



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:49 AM GMT

PDB ID : 2O5I
Title : Crystal structure of the T. thermophilus RNA polymerase elongation complex
Authors : Vassylyev, D.G.; Tahirov, T.H.; Vassylyeva, M.N.
Deposited on : 2006-12-06
Resolution : 2.50 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

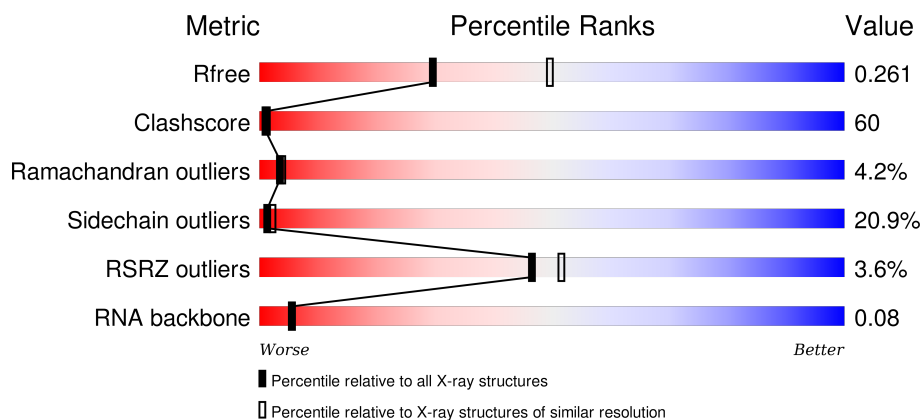
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	3553 (2.50-2.50)
Clashscore	102246	4242 (2.50-2.50)
Ramachandran outliers	100387	4156 (2.50-2.50)
Sidechain outliers	100360	4158 (2.50-2.50)
RSRZ outliers	91569	3562 (2.50-2.50)
RNA backbone	2183	1172 (3.00-2.00)

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. 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	G	23	
1	X	23	
2	H	16	
2	Y	16	

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Mol	Chain	Length	Quality of chain
3	I	14	<div><div></div><div>36%50%7%7%</div></div>
3	Z	14	<div><div></div><div>29%57%7%7%</div></div>
4	A	315	<div><div></div><div>2%19%45%9%27%</div></div>
4	B	315	<div><div></div><div>4%22%42%8%27%</div></div>
4	K	315	<div><div></div><div>2%22%42%9%27%</div></div>
4	L	315	<div><div></div><div>5%26%37%9%27%</div></div>
5	C	1119	<div><div></div><div>4%22%57%19%.</div></div>
5	M	1119	<div><div></div><div>3%25%59%15%.</div></div>
6	D	1524	<div><div></div><div>3%20%51%13%.15%</div></div>
6	N	1524	<div><div></div><div>2%24%48%12%.15%</div></div>
7	E	99	<div><div></div><div>3%24%54%15%..</div></div>
7	O	99	<div><div></div><div>6%25%49%19%..</div></div>

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 52719 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 DNA chain called 5'-D(P*CP*CP*CP*TP*GP*TP*CP*TP*GP*GP*CP*GP*TP*TP*CP*GP*CP*GP*CP*GP*CP*GP*CP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	G	23	Total	C	N	O	P	0	0	0
			467	220	80	144	23			
1	X	23	Total	C	N	O	P	0	0	0
			467	220	80	144	23			

- Molecule 2 is a RNA chain called 5'-R(P*GP*AP*GP*UP*CP*UP*GP*CP*GP*GP*CP*GP*CP*GP*CP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	16	Total	C	N	O	P	0	0	0
			347	153	64	114	16			
2	Y	16	Total	C	N	O	P	0	0	0
			347	153	64	114	16			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	I	13	Total	C	N	O	P	0	0	0
			270	126	57	74	13			
3	Z	13	Total	C	N	O	P	0	0	0
			270	126	57	74	13			

- Molecule 4 is a protein called DNA-directed RNA polymerase alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
4	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
4	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

- Molecule 5 is a protein called DNA-directed RNA polymerase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
5	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

- Molecule 6 is a protein called DNA-directed RNA polymerase beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	D	1303	Total	C	N	O	S	0	0	0
			10280	6508	1821	1919	32			
6	N	1303	Total	C	N	O	S	0	0	0
			10280	6508	1821	1919	32			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	E	95	Total	C	N	O	S	0	0	0
			770	491	133	142	4			
7	O	95	Total	C	N	O	S	0	0	0
			770	491	133	142	4			

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	D	2	Total	Zn	0	0
			2	2		
8	N	2	Total	Zn	0	0
			2	2		

- Molecule 9 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	D	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	N	1	Total 1	Mg 1	0	0

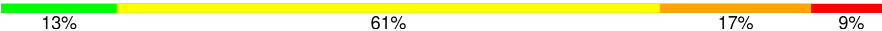
- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	144	Total 144	O 144	0	0
10	B	159	Total 159	O 159	0	0
10	C	658	Total 658	O 658	0	0
10	D	760	Total 760	O 760	0	0
10	E	70	Total 70	O 70	0	0
10	G	22	Total 22	O 22	0	0
10	H	18	Total 18	O 18	0	0
10	I	36	Total 36	O 36	0	0
10	K	132	Total 132	O 132	0	0
10	L	121	Total 121	O 121	0	0
10	M	575	Total 575	O 575	0	0
10	N	750	Total 750	O 750	0	0
10	O	61	Total 61	O 61	0	0
10	X	25	Total 25	O 25	0	0
10	Y	16	Total 16	O 16	0	0
10	Z	16	Total 16	O 16	0	0

3 Residue-property plots

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

- Molecule 1: 5'-D(P*CP*CP*CP*TP*GP*TP*CP*TP*GP*GP*CP*GP*TP*TP*CP*GP*CP*GP*CP*GP*CP*CP*G)-3'

Chain G: 



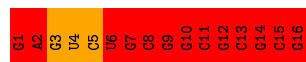
- Molecule 1: 5'-D(P*CP*CP*CP*TP*GP*TP*CP*TP*GP*GP*CP*GP*TP*TP*CP*GP*CP*GP*CP*GP*CP*CP*G)-3'

Chain X: 



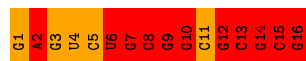
- Molecule 2: 5'-R(P*GP*AP*GP*UP*CP*UP*GP*CP*GP*GP*CP*GP*CP*GP*CP*G)-3',

Chain H: 



- Molecule 2: 5'-R(P*GP*AP*GP*UP*CP*UP*GP*CP*GP*GP*CP*GP*CP*GP*CP*G)-3',

Chain Y: 




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

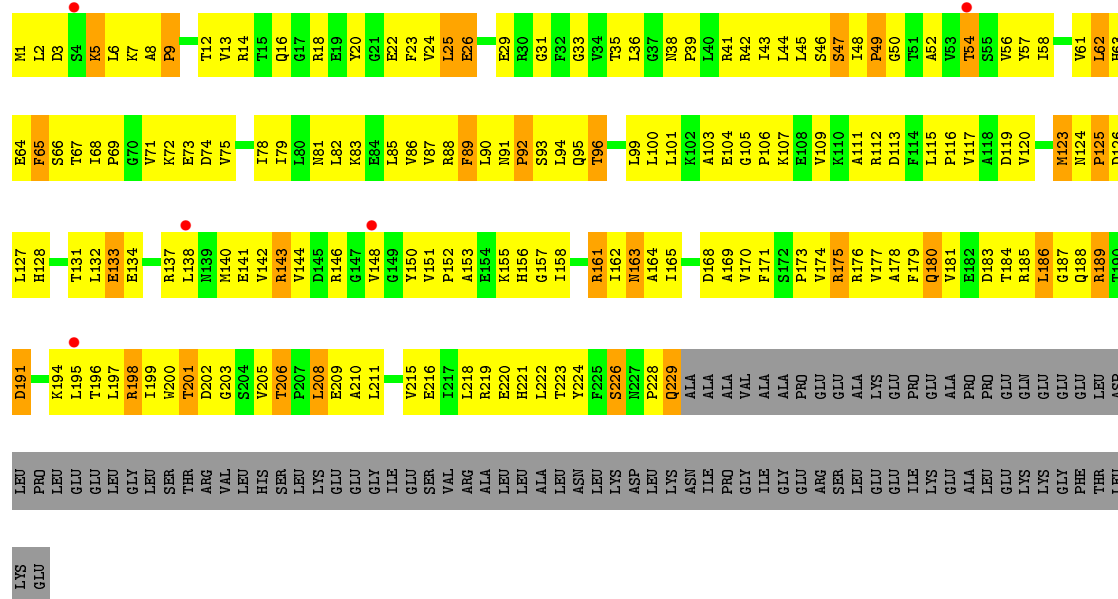
Chain I: 

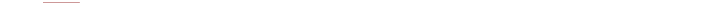


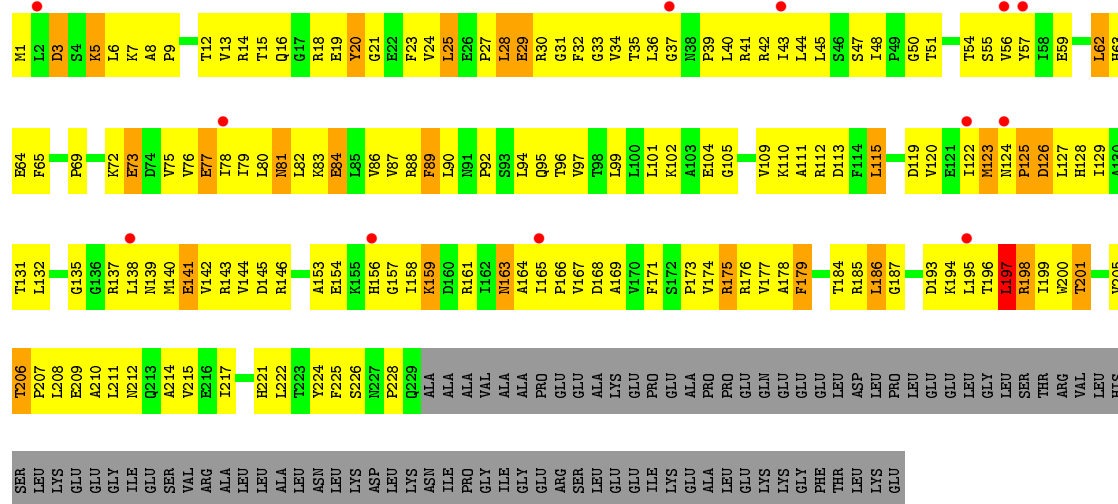
- Molecule 3: 5'-D(*AP*AP*CP*GP*CP*CP*AP*GP*AP*CP*AP*GP*GP*G)-3'

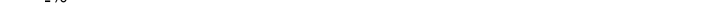


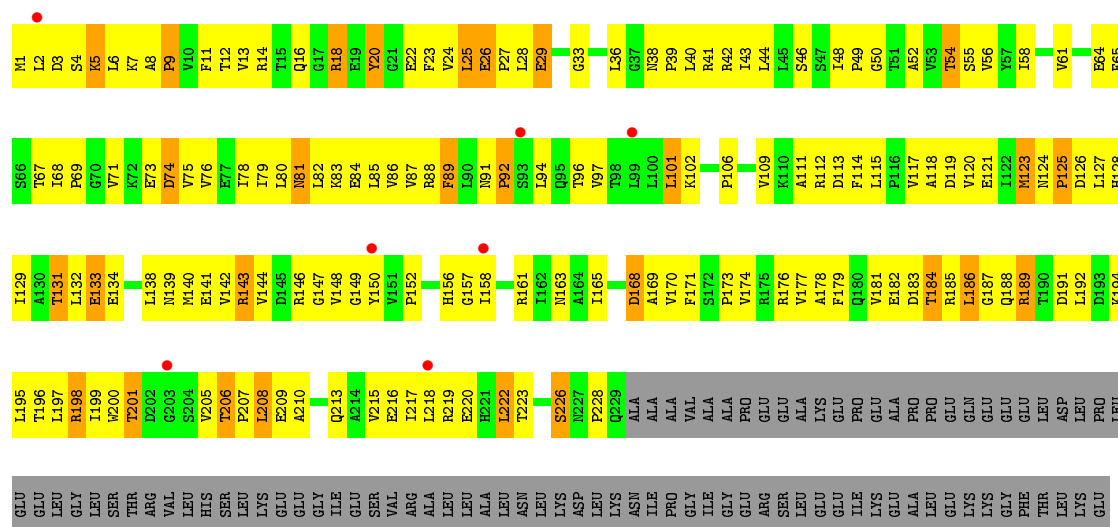
- Chain A: 



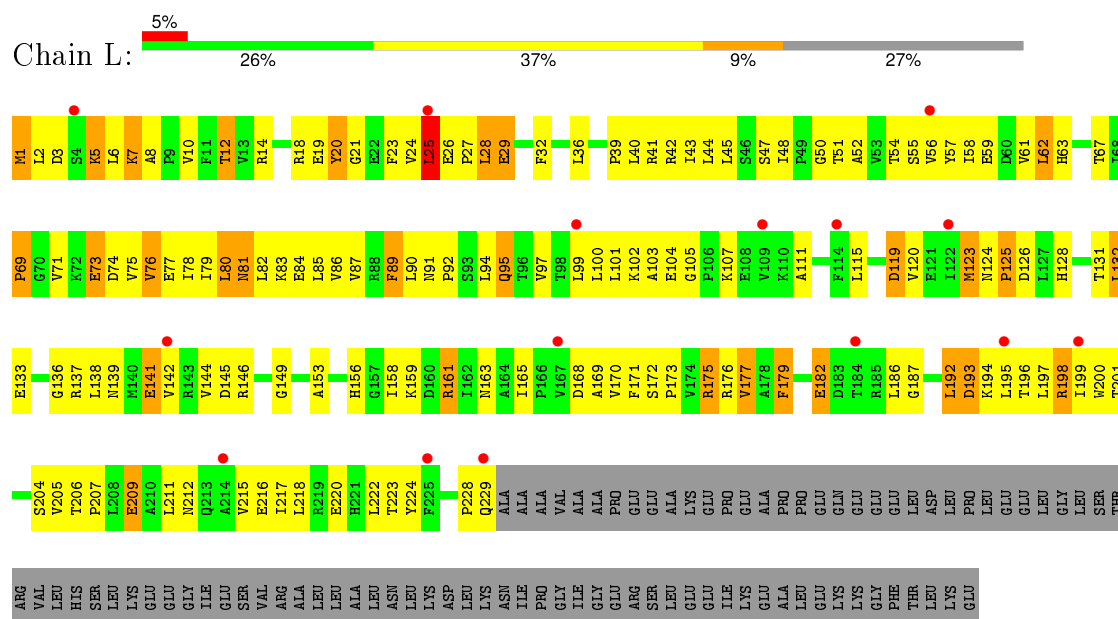
- Chain B: 



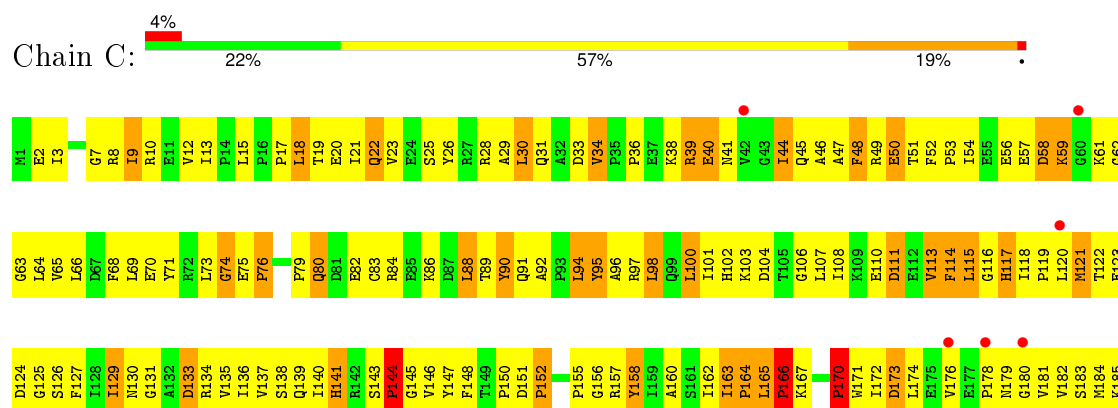
- Chain K: 



• Molecule 4: DNA-directed RNA polymerase alpha chain



• Molecule 5: DNA-directed RNA polymerase beta chain



A1065	K1004	L944	R879	P817	L755	E685	V623	L559	A497	H434	K371	R308	P248	V186
A1066	H1005	R945	R880	G818	V756	D686	P624	L559	Q498	H435	L372	Y309	K249	M187
Y1087	H1006	R946	R881	H819	G757	A687	L625	S562	Q499	G436	N373	L310	R250	K188
	A1007	R947	L882	R820	R758	I688	R626	N563	M500	R437	N374	F311	D251	R189
I1071	R1008	G883	G883	R821	T759	V689	R627	N564	T501	I438	S375	A312	K252	K190
E1074	S1009	K948	Q884	B822	S760	I690	T628	Q565	P502	C439	R376	L313	A253	F191
D1075	T1010	L885	L885	R823	F761	S691	V629	T566	L503	P440	P377	T314	V254	P192
D1076	G1011	G951	L886	R824	K762	E692	R630	Q567	M506	V441	L378	A315	A255	L193
L1076	P1012	L952	E887	R825	G763	E693	S631	Q568	R507	T443	E379	P318	V256	V194
P1077	L1013	V953	R826	R827	E764	L694	Q632	V569			A380	G319	V257	L196
E1078	S1014	T954	R827	R828	S765	L695	Q633	P570			A381	H320	V258	L197
P1079	L1015	P955	A828	Q829	E766	K696	Q634	L571			R383	E321	G259	L198
	H1016	G956	L832	Q829	P767	R697	T635	I572			F386	V322	L260	R198
S1084	T1017	K957	A893		T768	D698	A636	R573			S387	D323	L261	V199
F1085	Q1018	T958		R832	P769	F699	L637	A574			F388		A262	L200
F1086	Q1019	P959	L833	R834	E770	T701	D638	Q575			S387	H327	P264	Y202
L1087	P1020	E960	R834	Q834	R771	S702	Q639	A576			L391	L328	R265	D203
L1088	L1021	E961	R835	R772	E772	T703	R640	P577			Q393	L328	R266	Q204
V1089	G1022	Q962	R836	L773	L773	I703	P841	V578			L206	R330	E267	E205
K1090	G1023	R900	R837	L774	L774	H704	R642	K518			F394	R332	L268	L206
L1091	K1024	Y901	R838	R775	R775	I705	R643	Q519			K395	I333	G270	A208
L1092	A1025	I902	L839	S776	I777	E706	V644	P521				R334	L269	L207
L1093	Q1026	S903	R840	I777	I777	R707	V645	P522				T335	E271	R209
L1094	F1027	P904	R841	G778	G778	I710	Q646	A459				R336	A272	E210
L1095	G1028	I905	R842	G779	E780		E647	R460				G337	G273	L211
L1096	G1029	F906					R648	E585				E338	R274	G212
L1097	Q1030	D907	R845	R781	K781	R713	V649	R586			N399	D462	G275	L212
T1101	R1031	Q908	R846	R782	R782	E720	R650	V587			P400	F463	R275	A213
L1102	F1032	A909	R847	R783	T715	R721	D657	A597			L401	R345	L281	Q219
D1103	G1033	R910	R848	R784	K716	T723	G652	V534			S402	R408	G282	G220
E1104	E1034	L974	R849	R785	L717	T723	R659	G658			S403	V346	L283	G215
K1105	R1035	Y975	R850	K786	L718	R724	A660	D600			R405	G347	L284	E216
D1106	E1036	D976	R851	D787	L718	R725	L654	L592			L405	D342	E278	L217
M1107	L1037	G977	R852	T788	L788	I726	L655	G601			H406	Q343	K280	V218
V1108	P1038	R978	L853	R789	A656		D657	E502			K407	F344	L281	Q219
V1109	A1039	T979	R854	L790	G658		R658	E598			R409	R346	G282	G220
D1110	L1040	G980	R855	R791	R659		R659	E599			I410	V346	L283	L221
I1111	E1041	E981	R856	V792	R659		A660	D600			S411	G347	L284	N222
F1112	F1042	P982	D857	P793							A412	L348	L285	D223
E1113			D858					G601			A412	A349	S286	E224
G1114	A1045	P984	R859					E538			L413	R350	G287	S225
L1115	A1046	Y925	R860					Q538			G415	L351	R288	V226
	H1047	F926	R861					F540			P415	A352	T289	F227
T1048	L1048	G927	R862					S541			G416	R353	L290	A228
L1049	Q1050	K928	D863					V542			G417	G354	V229	R230
Q1051	E1051	R930	T865					M543			L418	V355	A291	R230
M1052	M1052	P866	R866					T544			T419	R356	F293	P231
L1053	T1053	E932	V867					L546			R420	R357	E294	
T1054	L1054	G933	R868					P548			E421	R358	D295	A234
L1055	L1055	F934	R869					I611			R422	M359	G296	L235
K1056	K1056	G935	R870					R614			F425	L360	E297	L236
S1057	S1057	V936	L871					L550			G424	M361	F298	R237
D1058	D1058	L937	R872					E551			D426	G362	R299	L238
M1059	T1059	R938	R873					H552			F426	S363	D300	F239
T1060	T1060	R939	R874					E616			D428	E364	E301	T240
E1061	E1061	E940	G875					D617			R428	D365	V302	L241
G1062	G1062	Y941	R876					G618			D429	S366	F303	L242
L1063	L1063	E942	R877					R619			V430	L367	L304	R243
M1064	M1064	V943	K816					M556			H494	P368	P305	P244
								V621			R495	P369	T306	G245
								E622			L496	A370	L307	

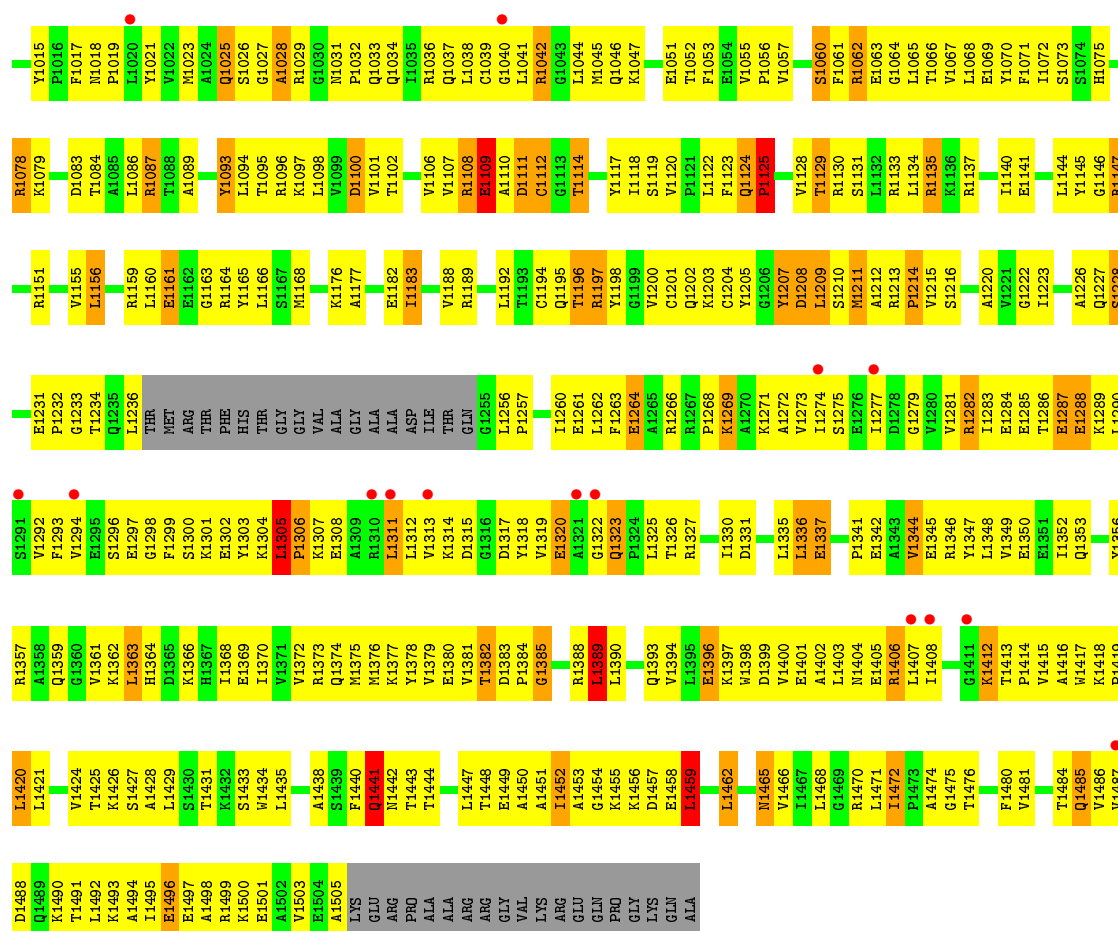
Chain M:











4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	156.21Å 156.21Å 499.23Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.50 19.99 – 2.50	Depositor EDS
% Data completeness (in resolution range)	90.2 (20.00-2.50) 83.7 (19.99-2.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.95 (at 2.50Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.238 , 0.267 0.238 , 0.261	Depositor DCC
R_{free} test set	19570 reflections (5.74%)	DCC
Wilson B-factor (Å ²)	54.7	Xtriage
Anisotropy	0.093	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 124.1	EDS
Estimated twinning fraction	0.149 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtriage
Outliers	0 of 340880 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	52719	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.95% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 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	G	1.12	2/520 (0.4%)	1.17	5/798 (0.6%)
1	X	1.05	1/520 (0.2%)	1.13	2/798 (0.3%)
2	H	1.84	1/387 (0.3%)	2.39	37/601 (6.2%)
2	Y	1.31	1/387 (0.3%)	2.56	40/601 (6.7%)
3	I	0.94	1/304 (0.3%)	0.89	0/467
3	Z	0.84	1/304 (0.3%)	0.90	0/467
4	A	0.74	0/1838	0.82	1/2498 (0.0%)
4	B	0.76	0/1838	0.79	3/2498 (0.1%)
4	K	0.72	0/1838	0.82	1/2498 (0.0%)
4	L	0.72	0/1838	0.80	4/2498 (0.2%)
5	C	0.78	0/8997	0.93	17/12164 (0.1%)
5	M	0.79	1/8997 (0.0%)	0.93	20/12164 (0.2%)
6	D	0.83	9/10452 (0.1%)	0.92	21/14116 (0.1%)
6	N	0.80	2/10452 (0.0%)	0.91	15/14116 (0.1%)
7	E	0.85	1/784 (0.1%)	1.18	6/1057 (0.6%)
7	O	0.82	1/784 (0.1%)	1.08	5/1057 (0.5%)
All	All	0.82	21/50240 (0.0%)	0.97	177/68398 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	G	0	5
1	X	0	3
2	H	0	2
2	Y	0	3
3	I	0	1
3	Z	0	1
All	All	0	15

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	1	G	OP3-P	25.71	1.92	1.61
6	D	133	ILE	N-CA	9.15	1.64	1.46
6	D	132	TYR	CA-C	8.40	1.74	1.52
1	X	1	DC	OP3-P	-8.00	1.51	1.61
1	G	1	DC	OP3-P	-7.45	1.52	1.61
6	D	456	MET	N-CA	6.67	1.59	1.46
6	D	455	ARG	CA-C	6.42	1.69	1.52
5	M	1061	GLU	CB-CG	6.29	1.64	1.52
6	D	134	VAL	N-CA	6.20	1.58	1.46
6	D	59	ALA	CA-CB	-6.19	1.39	1.52
6	N	133	ILE	N-CA	5.87	1.58	1.46
7	O	94	PRO	N-CA	5.75	1.57	1.47
7	E	94	PRO	N-CA	5.64	1.56	1.47
6	D	132	TYR	N-CA	5.45	1.57	1.46
2	Y	1	G	O3'-P	-5.39	1.54	1.61
6	D	455	ARG	N-CA	5.38	1.57	1.46
3	I	3	DA	P-O5'	5.37	1.65	1.59
1	G	18	DG	N9-C4	-5.29	1.33	1.38
6	D	132	TYR	CD2-CE2	5.29	1.47	1.39
3	Z	3	DA	P-O5'	5.14	1.64	1.59
6	N	132	TYR	CA-C	5.07	1.66	1.52

All (177) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	2	A	N9-C1'-C2'	-18.13	90.43	114.00
7	E	94	PRO	CA-N-CD	-16.74	88.07	111.50
2	Y	3	G	O4'-C1'-N9	-13.31	97.55	108.20
2	H	7	G	N9-C1'-C2'	-11.21	99.43	114.00
2	Y	7	G	N9-C1'-C2'	-11.05	99.63	114.00
2	Y	14	G	N9-C1'-C2'	-10.13	100.83	114.00
2	H	9	G	N9-C1'-C2'	-10.03	100.97	114.00
2	H	2	A	N9-C1'-C2'	-9.95	101.06	112.00
2	Y	9	G	N9-C1'-C2'	-9.69	101.34	112.00
6	N	1389	LEU	CA-CB-CG	9.58	137.34	115.30
2	H	14	G	N9-C1'-C2'	-9.50	101.55	112.00
2	H	12	G	O4'-C1'-N9	9.45	115.76	108.20
5	M	243	ARG	C-N-CD	-9.42	99.88	120.60
2	H	11	C	N1-C1'-C2'	-9.30	101.77	112.00
2	Y	10	G	N9-C1'-C2'	-9.11	101.98	112.00
2	Y	11	C	N1-C1'-C2'	-9.11	101.98	112.00
2	H	10	G	N9-C1'-C2'	-9.10	101.99	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	260	LEU	CA-CB-CG	9.06	136.14	115.30
7	O	94	PRO	N-CA-C	8.87	135.16	112.10
5	C	18	LEU	CA-CB-CG	-8.65	95.40	115.30
2	Y	12	G	O4'-C1'-N9	8.60	115.08	108.20
5	C	455	LEU	CA-CB-CG	8.57	135.00	115.30
2	H	9	G	O4'-C1'-N9	8.54	115.03	108.20
6	N	73	CYS	CA-CB-SG	8.37	129.07	114.00
5	M	409	ARG	NE-CZ-NH1	8.36	124.48	120.30
7	O	94	PRO	CA-N-CD	-8.32	99.85	111.50
2	Y	9	G	O4'-C1'-N9	8.30	114.84	108.20
7	E	94	PRO	N-CA-C	8.23	133.50	112.10
5	C	243	ARG	C-N-CD	-8.03	102.94	120.60
2	Y	5	C	O4'-C1'-N1	7.94	114.55	108.20
2	Y	4	U	O4'-C1'-N1	7.94	114.55	108.20
2	H	11	C	O4'-C1'-N1	7.89	114.52	108.20
2	H	4	U	O4'-C1'-N1	7.75	114.40	108.20
2	H	6	U	O4'-C1'-N1	7.64	114.31	108.20
6	D	73	CYS	CA-CB-SG	7.60	127.68	114.00
2	H	14	G	O4'-C1'-N9	7.55	114.24	108.20
2	H	5	C	O4'-C1'-N1	7.53	114.22	108.20
2	Y	16	G	N9-C1'-C2'	-7.43	103.83	112.00
2	H	13	C	N1-C1'-C2'	-7.39	103.87	112.00
2	H	15	C	O4'-C1'-N1	7.36	114.09	108.20
6	D	1166	LEU	CA-CB-CG	7.26	132.01	115.30
2	Y	6	U	O4'-C1'-N1	7.10	113.88	108.20
2	Y	9	G	C5'-C4'-O4'	-7.01	100.69	109.10
2	H	10	G	O4'-C1'-N9	6.99	113.80	108.20
2	Y	14	G	O4'-C1'-N9	6.98	113.78	108.20
5	C	30	LEU	CA-CB-CG	6.90	131.18	115.30
5	M	861	LEU	CA-CB-CG	6.88	131.12	115.30
2	H	15	C	N1-C1'-C2'	-6.85	104.47	112.00
6	D	851	LEU	CA-CB-CG	-6.84	99.56	115.30
2	Y	11	C	O4'-C1'-N1	6.82	113.65	108.20
5	M	285	LEU	CA-CB-CG	6.81	130.97	115.30
2	H	16	G	N9-C1'-C2'	-6.80	104.52	112.00
6	N	152	LEU	CA-CB-CG	6.79	130.92	115.30
2	Y	3	G	OP1-P-OP2	-6.77	109.44	119.60
5	C	285	LEU	CA-CB-CG	6.77	130.86	115.30
5	C	207	LEU	CA-CB-CG	6.71	130.73	115.30
4	L	80	LEU	CA-CB-CG	6.69	130.69	115.30
2	Y	12	G	N9-C1'-C2'	-6.69	104.64	112.00
2	Y	3	G	C8-N9-C4	-6.63	103.75	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	2	A	P-O3'-C3'	-6.62	111.76	119.70
6	D	1109	GLU	CA-C-N	-6.49	102.93	117.20
1	G	12	DG	OP2-P-O3'	6.46	119.41	105.20
6	D	731	LEU	CA-CB-CG	-6.43	100.50	115.30
2	H	9	G	C5'-C4'-O4'	-6.42	101.40	109.10
2	Y	1	G	OP1-P-OP2	-6.40	110.01	119.60
2	H	13	C	O4'-C1'-N1	6.39	113.31	108.20
5	C	1053	LEU	CA-CB-CG	6.39	130.00	115.30
2	H	3	G	OP1-P-OP2	-6.35	110.08	119.60
2	H	2	A	OP1-P-OP2	-6.30	110.14	119.60
4	L	25	LEU	CA-CB-CG	6.28	129.73	115.30
2	Y	13	C	O4'-C1'-N1	6.27	113.22	108.20
6	N	76	CYS	CA-CB-SG	6.24	125.22	114.00
2	H	1	G	OP1-P-OP2	-6.23	110.25	119.60
2	Y	2	A	C4'-C3'-C2'	6.23	108.83	102.60
4	K	186	LEU	CA-CB-CG	6.22	129.60	115.30
4	B	197	LEU	CA-CB-CG	6.20	129.55	115.30
6	N	1109	GLU	CA-C-N	-6.18	103.60	117.20
2	Y	10	G	O4'-C1'-N9	6.18	113.14	108.20
6	D	456	MET	CB-CA-C	-6.15	98.09	110.40
4	B	115	LEU	CA-CB-CG	6.14	129.43	115.30
6	D	1395	LEU	CA-CB-CG	6.13	129.41	115.30
1	G	18	DG	N9-C1'-C2'	-6.12	100.97	112.60
2	Y	3	G	C5'-C4'-O4'	-6.11	101.77	109.10
6	N	1109	GLU	C-N-CA	6.10	136.96	121.70
2	H	12	G	N9-C1'-C2'	-6.09	105.30	112.00
5	M	946	ARG	NE-CZ-NH1	6.08	123.34	120.30
7	O	93	TYR	C-N-CD	-6.08	107.24	120.60
2	Y	11	C	C4'-C3'-C2'	6.07	108.67	102.60
2	Y	15	C	O4'-C1'-N1	6.06	113.05	108.20
2	H	6	U	C3'-C2'-C1'	6.05	106.34	101.50
6	D	1201	CYS	CA-CB-SG	-6.04	103.13	114.00
2	Y	13	C	N1-C1'-C2'	-6.04	105.36	112.00
6	N	1305	LEU	CA-CB-CG	6.03	129.16	115.30
6	N	1459	LEU	CA-CB-CG	-6.02	101.46	115.30
6	D	1109	GLU	C-N-CA	6.01	136.74	121.70
5	M	290	LEU	CA-CB-CG	5.98	129.05	115.30
2	H	2	A	C3'-C2'-C1'	-5.96	96.73	101.50
2	Y	6	U	C3'-C2'-C1'	5.96	106.27	101.50
2	H	8	C	O4'-C1'-N1	5.94	112.95	108.20
4	A	186	LEU	CA-CB-CG	5.94	128.95	115.30
2	Y	7	G	C4'-C3'-O3'	5.87	124.73	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	1363	LEU	CA-CB-CG	5.87	128.79	115.30
7	E	94	PRO	N-CD-CG	5.87	112.00	103.20
2	Y	8	C	O4'-C1'-N1	5.86	112.89	108.20
4	L	85	LEU	CA-CB-CG	5.84	128.74	115.30
5	M	571	LEU	CA-CB-CG	5.81	128.66	115.30
1	X	18	DG	N9-C1'-C2'	-5.80	101.59	112.60
2	Y	2	A	OP1-P-OP2	-5.78	110.93	119.60
6	N	621	LYS	CA-C-N	5.78	129.91	117.20
5	M	367	LEU	CA-CB-CG	5.77	128.58	115.30
5	C	260	LEU	CA-CB-CG	5.76	128.55	115.30
6	N	637	LEU	CA-CB-CG	5.74	128.51	115.30
6	N	161	LEU	CA-CB-CG	5.74	128.50	115.30
2	H	7	G	C4'-C3'-O3'	5.72	124.43	113.00
2	Y	15	C	N1-C1'-C2'	-5.70	105.73	112.00
6	N	705	ALA	C-N-CD	5.70	140.36	128.40
2	Y	2	A	C3'-C2'-C1'	-5.68	96.95	101.50
2	Y	16	G	O4'-C1'-N9	5.64	112.72	108.20
5	M	815	LEU	CA-CB-CG	5.62	128.23	115.30
5	C	241	LEU	CA-CB-CG	5.62	128.22	115.30
6	D	764	LEU	CA-CB-CG	5.62	128.22	115.30
6	D	152	LEU	CA-CB-CG	5.60	128.18	115.30
6	D	621	LYS	CA-C-N	5.59	129.50	117.20
6	D	1020	LEU	CA-CB-CG	5.58	128.13	115.30
6	D	514	LEU	CA-CB-CG	5.58	128.13	115.30
5	M	244	PRO	CA-N-CD	-5.56	103.72	111.50
5	C	165	LEU	C-N-CD	-5.55	108.38	120.60
5	M	267	TYR	CA-CB-CG	5.55	123.95	113.40
6	N	619	LEU	CA-CB-CG	5.53	128.03	115.30
5	C	58	ASP	C-N-CA	5.52	135.51	121.70
2	H	11	C	C4'-C3'-C2'	5.49	108.08	102.60
6	D	581	LEU	CA-CB-CG	5.48	127.90	115.30
5	M	1035	MET	CB-CG-SD	5.45	128.75	112.40
4	B	90	LEU	CA-CB-CG	5.45	127.84	115.30
1	X	12	DG	OP2-P-O3'	5.43	117.14	105.20
6	D	134	VAL	CB-CA-C	-5.42	101.09	111.40
5	C	728	HIS	CA-C-N	5.42	129.13	117.20
2	Y	1	G	N9-C1'-C2'	5.42	121.04	114.00
2	H	3	G	O4'-C1'-N9	-5.41	103.87	108.20
5	C	861	LEU	CA-CB-CG	5.41	127.74	115.30
2	H	7	G	O4'-C1'-N9	5.41	112.53	108.20
6	D	1086	LEU	CA-CB-CG	-5.40	102.88	115.30
5	M	858	MET	CB-CG-SD	-5.40	96.20	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	58	ASP	C-N-CA	5.38	135.16	121.70
5	C	1092	LEU	CA-CB-CG	-5.38	102.94	115.30
7	E	95	VAL	N-CA-C	5.37	125.49	111.00
7	O	95	VAL	N-CA-CB	-5.36	99.71	111.50
2	H	16	G	O4'-C1'-N9	5.36	112.49	108.20
2	H	16	G	C4'-C3'-O3'	5.34	123.69	113.00
2	Y	14	G	O5'-P-OP2	5.33	117.10	110.70
5	M	728	HIS	CA-C-N	5.31	128.88	117.20
1	G	13	DT	O4'-C4'-C3'	5.30	109.18	106.00
7	E	50	THR	C-N-CA	5.28	134.91	121.70
2	Y	16	G	C2'-C3'-O3'	5.28	122.14	113.70
7	E	94	PRO	CA-CB-CG	-5.27	93.98	104.00
2	Y	14	G	C3'-C2'-C1'	5.22	105.68	101.50
5	C	195	LEU	CB-CG-CD2	-5.21	102.14	111.00
7	O	50	THR	C-N-CA	5.21	134.72	121.70
6	D	58	CYS	CA-CB-SG	5.17	123.31	114.00
6	D	1068	LEU	CA-CB-CG	-5.16	103.43	115.30
6	N	920	LEU	CA-CB-CG	5.14	127.12	115.30
5	M	621	VAL	CB-CA-C	-5.14	101.64	111.40
5	C	165	LEU	C-N-CA	5.12	143.50	122.00
5	M	1004	LYS	C-N-CA	5.12	134.50	121.70
5	C	621	VAL	CB-CA-C	-5.11	101.69	111.40
2	H	5	C	C4'-C3'-O3'	5.11	123.22	113.00
2	Y	1	G	O4'-C4'-C3'	-5.11	98.89	104.00
6	D	1039	CYS	CA-CB-SG	-5.08	104.85	114.00
2	H	14	G	O5'-P-OP2	5.08	116.79	110.70
5	M	98	LEU	CA-CB-CG	5.07	126.96	115.30
5	M	1053	LEU	CA-CB-CG	5.05	126.92	115.30
2	Y	1	G	P-O3'-C3'	5.05	125.76	119.70
1	G	1	DC	OP1-P-OP2	-5.05	112.03	119.60
1	G	12	DG	OP1-P-O3'	-5.04	94.11	105.20
6	D	166	GLN	CA-C-N	-5.04	106.11	117.20
2	H	14	G	C3'-C2'-C1'	5.03	105.52	101.50
4	L	197	LEU	CA-CB-CG	5.01	126.82	115.30

There are no chirality outliers.

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	G	1	DC	Sidechain
1	G	13	DT	Sidechain
1	G	16	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	G	17	DC	Sidechain
1	G	18	DG	Sidechain
2	H	14	G	Sidechain
2	H	15	C	Sidechain
3	I	3	DA	Sidechain
1	X	16	DG	Sidechain
1	X	17	DC	Sidechain
1	X	18	DG	Sidechain
2	Y	1	G	Sidechain
2	Y	14	G	Sidechain
2	Y	15	C	Sidechain
3	Z	3	DA	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	467	0	259	45	0
1	X	467	0	259	34	0
2	H	347	0	174	68	0
2	Y	347	0	175	77	0
3	I	270	0	144	13	0
3	Z	270	0	144	15	0
4	A	1806	0	1861	227	0
4	B	1806	0	1861	179	0
4	K	1806	0	1861	192	0
4	L	1806	0	1861	172	0
5	C	8829	0	8933	1212	0
5	M	8829	0	8933	1123	0
6	D	10280	0	10510	1429	0
6	N	10280	0	10510	1343	0
7	E	770	0	784	104	0
7	O	770	0	784	108	0
8	D	2	0	0	0	0
8	N	2	0	0	0	0
9	D	1	0	0	0	0
9	N	1	0	0	0	0
10	A	144	0	0	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	B	159	0	0	38	0
10	C	658	0	0	189	0
10	D	760	0	0	210	0
10	E	70	0	0	15	0
10	G	22	0	0	4	0
10	H	18	0	0	1	0
10	I	36	0	0	4	0
10	K	132	0	0	39	0
10	L	121	0	0	23	0
10	M	575	0	0	168	0
10	N	750	0	0	226	0
10	O	61	0	0	23	0
10	X	25	0	0	5	0
10	Y	16	0	0	2	0
10	Z	16	0	0	2	0
All	All	52719	0	49053	5880	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 60.

All (5880) 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)
6:D:132:TYR:C	6:D:132:TYR:CA	1.74	1.56
7:O:95:VAL:CG1	10:O:2132:HOH:O	1.89	1.21
2:H:2:A:OP2	6:D:671:LYS:HD2	1.47	1.14
6:D:165:LYS:HB2	6:D:397:LYS:HB2	1.31	1.13
6:N:619:LEU:HD12	6:N:621:LYS:HZ3	1.08	1.12
2:Y:2:A:OP2	6:N:671:LYS:NZ	1.82	1.11
2:H:7:G:H1	5:C:1014:SER:HA	1.18	1.08
2:Y:7:G:N1	5:M:1014:SER:HA	1.69	1.07
7:O:45:ARG:HG2	7:O:46:PRO:HD2	1.35	1.07
7:E:45:ARG:HG2	7:E:46:PRO:HD2	1.34	1.06
5:M:946:ARG:HB3	5:M:946:ARG:HH11	1.18	1.06
4:A:38:ASN:HB2	5:C:980:GLY:HA3	1.31	1.05
4:A:117:VAL:HB	4:A:120:VAL:HG12	1.37	1.05
6:N:455:ARG:HD3	6:N:463:GLN:HG3	1.38	1.05
6:D:501:ALA:HB1	6:D:1453:ALA:HB2	1.39	1.05
2:Y:7:G:H1	5:M:1014:SER:HA	0.92	1.04
6:D:143:ASN:HD21	6:D:145:VAL:HG12	1.22	1.04
6:N:187:LYS:HE2	6:N:199:LEU:HA	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1209:LEU:HD23	6:D:1211:MET:H	1.24	1.03
5:C:854:PRO:HB2	5:C:856:GLU:HG3	1.38	1.03
6:D:133:ILE:HA	6:D:456:MET:HB3	1.37	1.02
5:C:1034:GLU:HB3	6:D:619:LEU:HD22	1.41	1.02
6:N:456:MET:HA	6:N:460:ALA:HB2	1.41	1.02
5:C:358:ARG:HH22	5:C:374:ASN:HB3	1.22	1.01
5:M:1008:ARG:HD2	5:M:1028:GLY:H	1.23	1.01
6:N:501:ALA:HB1	6:N:1453:ALA:HB2	1.40	1.00
2:H:2:A:OP2	6:D:671:LYS:NZ	1.95	1.00
2:H:16:G:H21	6:D:705:ALA:HB1	1.26	0.99
6:D:1275:SER:HB2	6:D:1294:VAL:HG21	1.40	0.99
2:Y:12:G:H8	2:Y:12:G:H5'	1.23	0.99
5:M:1097:LEU:HD22	5:M:1097:LEU:H	1.26	0.99
6:N:1305:LEU:HD12	6:N:1311:LEU:HD22	1.45	0.98
6:D:906:GLN:HB3	6:D:911:LEU:HD11	1.46	0.98
4:B:87:VAL:HG21	4:B:144:VAL:HG11	1.46	0.98
6:D:562:ALA:HB1	6:D:567:ILE:HD11	1.45	0.97
7:E:41:GLU:HA	7:E:45:ARG:HG3	1.45	0.97
2:H:7:G:H21	5:C:1021:LEU:HB2	1.28	0.97
5:M:987:ILE:HG23	6:N:948:THR:HG21	1.43	0.97
6:D:1095:THR:HG23	6:D:1230:GLY:HA3	1.45	0.97
2:Y:2:A:H3'	2:Y:2:A:C8	1.99	0.97
5:M:733:ALA:HB2	6:N:679:ARG:HH12	1.29	0.97
7:O:95:VAL:HG11	10:O:2132:HOH:O	1.57	0.96
5:C:395:LYS:HE2	5:C:403:SER:HB2	1.47	0.96
4:L:32:PHE:HB2	10:L:428:HOH:O	1.64	0.96
1:G:18:DG:H2''	1:G:19:DC:H5'	1.48	0.96
6:N:434:ARG:HB3	6:N:434:ARG:HH11	1.29	0.96
5:M:939:ARG:HA	5:M:939:ARG:HE	1.31	0.96
5:M:141:HIS:HB3	5:M:418:LEU:HG	1.48	0.96
2:Y:12:G:C8	2:Y:12:G:H5'	2.01	0.96
5:C:1016:ILE:HD13	5:C:1016:ILE:H	1.29	0.96
6:N:119:SER:HB2	6:N:123:LEU:HB2	1.47	0.96
5:C:91:GLN:HE22	5:C:383:ARG:HH12	1.13	0.96
6:N:133:ILE:HG12	6:N:456:MET:HB3	1.46	0.95
5:M:1065:ALA:HB1	5:M:1077:PRO:HG2	1.45	0.95
5:M:1034:GLU:HB3	6:N:619:LEU:HD22	1.45	0.95
2:Y:6:U:H2'	2:Y:7:G:C8	2.02	0.95
4:B:94:LEU:HD11	4:B:119:ASP:HB2	1.48	0.95
6:D:31:THR:HB	6:D:527:MET:HE1	1.49	0.95
5:C:939:ARG:HA	5:C:939:ARG:HE	1.32	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:710:ILE:HD11	5:M:758:ARG:HE	1.29	0.95
2:H:12:G:H5'	2:H:12:G:H8	1.29	0.94
1:X:18:DG:H2''	1:X:19:DC:H5'	1.47	0.94
5:M:889:HIS:CE1	6:N:951:ILE:H	1.86	0.94
4:K:117:VAL:HB	4:K:120:VAL:HG12	1.46	0.94
2:H:6:U:H2'	2:H:7:G:C8	2.01	0.94
5:C:292:ARG:HB2	5:C:299:LYS:HE2	1.48	0.94
6:D:1299:PHE:HA	6:N:59:ALA:HB1	1.48	0.94
2:Y:14:G:O2'	2:Y:15:C:H5'	1.68	0.94
4:A:112:ARG:HH21	4:A:125:PRO:HB2	1.31	0.93
5:M:572:ILE:HG23	5:M:703:ILE:HD11	1.48	0.93
7:O:95:VAL:CG2	10:O:3018:HOH:O	2.14	0.93
6:N:32:ILE:HB	10:N:8215:HOH:O	1.67	0.93
5:M:468:ARG:HG2	5:M:487:THR:HA	1.47	0.93
4:A:87:VAL:HG21	4:A:144:VAL:HG11	1.50	0.93
2:H:2:A:OP2	6:D:671:LYS:CD	2.16	0.93
5:M:190:LYS:H	5:M:190:LYS:HD2	1.34	0.93
6:D:164:GLY:CA	6:D:447:VAL:HB	2.00	0.92
2:H:14:G:O2'	2:H:15:C:H5'	1.69	0.92
6:D:1481:VAL:HG11	7:E:18:ARG:HA	1.51	0.92
2:Y:7:G:H1	5:M:1014:SER:CA	1.80	0.92
5:C:478:VAL:HG13	5:C:506:ASN:HB3	1.50	0.92
7:O:95:VAL:HG13	10:O:2132:HOH:O	1.55	0.91
6:N:521:PRO:HB2	6:N:524:LEU:HD13	1.50	0.91
5:M:904:PRO:HD2	5:M:908:GLY:HA2	1.52	0.91
5:M:632:ASN:HB3	5:M:633:GLN:HE21	1.33	0.91
4:L:87:VAL:HG21	4:L:144:VAL:HG11	1.49	0.91
6:D:1298:GLY:HA3	6:N:47:GLU:CD	1.90	0.91
5:M:91:GLN:HE22	5:M:383:ARG:HH12	1.07	0.91
5:M:1031:ARG:HA	6:N:621:LYS:O	1.70	0.90
6:D:1298:GLY:N	6:N:47:GLU:HB2	1.86	0.90
2:Y:4:U:H4'	10:N:8720:HOH:O	1.71	0.90
2:H:12:G:H5'	2:H:12:G:C8	2.06	0.90
6:N:1429:LEU:HG	6:N:1441:GLN:HG3	1.53	0.90
5:M:889:HIS:HE1	6:N:951:ILE:H	0.94	0.90
3:I:3:DA:H4'	10:I:3402:HOH:O	1.72	0.90
5:M:157:ARG:CZ	5:M:314:THR:HB	2.02	0.90
6:D:26:VAL:HG11	6:D:44:LEU:HD23	1.53	0.90
3:Z:3:DA:C2	5:M:422:ARG:HB3	2.06	0.90
5:C:837:ASP:HA	5:C:999:HIS:HE1	1.36	0.89
6:D:133:ILE:CA	6:D:456:MET:HB3	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:409:VAL:HG21	6:D:421:LEU:HD23	1.55	0.89
6:D:521:PRO:HB2	6:D:524:LEU:HD13	1.51	0.89
4:B:83:LYS:HE2	4:B:168:ASP:HB2	1.55	0.89
6:D:1232:PRO:HB3	6:D:1361:VAL:HG21	1.50	0.89
6:N:179:VAL:HG13	6:N:183:GLU:HB3	1.52	0.89
6:D:135:LEU:HD21	6:D:452:ILE:HG13	1.54	0.89
6:N:73:CYS:HB3	6:N:76:CYS:O	1.73	0.89
5:M:92:ALA:HB2	5:M:120:LEU:HD11	1.54	0.89
6:N:1481:VAL:HG11	7:O:18:ARG:HA	1.52	0.89
5:C:478:VAL:HA	5:C:506:ASN:O	1.72	0.89
6:D:507:ASN:HD22	6:D:507:ASN:H	1.14	0.89
5:C:850:ALA:HA	6:D:632:VAL:HG11	1.54	0.89
4:L:86:VAL:HG12	4:L:124:ASN:HD22	1.38	0.89
6:N:525:ARG:HB2	6:N:538:SER:HB3	1.52	0.88
6:N:141:ILE:HG12	6:N:449:SER:HA	1.54	0.88
6:N:18:ILE:HG23	6:N:518:PRO:HG3	1.54	0.88
6:D:1153:VAL:HG13	6:N:561:GLY:HA3	1.55	0.88
6:D:1310:ARG:HE	6:D:1327:ARG:HB3	1.39	0.88
6:D:164:GLY:HA2	6:D:447:VAL:HB	1.52	0.88
6:N:619:LEU:HD12	6:N:621:LYS:NZ	1.88	0.88
6:D:526:PRO:O	6:D:537:THR:HA	1.73	0.88
6:N:867:ARG:HD3	10:N:8065:HOH:O	1.74	0.88
5:M:395:LYS:HE2	5:M:403:SER:HB2	1.52	0.88
5:C:92:ALA:HB2	5:C:120:LEU:HD11	1.55	0.88
7:O:95:VAL:HG23	10:O:3018:HOH:O	1.71	0.88
2:H:5:C:H2'	2:H:6:U:C6	2.09	0.88
6:N:695:ILE:HD11	6:N:718:PRO:HB2	1.53	0.88
1:G:17:DC:H2''	1:G:18:DG:H5'	1.56	0.88
5:M:404:LEU:HA	5:M:407:LYS:HD3	1.54	0.88
6:D:165:LYS:CB	6:D:397:LYS:H	1.86	0.88
6:D:1305:LEU:HD12	6:D:1311:LEU:HD22	1.54	0.88
6:D:95:LEU:HA	6:D:551:ASN:HD21	1.37	0.88
4:A:224:TYR:HB3	4:B:9:PRO:HB2	1.56	0.87
4:K:56:VAL:HG22	4:K:142:VAL:HG12	1.53	0.87
6:N:1129:THR:HG23	6:N:1130:ARG:H	1.38	0.87
6:D:1106:VAL:HG11	6:D:1474:ALA:HB1	1.55	0.87
4:A:14:ARG:HH22	4:A:24:VAL:HG23	1.38	0.87
5:M:362:GLY:HA3	5:M:367:LEU:HD23	1.52	0.87
6:D:1280:VAL:HA	6:D:1318:TYR:HA	1.54	0.87
5:C:768:THR:HB	5:C:771:GLU:HB3	1.55	0.87
6:D:543:LEU:HD22	6:D:580:ALA:HB1	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:166:GLN:HG2	6:D:396:VAL:HG12	1.56	0.87
5:M:939:ARG:HB3	5:M:982:PRO:HG3	1.54	0.87
7:O:41:GLU:HA	7:O:45:ARG:HG3	1.56	0.87
5:M:21:ILE:HD12	5:M:21:ILE:H	1.40	0.87
6:D:871:LYS:NZ	6:N:442:ASN:HD22	1.73	0.87
5:C:36:PRO:HG2	5:C:70:GLU:HB3	1.57	0.87
6:D:1025:GLN:HE21	6:D:1025:GLN:HA	1.40	0.87
5:C:1090:LYS:HZ3	5:C:1112:PHE:HE1	1.23	0.87
6:N:908:LYS:HB2	6:N:1027:GLY:HA3	1.55	0.87
3:Z:8:DA:H5"	10:Z:3042:HOH:O	1.74	0.87
5:C:557:ARG:HH21	5:C:879:ARG:HE	1.21	0.86
6:D:95:LEU:HA	6:D:551:ASN:ND2	1.90	0.86
6:N:637:LEU:HD21	6:N:642:CYS:HA	1.57	0.86
5:M:478:VAL:HA	5:M:506:ASN:O	1.75	0.86
6:D:1297:GLU:HA	6:N:78:VAL:HG22	1.55	0.86
6:D:1281:VAL:HG11	6:D:1313:VAL:HG13	1.54	0.86
6:D:1150:ALA:HA	10:D:8711:HOH:O	1.75	0.86
6:D:433:GLY:HA2	6:D:449:SER:C	1.96	0.86
7:O:92:LEU:HD13	10:O:1649:HOH:O	1.74	0.86
4:A:43:ILE:HD11	4:B:35:THR:HG21	1.57	0.86
6:N:699:VAL:H	6:N:756:GLN:HE22	1.24	0.86
5:C:137:VAL:O	5:C:391:LEU:HD21	1.76	0.86
4:L:97:VAL:HG11	4:L:120:VAL:HG21	1.56	0.86
6:D:481:MET:HE3	6:D:493:ARG:HA	1.56	0.86
5:C:654:LEU:HD23	5:C:654:LEU:H	1.41	0.86
6:D:1410:GLU:HA	10:D:8018:HOH:O	1.76	0.86
6:N:917:GLN:HA	6:N:920:LEU:HD12	1.56	0.86
7:O:27:ALA:CB	7:O:61:VAL:HG12	2.06	0.85
6:D:977:ALA:HB1	6:D:983:LEU:HD21	1.58	0.85
6:D:1278:ASP:OD2	6:N:41:ARG:HB2	1.75	0.85
5:C:191:PHE:HB2	5:C:241:LEU:HD11	1.58	0.85
6:D:119:SER:HB2	6:D:123:LEU:H	1.40	0.85
7:O:54:LEU:HD23	7:O:58:PRO:HD2	1.57	0.85
5:C:579:VAL:HG11	5:C:887:GLU:HG3	1.59	0.85
2:H:16:G:N2	6:D:705:ALA:HB1	1.92	0.85
6:D:857:ILE:HG22	6:D:858:VAL:HG13	1.57	0.85
6:N:645:PRO:HD3	6:N:726:ILE:HG12	1.59	0.85
6:N:924:MET:HE1	6:N:1211:MET:HG3	1.58	0.85
1:G:21:DC:H3'	10:G:2983:HOH:O	1.75	0.85
6:D:95:LEU:HD21	6:D:574:LEU:HD11	1.57	0.85
5:M:65:VAL:HB	5:M:101:ILE:HB	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:27:ALA:CB	7:E:61:VAL:HG12	2.07	0.84
4:K:87:VAL:HG21	4:K:144:VAL:HG11	1.58	0.84
6:N:181:ASP:HB3	6:N:441:ARG:HD3	1.59	0.84
4:K:58:ILE:HB	4:K:61:VAL:HB	1.59	0.84
6:N:543:LEU:HD21	6:N:600:LEU:HD13	1.59	0.84
5:C:837:ASP:HA	5:C:999:HIS:CE1	2.12	0.84
5:C:488:ALA:HB3	10:C:1480:HOH:O	1.77	0.84
6:N:203:ALA:HA	10:N:8545:HOH:O	1.77	0.84
5:M:893:ALA:HB2	5:M:918:LEU:HD12	1.59	0.84
6:N:166:GLN:HG2	6:N:396:VAL:HG12	1.56	0.84
2:Y:5:C:H2'	2:Y:6:U:C6	2.12	0.84
6:D:18:ILE:HG23	6:D:518:PRO:HG3	1.59	0.84
6:D:206:ARG:HG2	6:D:394:LEU:HD22	1.60	0.84
4:A:85:LEU:HA	4:A:124:ASN:HD22	1.43	0.84
5:C:148:PHE:HB2	10:C:1375:HOH:O	1.78	0.84
6:N:398:ALA:HB2	6:N:447:VAL:HA	1.60	0.84
5:M:95:TYR:CD2	5:M:114:PHE:HB3	2.12	0.84
6:D:1129:THR:HG23	6:D:1130:ARG:H	1.42	0.84
2:Y:2:A:H5''	6:N:671:LYS:HZ1	1.41	0.84
5:M:332:ARG:HG3	5:M:465:GLY:HA3	1.58	0.83
6:N:206:ARG:HG2	6:N:394:LEU:HD22	1.60	0.83
5:M:437:ARG:NH2	5:M:488:ALA:HA	1.91	0.83
1:X:17:DC:H2''	1:X:18:DG:H5'	1.59	0.83
6:D:525:ARG:HB2	6:D:538:SER:HB3	1.59	0.83
1:G:21:DC:H1'	10:G:282:HOH:O	1.78	0.83
2:H:7:G:N2	5:C:1021:LEU:HB2	1.92	0.83
2:Y:12:G:H2'	2:Y:13:C:C6	2.13	0.83
6:D:789:LEU:HD13	6:D:934:LEU:HD22	1.59	0.83
6:D:73:CYS:HB3	6:D:76:CYS:O	1.78	0.83
5:C:758:ARG:HB3	5:C:788:THR:O	1.77	0.83
6:D:136:ASP:HB3	6:D:137:PRO:HD3	1.61	0.83
5:M:144:PRO:HG2	5:M:265:ARG:NH1	1.94	0.83
5:M:1005:MET:HE2	6:N:648:MET:HG3	1.61	0.83
6:D:1297:GLU:H	6:N:48:ARG:N	1.77	0.83
5:M:3:ILE:HD13	5:M:900:ARG:HB3	1.60	0.83
6:D:1297:GLU:HB2	6:N:47:GLU:O	1.79	0.82
2:Y:4:U:OP1	6:N:82:LYS:HD3	1.78	0.82
6:N:1476:THR:HG23	7:O:21:VAL:HG22	1.60	0.82
6:N:1042:ARG:O	6:N:1057:VAL:HB	1.79	0.82
6:D:792:ILE:HA	10:D:8543:HOH:O	1.77	0.82
6:D:133:ILE:HA	6:D:456:MET:CB	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:362:GLY:HA3	5:C:367:LEU:HD23	1.60	0.82
6:D:171:LEU:HD23	6:D:172:PRO:HD2	1.58	0.82
2:H:7:G:N1	5:C:1014:SER:HA	1.94	0.82
4:A:39:PRO:O	4:A:43:ILE:HG12	1.79	0.82
5:C:428:ARG:HH12	5:C:449:ILE:H	1.25	0.82
4:K:197:LEU:HD12	4:K:199:ILE:HD11	1.62	0.82
6:D:1184:GLN:HB2	6:N:559:ALA:HB1	1.60	0.82
5:C:252:LYS:HD3	5:C:296:GLY:HA2	1.61	0.82
6:D:1310:ARG:HH21	6:D:1327:ARG:HG2	1.44	0.82
6:D:440:VAL:HG11	10:D:8212:HOH:O	1.80	0.82
6:N:565:ILE:HD12	6:N:565:ILE:H	1.45	0.82
4:B:84:GLU:HG2	4:B:127:LEU:HD11	1.60	0.82
6:N:1385:GLY:HA2	10:N:8082:HOH:O	1.78	0.82
5:M:1053:LEU:HD11	6:N:1466:VAL:HG13	1.61	0.82
2:H:7:G:H21	5:C:1021:LEU:CB	1.93	0.82
6:N:720:LEU:H	6:N:720:LEU:HD12	1.44	0.82
2:H:12:G:H2'	2:H:13:C:C6	2.14	0.82
6:D:52:PRO:HG2	6:D:80:VAL:HG13	1.61	0.82
6:N:185:VAL:HG21	6:N:203:ALA:HB2	1.62	0.82
4:A:73:GLU:H	4:A:73:GLU:CD	1.81	0.82
5:C:1060:ILE:HD13	5:C:1063:ARG:HH21	1.43	0.82
2:Y:2:A:H8	2:Y:2:A:H3'	1.42	0.82
6:D:800:LYS:HD2	6:D:804:LEU:HD22	1.59	0.82
5:M:141:HIS:HB3	5:M:418:LEU:CG	2.09	0.81
5:C:383:ARG:HH11	5:C:383:ARG:HB2	1.43	0.81
4:L:56:VAL:HG13	4:L:142:VAL:HG12	1.62	0.81
6:N:868:TYR:HB2	10:N:8682:HOH:O	1.80	0.81
5:C:632:ASN:HB3	5:C:633:GLN:HE21	1.45	0.81
6:N:108:VAL:HB	6:N:109:PRO:HD3	1.60	0.81
4:B:35:THR:HA	10:B:318:HOH:O	1.79	0.81
5:M:34:VAL:HB	5:M:38:LYS:HG3	1.61	0.81
6:N:838:ARG:HA	10:N:8288:HOH:O	1.79	0.81
5:C:806:LEU:HD21	10:C:1221:HOH:O	1.78	0.81
2:Y:10:G:H2'	2:Y:11:C:C6	2.15	0.81
6:D:116:LEU:HD22	6:D:118:LEU:HG	1.62	0.81
6:N:1379:VAL:HG12	6:N:1419:PRO:HA	1.61	0.81
5:C:1085:PHE:HD2	6:D:1468:LEU:HA	1.44	0.81
6:D:603:LEU:O	6:D:606:ILE:HG22	1.81	0.81
5:C:12:VAL:HB	5:C:472:ARG:HH11	1.46	0.81
4:K:206:THR:HG22	4:K:209:GLU:HG3	1.63	0.81
4:L:28:LEU:O	4:L:192:LEU:HD23	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:161:LEU:HD21	6:N:452:ILE:HD13	1.61	0.80
5:C:281:LEU:HD11	5:C:306:THR:HA	1.61	0.80
6:D:396:VAL:HG21	6:D:445:ARG:HD3	1.61	0.80
6:D:1264:GLU:HG2	6:D:1266:ARG:HH21	1.47	0.80
6:D:1297:GLU:HG3	6:N:78:VAL:HA	1.63	0.80
6:D:28:LYS:HB3	6:D:41:ARG:HD2	1.62	0.80
5:C:103:LYS:HB2	10:C:1122:HOH:O	1.80	0.80
6:D:128:TYR:HE2	6:D:458:ALA:HA	1.44	0.80
4:B:40:LEU:O	4:B:44:LEU:HG	1.81	0.80
5:C:65:VAL:HB	5:C:101:ILE:HB	1.64	0.80
5:C:418:LEU:H	5:C:418:LEU:HD12	1.45	0.80
7:E:27:ALA:HB2	7:E:61:VAL:HG12	1.64	0.80
5:M:110:GLU:HG3	5:M:369:PRO:HG3	1.63	0.80
6:N:116:LEU:HD13	6:N:118:LEU:HD11	1.60	0.80
5:M:612:VAL:HG22	5:M:622:GLU:HA	1.63	0.80
6:D:699:VAL:H	6:D:756:GLN:NE2	1.78	0.80
5:M:643:VAL:HB	10:M:1141:HOH:O	1.82	0.80
6:N:80:VAL:HG12	6:N:81:THR:O	1.82	0.80
6:D:500:ARG:HD3	10:D:8400:HOH:O	1.81	0.80
6:N:1400:VAL:HA	10:N:8468:HOH:O	1.82	0.80
6:N:1475:GLY:HA2	10:N:8173:HOH:O	1.81	0.80
5:C:86:LYS:HB3	5:C:813:VAL:HG23	1.64	0.79
5:M:128:ILE:HG22	10:M:1145:HOH:O	1.81	0.79
4:L:92:PRO:HA	4:L:146:ARG:NH1	1.97	0.79
5:C:904:PRO:HD2	5:C:908:GLY:HA2	1.64	0.79
6:N:133:ILE:O	6:N:152:LEU:HB2	1.81	0.79
5:M:607:ASP:HB3	5:M:610:ARG:H	1.45	0.79
4:K:189:ARG:HG3	4:K:191:ASP:OD1	1.80	0.79
6:D:1042:ARG:O	6:D:1057:VAL:HB	1.83	0.79
6:D:398:ALA:HB2	6:D:447:VAL:HA	1.65	0.79
6:N:890:VAL:HG12	6:N:926:LYS:HE2	1.64	0.79
6:N:453:ASP:HB3	6:N:455:ARG:HH21	1.48	0.79
5:M:12:VAL:HG12	5:M:534:VAL:HG13	1.65	0.79
4:K:178:ALA:HB3	4:K:198:ARG:HG3	1.63	0.79
4:B:194:LYS:HG2	10:B:338:HOH:O	1.81	0.79
5:C:607:ASP:HB3	5:C:610:ARG:H	1.47	0.79
5:M:1008:ARG:HD2	5:M:1028:GLY:N	1.97	0.79
6:D:909:ASN:HB3	10:D:8041:HOH:O	1.81	0.79
5:C:366:SER:HB3	10:C:1573:HOH:O	1.82	0.79
4:A:215:VAL:HG13	4:B:222:LEU:HD22	1.64	0.79
6:N:135:LEU:HD21	6:N:452:ILE:HG13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1404:ASN:ND2	6:D:1408:ILE:HD12	1.98	0.79
6:N:868:TYR:HD1	6:N:869:MET:H	1.29	0.79
6:N:1108:ARG:HB2	10:N:8322:HOH:O	1.82	0.79
6:D:1481:VAL:HG13	7:E:18:ARG:HE	1.48	0.79
4:A:83:LYS:HZ3	4:A:168:ASP:HB2	1.48	0.79
6:N:161:LEU:HD21	6:N:452:ILE:HG21	1.64	0.78
5:C:557:ARG:NH2	5:C:879:ARG:HE	1.80	0.78
5:C:1085:PHE:CD2	6:D:1468:LEU:HA	2.17	0.78
5:C:726:ILE:HG12	5:C:754:ILE:HD12	1.66	0.78
6:D:877:PRO:O	6:D:880:ILE:HG22	1.83	0.78
5:C:155:PRO:HA	10:C:1569:HOH:O	1.83	0.78
2:H:12:G:H2'	2:H:13:C:H6	1.48	0.78
5:M:946:ARG:CB	5:M:946:ARG:HH11	1.95	0.78
6:N:603:LEU:O	6:N:606:ILE:HG22	1.83	0.78
5:C:404:LEU:HA	5:C:407:LYS:HD3	1.64	0.78
5:C:573:ARG:HB2	5:C:670:GLN:HE22	1.49	0.78
5:M:719:PRO:HD3	10:M:1672:HOH:O	1.83	0.78
6:D:179:VAL:HG13	6:D:183:GLU:HB3	1.65	0.78
2:H:6:U:H2'	2:H:7:G:N7	1.98	0.78
6:N:996:TRP:HA	6:N:999:THR:HG22	1.64	0.78
5:M:468:ARG:HB3	10:M:1264:HOH:O	1.83	0.78
5:M:91:GLN:NE2	5:M:383:ARG:HH22	1.81	0.78
7:O:27:ALA:HB2	7:O:61:VAL:HG12	1.66	0.78
5:C:408:ARG:HH21	5:C:455:LEU:HD12	1.48	0.78
6:N:581:LEU:HD23	6:N:581:LEU:H	1.46	0.78
5:C:917:LEU:HA	10:C:1699:HOH:O	1.84	0.78
6:N:403:PHE:HB3	10:N:8493:HOH:O	1.83	0.78
5:C:216:GLU:HB3	10:C:1714:HOH:O	1.82	0.78
1:X:16:DG:OP1	5:M:1031:ARG:HD3	1.84	0.78
4:A:117:VAL:HB	4:A:120:VAL:CG1	2.13	0.78
5:C:487:THR:HB	5:C:490:GLU:HG3	1.65	0.78
5:M:872:ASN:HD21	5:M:874:LEU:HB2	1.46	0.78
4:B:206:THR:HG22	4:B:209:GLU:H	1.48	0.78
6:D:1173:LEU:HD12	6:D:1176:LYS:NZ	1.99	0.78
4:A:79:ILE:HG21	4:A:165:ILE:HD11	1.65	0.78
5:M:837:ASP:HA	5:M:999:HIS:CE1	2.18	0.78
4:A:7:LYS:HD2	4:A:186:LEU:HD11	1.65	0.78
2:Y:6:U:H2'	2:Y:7:G:N7	1.99	0.78
5:C:290:LEU:HB3	5:C:302:VAL:HG11	1.66	0.78
6:D:1296:SER:HA	6:N:48:ARG:HB2	1.65	0.78
5:M:151:ASP:HB2	5:M:157:ARG:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:462:ASP:HB3	5:C:468:ARG:HD2	1.66	0.78
5:C:245:GLY:HA2	10:C:1742:HOH:O	1.83	0.78
5:C:198:ARG:HB3	10:C:1589:HOH:O	1.83	0.78
6:N:393:ILE:HG12	10:N:8635:HOH:O	1.82	0.77
6:D:996:TRP:HA	6:D:999:THR:HG22	1.66	0.77
6:N:526:PRO:O	6:N:537:THR:HA	1.84	0.77
4:K:117:VAL:HB	4:K:120:VAL:CG1	2.13	0.77
5:C:21:ILE:HD12	5:C:21:ILE:H	1.47	0.77
5:C:141:HIS:HB3	5:C:418:LEU:HD23	1.64	0.77
5:C:1003:ASP:CG	6:D:724:GLN:HE22	1.87	0.77
5:M:91:GLN:HE22	5:M:383:ARG:NH1	1.80	0.77
6:N:24:GLY:HA3	6:N:49:ILE:HG12	1.66	0.77
6:D:817:GLU:HG3	6:D:839:LEU:HD23	1.65	0.77
5:M:861:LEU:HD23	5:M:863:ASP:H	1.50	0.77
6:D:1258:ARG:HH21	6:D:1351:GLU:HG2	1.48	0.77
5:M:896:PHE:O	5:M:924:VAL:HG11	1.85	0.77
5:M:328:LEU:HD23	5:M:437:ARG:HD3	1.67	0.77
6:N:143:ASN:HD21	6:N:145:VAL:HG12	1.48	0.77
6:N:1287:GLU:HB2	10:N:8567:HOH:O	1.84	0.77
5:C:91:GLN:HE22	5:C:383:ARG:NH1	1.83	0.77
6:D:1379:VAL:HG12	6:D:1419:PRO:HA	1.65	0.77
5:C:893:ALA:HB2	5:C:918:LEU:HD12	1.64	0.77
4:K:52:ALA:HA	10:K:1487:HOH:O	1.83	0.77
6:N:813:LEU:O	6:N:817:GLU:HB2	1.84	0.77
6:N:1205:TYR:CD2	6:N:1215:VAL:HG21	2.20	0.77
5:M:810:ASP:HB3	5:M:813:VAL:HG12	1.64	0.77
4:K:89:PHE:HB3	4:K:94:LEU:HD13	1.67	0.77
4:L:79:ILE:HG21	4:L:165:ILE:HD11	1.67	0.77
5:M:1046:ALA:HB1	6:N:1471:LEU:HD11	1.66	0.77
6:N:422:ALA:HB3	10:N:8493:HOH:O	1.84	0.76
2:Y:2:A:C3'	2:Y:2:A:C8	2.62	0.76
7:E:36:LYS:NZ	7:E:45:ARG:HH22	1.82	0.76
6:D:486:ARG:HA	6:D:489:ARG:HG2	1.68	0.76
5:C:453:THR:HG21	10:C:1499:HOH:O	1.84	0.76
5:M:958:THR:HG23	5:M:961:GLU:HG3	1.67	0.76
5:M:405:ARG:HD3	5:M:543:ASN:OD1	1.86	0.76
5:C:542:VAL:HB	10:C:1620:HOH:O	1.85	0.76
6:N:764:LEU:HD12	6:N:765:SER:N	2.00	0.76
5:M:762:LYS:HD2	5:M:786:LYS:HB2	1.67	0.76
6:D:799:LYS:HB3	6:D:826:PRO:HG2	1.64	0.76
5:C:199:VAL:HG11	10:C:1318:HOH:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:144:PRO:HG2	5:M:265:ARG:HH12	1.50	0.76
5:C:517:ARG:HB3	10:C:1354:HOH:O	1.86	0.76
6:N:171:LEU:HD23	6:N:172:PRO:HD2	1.68	0.76
6:D:1299:PHE:HA	6:N:59:ALA:CB	2.16	0.76
5:M:36:PRO:HG2	5:M:70:GLU:HB3	1.66	0.76
6:N:619:LEU:HB2	6:N:621:LYS:HD3	1.68	0.76
5:C:1032:PHE:O	5:C:1036:GLU:HB2	1.86	0.76
6:N:527:MET:HG2	10:N:8215:HOH:O	1.85	0.76
6:D:78:VAL:HG12	6:D:80:VAL:HG22	1.67	0.76
6:N:393:ILE:HG22	10:N:8545:HOH:O	1.86	0.76
5:C:1009:SER:HB3	6:D:651:GLU:O	1.85	0.76
6:N:976:GLN:O	6:N:980:MET:HG2	1.85	0.76
5:M:312:ALA:HB1	5:M:318:PRO:HG2	1.68	0.76
6:D:1292:VAL:HG23	6:D:1305:LEU:HG	1.65	0.76
6:N:30:GLU:HB3	6:N:40:GLU:HG2	1.65	0.76
5:M:332:ARG:HA	5:M:465:GLY:O	1.86	0.76
5:C:1007:ALA:HB1	6:D:652:LEU:HD13	1.65	0.76
6:N:977:ALA:HB1	6:N:983:LEU:HD21	1.65	0.76
5:M:628:PHE:HB2	10:M:1205:HOH:O	1.86	0.76
6:N:799:LYS:HB3	6:N:826:PRO:HG2	1.66	0.76
6:N:675:ARG:HD3	10:N:8386:HOH:O	1.85	0.76
2:H:10:G:H2'	2:H:11:C:C6	2.20	0.76
6:N:699:VAL:H	6:N:756:GLN:NE2	1.84	0.76
2:H:9:G:C8	2:H:9:G:H5'	2.20	0.75
6:D:695:ILE:HD11	6:D:718:PRO:HB2	1.68	0.75
6:D:565:ILE:HD12	6:D:565:ILE:H	1.48	0.75
5:C:626:ARG:H	5:C:639:GLN:NE2	1.83	0.75
1:G:12:DG:H2'	1:G:13:DT:H71	1.69	0.75
5:C:862:PRO:HB3	5:C:929:ARG:HH22	1.50	0.75
6:D:699:VAL:H	6:D:756:GLN:HE22	1.34	0.75
5:M:857:ASP:HB2	5:M:978:ARG:HG2	1.67	0.75
6:N:177:ALA:HB3	6:N:205:TYR:OH	1.85	0.75
4:L:74:ASP:HB3	6:N:872:ARG:NH2	2.01	0.75
5:C:957:LYS:HD3	5:C:961:GLU:HB3	1.67	0.75
6:N:1109:GLU:OE1	6:N:1201:CYS:HB2	1.86	0.75
6:D:1292:VAL:HG12	10:D:8213:HOH:O	1.87	0.75
6:D:1209:LEU:HD21	7:E:16:LYS:NZ	2.01	0.75
6:D:9:ARG:NH1	6:D:11:ALA:HB2	2.02	0.75
5:C:691:SER:HB2	5:C:858:MET:SD	2.27	0.75
5:C:557:ARG:HH21	5:C:879:ARG:NE	1.84	0.75
5:C:101:ILE:HG23	5:C:107:LEU:HD22	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:806:PHE:CE1	6:D:813:LEU:HB3	2.21	0.75
5:C:651:LYS:HB3	10:C:1581:HOH:O	1.87	0.75
1:X:23:DG:H2''	10:X:2177:HOH:O	1.87	0.75
5:C:1076:VAL:HG13	10:C:1237:HOH:O	1.86	0.75
6:N:41:ARG:HD3	6:N:42:ASP:N	2.01	0.75
7:O:45:ARG:HG2	7:O:46:PRO:CD	2.16	0.75
5:M:221:LEU:HG	5:M:222:MET:HG3	1.67	0.75
5:M:1118:LYS:HA	6:N:23:TYR:OH	1.85	0.75
6:D:1293:PHE:HB2	6:N:75:ARG:O	1.87	0.75
5:M:157:ARG:NH1	5:M:314:THR:HB	2.02	0.75
5:C:520:GLU:HB2	10:C:1354:HOH:O	1.86	0.75
5:C:729:LEU:HD13	6:D:675:ARG:NH1	2.01	0.75
4:B:186:LEU:HD23	10:B:400:HOH:O	1.85	0.75
5:M:733:ALA:HB2	6:N:679:ARG:NH1	2.02	0.75
6:D:832:ARG:HA	6:D:832:ARG:CZ	2.16	0.75
7:E:45:ARG:HG2	7:E:46:PRO:CD	2.17	0.75
6:D:141:ILE:HG13	6:D:142:LEU:H	1.52	0.75
6:N:692:GLU:OE1	6:N:720:LEU:HD13	1.87	0.75
5:M:176:VAL:HG12	5:M:182:VAL:HG13	1.68	0.75
4:A:14:ARG:HH21	4:A:22:GLU:HB3	1.52	0.75
6:N:159:ARG:HA	10:N:8174:HOH:O	1.87	0.75
5:C:64:LEU:HD22	5:C:359:MET:HG3	1.66	0.75
5:C:65:VAL:HG11	10:C:1635:HOH:O	1.86	0.75
5:M:1059:ASP:OD2	5:M:1079:PRO:HA	1.86	0.75
6:D:1277:ILE:O	6:D:1294:VAL:HG11	1.86	0.75
2:Y:9:G:H2'	2:Y:10:G:C8	2.21	0.75
5:C:91:GLN:NE2	5:C:383:ARG:HH12	1.85	0.75
6:N:868:TYR:CD1	6:N:869:MET:HG3	2.22	0.74
6:N:810:GLU:O	6:N:813:LEU:HG	1.87	0.74
5:M:255:ALA:HB2	10:M:1194:HOH:O	1.86	0.74
4:K:74:ASP:O	4:K:78:ILE:HG13	1.87	0.74
5:M:137:VAL:O	5:M:391:LEU:HD21	1.87	0.74
5:M:201:GLY:HA2	10:M:1210:HOH:O	1.87	0.74
5:M:946:ARG:NH2	6:N:861:GLN:HE22	1.86	0.74
6:N:116:LEU:HD11	6:N:464:LEU:HD13	1.69	0.74
6:D:17:LYS:HG2	6:D:21:TRP:HE1	1.52	0.74
6:N:907:GLU:HG2	6:N:909:ASN:H	1.51	0.74
6:D:1156:LEU:HD12	6:D:1176:LYS:HE3	1.69	0.74
5:M:126:SER:HA	10:M:1208:HOH:O	1.85	0.74
4:B:178:ALA:HB3	4:B:198:ARG:HG3	1.68	0.74
6:N:62:LYS:HA	6:N:62:LYS:HE2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:128:TYR:CE2	6:N:461:ILE:HG13	2.22	0.74
6:N:764:LEU:HD12	6:N:765:SER:H	1.52	0.74
1:G:14:DT:H2''	1:G:15:DC:H5'	1.68	0.74
5:C:248:PRO:HB3	10:C:1460:HOH:O	1.88	0.74
5:C:857:ASP:HB2	5:C:978:ARG:HG2	1.69	0.74
5:M:689:VAL:HG12	10:M:1243:HOH:O	1.87	0.74
6:D:446:VAL:HG13	10:D:8185:HOH:O	1.87	0.74
7:O:40:LEU:HD21	7:O:67:GLU:HA	1.69	0.74
6:D:1016:PRO:HG2	10:D:8706:HOH:O	1.86	0.74
5:C:176:VAL:HG12	5:C:182:VAL:HG13	1.68	0.74
5:M:191:PHE:HB2	5:M:241:LEU:HD11	1.68	0.74
6:N:41:ARG:HD3	6:N:42:ASP:H	1.52	0.74
5:M:185:LYS:HG2	5:M:190:LYS:HG3	1.68	0.74
5:C:329:GLY:HA2	10:C:1480:HOH:O	1.88	0.74
6:N:1379:VAL:HA	6:N:1420:LEU:HB2	1.67	0.74
4:A:94:LEU:HD21	4:A:119:ASP:HB2	1.69	0.74
5:M:274:ARG:HG3	5:M:285:LEU:HD22	1.70	0.74
6:D:515:GLU:HB2	10:D:8570:HOH:O	1.86	0.74
6:D:1295:GLU:HG3	6:N:77:GLY:N	2.01	0.74
5:C:1107:ASN:HA	10:C:1245:HOH:O	1.87	0.74
5:C:689:VAL:HB	5:C:870:ILE:HG13	1.69	0.74
6:N:1313:VAL:HB	10:N:8650:HOH:O	1.88	0.74
6:N:1364:HIS:ND1	6:N:1366:LYS:HG3	2.02	0.74
5:C:89:THR:O	5:C:91:GLN:HG3	1.88	0.74
6:D:1000:THR:O	6:D:1003:VAL:HG12	1.88	0.74
4:B:110:LYS:HD3	4:B:126:ASP:HA	1.70	0.74
6:D:15:PRO:HG3	10:D:8075:HOH:O	1.86	0.74
5:C:546:LEU:HD13	5:C:565:GLN:HE22	1.49	0.74
5:C:261:ILE:H	5:C:261:ILE:HD12	1.53	0.74
5:M:752:GLY:H	5:M:792:VAL:HB	1.52	0.74
6:N:431:VAL:HG13	10:N:8674:HOH:O	1.86	0.74
6:D:954:ALA:HB1	6:D:1039:CYS:SG	2.28	0.74
6:N:619:LEU:CD1	6:N:621:LYS:HZ3	1.95	0.74
10:K:1599:HOH:O	4:L:43:ILE:HD11	1.88	0.74
2:H:9:G:H2'	2:H:10:G:C8	2.24	0.73
6:N:9:ARG:NH1	6:N:11:ALA:HB2	2.03	0.73
6:N:838:ARG:HH21	6:N:863:VAL:HG11	1.53	0.73
5:C:896:PHE:O	5:C:924:VAL:HG11	1.87	0.73
5:M:384:GLU:HA	5:M:388:ARG:HD3	1.70	0.73
6:D:165:LYS:HB2	6:D:397:LYS:CB	2.17	0.73
6:D:785:ILE:HD12	6:D:785:ILE:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:177:VAL:O	5:C:864:GLY:HA2	1.86	0.73
5:M:275:TYR:CD2	5:M:276:LYS:HG3	2.23	0.73
5:C:545:ASN:HB3	5:C:583:LEU:HD22	1.68	0.73
10:M:1215:HOH:O	6:N:1079:LYS:HA	1.86	0.73
6:N:700:VAL:HG22	6:N:718:PRO:HG3	1.70	0.73
4:K:67:THR:HG21	5:M:609:ASN:HD21	1.53	0.73
6:N:996:TRP:O	6:N:1000:THR:HG22	1.88	0.73
6:D:814:ALA:HB1	6:D:818:ARG:HH21	1.53	0.73
6:N:1438:ALA:O	6:N:1443:THR:HG22	1.88	0.73
5:M:399:ASN:HD22	5:M:568:ALA:HB3	1.54	0.73
6:D:1282:ARG:HB3	6:N:75:ARG:O	1.89	0.73
5:C:278:GLU:HB3	10:C:1535:HOH:O	1.87	0.73
6:N:806:PHE:CE1	6:N:813:LEU:HB3	2.23	0.73
1:X:14:DT:H5'	1:X:14:DT:H6	1.53	0.73
6:D:135:LEU:HD11	6:D:452:ILE:HD11	1.70	0.73
2:Y:12:G:H2'	2:Y:13:C:H6	1.51	0.73
4:L:94:LEU:HD11	4:L:119:ASP:HB2	1.69	0.73
5:C:218:VAL:HB	10:C:1739:HOH:O	1.88	0.73
5:C:762:LYS:HD2	5:C:786:LYS:HB2	1.70	0.73
6:N:1102:THR:O	6:N:1222:GLY:HA3	1.89	0.73
4:B:176:ARG:HB3	10:B:456:HOH:O	1.88	0.73
6:D:690:ALA:O	6:D:694:VAL:HG23	1.89	0.73
6:D:421:LEU:HD22	6:D:444:VAL:HG11	1.71	0.73
6:D:161:LEU:HD21	6:D:452:ILE:HG21	1.71	0.73
5:C:409:ARG:HA	5:C:454:SER:HA	1.69	0.73
5:M:275:TYR:HD2	5:M:276:LYS:HG3	1.52	0.73
6:N:1413:THR:HG21	10:N:8082:HOH:O	1.88	0.73
6:N:409:VAL:HB	10:N:8414:HOH:O	1.88	0.73
6:D:996:TRP:O	6:D:1000:THR:HG22	1.89	0.73
5:C:606:VAL:HG11	5:C:643:VAL:O	1.88	0.73
5:C:847:GLY:HA2	6:D:741:ASP:HA	1.71	0.73
5:C:164:PRO:HB2	10:C:1650:HOH:O	1.87	0.73
6:D:1300:SER:HB3	6:N:76:CYS:HB2	1.70	0.73
6:D:586:ARG:NH1	6:D:1444:THR:HG21	2.03	0.73
5:C:285:LEU:HD23	5:C:285:LEU:O	1.87	0.73
5:C:328:LEU:HD22	5:C:433:THR:HB	1.69	0.73
6:D:788:GLY:O	6:D:792:ILE:HG22	1.88	0.73
5:C:700:TYR:HB3	10:C:1724:HOH:O	1.88	0.73
6:N:1037:GLN:HG2	6:N:1042:ARG:HB3	1.69	0.73
5:C:1008:ARG:HH12	5:C:1011:GLY:N	1.87	0.73
6:D:832:ARG:NE	6:D:832:ARG:HA	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:46:SER:HB2	10:M:1413:HOH:O	1.88	0.73
5:C:945:ARG:HD3	10:D:8055:HOH:O	1.87	0.73
6:D:165:LYS:HB3	6:D:397:LYS:H	1.53	0.73
7:E:36:LYS:HE2	7:E:36:LYS:HA	1.69	0.73
5:M:676:ILE:HG21	5:M:988:VAL:HG22	1.71	0.73
5:M:198:ARG:HD2	5:M:204:GLN:HE21	1.53	0.73
6:D:715:ALA:HB3	6:D:764:LEU:HA	1.71	0.73
4:A:46:SER:HB3	5:C:856:GLU:HG2	1.71	0.72
4:A:206:THR:HG22	4:A:209:GLU:H	1.54	0.72
5:C:244:PRO:HD2	5:C:245:GLY:H	1.53	0.72
6:D:799:LYS:O	6:D:826:PRO:HD2	1.89	0.72
4:L:223:THR:HA	10:L:367:HOH:O	1.88	0.72
5:C:1097:LEU:HD22	5:C:1097:LEU:H	1.52	0.72
4:A:226:SER:O	4:A:228:PRO:HD3	1.89	0.72
6:D:654:LYS:HB3	6:D:655:PRO:HD3	1.69	0.72
6:D:114:THR:HA	10:D:8276:HOH:O	1.88	0.72
1:G:16:DG:OP1	5:C:1031:ARG:HD3	1.89	0.72
5:C:757:GLY:HA2	5:C:789:SER:HB3	1.70	0.72
5:M:953:VAL:HG11	5:M:962:GLN:HB3	1.70	0.72
6:D:1429:LEU:HG	6:D:1441:GLN:HG3	1.71	0.72
5:M:372:LEU:HD11	10:M:1598:HOH:O	1.89	0.72
5:C:312:ALA:HB1	5:C:318:PRO:HG2	1.69	0.72
4:K:88:ARG:HB3	10:K:3559:HOH:O	1.88	0.72
6:N:832:ARG:HG2	10:N:8081:HOH:O	1.88	0.72
6:N:179:VAL:HG21	6:N:189:GLN:HE22	1.54	0.72
4:A:198:ARG:HH12	5:C:929:ARG:HD3	1.53	0.72
6:D:16:GLU:HB3	10:D:8693:HOH:O	1.90	0.72
5:C:185:LYS:HG2	5:C:190:LYS:HG3	1.71	0.72
7:E:30:LEU:O	7:E:35:PHE:HA	1.88	0.72
5:C:979:THR:HG23	5:C:981:GLU:H	1.54	0.72
6:D:202:VAL:HG11	6:D:445:ARG:HE	1.55	0.72
5:C:854:PRO:HB2	5:C:856:GLU:CG	2.19	0.72
5:M:768:THR:HB	5:M:771:GLU:HB3	1.71	0.72
6:N:1101:VAL:HG21	6:N:1424:VAL:HG23	1.71	0.72
6:D:657:LEU:HD13	6:D:691:LEU:HD13	1.69	0.72
5:M:711:GLU:HG2	5:M:822:VAL:HG12	1.72	0.72
5:C:838:LYS:HG2	10:C:1132:HOH:O	1.89	0.72
5:M:950:LEU:HD23	10:M:1556:HOH:O	1.90	0.72
6:D:90:MET:HB3	10:D:8234:HOH:O	1.89	0.72
5:C:626:ARG:H	5:C:639:GLN:HE21	1.35	0.72
5:C:182:VAL:HG11	5:C:193:LEU:HD22	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:727:PRO:HG3	5:C:783:ARG:HH21	1.55	0.72
4:A:68:ILE:HA	10:A:425:HOH:O	1.87	0.72
6:D:1168:MET:HA	6:D:1168:MET:HE3	1.72	0.72
2:Y:11:C:H2'	2:Y:12:G:C8	2.25	0.72
5:M:304:LEU:HD23	5:M:305:PRO:HD3	1.70	0.72
6:N:409:VAL:HG23	6:N:421:LEU:HA	1.70	0.72
6:D:1283:ILE:HD11	6:D:1314:LYS:HA	1.72	0.72
6:N:785:ILE:HD12	6:N:785:ILE:H	1.55	0.72
5:C:290:LEU:HB3	5:C:302:VAL:CG1	2.19	0.72
6:N:799:LYS:O	6:N:826:PRO:HD2	1.90	0.72
5:M:191:PHE:HZ	5:M:196:LEU:HB2	1.55	0.72
6:D:1147:ARG:HB3	6:D:1188:VAL:HG21	1.70	0.72
6:N:58:CYS:SG	6:N:59:ALA:N	2.62	0.72
6:D:145:VAL:HG22	6:D:146:PRO:HD2	1.71	0.72
6:D:1487:VAL:HG11	6:D:1492:LEU:HD23	1.71	0.72
7:E:33:HIS:HB2	7:E:37:ASN:ND2	2.05	0.72
6:N:1293:PHE:HD2	6:N:1300:SER:HB2	1.53	0.72
6:D:1281:VAL:HG22	10:D:8213:HOH:O	1.88	0.72
6:D:143:ASN:HA	10:D:8153:HOH:O	1.90	0.72
6:N:1128:VAL:HB	6:N:1133:ARG:NH2	2.05	0.72
4:A:176:ARG:NH1	5:C:865:THR:HB	2.05	0.72
5:M:45:GLN:HE21	5:M:49:ARG:HH12	1.38	0.72
5:M:606:VAL:HG23	10:M:1481:HOH:O	1.90	0.72
5:C:198:ARG:HD2	5:C:204:GLN:NE2	2.04	0.72
5:M:759:THR:HG22	10:M:1588:HOH:O	1.90	0.72
7:E:13:VAL:HG21	7:E:19:LEU:HB2	1.71	0.71
6:D:41:ARG:NH1	6:D:42:ASP:HB2	2.05	0.71
6:D:1106:VAL:HG11	6:D:1474:ALA:CB	2.20	0.71
6:N:23:TYR:O	6:N:49:ILE:HG23	1.90	0.71
6:D:1161:GLU:HG2	6:D:1164:ARG:HB2	1.72	0.71
6:D:1288:GLU:HG2	6:D:1289:LYS:HG3	1.72	0.71
4:B:48:ILE:HD12	4:B:174:VAL:HG21	1.71	0.71
6:D:455:ARG:HB2	10:D:8155:HOH:O	1.89	0.71
6:N:51:GLY:HA3	6:N:86:ARG:HA	1.71	0.71
5:M:118:ILE:HG22	5:M:382:ILE:HD13	1.72	0.71
6:N:539:ASP:HB3	6:N:600:LEU:HB3	1.72	0.71
5:C:25:SER:OG	5:C:335:THR:HB	1.90	0.71
6:N:783:ARG:HE	6:N:1029:ARG:HG3	1.53	0.71
6:D:1295:GLU:HG3	6:N:77:GLY:H	1.55	0.71
5:M:1111:ILE:HG13	5:M:1112:PHE:H	1.55	0.71
6:D:80:VAL:HG12	6:D:81:THR:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:976:ASP:HB3	5:C:979:THR:HG22	1.72	0.71
5:M:675:ALA:HA	5:M:989:VAL:HG12	1.70	0.71
5:M:492:ASP:HB3	5:M:518:LYS:HD2	1.71	0.71
6:D:1401:GLU:HA	10:D:8379:HOH:O	1.91	0.71
6:N:1118:ILE:HG13	6:N:1192:LEU:HD12	1.72	0.71
5:C:1037:VAL:HG13	5:C:1049:LEU:HD11	1.70	0.71
4:A:42:ARG:NH1	4:B:34:VAL:HB	2.04	0.71
6:D:723:GLY:HA3	10:D:8323:HOH:O	1.88	0.71
6:N:804:LEU:HB2	6:N:830:ALA:O	1.90	0.71
6:D:1047:LYS:NZ	6:D:1053:PHE:HA	2.05	0.71
2:Y:9:G:C8	2:Y:9:G:H5'	2.24	0.71
6:D:795:VAL:HG23	6:D:879:ARG:HH12	1.55	0.71
5:M:356:ARG:HH11	5:M:356:ARG:HB2	1.54	0.71
6:N:470:LEU:H	6:N:470:LEU:HD23	1.54	0.71
6:N:1075:HIS:HB2	10:N:8357:HOH:O	1.90	0.71
5:M:361:MET:HG3	10:M:1608:HOH:O	1.89	0.71
6:D:400:VAL:HG22	6:D:443:VAL:HG21	1.71	0.71
4:L:57:TYR:HB3	4:L:141:GLU:HG3	1.73	0.71
6:D:138:LYS:HG3	10:D:8701:HOH:O	1.91	0.71
10:M:1149:HOH:O	6:N:1096:ARG:HG3	1.91	0.71
5:M:52:PHE:CE1	5:M:66:LEU:HG	2.25	0.71
6:D:871:LYS:HZ2	6:N:442:ASN:HD22	1.38	0.71
6:N:1047:LYS:HD2	6:N:1051:GLU:HG3	1.73	0.71
5:C:257:VAL:HG21	10:C:1549:HOH:O	1.90	0.71
6:D:793:THR:HG21	6:D:906:GLN:HG2	1.72	0.71
5:M:405:ARG:NH2	5:M:566:THR:HG21	2.06	0.71
5:C:52:PHE:CD2	5:C:68:PHE:HB2	2.25	0.71
4:A:158:ILE:HG21	10:A:338:HOH:O	1.90	0.71
6:D:1382:THR:HG21	6:D:1418:LYS:HE3	1.71	0.71
6:N:633:VAL:HG22	6:N:635:PRO:HD3	1.72	0.71
5:M:1090:LYS:HZ3	5:M:1112:PHE:HE1	1.38	0.71
5:C:1005:MET:SD	6:D:724:GLN:HA	2.31	0.71
6:N:838:ARG:HE	6:N:863:VAL:HB	1.54	0.71
6:D:1197:ARG:HD3	6:D:1198:TYR:CD1	2.25	0.71
5:C:157:ARG:CZ	5:C:314:THR:HB	2.20	0.71
6:D:131:LYS:HG2	6:D:456:MET:HE1	1.72	0.71
4:A:42:ARG:HD3	10:B:318:HOH:O	1.90	0.71
6:D:1441:GLN:NE2	6:D:1442:ASN:H	1.87	0.71
5:C:1013:TYR:HE1	5:C:1020:PRO:HG3	1.56	0.71
4:L:92:PRO:HA	4:L:146:ARG:HH12	1.56	0.71
5:C:203:ASP:HB2	5:C:205:GLU:OE2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:631:ILE:HG21	6:D:745:MET:SD	2.30	0.71
6:D:476:GLU:HB3	10:D:8074:HOH:O	1.91	0.71
6:N:796:ARG:HB3	10:N:8237:HOH:O	1.90	0.71
6:D:432:TYR:HB3	6:D:450:TYR:HB2	1.72	0.70
6:N:703:ASN:HD22	6:N:704:ARG:H	1.39	0.70
5:M:578:VAL:HG21	5:M:991:GLN:HB3	1.71	0.70
7:O:30:LEU:O	7:O:35:PHE:HA	1.89	0.70
6:D:842:VAL:HG23	10:D:8021:HOH:O	1.90	0.70
6:D:1310:ARG:HE	6:D:1327:ARG:CB	2.02	0.70
1:X:18:DG:H5"	6:N:628:ARG:NH2	2.06	0.70
6:D:1438:ALA:O	6:D:1443:THR:HG22	1.89	0.70
5:C:1112:PHE:HB2	10:C:1420:HOH:O	1.92	0.70
5:C:1065:ALA:HB1	5:C:1077:PRO:HG2	1.73	0.70
1:X:7:DC:H2'	10:X:2149:HOH:O	1.91	0.70
5:C:796:GLU:HB3	5:C:829:GLN:HE22	1.55	0.70
6:D:882:PHE:HE1	6:D:934:LEU:HD21	1.55	0.70
7:O:48:MET:N	7:O:54:LEU:HB2	2.06	0.70
5:C:140:ILE:HD13	5:C:331:ARG:HH21	1.56	0.70
6:N:1325:LEU:HD12	10:N:8650:HOH:O	1.89	0.70
5:C:516:ARG:NH1	5:C:521:PRO:HB3	2.07	0.70
6:N:496:LEU:O	6:N:500:ARG:HG2	1.91	0.70
4:A:203:GLY:HA2	10:A:413:HOH:O	1.91	0.70
5:C:910:LYS:HD3	10:C:1407:HOH:O	1.90	0.70
6:N:698:LYS:HD3	7:O:59:ASN:HD21	1.56	0.70
6:D:1102:THR:O	6:D:1222:GLY:HA3	1.91	0.70
6:D:1134:LEU:HD21	6:D:1175:ILE:HG23	1.72	0.70
6:D:1040:GLY:O	6:D:1060:SER:HB3	1.91	0.70
6:D:1046:GLN:HA	6:D:1052:THR:HA	1.73	0.70
5:C:906:PHE:CZ	6:D:1067:VAL:HA	2.26	0.70
4:A:43:ILE:CD1	4:B:35:THR:HG21	2.21	0.70
5:M:462:ASP:HB3	5:M:468:ARG:HD2	1.71	0.70
6:D:1468:LEU:HD23	6:D:1468:LEU:O	1.91	0.70
6:N:464:LEU:HD11	10:N:8398:HOH:O	1.90	0.70
6:N:415:VAL:HG13	6:N:419:ASP:HB2	1.74	0.70
6:D:1112:CYS:HB2	6:D:1195:GLN:HG2	1.72	0.70
5:M:650:ARG:HG2	5:M:653:ASP:HB2	1.72	0.70
6:D:204:LEU:HG	6:D:394:LEU:O	1.91	0.70
6:D:1312:LEU:HG	6:D:1327:ARG:HH11	1.56	0.70
6:N:62:LYS:HG3	6:N:75:ARG:HD2	1.73	0.70
4:A:42:ARG:CZ	5:C:857:ASP:HB3	2.21	0.70
6:N:695:ILE:HG21	6:N:720:LEU:HD11	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1429:LEU:HD21	10:N:8580:HOH:O	1.91	0.70
6:N:1000:THR:O	6:N:1003:VAL:HG12	1.92	0.70
6:N:983:LEU:HD13	10:N:8327:HOH:O	1.90	0.70
5:C:164:PRO:HA	10:C:1391:HOH:O	1.89	0.70
6:N:1101:VAL:CG2	6:N:1424:VAL:HG23	2.21	0.70
4:A:58:ILE:HB	4:A:61:VAL:HB	1.72	0.70
6:D:54:LYS:HE3	6:D:55:ASP:HB2	1.72	0.70
4:L:62:LEU:HB2	10:L:337:HOH:O	1.91	0.70
5:M:1034:GLU:HG2	6:N:619:LEU:HD13	1.73	0.70
5:M:140:ILE:O	5:M:418:LEU:HD23	1.91	0.70
5:M:174:LEU:HD13	5:M:307:LEU:HD13	1.73	0.70
5:M:45:GLN:NE2	5:M:49:ARG:HH12	1.89	0.70
5:C:435:TYR:O	5:C:437:ARG:HD2	1.91	0.70
5:C:546:LEU:HD13	5:C:565:GLN:NE2	2.06	0.70
6:N:813:LEU:HB2	6:N:839:LEU:HD21	1.74	0.70
5:C:364:GLU:HG2	10:C:1469:HOH:O	1.91	0.70
5:M:904:PRO:HA	10:M:1620:HOH:O	1.91	0.70
6:N:1412:LYS:HE2	6:N:1414:PRO:HG3	1.74	0.70
7:E:54:LEU:HD23	7:E:58:PRO:HD2	1.74	0.70
5:M:601:GLY:HA3	5:M:615:TYR:HA	1.74	0.70
6:D:161:LEU:HG	6:D:449:SER:HB3	1.74	0.70
5:C:228:ALA:HB2	10:C:1160:HOH:O	1.90	0.70
7:E:48:MET:HB3	10:E:111:HOH:O	1.92	0.70
6:D:1123:PHE:CZ	6:D:1178:ALA:HB1	2.27	0.70
6:D:926:LYS:HA	6:D:929:ARG:HD2	1.72	0.70
4:A:162:ILE:HG12	10:A:434:HOH:O	1.92	0.70
5:M:498:GLN:NE2	6:N:1067:VAL:HG11	2.07	0.70
4:A:131:THR:HG22	10:A:406:HOH:O	1.91	0.70
5:C:806:LEU:HD13	5:C:813:VAL:HG21	1.74	0.70
4:B:97:VAL:HG11	4:B:120:VAL:HG21	1.72	0.70
6:N:1228:SER:HA	10:N:8127:HOH:O	1.91	0.70
1:X:5:DG:H3'	10:X:865:HOH:O	1.91	0.70
6:D:1101:VAL:HG21	6:D:1424:VAL:HG23	1.74	0.70
2:H:9:G:H8	2:H:9:G:H5'	1.57	0.69
5:C:191:PHE:HZ	5:C:196:LEU:HB2	1.57	0.69
6:N:1389:LEU:HD12	6:N:1390:LEU:N	2.07	0.69
7:E:54:LEU:CD2	7:E:63:TRP:HE1	2.05	0.69
4:B:92:PRO:HA	4:B:146:ARG:NH1	2.07	0.69
6:D:1137:ARG:O	6:D:1141:GLU:HG3	1.92	0.69
6:D:1292:VAL:O	6:D:1303:TYR:HB2	1.92	0.69
6:N:1465:ASN:HD21	6:N:1470:ARG:HB3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:199:VAL:HG13	5:M:235:LEU:HG	1.74	0.69
2:Y:8:C:O2'	2:Y:9:G:H5'	1.92	0.69
5:C:263:ASP:HB2	5:C:264:PRO:HD3	1.72	0.69
6:N:1192:LEU:HD22	6:N:1345:GLU:HG2	1.75	0.69
1:X:12:DG:H2'	1:X:13:DT:H71	1.74	0.69
6:D:581:LEU:H	6:D:581:LEU:HD23	1.56	0.69
5:C:420:ARG:HB2	10:C:1383:HOH:O	1.92	0.69
5:C:358:ARG:NH2	5:C:374:ASN:HB3	2.01	0.69
5:M:1030:GLN:HB2	6:N:626:SER:HB2	1.74	0.69
6:D:1047:LYS:HD2	6:D:1051:GLU:HG3	1.72	0.69
6:D:1489:GLN:HB2	10:D:8580:HOH:O	1.93	0.69
4:K:86:VAL:HG12	4:K:124:ASN:HB2	1.74	0.69
6:N:1433:SER:HB2	6:N:1457:ASP:OD2	1.92	0.69
5:M:89:THR:O	5:M:91:GLN:HG3	1.92	0.69
5:M:38:LYS:HA	5:M:38:LYS:HE2	1.74	0.69
5:C:774:LEU:HD23	10:C:1304:HOH:O	1.93	0.69
4:B:56:VAL:HG21	4:B:82:LEU:HD12	1.74	0.69
2:H:11:C:H2'	2:H:12:G:C8	2.27	0.69
6:N:111:LYS:HE3	6:N:1452:ILE:HD13	1.74	0.69
5:C:470:PRO:HB2	5:C:534:VAL:HG21	1.74	0.69
5:C:39:ARG:HD2	5:C:39:ARG:H	1.57	0.69
6:D:973:GLN:HG2	10:D:8188:HOH:O	1.92	0.69
6:D:1280:VAL:HG13	6:N:48:ARG:CZ	2.23	0.69
2:Y:10:G:O2'	2:Y:11:C:H5'	1.92	0.69
4:A:42:ARG:HD2	5:C:978:ARG:HA	1.74	0.69
6:N:1465:ASN:ND2	6:N:1470:ARG:HB3	2.07	0.69
5:C:1002:GLU:HA	6:D:628:ARG:HH22	1.57	0.69
5:C:129:ILE:HD13	5:C:134:ARG:HB2	1.74	0.69
6:N:448:GLU:HA	10:N:8138:HOH:O	1.92	0.69
4:A:42:ARG:HH11	5:C:978:ARG:HA	1.57	0.69
4:B:34:VAL:HG11	5:C:978:ARG:HB3	1.74	0.69
6:N:133:ILE:HG12	6:N:456:MET:CB	2.23	0.69
6:N:131:LYS:HG3	6:N:568:ARG:HG2	1.74	0.69
5:M:332:ARG:CZ	5:M:464:LEU:HD11	2.23	0.69
5:M:218:VAL:HG22	5:M:221:LEU:HD23	1.74	0.69
6:D:586:ARG:HH12	6:D:1444:THR:HG21	1.57	0.69
6:N:1129:THR:O	6:N:1130:ARG:HD2	1.92	0.69
6:D:947:ILE:HD12	6:D:947:ILE:O	1.92	0.69
6:N:1209:LEU:HD23	6:N:1211:MET:H	1.57	0.69
6:D:172:PRO:HG2	6:D:175:VAL:HG21	1.74	0.69
5:M:851:LYS:HG2	5:M:853:LEU:HD12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:813:LEU:O	6:D:817:GLU:HB2	1.93	0.69
5:C:949:LYS:HD3	6:D:796:ARG:NH2	2.06	0.69
6:D:926:LYS:HE3	6:D:929:ARG:HH11	1.57	0.69
5:M:700:TYR:HB3	5:M:833:LEU:HD13	1.75	0.69
4:A:109:VAL:HG21	4:A:138:LEU:HD23	1.74	0.69
5:C:577:PRO:HA	5:C:671:ASN:HD21	1.56	0.69
4:K:109:VAL:HG12	10:K:1535:HOH:O	1.93	0.69
6:N:684:LYS:HB2	6:N:686:GLU:HG3	1.75	0.69
5:M:366:SER:HB2	10:M:1125:HOH:O	1.93	0.69
6:D:814:ALA:HA	10:D:8469:HOH:O	1.93	0.69
7:O:68:LEU:HD12	7:O:73:LEU:HD22	1.74	0.69
6:N:489:ARG:HH21	6:N:1389:LEU:HD21	1.55	0.69
6:D:1123:PHE:HZ	6:D:1178:ALA:HB1	1.57	0.69
4:K:226:SER:O	4:K:228:PRO:HD3	1.93	0.69
3:I:3:DA:H2"	3:I:4:DC:H5"	1.75	0.69
5:C:1084:SER:O	5:C:1087:VAL:HG12	1.93	0.69
6:D:996:TRP:CE2	6:D:1056:PRO:HG2	2.28	0.69
6:D:810:GLU:O	6:D:813:LEU:HG	1.92	0.69
5:M:730:SER:O	5:M:734:LEU:HD13	1.92	0.69
5:M:731:GLU:HB2	10:M:1336:HOH:O	1.93	0.69
6:N:1288:GLU:HG2	6:N:1289:LYS:HG3	1.75	0.69
3:Z:3:DA:H2"	3:Z:4:DC:H5"	1.74	0.68
6:D:1468:LEU:HD22	6:D:1470:ARG:HB2	1.75	0.68
6:D:1133:ARG:HG2	10:D:8310:HOH:O	1.92	0.68
5:M:281:LEU:HD11	5:M:306:THR:HA	1.75	0.68
5:C:716:LYS:HG3	10:C:1447:HOH:O	1.92	0.68
6:D:1273:VAL:HG22	6:D:1326:THR:OG1	1.93	0.68
6:N:161:LEU:CD2	6:N:452:ILE:HD13	2.24	0.68
6:N:454:ALA:HB2	10:N:8404:HOH:O	1.91	0.68
5:M:415:PRO:HD2	5:M:418:LEU:HD13	1.75	0.68
5:M:683:ASN:HA	5:M:687:ALA:HB3	1.75	0.68
5:C:945:ARG:HE	5:C:949:LYS:HZ1	1.41	0.68
5:C:157:ARG:NH1	5:C:314:THR:HB	2.07	0.68
2:H:13:C:H2'	2:H:14:G:H8	1.58	0.68
6:N:133:ILE:CG1	6:N:456:MET:HB3	2.23	0.68
5:C:395:LYS:CE	5:C:403:SER:HB2	2.22	0.68
6:D:970:LYS:HA	6:D:973:GLN:NE2	2.08	0.68
6:D:906:GLN:HB3	6:D:911:LEU:CD1	2.23	0.68
5:C:437:ARG:NH2	5:C:488:ALA:HA	2.09	0.68
2:H:10:G:O2'	2:H:11:C:H5'	1.94	0.68
6:D:1280:VAL:HG13	6:N:48:ARG:NH2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:101:HIS:ND1	6:N:103:TRP:HB2	2.08	0.68
5:M:606:VAL:HG22	5:M:645:VAL:HG13	1.74	0.68
5:C:953:VAL:HG11	5:C:962:GLN:HB3	1.75	0.68
4:B:105:GLY:HA2	10:B:331:HOH:O	1.93	0.68
6:D:868:TYR:HB3	10:D:8037:HOH:O	1.94	0.68
5:M:146:VAL:HG22	5:M:162:ILE:HA	1.74	0.68
5:C:198:ARG:HH11	5:C:204:GLN:HG2	1.56	0.68
5:C:569:VAL:HG21	10:C:1428:HOH:O	1.93	0.68
5:C:704:HIS:O	5:C:828:ALA:HA	1.93	0.68
6:D:1267:ARG:HB3	10:D:8661:HOH:O	1.92	0.68
2:Y:7:G:H21	5:M:1021:LEU:HB2	1.59	0.68
5:M:881:ASN:O	5:M:884:GLN:HG3	1.93	0.68
5:M:9:ILE:HG13	5:M:907:ASP:OD2	1.92	0.68
1:G:14:DT:H72	6:D:1089:ALA:HB2	1.75	0.68
4:K:44:LEU:HD23	4:K:48:ILE:HD11	1.75	0.68
6:N:986:ARG:HD3	10:N:8585:HOH:O	1.94	0.68
6:D:1325:LEU:HD21	10:D:8213:HOH:O	1.94	0.68
5:C:367:LEU:HD23	5:C:371:LYS:HE3	1.76	0.68
6:D:789:LEU:CD1	6:D:934:LEU:HD22	2.23	0.68
5:C:1060:ILE:HD13	5:C:1063:ARG:NH2	2.09	0.68
5:C:1036:GLU:HG2	6:D:703:ASN:OD1	1.94	0.68
2:H:13:C:H4'	5:C:409:ARG:NH2	2.09	0.68
6:N:136:ASP:HB3	6:N:137:PRO:HD3	1.75	0.68
4:L:86:VAL:HG12	4:L:124:ASN:ND2	2.06	0.68
5:M:403:SER:O	5:M:407:LYS:HG3	1.92	0.68
7:O:21:VAL:O	7:O:25:LYS:HG3	1.94	0.68
5:C:580:MET:HB3	5:C:584:GLU:CD	2.14	0.68
6:D:1052:THR:HG21	10:D:8031:HOH:O	1.94	0.68
5:C:10:ARG:HG3	10:C:1438:HOH:O	1.92	0.68
4:A:38:ASN:CB	5:C:980:GLY:HA3	2.15	0.67
6:N:962:GLN:O	6:N:966:GLU:HG3	1.93	0.67
5:C:601:GLY:HA3	5:C:615:TYR:HA	1.75	0.67
5:C:511:GLU:O	5:C:526:PRO:HD3	1.94	0.67
5:C:943:VAL:HG23	5:C:985:GLY:H	1.58	0.67
4:A:178:ALA:HB3	4:A:198:ARG:HG3	1.75	0.67
5:C:859:PRO:HB3	5:C:974:LEU:HD23	1.75	0.67
4:L:94:LEU:HD22	4:L:97:VAL:HG22	1.76	0.67
6:D:700:VAL:HG22	6:D:718:PRO:HG3	1.76	0.67
4:B:199:ILE:HD11	4:B:211:LEU:HD13	1.76	0.67
6:N:1404:ASN:ND2	6:N:1408:ILE:HD12	2.09	0.67
6:D:676:MET:SD	6:D:684:LYS:HE3	2.35	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1040:GLY:O	6:N:1060:SER:HB3	1.94	0.67
5:C:220:GLY:HA3	10:C:1121:HOH:O	1.94	0.67
5:C:1022:GLY:HA3	5:C:1026:GLN:O	1.95	0.67
2:Y:13:C:H2'	2:Y:14:G:H8	1.58	0.67
5:M:197:LEU:HD13	5:M:207:LEU:HD11	1.74	0.67
7:O:14:ASP:OD1	7:O:18:ARG:HD2	1.93	0.67
5:M:811:PRO:HD3	10:M:1361:HOH:O	1.94	0.67
5:C:945:ARG:HG3	10:C:1146:HOH:O	1.93	0.67
6:N:1025:GLN:HA	6:N:1025:GLN:HE21	1.58	0.67
6:N:1269:LYS:HD2	10:N:8678:HOH:O	1.95	0.67
5:C:47:ALA:HB1	5:C:345:ARG:HB3	1.75	0.67
5:M:1032:PHE:O	5:M:1036:GLU:HB2	1.93	0.67
6:N:522:PRO:HA	6:N:525:ARG:HH11	1.60	0.67
2:Y:10:G:H2'	2:Y:11:C:H6	1.58	0.67
4:L:74:ASP:HB3	6:N:872:ARG:HH22	1.59	0.67
5:C:762:LYS:HZ2	5:C:786:LYS:HA	1.60	0.67
4:K:49:PRO:HB3	4:K:148:VAL:HG22	1.74	0.67
7:O:79:LEU:HG	7:O:80:VAL:HG23	1.77	0.67
6:N:15:PRO:O	6:N:19:ARG:HG2	1.94	0.67
6:D:863:VAL:HA	10:D:8684:HOH:O	1.94	0.67
6:N:814:ALA:HB1	6:N:818:ARG:HH21	1.59	0.67
6:N:700:VAL:HG12	6:N:749:VAL:HG13	1.76	0.67
5:M:676:ILE:CG2	5:M:988:VAL:HG22	2.25	0.67
5:C:1091:GLU:OE1	6:D:613:ARG:HG2	1.94	0.67
6:D:1232:PRO:HB3	6:D:1361:VAL:CG2	2.22	0.67
6:D:848:GLU:HB3	10:D:8384:HOH:O	1.93	0.67
6:N:800:LYS:HD2	6:N:804:LEU:HD13	1.75	0.67
5:C:360:LEU:HD21	10:C:1188:HOH:O	1.95	0.67
6:D:510:GLU:HB2	6:D:511:TRP:CZ3	2.30	0.67
5:M:1051:GLU:HG2	5:M:1056:LYS:HE3	1.76	0.67
4:L:78:ILE:O	4:L:82:LEU:HG	1.94	0.67
6:N:781:PRO:HG2	6:N:911:LEU:HD22	1.77	0.67
5:C:242:LEU:HB3	10:C:1299:HOH:O	1.94	0.67
5:M:313:LEU:HD13	5:M:321:GLU:O	1.94	0.67
5:M:150:PRO:HA	5:M:158:TYR:HB3	1.77	0.67
5:M:457:ALA:HB3	5:M:538:GLN:HA	1.75	0.67
5:C:882:LEU:HD21	6:D:1038:LEU:HD22	1.77	0.67
6:D:1412:LYS:O	6:D:1414:PRO:HD3	1.94	0.67
6:D:433:GLY:HA3	6:D:447:VAL:O	1.95	0.67
2:H:8:C:O2'	2:H:9:G:H5'	1.95	0.67
6:D:1273:VAL:HG21	6:D:1305:LEU:HD21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1173:LEU:HD12	6:D:1176:LYS:HZ3	1.59	0.67
6:D:814:ALA:HB1	6:D:818:ARG:HE	1.60	0.67
6:N:1288:GLU:OE1	6:N:1289:LYS:HE3	1.94	0.67
6:N:566:ILE:HA	10:N:8692:HOH:O	1.93	0.67
4:B:7:LYS:O	4:B:7:LYS:HD3	1.95	0.67
6:N:1283:ILE:HD13	10:N:8136:HOH:O	1.95	0.67
4:A:6:LEU:HD21	10:A:451:HOH:O	1.94	0.67
1:X:16:DG:H5"	5:M:1031:ARG:HG2	1.76	0.67
6:N:57:GLU:HG2	6:N:58:CYS:N	2.10	0.67
6:N:4:GLU:HG2	6:N:6:ARG:HD2	1.76	0.67
6:N:434:ARG:HB3	6:N:434:ARG:NH1	2.07	0.67
6:D:1106:VAL:O	6:D:1108:ARG:HD3	1.95	0.67
6:D:1025:GLN:NE2	6:D:1025:GLN:HA	2.10	0.67
6:D:849:ALA:HB2	10:D:8223:HOH:O	1.95	0.67
5:C:309:TYR:HE2	5:C:321:GLU:HB3	1.58	0.67
5:C:428:ARG:NH1	5:C:449:ILE:H	1.91	0.67
5:M:546:LEU:HB3	10:M:1366:HOH:O	1.95	0.67
6:D:956:ILE:HG12	6:D:1039:CYS:O	1.95	0.67
6:D:1318:TYR:HE2	6:N:42:ASP:CG	1.98	0.67
5:M:1018:GLN:HA	5:M:1018:GLN:OE1	1.94	0.67
6:D:1293:PHE:CZ	6:N:75:ARG:HD3	2.29	0.67
4:A:89:PHE:HD1	4:A:120:VAL:HG23	1.59	0.67
5:M:1095:LEU:HG	6:N:603:LEU:HD13	1.77	0.67
5:C:1105:LYS:NZ	5:C:1107:ASN:HB2	2.09	0.67
5:C:683:ASN:HA	5:C:687:ALA:HB3	1.76	0.67
6:D:171:LEU:HD11	6:D:192:ALA:HB2	1.75	0.67
5:C:198:ARG:CZ	5:C:203:ASP:HA	2.25	0.67
4:B:110:LYS:HD2	10:B:376:HOH:O	1.95	0.67
6:N:1046:GLN:HA	6:N:1052:THR:HA	1.76	0.67
5:M:773:LEU:O	5:M:777:ILE:HG13	1.94	0.67
5:M:660:ALA:HB1	5:M:667:ALA:O	1.95	0.67
4:B:42:ARG:HH11	4:B:42:ARG:HG2	1.60	0.67
5:M:1018:GLN:HB2	5:M:1083:GLU:HB2	1.77	0.67
5:M:204:GLN:HA	10:M:1660:HOH:O	1.94	0.67
5:M:211:LEU:HD22	10:M:1346:HOH:O	1.94	0.67
5:C:304:LEU:HD23	5:C:305:PRO:HD3	1.76	0.67
4:B:140:MET:HE1	10:B:437:HOH:O	1.95	0.67
6:N:984:THR:HG22	6:N:987:GLU:HG3	1.77	0.67
7:O:43:GLU:HG3	7:O:44:GLU:H	1.60	0.67
6:N:1326:THR:HG22	6:N:1327:ARG:H	1.60	0.67
4:K:220:GLU:O	4:K:223:THR:HG22	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:200:LEU:HD13	5:C:300:ASP:CG	2.16	0.66
6:D:804:LEU:HB2	6:D:830:ALA:O	1.94	0.66
5:C:534:VAL:H	5:C:538:GLN:HE22	1.43	0.66
6:N:1003:VAL:O	6:N:1007:VAL:HG23	1.95	0.66
5:M:806:LEU:HD13	5:M:813:VAL:HG21	1.77	0.66
6:N:1412:LYS:O	6:N:1414:PRO:HD3	1.94	0.66
4:K:176:ARG:HG3	4:K:200:TRP:CE3	2.30	0.66
5:M:424:GLY:HA2	5:M:427:VAL:HG23	1.76	0.66
6:D:989:TYR:CZ	6:D:993:LEU:HD21	2.29	0.66
6:N:525:ARG:HG2	6:N:541:ASN:HD21	1.60	0.66
6:D:1264:GLU:O	6:D:1266:ARG:HG3	1.95	0.66
5:C:958:THR:HG23	5:C:961:GLU:HG3	1.77	0.66
4:B:20:TYR:HD2	4:B:21:GLY:H	1.42	0.66
4:B:5:LYS:HD3	10:B:324:HOH:O	1.95	0.66
6:D:72:VAL:CG2	6:D:77:GLY:HA2	2.25	0.66
5:M:1039:ALA:HA	10:N:8504:HOH:O	1.94	0.66
6:D:131:LYS:NZ	6:D:568:ARG:HB2	2.09	0.66
6:D:414:ARG:HB3	6:D:450:TYR:CD1	2.31	0.66
7:O:95:VAL:HG11	10:O:871:HOH:O	1.94	0.66
2:Y:9:G:H4'	6:N:601:ARG:NH1	2.09	0.66
5:C:373:VAL:HG23	10:C:1326:HOH:O	1.93	0.66
5:M:676:ILE:HG22	5:M:988:VAL:O	1.95	0.66
5:M:881:ASN:N	5:M:881:ASN:HD22	1.93	0.66
6:N:1011:PHE:HB3	6:N:1021:TYR:CD1	2.30	0.66
1:X:14:DT:H2''	1:X:15:DC:H5'	1.77	0.66
4:L:59:GLU:HB2	4:L:137:ARG:HH12	1.59	0.66
6:N:770:LEU:HD12	10:N:8384:HOH:O	1.95	0.66
6:D:472:ALA:HA	6:D:475:LYS:HD3	1.77	0.66
5:C:1057:SER:HB2	10:C:1439:HOH:O	1.94	0.66
5:M:1097:LEU:H	5:M:1097:LEU:CD2	2.02	0.66
5:C:433:THR:HG21	5:C:488:ALA:HB1	1.76	0.66
5:C:427:VAL:HG12	10:C:1232:HOH:O	1.94	0.66
6:D:894:LYS:O	6:D:898:GLU:HG3	1.95	0.66
6:D:169:TYR:HB3	6:D:195:VAL:HG11	1.75	0.66
6:N:771:SER:HB3	6:N:778:LEU:HD13	1.77	0.66
6:N:1341:PRO:HA	6:N:1344:VAL:HG23	1.77	0.66
6:D:1319:VAL:HA	6:D:1323:GLN:NE2	2.10	0.66
5:M:1014:SER:HB3	5:M:1017:THR:O	1.95	0.66
5:M:946:ARG:HB3	5:M:946:ARG:NH1	2.02	0.66
6:D:143:ASN:ND2	6:D:145:VAL:HG12	2.05	0.66
5:M:207:LEU:HD13	5:M:221:LEU:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:584:ASN:OD1	6:D:590:PRO:HD2	1.96	0.66
5:C:754:ILE:HG12	5:C:791:ARG:NH1	2.09	0.66
5:M:577:PRO:HA	5:M:671:ASN:HD21	1.61	0.66
4:A:72:LYS:HG2	10:C:1666:HOH:O	1.95	0.66
6:D:1122:LEU:HD11	6:D:1186:VAL:HG23	1.76	0.66
6:N:804:LEU:HD23	6:N:804:LEU:H	1.59	0.66
6:N:857:ILE:HG22	6:N:858:VAL:HG13	1.78	0.66
6:D:112:ILE:HD13	10:D:8084:HOH:O	1.94	0.66
4:K:67:THR:HG21	5:M:609:ASN:ND2	2.11	0.66
5:C:1074:GLU:HG2	5:C:1075:ASP:H	1.60	0.66
6:N:98:PRO:HG2	6:N:462:GLN:OE1	1.96	0.66
5:C:422:ARG:HB2	10:C:1629:HOH:O	1.95	0.66
6:N:600:LEU:HD12	6:N:600:LEU:H	1.60	0.66
5:C:534:VAL:N	5:C:538:GLN:HE22	1.94	0.66
4:K:7:LYS:HD2	4:K:186:LEU:HD21	1.77	0.66
6:D:655:PRO:HA	6:D:658:LEU:HD12	1.78	0.66
5:M:338:GLU:O	5:M:341:THR:HG22	1.96	0.66
6:N:1094:LEU:HD13	6:N:1260:ILE:HD12	1.78	0.66
6:D:483:HIS:HB2	6:D:484:PRO:HD3	1.76	0.66
6:N:50:PHE:O	6:N:86:ARG:HA	1.95	0.66
6:D:711:LEU:HD12	6:D:778:LEU:HD23	1.77	0.66
5:M:141:HIS:NE2	5:M:332:ARG:HD3	2.11	0.66
5:C:195:LEU:O	5:C:199:VAL:HG23	1.94	0.66
6:N:409:VAL:HG21	6:N:421:LEU:HD23	1.77	0.66
6:N:1275:SER:HB3	6:N:1325:LEU:HD22	1.76	0.66
6:N:1281:VAL:HG23	6:N:1319:VAL:HG21	1.78	0.66
7:E:22:VAL:HG12	7:E:68:LEU:HD21	1.77	0.66
6:N:129:PHE:O	6:N:572:ARG:HG2	1.96	0.66
5:C:678:PRO:HG3	5:C:873:PRO:HD2	1.77	0.66
5:M:185:LYS:CG	5:M:190:LYS:HG3	2.25	0.66
4:K:206:THR:HG22	4:K:209:GLU:H	1.61	0.66
6:D:185:VAL:HG21	6:D:191:LEU:HD21	1.78	0.66
4:A:79:ILE:HA	4:A:82:LEU:HD12	1.77	0.66
5:M:191:PHE:CE2	5:M:238:LEU:HD21	2.31	0.66
6:N:562:ALA:HB3	10:N:8018:HOH:O	1.96	0.66
6:N:133:ILE:CA	6:N:456:MET:HB3	2.25	0.65
6:N:179:VAL:CG2	6:N:189:GLN:HE22	2.08	0.65
4:A:13:VAL:HG21	10:B:339:HOH:O	1.95	0.65
5:M:372:LEU:HA	10:M:1606:HOH:O	1.96	0.65
5:C:949:LYS:HD3	6:D:796:ARG:HH22	1.60	0.65
4:K:50:GLY:HA3	4:K:173:PRO:HG3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1138:ALA:HB1	10:D:8046:HOH:O	1.96	0.65
5:C:84:ARG:HG2	5:C:131:GLY:O	1.96	0.65
4:K:126:ASP:HB3	10:K:3554:HOH:O	1.94	0.65
6:N:1271:LYS:HE2	10:N:8634:HOH:O	1.94	0.65
5:C:612:VAL:HG22	5:C:622:GLU:HA	1.76	0.65
5:M:139:GLN:CD	5:M:415:PRO:HD3	2.16	0.65
6:D:643:GLY:HA3	6:D:727:GLN:HB2	1.78	0.65
5:M:95:TYR:HD2	5:M:114:PHE:HB3	1.58	0.65
5:M:512:ARG:HB3	5:M:523:ILE:HD11	1.78	0.65
4:K:147:GLY:HA2	10:K:2290:HOH:O	1.96	0.65
5:C:1035:MET:HB3	6:D:707:THR:HB	1.78	0.65
6:N:1468:LEU:HD22	6:N:1470:ARG:HB2	1.78	0.65
5:M:198:ARG:HD2	5:M:204:GLN:NE2	2.10	0.65
6:D:62:LYS:HB2	6:D:73:CYS:SG	2.37	0.65
5:C:679:PHE:CE2	5:C:853:LEU:HD21	2.31	0.65
5:C:457:ALA:HB3	5:C:538:GLN:HA	1.76	0.65
6:D:1003:VAL:O	6:D:1007:VAL:HG23	1.96	0.65
5:C:1006:HIS:HB3	10:C:1520:HOH:O	1.95	0.65
5:C:910:LYS:HA	10:C:1407:HOH:O	1.95	0.65
6:N:1147:ARG:HB3	6:N:1188:VAL:HG21	1.77	0.65
5:C:672:VAL:HG11	10:C:1377:HOH:O	1.95	0.65
6:D:87:ARG:HB2	6:D:523:ASP:HB2	1.76	0.65
6:D:501:ALA:HB1	6:D:1453:ALA:CB	2.23	0.65
5:M:987:ILE:CG2	6:N:948:THR:HG21	2.25	0.65
5:C:1101:THR:O	5:C:1102:LEU:HD12	1.96	0.65
6:N:908:LYS:CB	6:N:1027:GLY:HA3	2.25	0.65
6:D:813:LEU:HD11	10:D:8292:HOH:O	1.95	0.65
5:M:806:LEU:HG	10:M:1618:HOH:O	1.96	0.65
5:M:200:LEU:HD13	5:M:300:ASP:CG	2.16	0.65
5:M:432:ARG:HH22	6:N:1047:LYS:HD3	1.60	0.65
7:E:48:MET:N	7:E:54:LEU:HB2	2.11	0.65
5:M:99:GLN:HB3	5:M:109:LYS:HG3	1.76	0.65
6:D:1103:HIS:CD2	6:D:1463:LYS:H	2.15	0.65
6:N:141:ILE:HG21	6:N:449:SER:OG	1.96	0.65
4:A:46:SER:HB3	5:C:856:GLU:CG	2.27	0.65
3:I:3:DA:C2	5:C:422:ARG:HB3	2.31	0.65
6:D:44:LEU:HD13	6:D:525:ARG:HH21	1.62	0.65
5:M:66:LEU:HD22	5:M:372:LEU:HD23	1.79	0.65
6:N:532:GLY:HA3	10:N:8512:HOH:O	1.96	0.65
5:M:770:GLU:HG3	10:N:8662:HOH:O	1.96	0.65
5:M:554:ASP:HA	10:M:1256:HOH:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:206:THR:HG22	4:L:209:GLU:HB2	1.77	0.65
6:D:161:LEU:CD2	6:D:452:ILE:HG21	2.26	0.65
5:M:1049:LEU:HD23	6:N:1472:ILE:HD12	1.78	0.65
6:N:1106:VAL:HG11	6:N:1474:ALA:HB1	1.77	0.65
6:D:5:VAL:HG21	10:D:8397:HOH:O	1.96	0.65
5:C:754:ILE:HG12	5:C:791:ARG:HH12	1.61	0.65
5:M:897:LEU:HD23	5:M:924:VAL:HG21	1.79	0.65
6:N:472:ALA:HA	6:N:475:LYS:HD3	1.78	0.65
5:M:976:ASP:HB2	10:M:1440:HOH:O	1.96	0.65
4:B:123:MET:O	4:B:125:PRO:HD3	1.96	0.65
5:C:342:ASP:O	5:C:346:VAL:HG23	1.96	0.65
6:D:136:ASP:CB	6:D:137:PRO:HD3	2.26	0.65
6:N:618:LEU:HB3	6:N:619:LEU:HD23	1.77	0.65
5:M:139:GLN:OE1	5:M:415:PRO:HD3	1.97	0.65
5:C:730:SER:O	5:C:734:LEU:HD13	1.97	0.65
5:C:151:ASP:HB2	5:C:157:ARG:O	1.96	0.65
4:K:48:ILE:HD13	4:K:210:ALA:HB1	1.78	0.65
6:D:896:ALA:O	6:D:900:ILE:HG23	1.97	0.65
6:N:1264:GLU:HG2	6:N:1266:ARG:HH21	1.61	0.65
6:D:133:ILE:O	6:D:153:LEU:N	2.30	0.65
6:D:783:ARG:HA	6:D:1028:ALA:HA	1.79	0.65
6:D:1057:VAL:HG13	6:D:1069:GLU:HB3	1.78	0.65
6:D:786:ILE:HD13	6:D:908:LYS:HB2	1.77	0.65
5:C:25:SER:CB	5:C:335:THR:HB	2.27	0.65
5:M:285:LEU:O	5:M:285:LEU:HD23	1.96	0.65
5:C:745:ILE:HD11	5:C:803:THR:OG1	1.96	0.65
6:D:1118:ILE:HG13	6:D:1192:LEU:HD12	1.77	0.65
4:A:95:GLN:HB2	10:A:370:HOH:O	1.97	0.65
6:N:902:LEU:HD23	6:N:902:LEU:H	1.62	0.65
6:D:426:LYS:HE3	6:D:427:VAL:HG23	1.78	0.65
7:E:9:LEU:HD22	7:E:19:LEU:HD11	1.79	0.65
6:D:614:PHE:CE2	6:D:1438:ALA:HB1	2.32	0.65
6:D:76:CYS:SG	6:D:78:VAL:HG23	2.37	0.65
6:D:507:ASN:ND2	6:D:507:ASN:H	1.91	0.65
5:M:685:GLU:OE2	6:N:783:ARG:HD2	1.97	0.65
6:N:784:ASP:HB3	6:N:939:PHE:HE2	1.62	0.65
6:N:832:ARG:HA	6:N:832:ARG:CZ	2.26	0.65
6:N:1498:ALA:HB2	7:O:88:GLU:OE1	1.96	0.65
4:K:14:ARG:HH12	4:K:24:VAL:CG2	2.10	0.65
6:D:701:LEU:HD13	6:D:748:HIS:HB2	1.79	0.65
6:N:956:ILE:HG12	6:N:1039:CYS:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:525:ARG:HG2	6:D:525:ARG:O	1.97	0.65
6:D:15:PRO:O	6:D:19:ARG:HG2	1.96	0.65
6:D:19:ARG:HG3	6:D:19:ARG:HH11	1.62	0.65
5:C:920:GLN:HA	10:C:1328:HOH:O	1.97	0.65
6:N:400:VAL:HG22	6:N:443:VAL:HG21	1.78	0.65
4:A:178:ALA:HB2	5:C:864:GLY:H	1.62	0.64
6:D:1042:ARG:HH11	6:D:1042:ARG:HB2	1.61	0.64
1:X:6:DT:H2"	1:X:7:DC:C6	2.33	0.64
5:M:342:ASP:O	5:M:346:VAL:HG23	1.96	0.64
5:C:617:ASP:OD1	5:C:619:ARG:HG3	1.96	0.64
5:C:1031:ARG:HE	6:D:621:LYS:HB3	1.62	0.64
7:O:41:GLU:HB2	7:O:45:ARG:NE	2.11	0.64
6:N:433:GLY:HA3	6:N:447:VAL:O	1.97	0.64
5:M:939:ARG:HG3	10:M:1139:HOH:O	1.97	0.64
5:M:52:PHE:HE1	5:M:66:LEU:HG	1.61	0.64
6:N:703:ASN:HD22	6:N:704:ARG:N	1.95	0.64
5:M:141:HIS:O	5:M:331:ARG:HA	1.97	0.64
6:D:615:ARG:HH22	6:D:1096:ARG:CZ	2.10	0.64
5:M:352:ALA:O	5:M:355:VAL:HG12	1.97	0.64
5:C:191:PHE:CZ	5:C:196:LEU:HB2	2.32	0.64
6:D:1197:ARG:HH11	6:D:1198:TYR:HD1	1.44	0.64
6:N:1122:LEU:HB2	10:N:8186:HOH:O	1.96	0.64
5:M:579:VAL:HG11	5:M:887:GLU:HG3	1.79	0.64
5:M:441:VAL:O	5:M:559:LEU:HG	1.97	0.64
5:M:58:ASP:O	5:M:59:LYS:HG3	1.97	0.64
6:N:133:ILE:HA	6:N:456:MET:HB3	1.79	0.64
5:C:1030:GLN:HB2	6:D:626:SER:HB2	1.79	0.64
5:M:204:GLN:HG3	10:M:1529:HOH:O	1.97	0.64
5:M:304:LEU:HD11	10:M:1595:HOH:O	1.97	0.64
5:C:683:ASN:HB2	5:C:872:ASN:HB2	1.79	0.64
6:N:817:GLU:HG3	6:N:839:LEU:HD23	1.78	0.64
6:N:1109:GLU:HG2	6:N:1201:CYS:HA	1.77	0.64
6:D:108:VAL:HB	6:D:109:PRO:HD3	1.80	0.64
6:N:489:ARG:NH2	6:N:1389:LEU:HD21	2.12	0.64
6:D:664:LYS:HE3	10:D:8563:HOH:O	1.97	0.64
6:N:554:LEU:O	6:N:558:LEU:HG	1.98	0.64
5:M:1105:LYS:HD2	5:M:1107:ASN:ND2	2.13	0.64
5:M:886:LEU:HD13	6:N:951:ILE:HG13	1.80	0.64
4:K:89:PHE:HD1	4:K:120:VAL:HG23	1.63	0.64
4:A:14:ARG:NH2	4:A:22:GLU:HB3	2.12	0.64
5:C:1103:ASP:HA	10:D:8507:HOH:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1197:ARG:HG3	10:N:8280:HOH:O	1.96	0.64
5:M:399:ASN:ND2	5:M:568:ALA:HB3	2.12	0.64
5:M:690:ILE:HG23	5:M:852:ILE:HG23	1.80	0.64
5:M:511:GLU:O	5:M:526:PRO:HD3	1.98	0.64
6:D:63:TYR:HB2	10:D:8634:HOH:O	1.97	0.64
6:D:409:VAL:CG2	6:D:421:LEU:HA	2.28	0.64
6:D:398:ALA:HB2	6:D:447:VAL:HG12	1.79	0.64
5:C:1031:ARG:HA	6:D:621:LYS:O	1.97	0.64
6:D:1297:GLU:O	6:N:52:PRO:HA	1.97	0.64
6:N:44:LEU:HD22	6:N:525:ARG:HH22	1.62	0.64
6:N:135:LEU:HG	10:N:8404:HOH:O	1.98	0.64
5:M:89:THR:HA	5:M:129:ILE:O	1.98	0.64
6:D:82:LYS:HB2	10:D:8184:HOH:O	1.96	0.64
6:D:52:PRO:HD2	6:D:85:VAL:HG23	1.79	0.64
4:A:150:TYR:CE1	5:C:696:LYS:HA	2.32	0.64
5:C:218:VAL:HG23	5:C:311:PHE:HE1	1.62	0.64
10:Y:2803:HOH:O	5:M:846:LYS:HD3	1.97	0.64
6:D:883:ALA:HB2	10:D:8486:HOH:O	1.97	0.64
6:D:163:TYR:CE1	6:D:166:GLN:HB2	2.32	0.64
6:D:1294:VAL:HG13	6:D:1319:VAL:HG23	1.80	0.64
6:N:1292:VAL:O	6:N:1303:TYR:HB2	1.97	0.64
5:M:310:LEU:O	5:M:314:THR:HG23	1.97	0.64
6:N:180:LYS:HG2	6:N:183:GLU:OE1	1.97	0.64
5:M:395:LYS:CE	5:M:403:SER:HB2	2.25	0.64
6:D:1025:GLN:HE21	6:D:1025:GLN:CA	2.10	0.64
5:C:191:PHE:HD2	5:C:195:LEU:HD23	1.63	0.64
6:D:996:TRP:CD2	6:D:1056:PRO:HG2	2.33	0.64
5:C:98:LEU:N	5:C:98:LEU:HD12	2.13	0.64
6:D:1098:LEU:HD23	6:D:1226:ALA:HA	1.80	0.64
6:D:902:LEU:HB3	10:D:8486:HOH:O	1.96	0.64
6:D:2:LYS:HB2	10:D:8579:HOH:O	1.97	0.64
4:B:59:GLU:CG	4:B:139:ASN:HD22	2.11	0.64
6:D:165:LYS:HG2	6:D:199:LEU:HD22	1.79	0.64
6:D:619:LEU:HD12	6:D:621:LYS:NZ	2.13	0.64
5:C:1086:ARG:HB3	5:C:1112:PHE:HE2	1.61	0.64
6:D:1389:LEU:HD11	10:D:8204:HOH:O	1.97	0.64
6:D:493:ARG:HG2	6:D:1390:LEU:HD12	1.80	0.64
6:D:1066:THR:HG22	6:D:1069:GLU:HB2	1.80	0.64
6:D:656:PHE:HB3	6:D:694:VAL:HG11	1.79	0.64
5:M:140:ILE:HA	5:M:332:ARG:O	1.97	0.64
5:M:68:PHE:HE1	5:M:96:ALA:HB1	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:947:ILE:HG21	10:N:8633:HOH:O	1.98	0.64
5:C:957:LYS:HA	10:C:1476:HOH:O	1.96	0.64
5:C:516:ARG:CZ	6:D:1068:LEU:HD22	2.28	0.64
5:M:436:GLY:HA2	5:M:538:GLN:O	1.97	0.64
6:D:1472:ILE:HD13	6:D:1472:ILE:H	1.63	0.64
4:A:179:PHE:HB3	10:A:359:HOH:O	1.97	0.64
6:D:161:LEU:HG	6:D:449:SER:CB	2.27	0.64
6:N:28:LYS:HG2	6:N:29:PRO:HD2	1.80	0.64
6:N:81:THR:HG21	6:N:84:ILE:HD11	1.79	0.64
7:E:41:GLU:HG2	7:E:42:PRO:HD3	1.80	0.64
6:N:701:LEU:HD12	6:N:701:LEU:H	1.63	0.64
4:L:74:ASP:CB	6:N:872:ARG:HH22	2.11	0.64
5:C:199:VAL:HG13	5:C:235:LEU:HG	1.78	0.64
6:N:868:TYR:HD1	6:N:869:MET:HG3	1.62	0.64
4:K:73:GLU:CD	4:K:73:GLU:H	2.02	0.64
6:D:153:LEU:HD13	6:D:158:TYR:HB2	1.80	0.63
6:N:615:ARG:HH22	6:N:1096:ARG:HD2	1.61	0.63
6:D:520:LEU:HD12	6:D:521:PRO:HD2	1.79	0.63
4:B:197:LEU:HD21	4:B:199:ILE:HD11	1.80	0.63
5:C:260:LEU:HB2	5:C:291:ALA:HB1	1.78	0.63
6:N:984:THR:HG22	6:N:987:GLU:H	1.62	0.63
10:C:1439:HOH:O	6:D:623:VAL:HA	1.97	0.63
6:N:584:ASN:OD1	6:N:590:PRO:HD2	1.98	0.63
5:M:56:GLU:HB3	5:M:359:MET:SD	2.38	0.63
6:D:957:PRO:HG3	6:D:1007:VAL:HA	1.80	0.63
6:N:925:GLU:HB2	10:N:8410:HOH:O	1.98	0.63
5:M:270:GLY:HA2	10:M:1207:HOH:O	1.97	0.63
5:C:170:PRO:HG2	5:C:258:TYR:CE2	2.34	0.63
5:C:170:PRO:HD2	5:C:263:ASP:HB3	1.81	0.63
5:C:681:GLY:C	6:D:635:PRO:HG3	2.17	0.63
6:D:10:ILE:HG22	6:D:1451:ALA:HA	1.80	0.63
6:N:615:ARG:HH22	6:N:1096:ARG:NE	1.97	0.63
6:D:1310:ARG:NE	6:D:1327:ARG:HB3	2.10	0.63
5:M:211:LEU:HD13	5:M:308:ARG:CD	2.28	0.63
6:D:129:PHE:O	6:D:572:ARG:HG2	1.97	0.63
4:B:206:THR:HG23	4:B:208:LEU:H	1.62	0.63
5:C:945:ARG:HE	5:C:949:LYS:NZ	1.96	0.63
5:C:906:PHE:CE1	6:D:1067:VAL:HA	2.33	0.63
5:M:580:MET:SD	5:M:584:GLU:HG3	2.38	0.63
5:C:399:ASN:HB3	5:C:568:ALA:O	1.98	0.63
4:L:212:ASN:O	4:L:215:VAL:HG22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:39:ARG:HD2	5:M:39:ARG:H	1.62	0.63
6:D:1292:VAL:HB	10:D:8022:HOH:O	1.97	0.63
6:D:1277:ILE:HD12	6:D:1301:LYS:HB2	1.79	0.63
4:A:42:ARG:NH1	5:C:978:ARG:HA	2.12	0.63
4:A:86:VAL:HG12	4:A:124:ASN:HB2	1.80	0.63
5:C:1013:TYR:CE1	5:C:1020:PRO:HG3	2.34	0.63
7:E:68:LEU:HD12	7:E:73:LEU:HD13	1.79	0.63
5:C:564:MET:CE	5:C:997:LEU:HD21	2.28	0.63
5:C:521:PRO:HD3	6:D:1053:PHE:HE2	1.61	0.63
4:A:54:THR:HG22	4:A:158:ILE:HG13	1.81	0.63
5:M:1071:ILE:HG21	10:N:8269:HOH:O	1.97	0.63
4:K:123:MET:O	4:K:125:PRO:HD3	1.98	0.63
5:C:378:LEU:HA	10:C:1757:HOH:O	1.97	0.63
6:N:52:PRO:HG2	6:N:80:VAL:HG13	1.80	0.63
6:N:701:LEU:N	6:N:701:LEU:HD12	2.13	0.63
6:D:562:ALA:HB1	6:D:567:ILE:CD1	2.25	0.63
5:M:939:ARG:HA	5:M:939:ARG:NE	2.11	0.63
6:N:628:ARG:HD2	10:N:8477:HOH:O	1.98	0.63
5:M:889:HIS:HE1	6:N:951:ILE:N	1.80	0.63
6:D:1425:THR:O	6:D:1429:LEU:HD13	1.98	0.63
5:M:17:PRO:O	5:M:20:GLU:HB3	1.98	0.63
5:C:759:THR:HA	5:C:786:LYS:O	1.98	0.63
2:Y:9:G:H8	2:Y:9:G:H5'	1.63	0.63
6:N:720:LEU:H	6:N:720:LEU:CD1	2.11	0.63
5:C:571:LEU:HD12	5:C:701:THR:O	1.99	0.63
5:M:409:ARG:HA	5:M:454:SER:HA	1.80	0.63
6:N:1443:THR:O	6:N:1447:LEU:HD13	1.98	0.63
4:A:143:ARG:HG2	10:A:338:HOH:O	1.96	0.63
5:C:38:LYS:HA	5:C:38:LYS:HE2	1.81	0.63
6:N:1232:PRO:HB3	6:N:1361:VAL:HG21	1.80	0.63
6:D:119:SER:HB2	6:D:123:LEU:HB2	1.81	0.63
5:C:409:ARG:HD3	10:C:1576:HOH:O	1.97	0.63
2:Y:7:G:C2	5:M:1014:SER:HA	2.34	0.63
6:N:36:THR:C	6:N:38:LYS:H	2.02	0.63
5:C:1057:SER:HB3	10:C:1131:HOH:O	1.98	0.63
5:M:175:GLU:HG3	10:M:1192:HOH:O	1.98	0.63
5:M:597:ALA:HB2	5:M:655:LEU:HD21	1.79	0.63
6:N:728:LEU:HD12	6:N:729:HIS:H	1.64	0.63
5:C:15:LEU:N	5:C:586:ARG:NH2	2.47	0.63
6:N:398:ALA:CB	6:N:447:VAL:HA	2.28	0.63
5:C:693:GLU:OE2	5:C:855:VAL:HG21	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:578:VAL:HG13	5:M:671:ASN:OD1	1.99	0.63
6:D:1101:VAL:HG13	6:D:1428:ALA:HB2	1.81	0.63
6:N:1034:GLN:O	6:N:1038:LEU:HD12	1.99	0.63
5:C:676:ILE:HG22	5:C:988:VAL:O	1.99	0.63
6:D:409:VAL:HG11	6:D:435:VAL:HG21	1.80	0.63
2:H:13:C:H4'	5:C:409:ARG:HH22	1.64	0.63
2:Y:11:C:H2'	2:Y:12:G:H8	1.64	0.63
6:N:152:LEU:HD23	10:N:8491:HOH:O	1.98	0.63
5:M:881:ASN:N	5:M:881:ASN:ND2	2.47	0.63
5:M:725:ASP:HB3	5:M:783:ARG:NH2	2.14	0.63
6:N:1161:GLU:HG2	6:N:1164:ARG:HB2	1.80	0.63
5:M:824:ARG:HD2	5:M:826:TYR:CE1	2.34	0.63
1:G:6:DT:H2''	1:G:7:DC:C6	2.34	0.63
6:D:415:VAL:HG13	6:D:419:ASP:HB2	1.79	0.62
5:M:1084:SER:O	5:M:1087:VAL:HG12	1.98	0.62
6:D:1293:PHE:HE2	6:N:60:CYS:SG	2.22	0.62
1:X:18:DG:H2''	1:X:19:DC:C5'	2.26	0.62
1:X:18:DG:H5'	1:X:18:DG:H8	1.63	0.62
4:B:56:VAL:HG13	4:B:142:VAL:HG12	1.79	0.62
6:N:483:HIS:HB2	6:N:484:PRO:HD3	1.81	0.62
6:N:690:ALA:O	6:N:694:VAL:HG23	1.99	0.62
4:L:172:SER:HB2	10:L:422:HOH:O	1.99	0.62
6:D:698:LYS:HD3	10:E:142:HOH:O	1.98	0.62
4:L:123:MET:C	4:L:125:PRO:HD3	2.19	0.62
6:D:1292:VAL:CG2	6:D:1311:LEU:HD13	2.29	0.62
7:E:36:LYS:HZ3	7:E:45:ARG:HH22	1.45	0.62
6:D:1209:LEU:CD2	6:D:1211:MET:H	2.07	0.62
5:M:139:GLN:O	5:M:333:ILE:HA	1.99	0.62
7:O:54:LEU:HA	7:O:58:PRO:HG2	1.81	0.62
5:C:252:LYS:HG2	10:C:1123:HOH:O	1.99	0.62
4:A:83:LYS:HE2	10:C:1356:HOH:O	1.99	0.62
6:N:1098:LEU:HD23	6:N:1226:ALA:HA	1.80	0.62
6:N:1106:VAL:O	6:N:1108:ARG:HD3	1.98	0.62
2:H:6:U:C2'	2:H:7:G:C8	2.80	0.62
3:Z:8:DA:H1'	3:Z:9:DG:H5'	1.82	0.62
6:N:650:LEU:HD11	6:N:677:LEU:HD22	1.81	0.62
6:D:1205:TYR:CD2	6:D:1215:VAL:HG21	2.34	0.62
7:E:70:THR:HG21	7:E:72:ARG:CZ	2.29	0.62
6:D:131:LYS:HZ3	6:D:568:ARG:HB2	1.64	0.62
6:D:398:ALA:CB	6:D:447:VAL:HA	2.29	0.62
6:N:720:LEU:N	6:N:720:LEU:HD12	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:50:PHE:CG	6:D:522:PRO:HG3	2.33	0.62
6:N:1205:TYR:HD2	6:N:1215:VAL:HG21	1.64	0.62
6:N:139:GLY:O	6:N:147:VAL:HB	1.99	0.62
6:N:995:LEU:HD12	10:N:8179:HOH:O	1.99	0.62
6:D:32:ILE:HD11	10:D:8415:HOH:O	1.99	0.62
5:M:886:LEU:CD1	6:N:951:ILE:HG13	2.29	0.62
5:M:101:ILE:HG23	5:M:107:LEU:HD22	1.82	0.62
5:C:401:LEU:HD13	5:C:587:VAL:HG11	1.80	0.62
7:E:33:HIS:HB2	7:E:37:ASN:HD21	1.63	0.62
6:N:1345:GLU:O	6:N:1349:VAL:HG23	2.00	0.62
6:N:481:MET:HE2	6:N:493:ARG:HB2	1.82	0.62
6:D:480:GLU:O	6:D:484:PRO:HD2	1.99	0.62
6:D:1109:GLU:OE2	6:D:1217:ILE:HD11	1.99	0.62
6:D:141:ILE:HG12	6:D:448:GLU:O	1.99	0.62
5:C:108:ILE:HD11	10:C:1491:HOH:O	1.99	0.62
6:D:911:LEU:HD23	6:D:934:LEU:HD13	1.81	0.62
5:C:205:GLU:HA	5:C:209:ARG:NH2	2.15	0.62
5:C:264:PRO:HB3	5:C:289:THR:CB	2.30	0.62
6:D:645:PRO:HD3	6:D:726:ILE:HG12	1.81	0.62
4:K:24:VAL:HG22	4:K:196:THR:CG2	2.29	0.62
5:C:675:ALA:HA	5:C:989:VAL:HG12	1.82	0.62
6:D:437:VAL:HG22	6:D:444:VAL:HG22	1.81	0.62
2:H:10:G:H2'	2:H:11:C:H6	1.64	0.62
6:N:91:GLY:O	6:N:519:VAL:HG23	2.00	0.62
6:D:51:GLY:HA3	6:D:86:ARG:HA	1.80	0.62
5:M:182:VAL:HG11	5:M:193:LEU:HD22	1.81	0.62
6:D:28:LYS:HG3	6:D:29:PRO:HD2	1.81	0.62
5:M:478:VAL:HG13	5:M:506:ASN:HB3	1.82	0.62
4:K:191:ASP:O	4:K:192:LEU:HD23	2.00	0.62
6:N:444:VAL:HG21	10:N:8139:HOH:O	1.98	0.62
6:D:701:LEU:H	6:D:701:LEU:HD12	1.64	0.62
6:N:664:LYS:HG2	10:N:8441:HOH:O	1.99	0.62
5:C:402:SER:HA	5:C:566:THR:HG23	1.80	0.62
5:C:512:ARG:HB3	5:C:523:ILE:HD11	1.80	0.62
6:D:163:TYR:O	6:D:447:VAL:HG11	2.00	0.62
2:H:11:C:H2'	2:H:12:G:H8	1.63	0.62
2:Y:6:U:C2'	2:Y:7:G:C8	2.80	0.62
6:D:1209:LEU:HD23	6:D:1211:MET:N	2.07	0.62
6:D:795:VAL:CG2	6:D:879:ARG:HH12	2.12	0.62
4:A:176:ARG:HB2	5:C:864:GLY:HA3	1.82	0.62
6:N:996:TRP:CD2	6:N:1056:PRO:HG2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:516:ARG:HH11	5:C:521:PRO:HB3	1.61	0.62
4:A:54:THR:HB	10:A:338:HOH:O	1.98	0.62
4:L:123:MET:O	4:L:125:PRO:HD3	2.00	0.62
5:C:121:MET:HA	10:C:1560:HOH:O	1.98	0.62
6:D:456:MET:HA	6:D:460:ALA:HB2	1.82	0.62
6:N:863:VAL:HG23	10:N:8432:HOH:O	2.00	0.62
5:C:204:GLN:N	5:C:204:GLN:HE21	1.97	0.62
6:N:1281:VAL:HG21	6:N:1313:VAL:HG21	1.81	0.62
6:N:1281:VAL:HG11	6:N:1313:VAL:HG13	1.81	0.62
5:C:363:SER:HB3	10:C:1469:HOH:O	1.98	0.62
6:N:125:GLN:NE2	6:N:587:ARG:HE	1.98	0.62
5:C:954:THR:HG22	10:C:1675:HOH:O	1.99	0.62
5:C:733:ALA:HB2	6:D:679:ARG:NH1	2.15	0.62
5:M:1034:GLU:N	6:N:619:LEU:HB3	2.15	0.62
2:Y:7:G:H22	5:M:1014:SER:CA	2.13	0.62
5:M:1058:ASP:HB3	5:M:1082:PRO:HB3	1.81	0.62
7:E:14:ASP:OD1	7:E:18:ARG:HD2	1.99	0.62
1:G:18:DG:H8	1:G:18:DG:H5'	1.64	0.62
5:M:13:ILE:HB	10:M:1213:HOH:O	2.00	0.62
5:C:937:ASP:HB3	5:C:940:GLU:H	1.65	0.62
5:M:404:LEU:HA	5:M:407:LYS:CD	2.27	0.62
5:M:762:LYS:NZ	5:M:786:LYS:HA	2.13	0.62
5:M:627:ARG:HA	10:M:1175:HOH:O	1.99	0.62
5:C:996:LYS:HD2	10:C:1724:HOH:O	1.99	0.62
5:M:979:THR:HG23	5:M:981:GLU:H	1.65	0.62
5:M:838:LYS:HG2	10:M:1239:HOH:O	1.99	0.62
5:M:510:ALA:HB3	5:M:513:VAL:HG23	1.80	0.62
5:C:808:ARG:HH21	5:C:820:ARG:HH21	1.47	0.62
10:M:1310:HOH:O	6:N:531:ASP:HA	1.99	0.62
4:A:47:SER:HG	4:B:32:PHE:HZ	1.48	0.61
5:C:89:THR:HA	5:C:129:ILE:O	1.99	0.61
6:N:205:TYR:HA	10:N:8635:HOH:O	1.99	0.61
6:D:864:VAL:HG23	6:D:877:PRO:HD3	1.82	0.61
5:M:292:ARG:HB3	10:M:1206:HOH:O	2.00	0.61
7:O:68:LEU:CD1	7:O:73:LEU:HD22	2.29	0.61
7:E:68:LEU:HD11	7:E:73:LEU:HD22	1.81	0.61
6:N:408:GLU:HB3	10:N:8387:HOH:O	2.00	0.61
5:M:244:PRO:HG2	5:M:246:ASP:OD2	2.00	0.61
6:N:140:ALA:HB1	10:N:8041:HOH:O	1.98	0.61
5:M:1076:VAL:HG13	10:M:1468:HOH:O	1.98	0.61
5:C:1045:ALA:HB2	6:D:763:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:54:THR:HG22	4:L:158:ILE:HG13	1.82	0.61
6:D:162:ARG:HH22	6:D:414:ARG:HH21	1.48	0.61
6:D:1305:LEU:HD21	10:D:8022:HOH:O	1.99	0.61
6:D:882:PHE:HA	6:D:885:ILE:HD12	1.80	0.61
5:C:1008:ARG:HB2	5:C:1027:PHE:HB2	1.83	0.61
5:C:144:PRO:HG2	5:C:265:ARG:NH1	2.15	0.61
5:M:524:VAL:HG13	5:M:528:GLU:HB2	1.82	0.61
6:D:1033:GLN:HE21	6:D:1036:ARG:CZ	2.13	0.61
5:M:677:MET:HE2	5:M:859:PRO:HG2	1.82	0.61
5:M:211:LEU:HD12	5:M:211:LEU:O	1.99	0.61
6:N:191:LEU:HD22	6:N:393:ILE:HG21	1.82	0.61
6:D:179:VAL:HG21	6:D:189:GLN:HE22	1.65	0.61
5:C:34:VAL:HB	5:C:38:LYS:HG3	1.81	0.61
5:C:660:ALA:HB1	5:C:667:ALA:O	2.00	0.61
5:C:279:GLU:HG3	5:C:280:LYS:HG3	1.82	0.61
6:N:654:LYS:HB3	6:N:655:PRO:HD3	1.82	0.61
6:D:119:SER:CB	6:D:123:LEU:HB2	2.29	0.61
2:Y:9:G:H2'	2:Y:10:G:H8	1.64	0.61
6:N:133:ILE:HG23	6:N:455:ARG:C	2.21	0.61
5:C:937:ASP:O	5:C:941:VAL:HG23	1.99	0.61
4:A:123:MET:O	4:A:125:PRO:HD3	2.00	0.61
6:D:554:LEU:O	6:D:558:LEU:HG	2.00	0.61
6:N:206:ARG:NH2	6:N:394:LEU:HD13	2.15	0.61
6:D:1264:GLU:HG2	6:D:1266:ARG:NH2	2.14	0.61
6:D:1258:ARG:HH21	6:D:1351:GLU:CG	2.13	0.61
6:N:971:LEU:HB3	10:N:8554:HOH:O	1.99	0.61
6:N:1109:GLU:HA	10:N:8268:HOH:O	2.00	0.61
6:D:1035:ILE:HA	6:D:1038:LEU:HD12	1.81	0.61
5:M:516:ARG:NH1	6:N:1068:LEU:HD22	2.16	0.61
2:Y:7:G:H21	5:M:1021:LEU:CB	2.12	0.61
6:N:452:ILE:HB	10:N:8318:HOH:O	2.01	0.61
5:M:141:HIS:CB	5:M:418:LEU:HG	2.29	0.61
5:M:318:PRO:HD2	5:M:321:GLU:OE1	2.01	0.61
5:C:190:LYS:HD2	5:C:190:LYS:H	1.65	0.61
6:D:1147:ARG:HB3	6:D:1188:VAL:CG2	2.30	0.61
5:C:946:ARG:HB3	5:C:946:ARG:HH11	1.64	0.61
6:N:1273:VAL:HG22	6:N:1326:THR:OG1	2.00	0.61
4:K:39:PRO:HG3	4:L:39:PRO:HG3	1.82	0.61
4:A:164:ALA:HB1	10:A:444:HOH:O	2.00	0.61
6:N:615:ARG:HH22	6:N:1096:ARG:CD	2.13	0.61
6:D:1301:LYS:HG3	6:D:1303:TYR:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:26:VAL:HG11	6:N:44:LEU:HD23	1.82	0.61
5:C:1090:LYS:HE3	6:D:90:MET:HG3	1.82	0.61
5:C:460:ARG:NH1	5:C:462:ASP:HA	2.15	0.61
5:C:487:THR:HG22	5:C:489:THR:H	1.65	0.61
5:M:804:VAL:HG12	10:M:1618:HOH:O	2.01	0.61
5:C:193:LEU:HD23	5:C:307:LEU:CD2	2.30	0.61
6:N:1493:LYS:O	6:N:1497:GLU:HG2	2.00	0.61
6:D:671:LYS:O	6:D:675:ARG:HG3	2.01	0.61
5:C:939:ARG:CA	5:C:939:ARG:HE	2.07	0.61
6:D:41:ARG:HD3	6:D:42:ASP:N	2.15	0.61
5:C:999:HIS:HB2	10:C:1147:HOH:O	2.00	0.61
6:N:181:ASP:OD1	6:N:205:TYR:HB2	2.00	0.61
5:C:537:LYS:HG3	5:C:545:ASN:OD1	2.00	0.61
6:N:947:ILE:HB	10:N:8024:HOH:O	2.00	0.61
5:C:54:ILE:HG13	5:C:356:ARG:NH2	2.15	0.61
5:C:578:VAL:HA	5:C:900:ARG:HG3	1.82	0.61
6:N:572:ARG:HD2	10:N:8114:HOH:O	1.99	0.61
6:D:637:LEU:HD21	6:D:642:CYS:HA	1.81	0.61
6:D:1366:LYS:O	6:D:1370:ILE:HG12	2.01	0.61
5:C:1118:LYS:HB2	10:C:1559:HOH:O	2.00	0.61
6:D:477:LEU:HD11	6:D:495:ARG:HG2	1.81	0.61
5:M:913:GLU:O	5:M:917:LEU:HG	2.01	0.61
4:K:128:HIS:HE1	4:K:131:THR:HG23	1.65	0.61
4:A:56:VAL:HG13	4:A:142:VAL:HG12	1.82	0.61
2:Y:12:G:O2'	2:Y:13:C:H5'	2.00	0.61
5:C:374:ASN:ND2	5:C:377:PRO:HD3	2.15	0.61
6:N:409:VAL:CG2	6:N:421:LEU:HA	2.31	0.61
4:A:72:LYS:HE2	5:C:641:PRO:O	2.00	0.61
5:C:600:ASP:OD1	5:C:650:ARG:HA	2.01	0.61
5:M:236:ILE:HD11	10:M:1636:HOH:O	2.00	0.61
6:N:1233:GLY:HA2	6:N:1236:LEU:HG	1.83	0.61
6:D:1228:SER:HA	10:D:8242:HOH:O	1.99	0.61
4:A:44:LEU:HD23	4:A:48:ILE:HD11	1.82	0.61
4:A:9:PRO:HB2	4:B:224:TYR:HB3	1.83	0.61
2:H:13:C:H2'	2:H:14:G:C8	2.35	0.61
6:D:95:LEU:HD12	10:D:8465:HOH:O	2.00	0.61
5:M:64:LEU:HD22	5:M:359:MET:HG3	1.83	0.61
5:C:685:GLU:OE2	6:D:783:ARG:HD2	2.00	0.61
6:N:125:GLN:HE22	6:N:587:ARG:HE	1.47	0.61
5:M:349:ALA:HB2	10:M:1372:HOH:O	2.01	0.61
4:K:64:GLU:HG3	10:K:1194:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1310:ARG:HE	6:D:1327:ARG:CG	2.14	0.61
5:M:18:LEU:HG	5:M:408:ARG:HH12	1.65	0.61
6:D:787:LEU:HD21	6:D:947:ILE:HD13	1.80	0.61
6:N:714:GLN:HB2	6:N:716:PHE:HE1	1.66	0.61
5:C:281:LEU:HD12	5:C:309:TYR:HB2	1.82	0.61
5:C:710:ILE:HD11	5:C:758:ARG:HE	1.66	0.61
6:N:1057:VAL:HG13	6:N:1069:GLU:HG2	1.81	0.61
6:D:868:TYR:CE1	6:D:869:MET:HG3	2.36	0.61
6:N:1492:LEU:HD13	6:N:1492:LEU:O	2.00	0.61
6:N:1314:LYS:HD2	10:N:8205:HOH:O	2.00	0.61
5:C:524:VAL:CG1	5:C:528:GLU:HB2	2.31	0.61
6:D:1292:VAL:HG11	6:D:1325:LEU:HG	1.82	0.60
5:M:1115:LEU:HB3	6:N:85:VAL:HG12	1.82	0.60
5:M:860:HIS:CE1	5:M:975:TYR:HB2	2.36	0.60
6:N:783:ARG:NE	6:N:1029:ARG:HG3	2.16	0.60
5:C:193:LEU:HD23	5:C:307:LEU:HD21	1.83	0.60
6:N:1389:LEU:HB3	10:N:8500:HOH:O	2.01	0.60
6:D:1102:THR:HG21	6:D:1371:VAL:HG22	1.83	0.60
5:C:971:LYS:HE3	10:C:1540:HOH:O	2.01	0.60
5:C:118:ILE:HG22	5:C:382:ILE:HD13	1.82	0.60
6:N:504:ASP:HB3	10:N:8345:HOH:O	2.01	0.60
5:C:224:GLU:HA	10:C:1483:HOH:O	2.00	0.60
6:D:1031:ASN:OD1	6:D:1034:GLN:HG3	2.01	0.60
6:N:546:ARG:HD2	10:N:8125:HOH:O	2.01	0.60
6:N:671:LYS:O	6:N:675:ARG:HG3	2.01	0.60
2:H:5:C:H2'	2:H:6:U:C5	2.36	0.60
6:D:1295:GLU:CG	6:N:77:GLY:H	2.14	0.60
1:G:18:DG:H2''	1:G:19:DC:C5'	2.27	0.60
5:M:939:ARG:HD3	5:M:982:PRO:HD3	1.83	0.60
5:C:1067:TYR:HE1	6:D:655:PRO:HG3	1.65	0.60
6:N:984:THR:HG23	6:N:986:ARG:H	1.66	0.60
6:N:1296:SER:C	6:N:1298:GLY:H	2.05	0.60
4:B:86:VAL:HG12	4:B:124:ASN:HD22	1.63	0.60
5:M:1037:VAL:HG13	5:M:1049:LEU:HD11	1.83	0.60
2:H:9:G:H2'	2:H:10:G:H8	1.66	0.60
5:C:110:GLU:HG3	5:C:369:PRO:HG3	1.82	0.60
5:M:1095:LEU:HD23	6:N:582:LEU:HD22	1.83	0.60
5:M:861:LEU:HG	5:M:862:PRO:HD2	1.83	0.60
6:D:102:ILE:HB	6:D:579:ASP:OD1	1.99	0.60
6:D:699:VAL:HG22	6:D:756:GLN:NE2	2.16	0.60
6:N:767:HIS:CE1	7:O:2:ALA:HB1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:195:LEU:O	5:M:199:VAL:HG23	2.02	0.60
7:E:54:LEU:HG	7:E:58:PRO:HG2	1.82	0.60
6:D:1080:GLY:HA3	10:D:8567:HOH:O	2.01	0.60
5:C:532:MET:HE1	10:C:1129:HOH:O	2.01	0.60
6:N:1402:ALA:HB2	6:N:1415:VAL:CG2	2.31	0.60
5:C:74:GLY:O	5:C:76:PRO:HD3	2.01	0.60
6:D:125:GLN:HE22	6:D:587:ARG:HE	1.48	0.60
6:D:24:GLY:HA3	6:D:49:ILE:HG12	1.82	0.60
6:D:139:GLY:O	6:D:147:VAL:HB	2.01	0.60
6:N:9:ARG:HH12	6:N:11:ALA:HB2	1.66	0.60
4:A:176:ARG:HG3	4:A:200:TRP:CE3	2.37	0.60
4:K:228:PRO:HB3	10:K:3002:HOH:O	2.00	0.60
5:M:281:LEU:CD1	5:M:306:THR:HA	2.31	0.60
6:N:1487:VAL:HB	7:O:79:LEU:HD21	1.84	0.60
4:A:67:THR:HG22	10:A:417:HOH:O	2.02	0.60
6:N:1394:VAL:HG21	10:N:8571:HOH:O	2.01	0.60
5:M:798:GLY:H	5:M:827:VAL:CG1	2.14	0.60
5:M:252:LYS:HD3	5:M:296:GLY:HA2	1.84	0.60
10:H:1726:HOH:O	5:C:777:ILE:HD11	2.01	0.60
6:D:470:LEU:HB2	6:D:503:LEU:HD21	1.82	0.60
6:N:542:ASP:HB3	10:N:8054:HOH:O	2.01	0.60
5:C:13:ILE:HG22	10:C:1490:HOH:O	2.01	0.60
5:C:141:HIS:HB3	5:C:418:LEU:HB3	1.84	0.60
7:O:64:ALA:O	7:O:68:LEU:HD13	2.00	0.60
6:N:800:LYS:HD2	6:N:804:LEU:HD22	1.83	0.60
6:D:1101:VAL:CG2	6:D:1424:VAL:HG23	2.32	0.60
5:M:1119:ARG:HA	10:M:1124:HOH:O	2.01	0.60
4:K:33:GLY:O	4:K:195:LEU:HD22	2.01	0.60
5:M:598:GLU:HG3	5:M:623:TYR:OH	2.02	0.60
7:O:36:LYS:HB2	10:O:3018:HOH:O	2.01	0.60
2:H:4:U:H2'	2:H:5:C:C6	2.37	0.60
6:N:10:ILE:HG13	6:N:1434:TRP:CZ2	2.36	0.60
5:M:162:ILE:O	5:M:164:PRO:HD3	2.02	0.60
5:C:881:ASN:O	5:C:884:GLN:HG3	2.02	0.60
5:C:810:ASP:HB3	5:C:813:VAL:HG12	1.82	0.60
5:M:346:VAL:O	5:M:350:ARG:HG3	2.01	0.60
5:M:1074:GLU:HG2	5:M:1075:ASP:H	1.66	0.60
6:D:67:ARG:HD2	10:D:8096:HOH:O	2.01	0.60
5:C:95:TYR:CD2	5:C:114:PHE:HB3	2.36	0.60
5:C:116:GLY:HA2	5:C:379:GLU:OE1	2.01	0.60
6:D:779:ALA:HB2	10:D:8236:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1442:ASN:ND2	6:D:1444:THR:HB	2.16	0.60
5:C:774:LEU:HD21	10:C:1610:HOH:O	2.01	0.60
6:N:699:VAL:HG22	6:N:756:GLN:NE2	2.16	0.60
6:N:817:GLU:OE2	6:N:840:LYS:HG2	2.02	0.60
5:C:146:VAL:HG11	10:C:1340:HOH:O	2.00	0.60
6:N:471:GLU:OE1	6:N:503:LEU:HD21	2.02	0.60
6:N:1356:TYR:HB3	6:N:1361:VAL:HB	1.84	0.60
6:D:47:GLU:HG2	6:D:53:ILE:HB	1.82	0.60
4:A:49:PRO:HB3	4:A:148:VAL:HG22	1.84	0.60
6:D:1377:LYS:HG2	6:D:1378:TYR:CE1	2.36	0.60
6:D:165:LYS:NZ	6:D:397:LYS:HD2	2.16	0.60
2:H:12:G:O2'	2:H:13:C:H5'	2.01	0.60
2:H:8:C:H2'	2:H:9:G:C8	2.36	0.60
6:D:1276:GLU:HG2	10:D:8241:HOH:O	2.00	0.60
5:C:857:ASP:HB2	5:C:978:ARG:CG	2.32	0.60
6:N:136:ASP:CB	6:N:137:PRO:HD3	2.31	0.60
6:N:921:ARG:HB3	10:N:8100:HOH:O	2.01	0.60
5:M:265:ARG:HD3	5:M:267:TYR:HB3	1.83	0.60
5:M:606:VAL:HG11	5:M:643:VAL:O	2.02	0.60
6:N:567:ILE:O	6:N:571:LYS:HG2	2.02	0.60
5:C:637:LEU:HA	5:C:659:PRO:HG3	1.82	0.60
4:L:7:LYS:O	4:L:7:LYS:HD3	2.01	0.60
7:O:70:THR:HG21	7:O:72:ARG:CZ	2.32	0.60
6:D:165:LYS:HZ3	6:D:199:LEU:HD11	1.67	0.60
5:C:1031:ARG:HG3	6:D:621:LYS:HB3	1.83	0.60
6:D:771:SER:HB3	6:D:778:LEU:HD13	1.84	0.60
5:M:1096:ALA:O	6:N:13:ALA:HB2	2.02	0.60
5:C:135:VAL:HG11	5:C:407:LYS:HA	1.83	0.60
4:A:99:LEU:HD13	4:A:144:VAL:HG21	1.84	0.60
6:D:1389:LEU:HG	6:D:1390:LEU:H	1.66	0.60
6:D:804:LEU:HD23	6:D:804:LEU:H	1.67	0.60
4:K:27:PRO:HG2	4:K:186:LEU:HD13	1.84	0.60
6:D:907:GLU:HG2	6:D:909:ASN:H	1.65	0.60
5:M:895:TYR:HA	10:M:1402:HOH:O	2.01	0.60
4:L:206:THR:CG2	4:L:209:GLU:H	2.14	0.60
6:N:825:ALA:HA	10:N:8043:HOH:O	2.02	0.60
6:D:1430:SER:HA	10:D:8301:HOH:O	2.01	0.60
6:D:10:ILE:HG13	6:D:1434:TRP:CZ2	2.36	0.60
6:D:454:ALA:O	6:D:455:ARG:HG3	2.01	0.60
2:H:16:G:H21	6:D:705:ALA:CB	2.08	0.60
4:A:221:HIS:HA	4:A:224:TYR:HD2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:186:LEU:HG	10:A:429:HOH:O	2.00	0.60
5:C:265:ARG:HD3	5:C:267:TYR:HB3	1.83	0.60
5:C:113:VAL:HB	5:C:115:LEU:HD23	1.83	0.60
5:C:163:ILE:HD12	5:C:171:TRP:CH2	2.37	0.60
6:N:1383:ASP:HB2	6:N:1416:ALA:HB3	1.83	0.60
6:N:774:SER:HB3	6:N:1362:LYS:O	2.02	0.60
6:N:1156:LEU:CD1	6:N:1176:LYS:HE3	2.32	0.60
4:L:67:THR:HG22	10:L:372:HOH:O	2.02	0.60
6:D:1095:THR:CG2	6:D:1230:GLY:HA3	2.27	0.59
6:N:181:ASP:HA	6:N:205:TYR:CD1	2.37	0.59
6:D:1379:VAL:HA	6:D:1420:LEU:HB2	1.84	0.59
5:C:455:LEU:HD13	5:C:459:ALA:HB3	1.83	0.59
6:N:971:LEU:HD23	10:N:8554:HOH:O	2.00	0.59
5:M:302:VAL:O	5:M:306:THR:HG23	2.02	0.59
4:B:59:GLU:HG3	4:B:139:ASN:HD22	1.66	0.59
5:C:1071:ILE:O	6:D:659:LYS:HB2	2.01	0.59
6:N:1112:CYS:HB2	6:N:1195:GLN:HG2	1.83	0.59
6:D:104:PHE:CD2	6:D:1448:THR:HG23	2.37	0.59
6:D:162:ARG:HG2	10:D:8606:HOH:O	2.02	0.59
2:Y:16:G:H21	6:N:705:ALA:HB1	1.67	0.59
4:A:181:VAL:H	5:C:937:ASP:CG	2.05	0.59
5:M:837:ASP:HA	5:M:999:HIS:HE1	1.66	0.59
5:C:759:THR:HB	5:C:785:VAL:HG22	1.84	0.59
4:B:59:GLU:HB2	4:B:137:ARG:HH12	1.67	0.59
4:A:169:ALA:HB1	4:A:171:PHE:CE2	2.36	0.59
7:E:88:GLU:HB3	10:E:123:HOH:O	2.00	0.59
6:D:134:VAL:HG13	6:D:152:LEU:HB3	1.83	0.59
6:D:206:ARG:CG	6:D:394:LEU:HD22	2.31	0.59
2:H:1:G:C5'	2:H:2:A:OP1	2.50	0.59
5:M:1031:ARG:NE	6:N:621:LYS:HB3	2.17	0.59
5:C:1046:ALA:HB1	6:D:1471:LEU:HD11	1.84	0.59
6:N:710:ARG:HA	10:N:8504:HOH:O	2.02	0.59
7:E:28:GLN:HB3	7:E:32:ARG:HH12	1.66	0.59
6:D:36:THR:C	6:D:38:LYS:H	2.04	0.59
6:D:519:VAL:HA	6:D:544:TYR:OH	2.02	0.59
6:D:618:LEU:HD21	6:D:1463:LYS:HE2	1.84	0.59
7:E:21:VAL:HG12	10:E:131:HOH:O	2.02	0.59
5:M:193:LEU:HD23	5:M:307:LEU:HD21	1.83	0.59
5:M:129:ILE:HG12	5:M:386:PHE:O	2.02	0.59
5:M:31:GLN:CD	5:M:34:VAL:HG23	2.23	0.59
6:N:882:PHE:O	6:N:886:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:12:THR:OG1	4:B:24:VAL:HB	2.02	0.59
6:D:179:VAL:HB	10:D:8006:HOH:O	2.01	0.59
5:C:144:PRO:HB3	10:C:1391:HOH:O	2.01	0.59
6:D:1047:LYS:HZ1	6:D:1053:PHE:HA	1.66	0.59
5:C:98:LEU:HD11	5:C:113:VAL:HG23	1.83	0.59
4:B:50:GLY:O	4:B:146:ARG:HA	2.02	0.59
6:N:1256:LEU:O	6:N:1260:ILE:HG12	2.03	0.59
4:L:199:ILE:HD11	4:L:211:LEU:HD13	1.83	0.59
6:D:30:GLU:HB3	6:D:40:GLU:HB3	1.83	0.59
5:C:266:ARG:HB3	10:C:1124:HOH:O	2.02	0.59
4:A:218:LEU:O	4:A:222:LEU:HD13	2.03	0.59
5:M:939:ARG:CA	5:M:939:ARG:HE	2.06	0.59
5:M:197:LEU:CD1	5:M:207:LEU:HD11	2.32	0.59
6:N:191:LEU:HD22	6:N:393:ILE:HD13	1.84	0.59
5:C:216:GLU:HG2	5:C:219:GLN:NE2	2.18	0.59
6:N:787:LEU:HD21	6:N:947:ILE:HD13	1.83	0.59
5:M:769:PRO:HG2	10:N:8051:HOH:O	2.02	0.59
6:D:1402:ALA:HB2	6:D:1415:VAL:CG2	2.33	0.59
6:D:677:LEU:HD21	6:D:687:VAL:HG11	1.85	0.59
4:L:59:GLU:HB2	4:L:137:ARG:NH1	2.18	0.59
6:N:438:ASP:HB2	6:N:445:ARG:HH12	1.67	0.59
5:C:677:MET:HB3	5:C:987:ILE:HD13	1.84	0.59
4:B:164:ALA:HA	10:B:404:HOH:O	2.01	0.59
6:N:808:THR:OG1	6:N:809:PRO:HD3	2.02	0.59
5:M:418:LEU:HD12	5:M:418:LEU:N	2.17	0.59
5:C:861:LEU:HD21	5:C:925:TYR:CE2	2.38	0.59
5:C:1090:LYS:NZ	5:C:1112:PHE:HE1	1.98	0.59
6:D:128:TYR:HB3	6:D:129:PHE:CD1	2.38	0.59
6:D:17:LYS:HG2	6:D:21:TRP:NE1	2.15	0.59
5:M:260:LEU:CB	5:M:291:ALA:HB1	2.33	0.59
6:N:160:GLU:HB3	6:N:165:LYS:CE	2.32	0.59
6:D:397:LYS:HE3	10:D:8729:HOH:O	2.01	0.59
5:M:173:ASP:HB2	5:M:185:LYS:HE2	1.85	0.59
5:M:3:ILE:CD1	5:M:900:ARG:HB3	2.32	0.59
5:C:428:ARG:HG2	5:C:451:LEU:HG	1.84	0.59
5:M:837:ASP:OD2	5:M:996:LYS:HE2	2.02	0.59
6:N:1312:LEU:HG	6:N:1327:ARG:HD2	1.84	0.59
6:D:484:PRO:HB3	6:D:488:ARG:HE	1.67	0.59
5:C:223:ASP:HB3	10:C:1648:HOH:O	2.02	0.59
6:D:550:ARG:HD2	6:D:573:MET:HE1	1.84	0.59
4:L:80:LEU:HD21	6:N:867:ARG:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:874:LEU:HD21	6:D:787:LEU:HD22	1.85	0.59
6:D:496:LEU:O	6:D:496:LEU:HD12	2.02	0.59
4:L:25:LEU:HD23	4:L:195:LEU:HB3	1.83	0.59
4:K:67:THR:HA	10:K:2858:HOH:O	2.02	0.59
6:D:786:ILE:HG21	6:D:1027:GLY:H	1.67	0.59
4:A:82:LEU:HD22	10:A:337:HOH:O	2.01	0.59
6:D:890:VAL:HG12	6:D:926:LYS:HE2	1.85	0.59
5:M:290:LEU:HD11	10:M:1415:HOH:O	2.03	0.59
6:N:65:ARG:HG3	6:N:66:GLN:H	1.67	0.59
5:C:30:LEU:HD22	5:C:118:ILE:HD11	1.85	0.59
5:M:967:PHE:HD1	5:M:972:VAL:HG12	1.68	0.59
4:A:220:GLU:O	4:A:223:THR:HG22	2.03	0.59
4:K:169:ALA:HB1	4:K:171:PHE:CE2	2.38	0.59
6:N:963:TYR:CD2	6:N:1002:LYS:HB3	2.37	0.59
5:M:1034:GLU:CG	6:N:619:LEU:HD13	2.33	0.59
6:N:72:VAL:CG2	6:N:77:GLY:HA2	2.33	0.59
6:D:882:PHE:O	6:D:886:VAL:HG23	2.02	0.59
4:A:180:GLN:HA	5:C:937:ASP:OD1	2.02	0.59
4:K:94:LEU:HD21	4:K:119:ASP:HB2	1.84	0.59
6:D:1441:GLN:NE2	6:D:1446:VAL:HG23	2.18	0.59
4:A:177:VAL:O	5:C:864:GLY:CA	2.51	0.59
4:A:150:TYR:OH	5:C:695:LEU:HD22	2.02	0.59
6:D:179:VAL:HG21	6:D:189:GLN:NE2	2.18	0.59
5:C:248:PRO:HB2	10:C:1558:HOH:O	2.01	0.59
5:C:564:MET:CE	5:C:840:ALA:HB3	2.33	0.59
5:C:1075:ASP:OD1	7:E:28:GLN:HG2	2.01	0.59
4:L:55:SER:OG	4:L:158:ILE:HB	2.02	0.59
4:B:101:LEU:HD11	4:B:113:ASP:HB3	1.84	0.59
4:K:69:PRO:O	4:K:71:VAL:HG23	2.03	0.59
6:D:119:SER:HB2	6:D:123:LEU:N	2.15	0.59
6:D:168:THR:CG2	6:D:206:ARG:HH12	2.16	0.59
6:D:409:VAL:HG23	6:D:421:LEU:HA	1.83	0.59
5:C:1034:GLU:HG2	6:D:619:LEU:HD13	1.85	0.59
5:M:1115:LEU:HD21	6:N:84:ILE:HD12	1.85	0.59
5:C:1016:ILE:CD1	5:C:1016:ILE:H	2.06	0.59
5:M:678:PRO:HG2	6:N:947:ILE:HD11	1.85	0.59
5:C:1027:PHE:HB3	10:C:1520:HOH:O	2.02	0.59
6:N:698:LYS:HD3	7:O:59:ASN:ND2	2.17	0.59
5:C:1056:LYS:O	6:D:624:ASP:HB2	2.02	0.59
5:C:119:PRO:HG3	10:C:1570:HOH:O	2.03	0.59
4:L:26:GLU:HB3	4:L:194:LYS:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:71:LYS:HD3	10:D:8060:HOH:O	2.03	0.59
5:M:677:MET:HB3	5:M:987:ILE:HD13	1.85	0.58
5:M:207:LEU:CD2	5:M:211:LEU:HD23	2.33	0.58
5:C:545:ASN:O	5:C:905:ILE:HD11	2.03	0.58
5:M:679:PHE:C	6:N:943:THR:HG22	2.23	0.58
6:N:143:ASN:ND2	6:N:145:VAL:HG12	2.17	0.58
5:M:578:VAL:H	5:M:671:ASN:ND2	2.00	0.58
6:D:695:ILE:CD1	6:D:718:PRO:HB2	2.33	0.58
6:D:970:LYS:O	6:D:974:ILE:HG13	2.03	0.58
6:N:1404:ASN:HB3	10:N:8091:HOH:O	2.03	0.58
5:M:998:TYR:CE2	5:M:1000:MET:HG3	2.37	0.58
6:D:1307:LYS:HD3	10:D:8371:HOH:O	2.03	0.58
6:D:148:GLU:HB2	10:D:8530:HOH:O	2.03	0.58
6:N:28:LYS:HB3	6:N:41:ARG:HD2	1.83	0.58
6:N:44:LEU:HD22	6:N:525:ARG:NH2	2.18	0.58
2:Y:13:C:H2'	2:Y:14:G:C8	2.37	0.58
6:D:478:LEU:HD22	6:D:1388:ARG:NE	2.18	0.58
5:M:786:LYS:HE3	10:M:1659:HOH:O	2.03	0.58
5:M:350:ARG:HA	5:M:353:ARG:HE	1.68	0.58
5:C:1096:ALA:O	6:D:13:ALA:HB2	2.02	0.58
5:C:385:PHE:HE1	10:C:1697:HOH:O	1.86	0.58
7:E:79:LEU:HD12	10:E:118:HOH:O	2.03	0.58
4:A:103:ALA:HB1	10:A:440:HOH:O	2.03	0.58
2:Y:9:G:O2'	2:Y:10:G:H5'	2.03	0.58
6:N:455:ARG:HB3	6:N:459:GLU:HG2	1.85	0.58
6:D:882:PHE:CE1	6:D:934:LEU:HD21	2.38	0.58
5:M:217:LEU:HB2	5:M:311:PHE:CZ	2.38	0.58
4:L:74:ASP:OD2	4:L:76:VAL:HG23	2.02	0.58
5:C:150:PRO:HA	5:C:158:TYR:HB3	1.85	0.58
4:K:177:VAL:HG22	4:K:199:ILE:HG13	1.85	0.58
6:D:1266:ARG:O	6:D:1268:PRO:HD3	2.02	0.58
6:N:1397:LYS:HD2	10:N:8646:HOH:O	2.03	0.58
6:D:1042:ARG:HD3	6:D:1061:PHE:CE1	2.39	0.58
4:B:65:PHE:CZ	6:D:813:LEU:HD13	2.38	0.58
5:M:568:ALA:HB1	10:M:1162:HOH:O	2.03	0.58
5:C:647:GLN:HA	10:C:1448:HOH:O	2.01	0.58
7:E:54:LEU:HA	7:E:58:PRO:HG2	1.84	0.58
7:E:54:LEU:HG	7:E:58:PRO:CG	2.34	0.58
6:D:868:TYR:CD1	6:D:869:MET:HG3	2.38	0.58
4:K:9:PRO:HB3	4:K:25:LEU:HG	1.85	0.58
6:N:988:ARG:O	6:N:992:ILE:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:432:ARG:HD3	6:D:1048:PRO:HG2	1.84	0.58
6:D:206:ARG:HG3	6:D:206:ARG:NH1	2.18	0.58
2:Y:7:G:H21	5:M:1021:LEU:HD22	1.69	0.58
6:N:463:GLN:O	6:N:467:GLU:HG3	2.04	0.58
6:N:12:LEU:HD13	6:N:511:TRP:HB2	1.84	0.58
5:M:194:VAL:HG21	5:M:221:LEU:O	2.02	0.58
4:L:25:LEU:CD2	4:L:195:LEU:HB3	2.33	0.58
4:A:150:TYR:HE2	4:A:152:PRO:HG3	1.69	0.58
5:M:687:ALA:O	5:M:688:ILE:HD12	2.04	0.58
6:N:976:GLN:HA	10:N:8208:HOH:O	2.02	0.58
5:M:148:PHE:CZ	5:M:309:TYR:HB3	2.38	0.58
4:B:211:LEU:O	4:B:215:VAL:HG13	2.03	0.58
10:D:8247:HOH:O	7:E:37:ASN:HB3	2.03	0.58
4:K:200:TRP:HB3	10:K:3307:HOH:O	2.02	0.58
6:D:1109:GLU:HG2	6:D:1201:CYS:HA	1.83	0.58
4:B:157:GLY:O	4:B:159:LYS:HE3	2.03	0.58
5:C:79:PRO:HB2	10:C:1485:HOH:O	2.03	0.58
6:N:142:LEU:HD12	10:N:8599:HOH:O	2.04	0.58
4:B:15:THR:HG22	10:B:326:HOH:O	2.03	0.58
10:M:1319:HOH:O	6:N:659:LYS:HA	2.03	0.58
2:H:8:C:H2'	2:H:9:G:N7	2.19	0.58
5:M:48:PHE:O	5:M:52:PHE:HB2	2.03	0.58
5:C:141:HIS:HB3	5:C:418:LEU:CD2	2.34	0.58
6:N:1018:ASN:HB3	6:N:1021:TYR:HB3	1.83	0.58
6:D:817:GLU:O	6:D:821:VAL:HG23	2.03	0.58
4:K:39:PRO:O	4:K:43:ILE:HG12	2.04	0.58
6:D:470:LEU:HD12	6:D:503:LEU:HG	1.86	0.58
6:D:553:ARG:HG3	10:D:8604:HOH:O	2.03	0.58
5:M:186:VAL:HG23	5:M:187:ASN:H	1.67	0.58
6:D:28:LYS:CB	6:D:41:ARG:HD2	2.32	0.58
5:C:318:PRO:HD2	5:C:321:GLU:OE1	2.03	0.58
6:D:1264:GLU:HB3	6:D:1266:ARG:NE	2.18	0.58
6:N:1319:VAL:HA	6:N:1323:GLN:NE2	2.18	0.58
5:C:690:ILE:HG23	5:C:852:ILE:HA	1.85	0.58
4:A:26:GLU:HB3	4:A:194:LYS:HG3	1.85	0.58
4:B:33:GLY:O	4:B:195:LEU:HD22	2.02	0.58
5:C:1036:GLU:HG3	6:D:707:THR:OG1	2.03	0.58
5:M:1101:THR:HB	6:N:5:VAL:HG13	1.86	0.58
6:N:465:LEU:HD22	6:N:510:GLU:HA	1.84	0.58
4:B:89:PHE:HB3	4:B:94:LEU:HD12	1.86	0.58
5:C:632:ASN:HB3	5:C:633:GLN:NE2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:27:PRO:HB3	4:L:192:LEU:HD22	1.85	0.58
6:D:101:HIS:ND1	6:D:103:TRP:HB2	2.17	0.58
5:C:605:LYS:HD3	10:C:1614:HOH:O	2.04	0.58
5:C:173:ASP:OD1	5:C:185:LYS:HB2	2.04	0.58
5:C:798:GLY:HA2	10:C:1470:HOH:O	2.04	0.58
6:N:1326:THR:HG22	6:N:1327:ARG:N	2.18	0.58
5:C:803:THR:HG21	10:C:1459:HOH:O	2.03	0.58
5:M:838:LYS:NZ	5:M:846:LYS:HZ1	2.02	0.58
6:N:970:LYS:HD3	6:N:995:LEU:HD13	1.85	0.58
4:A:8:ALA:HB1	4:B:224:TYR:CE1	2.38	0.58
6:N:1462:LEU:N	6:N:1462:LEU:HD23	2.17	0.58
5:M:775:ARG:HD2	5:M:782:ALA:HB3	1.86	0.58
7:E:59:ASN:HB3	7:E:62:THR:OG1	2.04	0.58
6:D:618:LEU:HD11	6:D:1463:LYS:HG3	1.86	0.58
6:D:1292:VAL:HG22	6:D:1311:LEU:HD13	1.86	0.58
6:N:523:ASP:N	10:N:8719:HOH:O	2.36	0.58
5:M:356:ARG:NH1	5:M:356:ARG:HB2	2.17	0.58
5:C:197:LEU:HB3	5:C:202:TYR:HB2	1.85	0.58
6:N:1319:VAL:HG12	6:N:1323:GLN:OE1	2.03	0.58
6:D:1120:VAL:HG11	6:D:1144:LEU:HG	1.85	0.58
6:N:1272:ALA:HA	6:N:1326:THR:HB	1.84	0.58
6:N:963:TYR:HB2	10:N:8217:HOH:O	2.03	0.58
4:B:73:GLU:HB3	4:B:77:GLU:HG2	1.85	0.58
6:N:965:GLU:HB3	10:N:8025:HOH:O	2.03	0.58
5:C:618:GLY:HA2	10:C:1286:HOH:O	2.03	0.58
6:N:72:VAL:HG22	6:N:77:GLY:HA2	1.85	0.58
6:N:9:ARG:HD3	6:N:1456:LYS:HG3	1.85	0.58
5:C:129:ILE:HG12	5:C:386:PHE:O	2.03	0.58
6:N:393:ILE:HG23	10:N:8019:HOH:O	2.03	0.58
5:C:1086:ARG:HD3	5:C:1112:PHE:HD2	1.69	0.58
4:L:94:LEU:HD13	4:L:120:VAL:HG22	1.86	0.58
5:C:260:LEU:CB	5:C:291:ALA:HB1	2.33	0.58
5:M:725:ASP:HB3	5:M:783:ARG:HH22	1.68	0.58
5:M:580:MET:HB3	5:M:584:GLU:CD	2.24	0.58
5:C:675:ALA:HB2	5:C:867:VAL:HG11	1.86	0.58
2:Y:4:U:H2'	2:Y:5:C:C6	2.38	0.58
7:E:25:LYS:HD3	10:E:131:HOH:O	2.03	0.58
5:M:943:VAL:HA	10:M:1214:HOH:O	2.03	0.58
5:M:190:LYS:HD3	10:M:1557:HOH:O	2.02	0.58
5:C:274:ARG:HG3	5:C:285:LEU:HD22	1.85	0.58
5:C:63:GLY:HA3	5:C:103:LYS:HG3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:578:VAL:H	5:M:671:ASN:HD21	1.50	0.58
6:N:1364:HIS:CE1	6:N:1366:LYS:HG3	2.39	0.58
5:C:727:PRO:CG	5:C:783:ARG:HH21	2.17	0.58
6:D:1120:VAL:HB	6:D:1144:LEU:HD21	1.85	0.58
6:N:1147:ARG:HD2	10:N:8060:HOH:O	2.02	0.58
6:N:656:PHE:HB3	6:N:694:VAL:HG11	1.84	0.58
6:D:1223:ILE:HD12	6:D:1223:ILE:H	1.68	0.58
6:D:704:ARG:NH1	6:D:743:ASP:HB3	2.19	0.57
5:M:1022:GLY:HA3	5:M:1026:GLN:O	2.04	0.57
2:Y:8:C:O5'	2:Y:8:C:H6	1.87	0.57
6:N:6:ARG:HA	6:N:1470:ARG:NH1	2.20	0.57
6:N:203:ALA:HB1	10:N:8019:HOH:O	2.04	0.57
4:L:75:VAL:HA	4:L:78:ILE:HD12	1.86	0.57
4:A:12:THR:OG1	4:A:24:VAL:HB	2.04	0.57
5:C:1105:LYS:HZ3	5:C:1107:ASN:HB2	1.68	0.57
6:N:996:TRP:CE3	6:N:999:THR:HG21	2.39	0.57
5:M:578:VAL:HG22	5:M:671:ASN:ND2	2.19	0.57
6:N:171:LEU:HD21	6:N:192:ALA:CB	2.34	0.57
5:M:380:ALA:O	5:M:384:GLU:HB2	2.02	0.57
4:B:86:VAL:HG12	4:B:124:ASN:ND2	2.19	0.57
5:M:1041:GLU:OE2	6:N:1462:LEU:HB2	2.04	0.57
4:K:150:TYR:HE2	4:K:152:PRO:HG3	1.68	0.57
6:N:1304:LYS:HG3	10:N:8254:HOH:O	2.03	0.57
6:N:1505:ALA:HA	10:N:8486:HOH:O	2.03	0.57
3:I:14:DG:H2'	10:I:1363:HOH:O	2.02	0.57
5:M:754:ILE:HD11	5:M:791:ARG:NH2	2.18	0.57
6:D:895:VAL:HG11	10:D:8656:HOH:O	2.04	0.57
6:N:28:LYS:HD2	6:N:41:ARG:CZ	2.33	0.57
4:A:42:ARG:HH11	5:C:978:ARG:CA	2.16	0.57
6:D:731:LEU:HD22	6:D:779:ALA:O	2.04	0.57
5:M:987:ILE:HD11	6:N:946:GLY:HA2	1.86	0.57
5:M:332:ARG:NE	5:M:464:LEU:HD11	2.18	0.57
4:A:85:LEU:HA	4:A:124:ASN:ND2	2.17	0.57
3:I:3:DA:H2''	3:I:4:DC:C5'	2.33	0.57
5:M:358:ARG:HB2	10:M:1606:HOH:O	2.03	0.57
4:K:197:LEU:HD13	10:K:1505:HOH:O	2.04	0.57
5:C:61:LYS:HB2	10:C:1623:HOH:O	2.02	0.57
5:C:697:ARG:O	5:C:699:PHE:N	2.37	0.57
4:A:45:LEU:HD23	5:C:855:VAL:HG22	1.85	0.57
5:M:148:PHE:CD1	5:M:313:LEU:HD22	2.39	0.57
5:M:321:GLU:HB2	10:M:1270:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:310:LEU:O	5:C:314:THR:HG23	2.04	0.57
6:N:584:ASN:HB2	6:N:602:SER:HB3	1.86	0.57
5:C:964:LYS:O	5:C:968:LEU:HG	2.02	0.57
5:C:58:ASP:O	5:C:59:LYS:HG3	2.04	0.57
6:D:173:PRO:HG2	10:D:8314:HOH:O	2.03	0.57
6:N:1177:ALA:HB3	6:N:1183:ILE:HD11	1.86	0.57
4:A:50:GLY:O	4:A:146:ARG:HA	2.05	0.57
10:C:1466:HOH:O	6:D:616:GLN:HA	2.03	0.57
6:D:1278:ASP:HB2	6:D:1320:GLU:HA	1.85	0.57
6:N:703:ASN:HD21	6:N:707:THR:HG23	1.70	0.57
2:Y:8:C:H2'	2:Y:9:G:C8	2.39	0.57
6:N:754:PHE:CZ	6:N:1476:THR:HG21	2.40	0.57
4:A:176:ARG:HH11	5:C:865:THR:HB	1.68	0.57
4:A:83:LYS:NZ	4:A:168:ASP:HB2	2.16	0.57
6:D:180:LYS:HG2	6:D:183:GLU:OE1	2.04	0.57
5:C:468:ARG:HG2	5:C:487:THR:HA	1.87	0.57
6:D:814:ALA:HA	10:D:8219:HOH:O	2.03	0.57
5:C:264:PRO:HB3	5:C:289:THR:HB	1.86	0.57
5:C:644:VAL:HG22	5:C:647:GLN:OE1	2.04	0.57
5:C:162:ILE:O	5:C:164:PRO:HD3	2.03	0.57
5:M:1045:ALA:HA	6:N:758:GLU:OE2	2.04	0.57
5:M:697:ARG:O	5:M:699:PHE:N	2.38	0.57
5:M:28:ARG:HG2	5:M:42:VAL:CG2	2.35	0.57
4:A:197:LEU:HG	4:A:199:ILE:HD11	1.84	0.57
5:M:1090:LYS:NZ	5:M:1112:PHE:HE1	2.02	0.57
5:M:943:VAL:HG23	5:M:985:GLY:H	1.70	0.57
1:X:19:DC:H5"	5:M:1001:VAL:CG2	2.35	0.57
5:M:703:ILE:H	5:M:703:ILE:HD12	1.70	0.57
7:O:54:LEU:CD2	7:O:63:TRP:HE1	2.18	0.57
6:D:572:ARG:HD2	10:D:8628:HOH:O	2.04	0.57
6:N:1047:LYS:NZ	6:N:1053:PHE:HA	2.19	0.57
4:L:59:GLU:HG3	4:L:139:ASN:HD22	1.69	0.57
6:N:114:THR:O	6:N:495:ARG:HG3	2.05	0.57
5:M:243:ARG:HD2	10:M:1420:HOH:O	2.04	0.57
4:B:175:ARG:O	6:D:851:LEU:HD21	2.03	0.57
6:D:1274:ILE:HD11	6:D:1334:GLN:HB3	1.86	0.57
6:D:1293:PHE:CD2	6:D:1300:SER:HB2	2.39	0.57
5:M:1016:ILE:HD13	5:M:1016:ILE:H	1.69	0.57
6:D:1284:GLU:OE1	6:N:74:GLU:HG2	2.04	0.57
5:M:1115:LEU:HD21	6:N:84:ILE:CD1	2.34	0.57
6:N:124:GLU:O	6:N:127:LEU:HD12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:32:ILE:HG12	6:N:38:LYS:O	2.04	0.57
5:M:45:GLN:HE21	5:M:49:ARG:NH1	2.01	0.57
5:M:612:VAL:HG13	5:M:621:VAL:C	2.24	0.57
5:C:695:LEU:HD21	5:C:832:LYS:HB3	1.86	0.57
6:N:957:PRO:HG2	6:N:1007:VAL:HG22	1.85	0.57
6:N:145:VAL:HG22	6:N:146:PRO:HD2	1.84	0.57
6:N:977:ALA:HB1	10:N:8226:HOH:O	2.04	0.57
6:N:515:GLU:HG2	10:N:8358:HOH:O	2.04	0.57
5:C:820:ARG:HD2	10:C:1214:HOH:O	2.04	0.57
5:M:521:PRO:HB3	6:N:1068:LEU:CD2	2.33	0.57
4:L:71:VAL:HG22	4:L:132:LEU:CD1	2.35	0.57
6:N:893:GLU:HG2	10:N:8097:HOH:O	2.05	0.57
5:C:503:LEU:HD23	5:C:507:ARG:O	2.05	0.57
6:N:701:LEU:HD11	6:N:750:PRO:HG3	1.85	0.57
6:D:1153:VAL:HG13	6:N:561:GLY:CA	2.30	0.57
6:D:95:LEU:HD23	6:D:551:ASN:OD1	2.03	0.57
4:A:176:ARG:HA	10:C:1358:HOH:O	2.05	0.57
5:M:355:VAL:HG23	5:M:372:LEU:O	2.03	0.57
6:D:1389:LEU:CG	6:D:1390:LEU:H	2.17	0.57
6:D:1042:ARG:HH22	6:D:1045:MET:CE	2.18	0.57
6:N:1055:VAL:HG22	10:N:8703:HOH:O	2.04	0.57
5:C:204:GLN:HB2	10:C:1638:HOH:O	2.03	0.57
5:C:218:VAL:HG22	5:C:221:LEU:HD23	1.84	0.57
5:M:387:SER:OG	5:M:388:ARG:HD2	2.04	0.57
6:N:633:VAL:HB	6:N:740:PHE:CE1	2.39	0.57
4:L:54:THR:CG2	4:L:158:ILE:HG13	2.34	0.57
4:B:159:LYS:HB3	10:B:451:HOH:O	2.05	0.57
4:B:69:PRO:HG3	10:B:344:HOH:O	2.03	0.57
7:O:19:LEU:O	7:O:23:VAL:HG23	2.05	0.57
6:D:1116:ASN:HB2	10:D:8442:HOH:O	2.05	0.57
6:N:827:ILE:HD12	6:N:827:ILE:H	1.68	0.57
6:D:1281:VAL:HG23	6:D:1319:VAL:HG21	1.87	0.57
6:D:1319:VAL:HG12	6:D:1323:GLN:OE1	2.04	0.57
2:Y:7:G:H2'	2:Y:7:G:N3	2.20	0.57
5:C:352:ALA:O	5:C:355:VAL:HG12	2.04	0.57
5:M:859:PRO:HB3	5:M:974:LEU:HD23	1.86	0.57
5:M:970:GLY:O	5:M:988:VAL:HB	2.04	0.57
1:G:18:DG:O4'	5:C:1002:GLU:HB3	2.04	0.57
5:C:1003:ASP:O	5:C:1005:MET:N	2.38	0.57
5:M:304:LEU:HB2	10:M:1346:HOH:O	2.04	0.57
3:Z:3:DA:H2''	3:Z:4:DC:C5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1396:GLU:O	6:N:1400:VAL:HG23	2.04	0.57
5:M:1044:GLY:HA2	10:N:8173:HOH:O	2.03	0.57
6:N:784:ASP:HB3	6:N:939:PHE:CE2	2.39	0.57
5:M:409:ARG:HB3	5:M:454:SER:OG	2.05	0.57
1:G:14:DT:C6	6:D:1089:ALA:HA	2.39	0.57
7:O:67:GLU:HB3	7:O:73:LEU:HD11	1.86	0.57
5:M:399:ASN:HB3	5:M:568:ALA:O	2.04	0.57
5:C:1053:LEU:HD11	6:D:1466:VAL:HG13	1.85	0.57
5:M:564:MET:HE3	5:M:997:LEU:HD11	1.86	0.57
5:M:707:ARG:HG3	5:M:826:TYR:CE1	2.40	0.57
6:N:988:ARG:HH11	6:N:988:ARG:HG3	1.70	0.57
6:D:1223:ILE:HD11	6:D:1462:LEU:HD12	1.86	0.57
6:D:1256:LEU:O	6:D:1260:ILE:HG12	2.05	0.57
4:A:88:ARG:HB3	10:A:343:HOH:O	2.04	0.57
7:E:83:ASP:O	7:E:86:GLN:HG2	2.05	0.57
6:D:157:GLU:HG3	10:D:8653:HOH:O	2.04	0.57
6:N:28:LYS:HG3	10:N:8501:HOH:O	2.05	0.57
6:N:51:GLY:HA3	6:N:86:ARG:CA	2.34	0.57
5:M:203:ASP:HB2	5:M:205:GLU:OE2	2.04	0.57
6:D:52:PRO:CG	6:D:80:VAL:HG13	2.32	0.57
5:C:687:ALA:C	5:C:688:ILE:HD12	2.25	0.57
6:D:1388:ARG:HA	10:D:8036:HOH:O	2.03	0.57
5:C:198:ARG:HD3	5:C:228:ALA:HA	1.87	0.57
4:B:212:ASN:O	4:B:215:VAL:HG22	2.05	0.57
6:D:547:LEU:HD22	6:D:581:LEU:HD21	1.87	0.57
6:D:1131:SER:HB2	10:D:8310:HOH:O	2.04	0.57
5:C:145:GLY:HA3	5:C:276:LYS:HD3	1.87	0.57
5:C:276:LYS:HA	5:C:280:LYS:HD2	1.86	0.57
6:N:517:VAL:HG12	10:N:8101:HOH:O	2.04	0.57
6:D:404:GLU:HA	10:D:8690:HOH:O	2.03	0.57
10:I:3108:HOH:O	5:C:152:PRO:HG3	2.04	0.57
6:N:90:MET:HE3	6:N:521:PRO:HD3	1.86	0.57
5:C:191:PHE:CE2	5:C:238:LEU:HD21	2.40	0.57
4:K:26:GLU:HG2	4:K:27:PRO:HG3	1.86	0.57
6:D:57:GLU:HG2	6:D:58:CYS:N	2.19	0.57
6:D:61:GLY:HA3	6:D:64:LYS:NZ	2.20	0.57
5:M:770:GLU:CG	6:N:65:ARG:HH21	2.17	0.57
6:N:157:GLU:HB3	10:N:8660:HOH:O	2.04	0.57
5:M:502:PRO:HB2	5:M:509:ALA:HB3	1.86	0.57
5:C:950:LEU:HD12	5:C:952:LEU:CD2	2.35	0.57
5:M:103:LYS:HE2	10:M:1169:HOH:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:984:THR:CG2	6:D:987:GLU:H	2.17	0.57
6:D:436:GLU:OE1	6:D:447:VAL:HG13	2.05	0.57
5:C:557:ARG:HG2	5:C:881:ASN:ND2	2.20	0.57
6:D:481:MET:SD	6:D:1388:ARG:HB3	2.44	0.57
1:G:22:DC:H5'	10:G:282:HOH:O	2.05	0.57
4:A:150:TYR:HE1	5:C:696:LYS:HA	1.68	0.57
4:B:206:THR:HB	4:B:209:GLU:OE2	2.05	0.57
5:M:857:ASP:CB	5:M:978:ARG:HG2	2.35	0.57
5:M:824:ARG:HD2	5:M:826:TYR:HE1	1.68	0.57
6:D:1105:ILE:CG1	6:D:1374:GLN:HE21	2.18	0.57
4:A:107:LYS:HD3	10:A:440:HOH:O	2.05	0.57
6:D:1482:ARG:HH21	6:D:1483:PHE:HZ	1.53	0.57
5:M:735:ARG:HA	10:M:1615:HOH:O	2.04	0.57
1:G:2:DC:H2''	1:G:3:DC:C6	2.40	0.57
6:D:1274:ILE:CG1	6:D:1334:GLN:HE21	2.18	0.56
2:Y:14:G:C2'	2:Y:15:C:H5'	2.35	0.56
5:C:860:HIS:CE1	5:C:975:TYR:HB2	2.40	0.56
6:D:615:ARG:HH22	6:D:1096:ARG:HD2	1.69	0.56
5:C:242:LEU:HA	10:C:1462:HOH:O	2.05	0.56
5:C:148:PHE:HE1	5:C:309:TYR:CD2	2.23	0.56
6:N:834:THR:HG22	6:N:838:ARG:HH11	1.69	0.56
5:C:1006:HIS:CE1	5:C:1027:PHE:HA	2.40	0.56
5:C:185:LYS:CG	5:C:190:LYS:HG3	2.35	0.56
6:D:1197:ARG:HB3	6:D:1396:GLU:CD	2.25	0.56
6:N:798:GLU:HB2	6:N:828:LYS:HE3	1.87	0.56
6:N:666:ILE:HG12	6:N:686:GLU:OE2	2.04	0.56
6:N:1404:ASN:HD21	6:N:1408:ILE:HD12	1.69	0.56
5:M:948:GLU:OE1	5:M:955:PRO:HA	2.05	0.56
6:N:1277:ILE:O	6:N:1294:VAL:HG11	2.04	0.56
6:D:199:LEU:HD23	6:D:200:ASP:N	2.20	0.56
6:D:135:LEU:HA	6:D:453:ASP:O	2.05	0.56
2:Y:5:C:H2'	2:Y:6:U:C5	2.39	0.56
4:A:39:PRO:CG	4:B:39:PRO:HG3	2.34	0.56
5:C:134:ARG:HH11	5:C:387:SER:HA	1.70	0.56
7:O:54:LEU:O	7:O:54:LEU:HD23	2.05	0.56
5:C:309:TYR:CE2	5:C:321:GLU:HB3	2.40	0.56
6:D:1465:ASN:ND2	6:D:1470:ARG:HB3	2.20	0.56
5:C:436:GLY:HA2	5:C:538:GLN:O	2.05	0.56
5:M:442:GLU:HG2	5:M:454:SER:HB2	1.86	0.56
5:C:759:THR:HG21	5:C:783:ARG:NH2	2.19	0.56
5:C:52:PHE:CG	5:C:68:PHE:HB2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:39:ARG:HD2	5:M:39:ARG:N	2.20	0.56
6:N:914:LEU:HD22	6:N:930:LEU:HD21	1.86	0.56
6:D:1317:ASP:HB3	10:D:8607:HOH:O	2.05	0.56
5:M:1031:ARG:HE	6:N:621:LYS:HB3	1.71	0.56
6:D:141:ILE:HG12	6:D:448:GLU:HG2	1.88	0.56
6:N:198:ARG:HA	10:N:8115:HOH:O	2.05	0.56
5:C:404:LEU:HA	5:C:407:LYS:CD	2.35	0.56
5:M:198:ARG:CZ	5:M:203:ASP:HA	2.35	0.56
1:G:13:DT:OP1	6:D:1096:ARG:NH2	2.38	0.56
6:N:1481:VAL:HG12	7:O:21:VAL:HG21	1.88	0.56
7:O:48:MET:HB3	7:O:54:LEU:HB2	1.86	0.56
6:D:171:LEU:HD13	10:D:8619:HOH:O	2.04	0.56
5:M:644:VAL:HG22	5:M:647:GLN:OE1	2.05	0.56
6:D:786:ILE:HG21	6:D:1027:GLY:N	2.20	0.56
6:D:826:PRO:HG3	10:D:8491:HOH:O	2.05	0.56
5:C:520:GLU:O	5:C:522:VAL:HG23	2.05	0.56
7:O:22:VAL:HG12	7:O:68:LEU:HD21	1.88	0.56
5:M:285:LEU:HB3	10:M:1611:HOH:O	2.04	0.56
5:C:48:PHE:O	5:C:52:PHE:HB2	2.04	0.56
5:M:654:LEU:HD23	5:M:654:LEU:H	1.70	0.56
4:L:138:LEU:HB2	10:L:342:HOH:O	2.05	0.56
6:D:600:LEU:HD12	6:D:600:LEU:H	1.70	0.56
5:M:866:PRO:HD3	10:M:1425:HOH:O	2.04	0.56
6:N:397:LYS:HG3	10:N:8403:HOH:O	2.05	0.56
6:D:1290:LEU:HD21	10:D:8408:HOH:O	2.05	0.56
5:C:320:HIS:HB2	10:C:1256:HOH:O	2.05	0.56
5:M:455:LEU:HD12	5:M:456:ALA:O	2.06	0.56
6:D:399:ARG:HD2	6:D:401:TYR:OH	2.05	0.56
6:D:432:TYR:HB3	6:D:450:TYR:CB	2.34	0.56
4:A:86:VAL:HG22	10:A:317:HOH:O	2.05	0.56
7:O:28:GLN:HB3	7:O:32:ARG:HH12	1.69	0.56
6:N:911:LEU:HD23	6:N:934:LEU:HD13	1.88	0.56
5:C:200:LEU:HD23	5:C:298:PHE:HB2	1.87	0.56
5:C:905:ILE:N	5:C:905:ILE:HD12	2.20	0.56
5:C:418:LEU:N	5:C:418:LEU:HD12	2.19	0.56
4:A:168:ASP:OD1	5:C:832:LYS:NZ	2.38	0.56
6:N:957:PRO:HG3	6:N:1007:VAL:HA	1.87	0.56
6:D:957:PRO:HG2	6:D:1007:VAL:HG22	1.88	0.56
4:B:226:SER:HB3	10:B:333:HOH:O	2.04	0.56
6:D:1391:GLU:HB3	10:D:8047:HOH:O	2.05	0.56
6:D:1395:LEU:HD11	10:D:8490:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:698:ASP:HA	10:M:1212:HOH:O	2.05	0.56
6:D:127:LEU:HA	6:D:132:TYR:HD1	1.71	0.56
6:D:206:ARG:HH11	6:D:206:ARG:HG3	1.69	0.56
5:M:1016:ILE:HG12	5:M:1017:THR:H	1.70	0.56
6:N:782:SER:H	6:N:785:ILE:HD13	1.71	0.56
7:O:57:ASP:H	7:O:58:PRO:HD3	1.70	0.56
4:K:197:LEU:CD1	4:K:199:ILE:HD11	2.33	0.56
6:N:996:TRP:CE2	6:N:1056:PRO:HG2	2.40	0.56
6:N:421:LEU:HD11	6:N:429:SER:HB2	1.86	0.56
6:N:783:ARG:HA	6:N:1028:ALA:HA	1.87	0.56
5:M:813:VAL:HG13	10:M:1204:HOH:O	2.06	0.56
6:D:1120:VAL:HG23	6:D:1188:VAL:HG11	1.88	0.56
5:M:675:ALA:HB2	5:M:867:VAL:HG11	1.87	0.56
4:K:196:THR:HG23	10:K:2832:HOH:O	2.05	0.56
5:M:350:ARG:O	5:M:353:ARG:HB3	2.05	0.56
4:L:18:ARG:HH12	4:L:123:MET:CE	2.19	0.56
4:A:220:GLU:HG2	10:A:358:HOH:O	2.05	0.56
4:L:133:GLU:HG2	10:L:357:HOH:O	2.05	0.56
5:M:1033:GLY:O	5:M:1037:VAL:HG23	2.06	0.56
2:Y:2:A:H5''	6:N:671:LYS:NZ	2.19	0.56
6:D:1310:ARG:NH2	6:D:1327:ARG:HG2	2.17	0.56
2:Y:4:U:O2'	2:Y:5:C:H5'	2.05	0.56
4:A:221:HIS:HA	4:A:224:TYR:CD2	2.40	0.56
6:D:771:SER:HB3	6:D:778:LEU:HD22	1.87	0.56
6:D:1480:PHE:O	7:E:18:ARG:NH2	2.37	0.56
5:M:862:PRO:HB3	5:M:929:ARG:HH22	1.69	0.56
5:C:1087:VAL:O	5:C:1091:GLU:HG3	2.06	0.56
6:D:584:ASN:HA	10:D:8068:HOH:O	2.05	0.56
6:D:1192:LEU:HB3	6:D:1345:GLU:OE2	2.06	0.56
4:K:14:ARG:HH12	4:K:24:VAL:HG23	1.71	0.56
5:M:260:LEU:HD21	5:M:293:PHE:CD1	2.40	0.56
5:M:264:PRO:HB3	5:M:289:THR:CB	2.35	0.56
5:C:792:VAL:HG12	10:C:1750:HOH:O	2.04	0.56
4:A:185:ARG:HG3	4:A:185:ARG:O	2.05	0.56
6:D:165:LYS:HZ1	6:D:397:LYS:HD2	1.69	0.56
6:D:414:ARG:HG2	6:D:451:ASP:HA	1.87	0.56
6:D:1278:ASP:CG	6:N:41:ARG:HB2	2.25	0.56
5:M:1056:LYS:HB3	6:N:624:ASP:H	1.71	0.56
4:A:181:VAL:O	5:C:938:LYS:N	2.39	0.56
1:X:17:DC:H2''	1:X:18:DG:C5'	2.32	0.56
5:C:674:VAL:HG23	5:C:869:VAL:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:906:PHE:CD1	6:N:1067:VAL:HG22	2.41	0.56
5:C:88:LEU:HD22	5:C:814:GLU:HG2	1.88	0.56
5:M:195:LEU:HG	5:M:238:LEU:HG	1.87	0.56
6:N:684:LYS:HD3	6:N:686:GLU:OE1	2.06	0.56
5:M:513:VAL:HG22	10:M:1439:HOH:O	2.06	0.56
5:M:754:ILE:HG21	10:M:1317:HOH:O	2.06	0.56
4:B:57:TYR:HB3	4:B:141:GLU:HG3	1.86	0.56
6:N:1485:GLN:HG2	10:N:8341:HOH:O	2.05	0.56
6:N:894:LYS:O	6:N:898:GLU:HG3	2.05	0.56
4:L:100:LEU:HB2	4:L:115:LEU:HD21	1.88	0.56
6:D:133:ILE:HB	6:D:153:LEU:O	2.06	0.56
6:D:165:LYS:HB3	6:D:397:LYS:N	2.20	0.56
6:N:675:ARG:O	6:N:678:GLU:HG2	2.05	0.56
6:N:52:PRO:HD2	6:N:85:VAL:HG23	1.88	0.56
6:N:151:GLN:HG3	10:N:8491:HOH:O	2.05	0.56
6:D:787:LEU:HD21	6:D:947:ILE:CD1	2.35	0.56
5:M:1003:ASP:CG	6:N:724:GLN:HE22	2.09	0.56
4:A:211:LEU:O	4:A:215:VAL:HG23	2.06	0.56
4:B:20:TYR:OH	4:B:198:ARG:HD2	2.06	0.56
6:D:1263:PHE:CE2	6:D:1371:VAL:HG11	2.41	0.56
6:N:484:PRO:HB3	6:N:488:ARG:HE	1.71	0.56
6:D:1369:GLU:HA	6:D:1372:VAL:HG12	1.88	0.56
5:C:226:VAL:HG12	10:C:1483:HOH:O	2.06	0.56
6:D:53:ILE:HG21	10:D:8600:HOH:O	2.06	0.56
6:N:1403:LEU:O	6:N:1407:LEU:HB2	2.06	0.56
6:D:755:ALA:O	6:D:758:GLU:HG2	2.05	0.56
5:M:756:VAL:HG21	5:M:823:VAL:HG11	1.87	0.56
6:D:966:GLU:HB3	10:D:8745:HOH:O	2.05	0.56
4:K:215:VAL:HB	10:K:1091:HOH:O	2.04	0.56
6:N:452:ILE:HD12	10:N:8318:HOH:O	2.05	0.56
5:C:352:ALA:HA	5:C:355:VAL:HG12	1.87	0.56
5:C:372:LEU:HB2	10:C:1326:HOH:O	2.06	0.56
5:C:937:ASP:OD2	5:C:939:ARG:HG2	2.05	0.56
6:N:413:ASP:HB3	10:N:8723:HOH:O	2.05	0.56
5:M:546:LEU:O	5:M:842:ARG:HD2	2.06	0.56
5:M:759:THR:HG21	5:M:783:ARG:NH2	2.21	0.56
5:C:516:ARG:NE	6:D:1068:LEU:HD22	2.20	0.56
6:D:1403:LEU:O	6:D:1407:LEU:HB2	2.06	0.56
6:N:584:ASN:CG	6:N:590:PRO:HD2	2.26	0.56
5:C:773:LEU:O	5:C:777:ILE:HG13	2.06	0.56
5:M:261:ILE:H	5:M:261:ILE:HD12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:62:LEU:HD12	4:B:63:HIS:H	1.70	0.56
5:C:1095:LEU:HD21	10:D:8172:HOH:O	2.04	0.56
4:B:19:GLU:HG3	4:B:201:THR:O	2.06	0.56
6:D:955:VAL:HG23	6:D:1011:PHE:HE1	1.70	0.56
4:K:115:LEU:HD11	10:K:3034:HOH:O	2.06	0.56
6:D:1330:ILE:HG21	6:D:1335:LEU:HD22	1.88	0.56
6:D:204:LEU:O	6:D:394:LEU:HD23	2.05	0.56
2:H:8:C:H6	2:H:8:C:O5'	1.88	0.56
6:N:520:LEU:HD12	6:N:521:PRO:HD2	1.88	0.56
5:C:216:GLU:HG2	5:C:219:GLN:HE22	1.72	0.56
5:C:248:PRO:HD2	10:C:1283:HOH:O	2.05	0.56
6:D:55:ASP:HB3	10:D:8471:HOH:O	2.05	0.56
6:N:1272:ALA:CA	6:N:1326:THR:HB	2.36	0.56
6:N:1161:GLU:H	6:N:1161:GLU:CD	2.09	0.56
5:C:2:GLU:O	5:C:3:ILE:HD13	2.06	0.56
4:A:104:GLU:OE1	4:A:137:ARG:HG2	2.05	0.56
6:N:875:THR:HG23	6:N:879:ARG:HB2	1.88	0.56
6:D:1497:GLU:HB2	10:D:8662:HOH:O	2.05	0.56
4:A:195:LEU:HG	10:A:372:HOH:O	2.05	0.56
2:Y:7:G:N2	5:M:1021:LEU:HD22	2.21	0.55
5:M:1103:ASP:HB3	5:M:1105:LYS:NZ	2.21	0.55
5:M:333:ILE:HD13	5:M:467:ILE:HG13	1.88	0.55
6:D:85:VAL:O	6:D:89:ARG:HD2	2.07	0.55
4:A:178:ALA:HB2	5:C:864:GLY:N	2.21	0.55
5:C:12:VAL:HB	5:C:472:ARG:NH1	2.17	0.55
5:C:625:LEU:HB3	5:C:639:GLN:HB2	1.88	0.55
1:G:14:DT:H2"	1:G:15:DC:C5'	2.36	0.55
5:C:569:VAL:HG12	5:C:996:LYS:O	2.06	0.55
6:D:1217:ILE:HG21	10:D:8438:HOH:O	2.05	0.55
5:C:315:ALA:HB3	10:C:1250:HOH:O	2.05	0.55
5:M:1009:SER:OG	5:M:1010:THR:N	2.37	0.55
2:H:4:U:O2'	2:H:5:C:H5'	2.06	0.55
5:M:1091:GLU:OE1	6:N:613:ARG:HG2	2.06	0.55
7:O:42:PRO:HB2	10:O:1112:HOH:O	2.06	0.55
6:N:137:PRO:HD2	6:N:453:ASP:CG	2.26	0.55
6:D:1106:VAL:HG21	6:D:1474:ALA:HB2	1.87	0.55
5:C:300:ASP:HB3	10:C:1175:HOH:O	2.06	0.55
4:A:83:LYS:HD3	4:A:168:ASP:O	2.07	0.55
6:D:625:TYR:HB3	6:D:749:VAL:HG23	1.87	0.55
4:K:9:PRO:HD2	4:L:224:TYR:CE1	2.40	0.55
6:N:517:VAL:HG11	6:N:547:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:401:LEU:HD13	5:M:587:VAL:HG11	1.87	0.55
5:M:74:GLY:O	5:M:76:PRO:HD3	2.05	0.55
5:C:282:GLY:HA3	10:C:1259:HOH:O	2.06	0.55
6:D:1149:LEU:HG	6:D:1166:LEU:HD21	1.87	0.55
5:C:430:VAL:O	5:C:430:VAL:HG13	2.06	0.55
5:M:1032:PHE:HE2	5:M:1037:VAL:HA	1.71	0.55
6:N:704:ARG:HD2	6:N:705:ALA:H	1.71	0.55
5:M:139:GLN:NE2	5:M:415:PRO:HD3	2.21	0.55
5:M:418:LEU:H	5:M:418:LEU:CD1	2.19	0.55
6:D:50:PHE:O	6:D:86:ARG:HA	2.06	0.55
5:C:281:LEU:HD23	5:C:281:LEU:O	2.06	0.55
6:N:860:LEU:HD23	6:N:877:PRO:HB2	1.89	0.55
6:N:1007:VAL:HG12	6:N:1011:PHE:CE2	2.42	0.55
6:N:996:TRP:HA	6:N:999:THR:CG2	2.35	0.55
6:D:814:ALA:HB1	6:D:818:ARG:NH2	2.21	0.55
1:G:14:DT:C7	6:D:1089:ALA:HB2	2.36	0.55
5:C:564:MET:HA	5:C:567:GLN:OE1	2.05	0.55
4:A:140:MET:HG3	10:A:457:HOH:O	2.05	0.55
6:D:24:GLY:HA2	10:D:8385:HOH:O	2.06	0.55
4:B:14:ARG:HH11	4:B:14:ARG:HG3	1.71	0.55
6:D:917:GLN:HA	6:D:920:LEU:HD12	1.86	0.55
6:N:1342:GLU:HB2	10:N:8182:HOH:O	2.06	0.55
4:L:58:ILE:HG23	10:L:368:HOH:O	2.06	0.55
6:D:692:GLU:OE1	6:D:720:LEU:HD13	2.06	0.55
2:H:9:G:O2'	2:H:10:G:H5'	2.06	0.55
6:D:1476:THR:HG23	7:E:21:VAL:HG22	1.87	0.55
5:C:1001:VAL:HA	10:C:1226:HOH:O	2.06	0.55
4:A:14:ARG:NH2	5:C:934:PHE:HZ	2.04	0.55
5:C:577:PRO:O	5:C:900:ARG:HD3	2.06	0.55
4:K:176:ARG:HG3	4:K:200:TRP:HE3	1.71	0.55
5:C:612:VAL:HG22	5:C:622:GLU:HG3	1.88	0.55
5:M:293:PHE:HB3	10:M:1202:HOH:O	2.05	0.55
6:N:845:ASN:N	6:N:848:GLU:HG3	2.21	0.55
4:A:133:GLU:HG2	4:A:134:GLU:N	2.22	0.55
4:B:55:SER:OG	4:B:158:ILE:HB	2.06	0.55
6:D:112:ILE:HD11	6:D:116:LEU:HD12	1.88	0.55
6:D:120:ALA:HB2	10:D:8102:HOH:O	2.06	0.55
6:D:155:ASP:O	6:D:159:ARG:HB2	2.07	0.55
5:M:729:LEU:HD13	6:N:675:ARG:NH1	2.22	0.55
6:D:619:LEU:HD12	6:D:621:LYS:HE2	1.88	0.55
2:H:6:U:O5'	2:H:6:U:H6	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:1030:GLN:NE2	6:D:628:ARG:HD3	2.21	0.55
5:M:469:THR:HB	10:M:1352:HOH:O	2.07	0.55
5:M:221:LEU:HB3	10:M:1144:HOH:O	2.06	0.55
4:L:78:ILE:HB	10:L:362:HOH:O	2.05	0.55
6:N:792:ILE:HD12	6:N:941:PHE:CZ	2.42	0.55
6:D:490:ALA:HA	10:D:8168:HOH:O	2.07	0.55
6:N:926:LYS:HE3	6:N:929:ARG:HH11	1.71	0.55
5:M:1118:LYS:HA	6:N:23:TYR:HH	1.70	0.55
5:M:312:ALA:HB2	10:M:1351:HOH:O	2.07	0.55
6:N:1122:LEU:O	6:N:1135:ARG:HB2	2.06	0.55
5:C:960:GLU:HA	10:C:1200:HOH:O	2.05	0.55
3:I:10:DA:H3'	10:I:2633:HOH:O	2.06	0.55
5:M:547:ILE:HD12	5:M:550:LEU:HD13	1.87	0.55
6:D:403:PHE:CE2	6:D:444:VAL:HG23	2.41	0.55
6:D:1280:VAL:HA	6:D:1318:TYR:CA	2.32	0.55
6:N:4:GLU:HG2	6:N:6:ARG:CD	2.35	0.55
6:N:1128:VAL:O	6:N:1129:THR:C	2.45	0.55
5:M:372:LEU:HD12	10:M:1606:HOH:O	2.06	0.55
5:M:163:ILE:HG13	5:M:163:ILE:O	2.06	0.55
5:C:86:LYS:HD3	5:C:813:VAL:HA	1.89	0.55
5:C:17:PRO:O	5:C:20:GLU:HB3	2.07	0.55
5:M:762:LYS:HD3	5:M:784:ASP:O	2.06	0.55
1:G:14:DT:H5'	1:G:14:DT:H6	1.70	0.55
6:N:481:MET:HG2	10:N:8647:HOH:O	2.05	0.55
7:E:54:LEU:HG	7:E:58:PRO:HB2	1.89	0.55
6:D:1141:GLU:HB3	10:D:8538:HOH:O	2.07	0.55
6:D:677:LEU:HD22	10:D:8106:HOH:O	2.07	0.55
6:N:1336:LEU:HA	6:N:1344:VAL:HG22	1.87	0.55
6:D:897:TRP:HA	6:D:900:ILE:HG12	1.88	0.55
4:L:211:LEU:O	4:L:215:VAL:HG13	2.07	0.55
4:K:79:ILE:HG12	10:K:1194:HOH:O	2.05	0.55
6:N:963:TYR:CD2	6:N:1002:LYS:HD3	2.41	0.55
6:D:820:GLU:HA	6:D:825:ALA:O	2.07	0.55
6:D:566:ILE:HG23	10:D:8557:HOH:O	2.06	0.55
5:C:585:GLU:O	5:C:588:VAL:HG22	2.07	0.55
5:C:510:ALA:HB3	5:C:513:VAL:CG2	2.37	0.55
5:M:1032:PHE:CE2	5:M:1037:VAL:HA	2.42	0.55
5:C:1019:GLN:O	5:C:1021:LEU:HD12	2.07	0.55
6:D:1281:VAL:HG21	6:D:1313:VAL:HG21	1.89	0.55
6:N:40:GLU:HG3	6:N:41:ARG:N	2.21	0.55
6:N:623:VAL:HG21	6:N:748:HIS:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:939:ARG:CB	5:M:982:PRO:HG3	2.34	0.55
4:A:123:MET:HB2	10:A:317:HOH:O	2.05	0.55
5:M:119:PRO:HG2	5:M:386:PHE:CD1	2.42	0.55
4:L:83:LYS:HE2	4:L:168:ASP:OD2	2.07	0.55
4:L:120:VAL:HG11	10:L:399:HOH:O	2.05	0.55
5:C:106:GLY:O	5:C:107:LEU:HD23	2.06	0.55
5:M:622:GLU:O	5:M:624:PRO:HD3	2.07	0.55
5:C:40:GLU:HG2	10:C:1139:HOH:O	2.06	0.55
5:M:442:GLU:HG3	5:M:442:GLU:O	2.07	0.55
5:M:292:ARG:HB2	5:M:299:LYS:HG2	1.87	0.55
5:M:674:VAL:HG23	5:M:869:VAL:O	2.07	0.55
7:E:57:ASP:H	7:E:58:PRO:HD3	1.72	0.55
6:D:650:LEU:HD22	6:D:688:TRP:CH2	2.42	0.55
5:M:244:PRO:HD2	5:M:245:GLY:H	1.70	0.55
5:M:263:ASP:HB2	5:M:264:PRO:HD3	1.89	0.55
6:N:589:ALA:HB2	10:N:8196:HOH:O	2.05	0.55
4:L:44:LEU:HD23	4:L:48:ILE:HD11	1.88	0.55
5:C:1055:LEU:HD22	5:C:1066:ALA:HB2	1.89	0.55
4:L:19:GLU:HG3	4:L:201:THR:O	2.06	0.55
6:D:131:LYS:HG3	6:D:568:ARG:HG2	1.88	0.55
5:M:1030:GLN:NE2	6:N:628:ARG:HD3	2.22	0.55
5:C:850:ALA:HA	6:D:632:VAL:CG1	2.33	0.55
4:L:80:LEU:HG	6:N:844:ALA:HA	1.89	0.55
5:C:284:ARG:HG2	5:C:285:LEU:N	2.22	0.55
6:D:850:LEU:HD12	6:D:850:LEU:N	2.22	0.55
5:C:101:ILE:HD12	5:C:107:LEU:HD13	1.89	0.55
5:C:141:HIS:CB	5:C:418:LEU:HD23	2.36	0.55
4:B:175:ARG:O	6:D:851:LEU:CD2	2.54	0.55
6:D:1149:LEU:HG	6:D:1166:LEU:CD2	2.37	0.55
4:A:105:GLY:O	4:A:132:LEU:HB3	2.07	0.55
6:N:28:LYS:HE3	10:N:8501:HOH:O	2.07	0.55
5:M:1115:LEU:HD22	6:N:88:TYR:CD1	2.41	0.55
5:M:1097:LEU:HA	10:N:8039:HOH:O	2.07	0.55
5:M:1097:LEU:HD22	5:M:1097:LEU:N	2.10	0.55
6:D:729:HIS:HB3	6:D:732:VAL:HG22	1.87	0.55
5:C:403:SER:O	5:C:407:LYS:HG3	2.07	0.55
5:C:1088:LEU:HD23	5:C:1092:LEU:HD12	1.88	0.55
3:Z:3:DA:H4'	10:Z:2162:HOH:O	2.05	0.55
7:O:17:TYR:O	7:O:21:VAL:HG23	2.07	0.55
5:C:861:LEU:HA	5:C:974:LEU:HD12	1.89	0.55
6:D:478:LEU:HD22	6:D:1388:ARG:CZ	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:438:ILE:HD11	5:C:467:ILE:HD12	1.87	0.55
6:N:972:LEU:HG	6:N:976:GLN:HE21	1.72	0.55
5:C:906:PHE:CD1	6:D:1067:VAL:HG22	2.41	0.55
5:M:630:ARG:HH11	5:M:630:ARG:HG3	1.72	0.55
6:D:187:LYS:HG3	6:D:198:ARG:O	2.07	0.55
4:B:228:PRO:HD2	10:B:458:HOH:O	2.07	0.55
5:M:721:ARG:HD3	10:M:1680:HOH:O	2.06	0.55
6:N:47:GLU:HB3	6:N:51:GLY:O	2.07	0.55
6:D:1209:LEU:HD23	6:D:1210:SER:N	2.22	0.55
5:C:464:LEU:O	5:C:466:PHE:N	2.39	0.55
6:N:865:THR:N	10:N:8288:HOH:O	2.40	0.55
4:K:133:GLU:HB2	10:M:1481:HOH:O	2.06	0.55
6:N:1029:ARG:HG2	6:N:1029:ARG:HH11	1.71	0.55
5:C:611:ILE:HG13	5:C:625:LEU:HD21	1.88	0.55
6:N:443:VAL:HG13	6:N:445:ARG:HH22	1.71	0.55
6:N:1399:ASP:O	6:N:1403:LEU:HB2	2.06	0.55
4:L:198:ARG:HB2	4:L:200:TRP:CH2	2.42	0.55
6:D:963:TYR:CD2	6:D:1002:LYS:HD3	2.41	0.55
5:M:170:PRO:HD2	10:M:1670:HOH:O	2.06	0.55
5:M:545:ASN:HB3	5:M:583:LEU:HD22	1.88	0.55
6:D:1297:GLU:C	6:N:47:GLU:HB2	2.27	0.54
6:D:1319:VAL:HA	6:D:1323:GLN:HE22	1.72	0.54
5:M:1087:VAL:O	5:M:1091:GLU:HG3	2.06	0.54
6:N:519:VAL:HG13	6:N:544:TYR:CE1	2.41	0.54
4:B:39:PRO:O	4:B:43:ILE:HG12	2.07	0.54
6:N:127:LEU:HD23	6:N:152:LEU:CD1	2.37	0.54
5:C:683:ASN:HD22	5:C:689:VAL:HG23	1.72	0.54
5:C:535:SER:OG	5:C:537:LYS:HB2	2.07	0.54
5:C:139:GLN:HG2	5:C:418:LEU:HD22	1.89	0.54
6:N:581:LEU:CD2	6:N:581:LEU:H	2.18	0.54
6:N:640:HIS:HB2	10:O:1533:HOH:O	2.06	0.54
4:B:20:TYR:HD2	4:B:21:GLY:N	2.05	0.54
6:N:478:LEU:HD22	6:N:1388:ARG:HD3	1.89	0.54
5:M:264:PRO:HB3	5:M:289:THR:HB	1.88	0.54
5:C:576:ALA:HB1	10:C:1389:HOH:O	2.07	0.54
5:C:496:ILE:HA	5:C:531:PHE:O	2.07	0.54
6:D:161:LEU:CD2	6:D:452:ILE:HD13	2.38	0.54
6:D:1283:ILE:HB	6:D:1315:ASP:OD1	2.08	0.54
6:N:1429:LEU:HG	6:N:1441:GLN:CG	2.33	0.54
6:N:1481:VAL:CG1	7:O:21:VAL:HG21	2.38	0.54
4:L:94:LEU:CD1	4:L:119:ASP:HB2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1216:SER:HB3	7:O:16:LYS:H	1.72	0.54
4:A:57:TYR:CE2	4:A:161:ARG:HD2	2.42	0.54
6:N:1147:ARG:HB3	6:N:1188:VAL:CG2	2.37	0.54
4:K:182:GLU:HG2	10:K:2832:HOH:O	2.07	0.54
6:N:1415:VAL:HG23	10:N:8283:HOH:O	2.07	0.54
6:N:820:GLU:HA	6:N:825:ALA:O	2.08	0.54
5:M:694:LEU:HD21	5:M:868:ASP:HB3	1.89	0.54
5:C:412:ALA:HB1	5:C:419:THR:HG21	1.88	0.54
6:D:1297:GLU:H	6:N:48:ARG:CA	2.20	0.54
5:C:108:ILE:HD11	5:C:365:ASP:OD1	2.08	0.54
5:M:1101:THR:C	5:M:1102:LEU:HD12	2.27	0.54
4:K:97:VAL:HG23	10:K:3286:HOH:O	2.08	0.54
6:N:793:THR:OG1	6:N:905:PRO:HA	2.06	0.54
5:M:430:VAL:HG13	5:M:430:VAL:O	2.07	0.54
5:C:68:PHE:HE1	5:C:96:ALA:HB1	1.72	0.54
5:C:511:GLU:HB2	10:C:1475:HOH:O	2.08	0.54
6:N:513:ILE:HD12	6:N:513:ILE:O	2.08	0.54
5:C:145:GLY:CA	5:C:276:LYS:HD3	2.37	0.54
6:D:1094:LEU:HD22	6:D:1256:LEU:HD11	1.88	0.54
5:C:707:ARG:HG3	5:C:826:TYR:CE1	2.43	0.54
6:D:1233:GLY:HA2	6:D:1236:LEU:HG	1.89	0.54
4:L:8:ALA:HA	10:L:334:HOH:O	2.07	0.54
6:D:415:VAL:O	6:D:432:TYR:HA	2.07	0.54
6:N:450:TYR:HE2	10:N:8426:HOH:O	1.89	0.54
5:C:134:ARG:NH1	5:C:387:SER:HA	2.22	0.54
6:D:1441:GLN:CD	6:D:1442:ASN:H	2.10	0.54
4:K:26:GLU:CB	4:K:194:LYS:HG3	2.35	0.54
6:N:172:PRO:HG2	6:N:175:VAL:HG21	1.89	0.54
6:N:1264:GLU:O	6:N:1266:ARG:HG3	2.07	0.54
5:M:838:LYS:HD3	5:M:846:LYS:NZ	2.23	0.54
6:D:1377:LYS:HE2	6:D:1378:TYR:OH	2.07	0.54
5:C:1095:LEU:HD11	10:D:8172:HOH:O	2.07	0.54
6:D:198:ARG:HA	10:D:8549:HOH:O	2.07	0.54
5:C:393:GLN:NE2	5:C:406:HIS:CE1	2.76	0.54
5:M:5:ARG:HB3	5:M:902:ILE:HB	1.89	0.54
5:C:898:GLY:HA3	10:C:1529:HOH:O	2.06	0.54
6:N:458:ALA:HB2	6:N:575:GLN:OE1	2.08	0.54
6:D:206:ARG:HH21	6:D:394:LEU:HD13	1.72	0.54
6:D:412:GLY:HA2	6:D:434:ARG:HD3	1.89	0.54
5:M:304:LEU:CD2	5:M:305:PRO:HD3	2.35	0.54
5:C:557:ARG:HH21	5:C:879:ARG:HH21	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:86:LYS:HD3	5:M:813:VAL:HA	1.88	0.54
6:N:1275:SER:HB3	6:N:1325:LEU:CD2	2.37	0.54
6:N:415:VAL:O	6:N:432:TYR:HA	2.08	0.54
4:K:36:LEU:O	4:K:39:PRO:HD2	2.08	0.54
7:O:51:LEU:HG	7:O:53:GLY:H	1.73	0.54
6:N:1393:GLN:HB2	6:N:1398:TRP:HE1	1.72	0.54
6:D:206:ARG:NH2	6:D:394:LEU:HD13	2.23	0.54
6:D:433:GLY:HA2	6:D:450:TYR:N	2.22	0.54
2:Y:6:U:O5'	2:Y:6:U:H6	1.90	0.54
10:C:1713:HOH:O	6:D:1471:LEU:HD13	2.06	0.54
6:N:1292:VAL:HB	10:N:8059:HOH:O	2.07	0.54
5:C:139:GLN:NE2	5:C:415:PRO:HD2	2.23	0.54
5:C:798:GLY:H	5:C:827:VAL:CG1	2.20	0.54
6:D:890:VAL:HG11	6:D:922:LEU:HD12	1.89	0.54
6:N:984:THR:HG22	6:N:987:GLU:CG	2.37	0.54
5:C:690:ILE:HG23	5:C:852:ILE:HG23	1.90	0.54
5:C:1038:TRP:HA	5:C:1041:GLU:HB2	1.88	0.54
6:D:984:THR:HG22	6:D:987:GLU:CG	2.36	0.54
3:I:8:DA:H1'	3:I:9:DG:H5'	1.88	0.54
6:N:665:GLY:HA2	10:N:8047:HOH:O	2.06	0.54
6:D:794:GLN:NE2	6:D:905:PRO:HG2	2.23	0.54
6:D:465:LEU:HG	10:D:8084:HOH:O	2.08	0.54
5:C:1036:GLU:HA	6:D:707:THR:HG21	1.88	0.54
6:D:1296:SER:C	6:D:1298:GLY:H	2.09	0.54
6:D:1281:VAL:HG21	6:D:1313:VAL:HG11	1.90	0.54
6:N:90:MET:CE	6:N:521:PRO:HD3	2.38	0.54
6:N:544:TYR:O	6:N:548:ILE:HG12	2.07	0.54
6:N:59:ALA:HB3	6:N:76:CYS:SG	2.48	0.54
7:E:36:LYS:NZ	7:E:45:ARG:NH2	2.56	0.54
7:E:17:TYR:O	7:E:21:VAL:HG23	2.07	0.54
5:M:557:ARG:HH21	5:M:879:ARG:HE	1.54	0.54
6:N:890:VAL:HG11	6:N:922:LEU:HD12	1.90	0.54
5:M:603:VAL:HG23	5:M:647:GLN:H	1.73	0.54
6:N:993:LEU:HA	10:N:8218:HOH:O	2.06	0.54
6:N:192:ALA:HB1	6:N:193:PRO:HD2	1.90	0.54
5:M:200:LEU:HD21	10:M:1188:HOH:O	2.08	0.54
6:N:443:VAL:CG1	6:N:445:ARG:HH22	2.21	0.54
6:N:584:ASN:ND2	6:N:590:PRO:HD2	2.23	0.54
6:N:154:THR:HG23	6:N:157:GLU:H	1.72	0.54
4:K:25:LEU:HD23	4:K:28:LEU:HD11	1.90	0.54
5:C:585:GLU:HG2	5:C:665:PHE:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:776:SER:HA	5:M:780:GLU:HB3	1.90	0.54
6:D:467:GLU:HB2	10:D:8222:HOH:O	2.08	0.54
6:D:132:TYR:N	6:D:456:MET:SD	2.81	0.54
2:H:14:G:C2'	2:H:15:C:H5'	2.38	0.54
2:H:7:G:H2'	2:H:7:G:N3	2.23	0.54
6:D:1274:ILE:HD12	6:D:1274:ILE:O	2.08	0.54
5:M:1083:GLU:OE1	5:M:1086:ARG:HD2	2.07	0.54
2:Y:7:G:C8	2:Y:7:G:C5'	2.90	0.54
6:N:151:GLN:HG2	10:N:8618:HOH:O	2.07	0.54
7:O:25:LYS:HA	7:O:28:GLN:NE2	2.23	0.54
5:C:851:LYS:HG2	5:C:853:LEU:HD12	1.88	0.54
6:N:864:VAL:HG23	6:N:877:PRO:HD3	1.89	0.54
5:C:140:ILE:HD12	5:C:140:ILE:O	2.08	0.54
4:A:150:TYR:CE2	4:A:152:PRO:HG3	2.42	0.54
6:N:426:LYS:NZ	6:N:427:VAL:HG23	2.23	0.54
5:C:626:ARG:N	5:C:639:GLN:HE21	2.02	0.54
6:N:800:LYS:NZ	6:N:804:LEU:HD22	2.23	0.54
6:D:890:VAL:HG11	6:D:922:LEU:CD1	2.38	0.54
5:M:976:ASP:HB3	5:M:979:THR:HG22	1.89	0.54
6:N:1161:GLU:OE2	6:N:1164:ARG:HD2	2.08	0.54
6:N:1156:LEU:HD12	6:N:1176:LYS:HE3	1.89	0.54
6:N:71:LYS:HA	10:N:8143:HOH:O	2.06	0.54
5:C:262:ALA:HB3	10:C:1196:HOH:O	2.07	0.54
6:N:675:ARG:HA	6:N:678:GLU:CD	2.27	0.54
6:D:703:ASN:HD22	6:D:704:ARG:H	1.55	0.54
5:M:157:ARG:HD3	5:M:314:THR:CG2	2.38	0.54
5:C:196:LEU:HD22	5:C:303:PHE:CE2	2.43	0.54
6:N:1209:LEU:HD13	6:N:1216:SER:OG	2.07	0.54
6:N:109:PRO:HB3	6:N:494:LYS:NZ	2.23	0.54
5:M:612:VAL:HA	5:M:621:VAL:O	2.08	0.54
6:D:996:TRP:HA	6:D:999:THR:CG2	2.37	0.54
6:N:971:LEU:HA	6:N:974:ILE:HD12	1.90	0.54
5:M:199:VAL:HG13	10:M:1362:HOH:O	2.07	0.54
5:M:274:ARG:CG	5:M:285:LEU:HD13	2.38	0.54
5:M:564:MET:SD	5:M:840:ALA:HB3	2.48	0.54
6:N:553:ARG:O	6:N:557:LEU:HG	2.08	0.54
5:M:585:GLU:HG2	5:M:665:PHE:CE2	2.43	0.54
6:D:132:TYR:O	6:D:456:MET:HB2	2.08	0.54
6:N:619:LEU:O	6:N:620:GLY:O	2.25	0.54
5:C:998:TYR:HE2	5:C:1000:MET:HG3	1.72	0.54
6:D:81:THR:HG22	6:D:82:LYS:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:192:PRO:HD2	5:C:195:LEU:HD23	1.89	0.54
5:C:1020:PRO:HD2	6:D:622:ARG:O	2.08	0.54
5:C:265:ARG:HB3	5:C:267:TYR:CD2	2.43	0.54
5:C:52:PHE:HE1	5:C:66:LEU:HG	1.73	0.54
6:D:1364:HIS:CE1	6:D:1366:LYS:HG3	2.43	0.54
5:M:757:GLY:HA2	10:M:1317:HOH:O	2.07	0.54
6:D:616:GLN:HG3	10:D:8067:HOH:O	2.07	0.53
2:Y:15:C:O2'	2:Y:16:G:H5'	2.08	0.53
5:M:861:LEU:HA	5:M:974:LEU:HD12	1.89	0.53
5:M:176:VAL:C	5:M:178:PRO:HD3	2.28	0.53
7:E:27:ALA:CB	7:E:61:VAL:CG1	2.84	0.53
6:D:791:TYR:HB3	10:D:8083:HOH:O	2.06	0.53
5:C:428:ARG:HH12	5:C:449:ILE:N	2.01	0.53
5:C:86:LYS:CB	5:C:813:VAL:HG23	2.36	0.53
6:D:843:PHE:HA	10:D:8384:HOH:O	2.08	0.53
6:N:1381:VAL:HB	6:N:1389:LEU:O	2.08	0.53
4:B:131:THR:HG21	10:B:420:HOH:O	2.08	0.53
6:N:1335:LEU:HD22	10:N:8088:HOH:O	2.08	0.53
4:B:169:ALA:HB1	4:B:171:PHE:CE2	2.43	0.53
6:D:1293:PHE:CG	6:N:75:ARG:HB2	2.43	0.53
6:N:198:ARG:HD3	10:N:8115:HOH:O	2.08	0.53
5:M:140:ILE:HD13	5:M:331:ARG:HE	1.72	0.53
6:N:1133:ARG:HD2	10:N:8046:HOH:O	2.07	0.53
5:M:36:PRO:HB2	5:M:70:GLU:HG2	1.90	0.53
6:N:924:MET:CE	6:N:1211:MET:HG3	2.34	0.53
5:C:428:ARG:NH1	5:C:449:ILE:HG22	2.23	0.53
6:N:850:LEU:N	6:N:850:LEU:HD12	2.23	0.53
5:C:724:ARG:O	5:C:726:ILE:HD12	2.09	0.53
5:C:28:ARG:HG3	5:C:40:GLU:OE1	2.07	0.53
6:D:1135:ARG:HB3	6:D:1140:ILE:HG13	1.89	0.53
5:C:516:ARG:HD2	5:C:521:PRO:HA	1.89	0.53
7:E:54:LEU:O	7:E:54:LEU:HD23	2.08	0.53
4:L:206:THR:HG23	4:L:209:GLU:H	1.73	0.53
5:C:673:LEU:HD22	5:C:867:VAL:HG12	1.90	0.53
5:M:28:ARG:HG2	5:M:42:VAL:HG21	1.90	0.53
6:D:721:VAL:HG12	10:D:8398:HOH:O	2.08	0.53
4:L:20:TYR:HD2	4:L:21:GLY:H	1.57	0.53
6:D:972:LEU:C	6:D:976:GLN:HE21	2.11	0.53
5:C:338:GLU:O	5:C:341:THR:HG22	2.09	0.53
6:N:754:PHE:CE2	6:N:1476:THR:HG21	2.43	0.53
5:M:365:ASP:O	5:M:367:LEU:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:281:LEU:CD1	5:C:306:THR:HA	2.35	0.53
6:N:206:ARG:HH21	6:N:394:LEU:HD13	1.73	0.53
4:A:128:HIS:HE1	10:A:406:HOH:O	1.92	0.53
6:D:462:GLN:O	6:D:466:LYS:HG3	2.07	0.53
5:M:612:VAL:HG22	5:M:622:GLU:CA	2.37	0.53
4:A:189:ARG:HG3	4:A:191:ASP:OD1	2.07	0.53
6:N:684:LYS:CB	6:N:686:GLU:HG3	2.37	0.53
6:N:1326:THR:HG21	10:N:8570:HOH:O	2.06	0.53
6:N:480:GLU:O	6:N:484:PRO:HD2	2.08	0.53
6:D:23:TYR:HA	10:D:8299:HOH:O	2.07	0.53
6:N:914:LEU:HD23	6:N:914:LEU:O	2.08	0.53
6:D:808:THR:OG1	6:D:809:PRO:HD3	2.08	0.53
5:M:616:GLU:OE1	5:M:616:GLU:HA	2.06	0.53
6:D:1383:ASP:HB2	6:D:1416:ALA:HB3	1.91	0.53
6:D:1393:GLN:HB2	6:D:1398:TRP:NE1	2.24	0.53
2:H:2:A:C8	2:H:2:A:H3'	2.43	0.53
6:D:1274:ILE:HG13	6:D:1334:GLN:HE21	1.72	0.53
5:M:953:VAL:HG22	5:M:966:LEU:HD13	1.90	0.53
5:M:1030:GLN:HB2	6:N:626:SER:CB	2.38	0.53
5:M:404:LEU:HD22	5:M:591:SER:HB3	1.91	0.53
5:C:694:LEU:HB3	10:C:1628:HOH:O	2.08	0.53
5:C:897:LEU:HB3	5:C:899:GLN:HE21	1.73	0.53
7:E:68:LEU:CD1	7:E:73:LEU:HD22	2.38	0.53
5:M:816:LYS:HD3	10:N:8586:HOH:O	2.08	0.53
6:N:469:ASP:OD1	6:N:471:GLU:HG2	2.09	0.53
6:N:1122:LEU:O	6:N:1134:LEU:HD12	2.08	0.53
5:M:838:LYS:HG3	5:M:997:LEU:HB2	1.90	0.53
4:K:179:PHE:HB2	4:K:195:LEU:HD11	1.90	0.53
6:N:988:ARG:NH1	6:N:988:ARG:HG3	2.22	0.53
4:A:91:ASN:OD1	4:A:92:PRO:HD2	2.09	0.53
5:M:1:MET:HE3	10:M:1455:HOH:O	2.08	0.53
6:N:54:LYS:HG2	6:N:57:GLU:OE1	2.09	0.53
6:D:785:ILE:HG22	6:D:789:LEU:HD11	1.91	0.53
6:D:911:LEU:HB3	10:D:8487:HOH:O	2.08	0.53
5:M:139:GLN:HE22	5:M:415:PRO:CG	2.22	0.53
4:L:94:LEU:HD22	4:L:97:VAL:CG2	2.38	0.53
5:C:328:LEU:HD21	5:C:434:HIS:HD2	1.74	0.53
5:M:905:ILE:HG22	5:M:906:PHE:N	2.24	0.53
5:C:198:ARG:NH1	5:C:204:GLN:HG2	2.23	0.53
5:C:212:GLY:HA3	5:C:218:VAL:HG21	1.90	0.53
5:M:897:LEU:HD21	5:M:921:ALA:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:762:LYS:HZ1	5:M:786:LYS:HA	1.73	0.53
6:D:1263:PHE:HE2	6:D:1371:VAL:HG11	1.73	0.53
6:D:125:GLN:HE22	6:D:587:ARG:NE	2.07	0.53
6:D:1180:ALA:HA	10:D:8255:HOH:O	2.07	0.53
4:B:99:LEU:HD21	4:B:122:ILE:HD11	1.91	0.53
6:D:184:GLU:OE1	6:D:202:VAL:HG22	2.09	0.53
5:C:313:LEU:HD13	5:C:321:GLU:O	2.08	0.53
5:C:275:TYR:OH	5:C:489:THR:HG21	2.07	0.53
5:M:846:LYS:HB3	10:N:8191:HOH:O	2.09	0.53
4:L:36:LEU:O	4:L:39:PRO:HD2	2.09	0.53
6:N:988:ARG:HD2	6:N:989:TYR:N	2.23	0.53
6:N:17:LYS:HG2	6:N:21:TRP:NE1	2.23	0.53
4:K:92:PRO:HB3	10:K:2883:HOH:O	2.09	0.53
6:D:164:GLY:HA3	6:D:447:VAL:CG1	2.38	0.53
6:D:181:ASP:C	6:D:441:ARG:HD3	2.29	0.53
6:D:434:ARG:N	6:D:449:SER:O	2.42	0.53
6:D:704:ARG:HH12	6:D:743:ASP:CB	2.22	0.53
6:D:1276:GLU:HB3	10:D:8611:HOH:O	2.07	0.53
6:D:1295:GLU:HB2	6:N:76:CYS:HB2	1.91	0.53
2:Y:7:G:N2	5:M:1021:LEU:HB2	2.22	0.53
6:D:789:LEU:HD13	6:D:911:LEU:HD21	1.91	0.53
5:M:19:THR:HG21	5:M:124:ASP:O	2.08	0.53
6:D:1104:GLU:O	6:D:1106:VAL:HG23	2.08	0.53
4:A:14:ARG:NH2	4:A:24:VAL:HG23	2.15	0.53
5:C:557:ARG:NH2	5:C:879:ARG:HH21	2.07	0.53
6:D:478:LEU:HD13	6:D:1388:ARG:NH1	2.23	0.53
4:B:24:VAL:HG13	10:B:338:HOH:O	2.08	0.53
4:A:66:SER:O	4:A:75:VAL:HG23	2.08	0.53
5:M:199:VAL:HG21	5:M:238:LEU:HD12	1.91	0.53
6:D:1112:CYS:HB2	6:D:1195:GLN:CG	2.39	0.53
7:E:54:LEU:HG	7:E:58:PRO:CB	2.38	0.53
6:N:400:VAL:HG22	6:N:443:VAL:CG2	2.39	0.53
6:D:1206:GLY:HA3	6:D:1366:LYS:NZ	2.23	0.53
4:A:56:VAL:HG22	4:A:142:VAL:HG12	1.89	0.53
5:M:22:GLN:OE1	5:M:136:ILE:O	2.27	0.53
5:C:380:ALA:O	5:C:384:GLU:HB2	2.09	0.53
5:M:6:PHE:CE1	5:M:901:TYR:HB3	2.43	0.53
5:C:729:LEU:HD13	6:D:675:ARG:HH11	1.72	0.53
5:M:1053:LEU:CD1	6:N:1466:VAL:HG13	2.33	0.53
5:M:1008:ARG:HB2	5:M:1027:PHE:HB2	1.89	0.53
6:D:729:HIS:CE1	6:D:731:LEU:H	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:17:DC:H2''	1:G:18:DG:C5'	2.32	0.53
5:M:89:THR:HG22	10:M:1326:HOH:O	2.07	0.53
5:M:407:LYS:HG2	10:M:1613:HOH:O	2.08	0.53
5:M:536:PRO:HB3	5:M:906:PHE:HD1	1.73	0.53
6:N:1413:THR:HG22	10:N:8550:HOH:O	2.07	0.53
6:D:446:VAL:HB	10:D:8134:HOH:O	2.09	0.53
5:C:52:PHE:HZ	5:C:98:LEU:HB3	1.72	0.53
5:C:54:ILE:HG22	5:C:66:LEU:HB3	1.91	0.53
6:D:876:SER:N	10:D:8684:HOH:O	2.42	0.53
6:N:1031:ASN:HB3	6:N:1034:GLN:NE2	2.24	0.53
4:A:48:ILE:HD13	4:A:210:ALA:HB1	1.90	0.53
4:A:9:PRO:HB3	4:A:25:LEU:HG	1.91	0.53
5:M:260:LEU:HB2	5:M:291:ALA:HB1	1.91	0.53
5:M:170:PRO:HG2	5:M:258:TYR:CE2	2.43	0.53
5:M:585:GLU:HG2	5:M:665:PHE:CD2	2.43	0.53
6:D:152:LEU:HD23	6:D:152:LEU:H	1.74	0.53
6:D:421:LEU:HB2	6:D:427:VAL:HG12	1.91	0.53
6:D:619:LEU:HD12	6:D:621:LYS:CE	2.39	0.53
6:N:541:ASN:O	6:N:545:ARG:HG3	2.09	0.53
6:N:78:VAL:HG12	6:N:80:VAL:CG2	2.38	0.53
5:M:151:ASP:HB3	10:M:1518:HOH:O	2.08	0.53
5:M:129:ILE:HG13	5:M:386:PHE:HB3	1.91	0.53
5:M:88:LEU:HD12	5:M:89:THR:H	1.74	0.53
5:M:52:PHE:CD2	5:M:68:PHE:HB2	2.43	0.53
5:C:1102:LEU:N	6:D:7:LYS:O	2.39	0.53
5:C:137:VAL:HG22	5:C:391:LEU:O	2.09	0.53
5:C:433:THR:CG2	5:C:488:ALA:HB1	2.39	0.53
5:C:756:VAL:HB	5:C:790:LEU:HB3	1.91	0.53
4:K:40:LEU:HB2	10:K:1505:HOH:O	2.08	0.53
6:N:1196:THR:HG22	10:N:8280:HOH:O	2.08	0.53
5:C:572:ILE:HG13	5:C:573:ARG:H	1.73	0.53
5:M:683:ASN:HB2	5:M:872:ASN:HB2	1.91	0.53
5:C:218:VAL:HG22	5:C:221:LEU:CD2	2.38	0.53
6:N:1369:GLU:HA	6:N:1372:VAL:HG12	1.91	0.53
5:C:643:VAL:HG13	5:C:647:GLN:CD	2.30	0.53
5:M:1071:ILE:HD12	6:N:670:VAL:HG11	1.90	0.53
6:N:1406:ARG:HD3	6:N:1407:LEU:HD12	1.89	0.53
4:L:170:VAL:O	4:L:170:VAL:HG23	2.09	0.53
4:L:52:ALA:CB	4:L:170:VAL:H	2.22	0.53
7:O:53:GLY:HA2	10:O:1039:HOH:O	2.08	0.53
5:M:6:PHE:HE1	5:M:901:TYR:HB3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:145:VAL:CG2	6:D:146:PRO:HD2	2.37	0.53
6:D:52:PRO:HD2	6:D:85:VAL:CG2	2.39	0.53
5:C:757:GLY:HA2	5:C:789:SER:CB	2.36	0.53
6:N:1066:THR:HG22	6:N:1069:GLU:CD	2.30	0.53
4:K:26:GLU:HB3	4:K:194:LYS:HG3	1.91	0.53
6:N:1044:LEU:HD11	10:N:8218:HOH:O	2.09	0.53
6:D:700:VAL:HG12	6:D:749:VAL:HG13	1.89	0.53
5:C:759:THR:HB	5:C:785:VAL:CG2	2.39	0.53
5:M:711:GLU:OE2	5:M:822:VAL:HG12	2.08	0.53
5:C:681:GLY:HA3	6:D:635:PRO:HB3	1.90	0.53
6:N:1393:GLN:HB2	6:N:1398:TRP:NE1	2.23	0.53
6:D:1071:PHE:O	6:D:1074:SER:HB3	2.08	0.53
6:D:1295:GLU:CD	6:N:77:GLY:H	2.12	0.52
5:M:1016:ILE:HG21	6:N:526:PRO:HG3	1.90	0.52
6:D:1299:PHE:CA	6:N:59:ALA:HB1	2.32	0.52
6:N:454:ALA:O	6:N:455:ARG:HG3	2.08	0.52
5:M:36:PRO:HB2	10:M:1410:HOH:O	2.08	0.52
6:D:1433:SER:HB2	6:D:1457:ASP:OD2	2.09	0.52
4:K:191:ASP:HA	10:K:2768:HOH:O	2.08	0.52
6:N:947:ILE:HD12	6:N:947:ILE:O	2.10	0.52
5:M:298:PHE:HB3	10:M:1206:HOH:O	2.09	0.52
5:M:191:PHE:CD2	5:M:195:LEU:HD23	2.44	0.52
4:K:24:VAL:HG22	4:K:196:THR:HG22	1.90	0.52
6:N:820:GLU:HG2	6:N:825:ALA:O	2.09	0.52
4:L:170:VAL:HG11	6:N:848:GLU:OE1	2.09	0.52
5:C:510:ALA:HB3	5:C:513:VAL:HG23	1.91	0.52
5:C:338:GLU:HA	5:C:341:THR:HG22	1.90	0.52
6:D:1405:GLU:O	6:D:1405:GLU:HG3	2.09	0.52
6:N:42:ASP:O	6:N:43:GLY:O	2.27	0.52
5:M:946:ARG:HH21	6:N:861:GLN:HE22	1.54	0.52
4:L:29:GLU:N	10:L:428:HOH:O	2.42	0.52
5:M:12:VAL:HG13	5:M:13:ILE:HG12	1.91	0.52
5:M:173:ASP:HB2	5:M:185:LYS:CE	2.39	0.52
6:N:1128:VAL:HB	6:N:1133:ARG:HH21	1.73	0.52
5:C:872:ASN:HD21	5:C:874:LEU:HB2	1.74	0.52
6:D:489:ARG:HG3	10:D:8168:HOH:O	2.08	0.52
5:C:439:CYS:SG	5:C:541:SER:HB3	2.49	0.52
5:C:958:THR:HG23	5:C:961:GLU:CG	2.40	0.52
4:B:59:GLU:HB2	4:B:137:ARG:NH1	2.24	0.52
6:D:477:LEU:HD22	6:D:492:ALA:HB1	1.91	0.52
4:K:128:HIS:CE1	4:K:131:THR:HG23	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:44:ILE:HD11	5:C:340:MET:HE1	1.91	0.52
5:C:45:GLN:HB2	5:C:71:TYR:CZ	2.45	0.52
6:D:133:ILE:HG23	6:D:455:ARG:C	2.30	0.52
6:D:165:LYS:HG2	6:D:199:LEU:HD13	1.90	0.52
2:H:2:A:OP2	6:D:671:LYS:CE	2.56	0.52
4:A:208:LEU:HD22	10:A:414:HOH:O	2.09	0.52
6:D:853:VAL:HG22	6:D:858:VAL:HG23	1.91	0.52
5:M:906:PHE:CE1	6:N:1067:VAL:HA	2.45	0.52
5:C:597:ALA:HB2	5:C:655:LEU:HD21	1.92	0.52
6:D:764:LEU:HD12	6:D:765:SER:N	2.24	0.52
6:N:677:LEU:HD21	6:N:687:VAL:HG11	1.91	0.52
5:M:726:ILE:HD13	5:M:734:LEU:HD11	1.91	0.52
4:B:111:ALA:HB3	4:B:124:ASN:O	2.09	0.52
6:N:576:GLU:HA	6:N:579:ASP:OD2	2.10	0.52
6:N:1468:LEU:HD23	6:N:1468:LEU:O	2.10	0.52
6:N:502:PHE:CZ	6:N:1452:ILE:HG23	2.45	0.52
5:M:181:VAL:HG12	5:M:182:VAL:N	2.25	0.52
5:C:202:TYR:HD1	10:C:1763:HOH:O	1.92	0.52
6:D:1128:VAL:O	6:D:1129:THR:C	2.47	0.52
4:B:123:MET:C	4:B:125:PRO:HD3	2.30	0.52
5:M:63:GLY:HA3	5:M:103:LYS:HG3	1.92	0.52
4:L:20:TYR:HD2	4:L:21:GLY:N	2.08	0.52
6:N:1125:PRO:HB2	10:N:8238:HOH:O	2.08	0.52
5:M:986:PRO:HD2	10:M:1227:HOH:O	2.10	0.52
6:D:1107:VAL:HA	6:D:1200:VAL:O	2.10	0.52
5:C:167:LYS:HA	10:C:1508:HOH:O	2.09	0.52
6:D:502:PHE:CZ	6:D:509:PRO:HB3	2.45	0.52
5:C:1034:GLU:HA	5:C:1037:VAL:HG23	1.92	0.52
2:H:7:G:C5'	2:H:7:G:C8	2.93	0.52
6:N:28:LYS:CB	6:N:41:ARG:HD2	2.39	0.52
6:D:1298:GLY:HA3	6:N:47:GLU:OE1	2.08	0.52
6:N:134:VAL:CG1	6:N:152:LEU:HB3	2.40	0.52
5:C:129:ILE:HG21	5:C:387:SER:HB3	1.92	0.52
6:D:28:LYS:CG	6:D:29:PRO:HD2	2.39	0.52
5:C:722:ILE:CD1	5:C:823:VAL:HG21	2.40	0.52
7:O:73:LEU:HD12	7:O:73:LEU:N	2.24	0.52
5:C:965:GLU:HA	5:C:968:LEU:HD12	1.91	0.52
5:C:548:PRO:HG2	5:C:842:ARG:NH2	2.25	0.52
4:B:138:LEU:HD23	10:B:388:HOH:O	2.08	0.52
5:C:498:GLN:O	5:C:501:THR:HG23	2.10	0.52
6:D:118:LEU:HD22	6:D:123:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:137:PRO:HD2	6:D:453:ASP:OD1	2.08	0.52
6:N:85:VAL:HB	6:N:89:ARG:NH1	2.25	0.52
5:M:946:ARG:NH2	6:N:861:GLN:NE2	2.56	0.52
4:B:25:LEU:O	4:B:28:LEU:HD21	2.10	0.52
6:N:695:ILE:CD1	6:N:718:PRO:HB2	2.32	0.52
5:M:178:PRO:HA	10:M:1334:HOH:O	2.09	0.52
6:D:615:ARG:HH22	6:D:1096:ARG:NE	2.07	0.52
5:C:654:LEU:CD2	5:C:654:LEU:H	2.18	0.52
5:M:106:GLY:O	5:M:107:LEU:HD23	2.09	0.52
6:D:1261:GLU:OE1	6:D:1268:PRO:HA	2.09	0.52
5:M:399:ASN:O	5:M:402:SER:HB3	2.09	0.52
5:C:976:ASP:CB	5:C:979:THR:HG22	2.39	0.52
6:D:645:PRO:HG3	6:D:725:SER:O	2.09	0.52
6:N:482:LYS:HE2	10:N:8500:HOH:O	2.09	0.52
5:M:236:ILE:N	5:M:236:ILE:HD12	2.24	0.52
6:N:157:GLU:HA	6:N:160:GLU:CD	2.30	0.52
6:D:972:LEU:O	6:D:976:GLN:HG3	2.09	0.52
5:M:693:GLU:OE2	5:M:855:VAL:HG21	2.10	0.52
6:N:862:ASP:O	6:N:876:SER:HB2	2.09	0.52
5:M:253:ALA:O	5:M:256:TYR:HB2	2.10	0.52
5:M:922:PHE:HZ	5:M:963:LEU:HB3	1.74	0.52
6:D:152:LEU:CD2	6:D:152:LEU:H	2.23	0.52
6:D:164:GLY:HA3	6:D:447:VAL:HB	1.86	0.52
6:N:1096:ARG:O	6:N:1100:ASP:HB2	2.09	0.52
6:N:1106:VAL:HG11	6:N:1474:ALA:CB	2.40	0.52
4:B:27:PRO:HG2	4:B:186:LEU:CD1	2.39	0.52
4:A:39:PRO:HG3	4:B:39:PRO:HG3	1.90	0.52
6:D:782:SER:H	6:D:785:ILE:HD13	1.75	0.52
1:G:12:DG:H2"	1:G:13:DT:O5'	2.10	0.52
6:N:1129:THR:HG23	6:N:1130:ARG:N	2.16	0.52
5:C:1101:THR:C	5:C:1102:LEU:HD12	2.30	0.52
4:B:44:LEU:HD23	4:B:214:ALA:HB2	1.90	0.52
5:C:726:ILE:HD13	5:C:734:LEU:HD11	1.92	0.52
5:M:86:LYS:HE2	5:M:813:VAL:HB	1.90	0.52
5:M:191:PHE:HD2	5:M:195:LEU:HD23	1.74	0.52
6:N:894:LYS:HG3	10:N:8392:HOH:O	2.08	0.52
5:M:712:ALA:HB3	5:M:821:GLU:HG2	1.92	0.52
6:D:154:THR:HA	10:D:8475:HOH:O	2.09	0.52
6:D:1211:MET:HG2	6:D:1212:ALA:H	1.75	0.52
4:L:80:LEU:HD12	4:L:83:LYS:NZ	2.24	0.52
5:C:302:VAL:C	5:C:305:PRO:HD2	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:213:GLN:O	4:K:217:ILE:HG13	2.10	0.52
5:C:181:VAL:HG12	5:C:182:VAL:N	2.25	0.52
5:C:8:ARG:HH21	5:C:10:ARG:NH2	2.07	0.52
6:D:1362:LYS:HG2	10:D:8046:HOH:O	2.10	0.52
6:N:1491:THR:HG23	10:O:2187:HOH:O	2.10	0.52
6:D:1205:TYR:HD2	6:D:1215:VAL:HG21	1.73	0.52
6:N:995:LEU:HD23	10:N:8172:HOH:O	2.09	0.52
6:D:1033:GLN:HE21	6:D:1036:ARG:NH1	2.08	0.52
5:M:236:ILE:HG12	10:M:1143:HOH:O	2.08	0.52
5:C:815:LEU:HA	10:C:1766:HOH:O	2.10	0.52
5:C:442:GLU:OE2	5:C:543:ASN:HB3	2.10	0.52
6:D:1041:LEU:HD23	6:D:1041:LEU:O	2.09	0.52
6:N:773:ALA:HB3	10:N:8093:HOH:O	2.09	0.52
5:M:1092:LEU:HD13	5:M:1099:VAL:HG21	1.91	0.52
5:C:249:LYS:HD3	10:C:1240:HOH:O	2.09	0.52
6:D:204:LEU:HD21	6:D:396:VAL:HG22	1.91	0.52
5:M:1034:GLU:CB	6:N:619:LEU:HD22	2.31	0.52
6:D:770:LEU:HD13	10:D:8089:HOH:O	2.10	0.52
5:M:418:LEU:N	5:M:418:LEU:CD1	2.73	0.52
5:M:7:GLY:H	5:M:904:PRO:HD2	1.74	0.52
6:D:610:LYS:O	6:D:615:ARG:HG2	2.10	0.52
6:D:9:ARG:HH12	6:D:11:ALA:HB2	1.74	0.52
5:M:479:VAL:CG2	5:M:506:ASN:HA	2.39	0.52
5:C:443:THR:HG21	6:D:1078:ARG:NE	2.24	0.52
5:C:1013:TYR:CZ	5:C:1063:ARG:HD2	2.45	0.52
6:D:796:ARG:NE	6:D:828:LYS:HZ3	2.08	0.52
6:D:765:SER:OG	6:D:766:ALA:N	2.41	0.52
6:D:657:LEU:HD13	6:D:691:LEU:CD1	2.38	0.52
5:M:650:ARG:CG	5:M:653:ASP:HB2	2.40	0.52
5:C:15:LEU:H	5:C:586:ARG:NH2	2.07	0.52
6:N:106:LYS:HE2	6:N:125:GLN:OE1	2.10	0.52
6:D:1290:LEU:HD13	10:D:8027:HOH:O	2.08	0.52
5:C:94:LEU:C	5:C:94:LEU:HD12	2.30	0.52
6:D:949:ILE:HD12	6:D:1020:LEU:HD13	1.92	0.52
1:X:2:DC:H2"	1:X:3:DC:C6	2.44	0.52
6:D:707:THR:HA	10:D:8352:HOH:O	2.10	0.52
4:B:89:PHE:HZ	4:B:144:VAL:HG12	1.74	0.52
5:M:438:ILE:HD11	5:M:467:ILE:HD12	1.91	0.52
5:C:479:VAL:CG2	5:C:506:ASN:HA	2.40	0.52
5:M:91:GLN:NE2	5:M:383:ARG:NH2	2.56	0.52
5:C:1088:LEU:HA	5:C:1091:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:557:ARG:HH21	5:C:879:ARG:NH2	2.07	0.52
6:D:19:ARG:HG3	6:D:19:ARG:NH1	2.24	0.52
6:N:206:ARG:CG	6:N:394:LEU:HD22	2.36	0.52
5:M:536:PRO:HB3	5:M:906:PHE:CD1	2.45	0.52
6:N:1056:PRO:HA	10:N:8270:HOH:O	2.10	0.52
5:C:897:LEU:HD23	5:C:924:VAL:HG21	1.90	0.52
4:A:188:GLN:HG3	4:A:189:ARG:N	2.25	0.52
6:N:178:LEU:HG	6:N:192:ALA:HA	1.91	0.52
6:N:731:LEU:HA	10:N:8739:HOH:O	2.09	0.52
6:D:963:TYR:HD2	6:D:1002:LYS:HD3	1.74	0.52
6:D:196:VAL:HG11	10:D:8574:HOH:O	2.09	0.52
7:E:47:LYS:HE2	10:E:135:HOH:O	2.10	0.52
2:H:15:C:O2'	2:H:16:G:H5'	2.10	0.51
2:Y:7:G:H22	5:M:1014:SER:HA	1.73	0.51
6:N:134:VAL:HG12	6:N:152:LEU:HB3	1.91	0.51
5:C:108:ILE:HB	5:C:368:THR:OG1	2.11	0.51
6:N:36:THR:HB	6:N:38:LYS:HG3	1.92	0.51
5:M:19:THR:O	5:M:23:VAL:HG23	2.10	0.51
3:Z:8:DA:OP1	6:N:1426:LYS:HD2	2.09	0.51
5:C:557:ARG:HH21	5:C:879:ARG:CZ	2.23	0.51
5:C:874:LEU:HD11	6:D:787:LEU:HD23	1.91	0.51
5:M:503:LEU:HD23	5:M:507:ARG:O	2.10	0.51
5:M:265:ARG:HB3	5:M:267:TYR:CD2	2.44	0.51
5:C:546:LEU:HB3	10:C:1329:HOH:O	2.10	0.51
4:A:165:ILE:HG13	4:A:165:ILE:O	2.09	0.51
6:N:431:VAL:HG12	6:N:432:TYR:N	2.25	0.51
6:N:1101:VAL:HG11	6:N:1427:SER:HB3	1.90	0.51
4:L:71:VAL:HG22	4:L:132:LEU:HD11	1.91	0.51
4:B:128:HIS:CE1	4:B:131:THR:HG23	2.45	0.51
6:N:597:ASP:HA	10:N:8227:HOH:O	2.10	0.51
6:N:1503:VAL:HG22	10:N:8220:HOH:O	2.08	0.51
6:N:1346:ARG:HG2	10:N:8499:HOH:O	2.09	0.51
5:C:1034:GLU:CB	6:D:619:LEU:HD22	2.29	0.51
6:D:1295:GLU:CB	6:N:76:CYS:HB2	2.39	0.51
5:M:1056:LYS:HE3	6:N:751:LEU:HG	1.93	0.51
5:M:676:ILE:HG23	6:N:948:THR:HB	1.92	0.51
6:N:951:ILE:HD12	6:N:1062:ARG:HD3	1.92	0.51
5:C:874:LEU:O	6:D:1029:ARG:HD2	2.10	0.51
6:D:496:LEU:HD21	6:D:1388:ARG:HG3	1.93	0.51
5:C:274:ARG:CG	5:C:285:LEU:HD13	2.40	0.51
6:D:1184:GLN:HG2	10:D:8308:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:75:VAL:HA	4:K:78:ILE:HD12	1.93	0.51
5:C:52:PHE:CE1	5:C:66:LEU:HG	2.46	0.51
4:L:62:LEU:H	4:L:62:LEU:HD12	1.73	0.51
5:M:424:GLY:C	5:M:428:ARG:HD2	2.31	0.51
5:C:118:ILE:HD12	5:C:340:MET:HE2	1.92	0.51
6:N:758:GLU:O	6:N:762:GLN:HG3	2.11	0.51
6:D:1393:GLN:HB2	6:D:1398:TRP:HE1	1.74	0.51
6:D:133:ILE:CG1	6:D:456:MET:HB3	2.39	0.51
6:D:165:LYS:CB	6:D:397:LYS:N	2.66	0.51
2:H:1:G:C4'	2:H:2:A:OP1	2.57	0.51
7:O:41:GLU:HB2	7:O:45:ARG:CZ	2.40	0.51
5:M:437:ARG:CZ	5:M:488:ALA:HA	2.40	0.51
5:M:54:ILE:HG22	5:M:66:LEU:HB3	1.93	0.51
5:M:20:GLU:HG2	5:M:21:ILE:N	2.26	0.51
6:N:792:ILE:HD11	6:N:881:LEU:HD23	1.92	0.51
5:C:25:SER:HB2	5:C:335:THR:HB	1.91	0.51
5:C:1008:ARG:HH12	5:C:1010:THR:C	2.14	0.51
6:N:972:LEU:HG	6:N:976:GLN:NE2	2.25	0.51
5:M:285:LEU:HA	10:M:1151:HOH:O	2.10	0.51
6:D:1486:VAL:CG1	7:E:22:VAL:HG13	2.40	0.51
6:D:696:HIS:NE2	7:E:54:LEU:HD11	2.25	0.51
5:C:345:ARG:HA	5:C:348:LEU:HD22	1.92	0.51
6:D:1377:LYS:HG2	6:D:1378:TYR:CZ	2.46	0.51
6:N:160:GLU:HB3	6:N:165:LYS:HE2	1.91	0.51
5:C:502:PRO:HB2	10:C:1228:HOH:O	2.10	0.51
1:X:16:DG:P	5:M:1031:ARG:HD3	2.50	0.51
6:N:36:THR:O	6:N:38:LYS:N	2.42	0.51
6:N:881:LEU:O	6:N:881:LEU:HD12	2.11	0.51
7:O:54:LEU:HG	7:O:58:PRO:HG2	1.93	0.51
5:C:1085:PHE:O	5:C:1089:VAL:HG23	2.09	0.51
6:D:699:VAL:HG22	6:D:756:GLN:HE21	1.76	0.51
6:D:1045:MET:HG3	6:D:1073:SER:OG	2.10	0.51
6:N:684:LYS:O	6:N:687:VAL:HG23	2.10	0.51
6:N:462:GLN:HE21	6:N:513:ILE:HD13	1.75	0.51
6:N:1120:VAL:HG11	6:N:1144:LEU:HD21	1.91	0.51
6:N:436:GLU:HB3	10:N:8213:HOH:O	2.10	0.51
5:M:713:ARG:HB3	5:M:720:GLU:OE2	2.09	0.51
5:M:254:VAL:HA	5:M:257:VAL:HG23	1.91	0.51
5:M:15:LEU:HG	5:M:458:TYR:CE1	2.45	0.51
4:A:52:ALA:HA	10:A:377:HOH:O	2.10	0.51
6:D:204:LEU:HB3	6:D:441:ARG:HH12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:1032:PHE:O	5:C:1033:GLY:O	2.29	0.51
6:D:705:ALA:HB3	6:D:706:PRO:HD3	1.92	0.51
5:C:110:GLU:H	5:C:368:THR:HG21	1.76	0.51
5:M:1085:PHE:CE2	6:N:1468:LEU:HA	2.44	0.51
5:M:464:LEU:O	5:M:466:PHE:N	2.43	0.51
5:M:880:MET:HB3	6:N:1061:PHE:CE2	2.46	0.51
5:M:211:LEU:HD13	5:M:308:ARG:HD3	1.91	0.51
4:L:89:PHE:CD1	4:L:89:PHE:N	2.78	0.51
5:M:276:LYS:O	5:M:280:LYS:HB2	2.10	0.51
5:C:101:ILE:HD11	10:C:1128:HOH:O	2.11	0.51
5:M:612:VAL:HB	10:M:1590:HOH:O	2.11	0.51
6:D:907:GLU:HG2	6:D:908:LYS:N	2.25	0.51
5:M:409:ARG:HD3	10:M:1140:HOH:O	2.10	0.51
4:K:48:ILE:CD1	4:K:210:ALA:HB1	2.40	0.51
5:C:7:GLY:C	5:C:8:ARG:HD2	2.31	0.51
4:K:173:PRO:O	4:K:201:THR:HG22	2.10	0.51
6:N:1312:LEU:HG	6:N:1327:ARG:CD	2.40	0.51
5:C:676:ILE:HG21	5:C:988:VAL:HG22	1.92	0.51
6:N:1114:THR:CG2	6:N:1195:GLN:HB3	2.40	0.51
5:M:28:ARG:HD3	10:M:1459:HOH:O	2.09	0.51
5:M:585:GLU:O	5:M:588:VAL:HG22	2.10	0.51
6:N:1330:ILE:HG22	10:N:8088:HOH:O	2.10	0.51
4:K:91:ASN:HB3	10:K:772:HOH:O	2.09	0.51
6:N:1308:GLU:HB3	10:N:8559:HOH:O	2.11	0.51
4:B:41:ARG:HG3	4:B:177:VAL:HG21	1.93	0.51
6:D:159:ARG:HG2	6:D:163:TYR:OH	2.10	0.51
6:D:619:LEU:N	6:D:619:LEU:HD23	2.25	0.51
5:M:1016:ILE:HG12	5:M:1017:THR:N	2.24	0.51
6:D:770:LEU:HD23	6:D:777:PRO:HA	1.92	0.51
5:C:1005:MET:HE1	6:D:724:GLN:HA	1.90	0.51
4:K:82:LEU:HD11	4:K:140:MET:HE3	1.93	0.51
4:A:18:ARG:HH11	4:A:123:MET:CE	2.23	0.51
5:M:197:LEU:HB3	5:M:202:TYR:HB2	1.92	0.51
6:D:584:ASN:HD21	6:D:590:PRO:HB2	1.76	0.51
5:C:333:ILE:CG2	5:C:410:ILE:HD11	2.40	0.51
5:C:408:ARG:NH2	5:C:456:ALA:O	2.44	0.51
6:N:407:VAL:HA	6:N:422:ALA:HB2	1.93	0.51
5:M:292:ARG:HD2	5:M:299:LYS:CD	2.41	0.51
5:C:577:PRO:HG3	5:C:993:PHE:CE1	2.46	0.51
6:N:566:ILE:HG23	10:N:8692:HOH:O	2.09	0.51
6:N:438:ASP:HB2	6:N:445:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:914:ILE:HA	5:M:917:LEU:HD12	1.93	0.51
6:D:1329:ALA:C	6:D:1330:ILE:HD12	2.31	0.51
5:C:816:LYS:HB2	5:C:819:VAL:HG21	1.92	0.51
7:O:8:LYS:O	7:O:12:MET:HG3	2.11	0.51
6:D:206:ARG:HG2	6:D:394:LEU:CD2	2.38	0.51
6:D:1313:VAL:HB	10:D:8079:HOH:O	2.10	0.51
6:N:705:ALA:HB3	6:N:706:PRO:HD3	1.91	0.51
2:Y:8:C:H2'	2:Y:9:G:N7	2.25	0.51
4:B:29:GLU:HB2	4:B:32:PHE:CD1	2.44	0.51
6:N:131:LYS:HG2	6:N:456:MET:HE3	1.92	0.51
6:D:517:VAL:HG23	10:D:8465:HOH:O	2.11	0.51
5:C:18:LEU:HD12	5:C:18:LEU:H	1.75	0.51
5:C:948:GLU:OE1	5:C:955:PRO:HA	2.11	0.51
1:X:14:DT:H2''	1:X:15:DC:C5'	2.40	0.51
1:X:15:DC:H4'	10:X:927:HOH:O	2.10	0.51
6:D:1288:GLU:HB2	10:D:8101:HOH:O	2.10	0.51
5:M:892:LEU:HD22	5:M:989:VAL:O	2.10	0.51
5:C:347:GLY:CA	10:C:1757:HOH:O	2.59	0.51
6:N:1232:PRO:HB3	6:N:1361:VAL:CG2	2.40	0.51
4:A:185:ARG:HB3	10:A:459:HOH:O	2.10	0.51
6:N:866:VAL:HG12	10:N:8247:HOH:O	2.11	0.51
6:D:827:ILE:H	6:D:827:ILE:HD12	1.75	0.51
6:N:657:LEU:HD13	6:N:691:LEU:HD13	1.92	0.51
5:M:496:ILE:HA	5:M:531:PHE:O	2.11	0.51
4:A:173:PRO:HB2	4:A:205:VAL:HG22	1.92	0.51
5:M:1004:LYS:HG3	10:M:1541:HOH:O	2.11	0.51
7:E:81:PRO:HG2	10:E:102:HOH:O	2.10	0.51
6:N:83:SER:O	6:N:86:ARG:HB3	2.11	0.51
4:A:224:TYR:CD1	4:B:9:PRO:HD2	2.46	0.51
6:D:141:ILE:HG13	6:D:142:LEU:N	2.21	0.51
7:O:25:LYS:O	7:O:29:GLN:HG3	2.10	0.51
5:M:45:GLN:HB2	5:M:71:TYR:CE2	2.46	0.51
6:N:786:ILE:HD13	6:N:908:LYS:HB2	1.93	0.51
6:N:642:CYS:SG	6:N:716:PHE:HB2	2.50	0.51
6:N:877:PRO:O	6:N:880:ILE:HG22	2.11	0.51
6:D:101:HIS:O	6:D:105:VAL:HG23	2.09	0.51
6:N:578:VAL:HA	6:N:581:LEU:HD21	1.91	0.51
6:D:1176:LYS:O	6:D:1179:GLU:HB2	2.10	0.51
5:M:195:LEU:CG	5:M:238:LEU:HG	2.41	0.51
6:D:1161:GLU:OE2	6:D:1164:ARG:HD2	2.11	0.51
6:N:1227:GLN:NE2	10:N:8504:HOH:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:14:ARG:HH22	4:K:24:VAL:HG23	1.75	0.51
5:C:971:LYS:HG2	5:C:988:VAL:HG12	1.92	0.51
5:M:949:LYS:HE2	10:M:1582:HOH:O	2.10	0.51
5:C:720:GLU:HG2	5:C:760:SER:HB3	1.92	0.51
6:D:1452:ILE:HG22	6:D:1453:ALA:N	2.26	0.51
6:D:165:LYS:N	6:D:397:LYS:H	2.09	0.51
6:D:1280:VAL:HG12	6:D:1318:TYR:N	2.26	0.51
5:C:110:GLU:HG3	5:C:369:PRO:CB	2.39	0.51
6:N:789:LEU:O	6:N:793:THR:HG23	2.11	0.51
5:C:191:PHE:CD2	5:C:195:LEU:HD23	2.44	0.51
5:C:302:VAL:O	5:C:305:PRO:HD2	2.11	0.51
6:D:171:LEU:HD11	6:D:192:ALA:CB	2.41	0.51
6:D:1264:GLU:HB3	6:D:1266:ARG:HE	1.73	0.51
5:C:18:LEU:CD2	5:C:542:VAL:HG21	2.40	0.51
6:N:409:VAL:HG11	6:N:435:VAL:HG21	1.93	0.51
6:D:1173:LEU:HD12	6:D:1176:LYS:HZ1	1.76	0.51
6:D:813:LEU:HD12	6:D:814:ALA:N	2.25	0.51
6:D:1053:PHE:CZ	6:D:1072:ILE:HD12	2.46	0.51
6:D:894:LYS:HB2	10:D:8061:HOH:O	2.10	0.51
4:A:31:GLY:HA3	4:B:42:ARG:NH2	2.26	0.51
6:D:988:ARG:O	6:D:992:ILE:HG13	2.11	0.51
6:D:1105:ILE:HG12	6:D:1374:GLN:HE21	1.75	0.51
6:N:1114:THR:HA	10:N:8641:HOH:O	2.11	0.51
4:K:91:ASN:OD1	4:K:92:PRO:HD2	2.10	0.51
5:M:712:ALA:HB3	5:M:821:GLU:CG	2.41	0.51
5:C:500:ASN:ND2	5:C:500:ASN:N	2.59	0.51
6:N:1337:GLU:HG2	10:N:8211:HOH:O	2.09	0.51
6:D:1409:ALA:HA	5:M:370:ALA:CB	2.40	0.51
6:D:153:LEU:HG	10:D:8076:HOH:O	2.11	0.51
6:D:162:ARG:NH2	6:D:414:ARG:HH21	2.08	0.51
5:M:468:ARG:HG2	5:M:487:THR:CA	2.30	0.51
5:C:861:LEU:HD23	5:C:863:ASP:H	1.75	0.51
5:M:36:PRO:HB3	10:M:1170:HOH:O	2.09	0.51
7:O:54:LEU:O	7:O:58:PRO:HD2	2.11	0.51
5:M:114:PHE:HD2	5:M:117:HIS:HE1	1.59	0.51
6:D:1129:THR:HG23	6:D:1130:ARG:N	2.20	0.51
6:N:204:LEU:O	6:N:394:LEU:HD23	2.11	0.51
5:C:83:CYS:HA	5:C:88:LEU:HB3	1.92	0.51
4:L:25:LEU:O	4:L:28:LEU:HD21	2.10	0.51
5:C:139:GLN:HE21	5:C:418:LEU:HD21	1.75	0.51
6:N:764:LEU:HD23	6:N:767:HIS:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:1065:ALA:HA	10:C:1487:HOH:O	2.11	0.51
5:C:564:MET:HE1	5:C:840:ALA:HB3	1.93	0.51
5:C:676:ILE:CG2	5:C:988:VAL:HG22	2.40	0.51
4:B:185:ARG:HH12	6:D:692:GLU:HG2	1.76	0.51
5:M:617:ASP:CG	5:M:619:ARG:HE	2.14	0.51
5:M:166:PRO:HD2	10:M:1158:HOH:O	2.11	0.51
5:M:171:TRP:HB2	10:M:1138:HOH:O	2.10	0.51
6:N:1108:ARG:NH2	6:N:1198:TYR:O	2.45	0.50
2:Y:7:G:N2	5:M:1014:SER:HA	2.25	0.50
6:N:525:ARG:HG2	6:N:541:ASN:ND2	2.24	0.50
6:N:631:ILE:HG12	6:N:743:ASP:O	2.11	0.50
6:N:161:LEU:O	6:N:449:SER:HB2	2.11	0.50
5:M:469:THR:N	10:M:1264:HOH:O	2.44	0.50
5:M:344:PHE:O	5:M:348:LEU:HD13	2.11	0.50
6:D:26:VAL:HG13	6:D:43:GLY:O	2.10	0.50
6:D:982:PHE:HB3	6:D:983:LEU:HD23	1.92	0.50
6:D:983:LEU:N	6:D:983:LEU:HD23	2.26	0.50
5:C:333:ILE:HD12	5:C:333:ILE:N	2.25	0.50
5:C:905:ILE:HG22	10:C:1239:HOH:O	2.11	0.50
5:C:140:ILE:HD13	5:C:331:ARG:NH2	2.24	0.50
6:N:146:PRO:HD3	10:N:8492:HOH:O	2.10	0.50
6:D:108:VAL:CB	6:D:109:PRO:HD3	2.40	0.50
6:N:800:LYS:HD2	6:N:804:LEU:HB3	1.92	0.50
6:N:1053:PHE:CE1	6:N:1072:ILE:HD12	2.46	0.50
4:A:161:ARG:HB2	4:A:161:ARG:NH1	2.26	0.50
6:D:988:ARG:HD2	6:D:989:TYR:N	2.25	0.50
5:C:30:LEU:HD12	5:C:30:LEU:O	2.11	0.50
4:A:26:GLU:OE2	4:A:194:LYS:HE3	2.10	0.50
6:D:1290:LEU:HD22	10:D:8003:HOH:O	2.11	0.50
5:M:1009:SER:HB3	6:N:651:GLU:OE1	2.10	0.50
5:C:818:GLY:HA3	10:D:8445:HOH:O	2.11	0.50
4:B:51:THR:HA	4:B:145:ASP:O	2.10	0.50
5:M:226:VAL:HG13	5:M:227:PHE:CD1	2.47	0.50
6:D:1341:PRO:HA	6:D:1344:VAL:HG23	1.93	0.50
5:C:1031:ARG:NE	6:D:621:LYS:HB3	2.25	0.50
7:E:41:GLU:HG2	7:E:42:PRO:CD	2.41	0.50
5:M:80:GLN:O	5:M:83:CYS:HB2	2.11	0.50
6:N:191:LEU:HB3	6:N:393:ILE:HD12	1.92	0.50
6:N:191:LEU:CD2	6:N:393:ILE:HG21	2.41	0.50
4:K:206:THR:CG2	4:K:209:GLU:H	2.23	0.50
5:C:572:ILE:HG13	5:C:573:ARG:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:189:GLN:HG2	6:D:190:GLU:N	2.26	0.50
5:C:207:LEU:HD22	5:C:221:LEU:HD22	1.93	0.50
5:M:806:LEU:HD21	10:M:1605:HOH:O	2.11	0.50
5:M:196:LEU:O	5:M:199:VAL:HB	2.11	0.50
5:C:762:LYS:HZ2	5:C:786:LYS:CA	2.24	0.50
6:N:470:LEU:HD12	6:N:503:LEU:CD2	2.42	0.50
5:C:798:GLY:H	5:C:827:VAL:HG13	1.76	0.50
6:D:2:LYS:HD2	10:D:8579:HOH:O	2.12	0.50
6:N:1330:ILE:HG22	6:N:1331:ASP:N	2.26	0.50
5:M:717:LEU:HB2	10:M:1337:HOH:O	2.10	0.50
6:D:937:TYR:HB3	6:D:941:PHE:CE1	2.45	0.50
4:L:2:LEU:HD21	10:L:431:HOH:O	2.11	0.50
4:A:224:TYR:HB3	4:B:9:PRO:CB	2.37	0.50
1:X:18:DG:H5'	1:X:18:DG:C8	2.46	0.50
6:D:1384:PRO:HG3	6:D:1389:LEU:HA	1.92	0.50
5:C:200:LEU:HD11	10:C:1613:HOH:O	2.11	0.50
6:N:1037:GLN:CG	6:N:1042:ARG:HB3	2.41	0.50
5:C:139:GLN:CG	5:C:418:LEU:HD22	2.41	0.50
5:C:194:VAL:HG21	5:C:221:LEU:O	2.10	0.50
5:C:1051:GLU:OE1	6:D:750:PRO:HA	2.12	0.50
5:M:270:GLY:O	5:M:274:ARG:HB3	2.11	0.50
5:C:69:LEU:HD12	5:C:97:ARG:HB3	1.93	0.50
7:E:54:LEU:O	7:E:58:PRO:HD2	2.11	0.50
6:D:63:TYR:HB3	6:D:68:PHE:CE1	2.46	0.50
6:D:23:TYR:O	6:D:49:ILE:HG23	2.11	0.50
5:M:63:GLY:HA3	5:M:103:LYS:HD2	1.94	0.50
6:D:1405:GLU:HB3	10:D:8672:HOH:O	2.12	0.50
5:C:775:ARG:NH1	5:C:782:ALA:HB1	2.26	0.50
4:A:41:ARG:HG3	4:A:41:ARG:HH11	1.76	0.50
6:N:190:GLU:HG2	6:N:196:VAL:HG22	1.92	0.50
6:D:615:ARG:NH2	6:D:1096:ARG:CZ	2.74	0.50
5:C:1102:LEU:HA	5:C:1107:ASN:O	2.12	0.50
5:C:881:ASN:OD1	5:C:884:GLN:NE2	2.45	0.50
7:O:27:ALA:CB	7:O:61:VAL:CG1	2.84	0.50
5:M:101:ILE:HG22	5:M:102:HIS:N	2.26	0.50
5:C:583:LEU:O	5:C:587:VAL:HG23	2.11	0.50
4:A:64:GLU:HA	4:A:165:ILE:HD13	1.94	0.50
10:A:368:HOH:O	4:B:215:VAL:HG11	2.10	0.50
7:O:40:LEU:CD2	7:O:67:GLU:HA	2.41	0.50
7:E:40:LEU:HD21	7:E:67:GLU:HA	1.93	0.50
6:N:481:MET:HE1	6:N:496:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:690:ILE:CD1	5:M:833:LEU:HD23	2.42	0.50
5:C:676:ILE:O	5:C:676:ILE:HG12	2.11	0.50
6:D:1462:LEU:N	6:D:1462:LEU:HD23	2.26	0.50
5:C:819:VAL:HG11	10:C:1766:HOH:O	2.11	0.50
5:C:186:VAL:HG23	5:C:187:ASN:H	1.76	0.50
5:C:642:ARG:HG3	5:C:657:ASP:OD2	2.11	0.50
5:M:657:ASP:HB2	10:M:1487:HOH:O	2.10	0.50
6:D:431:VAL:HG11	10:D:8759:HOH:O	2.11	0.50
6:D:703:ASN:ND2	6:D:704:ARG:H	2.09	0.50
6:D:1297:GLU:HB2	6:N:47:GLU:C	2.31	0.50
5:C:110:GLU:HG3	5:C:369:PRO:CG	2.42	0.50
5:M:1065:ALA:HB1	5:M:1077:PRO:CG	2.32	0.50
5:M:557:ARG:NH1	5:M:560:MET:HG3	2.26	0.50
5:M:193:LEU:HD23	5:M:307:LEU:CD2	2.41	0.50
5:M:307:LEU:HD12	5:M:310:LEU:HD23	1.94	0.50
5:M:122:THR:HB	5:M:124:ASP:OD1	2.12	0.50
6:D:554:LEU:HD22	6:D:574:LEU:HD22	1.94	0.50
4:A:24:VAL:HG22	4:A:196:THR:CG2	2.41	0.50
6:N:881:LEU:O	6:N:885:ILE:HG13	2.11	0.50
6:N:917:GLN:O	6:N:921:ARG:HG2	2.10	0.50
7:O:54:LEU:HD11	10:O:2990:HOH:O	2.12	0.50
5:C:439:CYS:SG	5:C:541:SER:N	2.81	0.50
5:M:727:PRO:CG	5:M:783:ARG:HH21	2.25	0.50
4:B:78:ILE:O	4:B:82:LEU:HG	2.12	0.50
6:D:973:GLN:NE2	10:D:8304:HOH:O	2.45	0.50
6:N:1283:ILE:HG22	6:N:1284:GLU:N	2.27	0.50
5:C:612:VAL:HA	5:C:621:VAL:O	2.11	0.50
6:D:1345:GLU:O	6:D:1349:VAL:HG23	2.12	0.50
7:E:70:THR:HB	7:E:72:ARG:HG2	1.93	0.50
5:C:824:ARG:HD2	5:C:826:TYR:OH	2.12	0.50
5:M:642:ARG:HD3	10:M:1279:HOH:O	2.12	0.50
4:B:1:MET:O	4:B:6:LEU:HD22	2.11	0.50
5:C:841:ASN:HD21	5:C:845:ASN:H	1.58	0.50
5:M:530:GLU:HG2	10:M:1426:HOH:O	2.12	0.50
4:K:141:GLU:OE1	4:K:161:ARG:NH1	2.44	0.50
6:D:199:LEU:HG	10:D:8327:HOH:O	2.10	0.50
6:N:1062:ARG:HB3	10:N:8184:HOH:O	2.11	0.50
5:C:1101:THR:HG21	5:C:1111:ILE:HG23	1.93	0.50
6:D:100:ALA:HB2	6:D:128:TYR:OH	2.11	0.50
5:C:141:HIS:HB3	5:C:418:LEU:CG	2.42	0.50
4:B:20:TYR:CD2	4:B:21:GLY:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1263:PHE:CE1	6:D:1352:ILE:HD13	2.47	0.50
6:N:986:ARG:HB2	10:N:8323:HOH:O	2.11	0.50
6:N:147:VAL:HA	10:N:8520:HOH:O	2.11	0.50
7:O:5:GLY:HA3	7:O:8:LYS:HD2	1.94	0.50
5:C:713:ARG:HB3	5:C:720:GLU:OE2	2.11	0.50
6:N:550:ARG:CZ	6:N:550:ARG:HB2	2.40	0.50
4:A:163:ASN:HB2	10:A:376:HOH:O	2.11	0.50
6:N:1063:GLU:CD	6:N:1064:GLY:H	2.15	0.50
6:D:1306:PRO:HG3	10:D:8338:HOH:O	2.12	0.50
6:D:166:GLN:CG	6:D:396:VAL:HG12	2.33	0.50
6:N:917:GLN:HA	6:N:920:LEU:CD1	2.36	0.50
5:C:441:VAL:HG12	5:C:559:LEU:HA	1.92	0.50
5:M:627:ARG:HG3	5:M:628:PHE:H	1.75	0.50
5:M:196:LEU:HD22	5:M:303:PHE:CE2	2.47	0.50
5:C:603:VAL:HG23	5:C:647:GLN:O	2.12	0.50
6:D:1492:LEU:HD13	6:D:1492:LEU:O	2.12	0.50
5:C:157:ARG:HD3	5:C:314:THR:CG2	2.41	0.50
7:O:30:LEU:HD23	7:O:35:PHE:CE1	2.47	0.50
6:D:58:CYS:SG	6:D:59:ALA:N	2.84	0.50
5:M:724:ARG:O	5:M:726:ILE:HD12	2.11	0.50
5:M:290:LEU:HB3	5:M:302:VAL:CG1	2.42	0.50
4:A:2:LEU:HD22	10:A:384:HOH:O	2.10	0.50
5:C:966:LEU:O	5:C:969:GLN:HB2	2.11	0.50
6:D:730:PRO:O	6:D:733:CYS:HB2	2.12	0.50
6:N:404:GLU:HA	10:N:8307:HOH:O	2.10	0.50
5:C:1031:ARG:NE	6:D:621:LYS:HD2	2.27	0.50
6:N:7:LYS:HE2	6:N:1458:GLU:OE2	2.12	0.50
4:K:94:LEU:HD11	4:K:119:ASP:HB3	1.93	0.50
5:M:344:PHE:CE2	5:M:382:ILE:HD11	2.47	0.50
4:L:83:LYS:HD2	6:N:844:ALA:HB2	1.94	0.50
5:C:1101:THR:HB	6:D:5:VAL:CG1	2.42	0.50
6:N:792:ILE:HG23	6:N:793:THR:HG23	1.94	0.50
6:D:1380:GLU:HB2	6:D:1420:LEU:HD11	1.92	0.50
6:N:1211:MET:SD	6:N:1213:ARG:HG2	2.51	0.50
4:K:206:THR:CG2	4:K:209:GLU:HG3	2.38	0.50
6:N:426:LYS:CE	6:N:427:VAL:HG23	2.42	0.50
6:D:1258:ARG:NH2	6:D:1351:GLU:HG2	2.24	0.50
7:O:2:ALA:HB3	10:O:920:HOH:O	2.11	0.50
5:C:1051:GLU:CD	6:D:751:LEU:H	2.15	0.50
7:O:26:ARG:HH21	7:O:67:GLU:CD	2.16	0.50
6:D:400:VAL:HG22	6:D:443:VAL:CG2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:106:PRO:HG3	4:A:134:GLU:OE2	2.11	0.50
6:D:531:ASP:C	6:D:533:GLY:H	2.15	0.50
5:C:480:THR:HG21	5:C:482:GLU:HB2	1.94	0.50
6:N:896:ALA:O	6:N:900:ILE:HG23	2.11	0.50
4:K:118:ALA:HB2	10:K:2242:HOH:O	2.12	0.50
6:D:465:LEU:HD22	6:D:510:GLU:HA	1.93	0.50
5:M:1012:PRO:HD3	5:M:1026:GLN:HG2	1.93	0.50
6:N:6:ARG:O	6:N:1459:LEU:HD12	2.12	0.50
5:M:950:LEU:HB3	5:M:952:LEU:HD23	1.94	0.50
5:M:462:ASP:CB	5:M:468:ARG:HD2	2.41	0.50
5:M:472:ARG:HH21	5:M:532:MET:HE1	1.76	0.50
5:M:194:VAL:CG1	5:M:204:GLN:HE22	2.24	0.50
4:L:165:ILE:HG13	4:L:165:ILE:O	2.12	0.50
5:M:872:ASN:ND2	5:M:874:LEU:HB2	2.23	0.50
5:M:292:ARG:HD2	5:M:299:LYS:HG2	1.93	0.50
5:M:792:VAL:HG13	10:M:1674:HOH:O	2.10	0.50
5:C:900:ARG:HB2	10:C:1242:HOH:O	2.11	0.50
5:C:922:PHE:HZ	5:C:963:LEU:HB3	1.77	0.50
6:D:1493:LYS:HE2	6:D:1493:LYS:HA	1.94	0.50
5:C:585:GLU:HG2	5:C:665:PHE:CE2	2.47	0.50
6:N:1290:LEU:HD11	10:N:8178:HOH:O	2.11	0.50
5:C:927:GLY:HA2	5:C:930:LYS:HD3	1.92	0.50
4:B:205:VAL:HG13	10:B:320:HOH:O	2.12	0.50
4:L:169:ALA:HB1	4:L:171:PHE:CZ	2.46	0.50
5:M:614:ARG:HG3	10:M:1391:HOH:O	2.11	0.50
6:N:63:TYR:HB3	6:N:68:PHE:CE1	2.46	0.50
5:M:47:ALA:O	5:M:50:GLU:HB3	2.11	0.50
5:C:886:LEU:CD1	6:D:951:ILE:HG13	2.41	0.50
6:D:415:VAL:HG11	10:D:8313:HOH:O	2.12	0.49
6:D:1280:VAL:HG12	6:D:1318:TYR:CA	2.42	0.49
6:N:111:LYS:HG2	6:N:1452:ILE:HD11	1.94	0.49
4:K:85:LEU:HD11	4:K:87:VAL:HG13	1.94	0.49
5:M:7:GLY:HA2	5:M:907:ASP:O	2.12	0.49
6:D:543:LEU:HD22	6:D:580:ALA:CB	2.35	0.49
5:M:25:SER:CB	5:M:335:THR:HB	2.42	0.49
5:M:368:THR:HB	5:M:369:PRO:HD3	1.94	0.49
6:N:925:GLU:HB3	10:O:920:HOH:O	2.12	0.49
5:M:625:LEU:HB3	5:M:639:GLN:HB2	1.94	0.49
5:C:160:ALA:O	5:C:173:ASP:HA	2.12	0.49
5:M:725:ASP:O	5:M:727:PRO:HD3	2.11	0.49
5:C:254:VAL:HA	5:C:257:VAL:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1147:ARG:O	6:N:1165:TYR:HA	2.12	0.49
4:B:18:ARG:HH12	4:B:123:MET:CE	2.24	0.49
4:L:52:ALA:HB2	4:L:170:VAL:O	2.12	0.49
6:N:845:ASN:H	6:N:848:GLU:HG3	1.76	0.49
4:K:185:ARG:HG3	4:K:185:ARG:O	2.11	0.49
4:B:47:SER:OG	4:B:217:ILE:HG12	2.12	0.49
4:L:41:ARG:HG3	4:L:177:VAL:CG2	2.43	0.49
5:M:808:ARG:HH21	5:M:820:ARG:HH21	1.60	0.49
5:M:1012:PRO:HB2	5:M:1021:LEU:O	2.12	0.49
5:M:1016:ILE:HG21	6:N:524:LEU:O	2.12	0.49
6:N:26:VAL:HG13	6:N:43:GLY:O	2.11	0.49
2:Y:16:G:N2	6:N:705:ALA:HB1	2.27	0.49
4:B:32:PHE:O	4:B:36:LEU:HG	2.11	0.49
6:D:1475:GLY:O	6:D:1478:SER:HB3	2.12	0.49
1:G:18:DG:H4'	5:C:1002:GLU:CA	2.42	0.49
5:M:139:GLN:OE1	5:M:414:GLY:HA3	2.11	0.49
5:M:367:LEU:HB3	5:M:371:LYS:HG2	1.92	0.49
6:D:1023:MET:O	6:D:1028:ALA:HB3	2.13	0.49
5:C:290:LEU:HD22	5:C:302:VAL:HG11	1.95	0.49
6:N:1066:THR:HG23	6:N:1069:GLU:H	1.76	0.49
5:C:13:ILE:HD13	5:C:483:VAL:HG21	1.94	0.49
4:K:27:PRO:HB3	10:K:689:HOH:O	2.12	0.49
4:B:24:VAL:HG22	4:B:196:THR:CG2	2.42	0.49
5:C:958:THR:HG21	10:C:1136:HOH:O	2.11	0.49
5:C:606:VAL:CG2	5:C:645:VAL:HG13	2.43	0.49
6:D:764:LEU:HD12	6:D:765:SER:H	1.77	0.49
6:D:834:THR:HB	6:D:838:ARG:HB2	1.94	0.49
6:D:646:LYS:NZ	6:D:688:TRP:HE1	2.10	0.49
4:K:50:GLY:O	4:K:146:ARG:HA	2.12	0.49
5:M:1038:TRP:HA	5:M:1041:GLU:HB2	1.94	0.49
4:K:150:TYR:OH	5:M:695:LEU:HD22	2.12	0.49
5:M:1098:ASP:HB2	6:N:21:TRP:HZ2	1.77	0.49
6:N:155:ASP:OD2	6:N:564:GLU:HG3	2.12	0.49
4:L:73:GLU:OE1	4:L:131:THR:HG23	2.13	0.49
6:D:731:LEU:HD21	6:D:781:PRO:HA	1.95	0.49
6:D:931:LEU:HD11	10:D:8259:HOH:O	2.10	0.49
5:M:966:LEU:O	5:M:969:GLN:HB2	2.12	0.49
5:C:135:VAL:O	5:C:392:SER:HA	2.11	0.49
5:C:1016:ILE:HG12	5:C:1017:THR:H	1.77	0.49
5:M:553:ASP:OD1	5:M:843:HIS:ND1	2.41	0.49
5:C:61:LYS:HE2	10:C:1122:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:996:TRP:O	6:N:999:THR:HG22	2.11	0.49
5:C:627:ARG:HG3	5:C:628:PHE:H	1.77	0.49
6:D:17:LYS:CG	6:D:21:TRP:HE1	2.23	0.49
5:C:172:ILE:N	5:C:172:ILE:HD12	2.28	0.49
4:B:48:ILE:CD1	4:B:210:ALA:HB1	2.42	0.49
6:D:1396:GLU:O	6:D:1400:VAL:HG23	2.12	0.49
6:N:1314:LYS:HG3	10:N:8415:HOH:O	2.11	0.49
5:C:792:VAL:HG13	10:C:1254:HOH:O	2.12	0.49
4:L:58:ILE:HG22	4:L:61:VAL:H	1.78	0.49
5:C:500:ASN:H	5:C:500:ASN:ND2	2.10	0.49
5:M:808:ARG:HH21	5:M:820:ARG:NH2	2.11	0.49
4:A:69:PRO:O	4:A:71:VAL:HG23	2.12	0.49
4:B:64:GLU:HG3	4:B:165:ILE:HD12	1.94	0.49
2:H:5:C:O5'	2:H:5:C:H6	1.94	0.49
5:M:1013:TYR:CE1	5:M:1020:PRO:HG3	2.48	0.49
6:N:22:SER:HA	6:N:90:MET:O	2.11	0.49
6:N:26:VAL:HG13	6:N:43:GLY:C	2.32	0.49
6:N:704:ARG:CD	6:N:705:ALA:H	2.25	0.49
6:D:785:ILE:H	6:D:785:ILE:CD1	2.24	0.49
5:M:207:LEU:HD12	10:M:1660:HOH:O	2.11	0.49
6:D:82:LYS:HD2	10:D:8184:HOH:O	2.12	0.49
6:D:1356:TYR:HD2	6:D:1361:VAL:HG11	1.76	0.49
6:D:800:LYS:HD2	6:D:804:LEU:HB3	1.94	0.49
6:N:838:ARG:NH1	6:N:838:ARG:HG2	2.27	0.49
5:C:701:THR:HG23	5:C:832:LYS:HG2	1.93	0.49
10:A:375:HOH:O	4:B:208:LEU:HD21	2.12	0.49
5:C:144:PRO:HG2	5:C:265:ARG:HH12	1.77	0.49
6:N:804:LEU:N	6:N:804:LEU:HD23	2.27	0.49
6:N:1283:ILE:HD12	6:N:1315:ASP:OD2	2.12	0.49
5:M:428:ARG:HG2	5:M:428:ARG:HH11	1.76	0.49
4:K:13:VAL:HG22	4:K:23:PHE:HD1	1.77	0.49
5:C:528:GLU:HG2	10:C:1183:HOH:O	2.12	0.49
6:D:1373:ARG:HG2	10:D:8009:HOH:O	2.11	0.49
6:N:134:VAL:HA	6:N:152:LEU:HA	1.94	0.49
1:G:19:DC:P	5:C:1001:VAL:HB	2.53	0.49
6:D:32:ILE:HD12	6:D:527:MET:HG2	1.94	0.49
6:D:42:ASP:O	6:D:43:GLY:O	2.30	0.49
5:M:21:ILE:CD1	5:M:21:ILE:H	2.15	0.49
5:C:199:VAL:CG1	5:C:235:LEU:HG	2.42	0.49
5:C:57:GLU:O	5:C:62:GLY:HA3	2.12	0.49
5:C:625:LEU:HD11	5:C:641:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1366:LYS:HA	6:N:1369:GLU:OE1	2.11	0.49
6:N:1047:LYS:HZ2	6:N:1053:PHE:HA	1.76	0.49
6:N:963:TYR:HD2	6:N:1002:LYS:HB3	1.76	0.49
5:M:680:ASP:HB2	5:M:682:TYR:CE2	2.48	0.49
5:C:717:LEU:HD21	5:C:764:GLU:O	2.11	0.49
2:H:7:G:H8	2:H:7:G:O5'	1.95	0.49
4:A:42:ARG:HH21	4:B:31:GLY:HA3	1.77	0.49
10:M:1320:HOH:O	6:N:11:ALA:HB3	2.12	0.49
10:A:447:HOH:O	5:C:938:LYS:HD2	2.12	0.49
5:C:270:GLY:O	5:C:274:ARG:HB3	2.12	0.49
5:M:1059:ASP:OD2	5:M:1062:GLY:HA3	2.12	0.49
6:N:481:MET:HB3	10:N:8584:HOH:O	2.11	0.49
5:M:654:LEU:HG	5:M:654:LEU:O	2.13	0.49
5:M:290:LEU:HD21	10:M:1415:HOH:O	2.12	0.49
5:M:302:VAL:HG23	10:M:1616:HOH:O	2.11	0.49
6:D:87:ARG:CB	6:D:523:ASP:HB2	2.41	0.49
5:M:693:GLU:OE1	5:M:696:LYS:HD2	2.13	0.49
5:M:954:THR:HG21	10:M:1500:HOH:O	2.11	0.49
5:C:680:ASP:HB2	5:C:682:TYR:CE2	2.48	0.49
5:M:923:GLU:O	5:M:927:GLY:HA3	2.13	0.49
6:D:126:VAL:O	6:D:132:TYR:HE1	1.95	0.49
6:D:159:ARG:HA	10:D:8143:HOH:O	2.13	0.49
6:D:160:GLU:O	6:D:164:GLY:O	2.30	0.49
6:D:206:ARG:NE	6:D:394:LEU:HD13	2.28	0.49
5:C:1033:GLY:O	5:C:1037:VAL:HG23	2.12	0.49
6:N:457:GLY:HA3	6:N:568:ARG:HH12	1.78	0.49
5:M:862:PRO:HD3	5:M:973:VAL:O	2.12	0.49
1:G:11:DC:H4'	1:G:12:DG:OP1	2.13	0.49
5:C:687:ALA:O	5:C:688:ILE:HD12	2.12	0.49
5:C:141:HIS:HB3	5:C:418:LEU:CB	2.42	0.49
6:N:145:VAL:CG2	6:N:146:PRO:HD2	2.42	0.49
10:L:356:HOH:O	6:N:813:LEU:HD21	2.11	0.49
5:M:762:LYS:HE3	5:M:786:LYS:HE2	1.93	0.49
4:B:105:GLY:CA	10:B:331:HOH:O	2.56	0.49
4:K:79:ILE:HG21	4:K:165:ILE:HD11	1.93	0.49
4:A:26:GLU:CB	4:A:194:LYS:HG3	2.42	0.49
4:K:1:MET:N	4:K:1:MET:SD	2.84	0.49
7:O:33:HIS:HB2	7:O:37:ASN:ND2	2.28	0.49
6:D:411:THR:HG23	6:D:436:GLU:HA	1.94	0.49
5:M:1031:ARG:NH1	6:N:621:LYS:NZ	2.61	0.49
2:Y:11:C:O2'	2:Y:12:G:H5''	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1212:ALA:HB3	10:D:8004:HOH:O	2.13	0.49
5:M:1111:ILE:HG13	5:M:1112:PHE:N	2.25	0.49
5:M:410:ILE:HD12	10:M:1196:HOH:O	2.12	0.49
5:C:975:TYR:HA	5:C:982:PRO:HA	1.94	0.49
4:A:87:VAL:HG11	10:A:448:HOH:O	2.12	0.49
5:M:189:ARG:HD3	5:M:190:LYS:HD2	1.94	0.49
5:C:158:TYR:CD1	5:C:313:LEU:HD21	2.48	0.49
5:M:144:PRO:O	5:M:276:LYS:HD3	2.12	0.49
6:D:100:ALA:HB2	10:D:8073:HOH:O	2.11	0.49
5:C:625:LEU:O	5:C:627:ARG:N	2.46	0.49
7:E:33:HIS:CD2	7:E:89:MET:HG2	2.48	0.49
5:C:838:LYS:HD3	5:C:846:LYS:NZ	2.28	0.49
6:N:633:VAL:HG22	6:N:635:PRO:CD	2.43	0.49
6:D:971:LEU:HA	6:D:974:ILE:HD12	1.94	0.49
6:N:1025:GLN:HE21	6:N:1025:GLN:CA	2.25	0.49
5:M:584:GLU:CD	5:M:584:GLU:H	2.16	0.49
4:K:125:PRO:HB3	10:K:2278:HOH:O	2.12	0.49
6:D:1189:ARG:HG3	6:D:1189:ARG:HH11	1.78	0.49
4:A:151:VAL:HB	4:A:169:ALA:HB3	1.95	0.49
6:N:1177:ALA:CB	6:N:1183:ILE:HD11	2.43	0.49
6:D:959:GLU:HG3	6:D:1006:ALA:HB1	1.95	0.49
6:D:431:VAL:HG12	6:D:432:TYR:N	2.27	0.49
6:D:1303:TYR:O	6:D:1305:LEU:HD23	2.13	0.49
6:D:771:SER:CB	6:D:778:LEU:HD13	2.43	0.49
6:D:919:PHE:HE2	6:D:1212:ALA:H	1.60	0.49
6:D:729:HIS:HE2	6:D:935:LYS:HD3	1.78	0.49
5:M:160:ALA:HB3	5:M:174:LEU:HB2	1.95	0.49
5:M:174:LEU:HD22	5:M:193:LEU:HD21	1.95	0.49
5:M:206:THR:HG23	5:M:207:LEU:N	2.26	0.49
6:D:632:VAL:O	6:D:727:GLN:HA	2.12	0.49
5:C:1101:THR:HB	6:D:5:VAL:HG13	1.93	0.49
6:N:926:LYS:HG2	6:N:929:ARG:NH1	2.28	0.49
5:C:199:VAL:HG21	5:C:238:LEU:HD12	1.94	0.49
6:N:1385:GLY:HA3	10:N:8550:HOH:O	2.12	0.49
4:K:186:LEU:HB2	4:K:192:LEU:CD1	2.43	0.49
5:M:442:GLU:OE2	5:M:543:ASN:HB3	2.12	0.49
5:C:516:ARG:HE	6:D:1068:LEU:HD13	1.78	0.49
6:D:1098:LEU:HD11	6:D:1263:PHE:CE2	2.48	0.49
7:E:74:VAL:HB	7:E:79:LEU:HD21	1.95	0.49
6:D:553:ARG:O	6:D:557:LEU:HG	2.12	0.49
5:M:588:VAL:HG23	5:M:596:TYR:OH	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:669:GLY:HA3	5:M:995:MET:HA	1.93	0.49
6:N:455:ARG:CD	6:N:463:GLN:HG3	2.26	0.49
5:C:367:LEU:O	5:C:372:LEU:HD13	2.13	0.49
6:N:7:LYS:HA	6:N:1459:LEU:HD12	1.94	0.49
5:M:141:HIS:HD1	5:M:165:LEU:CD2	2.25	0.49
5:M:172:ILE:HD12	5:M:172:ILE:N	2.28	0.49
5:M:188:LYS:HD3	10:M:1448:HOH:O	2.12	0.49
5:M:358:ARG:NH2	5:M:374:ASN:HB3	2.27	0.49
5:M:21:ILE:HG23	5:M:335:THR:HG22	1.94	0.49
6:D:1380:GLU:OE2	6:D:1390:LEU:HD22	2.12	0.49
5:C:62:GLY:HA2	5:C:359:MET:HE3	1.94	0.49
5:M:131:GLY:N	10:M:1142:HOH:O	2.46	0.49
5:C:207:LEU:O	5:C:211:LEU:HB3	2.13	0.49
5:M:723:THR:HG23	5:M:725:ASP:HB2	1.94	0.49
6:D:472:ALA:HA	6:D:475:LYS:CD	2.43	0.49
6:N:1094:LEU:O	6:N:1098:LEU:HD13	2.12	0.49
6:N:1134:LEU:HD12	6:N:1135:ARG:N	2.28	0.49
5:C:681:GLY:O	6:D:633:VAL:HG21	2.13	0.49
4:K:76:VAL:HA	10:K:1194:HOH:O	2.12	0.49
6:D:1031:ASN:HB3	6:D:1034:GLN:HG3	1.94	0.49
5:C:117:HIS:HB2	5:C:379:GLU:OE2	2.13	0.49
4:L:105:GLY:O	4:L:132:LEU:HB3	2.11	0.49
6:N:827:ILE:N	6:N:827:ILE:HD12	2.28	0.49
4:B:128:HIS:HE1	4:B:131:THR:HG23	1.77	0.49
6:D:1271:LYS:NZ	6:D:1331:ASP:HB2	2.27	0.49
6:N:187:LYS:HG3	6:N:198:ARG:C	2.33	0.48
1:G:19:DC:OP1	5:C:1001:VAL:HB	2.12	0.48
6:D:584:ASN:CG	6:D:590:PRO:HD2	2.31	0.48
7:E:27:ALA:HB2	7:E:61:VAL:CG1	2.41	0.48
5:C:21:ILE:CG2	5:C:335:THR:HG22	2.43	0.48
6:N:1023:MET:O	6:N:1028:ALA:HB3	2.13	0.48
5:C:157:ARG:HD3	5:C:314:THR:HG21	1.95	0.48
6:D:54:LYS:HG2	6:D:57:GLU:OE1	2.13	0.48
6:D:1109:GLU:HG2	6:D:1202:GLN:H	1.77	0.48
5:M:708:TYR:HE1	5:M:827:VAL:HB	1.77	0.48
6:N:1111:ASP:OD1	6:N:1203:LYS:HD2	2.13	0.48
4:B:159:LYS:HA	10:B:412:HOH:O	2.12	0.48
4:L:169:ALA:HB1	4:L:171:PHE:CE2	2.48	0.48
6:D:660:LYS:HA	6:D:663:GLU:HG3	1.95	0.48
5:M:360:LEU:HB3	10:M:1478:HOH:O	2.12	0.48
5:M:288:ARG:HB3	10:M:1189:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1189:ARG:HB3	6:N:1204:CYS:HA	1.95	0.48
6:N:1472:ILE:HB	6:N:1474:ALA:O	2.12	0.48
6:N:137:PRO:HD2	6:N:453:ASP:OD1	2.12	0.48
5:M:1101:THR:O	5:M:1102:LEU:HD12	2.13	0.48
6:N:1441:GLN:NE2	6:N:1442:ASN:H	2.10	0.48
6:D:729:HIS:CE1	6:D:731:LEU:HB2	2.47	0.48
5:M:173:ASP:O	5:M:184:MET:HA	2.12	0.48
6:D:95:LEU:CA	6:D:551:ASN:HD21	2.19	0.48
5:M:45:GLN:NE2	5:M:49:ARG:NH1	2.60	0.48
5:M:52:PHE:O	5:M:54:ILE:N	2.46	0.48
5:C:771:GLU:HG3	10:C:1304:HOH:O	2.12	0.48
6:D:1465:ASN:HD21	6:D:1470:ARG:HB3	1.78	0.48
4:K:206:THR:HG22	4:K:209:GLU:CG	2.39	0.48
4:K:52:ALA:HB2	4:K:170:VAL:O	2.13	0.48
5:M:313:LEU:HB2	5:M:321:GLU:HG3	1.95	0.48
4:B:13:VAL:HG13	4:B:23:PHE:CE1	2.48	0.48
5:C:564:MET:HE1	5:C:997:LEU:HD21	1.95	0.48
4:K:111:ALA:O	4:K:114:PHE:HD1	1.96	0.48
4:K:124:ASN:OD1	4:K:127:LEU:HB2	2.13	0.48
5:C:41:ASN:O	5:C:46:ALA:HB2	2.13	0.48
6:D:969:ARG:HG3	6:D:970:LYS:N	2.28	0.48
6:D:975:GLU:HG2	10:D:8180:HOH:O	2.13	0.48
4:K:109:VAL:HG23	4:K:132:LEU:HD13	1.95	0.48
4:B:88:ARG:HB2	4:B:123:MET:SD	2.52	0.48
4:L:14:ARG:HH12	4:L:24:VAL:HG23	1.78	0.48
6:N:1084:THR:HG22	10:N:8690:HOH:O	2.13	0.48
5:M:775:ARG:NH1	5:M:782:ALA:HB1	2.28	0.48
6:D:1166:LEU:HD12	6:D:1171:VAL:HG22	1.95	0.48
6:N:862:ASP:HA	10:N:8726:HOH:O	2.11	0.48
5:C:816:LYS:HB2	5:C:819:VAL:CG2	2.43	0.48
5:C:555:ALA:HA	6:D:1070:TYR:OH	2.14	0.48
4:L:1:MET:O	4:L:6:LEU:HB2	2.14	0.48
6:N:169:TYR:HB3	6:N:195:VAL:HG11	1.94	0.48
6:D:619:LEU:O	6:D:620:GLY:O	2.31	0.48
6:D:1273:VAL:HG21	6:D:1305:LEU:CD2	2.43	0.48
10:D:8080:HOH:O	6:N:62:LYS:HE3	2.13	0.48
5:M:952:LEU:HB3	5:M:966:LEU:HD11	1.95	0.48
5:M:969:GLN:NE2	5:M:971:LYS:HD2	2.28	0.48
5:M:880:MET:C	5:M:881:ASN:HD22	2.17	0.48
5:M:129:ILE:CG1	5:M:386:PHE:HB3	2.42	0.48
6:D:615:ARG:HH22	6:D:1096:ARG:CD	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:607:LEU:HA	6:D:613:ARG:HB3	1.95	0.48
4:L:56:VAL:HG21	4:L:82:LEU:HD12	1.94	0.48
6:D:1381:VAL:HG13	10:D:8164:HOH:O	2.13	0.48
5:C:332:ARG:NH2	5:C:464:LEU:HD11	2.28	0.48
5:C:148:PHE:HZ	5:C:281:LEU:HD13	1.79	0.48
5:C:693:GLU:HB3	10:C:1258:HOH:O	2.12	0.48
5:M:711:GLU:CG	5:M:822:VAL:HG12	2.41	0.48
6:D:1122:LEU:O	6:D:1135:ARG:HB2	2.13	0.48
6:N:558:LEU:HD13	10:N:8107:HOH:O	2.12	0.48
4:L:23:PHE:CE2	4:L:199:ILE:HD12	2.48	0.48
6:N:160:GLU:O	6:N:164:GLY:O	2.32	0.48
6:N:114:THR:HG22	6:N:495:ARG:HA	1.95	0.48
6:D:722:GLU:HB2	10:D:8618:HOH:O	2.12	0.48
5:C:835:VAL:HA	5:C:849:VAL:HG12	1.95	0.48
6:D:762:GLN:HA	10:D:8115:HOH:O	2.12	0.48
5:C:493:ARG:HB3	10:C:1519:HOH:O	2.12	0.48
5:M:168:ARG:HG2	10:M:1252:HOH:O	2.13	0.48
5:M:778:PHE:HZ	10:M:1691:HOH:O	1.97	0.48
5:M:1031:ARG:NH2	6:N:621:LYS:HG3	2.28	0.48
7:O:41:GLU:HG2	7:O:42:PRO:N	2.28	0.48
7:E:36:LYS:HZ1	7:E:45:ARG:HH22	1.61	0.48
4:A:35:THR:HG23	4:B:39:PRO:HA	1.94	0.48
5:C:358:ARG:HB3	5:C:371:LYS:O	2.14	0.48
6:N:13:ALA:O	6:N:511:TRP:HB3	2.14	0.48
1:G:18:DG:C2'	1:G:19:DC:H5'	2.34	0.48
3:I:4:DC:H2''	3:I:5:DG:O5'	2.12	0.48
3:Z:4:DC:H2''	3:Z:5:DG:O5'	2.14	0.48
5:C:437:ARG:HG2	5:C:467:ILE:O	2.11	0.48
5:M:131:GLY:N	10:M:1145:HOH:O	2.46	0.48
5:M:607:ASP:HB3	5:M:610:ARG:N	2.23	0.48
4:A:175:ARG:NE	10:A:321:HOH:O	2.46	0.48
6:N:403:PHE:HD1	6:N:405:ASP:O	1.96	0.48
6:N:783:ARG:HE	6:N:1029:ARG:CG	2.21	0.48
6:N:787:LEU:HD11	10:N:8633:HOH:O	2.13	0.48
5:C:261:ILE:H	5:C:261:ILE:CD1	2.17	0.48
5:C:603:VAL:HA	5:C:613:VAL:HG12	1.96	0.48
1:X:6:DT:H2''	1:X:7:DC:C5	2.47	0.48
6:D:1112:CYS:CB	6:D:1195:GLN:HG2	2.42	0.48
4:K:111:ALA:HB3	4:K:124:ASN:O	2.13	0.48
6:D:1109:GLU:OE1	6:D:1201:CYS:HB2	2.14	0.48
4:A:25:LEU:HD13	4:B:225:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:798:GLY:H	5:M:827:VAL:HG13	1.77	0.48
5:C:793:PRO:HD2	10:C:1750:HOH:O	2.13	0.48
5:M:693:GLU:HA	5:M:696:LYS:HG3	1.96	0.48
10:N:8623:HOH:O	7:O:39:VAL:HG11	2.12	0.48
6:N:1015:TYR:HB3	10:N:8352:HOH:O	2.13	0.48
6:D:206:ARG:HE	6:D:394:LEU:HD13	1.77	0.48
6:D:706:PRO:HA	10:D:8675:HOH:O	2.13	0.48
6:D:1281:VAL:HG12	6:D:1314:LYS:O	2.13	0.48
2:Y:15:C:H2'	2:Y:16:G:C8	2.48	0.48
6:N:141:ILE:HG22	6:N:161:LEU:HD12	1.96	0.48
6:D:710:ARG:HG3	6:D:711:LEU:HD23	1.94	0.48
1:G:18:DG:H5'	1:G:18:DG:C8	2.47	0.48
6:N:1061:PHE:HE1	6:N:1065:LEU:HD22	1.77	0.48
6:D:1440:PHE:O	6:D:1441:GLN:O	2.32	0.48
7:O:32:ARG:HB2	7:O:32:ARG:NH1	2.28	0.48
4:A:24:VAL:HG13	4:A:196:THR:HG22	1.94	0.48
5:C:304:LEU:CD2	5:C:305:PRO:HD3	2.41	0.48
5:C:470:PRO:HD3	5:C:485:TYR:CE2	2.48	0.48
6:D:1261:GLU:O	6:D:1264:GLU:O	2.30	0.48
5:C:21:ILE:HG22	5:C:335:THR:HG22	1.94	0.48
5:M:195:LEU:HD12	5:M:195:LEU:O	2.13	0.48
6:N:1372:VAL:HA	6:N:1375:MET:HG3	1.95	0.48
6:D:1147:ARG:O	6:D:1165:TYR:HA	2.12	0.48
5:C:906:PHE:CE1	6:D:1067:VAL:HG13	2.49	0.48
6:D:72:VAL:HG23	6:D:77:GLY:HA2	1.95	0.48
6:N:562:ALA:HB1	6:N:567:ILE:HD11	1.94	0.48
4:L:24:VAL:HG13	4:L:196:THR:HG22	1.95	0.48
6:D:546:ARG:HA	6:D:550:ARG:NH2	2.29	0.48
5:M:242:LEU:HB3	10:M:1563:HOH:O	2.12	0.48
3:I:9:DG:H2''	3:I:10:DA:C8	2.49	0.48
5:C:393:GLN:HE21	5:C:406:HIS:CE1	2.32	0.48
4:B:64:GLU:HA	4:B:165:ILE:HD13	1.95	0.48
5:M:79:PRO:HG2	5:M:82:GLU:HB2	1.95	0.48
4:B:16:GLN:HE21	4:B:16:GLN:HA	1.79	0.48
6:N:1450:ALA:HA	10:N:8116:HOH:O	2.12	0.48
6:D:135:LEU:HD11	6:D:452:ILE:CD1	2.40	0.48
6:D:199:LEU:CD2	6:D:397:LYS:HG3	2.44	0.48
6:D:161:LEU:HG	6:D:449:SER:OG	2.14	0.48
6:N:50:PHE:CB	6:N:522:PRO:HG2	2.43	0.48
10:A:333:HOH:O	4:B:39:PRO:HG3	2.13	0.48
5:C:939:ARG:HB3	5:C:982:PRO:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:41:ARG:HD3	6:D:42:ASP:H	1.78	0.48
6:D:606:ILE:O	6:D:613:ARG:HB2	2.14	0.48
5:M:18:LEU:HG	5:M:408:ARG:NH1	2.28	0.48
5:M:19:THR:HG23	5:M:407:LYS:HE3	1.96	0.48
4:A:174:VAL:HG13	4:A:200:TRP:O	2.14	0.48
5:C:862:PRO:HD3	5:C:973:VAL:O	2.14	0.48
5:C:318:PRO:HA	10:C:1734:HOH:O	2.14	0.48
5:C:441:VAL:O	5:C:559:LEU:HG	2.12	0.48
6:N:118:LEU:O	6:N:120:ALA:N	2.47	0.48
5:M:292:ARG:HD2	5:M:299:LYS:CG	2.43	0.48
5:C:182:VAL:CG1	5:C:193:LEU:HD22	2.43	0.48
5:M:241:LEU:HA	10:M:1280:HOH:O	2.13	0.48
5:C:564:MET:HE3	5:C:997:LEU:HD21	1.95	0.48
6:N:481:MET:HE3	6:N:493:ARG:HA	1.94	0.48
5:C:900:ARG:HG3	5:C:900:ARG:HH11	1.77	0.48
5:M:726:ILE:HD13	5:M:734:LEU:CD1	2.43	0.48
4:A:44:LEU:HA	4:A:48:ILE:HD11	1.95	0.48
5:M:136:ILE:HG21	5:M:336:VAL:HG13	1.95	0.48
6:D:827:ILE:HD12	6:D:827:ILE:N	2.28	0.48
6:N:953:ASP:O	6:N:955:VAL:HG23	2.14	0.48
4:B:72:LYS:HD2	10:B:454:HOH:O	2.12	0.48
6:D:556:LYS:O	6:D:560:GLN:HG3	2.13	0.48
6:N:418:GLY:O	6:N:428:LYS:HD2	2.12	0.48
5:C:1059:ASP:OD2	5:C:1079:PRO:HA	2.14	0.48
6:D:407:VAL:HG23	10:D:8405:HOH:O	2.13	0.48
6:N:1353:GLN:O	6:N:1357:ARG:HG3	2.12	0.48
6:N:52:PRO:CG	6:N:80:VAL:HG22	2.43	0.48
6:N:62:LYS:HB2	6:N:73:CYS:SG	2.53	0.48
1:X:18:DG:C2'	1:X:19:DC:H5'	2.33	0.48
5:M:194:VAL:HG21	5:M:221:LEU:HA	1.96	0.48
5:M:8:ARG:N	5:M:907:ASP:OD2	2.46	0.48
6:D:520:LEU:HD11	6:D:524:LEU:HD22	1.95	0.48
6:D:507:ASN:HD22	6:D:507:ASN:N	1.94	0.48
4:K:178:ALA:HB3	4:K:198:ARG:CG	2.38	0.48
6:N:860:LEU:HB2	10:N:8030:HOH:O	2.14	0.48
4:B:24:VAL:HG22	4:B:196:THR:HG22	1.96	0.48
5:C:892:LEU:HD21	5:C:967:PHE:CE1	2.48	0.48
5:M:851:LYS:HG2	5:M:853:LEU:CD1	2.40	0.48
6:D:996:TRP:O	6:D:999:THR:HG22	2.13	0.48
6:N:764:LEU:HD23	6:N:767:HIS:CD2	2.49	0.48
5:M:771:GLU:O	5:M:771:GLU:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:98:LEU:H	5:C:98:LEU:HD12	1.77	0.48
5:M:259:GLY:O	5:M:290:LEU:O	2.32	0.48
5:C:946:ARG:HD2	10:C:1379:HOH:O	2.13	0.48
6:D:650:LEU:HD22	6:D:688:TRP:CZ3	2.49	0.48
6:N:853:VAL:HG22	6:N:858:VAL:HG23	1.96	0.48
5:C:612:VAL:HG13	5:C:621:VAL:C	2.34	0.48
5:C:690:ILE:HD12	5:C:833:LEU:HD23	1.96	0.48
6:D:761:ILE:O	6:D:767:HIS:HD2	1.96	0.48
4:L:161:ARG:HH11	4:L:161:ARG:HG3	1.79	0.48
5:M:57:GLU:O	5:M:62:GLY:HA3	2.14	0.48
6:D:134:VAL:HA	6:D:152:LEU:HA	1.94	0.48
6:D:165:LYS:CA	6:D:397:LYS:H	2.25	0.48
5:M:1032:PHE:O	5:M:1033:GLY:O	2.31	0.48
6:N:700:VAL:CG2	6:N:718:PRO:HG3	2.42	0.48
5:M:939:ARG:CA	5:M:939:ARG:NE	2.73	0.48
10:C:1217:HOH:O	6:D:606:ILE:HD12	2.13	0.48
4:L:80:LEU:HD12	4:L:83:LYS:HZ2	1.78	0.48
5:M:367:LEU:O	5:M:371:LYS:HB3	2.14	0.48
5:C:1086:ARG:HD3	5:C:1112:PHE:CD2	2.48	0.48
6:D:1061:PHE:HE1	6:D:1065:LEU:HD22	1.79	0.48
6:D:185:VAL:HG22	6:D:189:GLN:OE1	2.13	0.48
5:M:195:LEU:CD2	5:M:238:LEU:HG	2.44	0.48
5:M:342:ASP:HA	5:M:345:ARG:HD3	1.96	0.48
5:C:728:HIS:NE2	5:C:775:ARG:NH1	2.62	0.48
4:L:73:GLU:HB3	4:L:77:GLU:HG2	1.96	0.48
6:N:1234:THR:HG21	10:N:8087:HOH:O	2.14	0.48
5:C:592:LEU:HD23	10:C:1395:HOH:O	2.13	0.48
5:M:638:ASP:OD2	5:M:640:ARG:NE	2.46	0.48
6:D:704:ARG:HH12	6:D:743:ASP:HB3	1.78	0.48
7:E:36:LYS:HZ1	7:E:45:ARG:NH2	2.12	0.48
6:D:1209:LEU:HD21	7:E:16:LYS:HZ1	1.77	0.48
6:N:5:VAL:O	6:N:1470:ARG:HD2	2.13	0.48
1:G:19:DC:H5"	5:C:1001:VAL:HG23	1.96	0.48
1:G:18:DG:C4'	5:C:1002:GLU:HB3	2.44	0.48
6:D:1441:GLN:HE21	6:D:1446:VAL:HG23	1.79	0.48
6:D:551:ASN:O	6:D:555:LYS:HG3	2.14	0.48
5:C:1111:ILE:HG13	5:C:1112:PHE:H	1.77	0.48
6:N:794:GLN:NE2	6:N:905:PRO:HG2	2.29	0.48
6:N:1037:GLN:HB3	6:N:1042:ARG:HD2	1.96	0.48
5:C:571:LEU:HD23	5:C:670:GLN:HG2	1.96	0.48
10:A:321:HOH:O	5:C:866:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:726:ILE:HD13	5:C:734:LEU:CD1	2.44	0.48
5:C:21:ILE:HG22	10:C:1336:HOH:O	2.12	0.48
5:C:897:LEU:HB3	5:C:899:GLN:NE2	2.28	0.48
5:C:897:LEU:HD21	5:C:921:ALA:HA	1.95	0.48
7:O:67:GLU:HB3	7:O:73:LEU:CD1	2.44	0.48
5:C:705:ILE:HA	5:C:827:VAL:O	2.14	0.48
6:D:1431:THR:OG1	6:D:1432:LYS:N	2.47	0.48
5:C:523:ILE:HG23	5:C:523:ILE:O	2.13	0.48
6:D:679:ARG:HB2	6:D:682:ASP:OD1	2.13	0.48
5:M:516:ARG:CD	6:N:1068:LEU:HD13	2.44	0.48
5:C:987:ILE:HG23	6:D:948:THR:HG21	1.96	0.48
5:M:573:ARG:HD3	5:M:698:ASP:O	2.13	0.48
4:A:104:GLU:HG3	10:A:426:HOH:O	2.13	0.48
5:M:1055:LEU:HD13	5:M:1066:ALA:HB2	1.95	0.48
5:C:669:GLY:HA3	5:C:995:MET:HA	1.95	0.48
6:D:99:ALA:O	6:D:514:LEU:HB2	2.14	0.48
6:N:1376:MET:CE	6:N:1421:LEU:HD13	2.44	0.48
6:D:618:LEU:HD11	6:D:1463:LYS:CG	2.43	0.48
5:M:1056:LYS:CE	6:N:751:LEU:HG	2.44	0.48
4:K:94:LEU:HD11	4:K:119:ASP:CB	2.44	0.48
5:M:7:GLY:HA3	5:M:904:PRO:HG2	1.94	0.48
7:O:21:VAL:HG12	7:O:25:LYS:HD2	1.95	0.48
4:L:111:ALA:HB3	4:L:124:ASN:O	2.13	0.48
5:M:479:VAL:HG22	5:M:506:ASN:HA	1.95	0.48
5:C:579:VAL:CG1	5:C:887:GLU:HG3	2.38	0.48
4:K:198:ARG:NH2	5:M:934:PHE:HE1	2.12	0.48
4:K:217:ILE:HG23	10:K:3058:HOH:O	2.14	0.48
5:M:292:ARG:NH1	5:M:299:LYS:HD3	2.29	0.48
4:L:62:LEU:HD12	4:L:63:HIS:H	1.79	0.48
6:N:762:GLN:NE2	7:O:20:THR:HG21	2.29	0.48
6:N:1290:LEU:HD22	10:N:8169:HOH:O	2.13	0.48
5:M:1078:GLU:HA	5:M:1078:GLU:OE1	2.14	0.48
6:D:170:PRO:HA	6:D:392:SER:HB3	1.95	0.48
10:B:385:HOH:O	6:D:847:ASP:HB3	2.13	0.48
6:D:133:ILE:HG21	10:D:8571:HOH:O	2.13	0.47
6:D:705:ALA:CB	6:D:706:PRO:HD3	2.44	0.47
6:D:1274:ILE:HG13	6:D:1334:GLN:NE2	2.29	0.47
2:Y:7:G:H2'	2:Y:8:C:OP1	2.14	0.47
6:D:1476:THR:CG2	7:E:21:VAL:HG22	2.44	0.47
5:C:352:ALA:HA	5:C:355:VAL:CG1	2.44	0.47
6:N:701:LEU:HD13	6:N:748:HIS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:937:TYR:HB3	6:N:941:PHE:CE1	2.48	0.47
5:C:198:ARG:NH1	5:C:203:ASP:HA	2.29	0.47
4:B:18:ARG:O	4:B:207:PRO:HD3	2.14	0.47
4:A:96:THR:HG22	10:A:392:HOH:O	2.14	0.47
6:N:1123:PHE:CD1	6:N:1134:LEU:HA	2.48	0.47
1:G:6:DT:H2'	1:G:7:DC:C5	2.49	0.47
6:D:916:TYR:HH	6:D:1145:TYR:HE2	1.60	0.47
5:C:45:GLN:HB2	5:C:71:TYR:CE2	2.48	0.47
5:M:496:ILE:HG13	5:M:531:PHE:HB2	1.95	0.47
5:C:717:LEU:HD12	10:C:1225:HOH:O	2.14	0.47
4:L:103:ALA:HB1	4:L:107:LYS:HE2	1.96	0.47
5:M:40:GLU:HA	10:M:1132:HOH:O	2.13	0.47
6:D:414:ARG:N	6:D:414:ARG:HD2	2.29	0.47
4:K:117:VAL:CB	4:K:120:VAL:HG12	2.32	0.47
5:M:190:LYS:N	5:M:190:LYS:HD2	2.17	0.47
5:M:93:PRO:HB3	10:M:1450:HOH:O	2.14	0.47
5:C:1084:SER:HA	5:C:1087:VAL:HG12	1.94	0.47
6:D:525:ARG:HB2	6:D:538:SER:CB	2.39	0.47
6:N:907:GLU:O	6:N:911:LEU:HD12	2.13	0.47
6:N:882:PHE:HE1	6:N:934:LEU:HD21	1.78	0.47
7:O:54:LEU:HD21	10:O:2990:HOH:O	2.14	0.47
6:D:1468:LEU:HD22	6:D:1470:ARG:CB	2.44	0.47
5:C:203:ASP:O	5:C:207:LEU:HB2	2.14	0.47
5:M:578:VAL:N	5:M:671:ASN:HD21	2.11	0.47
6:D:799:LYS:CB	6:D:826:PRO:HG2	2.39	0.47
6:N:415:VAL:HG13	6:N:419:ASP:CB	2.42	0.47
5:C:723:THR:HG23	5:C:725:ASP:H	1.78	0.47
6:D:107:ASP:O	6:D:108:VAL:C	2.52	0.47
5:M:653:ASP:OD1	5:M:654:LEU:HD23	2.14	0.47
6:N:462:GLN:O	6:N:466:LYS:HG3	2.14	0.47
6:N:445:ARG:HG2	6:N:445:ARG:HH11	1.79	0.47
5:M:443:THR:O	5:M:559:LEU:HD21	2.13	0.47
6:N:531:ASP:C	6:N:533:GLY:H	2.18	0.47
6:D:495:ARG:O	6:D:499:VAL:HG23	2.14	0.47
5:M:998:TYR:HE2	5:M:1000:MET:HG3	1.78	0.47
4:B:14:ARG:NH1	4:B:14:ARG:HG3	2.29	0.47
10:D:8587:HOH:O	6:N:53:ILE:HG21	2.14	0.47
4:L:91:ASN:ND2	10:L:413:HOH:O	2.41	0.47
6:D:669:ASN:O	6:D:672:ALA:HB3	2.14	0.47
5:C:540:PHE:CE1	5:C:550:LEU:HD23	2.49	0.47
6:D:414:ARG:HG2	6:D:451:ASP:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1284:GLU:HG2	6:N:75:ARG:NH2	2.28	0.47
6:N:199:LEU:HD23	6:N:200:ASP:O	2.14	0.47
6:D:710:ARG:CZ	6:D:1210:SER:OG	2.62	0.47
6:D:1211:MET:HG2	6:D:1212:ALA:N	2.29	0.47
1:G:17:DC:H4'	6:D:628:ARG:CD	2.45	0.47
5:M:549:PHE:CD1	5:M:886:LEU:HD23	2.49	0.47
4:K:143:ARG:HG3	4:K:144:VAL:N	2.28	0.47
5:C:1103:ASP:HB3	5:C:1105:LYS:NZ	2.29	0.47
5:C:137:VAL:HG23	5:C:391:LEU:HG	1.97	0.47
5:C:579:VAL:HB	5:C:890:LEU:HD22	1.96	0.47
6:D:1128:VAL:HG11	10:D:8063:HOH:O	2.13	0.47
5:C:86:LYS:HD3	5:C:813:VAL:CA	2.43	0.47
6:N:1026:SER:C	6:N:1028:ALA:H	2.16	0.47
6:D:996:TRP:CA	6:D:999:THR:HG22	2.42	0.47
5:M:137:VAL:HG23	5:M:391:LEU:HG	1.96	0.47
5:C:725:ASP:O	5:C:727:PRO:HD3	2.14	0.47
5:C:10:ARG:HA	5:C:10:ARG:HD3	1.70	0.47
5:C:7:GLY:O	5:C:8:ARG:HD2	2.14	0.47
4:K:1:MET:O	4:K:6:LEU:HB2	2.14	0.47
6:N:1279:GLY:O	6:N:1318:TYR:HA	2.14	0.47
6:D:1491:THR:HG22	6:D:1495:ILE:HD13	1.96	0.47
6:N:1194:CYS:HB3	6:N:1373:ARG:HH12	1.79	0.47
2:H:15:C:H2'	2:H:16:G:C8	2.50	0.47
2:Y:16:G:H4'	6:N:743:ASP:HA	1.95	0.47
5:M:1115:LEU:HD23	6:N:85:VAL:HA	1.95	0.47
5:C:100:LEU:HD22	5:C:372:LEU:CD2	2.44	0.47
6:D:724:GLN:HB2	10:D:8650:HOH:O	2.15	0.47
5:M:304:LEU:CD1	5:M:308:ARG:HH21	2.27	0.47
6:D:62:LYS:HE2	6:D:62:LYS:HA	1.96	0.47
6:N:789:LEU:HD13	6:N:911:LEU:HD21	1.96	0.47
5:C:302:VAL:HG12	10:C:1477:HOH:O	2.13	0.47
6:D:513:ILE:O	6:D:513:ILE:HD12	2.15	0.47
6:N:427:VAL:HG11	10:N:8493:HOH:O	2.14	0.47
5:M:577:PRO:HG3	5:M:993:PHE:CE1	2.49	0.47
5:C:289:THR:O	5:C:291:ALA:N	2.48	0.47
5:C:146:VAL:HG22	5:C:162:ILE:HA	1.96	0.47
5:M:727:PRO:HG3	5:M:783:ARG:HH21	1.79	0.47
5:C:946:ARG:HD3	5:C:984:GLU:HB2	1.97	0.47
5:C:499:ALA:HA	5:C:532:MET:HE2	1.96	0.47
6:D:1405:GLU:HG2	10:D:8426:HOH:O	2.14	0.47
5:M:435:TYR:HA	6:N:1071:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:29:ALA:HB2	5:C:337:GLY:CA	2.45	0.47
2:H:7:G:H2'	2:H:8:C:OP1	2.14	0.47
6:D:1283:ILE:HD12	6:D:1315:ASP:OD2	2.13	0.47
6:N:127:LEU:HA	6:N:132:TYR:HD1	1.80	0.47
6:N:111:LYS:HG2	6:N:1452:ILE:CD1	2.44	0.47
1:X:19:DC:H5"	5:M:1001:VAL:HG21	1.95	0.47
5:C:479:VAL:HG22	5:C:506:ASN:HA	1.96	0.47
6:D:1231:GLU:HB3	6:D:1232:PRO:HD3	1.97	0.47
7:O:32:ARG:HB2	7:O:32:ARG:CZ	2.45	0.47
5:M:54:ILE:O	5:M:54:ILE:HG23	2.14	0.47
5:C:774:LEU:HD11	10:C:1610:HOH:O	2.15	0.47
5:M:25:SER:HB2	5:M:335:THR:HB	1.97	0.47
6:N:882:PHE:HA	6:N:885:ILE:HD12	1.97	0.47
7:O:54:LEU:HA	7:O:58:PRO:CG	2.43	0.47
6:N:868:TYR:CE2	6:N:880:ILE:HD11	2.50	0.47
5:C:12:VAL:HG12	5:C:534:VAL:HG13	1.97	0.47
6:N:1293:PHE:CE2	6:N:1302:GLU:HA	2.50	0.47
6:D:869:MET:SD	6:D:894:LYS:HE3	2.55	0.47
6:N:129:PHE:HE1	10:N:8409:HOH:O	1.97	0.47
6:N:567:ILE:HG22	6:N:571:LYS:HE3	1.97	0.47
5:M:41:ASN:O	5:M:46:ALA:HB2	2.14	0.47
6:N:897:TRP:HA	6:N:900:ILE:HG12	1.97	0.47
5:M:808:ARG:HB3	10:M:1679:HOH:O	2.13	0.47
5:M:937:ASP:HB3	5:M:940:GLU:H	1.80	0.47
6:D:12:LEU:HD23	6:D:12:LEU:HA	1.68	0.47
6:N:1496:GLU:O	6:N:1500:LYS:HG3	2.15	0.47
6:N:1374:GLN:OE1	6:N:1377:LYS:HD3	2.14	0.47
5:C:1019:GLN:HG3	6:D:616:GLN:HE22	1.78	0.47
6:D:736:PHE:O	6:D:738:ALA:N	2.47	0.47
6:N:525:ARG:HG2	6:N:525:ARG:O	2.14	0.47
5:M:861:LEU:HD23	5:M:863:ASP:N	2.25	0.47
5:M:952:LEU:HB3	5:M:966:LEU:CD1	2.44	0.47
5:C:292:ARG:HB2	5:C:299:LYS:HG2	1.96	0.47
4:B:83:LYS:HE2	4:B:168:ASP:CB	2.35	0.47
6:N:1209:LEU:HD11	7:O:16:LYS:HD2	1.96	0.47
5:C:670:GLN:NE2	5:C:699:PHE:O	2.47	0.47
5:M:752:GLY:N	5:M:792:VAL:HB	2.24	0.47
6:D:1122:LEU:HD11	6:D:1186:VAL:CG2	2.43	0.47
6:D:1127:GLU:HB2	6:D:1133:ARG:CZ	2.44	0.47
4:K:49:PRO:CB	4:K:148:VAL:HG22	2.43	0.47
6:N:1493:LYS:HA	6:N:1493:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:52:ALA:HB1	4:L:170:VAL:H	1.80	0.47
5:M:497:ALA:HA	5:M:515:ALA:HA	1.95	0.47
6:D:859:ASP:HA	10:D:8297:HOH:O	2.13	0.47
6:N:646:LYS:HD2	6:N:688:TRP:CE2	2.49	0.47
5:M:97:ARG:HA	5:M:111:ASP:O	2.15	0.47
6:D:163:TYR:CD1	6:D:166:GLN:HB2	2.49	0.47
2:H:1:G:H4'	2:H:2:A:OP1	2.15	0.47
6:D:618:LEU:HD12	6:D:1467:ILE:HD11	1.97	0.47
6:D:618:LEU:HB3	6:D:619:LEU:HD23	1.95	0.47
6:D:1278:ASP:HB3	6:D:1321:ALA:N	2.29	0.47
6:N:78:VAL:HG12	6:N:80:VAL:HG22	1.97	0.47
2:Y:7:G:H8	2:Y:7:G:O5'	1.98	0.47
6:D:1293:PHE:CE1	6:D:1302:GLU:HA	2.49	0.47
4:A:39:PRO:HG2	4:B:39:PRO:HG3	1.96	0.47
6:N:133:ILE:HA	6:N:456:MET:CB	2.43	0.47
6:N:1442:ASN:OD1	6:N:1444:THR:HB	2.15	0.47
5:M:943:VAL:HG11	5:M:973:VAL:CG1	2.45	0.47
5:C:1016:ILE:HG12	5:C:1017:THR:N	2.30	0.47
6:D:46:ASP:O	6:D:50:PHE:HD1	1.98	0.47
1:X:18:DG:C5'	6:N:628:ARG:NH2	2.75	0.47
5:M:879:ARG:HG3	5:M:879:ARG:HH11	1.78	0.47
5:M:880:MET:HE1	10:M:1536:HOH:O	2.15	0.47
6:N:956:ILE:HD12	10:N:8184:HOH:O	2.15	0.47
6:N:32:ILE:HG12	6:N:38:LYS:C	2.34	0.47
5:M:172:ILE:HA	5:M:185:LYS:O	2.14	0.47
5:C:474:VAL:HG23	5:C:478:VAL:O	2.15	0.47
5:C:1084:SER:HA	10:C:1513:HOH:O	2.14	0.47
6:D:1443:THR:O	6:D:1447:LEU:HD13	2.15	0.47
6:D:571:LYS:O	6:D:574:LEU:HB3	2.15	0.47
6:D:1104:GLU:HA	6:D:1461:GLY:HA2	1.97	0.47
4:A:23:PHE:O	4:A:196:THR:HA	2.15	0.47
5:C:929:ARG:HG3	10:C:1721:HOH:O	2.15	0.47
5:M:31:GLN:NE2	5:M:71:TYR:OH	2.47	0.47
7:O:47:LYS:HE2	10:O:3033:HOH:O	2.13	0.47
5:C:440:PRO:HA	6:D:1078:ARG:HH21	1.80	0.47
4:K:197:LEU:HG	4:K:197:LEU:O	2.14	0.47
5:C:905:ILE:N	5:C:905:ILE:CD1	2.78	0.47
5:C:12:VAL:HG13	5:C:13:ILE:HG23	1.97	0.47
5:C:62:GLY:HA2	5:C:359:MET:CE	2.43	0.47
5:C:18:LEU:HD23	5:C:542:VAL:HG21	1.97	0.47
6:N:974:ILE:HG23	10:N:8327:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:625:LEU:O	5:M:627:ARG:N	2.48	0.47
6:N:1281:VAL:HG11	6:N:1313:VAL:CG1	2.44	0.47
5:C:762:LYS:NZ	5:C:786:LYS:HG3	2.30	0.47
6:D:1144:LEU:HD11	6:D:1186:VAL:HG21	1.96	0.47
6:D:1289:LYS:HB2	10:D:8303:HOH:O	2.15	0.47
6:D:1407:LEU:HB3	5:M:361:MET:HE3	1.96	0.47
5:M:600:ASP:OD1	5:M:650:ARG:HA	2.15	0.47
7:E:54:LEU:HA	7:E:58:PRO:CG	2.44	0.47
4:B:92:PRO:HA	4:B:146:ARG:HH12	1.77	0.47
4:K:173:PRO:HB2	4:K:205:VAL:HG22	1.97	0.47
4:A:95:GLN:HG2	10:A:330:HOH:O	2.15	0.47
5:M:838:LYS:HZ2	5:M:846:LYS:HZ1	1.61	0.47
4:B:102:LYS:HB2	4:B:139:ASN:OD1	2.15	0.47
5:C:143:SER:HB2	5:C:276:LYS:HZ1	1.79	0.47
5:C:650:ARG:HG2	5:C:653:ASP:HB2	1.96	0.47
5:C:950:LEU:HB3	5:C:952:LEU:HD23	1.95	0.47
6:D:1395:LEU:HD11	10:D:8632:HOH:O	2.14	0.47
6:D:820:GLU:HG2	6:D:825:ALA:O	2.15	0.47
6:N:71:LYS:HD2	10:N:8451:HOH:O	2.15	0.47
5:C:715:THR:HG23	10:C:1212:HOH:O	2.14	0.47
5:C:720:GLU:HG3	10:C:1212:HOH:O	2.15	0.47
6:D:1409:ALA:HA	5:M:370:ALA:HB1	1.95	0.47
5:M:717:LEU:HD21	5:M:764:GLU:O	2.15	0.47
5:C:480:THR:HG22	5:C:481:ASP:H	1.79	0.47
6:D:1449:GLU:HB2	10:D:8049:HOH:O	2.14	0.47
10:X:3279:HOH:O	6:N:485:SER:HB3	2.14	0.47
6:N:1380:GLU:O	6:N:1417:TRP:HB2	2.15	0.47
5:C:322:VAL:HG22	10:C:1178:HOH:O	2.13	0.47
5:M:911:GLU:HB3	5:M:912:PRO:HD3	1.96	0.47
6:N:1261:GLU:OE2	6:N:1268:PRO:HG3	2.14	0.47
5:C:732:ALA:HB3	10:D:8135:HOH:O	2.14	0.47
5:M:1069:ALA:HA	10:M:1159:HOH:O	2.15	0.47
6:D:396:VAL:HB	6:D:447:VAL:HG12	1.96	0.47
4:B:27:PRO:O	4:B:28:LEU:HD23	2.15	0.47
6:D:785:ILE:HG22	6:D:789:LEU:CD1	2.45	0.47
4:K:94:LEU:C	10:K:3286:HOH:O	2.52	0.47
5:M:129:ILE:HG22	5:M:130:ASN:N	2.29	0.47
5:M:129:ILE:HB	5:M:134:ARG:HD2	1.97	0.47
6:D:787:LEU:HD11	6:D:947:ILE:HG12	1.96	0.47
6:N:917:GLN:CA	6:N:920:LEU:HD12	2.38	0.47
7:O:27:ALA:HB3	7:O:61:VAL:HG12	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:849:ALA:O	6:D:853:VAL:HG23	2.15	0.47
6:D:788:GLY:HA2	10:D:8083:HOH:O	2.14	0.47
4:B:84:GLU:O	4:B:84:GLU:HG3	2.15	0.47
6:N:107:ASP:O	6:N:108:VAL:C	2.53	0.47
5:C:139:GLN:HE22	5:C:415:PRO:HD2	1.80	0.47
5:M:292:ARG:HH11	5:M:299:LYS:HD3	1.80	0.47
6:D:1144:LEU:HA	6:D:1147:ARG:HG3	1.97	0.47
6:D:1112:CYS:SG	6:D:1195:GLN:HG2	2.55	0.47
5:C:276:LYS:O	5:C:280:LYS:HB2	2.15	0.47
5:C:223:ASP:OD2	5:C:224:GLU:HG2	2.15	0.47
5:M:289:THR:O	5:M:291:ALA:N	2.48	0.47
6:N:154:THR:HG21	6:N:157:GLU:OE2	2.15	0.47
6:D:914:LEU:O	6:D:914:LEU:HD23	2.15	0.47
5:C:19:THR:O	5:C:23:VAL:HG23	2.14	0.47
6:D:398:ALA:HB2	6:D:447:VAL:CG1	2.43	0.47
6:D:619:LEU:HD12	6:D:621:LYS:HZ3	1.79	0.47
6:N:456:MET:CA	6:N:460:ALA:HB2	2.30	0.47
6:D:1209:LEU:HD21	7:E:16:LYS:HZ2	1.77	0.47
5:M:975:TYR:HA	5:M:982:PRO:HA	1.96	0.47
5:M:876:VAL:O	5:M:879:ARG:O	2.33	0.47
5:M:122:THR:HG22	5:M:123:GLU:N	2.29	0.47
6:D:1465:ASN:OD1	6:D:1473:PRO:HG3	2.15	0.47
5:C:610:ARG:HH11	5:C:610:ARG:HG3	1.80	0.47
5:M:135:VAL:HG13	10:M:1208:HOH:O	2.14	0.47
4:A:58:ILE:HD13	4:A:140:MET:HB3	1.97	0.47
6:N:984:THR:CG2	6:N:987:GLU:H	2.27	0.47
6:N:731:LEU:HD22	6:N:779:ALA:O	2.15	0.47
4:A:5:LYS:O	4:A:8:ALA:HB2	2.15	0.47
5:C:379:GLU:OE1	5:C:379:GLU:HA	2.15	0.47
6:D:36:THR:O	6:D:38:LYS:N	2.47	0.47
5:C:266:ARG:HA	5:C:288:ARG:HD3	1.96	0.47
6:D:1087:ARG:HG2	6:D:1087:ARG:HH11	1.80	0.47
5:C:775:ARG:HD2	5:C:782:ALA:CB	2.45	0.47
4:L:161:ARG:HG3	4:L:161:ARG:NH1	2.29	0.47
6:D:1187:PRO:HB3	6:N:560:GLN:NE2	2.30	0.47
10:Y:728:HOH:O	6:N:598:ARG:HD2	2.14	0.47
4:K:183:ASP:CG	5:M:938:LYS:HD2	2.36	0.47
4:A:153:ALA:HA	4:A:156:HIS:NE2	2.29	0.47
6:D:1115:THR:CG2	6:D:1151:ARG:HH21	2.27	0.47
5:C:719:PRO:HG3	10:C:1637:HOH:O	2.14	0.47
6:N:538:SER:O	6:N:540:LEU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1475:GLY:HA2	10:D:8015:HOH:O	2.14	0.47
5:M:676:ILE:O	5:M:676:ILE:HG12	2.14	0.47
6:D:26:VAL:HG13	6:D:43:GLY:C	2.35	0.47
6:N:921:ARG:HG3	6:N:921:ARG:NH1	2.30	0.47
5:M:143:SER:O	5:M:145:GLY:N	2.48	0.47
4:K:197:LEU:H	4:K:197:LEU:HD23	1.80	0.47
5:C:88:LEU:HD22	5:C:814:GLU:CG	2.45	0.47
6:N:1197:ARG:HB3	6:N:1396:GLU:CD	2.36	0.47
5:C:610:ARG:NH1	10:C:1614:HOH:O	2.47	0.47
10:A:415:HOH:O	5:C:697:ARG:HA	2.15	0.47
6:D:815:ALA:HA	6:D:818:ARG:HD2	1.97	0.47
4:B:176:ARG:O	4:B:200:TRP:HE3	1.98	0.47
6:N:1192:LEU:HB3	6:N:1345:GLU:OE2	2.15	0.47
6:D:1114:THR:CG2	6:D:1195:GLN:HB3	2.45	0.47
6:N:1312:LEU:CG	6:N:1327:ARG:HD2	2.45	0.47
5:C:350:ARG:O	5:C:353:ARG:HB3	2.15	0.47
6:D:895:VAL:HG12	6:D:895:VAL:O	2.14	0.47
6:D:1177:ALA:HB3	6:D:1183:ILE:HD11	1.96	0.47
5:M:30:LEU:HD12	5:M:30:LEU:O	2.14	0.47
5:C:778:PHE:HA	10:C:1503:HOH:O	2.15	0.47
10:C:1314:HOH:O	6:D:1055:VAL:HG11	2.15	0.47
6:D:123:LEU:O	6:D:126:VAL:HB	2.15	0.46
6:D:1453:ALA:O	6:D:1455:LYS:N	2.48	0.46
6:D:161:LEU:O	6:D:449:SER:HB2	2.16	0.46
6:D:1310:ARG:NE	6:D:1327:ARG:NE	2.63	0.46
4:B:36:LEU:O	4:B:39:PRO:HD2	2.15	0.46
6:N:450:TYR:O	6:N:452:ILE:HG22	2.15	0.46
6:N:695:ILE:HD13	6:N:720:LEU:HD11	1.97	0.46
6:D:85:VAL:HB	6:D:89:ARG:CZ	2.45	0.46
6:D:11:ALA:HB1	6:D:507:ASN:OD1	2.15	0.46
4:A:206:THR:HG23	4:A:208:LEU:H	1.80	0.46
6:N:838:ARG:HG2	6:N:838:ARG:HH11	1.80	0.46
6:N:868:TYR:CE1	6:N:869:MET:HG3	2.48	0.46
6:N:880:ILE:HG22	10:N:8034:HOH:O	2.15	0.46
5:C:88:LEU:HD22	5:C:814:GLU:CD	2.36	0.46
5:C:693:GLU:OE1	5:C:696:LYS:HD2	2.15	0.46
6:N:409:VAL:HG21	6:N:421:LEU:CD2	2.44	0.46
6:D:1044:LEU:HD21	6:D:1056:PRO:HG3	1.97	0.46
7:O:26:ARG:NH2	7:O:67:GLU:OE1	2.47	0.46
6:D:989:TYR:CE2	6:D:993:LEU:HD11	2.49	0.46
7:E:28:GLN:NE2	10:E:109:HOH:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1134:LEU:HD12	6:N:1135:ARG:H	1.79	0.46
10:K:2576:HOH:O	4:L:215:VAL:HB	2.13	0.46
4:L:69:PRO:O	4:L:71:VAL:HG23	2.14	0.46
5:C:950:LEU:HD11	6:D:1017:PHE:O	2.14	0.46
4:L:176:ARG:O	4:L:200:TRP:HE3	1.98	0.46
6:D:950:GLY:H	6:D:953:ASP:HB2	1.80	0.46
6:D:153:LEU:HB3	10:D:8238:HOH:O	2.15	0.46
6:D:421:LEU:HG	10:D:8313:HOH:O	2.14	0.46
6:D:436:GLU:OE1	6:D:445:ARG:HG3	2.14	0.46
6:D:438:ASP:HB2	6:D:445:ARG:HH12	1.80	0.46
6:N:615:ARG:HH22	6:N:1096:ARG:CZ	2.27	0.46
2:Y:7:G:H5''	2:Y:7:G:C8	2.50	0.46
4:B:27:PRO:HD3	10:B:452:HOH:O	2.14	0.46
4:B:9:PRO:HB3	4:B:25:LEU:HG	1.97	0.46
5:M:1085:PHE:O	5:M:1089:VAL:HG23	2.15	0.46
5:C:1016:ILE:HD13	5:C:1016:ILE:N	2.13	0.46
5:C:939:ARG:HD3	5:C:982:PRO:HD3	1.96	0.46
6:D:82:LYS:O	6:D:85:VAL:HG22	2.15	0.46
6:D:580:ALA:O	6:D:602:SER:HB3	2.16	0.46
5:C:333:ILE:HD13	5:C:467:ILE:HG13	1.97	0.46
6:N:206:ARG:CZ	6:N:394:LEU:HD13	2.45	0.46
6:N:394:LEU:HD23	6:N:394:LEU:H	1.79	0.46
6:N:1029:ARG:NH1	6:N:1029:ARG:HG2	2.30	0.46
5:M:690:ILE:HD12	5:M:833:LEU:HD23	1.97	0.46
6:N:1269:LYS:NZ	10:N:8402:HOH:O	2.48	0.46
5:C:399:ASN:ND2	5:C:568:ALA:HB3	2.30	0.46
5:C:676:ILE:CG2	5:C:988:VAL:HG13	2.44	0.46
5:C:496:ILE:HD12	5:C:496:ILE:N	2.30	0.46
5:C:552:HIS:CD2	5:C:886:LEU:HD22	2.50	0.46
6:D:207:PHE:HA	10:D:8124:HOH:O	2.14	0.46
6:N:95:LEU:HD23	6:N:551:ASN:CG	2.35	0.46
6:D:414:ARG:CD	6:D:414:ARG:N	2.78	0.46
5:C:100:LEU:HD22	5:C:372:LEU:HD21	1.96	0.46
5:C:374:ASN:O	5:C:377:PRO:HD2	2.15	0.46
1:G:18:DG:H4'	5:C:1002:GLU:HA	1.98	0.46
5:M:549:PHE:H	5:M:843:HIS:HE1	1.64	0.46
5:M:91:GLN:NE2	5:M:383:ARG:HH12	1.92	0.46
5:C:274:ARG:CB	5:C:285:LEU:HD13	2.45	0.46
7:O:48:MET:CB	7:O:54:LEU:HB2	2.45	0.46
6:N:1045:MET:HE2	6:N:1073:SER:HB3	1.96	0.46
6:D:172:PRO:HB3	10:D:8418:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:175:ARG:HH12	5:C:697:ARG:NH2	2.14	0.46
6:N:996:TRP:CA	6:N:999:THR:HG22	2.42	0.46
5:M:235:LEU:O	5:M:239:PHE:HD2	1.98	0.46
4:K:109:VAL:HG21	4:K:138:LEU:HD23	1.96	0.46
5:M:338:GLU:HA	5:M:341:THR:HG22	1.98	0.46
5:C:432:ARG:HD3	6:D:1048:PRO:CG	2.45	0.46
6:D:1220:ALA:O	6:D:1224:VAL:HG23	2.15	0.46
6:D:831:GLY:HA3	10:D:8282:HOH:O	2.15	0.46
5:C:22:GLN:NE2	5:C:125:GLY:O	2.48	0.46
5:M:537:LYS:HB2	5:M:537:LYS:HE2	1.61	0.46
6:D:165:LYS:HD2	6:D:199:LEU:HD13	1.96	0.46
6:N:619:LEU:HB2	6:N:621:LYS:CD	2.43	0.46
2:H:8:C:C2'	2:H:9:G:C8	2.98	0.46
6:D:1282:ARG:HA	6:D:1315:ASP:HA	1.97	0.46
6:N:1434:TRP:CZ3	6:N:1457:ASP:HB2	2.50	0.46
6:D:769:LEU:HD13	10:D:8259:HOH:O	2.16	0.46
5:M:437:ARG:NE	10:M:1352:HOH:O	2.48	0.46
5:M:217:LEU:N	5:M:217:LEU:HD23	2.30	0.46
1:G:13:DT:H2''	5:C:422:ARG:NH1	2.29	0.46
5:C:1105:LYS:HZ1	5:C:1107:ASN:HB2	1.81	0.46
5:C:158:TYR:CE1	5:C:313:LEU:HD11	2.50	0.46
4:K:20:TYR:HE2	4:K:198:ARG:HB2	1.79	0.46
5:C:139:GLN:HE22	5:C:415:PRO:CD	2.28	0.46
6:N:426:LYS:HE3	6:N:427:VAL:HG23	1.98	0.46
5:C:957:LYS:O	5:C:962:GLN:NE2	2.49	0.46
5:M:1059:ASP:CG	5:M:1062:GLY:HA3	2.35	0.46
5:M:195:LEU:HD21	5:M:238:LEU:HG	1.98	0.46
4:K:18:ARG:NH1	4:K:88:ARG:CZ	2.78	0.46
5:C:310:LEU:HG	10:C:1176:HOH:O	2.15	0.46
6:N:778:LEU:HA	6:N:780:LYS:HE2	1.97	0.46
6:N:513:ILE:HD12	10:N:8358:HOH:O	2.15	0.46
6:N:729:HIS:CE1	6:N:731:LEU:HD12	2.50	0.46
6:N:812:ALA:HB2	10:N:8572:HOH:O	2.15	0.46
5:C:1041:GLU:OE1	6:D:1462:LEU:HD12	2.16	0.46
4:A:33:GLY:O	4:A:195:LEU:HD13	2.15	0.46
4:B:185:ARG:NH1	6:D:692:GLU:HG2	2.31	0.46
6:D:762:GLN:NE2	7:E:20:THR:HG21	2.30	0.46
5:M:322:VAL:HA	10:M:1412:HOH:O	2.15	0.46
7:O:36:LYS:CG	7:O:95:VAL:HG21	2.46	0.46
6:N:30:GLU:HB3	6:N:40:GLU:CG	2.41	0.46
6:N:13:ALA:N	10:N:8039:HOH:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:139:GLN:HE21	5:M:418:LEU:HD21	1.80	0.46
5:C:127:PHE:N	5:C:127:PHE:CD1	2.83	0.46
4:A:111:ALA:HB3	4:A:124:ASN:O	2.15	0.46
5:M:160:ALA:O	5:M:173:ASP:HA	2.15	0.46
6:D:1440:PHE:CD2	6:D:1440:PHE:C	2.89	0.46
4:B:81:ASN:O	4:B:84:GLU:HB3	2.14	0.46
6:D:695:ILE:HD11	6:D:718:PRO:CB	2.42	0.46
6:N:1390:LEU:HD21	10:N:8248:HOH:O	2.16	0.46
5:C:54:ILE:CG2	5:C:66:LEU:HB3	2.46	0.46
6:D:54:LYS:HD2	6:D:55:ASP:H	1.80	0.46
5:C:1040:LEU:HD21	5:C:1048:THR:CG2	2.45	0.46
6:D:33:ASN:HB2	6:D:40:GLU:OE1	2.14	0.46
5:M:1041:GLU:OE1	6:N:1462:LEU:HD12	2.15	0.46
4:K:222:LEU:HD11	4:L:218:LEU:CD2	2.46	0.46
6:D:1087:ARG:NH1	6:D:1236:LEU:O	2.48	0.46
5:C:425:PHE:CZ	6:D:1079:LYS:HD3	2.51	0.46
6:N:959:GLU:OE2	6:N:959:GLU:N	2.48	0.46
6:D:1333:HIS:O	6:D:1336:LEU:HB3	2.15	0.46
6:N:82:LYS:C	6:N:84:ILE:H	2.18	0.46
6:D:146:PRO:HD3	10:D:8024:HOH:O	2.14	0.46
5:C:362:GLY:HA3	5:C:367:LEU:CD2	2.39	0.46
5:M:1095:LEU:HB3	5:M:1097:LEU:HD23	1.97	0.46
5:C:383:ARG:HH11	5:C:383:ARG:CB	2.23	0.46
4:K:89:PHE:CD1	4:K:120:VAL:HG23	2.47	0.46
5:M:207:LEU:O	5:M:211:LEU:HB3	2.16	0.46
5:C:36:PRO:CG	5:C:70:GLU:HB3	2.39	0.46
3:Z:9:DG:H2"	3:Z:10:DA:C8	2.51	0.46
5:C:435:TYR:CE1	5:C:539:VAL:HG22	2.51	0.46
4:L:28:LEU:HG	4:L:193:ASP:O	2.16	0.46
4:B:65:PHE:CD1	4:B:65:PHE:N	2.84	0.46
7:E:48:MET:CB	7:E:54:LEU:HB2	2.46	0.46
6:D:650:LEU:HG	10:D:8106:HOH:O	2.15	0.46
5:C:524:VAL:HG12	5:C:525:SER:N	2.30	0.46
4:K:149:GLY:O	4:K:171:PHE:HB2	2.15	0.46
6:N:1137:ARG:O	6:N:1141:GLU:HG3	2.15	0.46
6:N:1107:VAL:HA	6:N:1200:VAL:O	2.15	0.46
6:D:453:ASP:HB3	6:D:455:ARG:HH21	1.80	0.46
5:M:1034:GLU:HA	5:M:1037:VAL:HG23	1.98	0.46
6:D:1313:VAL:HG21	6:D:1319:VAL:HG11	1.97	0.46
7:E:19:LEU:O	7:E:23:VAL:HG23	2.15	0.46
5:M:1101:THR:HG21	5:M:1111:ILE:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:1005:MET:CE	6:D:724:GLN:HA	2.45	0.46
6:D:1356:TYR:CD1	6:D:1356:TYR:N	2.84	0.46
4:A:13:VAL:HG22	4:A:23:PHE:CD1	2.51	0.46
5:M:364:GLU:O	5:M:367:LEU:HG	2.15	0.46
4:A:94:LEU:HD11	4:A:119:ASP:HB3	1.98	0.46
5:C:1067:TYR:CE1	6:D:655:PRO:HG3	2.48	0.46
6:N:1097:LYS:O	6:N:1101:VAL:HG22	2.15	0.46
6:N:1101:VAL:HG22	6:N:1424:VAL:HG23	1.97	0.46
4:A:158:ILE:HG13	10:A:338:HOH:O	2.16	0.46
5:C:622:GLU:O	5:C:624:PRO:HD3	2.15	0.46
6:N:1314:LYS:HE3	10:N:8415:HOH:O	2.16	0.46
7:O:13:VAL:HG21	7:O:19:LEU:HB2	1.97	0.46
5:M:11:GLU:HG2	5:M:537:LYS:HZ1	1.80	0.46
5:M:718:GLY:HA3	5:M:761:PHE:CE1	2.51	0.46
10:C:1265:HOH:O	6:D:713:ILE:HD13	2.15	0.46
5:C:122:THR:HB	5:C:124:ASP:OD1	2.16	0.46
2:H:11:C:O2'	2:H:12:G:H5''	2.16	0.46
6:D:1281:VAL:CG1	6:D:1282:ARG:N	2.79	0.46
6:D:1295:GLU:HG2	6:D:1296:SER:N	2.30	0.46
6:N:1425:THR:O	6:N:1429:LEU:HD13	2.15	0.46
6:D:793:THR:HB	6:D:879:ARG:HD3	1.97	0.46
6:D:881:LEU:O	6:D:885:ILE:HG13	2.16	0.46
4:L:86:VAL:HG12	4:L:124:ASN:HB2	1.97	0.46
4:A:23:PHE:HE1	4:A:208:LEU:HD12	1.79	0.46
6:D:1408:ILE:HG12	5:M:371:LYS:HD3	1.98	0.46
6:N:922:LEU:HD23	10:N:8100:HOH:O	2.15	0.46
5:C:191:PHE:CZ	5:C:238:LEU:HD21	2.51	0.46
5:C:466:PHE:HB3	10:C:1401:HOH:O	2.14	0.46
6:N:1042:ARG:HH22	6:N:1073:SER:HB3	1.80	0.46
5:C:28:ARG:NH1	5:C:463:GLU:OE2	2.49	0.46
4:B:48:ILE:HG22	4:B:173:PRO:HD2	1.98	0.46
6:N:484:PRO:CB	6:N:488:ARG:HE	2.28	0.46
4:K:64:GLU:HA	4:K:165:ILE:HD13	1.96	0.46
6:N:157:GLU:HA	6:N:160:GLU:OE2	2.15	0.46
6:N:1194:CYS:HB3	6:N:1373:ARG:NH1	2.31	0.46
6:N:1490:LYS:HB3	10:O:1028:HOH:O	2.16	0.46
6:D:502:PHE:CZ	6:D:1452:ILE:HG23	2.51	0.46
6:D:675:ARG:HA	6:D:678:GLU:OE2	2.16	0.46
5:C:1012:PRO:HB2	5:C:1021:LEU:O	2.16	0.46
6:D:706:PRO:CA	10:D:8675:HOH:O	2.63	0.46
6:D:1279:GLY:O	6:D:1318:TYR:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1272:ALA:HA	6:D:1326:THR:HB	1.98	0.46
6:N:704:ARG:HG2	6:N:736:PHE:HB3	1.98	0.46
4:B:28:LEU:HG	4:B:193:ASP:O	2.15	0.46
5:M:953:VAL:CG2	5:M:966:LEU:HD13	2.46	0.46
4:A:181:VAL:HG12	5:C:938:LYS:HZ1	1.81	0.46
4:A:124:ASN:ND2	4:A:127:LEU:HD22	2.30	0.46
5:M:172:ILE:HD12	5:M:172:ILE:H	1.79	0.46
5:M:208:ALA:O	5:M:218:VAL:HG21	2.16	0.46
6:N:1128:VAL:HG22	10:N:8074:HOH:O	2.15	0.46
5:M:52:PHE:HB3	5:M:53:PRO:HD3	1.98	0.46
5:C:654:LEU:HD13	5:C:664:GLY:N	2.31	0.46
6:N:693:GLU:HA	7:O:48:MET:HE1	1.97	0.46
7:O:56:ASP:HB3	7:O:57:ASP:OD1	2.16	0.46
5:C:610:ARG:HG3	5:C:610:ARG:NH1	2.31	0.46
5:M:678:PRO:O	6:N:943:THR:HA	2.16	0.46
5:M:679:PHE:CE2	5:M:853:LEU:HD21	2.50	0.46
6:D:1351:GLU:OE1	6:D:1351:GLU:HA	2.16	0.46
5:M:191:PHE:HB2	5:M:241:LEU:CD1	2.44	0.46
7:E:26:ARG:NE	7:E:67:GLU:OE1	2.49	0.46
6:N:478:LEU:HD22	6:N:1388:ARG:CD	2.45	0.46
5:M:601:GLY:O	5:M:648:ARG:HA	2.16	0.46
6:N:1347:TYR:HD2	6:N:1348:LEU:HD12	1.80	0.46
6:N:105:VAL:HG11	10:N:8409:HOH:O	2.16	0.46
4:K:123:MET:C	4:K:125:PRO:HD3	2.35	0.46
5:C:405:ARG:CZ	5:C:566:THR:HG21	2.46	0.46
4:B:143:ARG:HD3	4:B:158:ILE:HG21	1.98	0.46
5:M:6:PHE:CZ	5:M:901:TYR:CD2	3.04	0.46
4:B:96:THR:O	4:B:96:THR:HG23	2.16	0.46
6:D:585:GLY:HA3	10:D:8540:HOH:O	2.15	0.46
6:D:165:LYS:CD	6:D:199:LEU:HD13	2.46	0.46
6:D:704:ARG:HH12	6:D:743:ASP:CG	2.19	0.46
5:M:1102:LEU:HA	5:M:1107:ASN:O	2.15	0.46
5:M:676:ILE:HD13	6:N:949:ILE:O	2.16	0.46
5:M:45:GLN:NE2	10:M:1170:HOH:O	2.48	0.46
5:M:479:VAL:HG21	5:M:503:LEU:HD22	1.96	0.46
7:O:27:ALA:HB2	7:O:61:VAL:CG1	2.43	0.46
5:C:545:ASN:O	5:C:581:THR:HG21	2.16	0.46
6:D:1042:ARG:HH11	6:D:1042:ARG:CB	2.29	0.46
5:C:208:ALA:HB1	5:C:218:VAL:CG1	2.46	0.46
5:M:235:LEU:HG	10:M:1362:HOH:O	2.16	0.46
5:M:751:PRO:HA	5:M:792:VAL:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:430:VAL:CG1	6:N:1075:HIS:HA	2.45	0.46
6:D:1399:ASP:O	6:D:1403:LEU:HB2	2.15	0.46
5:C:97:ARG:HA	5:C:111:ASP:O	2.15	0.46
6:N:66:GLN:O	6:N:69:GLU:HB3	2.16	0.46
6:N:1123:PHE:HD1	6:N:1134:LEU:HA	1.81	0.46
6:N:1231:GLU:HB3	6:N:1232:PRO:HD3	1.98	0.46
4:L:18:ARG:HH12	4:L:123:MET:HE1	1.81	0.46
6:N:1183:ILE:HD12	6:N:1183:ILE:H	1.81	0.46
5:C:952:LEU:HD12	5:C:969:GLN:NE2	2.31	0.46
5:C:589:ARG:NH2	5:C:652:GLY:O	2.49	0.46
6:N:964:LEU:O	6:N:968:ASP:HB2	2.16	0.46
6:D:482:LYS:HD2	10:D:8410:HOH:O	2.15	0.46
6:N:1472:ILE:HD13	6:N:1472:ILE:N	2.31	0.45
6:N:704:ARG:NH1	6:N:743:ASP:OD1	2.44	0.45
6:D:1481:VAL:HG12	7:E:21:VAL:HG21	1.98	0.45
6:N:465:LEU:HD11	6:N:509:PRO:O	2.16	0.45
6:D:577:ALA:O	6:D:580:ALA:HB3	2.14	0.45
5:C:877:PRO:HG3	6:D:1023:MET:SD	2.56	0.45
5:C:290:LEU:H	5:C:290:LEU:HD23	1.81	0.45
5:C:259:GLY:O	5:C:290:LEU:O	2.34	0.45
5:C:202:TYR:CE1	5:C:304:LEU:HD13	2.51	0.45
6:N:868:TYR:N	10:N:8682:HOH:O	2.49	0.45
6:D:908:LYS:HB2	6:D:1027:GLY:HA3	1.97	0.45
4:K:18:ARG:HH12	4:K:88:ARG:CZ	2.28	0.45
5:C:54:ILE:O	5:C:54:ILE:HG23	2.16	0.45
6:D:1137:ARG:HD3	10:D:8132:HOH:O	2.15	0.45
6:D:661:MET:SD	6:D:687:VAL:HG13	2.56	0.45
4:B:59:GLU:HG2	4:B:139:ASN:HD22	1.81	0.45
6:N:988:ARG:HD3	6:N:992:ILE:HD12	1.98	0.45
6:N:1277:ILE:HD11	10:N:8428:HOH:O	2.16	0.45
6:N:1124:GLN:HA	6:N:1125:PRO:HD3	1.71	0.45
4:K:2:LEU:O	4:K:6:LEU:HB3	2.16	0.45
5:C:928:LYS:HG3	5:C:932:GLU:CD	2.36	0.45
10:M:1160:HOH:O	6:N:616:GLN:HA	2.15	0.45
6:D:122:GLU:O	6:D:126:VAL:HG23	2.16	0.45
6:D:1448:THR:O	6:D:1452:ILE:HD13	2.16	0.45
6:D:502:PHE:CE1	6:D:509:PRO:HB3	2.51	0.45
5:C:1031:ARG:CD	6:D:621:LYS:HD2	2.46	0.45
6:D:1311:LEU:HD23	6:D:1311:LEU:N	2.31	0.45
6:D:1318:TYR:OH	6:N:41:ARG:CZ	2.63	0.45
5:M:946:ARG:HH22	6:N:861:GLN:CD	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:133:ILE:HG22	6:N:134:VAL:N	2.31	0.45
7:E:10:PHE:CZ	7:E:16:LYS:HE2	2.52	0.45
5:M:1056:LYS:O	6:N:624:ASP:HB2	2.16	0.45
5:M:1008:ARG:NH1	6:N:624:ASP:OD1	2.48	0.45
6:N:1429:LEU:CG	6:N:1441:GLN:HG3	2.37	0.45
5:C:836:GLY:HA3	6:D:724:GLN:OE1	2.16	0.45
5:M:177:GLU:N	5:M:178:PRO:HD3	2.30	0.45
5:M:197:LEU:HD11	10:M:1515:HOH:O	2.16	0.45
5:M:218:VAL:HG22	5:M:221:LEU:CD2	2.44	0.45
6:D:584:ASN:HB2	6:D:602:SER:OG	2.16	0.45
4:L:50:GLY:O	4:L:146:ARG:HA	2.16	0.45
5:M:148:PHE:CE1	5:M:309:TYR:HB3	2.51	0.45
6:D:1119:SER:O	6:D:1121:PRO:HD3	2.16	0.45
6:D:1136:LYS:HB2	6:D:1139:ASP:OD2	2.16	0.45
6:N:1293:PHE:HD2	6:N:1300:SER:CB	2.24	0.45
6:N:984:THR:H	6:N:987:GLU:CD	2.18	0.45
4:K:49:PRO:O	4:K:173:PRO:HG2	2.16	0.45
4:K:216:GLU:O	4:K:220:GLU:HG3	2.16	0.45
6:N:1120:VAL:CG1	6:N:1144:LEU:HD21	2.46	0.45
6:N:1110:ALA:O	6:N:1111:ASP:C	2.53	0.45
6:D:895:VAL:HG21	10:D:8656:HOH:O	2.16	0.45
4:L:132:LEU:HG	4:L:136:GLY:HA3	1.99	0.45
5:C:480:THR:HG22	5:C:481:ASP:N	2.31	0.45
4:L:90:LEU:HD23	10:L:413:HOH:O	2.16	0.45
6:N:1490:LYS:HD3	10:N:8684:HOH:O	2.15	0.45
6:N:1001:GLU:HG2	10:N:8306:HOH:O	2.15	0.45
6:D:396:VAL:HG23	6:D:396:VAL:O	2.16	0.45
5:M:1058:ASP:OD2	5:M:1083:GLU:N	2.49	0.45
4:A:42:ARG:NE	5:C:857:ASP:HB3	2.30	0.45
4:B:27:PRO:C	4:B:28:LEU:HD23	2.36	0.45
5:C:369:PRO:HB2	5:C:370:ALA:H	1.50	0.45
5:C:939:ARG:NE	5:C:939:ARG:CA	2.78	0.45
5:M:217:LEU:HD12	5:M:311:PHE:HA	1.97	0.45
3:Z:3:DA:H1'	5:M:423:ALA:HB2	1.98	0.45
6:D:478:LEU:HD23	6:D:496:LEU:HD21	1.96	0.45
6:N:696:HIS:HD2	10:O:2990:HOH:O	1.98	0.45
5:C:252:LYS:NZ	5:C:296:GLY:HA3	2.31	0.45
5:C:12:VAL:CB	5:C:472:ARG:HH11	2.24	0.45
5:C:694:LEU:HD23	10:C:1258:HOH:O	2.16	0.45
6:D:813:LEU:HD12	10:D:8469:HOH:O	2.15	0.45
5:C:1008:ARG:HG2	5:C:1008:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:627:ARG:O	5:C:638:ASP:HB3	2.16	0.45
5:C:626:ARG:N	5:C:639:GLN:NE2	2.59	0.45
5:C:1076:VAL:HG23	5:C:1077:PRO:O	2.16	0.45
5:C:165:LEU:O	5:C:265:ARG:CZ	2.64	0.45
6:D:975:GLU:O	6:D:979:GLU:HG3	2.15	0.45
5:C:984:GLU:HB3	10:C:1379:HOH:O	2.16	0.45
6:D:987:GLU:O	6:D:991:GLN:HB2	2.16	0.45
4:L:216:GLU:OE2	4:L:220:GLU:HB2	2.16	0.45
5:C:50:GLU:HG2	5:C:51:THR:HG23	1.98	0.45
6:D:150:ARG:HH11	6:D:464:LEU:HD22	1.81	0.45
5:C:227:PHE:HA	10:C:1663:HOH:O	2.15	0.45
6:D:591:VAL:HG23	10:D:8040:HOH:O	2.16	0.45
6:D:978:TYR:HD2	10:D:8294:HOH:O	1.98	0.45
6:D:1063:GLU:CD	6:D:1064:GLY:H	2.20	0.45
6:D:1103:HIS:HD2	6:D:1463:LYS:H	1.62	0.45
6:N:525:ARG:HA	6:N:526:PRO:HD3	1.63	0.45
6:N:1303:TYR:O	6:N:1305:LEU:HD23	2.16	0.45
6:D:628:ARG:HG3	6:D:628:ARG:O	2.15	0.45
5:M:190:LYS:HB2	10:M:1400:HOH:O	2.17	0.45
5:M:52:PHE:CG	5:M:68:PHE:HB2	2.51	0.45
5:C:853:LEU:HD22	5:C:858:MET:HE2	1.98	0.45
6:D:462:GLN:NE2	6:D:513:ILE:HD13	2.31	0.45
5:C:418:LEU:CD1	5:C:418:LEU:H	2.19	0.45
5:C:791:ARG:HH11	5:C:791:ARG:HG2	1.81	0.45
6:D:656:PHE:HB3	6:D:694:VAL:CG1	2.45	0.45
5:M:674:VAL:HG23	5:M:869:VAL:HG13	1.98	0.45
5:C:39:ARG:HD2	5:C:39:ARG:N	2.28	0.45
4:B:105:GLY:O	4:B:132:LEU:HB3	2.16	0.45
6:D:666:ILE:HG12	6:D:686:GLU:OE2	2.16	0.45
5:C:1053:LEU:HA	10:C:1131:HOH:O	2.16	0.45
4:K:13:VAL:HG22	4:K:23:PHE:CD1	2.52	0.45
6:N:1031:ASN:HB3	6:N:1034:GLN:CD	2.36	0.45
6:N:1159:ARG:HD3	10:N:8055:HOH:O	2.15	0.45
4:B:164:ALA:HB3	10:B:412:HOH:O	2.16	0.45
5:C:1038:TRP:HB3	6:D:1223:ILE:CG2	2.46	0.45
5:C:1115:LEU:HD12	5:C:1115:LEU:N	2.32	0.45
4:L:42:ARG:HH11	4:L:42:ARG:HG2	1.81	0.45
6:N:34:TYR:HA	10:N:8236:HOH:O	2.15	0.45
6:D:131:LYS:HG3	6:D:568:ARG:CG	2.46	0.45
6:D:199:LEU:HD11	10:D:8272:HOH:O	2.16	0.45
2:Y:5:C:H6	2:Y:5:C:O5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:51:GLY:HA3	6:D:86:ARG:CA	2.46	0.45
5:C:861:LEU:HG	5:C:862:PRO:HD2	1.98	0.45
6:D:1026:SER:C	6:D:1028:ALA:H	2.19	0.45
5:M:473:ARG:HG3	5:M:474:VAL:N	2.31	0.45
5:C:284:ARG:HB3	5:C:301:GLU:OE1	2.16	0.45
5:C:428:ARG:HG2	5:C:449:ILE:O	2.17	0.45
5:C:813:VAL:HG22	5:C:814:GLU:N	2.30	0.45
5:C:893:ALA:O	5:C:897:LEU:HG	2.16	0.45
5:C:462:ASP:CB	5:C:468:ARG:HD2	2.42	0.45
5:M:760:SER:O	5:M:785:VAL:HG22	2.16	0.45
5:M:785:VAL:HG23	10:M:1610:HOH:O	2.17	0.45
6:N:1053:PHE:CZ	6:N:1072:ILE:HD12	2.51	0.45
6:N:770:LEU:HD23	6:N:777:PRO:HA	1.98	0.45
6:N:902:LEU:HD11	10:N:8155:HOH:O	2.15	0.45
4:B:102:LYS:HD2	4:B:139:ASN:CG	2.36	0.45
6:N:728:LEU:HD12	6:N:729:HIS:N	2.30	0.45
4:L:149:GLY:N	10:L:422:HOH:O	2.48	0.45
6:D:1377:LYS:HE2	6:D:1378:TYR:CZ	2.51	0.45
5:C:923:GLU:O	5:C:927:GLY:HA3	2.16	0.45
4:K:54:THR:HG22	4:K:158:ILE:HG13	1.98	0.45
6:D:629:SER:OG	6:D:630:VAL:N	2.49	0.45
5:C:497:ALA:HA	5:C:515:ALA:HA	1.99	0.45
4:K:5:LYS:O	4:K:8:ALA:HB2	2.17	0.45
6:N:736:PHE:O	6:N:738:ALA:N	2.50	0.45
4:A:42:ARG:HH12	4:B:34:VAL:HB	1.75	0.45
5:C:1046:ALA:HB2	6:D:1476:THR:H	1.82	0.45
5:M:939:ARG:CD	5:M:982:PRO:HD3	2.47	0.45
5:M:162:ILE:HD12	5:M:172:ILE:HB	1.99	0.45
5:C:571:LEU:CD2	5:C:670:GLN:HE21	2.29	0.45
6:N:407:VAL:HA	6:N:422:ALA:CB	2.47	0.45
5:C:1007:ALA:HB2	6:D:648:MET:HG2	1.99	0.45
5:M:135:VAL:HG22	10:M:1208:HOH:O	2.16	0.45
5:M:241:LEU:HD11	10:M:1484:HOH:O	2.17	0.45
4:L:43:ILE:HG23	4:L:47:SER:CB	2.47	0.45
6:D:114:THR:HG21	6:D:494:LYS:HE2	1.99	0.45
5:M:517:ARG:NH2	5:M:524:VAL:HG21	2.32	0.45
5:M:838:LYS:O	5:M:838:LYS:HG3	2.16	0.45
4:L:36:LEU:O	4:L:40:LEU:HD12	2.17	0.45
5:C:430:VAL:HG13	6:D:1075:HIS:HD1	1.81	0.45
4:A:41:ARG:HB2	10:A:387:HOH:O	2.16	0.45
6:D:950:GLY:O	6:D:953:ASP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:220:GLU:HG3	10:L:326:HOH:O	2.16	0.45
6:N:115:LEU:C	6:N:115:LEU:HD23	2.37	0.45
4:K:38:ASN:O	4:K:42:ARG:HG3	2.16	0.45
6:D:667:ALA:HA	6:D:668:PRO:HD3	1.82	0.45
5:C:352:ALA:C	5:C:355:VAL:HG12	2.37	0.45
4:L:86:VAL:O	4:L:86:VAL:HG13	2.17	0.45
5:M:145:GLY:H	5:M:163:ILE:HG23	1.82	0.45
4:A:73:GLU:CD	4:A:131:THR:H	2.20	0.45
6:D:841:TYR:HB2	6:D:864:VAL:CG1	2.47	0.45
6:N:1011:PHE:HB3	6:N:1021:TYR:CG	2.52	0.45
6:N:437:VAL:HG22	6:N:444:VAL:HG22	1.97	0.45
5:M:684:PHE:CD2	6:N:740:PHE:HE1	2.35	0.45
6:D:1110:ALA:O	6:D:1111:ASP:C	2.55	0.45
6:N:19:ARG:HD3	6:N:92:HIS:CD2	2.52	0.45
5:C:279:GLU:HG3	5:C:280:LYS:N	2.30	0.45
5:M:708:TYR:CE1	5:M:827:VAL:HB	2.51	0.45
4:L:218:LEU:O	4:L:222:LEU:HG	2.16	0.45
5:C:430:VAL:HG13	6:D:1075:HIS:ND1	2.32	0.45
6:D:1183:ILE:HG22	6:N:560:GLN:O	2.17	0.45
5:C:133:ASP:N	5:C:133:ASP:OD2	2.49	0.45
6:D:776:GLU:HB3	6:D:912:LYS:HE2	1.98	0.45
6:N:1033:GLN:HE21	6:N:1036:ARG:NH1	2.14	0.45
6:D:1434:TRP:HZ2	10:D:8476:HOH:O	1.99	0.45
6:D:164:GLY:HA3	6:D:447:VAL:CB	2.47	0.45
6:N:57:GLU:HG3	6:N:64:LYS:HD2	1.98	0.45
5:M:1095:LEU:CB	5:M:1097:LEU:HD23	2.47	0.45
5:M:677:MET:HA	6:N:948:THR:HG22	1.98	0.45
6:N:179:VAL:CG1	6:N:183:GLU:HB3	2.34	0.45
5:M:395:LYS:HE2	5:M:397:GLU:HG2	1.98	0.45
6:D:15:PRO:HB2	10:D:8573:HOH:O	2.17	0.45
5:C:710:ILE:HB	5:C:790:LEU:HB2	1.98	0.45
5:C:440:PRO:HG2	5:C:441:VAL:HG23	1.99	0.45
5:C:1060:ILE:HG23	5:C:1061:GLU:H	1.81	0.45
5:C:905:ILE:CG2	10:C:1239:HOH:O	2.65	0.45
6:D:458:ALA:N	10:D:8631:HOH:O	2.48	0.45
6:N:413:ASP:O	6:N:435:VAL:HG23	2.16	0.45
5:M:577:PRO:HB3	5:M:842:ARG:NH2	2.31	0.45
5:C:1077:PRO:HB3	10:C:1537:HOH:O	2.15	0.45
5:M:137:VAL:HG22	5:M:391:LEU:O	2.17	0.45
5:C:39:ARG:O	5:C:41:ASN:N	2.50	0.45
6:N:673:ALA:O	6:N:677:LEU:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:39:VAL:CG2	7:E:72:ARG:HG3	2.47	0.45
6:D:984:THR:HG22	6:D:987:GLU:H	1.81	0.45
4:L:19:GLU:O	4:L:200:TRP:HA	2.16	0.45
4:L:128:HIS:HE1	4:L:131:THR:HG22	1.81	0.45
5:M:288:ARG:HD3	10:M:1189:HOH:O	2.17	0.45
10:K:668:HOH:O	5:M:865:THR:HA	2.16	0.45
5:M:329:GLY:HA3	5:M:489:THR:HG23	1.99	0.45
6:D:118:LEU:O	6:D:120:ALA:N	2.49	0.45
6:D:181:ASP:HB3	6:D:441:ARG:HG2	1.99	0.45
7:O:36:LYS:HG2	7:O:95:VAL:HG21	1.99	0.45
6:N:1442:ASN:OD1	6:N:1444:THR:CB	2.65	0.45
5:M:80:GLN:HG2	5:M:80:GLN:H	1.55	0.45
4:L:76:VAL:O	4:L:80:LEU:HB2	2.17	0.45
6:D:493:ARG:HD2	6:D:493:ARG:C	2.37	0.45
5:C:333:ILE:HG21	5:C:410:ILE:HD11	1.98	0.45
6:D:192:ALA:HB1	6:D:193:PRO:HD2	1.97	0.45
4:K:209:GLU:C	4:K:213:GLN:HE21	2.20	0.45
4:K:186:LEU:HD12	10:K:3363:HOH:O	2.17	0.45
5:C:244:PRO:CD	5:C:245:GLY:H	2.27	0.45
5:C:207:LEU:HD22	5:C:221:LEU:CD2	2.46	0.45
6:N:1366:LYS:O	6:N:1370:ILE:HG12	2.16	0.45
5:C:146:VAL:HG22	5:C:162:ILE:HG12	1.98	0.45
6:D:108:VAL:HB	6:D:109:PRO:CD	2.46	0.45
6:N:1101:VAL:HG13	6:N:1428:ALA:HB2	1.98	0.45
6:N:1384:PRO:HG2	10:N:8500:HOH:O	2.17	0.45
6:N:796:ARG:C	6:N:828:LYS:HD2	2.37	0.45
5:C:829:GLN:HA	10:C:1727:HOH:O	2.16	0.45
4:L:18:ARG:HH12	4:L:123:MET:HE3	1.82	0.45
6:D:30:GLU:OE1	6:D:30:GLU:HA	2.16	0.45
5:M:757:GLY:HA2	5:M:789:SER:OG	2.17	0.45
7:O:9:LEU:HD22	7:O:19:LEU:HD11	1.98	0.45
6:N:1342:GLU:HA	10:N:8111:HOH:O	2.17	0.45
5:C:703:ILE:HD12	5:C:703:ILE:N	2.31	0.45
5:M:1042:ALA:HA	6:N:1220:ALA:HB3	1.99	0.45
6:D:1124:GLN:HA	6:D:1125:PRO:HD3	1.60	0.45
6:N:1472:ILE:H	6:N:1472:ILE:HD13	1.82	0.45
6:N:619:LEU:HD23	6:N:619:LEU:N	2.32	0.45
2:Y:2:A:P	6:N:671:LYS:HZ2	2.34	0.45
6:N:47:GLU:O	6:N:51:GLY:N	2.50	0.45
5:C:129:ILE:CG1	5:C:386:PHE:HB3	2.47	0.45
4:A:87:VAL:HG21	4:A:144:VAL:CG1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:83:CYS:HA	5:M:88:LEU:HB3	1.98	0.45
5:C:1088:LEU:CD2	5:C:1092:LEU:HD12	2.47	0.45
5:C:689:VAL:HG13	5:C:853:LEU:HD13	1.98	0.45
5:C:443:THR:HG21	6:D:1078:ARG:CZ	2.47	0.45
6:N:880:ILE:O	6:N:883:ALA:HB3	2.16	0.45
5:C:697:ARG:HD2	5:C:699:PHE:CD1	2.52	0.45
5:C:21:ILE:HG12	5:C:455:LEU:HD21	1.98	0.45
5:C:204:GLN:N	5:C:204:GLN:NE2	2.64	0.45
6:D:1056:PRO:HD2	10:D:8386:HOH:O	2.16	0.45
5:C:172:ILE:HA	5:C:185:LYS:O	2.16	0.45
5:C:52:PHE:O	5:C:54:ILE:N	2.50	0.45
6:D:898:GLU:HG2	10:D:8099:HOH:O	2.17	0.45
4:B:88:ARG:NH1	10:B:337:HOH:O	2.50	0.45
5:M:236:ILE:HD11	10:M:1261:HOH:O	2.17	0.45
5:M:6:PHE:HZ	5:M:901:TYR:CD2	2.35	0.45
6:N:669:ASN:ND2	10:N:8557:HOH:O	2.49	0.45
6:D:939:PHE:O	6:D:942:SER:HB3	2.17	0.45
6:D:904:VAL:HB	10:D:8722:HOH:O	2.16	0.45
6:D:1284:GLU:HG2	6:N:75:ARG:HH22	1.81	0.44
6:N:52:PRO:CG	6:N:80:VAL:HG13	2.45	0.44
4:A:42:ARG:HD2	5:C:977:GLY:O	2.17	0.44
5:M:141:HIS:HD1	5:M:165:LEU:HD22	1.82	0.44
5:M:904:PRO:CD	5:M:908:GLY:HA2	2.35	0.44
1:G:12:DG:OP1	6:D:1441:GLN:O	2.35	0.44
4:L:74:ASP:CB	6:N:872:ARG:NH2	2.73	0.44
5:M:358:ARG:HB3	5:M:371:LYS:O	2.18	0.44
5:C:191:PHE:HD2	5:C:192:PRO:HD2	1.82	0.44
5:C:1060:ILE:O	5:C:1063:ARG:HG2	2.17	0.44
4:K:184:THR:CG2	4:K:194:LYS:HB2	2.48	0.44
6:D:843:PHE:CE1	6:D:864:VAL:HG11	2.52	0.44
5:C:18:LEU:HD23	5:C:408:ARG:NH1	2.32	0.44
6:N:409:VAL:HG12	6:N:410:SER:N	2.32	0.44
5:C:260:LEU:HD12	5:C:261:ILE:N	2.33	0.44
6:N:481:MET:CE	6:N:493:ARG:HA	2.46	0.44
6:D:684:LYS:O	6:D:687:VAL:HG23	2.16	0.44
4:K:174:VAL:HG13	4:K:200:TRP:O	2.17	0.44
5:M:428:ARG:NE	5:M:451:LEU:HD21	2.32	0.44
4:B:5:LYS:O	4:B:8:ALA:HB2	2.17	0.44
6:N:1344:VAL:O	6:N:1348:LEU:HD13	2.17	0.44
4:A:95:GLN:HA	10:A:330:HOH:O	2.16	0.44
6:D:1189:ARG:HB3	6:D:1204:CYS:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1201:CYS:SG	6:D:1204:CYS:HB2	2.58	0.44
5:C:29:ALA:HB2	5:C:337:GLY:HA2	1.99	0.44
6:N:1145:TYR:CE2	6:N:1168:MET:HB2	2.52	0.44
6:D:702:LEU:O	6:D:713:ILE:HA	2.17	0.44
7:E:78:ASN:ND2	10:E:101:HOH:O	2.50	0.44
6:N:702:LEU:HB3	6:N:745:MET:CE	2.47	0.44
6:D:161:LEU:HD21	6:D:452:ILE:HD13	2.00	0.44
6:D:1281:VAL:HG23	6:D:1319:VAL:CG2	2.47	0.44
6:N:704:ARG:NH1	6:N:738:ALA:HA	2.32	0.44
2:Y:7:G:H8	2:Y:7:G:C5'	2.30	0.44
6:N:135:LEU:CD2	6:N:452:ILE:HG13	2.41	0.44
6:N:133:ILE:HG12	6:N:456:MET:CG	2.47	0.44
6:D:142:LEU:HD22	10:D:8024:HOH:O	2.16	0.44
6:N:700:VAL:HG22	6:N:718:PRO:CG	2.45	0.44
10:M:1414:HOH:O	6:N:6:ARG:HB2	2.17	0.44
6:D:45:PHE:HB3	6:D:86:ARG:HH21	1.83	0.44
6:D:520:LEU:O	6:D:525:ARG:NH1	2.50	0.44
6:D:89:ARG:O	6:D:521:PRO:HG3	2.17	0.44
6:D:1356:TYR:H	6:D:1356:TYR:HD1	1.65	0.44
6:N:785:ILE:HD12	6:N:785:ILE:N	2.28	0.44
6:N:926:LYS:HD2	10:N:8725:HOH:O	2.17	0.44
6:D:18:ILE:CG2	6:D:518:PRO:HG3	2.39	0.44
6:D:1130:ARG:HB2	10:D:8309:HOH:O	2.17	0.44
6:D:800:LYS:HZ1	6:D:800:LYS:C	2.20	0.44
6:N:864:VAL:HG12	6:N:865:THR:H	1.81	0.44
5:M:84:ARG:HG2	5:M:131:GLY:O	2.17	0.44
1:G:14:DT:H5"	6:D:1089:ALA:O	2.17	0.44
5:C:267:TYR:HB2	5:C:272:ALA:HB1	1.99	0.44
5:M:277:ALA:O	5:M:281:LEU:O	2.34	0.44
6:D:1472:ILE:H	6:D:1472:ILE:CD1	2.23	0.44
5:M:713:ARG:NH1	10:M:1310:HOH:O	2.50	0.44
5:M:967:PHE:CD1	5:M:972:VAL:HG12	2.51	0.44
10:M:1582:HOH:O	6:N:827:ILE:HD13	2.17	0.44
6:N:1496:GLU:HB2	6:N:1499:ARG:NH2	2.32	0.44
5:M:691:SER:HA	5:M:858:MET:HE1	1.99	0.44
6:N:975:GLU:O	6:N:979:GLU:HG3	2.17	0.44
6:N:1274:ILE:HD13	10:N:8291:HOH:O	2.16	0.44
6:D:127:LEU:HA	6:D:132:TYR:CD1	2.52	0.44
6:D:409:VAL:HG21	10:D:8413:HOH:O	2.17	0.44
6:D:433:GLY:N	6:D:450:TYR:HB2	2.32	0.44
5:M:1013:TYR:HE1	5:M:1020:PRO:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:28:LEU:HB2	4:B:193:ASP:HB2	1.99	0.44
6:N:568:ARG:NH2	10:N:8326:HOH:O	2.49	0.44
7:E:9:LEU:HD22	7:E:19:LEU:CD1	2.46	0.44
6:N:510:GLU:HB2	6:N:511:TRP:CZ3	2.53	0.44
6:N:586:ARG:HH22	6:N:1442:ASN:HD21	1.66	0.44
5:M:873:PRO:HB3	6:N:949:ILE:HG12	1.98	0.44
5:M:879:ARG:CB	5:M:881:ASN:HD21	2.31	0.44
5:M:80:GLN:HA	5:M:90:TYR:CD2	2.53	0.44
6:D:524:LEU:O	6:D:526:PRO:HD3	2.18	0.44
6:N:185:VAL:HG13	6:N:189:GLN:CD	2.37	0.44
5:C:328:LEU:HD11	5:C:434:HIS:CD2	2.52	0.44
5:C:21:ILE:H	5:C:21:ILE:CD1	2.24	0.44
5:C:580:MET:O	5:C:903:SER:N	2.50	0.44
5:M:751:PRO:HB2	10:M:1452:HOH:O	2.17	0.44
6:N:1051:GLU:HG3	6:N:1051:GLU:O	2.17	0.44
6:D:1195:GLN:HG3	6:D:1196:THR:N	2.33	0.44
4:B:135:GLY:N	10:B:331:HOH:O	2.49	0.44
4:L:24:VAL:HG22	4:L:196:THR:HG22	1.99	0.44
5:C:512:ARG:NH2	10:C:1344:HOH:O	2.50	0.44
4:A:25:LEU:HD13	4:B:225:PHE:CE2	2.51	0.44
5:C:950:LEU:HD12	5:C:952:LEU:HD21	1.98	0.44
6:D:966:GLU:CB	10:D:8745:HOH:O	2.64	0.44
4:B:228:PRO:HG2	10:B:317:HOH:O	2.17	0.44
5:C:494:TYR:HB2	5:C:496:ILE:HD11	1.99	0.44
6:D:809:PRO:HB2	6:D:812:ALA:HB2	2.00	0.44
5:C:775:ARG:HD2	5:C:782:ALA:HB3	2.00	0.44
5:C:928:LYS:NZ	5:C:932:GLU:HG3	2.33	0.44
4:A:63:HIS:CD2	5:C:801:VAL:HG12	2.53	0.44
7:E:52:GLU:HG3	10:E:157:HOH:O	2.18	0.44
5:M:835:VAL:HA	5:M:849:VAL:HG12	2.00	0.44
6:N:522:PRO:HA	6:N:525:ARG:NH1	2.28	0.44
5:M:950:LEU:HB3	5:M:952:LEU:CD2	2.47	0.44
5:C:383:ARG:NH1	5:C:383:ARG:HB2	2.22	0.44
5:M:217:LEU:HD11	5:M:314:THR:OG1	2.17	0.44
5:M:36:PRO:CB	5:M:70:GLU:HG2	2.47	0.44
6:N:1042:ARG:HH11	6:N:1042:ARG:HB2	1.83	0.44
5:C:899:GLN:HG3	5:C:901:TYR:CE1	2.52	0.44
5:M:148:PHE:CG	5:M:313:LEU:HD22	2.52	0.44
5:M:495:THR:CG2	5:M:517:ARG:HH21	2.29	0.44
6:D:1197:ARG:NH1	6:D:1198:TYR:HD1	2.14	0.44
4:K:129:ILE:HG13	10:K:1535:HOH:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:290:LEU:HD13	5:M:302:VAL:CG1	2.47	0.44
6:N:56:TYR:OH	6:N:69:GLU:HB2	2.16	0.44
3:Z:7:DC:OP1	6:N:1266:ARG:HG2	2.17	0.44
5:C:378:LEU:N	10:C:1757:HOH:O	2.51	0.44
6:N:1492:LEU:HD13	6:N:1492:LEU:C	2.38	0.44
6:N:988:ARG:HD3	6:N:992:ILE:CD1	2.47	0.44
6:N:762:GLN:NE2	7:O:20:THR:OG1	2.50	0.44
5:M:721:ARG:HG3	5:M:721:ARG:HH11	1.82	0.44
6:N:1377:LYS:HE2	6:N:1378:TYR:CZ	2.52	0.44
4:B:75:VAL:O	4:B:79:ILE:HG23	2.17	0.44
6:D:1292:VAL:HG23	6:D:1305:LEU:CG	2.43	0.44
2:Y:15:C:H2'	2:Y:16:G:H8	1.82	0.44
4:A:38:ASN:HB3	4:A:39:PRO:HD3	2.00	0.44
5:C:1003:ASP:OD2	6:D:724:GLN:OE1	2.36	0.44
5:M:470:PRO:HB2	5:M:534:VAL:HG21	1.98	0.44
4:K:82:LEU:O	4:K:85:LEU:HB3	2.18	0.44
5:M:404:LEU:HD13	5:M:591:SER:HA	2.00	0.44
4:A:206:THR:HG22	4:A:209:GLU:HG3	2.00	0.44
4:K:133:GLU:HG2	4:K:134:GLU:N	2.32	0.44
4:K:18:ARG:O	4:K:207:PRO:HD3	2.16	0.44
5:M:674:VAL:O	5:M:989:VAL:HA	2.18	0.44
6:N:984:THR:HG23	6:N:986:ARG:N	2.31	0.44
6:D:650:LEU:HD13	6:D:688:TRP:CZ3	2.53	0.44
7:O:79:LEU:CD1	7:O:80:VAL:HG23	2.48	0.44
6:N:65:ARG:CG	6:N:66:GLN:H	2.25	0.44
6:N:1135:ARG:HB3	6:N:1140:ILE:HD11	1.99	0.44
5:C:568:ALA:CB	5:C:668:LEU:HD22	2.48	0.44
6:D:30:GLU:HB3	6:D:40:GLU:CB	2.46	0.44
6:N:827:ILE:O	6:N:837:GLY:HA3	2.17	0.44
6:D:1493:LYS:O	6:D:1497:GLU:HG2	2.18	0.44
5:M:937:ASP:O	5:M:941:VAL:HG23	2.17	0.44
6:N:549:ASN:HD22	6:N:549:ASN:HA	1.61	0.44
6:D:165:LYS:O	6:D:396:VAL:HA	2.17	0.44
6:N:30:GLU:HG3	6:N:41:ARG:HG2	2.00	0.44
6:N:704:ARG:HE	6:N:705:ALA:HB3	1.83	0.44
6:N:161:LEU:CD2	6:N:452:ILE:HG21	2.41	0.44
6:D:770:LEU:HB2	6:D:1210:SER:O	2.18	0.44
1:G:19:DC:C5'	5:C:1000:MET:HG2	2.48	0.44
6:N:1481:VAL:O	6:N:1481:VAL:HG12	2.17	0.44
5:M:124:ASP:C	5:M:407:LYS:HZ1	2.21	0.44
6:D:1023:MET:HB3	6:D:1029:ARG:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:926:LYS:HG2	6:N:929:ARG:HH11	1.82	0.44
6:D:977:ALA:CB	6:D:983:LEU:HD21	2.38	0.44
6:D:791:TYR:CG	6:D:945:SER:HB2	2.53	0.44
6:D:513:ILE:HG22	10:D:8073:HOH:O	2.16	0.44
5:C:571:LEU:HD23	5:C:670:GLN:HE21	1.83	0.44
5:C:20:GLU:CG	5:C:21:ILE:N	2.81	0.44
5:M:678:PRO:HD3	6:N:947:ILE:O	2.18	0.44
5:C:204:GLN:HB3	10:C:1368:HOH:O	2.18	0.44
4:B:48:ILE:HG23	10:B:389:HOH:O	2.17	0.44
6:D:1047:LYS:HG2	6:D:1053:PHE:CE1	2.53	0.44
5:C:68:PHE:C	5:C:69:LEU:HD23	2.38	0.44
4:K:132:LEU:HD12	4:K:132:LEU:N	2.33	0.44
6:N:462:GLN:NE2	6:N:513:ILE:HD13	2.33	0.44
6:N:1271:LYS:HB2	10:N:8634:HOH:O	2.17	0.44
6:D:1109:GLU:HG2	6:D:1201:CYS:CA	2.48	0.44
6:D:1031:ASN:HB3	6:D:1034:GLN:NE2	2.32	0.44
6:N:820:GLU:CB	6:N:836:VAL:HG21	2.48	0.44
5:C:343:GLN:HG2	5:C:385:PHE:HB2	1.99	0.44
6:D:1223:ILE:CD1	6:D:1462:LEU:HD12	2.48	0.44
4:L:100:LEU:HB2	4:L:115:LEU:CD2	2.47	0.44
6:D:1167:SER:O	6:D:1171:VAL:HG23	2.18	0.44
5:M:780:GLU:HA	10:M:1429:HOH:O	2.16	0.44
5:M:589:ARG:NH2	5:M:596:TYR:CE2	2.86	0.44
4:L:41:ARG:HG3	4:L:177:VAL:HG21	1.98	0.44
4:K:156:HIS:CD2	4:K:157:GLY:N	2.85	0.44
5:M:250:ARG:HD2	10:M:1600:HOH:O	2.16	0.44
5:M:343:GLN:HG2	5:M:385:PHE:HB2	1.99	0.44
6:N:615:ARG:HB2	10:N:8424:HOH:O	2.16	0.44
5:C:1014:SER:HB2	5:C:1021:LEU:HD13	1.98	0.44
2:H:13:C:C2'	2:H:14:G:H8	2.29	0.44
6:D:1276:GLU:HG3	6:D:1303:TYR:OH	2.18	0.44
6:N:45:PHE:CZ	6:N:527:MET:HB2	2.53	0.44
5:M:632:ASN:HB3	5:M:633:GLN:NE2	2.15	0.44
4:A:198:ARG:NH1	5:C:929:ARG:HD3	2.26	0.44
6:D:1061:PHE:CE1	6:D:1065:LEU:HD22	2.53	0.44
6:D:814:ALA:HB1	6:D:818:ARG:NE	2.28	0.44
1:X:10:DG:H2''	1:X:11:DC:OP2	2.17	0.44
4:B:56:VAL:HG22	4:B:142:VAL:HG12	1.99	0.44
5:C:601:GLY:O	5:C:648:ARG:HA	2.17	0.44
5:C:344:PHE:O	5:C:348:LEU:HD13	2.17	0.44
6:D:862:ASP:O	6:D:876:SER:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:28:LEU:O	4:K:29:GLU:O	2.36	0.44
5:M:775:ARG:HD2	5:M:782:ALA:CB	2.48	0.44
6:N:755:ALA:O	6:N:758:GLU:HG2	2.18	0.44
4:L:201:THR:HG21	4:L:205:VAL:O	2.18	0.44
5:C:1023:GLY:N	10:C:1135:HOH:O	2.51	0.44
4:K:121:GLU:HG3	10:K:820:HOH:O	2.18	0.44
6:D:1292:VAL:HG11	6:D:1313:VAL:CG1	2.47	0.44
6:D:1321:ALA:HB1	6:D:1338:ALA:O	2.18	0.44
6:N:705:ALA:CB	6:N:706:PRO:HD3	2.47	0.44
6:N:135:LEU:HA	6:N:453:ASP:O	2.17	0.44
7:E:13:VAL:HG11	7:E:18:ARG:HB3	1.99	0.44
10:C:1217:HOH:O	6:D:520:LEU:HD21	2.18	0.44
6:N:1484:THR:HB	10:O:2590:HOH:O	2.17	0.44
5:M:45:GLN:CD	5:M:71:TYR:HE2	2.21	0.44
6:N:792:ILE:HG23	6:N:793:THR:CG2	2.48	0.44
5:C:806:LEU:O	5:C:821:GLU:HB2	2.17	0.44
4:K:184:THR:HG23	10:K:689:HOH:O	2.18	0.44
4:A:83:LYS:HE3	10:A:415:HOH:O	2.16	0.44
6:D:179:VAL:HG22	6:D:183:GLU:OE2	2.18	0.44
5:M:958:THR:HG23	5:M:961:GLU:CG	2.43	0.44
6:N:826:PRO:O	6:N:829:VAL:HG23	2.18	0.44
5:C:182:VAL:HB	5:C:193:LEU:HD13	2.00	0.44
6:D:1428:ALA:O	6:D:1431:THR:HG22	2.18	0.44
4:A:2:LEU:O	4:A:6:LEU:HB3	2.17	0.44
5:C:604:ALA:HB3	5:C:612:VAL:O	2.18	0.44
6:N:1087:ARG:NH1	10:N:8690:HOH:O	2.50	0.44
6:N:1401:GLU:CD	6:N:1415:VAL:HG11	2.39	0.44
4:A:88:ARG:HH12	4:A:90:LEU:HD11	1.83	0.44
4:L:182:GLU:N	4:L:182:GLU:OE1	2.46	0.44
6:D:884:ARG:HD3	6:D:888:GLU:OE2	2.18	0.44
4:K:102:LYS:HD3	4:K:139:ASN:ND2	2.33	0.44
5:M:841:ASN:HD21	5:M:845:ASN:HB3	1.82	0.44
5:M:1084:SER:HA	5:M:1087:VAL:HG12	1.99	0.44
6:N:133:ILE:HG23	6:N:455:ARG:N	2.33	0.44
6:N:9:ARG:HA	6:N:1434:TRP:CH2	2.52	0.44
5:C:1030:GLN:HB2	6:D:626:SER:CB	2.48	0.44
1:G:18:DG:H5''	6:D:628:ARG:NH2	2.33	0.44
5:M:486:MET:HG3	5:M:490:GLU:HB2	1.99	0.44
5:C:127:PHE:CE2	5:C:386:PHE:HE2	2.35	0.44
3:I:3:DA:C2'	3:I:4:DC:H5''	2.46	0.44
6:N:1480:PHE:O	7:O:18:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:70:GLU:HA	10:M:1170:HOH:O	2.18	0.44
5:C:242:LEU:HG	10:C:1174:HOH:O	2.18	0.44
5:C:428:ARG:O	5:C:450:GLY:HA3	2.18	0.44
6:N:838:ARG:HH21	6:N:863:VAL:CG1	2.28	0.44
5:C:139:GLN:HG2	5:C:418:LEU:CD2	2.48	0.44
4:A:75:VAL:O	4:A:79:ILE:HG23	2.17	0.44
5:C:173:ASP:HB2	5:C:185:LYS:NZ	2.32	0.44
6:D:1382:THR:CG2	6:D:1418:LYS:HE3	2.43	0.44
4:A:96:THR:HG22	10:A:370:HOH:O	2.18	0.44
6:N:402:PRO:HD2	10:N:8022:HOH:O	2.18	0.44
5:C:95:TYR:HD2	5:C:114:PHE:HB3	1.81	0.44
5:M:791:ARG:O	5:M:793:PRO:HD3	2.18	0.44
4:B:62:LEU:HD13	4:B:63:HIS:CD2	2.53	0.44
7:O:37:ASN:OD1	7:O:93:TYR:HB3	2.17	0.44
6:D:1271:LYS:HZ3	6:D:1331:ASP:HB2	1.82	0.44
5:C:592:LEU:HA	10:C:1395:HOH:O	2.18	0.44
6:D:1451:ALA:O	6:D:1452:ILE:C	2.55	0.43
6:D:394:LEU:H	6:D:394:LEU:HD23	1.82	0.43
6:D:1295:GLU:HB2	6:D:1300:SER:HB3	1.99	0.43
1:X:17:DC:O3'	6:N:628:ARG:NH2	2.51	0.43
5:M:56:GLU:OE1	5:M:359:MET:SD	2.76	0.43
6:D:489:ARG:HD3	10:D:8295:HOH:O	2.18	0.43
5:C:196:LEU:CD2	5:C:200:LEU:HD11	2.48	0.43
6:N:204:LEU:HG	6:N:394:LEU:O	2.17	0.43
5:M:1003:ASP:O	6:N:724:GLN:NE2	2.51	0.43
5:C:535:SER:H	5:C:538:GLN:NE2	2.16	0.43
4:K:7:LYS:NZ	4:K:186:LEU:HD21	2.32	0.43
6:D:1057:VAL:CG1	6:D:1065:LEU:HD11	2.48	0.43
5:C:462:ASP:CG	5:C:463:GLU:H	2.21	0.43
6:D:429:SER:OG	6:D:446:VAL:HG21	2.18	0.43
6:N:614:PHE:CE2	6:N:1438:ALA:HB1	2.52	0.43
6:N:475:LYS:O	6:N:478:LEU:HB2	2.19	0.43
4:L:14:ARG:HG3	4:L:14:ARG:HH11	1.83	0.43
6:N:729:HIS:CG	6:N:730:PRO:HD2	2.53	0.43
6:N:1087:ARG:HD2	6:N:1236:LEU:O	2.18	0.43
6:D:1430:SER:HB2	10:D:8069:HOH:O	2.18	0.43
6:D:827:ILE:O	6:D:837:GLY:HA3	2.17	0.43
4:A:163:ASN:HD22	4:A:163:ASN:HA	1.60	0.43
4:L:128:HIS:CE1	4:L:131:THR:HG22	2.53	0.43
6:D:540:LEU:HB3	10:D:8081:HOH:O	2.16	0.43
6:D:1313:VAL:HG21	6:D:1319:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1278:ASP:HA	6:D:1319:VAL:O	2.18	0.43
6:N:28:LYS:O	6:N:43:GLY:HA2	2.17	0.43
6:N:525:ARG:HB2	6:N:538:SER:CB	2.38	0.43
6:N:84:ILE:HG13	6:N:85:VAL:N	2.33	0.43
7:O:41:GLU:N	7:O:42:PRO:CD	2.81	0.43
6:N:141:ILE:CG1	6:N:449:SER:HA	2.38	0.43
6:N:187:LYS:HG3	6:N:198:ARG:O	2.18	0.43
7:E:10:PHE:CD2	7:E:19:LEU:HD23	2.53	0.43
5:M:1101:THR:HG21	5:M:1111:ILE:CG2	2.48	0.43
6:N:9:ARG:HH22	6:N:507:ASN:HD21	1.65	0.43
5:M:885:ILE:HG22	5:M:889:HIS:CE1	2.53	0.43
5:M:157:ARG:HD3	5:M:314:THR:HG21	1.99	0.43
6:N:441:ARG:HB3	10:N:8274:HOH:O	2.16	0.43
4:A:23:PHE:CE1	4:A:208:LEU:HD12	2.53	0.43
5:M:374:ASN:O	5:M:377:PRO:HD2	2.18	0.43
5:M:52:PHE:HZ	5:M:98:LEU:HB3	1.83	0.43
5:C:1109:VAL:HG21	10:D:8507:HOH:O	2.16	0.43
6:N:911:LEU:CD2	6:N:934:LEU:HD13	2.48	0.43
6:D:783:ARG:HG2	6:D:783:ARG:H	1.32	0.43
6:N:645:PRO:HG3	6:N:725:SER:O	2.18	0.43
5:C:896:PHE:HB3	5:C:924:VAL:CG1	2.47	0.43
6:N:413:ASP:HA	10:N:8596:HOH:O	2.18	0.43
6:D:957:PRO:CG	6:D:1007:VAL:HG22	2.48	0.43
6:N:1366:LYS:O	6:N:1369:GLU:HB2	2.17	0.43
5:C:643:VAL:HG23	5:C:655:LEU:HA	2.00	0.43
6:D:926:LYS:HE3	6:D:929:ARG:NH1	2.28	0.43
6:D:970:LYS:HA	6:D:973:GLN:HE21	1.77	0.43
4:L:59:GLU:HB2	10:L:330:HOH:O	2.18	0.43
6:N:967:ALA:O	6:N:995:LEU:HD21	2.17	0.43
5:C:121:MET:HG3	10:C:1560:HOH:O	2.18	0.43
5:M:805:ARG:HG2	5:M:823:VAL:HG22	2.00	0.43
5:C:824:ARG:HB3	5:C:826:TYR:HE1	1.82	0.43
4:A:173:PRO:HA	10:A:398:HOH:O	2.17	0.43
6:N:1145:TYR:HD2	6:N:1168:MET:CE	2.31	0.43
5:M:706:GLU:HA	5:M:706:GLU:OE2	2.18	0.43
6:N:149:LYS:H	6:N:149:LYS:HG3	1.56	0.43
6:D:1015:TYR:HA	10:D:8350:HOH:O	2.16	0.43
5:C:767:PRO:HB3	5:C:772:ARG:HH21	1.83	0.43
6:D:65:ARG:HD2	10:D:8058:HOH:O	2.16	0.43
6:N:534:ARG:HA	10:N:8687:HOH:O	2.18	0.43
6:N:643:GLY:HA3	6:N:727:GLN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:4:LYS:HA	10:M:1374:HOH:O	2.18	0.43
6:D:1311:LEU:HD23	6:D:1311:LEU:H	1.83	0.43
6:N:52:PRO:CB	6:N:80:VAL:HG13	2.48	0.43
6:D:781:PRO:HB3	6:D:785:ILE:CG2	2.48	0.43
5:C:1002:GLU:HG3	5:C:1003:ASP:N	2.33	0.43
5:M:462:ASP:CG	5:M:463:GLU:H	2.22	0.43
5:M:12:VAL:CG2	5:M:472:ARG:HH11	2.31	0.43
6:D:32:ILE:HB	6:D:527:MET:CE	2.49	0.43
5:M:218:VAL:HG23	5:M:311:PHE:HE1	1.83	0.43
5:M:80:GLN:N	5:M:90:TYR:HE2	2.16	0.43
5:C:200:LEU:HD21	10:C:1613:HOH:O	2.17	0.43
5:C:301:GLU:O	5:C:305:PRO:HG2	2.18	0.43
6:N:919:PHE:HE2	6:N:1212:ALA:HB2	1.82	0.43
5:C:449:ILE:C	5:C:451:LEU:H	2.22	0.43
4:K:198:ARG:NH2	5:M:934:PHE:CE1	2.86	0.43
6:N:494:LYS:O	6:N:494:LYS:HG2	2.18	0.43
6:D:569:ASN:HA	10:D:8628:HOH:O	2.18	0.43
4:K:184:THR:CG2	10:K:689:HOH:O	2.66	0.43
4:K:7:LYS:HD2	4:K:186:LEU:HD11	2.01	0.43
10:C:1237:HOH:O	6:D:752:SER:HA	2.18	0.43
1:X:14:DT:H72	6:N:1089:ALA:HB2	2.00	0.43
5:C:762:LYS:HZ2	5:C:786:LYS:CB	2.31	0.43
6:N:800:LYS:CE	6:N:804:LEU:HD22	2.48	0.43
4:K:49:PRO:HB3	4:K:148:VAL:CG2	2.46	0.43
5:M:428:ARG:HH21	5:M:451:LEU:HD11	1.83	0.43
4:B:88:ARG:HD2	4:B:123:MET:SD	2.58	0.43
6:N:1491:THR:O	6:N:1495:ILE:HD13	2.18	0.43
5:C:676:ILE:HG21	5:C:988:VAL:HG13	2.00	0.43
6:D:470:LEU:CB	6:D:503:LEU:HD11	2.48	0.43
6:N:809:PRO:HB2	6:N:812:ALA:HB2	2.00	0.43
5:M:757:GLY:CA	10:M:1317:HOH:O	2.66	0.43
5:M:808:ARG:HD3	10:M:1679:HOH:O	2.18	0.43
6:D:967:ALA:O	6:D:995:LEU:HD21	2.18	0.43
5:M:406:HIS:O	5:M:406:HIS:ND1	2.51	0.43
6:D:1503:VAL:HG13	10:D:8187:HOH:O	2.18	0.43
6:D:164:GLY:CA	6:D:447:VAL:CB	2.85	0.43
7:O:95:VAL:HG21	10:O:3018:HOH:O	1.99	0.43
5:M:1031:ARG:NH1	6:N:621:LYS:HZ1	2.15	0.43
5:C:1012:PRO:HD3	5:C:1026:GLN:HG2	2.00	0.43
6:D:1274:ILE:O	6:D:1303:TYR:CZ	2.72	0.43
2:Y:14:G:HO2'	2:Y:15:C:H5'	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:10:PHE:HD2	7:E:19:LEU:HD23	1.82	0.43
5:M:1105:LYS:O	5:M:1107:ASN:N	2.50	0.43
6:D:779:ALA:HB1	6:D:931:LEU:HD13	2.00	0.43
1:G:18:DG:H2'	1:G:19:DC:C6	2.53	0.43
5:M:141:HIS:N	5:M:141:HIS:CD2	2.86	0.43
5:M:185:LYS:HB3	5:M:188:LYS:O	2.17	0.43
4:A:178:ALA:HB1	10:C:1419:HOH:O	2.18	0.43
5:C:274:ARG:HB2	5:C:285:LEU:HD13	2.00	0.43
6:D:15:PRO:HA	6:D:18:ILE:HG12	2.00	0.43
6:D:791:TYR:CD2	6:D:945:SER:HB2	2.54	0.43
5:C:61:LYS:O	5:C:359:MET:HE1	2.18	0.43
6:D:105:VAL:HG21	6:D:128:TYR:HE1	1.84	0.43
5:M:683:ASN:HD22	5:M:689:VAL:CG2	2.31	0.43
6:N:799:LYS:HD3	10:N:8521:HOH:O	2.17	0.43
5:C:307:LEU:HD12	5:C:307:LEU:HA	1.87	0.43
6:N:481:MET:SD	6:N:1388:ARG:HB3	2.59	0.43
5:M:432:ARG:NH1	6:N:1053:PHE:CZ	2.85	0.43
6:D:1098:LEU:O	6:D:1102:THR:HG23	2.18	0.43
6:D:57:GLU:HB2	6:D:64:LYS:HG3	2.00	0.43
6:N:686:GLU:HG2	10:N:8171:HOH:O	2.17	0.43
6:N:984:THR:CG2	6:N:986:ARG:HB3	2.47	0.43
5:M:976:ASP:CB	5:M:979:THR:HG22	2.48	0.43
6:N:1264:GLU:HB3	6:N:1266:ARG:NE	2.33	0.43
6:N:1495:ILE:O	6:N:1498:ALA:HB3	2.18	0.43
5:M:838:LYS:CD	5:M:846:LYS:HZ1	2.32	0.43
5:C:971:LYS:HA	5:C:988:VAL:HA	2.00	0.43
5:M:501:THR:HG22	5:M:513:VAL:HG13	1.99	0.43
4:K:76:VAL:O	4:K:80:LEU:HB2	2.18	0.43
5:M:260:LEU:HD12	5:M:261:ILE:HG23	2.00	0.43
6:D:1220:ALA:HB1	6:D:1223:ILE:HD13	2.00	0.43
4:K:222:LEU:HD11	4:L:218:LEU:HD23	2.00	0.43
6:D:820:GLU:CB	6:D:836:VAL:HG21	2.48	0.43
6:N:657:LEU:HD13	6:N:691:LEU:CD1	2.49	0.43
5:C:480:THR:CG2	5:C:482:GLU:HB2	2.48	0.43
7:E:8:LYS:HG2	10:E:110:HOH:O	2.18	0.43
6:D:1216:SER:HB3	7:E:15:SER:OG	2.18	0.43
6:N:54:LYS:NZ	10:N:8720:HOH:O	2.51	0.43
7:E:41:GLU:N	7:E:42:PRO:CD	2.82	0.43
6:D:875:THR:HG22	6:D:879:ARG:HB2	1.99	0.43
6:D:885:ILE:H	6:D:885:ILE:HG13	1.63	0.43
5:C:939:ARG:NE	5:C:939:ARG:HA	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1440:PHE:CG	6:D:1441:GLN:N	2.86	0.43
5:C:859:PRO:HB3	5:C:974:LEU:CD2	2.45	0.43
6:N:926:LYS:HG3	10:N:8725:HOH:O	2.17	0.43
6:N:1057:VAL:HG13	6:N:1069:GLU:CG	2.49	0.43
4:K:199:ILE:HD12	4:K:199:ILE:N	2.34	0.43
6:N:850:LEU:HG	10:N:8034:HOH:O	2.19	0.43
6:N:407:VAL:HG13	10:N:8139:HOH:O	2.16	0.43
7:O:73:LEU:H	7:O:73:LEU:HD12	1.82	0.43
5:C:260:LEU:HD12	5:C:261:ILE:HG23	1.99	0.43
5:C:603:VAL:HG21	5:C:643:VAL:CG1	2.49	0.43
5:C:577:PRO:HG3	5:C:993:PHE:CD1	2.53	0.43
5:M:579:VAL:O	5:M:579:VAL:HG22	2.19	0.43
6:N:1112:CYS:SG	6:N:1195:GLN:HG2	2.59	0.43
5:C:431:HIS:CG	5:C:432:ARG:N	2.86	0.43
4:K:218:LEU:HD23	4:L:222:LEU:CD2	2.48	0.43
6:D:1330:ILE:HD12	6:D:1330:ILE:N	2.34	0.43
5:M:588:VAL:HG21	5:M:664:GLY:O	2.18	0.43
4:L:73:GLU:HB3	4:L:77:GLU:CG	2.49	0.43
6:D:1495:ILE:O	6:D:1498:ALA:HB3	2.19	0.43
5:M:941:VAL:O	5:M:944:LEU:HB2	2.18	0.43
6:N:702:LEU:O	6:N:713:ILE:HA	2.18	0.43
6:N:632:VAL:O	6:N:727:GLN:HA	2.18	0.43
5:C:253:ALA:O	5:C:256:TYR:HB2	2.19	0.43
4:B:37:GLY:HA3	4:B:179:PHE:CD1	2.53	0.43
5:M:1100:GLN:HB3	10:M:1209:HOH:O	2.17	0.43
6:N:574:LEU:O	6:N:577:ALA:HB3	2.19	0.43
6:N:577:ALA:O	6:N:580:ALA:HB3	2.17	0.43
4:K:11:PHE:CD2	4:L:228:PRO:HA	2.54	0.43
5:M:1115:LEU:HD12	5:M:1115:LEU:N	2.34	0.43
7:O:41:GLU:O	7:O:45:ARG:HB2	2.19	0.43
6:D:710:ARG:HG2	6:D:772:PRO:HG2	2.01	0.43
4:K:82:LEU:HD13	4:K:142:VAL:HG11	2.00	0.43
5:M:146:VAL:HA	5:M:161:SER:O	2.19	0.43
6:N:183:GLU:O	6:N:185:VAL:HG23	2.17	0.43
6:D:727:GLN:HB3	6:D:727:GLN:HE21	1.58	0.43
4:L:142:VAL:HG23	4:L:142:VAL:O	2.18	0.43
5:M:64:LEU:HD12	5:M:100:LEU:HD11	2.01	0.43
5:C:1090:LYS:HA	5:C:1090:LYS:HD3	1.77	0.43
6:N:781:PRO:O	6:N:786:ILE:HD11	2.18	0.43
6:D:500:ARG:HA	6:D:500:ARG:HD2	1.78	0.43
7:E:27:ALA:HB3	7:E:61:VAL:HG12	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:710:ILE:HD12	5:C:790:LEU:HB2	2.00	0.43
4:K:198:ARG:C	4:K:199:ILE:HD12	2.39	0.43
4:K:20:TYR:OH	4:K:198:ARG:NE	2.51	0.43
5:M:606:VAL:CG2	5:M:645:VAL:HG22	2.48	0.43
6:N:1397:LYS:HB2	10:N:8256:HOH:O	2.19	0.43
6:N:799:LYS:CB	6:N:826:PRO:HG2	2.43	0.43
5:C:181:VAL:HG12	5:C:182:VAL:H	1.83	0.43
6:D:645:PRO:HB3	6:D:723:GLY:O	2.18	0.43
4:K:86:VAL:HG13	4:K:86:VAL:O	2.18	0.43
4:A:1:MET:O	4:A:6:LEU:HB2	2.19	0.43
6:D:1374:GLN:OE1	6:D:1377:LYS:HD3	2.18	0.43
5:C:79:PRO:HG2	5:C:82:GLU:HB2	2.01	0.43
5:C:588:VAL:HG23	5:C:596:TYR:OH	2.18	0.43
6:N:1330:ILE:CG2	6:N:1331:ASP:N	2.82	0.43
5:M:693:GLU:HA	5:M:696:LYS:HE3	1.99	0.43
6:D:761:ILE:HD13	7:E:20:THR:HA	2.00	0.43
6:N:1353:GLN:HG2	6:N:1368:ILE:HD12	2.00	0.43
6:D:131:LYS:HB2	10:D:8122:HOH:O	2.18	0.43
6:D:452:ILE:HG23	6:D:452:ILE:O	2.18	0.43
2:H:9:G:C5'	2:H:9:G:H8	2.29	0.43
6:D:1338:ALA:HB2	10:D:8241:HOH:O	2.18	0.43
6:N:127:LEU:HD23	6:N:152:LEU:HD13	1.99	0.43
6:N:9:ARG:HG3	6:N:1455:LYS:O	2.18	0.43
4:K:96:THR:OG1	4:K:143:ARG:HD2	2.18	0.43
5:M:31:GLN:HB3	5:M:71:TYR:OH	2.18	0.43
5:C:241:LEU:HB3	10:C:1174:HOH:O	2.18	0.43
5:M:607:ASP:OD2	5:M:609:ASN:HB2	2.18	0.43
6:D:1042:ARG:NH1	6:D:1042:ARG:HB2	2.29	0.43
5:C:208:ALA:HA	5:C:221:LEU:HD21	2.00	0.43
6:D:989:TYR:CE1	6:D:993:LEU:HD21	2.54	0.43
6:D:701:LEU:N	6:D:701:LEU:HD12	2.31	0.43
6:N:1401:GLU:OE2	6:N:1402:ALA:N	2.51	0.43
5:C:269:LEU:O	5:C:269:LEU:HD23	2.18	0.43
5:M:213:ALA:HB1	10:M:1401:HOH:O	2.19	0.43
6:N:1263:PHE:CE1	6:N:1352:ILE:HD13	2.54	0.43
1:X:20:DG:H4'	5:M:394:PHE:CZ	2.54	0.43
6:D:409:VAL:HG21	6:D:421:LEU:HA	1.99	0.43
6:D:450:TYR:CG	6:D:451:ASP:N	2.85	0.43
6:N:615:ARG:NH2	6:N:1096:ARG:HD2	2.30	0.43
2:Y:2:A:P	6:N:671:LYS:NZ	2.89	0.43
2:Y:9:G:C5'	2:Y:9:G:H8	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:365:ASP:O	5:C:367:LEU:HD12	2.18	0.43
6:N:1440:PHE:O	6:N:1441:GLN:O	2.37	0.43
6:D:781:PRO:HB3	6:D:785:ILE:HG21	1.99	0.43
5:M:969:GLN:HE21	5:M:969:GLN:HB3	1.61	0.43
5:M:183:SER:CB	5:M:190:LYS:HG2	2.48	0.43
5:M:173:ASP:HB2	5:M:185:LYS:NZ	2.33	0.43
5:M:119:PRO:HG2	5:M:386:PHE:CG	2.53	0.43
6:D:977:ALA:HB3	6:D:983:LEU:HD11	2.01	0.43
5:M:65:VAL:HB	5:M:101:ILE:CB	2.39	0.43
5:C:148:PHE:HE1	5:C:309:TYR:HD2	1.64	0.43
4:K:188:GLN:HG3	4:K:189:ARG:N	2.33	0.43
5:C:408:ARG:NH1	5:C:542:VAL:HG21	2.33	0.43
5:C:580:MET:SD	5:C:584:GLU:HG3	2.58	0.43
6:N:439:LEU:HD21	10:N:8620:HOH:O	2.18	0.43
6:N:444:VAL:HG11	10:N:8414:HOH:O	2.19	0.43
5:C:208:ALA:HB1	5:C:218:VAL:HG11	1.99	0.43
6:D:1351:GLU:OE1	6:D:1354:LYS:HG3	2.19	0.43
5:M:148:PHE:HZ	5:M:309:TYR:HB3	1.83	0.43
5:C:948:GLU:OE2	5:C:962:GLN:NE2	2.52	0.43
6:N:1389:LEU:HD12	6:N:1390:LEU:HD23	2.01	0.43
6:D:842:VAL:HG13	6:D:865:THR:OG1	2.18	0.43
1:X:13:DT:OP1	6:N:1093:TYR:CE2	2.71	0.43
1:X:11:DC:H2"	1:X:12:DG:H8	1.83	0.43
6:D:650:LEU:HD13	6:D:688:TRP:HZ3	1.83	0.43
5:C:745:ILE:HD12	5:C:745:ILE:N	2.34	0.43
5:M:39:ARG:O	5:M:41:ASN:N	2.52	0.43
4:L:149:GLY:HA2	10:L:422:HOH:O	2.18	0.43
5:C:1040:LEU:HD21	5:C:1048:THR:HG22	1.99	0.43
4:A:5:LYS:HD3	10:B:424:HOH:O	2.19	0.43
4:B:86:VAL:O	4:B:86:VAL:HG13	2.19	0.43
5:C:532:MET:HG2	5:C:533:ASP:N	2.33	0.43
6:D:1105:ILE:HA	6:D:1105:ILE:HD13	1.92	0.43
7:O:70:THR:HB	7:O:72:ARG:HD3	2.00	0.43
5:C:412:ALA:O	5:C:419:THR:HG23	2.19	0.43
6:D:824:ASN:HB3	10:D:8645:HOH:O	2.18	0.43
6:D:395:VAL:HG12	6:D:396:VAL:N	2.34	0.43
6:D:396:VAL:CG2	6:D:445:ARG:HD3	2.42	0.43
6:N:54:LYS:HE3	6:N:55:ASP:HB2	2.00	0.43
6:N:751:LEU:HA	10:N:8064:HOH:O	2.18	0.43
5:M:1090:LYS:HA	5:M:1090:LYS:HD3	1.89	0.43
5:C:129:ILE:HG22	5:C:130:ASN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:205:GLU:CD	5:M:206:THR:H	2.22	0.43
4:L:87:VAL:HG21	4:L:144:VAL:CG1	2.32	0.43
4:A:208:LEU:HD11	10:B:339:HOH:O	2.18	0.43
6:D:128:TYR:CE2	6:D:458:ALA:HA	2.36	0.43
6:N:840:LYS:HG2	10:N:8344:HOH:O	2.19	0.43
5:C:260:LEU:CD1	5:C:261:ILE:HG23	2.49	0.43
6:N:800:LYS:HD2	6:N:804:LEU:CD1	2.47	0.43
6:D:838:ARG:HB3	6:D:865:THR:HG23	2.01	0.43
4:L:172:SER:HA	4:L:173:PRO:HD3	1.91	0.43
7:E:70:THR:HG21	7:E:72:ARG:NE	2.34	0.43
6:D:1378:TYR:HE1	6:D:1427:SER:HG	1.64	0.43
6:D:150:ARG:HD2	6:D:464:LEU:CD2	2.48	0.43
5:M:865:THR:O	5:M:865:THR:HG23	2.19	0.43
4:A:229:GLN:HE21	4:A:229:GLN:HB2	1.68	0.43
5:M:686:ASP:N	10:N:8443:HOH:O	2.52	0.43
6:D:165:LYS:NZ	6:D:199:LEU:HD11	2.34	0.43
6:N:615:ARG:HH12	6:N:1096:ARG:NH2	2.17	0.43
6:N:18:ILE:O	6:N:22:SER:HB3	2.19	0.43
6:D:1297:GLU:CB	6:N:47:GLU:O	2.60	0.43
6:N:703:ASN:ND2	6:N:707:THR:HG23	2.32	0.43
6:D:1209:LEU:HD22	6:D:1211:MET:HB3	2.01	0.43
5:M:1101:THR:HB	6:N:5:VAL:CG1	2.48	0.43
6:D:793:THR:O	6:D:879:ARG:NH1	2.52	0.43
5:M:952:LEU:HD12	5:M:969:GLN:OE1	2.19	0.43
6:N:36:THR:C	6:N:38:LYS:N	2.70	0.43
5:C:1092:LEU:HD21	6:D:1447:LEU:HD23	2.01	0.43
6:D:474:GLU:O	6:D:478:LEU:HG	2.18	0.43
5:C:207:LEU:HD13	5:C:221:LEU:CD1	2.49	0.43
5:C:207:LEU:HD13	5:C:221:LEU:HD13	2.00	0.43
6:N:1109:GLU:HG2	6:N:1201:CYS:CA	2.45	0.43
5:M:292:ARG:HB2	5:M:299:LYS:HE2	2.01	0.43
5:M:838:LYS:NZ	5:M:846:LYS:NZ	2.66	0.43
4:L:23:PHE:O	4:L:196:THR:HA	2.19	0.43
4:A:169:ALA:HB1	4:A:171:PHE:CZ	2.54	0.43
5:M:630:ARG:CG	5:M:630:ARG:HH11	2.32	0.43
6:N:1335:LEU:HB2	10:N:8088:HOH:O	2.18	0.43
5:C:71:TYR:H	5:C:71:TYR:HD2	1.63	0.43
5:C:550:LEU:HD11	5:C:558:ALA:HB1	2.01	0.43
6:D:1460:ILE:HG13	6:D:1460:ILE:O	2.19	0.43
4:L:179:PHE:H	4:L:179:PHE:HD2	1.67	0.43
5:C:737:LEU:HD21	5:C:741:GLY:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1273:VAL:HB	6:D:1303:TYR:CD2	2.54	0.42
6:D:1312:LEU:HG	6:D:1327:ARG:NH1	2.30	0.42
5:M:969:GLN:HE21	5:M:971:LYS:HD2	1.84	0.42
6:N:434:ARG:HB2	6:N:447:VAL:HG23	2.01	0.42
5:M:418:LEU:HD12	5:M:418:LEU:H	1.81	0.42
4:K:96:THR:N	10:K:3286:HOH:O	2.52	0.42
5:M:217:LEU:HB2	5:M:311:PHE:CE2	2.54	0.42
5:C:474:VAL:HG23	5:C:478:VAL:C	2.39	0.42
5:M:54:ILE:HD13	5:M:64:LEU:HD21	2.01	0.42
5:M:21:ILE:CG2	5:M:335:THR:HG22	2.48	0.42
5:C:277:ALA:O	5:C:281:LEU:O	2.37	0.42
5:C:1013:TYR:OH	5:C:1063:ARG:HD2	2.18	0.42
5:C:101:ILE:HG22	5:C:102:HIS:N	2.34	0.42
5:M:762:LYS:HD2	5:M:786:LYS:CB	2.43	0.42
6:N:171:LEU:HD21	6:N:192:ALA:HB1	2.00	0.42
6:N:1281:VAL:HG23	6:N:1319:VAL:CG2	2.48	0.42
5:C:603:VAL:HG21	5:C:643:VAL:HG11	1.99	0.42
6:D:1120:VAL:HG23	6:D:1188:VAL:CG1	2.48	0.42
1:X:12:DG:H2''	1:X:13:DT:O5'	2.19	0.42
6:D:974:ILE:HB	10:D:8180:HOH:O	2.18	0.42
7:O:79:LEU:CG	7:O:80:VAL:HG23	2.48	0.42
6:N:902:LEU:HB3	10:N:8313:HOH:O	2.18	0.42
6:N:443:VAL:HG13	6:N:445:ARG:NH2	2.34	0.42
4:L:149:GLY:CA	10:L:422:HOH:O	2.66	0.42
6:N:1492:LEU:HD12	6:N:1493:LYS:HE3	2.01	0.42
6:N:1296:SER:C	6:N:1298:GLY:N	2.70	0.42
5:C:922:PHE:HB3	5:C:964:LYS:NZ	2.33	0.42
4:A:105:GLY:HA3	4:A:106:PRO:HD3	1.73	0.42
4:B:163:ASN:OD1	4:B:163:ASN:N	2.50	0.42
4:A:62:LEU:HD12	4:A:62:LEU:N	2.34	0.42
6:N:588:GLY:N	10:N:8593:HOH:O	2.52	0.42
6:D:133:ILE:HG22	6:D:134:VAL:N	2.34	0.42
6:D:511:TRP:CD2	6:D:511:TRP:N	2.87	0.42
5:M:1049:LEU:CD1	5:M:1053:LEU:HD21	2.49	0.42
6:N:82:LYS:C	6:N:84:ILE:N	2.72	0.42
2:Y:16:G:O2'	6:N:704:ARG:NH2	2.53	0.42
6:N:1453:ALA:O	6:N:1455:LYS:N	2.51	0.42
5:M:203:ASP:O	5:M:207:LEU:HB2	2.19	0.42
6:D:1441:GLN:CD	6:D:1442:ASN:N	2.72	0.42
5:M:19:THR:CG2	5:M:407:LYS:HE3	2.49	0.42
5:M:31:GLN:OE1	5:M:38:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:496:LEU:O	6:D:500:ARG:HG2	2.19	0.42
5:C:235:LEU:HD11	5:C:298:PHE:CE1	2.54	0.42
5:C:541:SER:OG	5:C:542:VAL:N	2.52	0.42
5:C:206:THR:HG23	5:C:207:LEU:N	2.34	0.42
6:D:996:TRP:CE3	6:D:999:THR:HG21	2.54	0.42
5:M:813:VAL:HG22	5:M:814:GLU:N	2.34	0.42
5:M:543:ASN:O	5:M:546:LEU:HD12	2.19	0.42
5:C:1027:PHE:CE2	6:D:651:GLU:HG3	2.55	0.42
6:N:1320:GLU:O	6:N:1323:GLN:HB3	2.18	0.42
6:D:1144:LEU:HD22	6:D:1186:VAL:HG11	2.01	0.42
6:D:1401:GLU:OE2	6:D:1415:VAL:HG21	2.20	0.42
6:D:1047:LYS:HZ2	6:D:1053:PHE:HA	1.78	0.42
6:D:61:GLY:HA3	6:D:64:LYS:HZ2	1.84	0.42
4:K:101:LEU:HB3	4:K:114:PHE:CD2	2.54	0.42
5:M:533:ASP:HB3	5:M:538:GLN:NE2	2.35	0.42
5:M:523:ILE:HG23	5:M:523:ILE:O	2.20	0.42
6:D:1372:VAL:O	6:D:1375:MET:HB2	2.19	0.42
6:D:36:THR:C	6:D:38:LYS:N	2.72	0.42
6:D:600:LEU:CD1	6:D:600:LEU:H	2.29	0.42
5:M:15:LEU:N	5:M:586:ARG:NH2	2.67	0.42
4:B:16:GLN:NE2	4:B:16:GLN:HA	2.34	0.42
5:M:40:GLU:N	10:M:1250:HOH:O	2.52	0.42
6:N:1496:GLU:CD	6:N:1500:LYS:HE3	2.39	0.42
4:K:181:VAL:O	5:M:938:LYS:HD3	2.20	0.42
4:K:156:HIS:CD2	4:K:157:GLY:H	2.38	0.42
1:G:20:DG:O3'	5:C:394:PHE:CE2	2.71	0.42
7:E:2:ALA:N	10:E:163:HOH:O	2.51	0.42
6:D:165:LYS:CG	6:D:199:LEU:HD13	2.49	0.42
6:D:199:LEU:HD23	6:D:200:ASP:H	1.83	0.42
5:M:487:THR:HG22	5:M:488:ALA:N	2.34	0.42
5:M:77:PRO:HG3	10:M:1450:HOH:O	2.19	0.42
6:N:206:ARG:HG3	6:N:206:ARG:HH11	1.84	0.42
5:M:142:ARG:O	5:M:143:SER:C	2.57	0.42
5:M:603:VAL:HA	5:M:613:VAL:HG12	2.00	0.42
5:C:580:MET:HB3	5:C:584:GLU:OE1	2.19	0.42
6:N:1109:GLU:CD	6:N:1202:GLN:H	2.22	0.42
6:N:1325:LEU:HA	10:N:8650:HOH:O	2.18	0.42
5:C:166:PRO:HG2	10:C:1634:HOH:O	2.17	0.42
6:N:471:GLU:O	6:N:475:LYS:HG3	2.19	0.42
6:N:493:ARG:HG2	6:N:1390:LEU:HD12	2.00	0.42
6:N:1404:ASN:CG	6:N:1408:ILE:HD12	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:23:PHE:O	4:K:196:THR:HA	2.19	0.42
4:B:102:LYS:HD2	4:B:139:ASN:OD1	2.19	0.42
4:K:9:PRO:HG2	4:L:224:TYR:CD2	2.54	0.42
6:D:984:THR:HG23	6:D:986:ARG:H	1.85	0.42
5:M:815:LEU:HD21	5:M:820:ARG:O	2.19	0.42
5:M:854:PRO:C	5:M:856:GLU:N	2.73	0.42
4:B:115:LEU:O	4:B:115:LEU:HD12	2.18	0.42
6:D:728:LEU:HD12	10:D:8576:HOH:O	2.20	0.42
6:D:35:ARG:HB3	10:D:8341:HOH:O	2.19	0.42
4:L:175:ARG:NE	10:L:432:HOH:O	2.53	0.42
4:L:45:LEU:HD13	6:N:851:LEU:HD22	2.02	0.42
6:D:465:LEU:HD13	6:D:510:GLU:HA	2.00	0.42
2:H:10:G:C2'	2:H:11:C:H5'	2.49	0.42
2:H:5:C:C2'	2:H:6:U:C6	2.94	0.42
6:D:1281:VAL:HG11	6:D:1313:VAL:CG1	2.36	0.42
6:N:44:LEU:CD2	6:N:519:VAL:HG11	2.49	0.42
7:E:41:GLU:O	7:E:45:ARG:HB2	2.19	0.42
5:M:1112:PHE:N	5:M:1112:PHE:CD2	2.87	0.42
5:C:1003:ASP:O	6:D:724:GLN:NE2	2.52	0.42
5:M:975:TYR:CD1	5:M:975:TYR:N	2.87	0.42
5:M:437:ARG:HG2	5:M:467:ILE:O	2.19	0.42
5:M:174:LEU:HD11	10:M:1681:HOH:O	2.19	0.42
5:M:54:ILE:HG13	5:M:356:ARG:NH2	2.34	0.42
5:C:685:GLU:HG2	6:D:739:ASP:CB	2.49	0.42
6:N:699:VAL:HG22	6:N:756:GLN:HE21	1.81	0.42
5:M:1005:MET:CE	6:N:724:GLN:HA	2.49	0.42
5:C:83:CYS:SG	5:C:90:TYR:HD2	2.42	0.42
5:C:139:GLN:HA	5:C:411:SER:O	2.18	0.42
4:A:94:LEU:HD11	4:A:119:ASP:CB	2.49	0.42
5:M:759:THR:HB	5:M:785:VAL:CG1	2.49	0.42
6:N:497:GLU:O	6:N:500:ARG:HB2	2.18	0.42
4:A:31:GLY:O	4:B:42:ARG:NH2	2.50	0.42
5:M:424:GLY:HA2	5:M:427:VAL:CG2	2.47	0.42
6:D:483:HIS:ND1	6:D:483:HIS:N	2.66	0.42
6:N:562:ALA:HB1	6:N:567:ILE:CD1	2.49	0.42
6:N:1120:VAL:HB	6:N:1144:LEU:HD21	2.00	0.42
6:D:899:LEU:HD12	6:D:900:ILE:HG23	2.01	0.42
5:M:561:GLY:O	5:M:564:MET:HG2	2.20	0.42
5:C:963:LEU:HB2	10:C:1200:HOH:O	2.19	0.42
6:D:1145:TYR:HA	6:D:1171:VAL:HG21	2.01	0.42
6:N:1117:TYR:CD2	6:N:1117:TYR:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:667:ALA:HA	6:N:668:PRO:HD3	1.89	0.42
6:D:104:PHE:HB3	6:D:512:MET:SD	2.59	0.42
2:H:16:G:O2'	6:D:704:ARG:NH2	2.53	0.42
2:H:15:C:H2'	2:H:16:G:H8	1.83	0.42
2:H:7:G:C5'	2:H:7:G:H8	2.32	0.42
5:M:1014:SER:HB2	5:M:1021:LEU:HD13	2.01	0.42
2:Y:7:G:N2	5:M:1021:LEU:HD13	2.35	0.42
6:D:1481:VAL:HG12	6:D:1481:VAL:O	2.20	0.42
6:N:103:TRP:NE1	6:N:1444:THR:HG23	2.35	0.42
4:L:29:GLU:C	10:L:428:HOH:O	2.57	0.42
5:M:140:ILE:HD13	5:M:331:ARG:HH21	1.84	0.42
5:M:217:LEU:CD1	5:M:311:PHE:HA	2.48	0.42
5:C:1091:GLU:N	10:C:1319:HOH:O	2.52	0.42
6:N:1481:VAL:HG13	7:O:18:ARG:HE	1.84	0.42
5:C:1105:LYS:HD2	5:C:1107:ASN:ND2	2.35	0.42
5:C:290:LEU:HB3	5:C:302:VAL:HG12	1.98	0.42
6:N:206:ARG:NE	6:N:394:LEU:HD13	2.34	0.42
5:C:756:VAL:HG21	5:C:823:VAL:HG11	2.02	0.42
6:D:513:ILE:HG13	6:D:513:ILE:H	1.62	0.42
5:C:141:HIS:O	5:C:331:ARG:HA	2.18	0.42
5:C:408:ARG:NH1	5:C:542:VAL:CG2	2.83	0.42
5:C:901:TYR:CE2	5:C:917:LEU:HD13	2.55	0.42
5:M:679:PHE:HB2	5:M:683:ASN:HD21	1.83	0.42
5:C:1009:SER:OG	5:C:1010:THR:N	2.51	0.42
5:M:625:LEU:CD1	5:M:641:PRO:HG3	2.50	0.42
6:D:1488:ASP:N	6:D:1488:ASP:OD1	2.52	0.42
5:M:785:VAL:HA	10:M:1610:HOH:O	2.18	0.42
7:E:54:LEU:HA	7:E:58:PRO:CD	2.49	0.42
6:D:921:ARG:HB3	6:D:922:LEU:HD23	2.00	0.42
5:C:833:LEU:HD11	5:C:839:LEU:HD21	2.01	0.42
7:E:86:GLN:HG3	10:E:158:HOH:O	2.19	0.42
5:M:937:ASP:HB2	5:M:940:GLU:HG3	2.01	0.42
6:N:1141:GLU:HB3	6:N:1168:MET:CE	2.49	0.42
6:D:776:GLU:HB3	6:D:912:LYS:CE	2.50	0.42
5:M:1042:ALA:HB1	10:N:8225:HOH:O	2.20	0.42
5:M:817:PRO:HG3	10:M:1295:HOH:O	2.19	0.42
6:D:168:THR:HG23	6:D:206:ARG:HH12	1.84	0.42
6:D:397:LYS:O	6:D:447:VAL:HA	2.18	0.42
6:D:465:LEU:HD21	6:D:509:PRO:O	2.20	0.42
6:D:1326:THR:HG22	6:D:1327:ARG:N	2.34	0.42
6:N:127:LEU:CD2	6:N:461:ILE:HD11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:9:LEU:HB3	7:E:19:LEU:HD21	2.01	0.42
5:C:365:ASP:O	5:C:367:LEU:N	2.53	0.42
5:M:437:ARG:NH2	5:M:491:GLU:OE2	2.52	0.42
6:N:32:ILE:HD13	6:N:37:LEU:O	2.20	0.42
6:D:102:ILE:HD11	6:D:586:ARG:HB2	2.00	0.42
4:A:24:VAL:HG22	4:A:196:THR:HG22	2.01	0.42
6:D:1381:VAL:HB	6:D:1389:LEU:O	2.19	0.42
6:N:890:VAL:HG23	6:N:890:VAL:O	2.20	0.42
5:C:196:LEU:O	5:C:199:VAL:HB	2.19	0.42
5:C:274:ARG:NE	5:C:278:GLU:OE2	2.52	0.42
5:C:791:ARG:NH1	5:C:791:ARG:HG2	2.35	0.42
6:N:1044:LEU:HD21	6:N:1056:PRO:HG3	2.01	0.42
4:B:206:THR:HG23	4:B:208:LEU:N	2.29	0.42
4:A:75:VAL:HA	4:A:78:ILE:HD12	2.02	0.42
5:C:611:ILE:CG1	5:C:625:LEU:HD21	2.48	0.42
4:B:178:ALA:O	4:B:197:LEU:HA	2.20	0.42
5:C:910:LYS:HB3	5:C:912:PRO:HD2	2.01	0.42
4:A:57:TYR:HD2	4:A:141:GLU:OE1	2.03	0.42
5:C:568:ALA:HB3	5:C:668:LEU:HD22	2.00	0.42
6:N:774:SER:C	6:N:776:GLU:H	2.23	0.42
5:C:510:ALA:N	10:C:1228:HOH:O	2.53	0.42
5:M:22:GLN:HE21	5:M:22:GLN:HB3	1.58	0.42
6:N:897:TRP:HH2	10:N:8013:HOH:O	2.03	0.42
5:M:287:GLY:O	5:M:288:ARG:C	2.57	0.42
5:C:805:ARG:HB3	5:C:805:ARG:HH11	1.85	0.42
6:D:1159:ARG:HH11	6:D:1159:ARG:HG3	1.83	0.42
1:X:8:DT:H2"	1:X:9:DG:C8	2.54	0.42
6:D:165:LYS:N	6:D:397:LYS:N	2.68	0.42
5:M:1014:SER:O	5:M:1018:GLN:OE1	2.38	0.42
5:M:1060:ILE:HD13	5:M:1063:ARG:NH2	2.35	0.42
6:N:704:ARG:CB	6:N:736:PHE:HB3	2.49	0.42
5:M:946:ARG:HH22	6:N:861:GLN:NE2	2.17	0.42
6:D:1476:THR:C	6:D:1478:SER:H	2.22	0.42
5:M:1095:LEU:HD23	6:N:582:LEU:CD2	2.49	0.42
6:N:1451:ALA:O	6:N:1452:ILE:C	2.57	0.42
6:N:628:ARG:HB2	10:N:8477:HOH:O	2.19	0.42
6:N:789:LEU:HD13	6:N:934:LEU:HD22	2.00	0.42
6:D:1154:GLU:OE1	6:N:159:ARG:NH2	2.52	0.42
6:N:1066:THR:OG1	6:N:1067:VAL:N	2.53	0.42
5:C:957:LYS:HD3	5:C:961:GLU:CB	2.43	0.42
6:D:494:LYS:NZ	10:D:8470:HOH:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:768:THR:HA	5:M:769:PRO:HD3	1.87	0.42
6:D:1432:LYS:HG2	10:D:8215:HOH:O	2.18	0.42
5:C:578:VAL:HG11	5:C:991:GLN:NE2	2.35	0.42
5:M:1071:ILE:HG23	6:N:670:VAL:HG11	2.00	0.42
1:G:8:DT:H2"	1:G:9:DG:C8	2.55	0.42
6:D:1033:GLN:NE2	6:D:1036:ARG:NH1	2.67	0.42
6:D:93:ILE:HD13	6:D:548:ILE:HD11	2.02	0.42
5:C:287:GLY:O	5:C:288:ARG:C	2.57	0.42
5:C:833:LEU:HD11	5:C:839:LEU:CD2	2.50	0.42
5:C:950:LEU:HD21	6:D:1017:PHE:HB3	2.02	0.42
4:K:215:VAL:HG13	4:L:222:LEU:HB3	2.01	0.42
3:I:8:DA:H2"	3:I:9:DG:OP2	2.19	0.42
5:C:817:PRO:O	6:D:532:GLY:HA2	2.20	0.42
6:N:112:ILE:O	6:N:112:ILE:HD12	2.20	0.42
5:C:1104:GLU:HA	5:C:1104:GLU:OE1	2.20	0.42
5:M:237:ARG:CG	5:M:237:ARG:HH11	2.33	0.42
6:N:1405:GLU:O	6:N:1405:GLU:HG3	2.19	0.42
6:D:1234:THR:HG22	6:D:1234:THR:O	2.20	0.42
4:B:129:ILE:HG13	10:B:440:HOH:O	2.18	0.42
4:L:10:VAL:HG12	4:L:12:THR:HG22	2.02	0.42
6:D:202:VAL:CG1	6:D:445:ARG:HE	2.29	0.42
6:N:615:ARG:O	6:N:619:LEU:HG	2.19	0.42
6:N:87:ARG:HD2	6:N:88:TYR:CE2	2.55	0.42
6:N:135:LEU:HD23	6:N:453:ASP:O	2.20	0.42
6:N:749:VAL:HA	6:N:750:PRO:HD3	1.86	0.42
5:M:969:GLN:HB3	5:M:971:LYS:HG3	2.01	0.42
5:C:876:VAL:O	5:C:879:ARG:O	2.38	0.42
5:M:474:VAL:HA	5:M:478:VAL:O	2.19	0.42
5:C:235:LEU:HD11	5:C:298:PHE:CZ	2.54	0.42
4:K:170:VAL:O	4:K:170:VAL:HG23	2.19	0.42
5:C:172:ILE:HG22	5:C:173:ASP:N	2.35	0.42
5:M:600:ASP:HB2	10:M:1538:HOH:O	2.19	0.42
6:D:970:LYS:HB2	10:D:8304:HOH:O	2.19	0.42
5:M:449:ILE:C	5:M:451:LEU:H	2.23	0.42
4:L:206:THR:HG22	4:L:209:GLU:CB	2.48	0.42
5:M:350:ARG:HA	5:M:353:ARG:NE	2.32	0.42
5:C:34:VAL:CG1	5:C:38:LYS:HG3	2.50	0.42
5:C:143:SER:O	5:C:145:GLY:N	2.52	0.42
6:D:1206:GLY:HA3	6:D:1366:LYS:HZ1	1.85	0.42
6:D:1372:VAL:HA	6:D:1375:MET:HE2	2.02	0.42
5:C:952:LEU:HB3	5:C:966:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:163:ASN:ND2	5:C:744:ARG:HH21	2.18	0.42
5:M:435:TYR:HA	6:N:1071:PHE:HE2	1.84	0.42
5:C:230:ARG:HH11	5:C:230:ARG:HG2	1.84	0.42
6:D:1152:GLU:HG2	6:D:1160:LEU:O	2.19	0.42
6:D:181:ASP:HB3	6:D:441:ARG:CG	2.50	0.42
6:D:465:LEU:HD11	6:D:509:PRO:O	2.20	0.42
6:N:619:LEU:O	6:N:620:GLY:C	2.58	0.42
2:H:7:G:H5"	2:H:7:G:C8	2.55	0.42
5:M:207:LEU:HG	10:M:1268:HOH:O	2.20	0.42
5:M:305:PRO:HA	5:M:308:ARG:HB2	2.01	0.42
5:C:474:VAL:HA	5:C:478:VAL:O	2.20	0.42
5:M:118:ILE:HA	5:M:119:PRO:HD3	1.84	0.42
1:G:11:DC:H2"	1:G:12:DG:H8	1.83	0.42
6:D:1231:GLU:HG2	6:D:1232:PRO:N	2.35	0.42
6:D:787:LEU:HB2	6:D:1028:ALA:HB2	2.02	0.42
6:D:486:ARG:HE	6:D:486:ARG:HB2	1.63	0.42
5:C:284:ARG:HG2	5:C:285:LEU:H	1.83	0.42
4:K:61:VAL:HB	10:K:1038:HOH:O	2.20	0.42
5:C:551:GLU:O	6:D:1065:LEU:HB3	2.19	0.42
5:C:921:ALA:HB3	5:C:967:PHE:HE2	1.85	0.42
6:D:1156:LEU:CD1	6:D:1176:LYS:HE3	2.46	0.42
5:C:643:VAL:CG2	5:C:655:LEU:HA	2.50	0.42
5:C:570:PRO:HD2	5:C:635:THR:CG2	2.50	0.42
5:C:838:LYS:HG3	5:C:997:LEU:HB2	2.02	0.42
6:N:800:LYS:CD	6:N:804:LEU:HD22	2.49	0.42
4:A:161:ARG:HB2	4:A:161:ARG:CZ	2.49	0.42
4:B:78:ILE:HD13	10:B:437:HOH:O	2.20	0.42
5:M:290:LEU:HB3	5:M:302:VAL:HG11	2.01	0.42
5:C:984:GLU:HA	10:C:1190:HOH:O	2.20	0.42
4:L:59:GLU:HG2	4:L:139:ASN:O	2.20	0.42
4:K:39:PRO:HG3	4:L:39:PRO:CG	2.49	0.42
6:D:1031:ASN:HB3	6:D:1034:GLN:CG	2.49	0.42
5:C:922:PHE:CZ	5:C:963:LEU:HB3	2.55	0.42
5:M:243:ARG:N	10:M:1563:HOH:O	2.53	0.42
5:C:841:ASN:C	5:C:841:ASN:HD22	2.23	0.42
6:N:1376:MET:HE2	6:N:1421:LEU:HD13	2.02	0.42
6:N:1377:LYS:HE2	6:N:1378:TYR:OH	2.20	0.42
6:N:1145:TYR:CD1	6:N:1145:TYR:C	2.92	0.42
6:D:1496:GLU:CD	6:D:1500:LYS:HE3	2.40	0.42
5:M:27:ARG:NH1	10:M:1630:HOH:O	2.53	0.42
5:C:234:ALA:HA	5:C:237:ARG:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:65:PHE:HE1	5:C:799:ILE:HB	1.85	0.42
6:N:87:ARG:HB3	6:N:523:ASP:OD2	2.20	0.42
2:Y:7:G:H21	5:M:1021:LEU:CD2	2.33	0.42
5:C:1050:GLN:CB	10:C:1713:HOH:O	2.67	0.42
6:N:1061:PHE:CE1	6:N:1065:LEU:HD22	2.54	0.42
5:M:903:SER:OG	5:M:908:GLY:HA3	2.19	0.42
1:G:10:DG:H2"	1:G:11:DC:OP2	2.19	0.42
5:M:49:ARG:HD2	5:M:68:PHE:HD2	1.85	0.42
5:C:428:ARG:NH1	5:C:447:ALA:O	2.53	0.42
5:M:612:VAL:HG22	5:M:622:GLU:CB	2.50	0.42
5:M:643:VAL:HG13	5:M:647:GLN:CD	2.39	0.42
6:N:987:GLU:O	6:N:991:GLN:HB2	2.20	0.42
6:D:1366:LYS:O	6:D:1369:GLU:HB2	2.20	0.42
6:D:1369:GLU:HA	6:D:1372:VAL:CG1	2.49	0.42
5:C:1096:ALA:N	10:C:1577:HOH:O	2.52	0.42
5:M:496:ILE:HD12	5:M:496:ILE:N	2.34	0.42
6:N:550:ARG:HH11	6:N:550:ARG:HG2	1.84	0.42
6:N:658:LEU:O	6:N:661:MET:HB2	2.20	0.42
6:D:901:GLN:H	6:D:901:GLN:HG2	1.69	0.42
5:M:493:ARG:HG3	5:M:493:ARG:H	1.68	0.42
2:H:2:A:C8	2:H:2:A:C3'	3.03	0.41
6:D:1293:PHE:CD2	6:N:75:ARG:HB2	2.55	0.41
6:N:28:LYS:CG	6:N:29:PRO:HD2	2.48	0.41
6:N:545:ARG:HB2	10:N:8524:HOH:O	2.20	0.41
5:M:766:GLU:OE2	6:N:54:LYS:HE2	2.20	0.41
10:M:1414:HOH:O	6:N:6:ARG:CB	2.68	0.41
5:M:676:ILE:O	5:M:676:ILE:HG23	2.20	0.41
5:M:433:THR:O	5:M:437:ARG:HD2	2.20	0.41
5:C:1016:ILE:CD1	5:C:1016:ILE:N	2.80	0.41
5:M:557:ARG:HE	5:M:879:ARG:NE	2.17	0.41
5:C:473:ARG:HG3	5:C:474:VAL:N	2.35	0.41
5:M:18:LEU:HD22	5:M:404:LEU:HD21	2.02	0.41
5:C:872:ASN:ND2	5:C:874:LEU:HB2	2.35	0.41
6:N:890:VAL:HG11	6:N:922:LEU:CD1	2.49	0.41
6:D:850:LEU:HA	6:D:853:VAL:HG23	2.01	0.41
6:N:204:LEU:HB2	6:N:394:LEU:CD2	2.50	0.41
5:C:810:ASP:HB3	5:C:813:VAL:CG1	2.49	0.41
5:C:580:MET:HG3	5:C:901:TYR:O	2.20	0.41
5:M:874:LEU:HD22	6:N:1029:ARG:HB2	2.02	0.41
5:C:218:VAL:HG23	5:C:311:PHE:CE1	2.49	0.41
5:M:810:ASP:HA	5:M:811:PRO:HD3	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1135:ARG:HD2	6:D:1139:ASP:HB2	2.02	0.41
6:D:1401:GLU:CD	6:D:1415:VAL:HG11	2.39	0.41
6:N:1192:LEU:HD22	6:N:1345:GLU:CG	2.48	0.41
6:D:968:ASP:O	6:D:971:LEU:HB3	2.20	0.41
5:C:577:PRO:HG3	5:C:993:PHE:CZ	2.55	0.41
6:N:1283:ILE:HB	6:N:1315:ASP:OD1	2.20	0.41
5:C:1056:LYS:HD3	6:D:623:VAL:HG13	2.01	0.41
5:C:1074:GLU:CG	5:C:1075:ASP:H	2.28	0.41
7:E:28:GLN:CB	7:E:32:ARG:HH12	2.32	0.41
6:N:1494:ALA:HB1	7:O:88:GLU:OE2	2.19	0.41
5:M:564:MET:HG3	5:M:565:GLN:N	2.35	0.41
4:L:24:VAL:HG22	4:L:196:THR:CG2	2.50	0.41
1:G:7:DC:C6	1:G:8:DT:H72	2.55	0.41
6:D:1393:GLN:HB2	6:D:1398:TRP:CZ2	2.55	0.41
6:N:688:TRP:CE3	6:N:688:TRP:HA	2.54	0.41
4:K:156:HIS:CD2	4:K:158:ILE:HG12	2.56	0.41
4:K:83:LYS:HD3	4:K:168:ASP:HB2	2.01	0.41
6:D:1297:GLU:C	6:N:47:GLU:CB	2.89	0.41
6:D:1297:GLU:H	6:N:47:GLU:C	2.22	0.41
5:M:1018:GLN:NE2	5:M:1063:ARG:HH22	2.17	0.41
5:C:355:VAL:HG23	5:C:372:LEU:O	2.20	0.41
6:N:111:LYS:NZ	6:N:498:VAL:HG22	2.34	0.41
4:A:181:VAL:HG12	5:C:938:LYS:NZ	2.35	0.41
4:L:80:LEU:CD2	6:N:867:ARG:HB2	2.47	0.41
5:C:929:ARG:NE	10:C:1721:HOH:O	2.53	0.41
6:N:781:PRO:HB3	6:N:785:ILE:HG21	2.01	0.41
6:D:1389:LEU:CG	6:D:1390:LEU:N	2.83	0.41
5:C:300:ASP:O	5:C:300:ASP:CG	2.58	0.41
5:C:332:ARG:CZ	5:C:464:LEU:HD11	2.50	0.41
6:D:1459:LEU:HD23	6:D:1465:ASN:HA	2.01	0.41
5:M:606:VAL:CG2	5:M:645:VAL:HG13	2.45	0.41
5:C:695:LEU:HD21	5:C:832:LYS:HD3	2.02	0.41
4:B:65:PHE:CE1	6:D:813:LEU:HD13	2.54	0.41
6:D:109:PRO:HA	10:D:8470:HOH:O	2.20	0.41
5:C:516:ARG:CD	5:C:521:PRO:HA	2.51	0.41
6:D:1098:LEU:CD2	6:D:1229:ILE:HB	2.50	0.41
5:C:578:VAL:HG13	5:C:671:ASN:CG	2.41	0.41
6:D:686:GLU:HG3	6:D:686:GLU:H	1.50	0.41
6:N:436:GLU:HB2	6:N:445:ARG:HG2	2.02	0.41
6:N:729:HIS:HB3	6:N:732:VAL:HG22	2.01	0.41
4:L:123:MET:H	4:L:123:MET:HG2	1.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:574:ALA:HB1	5:C:667:ALA:HB3	2.01	0.41
6:D:637:LEU:HD11	6:D:642:CYS:CA	2.51	0.41
4:B:221:HIS:HA	4:B:224:TYR:HD2	1.84	0.41
6:D:30:GLU:HB3	6:D:40:GLU:HG2	2.02	0.41
6:D:1048:PRO:HD2	10:D:8741:HOH:O	2.19	0.41
6:N:1378:TYR:CD1	6:N:1378:TYR:N	2.89	0.41
6:N:643:GLY:HA3	6:N:727:GLN:HG3	2.01	0.41
4:K:41:ARG:HH11	4:K:41:ARG:HG3	1.85	0.41
6:N:1078:ARG:HD3	6:N:1078:ARG:HA	1.83	0.41
4:B:153:ALA:HA	4:B:156:HIS:CE1	2.56	0.41
5:M:930:LYS:HE3	5:M:960:GLU:OE1	2.19	0.41
2:Y:8:C:HO2'	2:Y:9:G:H5'	1.85	0.41
5:M:1056:LYS:HD3	6:N:623:VAL:HG13	2.02	0.41
6:N:1465:ASN:HD21	6:N:1470:ARG:HD3	1.86	0.41
6:N:111:LYS:HZ1	6:N:498:VAL:HG22	1.85	0.41
6:N:101:HIS:CE1	6:N:582:LEU:HD13	2.55	0.41
6:D:785:ILE:O	6:D:789:LEU:HG	2.21	0.41
1:G:17:DC:H4'	6:D:628:ARG:NE	2.34	0.41
5:M:333:ILE:HG12	5:M:410:ILE:HD13	2.02	0.41
5:M:190:LYS:HB2	10:M:1235:HOH:O	2.19	0.41
5:M:221:LEU:HD12	5:M:221:LEU:C	2.41	0.41
4:L:89:PHE:HB3	4:L:94:LEU:HD12	2.02	0.41
5:C:546:LEU:HA	5:C:581:THR:OG1	2.19	0.41
5:C:141:HIS:CG	5:C:418:LEU:HD23	2.55	0.41
6:N:1019:PRO:HB3	10:N:8024:HOH:O	2.20	0.41
6:D:813:LEU:HB2	6:D:839:LEU:HD21	2.01	0.41
5:M:399:ASN:ND2	5:M:668:LEU:HD23	2.35	0.41
7:E:26:ARG:HE	7:E:30:LEU:CD1	2.33	0.41
6:N:1046:GLN:H	6:N:1046:GLN:HG2	1.57	0.41
5:C:95:TYR:HE2	10:C:1310:HOH:O	2.03	0.41
5:C:983:ILE:HG21	5:C:987:ILE:HD11	2.02	0.41
5:M:260:LEU:CD1	5:M:261:ILE:HG23	2.50	0.41
5:M:224:GLU:OE2	5:M:227:PHE:CE1	2.73	0.41
5:M:841:ASN:HD21	5:M:845:ASN:CB	2.34	0.41
5:C:767:PRO:CB	5:C:772:ARG:HH21	2.32	0.41
4:L:95:GLN:HE21	4:L:95:GLN:HB2	1.62	0.41
6:N:1307:LYS:HG3	6:N:1307:LYS:H	1.62	0.41
5:M:722:ILE:O	5:M:722:ILE:HG23	2.20	0.41
5:M:742:VAL:HG12	10:M:1297:HOH:O	2.19	0.41
6:D:133:ILE:O	6:D:152:LEU:CA	2.68	0.41
6:D:704:ARG:CB	6:D:736:PHE:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:1481:VAL:HG11	7:E:18:ARG:CA	2.36	0.41
6:N:12:LEU:CD2	6:N:13:ALA:H	2.33	0.41
4:B:87:VAL:HG21	4:B:144:VAL:CG1	2.34	0.41
5:M:676:ILE:O	6:N:948:THR:HG22	2.21	0.41
5:C:292:ARG:HA	10:C:1492:HOH:O	2.20	0.41
6:N:926:LYS:O	6:N:929:ARG:HB2	2.20	0.41
5:C:191:PHE:HD1	10:C:1215:HOH:O	2.04	0.41
5:C:328:LEU:HB2	5:C:433:THR:HG21	2.02	0.41
4:K:206:THR:HG23	4:K:208:LEU:H	1.86	0.41
6:D:814:ALA:C	6:D:818:ARG:HE	2.24	0.41
7:E:26:ARG:NE	7:E:30:LEU:HD12	2.36	0.41
5:M:700:TYR:CB	5:M:833:LEU:HD22	2.50	0.41
6:N:770:LEU:HD22	6:N:775:GLY:O	2.21	0.41
6:N:1144:LEU:HA	6:N:1147:ARG:HG3	2.02	0.41
6:D:1494:ALA:HB1	7:E:88:GLU:OE2	2.20	0.41
5:C:432:ARG:HG2	5:C:432:ARG:H	1.69	0.41
4:L:115:LEU:O	4:L:115:LEU:HD12	2.20	0.41
5:C:886:LEU:HD13	6:D:951:ILE:HG13	2.02	0.41
5:C:122:THR:HG22	5:C:123:GLU:N	2.35	0.41
5:M:113:VAL:N	10:M:1549:HOH:O	2.51	0.41
5:M:575:GLN:OE1	5:M:670:GLN:HB3	2.19	0.41
4:A:202:ASP:HB3	10:A:342:HOH:O	2.21	0.41
6:N:1163:GLY:HA3	10:N:8154:HOH:O	2.20	0.41
6:D:113:GLY:O	6:D:116:LEU:O	2.38	0.41
6:D:137:PRO:HD2	6:D:453:ASP:CG	2.41	0.41
6:D:159:ARG:O	6:D:163:TYR:CE1	2.74	0.41
6:D:161:LEU:HD22	6:D:452:ILE:HD13	2.03	0.41
6:D:1273:VAL:O	6:D:1273:VAL:HG23	2.19	0.41
6:N:39:PRO:HG2	6:N:47:GLU:CD	2.40	0.41
6:D:141:ILE:CG1	6:D:448:GLU:O	2.66	0.41
5:C:854:PRO:C	5:C:856:GLU:N	2.73	0.41
6:N:701:LEU:N	6:N:701:LEU:CD1	2.82	0.41
5:M:677:MET:HG2	5:M:987:ILE:HG21	2.02	0.41
5:M:194:VAL:CG2	5:M:221:LEU:HA	2.51	0.41
5:M:228:ALA:HB2	10:M:1449:HOH:O	2.20	0.41
6:D:525:ARG:HA	6:D:526:PRO:HD3	1.83	0.41
6:D:84:ILE:HG13	6:D:85:VAL:N	2.35	0.41
6:N:1484:THR:O	7:O:25:LYS:HD3	2.21	0.41
4:L:83:LYS:HB2	6:N:844:ALA:CB	2.51	0.41
6:N:163:TYR:HB2	6:N:166:GLN:HG3	2.01	0.41
5:C:756:VAL:O	5:C:789:SER:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:108:VAL:HB	6:N:109:PRO:CD	2.43	0.41
6:D:880:ILE:HD13	6:D:880:ILE:O	2.21	0.41
6:N:437:VAL:HG11	10:N:8620:HOH:O	2.20	0.41
5:M:857:ASP:CG	5:M:978:ARG:HG2	2.41	0.41
5:C:260:LEU:HD12	5:C:261:ILE:HG13	2.02	0.41
5:C:166:PRO:HD2	10:C:1274:HOH:O	2.21	0.41
7:E:26:ARG:HD3	7:E:73:LEU:HD21	2.02	0.41
6:D:1161:GLU:CG	6:D:1164:ARG:HB2	2.46	0.41
4:K:81:ASN:ND2	4:K:127:LEU:HD11	2.36	0.41
6:N:1025:GLN:HA	6:N:1025:GLN:NE2	2.32	0.41
5:M:770:GLU:HG3	6:N:65:ARG:HH21	1.83	0.41
6:D:634:GLY:O	6:D:637:LEU:HB3	2.19	0.41
6:D:1365:ASP:O	6:D:1369:GLU:HG3	2.21	0.41
4:A:48:ILE:HG13	4:A:48:ILE:H	1.66	0.41
6:D:33:ASN:HB2	6:D:40:GLU:CD	2.41	0.41
5:C:73:LEU:HB3	5:C:94:LEU:HB2	2.01	0.41
6:N:1001:GLU:O	6:N:1004:THR:HB	2.19	0.41
6:D:65:ARG:HA	6:D:65:ARG:HD2	1.93	0.41
6:N:477:LEU:HD22	6:N:492:ALA:HB1	2.03	0.41
4:A:115:LEU:HD12	4:A:116:PRO:HD2	2.01	0.41
4:B:76:VAL:O	4:B:80:LEU:HB2	2.19	0.41
5:C:692:GLU:HG3	10:C:1201:HOH:O	2.20	0.41
6:D:958:GLU:HG2	10:D:8492:HOH:O	2.21	0.41
5:C:1034:GLU:HA	5:C:1037:VAL:CG2	2.49	0.41
5:M:1091:GLU:HA	6:N:520:LEU:CD1	2.51	0.41
6:N:538:SER:C	6:N:540:LEU:N	2.73	0.41
4:B:28:LEU:O	4:B:29:GLU:O	2.38	0.41
4:B:29:GLU:HB3	4:B:30:ARG:H	1.69	0.41
6:N:456:MET:O	6:N:456:MET:HG3	2.20	0.41
6:N:12:LEU:HD23	6:N:13:ALA:H	1.85	0.41
6:D:879:ARG:CG	6:D:879:ARG:HH11	2.34	0.41
5:M:469:THR:OG1	5:M:470:PRO:HD2	2.21	0.41
6:N:191:LEU:HD22	6:N:393:ILE:CD1	2.48	0.41
6:D:481:MET:SD	6:D:496:LEU:HD23	2.59	0.41
6:D:489:ARG:HH21	6:D:1389:LEU:HD11	1.86	0.41
5:C:654:LEU:HD23	5:C:654:LEU:N	2.22	0.41
5:C:196:LEU:HD23	5:C:200:LEU:HD11	2.02	0.41
5:C:200:LEU:HD13	5:C:300:ASP:OD1	2.21	0.41
5:C:195:LEU:CG	5:C:238:LEU:HG	2.50	0.41
5:M:95:TYR:CE2	5:M:114:PHE:HB3	2.55	0.41
5:C:450:GLY:HA2	6:D:1078:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:864:VAL:HA	10:N:8288:HOH:O	2.21	0.41
6:D:1457:ASP:O	6:D:1459:LEU:HD12	2.20	0.41
6:D:513:ILE:HA	10:D:8073:HOH:O	2.21	0.41
5:M:606:VAL:CG1	10:M:1141:HOH:O	2.68	0.41
6:D:826:PRO:HB3	10:D:8520:HOH:O	2.20	0.41
4:B:198:ARG:HG2	10:B:359:HOH:O	2.19	0.41
5:M:274:ARG:NH2	5:M:284:ARG:HG3	2.35	0.41
5:C:606:VAL:HG23	5:C:645:VAL:HG13	2.01	0.41
6:N:402:PRO:HA	6:N:443:VAL:HG23	2.03	0.41
6:N:1122:LEU:N	6:N:1122:LEU:HD12	2.36	0.41
4:K:112:ARG:NH2	4:K:125:PRO:HB2	2.36	0.41
6:N:729:HIS:O	6:N:732:VAL:HG23	2.20	0.41
5:C:1045:ALA:HB1	5:C:1048:THR:HB	2.01	0.41
5:C:528:GLU:HA	10:C:1387:HOH:O	2.20	0.41
7:O:70:THR:HB	7:O:72:ARG:CD	2.50	0.41
6:N:1110:ALA:O	6:N:1112:CYS:N	2.54	0.41
6:D:93:ILE:HG13	6:D:519:VAL:CG2	2.51	0.41
5:C:753:ASP:O	5:C:792:VAL:HG23	2.20	0.41
6:D:774:SER:C	6:D:776:GLU:H	2.23	0.41
6:N:401:TYR:CD1	6:N:401:TYR:N	2.88	0.41
5:M:340:MET:C	5:M:340:MET:SD	2.99	0.41
4:B:45:LEU:HA	4:B:45:LEU:HD23	1.89	0.41
6:D:541:ASN:O	6:D:545:ARG:HG3	2.20	0.41
4:K:4:SER:N	10:K:2772:HOH:O	2.53	0.41
5:M:743:VAL:HG11	5:M:800:VAL:HG21	2.02	0.41
6:D:426:LYS:CE	6:D:427:VAL:HG23	2.49	0.41
6:N:615:ARG:HH12	6:N:1096:ARG:CZ	2.32	0.41
6:N:83:SER:HB2	10:N:8440:HOH:O	2.20	0.41
2:Y:8:C:C2'	2:Y:9:G:C8	3.03	0.41
6:D:145:VAL:HG22	6:D:146:PRO:CD	2.46	0.41
5:M:1105:LYS:HE2	10:M:1392:HOH:O	2.21	0.41
5:C:129:ILE:HG12	5:C:386:PHE:HB3	2.02	0.41
5:C:292:ARG:NH2	5:C:294:GLU:OE2	2.54	0.41
5:C:292:ARG:CB	5:C:299:LYS:HG2	2.51	0.41
5:C:1088:LEU:HD21	6:D:614:PHE:CE1	2.56	0.41
5:C:56:GLU:OE1	5:C:359:MET:SD	2.79	0.41
5:M:318:PRO:HB3	10:M:1262:HOH:O	2.19	0.41
5:M:274:ARG:HG2	5:M:285:LEU:HD13	2.02	0.41
6:N:800:LYS:CD	6:N:804:LEU:HD13	2.48	0.41
6:N:1384:PRO:HG3	6:N:1389:LEU:HA	2.03	0.41
5:C:798:GLY:HA3	5:C:829:GLN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:1491:THR:HG22	6:N:1495:ILE:HD13	2.02	0.41
6:D:1189:ARG:HG3	6:D:1189:ARG:NH1	2.35	0.41
5:C:58:ASP:N	10:C:1743:HOH:O	2.47	0.41
3:I:8:DA:H1'	3:I:9:DG:C5'	2.51	0.41
6:D:170:PRO:HG2	10:D:8553:HOH:O	2.21	0.41
6:N:1146:GLY:HA3	6:N:1207:TYR:HB2	2.03	0.41
6:N:1145:TYR:CD1	6:N:1146:GLY:N	2.88	0.41
7:O:31:LEU:HD21	7:O:60:ALA:HB2	2.02	0.41
7:E:80:VAL:HB	7:E:85:LEU:HD12	2.01	0.41
2:H:11:C:C2'	2:H:12:G:H5''	2.51	0.41
6:D:1304:LYS:C	6:D:1305:LEU:HD23	2.41	0.41
6:N:124:GLU:HG3	6:N:128:TYR:CD1	2.55	0.41
6:N:128:TYR:OH	6:N:461:ILE:HG21	2.21	0.41
6:N:1448:THR:O	6:N:1452:ILE:HD12	2.21	0.41
6:N:502:PHE:CE1	6:N:1452:ILE:HG23	2.56	0.41
5:C:837:ASP:O	5:C:848:VAL:HG13	2.21	0.41
5:M:352:ALA:HA	5:M:355:VAL:HG12	2.02	0.41
7:O:92:LEU:CD1	10:O:1649:HOH:O	2.50	0.41
5:C:290:LEU:HD12	10:C:1364:HOH:O	2.19	0.41
6:N:159:ARG:HG2	6:N:163:TYR:OH	2.21	0.41
5:C:758:ARG:NH2	5:C:788:THR:HB	2.35	0.41
5:C:449:ILE:HG21	6:D:1082:ALA:HA	2.02	0.41
4:K:20:TYR:CE2	4:K:198:ARG:HB2	2.55	0.41
5:C:65:VAL:O	5:C:101:ILE:HG12	2.20	0.41
6:N:1397:LYS:HA	6:N:1400:VAL:HG23	2.02	0.41
6:D:1176:LYS:HE2	6:D:1176:LYS:HB3	1.90	0.41
5:C:221:LEU:HD11	10:C:1368:HOH:O	2.20	0.41
6:D:1258:ARG:HG3	6:D:1262:LEU:HD22	2.02	0.41
5:M:200:LEU:HD23	5:M:298:PHE:HB2	2.03	0.41
6:N:1275:SER:OG	6:N:1325:LEU:HD13	2.21	0.41
5:C:260:LEU:HD21	5:C:293:PHE:CE1	2.56	0.41
5:C:569:VAL:HA	5:C:570:PRO:HD3	1.85	0.41
6:D:1487:VAL:O	7:E:73:LEU:HA	2.21	0.41
5:M:518:LYS:O	5:M:520:GLU:N	2.53	0.41
5:C:157:ARG:CZ	5:C:314:THR:CB	2.96	0.41
7:O:30:LEU:HD23	7:O:35:PHE:CZ	2.56	0.41
4:A:161:ARG:HG3	10:A:434:HOH:O	2.21	0.41
1:X:11:DC:H4'	1:X:12:DG:OP1	2.20	0.41
5:C:946:ARG:HH11	5:C:946:ARG:CB	2.32	0.41
6:N:1120:VAL:CB	6:N:1144:LEU:HD21	2.50	0.41
4:L:18:ARG:O	4:L:207:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:510:ALA:HB3	5:M:513:VAL:CG2	2.49	0.41
5:M:516:ARG:HD2	6:N:1068:LEU:HD22	2.02	0.41
5:M:261:ILE:CD1	5:M:261:ILE:H	2.31	0.41
5:C:327:HIS:HA	5:C:431:HIS:NE2	2.36	0.41
5:M:14:PRO:HB3	5:M:586:ARG:HH21	1.86	0.41
6:N:3:LYS:HE3	10:N:8118:HOH:O	2.21	0.41
5:M:745:ILE:H	5:M:745:ILE:HD12	1.85	0.41
5:C:214:TYR:CD1	5:C:215:GLY:N	2.89	0.41
5:M:626:ARG:NH2	5:M:637:LEU:HD13	2.36	0.41
10:D:8477:HOH:O	7:E:50:THR:HB	2.20	0.41
4:B:154:GLU:HB2	10:B:323:HOH:O	2.20	0.41
5:M:1036:GLU:OE1	5:M:1036:GLU:N	2.50	0.41
6:D:1293:PHE:HD2	6:D:1300:SER:HB2	1.84	0.41
6:D:1296:SER:C	6:D:1298:GLY:N	2.73	0.41
6:D:1305:LEU:HD12	6:D:1311:LEU:HB3	2.03	0.41
2:Y:10:G:C2'	2:Y:11:C:H5'	2.51	0.41
6:N:130:SER:O	6:N:568:ARG:CZ	2.69	0.41
6:N:124:GLU:HG3	6:N:128:TYR:CE1	2.56	0.41
6:N:104:PHE:CD2	6:N:1448:THR:HG23	2.56	0.41
6:N:1311:LEU:HD11	10:N:8360:HOH:O	2.20	0.41
5:M:460:ARG:HG2	5:M:485:TYR:CE2	2.56	0.41
6:D:46:ASP:OD2	6:D:48:ARG:HB3	2.21	0.41
4:A:144:VAL:HG21	10:A:448:HOH:O	2.21	0.41
5:M:174:LEU:CD2	5:M:184:MET:HG3	2.51	0.41
5:M:174:LEU:HD23	5:M:184:MET:HG3	2.02	0.41
5:M:77:PRO:HD2	5:M:91:GLN:O	2.20	0.41
4:L:83:LYS:HD2	6:N:844:ALA:CB	2.50	0.41
5:M:18:LEU:HB2	5:M:590:ASP:HB3	2.02	0.41
6:N:1129:THR:CG2	6:N:1130:ARG:H	2.20	0.41
3:Z:8:DA:H2''	3:Z:9:DG:OP2	2.21	0.41
5:C:298:PHE:HD2	10:C:1716:HOH:O	2.03	0.41
6:N:693:GLU:HA	7:O:48:MET:CE	2.51	0.41
5:C:333:ILE:CD1	5:C:467:ILE:HG13	2.50	0.41
4:A:150:TYR:CD1	5:C:696:LYS:HG2	2.56	0.41
6:N:1026:SER:C	6:N:1028:ALA:N	2.73	0.41
6:N:939:PHE:O	6:N:942:SER:HB3	2.21	0.41
7:O:2:ALA:N	10:O:1533:HOH:O	2.52	0.41
6:N:171:LEU:HD11	6:N:192:ALA:HB2	2.03	0.41
5:C:1006:HIS:HA	5:C:1027:PHE:HD1	1.84	0.41
5:M:595:LEU:HD13	5:M:639:GLN:OE1	2.21	0.41
5:C:174:LEU:HD22	5:C:193:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:18:ARG:HH12	4:K:88:ARG:NH2	2.19	0.41
6:D:1487:VAL:CG1	6:D:1488:ASP:N	2.83	0.41
6:D:1119:SER:HA	6:D:1186:VAL:O	2.21	0.41
5:M:520:GLU:O	5:M:522:VAL:HG23	2.21	0.41
4:A:143:ARG:HG2	4:A:143:ARG:NH1	2.36	0.41
4:A:143:ARG:HG2	4:A:143:ARG:HH11	1.85	0.41
6:D:1111:ASP:HB2	6:D:1203:LYS:HE3	2.03	0.41
6:D:1110:ALA:O	6:D:1112:CYS:N	2.53	0.41
4:K:84:GLU:O	4:K:124:ASN:ND2	2.54	0.41
5:C:943:VAL:HB	10:C:1190:HOH:O	2.21	0.41
6:D:666:ILE:HG23	6:D:684:LYS:HD2	2.03	0.41
4:L:59:GLU:CB	4:L:137:ARG:HH22	2.34	0.41
6:N:1336:LEU:HB2	6:N:1344:VAL:HG21	2.02	0.41
6:D:1472:ILE:HD13	6:D:1472:ILE:N	2.32	0.41
6:D:1366:LYS:HA	6:D:1369:GLU:OE1	2.20	0.41
7:E:59:ASN:HA	7:E:59:ASN:HD22	1.67	0.41
4:K:222:LEU:HD21	4:L:218:LEU:HD23	2.03	0.41
6:D:1393:GLN:HB2	6:D:1398:TRP:CE2	2.56	0.41
6:N:1124:GLN:O	6:N:1124:GLN:HG2	2.21	0.41
6:N:646:LYS:HD2	6:N:688:TRP:NE1	2.36	0.41
4:L:228:PRO:O	4:L:229:GLN:HG3	2.20	0.41
5:C:805:ARG:CB	5:C:805:ARG:HH11	2.34	0.41
5:M:237:ARG:CB	5:M:237:ARG:HH11	2.34	0.41
4:L:153:ALA:HA	4:L:156:HIS:CE1	2.56	0.41
5:M:363:SER:HA	10:M:1246:HOH:O	2.21	0.41
6:D:1332:PRO:HB2	6:D:1421:LEU:HD21	2.03	0.41
4:L:81:ASN:O	4:L:84:GLU:HB3	2.21	0.41
6:N:759:ALA:HA	6:N:763:MET:HE2	2.03	0.41
6:N:1382:THR:HG21	6:N:1418:LYS:HE3	2.02	0.41
5:C:518:LYS:HE2	10:C:1658:HOH:O	2.21	0.41
4:A:216:GLU:HG2	10:A:348:HOH:O	2.20	0.41
6:N:1282:ARG:HG3	10:N:8463:HOH:O	2.21	0.41
6:N:703:ASN:ND2	6:N:704:ARG:N	2.67	0.41
6:D:709:HIS:NE2	6:D:711:LEU:HB2	2.36	0.41
5:M:549:PHE:H	5:M:843:HIS:CE1	2.39	0.41
6:D:102:ILE:HD12	6:D:579:ASP:HB3	2.03	0.41
6:D:1441:GLN:CG	6:D:1442:ASN:N	2.84	0.41
1:G:13:DT:H72	10:G:1869:HOH:O	2.21	0.41
4:A:174:VAL:HG22	4:A:201:THR:CG2	2.51	0.41
6:N:714:GLN:HB2	6:N:716:PHE:CE1	2.51	0.41
5:C:328:LEU:HB2	5:C:433:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:267:TYR:O	5:M:268:ASP:C	2.60	0.41
6:D:1066:THR:HG23	6:D:1069:GLU:H	1.85	0.41
6:D:907:GLU:CG	6:D:908:LYS:N	2.84	0.41
4:A:189:ARG:HB3	10:A:439:HOH:O	2.21	0.41
5:M:577:PRO:HG3	5:M:993:PHE:CZ	2.56	0.41
6:D:749:VAL:HA	6:D:750:PRO:HD3	1.84	0.41
4:B:23:PHE:CD2	4:B:211:LEU:HD22	2.56	0.41
6:N:1372:VAL:O	6:N:1375:MET:HB2	2.20	0.41
5:M:430:VAL:HG21	5:M:440:PRO:HB3	2.03	0.41
6:N:1093:TYR:HD2	6:N:1093:TYR:HA	1.80	0.41
4:L:102:LYS:CD	4:L:139:ASN:HB2	2.51	0.41
5:C:346:VAL:O	5:C:350:ARG:HG3	2.21	0.41
6:D:902:LEU:HD22	10:D:8486:HOH:O	2.20	0.41
5:C:378:LEU:CA	10:C:1757:HOH:O	2.62	0.41
6:D:1368:ILE:O	6:D:1372:VAL:HG12	2.21	0.41
3:I:13:DG:H2"	3:I:14:DG:C8	2.56	0.41
5:M:793:PRO:O	5:M:794:PRO:C	2.59	0.41
4:L:5:LYS:O	4:L:8:ALA:HB2	2.21	0.41
6:N:575:GLN:HB2	6:N:575:GLN:HE21	1.61	0.41
6:N:1141:GLU:HB3	6:N:1168:MET:HE1	2.03	0.41
5:C:9:ILE:HD12	5:C:9:ILE:O	2.21	0.41
5:M:749:VAL:HG23	5:M:749:VAL:O	2.20	0.41
6:D:1086:LEU:O	6:D:1090:ASP:OD1	2.39	0.41
4:L:51:THR:HA	4:L:145:ASP:O	2.21	0.41
5:M:1084:SER:HB3	10:M:1428:HOH:O	2.20	0.40
6:D:1476:THR:C	6:D:1478:SER:N	2.72	0.40
6:N:1457:ASP:OD1	6:N:1459:LEU:HG	2.20	0.40
6:N:465:LEU:HD22	6:N:510:GLU:HG3	2.04	0.40
6:N:502:PHE:CZ	6:N:509:PRO:HB3	2.55	0.40
5:M:139:GLN:NE2	5:M:418:LEU:HD21	2.36	0.40
5:M:89:THR:HG23	5:M:89:THR:O	2.21	0.40
4:A:22:GLU:HG3	4:A:198:ARG:HB3	2.03	0.40
5:C:674:VAL:HB	5:C:869:VAL:HG13	2.02	0.40
6:D:481:MET:O	6:D:489:ARG:HB2	2.21	0.40
6:D:1129:THR:O	6:D:1130:ARG:HD2	2.22	0.40
6:N:957:PRO:CG	6:N:1007:VAL:HG22	2.49	0.40
6:N:1055:VAL:HA	6:N:1056:PRO:HD3	1.90	0.40
4:A:186:LEU:O	4:A:188:GLN:N	2.54	0.40
5:C:1008:ARG:NH1	5:C:1010:THR:C	2.75	0.40
5:C:267:TYR:HB2	10:C:1497:HOH:O	2.21	0.40
6:N:796:ARG:HG2	6:N:1017:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:535:SER:H	5:M:538:GLN:NE2	2.19	0.40
6:N:1264:GLU:HB3	6:N:1266:ARG:HE	1.86	0.40
5:M:838:LYS:HD3	5:M:846:LYS:HZ3	1.84	0.40
5:C:34:VAL:CB	5:C:38:LYS:HG3	2.48	0.40
6:N:1161:GLU:HB3	10:N:8055:HOH:O	2.21	0.40
4:K:215:VAL:CG1	4:L:222:LEU:HB3	2.51	0.40
6:D:916:TYR:OH	6:D:1145:TYR:HE2	2.04	0.40
4:B:6:LEU:HA	4:B:6:LEU:HD12	1.87	0.40
6:D:1115:THR:HG22	6:D:1151:ARG:HH21	1.86	0.40
6:N:1322:GLY:HA2	10:N:8291:HOH:O	2.20	0.40
4:B:109:VAL:HG12	10:B:440:HOH:O	2.21	0.40
4:B:109:VAL:O	4:B:129:ILE:HG12	2.21	0.40
5:M:1034:GLU:HB3	6:N:619:LEU:CD2	2.31	0.40
6:N:521:PRO:HA	6:N:522:PRO:HD3	1.91	0.40
6:N:51:GLY:O	6:N:86:ARG:HG3	2.21	0.40
5:C:857:ASP:CB	5:C:978:ARG:HG2	2.43	0.40
5:M:1090:LYS:CE	5:M:1112:PHE:HE1	2.34	0.40
5:M:328:LEU:HD21	5:M:434:HIS:HA	2.03	0.40
5:M:415:PRO:CD	5:M:418:LEU:HD13	2.48	0.40
5:M:470:PRO:HD3	5:M:485:TYR:CE2	2.57	0.40
5:M:202:TYR:CZ	5:M:304:LEU:HD13	2.56	0.40
3:Z:3:DA:C2'	3:Z:4:DC:H5''	2.47	0.40
5:C:876:VAL:H	5:C:877:PRO:HD2	1.85	0.40
6:D:496:LEU:CD2	6:D:1388:ARG:HG3	2.51	0.40
5:C:332:ARG:HG2	5:C:333:ILE:N	2.36	0.40
5:C:437:ARG:NH1	5:C:491:GLU:OE2	2.54	0.40
5:M:95:TYR:N	5:M:95:TYR:CD1	2.88	0.40
5:M:143:SER:OG	5:M:276:LYS:HE2	2.21	0.40
6:D:171:LEU:HD21	6:D:192:ALA:HB1	2.02	0.40
6:N:939:PHE:O	6:N:943:THR:HG23	2.22	0.40
5:C:1008:ARG:HH11	5:C:1008:ARG:CG	2.34	0.40
5:C:165:LEU:O	5:C:265:ARG:NE	2.54	0.40
7:E:89:MET:O	7:E:93:TYR:HD1	2.04	0.40
5:M:711:GLU:OE2	5:M:819:VAL:HG11	2.22	0.40
6:D:1147:ARG:NH2	10:D:8237:HOH:O	2.54	0.40
7:O:9:LEU:HG	7:O:69:LEU:HD12	2.02	0.40
5:M:642:ARG:HG3	5:M:657:ASP:OD2	2.21	0.40
5:M:237:ARG:HA	5:M:237:ARG:HH11	1.86	0.40
4:A:65:PHE:CD1	4:A:65:PHE:N	2.89	0.40
5:C:706:GLU:HA	5:C:706:GLU:OE2	2.21	0.40
5:M:781:LYS:HD3	10:M:1629:HOH:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:412:ALA:HB1	5:M:419:THR:HG21	2.04	0.40
6:N:110:SER:N	10:N:8331:HOH:O	2.54	0.40
6:D:1278:ASP:CB	6:D:1320:GLU:HA	2.50	0.40
5:M:1020:PRO:O	5:M:1021:LEU:HD12	2.22	0.40
5:M:1081:VAL:HA	5:M:1082:PRO:HD3	1.93	0.40
2:Y:11:C:C2'	2:Y:12:G:H5''	2.51	0.40
4:A:36:LEU:O	4:A:39:PRO:HD2	2.21	0.40
6:N:133:ILE:O	6:N:152:LEU:CA	2.69	0.40
5:C:367:LEU:HB3	5:C:371:LYS:HG2	2.04	0.40
5:M:1095:LEU:O	5:M:1096:ALA:C	2.60	0.40
5:M:971:LYS:HA	5:M:988:VAL:HA	2.03	0.40
5:M:487:THR:HB	5:M:490:GLU:HG3	2.03	0.40
5:M:1030:GLN:O	6:N:622:ARG:HA	2.22	0.40
5:M:553:ASP:HA	5:M:881:ASN:HA	2.03	0.40
5:M:204:GLN:CD	5:M:228:ALA:HB1	2.41	0.40
4:L:74:ASP:O	4:L:78:ILE:HG13	2.21	0.40
4:L:79:ILE:HA	4:L:82:LEU:HD12	2.02	0.40
6:N:792:ILE:HD11	6:N:881:LEU:CD2	2.50	0.40
5:C:302:VAL:HG13	5:C:303:PHE:N	2.35	0.40
7:O:47:LYS:N	7:O:54:LEU:HD13	2.36	0.40
6:N:1211:MET:HG2	6:N:1212:ALA:H	1.86	0.40
6:N:116:LEU:HD22	6:N:118:LEU:HG	2.03	0.40
6:N:581:LEU:HD23	6:N:581:LEU:N	2.25	0.40
6:D:700:VAL:HG13	6:D:718:PRO:HG2	2.03	0.40
5:C:641:PRO:HD2	10:C:1666:HOH:O	2.21	0.40
6:N:1313:VAL:HG23	10:N:8590:HOH:O	2.19	0.40
7:E:26:ARG:NH2	7:E:37:ASN:O	2.55	0.40
5:M:517:ARG:HB3	5:M:518:LYS:H	1.76	0.40
6:N:1047:LYS:HE3	6:N:1053:PHE:CD2	2.55	0.40
6:D:1352:ILE:O	6:D:1355:VAL:HG23	2.21	0.40
6:N:1223:ILE:HG22	6:N:1227:GLN:CD	2.41	0.40
4:K:14:ARG:HH22	4:K:24:VAL:CG2	2.34	0.40
4:L:14:ARG:HH12	4:L:24:VAL:CG2	2.34	0.40
5:C:145:GLY:O	5:C:163:ILE:HG23	2.20	0.40
5:M:63:GLY:HA3	5:M:103:LYS:CG	2.51	0.40
6:D:984:THR:HG23	6:D:987:GLU:H	1.85	0.40
6:D:719:VAL:O	6:D:721:VAL:HG13	2.21	0.40
6:D:1405:GLU:HG2	10:D:8672:HOH:O	2.21	0.40
5:C:630:ARG:HD2	5:C:634:GLY:HA2	2.03	0.40
4:A:155:LYS:HG3	10:A:432:HOH:O	2.21	0.40
7:O:83:ASP:O	7:O:86:GLN:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:13:DG:H2"	3:Z:14:DG:C8	2.57	0.40
5:M:283:ILE:HG22	10:M:1135:HOH:O	2.20	0.40
6:D:1310:ARG:HG2	6:D:1327:ARG:HB3	2.03	0.40
6:N:133:ILE:O	6:N:152:LEU:CB	2.60	0.40
7:E:19:LEU:HD12	7:E:23:VAL:HG23	2.04	0.40
4:A:112:ARG:NH2	4:A:125:PRO:HB2	2.15	0.40
4:A:18:ARG:HH11	4:A:123:MET:HE1	1.85	0.40
5:M:183:SER:HB2	5:M:190:LYS:HG2	2.04	0.40
5:M:194:VAL:HG12	5:M:204:GLN:HE22	1.87	0.40
5:M:211:LEU:HB2	5:M:308:ARG:HD2	2.03	0.40
5:M:408:ARG:NH1	5:M:542:VAL:HG21	2.36	0.40
5:M:18:LEU:HD13	5:M:590:ASP:CB	2.51	0.40
6:D:1384:PRO:CB	10:D:8036:HOH:O	2.69	0.40
6:N:1213:ARG:HB2	6:N:1214:PRO:HD2	2.03	0.40
5:C:427:VAL:HB	5:C:451:LEU:HD21	2.02	0.40
4:K:178:ALA:O	4:K:198:ARG:N	2.49	0.40
5:C:1029:GLY:O	6:D:622:ARG:HG2	2.21	0.40
5:C:83:CYS:HA	5:C:88:LEU:CB	2.51	0.40
5:C:12:VAL:CG1	5:C:534:VAL:HG13	2.52	0.40
5:M:895:TYR:HD1	5:M:991:GLN:CD	2.25	0.40
6:N:1486:VAL:CG1	7:O:22:VAL:HG13	2.50	0.40
5:C:260:LEU:HD21	5:C:293:PHE:CD1	2.56	0.40
5:M:816:LYS:O	5:M:819:VAL:HB	2.21	0.40
5:C:344:PHE:CE1	5:C:348:LEU:HD11	2.56	0.40
6:N:814:ALA:HB1	6:N:818:ARG:NH2	2.31	0.40
5:M:428:ARG:HG2	5:M:428:ARG:NH1	2.36	0.40
7:E:28:GLN:HB3	7:E:32:ARG:NH1	2.34	0.40
4:K:14:ARG:HB3	10:K:2863:HOH:O	2.21	0.40
6:N:402:PRO:HG3	10:N:8529:HOH:O	2.22	0.40
5:M:840:ALA:HB2	5:M:846:LYS:HA	2.02	0.40
5:M:516:ARG:HG3	6:N:1068:LEU:HD13	2.02	0.40
4:B:143:ARG:NH2	10:B:462:HOH:O	2.55	0.40
6:N:1346:ARG:NH2	6:N:1350:GLU:OE1	2.55	0.40
6:N:550:ARG:HD3	6:N:570:GLU:OE1	2.21	0.40
4:K:2:LEU:HA	4:K:6:LEU:HD22	2.03	0.40
5:M:1055:LEU:HD13	5:M:1066:ALA:CB	2.51	0.40
4:B:179:PHE:H	4:B:179:PHE:HD2	1.69	0.40
5:M:237:ARG:NH1	5:M:237:ARG:CG	2.85	0.40
5:C:413:LEU:HD12	5:C:413:LEU:O	2.20	0.40
6:D:1499:ARG:HA	10:E:139:HOH:O	2.21	0.40
5:C:776:SER:HA	5:C:780:GLU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:177:ALA:HB3	6:D:205:TYR:OH	2.21	0.40
5:M:1031:ARG:CA	6:N:621:LYS:O	2.57	0.40
6:D:1326:THR:HG22	6:D:1327:ARG:H	1.86	0.40
6:N:703:ASN:HB3	6:N:746:ALA:HB3	2.03	0.40
6:N:653:PHE:CE1	6:N:695:ILE:HD12	2.56	0.40
6:N:695:ILE:HD11	6:N:718:PRO:CB	2.37	0.40
5:M:472:ARG:HE	5:M:532:MET:HE1	1.87	0.40
6:D:45:PHE:CZ	6:D:527:MET:HB2	2.56	0.40
4:A:86:VAL:CG1	4:A:124:ASN:HB2	2.49	0.40
5:M:189:ARG:HD3	5:M:190:LYS:H	1.87	0.40
5:M:217:LEU:HD12	5:M:311:PHE:CD2	2.57	0.40
3:Z:8:DA:H1'	3:Z:9:DG:C5'	2.50	0.40
5:C:688:ILE:HG23	5:C:869:VAL:HG23	2.04	0.40
5:C:582:GLY:C	5:C:583:LEU:HD12	2.42	0.40
4:L:27:PRO:O	4:L:28:LEU:HD23	2.21	0.40
6:D:128:TYR:HD2	6:D:128:TYR:HA	1.62	0.40
4:K:68:ILE:HG13	10:K:2858:HOH:O	2.22	0.40
4:K:184:THR:HG22	4:K:194:LYS:HB2	2.04	0.40
4:K:188:GLN:HG3	4:K:189:ARG:H	1.86	0.40
5:C:205:GLU:HA	5:C:209:ARG:CZ	2.50	0.40
5:M:543:ASN:HA	5:M:543:ASN:HD22	1.60	0.40
5:M:255:ALA:HB3	5:M:298:PHE:CZ	2.56	0.40
5:C:146:VAL:CG2	5:C:162:ILE:HG12	2.51	0.40
5:C:165:LEU:HA	5:C:166:PRO:O	2.22	0.40
6:D:796:ARG:NE	6:D:828:LYS:NZ	2.69	0.40
5:C:564:MET:SD	5:C:840:ALA:HB3	2.62	0.40
6:N:1312:LEU:CD1	6:N:1327:ARG:HD2	2.51	0.40
5:M:338:GLU:HB2	10:M:1472:HOH:O	2.20	0.40
6:N:1256:LEU:N	6:N:1257:PRO:CD	2.84	0.40
4:A:163:ASN:ND2	5:C:744:ARG:NH2	2.70	0.40
6:D:951:ILE:HD12	6:D:1062:ARG:HE	1.86	0.40
4:A:156:HIS:CD2	4:A:157:GLY:H	2.40	0.40
4:K:55:SER:HB2	4:K:158:ILE:HB	2.04	0.40
5:M:841:ASN:H	5:M:841:ASN:ND2	2.19	0.40
4:A:170:VAL:O	4:A:170:VAL:HG23	2.22	0.40
5:C:609:ASN:HD22	5:C:609:ASN:HA	1.65	0.40
5:M:315:ALA:HB2	10:M:1350:HOH:O	2.21	0.40
5:M:1064:ASN:ND2	10:M:1662:HOH:O	2.55	0.40
6:D:69:GLU:HB2	10:D:8191:HOH:O	2.21	0.40
6:D:734:GLU:OE2	6:D:780:LYS:HE3	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	A	227/315 (72%)	206 (91%)	16 (7%)	5 (2%)	8	13
4	B	227/315 (72%)	205 (90%)	18 (8%)	4 (2%)	11	18
4	K	227/315 (72%)	205 (90%)	17 (8%)	5 (2%)	8	13
4	L	227/315 (72%)	205 (90%)	18 (8%)	4 (2%)	11	18
5	C	1117/1119 (100%)	916 (82%)	142 (13%)	59 (5%)	2	2
5	M	1117/1119 (100%)	918 (82%)	145 (13%)	54 (5%)	3	3
6	D	1297/1524 (85%)	1081 (83%)	165 (13%)	51 (4%)	4	5
6	N	1297/1524 (85%)	1100 (85%)	147 (11%)	50 (4%)	4	5
7	E	93/99 (94%)	76 (82%)	8 (9%)	9 (10%)	1	0
7	O	93/99 (94%)	75 (81%)	9 (10%)	9 (10%)	1	0
All	All	5922/6744 (88%)	4987 (84%)	685 (12%)	250 (4%)	3	4

All (250) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	A	29	GLU
4	A	187	GLY
4	B	29	GLU
4	B	187	GLY
5	C	40	GLU
5	C	44	ILE
5	C	59	LYS
5	C	152	PRO
5	C	170	PRO
5	C	178	PRO
5	C	231	PRO
5	C	244	PRO
5	C	288	ARG
5	C	290	LEU

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Mol	Chain	Res	Type
5	C	369	PRO
5	C	465	GLY
5	C	680	ASP
5	C	698	ASP
5	C	727	PRO
5	C	908	GLY
5	C	1033	GLY
6	D	31	THR
6	D	40	GLU
6	D	43	GLY
6	D	55	ASP
6	D	137	PRO
6	D	705	ALA
6	D	832	ARG
6	D	844	ALA
6	D	1028	ALA
6	D	1129	THR
6	D	1389	LEU
6	D	1441	GLN
7	E	42	PRO
4	K	29	GLU
4	K	187	GLY
4	L	29	GLU
4	L	187	GLY
5	M	44	ILE
5	M	152	PRO
5	M	170	PRO
5	M	178	PRO
5	M	231	PRO
5	M	244	PRO
5	M	288	ARG
5	M	369	PRO
5	M	465	GLY
5	M	680	ASP
5	M	698	ASP
5	M	727	PRO
5	M	908	GLY
5	M	1033	GLY
6	N	40	GLU
6	N	43	GLY
6	N	55	ASP
6	N	137	PRO

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Mol	Chain	Res	Type
6	N	705	ALA
6	N	832	ARG
6	N	844	ALA
6	N	1028	ALA
6	N	1129	THR
6	N	1306	PRO
6	N	1389	LEU
6	N	1441	GLN
7	O	42	PRO
4	A	3	ASP
5	C	156	GLY
5	C	164	PRO
5	C	223	ASP
5	C	363	SER
5	C	418	LEU
5	C	457	ALA
5	C	517	ARG
5	C	626	ARG
5	C	627	ARG
5	C	1004	LYS
5	C	1005	MET
5	C	1059	ASP
5	C	1106	ASP
6	D	37	LEU
6	D	59	ALA
6	D	98	PRO
6	D	451	ASP
6	D	594	PRO
6	D	620	GLY
6	D	696	HIS
6	D	737	ASN
6	D	803	GLY
6	D	1208	ASP
6	D	1268	PRO
6	D	1269	LYS
6	D	1287	GLU
6	D	1288	GLU
6	D	1306	PRO
6	D	1452	ILE
6	D	1454	GLY
7	E	53	GLY
7	E	58	PRO

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Mol	Chain	Res	Type
4	K	3	ASP
5	M	40	GLU
5	M	59	LYS
5	M	156	GLY
5	M	164	PRO
5	M	223	ASP
5	M	290	LEU
5	M	363	SER
5	M	418	LEU
5	M	457	ALA
5	M	626	ARG
5	M	627	ARG
5	M	1045	ALA
5	M	1059	ASP
5	M	1106	ASP
6	N	31	THR
6	N	37	LEU
6	N	98	PRO
6	N	525	ARG
6	N	539	ASP
6	N	594	PRO
6	N	620	GLY
6	N	737	ASN
6	N	766	ALA
6	N	803	GLY
6	N	1208	ASP
6	N	1287	GLU
6	N	1288	GLU
6	N	1454	GLY
7	O	53	GLY
7	O	58	PRO
4	B	3	ASP
5	C	74	GLY
5	C	80	GLN
5	C	188	LYS
5	C	251	ASP
5	C	268	ASP
5	C	424	GLY
5	C	462	ASP
5	C	548	PRO
5	C	864	GLY
5	C	1045	ALA

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Mol	Chain	Res	Type
6	D	34	TYR
6	D	96	ALA
6	D	120	ALA
6	D	448	GLU
6	D	507	ASN
6	D	539	ASP
6	D	1125	PRO
6	D	1385	GLY
7	E	43	GLU
7	E	82	GLU
5	M	74	GLY
5	M	80	GLN
5	M	188	LYS
5	M	268	ASP
5	M	517	ARG
5	M	548	PRO
5	M	864	GLY
6	N	59	ALA
6	N	96	ALA
6	N	120	ALA
6	N	451	ASP
6	N	507	ASN
6	N	524	LEU
6	N	696	HIS
6	N	1125	PRO
6	N	1385	GLY
7	O	43	GLU
5	C	138	SER
5	C	180	GLY
5	C	1027	PHE
6	D	136	ASP
6	D	397	LYS
6	D	808	THR
6	D	822	ALA
6	D	1111	ASP
7	E	5	GLY
7	E	32	ARG
4	K	133	GLU
5	M	138	SER
5	M	251	ASP
5	M	462	ASP
5	M	529	VAL

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Mol	Chain	Res	Type
5	M	1027	PHE
5	M	1114	GLY
6	N	822	ALA
6	N	1111	ASP
6	N	1196	THR
6	N	1269	LYS
6	N	1452	ILE
7	O	5	GLY
7	O	32	ARG
7	O	82	GLU
4	A	125	PRO
4	A	133	GLU
5	C	90	TYR
5	C	144	PRO
5	C	264	PRO
5	C	282	GLY
5	C	740	GLU
5	C	1114	GLY
6	D	601	ARG
6	D	830	ALA
4	K	125	PRO
4	L	3	ASP
5	M	10	ARG
5	M	90	TYR
5	M	180	GLY
5	M	282	GLY
5	M	740	GLU
6	N	34	TYR
6	N	82	LYS
6	N	136	ASP
6	N	500	ARG
6	N	808	THR
4	B	125	PRO
5	C	529	VAL
5	C	598	GLU
5	C	904	PRO
6	D	924	MET
6	D	1155	VAL
5	M	264	PRO
5	M	1079	PRO
6	N	483	HIS
7	O	57	ASP

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Mol	Chain	Res	Type
6	D	483	HIS
6	D	595	GLY
5	M	144	PRO
6	N	595	GLY
6	N	1155	VAL
5	C	53	PRO
5	C	400	PRO
5	C	779	GLY
6	D	530	VAL
7	E	57	ASP
7	E	81	PRO
4	L	125	PRO
5	M	53	PRO
5	M	779	GLY
6	N	522	PRO
6	N	530	VAL
5	C	905	ILE
5	C	1079	PRO
6	D	522	PRO
5	M	129	ILE
5	M	519	GLY
7	O	81	PRO
5	C	129	ILE
6	D	1064	GLY
5	M	905	ILE
5	C	166	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	A	202/273 (74%)	164 (81%)	38 (19%)	2	3
4	B	202/273 (74%)	171 (85%)	31 (15%)	3	6
4	K	202/273 (74%)	170 (84%)	32 (16%)	3	5
4	L	202/273 (74%)	166 (82%)	36 (18%)	2	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	C	941/941 (100%)	710 (76%)	231 (24%)	1	1
5	M	941/941 (100%)	740 (79%)	201 (21%)	1	2
6	D	1100/1279 (86%)	874 (80%)	226 (20%)	1	2
6	N	1100/1279 (86%)	879 (80%)	221 (20%)	1	3
7	E	84/88 (96%)	62 (74%)	22 (26%)	0	1
7	O	84/88 (96%)	66 (79%)	18 (21%)	1	2
All	All	5058/5708 (89%)	4002 (79%)	1056 (21%)	1	2

All (1056) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	A	5	LYS
4	A	9	PRO
4	A	16	GLN
4	A	20	TYR
4	A	25	LEU
4	A	26	GLU
4	A	47	SER
4	A	49	PRO
4	A	54	THR
4	A	62	LEU
4	A	65	PHE
4	A	74	ASP
4	A	81	ASN
4	A	89	PHE
4	A	92	PRO
4	A	93	SER
4	A	96	THR
4	A	100	LEU
4	A	101	LEU
4	A	113	ASP
4	A	123	MET
4	A	126	ASP
4	A	143	ARG
4	A	161	ARG
4	A	163	ASN
4	A	175	ARG
4	A	180	GLN
4	A	183	ASP
4	A	184	THR

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Mol	Chain	Res	Type
4	A	189	ARG
4	A	191	ASP
4	A	198	ARG
4	A	201	THR
4	A	206	THR
4	A	208	LEU
4	A	219	ARG
4	A	226	SER
4	A	229	GLN
4	B	3	ASP
4	B	5	LYS
4	B	20	TYR
4	B	25	LEU
4	B	28	LEU
4	B	54	THR
4	B	62	LEU
4	B	73	GLU
4	B	77	GLU
4	B	81	ASN
4	B	84	GLU
4	B	89	PHE
4	B	95	GLN
4	B	104	GLU
4	B	112	ARG
4	B	123	MET
4	B	126	ASP
4	B	141	GLU
4	B	159	LYS
4	B	161	ARG
4	B	163	ASN
4	B	166	PRO
4	B	167	VAL
4	B	175	ARG
4	B	179	PHE
4	B	184	THR
4	B	186	LEU
4	B	197	LEU
4	B	198	ARG
4	B	201	THR
4	B	206	THR
5	C	9	ILE
5	C	22	GLN

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Mol	Chain	Res	Type
5	C	26	TYR
5	C	31	GLN
5	C	33	ASP
5	C	34	VAL
5	C	39	ARG
5	C	48	PHE
5	C	49	ARG
5	C	50	GLU
5	C	75	GLU
5	C	76	PRO
5	C	80	GLN
5	C	88	LEU
5	C	94	LEU
5	C	95	TYR
5	C	98	LEU
5	C	100	LEU
5	C	104	ASP
5	C	111	ASP
5	C	113	VAL
5	C	114	PHE
5	C	115	LEU
5	C	117	HIS
5	C	121	MET
5	C	126	SER
5	C	133	ASP
5	C	136	ILE
5	C	141	HIS
5	C	144	PRO
5	C	147	TYR
5	C	158	TYR
5	C	163	ILE
5	C	166	PRO
5	C	170	PRO
5	C	173	ASP
5	C	179	ASN
5	C	183	SER
5	C	184	MET
5	C	188	LYS
5	C	190	LYS
5	C	191	PHE
5	C	194	VAL
5	C	196	LEU

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Mol	Chain	Res	Type
5	C	198	ARG
5	C	203	ASP
5	C	205	GLU
5	C	209	ARG
5	C	211	LEU
5	C	216	GLU
5	C	218	VAL
5	C	221	LEU
5	C	222	MET
5	C	224	GLU
5	C	226	VAL
5	C	230	ARG
5	C	235	LEU
5	C	237	ARG
5	C	238	LEU
5	C	239	PHE
5	C	243	ARG
5	C	252	LYS
5	C	260	LEU
5	C	261	ILE
5	C	264	PRO
5	C	266	ARG
5	C	267	TYR
5	C	268	ASP
5	C	274	ARG
5	C	275	TYR
5	C	278	GLU
5	C	279	GLU
5	C	281	LEU
5	C	285	LEU
5	C	289	THR
5	C	290	LEU
5	C	293	PHE
5	C	297	GLU
5	C	298	PHE
5	C	303	PHE
5	C	306	THR
5	C	308	ARG
5	C	309	TYR
5	C	321	GLU
5	C	323	ASP
5	C	335	THR

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Mol	Chain	Res	Type
5	C	343	GLN
5	C	345	ARG
5	C	348	LEU
5	C	358	ARG
5	C	359	MET
5	C	360	LEU
5	C	365	ASP
5	C	367	LEU
5	C	376	ARG
5	C	383	ARG
5	C	388	ARG
5	C	391	LEU
5	C	392	SER
5	C	393	GLN
5	C	394	PHE
5	C	400	PRO
5	C	410	ILE
5	C	415	PRO
5	C	419	THR
5	C	422	ARG
5	C	425	PHE
5	C	429	ASP
5	C	432	ARG
5	C	433	THR
5	C	439	CYS
5	C	440	PRO
5	C	453	THR
5	C	469	THR
5	C	472	ARG
5	C	481	ASP
5	C	486	MET
5	C	500	ASN
5	C	503	LEU
5	C	507	ARG
5	C	533	ASP
5	C	535	SER
5	C	537	LYS
5	C	543	ASN
5	C	545	ASN
5	C	548	PRO
5	C	554	ASP
5	C	557	ARG

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Mol	Chain	Res	Type
5	C	562	SER
5	C	564	MET
5	C	580	MET
5	C	581	THR
5	C	589	ARG
5	C	602	GLU
5	C	606	VAL
5	C	609	ASN
5	C	611	ILE
5	C	613	VAL
5	C	617	ASP
5	C	619	ARG
5	C	620	LEU
5	C	621	VAL
5	C	624	PRO
5	C	631	SER
5	C	635	THR
5	C	638	ASP
5	C	640	ARG
5	C	645	VAL
5	C	648	ARG
5	C	654	LEU
5	C	657	ASP
5	C	659	PRO
5	C	668	LEU
5	C	670	GLN
5	C	676	ILE
5	C	679	PHE
5	C	680	ASP
5	C	685	GLU
5	C	691	SER
5	C	695	LEU
5	C	699	PHE
5	C	701	THR
5	C	702	SER
5	C	704	HIS
5	C	714	ASP
5	C	725	ASP
5	C	727	PRO
5	C	728	HIS
5	C	739	GLU
5	C	754	ILE

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Mol	Chain	Res	Type
5	C	765	SER
5	C	766	GLU
5	C	770	GLU
5	C	780	GLU
5	C	781	LYS
5	C	784	ASP
5	C	785	VAL
5	C	796	GLU
5	C	803	THR
5	C	805	ARG
5	C	807	ARG
5	C	834	GLN
5	C	837	ASP
5	C	839	LEU
5	C	841	ASN
5	C	852	ILE
5	C	862	PRO
5	C	863	ASP
5	C	870	ILE
5	C	878	SER
5	C	879	ARG
5	C	881	ASN
5	C	884	GLN
5	C	904	PRO
5	C	920	GLN
5	C	923	GLU
5	C	929	ARG
5	C	938	LYS
5	C	939	ARG
5	C	942	GLU
5	C	946	ARG
5	C	950	LEU
5	C	952	LEU
5	C	958	THR
5	C	959	PRO
5	C	963	LEU
5	C	969	GLN
5	C	972	VAL
5	C	975	TYR
5	C	981	GLU
5	C	988	VAL
5	C	989	VAL

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Mol	Chain	Res	Type
5	C	995	MET
5	C	999	HIS
5	C	1002	GLU
5	C	1003	ASP
5	C	1005	MET
5	C	1008	ARG
5	C	1010	THR
5	C	1016	ILE
5	C	1021	LEU
5	C	1026	GLN
5	C	1030	GLN
5	C	1035	MET
5	C	1040	LEU
5	C	1052	MET
5	C	1075	ASP
5	C	1076	VAL
5	C	1088	LEU
5	C	1092	LEU
5	C	1105	LYS
6	D	6	ARG
6	D	9	ARG
6	D	21	TRP
6	D	22	SER
6	D	34	TYR
6	D	41	ARG
6	D	42	ASP
6	D	47	GLU
6	D	52	PRO
6	D	53	ILE
6	D	56	TYR
6	D	57	GLU
6	D	58	CYS
6	D	60	CYS
6	D	64	LYS
6	D	69	GLU
6	D	71	LYS
6	D	74	GLU
6	D	75	ARG
6	D	76	CYS
6	D	79	GLU
6	D	80	VAL
6	D	82	LYS

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Mol	Chain	Res	Type
6	D	87	ARG
6	D	95	LEU
6	D	108	VAL
6	D	112	ILE
6	D	116	LEU
6	D	127	LEU
6	D	128	TYR
6	D	134	VAL
6	D	135	LEU
6	D	149	LYS
6	D	151	GLN
6	D	152	LEU
6	D	153	LEU
6	D	162	ARG
6	D	163	TYR
6	D	189	GLN
6	D	199	LEU
6	D	204	LEU
6	D	207	PHE
6	D	405	ASP
6	D	406	ASP
6	D	419	ASP
6	D	429	SER
6	D	434	ARG
6	D	438	ASP
6	D	453	ASP
6	D	455	ARG
6	D	465	LEU
6	D	469	ASP
6	D	471	GLU
6	D	483	HIS
6	D	489	ARG
6	D	493	ARG
6	D	497	GLU
6	D	504	ASP
6	D	505	SER
6	D	507	ASN
6	D	511	TRP
6	D	512	MET
6	D	521	PRO
6	D	525	ARG
6	D	531	ASP

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Mol	Chain	Res	Type
6	D	534	ARG
6	D	537	THR
6	D	538	SER
6	D	549	ASN
6	D	550	ARG
6	D	581	LEU
6	D	590	PRO
6	D	594	PRO
6	D	596	SER
6	D	600	LEU
6	D	602	SER
6	D	605	ASP
6	D	614	PHE
6	D	616	GLN
6	D	617	ASN
6	D	618	LEU
6	D	619	LEU
6	D	622	ARG
6	D	624	ASP
6	D	639	LEU
6	D	641	GLN
6	D	642	CYS
6	D	648	MET
6	D	651	GLU
6	D	652	LEU
6	D	660	LYS
6	D	670	VAL
6	D	676	MET
6	D	685	ASP
6	D	686	GLU
6	D	688	TRP
6	D	701	LEU
6	D	703	ASN
6	D	707	THR
6	D	709	HIS
6	D	710	ARG
6	D	731	LEU
6	D	732	VAL
6	D	734	GLU
6	D	736	PHE
6	D	743	ASP
6	D	747	VAL

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Mol	Chain	Res	Type
6	D	749	VAL
6	D	754	PHE
6	D	763	MET
6	D	764	LEU
6	D	765	SER
6	D	783	ARG
6	D	784	ASP
6	D	792	ILE
6	D	796	ARG
6	D	800	LYS
6	D	805	GLU
6	D	808	THR
6	D	817	GLU
6	D	826	PRO
6	D	828	LYS
6	D	832	ARG
6	D	833	GLU
6	D	838	ARG
6	D	842	VAL
6	D	862	ASP
6	D	863	VAL
6	D	864	VAL
6	D	877	PRO
6	D	879	ARG
6	D	880	ILE
6	D	890	VAL
6	D	892	ASP
6	D	897	TRP
6	D	901	GLN
6	D	902	LEU
6	D	920	LEU
6	D	922	LEU
6	D	925	GLU
6	D	927	THR
6	D	940	THR
6	D	943	THR
6	D	945	SER
6	D	951	ILE
6	D	955	VAL
6	D	970	LYS
6	D	980	MET
6	D	982	PHE

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Mol	Chain	Res	Type
6	D	983	LEU
6	D	988	ARG
6	D	991	GLN
6	D	1000	THR
6	D	1001	GLU
6	D	1025	GLN
6	D	1038	LEU
6	D	1041	LEU
6	D	1042	ARG
6	D	1049	SER
6	D	1062	ARG
6	D	1068	LEU
6	D	1078	ARG
6	D	1083	ASP
6	D	1086	LEU
6	D	1087	ARG
6	D	1091	SER
6	D	1093	TYR
6	D	1095	THR
6	D	1101	VAL
6	D	1102	THR
6	D	1108	ARG
6	D	1109	GLU
6	D	1112	CYS
6	D	1114	THR
6	D	1119	SER
6	D	1127	GLU
6	D	1133	ARG
6	D	1135	ARG
6	D	1151	ARG
6	D	1161	GLU
6	D	1166	LEU
6	D	1179	GLU
6	D	1183	ILE
6	D	1197	ARG
6	D	1207	TYR
6	D	1208	ASP
6	D	1214	PRO
6	D	1228	SER
6	D	1262	LEU
6	D	1264	GLU
6	D	1282	ARG

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Mol	Chain	Res	Type
6	D	1285	GLU
6	D	1291	SER
6	D	1297	GLU
6	D	1299	PHE
6	D	1300	SER
6	D	1305	LEU
6	D	1311	LEU
6	D	1315	ASP
6	D	1319	VAL
6	D	1320	GLU
6	D	1332	PRO
6	D	1342	GLU
6	D	1355	VAL
6	D	1359	GLN
6	D	1382	THR
6	D	1389	LEU
6	D	1395	LEU
6	D	1396	GLU
6	D	1410	GLU
6	D	1412	LYS
6	D	1415	VAL
6	D	1431	THR
6	D	1432	LYS
6	D	1433	SER
6	D	1440	PHE
6	D	1441	GLN
6	D	1462	LEU
6	D	1465	ASN
6	D	1472	ILE
6	D	1483	PHE
6	D	1485	GLN
6	D	1488	ASP
6	D	1492	LEU
6	D	1496	GLU
6	D	1501	GLU
7	E	20	THR
7	E	30	LEU
7	E	31	LEU
7	E	38	THR
7	E	40	LEU
7	E	46	PRO
7	E	51	LEU

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Mol	Chain	Res	Type
7	E	52	GLU
7	E	56	ASP
7	E	57	ASP
7	E	58	PRO
7	E	59	ASN
7	E	69	LEU
7	E	70	THR
7	E	72	ARG
7	E	77	GLU
7	E	78	ASN
7	E	81	PRO
7	E	83	ASP
7	E	89	MET
7	E	94	PRO
7	E	96	GLU
4	K	5	LYS
4	K	9	PRO
4	K	12	THR
4	K	16	GLN
4	K	18	ARG
4	K	20	TYR
4	K	22	GLU
4	K	25	LEU
4	K	26	GLU
4	K	54	THR
4	K	65	PHE
4	K	74	ASP
4	K	81	ASN
4	K	89	PHE
4	K	92	PRO
4	K	101	LEU
4	K	106	PRO
4	K	113	ASP
4	K	123	MET
4	K	131	THR
4	K	143	ARG
4	K	163	ASN
4	K	168	ASP
4	K	184	THR
4	K	189	ARG
4	K	198	ARG
4	K	201	THR

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Mol	Chain	Res	Type
4	K	206	THR
4	K	208	LEU
4	K	219	ARG
4	K	222	LEU
4	K	226	SER
4	L	1	MET
4	L	5	LYS
4	L	7	LYS
4	L	12	THR
4	L	20	TYR
4	L	25	LEU
4	L	28	LEU
4	L	62	LEU
4	L	69	PRO
4	L	73	GLU
4	L	76	VAL
4	L	81	ASN
4	L	89	PHE
4	L	95	GLN
4	L	99	LEU
4	L	101	LEU
4	L	104	GLU
4	L	119	ASP
4	L	123	MET
4	L	126	ASP
4	L	132	LEU
4	L	141	GLU
4	L	159	LYS
4	L	161	ARG
4	L	163	ASN
4	L	175	ARG
4	L	177	VAL
4	L	179	PHE
4	L	182	GLU
4	L	186	LEU
4	L	192	LEU
4	L	193	ASP
4	L	198	ARG
4	L	204	SER
4	L	209	GLU
4	L	217	ILE
5	M	9	ILE

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Mol	Chain	Res	Type
5	M	19	THR
5	M	20	GLU
5	M	22	GLN
5	M	26	TYR
5	M	31	GLN
5	M	39	ARG
5	M	48	PHE
5	M	49	ARG
5	M	75	GLU
5	M	77	PRO
5	M	80	GLN
5	M	81	ASP
5	M	87	ASP
5	M	88	LEU
5	M	95	TYR
5	M	98	LEU
5	M	104	ASP
5	M	110	GLU
5	M	111	ASP
5	M	112	GLU
5	M	114	PHE
5	M	115	LEU
5	M	117	HIS
5	M	121	MET
5	M	124	ASP
5	M	126	SER
5	M	136	ILE
5	M	141	HIS
5	M	142	ARG
5	M	158	TYR
5	M	163	ILE
5	M	170	PRO
5	M	173	ASP
5	M	177	GLU
5	M	178	PRO
5	M	183	SER
5	M	188	LYS
5	M	190	LYS
5	M	191	PHE
5	M	194	VAL
5	M	196	LEU
5	M	198	ARG

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Mol	Chain	Res	Type
5	M	203	ASP
5	M	205	GLU
5	M	207	LEU
5	M	211	LEU
5	M	216	GLU
5	M	217	LEU
5	M	221	LEU
5	M	225	SER
5	M	233	GLU
5	M	235	LEU
5	M	237	ARG
5	M	238	LEU
5	M	243	ARG
5	M	252	LYS
5	M	260	LEU
5	M	261	ILE
5	M	266	ARG
5	M	267	TYR
5	M	268	ASP
5	M	274	ARG
5	M	275	TYR
5	M	278	GLU
5	M	281	LEU
5	M	285	LEU
5	M	289	THR
5	M	293	PHE
5	M	297	GLU
5	M	303	PHE
5	M	308	ARG
5	M	309	TYR
5	M	321	GLU
5	M	323	ASP
5	M	328	LEU
5	M	343	GLN
5	M	345	ARG
5	M	358	ARG
5	M	359	MET
5	M	360	LEU
5	M	365	ASP
5	M	367	LEU
5	M	383	ARG
5	M	384	GLU

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Mol	Chain	Res	Type
5	M	388	ARG
5	M	390	GLN
5	M	393	GLN
5	M	394	PHE
5	M	396	ASP
5	M	399	ASN
5	M	400	PRO
5	M	418	LEU
5	M	419	THR
5	M	421	GLU
5	M	422	ARG
5	M	427	VAL
5	M	428	ARG
5	M	439	CYS
5	M	453	THR
5	M	472	ARG
5	M	474	VAL
5	M	480	THR
5	M	491	GLU
5	M	500	ASN
5	M	503	LEU
5	M	517	ARG
5	M	537	LYS
5	M	543	ASN
5	M	548	PRO
5	M	553	ASP
5	M	554	ASP
5	M	572	ILE
5	M	578	VAL
5	M	579	VAL
5	M	599	GLU
5	M	602	GLU
5	M	606	VAL
5	M	611	ILE
5	M	613	VAL
5	M	617	ASP
5	M	620	LEU
5	M	621	VAL
5	M	631	SER
5	M	635	THR
5	M	640	ARG
5	M	645	VAL

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Mol	Chain	Res	Type
5	M	657	ASP
5	M	668	LEU
5	M	670	GLN
5	M	673	LEU
5	M	677	MET
5	M	679	PHE
5	M	685	GLU
5	M	695	LEU
5	M	699	PHE
5	M	704	HIS
5	M	719	PRO
5	M	722	ILE
5	M	725	ASP
5	M	727	PRO
5	M	738	ASP
5	M	744	ARG
5	M	748	GLU
5	M	750	LYS
5	M	753	ASP
5	M	766	GLU
5	M	770	GLU
5	M	784	ASP
5	M	785	VAL
5	M	787	ASP
5	M	794	PRO
5	M	805	ARG
5	M	814	GLU
5	M	839	LEU
5	M	841	ASN
5	M	862	PRO
5	M	863	ASP
5	M	870	ILE
5	M	881	ASN
5	M	884	GLN
5	M	904	PRO
5	M	920	GLN
5	M	923	GLU
5	M	929	ARG
5	M	937	ASP
5	M	938	LYS
5	M	939	ARG
5	M	945	ARG

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Mol	Chain	Res	Type
5	M	946	ARG
5	M	950	LEU
5	M	958	THR
5	M	959	PRO
5	M	960	GLU
5	M	963	LEU
5	M	969	GLN
5	M	971	LYS
5	M	975	TYR
5	M	981	GLU
5	M	994	ILE
5	M	995	MET
5	M	999	HIS
5	M	1002	GLU
5	M	1003	ASP
5	M	1006	HIS
5	M	1010	THR
5	M	1016	ILE
5	M	1018	GLN
5	M	1026	GLN
5	M	1030	GLN
5	M	1035	MET
5	M	1052	MET
5	M	1053	LEU
5	M	1075	ASP
5	M	1079	PRO
5	M	1080	SER
5	M	1092	LEU
5	M	1097	LEU
5	M	1105	LYS
5	M	1110	ASP
5	M	1115	LEU
6	N	6	ARG
6	N	12	LEU
6	N	21	TRP
6	N	22	SER
6	N	32	ILE
6	N	34	TYR
6	N	41	ARG
6	N	56	TYR
6	N	57	GLU
6	N	58	CYS

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Mol	Chain	Res	Type
6	N	63	TYR
6	N	64	LYS
6	N	65	ARG
6	N	69	GLU
6	N	74	GLU
6	N	75	ARG
6	N	76	CYS
6	N	79	GLU
6	N	82	LYS
6	N	83	SER
6	N	85	VAL
6	N	87	ARG
6	N	103	TRP
6	N	116	LEU
6	N	127	LEU
6	N	128	TYR
6	N	130	SER
6	N	135	LEU
6	N	141	ILE
6	N	149	LYS
6	N	151	GLN
6	N	153	LEU
6	N	157	GLU
6	N	161	LEU
6	N	163	TYR
6	N	165	LYS
6	N	181	ASP
6	N	198	ARG
6	N	199	LEU
6	N	200	ASP
6	N	204	LEU
6	N	207	PHE
6	N	405	ASP
6	N	406	ASP
6	N	434	ARG
6	N	438	ASP
6	N	445	ARG
6	N	453	ASP
6	N	455	ARG
6	N	465	LEU
6	N	470	LEU
6	N	471	GLU

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Mol	Chain	Res	Type
6	N	476	GLU
6	N	489	ARG
6	N	493	ARG
6	N	504	ASP
6	N	509	PRO
6	N	512	MET
6	N	519	VAL
6	N	525	ARG
6	N	531	ASP
6	N	537	THR
6	N	549	ASN
6	N	550	ARG
6	N	553	ARG
6	N	565	ILE
6	N	575	GLN
6	N	581	LEU
6	N	590	PRO
6	N	594	PRO
6	N	600	LEU
6	N	605	ASP
6	N	608	SER
6	N	614	PHE
6	N	616	GLN
6	N	617	ASN
6	N	618	LEU
6	N	619	LEU
6	N	624	ASP
6	N	635	PRO
6	N	639	LEU
6	N	641	GLN
6	N	651	GLU
6	N	652	LEU
6	N	660	LYS
6	N	669	ASN
6	N	670	VAL
6	N	682	ASP
6	N	686	GLU
6	N	688	TRP
6	N	701	LEU
6	N	703	ASN
6	N	707	THR
6	N	709	HIS

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Mol	Chain	Res	Type
6	N	710	ARG
6	N	724	GLN
6	N	727	GLN
6	N	732	VAL
6	N	734	GLU
6	N	743	ASP
6	N	749	VAL
6	N	754	PHE
6	N	764	LEU
6	N	772	PRO
6	N	782	SER
6	N	783	ARG
6	N	784	ASP
6	N	800	LYS
6	N	805	GLU
6	N	808	THR
6	N	817	GLU
6	N	824	ASN
6	N	826	PRO
6	N	832	ARG
6	N	833	GLU
6	N	834	THR
6	N	838	ARG
6	N	855	HIS
6	N	862	ASP
6	N	863	VAL
6	N	864	VAL
6	N	875	THR
6	N	876	SER
6	N	880	ILE
6	N	884	ARG
6	N	886	VAL
6	N	892	ASP
6	N	897	TRP
6	N	902	LEU
6	N	903	ASP
6	N	911	LEU
6	N	917	GLN
6	N	920	LEU
6	N	922	LEU
6	N	925	GLU
6	N	927	THR

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Mol	Chain	Res	Type
6	N	944	THR
6	N	951	ILE
6	N	959	GLU
6	N	982	PHE
6	N	983	LEU
6	N	984	THR
6	N	988	ARG
6	N	991	GLN
6	N	1000	THR
6	N	1025	GLN
6	N	1032	PRO
6	N	1041	LEU
6	N	1042	ARG
6	N	1060	SER
6	N	1062	ARG
6	N	1070	TYR
6	N	1078	ARG
6	N	1083	ASP
6	N	1086	LEU
6	N	1087	ARG
6	N	1093	TYR
6	N	1095	THR
6	N	1100	ASP
6	N	1108	ARG
6	N	1109	GLU
6	N	1112	CYS
6	N	1114	THR
6	N	1119	SER
6	N	1124	GLN
6	N	1125	PRO
6	N	1131	SER
6	N	1135	ARG
6	N	1147	ARG
6	N	1151	ARG
6	N	1156	LEU
6	N	1160	LEU
6	N	1161	GLU
6	N	1166	LEU
6	N	1182	GLU
6	N	1183	ILE
6	N	1197	ARG
6	N	1207	TYR

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Mol	Chain	Res	Type
6	N	1208	ASP
6	N	1209	LEU
6	N	1210	SER
6	N	1211	MET
6	N	1214	PRO
6	N	1228	SER
6	N	1262	LEU
6	N	1264	GLU
6	N	1282	ARG
6	N	1285	GLU
6	N	1286	THR
6	N	1297	GLU
6	N	1299	PHE
6	N	1301	LYS
6	N	1305	LEU
6	N	1306	PRO
6	N	1311	LEU
6	N	1317	ASP
6	N	1320	GLU
6	N	1323	GLN
6	N	1336	LEU
6	N	1337	GLU
6	N	1344	VAL
6	N	1359	GLN
6	N	1363	LEU
6	N	1382	THR
6	N	1389	LEU
6	N	1396	GLU
6	N	1406	ARG
6	N	1412	LYS
6	N	1420	LEU
6	N	1431	THR
6	N	1435	LEU
6	N	1441	GLN
6	N	1449	GLU
6	N	1459	LEU
6	N	1462	LEU
6	N	1465	ASN
6	N	1472	ILE
6	N	1485	GLN
6	N	1488	ASP
6	N	1496	GLU

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Mol	Chain	Res	Type
6	N	1501	GLU
7	O	7	ASP
7	O	30	LEU
7	O	38	THR
7	O	46	PRO
7	O	51	LEU
7	O	56	ASP
7	O	57	ASP
7	O	58	PRO
7	O	59	ASN
7	O	70	THR
7	O	72	ARG
7	O	74	VAL
7	O	77	GLU
7	O	79	LEU
7	O	81	PRO
7	O	82	GLU
7	O	83	ASP
7	O	94	PRO

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

Mol	Chain	Res	Type
4	A	81	ASN
4	A	124	ASN
4	A	128	HIS
4	A	163	ASN
4	A	188	GLN
4	A	229	GLN
4	B	16	GLN
4	B	63	HIS
4	B	81	ASN
4	B	95	GLN
4	B	124	ASN
4	B	128	HIS
4	B	180	GLN
4	B	213	GLN
4	B	227	ASN
5	C	31	GLN
5	C	80	GLN
5	C	91	GLN
5	C	117	HIS

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Mol	Chain	Res	Type
5	C	139	GLN
5	C	204	GLN
5	C	390	GLN
5	C	393	GLN
5	C	434	HIS
5	C	500	ASN
5	C	538	GLN
5	C	552	HIS
5	C	609	ASN
5	C	633	GLN
5	C	639	GLN
5	C	670	GLN
5	C	671	ASN
5	C	704	HIS
5	C	829	GLN
5	C	834	GLN
5	C	841	ASN
5	C	860	HIS
5	C	872	ASN
5	C	889	HIS
5	C	899	GLN
5	C	969	GLN
5	C	991	GLN
5	C	1100	GLN
5	C	1107	ASN
6	D	125	GLN
6	D	143	ASN
6	D	151	GLN
6	D	189	GLN
6	D	462	GLN
6	D	507	ASN
6	D	549	ASN
6	D	703	ASN
6	D	724	GLN
6	D	727	GLN
6	D	756	GLN
6	D	767	HIS
6	D	816	HIS
6	D	973	GLN
6	D	976	GLN
6	D	1025	GLN
6	D	1033	GLN

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Mol	Chain	Res	Type
6	D	1103	HIS
6	D	1323	GLN
6	D	1359	GLN
6	D	1404	ASN
6	D	1441	GLN
6	D	1445	HIS
7	E	28	GLN
7	E	29	GLN
7	E	59	ASN
7	E	78	ASN
7	E	86	GLN
4	K	81	ASN
4	K	128	HIS
4	K	156	HIS
4	K	163	ASN
4	K	180	GLN
4	K	212	ASN
4	K	213	GLN
4	K	229	GLN
4	L	16	GLN
4	L	95	GLN
4	L	124	ASN
4	L	128	HIS
4	L	139	ASN
4	L	180	GLN
4	L	212	ASN
5	M	22	GLN
5	M	31	GLN
5	M	45	GLN
5	M	80	GLN
5	M	91	GLN
5	M	117	HIS
5	M	139	GLN
5	M	179	ASN
5	M	204	GLN
5	M	343	GLN
5	M	390	GLN
5	M	393	GLN
5	M	538	GLN
5	M	543	ASN
5	M	565	GLN
5	M	609	ASN

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Mol	Chain	Res	Type
5	M	633	GLN
5	M	671	ASN
5	M	683	ASN
5	M	704	HIS
5	M	834	GLN
5	M	841	ASN
5	M	860	HIS
5	M	872	ASN
5	M	889	HIS
5	M	899	GLN
5	M	969	GLN
5	M	1019	GLN
5	M	1100	GLN
5	M	1107	ASN
6	N	125	GLN
6	N	143	ASN
6	N	166	GLN
6	N	189	GLN
6	N	442	ASN
6	N	507	ASN
6	N	529	GLN
6	N	541	ASN
6	N	549	ASN
6	N	560	GLN
6	N	703	ASN
6	N	724	GLN
6	N	756	GLN
6	N	762	GLN
6	N	824	ASN
6	N	976	GLN
6	N	1025	GLN
6	N	1033	GLN
6	N	1323	GLN
6	N	1334	GLN
6	N	1441	GLN
6	N	1485	GLN
7	O	28	GLN
7	O	29	GLN
7	O	59	ASN
7	O	86	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	H	16/16 (100%)	12 (75%)	8 (50%)
2	Y	15/16 (93%)	11 (73%)	7 (46%)
All	All	31/32 (96%)	23 (74%)	15 (48%)

All (23) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	H	2	A
2	H	3	G
2	H	6	U
2	H	7	G
2	H	8	C
2	H	9	G
2	H	10	G
2	H	11	C
2	H	12	G
2	H	13	C
2	H	15	C
2	H	16	G
2	Y	2	A
2	Y	3	G
2	Y	6	U
2	Y	7	G
2	Y	8	C
2	Y	9	G
2	Y	10	G
2	Y	12	G
2	Y	13	C
2	Y	15	C
2	Y	16	G

All (15) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	H	1	G
2	H	6	U
2	H	7	G
2	H	8	C
2	H	9	G
2	H	12	G
2	H	13	C
2	H	15	C
2	Y	6	U

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Mol	Chain	Res	Type
2	Y	7	G
2	Y	8	C
2	Y	9	G
2	Y	12	G
2	Y	13	C
2	Y	15	C

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 6 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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	G	23/23 (100%)	-0.33	0	100	100	16, 38, 58, 69	0
1	X	23/23 (100%)	-0.40	0	100	100	18, 41, 74, 89	0
2	H	16/16 (100%)	-0.55	0	100	100	35, 64, 80, 84	0
2	Y	16/16 (100%)	-0.65	0	100	100	31, 54, 90, 95	0
3	I	13/14 (92%)	-0.52	0	100	100	32, 42, 61, 78	0
3	Z	13/14 (92%)	-0.50	0	100	100	37, 49, 76, 84	0
4	A	229/315 (72%)	0.15	5 (2%)	65	69	45, 75, 94, 101	0
4	B	229/315 (72%)	0.14	12 (5%)	31	35	57, 79, 94, 104	0
4	K	229/315 (72%)	0.15	7 (3%)	52	57	56, 76, 91, 97	0
4	L	229/315 (72%)	0.28	15 (6%)	22	24	48, 82, 94, 101	0
5	C	1119/1119 (100%)	0.14	50 (4%)	37	42	19, 68, 98, 119	0
5	M	1119/1119 (100%)	0.11	38 (3%)	49	54	32, 68, 96, 108	0
6	D	1303/1524 (85%)	0.13	47 (3%)	46	51	34, 68, 94, 110	0
6	N	1303/1524 (85%)	0.12	37 (2%)	56	61	35, 69, 95, 108	0
7	E	95/99 (95%)	0.05	3 (3%)	51	56	50, 70, 90, 96	0
7	O	95/99 (95%)	0.28	6 (6%)	23	26	41, 72, 98, 102	0
All	All	6054/6850 (88%)	0.12	220 (3%)	46	51	16, 70, 95, 119	0

All (220) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
6	D	135	LEU	8.2
6	N	1408	ILE	7.8
5	M	779	GLY	7.7
5	C	221	LEU	7.1
6	D	452	ILE	6.6

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Mol	Chain	Res	Type	RSRZ
5	C	291	ALA	6.3
6	N	1311	LEU	5.9
5	C	180	GLY	5.8
6	N	1321	ALA	5.8
5	C	935	GLY	5.6
5	M	778	PHE	5.3
6	N	1313	VAL	5.2
6	D	1272	ALA	5.2
7	O	95	VAL	5.2
5	C	417	GLY	5.0
6	N	186	VAL	4.9
5	C	418	LEU	4.8
6	N	1322	GLY	4.7
6	N	1407	LEU	4.7
6	N	199	LEU	4.6
6	D	619	LEU	4.6
5	C	201	GLY	4.4
6	D	1291	SER	4.4
6	N	185	VAL	4.4
5	C	269	LEU	4.4
4	L	114	PHE	4.3
6	D	393	ILE	4.3
4	L	122	ILE	4.3
6	N	141	ILE	4.3
5	M	184	MET	4.3
5	M	302	VAL	4.2
5	C	178	PRO	4.2
5	M	367	LEU	4.2
6	D	1309	ALA	4.1
5	M	311	PHE	4.1
5	C	193	LEU	4.1
5	M	774	LEU	4.0
5	C	1025	ALA	4.0
4	L	167	VAL	4.0
6	N	1291	SER	4.0
6	D	1290	LEU	4.0
5	C	1021	LEU	4.0
5	C	367	LEU	3.9
5	M	269	LEU	3.8
5	C	478	VAL	3.7
5	C	222	MET	3.7
6	D	1283	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
6	N	450	TYR	3.6
6	N	429	SER	3.6
4	K	218	LEU	3.6
6	N	470	LEU	3.6
5	M	176	VAL	3.6
4	L	142	VAL	3.6
6	D	1273	VAL	3.6
5	C	252	LYS	3.6
5	C	1001	VAL	3.6
5	C	251	ASP	3.5
5	C	218	VAL	3.5
5	C	1000	MET	3.5
5	M	1001	VAL	3.4
6	D	142	LEU	3.4
4	B	57	TYR	3.4
6	D	188	GLY	3.4
5	M	313	LEU	3.4
5	C	769	PRO	3.4
7	O	6	ILE	3.4
4	K	99	LEU	3.4
5	M	220	GLY	3.4
6	D	1200	VAL	3.3
4	L	199	ILE	3.3
6	D	1502	ALA	3.3
5	C	1002	GLU	3.3
6	N	1020	LEU	3.3
5	M	172	ILE	3.3
6	D	594	PRO	3.3
6	N	1310	ARG	3.2
5	M	174	LEU	3.2
6	D	1277	ILE	3.2
4	K	93	SER	3.2
5	C	250	ARG	3.1
5	M	260	LEU	3.1
5	C	176	VAL	3.1
5	M	737	LEU	3.1
4	K	203	GLY	3.1
6	N	834	THR	3.1
5	C	372	LEU	3.1
5	M	240	THR	3.1
6	N	153	LEU	3.0
6	N	191	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
5	C	516	ARG	3.0
5	C	248	PRO	3.0
4	A	138	LEU	3.0
4	L	225	PHE	3.0
5	C	211	LEU	3.0
5	M	255	ALA	3.0
5	C	656	ALA	3.0
6	N	639	LEU	2.9
4	L	4	SER	2.9
4	A	4	SER	2.9
5	M	761	PHE	2.9
6	N	633	VAL	2.9
4	B	156	HIS	2.9
6	N	1487	VAL	2.8
6	N	207	PHE	2.8
6	D	193	PRO	2.8
4	K	150	TYR	2.8
4	L	109	VAL	2.8
5	C	564	MET	2.8
6	D	809	PRO	2.8
4	K	2	LEU	2.8
4	B	56	VAL	2.8
5	C	231	PRO	2.8
6	N	192	ALA	2.8
6	N	202	VAL	2.8
6	D	120	ALA	2.8
4	L	99	LEU	2.7
5	M	645	VAL	2.7
7	O	84	ARG	2.7
4	A	148	VAL	2.7
6	D	134	VAL	2.7
6	D	443	VAL	2.7
5	C	477	GLY	2.7
5	M	853	LEU	2.6
6	N	839	LEU	2.6
6	D	407	VAL	2.6
5	M	270	GLY	2.6
4	B	195	LEU	2.6
6	D	1390	LEU	2.6
7	E	6	ILE	2.6
6	N	1411	GLY	2.6
5	M	765	SER	2.6

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Mol	Chain	Res	Type	RSRZ
6	D	1298	GLY	2.5
5	C	239	PHE	2.5
5	C	197	LEU	2.5
4	B	43	ILE	2.5
5	C	255	ALA	2.5
4	A	195	LEU	2.5
6	D	1144	LEU	2.5
6	N	1294	VAL	2.5
4	L	25	LEU	2.5
7	O	85	LEU	2.5
4	L	195	LEU	2.4
5	C	1119	ARG	2.4
6	N	63	TYR	2.4
5	M	729	LEU	2.4
6	N	1277	ILE	2.4
5	C	202	TYR	2.4
6	N	1274	ILE	2.4
5	C	42	VAL	2.4
6	D	804	LEU	2.4
6	D	199	LEU	2.3
4	B	37	GLY	2.3
5	C	944	LEU	2.3
6	D	922	LEU	2.3
6	D	1407	LEU	2.3
5	M	516	ARG	2.3
5	C	1111	ILE	2.3
4	L	229	GLN	2.3
7	O	63	TRP	2.3
5	M	813	VAL	2.3
5	C	885	ILE	2.3
6	D	195	VAL	2.3
4	L	184	THR	2.3
4	K	158	ILE	2.2
5	M	766	GLU	2.2
6	D	900	ILE	2.2
7	E	10	PHE	2.2
5	M	418	LEU	2.2
6	D	186	VAL	2.2
6	N	978	TYR	2.2
6	D	1068	LEU	2.2
6	D	121	THR	2.2
6	N	836	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
5	C	892	LEU	2.2
4	B	78	ILE	2.2
6	D	992	ILE	2.2
4	B	2	LEU	2.2
4	L	56	VAL	2.2
5	C	474	VAL	2.2
6	D	679	ARG	2.2
5	C	259	GLY	2.2
7	E	89	MET	2.2
5	C	120	LEU	2.2
6	D	1429	LEU	2.2
4	B	124	ASN	2.2
4	B	122	ILE	2.1
6	N	619	LEU	2.1
5	C	973	VAL	2.1
5	M	416	GLY	2.1
5	M	291	ALA	2.1
6	D	450	TYR	2.1
5	C	690	ILE	2.1
5	C	890	LEU	2.1
6	D	144	GLY	2.1
6	D	446	VAL	2.1
6	D	761	ILE	2.1
5	M	359	MET	2.1
6	N	1040	GLY	2.1
6	D	686	GLU	2.1
5	C	1042	ALA	2.1
5	M	417	GLY	2.1
5	M	773	LEU	2.1
6	N	155	ASP	2.1
4	L	214	ALA	2.1
5	M	897	LEU	2.1
6	D	812	ALA	2.0
5	M	1000	MET	2.0
4	B	165	ILE	2.0
4	B	138	LEU	2.0
7	O	92	LEU	2.0
4	A	54	THR	2.0
6	N	875	THR	2.0
5	M	467	ILE	2.0
6	D	1140	ILE	2.0
6	D	813	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
5	M	272	ALA	2.0
5	C	60	GLY	2.0
5	M	215	GLY	2.0
6	D	201	GLY	2.0
6	D	442	ASN	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 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	LLDF	B-factors(Å ²)	Q<0.9
8	ZN	N	5058	1/1	0.96	0.17	0.32	71,71,71,71	0
8	ZN	D	6112	1/1	0.99	0.14	-0.34	65,65,65,65	0
8	ZN	N	7112	1/1	0.99	0.14	-0.50	73,73,73,73	0
8	ZN	D	4058	1/1	0.96	0.10	-1.59	82,82,82,82	0
9	MG	D	8001	1/1	0.99	0.11	-2.95	27,27,27,27	0
9	MG	N	8002	1/1	0.98	0.08	-	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.