	0.49
3:D:1027:VAL:CG2	3:D:1124:ILE:HD11	2.43	0.49
3:D:139:LEU:HD22	3:D:185:ILE:HD12	1.88	0.49
2:C:660:VAL:HG21	3:D:769:VAL:HG13	1.94	0.49
1:G:224:LEU:HD11	1:G:228:LEU:HD12	1.93	0.49
1:G:225:ALA:CB	1:H:228:LEU:HD13	2.36	0.49
2:I:1061:GLN:NE2	2:I:1240:ASP:OD1	2.45	0.49
2:I:275:ARG:HH22	2:I:279:LYS:CD	2.25	0.49
2:I:663:VAL:O	2:I:666:SER:OG	2.27	0.49
3:J:803:VAL:HG12	3:J:804:ALA:N	2.27	0.49
1:N:155:ALA:HB2	1:N:174:ASP:OD1	2.12	0.49
2:O:12:ARG:HG3	2:O:1181:PRO:O	2.11	0.49
2:O:22:LEU:HG	2:O:23:ASP:N	2.27	0.49
2:O:256:GLU:CA	2:O:261:VAL:HG13	2.42	0.49
2:O:533:LEU:HD22	2:O:538:LEU:O	2.13	0.49
3:P:166:LEU:HA	3:P:169:LEU:HB3	1.95	0.49
3:P:600:ALA:O	3:P:604:MET:HG3	2.13	0.49
3:P:744:ARG:O	3:P:744:ARG:HG3	2.12	0.49
7:8:4:DC:N3	7:8:5:DC:C4	2.81	0.49
2:C:232:ILE:HD13	2:C:326:SER:CB	2.43	0.49
2:C:993:PRO:HG2	2:C:996:ARG:NH1	2.28	0.49
3:D:395:LYS:CG	3:D:399:LYS:HE2	2.43	0.49
3:D:423:LEU:CD2	3:D:468:VAL:HG13	2.42	0.49
3:D:495:ASN:OD1	3:D:495:ASN:N	2.46	0.49
3:D:816:THR:HG22	3:D:818:GLU:H	1.76	0.49
3:D:251:PRO:C	5:F:507:MET:HE1	2.33	0.49
1:G:229:GLU:O	1:G:233:ASP:CB	2.46	0.49
1:H:158:ARG:C	1:H:160:HIS:H	2.15	0.49
1:H:219:ARG:O	1:H:223:ILE:HG13	2.12	0.49
1:G:45:ARG:HD3	1:H:38:THR:CG2	2.43	0.49
2:I:1064:ASP:OD1	2:I:1239:VAL:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1323:PHE:CE1	2:I:1327:LEU:HD21	2.47	0.49
3:J:909:ILE:HG12	3:J:910:ASN:O	2.12	0.49
5:L:237:ALA:O	5:L:238:LYS:HB2	2.12	0.49
1:M:102:LEU:HD21	1:M:110:VAL:CG1	2.42	0.49
2:O:1108:ASN:OD1	2:O:1108:ASN:N	2.41	0.49
2:O:253:PHE:CD2	2:O:253:PHE:N	2.81	0.49
3:P:1283:SER:HA	3:P:1286:LYS:HD3	1.95	0.49
3:P:84:ILE:O	3:P:84:ILE:HG23	2.12	0.49
3:P:809:VAL:CG2	3:P:915:ILE:HD11	2.42	0.49
6:1:53:DG:H2''	6:1:54:DA:OP2	2.11	0.49
6:7:53:DG:H2''	6:7:54:DA:H5'	1.93	0.49
1:A:48:LEU:HG	1:A:180:VAL:HG11	1.94	0.49
1:A:56:VAL:HG23	1:A:85:LEU:O	2.12	0.49
2:C:1278:LEU:HD13	2:C:1287:LEU:HA	1.95	0.49
2:C:1302:THR:O	2:C:1305:TYR:HB3	2.13	0.49
2:C:149:LEU:HD11	2:C:451:ARG:CB	2.15	0.49
2:C:435:ILE:HG12	2:C:440:GLY:HA3	1.95	0.49
2:C:446:ASP:N	2:C:446:ASP:OD1	2.45	0.49
2:C:668:ILE:HG21	2:C:671:LEU:HD13	1.93	0.49
2:C:667:LEU:CD1	2:C:794:LEU:HD23	2.42	0.49
2:I:96:LEU:CB	2:I:127:ILE:HD11	2.42	0.49
2:I:1284:ALA:HB1	3:J:1357:ILE:HD12	1.95	0.49
2:I:884:VAL:O	2:I:917:SER:CB	2.60	0.49
3:J:133:ARG:HH21	5:L:93:ARG:HH11	1.60	0.49
3:J:382:TYR:O	3:J:385:LEU:HB2	2.13	0.49
3:J:427:PRO:O	3:J:429:LEU:HG	2.13	0.49
4:K:15:ASN:HB3	4:K:18:ASP:HB2	1.93	0.49
5:L:266:PHE:O	5:L:270:VAL:HG23	2.13	0.49
5:L:395:THR:HG22	5:L:404:LEU:HD12	1.95	0.49
1:M:188:GLU:OE2	1:M:202:VAL:HG21	2.13	0.49
1:M:28:LEU:CD1	1:N:231:PHE:CZ	2.95	0.49
3:P:147:ILE:HG13	3:P:178:ALA:HA	1.95	0.49
4:Q:26:ARG:HH11	4:Q:64:LEU:HD21	1.77	0.49
5:R:383:ASN:ND2	6:7:41:DT:H3	2.06	0.49
2:O:514:PHE:CE2	7:8:19:DA:O4'	2.66	0.49
2:C:1100:PRO:HB3	3:D:639:VAL:CG2	2.39	0.49
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.28	0.49
3:D:412:LEU:HG	3:D:416:ILE:CD1	2.43	0.49
2:I:1278:LEU:HD22	2:I:1283:ALA:CB	2.37	0.49
2:I:142:GLU:CG	2:I:515:MET:HE2	2.43	0.49
2:I:736:VAL:HG12	2:I:737:ASN:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:840:SER:O	2:I:840:SER:OG	2.29	0.49
3:J:1255:VAL:HG12	3:J:1256:ILE:N	2.27	0.49
3:J:370:LYS:HA	3:J:441:LEU:HD22	1.95	0.49
3:J:759:ILE:HG21	3:J:767:LEU:HD22	1.95	0.49
3:J:899:TYR:CZ	3:J:915:ILE:HG23	2.48	0.49
1:M:208:ASN:ND2	1:M:208:ASN:H	2.10	0.49
2:O:1278:LEU:HD13	2:O:1287:LEU:CA	2.43	0.49
2:O:398:SER:OG	2:O:399:ALA:N	2.43	0.49
2:O:82:VAL:HG23	2:O:83:GLN:H	1.78	0.49
2:O:660:VAL:HG21	3:P:769:VAL:HG12	1.94	0.49
7:8:47:DT:H2''	7:8:48:DC:H5''	1.95	0.49
1:B:35:PHE:CD2	1:B:35:PHE:N	2.79	0.49
1:B:83:LEU:O	3:D:528:THR:HG21	2.12	0.49
2:C:94:ALA:CB	2:C:129:LEU:HD11	2.42	0.49
3:D:1163:VAL:CG1	3:D:1175:LEU:CD2	2.82	0.49
3:D:749:LYS:HG2	3:D:755:ILE:CG1	2.43	0.49
3:D:909:ILE:HD13	3:D:915:ILE:HG12	1.94	0.49
5:F:279:ARG:NH2	5:F:347:ILE:HG12	2.28	0.49
1:G:45:ARG:HD3	1:H:38:THR:OG1	2.12	0.49
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.76	0.49
2:I:1281:TYR:CE1	3:J:489:ASN:ND2	2.81	0.49
2:I:844:LYS:HG2	2:I:845:LEU:HD23	1.94	0.49
2:I:90:VAL:CG1	2:I:91:THR:N	2.75	0.49
3:J:1264:ALA:HB1	3:J:1303:SER:O	2.13	0.49
3:J:133:ARG:HH21	5:L:93:ARG:NH1	2.10	0.49
3:J:311:ARG:NH2	3:J:1329:THR:HG21	2.28	0.49
3:J:492:SER:OG	3:J:495:ASN:OD1	2.22	0.49
3:J:984:LEU:HD22	3:J:993:GLU:OE1	2.12	0.49
3:J:994:SER:O	3:J:995:TYR:CG	2.66	0.49
3:J:294:ASN:ND2	5:L:406:GLN:HE21	2.09	0.49
1:M:179:PRO:O	1:M:208:ASN:ND2	2.46	0.49
1:N:75:GLN:HG3	1:N:134:THR:CG2	2.38	0.49
2:O:150:HIS:CE1	2:O:454:ARG:CD	2.96	0.49
2:O:748:ILE:HD11	2:O:970:GLY:HA3	1.93	0.49
3:P:930:LEU:CB	3:P:1134:ILE:HD11	2.38	0.49
6:4:43:DT:H3'	6:4:44:DG:H5''	1.94	0.48
6:4:52:DT:H1'	6:4:53:DG:C5	2.47	0.48
1:A:224:LEU:HD11	1:A:228:LEU:HD11	1.94	0.48
2:C:1123:GLY:O	2:C:1127:LYS:HG2	2.12	0.48
2:C:253:PHE:HE1	2:C:255:ILE:HG23	1.78	0.48
2:C:25:PRO:HD3	2:C:578:TYR:CD1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1156:LEU:HD23	3:D:1209:VAL:HA	1.95	0.48
3:D:1280:VAL:CG1	3:D:1281:GLU:N	2.75	0.48
3:D:97:VAL:CG1	3:D:101:ARG:HG3	2.43	0.48
2:I:228:VAL:CG2	2:I:337:PHE:HB2	2.43	0.48
3:J:1272:SER:CB	3:J:1274:PHE:HE2	2.24	0.48
5:L:353:LEU:HA	5:L:353:LEU:HD23	1.65	0.48
1:M:228:LEU:O	1:M:232:VAL:HG23	2.13	0.48
1:N:52:PRO:HB3	1:N:150:ARG:HB3	1.95	0.48
1:M:225:ALA:HB2	1:N:228:LEU:HD13	1.94	0.48
2:O:525:THR:HG21	2:O:687:ARG:HD3	1.94	0.48
3:P:23:ALA:HB1	3:P:232:ASN:HD21	1.78	0.48
3:P:423:LEU:HB3	3:P:466:MET:CE	2.42	0.48
3:P:653:ILE:HD13	3:P:692:ARG:HB3	1.94	0.48
3:P:768:ASN:OD1	3:P:768:ASN:C	2.52	0.48
5:R:461:ASN:N	5:R:461:ASN:OD1	2.44	0.48
5:L:426:LYS:HG2	6:4:39:DA:H3'	1.95	0.48
1:B:110:VAL:HB	1:B:131:CYS:H	1.78	0.48
1:B:33:ARG:O	1:B:35:PHE:HD2	1.96	0.48
1:B:48:LEU:CD2	1:B:180:VAL:HB	2.43	0.48
2:C:811:ASN:HD22	2:C:1099:ASN:CA	2.26	0.48
2:C:606:LEU:HA	2:C:610:GLU:OE1	2.13	0.48
3:D:557:LYS:HG2	3:D:558:ASP:O	2.13	0.48
1:H:187:VAL:O	1:H:187:VAL:HG23	2.14	0.48
2:I:1334:GLY:O	3:J:25:ALA:CB	2.62	0.48
3:J:1011:VAL:CG1	3:J:1017:VAL:HG12	2.43	0.48
3:J:544:LEU:CD2	3:J:578:ILE:HD11	2.43	0.48
4:K:6:VAL:HG11	4:K:51:LEU:HD22	1.96	0.48
4:K:5:THR:HG22	4:K:7:GLN:H	1.78	0.48
3:J:262:THR:HA	5:L:507:MET:HE3	1.95	0.48
2:O:369:MET:HE2	2:O:369:MET:O	2.13	0.48
2:O:694:ARG:O	2:O:798:GLN:NE2	2.46	0.48
3:P:252:LEU:HD11	3:P:260:PHE:HB3	1.95	0.48
2:O:1326:LEU:HD13	3:P:342:LEU:HD11	1.96	0.48
3:P:373:ALA:CA	3:P:376:LEU:CD1	2.60	0.48
3:P:405:GLU:HB2	3:P:408:VAL:HG23	1.95	0.48
6:4:56:DG:C2	7:5:8:DG:C2	3.01	0.48
1:A:156:SER:HA	1:A:159:ILE:HG22	1.94	0.48
1:A:187:VAL:HG22	1:A:201:LEU:HD12	1.93	0.48
1:B:88:LEU:CD2	1:B:128:HIS:HD2	2.16	0.48
2:C:1109:ILE:HG21	3:D:644:MET:HE3	1.90	0.48
2:C:425:ILE:O	2:C:428:VAL:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:812:PHE:CD2	2:C:813:GLU:HG3	2.48	0.48
3:D:310:GLY:HA2	3:D:315:ALA:HB2	1.95	0.48
3:D:534:GLU:HG3	3:D:534:GLU:O	2.12	0.48
5:F:458:GLU:OE2	7:2:28:DG:C8	2.66	0.48
1:G:33:ARG:CB	1:G:33:ARG:CZ	2.89	0.48
1:H:43:LEU:C	1:H:47:LEU:HD12	2.33	0.48
1:H:69:SER:OG	1:H:78:ILE:HD11	2.13	0.48
2:I:798:GLN:OE1	2:I:827:ARG:HB3	2.14	0.48
3:J:1148:ARG:HG2	6:4:55:DC:OP1	2.13	0.48
3:J:425:ARG:HB2	3:J:466:MET:HE3	1.94	0.48
1:H:83:LEU:HB3	3:J:528:THR:HG22	1.95	0.48
3:J:584:PRO:HD3	3:J:620:PHE:CD1	2.48	0.48
3:J:58:CYS:SG	3:J:60:ARG:N	2.86	0.48
2:I:1104:PRO:HG2	3:J:725:MET:HE1	1.95	0.48
3:J:742:GLY:O	3:J:762:ASN:HB3	2.14	0.48
3:J:975:ILE:CD1	3:J:980:THR:HG21	2.44	0.48
3:J:398:LYS:HZ1	5:L:532:LEU:HG	1.77	0.48
1:M:81:ILE:HG23	1:M:130:ILE:HG23	1.95	0.48
2:O:1269:ARG:HB2	3:P:346:ARG:HD3	1.96	0.48
2:O:869:GLY:C	2:O:870:ILE:HD13	2.34	0.48
3:P:1174:ARG:HG3	3:P:1189:MET:HB3	1.95	0.48
3:P:744:ARG:HB3	3:P:759:ILE:CG2	2.43	0.48
3:P:84:ILE:O	3:P:84:ILE:HG22	2.12	0.48
3:P:849:LEU:CD1	3:P:857:LEU:CD2	2.90	0.48
1:G:192:VAL:HG12	4:Q:69:ARG:NH2	2.27	0.48
6:1:50:DT:H5'	6:1:51:DC:C6	2.48	0.48
6:7:53:DG:H1'	6:7:54:DA:H5'	1.95	0.48
8:9:14:A:H5'	8:9:15:G:OP2	2.12	0.48
1:A:100:LEU:HD13	1:A:115:ILE:CG2	2.23	0.48
1:B:179:PRO:O	1:B:208:ASN:HB2	2.12	0.48
1:B:69:SER:O	1:B:78:ILE:HG13	2.14	0.48
2:C:232:ILE:HD13	2:C:326:SER:HB3	1.95	0.48
3:D:923:ILE:O	3:D:926:PRO:HD2	2.12	0.48
1:G:232:VAL:HG12	1:H:218:ARG:HG2	1.95	0.48
1:H:166:ARG:HB2	1:H:166:ARG:CZ	2.42	0.48
2:I:1164:PHE:HD2	2:I:1164:PHE:N	2.11	0.48
2:I:80:PHE:HB2	2:I:85:CYS:SG	2.53	0.48
2:I:936:ARG:HH21	2:I:1047:LEU:CD2	2.26	0.48
3:J:1031:VAL:HG23	3:J:1080:ILE:HG21	1.95	0.48
3:J:1062:LEU:HD22	3:J:1066:GLU:OE1	2.13	0.48
3:J:141:PHE:CE1	3:J:181:GLY:HA3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:708:ASN:HA	3:J:713:GLU:HA	1.94	0.48
2:I:1107:MET:HE2	3:J:740:LEU:CD2	2.43	0.48
4:K:50:ALA:O	4:K:54:ILE:CG1	2.61	0.48
5:L:449:THR:OG1	5:L:504:PRO:HG3	2.13	0.48
1:M:224:LEU:HD21	1:N:228:LEU:HD21	1.96	0.48
2:O:1324:ASN:O	2:O:1328:LYS:HG2	2.12	0.48
3:P:591:ILE:HG21	3:P:604:MET:HG2	1.93	0.48
3:P:843:VAL:HG11	3:P:883:ARG:HD3	1.95	0.48
5:R:588:ARG:HG3	5:R:589:GLN:N	2.29	0.48
6:1:50:DT:C5'	6:1:51:DC:C6	2.96	0.48
7:8:36:DG:H2''	7:8:37:DA:H5'	1.95	0.48
2:C:1025:PHE:HA	2:C:1028:LYS:HB2	1.95	0.48
2:C:511:LEU:HD23	2:C:511:LEU:N	2.28	0.48
2:C:529:ARG:C	2:C:530:ILE:HG13	2.34	0.48
3:D:805:GLN:NE2	3:D:1347:LEU:N	2.61	0.48
3:D:53:ARG:O	3:D:58:CYS:HB2	2.13	0.48
5:F:345:GLN:O	5:F:348:GLU:HB2	2.14	0.48
1:G:192:VAL:HG21	1:G:198:LEU:HB2	1.95	0.48
2:I:1072:ASN:ND2	2:I:1111:GLN:OE1	2.47	0.48
2:I:1289:GLU:HA	2:I:1293:VAL:HG22	1.96	0.48
2:I:1294:LYS:CB	3:J:347:VAL:HG13	2.42	0.48
2:I:237:LEU:HB2	2:I:287:VAL:CG2	2.43	0.48
3:J:450:HIS:CE1	3:J:625:MET:HE3	2.48	0.48
5:L:126:GLY:O	5:L:130:VAL:HG23	2.12	0.48
5:L:309:ASN:OD1	5:L:312:SER:HB3	2.14	0.48
1:M:185:TYR:CD2	1:M:185:TYR:O	2.66	0.48
2:O:155:VAL:HG13	2:O:176:ILE:HG12	1.95	0.48
2:O:153:PRO:CA	2:O:177:ILE:HG22	2.38	0.48
3:P:1301:THR:HG22	3:P:1302:TYR:H	1.79	0.48
1:H:168:ILE:CG1	3:P:867:GLN:HB3	2.44	0.48
5:R:402:LEU:HA	5:R:405:ILE:CD1	2.42	0.48
6:1:50:DT:C3'	6:1:51:DC:H5'	2.43	0.48
7:2:6:DG:H2'	7:2:7:DC:C6	2.48	0.48
3:J:425:ARG:HH22	8:6:16:U:C1'	2.26	0.48
1:A:43:LEU:O	1:A:47:LEU:HD12	2.13	0.48
1:B:95:LYS:HD2	1:B:120:ASP:OD2	2.14	0.48
1:B:111:THR:OG1	1:B:126:PRO:O	2.31	0.48
2:C:14:ASP:HA	2:C:1183:ALA:HB3	1.94	0.48
2:C:390:PHE:CD2	2:C:390:PHE:N	2.81	0.48
3:D:923:ILE:HD11	3:D:1252:HIS:HB2	1.94	0.48
3:D:807:LEU:HD13	3:D:1259:GLN:HE21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:320:ASN:HB2	3:D:322:ARG:HG2	1.95	0.48
4:E:26:ARG:HB2	4:E:64:LEU:HD11	1.95	0.48
5:F:381:GLU:O	5:F:384:LEU:CG	2.57	0.48
1:G:224:LEU:HD23	1:H:228:LEU:HD21	1.94	0.48
1:G:71:LYS:O	1:G:74:VAL:HG23	2.13	0.48
2:I:217:THR:HG22	2:I:221:LEU:HD12	1.95	0.48
2:I:448:LEU:CD2	2:I:448:LEU:H	2.22	0.48
2:I:808:ASN:HD22	2:I:808:ASN:N	2.10	0.48
3:J:1144:LEU:HD13	3:J:1237:VAL:CG2	2.41	0.48
3:J:1163:VAL:CG1	3:J:1164:SER:N	2.77	0.48
3:J:397:ALA:O	3:J:401:VAL:HG23	2.13	0.48
3:J:525:MET:HE2	3:J:527:LEU:HD21	1.95	0.48
2:O:811:ASN:HB2	2:O:1099:ASN:HB2	1.95	0.48
2:O:15:PHE:CE2	2:O:1182:ILE:HD13	2.48	0.48
2:O:26:TYR:HE2	2:O:28:LEU:HB2	1.79	0.48
2:O:717:VAL:CG1	2:O:718:ALA:N	2.77	0.48
2:O:708:VAL:CG1	2:O:794:LEU:HD22	2.34	0.48
2:O:915:ASP:C	2:O:915:ASP:OD1	2.52	0.48
3:P:865:HIS:H	3:P:868:TRP:HD1	1.62	0.48
5:R:279:ARG:HH21	5:R:347:ILE:CD1	2.26	0.48
2:O:897:PRO:CB	5:R:563:PHE:O	2.59	0.48
5:L:386:LEU:HD22	6:4:41:DT:C5	2.49	0.48
1:A:179:PRO:O	1:A:208:ASN:ND2	2.46	0.48
3:D:1044:GLN:O	3:D:1067:ARG:HG2	2.14	0.48
3:D:116:PHE:CE1	3:D:1333:THR:HG22	2.48	0.48
3:D:250:ARG:HB3	3:D:265:LEU:HD12	1.95	0.48
3:D:352:ARG:O	3:D:372:MET:CE	2.62	0.48
3:D:474:LEU:HD13	4:E:28:ARG:HG2	1.96	0.48
2:C:373:GLY:CA	5:F:91:ILE:HA	2.43	0.48
1:H:106:GLY:HA2	1:H:136:GLU:HA	1.96	0.48
1:H:190:ALA:N	1:H:199:ASP:HA	2.21	0.48
2:I:32:LEU:HD23	2:I:130:MET:CE	2.44	0.48
3:J:1140:ARG:HH21	3:J:1236:GLU:HG2	1.79	0.48
3:J:1226:VAL:HA	3:J:1229:VAL:CG1	2.43	0.48
3:J:1355:ARG:CZ	3:J:1369:ARG:NH1	2.76	0.48
3:J:350:SER:HB3	3:J:469:HIS:ND1	2.29	0.48
3:J:899:TYR:CZ	3:J:915:ILE:HG21	2.48	0.48
3:J:984:LEU:N	3:J:993:GLU:O	2.47	0.48
5:L:110:LEU:H	5:L:110:LEU:HD12	1.79	0.48
5:L:441:ARG:HG3	5:L:442:SER:N	2.29	0.48
2:O:104:ILE:HD12	2:O:116:ASP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:920:VAL:CG1	2:O:921:PRO:HD2	2.43	0.48
3:P:768:ASN:OD1	3:P:770:LEU:N	2.47	0.48
5:R:452:ILE:HG21	5:R:460:ILE:HD11	1.96	0.48
2:C:279:LYS:HE3	5:L:474:MET:HG2	1.94	0.48
2:C:496:LYS:HB2	2:C:497:PRO:HD3	1.95	0.48
2:C:634:VAL:HG12	2:C:635:THR:H	1.77	0.48
2:C:871:VAL:HG21	2:C:883:LEU:HA	1.94	0.48
2:C:933:VAL:HG11	2:C:945:ALA:HB2	1.96	0.48
2:C:1257:GLN:NE2	3:D:345:LYS:HB3	2.29	0.48
3:D:746:LEU:HD23	3:D:758:PRO:HA	1.96	0.48
5:F:110:LEU:H	5:F:110:LEU:HD12	1.77	0.48
1:G:56:VAL:HG21	1:G:85:LEU:HB3	1.96	0.48
1:H:223:ILE:HG22	1:H:227:GLN:HE21	1.79	0.48
2:I:167:SER:HA	3:J:1064:SER:HB3	1.96	0.48
2:I:61:SER:HA	2:I:479:LEU:HD13	1.95	0.48
3:J:139:LEU:HD21	3:J:185:ILE:HD11	1.90	0.48
5:L:470:MET:HG2	5:L:486:ARG:HH11	1.79	0.48
1:M:156:SER:O	1:M:159:ILE:HG22	2.13	0.48
2:O:934:PHE:HB2	2:O:1049:ILE:HB	1.96	0.48
2:O:13:LYS:HE3	2:O:1149:TYR:O	2.14	0.48
2:O:232:ILE:O	2:O:331:LYS:HB3	2.13	0.48
3:P:130:MET:HG2	3:P:135:ILE:HG13	1.90	0.48
2:O:1294:LYS:CD	3:P:347:VAL:HG11	2.30	0.48
3:P:352:ARG:HH21	3:P:465:GLN:HB2	1.78	0.48
3:P:406:ALA:HA	3:P:409:TRP:CD1	2.48	0.48
3:P:56:LEU:O	3:P:250:ARG:NH2	2.37	0.48
3:P:742:GLY:O	3:P:762:ASN:HB3	2.14	0.48
2:O:550:VAL:HG13	3:P:780:ARG:NH2	2.29	0.48
3:P:978:ARG:HD2	3:P:1212:ASP:OD2	2.14	0.48
7:8:51:DG:C8	7:8:52:DT:H71	2.48	0.48
1:A:133:LEU:HD21	1:A:140:ILE:HG22	1.96	0.48
1:B:82:LEU:CD2	1:B:173:VAL:HG21	2.42	0.48
1:A:150:ARG:CZ	1:B:7:GLU:O	2.62	0.48
2:C:656:SER:O	2:C:659:GLN:HG2	2.14	0.48
2:C:743:PRO:HA	2:C:974:ARG:NH1	2.26	0.48
3:D:481:ARG:HG2	4:E:6:VAL:HG21	1.95	0.48
5:F:134:VAL:HG13	5:F:140:ALA:HB1	1.96	0.48
1:H:43:LEU:O	1:H:47:LEU:HD12	2.14	0.48
2:I:56:VAL:HG12	2:I:59:ILE:HG12	1.94	0.48
2:I:592:ARG:NH1	2:I:653:MET:HE1	2.29	0.48
3:J:976:THR:HG21	3:J:1030:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1284:ALA:HA	3:J:1357:ILE:HD13	1.96	0.48
1:M:49:SER:HB3	1:N:33:ARG:HH12	1.78	0.48
2:O:1186:VAL:O	2:O:1187:PHE:HB2	2.13	0.48
2:O:1293:VAL:O	2:O:1301:ARG:CB	2.62	0.48
2:O:56:VAL:HG21	2:O:468:LEU:HB3	1.96	0.48
2:O:618:GLN:O	2:O:621:SER:OG	2.21	0.48
2:O:667:LEU:HA	2:O:667:LEU:HD23	1.61	0.48
3:P:1256:ILE:HG22	3:P:1260:MET:CE	2.44	0.48
2:O:1239:VAL:HG23	3:P:354:VAL:CG2	2.44	0.48
3:P:536:LEU:HB3	3:P:542:ALA:HB3	1.96	0.48
6:4:30:DG:C8	6:4:31:DT:H72	2.49	0.48
1:A:13:LEU:CA	1:A:28:LEU:HD21	2.38	0.48
2:C:92:TYR:CE2	2:C:129:LEU:HB2	2.48	0.48
2:C:759:SER:OG	2:C:763:THR:N	2.47	0.48
2:C:748:ILE:HG13	2:C:970:GLY:HA3	1.95	0.48
3:D:1263:LYS:HB2	3:D:1307:LEU:HD11	1.95	0.48
5:F:95:THR:O	5:F:97:PRO:HD3	2.14	0.48
2:I:336:LEU:HD23	2:I:336:LEU:N	2.29	0.48
2:I:698:PRO:HG3	2:I:1231:TYR:CE2	2.48	0.48
3:J:131:PRO:O	3:J:135:ILE:CD1	2.62	0.48
3:J:107:LEU:HD11	3:J:242:LEU:HB2	1.96	0.48
3:J:544:LEU:HA	3:J:574:VAL:HB	1.96	0.48
5:L:401:PHE:O	5:L:405:ILE:CD1	2.61	0.48
5:L:592:ALA:HA	5:L:595:LEU:HD12	1.95	0.48
1:M:69:SER:O	1:M:78:ILE:CG1	2.62	0.48
2:O:819:SER:OG	2:O:821:ARG:HB2	2.14	0.48
3:P:137:ARG:NH1	5:R:88:GLU:O	2.45	0.48
2:O:1269:ARG:HA	3:P:346:ARG:HA	1.96	0.48
3:P:395:LYS:HE2	3:P:399:LYS:NZ	2.28	0.48
3:P:398:LYS:HZ3	5:R:532:LEU:CB	2.27	0.48
3:P:823:THR:HG22	3:P:879:ALA:HB2	1.95	0.48
5:R:460:ILE:CA	5:R:463:LEU:HG	2.43	0.48
5:F:429:THR:OG1	6:1:39:DA:H8	1.98	0.47
1:A:109:PRO:HA	1:A:132:HIS:CD2	2.48	0.47
1:A:43:LEU:O	1:A:47:LEU:CG	2.62	0.47
2:C:1312:ASN:O	2:C:1313:HIS:HB2	2.14	0.47
2:C:639:LYS:HG2	2:C:639:LYS:O	2.14	0.47
2:C:697:LYS:HB3	2:C:790:ASP:OD2	2.14	0.47
3:D:973:LEU:O	3:D:1003:LEU:HB2	2.14	0.47
3:D:217:LEU:O	3:D:221:ILE:HG13	2.14	0.47
3:D:318:GLY:CA	3:D:322:ARG:O	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1005:GLU:OE1	2:I:1007:LYS:HG2	2.14	0.47
2:I:724:VAL:HG11	2:I:727:VAL:HG22	1.94	0.47
2:I:720:ARG:HD3	2:I:736:VAL:HG21	1.96	0.47
2:I:805:MET:HE2	2:I:806:PRO:CD	2.36	0.47
3:J:1280:VAL:CG1	3:J:1281:GLU:H	2.24	0.47
3:J:474:LEU:HD12	4:K:28:ARG:CD	2.43	0.47
4:K:41:GLU:HG3	4:K:49:ILE:CD1	2.44	0.47
4:K:44:ASP:O	4:K:49:ILE:HD11	2.14	0.47
2:O:1135:GLN:O	2:O:1136:GLN:HB2	2.14	0.47
2:O:263:VAL:HG12	2:O:263:VAL:O	2.13	0.47
2:O:35:PHE:CD2	2:O:130:MET:HB3	2.49	0.47
2:O:80:PHE:HB2	2:O:85:CYS:SG	2.54	0.47
3:P:1067:ARG:NH1	3:P:1074:LEU:O	2.47	0.47
3:P:114:ILE:HG12	3:P:114:ILE:O	2.13	0.47
3:P:190:LYS:O	3:P:190:LYS:HG3	2.12	0.47
3:P:968:ASN:CB	3:P:1117:SER:O	2.62	0.47
6:1:46:DG:C8	6:1:46:DG:H5''	2.49	0.47
6:4:34:DG:H2''	6:4:35:DC:C5	2.49	0.47
2:O:202:ARG:NH2	7:8:7:DC:H5''	2.29	0.47
1:A:135:ASP:O	1:A:138:ALA:HB3	2.13	0.47
2:C:1117:LEU:CD1	2:C:1182:ILE:HD13	2.43	0.47
2:C:239:MET:SD	2:C:241:LEU:HD13	2.54	0.47
2:C:559:CYS:SG	2:C:561:ILE:CG1	3.02	0.47
3:D:30:ILE:HG23	3:D:243:PRO:HB3	1.95	0.47
3:D:269:TYR:O	3:D:272:VAL:HB	2.13	0.47
3:D:318:GLY:HA2	3:D:324:LEU:HD21	1.96	0.47
3:D:749:LYS:CB	3:D:750:PRO:CD	2.56	0.47
3:D:833:GLU:HB2	3:D:1242:ARG:NH1	2.28	0.47
5:F:414:LYS:HD3	5:F:434:TRP:CE3	2.49	0.47
5:F:433:TRP:CZ3	5:F:436:ARG:HD3	2.48	0.47
1:G:149:GLY:HA3	1:G:177:TYR:CE2	2.49	0.47
1:G:180:VAL:HA	1:G:207:THR:HG22	1.95	0.47
1:H:57:THR:O	1:H:172:LEU:HD12	2.14	0.47
2:I:1186:VAL:O	2:I:1187:PHE:HB2	2.14	0.47
2:I:796:LEU:C	2:I:1233:LEU:HD21	2.34	0.47
2:I:1273:MET:HG3	7:5:14:DC:C5'	2.43	0.47
2:I:1302:THR:HG23	2:I:1303:LYS:N	2.29	0.47
1:G:68:TYR:CD2	2:I:929:ILE:HD11	2.49	0.47
3:J:425:ARG:HH12	3:J:427:PRO:HD2	1.78	0.47
3:J:812:ASP:OD1	3:J:812:ASP:N	2.47	0.47
5:L:159:SER:HA	5:L:163:THR:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:123:ILE:HG23	5:L:376:LYS:HE3	1.96	0.47
1:N:61:ILE:HG12	1:N:142:MET:HE2	1.96	0.47
2:O:135:THR:HG22	2:O:144:VAL:HG22	1.95	0.47
3:P:1174:ARG:HG3	3:P:1189:MET:HA	1.96	0.47
3:P:1155:ILE:H	3:P:1211:SER:HB2	1.80	0.47
3:P:1355:ARG:O	3:P:1357:ILE:HD12	2.13	0.47
3:P:367:GLY:O	3:P:447:ILE:HG22	2.13	0.47
6:7:29:DC:H2'	6:7:30:DG:C8	2.49	0.47
7:8:51:DG:C8	7:8:52:DT:C7	2.97	0.47
1:A:190:ALA:HB2	1:A:200:LYS:N	2.29	0.47
1:A:219:ARG:O	1:A:222:THR:HB	2.14	0.47
1:B:88:LEU:HD12	1:B:89:ALA:H	1.80	0.47
3:D:1077:ALA:HB1	3:D:1098:GLN:HG2	1.94	0.47
3:D:407:VAL:O	3:D:411:ILE:HG13	2.15	0.47
3:D:424:ASN:C	3:D:466:MET:HE2	2.34	0.47
3:D:485:MET:O	3:D:489:ASN:ND2	2.46	0.47
3:D:798:ARG:O	3:D:801:VAL:HB	2.14	0.47
5:F:147:GLN:HG2	5:F:161:LEU:HD21	1.96	0.47
5:F:388:ILE:CG2	5:F:389:SER:N	2.77	0.47
5:F:452:ILE:HG22	5:F:453:PRO:O	2.14	0.47
1:G:120:ASP:N	1:G:120:ASP:OD1	2.45	0.47
2:I:219:GLN:O	2:I:223:LEU:HG	2.15	0.47
2:I:511:LEU:HA	2:I:511:LEU:HD23	1.51	0.47
2:I:720:ARG:HD2	2:I:736:VAL:HG21	1.95	0.47
2:I:873:ILE:HG13	2:I:944:ARG:NH2	2.20	0.47
3:J:871:LEU:O	3:J:875:ASN:ND2	2.48	0.47
1:M:41:ASN:HD21	2:O:1218:GLY:CA	2.23	0.47
2:O:1185:PRO:HD2	2:O:1189:GLY:HA2	1.97	0.47
1:G:191:ARG:NH2	3:P:1375:ALA:HB3	2.29	0.47
3:P:886:VAL:HG13	3:P:1258:ARG:HA	1.96	0.47
5:R:389:SER:HA	5:R:392:LYS:HD2	1.96	0.47
5:R:588:ARG:O	5:R:591:GLU:HB3	2.14	0.47
7:5:12:DG:O3'	7:5:13:DA:P	2.72	0.47
2:C:1098:LEU:CD2	2:C:1099:ASN:N	2.77	0.47
2:C:309:LEU:C	2:C:310:ILE:HG13	2.34	0.47
2:C:538:LEU:HD23	2:C:538:LEU:N	2.29	0.47
2:C:727:VAL:HG21	2:C:773:LEU:N	2.28	0.47
2:C:761:GLN:O	2:C:762:ASN:CB	2.63	0.47
2:C:92:TYR:HB3	2:C:137:VAL:HB	1.96	0.47
3:D:435:GLN:HB2	3:D:457:TYR:OH	2.14	0.47
1:G:59:VAL:HG22	1:G:144:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1330:ILE:HD13	2:I:1337:ILE:HD13	1.95	0.47
2:I:196:VAL:HG23	2:I:206:ALA:CA	2.33	0.47
2:I:896:THR:OG1	2:I:899:GLU:HG3	2.14	0.47
3:J:146:VAL:HA	3:J:178:ALA:HB2	1.96	0.47
2:I:1272:GLU:OE1	3:J:339:ARG:HG2	2.15	0.47
3:J:625:MET:HB3	3:J:625:MET:HE2	1.35	0.47
3:J:723:TYR:CE1	3:J:727:ASP:HB2	2.50	0.47
3:J:919:ALA:HB2	3:J:1255:VAL:HG21	1.96	0.47
1:M:232:VAL:HG12	1:N:218:ARG:HA	1.87	0.47
2:O:452:ARG:NH2	2:O:458:GLU:CD	2.67	0.47
2:O:145:ILE:HD11	2:O:506:PHE:CD1	2.49	0.47
2:O:560:PRO:HG2	2:O:561:ILE:HG12	1.96	0.47
2:O:1337:ILE:HA	3:P:21:LYS:O	2.14	0.47
3:P:701:LEU:HG	3:P:723:TYR:HB2	1.95	0.47
3:P:749:LYS:CG	3:P:750:PRO:HD2	2.44	0.47
3:P:849:LEU:HD13	3:P:857:LEU:HD23	1.94	0.47
5:R:113:ARG:HD3	5:R:426:LYS:HZ2	1.78	0.47
5:R:440:THR:O	5:R:443:ILE:HG22	2.13	0.47
5:R:554:ARG:O	5:R:558:VAL:HG23	2.14	0.47
1:A:90:VAL:HG11	1:A:146:VAL:HG11	1.96	0.47
2:C:130:MET:HG2	2:C:131:THR:N	2.28	0.47
2:C:408:SER:C	2:C:409:LEU:HD23	2.35	0.47
2:C:122:VAL:HG21	2:C:493:ILE:HD12	1.96	0.47
2:C:785:ASP:HB3	2:C:789:THR:OG1	2.14	0.47
2:C:797:GLY:HA3	2:C:1233:LEU:HD23	1.97	0.47
5:F:332:ASP:OD1	5:F:332:ASP:N	2.47	0.47
5:F:583:THR:HG23	5:F:586:ARG:CB	2.25	0.47
1:G:38:THR:CG2	1:H:42:ALA:HA	2.44	0.47
3:J:363:LEU:HD23	3:J:618:VAL:HG12	1.93	0.47
3:J:649:LYS:HG3	3:J:653:ILE:HG13	1.96	0.47
3:J:661:VAL:CG1	3:J:665:GLN:NE2	2.77	0.47
3:J:515:ARG:NH2	3:J:719:PHE:CD1	2.82	0.47
5:L:287:ILE:HD11	5:L:344:LEU:HD13	1.97	0.47
5:L:298:PRO:HB2	5:L:301:ASN:ND2	2.29	0.47
5:L:368:GLY:O	5:L:371:LYS:HB2	2.15	0.47
5:L:548:LEU:HD21	5:L:560:ARG:HG3	1.97	0.47
2:O:502:VAL:O	2:O:506:PHE:HD2	1.98	0.47
2:O:634:VAL:CG1	2:O:635:THR:H	2.27	0.47
3:P:264:ASP:HB3	3:P:324:LEU:HD23	1.97	0.47
3:P:33:TRP:HE3	3:P:102:MET:HE1	1.78	0.47
3:P:369:PRO:HB3	3:P:444:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:668:PHE:HD2	3:P:673:VAL:HB	1.79	0.47
3:P:839:VAL:CG1	3:P:864:LEU:CD1	2.93	0.47
5:R:387:VAL:CG2	5:R:435:ILE:HD13	2.44	0.47
5:R:557:LYS:HE2	5:R:560:ARG:NH1	2.29	0.47
6:1:46:DG:H5'	6:1:46:DG:H8	1.80	0.47
6:7:47:DC:H4'	6:7:47:DC:OP1	2.14	0.47
7:8:23:DT:C2'	7:8:24:DT:OP1	2.62	0.47
1:B:60:GLU:O	1:B:142:MET:HB2	2.15	0.47
3:D:1027:VAL:HG23	3:D:1124:ILE:HD11	1.97	0.47
5:F:245:ALA:O	5:F:249:ILE:HG13	2.15	0.47
5:F:476:ARG:HG3	5:F:477:GLU:N	2.29	0.47
1:G:16:ILE:HG23	1:G:26:VAL:HG13	1.95	0.47
2:I:960:LEU:CB	2:I:1025:PHE:HE1	2.15	0.47
2:I:1290:MET:HA	2:I:1294:LYS:CG	2.44	0.47
2:I:878:THR:HA	2:I:925:SER:HB2	1.96	0.47
3:J:1162:ILE:CD1	3:J:1180:VAL:CG1	2.87	0.47
2:O:337:PHE:HE2	2:O:343:HIS:CD2	2.32	0.47
2:O:70:TYR:HA	2:O:100:LEU:CD2	2.38	0.47
3:P:101:ARG:O	3:P:246:PRO:HG3	2.14	0.47
3:P:311:ARG:NH1	7:8:10:DC:OP1	2.48	0.47
3:P:422:LEU:C	3:P:423:LEU:HD23	2.34	0.47
3:P:452:LEU:HD21	3:P:625:MET:HG3	1.96	0.47
5:F:464:ASN:CG	7:2:25:DA:H62	2.17	0.47
1:A:107:ILE:HG12	1:A:136:GLU:HA	1.95	0.47
1:A:48:LEU:HD11	1:A:183:ILE:HG23	1.81	0.47
1:A:56:VAL:CG2	1:A:85:LEU:O	2.61	0.47
1:A:92:VAL:CG1	1:A:95:LYS:O	2.58	0.47
2:C:1312:ASN:CG	2:C:1314:GLN:H	2.18	0.47
2:C:1334:GLY:O	3:D:25:ALA:HB3	2.15	0.47
2:C:528:ARG:CD	2:C:663:VAL:CG2	2.86	0.47
2:C:729:ALA:O	2:C:730:SER:HB3	2.15	0.47
3:D:261:ALA:HB1	5:F:507:MET:CA	2.42	0.47
5:F:407:GLU:HG2	5:F:442:SER:OG	2.15	0.47
1:G:190:ALA:N	1:G:199:ASP:HA	2.26	0.47
1:H:64:VAL:HG11	1:H:78:ILE:CD1	2.45	0.47
2:I:208:ILE:HD11	2:I:365:GLU:HB3	1.97	0.47
2:I:220:ILE:O	2:I:224:PHE:HD2	1.97	0.47
2:I:48:GLY:HA2	2:I:461:GLU:HG3	1.97	0.47
2:I:724:VAL:HG23	2:I:775:GLU:O	2.14	0.47
3:J:189:LEU:HB3	3:J:234:PRO:HB2	1.95	0.47
3:J:38:VAL:HG21	3:J:244:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1104:PRO:CG	3:J:725:MET:CE	2.93	0.47
4:K:42:GLU:HB2	4:K:52:ARG:HH12	1.79	0.47
5:L:237:ALA:O	5:L:238:LYS:CB	2.63	0.47
1:M:9:LEU:CD2	1:M:198:LEU:HD21	2.44	0.47
2:O:550:VAL:HG22	3:P:780:ARG:CZ	2.43	0.47
3:P:952:VAL:HG23	3:P:1017:VAL:HG22	1.95	0.47
3:P:1270:GLY:HA2	3:P:1298:VAL:O	2.14	0.47
3:P:499:ILE:HG22	3:P:500:ILE:N	2.29	0.47
3:P:783:LEU:CD1	3:P:936:HIS:CB	2.93	0.47
4:Q:25:ARG:NH2	4:Q:65:ASP:OD1	2.48	0.47
5:R:102:MET:HE3	6:7:42:DG:N2	2.11	0.47
5:R:460:ILE:HA	5:R:463:LEU:HD11	1.96	0.47
1:A:184:ALA:HB2	2:C:1091:GLY:HA2	1.97	0.47
2:C:371:ARG:HB3	5:F:99:ARG:HH12	1.80	0.47
2:C:475:VAL:HG13	2:C:492:MET:CE	2.45	0.47
2:C:557:ARG:HB3	2:C:587:LEU:CD1	2.37	0.47
2:C:853:ASP:C	2:C:854:ILE:HG13	2.34	0.47
3:D:403:ARG:O	3:D:404:GLU:HB2	2.14	0.47
3:D:749:LYS:CG	3:D:755:ILE:CG1	2.86	0.47
1:G:75:GLN:HE22	2:I:727:VAL:HB	1.80	0.47
2:I:1292:THR:CG2	2:I:1293:VAL:H	2.03	0.47
2:I:207:THR:HA	2:I:210:LEU:HD12	1.96	0.47
3:J:107:LEU:HD11	3:J:242:LEU:CB	2.43	0.47
3:J:288:PRO:O	3:J:292:VAL:HG23	2.15	0.47
2:I:1269:ARG:NH1	3:J:339:ARG:O	2.43	0.47
3:J:521:LYS:HB3	3:J:543:SER:H	1.77	0.47
5:L:426:LYS:HE2	6:4:40:DA:OP2	2.15	0.47
2:O:488:MET:CB	2:O:489:PRO:HD2	2.40	0.47
3:P:146:VAL:HG11	3:P:154:LEU:HB3	1.97	0.47
6:1:18:DA:C2	6:1:19:DT:C2	3.02	0.47
6:1:43:DT:C3'	6:1:44:DG:C5'	2.92	0.47
1:B:125:LYS:HD3	1:B:128:HIS:HB2	1.96	0.47
2:C:1112:ILE:HG23	2:C:1116:HIS:NE2	2.29	0.47
2:C:110:PRO:HB2	2:C:111:GLU:H	1.57	0.47
2:C:1127:LYS:HE3	2:C:1202:GLY:O	2.15	0.47
2:C:16:GLY:O	2:C:1156:ARG:CB	2.63	0.47
2:C:146:VAL:HG23	2:C:511:LEU:O	2.15	0.47
2:C:661:VAL:HG11	2:C:665:ALA:CB	2.41	0.47
2:C:836:LEU:HD23	2:C:836:LEU:HA	1.74	0.47
2:C:996:ARG:O	2:C:997:TRP:CD1	2.62	0.47
3:D:115:TRP:CE3	3:D:1333:THR:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1256:ILE:HG22	3:D:1260:MET:HE2	1.97	0.47
3:D:349:TYR:O	3:D:470:VAL:HG23	2.15	0.47
5:F:395:THR:HA	5:F:404:LEU:HD11	1.95	0.47
3:J:1040:MET:CE	3:J:1046:ILE:HG21	2.45	0.47
3:J:1163:VAL:HG12	3:J:1175:LEU:CD1	2.44	0.47
1:M:192:VAL:HG12	1:M:193:GLU:N	2.29	0.47
1:M:42:ALA:CA	1:N:38:THR:HG23	2.37	0.47
2:O:21:VAL:HG21	2:O:592:ARG:HH11	1.79	0.47
2:O:237:LEU:HB3	2:O:287:VAL:HG22	1.97	0.47
2:O:871:VAL:HG23	2:O:883:LEU:O	2.15	0.47
7:8:17:DG:H2'	7:8:18:DT:O4'	2.15	0.47
2:C:1268:GLN:NE2	3:D:351:GLY:C	2.68	0.47
2:C:13:LYS:HE2	2:C:15:PHE:CE2	2.49	0.47
2:C:671:LEU:HA	2:C:671:LEU:HD12	1.63	0.47
3:D:401:VAL:O	3:D:404:GLU:HG3	2.15	0.47
3:D:497:GLU:CB	3:D:498:PRO:CD	2.91	0.47
2:I:112:GLY:O	2:I:114:VAL:N	2.44	0.47
2:I:1246:ARG:CZ	2:I:1249:GLY:HA3	2.45	0.47
2:I:806:PRO:HD3	3:J:637:ALA:O	2.15	0.47
2:I:883:LEU:HD21	2:I:920:VAL:HG23	1.97	0.47
1:M:162:GLU:OE1	1:M:166:ARG:NH1	2.48	0.47
2:O:298:ALA:HB2	2:O:336:LEU:HD21	1.96	0.47
2:O:757:THR:CG2	2:O:758:ARG:N	2.77	0.47
3:P:1145:PHE:HB3	3:P:1309:ILE:CD1	2.38	0.47
3:P:130:MET:CG	3:P:135:ILE:CG1	2.75	0.47
3:P:369:PRO:HG2	3:P:372:MET:HE3	1.96	0.47
3:P:442:ILE:HD13	3:P:448:GLN:NE2	2.30	0.47
3:P:75:TYR:HD2	3:P:85:CYS:SG	2.38	0.47
5:R:507:MET:HE2	5:R:507:MET:HB2	1.62	0.47
3:D:450:HIS:HD2	3:D:452:LEU:H	1.63	0.47
3:D:805:GLN:HG3	3:D:806:ASP:N	2.30	0.47
5:F:155:GLU:HG3	5:F:156:ALA:N	2.29	0.47
5:F:324:LYS:O	5:F:326:TRP:N	2.48	0.47
1:G:31:LEU:CD1	1:G:201:LEU:CB	2.92	0.47
2:I:1025:PHE:O	2:I:1028:LYS:HB2	2.15	0.47
2:I:31:GLN:NE2	2:I:145:ILE:O	2.47	0.47
2:I:160:ASP:HB3	2:I:163:LYS:CB	2.45	0.47
2:I:335:THR:CG2	2:I:336:LEU:N	2.78	0.47
2:I:757:THR:HG22	2:I:758:ARG:N	2.30	0.47
3:J:115:TRP:O	3:J:119:SER:HB3	2.15	0.47
3:J:368:LEU:HD21	3:J:376:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:801:VAL:HG23	3:J:920:ALA:HB1	1.95	0.47
5:L:355:ILE:HA	5:L:358:VAL:HB	1.97	0.47
2:O:26:TYR:CE2	2:O:28:LEU:HB2	2.49	0.47
2:O:428:VAL:CG1	2:O:429:MET:CG	2.93	0.47
2:O:851:THR:HG22	2:O:852:ALA:H	1.79	0.47
3:P:1169:THR:HG22	3:P:1169:THR:O	2.15	0.47
3:P:332:LYS:NZ	3:P:1329:THR:OG1	2.47	0.47
3:P:242:LEU:HD12	3:P:243:PRO:N	2.30	0.47
3:P:310:GLY:HA2	3:P:315:ALA:HB2	1.98	0.47
3:P:591:ILE:CG2	3:P:604:MET:HG2	2.45	0.47
3:P:808:VAL:CG1	3:P:809:VAL:N	2.77	0.47
3:P:927:GLY:O	3:P:1134:ILE:HD12	2.13	0.47
6:7:48:DA:H3'	6:7:49:DG:H5'	1.97	0.46
2:C:131:THR:HG23	2:C:135:THR:O	2.14	0.46
2:C:700:VAL:HG21	2:C:1114:GLU:HG3	1.98	0.46
3:D:424:ASN:C	3:D:466:MET:CE	2.84	0.46
3:D:366:CYS:SG	3:D:437:PHE:HB2	2.55	0.46
3:D:495:ASN:ND2	3:D:1247:LYS:O	2.48	0.46
1:G:44:ARG:HG3	1:G:183:ILE:HG12	1.96	0.46
2:I:1306:LYS:NZ	5:L:538:GLU:HG3	2.30	0.46
2:I:591:TYR:HE1	2:I:659:GLN:HE22	1.63	0.46
2:I:811:ASN:O	2:I:1099:ASN:HB2	2.14	0.46
3:J:1171:GLY:O	3:J:1192:LYS:HG3	2.14	0.46
3:J:131:PRO:O	3:J:135:ILE:HD11	2.15	0.46
3:J:492:SER:CB	3:J:495:ASN:OD1	2.63	0.46
1:N:47:LEU:HD13	1:N:205:MET:CE	2.45	0.46
2:O:1184:THR:CG2	2:O:1184:THR:O	2.62	0.46
2:O:255:ILE:HG23	2:O:285:ILE:CG2	2.44	0.46
2:O:90:VAL:CG1	2:O:91:THR:H	2.24	0.46
3:P:1229:VAL:HG13	3:P:1230:THR:H	1.80	0.46
3:P:589:TYR:CD2	3:P:593:ASN:ND2	2.83	0.46
3:P:722:ILE:O	3:P:725:MET:HB2	2.15	0.46
2:C:631:GLU:HG3	2:C:632:ASP:N	2.31	0.46
2:C:661:VAL:HG11	2:C:665:ALA:HB1	1.97	0.46
2:C:708:VAL:HG11	2:C:794:LEU:HD22	1.97	0.46
2:C:805:MET:O	2:C:811:ASN:ND2	2.48	0.46
2:C:835:GLU:O	2:C:836:LEU:HD23	2.15	0.46
2:C:80:PHE:CB	2:C:85:CYS:SG	3.03	0.46
2:C:972:PHE:CE2	2:C:994:ARG:HB3	2.49	0.46
3:D:343:LEU:HD11	3:D:1324:SER:HB2	1.97	0.46
3:D:78:LEU:O	3:D:81:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:977:SER:HG	3:D:980:THR:HG1	1.64	0.46
4:E:64:LEU:HA	4:E:64:LEU:HD23	1.68	0.46
5:F:110:LEU:HD23	5:F:382:ALA:O	2.15	0.46
5:F:353:LEU:CB	5:F:358:VAL:CG2	2.92	0.46
1:H:31:LEU:CD1	1:H:39:LEU:CD1	2.68	0.46
1:H:52:PRO:HA	1:H:150:ARG:HB3	1.97	0.46
2:I:149:LEU:HA	2:I:453:ILE:HD13	1.96	0.46
3:J:1238:GLN:O	3:J:1242:ARG:HG3	2.15	0.46
3:J:1284:ARG:HA	3:J:1287:ILE:CG1	2.45	0.46
3:J:1346:GLY:C	3:J:1349:GLU:HG3	2.36	0.46
3:J:337:ARG:HD3	3:J:341:ASN:ND2	2.30	0.46
1:N:193:GLU:O	1:N:194:GLN:HB2	2.16	0.46
2:O:1161:LEU:O	2:O:1163:THR:N	2.48	0.46
2:O:1225:VAL:HG13	2:O:1226:THR:N	2.29	0.46
2:O:758:ARG:HB2	2:O:833:ILE:CG2	2.45	0.46
3:P:258:GLY:HA3	5:R:499:LYS:HZ1	1.78	0.46
3:P:842:ARG:O	3:P:864:LEU:HG	2.16	0.46
5:R:166:VAL:HG12	5:R:168:PRO:CD	2.33	0.46
2:C:1061:GLN:CB	2:C:1062:PRO:CD	2.87	0.46
2:C:1225:VAL:HG13	2:C:1226:THR:N	2.31	0.46
2:C:472:GLU:HG2	2:C:473:ARG:N	2.30	0.46
2:C:513:GLN:CD	2:C:526:HIS:NE2	2.68	0.46
2:C:78:PRO:HB3	2:C:93:SER:O	2.16	0.46
3:D:385:LEU:HD23	3:D:390:LEU:HB2	1.98	0.46
3:D:513:MET:SD	3:D:631:TYR:CG	3.09	0.46
5:F:461:ASN:OD1	7:2:26:DT:H72	2.15	0.46
1:G:10:LYS:HE2	1:H:226:GLU:CG	2.45	0.46
1:G:173:VAL:CG1	1:G:174:ASP:N	2.78	0.46
2:I:1252:SER:HB2	2:I:1259:LEU:CD2	2.45	0.46
2:I:1273:MET:HG3	7:5:14:DC:C4'	2.44	0.46
2:I:519:ASN:ND2	2:I:521:LEU:HB3	2.30	0.46
3:J:975:ILE:HD11	3:J:1003:LEU:HD11	1.96	0.46
3:J:115:TRP:CZ2	3:J:1329:THR:CG2	2.80	0.46
2:I:1283:ALA:HB1	3:J:479:GLU:OE2	2.14	0.46
3:J:536:LEU:HA	3:J:536:LEU:HD23	1.71	0.46
3:J:747:MET:CE	3:J:774:ILE:HG22	2.46	0.46
3:J:809:VAL:CG2	3:J:915:ILE:CD1	2.88	0.46
2:O:1077:SER:HA	3:P:356:THR:HG22	1.95	0.46
2:O:1151:LEU:HD21	2:O:1198:LEU:HA	1.98	0.46
2:O:1305:TYR:CD2	5:R:531:PRO:CB	2.97	0.46
3:P:1206:ARG:HB3	3:P:1223:LEU:HD22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1336:ASN:O	3:P:22:ILE:HA	2.16	0.46
5:R:483:LEU:O	5:R:483:LEU:HD12	2.16	0.46
6:1:49:DG:H3'	6:1:49:DG:H8	1.81	0.46
5:L:401:PHE:CZ	6:4:44:DG:H1'	2.51	0.46
8:6:13:GTP:C2'	8:6:14:A:H5''	2.45	0.46
1:A:203:ILE:CG2	1:A:205:MET:HE2	2.46	0.46
2:C:1270:PHE:CE1	2:C:1274:GLU:HB3	2.50	0.46
2:C:1285:TYR:O	2:C:1289:GLU:HG3	2.15	0.46
2:C:550:VAL:CG2	3:D:777:HIS:HA	2.46	0.46
2:C:589:THR:CG2	2:C:591:TYR:CZ	2.98	0.46
3:D:1035:VAL:HG22	3:D:1121:LEU:HD21	1.97	0.46
3:D:1163:VAL:CG1	3:D:1164:SER:N	2.77	0.46
3:D:1320:ILE:HG13	3:D:1320:ILE:H	1.52	0.46
3:D:518:VAL:HG12	3:D:519:ASN:N	2.30	0.46
5:F:282:THR:HG23	5:F:285:ARG:NH2	2.30	0.46
5:F:315:TRP:CZ2	5:F:341:LEU:HD11	2.51	0.46
1:G:130:ILE:HG22	1:G:131:CYS:N	2.31	0.46
1:G:31:LEU:HD12	1:G:201:LEU:HB3	1.97	0.46
1:G:35:PHE:HA	1:G:38:THR:OG1	2.15	0.46
1:G:64:VAL:HG11	1:G:78:ILE:HD13	1.97	0.46
2:I:1289:GLU:O	2:I:1293:VAL:CG2	2.64	0.46
2:I:1323:PHE:CE2	3:J:1352:ILE:HG22	2.51	0.46
2:I:782:VAL:HG11	2:I:792:GLY:HA2	1.97	0.46
2:I:848:GLU:HG2	2:I:888:THR:HG23	1.97	0.46
3:J:997:VAL:HG11	3:J:1003:LEU:HD21	1.96	0.46
3:J:1044:GLN:O	3:J:1067:ARG:HG2	2.16	0.46
3:J:1082:ASP:HB3	3:J:1088:VAL:HG23	1.97	0.46
3:J:154:LEU:HD22	3:J:160:LEU:HD11	1.97	0.46
3:J:646:ILE:CD1	3:J:764:ARG:HD3	2.45	0.46
3:J:646:ILE:HG13	3:J:764:ARG:HD3	1.98	0.46
1:M:180:VAL:CA	1:M:207:THR:HG22	2.26	0.46
2:O:1339:LEU:HB3	3:P:17:PHE:CD2	2.50	0.46
2:O:857:VAL:HG21	2:O:882:ILE:CD1	2.45	0.46
3:P:1040:MET:CE	3:P:1046:ILE:HG21	2.45	0.46
3:P:1356:LEU:HD13	3:P:1365:TYR:CE1	2.50	0.46
3:P:1364:ALA:O	3:P:1367:GLN:CG	2.64	0.46
3:P:146:VAL:HG23	3:P:158:GLN:HB3	1.96	0.46
3:P:510:LEU:CD1	3:P:601:ILE:HD11	2.44	0.46
3:P:872:LEU:HD22	3:P:877:VAL:HB	1.97	0.46
3:P:959:LYS:HD2	3:P:985:ILE:HG13	1.97	0.46
5:R:466:ILE:HG22	5:R:470:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1273:MET:HG3	7:2:14:DC:H4'	1.96	0.46
2:C:1111:GLN:O	2:C:1115:THR:OG1	2.32	0.46
2:C:402:ARG:NE	2:C:416:GLY:HA3	2.31	0.46
2:C:52:ALA:HB1	2:C:468:LEU:HD12	1.98	0.46
3:D:297:ARG:NH1	5:F:100:MET:HB2	2.30	0.46
2:C:1313:HIS:HB2	3:D:474:LEU:HD11	1.98	0.46
3:D:960:LEU:CD2	3:D:982:LEU:HD12	2.46	0.46
3:D:991:THR:HG22	3:D:991:THR:O	2.15	0.46
5:F:166:VAL:HG12	5:F:167:ASP:N	2.31	0.46
2:I:209:ILE:HD13	2:I:425:ILE:HG21	1.97	0.46
2:I:742:TYR:HA	2:I:743:PRO:HD3	1.85	0.46
2:I:805:MET:HE2	2:I:806:PRO:O	2.16	0.46
3:J:34:SER:HG	3:J:104:HIS:CG	2.30	0.46
2:O:1296:ASP:HB2	2:O:1320:PRO:HA	1.97	0.46
3:P:139:LEU:CD2	3:P:185:ILE:HD11	2.46	0.46
3:P:156:ARG:HB3	3:P:157:GLN:HG3	1.97	0.46
2:O:1332:SER:OG	3:P:245:LEU:HD13	2.15	0.46
3:P:385:LEU:HD12	3:P:397:ALA:HB1	1.96	0.46
3:P:382:TYR:OH	3:P:398:LYS:HE3	2.15	0.46
3:P:840:LEU:HD11	3:P:866:GLU:HA	1.97	0.46
5:R:115:GLY:O	5:R:119:ILE:HD12	2.16	0.46
7:2:12:DG:O3'	7:2:13:DA:P	2.74	0.46
6:4:42:DG:H3'	6:4:42:DG:P	2.55	0.46
7:5:19:DA:OP1	7:5:19:DA:H4'	2.15	0.46
5:L:562:ARG:NH2	7:5:46:DG:OP1	2.48	0.46
2:C:1198:LEU:HD12	2:C:1201:LEU:HB2	1.97	0.46
2:C:239:MET:HG3	2:C:241:LEU:HB2	1.97	0.46
2:C:685:MET:HE1	2:C:1073:LYS:HD2	1.98	0.46
3:D:1049:GLN:HE22	3:D:1060:VAL:HG21	1.81	0.46
3:D:370:LYS:CE	3:D:443:GLU:HA	2.44	0.46
3:D:510:LEU:HD12	3:D:601:ILE:HD11	1.97	0.46
3:D:507:VAL:HG13	3:D:601:ILE:HD12	1.96	0.46
2:C:808:ASN:HA	3:D:629:PHE:HB3	1.97	0.46
3:D:512:TYR:CZ	3:D:635:SER:HB2	2.51	0.46
1:G:224:LEU:CD1	1:G:228:LEU:HD12	2.46	0.46
1:G:43:LEU:O	1:G:47:LEU:CD1	2.64	0.46
2:I:1289:GLU:CD	3:J:472:LEU:HB2	2.36	0.46
2:I:519:ASN:HD22	2:I:796:LEU:HD22	1.81	0.46
2:I:562:GLU:O	2:I:563:THR:HG22	2.15	0.46
2:I:821:ARG:O	2:I:825:GLU:CG	2.64	0.46
2:I:987:GLU:H	2:I:987:GLU:CD	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1103:GLY:O	3:J:1104:LYS:CB	2.63	0.46
3:J:1103:GLY:O	3:J:1104:LYS:HB2	2.14	0.46
3:J:1272:SER:CB	3:J:1274:PHE:CE2	2.97	0.46
3:J:38:VAL:CG2	3:J:244:VAL:HG21	2.46	0.46
3:J:79:LYS:HZ3	3:J:80:HIS:CE1	2.27	0.46
1:N:12:ARG:CZ	1:N:12:ARG:HB3	2.44	0.46
2:O:186:PHE:N	2:O:186:PHE:HD2	2.14	0.46
3:P:115:TRP:O	3:P:119:SER:HB3	2.15	0.46
3:P:1280:VAL:CG1	3:P:1281:GLU:N	2.78	0.46
3:P:1301:THR:HG22	3:P:1302:TYR:N	2.30	0.46
3:P:421:VAL:CG1	3:P:469:HIS:O	2.64	0.46
3:P:517:CYS:HB3	3:P:545:HIS:CB	2.44	0.46
3:P:800:LEU:O	3:P:803:VAL:HB	2.16	0.46
6:1:18:DA:C2	7:2:46:DG:C2	3.04	0.46
6:1:56:DG:C2	7:2:8:DG:N2	2.84	0.46
1:A:89:ALA:HB3	1:A:124:VAL:HB	1.97	0.46
1:B:66:HIS:CE1	1:B:69:SER:HB3	2.51	0.46
2:C:108:GLU:HG3	2:C:109:ALA:H	1.81	0.46
2:C:955:GLN:HA	2:C:955:GLN:OE1	2.15	0.46
3:D:253:VAL:HG21	5:F:523:ILE:HG21	1.97	0.46
3:D:259:ARG:CD	5:F:502:LYS:HG2	2.46	0.46
3:D:113:HIS:CE1	3:D:307:LEU:HD13	2.51	0.46
2:I:971:LEU:HD13	2:I:1017:GLN:HG2	1.98	0.46
2:I:436:ARG:O	2:I:436:ARG:NH1	2.42	0.46
2:I:596:ASP:N	2:I:596:ASP:OD1	2.49	0.46
2:I:886:LYS:HD3	2:I:916:SER:HB2	1.95	0.46
2:I:939:VAL:HG21	2:I:1047:LEU:HD22	1.98	0.46
3:J:213:LYS:HG2	3:J:216:LYS:CB	2.46	0.46
3:J:30:ILE:CD1	3:J:243:PRO:HD3	2.44	0.46
3:J:705:THR:OG1	3:J:716:GLN:HG3	2.15	0.46
2:I:570:GLY:HA2	3:J:780:ARG:HH11	1.80	0.46
5:L:497:VAL:HA	5:L:500:ILE:HD12	1.96	0.46
2:O:1049:ILE:HG22	2:O:1050:VAL:N	2.29	0.46
2:O:390:PHE:H	2:O:390:PHE:HD2	1.64	0.46
3:P:1075:ARG:CB	3:P:1192:LYS:HD3	2.45	0.46
2:O:1269:ARG:HH11	3:P:340:GLN:HG3	1.80	0.46
3:P:62:PHE:O	3:P:98:ARG:HG3	2.16	0.46
5:R:295:CYS:O	5:R:296:LYS:CB	2.40	0.46
5:R:460:ILE:HG13	5:R:460:ILE:H	1.54	0.46
7:2:17:DG:C2	8:3:13:GTP:C2	3.03	0.46
1:B:78:ILE:HA	1:B:81:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1116:HIS:CE1	2:C:1226:THR:CG2	2.95	0.46
2:C:12:ARG:HA	2:C:1181:PRO:O	2.16	0.46
2:C:298:ALA:CB	2:C:334:GLU:O	2.64	0.46
3:D:1031:VAL:HG23	3:D:1080:ILE:HG21	1.97	0.46
3:D:1061:VAL:O	3:D:1104:LYS:N	2.49	0.46
3:D:239:LEU:N	3:D:239:LEU:HD23	2.31	0.46
3:D:431:ARG:HG3	3:D:432:LEU:HD23	1.98	0.46
5:F:400:GLN:HG2	5:F:401:PHE:H	1.79	0.46
1:G:225:ALA:O	1:G:228:LEU:HB2	2.15	0.46
2:I:700:VAL:O	2:I:1069:ARG:NH2	2.48	0.46
2:I:228:VAL:HG22	2:I:245:ARG:NH1	2.30	0.46
2:I:836:LEU:HD13	2:I:918:LEU:HD11	1.97	0.46
3:J:1270:GLY:HA2	3:J:1298:VAL:O	2.16	0.46
3:J:905:ARG:HD2	4:K:16:ARG:HH11	1.81	0.46
1:M:35:PHE:N	1:M:35:PHE:CD2	2.84	0.46
2:O:298:ALA:O	2:O:313:ALA:HA	2.14	0.46
2:O:885:GLY:CA	2:O:917:SER:OG	2.53	0.46
3:P:1101:LEU:HD13	3:P:1107:VAL:CG2	2.46	0.46
3:P:377:PHE:C	3:P:379:PRO:HD2	2.37	0.46
3:P:483:LEU:HD21	4:Q:16:ARG:CB	2.42	0.46
3:P:452:LEU:HD11	3:P:625:MET:HB2	1.98	0.46
6:1:51:DC:H2"	6:1:52:DT:C6	2.51	0.46
1:A:52:PRO:O	1:A:211:ILE:HD11	2.16	0.46
1:A:31:LEU:HA	1:A:31:LEU:HD23	1.67	0.46
1:A:66:HIS:CE1	2:C:929:ILE:HG12	2.51	0.46
2:C:530:ILE:HD12	2:C:573:ASN:O	2.15	0.46
2:C:802:VAL:HG12	2:C:803:ALA:N	2.30	0.46
2:C:868:SER:HB2	2:C:944:ARG:HB2	1.96	0.46
3:D:518:VAL:CG1	3:D:519:ASN:N	2.78	0.46
3:D:646:ILE:HG13	3:D:764:ARG:HD2	1.97	0.46
3:D:819:GLY:N	3:D:881:LYS:HE2	2.31	0.46
5:F:399:LEU:HD23	5:F:399:LEU:HA	1.55	0.46
1:G:92:VAL:HG12	1:G:93:GLN:N	2.31	0.46
2:I:297:VAL:HG23	2:I:315:MET:H	1.81	0.46
2:I:337:PHE:O	2:I:338:THR:CG2	2.64	0.46
2:I:552:PRO:HA	3:J:773:PHE:CZ	2.51	0.46
2:I:873:ILE:H	2:I:873:ILE:HG13	1.52	0.46
3:J:1176:VAL:HG13	3:J:1187:GLU:HG2	1.97	0.46
3:J:238:ILE:HD13	3:J:238:ILE:N	2.30	0.46
3:J:44:ILE:HD13	3:J:252:LEU:HD21	1.97	0.46
3:J:381:ILE:O	3:J:385:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:849:LEU:HD23	3:J:850:LYS:N	2.30	0.46
5:L:470:MET:HG2	5:L:486:ARG:NH1	2.31	0.46
1:N:190:ALA:CB	1:N:200:LYS:HG3	2.45	0.46
2:O:375:PRO:HA	2:O:376:PRO:HD3	1.84	0.46
3:P:1347:LEU:HD21	3:P:1357:ILE:CG2	2.46	0.46
3:P:369:PRO:HB2	3:P:372:MET:HB2	1.97	0.46
3:P:395:LYS:HE2	3:P:399:LYS:HE2	1.97	0.46
3:P:395:LYS:HE2	3:P:399:LYS:HZ3	1.80	0.46
3:P:963:VAL:HG23	3:P:980:THR:OG1	2.16	0.46
5:R:353:LEU:CB	5:R:358:VAL:CG2	2.90	0.46
2:C:128:PRO:HD3	2:C:502:VAL:HG11	1.98	0.46
2:C:90:VAL:HG12	2:C:91:THR:N	2.31	0.46
3:D:1031:VAL:CG1	3:D:1091:PRO:HD3	2.44	0.46
3:D:1134:ILE:O	3:D:1134:ILE:CG2	2.64	0.46
3:D:1163:VAL:HG13	3:D:1177:ILE:HG12	1.97	0.46
3:D:1163:VAL:HG13	3:D:1177:ILE:HA	1.98	0.46
3:D:131:PRO:O	3:D:135:ILE:HG13	2.16	0.46
3:D:181:GLY:O	3:D:185:ILE:HG13	2.16	0.46
5:F:353:LEU:CB	5:F:358:VAL:HG22	2.46	0.46
2:C:1259:LEU:HD11	5:F:524:GLU:HB3	1.97	0.46
1:G:201:LEU:HD12	1:G:202:VAL:N	2.31	0.46
3:J:1155:ILE:HG22	3:J:1156:LEU:N	2.31	0.46
3:J:1178:THR:HA	3:J:1179:PRO:HD3	1.80	0.46
3:J:124:ILE:H	3:J:124:ILE:HG13	1.48	0.46
5:L:395:THR:HA	5:L:404:LEU:HD12	1.98	0.46
2:O:1283:ALA:HB1	2:O:1286:THR:HG1	1.81	0.46
2:O:241:LEU:HD11	2:O:246:LEU:HG	1.98	0.46
2:O:539:THR:CG2	2:O:540:ARG:N	2.65	0.46
3:P:875:ASN:O	3:P:876:SER:HB2	2.15	0.46
1:A:48:LEU:HD23	1:A:180:VAL:HB	1.96	0.45
2:C:1125:GLY:HA3	2:C:1179:GLY:HA2	1.98	0.45
3:D:109:SER:HB3	3:D:299:LEU:CD2	2.45	0.45
5:F:119:ILE:HA	5:F:122:ARG:HG3	1.98	0.45
5:F:329:LYS:HB3	5:F:329:LYS:HE2	1.70	0.45
5:F:407:GLU:CD	5:F:442:SER:HB3	2.37	0.45
5:F:429:THR:OG1	6:1:39:DA:H2'	2.15	0.45
1:G:67:GLU:O	1:G:78:ILE:HB	2.16	0.45
1:H:22:THR:O	1:H:207:THR:HG22	2.16	0.45
1:H:83:LEU:HD12	3:J:528:THR:HG23	1.97	0.45
2:O:1166:ASP:O	2:O:1169:VAL:HB	2.16	0.45
2:O:182:SER:O	2:O:395:TYR:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:186:PHE:N	2:O:186:PHE:CD2	2.83	0.45
2:O:178:PRO:HG2	2:O:395:TYR:CE1	2.50	0.45
2:O:634:VAL:CG1	2:O:635:THR:N	2.78	0.45
2:O:678:ARG:NH2	2:O:1106:ARG:HG3	2.31	0.45
2:O:898:GLU:OE1	5:R:565:ILE:HG23	2.16	0.45
3:P:1000:GLY:HA2	3:P:1028:ILE:HD12	1.98	0.45
3:P:1225:GLY:O	3:P:1229:VAL:HG12	2.16	0.45
3:P:1250:ASP:N	3:P:1250:ASP:OD1	2.49	0.45
3:P:1257:VAL:O	3:P:1261:LEU:HG	2.15	0.45
3:P:368:LEU:HD23	3:P:373:ALA:HB2	1.98	0.45
5:R:111:LEU:HD22	5:R:115:GLY:HA3	1.98	0.45
5:R:322:MET:O	5:R:323:ASN:HB2	2.15	0.45
2:C:1077:SER:HA	3:D:356:THR:HG22	1.95	0.45
2:C:123:TYR:OH	2:C:126:GLU:HG3	2.16	0.45
2:C:17:LYS:HG3	2:C:1188:ASP:OD1	2.16	0.45
2:C:27:LEU:CD2	2:C:528:ARG:NH2	2.78	0.45
3:D:603:LYS:O	3:D:607:THR:OG1	2.34	0.45
3:D:708:ASN:ND2	3:D:711:GLY:O	2.49	0.45
3:D:909:ILE:CD1	3:D:915:ILE:HG12	2.46	0.45
5:F:360:ASP:O	5:F:364:ARG:HB2	2.16	0.45
5:F:406:GLN:HA	5:F:406:GLN:OE1	2.16	0.45
2:I:1246:ARG:NH2	2:I:1249:GLY:CA	2.80	0.45
2:I:453:ILE:HD13	2:I:453:ILE:HA	1.66	0.45
2:I:920:VAL:HG12	2:I:921:PRO:O	2.16	0.45
2:I:1245:ALA:HA	3:J:351:GLY:HA2	1.98	0.45
3:J:480:ALA:HA	3:J:484:MET:CG	2.46	0.45
2:I:1104:PRO:CG	3:J:725:MET:SD	3.03	0.45
3:J:959:LYS:CD	3:J:985:ILE:HG13	2.40	0.45
5:L:548:LEU:CD1	5:L:560:ARG:NE	2.75	0.45
1:M:59:VAL:O	1:M:171:LEU:CG	2.63	0.45
1:N:65:LEU:HD22	1:N:168:ILE:HG22	1.98	0.45
2:O:802:VAL:HG22	2:O:1096:ILE:HD12	1.98	0.45
2:O:56:VAL:HG13	2:O:472:GLU:OE1	2.17	0.45
2:O:1243:MET:CG	3:P:372:MET:CE	2.94	0.45
3:P:78:LEU:HD23	3:P:78:LEU:H	1.77	0.45
5:R:437:GLN:CD	6:7:35:DC:N4	2.70	0.45
7:2:24:DT:H72	7:2:25:DA:H61	1.79	0.45
5:L:434:TRP:CD2	6:4:36:DT:C7	2.99	0.45
6:7:51:DC:OP1	6:7:51:DC:H3'	2.17	0.45
7:8:51:DG:C4	7:8:52:DT:C5	3.05	0.45
1:A:38:THR:CG2	1:B:42:ALA:HA	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1237:HIS:HB3	2:C:1242:LYS:NZ	2.31	0.45
2:C:12:ARG:HD3	2:C:1183:ALA:HB2	1.97	0.45
2:C:168:GLY:O	3:D:1065:ALA:CA	2.64	0.45
2:C:539:THR:CG2	2:C:540:ARG:N	2.51	0.45
2:C:810:TYR:CB	2:C:817:LEU:HD21	2.46	0.45
3:D:115:TRP:HE3	3:D:1333:THR:HG23	1.81	0.45
3:D:238:ILE:C	3:D:239:LEU:HD23	2.37	0.45
3:D:449:LEU:HG	3:D:450:HIS:N	2.32	0.45
3:D:548:VAL:HG12	3:D:550:VAL:HG23	1.97	0.45
3:D:958:ILE:HG13	3:D:1011:VAL:CG1	2.47	0.45
1:G:44:ARG:HA	1:G:183:ILE:CD1	2.46	0.45
1:G:228:LEU:HD23	1:G:231:PHE:HD2	1.81	0.45
1:H:162:GLU:OE2	1:H:164:ASP:HB3	2.16	0.45
1:G:235:ARG:NH2	1:H:16:ILE:HD13	2.32	0.45
1:H:31:LEU:HD13	1:H:35:PHE:HB3	1.98	0.45
2:I:1246:ARG:CZ	2:I:1249:GLY:N	2.79	0.45
2:I:912:ASP:C	2:I:913:VAL:HG23	2.37	0.45
3:J:1163:VAL:CG1	3:J:1175:LEU:HG	2.46	0.45
3:J:251:PRO:HG2	5:L:507:MET:CE	2.40	0.45
3:J:693:VAL:CG1	3:J:694:SER:N	2.79	0.45
3:J:826:ILE:HD13	3:J:831:VAL:HG22	1.97	0.45
1:M:47:LEU:O	1:M:51:MET:CG	2.64	0.45
2:O:169:LYS:HG2	2:O:171:LEU:HD21	1.97	0.45
2:O:530:ILE:HD11	2:O:575:LEU:N	2.32	0.45
2:O:729:ALA:HB1	2:O:755:LYS:NZ	2.31	0.45
3:P:1284:ARG:HA	3:P:1287:ILE:HD12	1.98	0.45
3:P:1347:LEU:O	3:P:1351:VAL:HG23	2.16	0.45
3:P:332:LYS:O	3:P:333:GLY:O	2.35	0.45
5:R:426:LYS:HG2	6:7:39:DA:H3'	1.98	0.45
5:R:462:LYS:HA	5:R:465:ARG:HE	1.81	0.45
5:R:586:ARG:HB2	6:7:13:DT:H72	1.99	0.45
5:R:600:HIS:HA	5:R:601:PRO:HD2	1.79	0.45
2:C:202:ARG:NH2	7:2:7:DC:H5''	2.32	0.45
6:7:47:DC:C2'	6:7:48:DA:H5''	2.47	0.45
1:A:57:THR:O	1:A:172:LEU:HD12	2.16	0.45
2:C:1268:GLN:HE22	3:D:351:GLY:HA2	1.82	0.45
2:C:615:VAL:HG22	2:C:638:SER:HB2	1.99	0.45
2:C:699:LEU:HA	2:C:699:LEU:HD23	1.65	0.45
2:C:972:PHE:CE2	2:C:994:ARG:O	2.68	0.45
3:D:368:LEU:HD12	3:D:369:PRO:HD2	1.99	0.45
3:D:749:LYS:HG3	3:D:755:ILE:CG1	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:28:LEU:CD1	1:H:231:PHE:HZ	2.30	0.45
2:I:13:LYS:HB2	2:I:1149:TYR:CD1	2.50	0.45
2:I:1314:GLN:HA	4:K:28:ARG:NH2	2.31	0.45
2:I:761:GLN:O	2:I:762:ASN:HB2	2.16	0.45
2:I:960:LEU:HD22	2:I:1028:LYS:HD3	1.99	0.45
3:J:379:PRO:HG2	3:J:380:PHE:H	1.81	0.45
3:J:450:HIS:CD2	3:J:452:LEU:H	2.35	0.45
5:L:147:GLN:HA	5:L:150:ARG:HD2	1.98	0.45
5:L:563:PHE:HB2	5:L:565:ILE:HG12	1.97	0.45
1:N:198:LEU:HD12	1:N:198:LEU:N	2.31	0.45
2:O:521:LEU:CD2	2:O:686:GLN:HB3	2.47	0.45
3:P:26:SER:O	3:P:30:ILE:HG13	2.16	0.45
5:R:344:LEU:HD23	5:R:347:ILE:HD12	1.99	0.45
5:R:557:LYS:HE2	5:R:560:ARG:HH11	1.81	0.45
2:C:78:PRO:HG3	2:C:129:LEU:CD1	2.45	0.45
2:C:811:ASN:HD22	2:C:1099:ASN:HA	1.79	0.45
2:C:73:TYR:HB3	2:C:98:VAL:HG22	1.99	0.45
4:E:18:ASP:O	4:E:22:VAL:HG23	2.17	0.45
5:F:412:LEU:O	5:F:416:VAL:HG23	2.16	0.45
2:I:1184:THR:OG1	2:I:1190:ALA:N	2.39	0.45
2:I:383:SER:O	2:I:387:ASN:CG	2.55	0.45
2:I:808:ASN:ND2	2:I:808:ASN:N	2.62	0.45
3:J:1154:ALA:HA	3:J:1211:SER:HB2	1.98	0.45
3:J:130:MET:HG2	3:J:131:PRO:O	2.17	0.45
2:I:1270:PHE:HB2	3:J:347:VAL:HG23	1.96	0.45
3:J:357:VAL:HG22	3:J:461:PHE:CE2	2.52	0.45
2:I:673:HIS:CG	3:J:763:PHE:O	2.67	0.45
3:J:797:THR:CG2	3:J:924:GLY:CA	2.78	0.45
3:J:903:LEU:HD23	3:J:903:LEU:HA	1.69	0.45
4:K:44:ASP:HB2	4:K:49:ILE:HG12	1.98	0.45
2:O:345:PRO:O	2:O:349:GLU:HG2	2.16	0.45
2:O:524:ILE:HD11	2:O:712:SER:CB	2.32	0.45
3:P:34:SER:CB	3:P:104:HIS:HB3	2.47	0.45
3:P:131:PRO:O	3:P:135:ILE:CG1	2.56	0.45
3:P:255:LEU:HD11	5:R:519:LEU:HD21	1.97	0.45
3:P:589:TYR:HE2	3:P:593:ASN:ND2	2.11	0.45
7:5:24:DT:C7	7:5:25:DA:N6	2.80	0.45
7:8:23:DT:H2"	7:8:24:DT:OP1	2.17	0.45
1:A:108:GLY:HA2	1:A:109:PRO:HD3	1.78	0.45
1:A:76:GLU:HG3	1:A:80:GLU:CD	2.37	0.45
1:B:193:GLU:O	1:B:194:GLN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1237:HIS:HB3	2:C:1242:LYS:HZ2	1.81	0.45
2:C:155:VAL:HG23	2:C:405:PHE:HA	1.98	0.45
2:C:236:LYS:O	2:C:237:LEU:HD23	2.16	0.45
2:C:149:LEU:HD13	2:C:453:ILE:HD11	1.99	0.45
2:C:736:VAL:HG12	2:C:737:ASN:N	2.32	0.45
3:D:1223:LEU:HD23	3:D:1223:LEU:HA	1.61	0.45
2:C:1333:LEU:CD1	3:D:331:ILE:CD1	2.94	0.45
2:I:1021:LEU:HA	2:I:1024:GLU:HB3	1.97	0.45
2:I:1278:LEU:HD13	2:I:1283:ALA:O	2.17	0.45
2:I:1290:MET:HA	2:I:1294:LYS:HG3	1.99	0.45
2:I:1339:LEU:H	2:I:1339:LEU:HG	1.66	0.45
2:I:443:ASP:OD1	2:I:443:ASP:N	2.50	0.45
2:I:869:GLY:C	2:I:870:ILE:HD13	2.37	0.45
3:J:1246:VAL:O	3:J:1246:VAL:CG1	2.62	0.45
3:J:653:ILE:HG21	3:J:693:VAL:HG23	1.98	0.45
3:J:795:TYR:O	3:J:799:ARG:CG	2.57	0.45
2:O:1293:VAL:O	2:O:1301:ARG:HB3	2.17	0.45
2:O:764:CYS:HB3	2:O:831:ILE:HB	1.99	0.45
3:P:1331:VAL:HA	3:P:1334:GLU:OE1	2.17	0.45
3:P:1348:LYS:O	3:P:1352:ILE:HD12	2.17	0.45
3:P:215:LYS:O	3:P:219:LYS:HG3	2.17	0.45
3:P:367:GLY:HA3	3:P:448:GLN:HB2	1.98	0.45
5:L:102:MET:CE	6:4:43:DT:H1'	2.38	0.45
5:R:423:ARG:HG3	6:7:37:DA:N1	2.32	0.45
2:C:209:ILE:CG2	2:C:210:LEU:N	2.79	0.45
2:C:523:GLU:HG2	2:C:524:ILE:N	2.31	0.45
3:D:1145:PHE:HD1	3:D:1260:MET:HE1	1.81	0.45
3:D:747:MET:HE1	3:D:775:SER:N	2.32	0.45
1:H:191:ARG:HG3	1:H:196:THR:HG22	1.98	0.45
2:I:39:ILE:HG13	2:I:39:ILE:H	1.58	0.45
3:J:1318:SER:HG	3:J:1321:SER:HB3	1.71	0.45
3:J:160:LEU:HD23	3:J:160:LEU:HA	1.87	0.45
3:J:826:ILE:HG23	3:J:831:VAL:HA	1.98	0.45
5:L:166:VAL:CG1	5:L:212:ILE:HG13	2.43	0.45
1:M:151:GLY:O	1:M:177:TYR:HB2	2.17	0.45
1:M:85:LEU:CD1	1:M:144:ILE:CD1	2.92	0.45
2:O:1123:GLY:HA3	2:O:1204:LEU:HD11	1.99	0.45
2:O:866:ASP:CG	2:O:867:GLU:H	2.19	0.45
3:P:931:THR:O	3:P:935:PHE:CD2	2.70	0.45
5:F:573:LEU:CB	7:2:45:DT:H3'	2.46	0.45
5:F:573:LEU:HB3	7:2:45:DT:H3'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:47:LEU:O	1:A:51:MET:HB2	2.17	0.45
2:C:920:VAL:HG13	2:C:921:PRO:HD2	1.99	0.45
3:D:1191:PRO:HB2	3:D:1194:ARG:HB2	1.98	0.45
3:D:431:ARG:HE	3:D:493:PRO:HG3	1.82	0.45
3:D:762:ASN:CG	3:D:764:ARG:HB3	2.36	0.45
5:F:110:LEU:HD21	5:F:385:ARG:HG3	1.99	0.45
5:F:165:PHE:HB3	5:F:166:VAL:H	1.64	0.45
2:C:1253:LEU:HB2	5:F:523:ILE:HB	1.98	0.45
1:G:43:LEU:C	1:G:47:LEU:HD12	2.36	0.45
1:H:10:LYS:HA	1:H:11:PRO:HD3	1.71	0.45
2:I:1141:LEU:O	2:I:1145:ILE:HG13	2.17	0.45
2:I:1302:THR:CG2	2:I:1303:LYS:N	2.80	0.45
2:I:143:ARG:HG2	2:I:513:GLN:C	2.37	0.45
3:J:1258:ARG:NH1	3:J:1258:ARG:HG2	2.32	0.45
3:J:435:GLN:CB	3:J:437:PHE:HE1	2.28	0.45
3:J:823:THR:HG22	3:J:879:ALA:HB2	1.99	0.45
2:O:1296:ASP:N	2:O:1296:ASP:OD1	2.47	0.45
2:O:130:MET:SD	2:O:134:GLY:HA2	2.57	0.45
2:O:880:GLY:O	2:O:919:ARG:HD3	2.17	0.45
2:O:979:LEU:HD22	2:O:1002:LEU:HD12	1.99	0.45
3:P:972:LYS:HD3	3:P:1002:VAL:HG21	1.99	0.45
3:P:139:LEU:HA	3:P:181:GLY:HA2	1.99	0.45
3:P:104:HIS:CA	3:P:244:VAL:HG23	2.46	0.45
3:P:339:ARG:NH2	3:P:798:ARG:HH12	2.14	0.45
3:P:517:CYS:HB2	3:P:719:PHE:CZ	2.52	0.45
3:P:809:VAL:HG22	3:P:915:ILE:HD11	1.97	0.45
5:R:390:ILE:HD12	5:R:435:ILE:HD12	1.98	0.45
5:R:506:SER:O	5:R:509:THR:OG1	2.22	0.45
6:1:43:DT:OP2	6:1:43:DT:O4'	2.35	0.45
6:7:45:DT:C5'	6:7:46:DG:OP2	2.65	0.45
1:B:65:LEU:HD22	1:B:168:ILE:CG2	2.47	0.45
2:C:1174:GLU:O	2:C:1177:ARG:HB3	2.17	0.45
2:C:1212:LEU:HD23	2:C:1212:LEU:HA	1.60	0.45
2:C:1275:VAL:CG1	2:C:1279:GLU:OE2	2.65	0.45
2:C:313:ALA:O	2:C:314:ASN:CB	2.64	0.45
3:D:112:ALA:HA	3:D:238:ILE:HD13	1.94	0.45
3:D:138:VAL:HG12	3:D:139:LEU:N	2.32	0.45
3:D:744:ARG:HG3	3:D:744:ARG:O	2.17	0.45
1:G:43:LEU:C	1:G:47:LEU:CD1	2.85	0.45
2:I:1178:LYS:HG2	2:I:1178:LYS:O	2.17	0.45
2:I:871:VAL:HG23	2:I:883:LEU:C	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1047:THR:CG2	3:J:1047:THR:O	2.65	0.45
3:J:1147:ALA:O	3:J:1218:HIS:HE1	2.00	0.45
3:J:436:ALA:C	3:J:437:PHE:CD1	2.91	0.45
2:O:203:LYS:O	2:O:204:LEU:HD23	2.17	0.45
2:O:523:GLU:HG2	2:O:527:LYS:HE3	1.99	0.45
2:O:736:VAL:HG23	2:O:747:GLY:O	2.17	0.45
6:1:43:DT:H2'	6:1:44:DG:O4'	2.17	0.45
7:2:5:DC:C2	7:2:6:DG:C8	3.05	0.45
7:2:5:DC:C2'	7:2:6:DG:H5'	2.47	0.45
6:7:30:DG:N3	7:8:34:DG:N2	2.65	0.45
1:A:112:ALA:HB3	1:A:126:PRO:HA	1.99	0.45
1:A:9:LEU:HD22	1:A:198:LEU:HD11	1.98	0.45
2:C:228:VAL:CG1	2:C:239:MET:HE2	2.47	0.45
2:C:848:GLU:HG2	2:C:888:THR:HA	1.99	0.45
2:C:890:LYS:CG	2:C:891:GLY:N	2.78	0.45
2:C:170:VAL:HG23	3:D:1065:ALA:O	2.17	0.45
3:D:1250:ASP:O	3:D:1254:GLU:HG3	2.17	0.45
3:D:154:LEU:CD1	3:D:158:GLN:HG2	2.47	0.45
2:I:143:ARG:HG2	2:I:513:GLN:O	2.16	0.45
2:I:529:ARG:C	2:I:530:ILE:HG13	2.36	0.45
2:I:870:ILE:CG2	2:I:944:ARG:HE	2.29	0.45
3:J:952:VAL:HG21	3:J:1017:VAL:HG11	1.99	0.45
2:I:808:ASN:HD21	3:J:633:ALA:CB	2.30	0.45
5:L:502:LYS:HA	5:L:502:LYS:HD2	1.45	0.45
2:O:1120:ALA:HB2	2:O:1199:LEU:CG	2.44	0.45
2:O:1246:ARG:HD2	2:O:1265:PHE:O	2.17	0.45
2:O:34:SER:HA	2:O:37:LYS:HD2	1.98	0.45
2:O:389:PHE:HB2	2:O:390:PHE:CE2	2.52	0.45
2:O:939:VAL:HG12	2:O:940:GLU:N	2.32	0.45
3:P:22:ILE:HG22	3:P:1336:ALA:HA	1.99	0.45
3:P:33:TRP:HB2	3:P:102:MET:HE2	1.98	0.45
3:P:506:VAL:HG12	3:P:510:LEU:HD11	1.98	0.45
5:R:491:GLU:HA	5:R:494:ILE:HD13	1.99	0.45
6:1:30:DG:C8	6:1:31:DT:H72	2.53	0.44
6:1:44:DG:H2''	6:1:45:DT:O4'	2.17	0.44
2:C:1099:ASN:HD21	3:D:504:GLN:HE21	1.64	0.44
2:C:168:GLY:O	3:D:1065:ALA:HB1	2.17	0.44
2:C:30:ILE:H	2:C:30:ILE:HG13	1.52	0.44
3:D:1173:ARG:O	3:D:1190:ILE:HD12	2.17	0.44
3:D:146:VAL:HG23	3:D:158:GLN:HB3	1.97	0.44
1:H:30:PRO:HG3	1:H:192:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:35:PHE:O	1:H:39:LEU:CG	2.64	0.44
2:I:335:THR:HG22	2:I:336:LEU:H	1.82	0.44
2:I:798:GLN:NE2	2:I:827:ARG:HG2	2.32	0.44
3:J:126:LEU:O	3:J:126:LEU:HD23	2.16	0.44
3:J:360:TYR:HE1	3:J:361:LEU:CD2	2.29	0.44
3:J:363:LEU:HG	3:J:487:THR:HG22	1.99	0.44
3:J:644:MET:O	3:J:764:ARG:CZ	2.63	0.44
1:M:221:ALA:O	1:M:224:LEU:HB3	2.18	0.44
1:M:35:PHE:CE1	1:N:46:ILE:HG12	2.51	0.44
2:O:590:PRO:O	2:O:655:VAL:HG23	2.17	0.44
2:O:677:ASN:OD1	3:P:783:LEU:HD21	2.17	0.44
3:P:1224:ARG:HB3	3:P:1228:ALA:HB3	1.98	0.44
3:P:1272:SER:HB3	3:P:1274:PHE:CE2	2.52	0.44
3:P:43:THR:OG1	3:P:44:ILE:N	2.51	0.44
3:P:549:LYS:HG2	3:P:571:ASP:OD1	2.16	0.44
3:P:849:LEU:HD11	3:P:857:LEU:CD2	2.46	0.44
5:R:213:ASP:OD1	5:R:213:ASP:N	2.50	0.44
6:1:43:DT:C2'	6:1:44:DG:O4'	2.66	0.44
7:2:24:DT:OP1	7:2:24:DT:H4'	2.18	0.44
6:7:54:DA:H2''	6:7:55:DC:C5	2.52	0.44
1:A:158:ARG:HE	1:A:172:LEU:HD11	1.82	0.44
1:A:205:MET:HE2	1:A:205:MET:HB2	1.75	0.44
1:A:89:ALA:CB	1:A:124:VAL:HB	2.48	0.44
1:B:224:LEU:HD13	1:B:225:ALA:CA	2.47	0.44
2:C:1177:ARG:HD2	2:C:1178:LYS:NZ	2.32	0.44
2:C:557:ARG:NH2	2:C:611:GLU:OE1	2.50	0.44
2:C:796:LEU:C	2:C:1233:LEU:HD21	2.37	0.44
3:D:145:VAL:HA	3:D:158:GLN:O	2.18	0.44
3:D:262:THR:O	5:F:507:MET:N	2.39	0.44
3:D:744:ARG:NH1	3:D:763:PHE:HZ	2.15	0.44
3:D:963:VAL:HG22	3:D:964:LYS:N	2.32	0.44
5:F:268:TYR:HA	5:F:271:ASN:HD22	1.82	0.44
1:G:219:ARG:O	1:G:223:ILE:HD12	2.16	0.44
2:I:1075:VAL:CG1	2:I:1076:ILE:N	2.80	0.44
2:I:371:ARG:HB3	5:L:99:ARG:NH2	2.32	0.44
2:C:214:ASN:ND2	2:I:999:GLU:HG2	2.32	0.44
3:J:1078:LEU:HD13	3:J:1121:LEU:HD22	2.00	0.44
3:J:130:MET:SD	3:J:135:ILE:CG1	2.97	0.44
3:J:291:ILE:H	3:J:291:ILE:HG13	1.64	0.44
3:J:724:MET:O	3:J:728:SER:OG	2.26	0.44
3:J:744:ARG:HD2	3:J:763:PHE:HE2	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:552:THR:O	5:L:554:ARG:N	2.50	0.44
2:O:149:LEU:HD13	2:O:453:ILE:HD11	1.99	0.44
2:O:715:THR:HG22	2:O:786:GLY:H	1.83	0.44
2:O:812:PHE:HZ	3:P:503:SER:OG	2.01	0.44
2:O:1326:LEU:HD13	3:P:342:LEU:CD1	2.47	0.44
3:P:355:ILE:HG13	3:P:355:ILE:O	2.18	0.44
3:P:398:LYS:NZ	5:R:532:LEU:CB	2.80	0.44
3:P:669:GLN:H	3:P:669:GLN:HG3	1.42	0.44
3:P:746:LEU:HG	3:P:746:LEU:H	1.50	0.44
5:R:584:ARG:HG3	5:R:585:GLU:N	2.31	0.44
7:2:26:DT:H2"	7:2:27:DA:OP1	2.16	0.44
5:L:434:TRP:CE2	6:4:36:DT:C7	3.00	0.44
6:4:47:DC:H2"	6:4:48:DA:OP1	2.16	0.44
1:B:22:THR:O	1:B:207:THR:HG22	2.17	0.44
1:B:85:LEU:HD13	1:B:144:ILE:HD11	1.98	0.44
2:C:1313:HIS:HE1	3:D:380:PHE:CE1	2.36	0.44
2:C:38:PHE:CD1	2:C:460:ALA:HB3	2.51	0.44
2:C:499:SER:CB	2:C:503:LYS:NZ	2.80	0.44
2:C:525:THR:CG2	2:C:526:HIS:N	2.80	0.44
2:C:692:THR:OG1	2:C:693:LEU:N	2.48	0.44
2:C:840:SER:O	2:C:840:SER:OG	2.28	0.44
1:G:67:GLU:HB3	1:G:171:LEU:HD22	1.99	0.44
2:I:702:THR:HA	2:I:1184:THR:O	2.18	0.44
2:I:929:ILE:HG22	2:I:930:ASP:N	2.32	0.44
2:I:53:PHE:CZ	2:I:98:VAL:HG21	2.53	0.44
2:I:994:ARG:HD3	2:I:994:ARG:HA	1.73	0.44
3:J:127:LEU:O	3:J:220:ARG:NH2	2.49	0.44
3:J:501:VAL:HG13	3:J:502:PRO:HD2	1.99	0.44
3:J:68:TYR:CD2	3:J:78:LEU:HD23	2.52	0.44
3:J:820:ILE:CG2	3:J:821:MET:N	2.80	0.44
5:L:583:THR:CG2	5:L:586:ARG:CB	2.85	0.44
5:L:583:THR:HG23	5:L:586:ARG:CB	2.32	0.44
2:O:1043:ALA:HB3	2:O:1046:VAL:CG2	2.47	0.44
2:O:99:LYS:CG	2:O:121:GLU:HG3	2.48	0.44
2:O:1323:PHE:O	2:O:1326:LEU:HB3	2.17	0.44
2:O:364:VAL:HG13	2:O:376:PRO:HG2	1.99	0.44
2:O:566:GLY:O	2:O:569:ILE:HG22	2.18	0.44
3:P:1174:ARG:HG3	3:P:1189:MET:CB	2.48	0.44
3:P:120:LEU:CD2	3:P:121:PRO:HA	2.47	0.44
3:P:1224:ARG:HD3	3:P:1228:ALA:HB1	1.98	0.44
3:P:1240:VAL:O	3:P:1243:LEU:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:233:LYS:HB2	3:P:236:TRP:CE2	2.51	0.44
3:P:901:ARG:HD3	3:P:906:GLY:HA2	2.00	0.44
5:R:362:ASN:HA	5:R:365:MET:HE2	1.99	0.44
5:R:452:ILE:HG23	5:R:456:MET:HB3	2.00	0.44
6:1:49:DG:H3'	6:1:49:DG:C8	2.52	0.44
7:2:43:DG:H2''	7:2:44:DA:OP2	2.17	0.44
6:7:45:DT:H5'	6:7:46:DG:OP2	2.16	0.44
7:8:26:DT:C2'	7:8:27:DA:OP1	2.63	0.44
1:A:118:ASP:OD1	1:A:119:GLY:N	2.48	0.44
1:A:11:PRO:HG3	1:B:227:GLN:HB3	1.98	0.44
2:C:176:ILE:HD12	2:C:184:LEU:CD1	2.47	0.44
2:C:194:LEU:HG	2:C:206:ALA:HB2	1.99	0.44
2:C:208:ILE:CG2	2:C:209:ILE:N	2.81	0.44
2:C:758:ARG:HG2	2:C:759:SER:O	2.18	0.44
3:D:1148:ARG:HG2	6:1:55:DC:OP1	2.16	0.44
3:D:412:LEU:O	3:D:416:ILE:HG13	2.17	0.44
3:D:746:LEU:C	3:D:747:MET:HG3	2.37	0.44
2:C:550:VAL:HG21	3:D:777:HIS:HA	2.00	0.44
1:H:129:VAL:CG1	1:H:132:HIS:HE1	2.22	0.44
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.50	0.44
2:I:14:ASP:OD1	2:I:1185:PRO:HG3	2.17	0.44
2:I:296:VAL:O	2:I:336:LEU:HG	2.18	0.44
2:I:82:VAL:CG2	2:I:83:GLN:H	2.27	0.44
2:I:840:SER:OG	2:I:1048:LYS:N	2.51	0.44
3:J:1015:GLU:HG2	3:J:1016:THR:H	1.83	0.44
3:J:833:GLU:OE1	3:J:1242:ARG:NH2	2.51	0.44
3:J:303:VAL:O	3:J:306:LEU:HB3	2.18	0.44
3:J:367:GLY:O	3:J:447:ILE:CG2	2.59	0.44
4:K:26:ARG:HG3	4:K:30:MET:SD	2.58	0.44
4:K:35:LYS:HD2	4:K:35:LYS:HA	1.53	0.44
1:N:100:LEU:HA	1:N:100:LEU:HD23	1.86	0.44
2:O:185:ASP:OD2	2:O:200:ARG:CD	2.65	0.44
2:O:347:ILE:HG22	2:O:351:LEU:HD12	1.99	0.44
2:O:467:GLY:O	2:O:471:VAL:HG23	2.16	0.44
2:O:75:LEU:HD23	2:O:75:LEU:HA	1.76	0.44
2:O:4:SER:CB	2:O:778:GLU:OE1	2.66	0.44
2:O:1337:ILE:HD12	3:P:22:ILE:CD1	2.44	0.44
3:P:431:ARG:HD3	3:P:493:PRO:HG3	1.99	0.44
3:P:554:GLU:N	3:P:566:LYS:O	2.44	0.44
3:P:950:ILE:HG22	3:P:950:ILE:O	2.16	0.44
6:4:43:DT:OP2	6:4:43:DT:O4'	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:34:DG:C5	6:7:35:DC:N4	2.85	0.44
7:8:18:DT:C2'	7:8:19:DA:H5''	2.41	0.44
1:A:61:ILE:HD12	1:A:171:LEU:CD1	2.48	0.44
1:B:190:ALA:HB3	1:B:198:LEU:C	2.38	0.44
2:C:163:LYS:HD3	2:C:164:THR:CG2	2.34	0.44
2:C:198:ILE:HD13	2:C:389:PHE:CE1	2.51	0.44
2:C:583:GLU:HG3	2:C:584:TYR:CD2	2.52	0.44
3:D:423:LEU:HD23	3:D:423:LEU:HA	1.54	0.44
3:D:450:HIS:HA	3:D:451:PRO:HD3	1.84	0.44
3:D:578:ILE:O	3:D:581:MET:HB2	2.17	0.44
3:D:647:PRO:HA	3:D:700:ASN:HD22	1.82	0.44
4:E:46:THR:HA	4:E:49:ILE:CD1	2.41	0.44
4:E:86:ILE:HG22	4:E:90:ARG:NH1	2.33	0.44
1:G:39:LEU:O	1:G:43:LEU:HG	2.18	0.44
1:G:232:VAL:CG2	1:H:221:ALA:HB1	2.39	0.44
1:H:219:ARG:O	1:H:222:THR:HB	2.18	0.44
1:G:221:ALA:HB1	1:H:228:LEU:CD2	2.47	0.44
2:I:22:LEU:HG	2:I:23:ASP:H	1.81	0.44
2:I:255:ILE:CD1	2:I:285:ILE:HD13	2.42	0.44
2:I:609:ILE:HG13	2:I:609:ILE:H	1.32	0.44
2:I:755:LYS:NZ	2:I:769:PRO:HD3	2.32	0.44
2:I:810:TYR:O	2:I:815:SER:HB2	2.18	0.44
3:J:1290:ARG:HA	3:J:1293:GLU:OE2	2.17	0.44
3:J:1328:THR:CG2	3:J:1332:LEU:HD11	2.30	0.44
3:J:1371:ARG:H	3:J:1371:ARG:HG2	1.68	0.44
3:J:201:LEU:HD11	3:J:220:ARG:NH1	2.31	0.44
3:J:205:LEU:HD21	3:J:214:ARG:HG3	1.98	0.44
3:J:22:ILE:HD11	3:J:1319:PHE:CE1	2.53	0.44
3:J:505:ASP:O	3:J:508:LEU:HB3	2.17	0.44
3:J:818:GLU:HA	3:J:881:LYS:NZ	2.33	0.44
5:L:440:THR:O	5:L:443:ILE:HG22	2.18	0.44
1:M:83:LEU:HA	1:M:86:LYS:HE3	2.00	0.44
3:P:321:LYS:O	3:P:321:LYS:HG2	2.17	0.44
3:P:79:LYS:CD	5:R:569:THR:HG22	2.48	0.44
7:5:22:DA:O3'	7:5:23:DT:C6	2.56	0.44
7:8:30:DA:C2'	7:8:31:DT:OP2	2.63	0.44
1:A:190:ALA:HB2	1:A:200:LYS:CB	2.47	0.44
1:A:192:VAL:CG1	1:A:195:ARG:HB2	2.43	0.44
3:D:1274:PHE:O	3:D:1275:LEU:CB	2.38	0.44
3:D:757:THR:HA	3:D:758:PRO:HD3	1.75	0.44
3:D:478:LEU:HD13	4:E:20:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:27:ALA:HB1	4:E:46:THR:HB	1.99	0.44
2:I:1005:GLU:CG	2:I:1006:GLU:H	2.19	0.44
2:I:155:VAL:HG13	2:I:176:ILE:HG12	2.00	0.44
2:I:594:VAL:HG22	2:I:599:VAL:HG22	2.00	0.44
3:J:1162:ILE:HD11	3:J:1180:VAL:HG12	1.96	0.44
3:J:1285:VAL:HG13	3:J:1286:LYS:HG3	2.00	0.44
3:J:22:ILE:HD11	3:J:1319:PHE:HE1	1.82	0.44
3:J:233:LYS:CG	3:J:234:PRO:HD2	2.46	0.44
3:J:801:VAL:CG2	3:J:920:ALA:HB1	2.46	0.44
4:K:45:LYS:HD2	4:K:45:LYS:HA	1.82	0.44
5:L:261:LEU:HD13	5:L:266:PHE:N	2.32	0.44
2:O:1086:PRO:HB3	2:O:1221:PHE:HE2	1.83	0.44
2:O:191:LYS:O	2:O:192:ASP:HB2	2.16	0.44
2:O:200:ARG:NH1	6:7:50:DT:O2	2.51	0.44
2:O:298:ALA:O	2:O:313:ALA:CA	2.66	0.44
2:O:496:LYS:HD2	5:R:468:ARG:HH21	1.81	0.44
2:O:727:VAL:HG23	2:O:773:LEU:CD1	2.43	0.44
3:P:997:VAL:HG12	3:P:1001:ALA:HB3	1.98	0.44
3:P:1158:GLU:O	3:P:1223:LEU:CD2	2.60	0.44
3:P:1280:VAL:HG12	3:P:1281:GLU:N	2.32	0.44
3:P:1368:ASP:O	3:P:1372:ARG:HG3	2.17	0.44
3:P:76:LYS:O	3:P:77:ARG:CB	2.63	0.44
1:A:100:LEU:CD1	1:A:115:ILE:HD13	2.48	0.44
1:A:39:LEU:O	1:A:43:LEU:HD12	2.17	0.44
1:B:28:LEU:HD13	1:B:29:GLU:N	2.33	0.44
2:C:1123:GLY:O	2:C:1126:ASP:HB2	2.17	0.44
2:C:13:LYS:CE	2:C:1149:TYR:O	2.66	0.44
2:C:367:TYR:CD1	2:C:384:LEU:HD22	2.52	0.44
2:C:499:SER:HB2	2:C:503:LYS:HZ3	1.83	0.44
2:C:631:GLU:HG3	2:C:633:LEU:H	1.82	0.44
3:D:1357:ILE:HG22	3:D:1359:ALA:H	1.83	0.44
3:D:478:LEU:HB3	4:E:20:VAL:HG13	2.00	0.44
5:F:395:THR:HG22	5:F:404:LEU:HD13	1.98	0.44
1:G:39:LEU:O	1:G:43:LEU:CD1	2.65	0.44
2:I:297:VAL:CG2	2:I:315:MET:H	2.30	0.44
2:I:213:LEU:HG	2:I:385:PHE:HZ	1.81	0.44
2:I:523:GLU:O	2:I:527:LYS:HG3	2.18	0.44
3:J:1040:MET:HE2	3:J:1046:ILE:HD13	1.99	0.44
3:J:147:ILE:HD12	3:J:177:ASP:HB3	2.00	0.44
3:J:21:LYS:HE3	3:J:23:ALA:HB2	2.00	0.44
3:J:260:PHE:O	5:L:505:ILE:HB	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:379:PRO:HA	3:J:382:TYR:CD2	2.52	0.44
3:J:554:GLU:N	3:J:566:LYS:O	2.51	0.44
3:J:57:PHE:O	3:J:98:ARG:NH2	2.51	0.44
3:J:394:ILE:HD11	5:L:539:SER:HB2	1.99	0.44
2:I:897:PRO:HB2	5:L:565:ILE:HA	2.00	0.44
1:M:166:ARG:CZ	1:M:172:LEU:HB2	2.46	0.44
1:M:46:ILE:CD1	1:M:46:ILE:H	2.30	0.44
3:P:225:GLU:OE2	3:P:229:GLN:NE2	2.50	0.44
5:R:429:THR:OG1	6:7:39:DA:H8	2.01	0.44
6:4:58:DG:C2	7:5:6:DG:C2	3.06	0.44
2:C:1286:THR:N	3:D:479:GLU:OE2	2.40	0.44
1:H:194:GLN:NE2	3:J:406:ALA:HB1	2.33	0.44
2:I:184:LEU:CD2	2:I:389:PHE:CZ	2.96	0.44
2:I:589:THR:HG23	2:I:590:PRO:HD2	2.00	0.44
2:I:667:LEU:HD11	2:I:794:LEU:CD2	2.36	0.44
3:J:1179:PRO:HB2	3:J:1182:GLY:O	2.18	0.44
3:J:136:GLU:C	3:J:140:TYR:HD2	2.16	0.44
3:J:485:MET:HG3	3:J:487:THR:OG1	2.18	0.44
3:J:723:TYR:CD1	3:J:723:TYR:O	2.70	0.44
3:J:725:MET:HE2	3:J:732:GLY:H	1.82	0.44
5:L:231:THR:O	5:L:231:THR:HG22	2.17	0.44
1:M:155:ALA:HA	1:M:172:LEU:HD21	1.99	0.44
2:O:1025:PHE:O	2:O:1028:LYS:HB2	2.18	0.44
2:O:1278:LEU:HD13	2:O:1287:LEU:N	2.33	0.44
2:O:1299:ASN:OD1	2:O:1299:ASN:N	2.41	0.44
2:O:146:VAL:HG23	2:O:511:LEU:O	2.18	0.44
2:O:47:TYR:H	2:O:50:GLU:HB2	1.83	0.44
3:P:1367:GLN:HG3	3:P:1368:ASP:N	2.33	0.44
3:P:134:ASP:CG	3:P:159:ILE:HD11	2.38	0.44
3:P:234:PRO:O	3:P:237:MET:HG2	2.18	0.44
3:P:514:THR:HB	3:P:595:ALA:HA	1.98	0.44
3:P:786:THR:O	3:P:790:THR:HG23	2.18	0.44
5:R:583:THR:CG2	5:R:586:ARG:CB	2.86	0.44
1:B:83:LEU:O	3:D:528:THR:CG2	2.66	0.44
2:C:840:SER:HG	2:C:1048:LYS:H	1.66	0.44
2:C:678:ARG:NH2	2:C:1106:ARG:HD2	2.32	0.44
3:D:160:LEU:HD23	3:D:160:LEU:HA	1.72	0.44
3:D:314:ARG:HH21	5:F:96:ASP:HB2	1.83	0.44
3:D:502:PRO:HB3	3:D:601:ILE:HD13	1.98	0.44
3:D:888:CYS:SG	3:D:894:VAL:HA	2.58	0.44
3:D:930:LEU:HB2	3:D:1134:ILE:CG1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:373:GLY:HA3	5:F:91:ILE:HG12	1.99	0.44
1:H:67:GLU:OE2	1:H:79:LEU:HD23	2.17	0.44
2:I:346:TYR:CZ	2:I:436:ARG:HG2	2.53	0.44
2:I:149:LEU:HD13	2:I:453:ILE:HD11	2.00	0.44
2:I:737:ASN:HB2	2:I:739:ASP:HB2	1.99	0.44
2:I:724:VAL:O	2:I:773:LEU:HD12	2.18	0.44
3:J:1219:ASP:OD1	3:J:1219:ASP:N	2.51	0.44
3:J:262:THR:OG1	3:J:266:ASN:ND2	2.45	0.44
4:K:50:ALA:O	4:K:54:ILE:CD1	2.66	0.44
5:L:562:ARG:HD3	5:L:576:VAL:HG21	2.00	0.44
1:M:30:PRO:HB2	1:M:198:LEU:HD13	1.97	0.44
1:N:82:LEU:HD22	1:N:173:VAL:HG22	1.95	0.44
2:O:112:GLY:O	2:O:114:VAL:N	2.49	0.44
2:O:758:ARG:HG3	2:O:833:ILE:O	2.18	0.44
3:P:1138:LEU:HD23	3:P:1139:PRO:HD3	1.98	0.44
3:P:1233:ILE:HG13	3:P:1233:ILE:H	1.47	0.44
3:P:1271:SER:HB3	3:P:1297:LYS:HZ1	1.81	0.44
3:P:180:MET:CE	3:P:293:ARG:CZ	2.96	0.44
3:P:282:LEU:HD22	3:P:287:ALA:HB2	2.00	0.44
3:P:376:LEU:HB2	3:P:377:PHE:CD2	2.53	0.44
3:P:678:ARG:HB3	3:P:678:ARG:CZ	2.47	0.44
3:P:57:PHE:HB3	3:P:98:ARG:NH2	2.33	0.44
5:R:449:THR:HG1	5:R:504:PRO:HG3	1.68	0.44
6:1:34:DG:C2	7:2:30:DA:C2	3.06	0.43
6:1:58:DG:C2	7:2:6:DG:C2	3.06	0.43
6:4:50:DT:O3'	6:4:51:DC:H6	2.01	0.43
6:7:30:DG:N2	7:8:34:DG:N3	2.66	0.43
1:A:208:ASN:ND2	1:A:208:ASN:N	2.64	0.43
1:B:156:SER:HA	1:B:159:ILE:HG22	2.00	0.43
2:C:1073:LYS:NZ	8:3:15:G:P	2.91	0.43
2:C:1237:HIS:HB3	2:C:1242:LYS:CE	2.47	0.43
2:C:1239:VAL:HG23	3:D:354:VAL:HG23	2.00	0.43
2:C:164:THR:HG23	2:C:165:HIS:ND1	2.32	0.43
2:C:39:ILE:O	2:C:39:ILE:CG2	2.65	0.43
2:C:663:VAL:O	2:C:666:SER:OG	2.28	0.43
1:A:65:LEU:HD22	2:C:873:ILE:CG2	2.48	0.43
3:D:1238:GLN:NE2	3:D:1248:ILE:O	2.50	0.43
3:D:412:LEU:HG	3:D:416:ILE:HD12	2.01	0.43
3:D:79:LYS:CG	5:F:569:THR:HG22	2.45	0.43
1:H:67:GLU:O	1:H:78:ILE:HB	2.18	0.43
2:I:390:PHE:CD2	2:I:390:PHE:N	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:720:ARG:HB3	2:I:736:VAL:HG13	1.99	0.43
3:J:1250:ASP:OD1	3:J:1250:ASP:N	2.51	0.43
3:J:153:ASN:CB	3:J:154:LEU:HD12	2.43	0.43
3:J:279:LEU:O	3:J:283:LEU:HG	2.18	0.43
3:J:384:LYS:HZ2	3:J:415:VAL:HG13	1.83	0.43
3:J:424:ASN:C	3:J:466:MET:HE3	2.38	0.43
4:K:48:VAL:CA	4:K:51:LEU:HG	2.44	0.43
3:J:614:LEU:HD23	4:K:5:THR:HG21	2.00	0.43
1:M:225:ALA:O	1:M:228:LEU:HB2	2.17	0.43
2:O:1327:LEU:HD21	2:O:1339:LEU:HD21	2.00	0.43
2:O:30:ILE:H	2:O:30:ILE:HG13	1.54	0.43
1:G:191:ARG:HH21	3:P:1375:ALA:HB3	1.83	0.43
3:P:975:ILE:HD11	3:P:1003:LEU:CD1	2.47	0.43
4:Q:21:LEU:HA	4:Q:21:LEU:HD23	1.77	0.43
6:1:51:DC:OP2	6:1:51:DC:C2'	2.63	0.43
5:L:434:TRP:CE2	6:4:36:DT:H73	2.53	0.43
3:J:346:ARG:NH1	7:5:16:DC:OP1	2.51	0.43
1:A:61:ILE:HD12	1:A:171:LEU:HD13	1.99	0.43
2:C:1161:LEU:O	2:C:1164:PHE:CD2	2.63	0.43
2:C:673:HIS:HB3	3:D:763:PHE:O	2.18	0.43
3:D:1040:MET:HG2	3:D:1046:ILE:CG2	2.48	0.43
3:D:767:LEU:HD22	3:D:771:GLN:OE1	2.17	0.43
2:I:1284:ALA:CA	3:J:1357:ILE:HD12	2.48	0.43
3:J:379:PRO:HG2	3:J:380:PHE:N	2.33	0.43
1:H:194:GLN:HE22	3:J:406:ALA:CB	2.31	0.43
3:J:579:LEU:O	3:J:583:VAL:HG23	2.18	0.43
3:J:859:PRO:O	3:J:862:THR:OG1	2.35	0.43
5:L:471:LEU:CG	5:L:476:ARG:O	2.60	0.43
1:M:224:LEU:HD21	1:N:228:LEU:HD11	1.99	0.43
1:M:43:LEU:C	1:M:47:LEU:HD12	2.38	0.43
1:N:95:LYS:NZ	1:N:120:ASP:OD2	2.51	0.43
1:M:232:VAL:O	1:N:218:ARG:HG2	2.17	0.43
1:M:184:ALA:CB	2:O:1091:GLY:HA3	2.27	0.43
2:O:1278:LEU:HD13	2:O:1287:LEU:HB2	1.99	0.43
2:O:129:LEU:HD23	2:O:129:LEU:HA	1.83	0.43
2:O:1334:GLY:O	3:P:25:ALA:CB	2.66	0.43
2:O:150:HIS:HE1	2:O:454:ARG:HG3	1.83	0.43
2:O:698:PRO:HA	2:O:1231:TYR:CD1	2.53	0.43
3:P:974:VAL:CG1	3:P:1028:ILE:HG21	2.39	0.43
3:P:1134:ILE:O	3:P:1138:LEU:HB3	2.18	0.43
3:P:272:VAL:HG22	3:P:302:ALA:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:435:GLN:HB2	3:P:457:TYR:OH	2.18	0.43
5:R:137:TYR:CE1	5:R:353:LEU:HD11	2.54	0.43
7:5:27:DA:OP2	7:5:27:DA:C8	2.71	0.43
2:C:46:GLN:HE21	2:C:46:GLN:HB2	1.67	0.43
2:C:854:ILE:HA	2:C:855:PRO:HD2	1.80	0.43
3:D:1040:MET:HE3	3:D:1061:VAL:HG22	2.00	0.43
3:D:352:ARG:O	3:D:372:MET:HE2	2.18	0.43
3:D:423:LEU:HD21	3:D:468:VAL:HG13	2.01	0.43
3:D:425:ARG:CD	3:D:457:TYR:O	2.66	0.43
3:D:427:PRO:CG	3:D:429:LEU:HD21	2.38	0.43
2:C:809:GLY:N	3:D:629:PHE:CD1	2.86	0.43
4:E:63:ILE:HA	4:E:66:VAL:HB	2.00	0.43
4:E:69:ARG:HG2	4:E:73:GLN:HE21	1.82	0.43
3:D:312:ARG:NH2	5:F:95:THR:OG1	2.52	0.43
1:G:225:ALA:HA	1:G:228:LEU:HB2	2.01	0.43
1:G:71:LYS:HG3	1:G:72:GLU:H	1.82	0.43
1:H:109:PRO:HG3	1:H:132:HIS:CD2	2.53	0.43
2:I:1239:VAL:HA	2:I:1242:LYS:HB2	1.99	0.43
2:I:337:PHE:C	2:I:338:THR:HG23	2.38	0.43
2:I:414:ILE:HG12	2:I:414:ILE:H	1.64	0.43
2:I:768:MET:HA	2:I:769:PRO:HD3	1.85	0.43
2:I:879:GLY:HA2	2:I:920:VAL:HG12	1.99	0.43
3:J:1155:ILE:CG2	3:J:1156:LEU:N	2.81	0.43
3:J:144:TYR:HA	3:J:180:MET:HG3	2.01	0.43
3:J:554:GLU:OE2	3:J:570:LYS:CE	2.67	0.43
3:J:592:VAL:O	3:J:592:VAL:CG2	2.66	0.43
3:J:712:GLN:N	3:J:712:GLN:OE1	2.50	0.43
3:J:840:LEU:CD1	3:J:869:CYS:SG	2.93	0.43
3:J:843:VAL:O	3:J:882:VAL:HG23	2.19	0.43
2:O:209:ILE:HG23	2:O:210:LEU:N	2.33	0.43
2:O:341:LEU:HB2	2:O:342:ASP:H	1.63	0.43
2:O:3:TYR:O	2:O:8:LYS:HE3	2.18	0.43
2:O:962:GLU:O	2:O:966:ILE:HG13	2.19	0.43
2:O:984:VAL:O	2:O:984:VAL:HG12	2.18	0.43
3:P:1073:ASP:O	3:P:1075:ARG:HG2	2.18	0.43
3:P:262:THR:O	3:P:262:THR:HG23	2.18	0.43
3:P:29:MET:O	3:P:32:SER:HB3	2.17	0.43
3:P:544:LEU:O	3:P:573:THR:HB	2.18	0.43
7:5:49:DA:H2"	7:5:50:DA:H5"	2.00	0.43
1:A:223:ILE:O	1:A:227:GLN:HG2	2.18	0.43
1:A:61:ILE:HG23	1:A:142:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1330:ILE:CG2	2:C:1335:ILE:HB	2.48	0.43
2:C:202:ARG:NH2	7:2:7:DC:H3'	2.34	0.43
2:C:155:VAL:CG2	2:C:405:PHE:HA	2.48	0.43
2:C:562:GLU:HG2	2:C:562:GLU:O	2.18	0.43
2:C:956:ALA:O	2:C:960:LEU:HD12	2.18	0.43
3:D:1179:PRO:HB2	3:D:1182:GLY:O	2.17	0.43
3:D:506:VAL:HG12	3:D:507:VAL:N	2.33	0.43
3:D:746:LEU:HD23	3:D:746:LEU:HA	1.51	0.43
5:F:100:MET:HG2	5:F:100:MET:H	1.55	0.43
5:F:147:GLN:HE21	5:F:161:LEU:HD11	1.84	0.43
1:G:230:ALA:HB3	1:H:11:PRO:HB2	1.99	0.43
2:I:1289:GLU:O	2:I:1293:VAL:HG22	2.19	0.43
2:I:515:MET:SD	2:I:523:GLU:HG3	2.59	0.43
3:J:1355:ARG:NE	3:J:1369:ARG:HH12	2.16	0.43
3:J:264:ASP:HB3	3:J:324:LEU:HD22	1.99	0.43
3:J:514:THR:HG21	3:J:596:LEU:HG	2.00	0.43
3:J:650:LYS:O	3:J:654:ILE:HG13	2.19	0.43
3:J:982:LEU:HB3	3:J:995:TYR:HB2	2.01	0.43
5:L:387:VAL:HG11	5:L:409:ASN:OD1	2.18	0.43
1:M:81:ILE:HD11	1:M:131:CYS:HB2	1.96	0.43
1:N:212:ASP:OD1	1:N:213:PRO:HD2	2.18	0.43
2:O:402:ARG:HG2	2:O:416:GLY:N	2.33	0.43
3:P:1011:VAL:HG11	3:P:1017:VAL:HG11	2.00	0.43
3:P:812:ASP:O	3:P:897:HIS:ND1	2.43	0.43
5:R:275:VAL:O	5:R:278:ASP:HB2	2.18	0.43
5:R:385:ARG:HA	5:R:388:ILE:HG23	1.99	0.43
5:R:584:ARG:CG	5:R:585:GLU:N	2.81	0.43
5:R:587:ILE:H	5:R:587:ILE:HG12	1.55	0.43
5:R:601:PRO:HB3	5:R:608:ARG:HH21	1.84	0.43
6:1:48:DA:H3'	6:1:49:DG:H5''	2.00	0.43
7:2:4:DC:N3	7:2:5:DC:C4	2.87	0.43
1:A:202:VAL:O	1:A:202:VAL:HG12	2.17	0.43
1:A:224:LEU:C	1:A:224:LEU:HD12	2.39	0.43
2:C:1200:LYS:HB2	2:C:1200:LYS:HE3	1.60	0.43
2:C:519:ASN:OD1	2:C:519:ASN:N	2.52	0.43
2:C:802:VAL:CG1	2:C:803:ALA:N	2.81	0.43
2:C:80:PHE:O	2:C:92:TYR:CE1	2.72	0.43
2:C:878:THR:O	2:C:881:ASP:HB2	2.18	0.43
2:C:941:LYS:CB	2:C:946:LEU:HD13	2.48	0.43
3:D:456:ALA:HB2	3:D:499:ILE:HG21	2.00	0.43
3:D:697:MET:HB3	3:D:697:MET:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:686:TRP:CE2	3:D:758:PRO:HD3	2.54	0.43
1:H:32:GLU:O	1:H:35:PHE:HB2	2.19	0.43
2:I:155:VAL:CG2	2:I:405:PHE:CD2	2.99	0.43
2:I:764:CYS:HB3	2:I:831:ILE:HB	2.00	0.43
3:J:34:SER:HB2	3:J:104:HIS:HB3	2.00	0.43
2:I:1242:LYS:CE	3:J:465:GLN:HE21	2.28	0.43
3:J:485:MET:HB3	3:J:488:ASN:HB2	2.01	0.43
3:J:537:TYR:CE1	3:J:544:LEU:HG	2.54	0.43
3:J:450:HIS:CE1	3:J:625:MET:HE1	2.53	0.43
4:K:36:ASP:HA	4:K:37:PRO:HD2	1.84	0.43
4:K:70:GLN:O	4:K:74:GLU:HG3	2.18	0.43
1:M:11:PRO:CD	1:N:227:GLN:HA	2.48	0.43
1:N:48:LEU:HD21	1:N:183:ILE:HG22	2.00	0.43
1:N:83:LEU:HD13	1:N:86:LYS:HE3	2.01	0.43
2:O:101:ARG:HG2	2:O:119:GLU:HB3	1.99	0.43
2:O:15:PHE:HE2	2:O:1182:ILE:CD1	2.31	0.43
3:P:107:LEU:HD11	3:P:242:LEU:HB2	2.01	0.43
3:P:470:VAL:O	3:P:472:LEU:HD23	2.18	0.43
3:P:517:CYS:HB3	3:P:545:HIS:HB2	1.99	0.43
3:P:849:LEU:HA	3:P:856:ILE:O	2.18	0.43
5:R:237:ALA:O	5:R:238:LYS:HB2	2.19	0.43
5:R:262:VAL:HA	5:R:263:PRO:HD3	1.90	0.43
5:R:410:ILE:O	5:R:413:MET:HB2	2.18	0.43
5:L:102:MET:CB	6:4:42:DG:N2	2.82	0.43
6:7:32:DA:H1'	6:7:33:DT:H5'	2.00	0.43
7:8:4:DC:N4	7:8:5:DC:N4	2.66	0.43
1:B:13:LEU:HD11	1:B:16:ILE:HG12	2.00	0.43
1:B:54:CYS:SG	1:B:148:ARG:HB2	2.58	0.43
1:B:82:LEU:HD13	1:B:173:VAL:HG13	2.01	0.43
2:C:500:ALA:O	2:C:504:GLU:HG2	2.17	0.43
3:D:1167:LYS:HE3	3:D:1187:GLU:OE2	2.18	0.43
2:C:1291:LEU:HD13	3:D:1354:GLY:HA2	2.00	0.43
2:C:1337:ILE:HD12	3:D:22:ILE:HD11	2.01	0.43
2:C:1294:LYS:CB	3:D:347:VAL:HG13	2.46	0.43
3:D:483:LEU:HG	3:D:483:LEU:H	1.54	0.43
4:E:35:LYS:HA	4:E:35:LYS:HD3	1.66	0.43
1:H:111:THR:OG1	1:H:126:PRO:O	2.32	0.43
2:I:1225:VAL:HG12	2:I:1226:THR:N	2.33	0.43
2:I:202:ARG:HB2	2:I:369:MET:CE	2.48	0.43
2:I:561:ILE:HG22	3:J:776:THR:HG23	1.99	0.43
2:I:726:TYR:HB3	2:I:733:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:980:VAL:O	2:I:980:VAL:CG1	2.66	0.43
3:J:450:HIS:HD2	3:J:452:LEU:H	1.67	0.43
3:J:555:TYR:HB2	3:J:586:GLY:HA2	2.01	0.43
3:J:924:GLY:O	3:J:928:THR:OG1	2.34	0.43
5:L:145:LEU:HD23	5:L:221:PHE:CE2	2.54	0.43
5:L:500:ILE:H	5:L:500:ILE:HG13	1.66	0.43
1:M:217:ILE:HG13	1:M:217:ILE:H	1.66	0.43
1:N:47:LEU:HD13	1:N:205:MET:HE3	2.00	0.43
2:O:697:LYS:HZ2	2:O:1181:PRO:HG3	1.83	0.43
2:O:325:LEU:HA	2:O:325:LEU:HD23	1.81	0.43
2:O:453:ILE:HG13	2:O:587:LEU:HD21	2.00	0.43
2:O:672:GLU:CD	2:O:672:GLU:H	2.22	0.43
2:O:563:THR:H	2:O:680:LEU:HD11	1.84	0.43
2:O:859:GLU:HA	2:O:862:LEU:HD12	1.99	0.43
3:P:1176:VAL:HG22	3:P:1187:GLU:HG2	2.01	0.43
3:P:16:GLU:O	3:P:16:GLU:HG2	2.18	0.43
3:P:251:PRO:HG2	5:R:507:MET:HE1	2.00	0.43
3:P:382:TYR:CZ	3:P:398:LYS:HE3	2.53	0.43
4:Q:5:THR:HG22	4:Q:7:GLN:N	2.21	0.43
5:R:460:ILE:HA	5:R:463:LEU:CG	2.48	0.43
7:2:6:DG:C5	7:2:7:DC:C4	3.07	0.43
1:A:174:ASP:OD2	2:C:1059:ARG:NH2	2.52	0.43
2:C:1049:ILE:HG23	2:C:1050:VAL:N	2.34	0.43
2:C:1143:GLU:OE1	2:C:1144:PHE:CA	2.66	0.43
2:C:191:LYS:HB2	2:C:191:LYS:HE3	1.63	0.43
2:C:149:LEU:CD1	2:C:451:ARG:HB3	2.15	0.43
2:C:75:LEU:HD22	2:C:94:ALA:HB1	2.01	0.43
2:C:880:GLY:O	2:C:919:ARG:NH1	2.52	0.43
2:C:868:SER:CB	2:C:944:ARG:HB2	2.48	0.43
3:D:1149:ARG:HA	3:D:1150:PRO:HD3	1.88	0.43
3:D:131:PRO:O	3:D:134:ASP:CG	2.57	0.43
3:D:769:VAL:O	3:D:773:PHE:HB2	2.19	0.43
3:D:259:ARG:HD3	5:F:502:LYS:HE2	2.00	0.43
1:H:195:ARG:CB	1:H:198:LEU:HD13	2.43	0.43
1:G:228:LEU:CG	1:H:224:LEU:HD21	2.48	0.43
2:I:1103:VAL:HB	2:I:1104:PRO:HD3	2.00	0.43
2:I:16:GLY:CA	2:I:1185:PRO:HG2	2.49	0.43
2:I:1230:MET:HG2	2:I:1231:TYR:N	2.34	0.43
2:I:531:SER:HB2	2:I:572:ILE:HG12	2.01	0.43
2:I:897:PRO:HB3	5:L:565:ILE:HA	2.00	0.43
3:J:1141:VAL:HA	3:J:1144:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1226:VAL:CA	3:J:1229:VAL:HG12	2.49	0.43
3:J:139:LEU:HD21	3:J:185:ILE:HD12	1.98	0.43
3:J:555:TYR:CD1	3:J:555:TYR:N	2.86	0.43
3:J:867:GLN:O	3:J:871:LEU:HG	2.18	0.43
5:L:548:LEU:HD11	5:L:560:ARG:NE	2.25	0.43
1:M:50:SER:O	1:M:52:PRO:HD3	2.19	0.43
1:M:75:GLN:NE2	2:O:727:VAL:O	2.52	0.43
2:O:936:ARG:N	2:O:1042:LEU:HD12	2.34	0.43
2:O:158:ASP:HB3	2:O:173:ASN:OD1	2.18	0.43
2:O:976:ARG:HD2	2:O:990:ASP:OD1	2.17	0.43
3:P:1263:LYS:HD3	3:P:1280:VAL:C	2.39	0.43
3:P:136:GLU:OE1	3:P:140:TYR:HE2	2.01	0.43
1:N:84:ASN:OD1	3:P:551:ARG:NH1	2.50	0.43
5:R:370:ALA:HB1	5:R:374:ARG:NH2	2.32	0.43
5:L:386:LEU:CA	6:4:41:DT:O4'	2.57	0.43
6:4:43:DT:H2'	6:4:44:DG:H5''	2.00	0.43
6:4:25:DC:H42	7:5:38:DG:H1	1.67	0.43
1:A:58:GLU:HB2	1:A:145:LYS:HB3	2.01	0.43
1:A:66:HIS:O	1:A:78:ILE:CD1	2.67	0.43
2:C:1128:ILE:HG22	2:C:1177:ARG:HA	2.00	0.43
2:C:1271:GLY:O	2:C:1275:VAL:HG23	2.18	0.43
2:C:2:VAL:HG12	2:C:3:TYR:N	2.34	0.43
2:C:447:HIS:HD2	2:C:449:GLY:H	1.67	0.43
2:C:720:ARG:NH1	2:C:741:MET:HA	2.34	0.43
2:C:759:SER:HG	2:C:763:THR:CB	2.29	0.43
3:D:1252:HIS:O	3:D:1255:VAL:HB	2.18	0.43
3:D:230:SER:HB2	3:D:1339:GLY:HA3	2.01	0.43
3:D:141:PHE:HA	3:D:180:MET:HG2	2.00	0.43
3:D:264:ASP:OD1	5:F:508:GLU:HB2	2.19	0.43
2:C:1221:PHE:CD1	3:D:633:ALA:O	2.71	0.43
5:F:507:MET:O	5:F:519:LEU:HB3	2.19	0.43
1:G:155:ALA:HA	1:G:172:LEU:HD21	2.01	0.43
1:H:61:ILE:CG2	1:H:140:ILE:HD11	2.49	0.43
2:I:810:TYR:CE2	2:I:1078:LYS:CB	3.02	0.43
2:I:194:LEU:HG	2:I:206:ALA:HB2	1.99	0.43
2:I:272:ARG:H	2:I:272:ARG:HD2	1.83	0.43
2:I:287:VAL:O	2:I:287:VAL:HG23	2.19	0.43
3:J:372:MET:O	3:J:376:LEU:HG	2.18	0.43
3:J:421:VAL:CG1	3:J:422:LEU:N	2.51	0.43
2:I:1100:PRO:CB	3:J:639:VAL:HG23	2.37	0.43
3:J:834:PRO:HD2	3:J:837:ASP:OD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:158:ARG:CD	1:N:172:LEU:HD11	2.48	0.43
2:O:1302:THR:CG2	2:O:1303:LYS:N	2.82	0.43
2:O:149:LEU:HD11	2:O:451:ARG:HB3	2.01	0.43
3:P:262:THR:C	5:R:507:MET:HB3	2.39	0.43
3:P:361:LEU:O	3:P:626:TYR:OH	2.34	0.43
5:R:115:GLY:O	5:R:119:ILE:CD1	2.67	0.43
5:R:289:LYS:HB2	5:R:289:LYS:HE3	1.72	0.43
2:O:856:ASN:OD1	5:R:612:ASP:O	2.37	0.43
6:1:43:DT:H3'	6:1:44:DG:H5'	2.00	0.43
6:7:20:DC:O2	7:8:44:DA:H2	2.02	0.43
1:B:190:ALA:O	1:B:191:ARG:C	2.57	0.43
2:C:1177:ARG:HH11	2:C:1178:LYS:HZ3	1.67	0.43
2:C:207:THR:HB	2:C:350:THR:CG2	2.49	0.43
2:C:297:VAL:HG22	2:C:315:MET:O	2.18	0.43
2:C:405:PHE:O	2:C:409:LEU:HG	2.19	0.43
2:C:518:ASN:OD1	2:C:761:GLN:HG2	2.19	0.43
2:C:587:LEU:HA	2:C:587:LEU:HD23	1.17	0.43
2:C:759:SER:N	2:C:765:ILE:HD11	2.33	0.43
3:D:1240:VAL:O	3:D:1243:LEU:HB2	2.19	0.43
3:D:295:GLU:HA	3:D:295:GLU:OE1	2.18	0.43
3:D:114:ILE:CD1	3:D:308:ASP:HB3	2.48	0.43
3:D:422:LEU:HD22	3:D:484:MET:HE2	2.00	0.43
3:D:749:LYS:HG2	3:D:755:ILE:CD1	2.49	0.43
3:D:950:ILE:CD1	3:D:997:VAL:HG22	2.46	0.43
5:F:443:ILE:HG23	5:F:444:ALA:N	2.33	0.43
5:F:489:MET:HB3	5:F:490:PRO:HD2	2.00	0.43
1:G:228:LEU:CD2	1:H:224:LEU:CD2	2.74	0.43
2:I:1010:GLN:O	2:I:1014:LEU:HG	2.18	0.43
2:I:1273:MET:HB3	3:J:428:THR:CB	2.48	0.43
2:I:237:LEU:CD1	2:I:289:VAL:HG22	2.49	0.43
2:I:699:LEU:N	2:I:699:LEU:HD23	2.33	0.43
2:I:724:VAL:HG12	2:I:727:VAL:HG22	2.00	0.43
3:J:1040:MET:HG2	3:J:1046:ILE:HG23	1.99	0.43
3:J:1067:ARG:HD3	3:J:1071:GLY:O	2.19	0.43
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.19	0.43
3:J:544:LEU:HD22	3:J:578:ILE:HD11	1.99	0.43
3:J:872:LEU:H	3:J:872:LEU:HG	1.33	0.43
5:L:554:ARG:CG	5:L:555:GLU:N	2.80	0.43
1:M:51:MET:HE2	1:M:179:PRO:HG2	2.01	0.43
1:M:57:THR:HG22	1:M:58:GLU:HG3	2.00	0.43
2:O:606:LEU:HD22	2:O:610:GLU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:265:LEU:O	3:P:269:TYR:CD2	2.67	0.43
3:P:702:GLN:HG2	3:P:703:THR:HG23	2.01	0.43
3:P:845:ALA:O	3:P:846:GLU:CB	2.66	0.43
5:R:275:VAL:O	5:R:279:ARG:HG3	2.18	0.43
6:1:46:DG:H2'	6:1:47:DC:O4'	2.18	0.43
1:B:191:ARG:O	1:B:191:ARG:CG	2.62	0.43
1:B:22:THR:OG1	1:B:207:THR:O	2.36	0.43
2:C:1032:LYS:O	2:C:1036:ILE:HD12	2.19	0.43
1:A:49:SER:HB3	2:C:1083:GLU:OE2	2.19	0.43
2:C:228:VAL:HG11	2:C:239:MET:HE2	2.00	0.43
2:C:369:MET:HE3	2:C:369:MET:HB2	1.77	0.43
2:C:871:VAL:HG23	2:C:883:LEU:CA	2.48	0.43
3:D:1314:LEU:HD21	3:D:1325:PHE:CD2	2.50	0.43
3:D:110:PRO:HB3	3:D:238:ILE:CG2	2.49	0.43
3:D:620:PHE:O	3:D:623:GLN:HB2	2.19	0.43
3:D:70:CYS:HB2	3:D:90:VAL:HB	2.00	0.43
3:D:736:GLN:HG2	3:D:736:GLN:H	1.50	0.43
5:F:281:ARG:HA	5:F:281:ARG:HD2	1.93	0.43
5:F:514:ASP:O	5:F:516:ASP:HB2	2.18	0.43
5:F:523:ILE:H	5:F:523:ILE:HG13	1.41	0.43
1:H:193:GLU:O	1:H:194:GLN:HB2	2.18	0.43
2:I:830:THR:HG23	2:I:1234:LYS:NZ	2.32	0.43
3:J:1163:VAL:O	3:J:1201:GLY:HA2	2.18	0.43
3:J:1271:SER:HB3	3:J:1297:LYS:NZ	2.34	0.43
3:J:1328:THR:O	3:J:1332:LEU:CG	2.65	0.43
3:J:368:LEU:HD21	3:J:376:LEU:CD1	2.49	0.43
3:J:879:ALA:C	3:J:880:VAL:CG2	2.86	0.43
2:O:73:TYR:CB	2:O:98:VAL:HG22	2.48	0.43
3:P:1284:ARG:O	3:P:1287:ILE:HB	2.18	0.43
3:P:165:TYR:O	3:P:168:ALA:HB3	2.19	0.43
3:P:316:ILE:HG22	3:P:324:LEU:HD12	2.00	0.43
3:P:678:ARG:HH11	3:P:678:ARG:CG	2.31	0.43
3:P:901:ARG:HG3	3:P:907:HIS:O	2.18	0.43
5:L:386:LEU:CD1	6:4:41:DT:O4'	2.66	0.42
1:B:158:ARG:NH2	1:B:175:ALA:CB	2.62	0.42
2:C:686:GLN:NE2	2:C:1069:ARG:CG	2.77	0.42
2:C:1172:LEU:HA	2:C:1175:ASN:HD22	1.84	0.42
2:C:890:LYS:HE2	2:C:892:GLU:HB2	2.01	0.42
3:D:194:LEU:O	3:D:198:CYS:SG	2.76	0.42
5:F:572:THR:O	5:F:576:VAL:HG23	2.18	0.42
1:G:11:PRO:HB2	1:G:28:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:ALA:N	1:G:174:ASP:OD1	2.27	0.42
1:H:154:PRO:HD2	1:H:157:THR:OG1	2.18	0.42
3:J:38:VAL:HG21	3:J:244:VAL:HG21	2.01	0.42
3:J:424:ASN:C	3:J:466:MET:CE	2.87	0.42
3:J:686:TRP:CE3	3:J:758:PRO:CG	3.02	0.42
3:J:983:LYS:HZ2	3:J:985:ILE:HD11	1.79	0.42
5:L:167:ASP:HB2	5:L:262:VAL:HG21	2.01	0.42
2:O:197:ARG:HB3	2:O:200:ARG:C	2.39	0.42
2:O:70:TYR:CZ	2:O:72:SER:HA	2.54	0.42
3:P:130:MET:HG2	3:P:135:ILE:CD1	2.45	0.42
3:P:376:LEU:H	3:P:376:LEU:HG	1.62	0.42
3:P:603:LYS:O	3:P:607:THR:OG1	2.36	0.42
3:P:844:THR:HG23	3:P:864:LEU:HD21	2.01	0.42
5:R:119:ILE:O	5:R:123:ILE:HG13	2.18	0.42
6:1:26:DT:H1'	6:1:27:DC:H5'	2.00	0.42
6:1:51:DC:C5	6:1:52:DT:H73	2.54	0.42
5:F:461:ASN:HA	7:2:26:DT:H71	2.00	0.42
2:C:688:GLN:NE2	8:3:13:GTP:O3'	2.52	0.42
6:4:36:DT:C3'	6:4:37:DA:P	3.07	0.42
6:4:36:DT:O3'	6:4:37:DA:P	2.77	0.42
6:4:52:DT:H2''	6:4:53:DG:C8	2.54	0.42
2:C:1087:TYR:O	2:C:1212:LEU:CD2	2.67	0.42
2:C:1292:THR:CG2	2:C:1293:VAL:N	2.81	0.42
3:D:332:LYS:O	3:D:333:GLY:O	2.37	0.42
3:D:591:ILE:HG23	3:D:604:MET:HG2	2.00	0.42
5:F:430:TYR:CE1	5:F:434:TRP:NE1	2.81	0.42
5:F:558:VAL:HG12	5:F:559:LEU:HD23	2.02	0.42
5:F:593:LYS:HE2	5:F:593:LYS:HB2	1.89	0.42
2:I:1199:LEU:CD2	2:I:1204:LEU:HD13	2.46	0.42
2:I:1271:GLY:HA2	3:J:344:GLY:HA3	2.01	0.42
2:I:1278:LEU:HD11	2:I:1286:THR:CB	2.49	0.42
2:I:838:CYS:HB2	2:I:918:LEU:CB	2.49	0.42
3:J:322:ARG:HB2	3:J:323:PRO:CD	2.39	0.42
3:J:422:LEU:HD23	3:J:422:LEU:HA	1.67	0.42
3:J:429:LEU:HG	3:J:429:LEU:H	1.69	0.42
3:J:56:LEU:HD23	3:J:56:LEU:HA	1.86	0.42
3:J:614:LEU:O	3:J:617:THR:OG1	2.33	0.42
3:J:849:LEU:HD21	3:J:855:ASP:OD2	2.19	0.42
5:L:506:SER:O	5:L:519:LEU:HD22	2.18	0.42
5:L:87:VAL:O	5:L:91:ILE:HG13	2.19	0.42
2:O:1186:VAL:HG12	2:O:1187:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1313:HIS:CE1	3:P:380:PHE:HE1	2.36	0.42
2:O:1296:ASP:HB3	2:O:1321:GLU:H	1.84	0.42
2:O:44:GLU:O	2:O:46:GLN:N	2.52	0.42
2:O:724:VAL:HG11	2:O:727:VAL:HG22	2.00	0.42
1:M:77:ASP:OD2	2:O:755:LYS:HD2	2.18	0.42
3:P:309:ASN:ND2	3:P:316:ILE:HB	2.32	0.42
3:P:703:THR:HG21	3:P:715:LYS:HE2	1.96	0.42
4:Q:59:ILE:HD13	4:Q:59:ILE:HA	1.91	0.42
8:3:13:GTP:O2A	8:3:13:GTP:H8	2.01	0.42
6:7:12:DC:C2	6:7:13:DT:C7	3.01	0.42
6:7:52:DT:H1'	6:7:53:DG:C5	2.55	0.42
6:7:58:DG:C6	6:7:59:DG:C6	3.07	0.42
1:B:207:THR:HG22	1:B:213:PRO:HG3	2.01	0.42
2:C:1122:LYS:HG3	2:C:1229:TYR:CE1	2.54	0.42
2:C:13:LYS:HZ1	2:C:1151:LEU:HB3	1.82	0.42
2:C:1292:THR:CG2	2:C:1293:VAL:H	2.28	0.42
2:C:398:SER:OG	2:C:399:ALA:N	2.52	0.42
2:C:667:LEU:HD23	2:C:667:LEU:HA	1.86	0.42
2:C:668:ILE:HA	2:C:669:PRO:HD3	1.86	0.42
3:D:1101:LEU:HD13	3:D:1122:ALA:CB	2.49	0.42
3:D:330:MET:O	3:D:337:ARG:HG2	2.19	0.42
3:D:425:ARG:NH2	3:D:464:ASP:OD2	2.52	0.42
3:D:592:VAL:CG2	3:D:592:VAL:O	2.66	0.42
2:I:32:LEU:HA	2:I:130:MET:HE1	2.00	0.42
2:I:313:ALA:O	2:I:314:ASN:HB3	2.19	0.42
2:I:634:VAL:CG1	2:I:635:THR:H	2.32	0.42
3:J:1175:LEU:HA	3:J:1175:LEU:HD13	1.62	0.42
3:J:148:GLU:CG	3:J:149:GLY:N	2.82	0.42
3:J:809:VAL:HG22	3:J:894:VAL:CG2	2.50	0.42
3:J:899:TYR:CE1	3:J:915:ILE:CG2	2.99	0.42
1:M:185:TYR:CD2	1:M:185:TYR:C	2.92	0.42
1:N:10:LYS:HA	1:N:11:PRO:HD3	1.94	0.42
2:O:1202:GLY:O	2:O:1203:ASP:HB2	2.18	0.42
2:O:1330:ILE:HG22	2:O:1335:ILE:HB	2.01	0.42
2:O:184:LEU:HA	2:O:184:LEU:HD23	1.80	0.42
2:O:230:PHE:CE1	2:O:292:ILE:HD11	2.54	0.42
2:O:515:MET:SD	2:O:527:LYS:HE3	2.59	0.42
3:P:1263:LYS:HB2	3:P:1307:LEU:HD13	1.97	0.42
3:P:205:LEU:HD23	3:P:205:LEU:HA	1.74	0.42
3:P:614:LEU:CD2	4:Q:7:GLN:CD	2.87	0.42
3:P:718:SER:O	3:P:720:ASN:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:12:DC:C2'	6:4:13:DT:OP2	2.66	0.42
5:R:386:LEU:HD22	6:7:41:DT:C2	2.55	0.42
1:A:76:GLU:HB3	1:A:81:ILE:HG13	2.01	0.42
2:C:1311:GLY:O	4:E:31:GLN:HG2	2.19	0.42
2:C:202:ARG:HH21	7:2:7:DC:H3'	1.83	0.42
2:C:764:CYS:SG	2:C:831:ILE:HD13	2.58	0.42
3:D:664:ILE:CD1	3:D:681:LYS:HE2	2.49	0.42
3:D:748:ALA:CB	3:D:941:ALA:HB3	2.49	0.42
3:D:856:ILE:HG13	3:D:875:ASN:HB3	2.02	0.42
5:F:419:PHE:CZ	5:F:421:TYR:HA	2.54	0.42
2:I:1182:ILE:CG2	2:I:1183:ALA:N	2.82	0.42
3:J:135:ILE:O	3:J:139:LEU:CD1	2.65	0.42
3:J:126:LEU:HB3	3:J:223:LEU:CD1	2.49	0.42
3:J:384:LYS:HD3	3:J:415:VAL:HG22	2.01	0.42
3:J:720:ASN:HB3	3:J:723:TYR:HB3	2.01	0.42
3:J:747:MET:HE3	3:J:775:SER:HA	2.01	0.42
3:J:806:ASP:OD1	3:J:806:ASP:N	2.51	0.42
1:M:29:GLU:HB2	1:M:30:PRO:HA	2.01	0.42
1:M:56:VAL:HG21	1:M:85:LEU:O	2.18	0.42
2:O:1337:ILE:HG23	2:O:1337:ILE:O	2.19	0.42
2:O:21:VAL:HG11	2:O:592:ARG:CD	2.39	0.42
3:P:1253:ILE:HG13	3:P:1253:ILE:H	1.51	0.42
3:P:195:GLU:H	3:P:195:GLU:HG2	1.42	0.42
3:P:1360:GLY:CA	4:Q:17:PHE:CZ	3.02	0.42
3:P:263:SER:H	5:R:507:MET:HE3	1.84	0.42
5:R:548:LEU:HA	5:R:551:LEU:HD12	2.00	0.42
1:A:43:LEU:O	1:A:47:LEU:CD1	2.67	0.42
2:C:1117:LEU:HG	2:C:1182:ILE:HD13	1.99	0.42
2:C:1065:LYS:HD2	2:C:1242:LYS:HZ1	1.84	0.42
2:C:155:VAL:HG22	2:C:405:PHE:HD2	1.80	0.42
2:C:228:VAL:HG11	2:C:239:MET:HE3	1.99	0.42
2:C:277:LEU:HD11	2:C:282:VAL:HG21	2.02	0.42
2:C:484:LEU:HG	2:C:484:LEU:H	1.41	0.42
2:C:738:GLU:HA	2:C:741:MET:HB2	2.02	0.42
2:C:753:LEU:CD1	2:C:784:ALA:CB	2.97	0.42
2:C:929:ILE:HB	2:C:1055:ALA:HB2	2.00	0.42
3:D:1271:SER:OG	3:D:1292:LEU:HD21	2.20	0.42
3:D:196:GLN:HB3	3:D:200:GLN:HE21	1.84	0.42
3:D:420:PRO:HG3	3:D:481:ARG:HB2	2.01	0.42
3:D:824:PRO:CD	3:D:878:ASP:O	2.67	0.42
5:F:333:VAL:O	5:F:333:VAL:CG1	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:46:ILE:HD12	1:G:224:LEU:HB2	2.01	0.42
1:H:28:LEU:HB3	1:H:201:LEU:HB3	2.02	0.42
2:I:1064:ASP:OD1	2:I:1239:VAL:N	2.48	0.42
2:I:1288:GLN:HB3	2:I:1315:MET:CE	2.50	0.42
2:I:277:LEU:HD12	2:I:282:VAL:HG21	2.02	0.42
2:I:389:PHE:CD2	2:I:420:LEU:HD12	2.54	0.42
3:J:1288:ALA:O	3:J:1292:LEU:HG	2.19	0.42
3:J:575:GLY:O	3:J:578:ILE:HB	2.20	0.42
3:J:643:ASP:N	3:J:643:ASP:OD1	2.51	0.42
3:J:952:VAL:HG11	3:J:984:LEU:CD1	2.50	0.42
5:L:476:ARG:HE	5:L:477:GLU:HG3	1.85	0.42
2:O:1002:LEU:HB3	2:O:1003:THR:H	1.66	0.42
2:O:1243:MET:CG	3:P:372:MET:HE2	2.48	0.42
2:O:337:PHE:CE2	2:O:343:HIS:CD2	3.07	0.42
2:O:661:VAL:CG1	2:O:662:SER:N	2.82	0.42
3:P:17:PHE:N	3:P:17:PHE:CD1	2.87	0.42
3:P:848:VAL:HG21	3:P:880:VAL:HG22	2.00	0.42
3:P:840:LEU:HD22	3:P:869:CYS:SG	2.58	0.42
5:R:115:GLY:O	5:R:118:ASP:HB2	2.20	0.42
2:C:513:GLN:HG3	2:C:526:HIS:CE1	2.54	0.42
2:C:557:ARG:HD3	2:C:587:LEU:CB	2.24	0.42
2:C:871:VAL:HG23	2:C:883:LEU:C	2.37	0.42
2:C:912:ASP:O	2:C:913:VAL:HG22	2.15	0.42
2:C:871:VAL:HG11	2:C:928:VAL:HG21	2.01	0.42
3:D:582:ILE:CG2	3:D:623:GLN:HB3	2.48	0.42
5:F:388:ILE:HG23	5:F:392:LYS:HZ2	1.84	0.42
5:F:502:LYS:HD2	5:F:502:LYS:HA	1.79	0.42
3:D:163:GLU:CD	5:F:81:ALA:CB	2.88	0.42
2:I:1278:LEU:HD12	2:I:1287:LEU:HD13	2.01	0.42
2:I:204:LEU:HB3	2:I:205:PRO:HD2	2.00	0.42
2:I:446:ASP:N	2:I:446:ASP:OD1	2.52	0.42
2:I:717:VAL:CG1	2:I:718:ALA:N	2.82	0.42
2:I:810:TYR:HE2	2:I:1078:LYS:CD	2.32	0.42
3:J:802:ASP:CG	3:J:1325:PHE:HB2	2.39	0.42
3:J:259:ARG:HH22	7:5:21:DG:C5'	2.33	0.42
2:I:1109:ILE:CD1	3:J:740:LEU:HD13	2.47	0.42
1:M:136:GLU:HG3	1:M:137:ASN:N	2.35	0.42
1:M:61:ILE:HG12	1:M:142:MET:SD	2.59	0.42
1:N:57:THR:OG1	1:N:147:GLN:HB2	2.20	0.42
2:O:1238:LEU:HD23	2:O:1238:LEU:HA	1.77	0.42
2:O:672:GLU:HB2	2:O:673:HIS:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1271:SER:CB	3:P:1297:LYS:NZ	2.82	0.42
3:P:373:ALA:HA	3:P:376:LEU:HD11	1.82	0.42
3:P:499:ILE:HG22	3:P:500:ILE:HG12	2.01	0.42
6:1:26:DT:H2"	6:1:27:DC:OP2	2.20	0.42
6:4:37:DA:OP2	6:4:37:DA:H8	2.03	0.42
2:O:1261:GLY:HA2	7:8:17:DG:OP1	2.19	0.42
1:A:129:VAL:CG1	1:A:130:ILE:N	2.80	0.42
1:A:31:LEU:HD13	1:A:36:GLY:HA2	2.02	0.42
1:B:168:ILE:CG2	1:B:169:GLY:N	2.83	0.42
2:C:1303:LYS:O	2:C:1307:ASN:ND2	2.53	0.42
2:C:698:PRO:HD3	2:C:794:LEU:O	2.19	0.42
2:C:888:THR:OG1	2:C:916:SER:HB3	2.19	0.42
2:C:936:ARG:NH1	5:F:495:ARG:NE	2.64	0.42
3:D:144:TYR:CD2	3:D:180:MET:HB2	2.55	0.42
3:D:232:ASN:HA	3:D:236:TRP:HZ3	1.85	0.42
2:C:1294:LYS:CD	3:D:347:VAL:CG1	2.97	0.42
5:F:217:ALA:O	5:F:221:PHE:HD1	2.03	0.42
1:G:191:ARG:HH21	3:P:1375:ALA:CB	2.32	0.42
2:I:960:LEU:CD1	2:I:1028:LYS:HB3	2.45	0.42
2:I:672:GLU:CG	2:I:1187:PHE:HA	2.50	0.42
2:I:225:PHE:HE2	2:I:347:ILE:HB	1.83	0.42
2:I:519:ASN:N	2:I:519:ASN:OD1	2.51	0.42
3:J:1101:LEU:HD13	3:J:1107:VAL:HG22	2.01	0.42
3:J:139:LEU:HG	3:J:139:LEU:H	1.44	0.42
3:J:974:VAL:HG11	3:J:1028:ILE:CG2	2.44	0.42
3:J:983:LYS:HA	3:J:994:SER:HA	2.01	0.42
5:L:399:LEU:O	5:L:400:GLN:CB	2.64	0.42
5:L:551:LEU:CD1	5:L:559:LEU:HD12	2.50	0.42
1:N:83:LEU:CD1	1:N:86:LYS:HE3	2.50	0.42
2:O:155:VAL:CG2	2:O:405:PHE:HA	2.48	0.42
2:O:448:LEU:HD23	2:O:448:LEU:HA	1.56	0.42
2:O:812:PHE:CD2	2:O:813:GLU:HG3	2.55	0.42
3:P:1306:LEU:C	3:P:1307:LEU:HG	2.39	0.42
3:P:1314:LEU:N	3:P:1314:LEU:HD23	2.34	0.42
3:P:390:LEU:HG	3:P:390:LEU:H	1.64	0.42
2:O:548:ARG:HH12	3:P:788:LEU:HD11	1.76	0.42
3:P:78:LEU:CD2	3:P:78:LEU:H	2.28	0.42
3:P:823:THR:HB	3:P:824:PRO:CD	2.50	0.42
3:P:902:ASP:OD2	3:P:905:ARG:HB2	2.20	0.42
3:P:93:THR:HB	3:P:94:GLN:H	1.62	0.42
3:P:950:ILE:HG21	3:P:995:TYR:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:959:LYS:HZ3	3:P:985:ILE:HD11	1.84	0.42
5:R:273:MET:HA	5:R:276:MET:HB2	2.02	0.42
1:A:86:LYS:CE	1:A:173:VAL:CG1	2.97	0.42
2:C:1294:LYS:HZ3	3:D:349:TYR:HB2	1.84	0.42
2:C:468:LEU:O	2:C:471:VAL:HB	2.19	0.42
2:C:525:THR:HG23	2:C:526:HIS:N	2.35	0.42
3:D:1132:LYS:HB3	3:D:1133:ASP:H	1.60	0.42
3:D:1215:GLU:HB2	3:D:1220:ILE:HD11	2.02	0.42
3:D:245:LEU:HD11	3:D:249:LEU:HD13	2.02	0.42
3:D:57:PHE:HD1	3:D:98:ARG:HH21	1.67	0.42
3:D:587:LEU:CD2	3:D:612:LEU:HD21	2.48	0.42
3:D:823:THR:O	3:D:838:ARG:NH1	2.51	0.42
3:D:75:TYR:HE2	3:D:85:CYS:HG	1.57	0.42
3:D:886:VAL:HG21	3:D:1230:THR:CG2	2.50	0.42
5:F:386:LEU:HA	6:1:41:DT:O4'	2.19	0.42
2:I:185:ASP:HB2	2:I:197:ARG:HB2	2.02	0.42
2:I:269:ILE:HG22	2:I:274:ILE:HD11	2.02	0.42
2:I:589:THR:CG2	2:I:590:PRO:HD2	2.50	0.42
3:J:1109:LEU:HD22	3:J:1113:VAL:HG11	2.02	0.42
3:J:885:VAL:HG11	3:J:1255:VAL:HA	2.01	0.42
3:J:526:VAL:C	3:J:527:LEU:HD23	2.40	0.42
5:L:387:VAL:HG23	5:L:435:ILE:HD13	2.01	0.42
2:O:319:LEU:HG	2:O:319:LEU:H	1.46	0.42
2:O:230:PHE:O	2:O:332:ARG:HA	2.20	0.42
2:O:522:SER:O	2:O:525:THR:HG22	2.19	0.42
2:O:761:GLN:O	2:O:762:ASN:HB2	2.19	0.42
3:P:194:LEU:O	3:P:198:CYS:SG	2.76	0.42
3:P:437:PHE:O	3:P:439:PRO:HD3	2.20	0.42
5:R:429:THR:HA	6:7:40:DA:N7	2.35	0.42
5:L:432:THR:OG1	6:4:40:DA:N7	2.49	0.42
1:A:149:GLY:HA3	1:A:177:TYR:CD2	2.55	0.42
1:B:193:GLU:O	1:B:194:GLN:CB	2.67	0.42
1:B:48:LEU:HD23	1:B:48:LEU:N	2.34	0.42
2:C:13:LYS:HZ3	2:C:1151:LEU:HB3	1.82	0.42
2:C:153:PRO:HB2	2:C:401:GLY:HA2	2.02	0.42
2:C:839:VAL:O	2:C:886:LYS:NZ	2.47	0.42
3:D:1286:LYS:O	3:D:1289:ASN:HB2	2.20	0.42
3:D:364:HIS:CD2	3:D:364:HIS:H	2.37	0.42
5:F:137:TYR:CD1	5:F:138:PRO:HD2	2.55	0.42
1:H:185:TYR:CD2	1:H:185:TYR:O	2.73	0.42
2:I:939:VAL:CG2	2:I:1047:LEU:HD22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1109:ILE:HD13	2:I:1109:ILE:N	2.35	0.42
2:I:1323:PHE:HD2	3:J:1352:ILE:O	2.03	0.42
3:J:262:THR:O	5:L:507:MET:HB3	2.19	0.42
3:J:456:ALA:HB2	3:J:499:ILE:HG21	2.00	0.42
3:J:952:VAL:CG1	3:J:984:LEU:CD1	2.96	0.42
2:O:1313:HIS:N	2:O:1313:HIS:CD2	2.88	0.42
2:O:207:THR:HA	2:O:210:LEU:HD12	2.01	0.42
2:O:422:LYS:HG2	2:O:422:LYS:H	1.57	0.42
2:O:667:LEU:CD2	2:O:705:GLU:CD	2.87	0.42
3:P:1138:LEU:CD2	3:P:1139:PRO:HD3	2.50	0.42
3:P:1356:LEU:HD13	3:P:1365:TYR:CD1	2.55	0.42
3:P:268:LEU:HD21	3:P:324:LEU:CD1	2.19	0.42
7:2:12:DG:HO3'	7:2:13:DA:P	2.43	0.42
6:4:21:DC:O2	7:5:43:DG:N2	2.53	0.42
1:A:67:GLU:HG2	1:A:67:GLU:H	1.54	0.42
1:B:97:GLU:OE2	1:B:147:GLN:NE2	2.52	0.42
2:C:672:GLU:HG3	2:C:1187:PHE:HA	1.99	0.42
2:C:122:VAL:HG21	2:C:493:ILE:CD1	2.50	0.42
2:C:1323:PHE:O	2:C:1326:LEU:HB3	2.19	0.42
2:C:810:TYR:CE1	3:D:359:PRO:CG	3.03	0.42
3:D:255:LEU:HD22	3:D:256:ASP:N	2.34	0.42
3:D:359:PRO:O	3:D:626:TYR:CE1	2.73	0.42
3:D:518:VAL:O	3:D:520:ALA:N	2.53	0.42
3:D:548:VAL:CG1	3:D:549:LYS:N	2.82	0.42
3:D:587:LEU:HD23	3:D:587:LEU:HA	1.63	0.42
3:D:759:ILE:O	3:D:759:ILE:HG22	2.19	0.42
1:G:16:ILE:HG21	1:G:214:GLU:HG3	2.02	0.42
1:H:207:THR:HG23	1:H:209:GLY:H	1.85	0.42
2:I:100:LEU:HD12	2:I:122:VAL:CB	2.45	0.42
2:I:428:VAL:HG23	2:I:428:VAL:H	1.57	0.42
3:J:1077:ALA:HB2	3:J:1100:PHE:CD1	2.55	0.42
3:J:930:LEU:HB2	3:J:1134:ILE:HD11	2.01	0.42
3:J:268:LEU:HB2	3:J:306:LEU:HD12	2.01	0.42
4:K:64:LEU:HA	4:K:64:LEU:HD23	1.82	0.42
2:O:1270:PHE:HB2	3:P:347:VAL:CG2	2.50	0.42
2:O:32:LEU:HD23	2:O:130:MET:HE3	2.01	0.42
2:O:220:ILE:H	2:O:220:ILE:HG13	1.70	0.42
2:O:558:VAL:HG13	2:O:559:CYS:O	2.19	0.42
2:O:668:ILE:HA	2:O:669:PRO:HD3	1.87	0.42
3:P:394:ILE:H	3:P:394:ILE:HG13	1.26	0.42
3:P:782:GLY:HA3	3:P:935:PHE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:99:ARG:O	3:P:99:ARG:CG	2.67	0.42
1:A:182:ARG:C	1:A:183:ILE:HG22	2.40	0.41
1:A:26:VAL:HG21	1:A:217:ILE:HD11	2.02	0.41
2:C:1112:ILE:HG22	2:C:1113:LEU:HD23	2.02	0.41
2:C:151:ARG:HG3	2:C:151:ARG:H	1.62	0.41
2:C:202:ARG:HB2	2:C:369:MET:HE1	2.00	0.41
2:C:873:ILE:HG13	2:C:873:ILE:H	1.48	0.41
3:D:1036:ARG:HD2	3:D:1081:VAL:HG11	2.02	0.41
2:C:368:ARG:CD	5:F:90:GLU:HG2	2.47	0.41
1:G:47:LEU:CD1	1:G:183:ILE:HD13	2.44	0.41
1:H:31:LEU:HD23	1:H:31:LEU:HA	1.78	0.41
2:I:1284:ALA:CB	3:J:1357:ILE:HD12	2.50	0.41
3:J:1257:VAL:HA	3:J:1260:MET:CE	2.49	0.41
3:J:644:MET:HB3	3:J:741:ALA:HB2	2.02	0.41
5:L:250:LEU:HD23	5:L:250:LEU:HA	1.92	0.41
5:L:374:ARG:HB2	5:L:374:ARG:CZ	2.48	0.41
5:L:540:LEU:HD13	5:L:540:LEU:C	2.41	0.41
1:M:67:GLU:O	1:M:78:ILE:HG21	2.19	0.41
1:N:44:ARG:HA	1:N:47:LEU:HD12	2.02	0.41
2:O:123:TYR:CZ	2:O:125:GLY:HA2	2.55	0.41
2:O:1288:GLN:HA	2:O:1291:LEU:HD12	2.02	0.41
2:O:170:VAL:HG12	2:O:172:TYR:CZ	2.55	0.41
2:O:520:PRO:O	2:O:524:ILE:CG1	2.59	0.41
2:O:912:ASP:C	2:O:913:VAL:HG23	2.41	0.41
3:P:1101:LEU:HD11	3:P:1122:ALA:HB2	2.01	0.41
3:P:1180:VAL:HG23	3:P:1181:ASP:N	2.35	0.41
3:P:1231:ARG:O	3:P:1234:VAL:HB	2.19	0.41
5:R:144:LEU:HD12	5:R:165:PHE:CE2	2.55	0.41
5:R:395:THR:HG22	5:R:404:LEU:HD13	2.01	0.41
6:1:57:DC:H2"	6:1:58:DG:H8	1.85	0.41
1:A:36:GLY:HA2	1:A:201:LEU:HD13	2.01	0.41
1:B:228:LEU:HA	1:B:231:PHE:HD2	1.85	0.41
1:B:85:LEU:HD21	1:B:130:ILE:HG23	2.01	0.41
1:A:45:ARG:HA	2:C:1083:GLU:HG2	2.02	0.41
2:C:196:VAL:CG2	2:C:206:ALA:HA	2.50	0.41
2:C:392:GLU:HG3	2:C:393:ASP:N	2.35	0.41
2:C:616:ILE:HG23	2:C:653:MET:HA	2.02	0.41
2:C:556:GLY:HA2	2:C:659:GLN:O	2.20	0.41
3:D:1159:ILE:HG22	3:D:1160:SER:N	2.30	0.41
3:D:1226:VAL:O	3:D:1229:VAL:CG1	2.67	0.41
3:D:268:LEU:HA	3:D:268:LEU:HD23	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1268:GLN:NE2	3:D:351:GLY:CA	2.83	0.41
3:D:530:PRO:HD3	3:D:552:ILE:CD1	2.50	0.41
2:C:809:GLY:HA3	3:D:629:PHE:CD1	2.55	0.41
3:D:706:VAL:HG13	3:D:714:GLU:O	2.20	0.41
3:D:875:ASN:O	3:D:876:SER:HB2	2.19	0.41
5:F:408:GLY:O	5:F:435:ILE:HG23	2.21	0.41
1:H:152:TYR:HE1	1:H:176:CYS:SG	2.42	0.41
2:I:1112:ILE:CG2	3:J:641:ILE:HG12	2.49	0.41
2:I:275:ARG:O	2:I:275:ARG:HG2	2.20	0.41
2:I:676:ALA:HA	2:I:679:ALA:HB3	2.02	0.41
2:I:517:GLN:HB2	2:I:761:GLN:OE1	2.21	0.41
3:J:1040:MET:HE3	3:J:1061:VAL:HG22	2.02	0.41
3:J:1318:SER:HG	3:J:1321:SER:CB	2.31	0.41
3:J:148:GLU:CG	3:J:149:GLY:H	2.33	0.41
3:J:505:ASP:N	3:J:505:ASP:OD1	2.52	0.41
3:J:1360:GLY:HA2	4:K:17:PHE:CD2	2.55	0.41
1:N:52:PRO:HA	1:N:150:ARG:HA	2.02	0.41
1:N:61:ILE:HD12	1:N:64:VAL:HG21	2.01	0.41
2:O:4:SER:HB3	2:O:778:GLU:OE1	2.20	0.41
2:O:559:CYS:SG	2:O:560:PRO:HD2	2.61	0.41
2:O:761:GLN:O	2:O:762:ASN:CB	2.68	0.41
2:O:788:SER:OG	2:O:795:ALA:O	2.29	0.41
2:O:850:ILE:HG23	2:O:885:GLY:O	2.21	0.41
3:P:1032:SER:O	3:P:1080:ILE:CG2	2.68	0.41
3:P:950:ILE:HG21	3:P:995:TYR:CD1	2.55	0.41
4:Q:5:THR:HG22	4:Q:7:GLN:CB	2.51	0.41
5:R:364:ARG:O	5:R:367:ILE:HB	2.21	0.41
7:2:24:DT:C2'	7:2:25:DA:OP1	2.60	0.41
5:F:573:LEU:CB	7:2:46:DG:OP2	2.59	0.41
5:R:464:ASN:CB	7:8:25:DA:H62	2.33	0.41
1:B:48:LEU:HD22	1:B:180:VAL:HB	2.01	0.41
2:C:1087:TYR:O	2:C:1212:LEU:HD22	2.19	0.41
2:C:13:LYS:NZ	2:C:1149:TYR:O	2.53	0.41
2:C:1312:ASN:HD21	2:C:1314:GLN:CB	2.33	0.41
2:C:175:ARG:HG2	2:C:185:ASP:OD1	2.20	0.41
2:C:73:TYR:C	2:C:73:TYR:CD1	2.93	0.41
3:D:1101:LEU:HD13	3:D:1107:VAL:HG22	2.03	0.41
3:D:116:PHE:O	3:D:124:ILE:HG13	2.20	0.41
3:D:130:MET:HB3	3:D:130:MET:HE3	1.92	0.41
3:D:555:TYR:HB2	3:D:586:GLY:N	2.35	0.41
2:C:1225:VAL:HG13	3:D:638:SER:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:137:TYR:CG	5:F:138:PRO:HD2	2.55	0.41
1:H:97:GLU:CG	1:H:147:GLN:HE21	2.33	0.41
2:I:796:LEU:HB3	2:I:1233:LEU:HD11	2.02	0.41
2:I:325:LEU:HA	2:I:325:LEU:HD23	1.93	0.41
3:J:1179:PRO:HB2	3:J:1182:GLY:N	2.34	0.41
3:J:1177:ILE:HG13	3:J:1186:TYR:O	2.20	0.41
3:J:527:LEU:HG	3:J:548:VAL:HG12	2.02	0.41
3:J:53:ARG:O	3:J:58:CYS:CB	2.58	0.41
3:J:865:HIS:CE1	3:J:901:ARG:NH2	2.88	0.41
2:O:1148:ALA:O	2:O:1151:LEU:HB2	2.19	0.41
2:O:428:VAL:HG12	2:O:429:MET:CG	2.34	0.41
2:O:697:LYS:NZ	2:O:1181:PRO:HG3	2.35	0.41
3:P:146:VAL:CG2	3:P:154:LEU:CD1	2.86	0.41
3:P:307:LEU:HD23	3:P:327:LEU:CD1	2.51	0.41
4:Q:29:GLN:HB3	4:Q:35:LYS:HG3	2.02	0.41
5:R:333:VAL:HG22	5:R:336:GLU:HB2	2.02	0.41
6:4:18:DA:C2	6:4:19:DT:C2	3.07	0.41
6:7:45:DT:H2'	6:7:46:DG:O4'	2.21	0.41
7:8:51:DG:N9	7:8:52:DT:H71	2.34	0.41
2:C:181:GLY:HA3	2:C:395:TYR:CD1	2.55	0.41
2:C:412:GLU:HG3	2:C:413:GLU:N	2.36	0.41
2:C:603:ILE:H	2:C:603:ILE:HG13	1.55	0.41
3:D:1173:ARG:H	3:D:1173:ARG:HG2	1.56	0.41
3:D:1175:LEU:HD12	3:D:1175:LEU:HA	1.83	0.41
3:D:1156:LEU:HB2	3:D:1223:LEU:HD12	2.03	0.41
3:D:360:TYR:CE1	3:D:361:LEU:CD2	3.02	0.41
3:D:708:ASN:OD1	3:D:713:GLU:HG2	2.21	0.41
3:D:975:ILE:HD13	3:D:980:THR:HG21	2.02	0.41
5:F:389:SER:HA	5:F:392:LYS:HD2	2.00	0.41
3:D:163:GLU:CD	5:F:81:ALA:HB3	2.40	0.41
1:G:42:ALA:HA	1:H:38:THR:HG22	1.96	0.41
2:I:1156:ARG:HH12	2:I:1157:GLN:HB2	1.86	0.41
2:I:1284:ALA:HA	3:J:1357:ILE:HD12	2.02	0.41
2:I:1294:LYS:HB3	3:J:347:VAL:CG1	2.50	0.41
2:I:524:ILE:HD11	2:I:712:SER:CB	2.44	0.41
2:I:871:VAL:HG21	2:I:883:LEU:HA	1.98	0.41
3:J:1343:GLU:O	3:J:1344:LEU:HB2	2.21	0.41
3:J:502:PRO:HB3	3:J:506:VAL:CG1	2.49	0.41
5:L:333:VAL:HG22	5:L:333:VAL:O	2.20	0.41
2:O:112:GLY:C	2:O:114:VAL:N	2.74	0.41
2:O:663:VAL:O	2:O:666:SER:OG	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:802:VAL:HG22	2:O:1096:ILE:HB	2.02	0.41
3:P:270:ARG:HA	3:P:273:ILE:HD12	2.01	0.41
3:P:509:GLY:O	3:P:513:MET:HG3	2.20	0.41
5:R:279:ARG:O	5:R:283:GLN:HG2	2.19	0.41
6:4:53:DG:C2'	6:4:54:DA:OP2	2.50	0.41
1:A:107:ILE:HD11	1:A:136:GLU:HB3	2.02	0.41
2:C:1117:LEU:HG	2:C:1182:ILE:CD1	2.51	0.41
2:C:1312:ASN:ND2	2:C:1314:GLN:HB3	2.35	0.41
2:C:862:LEU:HA	2:C:865:LEU:HD12	2.02	0.41
3:D:1062:LEU:HD22	3:D:1066:GLU:OE2	2.20	0.41
3:D:1229:VAL:O	3:D:1233:ILE:HG13	2.19	0.41
3:D:624:ILE:H	3:D:624:ILE:HG13	1.48	0.41
3:D:795:TYR:CD1	7:2:12:DG:H5''	2.52	0.41
2:I:1061:GLN:CB	2:I:1062:PRO:CD	2.85	0.41
2:I:149:LEU:HD21	2:I:451:ARG:NH2	2.34	0.41
2:I:558:VAL:HG22	2:I:575:LEU:HA	2.02	0.41
2:I:758:ARG:HA	2:I:833:ILE:HD12	2.03	0.41
3:J:521:LYS:CD	3:J:543:SER:HB2	2.51	0.41
3:J:965:SER:O	3:J:966:VAL:HB	2.21	0.41
4:K:6:VAL:HG12	4:K:9:ALA:CB	2.51	0.41
2:I:375:PRO:HG3	5:L:103:ARG:HG3	2.01	0.41
1:M:59:VAL:HG13	1:M:144:ILE:HG12	2.02	0.41
3:P:1101:LEU:CD1	3:P:1122:ALA:HB2	2.50	0.41
6:7:29:DC:H2''	6:7:30:DG:H8	1.84	0.41
1:A:149:GLY:HA3	1:A:177:TYR:CE2	2.56	0.41
1:B:201:LEU:HG	1:B:203:ILE:HG13	2.02	0.41
2:C:1288:GLN:HA	2:C:1291:LEU:HD12	2.02	0.41
2:C:1322:SER:O	2:C:1325:VAL:HB	2.21	0.41
2:C:204:LEU:HD13	2:C:208:ILE:HD13	2.03	0.41
2:C:448:LEU:HA	2:C:448:LEU:HD23	1.77	0.41
2:C:753:LEU:HD11	2:C:784:ALA:CB	2.50	0.41
2:C:806:PRO:HA	2:C:811:ASN:HD21	1.86	0.41
3:D:644:MET:HG3	3:D:644:MET:H	1.64	0.41
3:D:926:PRO:HD2	3:D:927:GLY:H	1.85	0.41
3:D:999:TYR:HE2	3:D:1027:VAL:HA	1.84	0.41
5:F:411:GLY:HA3	5:F:435:ILE:HA	2.02	0.41
1:G:168:ILE:H	1:G:168:ILE:HG13	1.72	0.41
2:I:1042:LEU:CD1	2:I:1049:ILE:HD11	2.28	0.41
2:I:1200:LYS:CE	2:I:1206:THR:HG21	2.37	0.41
2:I:240:GLU:HG2	2:I:284:LEU:CD2	2.50	0.41
2:I:275:ARG:CG	2:I:275:ARG:NH1	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:906:PHE:CE2	5:L:607:LEU:HB3	2.56	0.41
3:J:1162:ILE:HD11	3:J:1180:VAL:CG1	2.50	0.41
3:J:130:MET:HG2	3:J:135:ILE:CG1	2.48	0.41
3:J:188:LEU:O	3:J:188:LEU:HG	2.19	0.41
3:J:334:LYS:NZ	7:5:13:DA:OP1	2.54	0.41
3:J:471:PRO:HB2	3:J:476:ALA:CB	2.47	0.41
1:N:100:LEU:HD21	1:N:118:ASP:HB2	2.03	0.41
1:M:152:TYR:CE1	2:O:824:GLN:HA	2.56	0.41
2:O:888:THR:O	2:O:914:LYS:N	2.54	0.41
3:P:322:ARG:NH1	3:P:323:PRO:O	2.54	0.41
5:R:387:VAL:HG22	5:R:435:ILE:HD13	2.03	0.41
6:7:43:DT:O4'	6:7:43:DT:OP2	2.37	0.41
1:A:11:PRO:HA	1:A:30:PRO:HD2	2.02	0.41
1:B:15:ASP:CB	1:B:27:THR:OG1	2.68	0.41
2:C:1326:LEU:O	2:C:1330:ILE:HG13	2.20	0.41
2:C:528:ARG:HD2	2:C:663:VAL:HG23	1.95	0.41
3:D:1163:VAL:HG12	3:D:1164:SER:H	1.83	0.41
3:D:833:GLU:CD	3:D:1242:ARG:NE	2.74	0.41
3:D:201:LEU:HD21	3:D:220:ARG:NH1	2.36	0.41
2:C:1101:LEU:CD2	3:D:505:ASP:OD1	2.64	0.41
1:H:102:LEU:HD12	1:H:103:ASN:H	1.84	0.41
1:G:45:ARG:CD	1:H:38:THR:HG23	2.50	0.41
2:I:167:SER:O	3:J:1064:SER:CB	2.53	0.41
2:I:558:VAL:CG1	2:I:559:CYS:N	2.84	0.41
2:I:21:VAL:HG21	2:I:592:ARG:NH1	2.35	0.41
2:I:801:ARG:HG3	2:I:1229:TYR:CZ	2.56	0.41
3:J:952:VAL:CG2	3:J:1017:VAL:CG1	2.98	0.41
3:J:123:ARG:HD3	3:J:123:ARG:HA	1.77	0.41
3:J:128:LEU:HD11	3:J:189:LEU:HD21	2.03	0.41
3:J:148:GLU:HG2	3:J:149:GLY:N	2.36	0.41
3:J:268:LEU:O	3:J:272:VAL:HG23	2.20	0.41
3:J:456:ALA:HB2	3:J:499:ILE:CG2	2.50	0.41
2:I:1073:LYS:HE3	3:J:462:ASP:HB2	2.01	0.41
3:J:507:VAL:HG23	3:J:507:VAL:H	1.59	0.41
3:J:537:TYR:CE2	3:J:544:LEU:HD21	2.56	0.41
5:L:364:ARG:O	5:L:367:ILE:HB	2.20	0.41
5:L:572:THR:HB	7:5:45:DT:H5''	2.02	0.41
1:N:95:LYS:HZ2	1:N:120:ASP:CG	2.23	0.41
2:O:1021:LEU:HA	2:O:1021:LEU:HD23	1.81	0.41
3:P:111:THR:HG22	3:P:112:ALA:N	2.31	0.41
3:P:1177:ILE:O	3:P:1179:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:982:LEU:O	3:P:983:LYS:HG3	2.21	0.41
6:4:44:DG:H4'	6:4:44:DG:OP1	2.20	0.41
1:A:135:ASP:HB3	1:A:138:ALA:HB2	2.02	0.41
1:B:82:LEU:CD2	1:B:173:VAL:CG2	2.99	0.41
2:C:167:SER:HA	3:D:1064:SER:HB2	2.01	0.41
2:C:589:THR:HB	2:C:591:TYR:CZ	2.55	0.41
2:C:635:THR:HG23	2:C:635:THR:O	2.21	0.41
2:C:912:ASP:C	2:C:913:VAL:CG2	2.86	0.41
2:C:926:GLY:HA3	2:C:1056:VAL:HA	2.02	0.41
3:D:1145:PHE:HB3	3:D:1309:ILE:HD11	2.02	0.41
3:D:1250:ASP:OD1	3:D:1250:ASP:N	2.53	0.41
3:D:377:PHE:O	3:D:381:ILE:HG13	2.21	0.41
3:D:513:MET:CE	3:D:579:LEU:HD21	2.51	0.41
3:D:740:LEU:O	3:D:762:ASN:HB2	2.20	0.41
4:E:16:ARG:CG	4:E:16:ARG:NH1	2.73	0.41
5:F:126:GLY:O	5:F:129:GLN:HB3	2.21	0.41
5:F:373:ARG:HB3	5:F:373:ARG:HE	1.42	0.41
5:F:119:ILE:HG23	5:F:375:ALA:HB1	2.02	0.41
5:F:92:GLY:O	5:F:93:ARG:CG	2.69	0.41
1:G:228:LEU:HD11	1:H:224:LEU:CD1	2.40	0.41
1:H:212:ASP:CG	1:H:213:PRO:HD2	2.41	0.41
1:H:224:LEU:HG	1:H:225:ALA:N	2.36	0.41
2:I:12:ARG:HG3	2:I:1181:PRO:O	2.21	0.41
2:I:1288:GLN:HB3	2:I:1315:MET:HE3	2.02	0.41
2:I:1328:LYS:HD3	2:I:1328:LYS:HA	1.82	0.41
2:I:971:LEU:O	2:I:975:ILE:HG13	2.21	0.41
3:J:914:ALA:HB2	3:J:1359:ALA:HB1	2.03	0.41
3:J:332:LYS:O	3:J:333:GLY:O	2.39	0.41
3:J:514:THR:O	3:J:576:ARG:CZ	2.68	0.41
3:J:519:ASN:HA	3:J:523:GLU:CB	2.41	0.41
3:J:526:VAL:HA	3:J:549:LYS:O	2.21	0.41
3:J:649:LYS:O	3:J:649:LYS:CG	2.69	0.41
4:K:31:GLN:OE1	4:K:46:THR:HG21	2.21	0.41
4:K:6:VAL:HG12	4:K:9:ALA:HB3	2.03	0.41
5:L:402:LEU:HD23	5:L:402:LEU:N	2.36	0.41
1:M:38:THR:CG2	1:N:42:ALA:HB1	2.50	0.41
1:M:95:LYS:HD2	1:M:95:LYS:H	1.86	0.41
2:O:39:ILE:HD13	2:O:75:LEU:CD1	2.50	0.41
2:O:563:THR:CG2	2:O:680:LEU:HD11	2.50	0.41
2:O:805:MET:HE2	2:O:806:PRO:O	2.20	0.41
3:P:1291:GLU:O	3:P:1295:ASN:CG	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1271:SER:OG	3:P:1297:LYS:HD2	2.21	0.41
3:P:268:LEU:O	3:P:272:VAL:HG23	2.20	0.41
3:P:428:THR:O	3:P:428:THR:HG22	2.21	0.41
3:P:474:LEU:HG	3:P:474:LEU:H	1.50	0.41
3:P:855:ASP:O	3:P:857:LEU:HG	2.20	0.41
5:R:460:ILE:O	5:R:463:LEU:HG	2.21	0.41
7:8:18:DT:C2'	7:8:19:DA:C5'	2.95	0.41
1:A:100:LEU:HD23	1:A:100:LEU:HA	1.58	0.41
1:B:75:GLN:HG3	1:B:134:THR:CG2	2.51	0.41
2:C:131:THR:HG1	2:C:135:THR:H	1.62	0.41
2:C:262:TYR:CE1	2:C:276:GLN:NE2	2.89	0.41
2:C:592:ARG:HG3	2:C:653:MET:HE2	2.03	0.41
2:C:663:VAL:H	2:C:663:VAL:HG23	1.54	0.41
2:C:870:ILE:HG21	2:C:944:ARG:HE	1.86	0.41
2:C:996:ARG:C	2:C:997:TRP:CD1	2.92	0.41
3:D:388:ARG:HB3	3:D:390:LEU:HG	2.03	0.41
5:F:419:PHE:HA	5:F:430:TYR:HE2	1.86	0.41
5:F:586:ARG:O	5:F:590:ILE:HG13	2.20	0.41
1:G:61:ILE:HG23	1:G:142:MET:HB3	2.02	0.41
1:G:234:LEU:HD23	1:H:13:LEU:HB3	2.02	0.41
1:H:156:SER:O	1:H:160:HIS:HB2	2.21	0.41
2:I:170:VAL:HG11	2:I:172:TYR:OH	2.21	0.41
2:I:806:PRO:HG3	3:J:637:ALA:HB3	2.03	0.41
3:J:205:LEU:HG	3:J:217:LEU:HD13	2.03	0.41
3:J:227:PHE:CD1	3:J:232:ASN:O	2.74	0.41
4:K:27:ALA:HA	4:K:30:MET:SD	2.61	0.41
5:L:470:MET:SD	5:L:486:ARG:HD2	2.60	0.41
1:M:215:GLU:HG2	1:M:219:ARG:HD2	2.03	0.41
1:M:232:VAL:CG2	1:N:221:ALA:HB3	2.51	0.41
1:M:67:GLU:O	1:M:78:ILE:CG2	2.69	0.41
1:N:107:ILE:HG13	1:N:136:GLU:HB3	2.03	0.41
2:O:528:ARG:HD2	2:O:663:VAL:HG23	2.03	0.41
2:O:563:THR:O	2:O:680:LEU:HD11	2.21	0.41
3:P:1101:LEU:HD21	3:P:1122:ALA:CB	2.38	0.41
3:P:212:THR:HA	3:P:215:LYS:CE	2.47	0.41
3:P:233:LYS:HB3	3:P:236:TRP:NE1	2.36	0.41
3:P:418:GLU:OE1	4:Q:48:VAL:HG21	2.21	0.41
3:P:560:ASN:N	3:P:560:ASN:OD1	2.54	0.41
5:R:392:LYS:O	5:R:395:THR:OG1	2.34	0.41
5:F:102:MET:HB3	6:1:42:DG:N2	2.35	0.41
1:A:77:ASP:OD1	2:C:755:LYS:NZ	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1128:ILE:HG22	2:C:1129:ASN:N	2.36	0.41
2:C:96:LEU:CB	2:C:127:ILE:HD11	2.40	0.41
2:C:499:SER:HB3	2:C:503:LYS:HZ2	1.85	0.41
2:C:672:GLU:HG3	2:C:1187:PHE:CD1	2.56	0.41
3:D:114:ILE:HD11	3:D:308:ASP:HB3	2.03	0.41
3:D:361:LEU:O	3:D:626:TYR:OH	2.35	0.41
3:D:449:LEU:HA	3:D:449:LEU:HD12	1.79	0.41
3:D:510:LEU:HD23	3:D:510:LEU:HA	1.75	0.41
3:D:599:LYS:CG	3:D:600:ALA:H	2.34	0.41
3:D:768:ASN:OD1	3:D:768:ASN:C	2.58	0.41
1:H:86:LYS:CE	1:H:174:ASP:HB2	2.51	0.41
2:I:500:ALA:HB1	7:5:23:DT:H5'	2.02	0.41
2:I:819:SER:O	2:I:822:VAL:HG23	2.21	0.41
3:J:185:ILE:O	3:J:189:LEU:HD12	2.20	0.41
3:J:322:ARG:NE	5:L:510:PRO:HD3	2.35	0.41
3:J:369:PRO:CD	3:J:447:ILE:HG23	2.49	0.41
3:J:537:TYR:CG	3:J:544:LEU:HD21	2.56	0.41
5:L:593:LYS:CG	5:L:597:LYS:HE2	2.51	0.41
1:M:11:PRO:HB3	1:M:31:LEU:HD23	2.02	0.41
1:M:26:VAL:HG11	1:M:217:ILE:HD11	2.03	0.41
1:M:174:ASP:OD2	2:O:1059:ARG:NH1	2.54	0.41
2:O:403:MET:HE2	2:O:404:LYS:N	2.36	0.41
2:O:389:PHE:HB3	2:O:420:LEU:HD12	2.02	0.41
3:P:1154:ALA:HA	3:P:1211:SER:HB2	2.03	0.41
3:P:1284:ARG:HG2	3:P:1287:ILE:HD12	2.01	0.41
3:J:711:GLY:O	3:P:1302:TYR:CZ	2.74	0.41
3:P:166:LEU:HD23	3:P:169:LEU:HD23	2.01	0.41
3:P:246:PRO:HA	3:P:247:PRO:HD3	1.83	0.41
2:O:1286:THR:N	3:P:479:GLU:OE2	2.47	0.41
5:R:559:LEU:HD23	5:R:559:LEU:HA	1.92	0.41
7:8:16:DC:H2'	7:8:17:DG:H5'	2.03	0.41
1:A:67:GLU:HG3	1:A:68:TYR:CE2	2.56	0.41
1:B:153:VAL:HA	1:B:154:PRO:HD3	1.85	0.41
1:B:28:LEU:HB3	1:B:201:LEU:HB3	2.03	0.41
1:B:68:TYR:HA	1:B:79:LEU:HD21	2.03	0.41
2:C:971:LEU:HD13	2:C:1017:GLN:HG2	2.03	0.41
2:C:1094:VAL:HG12	2:C:1095:ASP:N	2.36	0.41
2:C:1117:LEU:CG	2:C:1182:ILE:CD1	2.97	0.41
2:C:262:TYR:HE1	2:C:276:GLN:CG	2.33	0.41
2:C:870:ILE:HG22	2:C:871:VAL:O	2.21	0.41
2:C:743:PRO:HA	2:C:974:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:113:HIS:CD2	3:D:115:TRP:HB2	2.55	0.41
3:D:1179:PRO:HB2	3:D:1182:GLY:CA	2.50	0.41
3:D:127:LEU:HD23	3:D:127:LEU:HA	1.70	0.41
3:D:109:SER:HA	3:D:183:GLU:OE2	2.20	0.41
3:D:423:LEU:O	3:D:434:ILE:HA	2.21	0.41
5:F:398:GLY:O	5:F:399:LEU:HD23	2.20	0.41
1:G:31:LEU:HD11	1:G:201:LEU:HB3	2.01	0.41
2:I:1109:ILE:HG12	3:J:740:LEU:HD22	2.01	0.41
2:I:1115:THR:HG1	2:I:1115:THR:H	1.55	0.41
2:I:395:TYR:CZ	2:I:420:LEU:HD11	2.56	0.41
2:I:592:ARG:HG3	2:I:653:MET:HE2	2.03	0.41
2:I:705:GLU:HG3	2:I:794:LEU:HB3	2.03	0.41
2:I:851:THR:CG2	2:I:852:ALA:N	2.83	0.41
3:J:104:HIS:HB2	3:J:241:VAL:CG1	2.51	0.41
3:J:1160:SER:HA	3:J:1204:VAL:O	2.20	0.41
3:J:1280:VAL:CG1	3:J:1281:GLU:N	2.82	0.41
1:N:37:HIS:CD2	1:N:187:VAL:HG21	2.55	0.41
1:N:231:PHE:N	1:N:231:PHE:CD1	2.87	0.41
2:O:446:ASP:N	2:O:446:ASP:OD1	2.54	0.41
2:O:888:THR:O	2:O:913:VAL:CG1	2.67	0.41
3:P:160:LEU:HD22	3:P:164:GLN:HB3	2.03	0.41
3:P:296:LYS:O	3:P:299:LEU:HB3	2.21	0.41
3:P:332:LYS:O	3:P:333:GLY:C	2.59	0.41
3:P:33:TRP:N	3:P:33:TRP:CD1	2.88	0.41
3:P:515:ARG:CZ	3:P:717:VAL:HG23	2.51	0.41
5:R:324:LYS:HA	5:R:325:PRO:HD3	1.81	0.41
3:P:79:LYS:CE	5:R:569:THR:HG22	2.51	0.41
7:2:24:DT:OP1	7:2:24:DT:C4'	2.69	0.40
7:5:5:DC:C2	7:5:6:DG:C8	3.09	0.40
1:B:107:ILE:HG12	1:B:134:THR:O	2.21	0.40
1:B:198:LEU:HD13	1:B:198:LEU:H	1.85	0.40
2:C:1334:GLY:O	3:D:25:ALA:CB	2.68	0.40
2:C:616:ILE:O	2:C:636:CYS:HB3	2.21	0.40
2:C:636:CYS:HB2	2:C:645:PHE:CD2	2.56	0.40
3:D:1135:THR:O	3:D:1139:PRO:HD2	2.20	0.40
3:D:913:GLU:HG3	4:E:17:PHE:HZ	1.86	0.40
4:E:15:ASN:HB3	4:E:18:ASP:OD2	2.21	0.40
4:E:38:LEU:HG	4:E:53:GLU:OE2	2.21	0.40
5:F:476:ARG:HG3	5:F:477:GLU:H	1.87	0.40
5:F:506:SER:HB3	5:F:509:THR:OG1	2.21	0.40
2:I:700:VAL:HG22	2:I:1117:LEU:HD23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:209:ILE:HG23	2:I:210:LEU:H	1.86	0.40
2:I:68:LEU:HD12	2:I:68:LEU:HA	1.64	0.40
3:J:1023:HIS:O	3:J:1024:THR:CB	2.69	0.40
3:J:1204:VAL:HG23	3:J:1204:VAL:O	2.22	0.40
3:J:1210:ILE:HD12	3:J:1210:ILE:N	2.36	0.40
3:J:147:ILE:HG13	3:J:147:ILE:H	1.62	0.40
3:J:646:ILE:HD11	3:J:764:ARG:HD3	2.02	0.40
3:J:952:VAL:HG11	3:J:984:LEU:HD13	2.00	0.40
5:L:280:VAL:CG1	5:L:284:GLU:OE2	2.68	0.40
2:O:1086:PRO:CB	2:O:1212:LEU:HD22	2.51	0.40
2:O:1122:LYS:HD3	2:O:1122:LYS:HA	1.82	0.40
2:O:1307:ASN:HB3	2:O:1312:ASN:HB3	2.02	0.40
2:O:403:MET:O	2:O:403:MET:HG2	2.20	0.40
2:O:213:LEU:HD13	2:O:422:LYS:CB	2.51	0.40
3:P:833:GLU:OE1	3:P:1242:ARG:NH2	2.53	0.40
3:P:17:PHE:CE1	3:P:1355:ARG:NH1	2.90	0.40
3:P:284:ASP:N	3:P:284:ASP:OD1	2.54	0.40
3:P:614:LEU:HD23	4:Q:7:GLN:HB2	2.03	0.40
3:P:725:MET:HE2	3:P:725:MET:HB2	1.68	0.40
4:Q:2:ALA:HB2	4:Q:55:GLU:OE1	2.22	0.40
2:C:183:TRP:CZ3	6:1:47:DC:N4	2.79	0.40
6:4:50:DT:C5'	6:4:51:DC:C5	3.03	0.40
6:4:53:DG:H1'	6:4:54:DA:C5'	2.47	0.40
7:5:6:DG:H2''	7:5:7:DC:O5'	2.21	0.40
1:A:221:ALA:O	1:A:224:LEU:HB3	2.22	0.40
1:A:85:LEU:HA	1:A:85:LEU:HD23	1.80	0.40
2:C:11:ILE:HG22	2:C:12:ARG:N	2.35	0.40
2:C:180:ARG:O	2:C:395:TYR:HA	2.21	0.40
2:C:499:SER:HB3	2:C:503:LYS:NZ	2.36	0.40
2:C:831:ILE:CD1	2:C:831:ILE:H	2.20	0.40
3:D:1031:VAL:CG1	3:D:1090:ILE:HA	2.52	0.40
3:D:227:PHE:CE1	3:D:232:ASN:O	2.74	0.40
3:D:45:ASN:HB3	3:D:48:THR:O	2.21	0.40
2:C:1105:SER:HB3	3:D:731:ARG:HD2	2.03	0.40
3:D:744:ARG:HB3	3:D:759:ILE:HG22	2.02	0.40
3:D:761:ALA:HB3	3:D:767:LEU:CD2	2.51	0.40
1:G:75:GLN:HG2	1:G:134:THR:HG23	2.02	0.40
2:I:170:VAL:CG1	2:I:172:TYR:OH	2.69	0.40
2:I:240:GLU:HA	2:I:283:LYS:O	2.21	0.40
2:I:28:LEU:HD21	2:I:524:ILE:HG23	2.03	0.40
2:I:514:PHE:CZ	7:5:19:DA:H1'	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:558:VAL:HG11	2:I:573:ASN:HB3	2.04	0.40
2:I:599:VAL:HG21	2:I:623:LEU:HD21	2.04	0.40
3:J:1024:THR:HG21	3:J:1123:ARG:HD3	2.04	0.40
3:J:1226:VAL:HA	3:J:1229:VAL:HG12	2.03	0.40
3:J:481:ARG:NH1	4:K:3:ARG:O	2.54	0.40
1:N:192:VAL:O	1:N:193:GLU:C	2.60	0.40
1:N:18:GLN:HG3	1:N:24:ALA:HB2	2.03	0.40
2:O:1273:MET:HB3	3:P:428:THR:HB	2.02	0.40
2:O:164:THR:O	2:O:165:HIS:CB	2.68	0.40
2:O:700:VAL:HG21	2:O:1114:GLU:HG3	2.04	0.40
2:O:866:ASP:CG	2:O:867:GLU:N	2.74	0.40
2:O:896:THR:HB	2:O:897:PRO:HD2	2.02	0.40
3:P:1263:LYS:HB2	3:P:1307:LEU:HD11	1.98	0.40
3:P:178:ALA:C	3:P:179:LYS:HD2	2.41	0.40
3:P:368:LEU:HA	3:P:369:PRO:HD3	1.92	0.40
5:R:103:ARG:HB3	5:R:103:ARG:CZ	2.52	0.40
5:R:113:ARG:HB2	5:R:114:GLU:H	1.64	0.40
5:R:98:VAL:HG12	5:R:99:ARG:N	2.37	0.40
6:1:46:DG:C8	6:1:46:DG:C3'	3.04	0.40
2:I:1273:MET:HG3	7:5:14:DC:H4'	2.03	0.40
6:7:36:DT:H6	6:7:36:DT:H2'	1.71	0.40
6:7:48:DA:C8	6:7:48:DA:C5'	3.05	0.40
6:7:48:DA:H8	6:7:48:DA:C5'	2.35	0.40
1:A:44:ARG:N	1:A:47:LEU:HD12	2.37	0.40
2:C:366:ILE:HG22	2:C:384:LEU:CD2	2.52	0.40
2:C:616:ILE:CG1	2:C:652:TYR:HB2	2.50	0.40
2:C:927:THR:O	2:C:1055:ALA:HB3	2.21	0.40
2:C:1239:VAL:HG23	3:D:354:VAL:CG2	2.51	0.40
3:D:396:ALA:HA	3:D:399:LYS:HD2	2.02	0.40
3:D:44:ILE:HD12	3:D:49:PHE:HA	2.03	0.40
2:C:1294:LYS:HE2	3:D:472:LEU:HD11	2.03	0.40
3:D:483:LEU:HD23	3:D:483:LEU:N	2.36	0.40
3:D:40:LYS:NZ	3:D:53:ARG:HE	2.19	0.40
3:D:582:ILE:HG23	3:D:623:GLN:HB3	2.03	0.40
3:D:847:ASP:N	3:D:847:ASP:OD1	2.55	0.40
5:F:551:LEU:HD21	5:F:598:LEU:HD21	2.03	0.40
2:I:668:ILE:HA	2:I:669:PRO:HD3	1.77	0.40
2:I:702:THR:HG22	2:I:1184:THR:O	2.21	0.40
2:I:798:GLN:HB2	2:I:828:PHE:CE1	2.55	0.40
3:J:1167:LYS:H	3:J:1167:LYS:HG3	1.39	0.40
3:J:354:VAL:HG13	3:J:355:ILE:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:83:LEU:O	3:J:528:THR:HG21	2.21	0.40
3:J:796:LEU:HD11	3:J:800:LEU:HD11	2.03	0.40
3:J:918:ILE:HG23	3:J:919:ALA:N	2.29	0.40
1:M:56:VAL:HG13	1:M:144:ILE:HG22	2.03	0.40
1:N:74:VAL:CG1	1:N:131:CYS:SG	3.10	0.40
2:O:99:LYS:HG3	2:O:121:GLU:HG3	2.03	0.40
2:O:1290:MET:N	2:O:1290:MET:SD	2.95	0.40
2:O:1290:MET:SD	2:O:1294:LYS:CD	2.94	0.40
2:O:302:ILE:HB	2:O:308:GLU:O	2.22	0.40
3:P:1026:PRO:HA	3:P:1123:ARG:HA	2.03	0.40
3:P:848:VAL:HG21	3:P:880:VAL:HG13	2.02	0.40
3:P:42:GLU:OE2	5:R:451:ARG:HG2	2.21	0.40
6:4:34:DG:H2''	6:4:35:DC:C6	2.56	0.40
6:7:30:DG:C2	7:8:34:DG:N2	2.89	0.40
7:8:4:DC:C4	7:8:5:DC:C4	3.10	0.40
2:C:670:PHE:HE1	2:C:1184:THR:HG1	1.63	0.40
2:C:184:LEU:HG	2:C:389:PHE:CZ	2.57	0.40
2:C:253:PHE:CD2	2:C:253:PHE:N	2.90	0.40
2:C:367:TYR:HD1	2:C:384:LEU:HD22	1.87	0.40
2:C:558:VAL:O	2:C:560:PRO:CD	2.70	0.40
2:C:725:GLN:OE1	2:C:735:LYS:HE3	2.22	0.40
2:C:898:GLU:CD	2:C:898:GLU:H	2.24	0.40
3:D:648:GLU:HG3	3:D:700:ASN:ND2	2.36	0.40
3:D:701:LEU:HA	3:D:701:LEU:HD12	1.82	0.40
5:F:426:LYS:HA	5:F:426:LYS:HD2	1.77	0.40
5:F:429:THR:HG23	6:1:39:DA:C8	2.57	0.40
2:I:18:ARG:HD3	2:I:18:ARG:HA	1.90	0.40
2:I:452:ARG:CZ	2:I:458:GLU:OE1	2.69	0.40
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.92	0.40
2:I:851:THR:HG22	2:I:853:ASP:H	1.86	0.40
3:J:1154:ALA:HB1	3:J:1211:SER:HB2	2.03	0.40
3:J:1169:THR:HG22	3:J:1169:THR:O	2.21	0.40
3:J:1273:ASP:C	3:J:1274:PHE:CG	2.95	0.40
3:J:503:SER:C	3:J:507:VAL:HG23	2.41	0.40
3:J:514:THR:CB	3:J:595:ALA:HA	2.42	0.40
3:J:701:LEU:HA	3:J:701:LEU:HD12	1.28	0.40
3:J:747:MET:CE	3:J:775:SER:HA	2.51	0.40
5:L:419:PHE:HA	5:L:430:TYR:HE2	1.86	0.40
1:N:75:GLN:HE21	1:N:134:THR:HG22	1.85	0.40
1:N:61:ILE:HG13	1:N:171:LEU:HD11	2.03	0.40
2:O:92:TYR:N	2:O:137:VAL:HB	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:32:LEU:HD23	2:O:130:MET:CE	2.51	0.40
2:O:448:LEU:HD13	2:O:557:ARG:HD2	2.02	0.40
2:O:656:SER:O	2:O:659:GLN:HG2	2.21	0.40
3:P:1040:MET:HE3	3:P:1046:ILE:HG21	2.02	0.40
3:P:1216:ALA:O	3:P:1220:ILE:HG13	2.21	0.40
3:P:1320:ILE:H	3:P:1320:ILE:HG13	1.44	0.40
3:P:155:GLU:HB3	3:P:156:ARG:H	1.67	0.40
3:P:90:VAL:HG12	3:P:91:GLU:O	2.21	0.40
3:P:975:ILE:HD12	3:P:997:VAL:HG11	2.03	0.40
3:P:999:TYR:HE2	3:P:1027:VAL:HA	1.86	0.40
5:R:133:SER:HB3	5:R:365:MET:SD	2.61	0.40
5:R:399:LEU:HB3	5:R:400:GLN:H	1.48	0.40
5:R:405:ILE:H	5:R:405:ILE:HG13	1.47	0.40
5:F:385:ARG:HB2	6:1:41:DT:H1'	2.03	0.40
6:7:43:DT:C6	6:7:43:DT:H3'	2.56	0.40
1:A:142:MET:HB3	1:A:142:MET:HE2	1.54	0.40
1:A:190:ALA:N	1:A:199:ASP:HA	2.35	0.40
1:A:44:ARG:HA	1:A:183:ILE:CD1	2.41	0.40
1:A:48:LEU:HD21	1:A:180:VAL:O	2.21	0.40
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	2.02	0.40
3:D:1173:ARG:HG3	3:D:1196:LEU:HD11	2.03	0.40
3:D:154:LEU:HD22	3:D:158:GLN:HG2	2.04	0.40
3:D:246:PRO:HA	3:D:247:PRO:HD3	1.88	0.40
3:D:390:LEU:HG	3:D:390:LEU:H	1.64	0.40
2:I:804:PHE:C	2:I:1100:PRO:HG3	2.41	0.40
2:I:1233:LEU:HD23	2:I:1233:LEU:HA	1.81	0.40
2:I:1323:PHE:HE2	3:J:1352:ILE:HG22	1.87	0.40
2:I:550:VAL:O	3:J:777:HIS:HE1	2.02	0.40
2:I:800:MET:O	2:I:802:VAL:HG23	2.20	0.40
2:I:3:TYR:O	2:I:8:LYS:HE3	2.21	0.40
3:J:1305:ASP:N	3:J:1305:ASP:OD1	2.54	0.40
3:J:1319:PHE:CE2	3:J:1342:ASP:HB2	2.56	0.40
3:J:24:LEU:HG	3:J:232:ASN:ND2	2.36	0.40
3:J:450:HIS:HA	3:J:451:PRO:HD3	1.79	0.40
3:J:962:ASN:HD22	3:J:964:LYS:NZ	2.20	0.40
2:O:1232:MET:CE	2:O:1232:MET:HA	2.51	0.40
1:M:68:TYR:HB2	2:O:929:ILE:CD1	2.52	0.40
2:O:170:VAL:HG23	3:P:1065:ALA:O	2.21	0.40
3:P:1209:VAL:HG12	3:P:1211:SER:O	2.21	0.40
3:P:423:LEU:HD11	3:P:437:PHE:CD1	2.56	0.40
3:P:481:ARG:O	3:P:485:MET:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:835:LEU:HD11	3:P:839:VAL:CG2	2.45	0.40
5:R:432:THR:O	5:R:436:ARG:HB2	2.22	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)
3:D:1169:THR:OG1	6:1:16:DA:OP1[2_657]	1.85	0.35
3:D:710:ASP:OD2	3:J:1282:TYR:OH[2_547]	1.93	0.27
3:D:710:ASP:CA	3:J:1302:TYR:OH[2_547]	2.07	0.13

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	228/242 (94%)	214 (94%)	11 (5%)	3 (1%)	12 47
1	B	226/242 (93%)	204 (90%)	17 (8%)	5 (2%)	6 35
1	G	228/242 (94%)	209 (92%)	16 (7%)	3 (1%)	12 47
1	H	226/242 (93%)	207 (92%)	13 (6%)	6 (3%)	5 31
1	M	228/242 (94%)	214 (94%)	14 (6%)	0	100 100
1	N	226/242 (93%)	209 (92%)	14 (6%)	3 (1%)	12 47
2	C	1339/1342 (100%)	1218 (91%)	98 (7%)	23 (2%)	9 41
2	I	1339/1342 (100%)	1214 (91%)	105 (8%)	20 (2%)	10 45
2	O	1339/1342 (100%)	1234 (92%)	90 (7%)	15 (1%)	14 51
3	D	1360/1407 (97%)	1220 (90%)	109 (8%)	31 (2%)	6 34
3	J	1360/1407 (97%)	1227 (90%)	99 (7%)	34 (2%)	5 32
3	P	1360/1407 (97%)	1226 (90%)	99 (7%)	35 (3%)	5 31
4	E	88/90 (98%)	83 (94%)	5 (6%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	K	88/90 (98%)	84 (96%)	3 (3%)	1 (1%)	14	51
4	Q	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
5	F	493/628 (78%)	444 (90%)	27 (6%)	22 (4%)	2	22
5	L	493/628 (78%)	447 (91%)	28 (6%)	18 (4%)	3	25
5	R	493/628 (78%)	449 (91%)	30 (6%)	14 (3%)	5	30
All	All	11202/11853 (94%)	10187 (91%)	782 (7%)	233 (2%)	7	36

All (233) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	164	ASP
1	B	118	ASP
2	C	110	PRO
2	C	214	ASN
2	C	247	ARG
2	C	281	ASP
2	C	730	SER
2	C	791	LEU
2	C	812	PHE
2	C	1162	SER
3	D	53	ARG
3	D	174	ASP
3	D	519	ASN
3	D	590	SER
3	D	1200	GLU
3	D	1275	LEU
3	D	1309	ILE
5	F	243	ALA
5	F	296	LYS
5	F	325	PRO
5	F	330	LEU
5	F	396	ASN
5	F	446	GLN
5	F	515	GLU
5	F	519	LEU
5	F	553	ALA
5	F	581	ASP
1	G	210	THR
1	G	233	ASP
1	H	117	HIS

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Mol	Chain	Res	Type
1	H	158	ARG
1	H	159	ILE
2	I	481	LEU
2	I	625	GLU
2	I	791	LEU
2	I	1162	SER
3	J	53	ARG
3	J	321	LYS
3	J	519	ASN
3	J	590	SER
3	J	966	VAL
3	J	1024	THR
3	J	1201	GLY
3	J	1275	LEU
3	J	1297	LYS
3	J	1309	ILE
5	L	243	ALA
5	L	296	LYS
5	L	396	ASN
5	L	515	GLU
5	L	519	LEU
5	L	553	ALA
5	L	581	ASP
1	N	209	GLY
2	O	110	PRO
2	O	791	LEU
2	O	808	ASN
2	O	812	PHE
2	O	1162	SER
3	P	53	ARG
3	P	519	ASN
3	P	590	SER
3	P	828	GLY
3	P	1024	THR
3	P	1097	ALA
3	P	1200	GLU
3	P	1275	LEU
3	P	1309	ILE
5	R	154	GLU
5	R	243	ALA
5	R	296	LYS
5	R	396	ASN

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Mol	Chain	Res	Type
5	R	515	GLU
5	R	519	LEU
5	R	581	ASP
1	A	210	THR
1	B	119	GLY
1	B	191	ARG
2	C	165	HIS
2	C	314	ASN
2	C	546	GLU
2	C	643	SER
2	C	895	LEU
2	C	984	VAL
2	C	1005	GLU
3	D	321	LYS
3	D	404	GLU
3	D	769	VAL
3	D	947	GLU
3	D	1024	THR
3	D	1170	LYS
3	D	1268	ASN
5	F	154	GLU
5	F	310	GLU
1	G	93	GLN
1	H	118	ASP
2	I	40	GLU
2	I	113	THR
2	I	247	ARG
2	I	314	ASN
2	I	730	SER
2	I	908	GLU
3	J	520	ALA
3	J	948	SER
3	J	1053	LEU
3	J	1114	GLN
4	K	4	VAL
5	L	154	GLU
5	L	310	GLU
1	N	194	GLN
2	O	45	GLY
2	O	113	THR
2	O	314	ASN
2	O	730	SER

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Mol	Chain	Res	Type
3	P	174	ASP
3	P	321	LYS
3	P	404	GLU
3	P	542	ALA
3	P	719	PHE
3	P	1268	ASN
5	R	310	GLU
5	R	323	ASN
5	R	447	ALA
1	B	17	GLU
2	C	787	PRO
2	C	1135	GLN
3	D	962	ASN
3	D	1087	ASP
3	D	1097	ALA
3	D	1106	ILE
3	D	1114	GLN
3	D	1166	GLY
3	D	1325	PHE
5	F	166	VAL
1	H	164	ASP
2	I	165	HIS
2	I	341	LEU
2	I	643	SER
2	I	787	PRO
2	I	891	GLY
3	J	16	GLU
3	J	122	SER
3	J	731	ARG
3	J	953	LYS
3	J	1200	GLU
3	J	1268	ASN
5	L	166	VAL
5	L	238	LYS
5	L	400	GLN
5	L	478	PRO
2	O	281	ASP
2	O	787	PRO
3	P	16	GLU
3	P	122	SER
3	P	152	THR
3	P	353	SER

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Mol	Chain	Res	Type
3	P	1114	GLN
3	P	1201	GLY
3	P	1318	SER
3	P	1325	PHE
5	R	166	VAL
5	R	238	LYS
1	A	233	ASP
1	B	194	GLN
2	C	163	LYS
2	C	897	PRO
2	C	908	GLU
3	D	122	SER
3	D	333	GLY
3	D	1022	PRO
3	D	1297	LYS
5	F	324	LYS
5	F	476	ARG
2	I	110	PRO
2	I	246	LEU
3	J	174	ASP
3	J	376	LEU
3	J	404	GLU
3	J	854	ALA
3	J	1020	TRP
3	J	1097	ALA
3	J	1325	PHE
5	L	155	GLU
5	L	324	LYS
5	L	447	ALA
1	N	191	ARG
2	O	43	PRO
2	O	165	HIS
2	O	341	LEU
3	P	333	GLY
3	P	710	ASP
3	P	953	LYS
3	P	1117	SER
3	P	1185	PRO
5	R	155	GLU
2	C	246	LEU
2	C	669	PRO
2	C	913	VAL

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Mol	Chain	Res	Type
3	D	1100	PHE
5	F	144	LEU
5	F	447	ALA
2	I	214	ASN
3	J	943	ARG
3	J	1262	ARG
2	O	1187	PHE
3	P	77	ARG
3	P	420	PRO
3	P	731	ARG
3	P	769	VAL
3	D	828	GLY
3	D	854	ALA
3	D	1052	GLU
5	F	238	LYS
5	F	478	PRO
5	F	583	THR
2	I	993	PRO
3	J	542	ALA
3	J	1106	ILE
3	P	750	PRO
5	F	91	ILE
3	P	378	LYS
5	R	324	LYS
1	H	209	GLY
2	I	983	GLY
3	J	1166	GLY
3	J	1185	PRO
3	J	1287	ILE
5	L	504	PRO
3	D	749	LYS
3	D	1185	PRO
5	F	582	VAL
5	L	91	ILE
3	P	1106	ILE

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	181 (91%)	17 (9%)	10	34
1	B	196/208 (94%)	172 (88%)	24 (12%)	5	21
1	G	198/208 (95%)	178 (90%)	20 (10%)	7	27
1	H	196/208 (94%)	174 (89%)	22 (11%)	6	23
1	M	198/208 (95%)	178 (90%)	20 (10%)	7	27
1	N	196/208 (94%)	176 (90%)	20 (10%)	7	26
2	C	1156/1157 (100%)	1042 (90%)	114 (10%)	8	28
2	I	1156/1157 (100%)	1052 (91%)	104 (9%)	9	32
2	O	1156/1157 (100%)	1050 (91%)	106 (9%)	9	30
3	D	1135/1168 (97%)	1026 (90%)	109 (10%)	8	29
3	J	1135/1168 (97%)	1014 (89%)	121 (11%)	6	25
3	P	1135/1168 (97%)	1017 (90%)	118 (10%)	7	26
4	E	74/74 (100%)	70 (95%)	4 (5%)	22	49
4	K	74/74 (100%)	67 (90%)	7 (10%)	8	29
4	Q	74/74 (100%)	66 (89%)	8 (11%)	6	25
5	F	439/554 (79%)	406 (92%)	33 (8%)	13	39
5	L	439/554 (79%)	394 (90%)	45 (10%)	7	26
5	R	439/554 (79%)	393 (90%)	46 (10%)	7	26
All	All	9594/10107 (95%)	8656 (90%)	938 (10%)	8	28

All (938) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	LEU
1	A	33	ARG
1	A	48	LEU
1	A	90	VAL
1	A	100	LEU
1	A	123	ILE
1	A	127	GLN
1	A	131	CYS
1	A	140	ILE
1	A	171	LEU
1	A	174	ASP
1	A	180	VAL

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Mol	Chain	Res	Type
1	A	183	ILE
1	A	186	ASN
1	A	208	ASN
1	A	223	ILE
1	A	228	LEU
1	B	12	ARG
1	B	13	LEU
1	B	28	LEU
1	B	29	GLU
1	B	43	LEU
1	B	79	LEU
1	B	88	LEU
1	B	90	VAL
1	B	111	THR
1	B	122	GLU
1	B	127	GLN
1	B	133	LEU
1	B	140	ILE
1	B	142	MET
1	B	150	ARG
1	B	170	ARG
1	B	171	LEU
1	B	172	LEU
1	B	192	VAL
1	B	195	ARG
1	B	196	THR
1	B	198	LEU
1	B	217	ILE
1	B	224	LEU
2	C	6	THR
2	C	32	LEU
2	C	46	GLN
2	C	70	TYR
2	C	75	LEU
2	C	113	THR
2	C	114	VAL
2	C	117	ILE
2	C	119	GLU
2	C	127	ILE
2	C	147	SER
2	C	152	SER
2	C	155	VAL

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Mol	Chain	Res	Type
2	C	182	SER
2	C	202	ARG
2	C	232	ILE
2	C	240	GLU
2	C	269	ILE
2	C	275	ARG
2	C	290	GLU
2	C	297	VAL
2	C	300	ASP
2	C	319	LEU
2	C	320	ASP
2	C	332	ARG
2	C	358	ASP
2	C	369	MET
2	C	383	SER
2	C	384	LEU
2	C	388	LEU
2	C	391	SER
2	C	425	ILE
2	C	432	LEU
2	C	443	ASP
2	C	446	ASP
2	C	455	SER
2	C	459	MET
2	C	472	GLU
2	C	484	LEU
2	C	493	ILE
2	C	499	SER
2	C	521	LEU
2	C	523	GLU
2	C	529	ARG
2	C	541	GLU
2	C	558	VAL
2	C	561	ILE
2	C	563	THR
2	C	565	GLU
2	C	576	SER
2	C	583	GLU
2	C	596	ASP
2	C	601	ASP
2	C	603	ILE
2	C	641	GLU

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Mol	Chain	Res	Type
2	C	662	SER
2	C	663	VAL
2	C	690	VAL
2	C	692	THR
2	C	697	LYS
2	C	734	ILE
2	C	740	GLU
2	C	766	ASN
2	C	772	SER
2	C	775	GLU
2	C	777	VAL
2	C	788	SER
2	C	790	ASP
2	C	791	LEU
2	C	799	ASN
2	C	800	MET
2	C	808	ASN
2	C	814	ASP
2	C	815	SER
2	C	822	VAL
2	C	831	ILE
2	C	850	ILE
2	C	856	ASN
2	C	859	GLU
2	C	863	SER
2	C	864	LYS
2	C	868	SER
2	C	893	THR
2	C	896	THR
2	C	929	ILE
2	C	943	LYS
2	C	960	LEU
2	C	1002	LEU
2	C	1009	ASN
2	C	1025	PHE
2	C	1040	ASP
2	C	1049	ILE
2	C	1075	VAL
2	C	1088	ASP
2	C	1089	GLU
2	C	1092	THR
2	C	1098	LEU

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Mol	Chain	Res	Type
2	C	1105	SER
2	C	1115	THR
2	C	1128	ILE
2	C	1167	GLU
2	C	1170	MET
2	C	1178	LYS
2	C	1182	ILE
2	C	1203	ASP
2	C	1212	LEU
2	C	1222	GLU
2	C	1223	ARG
2	C	1235	LEU
2	C	1252	SER
2	C	1286	THR
2	C	1296	ASP
2	C	1304	MET
2	C	1341	ASP
3	D	15	GLU
3	D	58	CYS
3	D	76	LYS
3	D	78	LEU
3	D	84	ILE
3	D	93	THR
3	D	102	MET
3	D	114	ILE
3	D	115	TRP
3	D	127	LEU
3	D	131	PRO
3	D	133	ARG
3	D	134	ASP
3	D	153	ASN
3	D	159	ILE
3	D	185	ILE
3	D	192	MET
3	D	195	GLU
3	D	208	THR
3	D	212	THR
3	D	238	ILE
3	D	253	VAL
3	D	255	LEU
3	D	330	MET
3	D	374	LEU

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Mol	Chain	Res	Type
3	D	387	LEU
3	D	395	LYS
3	D	410	ASP
3	D	429	LEU
3	D	443	GLU
3	D	492	SER
3	D	495	ASN
3	D	503	SER
3	D	534	GLU
3	D	538	ARG
3	D	539	SER
3	D	541	LEU
3	D	563	LEU
3	D	571	ASP
3	D	573	THR
3	D	601	ILE
3	D	607	THR
3	D	608	CYS
3	D	614	LEU
3	D	624	ILE
3	D	634	ARG
3	D	641	ILE
3	D	642	ASP
3	D	644	MET
3	D	674	THR
3	D	683	ILE
3	D	705	THR
3	D	717	VAL
3	D	721	SER
3	D	736	GLN
3	D	740	LEU
3	D	747	MET
3	D	753	SER
3	D	764	ARG
3	D	776	THR
3	D	786	THR
3	D	796	LEU
3	D	807	LEU
3	D	808	VAL
3	D	810	THR
3	D	812	ASP
3	D	814	CYS

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Mol	Chain	Res	Type
3	D	825	VAL
3	D	830	ASP
3	D	847	ASP
3	D	849	LEU
3	D	891	ASP
3	D	895	CYS
3	D	910	ASN
3	D	911	LYS
3	D	918	ILE
3	D	928	THR
3	D	934	THR
3	D	936	HIS
3	D	937	ILE
3	D	947	GLU
3	D	948	SER
3	D	986	ASP
3	D	994	SER
3	D	1021	ASP
3	D	1024	THR
3	D	1031	VAL
3	D	1051	ASP
3	D	1086	ASN
3	D	1088	VAL
3	D	1119	ASP
3	D	1155	ILE
3	D	1164	SER
3	D	1170	LYS
3	D	1184	ASP
3	D	1206	ARG
3	D	1208	ASP
3	D	1221	LEU
3	D	1226	VAL
3	D	1230	THR
3	D	1231	ARG
3	D	1250	ASP
3	D	1285	VAL
3	D	1307	LEU
3	D	1318	SER
3	D	1320	ILE
3	D	1321	SER
3	D	1333	THR
3	D	1357	ILE

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Mol	Chain	Res	Type
4	E	16	ARG
4	E	28	ARG
4	E	36	ASP
4	E	62	GLN
5	F	91	ILE
5	F	93	ARG
5	F	100	MET
5	F	105	MET
5	F	109	GLU
5	F	110	LEU
5	F	132	CYS
5	F	230	VAL
5	F	286	LEU
5	F	294	GLN
5	F	309	ASN
5	F	330	LEU
5	F	332	ASP
5	F	333	VAL
5	F	334	SER
5	F	349	GLU
5	F	356	GLU
5	F	373	ARG
5	F	404	LEU
5	F	417	ASP
5	F	449	THR
5	F	451	ARG
5	F	461	ASN
5	F	476	ARG
5	F	487	MET
5	F	523	ILE
5	F	532	LEU
5	F	554	ARG
5	F	570	ASP
5	F	584	ARG
5	F	602	SER
5	F	603	ARG
5	F	608	ARG
1	G	6	THR
1	G	16	ILE
1	G	28	LEU
1	G	33	ARG
1	G	38	THR

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Mol	Chain	Res	Type
1	G	91	ARG
1	G	121	VAL
1	G	127	GLN
1	G	131	CYS
1	G	170	ARG
1	G	192	VAL
1	G	199	ASP
1	G	202	VAL
1	G	203	ILE
1	G	205	MET
1	G	208	ASN
1	G	224	LEU
1	G	228	LEU
1	G	232	VAL
1	G	233	ASP
1	H	9	LEU
1	H	12	ARG
1	H	16	ILE
1	H	28	LEU
1	H	98	VAL
1	H	111	THR
1	H	130	ILE
1	H	143	ARG
1	H	150	ARG
1	H	157	THR
1	H	165	GLU
1	H	170	ARG
1	H	173	VAL
1	H	174	ASP
1	H	192	VAL
1	H	195	ARG
1	H	196	THR
1	H	212	ASP
1	H	217	ILE
1	H	224	LEU
1	H	226	GLU
1	H	233	ASP
2	I	39	ILE
2	I	46	GLN
2	I	70	TYR
2	I	91	THR
2	I	113	THR

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Mol	Chain	Res	Type
2	I	147	SER
2	I	152	SER
2	I	155	VAL
2	I	167	SER
2	I	188	PHE
2	I	199	ASP
2	I	218	GLU
2	I	222	ASP
2	I	235	ASN
2	I	255	ILE
2	I	272	ARG
2	I	275	ARG
2	I	280	ASP
2	I	281	ASP
2	I	292	ILE
2	I	296	VAL
2	I	414	ILE
2	I	417	SER
2	I	422	LYS
2	I	423	ASP
2	I	442	VAL
2	I	443	ASP
2	I	444	ASP
2	I	446	ASP
2	I	448	LEU
2	I	453	ILE
2	I	459	MET
2	I	480	SER
2	I	490	GLN
2	I	504	GLU
2	I	533	LEU
2	I	545	PHE
2	I	547	VAL
2	I	551	HIS
2	I	563	THR
2	I	565	GLU
2	I	576	SER
2	I	596	ASP
2	I	600	THR
2	I	609	ILE
2	I	618	GLN
2	I	624	ASP

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Mol	Chain	Res	Type
2	I	631	GLU
2	I	642	SER
2	I	662	SER
2	I	692	THR
2	I	714	VAL
2	I	732	ILE
2	I	740	GLU
2	I	750	ILE
2	I	759	SER
2	I	764	CYS
2	I	766	ASN
2	I	772	SER
2	I	779	ARG
2	I	788	SER
2	I	799	ASN
2	I	800	MET
2	I	815	SER
2	I	831	ILE
2	I	843	THR
2	I	854	ILE
2	I	863	SER
2	I	901	LEU
2	I	916	SER
2	I	929	ILE
2	I	931	VAL
2	I	946	LEU
2	I	953	LEU
2	I	973	SER
2	I	974	ARG
2	I	1000	LEU
2	I	1040	ASP
2	I	1053	TYR
2	I	1059	ARG
2	I	1072	ASN
2	I	1085	MET
2	I	1090	ASN
2	I	1092	THR
2	I	1098	LEU
2	I	1108	ASN
2	I	1115	THR
2	I	1150	ASP
2	I	1164	PHE

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Mol	Chain	Res	Type
2	I	1210	ILE
2	I	1223	ARG
2	I	1226	THR
2	I	1253	LEU
2	I	1255	THR
2	I	1265	PHE
2	I	1273	MET
2	I	1286	THR
2	I	1287	LEU
2	I	1292	THR
2	I	1296	ASP
2	I	1299	ASN
2	I	1304	MET
2	I	1332	SER
2	I	1339	LEU
3	J	18	ASP
3	J	52	GLU
3	J	58	CYS
3	J	66	LYS
3	J	67	ASP
3	J	76	LYS
3	J	78	LEU
3	J	88	CYS
3	J	93	THR
3	J	107	LEU
3	J	114	ILE
3	J	124	ILE
3	J	126	LEU
3	J	130	MET
3	J	135	ILE
3	J	145	VAL
3	J	153	ASN
3	J	159	ILE
3	J	162	GLU
3	J	180	MET
3	J	192	MET
3	J	208	THR
3	J	223	LEU
3	J	227	PHE
3	J	252	LEU
3	J	256	ASP
3	J	262	THR

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Mol	Chain	Res	Type
3	J	319	SER
3	J	320	ASN
3	J	321	LYS
3	J	331	ILE
3	J	340	GLN
3	J	343	LEU
3	J	360	TYR
3	J	394	ILE
3	J	398	LYS
3	J	423	LEU
3	J	429	LEU
3	J	447	ILE
3	J	453	VAL
3	J	470	VAL
3	J	485	MET
3	J	492	SER
3	J	503	SER
3	J	515	ARG
3	J	521	LYS
3	J	525	MET
3	J	569	LEU
3	J	601	ILE
3	J	607	THR
3	J	619	ILE
3	J	641	ILE
3	J	643	ASP
3	J	652	GLU
3	J	701	LEU
3	J	713	GLU
3	J	715	LYS
3	J	717	VAL
3	J	718	SER
3	J	721	SER
3	J	722	ILE
3	J	736	GLN
3	J	753	SER
3	J	755	ILE
3	J	785	ASP
3	J	786	THR
3	J	796	LEU
3	J	797	THR
3	J	805	GLN

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Mol	Chain	Res	Type
3	J	806	ASP
3	J	812	ASP
3	J	814	CYS
3	J	825	VAL
3	J	835	LEU
3	J	836	ARG
3	J	855	ASP
3	J	872	LEU
3	J	880	VAL
3	J	882	VAL
3	J	886	VAL
3	J	891	ASP
3	J	895	CYS
3	J	908	ILE
3	J	922	SER
3	J	928	THR
3	J	934	THR
3	J	942	SER
3	J	948	SER
3	J	962	ASN
3	J	992	LYS
3	J	1011	VAL
3	J	1024	THR
3	J	1041	ILE
3	J	1047	THR
3	J	1134	ILE
3	J	1138	LEU
3	J	1167	LYS
3	J	1175	LEU
3	J	1177	ILE
3	J	1180	VAL
3	J	1184	ASP
3	J	1196	LEU
3	J	1203	ARG
3	J	1211	SER
3	J	1219	ASP
3	J	1230	THR
3	J	1246	VAL
3	J	1250	ASP
3	J	1251	LYS
3	J	1256	ILE
3	J	1258	ARG

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Mol	Chain	Res	Type
3	J	1261	LEU
3	J	1265	THR
3	J	1267	VAL
3	J	1271	SER
3	J	1287	ILE
3	J	1301	THR
3	J	1318	SER
3	J	1357	ILE
3	J	1361	THR
3	J	1371	ARG
4	K	4	VAL
4	K	6	VAL
4	K	13	ILE
4	K	21	LEU
4	K	35	LYS
4	K	65	ASP
4	K	66	VAL
5	L	93	ARG
5	L	95	THR
5	L	105	MET
5	L	109	GLU
5	L	110	LEU
5	L	219	GLU
5	L	229	VAL
5	L	230	VAL
5	L	240	ARG
5	L	261	LEU
5	L	288	MET
5	L	294	GLN
5	L	300	LYS
5	L	306	PHE
5	L	309	ASN
5	L	322	MET
5	L	334	SER
5	L	374	ARG
5	L	387	VAL
5	L	400	GLN
5	L	402	LEU
5	L	418	LYS
5	L	440	THR
5	L	441	ARG
5	L	445	ASP

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Mol	Chain	Res	Type
5	L	449	THR
5	L	450	ILE
5	L	459	THR
5	L	461	ASN
5	L	472	GLN
5	L	492	ASP
5	L	496	LYS
5	L	515	GLU
5	L	517	SER
5	L	523	ILE
5	L	532	LEU
5	L	533	ASP
5	L	539	SER
5	L	548	LEU
5	L	565	ILE
5	L	569	THR
5	L	600	HIS
5	L	604	SER
5	L	607	LEU
5	L	608	ARG
1	M	6	THR
1	M	10	LYS
1	M	16	ILE
1	M	28	LEU
1	M	33	ARG
1	M	77	ASP
1	M	79	LEU
1	M	90	VAL
1	M	118	ASP
1	M	127	GLN
1	M	131	CYS
1	M	150	ARG
1	M	158	ARG
1	M	159	ILE
1	M	171	LEU
1	M	187	VAL
1	M	196	THR
1	M	197	ASP
1	M	208	ASN
1	M	224	LEU
1	N	7	GLU
1	N	19	VAL

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Mol	Chain	Res	Type
1	N	26	VAL
1	N	28	LEU
1	N	74	VAL
1	N	82	LEU
1	N	90	VAL
1	N	111	THR
1	N	131	CYS
1	N	144	ILE
1	N	150	ARG
1	N	170	ARG
1	N	171	LEU
1	N	176	CYS
1	N	181	GLU
1	N	187	VAL
1	N	192	VAL
1	N	229	GLU
1	N	231	PHE
1	N	233	ASP
2	O	21	VAL
2	O	44	GLU
2	O	75	LEU
2	O	113	THR
2	O	124	MET
2	O	147	SER
2	O	152	SER
2	O	155	VAL
2	O	182	SER
2	O	218	GLU
2	O	229	ILE
2	O	240	GLU
2	O	253	PHE
2	O	261	VAL
2	O	272	ARG
2	O	287	VAL
2	O	296	VAL
2	O	306	THR
2	O	319	LEU
2	O	340	ASP
2	O	357	ASN
2	O	369	MET
2	O	383	SER
2	O	390	PHE

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Mol	Chain	Res	Type
2	O	403	MET
2	O	404	LYS
2	O	410	LEU
2	O	413	GLU
2	O	422	LYS
2	O	428	VAL
2	O	432	LEU
2	O	433	ILE
2	O	446	ASP
2	O	459	MET
2	O	484	LEU
2	O	485	ASP
2	O	490	GLN
2	O	499	SER
2	O	521	LEU
2	O	541	GLU
2	O	558	VAL
2	O	561	ILE
2	O	563	THR
2	O	576	SER
2	O	589	THR
2	O	609	ILE
2	O	633	LEU
2	O	637	ARG
2	O	656	SER
2	O	662	SER
2	O	692	THR
2	O	699	LEU
2	O	700	VAL
2	O	714	VAL
2	O	750	ILE
2	O	759	SER
2	O	764	CYS
2	O	766	ASN
2	O	777	VAL
2	O	788	SER
2	O	791	LEU
2	O	799	ASN
2	O	805	MET
2	O	815	SER
2	O	831	ILE
2	O	842	ASP

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Mol	Chain	Res	Type
2	O	845	LEU
2	O	863	SER
2	O	873	ILE
2	O	893	THR
2	O	901	LEU
2	O	912	ASP
2	O	916	SER
2	O	922	ASN
2	O	933	VAL
2	O	935	THR
2	O	941	LYS
2	O	942	ASP
2	O	946	LEU
2	O	1002	LEU
2	O	1041	ASP
2	O	1085	MET
2	O	1092	THR
2	O	1094	VAL
2	O	1098	LEU
2	O	1105	SER
2	O	1113	LEU
2	O	1134	GLN
2	O	1166	ASP
2	O	1178	LYS
2	O	1212	LEU
2	O	1223	ARG
2	O	1227	VAL
2	O	1240	ASP
2	O	1246	ARG
2	O	1254	VAL
2	O	1255	THR
2	O	1262	LYS
2	O	1265	PHE
2	O	1293	VAL
2	O	1296	ASP
2	O	1299	ASN
2	O	1302	THR
2	O	1304	MET
2	O	1305	TYR
2	O	1319	MET
3	P	28	ASP
3	P	29	MET

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Mol	Chain	Res	Type
3	P	32	SER
3	P	58	CYS
3	P	78	LEU
3	P	93	THR
3	P	123	ARG
3	P	124	ILE
3	P	148	GLU
3	P	154	LEU
3	P	167	ASP
3	P	169	LEU
3	P	180	MET
3	P	194	LEU
3	P	195	GLU
3	P	208	THR
3	P	227	PHE
3	P	289	ASP
3	P	294	ASN
3	P	299	LEU
3	P	306	LEU
3	P	314	ARG
3	P	331	ILE
3	P	334	LYS
3	P	356	THR
3	P	357	VAL
3	P	368	LEU
3	P	371	LYS
3	P	372	MET
3	P	394	ILE
3	P	423	LEU
3	P	429	LEU
3	P	431	ARG
3	P	442	ILE
3	P	447	ILE
3	P	449	LEU
3	P	453	VAL
3	P	478	LEU
3	P	492	SER
3	P	499	ILE
3	P	503	SER
3	P	519	ASN
3	P	526	VAL
3	P	539	SER

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Mol	Chain	Res	Type
3	P	563	LEU
3	P	568	SER
3	P	581	MET
3	P	590	SER
3	P	607	THR
3	P	617	THR
3	P	622	ASP
3	P	642	ASP
3	P	648	GLU
3	P	649	LYS
3	P	669	GLN
3	P	690	ASN
3	P	707	ILE
3	P	716	GLN
3	P	721	SER
3	P	746	LEU
3	P	747	MET
3	P	753	SER
3	P	759	ILE
3	P	768	ASN
3	P	769	VAL
3	P	770	LEU
3	P	774	ILE
3	P	785	ASP
3	P	796	LEU
3	P	805	GLN
3	P	825	VAL
3	P	830	ASP
3	P	839	VAL
3	P	840	LEU
3	P	869	CYS
3	P	872	LEU
3	P	882	VAL
3	P	885	VAL
3	P	895	CYS
3	P	908	ILE
3	P	913	GLU
3	P	948	SER
3	P	958	ILE
3	P	994	SER
3	P	1052	GLU
3	P	1131	THR

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Mol	Chain	Res	Type
3	P	1134	ILE
3	P	1138	LEU
3	P	1163	VAL
3	P	1167	LYS
3	P	1183	SER
3	P	1184	ASP
3	P	1189	MET
3	P	1204	VAL
3	P	1221	LEU
3	P	1226	VAL
3	P	1230	THR
3	P	1231	ARG
3	P	1233	ILE
3	P	1236	GLU
3	P	1250	ASP
3	P	1256	ILE
3	P	1262	ARG
3	P	1265	THR
3	P	1267	VAL
3	P	1271	SER
3	P	1272	SER
3	P	1284	ARG
3	P	1307	LEU
3	P	1318	SER
3	P	1320	ILE
3	P	1321	SER
3	P	1333	THR
3	P	1345	ARG
3	P	1347	LEU
3	P	1353	VAL
3	P	1356	LEU
3	P	1361	THR
4	Q	4	VAL
4	Q	8	ASP
4	Q	19	LEU
4	Q	31	GLN
4	Q	36	ASP
4	Q	44	ASP
4	Q	65	ASP
4	Q	67	ARG
5	R	85	SER
5	R	89	SER

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Mol	Chain	Res	Type
5	R	95	THR
5	R	105	MET
5	R	109	GLU
5	R	110	LEU
5	R	132	CYS
5	R	229	VAL
5	R	230	VAL
5	R	264	LYS
5	R	322	MET
5	R	330	LEU
5	R	333	VAL
5	R	334	SER
5	R	365	MET
5	R	374	ARG
5	R	386	LEU
5	R	387	VAL
5	R	388	ILE
5	R	399	LEU
5	R	400	GLN
5	R	404	LEU
5	R	428	SER
5	R	451	ARG
5	R	455	HIS
5	R	459	THR
5	R	461	ASN
5	R	479	THR
5	R	483	LEU
5	R	487	MET
5	R	491	GLU
5	R	492	ASP
5	R	494	ILE
5	R	511	ILE
5	R	513	ASP
5	R	515	GLU
5	R	517	SER
5	R	526	THR
5	R	533	ASP
5	R	541	ARG
5	R	568	ASN
5	R	587	ILE
5	R	600	HIS
5	R	603	ARG

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Mol	Chain	Res	Type
5	R	609	SER
5	R	613	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (148) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	75	GLN
1	A	132	HIS
1	A	147	GLN
1	A	208	ASN
1	A	227	GLN
1	B	66	HIS
1	B	194	GLN
2	C	46	GLN
2	C	150	HIS
2	C	214	ASN
2	C	447	HIS
2	C	517	GLN
2	C	573	ASN
2	C	658	GLN
2	C	659	GLN
2	C	766	ASN
2	C	808	ASN
2	C	1116	HIS
2	C	1175	ASN
2	C	1257	GLN
2	C	1313	HIS
3	D	157	GLN
3	D	200	GLN
3	D	274	ASN
3	D	364	HIS
3	D	450	HIS
3	D	489	ASN
3	D	504	GLN
3	D	690	ASN
3	D	700	ASN
3	D	720	ASN
3	D	736	GLN
3	D	777	HIS
3	D	929	GLN
3	D	1019	ASN

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Mol	Chain	Res	Type
3	D	1049	GLN
3	D	1098	GLN
3	D	1114	GLN
3	D	1259	GLN
3	D	1289	ASN
3	D	1326	GLN
4	E	43	ASN
4	E	73	GLN
5	F	169	ASN
5	F	242	HIS
5	F	271	ASN
5	F	472	GLN
1	G	66	HIS
1	G	84	ASN
1	G	147	GLN
1	H	132	HIS
1	H	147	GLN
1	H	194	GLN
2	I	150	HIS
2	I	513	GLN
2	I	554	HIS
2	I	573	ASN
2	I	684	ASN
2	I	1061	GLN
2	I	1116	HIS
2	I	1220	GLN
2	I	1268	GLN
3	J	309	ASN
3	J	341	ASN
3	J	364	HIS
3	J	419	HIS
3	J	450	HIS
3	J	465	GLN
3	J	477	GLN
3	J	489	ASN
3	J	545	HIS
3	J	594	GLN
3	J	665	GLN
3	J	690	ASN
3	J	700	ASN
3	J	720	ASN
3	J	736	GLN

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Mol	Chain	Res	Type
3	J	777	HIS
3	J	865	HIS
3	J	875	ASN
3	J	962	ASN
3	J	979	ASN
3	J	1098	GLN
3	J	1114	GLN
3	J	1218	HIS
3	J	1326	GLN
3	J	1350	ASN
4	K	43	ASN
4	K	60	ASN
4	K	70	GLN
5	L	210	ASN
5	L	258	GLN
5	L	406	GLN
5	L	472	GLN
5	L	568	ASN
1	M	41	ASN
1	M	66	HIS
1	M	75	GLN
1	M	147	GLN
1	M	208	ASN
1	N	18	GLN
1	N	75	GLN
1	N	208	ASN
2	O	46	GLN
2	O	150	HIS
2	O	314	ASN
2	O	343	HIS
2	O	447	HIS
2	O	494	ASN
2	O	513	GLN
2	O	658	GLN
2	O	766	ASN
2	O	798	GLN
2	O	1313	HIS
3	P	113	HIS
3	P	153	ASN
3	P	157	GLN
3	P	232	ASN
3	P	294	ASN

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Mol	Chain	Res	Type
3	P	309	ASN
3	P	341	ASN
3	P	419	HIS
3	P	450	HIS
3	P	458	ASN
3	P	465	GLN
3	P	593	ASN
3	P	665	GLN
3	P	690	ASN
3	P	716	GLN
3	P	736	GLN
3	P	936	HIS
3	P	1019	ASN
3	P	1023	HIS
3	P	1098	GLN
3	P	1114	GLN
3	P	1259	GLN
3	P	1279	GLN
3	P	1289	ASN
3	P	1295	ASN
3	P	1326	GLN
4	Q	43	ASN
5	R	129	GLN
5	R	383	ASN
5	R	455	HIS
5	R	464	ASN
5	R	472	GLN
5	R	518	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	3	2/4 (50%)	1 (50%)	0
8	6	3/4 (75%)	1 (33%)	1 (33%)
8	9	3/4 (75%)	1 (33%)	1 (33%)
All	All	8/12 (66%)	3 (37%)	2 (25%)

All (3) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
8	3	15	G

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Mol	Chain	Res	Type
8	6	15	G
8	9	15	G

All (2) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
8	6	13	GTP
8	9	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
7	2	3
6	4	3
7	5	3
7	8	1
6	7	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	45:DT	O3'	46:DG	P	5.04
1	7	50:DT	O3'	51:DC	P	4.24
1	8	22:DA	O3'	23:DT	P	3.80
1	2	22:DA	O3'	23:DT	P	3.79
1	5	22:DA	O3'	23:DT	P	3.79
1	4	50:DT	O3'	51:DC	P	3.32
1	2	51:DG	O3'	52:DT	P	2.84
1	4	36:DT	O3'	37:DA	P	2.77
1	2	12:DG	O3'	13:DA	P	2.74
1	5	12:DG	O3'	13:DA	P	2.72
1	5	51:DG	O3'	52:DT	P	2.37

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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, 95th 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 ²)	Q<0.9
1	A	230/242 (95%)	-0.13	3 (1%) 77 68	153, 175, 210, 235	0
1	B	228/242 (94%)	-0.18	2 (0%) 84 77	162, 194, 217, 238	0
1	G	230/242 (95%)	0.05	6 (2%) 56 47	157, 185, 217, 248	0
1	H	228/242 (94%)	-0.14	2 (0%) 84 77	160, 191, 229, 261	0
1	M	230/242 (95%)	0.05	3 (1%) 77 68	166, 200, 233, 252	0
1	N	228/242 (94%)	0.25	9 (3%) 39 33	186, 233, 258, 273	0
2	C	1341/1342 (99%)	-0.10	12 (0%) 84 77	119, 186, 244, 277	0
2	I	1341/1342 (99%)	-0.10	21 (1%) 72 63	130, 195, 278, 377	0
2	O	1341/1342 (99%)	-0.10	12 (0%) 84 77	144, 183, 235, 270	0
3	D	1362/1407 (96%)	0.16	94 (6%) 16 15	128, 214, 296, 349	0
3	J	1362/1407 (96%)	0.08	56 (4%) 37 32	132, 194, 280, 314	0
3	P	1362/1407 (96%)	0.29	119 (8%) 10 11	148, 208, 292, 330	0
4	E	90/90 (100%)	1.11	28 (31%) 0 1	169, 206, 407, 461	0
4	K	90/90 (100%)	0.42	12 (13%) 3 5	144, 199, 394, 442	0
4	Q	90/90 (100%)	0.67	12 (13%) 3 5	167, 222, 416, 460	0
5	F	497/628 (79%)	0.38	61 (12%) 4 7	182, 294, 404, 418	0
5	L	497/628 (79%)	0.32	56 (11%) 5 8	169, 262, 400, 406	0
5	R	497/628 (79%)	0.26	44 (8%) 9 11	172, 259, 413, 444	0
6	1	49/49 (100%)	0.36	5 (10%) 6 9	201, 272, 311, 317	0
6	4	49/49 (100%)	0.16	3 (6%) 21 19	209, 264, 308, 350	0
6	7	49/49 (100%)	0.23	2 (4%) 37 32	211, 255, 278, 300	0
7	2	49/49 (100%)	0.24	2 (4%) 37 32	215, 278, 312, 343	0
7	5	49/49 (100%)	0.41	4 (8%) 11 12	198, 270, 339, 341	0
7	8	49/49 (100%)	0.22	0 100 100	195, 260, 296, 335	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
8	3	3/4 (75%)	0.55	0 100 100	255, 255, 281, 321	0
8	6	3/4 (75%)	0.38	0 100 100	263, 263, 272, 282	0
8	9	3/4 (75%)	0.75	0 100 100	262, 262, 277, 295	0
All	All	11547/12159 (94%)	0.09	568 (4%) 29 27	119, 203, 358, 461	0

All (568) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	L	210	ASN	8.7
3	P	1068	THR	8.3
3	P	1006	GLY	8.1
5	L	211	SER	7.9
3	D	961	SER	6.8
5	F	318	ALA	6.3
3	D	949	SER	6.1
5	F	160	ASP	6.0
3	D	960	LEU	6.0
3	D	997	VAL	6.0
3	P	1071	GLY	5.9
3	P	713	GLU	5.7
3	P	1072	LYS	5.7
3	P	1005	LYS	5.6
4	E	84	THR	5.6
3	P	949	SER	5.5
3	D	1012	ALA	5.4
5	F	321	ALA	5.4
5	F	319	ALA	5.4
3	J	997	VAL	5.4
3	P	1012	ALA	5.3
5	F	317	ASN	5.2
4	E	83	VAL	5.1
3	D	950	ILE	5.1
3	D	848	VAL	5.1
3	P	1086	ASN	5.1
3	P	1108	GLN	5.1
3	J	949	SER	5.0
5	F	335	GLU	5.0
3	D	1048	ARG	5.0
3	D	959	LYS	5.0
3	P	958	ILE	5.0
6	1	20	DC	4.9

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Mol	Chain	Res	Type	RSRZ
3	P	853	THR	4.9
4	E	78	ALA	4.9
3	D	1015	GLU	4.9
3	J	948	SER	4.9
5	R	154	GLU	4.8
5	L	329	LYS	4.8
3	J	714	GLU	4.7
3	P	149	GLY	4.7
3	J	946	ALA	4.7
5	F	334	SER	4.7
5	F	326	TRP	4.7
4	E	87	ALA	4.6
3	J	1053	LEU	4.6
3	P	1129	GLY	4.6
5	L	289	LYS	4.6
5	R	164	GLY	4.5
5	R	135	ALA	4.5
4	E	88	GLU	4.5
3	D	951	GLN	4.5
3	J	1203	ARG	4.4
5	F	159	SER	4.4
3	P	971	GLY	4.4
4	E	86	ILE	4.4
3	D	1200	GLU	4.4
5	R	242	HIS	4.3
3	J	950	ILE	4.3
5	R	169	ASN	4.3
5	R	244	THR	4.3
3	D	1038	THR	4.3
3	D	998	PRO	4.3
5	L	219	GLU	4.2
5	F	234	THR	4.2
5	L	299	LYS	4.2
5	F	79	ALA	4.2
3	P	972	LYS	4.2
5	F	239	GLY	4.2
3	J	1114	GLN	4.1
3	P	942	SER	4.1
4	E	74	GLU	4.1
5	L	327	SER	4.1
4	E	77	ALA	4.1
3	D	1016	THR	4.0

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Mol	Chain	Res	Type	RSRZ
5	L	317	ASN	4.0
2	I	317	LEU	4.0
3	P	1109	LEU	4.0
3	P	992	LYS	4.0
3	P	1063	ASP	4.0
5	F	157	ARG	4.0
3	D	1013	GLY	4.0
3	P	854	ALA	4.0
5	L	238	LYS	3.9
3	D	154	LEU	3.9
5	L	218	ARG	3.9
3	P	1013	GLY	3.9
5	L	155	GLU	3.9
3	P	997	VAL	3.9
3	D	987	GLU	3.9
4	E	76	GLU	3.9
5	F	296	LYS	3.8
5	F	398	GLY	3.8
5	F	80	ALA	3.8
3	P	1130	GLY	3.8
4	Q	91	ARG	3.8
5	L	212	ILE	3.8
1	N	233	ASP	3.8
3	J	1006	GLY	3.8
5	R	136	GLU	3.8
3	D	1084	GLN	3.8
3	P	1121	LEU	3.8
3	P	714	GLU	3.8
3	P	1064	SER	3.7
3	D	981	GLU	3.7
4	E	90	ARG	3.7
5	F	322	MET	3.7
5	F	171	GLU	3.7
1	B	91	ARG	3.7
3	P	153	ASN	3.7
5	F	311	THR	3.7
5	R	309	ASN	3.7
3	P	708	ASN	3.7
4	E	85	ALA	3.7
3	P	1046	ILE	3.7
3	P	1011	VAL	3.7
3	P	1016	THR	3.7

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Mol	Chain	Res	Type	RSRZ
3	P	1007	ASP	3.7
5	R	170	ALA	3.7
5	F	324	LYS	3.6
5	L	214	PRO	3.6
3	P	996	LYS	3.6
3	D	1158	GLU	3.6
3	P	1073	ASP	3.6
3	D	988	PHE	3.6
3	J	715	LYS	3.6
3	P	1128	SER	3.6
3	P	970	SER	3.6
4	K	90	ARG	3.6
3	P	993	GLU	3.6
4	E	89	GLY	3.6
5	R	166	VAL	3.6
2	I	104	ILE	3.6
3	P	1017	VAL	3.6
5	R	213	ASP	3.6
3	P	148	GLU	3.6
5	R	171	GLU	3.5
3	P	1053	LEU	3.5
5	R	153	ALA	3.5
3	P	1029	THR	3.5
5	F	306	PHE	3.5
3	J	1160	SER	3.5
3	P	1038	THR	3.5
3	P	1066	GLU	3.5
3	J	1054	THR	3.5
5	L	328	GLU	3.5
3	P	176	PHE	3.5
5	L	300	LYS	3.5
4	E	75	GLN	3.5
3	P	1047	THR	3.5
4	K	87	ALA	3.4
3	D	1039	ASP	3.4
3	J	1087	ASP	3.4
5	R	161	LEU	3.4
3	P	1087	ASP	3.4
4	Q	88	GLU	3.4
3	D	149	GLY	3.4
5	F	336	GLU	3.4
3	P	1070	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
5	L	290	LEU	3.4
3	P	1115	ILE	3.4
5	L	215	GLU	3.4
3	J	1033	GLY	3.4
3	P	1133	ASP	3.4
3	P	715	LYS	3.4
3	J	1020	TRP	3.4
3	P	712	GLN	3.4
4	E	71	GLU	3.4
3	D	1201	GLY	3.4
3	P	1212	ASP	3.4
5	F	238	LYS	3.4
3	P	154	LEU	3.4
2	O	107	ARG	3.3
5	F	244	THR	3.3
3	P	987	GLU	3.3
3	P	1067	ARG	3.3
3	J	854	ALA	3.3
3	P	1082	ASP	3.3
3	D	966	VAL	3.3
3	D	1094	ASP	3.3
3	P	852	GLY	3.3
5	R	243	ALA	3.3
3	P	990	ARG	3.3
2	I	623	LEU	3.3
1	A	97	GLU	3.3
5	F	233	ASP	3.3
3	P	709	ARG	3.2
4	E	81	GLN	3.2
3	P	950	ILE	3.2
5	F	247	GLU	3.2
3	D	955	LYS	3.2
5	L	316	PHE	3.2
5	F	248	GLU	3.2
5	L	307	THR	3.2
2	O	106	GLU	3.2
3	D	1125	PRO	3.2
3	J	852	GLY	3.2
3	J	968	ASN	3.2
3	D	972	LYS	3.2
3	P	1116	SER	3.2
3	D	1042	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
5	R	310	GLU	3.2
4	E	39	VAL	3.2
5	R	238	LYS	3.2
3	D	1050	THR	3.2
3	J	1007	ASP	3.2
3	J	853	THR	3.2
4	Q	79	GLU	3.2
3	D	1037	PHE	3.2
3	J	972	LYS	3.2
3	P	1160	SER	3.1
6	1	19	DT	3.1
5	R	212	ILE	3.1
2	C	987	GLU	3.1
3	P	959	LYS	3.1
1	G	90	VAL	3.1
3	D	1043	GLY	3.1
3	D	1017	VAL	3.1
4	K	88	GLU	3.1
2	I	116	ASP	3.1
3	P	995	TYR	3.1
5	L	286	LEU	3.1
5	L	304	THR	3.1
3	P	983	LYS	3.0
5	F	315	TRP	3.0
3	D	715	LYS	3.0
2	I	108	GLU	3.0
3	D	1126	GLN	3.0
4	E	72	GLN	3.0
5	F	328	GLU	3.0
5	F	240	ARG	3.0
5	R	316	PHE	3.0
3	D	996	LYS	3.0
3	P	1018	ALA	3.0
5	F	237	ALA	3.0
3	D	982	LEU	3.0
5	R	168	PRO	3.0
3	J	947	GLU	3.0
2	C	1136	GLN	3.0
5	F	254	GLU	3.0
3	P	1054	THR	3.0
5	L	288	MET	3.0
3	D	1093	THR	2.9

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Mol	Chain	Res	Type	RSRZ
5	L	315	TRP	2.9
6	1	26	DT	2.9
3	D	1074	LEU	2.9
3	D	1111	ASP	2.9
3	P	446	ALA	2.9
3	D	1049	GLN	2.9
5	R	211	SER	2.9
2	I	115	LYS	2.9
3	J	987	GLU	2.9
4	E	79	GLU	2.9
2	I	107	ARG	2.9
3	J	942	SER	2.9
3	P	973	LEU	2.9
5	F	250	LEU	2.9
5	F	325	PRO	2.9
1	N	161	SER	2.9
5	F	230	VAL	2.9
5	R	214	PRO	2.9
5	F	161	LEU	2.9
1	A	92	VAL	2.9
3	D	1004	ALA	2.9
4	E	38	LEU	2.9
5	L	319	ALA	2.9
2	I	113	THR	2.9
3	J	558	ASP	2.9
4	K	84	THR	2.9
2	O	1136	GLN	2.9
3	J	1111	ASP	2.9
3	P	878	ASP	2.9
5	R	160	ASP	2.8
3	J	951	GLN	2.8
1	N	122	GLU	2.8
5	R	247	GLU	2.8
3	P	943	ARG	2.8
5	F	327	SER	2.8
5	L	331	HIS	2.8
5	L	292	VAL	2.8
3	J	1052	GLU	2.8
3	P	1062	LEU	2.8
3	P	1035	VAL	2.8
5	F	169	ASN	2.8
5	L	237	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
5	F	320	ILE	2.8
5	R	165	PHE	2.8
3	D	287	ALA	2.8
4	E	80	LEU	2.8
6	7	49	DG	2.8
5	F	323	ASN	2.8
1	N	70	THR	2.8
3	D	1047	THR	2.8
5	L	82	GLN	2.8
3	D	1086	ASN	2.8
1	G	89	ALA	2.8
2	C	234	ASP	2.8
2	I	234	ASP	2.8
2	C	60	GLN	2.8
4	E	73	GLN	2.8
4	E	37	PRO	2.8
5	F	246	GLN	2.8
1	M	191	ARG	2.8
3	P	1107	VAL	2.8
5	L	217	ALA	2.8
4	E	70	GLN	2.8
4	K	89	GLY	2.8
4	Q	2	ALA	2.7
5	F	396	ASN	2.7
5	F	251	LYS	2.7
5	F	257	LYS	2.7
3	J	1131	THR	2.7
5	F	312	SER	2.7
5	F	330	LEU	2.7
2	I	110	PRO	2.7
3	P	989	GLY	2.7
1	H	95	LYS	2.7
3	D	948	SER	2.7
2	I	622	ASN	2.7
3	P	1030	GLU	2.7
5	R	299	LYS	2.7
4	E	41	GLU	2.7
3	P	953	LYS	2.7
1	G	123	ILE	2.7
3	D	1044	GLN	2.7
3	D	153	ASN	2.7
5	F	329	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
5	R	149	ASP	2.7
6	4	46	DG	2.7
5	L	156	ALA	2.7
4	K	85	ALA	2.7
5	F	332	ASP	2.6
5	L	213	ASP	2.6
3	P	1009	GLU	2.6
5	L	308	GLY	2.6
5	F	294	GLN	2.6
2	O	108	GLU	2.6
3	J	154	LEU	2.6
3	P	952	VAL	2.6
3	P	1015	GLU	2.6
3	P	1110	GLU	2.6
5	R	155	GLU	2.6
5	F	333	VAL	2.6
3	P	1111	ASP	2.6
5	L	254	GLU	2.6
2	O	374	GLU	2.6
3	J	1042	ASP	2.6
3	P	1114	GLN	2.6
3	P	978	ARG	2.6
3	P	994	SER	2.6
5	L	301	ASN	2.6
2	O	243	PRO	2.6
5	F	337	VAL	2.6
5	L	83	VAL	2.6
3	P	968	ASN	2.6
5	R	83	VAL	2.6
4	Q	85	ALA	2.6
3	J	1086	ASN	2.6
3	P	1113	VAL	2.6
3	D	155	GLU	2.6
3	J	856	ILE	2.6
2	I	484	LEU	2.6
7	2	20	DG	2.5
7	5	40	DT	2.5
3	D	1071	GLY	2.5
5	F	158	LEU	2.5
5	R	162	ILE	2.5
2	I	103	VAL	2.5
3	P	1077	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
3	D	64	PRO	2.5
3	D	978	ARG	2.5
3	P	1014	GLY	2.5
4	E	82	ALA	2.5
5	L	302	PHE	2.5
3	P	1120	THR	2.5
2	O	241	LEU	2.5
3	P	955	LYS	2.5
3	J	1110	GLU	2.5
5	L	291	CYS	2.5
1	M	9	LEU	2.5
4	Q	82	ALA	2.5
3	D	1051	ASP	2.5
3	D	176	PHE	2.5
4	Q	81	GLN	2.5
5	L	154	GLU	2.4
5	R	163	THR	2.4
3	P	1043	GLY	2.4
4	Q	83	VAL	2.4
5	L	326	TRP	2.4
1	N	110	VAL	2.4
2	I	293	ALA	2.4
3	D	1006	GLY	2.4
2	C	986	ALA	2.4
3	J	944	ALA	2.4
3	D	1110	GLU	2.4
5	F	170	ALA	2.4
3	D	1375	ALA	2.4
3	J	955	LYS	2.4
3	D	847	ASP	2.4
2	O	703	GLY	2.4
5	R	245	ALA	2.4
3	J	958	ILE	2.4
4	K	59	ILE	2.4
2	O	854	ILE	2.4
3	D	1014	GLY	2.4
4	Q	64	LEU	2.4
3	D	1297	LYS	2.4
5	F	295	CYS	2.4
2	I	441	GLU	2.4
3	D	954	ASN	2.4
3	D	1198	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
3	J	855	ASP	2.4
3	D	703	THR	2.4
4	Q	84	THR	2.4
6	4	19	DT	2.4
2	O	1159	VAL	2.4
7	2	40	DT	2.4
5	L	287	ILE	2.4
3	D	714	GLU	2.4
5	R	308	GLY	2.4
4	Q	87	ALA	2.4
3	P	988	PHE	2.3
5	L	297	MET	2.4
3	D	952	VAL	2.3
1	G	29	GLU	2.3
3	J	1112	GLY	2.3
6	1	21	DC	2.3
2	C	1137	GLU	2.3
3	P	523	GLU	2.3
4	E	56	GLU	2.3
3	P	707	ILE	2.3
5	L	247	GLU	2.3
3	P	974	VAL	2.3
3	D	1360	GLY	2.3
3	J	1050	THR	2.3
5	F	210	ASN	2.3
5	R	246	GLN	2.3
7	5	22	DA	2.3
5	R	157	ARG	2.3
1	N	111	THR	2.3
5	L	298	PRO	2.3
4	E	59	ILE	2.3
5	F	163	THR	2.3
5	L	293	GLU	2.3
5	R	314	THR	2.3
5	R	313	ASP	2.3
3	D	1018	ALA	2.3
3	D	1203	ARG	2.3
3	D	830	ASP	2.3
2	I	292	ILE	2.3
5	F	297	MET	2.3
2	C	984	VAL	2.3
5	L	303	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
5	L	311	THR	2.2
3	P	1085	GLY	2.2
1	A	98	VAL	2.2
3	J	1204	VAL	2.2
3	P	1126	GLN	2.2
5	R	315	TRP	2.2
2	C	985	GLU	2.2
3	P	986	ASP	2.2
3	P	1119	ASP	2.2
3	J	559	ALA	2.2
3	D	1085	GLY	2.2
3	D	1302	TYR	2.2
3	J	1115	ILE	2.2
5	R	248	GLU	2.2
5	R	156	ALA	2.2
1	G	30	PRO	2.2
3	P	207	GLU	2.2
4	K	70	GLN	2.2
5	F	293	GLU	2.2
3	J	1035	VAL	2.2
3	P	1112	GLY	2.2
1	H	98	VAL	2.2
5	L	164	GLY	2.2
5	F	154	GLU	2.2
2	I	747	GLY	2.2
3	D	1007	ASP	2.2
5	L	332	ASP	2.2
3	P	951	GLN	2.2
3	P	686	TRP	2.2
2	I	485	ASP	2.2
3	J	967	VAL	2.2
2	C	241	LEU	2.2
3	D	716	GLN	2.2
3	D	968	ASN	2.2
4	K	91	ARG	2.2
5	L	81	ALA	2.2
3	D	912	GLY	2.2
4	E	43	ASN	2.2
1	N	97	GLU	2.2
3	D	849	LEU	2.2
5	L	79	ALA	2.2
3	D	1202	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
3	J	998	PRO	2.2
3	J	1135	THR	2.2
4	K	83	VAL	2.2
3	P	445	LYS	2.2
3	D	1011	VAL	2.2
3	D	286	ALA	2.2
3	D	962	ASN	2.2
4	Q	89	GLY	2.1
3	P	982	LEU	2.1
3	P	1078	LEU	2.1
3	P	1135	THR	2.1
6	7	50	DT	2.1
5	R	241	SER	2.1
3	J	1030	GLU	2.1
3	D	983	LYS	2.1
3	D	1024	THR	2.1
3	D	1159	ILE	2.1
3	J	1113	VAL	2.1
5	F	298	PRO	2.1
3	P	657	ALA	2.1
6	1	27	DC	2.1
2	C	282	VAL	2.1
3	D	1123	ARG	2.1
3	P	965	SER	2.1
5	L	110	LEU	2.1
3	D	1019	ASN	2.1
4	K	78	ALA	2.1
3	D	1005	LYS	2.1
3	J	560	ASN	2.1
5	L	80	ALA	2.1
5	L	325	PRO	2.1
7	5	39	DG	2.1
3	P	91	GLU	2.1
3	D	953	LYS	2.1
3	J	1161	GLY	2.1
3	P	81	ARG	2.1
3	D	1165	PHE	2.1
3	D	1189	MET	2.1
2	C	281	ASP	2.1
3	P	177	ASP	2.1
1	N	176	CYS	2.1
3	J	708	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	1054	THR	2.1
1	M	91	ARG	2.1
5	L	233	ASP	2.1
2	O	109	ALA	2.1
3	J	971	GLY	2.1
5	R	82	GLN	2.1
3	J	1133	ASP	2.1
1	N	129	VAL	2.0
3	P	1021	ASP	2.0
3	D	965	SER	2.0
3	J	1019	ASN	2.0
1	B	95	LYS	2.0
4	K	69	ARG	2.0
3	P	1213	GLY	2.0
2	I	65	ASN	2.0
2	I	743	PRO	2.0
5	L	170	ALA	2.0
3	D	1092	GLY	2.0
5	L	330	LEU	2.0
1	G	122	GLU	2.0
5	R	210	ASN	2.0
2	O	240	GLU	2.0
3	P	1122	ALA	2.0
2	C	781	ASP	2.0
5	F	243	ALA	2.0
5	R	251	LYS	2.0
3	P	991	THR	2.0
7	5	21	DG	2.0
2	I	318	SER	2.0
6	4	45	DT	2.0
3	P	150	GLY	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. The B-factors column lists the minimum, median, 95th 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	B-factors(\AA^2)	Q<0.9
9	ZN	J	1501	1/1	0.88	0.15	200,200,200,200	0
10	MG	6	101	1/1	0.88	0.33	189,189,189,189	0
10	MG	P	1503	1/1	0.91	0.15	194,194,194,194	0
9	ZN	D	1502	1/1	0.94	0.11	212,212,212,212	0
9	ZN	P	1501	1/1	0.95	0.10	214,214,214,214	0
10	MG	D	1503	1/1	0.95	0.16	176,176,176,176	0
9	ZN	D	1501	1/1	0.97	0.09	228,228,228,228	0
9	ZN	P	1502	1/1	0.98	0.17	187,187,187,187	0
9	ZN	J	1502	1/1	0.98	0.12	174,174,174,174	0

6.5 Other polymers [i](#)

There are no such residues in this entry.