



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:55 PM GMT

PDB ID : 4YLO
Title : E. coli Transcription Initiation Complex - 16-bp spacer and 4-nt RNA
Authors : Zuo, Y.; Steitz, T.A.
Deposited on : 2015-03-05
Resolution : 6.00 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

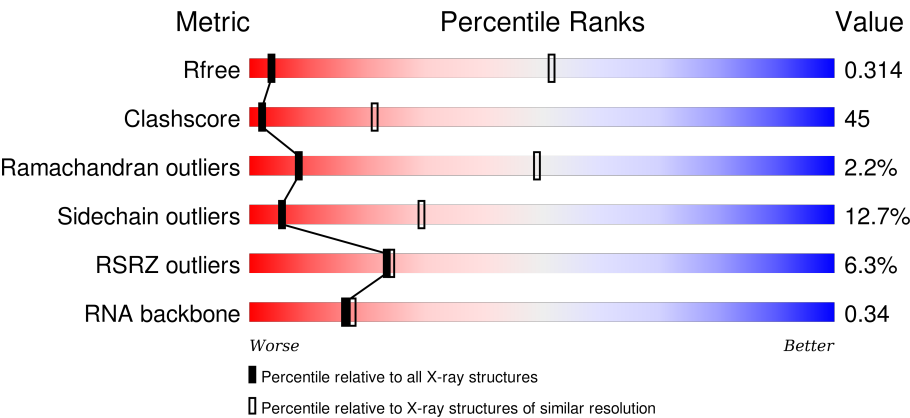
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 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	1002 (8.30-3.66)
Clashscore	102246	1050 (8.30-3.70)
Ramachandran outliers	100387	1023 (8.30-3.66)
Sidechain outliers	100360	1012 (8.30-3.64)
RSRZ outliers	91569	1001 (8.30-3.66)
RNA backbone	2183	1103 (8.70-2.80)

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

Mol	Chain	Length	Quality of chain
1	A	242	<div><div>2%</div><div><div></div><div></div><div></div><div></div></div><div>47%40%8%5%</div></div>
1	B	242	<div><div>2%</div><div><div></div><div></div><div></div><div></div></div><div>41%47%6%6%</div></div>
1	G	242	<div><div>7%</div><div><div></div><div></div><div></div><div></div></div><div>41%48%7%5%</div></div>
1	H	242	<div><div>7%</div><div><div></div><div></div><div></div><div></div></div><div>45%44%5%6%</div></div>

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

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
10	ZN	D	1502	-	-	X	-

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 94608 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase subunit alpha.

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

There are 42 discrepancies between the modelled and reference sequences:

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

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

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

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

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

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

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

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

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

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

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

There are 45 discrepancies between the modelled and reference sequences:

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

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

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

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

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

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

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

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

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

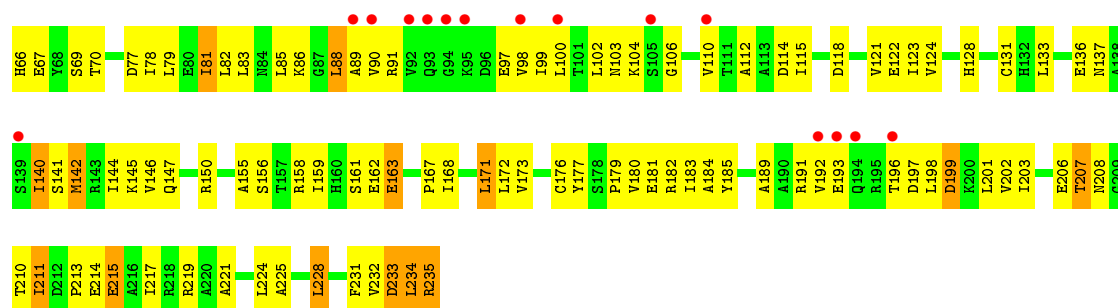
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	P	1	Total	Mg	0	0
			1	1		
9	J	1	Total	Mg	0	0
			1	1		
9	C	1	Total	Mg	0	0
			1	1		

- Molecule 10 is ZINC ION (three-letter code: ZN) (formula: Zn).

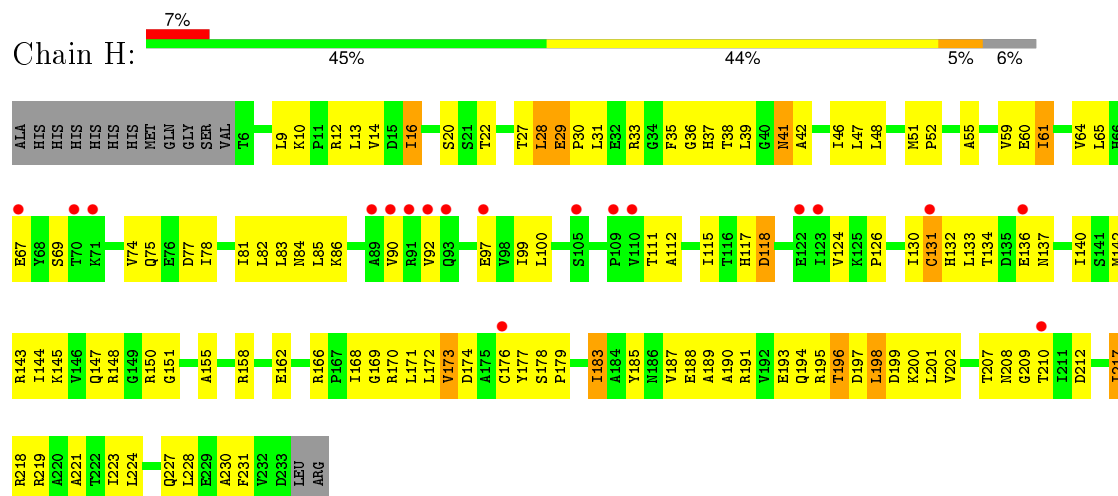
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	P	2	Total	Zn	0	0
			2	2		
10	J	2	Total	Zn	0	0
			2	2		
10	D	2	Total	Zn	0	0
			2	2		

- Molecule 1: DNA-directed RNA polymerase subunit alpha

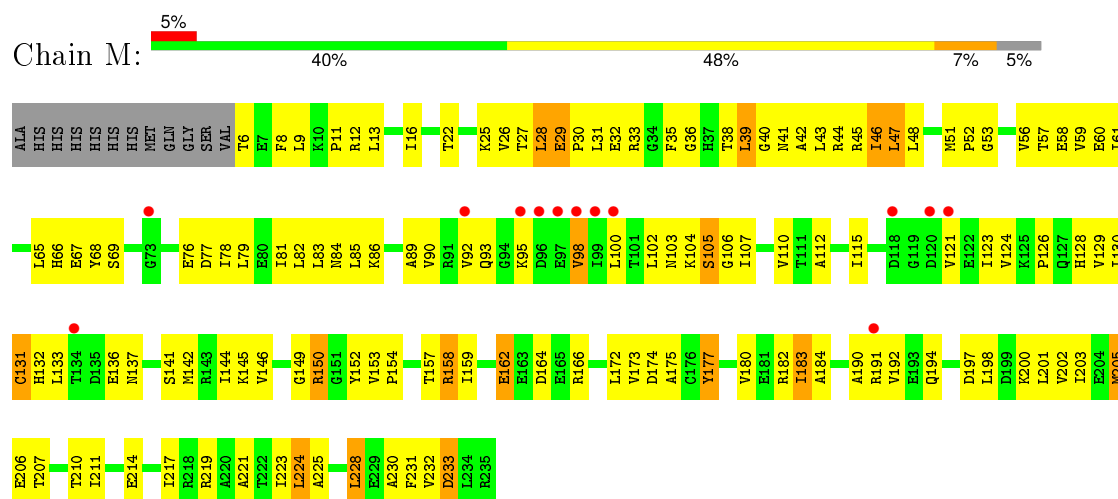




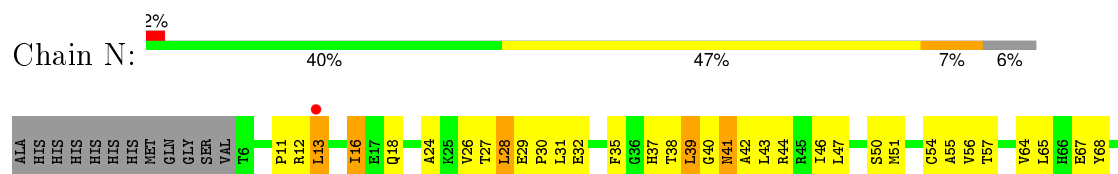
• Molecule 1: DNA-directed RNA polymerase subunit alpha

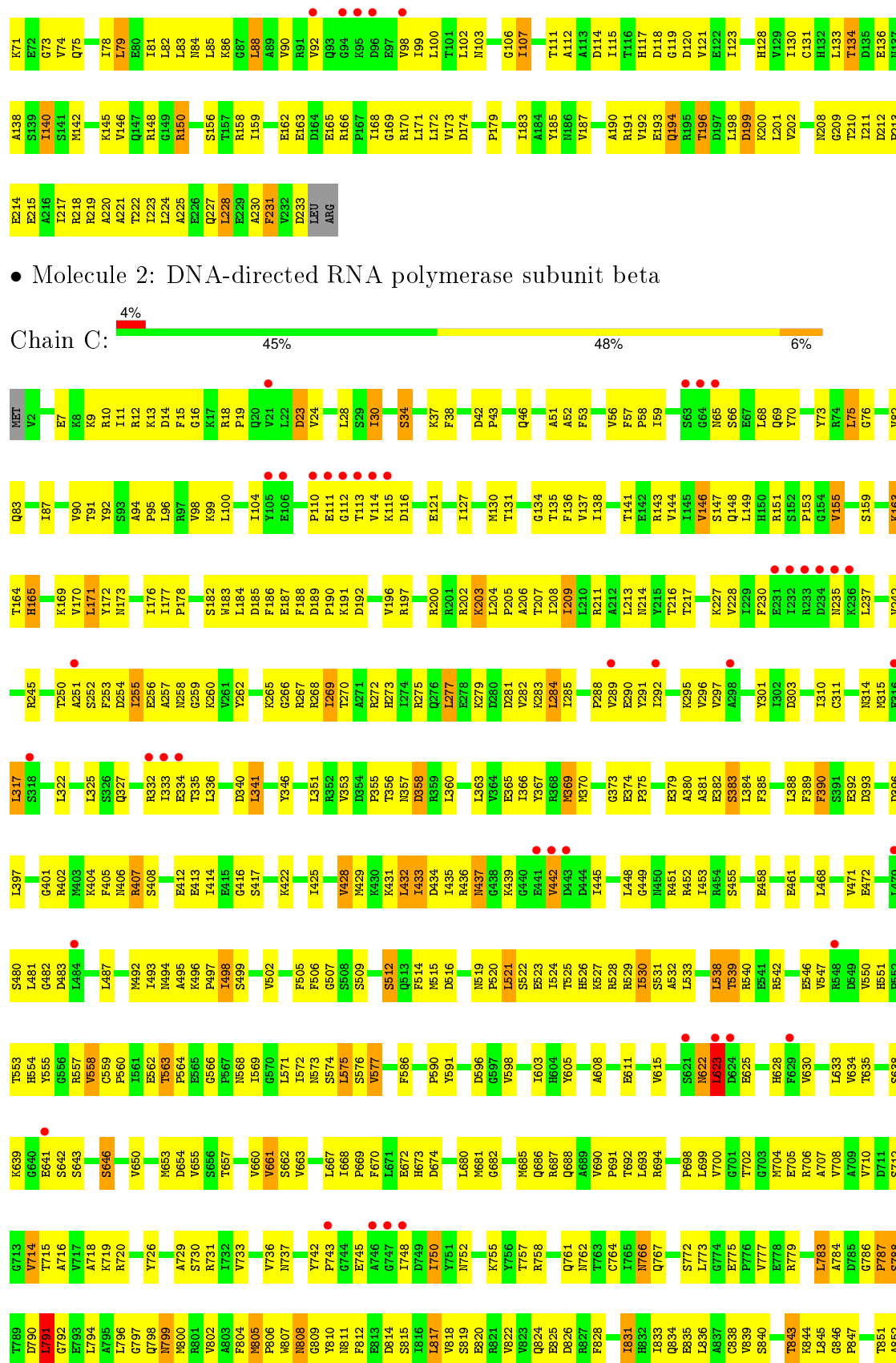


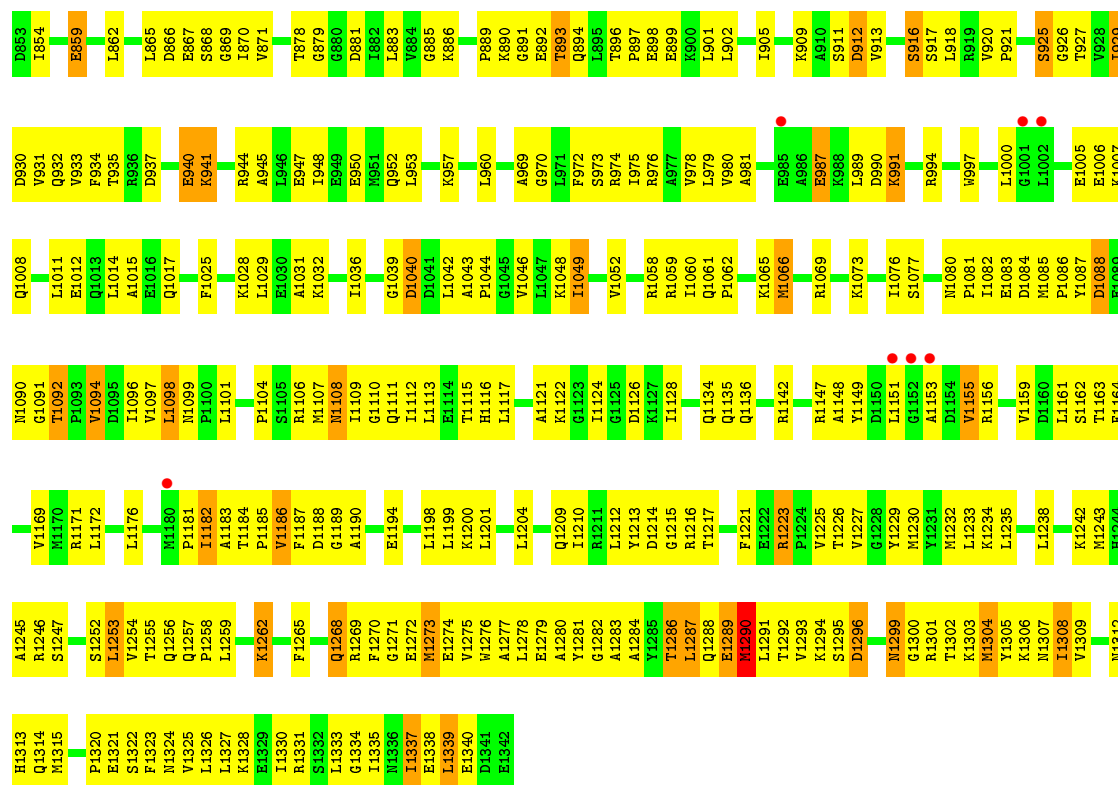
• Molecule 1: DNA-directed RNA polymerase subunit alpha



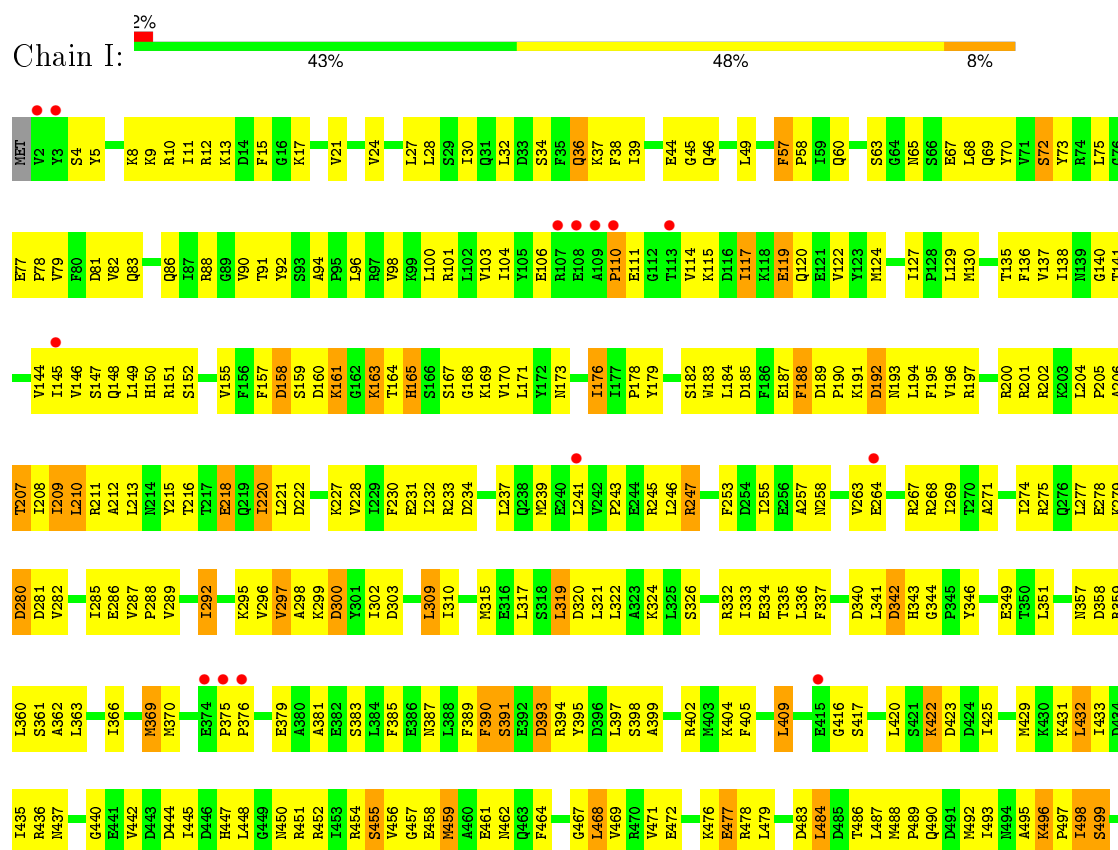
• Molecule 1: DNA-directed RNA polymerase subunit alpha

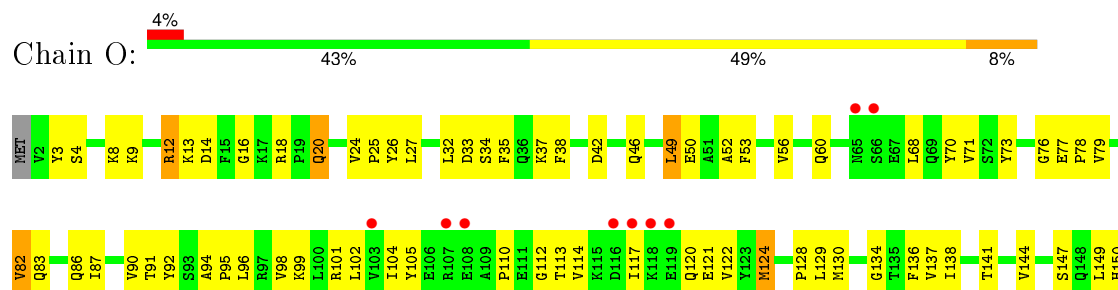




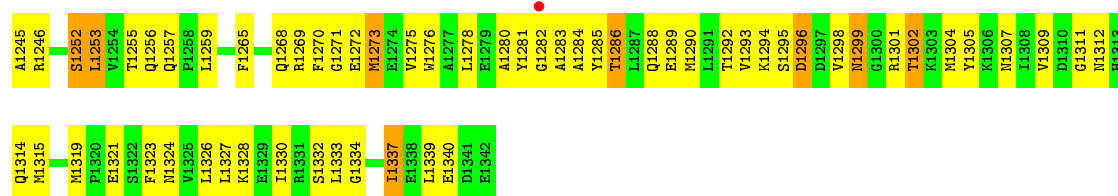


- Molecule 2: DNA-directed RNA polymerase subunit beta

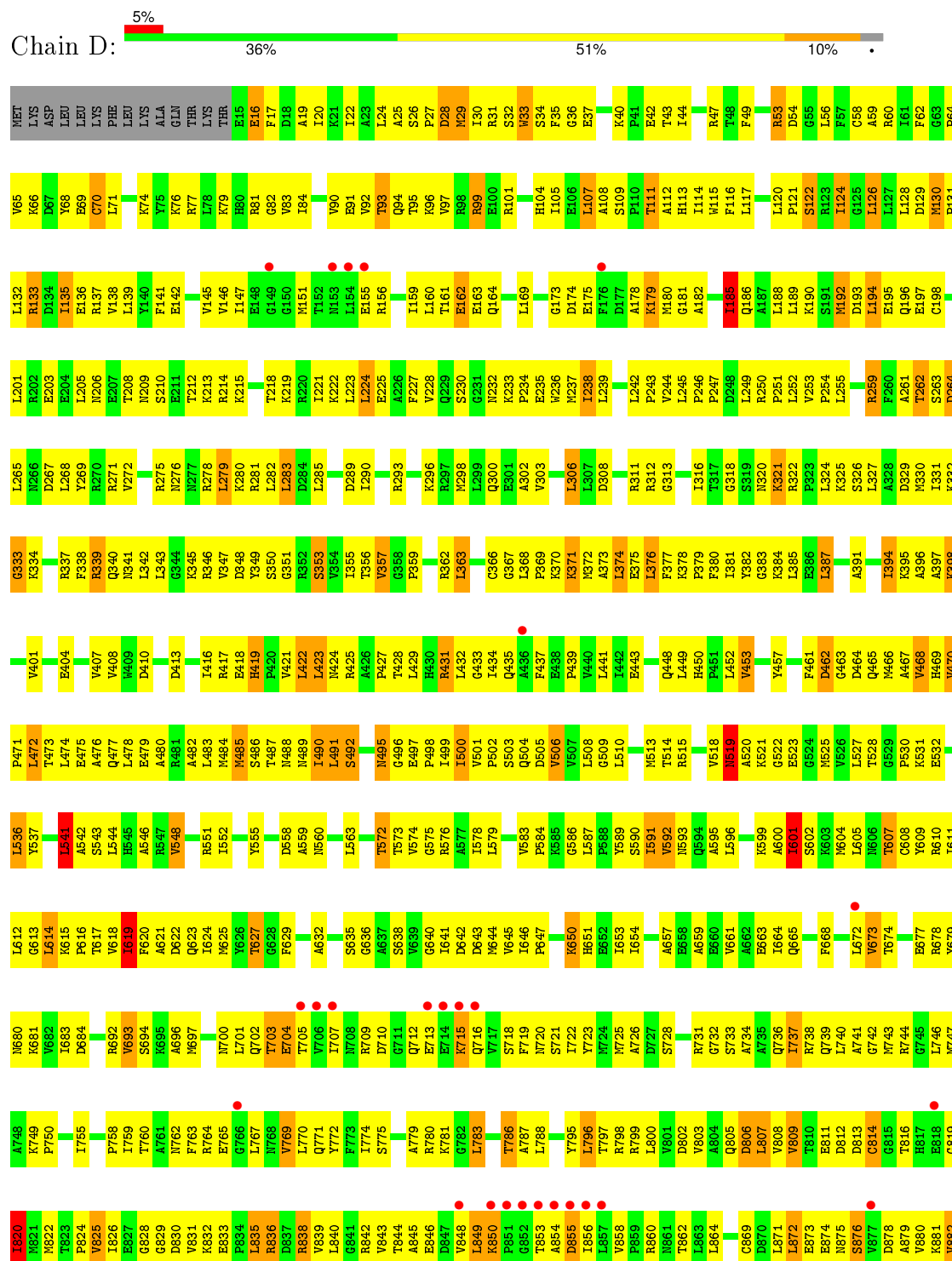


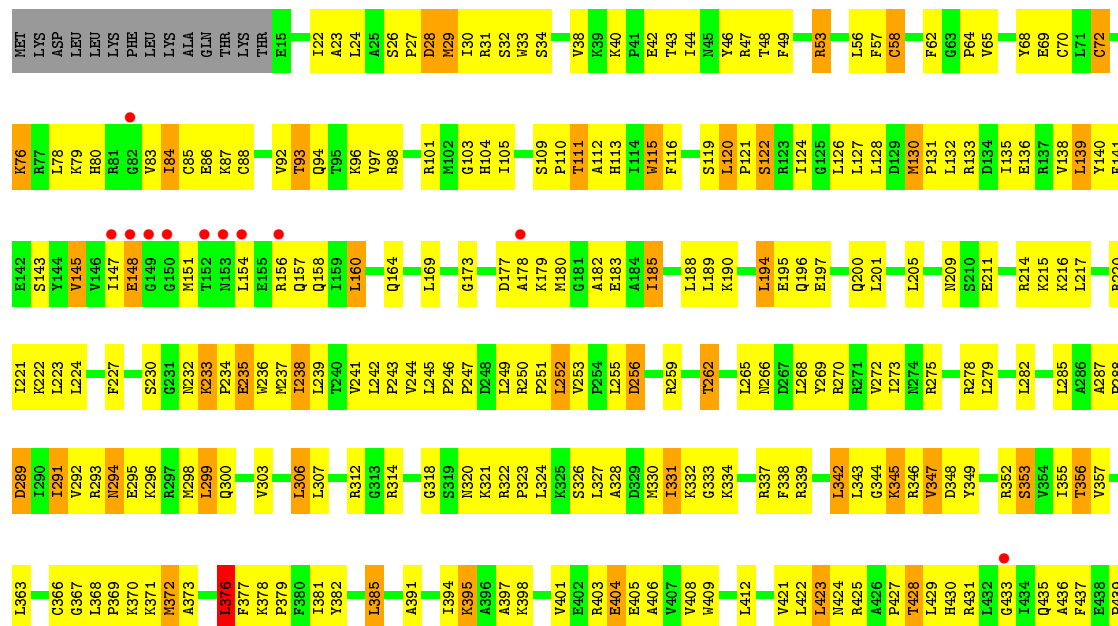


E1174	H1099	L1014	T985	N856	G792	Q725	Q858	A579	F505	V428	V353	E286	N214	R151
H1175	P1100	L1017	R936	E859	E793	Q726	Q859	E583	S509	M429	D394	V287	Y215	S152
L1176	L1101	Q1017	D937	E859	L794	Y726	V660	E584	S509	K431	P355	P288	T216	P153
K1178	P1103	D1018	D942	L862	A795	Y727	V661	G585	F514	I432	N357	V289	T217	G154
H1179	H1019	D1019	K943	L862	L796	D728	S662	G586	M515	L433	D358	E218	E218	V155
M1180	S1105	E1020	R944	L865	Q798	S730	G664	L587	M519	I434	N358	I292	E218	F156
P1181	L1106	L1021	A945	D866	N799	S731	A685	E587	M519	D434	L363	A293	F157	F157
I1182	M1107	L1022	L946	E867	M800	I732	S666	P590	P520	I435	L363	G294	E225	D156
A1183	N1108	E1024	E947	S868	R801	V733	L687	Y591	S522	R436	I366	G295	E226	
T1184	F1025	F1025	I948	G869	V802	I734	I688	S592	S522	N437	I367	V297	E227	K161
P1185	E949	E949	I870	A803	A803	K735	P669	K593	E523	D444	R368	A298	I229	G162
H1186	E950	F804	V871	F804	F804	V736	P670	T525	E524	I445	R369	K299	E231	K163
F1187	A951	M805	Y872	Y872	M805	I737	L671	T525	T525	I445	H370	I232	I232	T164
D1188	Q952	P806	I873	I873	P806	E738	E672	E526	D446	D446	R371	I302	E233	H165
G1189	L953	M807	G878	G878	M807	D739	H673	H527	H447	H447	P372	D303	E234	S167
A1190	K954	N808	T878	T878	N808	E740	D674	B528	L448	L448	G374	E304	K235	G168
	A956	G809	G879	G879	G809	E741	D675	B529	G449	G449	G374	K236	K236	K169
	K957	N810	G880	G880	N810	Y742	A676	B530	M450	M450	P375	T306	L237	V170
		N811	G882	G882	N811	F743	M677	I533	R451	R451	P376	G307	Q238	L171
		F812	A883	A883	F812	G744	R678	L533	R452	R452	T377	I310	E239	I172
		E813	M884	M884	E813	E745	A679	G537	I453	I453	R378	C311	E240	N173
		D814	N885	N885	D814	A746	L680	E542	R454	R454	E379	A312	L241	
		S815	Q886	Q886	S815	I748	G682	E542	S455	S455	E379	A313	V242	
		L817	A883	A883	L817	D749	E610	E542	M459	M459	I384	N314	R245	P178
		R821	G888	G888	R821	Y756	E622	E546	G467	G467	S391	A315	R247	P179
		V823	Q888	Q888	V823	Y757	N623	E546	L468	L468	F389	E316	R247	R180
		W823	A889	A889	W823	R758	L623	R543	R470	R470	F390	L317	R247	G181
		Q824	B690	B690	Q824	S759	D624	R543	E471	E471	Y395	D320	R247	S182
		E825	B691	B691	E825	N760	E625	R551	V472	V472	D396	L321	E251	L184
		D826	T892	T892	D826	Q761	E626	E551	E472	E472	L397	L322	T255	D185
		R827	L693	L693	R827	N762	G627	E551	E472	E472	R402	A323	K260	F186
		T828	G693	G693	T828	Y763	H628	E554	K476	K476	M403	K324	R260	F187
		R829	F765	F765	R829	G764	P629	E554	K476	K476	M403	L325	V261	D189
		I831	N766	N766	I831	I765	G630	E557	L481	L481	K404	S326	Y262	P190
		H832	Q767	Q767	H832	Y766	D632	V558	Q482	Q482	F405	K331	Y263	K191
		I833	Q767	Q767	I833	Y767	L633	C559	D483	D483	M406	R332	E264	D192
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		E835	S772	S772	E835	L773	T635	I561	D485	D485	L409	I333	Q266	F195
		L836	Y773	Y773	L836	Y774	G636	E562	M488	M488	L410	E334	Q266	V196
		C838	V777	V777	C838	Y778	M704	T563	P489	P489	R411	T335	I269	R197
		V839	E778	E778	V839	Y779	E705	P564	Q490	Q490	E412	L336	T270	I198
		S840	R779	R779	S840	Y779	R706	E565	D491	D491	E413	T338	A271	D199
		T843	S840	S840	T843	Y780	A707	G566	M492	M492	I414	R339	R272	R200
		R844	Y782	Y782	R844	Y783	V708	N568	I493	I493	E415	I341	I274	R201
		E848	L783	L783	E848	Y784	A709	E569	M494	M494	G416	D342	R275	K202
		B848	A784	A784	B848	Y785	V710	G570	A495	A495	I419	D342	Q276	L204
		T851	D785	D785	T851	Y786	L644	L571	K496	K496	L420	R343	L277	P205
		A852	G786	G786	A852	Y787	R647	L572	P497	P497	E413	G344	E278	A206
		B853	S788	S788	B853	Y788	Y715	N573	K498	K498	I422	P345	R279	T207
		I854	S788	S788	I854	Y789	M652	S574	S499	S499	D424	Y346	D280	T208
		P855	Y790	Y790	P855	Y791	M653	L575	A500	A500	D424	I347	I281	T209
			D790	D790		Y791	S656	S576	A501	A501	I425	S348	V282	L210
			R720	R720		Y791	S656	S576	A501	A501	I425	S348	K283	L211
													L284	A212
													I285	L213



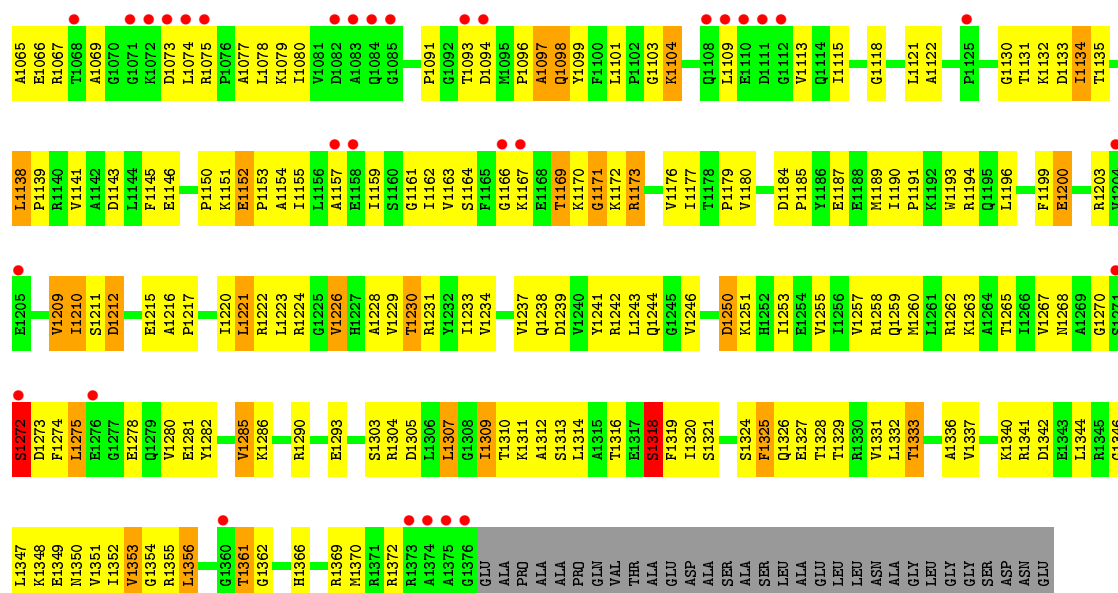
• Molecule 3: DNA-directed RNA polymerase subunit beta'



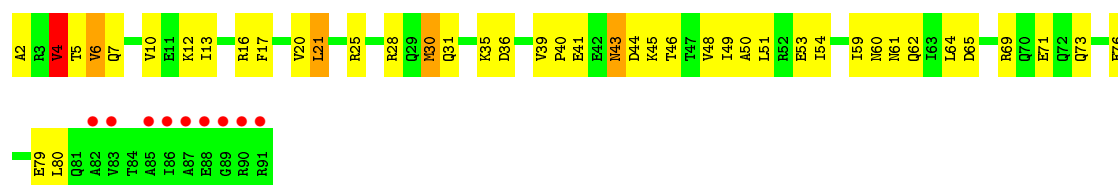


- Molecule 3: DNA-directed RNA polymerase subunit beta'

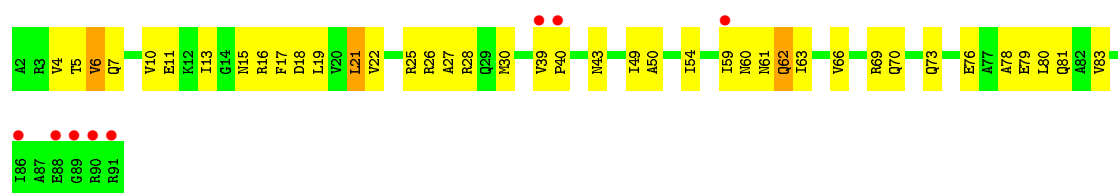




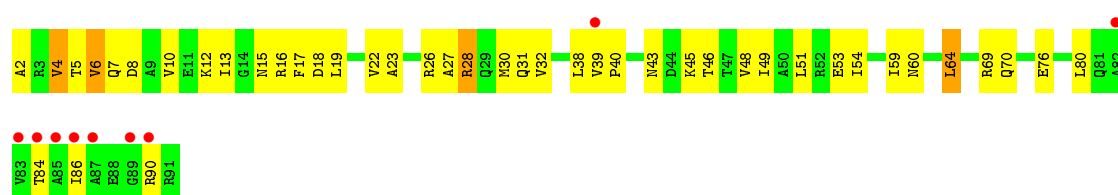
• Molecule 4: DNA-directed RNA polymerase subunit omega



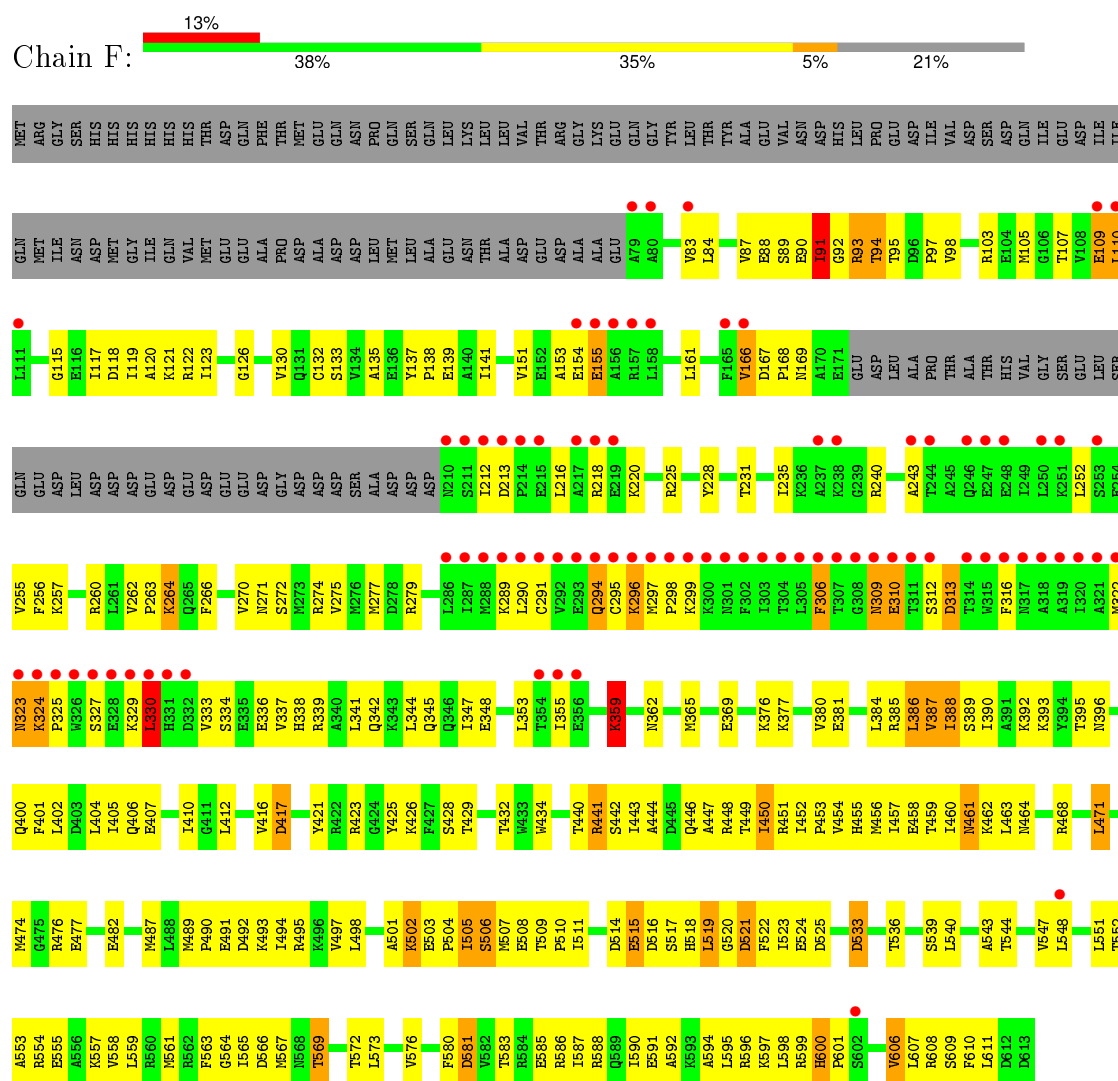
• Molecule 4: DNA-directed RNA polymerase subunit omega



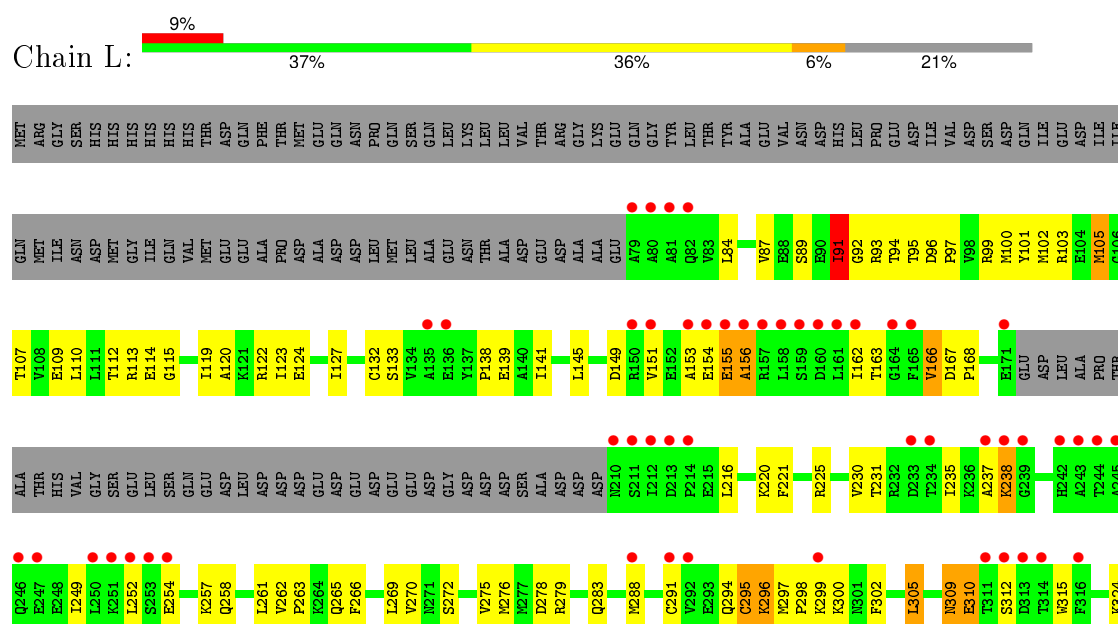
• Molecule 4: DNA-directed RNA polymerase subunit omega

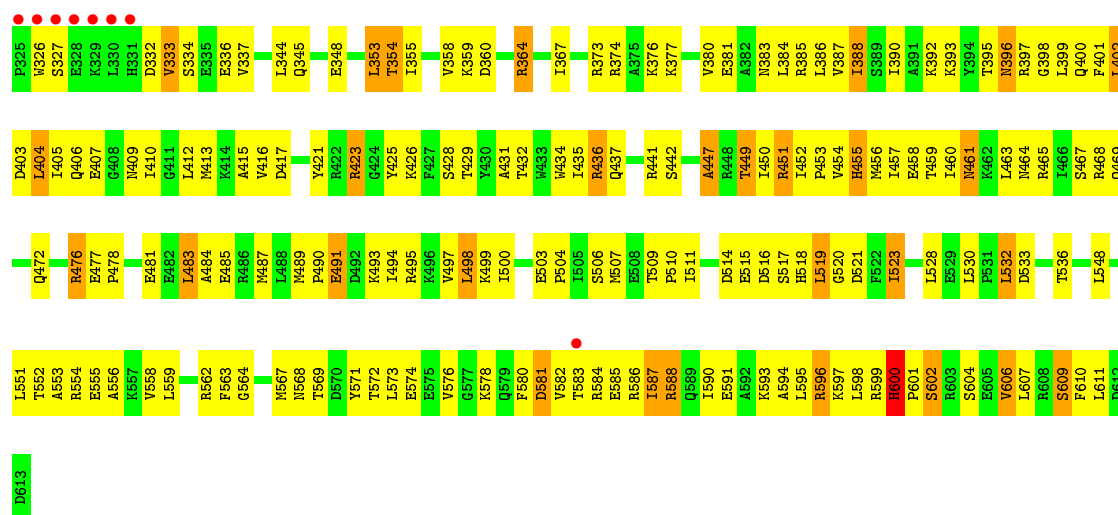


• Molecule 5: RNA polymerase sigma factor RpoD

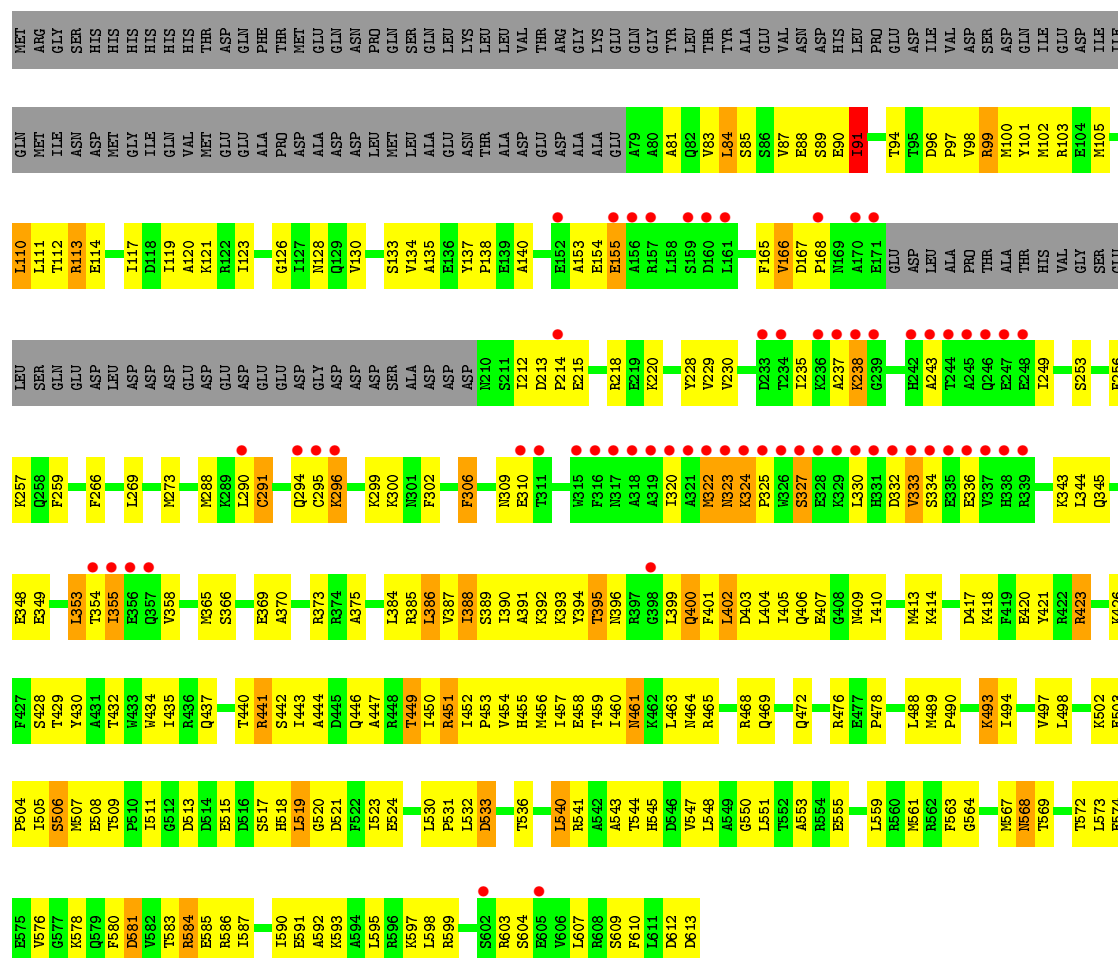


- Molecule 5: RNA polymerase sigma factor RpoD





• Molecule 5: RNA polymerase sigma factor RpoD



• Molecule 6: NT strand DNA (49-MER)

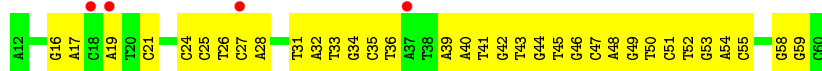




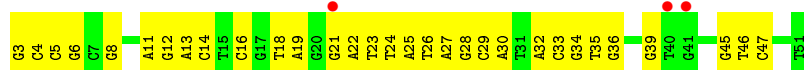
- Molecule 6: NT strand DNA (49-MER)



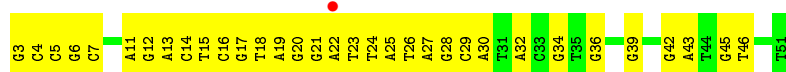
- Molecule 6: NT strand DNA (49-MER)



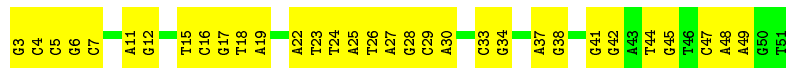
- Molecule 7: T strand DNA (49-MER)



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



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



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



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



G13
A14
G15
U16

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

Chain 9:

50%

50%

G13
A14
G15
U16

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	240.89Å 208.17Å 256.32Å 90.00° 119.31° 90.00°	Depositor
Resolution (Å)	39.95 – 6.00 39.95 – 6.00	Depositor EDS
% Data completeness (in resolution range)	99.6 (39.95-6.00) 100.0 (39.95-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.44 (at 6.13Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.227 , 0.314 0.227 , 0.314	Depositor DCC
R_{free} test set	2938 reflections (5.61%)	DCC
Wilson B-factor (Å ²)	343.5	Xtriage
Anisotropy	0.527	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 254.0	EDS
Estimated twinning fraction	0.035 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 55313 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	94608	wwPDB-VP
Average B, all atoms (Å ²)	238.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.84% 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: GTP, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.59	0/1809	0.85	2/2450 (0.1%)
1	B	0.57	0/1789	0.84	1/2425 (0.0%)
1	G	0.60	1/1809 (0.1%)	0.83	1/2450 (0.0%)
1	H	0.57	0/1789	0.79	1/2425 (0.0%)
1	M	0.63	0/1809	0.87	2/2450 (0.1%)
1	N	0.60	0/1789	0.87	0/2425
2	C	0.58	3/10745 (0.0%)	0.79	11/14499 (0.1%)
2	I	0.61	3/10745 (0.0%)	0.81	3/14499 (0.0%)
2	O	0.61	4/10745 (0.0%)	0.81	4/14499 (0.0%)
3	D	0.66	3/10729 (0.0%)	0.91	20/14487 (0.1%)
3	J	0.63	2/10729 (0.0%)	0.85	15/14487 (0.1%)
3	P	0.59	4/10729 (0.0%)	0.80	9/14487 (0.1%)
4	E	0.62	0/710	0.89	1/956 (0.1%)
4	K	0.56	0/710	0.72	0/956
4	Q	0.55	0/710	0.74	1/956 (0.1%)
5	F	0.56	2/4076 (0.0%)	0.77	1/5482 (0.0%)
5	L	0.59	0/4076	0.78	2/5482 (0.0%)
5	R	0.55	0/4076	0.77	2/5482 (0.0%)
6	1	0.39	0/1112	0.67	0/1706
6	4	0.51	1/1114 (0.1%)	0.73	0/1714
6	7	0.39	0/1115	0.70	0/1718
7	2	0.38	0/1136	0.66	0/1752
7	5	0.41	0/1137	0.69	0/1756
7	8	0.36	0/1137	0.68	0/1756
8	3	0.33	0/72	0.58	0/110
8	6	0.50	0/72	0.71	0/110
8	9	0.50	0/72	0.65	0/110
All	All	0.59	23/96541 (0.0%)	0.81	76/131629 (0.1%)

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

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	J	0	1
3	P	0	1
All	All	0	2

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	O	316	GLU	CD-OE2	13.14	1.40	1.25
3	J	943	ARG	CZ-NH1	11.93	1.48	1.33
3	D	431	ARG	CZ-NH1	11.55	1.48	1.33
2	I	565	GLU	CB-CG	10.38	1.71	1.52
3	P	1152	GLU	CD-OE2	-9.69	1.15	1.25
2	C	641	GLU	CB-CG	8.01	1.67	1.52
2	O	316	GLU	CD-OE1	7.74	1.34	1.25
5	F	359	LYS	CE-NZ	7.47	1.67	1.49
3	P	1272	SER	CB-OG	7.36	1.51	1.42
5	F	359	LYS	CD-CE	7.02	1.68	1.51
3	P	846	GLU	CD-OE1	6.72	1.33	1.25
2	O	252	SER	CB-OG	6.45	1.50	1.42
6	4	46	DG	O3'-P	6.33	1.68	1.61
3	D	70	CYS	CB-SG	6.14	1.92	1.82
3	D	431	ARG	CZ-NH2	5.83	1.40	1.33
2	I	119	GLU	CD-OE1	5.77	1.31	1.25
2	C	1289	GLU	CG-CD	5.51	1.60	1.51
3	J	236	TRP	CB-CG	5.50	1.60	1.50
2	O	626	GLU	CD-OE1	5.44	1.31	1.25
1	G	182	ARG	NE-CZ	5.32	1.40	1.33
3	P	846	GLU	CD-OE2	5.19	1.31	1.25
2	I	279	LYS	CG-CD	5.18	1.70	1.52
2	C	847	PRO	N-CD	5.01	1.54	1.47

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	359	LYS	CG-CD-CE	-8.94	85.08	111.90
3	D	431	ARG	NE-CZ-NH2	-8.33	116.13	120.30
3	J	943	ARG	NE-CZ-NH2	-8.10	116.25	120.30
1	M	29	GLU	C-N-CD	-7.94	103.14	120.60
3	D	376	LEU	CA-CB-CG	-7.68	97.62	115.30
3	D	120	LEU	C-N-CD	-7.18	104.81	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	943	ARG	NH1-CZ-NH2	-7.18	111.50	119.40
3	D	1332	LEU	CA-CB-CG	-7.09	98.98	115.30
3	D	619	ILE	CB-CA-C	-7.02	97.56	111.60
3	J	342	LEU	CA-CB-CG	-6.89	99.44	115.30
3	P	737	ILE	CB-CA-C	-6.87	97.85	111.60
3	P	139	LEU	CA-CB-CG	-6.82	99.63	115.30
3	D	1234	VAL	CB-CA-C	-6.75	98.57	111.40
3	D	84	ILE	CB-CA-C	-6.62	98.36	111.60
1	A	224	LEU	CA-CB-CG	-6.55	100.23	115.30
3	J	120	LEU	C-N-CD	-6.46	106.38	120.60
3	D	185	ILE	CB-CA-C	-6.34	98.92	111.60
4	E	21	LEU	CA-CB-CG	-6.25	100.92	115.30
1	G	182	ARG	NE-CZ-NH1	6.25	123.42	120.30
3	P	747	MET	CG-SD-CE	-6.19	90.29	100.20
3	D	872	LEU	CA-CB-CG	-6.11	101.25	115.30
1	H	29	GLU	C-N-CD	-6.07	107.25	120.60
3	J	1332	LEU	CA-CB-CG	-6.02	101.45	115.30
1	B	13	LEU	CA-CB-CG	5.96	129.00	115.30
3	D	1229	VAL	CB-CA-C	-5.93	100.12	111.40
3	J	1255	VAL	CB-CA-C	-5.90	100.19	111.40
3	D	472	LEU	CB-CG-CD2	5.85	120.95	111.00
2	I	498	ILE	CB-CA-C	-5.85	99.90	111.60
3	D	1287	ILE	CB-CA-C	-5.76	100.08	111.60
3	D	820	ILE	CB-CA-C	-5.76	100.08	111.60
2	O	1233	LEU	CA-CB-CG	-5.74	102.10	115.30
2	O	1253	LEU	CA-CB-CG	-5.73	102.12	115.30
3	J	943	ARG	NE-CZ-NH1	5.72	123.16	120.30
2	C	1253	LEU	CA-CB-CG	-5.72	102.15	115.30
2	I	57	PHE	C-N-CD	-5.71	108.04	120.60
3	P	541	LEU	CA-CB-CG	-5.68	102.24	115.30
3	P	864	LEU	CA-CB-CG	-5.66	102.29	115.30
3	D	506	VAL	CB-CA-C	-5.65	100.66	111.40
2	C	1308	ILE	CB-CA-C	-5.65	100.30	111.60
2	C	428	VAL	CB-CA-C	-5.61	100.73	111.40
3	D	1351	VAL	CB-CA-C	-5.61	100.74	111.40
3	P	24	LEU	CA-CB-CG	-5.61	102.40	115.30
2	C	1339	LEU	CA-CB-CG	5.59	128.16	115.30
3	P	774	ILE	CB-CA-C	-5.56	100.47	111.60
3	D	601	ILE	CB-CA-C	-5.47	100.66	111.60
3	J	774	ILE	CB-CA-C	-5.46	100.68	111.60
3	J	72	CYS	CA-CB-SG	5.45	123.81	114.00
2	C	1290	MET	CB-CG-SD	-5.44	96.08	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	946	LEU	CA-CB-CG	-5.38	102.92	115.30
3	D	973	LEU	CA-CB-CG	5.38	127.67	115.30
2	I	210	LEU	CA-CB-CG	-5.37	102.94	115.30
3	J	1347	LEU	CA-CB-CG	5.34	127.59	115.30
2	C	623	LEU	CA-CB-CG	5.33	127.56	115.30
5	L	305	LEU	CA-CB-CG	5.33	127.56	115.30
3	D	387	LEU	CA-CB-CG	5.30	127.50	115.30
3	J	803	VAL	CB-CA-C	-5.29	101.35	111.40
2	C	30	ILE	CB-CA-C	-5.27	101.05	111.60
5	R	111	LEU	CA-CB-CG	5.26	127.40	115.30
2	C	57	PHE	C-N-CD	-5.24	109.08	120.60
5	R	386	LEU	CA-CB-CG	5.18	127.21	115.30
1	A	43	LEU	CA-CB-CG	5.17	127.19	115.30
3	P	78	LEU	CA-CB-CG	5.16	127.16	115.30
2	C	498	ILE	CB-CA-C	-5.15	101.30	111.60
5	L	398	GLY	N-CA-C	-5.15	100.23	113.10
2	C	577	VAL	CB-CA-C	-5.15	101.62	111.40
3	J	376	LEU	CA-CB-CG	-5.13	103.50	115.30
4	Q	64	LEU	CA-CB-CG	-5.12	103.53	115.30
3	D	283	LEU	CA-CB-CG	5.09	127.00	115.30
3	J	139	LEU	CA-CB-CG	-5.08	103.61	115.30
3	J	38	VAL	CB-CA-C	-5.07	101.77	111.40
3	J	1177	ILE	CB-CA-C	-5.06	101.47	111.60
1	M	47	LEU	CA-CB-CG	-5.06	103.66	115.30
3	P	960	LEU	CA-CB-CG	5.06	126.93	115.30
2	C	317	LEU	CB-CG-CD2	-5.03	102.45	111.00
3	D	541	LEU	CB-CA-C	5.02	119.74	110.20
2	O	623	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	J	943	ARG	Sidechain
3	P	210	SER	Peptide

5.2 Too-close contacts

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

the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1787	0	1813	190	0
1	B	1767	0	1789	200	0
1	G	1787	0	1813	179	0
1	H	1767	0	1789	145	0
1	M	1787	0	1813	260	0
1	N	1767	0	1789	213	0
2	C	10576	0	10591	945	0
2	I	10576	0	10591	991	0
2	O	10576	0	10591	1002	1
3	D	10568	0	10781	1353	1
3	J	10568	0	10782	1175	0
3	P	10568	0	10780	1041	1
4	E	708	0	719	65	0
4	K	708	0	719	40	0
4	Q	708	0	719	46	0
5	F	4022	0	4083	368	1
5	L	4022	0	4083	367	0
5	R	4022	0	4083	348	0
6	1	996	0	557	71	0
6	4	996	0	555	103	1
6	7	996	0	554	69	0
7	2	1012	0	554	65	0
7	5	1012	0	553	62	0
7	8	1012	0	553	66	0
8	3	97	0	44	21	0
8	6	97	0	44	6	0
8	9	97	0	44	19	0
9	C	1	0	0	0	0
9	J	1	0	0	0	0
9	P	1	0	0	0	0
10	D	2	0	0	2	0
10	J	2	0	0	2	0
10	P	2	0	0	1	0
All	All	94608	0	92786	8368	3

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 45.

All (8368) 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)
5:F:359:LYS:NZ	5:F:359:LYS:CE	1.67	1.54
3:D:484:MET:CE	3:D:484:MET:SD	2.03	1.46
3:P:139:LEU:CD2	3:P:185:ILE:HD11	1.49	1.43
3:J:367:GLY:O	3:J:447:ILE:CG2	1.68	1.38
1:G:25:LYS:NZ	1:G:202:VAL:HG11	1.34	1.37
3:J:115:TRP:CH2	3:J:1329:THR:HA	1.60	1.37
5:F:585:GLU:HG2	7:2:46:DT:C7	1.53	1.36
1:M:39:LEU:O	1:M:43:LEU:HG	1.26	1.35
3:D:1282:TYR:O	3:D:1285:VAL:HG12	1.14	1.32
1:N:35:PHE:O	1:N:39:LEU:HG	1.13	1.31
2:C:755:LYS:NZ	2:C:767:GLN:O	1.62	1.31
1:A:228:LEU:HA	1:A:231:PHE:CE2	1.67	1.28
2:I:1275:VAL:O	2:I:1279:GLU:HG3	1.34	1.28
3:D:395:LYS:O	3:D:398:LYS:HG3	1.30	1.28
1:M:42:ALA:HA	1:N:38:THR:CG2	1.64	1.28
5:F:137:TYR:CE1	5:F:353:LEU:HD11	1.69	1.28
1:B:213:PRO:O	1:B:217:ILE:HD13	1.30	1.27
3:D:112:ALA:HA	3:D:238:ILE:CD1	1.63	1.27
1:A:35:PHE:O	1:A:39:LEU:HG	1.34	1.27
2:C:448:LEU:HD11	2:C:553:THR:O	1.34	1.25
3:D:181:GLY:O	3:D:185:ILE:CD1	1.83	1.25
3:D:112:ALA:CA	3:D:238:ILE:HD11	1.65	1.25
3:D:1226:VAL:O	3:D:1229:VAL:HG13	1.33	1.25
3:J:367:GLY:O	3:J:447:ILE:HG23	1.18	1.25
2:I:237:LEU:CD1	2:I:289:VAL:HG22	1.65	1.23
3:D:281:ARG:HH22	5:F:441:ARG:NH2	1.35	1.23
3:J:501:VAL:CG1	3:J:502:PRO:HD2	1.67	1.23
5:F:458:GLU:HA	5:F:461:ASN:ND2	1.51	1.23
1:M:35:PHE:O	1:M:39:LEU:HG	1.35	1.22
3:P:337:ARG:HD3	3:P:341:ASN:ND2	1.55	1.22
1:A:47:LEU:HD13	1:A:183:ILE:CD1	1.70	1.21
1:M:224:LEU:HD12	1:M:224:LEU:O	1.40	1.21
3:D:281:ARG:NH2	5:F:441:ARG:HH22	1.36	1.21
1:B:68:TYR:CE1	1:B:79:LEU:HD21	1.74	1.20
1:N:88:LEU:HD11	1:N:128:HIS:CD2	1.76	1.20
2:C:206:ALA:O	2:C:209:ILE:CG2	1.88	1.20
3:J:1221:LEU:HD13	3:J:1229:VAL:HG11	1.22	1.20
1:N:88:LEU:HD11	1:N:128:HIS:NE2	1.55	1.20
2:I:533:LEU:HD23	2:I:538:LEU:O	1.35	1.19
5:R:110:LEU:H	5:R:110:LEU:HD12	1.04	1.19
1:A:180:VAL:HA	1:A:207:THR:HG22	1.20	1.19
1:M:180:VAL:HA	1:M:207:THR:CG2	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:CYS:SG	5:F:257:LYS:CE	2.30	1.18
5:F:520:GLY:HA2	5:F:523:ILE:HD12	1.21	1.18
3:J:915:ILE:O	3:J:918:ILE:HG22	1.41	1.18
3:P:608:CYS:SG	3:P:617:THR:HG22	1.84	1.18
3:J:1282:TYR:O	3:J:1285:VAL:HG12	1.42	1.18
3:D:1226:VAL:O	3:D:1229:VAL:CG1	1.91	1.17
5:F:520:GLY:HA2	5:F:523:ILE:CD1	1.73	1.17
2:I:206:ALA:O	2:I:209:ILE:HG22	1.45	1.17
3:J:749:LYS:HB3	3:J:750:PRO:CD	1.74	1.17
5:R:583:THR:HG21	5:R:586:ARG:HB3	1.21	1.17
3:P:508:LEU:O	3:P:508:LEU:HD12	1.01	1.16
5:F:132:CYS:SG	5:F:257:LYS:HE2	1.85	1.16
3:J:749:LYS:HD2	3:J:753:SER:CB	1.75	1.16
3:J:608:CYS:SG	3:J:617:THR:HG22	1.84	1.16
3:P:739:GLN:HG2	3:P:744:ARG:HG3	1.17	1.16
3:D:1327:GLU:O	3:D:1331:VAL:HG23	1.46	1.16
3:D:395:LYS:HA	3:D:398:LYS:HE3	1.27	1.16
3:P:508:LEU:CD1	3:P:508:LEU:O	1.94	1.16
4:E:39:VAL:HG13	4:E:40:PRO:CD	1.73	1.16
3:J:115:TRP:CZ2	3:J:1329:THR:HG22	1.79	1.16
3:P:373:ALA:HA	3:P:376:LEU:HD12	1.28	1.15
1:N:38:THR:HB	1:N:39:LEU:CD2	1.76	1.15
3:P:242:LEU:HD12	3:P:243:PRO:HD2	1.23	1.15
5:F:583:THR:HG23	5:F:586:ARG:HB3	1.21	1.15
3:J:849:LEU:CD2	3:J:857:LEU:HA	1.77	1.15
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.22	1.15
3:D:975:ILE:HD13	3:D:980:THR:HG21	1.18	1.15
1:B:100:LEU:HD13	1:B:115:ILE:CG2	1.77	1.15
3:D:464:ASP:OD1	8:3:15:G:O2'	1.64	1.15
1:M:43:LEU:O	1:M:47:LEU:HG	1.46	1.14
3:P:747:MET:CE	3:P:774:ILE:HG21	1.75	1.14
2:I:700:VAL:HG13	2:I:1117:LEU:HD22	1.17	1.14
2:C:1327:LEU:HD23	2:C:1337:ILE:HD11	1.20	1.14
1:G:91:ARG:HD2	1:G:124:VAL:CG2	1.77	1.14
5:R:583:THR:HG21	5:R:586:ARG:CB	1.78	1.14
3:P:575:GLY:HA2	3:P:578:ILE:HD12	1.15	1.14
3:P:508:LEU:C	3:P:508:LEU:HD12	1.50	1.14
1:A:38:THR:CG2	1:B:42:ALA:HA	1.76	1.13
3:D:470:VAL:HB	3:D:472:LEU:HD21	1.14	1.13
2:C:1271:GLY:O	2:C:1275:VAL:HG23	1.48	1.13
3:P:527:LEU:HD13	3:P:532:GLU:HG2	1.30	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:848:VAL:O	3:J:849:LEU:HD23	1.47	1.13
3:J:805:GLN:CB	3:J:1347:LEU:HD12	1.77	1.13
5:F:585:GLU:CG	7:2:46:DT:C7	2.25	1.13
1:G:41:ASN:O	1:G:45:ARG:HG3	1.49	1.13
1:M:35:PHE:O	1:M:39:LEU:CG	1.97	1.13
2:I:137:VAL:C	2:I:138:ILE:HD13	1.68	1.13
3:D:1282:TYR:O	3:D:1285:VAL:CG1	1.94	1.12
3:D:186:GLN:HA	3:D:189:LEU:HD12	1.28	1.12
3:J:849:LEU:HD21	3:J:857:LEU:HA	1.26	1.12
3:J:843:VAL:HG12	3:J:883:ARG:HB3	1.25	1.12
3:D:363:LEU:CD2	3:D:618:VAL:HG13	1.79	1.12
1:G:25:LYS:NZ	1:G:202:VAL:CG1	2.13	1.12
1:M:45:ARG:NH1	2:O:1215:GLY:O	1.82	1.12
3:D:185:ILE:H	3:D:185:ILE:CD1	1.61	1.12
5:F:583:THR:CG2	5:F:586:ARG:HB3	1.77	1.12
2:O:639:LYS:O	2:O:639:LYS:HG2	1.46	1.12
3:P:425:ARG:NH1	3:P:426:ALA:O	1.81	1.12
3:J:771:GLN:HA	3:J:774:ILE:HD12	1.25	1.12
5:F:551:LEU:HD22	5:F:597:LYS:HD2	1.23	1.12
2:O:897:PRO:HB3	5:R:563:PHE:O	1.49	1.12
5:L:451:ARG:NH1	5:L:453:PRO:HG3	1.62	1.12
3:P:88:CYS:SG	10:P:1501:ZN:ZN	1.38	1.12
1:A:224:LEU:HD23	1:B:228:LEU:HD11	1.32	1.11
2:C:1086:PRO:O	2:C:1094:VAL:HG23	1.50	1.11
5:F:457:ILE:O	5:F:461:ASN:OD1	1.65	1.11
3:P:337:ARG:HD3	3:P:341:ASN:HD21	0.99	1.11
1:G:79:LEU:HA	1:G:82:LEU:HD12	1.33	1.11
2:C:402:ARG:HG2	2:C:416:GLY:HA3	1.19	1.11
1:N:35:PHE:O	1:N:39:LEU:CG	1.97	1.11
2:I:201:ARG:HB2	2:I:369:MET:HE1	1.30	1.11
5:F:84:LEU:CD1	5:F:107:THR:HG21	1.78	1.11
2:O:1086:PRO:O	2:O:1094:VAL:HG23	1.49	1.11
3:J:482:ALA:O	3:J:488:ASN:ND2	1.83	1.11
3:J:909:ILE:HD11	3:J:913:GLU:HB3	1.31	1.11
1:N:39:LEU:HD23	1:N:39:LEU:N	1.60	1.11
3:P:1138:LEU:HB3	3:P:1139:PRO:HD3	1.14	1.11
3:J:294:ASN:HD21	5:L:101:TYR:HB2	1.02	1.11
5:F:450:ILE:HD13	5:F:450:ILE:H	1.02	1.11
1:B:100:LEU:HD13	1:B:115:ILE:HG21	1.15	1.10
2:O:297:VAL:HG13	2:O:317:LEU:HD21	1.16	1.10
5:R:235:ILE:CD1	5:R:249:ILE:HD11	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:449:THR:OG1	5:L:504:PRO:HG3	1.51	1.10
2:I:168:GLY:O	3:J:1065:ALA:HA	1.48	1.10
1:A:45:ARG:HD3	1:B:38:THR:OG1	1.51	1.10
3:D:1333:THR:O	3:D:1337:VAL:HG23	1.51	1.10
1:A:47:LEU:HD13	1:A:183:ILE:HD13	1.10	1.10
1:G:69:SER:O	1:G:78:ILE:HG13	1.52	1.10
1:M:38:THR:HG23	1:N:42:ALA:HA	1.25	1.10
3:J:353:SER:HB2	3:J:372:MET:HE1	1.11	1.09
2:I:237:LEU:HD12	2:I:289:VAL:HG22	1.19	1.09
2:C:206:ALA:O	2:C:209:ILE:HG22	1.45	1.09
3:D:806:ASP:OD1	3:D:1346:GLY:HA2	1.51	1.09
5:L:102:MET:HE2	6:4:42:DG:N3	1.66	1.09
2:O:1298:VAL:O	2:O:1302:THR:HG22	1.50	1.09
5:F:553:ALA:O	5:F:557:LYS:HG2	1.52	1.09
3:D:1253:ILE:HD12	3:D:1253:ILE:H	1.10	1.09
3:J:385:LEU:HD13	3:J:397:ALA:CB	1.83	1.09
1:M:180:VAL:CA	1:M:207:THR:HG22	1.79	1.09
1:M:47:LEU:CD1	1:M:183:ILE:CD1	2.31	1.09
2:O:402:ARG:HG2	2:O:416:GLY:HA3	1.33	1.09
3:D:337:ARG:HD3	3:D:341:ASN:HD22	1.15	1.09
2:O:524:ILE:HD11	2:O:712:SER:HB3	1.18	1.09
2:O:727:VAL:HG23	2:O:773:LEU:HD13	1.33	1.09
2:C:975:ILE:O	2:C:979:LEU:HG	1.52	1.09
2:O:298:ALA:HB3	2:O:334:GLU:HB3	1.09	1.09
2:I:1330:ILE:HA	2:I:1333:LEU:HD12	1.34	1.09
3:J:770:LEU:O	3:J:774:ILE:HG13	1.51	1.09
3:J:749:LYS:CD	3:J:753:SER:HB2	1.82	1.09
2:C:1282:GLY:O	3:D:1361:THR:OG1	1.70	1.09
3:P:747:MET:CE	3:P:774:ILE:CG2	2.30	1.09
5:L:457:ILE:O	5:L:461:ASN:OD1	1.68	1.09
3:J:242:LEU:HD12	3:J:243:PRO:HD2	1.25	1.09
5:F:216:LEU:O	5:F:220:LYS:HG2	1.53	1.09
5:L:584:ARG:O	5:L:587:ILE:HG12	1.51	1.08
3:D:835:LEU:HG	3:D:836:ARG:N	1.65	1.08
2:C:524:ILE:HD11	2:C:712:SER:HB3	1.29	1.08
5:F:137:TYR:HE1	5:F:353:LEU:CD1	1.66	1.08
3:D:1328:THR:O	3:D:1332:LEU:HG	1.51	1.08
2:I:559:CYS:SG	2:I:661:VAL:HG13	1.93	1.08
3:J:62:PHE:HB3	3:J:98:ARG:HG2	1.23	1.08
2:C:886:LYS:HD2	2:C:916:SER:HB2	1.35	1.08
1:G:224:LEU:HG	1:H:228:LEU:HD11	1.21	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:9:LEU:HD21	1:G:198:LEU:HD21	1.16	1.08
5:R:457:ILE:O	5:R:461:ASN:OD1	1.72	1.08
3:P:139:LEU:CD2	3:P:185:ILE:CD1	2.32	1.08
3:J:373:ALA:HA	3:J:376:LEU:HD12	1.28	1.08
5:R:583:THR:CG2	5:R:586:ARG:HB3	1.83	1.08
4:E:39:VAL:CG1	4:E:40:PRO:HD2	1.82	1.08
1:N:44:ARG:HH12	3:P:538:ARG:HD2	1.17	1.08
2:I:1337:ILE:HD12	3:J:22:ILE:HG12	1.33	1.08
5:L:587:ILE:HD13	5:L:587:ILE:N	1.56	1.08
2:C:566:GLY:O	2:C:569:ILE:HG22	1.52	1.08
2:O:1142:ARG:HH22	2:O:1169:VAL:HG21	1.16	1.08
3:P:801:VAL:HG22	3:P:920:ALA:HB1	1.31	1.07
3:P:1344:LEU:HA	3:P:1349:GLU:OE1	1.52	1.07
1:M:44:ARG:HA	1:M:47:LEU:HD12	1.26	1.07
2:I:319:LEU:HA	2:I:322:LEU:HD12	1.34	1.07
5:F:84:LEU:HD11	5:F:107:THR:HG21	1.36	1.07
3:D:839:VAL:HG13	3:D:864:LEU:HD13	1.30	1.07
2:C:1151:LEU:CD2	2:C:1198:LEU:HD13	1.83	1.07
2:O:211:ARG:HD3	2:O:357:ASN:O	1.53	1.07
2:I:524:ILE:HD11	2:I:712:SER:HB3	1.36	1.07
3:J:342:LEU:HD22	3:J:1352:ILE:HG23	1.32	1.07
3:P:1230:THR:O	3:P:1234:VAL:HG23	1.53	1.07
2:C:1258:PRO:HG2	3:D:346:ARG:CB	1.85	1.07
5:R:518:HIS:O	5:R:520:GLY:N	1.87	1.07
1:M:42:ALA:HA	1:N:38:THR:HG23	1.37	1.07
5:F:457:ILE:HA	5:F:460:ILE:HD12	1.30	1.07
1:G:59:VAL:HG22	1:G:144:ILE:HG23	1.31	1.07
1:N:38:THR:HB	1:N:39:LEU:HD21	1.35	1.07
3:D:470:VAL:HB	3:D:472:LEU:CD2	1.84	1.07
2:O:178:PRO:HA	2:O:397:LEU:HD23	1.33	1.07
7:5:25:DA:H1'	7:5:26:DT:H5''	1.30	1.07
3:D:185:ILE:N	3:D:185:ILE:HD12	1.62	1.06
5:F:551:LEU:CD2	5:F:597:LYS:HD2	1.85	1.06
3:D:363:LEU:HD23	3:D:618:VAL:HG13	1.34	1.06
1:N:47:LEU:O	1:N:51:MET:HG2	1.55	1.06
1:A:42:ALA:HA	1:B:38:THR:HG23	1.12	1.06
3:J:771:GLN:HA	3:J:774:ILE:CD1	1.84	1.06
3:P:421:VAL:HG23	3:P:439:PRO:HG3	1.33	1.06
1:A:228:LEU:HD21	1:B:224:LEU:CD2	1.84	1.06
3:D:181:GLY:O	3:D:185:ILE:HD11	1.56	1.06
1:M:225:ALA:HB2	1:N:228:LEU:CD1	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:886:VAL:HG11	3:J:1261:LEU:CD1	1.84	1.06
2:C:1258:PRO:HG2	3:D:346:ARG:HB3	1.37	1.06
2:O:161:LYS:HA	2:O:161:LYS:HE2	1.28	1.06
3:P:846:GLU:OE1	3:P:881:LYS:HD3	1.54	1.06
3:D:268:LEU:HD13	3:D:306:LEU:HA	1.38	1.06
3:J:385:LEU:HD13	3:J:397:ALA:HB1	1.07	1.06
3:D:1156:LEU:HD22	3:D:1209:VAL:HA	1.34	1.06
2:I:106:GLU:HG2	2:I:115:LYS:HB2	1.34	1.06
3:P:139:LEU:HD22	3:P:185:ILE:HD11	1.36	1.05
1:M:47:LEU:HD12	1:M:183:ILE:HD11	1.35	1.05
5:L:166:VAL:HG12	5:L:168:PRO:HD3	1.38	1.05
3:D:575:GLY:HA2	3:D:578:ILE:HD12	1.06	1.05
2:I:184:LEU:HD21	2:I:389:PHE:CE2	1.91	1.05
2:C:1199:LEU:CD2	2:C:1204:LEU:HD13	1.86	1.05
1:A:228:LEU:HD11	1:B:224:LEU:HD11	1.10	1.05
3:D:1230:THR:O	3:D:1234:VAL:HG23	1.56	1.05
2:O:1142:ARG:NH2	2:O:1169:VAL:HG21	1.71	1.05
2:O:823:VAL:HG12	2:O:1059:ARG:CZ	1.85	1.05
2:O:1129:ASN:OD1	2:O:1133:LYS:HE3	1.56	1.05
3:D:783:LEU:O	3:D:786:THR:HG22	1.57	1.05
2:I:828:PHE:O	2:I:1234:LYS:NZ	1.87	1.05
2:O:333:ILE:HG22	2:O:334:GLU:H	1.18	1.05
3:D:130:MET:HG2	3:D:135:ILE:HG12	1.38	1.05
3:J:744:ARG:NH2	3:J:940:ALA:HB2	1.72	1.05
3:D:796:LEU:HG	3:D:797:THR:N	1.69	1.04
1:M:224:LEU:HD12	1:M:224:LEU:C	1.78	1.04
4:E:39:VAL:HG13	4:E:40:PRO:HD2	1.06	1.04
3:J:139:LEU:CD2	3:J:185:ILE:HD11	1.85	1.04
1:B:100:LEU:CD1	1:B:115:ILE:HG21	1.86	1.04
3:P:575:GLY:HA2	3:P:578:ILE:CD1	1.86	1.04
2:O:18:ARG:NH1	2:O:623:LEU:HD12	1.69	1.04
1:G:232:VAL:HG13	1:H:218:ARG:HG2	1.33	1.04
2:I:169:LYS:HD2	3:J:1067:ARG:O	1.57	1.04
2:C:148:GLN:NE2	2:C:533:LEU:O	1.90	1.04
3:P:555:TYR:HB3	3:P:563:LEU:HD22	1.32	1.04
5:R:235:ILE:HD11	5:R:249:ILE:CD1	1.87	1.04
3:J:65:VAL:HG13	3:J:98:ARG:HH12	1.20	1.04
2:O:1284:ALA:HB1	3:P:1356:LEU:HD22	1.32	1.04
3:J:826:ILE:O	3:J:826:ILE:CG2	2.01	1.04
2:O:331:LYS:O	2:O:332:ARG:HG3	1.57	1.04
3:J:367:GLY:O	3:J:447:ILE:HG22	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1270:PHE:HB2	3:D:347:VAL:HG21	1.36	1.04
2:C:1273:MET:SD	3:D:428:THR:HB	1.98	1.04
2:C:559:CYS:SG	2:C:661:VAL:HG12	1.96	1.04
1:M:154:PRO:HG2	1:M:157:THR:OG1	1.56	1.04
1:M:47:LEU:HD13	1:M:183:ILE:HD12	1.40	1.03
3:J:843:VAL:HG11	3:J:883:ARG:HD3	1.40	1.03
3:P:797:THR:HG23	3:P:924:GLY:CA	1.88	1.03
3:D:797:THR:HA	3:D:800:LEU:HD12	1.07	1.03
1:N:191:ARG:HG3	1:N:196:THR:HG22	1.38	1.03
2:I:944:ARG:O	2:I:947:GLU:HG2	1.56	1.03
2:I:1275:VAL:O	2:I:1279:GLU:CG	2.06	1.03
3:D:349:TYR:O	3:D:470:VAL:HG23	1.59	1.03
3:D:1145:PHE:HE1	3:D:1256:ILE:HD12	1.23	1.03
5:L:587:ILE:HD13	5:L:587:ILE:H	1.23	1.03
3:P:473:THR:HB	3:P:475:GLU:OE1	1.56	1.03
3:P:421:VAL:HG23	3:P:439:PRO:CG	1.87	1.03
2:O:1128:ILE:O	2:O:1132:LEU:HG	1.56	1.03
2:O:1223:ARG:HG2	3:P:635:SER:O	1.57	1.03
1:M:100:LEU:HD22	1:M:115:ILE:CG2	1.87	1.03
2:I:704:MET:O	2:I:708:VAL:HG23	1.58	1.03
3:J:501:VAL:HG13	3:J:502:PRO:CD	1.88	1.03
3:D:130:MET:CG	3:D:135:ILE:HG12	1.88	1.03
2:C:436:ARG:NH1	2:C:436:ARG:O	1.91	1.03
2:C:831:ILE:HD12	2:C:831:ILE:H	1.20	1.03
3:P:747:MET:HE1	3:P:774:ILE:CG2	1.89	1.03
2:C:1151:LEU:HD22	2:C:1198:LEU:HD13	1.39	1.03
2:I:690:VAL:HG23	2:I:1234:LYS:O	1.58	1.03
3:J:807:LEU:HD21	3:J:1259:GLN:HG2	1.36	1.03
1:M:40:GLY:HA2	1:M:43:LEU:HD12	1.40	1.02
3:D:1155:ILE:C	3:D:1156:LEU:HD23	1.80	1.02
1:H:82:LEU:HD22	1:H:173:VAL:HG21	1.36	1.02
3:D:1233:ILE:O	3:D:1237:VAL:HG23	1.59	1.02
3:P:614:LEU:HD23	4:Q:7:GLN:HB2	1.40	1.02
3:J:1145:PHE:HB3	3:J:1309:ILE:HD11	1.37	1.02
3:D:1287:ILE:HG22	3:D:1288:ALA:N	1.68	1.02
5:L:386:LEU:HD13	6:4:41:DT:O4'	1.59	1.02
4:E:46:THR:HA	4:E:49:ILE:HD12	1.04	1.02
3:J:749:LYS:HD2	3:J:753:SER:HB2	1.07	1.02
1:H:100:LEU:HD13	1:H:115:ILE:HG21	1.35	1.02
1:M:214:GLU:HA	1:M:217:ILE:HD12	1.42	1.02
2:O:448:LEU:HD23	2:O:448:LEU:O	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:LEU:HD21	1:B:224:LEU:HD21	1.04	1.02
1:B:213:PRO:O	1:B:217:ILE:CD1	2.07	1.02
1:A:47:LEU:CD1	1:A:183:ILE:CD1	2.36	1.02
2:C:1323:PHE:HE1	2:C:1327:LEU:HD21	1.24	1.02
2:O:1223:ARG:CG	3:P:635:SER:O	2.06	1.02
2:I:542:ARG:NH2	6:4:49:DG:N7	2.06	1.02
1:H:190:ALA:H	1:H:199:ASP:HA	1.24	1.02
3:J:353:SER:HB2	3:J:372:MET:CE	1.88	1.01
3:D:185:ILE:H	3:D:185:ILE:HD12	0.87	1.01
2:O:297:VAL:CG1	2:O:317:LEU:HD21	1.90	1.01
2:C:1199:LEU:HD22	2:C:1204:LEU:HD13	1.40	1.01
3:D:620:PHE:O	3:D:624:ILE:HG13	1.60	1.01
3:P:747:MET:HE1	3:P:774:ILE:HG21	1.05	1.01
3:J:823:THR:HG22	3:J:879:ALA:HB2	1.40	1.01
2:O:1305:TYR:CE2	3:P:379:PRO:HB3	1.95	1.01
1:M:16:ILE:HG12	1:M:26:VAL:HG13	1.39	1.01
3:D:395:LYS:O	3:D:398:LYS:CG	2.07	1.01
3:J:182:ALA:HA	3:J:185:ILE:HD12	1.41	1.01
3:D:130:MET:SD	3:D:135:ILE:HG12	2.00	1.01
2:O:1273:MET:O	3:P:428:THR:HG21	1.61	1.01
2:O:1101:LEU:CD2	3:P:725:MET:HG2	1.90	1.01
3:D:975:ILE:CD1	3:D:980:THR:HG21	1.90	1.01
3:J:805:GLN:HB2	3:J:1347:LEU:HD12	1.40	1.01
5:L:455:HIS:H	5:L:455:HIS:CD2	1.56	1.01
2:O:161:LYS:HA	2:O:161:LYS:CE	1.90	1.01
2:C:831:ILE:HD12	2:C:831:ILE:N	1.76	1.01
1:A:224:LEU:CD2	1:B:228:LEU:HD11	1.91	1.00
3:D:378:LYS:HA	3:D:381:ILE:HD12	1.40	1.00
3:P:337:ARG:CD	3:P:341:ASN:ND2	2.23	1.00
1:B:68:TYR:HE1	1:B:79:LEU:HD21	1.22	1.00
2:I:577:VAL:HG23	2:I:661:VAL:O	1.60	1.00
3:J:681:LYS:O	3:J:685:ILE:HG13	1.60	1.00
3:D:205:LEU:HD21	3:D:214:ARG:HG3	1.42	1.00
2:I:169:LYS:CD	3:J:1067:ARG:O	2.09	1.00
3:D:797:THR:HA	3:D:800:LEU:CD1	1.91	1.00
1:N:38:THR:C	1:N:39:LEU:HD23	1.82	1.00
2:O:292:ILE:HG21	2:O:322:LEU:HD11	1.41	1.00
5:F:402:LEU:HA	5:F:405:ILE:HD12	1.40	1.00
3:J:24:LEU:HD12	3:J:232:ASN:HB3	1.39	1.00
2:C:253:PHE:CD1	2:C:288:PRO:HD2	1.97	1.00
1:M:47:LEU:HD12	1:M:183:ILE:CD1	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:47:LEU:CD1	1:M:183:ILE:HD11	1.89	1.00
3:J:826:ILE:HG22	3:J:826:ILE:O	1.60	1.00
3:J:1323:ALA:HB2	3:J:1332:LEU:HD21	1.43	1.00
5:F:491:GLU:OE2	5:F:495:ARG:NH2	1.94	1.00
3:D:1263:LYS:HG2	3:D:1281:GLU:HA	1.43	1.00
3:D:1253:ILE:HD12	3:D:1253:ILE:N	1.75	0.99
3:P:720:ASN:O	3:P:724:MET:HG3	1.61	0.99
1:N:224:LEU:O	1:N:224:LEU:HD12	1.62	0.99
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.45	0.99
1:G:16:ILE:HG21	1:G:214:GLU:CD	1.83	0.99
1:A:192:VAL:HB	1:A:195:ARG:O	1.61	0.99
3:D:918:ILE:HG22	3:D:919:ALA:N	1.75	0.99
1:G:185:TYR:HB2	1:G:201:LEU:HD11	1.43	0.99
3:J:502:PRO:HG2	3:J:601:ILE:HG21	1.41	0.99
3:J:869:CYS:HA	3:J:872:LEU:HD12	1.44	0.99
2:C:96:LEU:CB	2:C:127:ILE:HD11	1.93	0.99
3:J:1328:THR:O	3:J:1332:LEU:HG	1.63	0.99
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.36	0.99
3:J:749:LYS:HB3	3:J:750:PRO:HD2	1.38	0.99
3:J:294:ASN:ND2	5:L:101:TYR:HB2	1.76	0.99
1:G:25:LYS:HZ1	1:G:202:VAL:CG1	1.74	0.99
5:F:137:TYR:HE1	5:F:353:LEU:HD11	0.82	0.99
2:C:1257:GLN:HG3	2:C:1296:ASP:OD1	1.61	0.99
2:O:298:ALA:CB	2:O:334:GLU:HB3	1.93	0.99
3:D:1284:ARG:O	3:D:1287:ILE:HB	1.63	0.99
3:D:318:GLY:HA2	3:D:324:LEU:HD21	1.45	0.99
4:K:60:ASN:HB3	4:K:63:ILE:HD12	1.42	0.99
3:J:930:LEU:HB2	3:J:1134:ILE:HD11	1.45	0.99
2:C:700:VAL:HG13	2:C:1117:LEU:HD23	1.43	0.98
3:D:351:GLY:O	3:D:468:VAL:HG23	1.60	0.98
2:C:1327:LEU:HA	2:C:1337:ILE:HD13	1.45	0.98
1:N:44:ARG:HD3	1:N:185:TYR:HE1	1.24	0.98
3:D:182:ALA:CA	3:D:185:ILE:HD13	1.93	0.98
2:C:1289:GLU:OE1	3:D:472:LEU:HG	1.63	0.98
4:E:46:THR:CA	4:E:49:ILE:HD12	1.91	0.98
2:I:178:PRO:HG3	2:I:395:TYR:CZ	1.98	0.98
3:D:1151:LYS:H	3:D:1151:LYS:HD2	1.24	0.98
5:R:135:ALA:HB2	5:R:256:PHE:HB3	1.41	0.98
3:D:1075:ARG:HD3	3:D:1076:PRO:HD2	1.45	0.98
3:J:1101:LEU:HD22	3:J:1122:ALA:CB	1.93	0.98
2:I:496:LYS:HD2	5:L:468:ARG:HH21	1.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:681:MET:O	2:C:685:MET:HG2	1.62	0.98
1:G:228:LEU:HD11	1:H:224:LEU:HG	1.45	0.98
1:A:42:ALA:HA	1:B:38:THR:CG2	1.92	0.98
1:M:224:LEU:HG	1:M:225:ALA:N	1.76	0.98
5:R:574:GLU:O	5:R:578:LYS:HG3	1.63	0.98
2:I:187:GLU:O	2:I:194:LEU:HD12	1.63	0.98
3:J:1333:THR:O	3:J:1337:VAL:HG23	1.63	0.98
3:D:349:TYR:HB3	3:D:470:VAL:HG21	1.46	0.98
3:J:185:ILE:HG22	3:J:189:LEU:HD11	1.45	0.98
3:D:337:ARG:HD3	3:D:341:ASN:ND2	1.76	0.98
1:N:44:ARG:HA	1:N:47:LEU:HD12	1.42	0.98
1:M:47:LEU:HD13	1:M:183:ILE:CD1	1.94	0.98
3:D:1253:ILE:CD1	3:D:1253:ILE:H	1.74	0.98
3:D:108:ALA:HB3	3:D:279:LEU:HD21	1.46	0.98
2:C:237:LEU:HG	2:C:289:VAL:HG22	1.44	0.98
2:O:674:ASP:O	3:P:772:TYR:OH	1.79	0.98
3:J:46:TYR:O	3:J:49:PHE:CZ	2.17	0.97
3:P:1146:GLU:HG2	3:P:1309:ILE:HD12	1.41	0.97
3:D:1224:ARG:HD2	3:D:1228:ALA:HB1	1.42	0.97
3:J:473:THR:HB	3:J:475:GLU:OE1	1.63	0.97
2:I:1305:TYR:OH	5:L:532:LEU:HG	1.65	0.97
3:D:432:LEU:CD1	3:D:499:ILE:HD13	1.94	0.97
3:J:513:MET:CE	3:J:579:LEU:HD21	1.93	0.97
5:F:585:GLU:CG	7:2:46:DT:H73	1.88	0.97
3:D:111:THR:O	3:D:238:ILE:HD12	1.64	0.97
1:G:49:SER:CB	1:H:33:ARG:HH12	1.77	0.97
3:J:209:ASN:HD22	3:J:214:ARG:HD3	1.24	0.97
1:G:47:LEU:CD1	1:G:183:ILE:CD1	2.43	0.97
3:D:363:LEU:HD23	3:D:618:VAL:CG1	1.94	0.97
3:P:1230:THR:HA	3:P:1233:ILE:HD12	1.43	0.97
3:J:111:THR:HG23	3:J:300:GLN:HE22	1.24	0.97
5:F:585:GLU:HG2	7:2:46:DT:H73	0.99	0.97
2:O:425:ILE:O	2:O:428:VAL:HB	1.65	0.97
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.47	0.97
3:D:1155:ILE:O	3:D:1156:LEU:HD23	1.63	0.97
2:I:1273:MET:SD	3:J:428:THR:HB	2.04	0.97
2:C:149:LEU:HD11	2:C:451:ARG:HB3	1.47	0.97
2:O:213:LEU:O	2:O:214:ASN:CB	2.11	0.97
2:O:1294:LYS:HE2	3:P:472:LEU:HD11	1.46	0.97
4:E:49:ILE:HG22	4:E:50:ALA:N	1.78	0.97
5:F:585:GLU:CG	7:2:46:DT:H71	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1275:VAL:HG12	2:I:1279:GLU:OE2	1.65	0.96
3:J:905:ARG:HD2	4:K:16:ARG:HH11	1.29	0.96
2:C:1066:MET:SD	2:C:1076:ILE:HD11	2.05	0.96
3:P:428:THR:O	3:P:428:THR:HG22	1.62	0.96
3:P:1052:GLU:HG2	3:P:1053:LEU:H	1.30	0.96
1:A:228:LEU:CD1	1:B:224:LEU:HD11	1.94	0.96
5:L:401:PHE:O	5:L:405:ILE:HG13	1.64	0.96
2:C:257:ALA:HB2	2:C:277:LEU:HD11	1.47	0.96
3:P:1221:LEU:HG	3:P:1222:ARG:N	1.76	0.96
1:B:68:TYR:CD1	1:B:79:LEU:HD21	2.00	0.96
2:I:167:SER:HB3	3:J:1064:SER:HB3	1.47	0.96
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.65	0.96
2:O:577:VAL:HG23	2:O:661:VAL:O	1.64	0.96
3:D:1151:LYS:N	3:D:1151:LYS:HD2	1.80	0.96
1:M:45:ARG:HH12	2:O:1216:ARG:HA	1.27	0.96
2:I:700:VAL:HG13	2:I:1117:LEU:CD2	1.95	0.96
2:I:190:PRO:HB2	3:J:1069:ALA:HB2	1.44	0.96
5:L:412:LEU:HD12	5:L:415:ALA:HB3	1.46	0.96
2:C:96:LEU:HB2	2:C:127:ILE:HD11	1.46	0.96
2:C:1253:LEU:HB2	5:F:523:ILE:HG21	1.48	0.96
3:J:111:THR:HG23	3:J:300:GLN:NE2	1.80	0.96
3:D:601:ILE:O	3:D:605:LEU:HG	1.66	0.96
3:D:514:THR:HG21	3:D:596:LEU:HG	1.44	0.96
3:P:138:VAL:HG12	3:P:139:LEU:HD23	1.47	0.96
3:D:1229:VAL:O	3:D:1233:ILE:HG13	1.66	0.96
1:M:224:LEU:CD2	1:N:228:LEU:HG	1.94	0.96
3:P:797:THR:HG23	3:P:924:GLY:HA3	1.44	0.96
2:O:448:LEU:CD1	2:O:557:ARG:HD2	1.94	0.96
3:D:1224:ARG:HD2	3:D:1228:ALA:CB	1.96	0.96
5:R:460:ILE:HA	5:R:463:LEU:HD12	1.46	0.96
2:C:149:LEU:HD21	2:C:451:ARG:HE	1.31	0.96
2:O:445:ILE:HB	2:O:446:ASP:OD1	1.64	0.95
3:P:1045:THR:HG22	3:P:1067:ARG:HD3	1.45	0.95
3:J:373:ALA:HA	3:J:376:LEU:CD1	1.96	0.95
2:O:161:LYS:HE2	2:O:161:LYS:CA	1.88	0.95
3:P:512:TYR:CE1	3:P:545:HIS:HE1	1.83	0.95
4:E:46:THR:HA	4:E:49:ILE:CD1	1.93	0.95
3:D:530:PRO:HG2	3:D:531:LYS:HG3	1.48	0.95
3:P:737:ILE:HG22	3:P:738:ARG:N	1.81	0.95
1:H:61:ILE:HD12	1:H:64:VAL:HG11	1.48	0.95
3:J:1321:SER:O	3:J:1324:SER:OG	1.84	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:459:THR:O	5:L:463:LEU:HG	1.66	0.95
1:M:8:PHE:CZ	1:N:223:ILE:HG23	2.01	0.95
2:I:432:LEU:HG	2:I:433:ILE:N	1.81	0.95
3:J:797:THR:HG23	3:J:924:GLY:HA3	1.48	0.95
2:C:715:THR:HG22	2:C:786:GLY:H	1.31	0.95
5:L:451:ARG:HH11	5:L:453:PRO:HG3	1.26	0.95
2:O:201:ARG:HB2	2:O:369:MET:CE	1.96	0.95
2:I:675:ASP:HB2	2:I:1107:MET:HE2	1.49	0.95
2:C:1268:GLN:NE2	3:D:351:GLY:O	1.99	0.95
3:D:587:LEU:HD21	3:D:612:LEU:HD11	1.49	0.95
3:P:1138:LEU:HB3	3:P:1139:PRO:CD	1.96	0.95
2:I:496:LYS:HB3	2:I:497:PRO:HD3	1.47	0.95
1:N:13:LEU:HD12	1:N:28:LEU:CD2	1.97	0.95
3:P:139:LEU:HD21	3:P:185:ILE:HD11	1.47	0.94
3:P:363:LEU:CD2	3:P:487:THR:HG22	1.97	0.94
1:G:91:ARG:HD2	1:G:124:VAL:HG23	1.45	0.94
3:D:836:ARG:HB2	3:D:873:GLU:OE2	1.66	0.94
3:D:909:ILE:HD13	3:D:910:ASN:O	1.67	0.94
3:P:644:MET:CE	3:P:764:ARG:HB2	1.97	0.94
3:J:1159:ILE:HA	3:J:1206:ARG:HG2	1.49	0.94
1:M:224:LEU:HD23	1:N:228:LEU:HG	1.47	0.94
3:D:1156:LEU:CD2	3:D:1209:VAL:HA	1.97	0.94
3:J:385:LEU:HD22	3:J:391:ALA:HB2	1.47	0.94
2:O:206:ALA:O	2:O:209:ILE:HG22	1.68	0.94
3:D:886:VAL:HG13	3:D:1258:ARG:HG3	1.49	0.94
3:D:842:ARG:NH1	3:D:1254:GLU:OE2	2.01	0.94
5:F:92:GLY:O	5:F:93:ARG:HG3	1.68	0.94
2:O:26:TYR:HA	2:O:711:ASP:OD2	1.67	0.94
3:J:501:VAL:HG13	3:J:502:PRO:HD2	0.96	0.94
1:B:61:ILE:HB	1:B:64:VAL:HB	1.48	0.94
3:D:282:LEU:HD21	5:F:410:ILE:HG12	1.48	0.94
2:C:75:LEU:HD21	2:C:94:ALA:HB3	1.49	0.94
1:M:29:GLU:HG3	1:M:30:PRO:HD3	1.48	0.94
2:C:1283:ALA:HB1	3:D:479:GLU:OE2	1.67	0.94
3:D:501:VAL:HG13	3:D:502:PRO:HD2	1.47	0.94
3:P:620:PHE:O	3:P:624:ILE:HG13	1.65	0.94
3:J:332:LYS:NZ	3:J:1329:THR:OG1	2.01	0.94
1:G:45:ARG:HH12	2:I:1216:ARG:HA	1.29	0.94
2:C:255:ILE:HD13	2:C:285:ILE:HD13	1.47	0.94
3:J:385:LEU:CD1	3:J:397:ALA:HB1	1.97	0.94
3:D:797:THR:CA	3:D:800:LEU:HD12	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:488:MET:HB3	2:I:489:PRO:HD2	1.49	0.94
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.49	0.93
1:M:162:GLU:OE1	1:M:166:ARG:NH1	2.01	0.93
3:J:185:ILE:O	3:J:189:LEU:HD12	1.67	0.93
3:J:783:LEU:O	3:J:786:THR:HG22	1.68	0.93
3:D:105:ILE:HD12	3:D:242:LEU:HD23	1.48	0.93
2:O:706:ARG:O	2:O:710:VAL:HG23	1.68	0.93
3:P:587:LEU:HD21	3:P:612:LEU:HD21	1.50	0.93
3:P:688:ALA:O	3:P:692:ARG:HD2	1.66	0.93
5:F:585:GLU:OE2	5:F:588:ARG:HG2	1.67	0.93
5:F:450:ILE:CD1	5:F:450:ILE:H	1.78	0.93
3:D:918:ILE:CG2	3:D:919:ALA:N	2.28	0.93
2:O:802:VAL:HG22	2:O:1096:ILE:HB	1.50	0.93
1:N:42:ALA:O	1:N:46:ILE:HD12	1.69	0.93
3:P:1310:THR:O	3:P:1314:LEU:HG	1.68	0.93
1:A:224:LEU:O	1:A:224:LEU:HD12	1.67	0.93
1:A:228:LEU:CD2	1:B:224:LEU:HD21	1.95	0.93
2:C:1073:LYS:NZ	8:3:15:G:O5'	2.02	0.93
3:P:622:ASP:O	3:P:626:TYR:CD2	2.21	0.93
3:J:266:ASN:O	3:J:270:ARG:HG3	1.68	0.93
2:O:448:LEU:HD13	2:O:608:ALA:HB2	1.50	0.93
3:J:421:VAL:HG12	3:J:422:LEU:H	1.32	0.93
2:C:870:ILE:HG13	2:C:944:ARG:HG2	1.50	0.93
3:P:497:GLU:HB3	3:P:498:PRO:HD2	1.46	0.93
2:C:838:CYS:SG	2:C:886:LYS:HE3	2.09	0.93
2:I:1294:LYS:HD3	3:J:347:VAL:HG12	1.51	0.93
2:O:217:THR:HG21	2:O:313:ALA:HB1	1.50	0.93
2:I:237:LEU:HD11	2:I:289:VAL:HG22	1.51	0.93
3:P:1138:LEU:CB	3:P:1139:PRO:HD3	1.98	0.93
2:O:890:LYS:HA	2:O:914:LYS:HE3	1.50	0.92
3:D:126:LEU:HD13	3:D:223:LEU:HD11	1.49	0.92
3:J:601:ILE:O	3:J:605:LEU:HG	1.68	0.92
3:D:575:GLY:CA	3:D:578:ILE:HD12	1.98	0.92
6:1:58:DG:H2''	6:1:59:DG:OP2	1.68	0.92
2:I:883:LEU:HD21	2:I:920:VAL:CG2	1.99	0.92
3:J:182:ALA:HA	3:J:185:ILE:CD1	1.98	0.92
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.51	0.92
5:R:235:ILE:HD11	5:R:249:ILE:HD11	0.94	0.92
1:M:154:PRO:CG	1:M:157:THR:OG1	2.17	0.92
3:J:1101:LEU:HD22	3:J:1122:ALA:HB3	1.49	0.92
1:G:47:LEU:HD12	1:G:183:ILE:HD13	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1238:GLN:O	3:P:1242:ARG:HG3	1.70	0.92
1:N:102:LEU:HD11	1:N:114:ASP:HB3	1.51	0.92
2:O:371:ARG:C	5:R:99:ARG:HH22	1.73	0.92
3:D:425:ARG:NH1	8:3:16:U:O2'	2.03	0.92
2:C:1288:GLN:HB3	2:C:1315:MET:HE3	1.51	0.92
3:J:814:CYS:SG	10:J:1502:ZN:ZN	1.56	0.92
1:M:69:SER:O	1:M:78:ILE:HG13	1.70	0.92
5:F:458:GLU:HA	5:F:461:ASN:HD21	1.24	0.92
2:C:104:ILE:O	2:C:115:LYS:HB3	1.69	0.92
5:L:548:LEU:HD23	5:L:551:LEU:CD1	1.98	0.92
3:J:909:ILE:HG12	3:J:910:ASN:N	1.85	0.92
2:C:75:LEU:HD21	2:C:94:ALA:CB	1.99	0.92
3:J:381:ILE:HD11	3:J:412:LEU:HA	1.51	0.92
2:I:835:GLU:O	2:I:836:LEU:HD23	1.70	0.92
2:O:83:GLN:O	2:O:87:ILE:HG13	1.69	0.92
2:O:698:PRO:HA	2:O:1231:TYR:CE1	2.04	0.92
3:D:1145:PHE:CE1	3:D:1256:ILE:HD12	2.05	0.92
2:I:1333:LEU:HD23	3:J:327:LEU:HD13	1.52	0.92
1:A:225:ALA:HB2	1:B:228:LEU:HD13	1.49	0.92
2:C:431:LYS:O	2:C:435:ILE:HG13	1.69	0.91
5:F:450:ILE:N	5:F:450:ILE:HD13	1.85	0.91
3:P:422:LEU:O	3:P:468:VAL:HG13	1.69	0.91
5:R:399:LEU:O	5:R:400:GLN:HB2	1.69	0.91
3:D:139:LEU:O	3:D:141:PHE:CD2	2.24	0.91
5:R:110:LEU:HD12	5:R:110:LEU:N	1.83	0.91
1:M:38:THR:HG23	1:N:42:ALA:CA	2.00	0.91
2:C:1077:SER:HA	3:D:356:THR:CG2	2.00	0.91
2:C:295:LYS:O	2:C:317:LEU:HG	1.69	0.91
1:M:48:LEU:HD23	1:M:180:VAL:HB	1.49	0.91
3:P:739:GLN:CG	3:P:744:ARG:HG3	2.00	0.91
2:C:1107:MET:HE2	3:D:740:LEU:HD21	1.49	0.91
2:O:870:ILE:HG21	2:O:944:ARG:HE	1.35	0.91
1:N:38:THR:HB	1:N:39:LEU:HD23	1.52	0.91
2:C:1284:ALA:O	2:C:1287:LEU:HD23	1.70	0.91
3:D:608:CYS:SG	3:D:617:THR:HG22	2.10	0.91
3:J:1258:ARG:HA	3:J:1261:LEU:HD12	1.53	0.91
3:P:797:THR:CG2	3:P:924:GLY:HA3	2.00	0.91
2:O:889:PRO:O	2:O:914:LYS:NZ	2.04	0.91
2:I:901:LEU:O	2:I:905:ILE:HG13	1.69	0.91
2:I:498:ILE:O	2:I:502:VAL:HG23	1.70	0.91
3:P:1321:SER:O	3:P:1324:SER:OG	1.89	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1221:LEU:CD1	3:J:1229:VAL:HG11	2.01	0.91
5:F:551:LEU:HD22	5:F:597:LYS:CD	2.00	0.91
4:E:6:VAL:O	4:E:10:VAL:HG23	1.69	0.91
3:P:1353:VAL:HG21	3:P:1355:ARG:HD2	1.51	0.91
3:J:825:VAL:HG22	3:J:838:ARG:NH1	1.86	0.91
5:F:166:VAL:HG12	5:F:167:ASP:H	1.33	0.91
5:L:295:CYS:O	5:L:296:LYS:HB2	1.68	0.91
3:J:899:TYR:CE1	3:J:915:ILE:HG21	2.05	0.91
2:C:1086:PRO:O	2:C:1094:VAL:CG2	2.18	0.91
3:P:503:SER:O	3:P:506:VAL:HG23	1.70	0.91
3:P:269:TYR:O	3:P:273:ILE:HG13	1.71	0.91
3:J:820:ILE:HG12	3:J:1227:HIS:HB3	1.51	0.91
1:B:65:LEU:O	1:B:169:GLY:HA2	1.69	0.91
2:O:298:ALA:HB3	2:O:334:GLU:CB	1.99	0.91
2:O:1120:ALA:HB1	2:O:1198:LEU:HG	1.50	0.91
1:M:43:LEU:HD13	1:M:203:ILE:HD11	1.53	0.90
3:D:182:ALA:C	3:D:185:ILE:HD13	1.92	0.90
3:J:501:VAL:CG1	3:J:502:PRO:CD	2.47	0.90
2:I:184:LEU:HD21	2:I:389:PHE:CZ	2.05	0.90
1:G:25:LYS:HZ2	1:G:202:VAL:CG1	1.81	0.90
5:R:457:ILE:HA	5:R:460:ILE:HD12	1.53	0.90
5:F:583:THR:HG21	5:F:587:ILE:CD1	2.00	0.90
3:D:1326:GLN:OE1	7:2:11:DA:H4'	1.70	0.90
3:D:185:ILE:HG22	3:D:189:LEU:HD11	1.51	0.90
3:J:905:ARG:HD2	4:K:16:ARG:NH1	1.86	0.90
3:J:1344:LEU:HD23	3:J:1349:GLU:HB3	1.53	0.90
3:P:385:LEU:HD21	3:P:411:ILE:HD13	1.54	0.90
1:G:49:SER:HB2	1:H:33:ARG:HH12	1.33	0.90
2:O:550:VAL:HG22	3:P:780:ARG:HD3	1.53	0.90
3:J:1266:ILE:HG21	3:J:1274:PHE:HB3	1.54	0.90
3:D:369:PRO:HG2	3:D:372:MET:HE1	1.53	0.90
2:I:1151:LEU:HD22	2:I:1198:LEU:HD12	1.53	0.90
1:M:40:GLY:HA2	1:M:43:LEU:CD1	2.02	0.90
5:F:520:GLY:CA	5:F:523:ILE:HD12	2.02	0.90
3:P:644:MET:HE2	3:P:764:ARG:HB2	1.50	0.90
1:A:155:ALA:HA	1:A:172:LEU:HD21	1.52	0.90
3:J:886:VAL:CG1	3:J:1261:LEU:CD1	2.48	0.90
2:C:1288:GLN:O	2:C:1292:THR:HG22	1.71	0.90
1:N:44:ARG:HD3	1:N:185:TYR:CE1	2.07	0.90
5:L:429:THR:HG1	6:4:39:DA:H8	0.94	0.90
2:O:371:ARG:CA	5:R:99:ARG:NH2	2.35	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1287:ILE:HG22	3:J:1288:ALA:N	1.83	0.90
3:D:116:PHE:O	3:D:124:ILE:HD11	1.72	0.90
1:G:25:LYS:HZ1	1:G:202:VAL:HG11	0.89	0.90
5:F:585:GLU:HG2	7:2:46:DT:H71	1.52	0.90
3:D:1145:PHE:HE1	3:D:1256:ILE:CD1	1.83	0.90
1:G:16:ILE:HG21	1:G:214:GLU:CG	2.02	0.90
2:C:551:HIS:HD1	2:C:553:THR:HG1	1.13	0.90
5:R:128:ASN:HD22	5:R:257:LYS:HE2	1.36	0.90
3:P:543:SER:O	3:P:574:VAL:HG21	1.72	0.89
4:E:2:ALA:N	4:E:5:THR:O	2.06	0.89
2:O:1112:ILE:HD13	3:P:639:VAL:O	1.72	0.89
2:O:1340:GLU:OE1	3:P:1341:ARG:NH2	2.04	0.89
2:O:949:GLU:O	2:O:953:LEU:HG	1.73	0.89
2:O:353:VAL:O	2:O:355:PRO:HD3	1.72	0.89
1:B:88:LEU:HD11	1:B:128:HIS:CG	2.08	0.89
5:R:385:ARG:O	5:R:388:ILE:HG22	1.72	0.89
5:F:594:ALA:O	5:F:598:LEU:HG	1.72	0.89
2:O:297:VAL:HG13	2:O:317:LEU:CD2	2.00	0.89
3:D:839:VAL:HG13	3:D:864:LEU:CD1	2.01	0.89
3:D:575:GLY:HA2	3:D:578:ILE:CD1	1.99	0.89
3:P:337:ARG:CD	3:P:341:ASN:HD21	1.83	0.89
1:B:68:TYR:HE1	1:B:79:LEU:CD2	1.85	0.89
3:J:1226:VAL:O	3:J:1230:THR:OG1	1.89	0.89
2:C:146:VAL:HG12	2:C:529:ARG:O	1.73	0.89
3:J:139:LEU:CD2	3:J:185:ILE:CD1	2.51	0.89
1:B:190:ALA:HB2	1:B:200:LYS:HG3	1.51	0.89
5:R:517:SER:HB2	5:R:521:ASP:HB2	1.55	0.89
2:O:1113:LEU:HD23	3:P:641:ILE:HD11	1.55	0.89
2:I:550:VAL:HG22	3:J:780:ARG:HD2	1.54	0.89
3:D:1216:ALA:O	3:D:1220:ILE:HG13	1.72	0.89
2:C:1324:ASN:HA	2:C:1327:LEU:HD12	1.51	0.89
2:O:402:ARG:NH1	2:O:424:ASP:OD2	2.05	0.89
3:P:262:THR:O	5:R:507:MET:N	2.06	0.89
3:J:720:ASN:O	3:J:724:MET:HG3	1.72	0.89
3:J:1173:ARG:HB2	3:J:1190:ILE:HD12	1.54	0.89
5:F:585:GLU:OE2	5:F:588:ARG:CG	2.21	0.89
3:D:186:GLN:NE2	3:D:235:GLU:O	2.04	0.89
3:J:1230:THR:HG23	3:J:1257:VAL:HG11	1.53	0.89
2:O:524:ILE:CD1	2:O:712:SER:HB3	2.02	0.89
3:P:218:THR:HG22	3:P:222:LYS:HE3	1.54	0.89
2:C:1121:ALA:HB2	2:C:1182:ILE:HD11	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:25:LYS:HZ2	1:G:202:VAL:HG11	1.38	0.89
3:D:342:LEU:HB3	3:D:1352:ILE:HG12	1.52	0.89
2:O:1288:GLN:O	2:O:1292:THR:HG22	1.72	0.89
3:J:797:THR:CG2	3:J:924:GLY:HA3	2.02	0.89
3:D:1321:SER:O	3:D:1324:SER:OG	1.89	0.89
3:D:589:TYR:HE2	3:D:593:ASN:ND2	1.69	0.89
1:A:42:ALA:CA	1:B:38:THR:HG23	2.01	0.89
2:O:1284:ALA:HB1	3:P:1356:LEU:CD2	2.01	0.89
5:R:135:ALA:HB2	5:R:256:PHE:CB	2.03	0.89
1:N:140:ILE:HG13	1:N:142:MET:CE	2.01	0.89
2:C:206:ALA:O	2:C:209:ILE:HG23	1.73	0.88
3:D:432:LEU:HD11	3:D:499:ILE:HD13	1.53	0.88
5:L:583:THR:HG22	5:L:587:ILE:HD11	1.53	0.88
3:D:694:SER:OG	3:D:738:ARG:HD3	1.72	0.88
5:F:84:LEU:HG	5:F:107:THR:CG2	2.03	0.88
5:L:84:LEU:HD11	5:L:107:THR:CG2	2.03	0.88
3:D:252:LEU:HD13	3:D:262:THR:HB	1.54	0.88
3:P:139:LEU:HD22	3:P:185:ILE:CD1	1.97	0.88
3:J:130:MET:SD	3:J:135:ILE:HG12	2.14	0.88
1:A:38:THR:HG22	1:B:42:ALA:HA	1.52	0.88
1:G:47:LEU:CD1	1:G:183:ILE:HD13	2.02	0.88
3:D:97:VAL:HG12	3:D:101:ARG:HG3	1.54	0.88
3:J:923:ILE:HD11	3:J:1252:HIS:HB2	1.54	0.88
3:P:553:THR:HG23	3:P:567:THR:OG1	1.74	0.88
3:P:609:TYR:HA	3:P:617:THR:HG21	1.53	0.88
5:L:386:LEU:HD22	6:4:41:DT:C2	2.07	0.88
3:P:703:THR:O	3:P:718:SER:HB3	1.73	0.88
2:I:335:THR:HG22	2:I:336:LEU:H	1.36	0.88
3:J:368:LEU:O	3:J:441:LEU:HD23	1.74	0.88
3:D:501:VAL:HG22	3:D:605:LEU:HD12	1.55	0.88
1:M:68:TYR:HE2	2:O:927:THR:HB	1.35	0.88
2:I:686:GLN:NE2	2:I:1069:ARG:HG2	1.88	0.88
2:O:700:VAL:HG12	2:O:1117:LEU:HD23	1.55	0.88
1:M:150:ARG:N	1:M:150:ARG:HD3	1.87	0.88
2:I:870:ILE:HG13	2:I:944:ARG:HD3	1.55	0.88
3:D:502:PRO:HB3	3:D:506:VAL:HG11	1.55	0.88
2:O:1174:GLU:O	2:O:1177:ARG:HB3	1.72	0.88
2:I:797:GLY:HA3	2:I:1233:LEU:HD23	1.55	0.88
3:D:115:TRP:CH2	3:D:1329:THR:HA	2.08	0.88
3:D:797:THR:CG2	3:D:924:GLY:HA3	2.04	0.88
1:A:102:LEU:HD21	1:A:110:VAL:HG11	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1291:LEU:HD13	3:J:1354:GLY:HA2	1.53	0.88
2:C:525:THR:HG21	2:C:687:ARG:HD3	1.55	0.88
2:C:1275:VAL:O	2:C:1279:GLU:HG3	1.73	0.88
3:D:130:MET:HG2	3:D:135:ILE:CG1	2.04	0.88
3:P:115:TRP:CZ2	3:P:1329:THR:HG22	2.09	0.88
2:O:184:LEU:HG	2:O:389:PHE:CZ	2.08	0.88
5:L:132:CYS:SG	5:L:257:LYS:CE	2.61	0.88
2:I:137:VAL:O	2:I:138:ILE:HD13	1.74	0.88
1:N:47:LEU:HD13	1:N:183:ILE:HD13	1.54	0.88
2:I:1305:TYR:HA	2:I:1308:ILE:HD12	1.55	0.88
5:R:511:ILE:HD13	5:R:519:LEU:HA	1.56	0.88
6:7:44:DG:OP1	6:7:44:DG:H4'	1.73	0.88
3:D:182:ALA:HA	3:D:185:ILE:HD13	1.53	0.87
3:J:1226:VAL:O	3:J:1229:VAL:HG13	1.74	0.87
3:D:1356:LEU:HD13	3:D:1365:TYR:CD1	2.09	0.87
5:L:587:ILE:CD1	5:L:587:ILE:N	2.29	0.87
5:L:402:LEU:HA	5:L:405:ILE:HD12	1.56	0.87
2:I:1086:PRO:O	2:I:1094:VAL:HG23	1.73	0.87
2:C:797:GLY:HA3	2:C:1233:LEU:HD21	1.54	0.87
1:N:65:LEU:O	1:N:169:GLY:HA2	1.73	0.87
3:P:829:GLY:HA2	3:P:994:SER:O	1.74	0.87
1:B:69:SER:O	1:B:78:ILE:HG13	1.75	0.87
6:7:51:DC:H2''	6:7:52:DT:H5'	1.54	0.87
2:O:1286:THR:O	2:O:1290:MET:HG2	1.75	0.87
3:D:619:ILE:HG22	3:D:620:PHE:N	1.89	0.87
3:P:923:ILE:O	3:P:926:PRO:HD2	1.75	0.87
3:D:474:LEU:CD1	4:E:28:ARG:HG2	2.05	0.87
2:I:168:GLY:O	3:J:1065:ALA:CA	2.23	0.87
1:G:224:LEU:CG	1:H:228:LEU:HD11	2.05	0.87
3:D:1263:LYS:NZ	3:D:1315:ALA:O	2.08	0.87
3:P:384:LYS:NZ	3:P:415:VAL:HG22	1.89	0.87
3:P:259:ARG:HH22	5:R:502:LYS:HG2	1.39	0.87
2:I:1054:LEU:HD22	2:I:1055:ALA:N	1.88	0.87
1:M:51:MET:HE3	1:M:211:ILE:HG13	1.55	0.87
1:M:41:ASN:O	1:M:45:ARG:HG3	1.74	0.87
1:M:45:ARG:NH1	2:O:1216:ARG:HA	1.89	0.87
1:N:88:LEU:CD1	1:N:128:HIS:NE2	2.38	0.87
3:D:975:ILE:HD13	3:D:980:THR:CG2	2.03	0.87
2:O:448:LEU:HD11	2:O:557:ARG:CD	2.03	0.87
2:O:1101:LEU:HD23	3:P:725:MET:HG2	1.56	0.87
3:J:1252:HIS:O	3:J:1255:VAL:HB	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1338:GLU:O	3:D:20:ILE:HG23	1.74	0.87
1:H:28:LEU:HD12	1:H:201:LEU:HB3	1.56	0.87
2:O:205:PRO:O	2:O:208:ILE:HG22	1.74	0.87
3:P:363:LEU:HD23	3:P:487:THR:HG22	1.54	0.87
5:L:455:HIS:CD2	5:L:455:HIS:N	2.39	0.87
2:C:257:ALA:HB3	2:C:262:TYR:HE2	1.39	0.87
3:P:622:ASP:HB3	3:P:626:TYR:HE2	1.40	0.87
2:O:839:VAL:O	2:O:886:LYS:NZ	2.05	0.87
3:P:747:MET:HE2	3:P:774:ILE:CG2	2.04	0.87
2:O:227:LYS:HD3	2:O:334:GLU:CD	1.96	0.87
1:M:102:LEU:CD2	1:M:130:ILE:HD13	2.04	0.87
2:C:1117:LEU:HD11	2:C:1182:ILE:HD13	1.57	0.87
3:D:503:SER:O	3:D:506:VAL:HG23	1.75	0.87
3:J:115:TRP:CH2	3:J:1329:THR:CA	2.55	0.86
1:A:228:LEU:HD11	1:B:224:LEU:CD1	2.03	0.86
2:I:257:ALA:HB1	2:I:282:VAL:HG11	1.55	0.86
3:D:497:GLU:HB3	3:D:498:PRO:HD2	1.57	0.86
1:N:39:LEU:N	1:N:39:LEU:CD2	2.27	0.86
3:D:1229:VAL:HG22	3:D:1233:ILE:HD11	1.56	0.86
1:N:84:ASN:O	1:N:88:LEU:HD13	1.75	0.86
2:C:1253:LEU:HB2	5:F:523:ILE:CG2	2.05	0.86
3:D:880:VAL:CG1	3:D:881:LYS:N	2.38	0.86
1:M:45:ARG:HD3	1:N:38:THR:OG1	1.74	0.86
2:C:1330:ILE:HD13	2:C:1337:ILE:HD12	1.57	0.86
1:G:9:LEU:HD21	1:G:198:LEU:CD2	2.03	0.86
3:J:923:ILE:HD11	3:J:1252:HIS:CB	2.04	0.86
8:9:14:A:H5'	8:9:15:G:OP2	1.75	0.86
1:B:68:TYR:CE1	1:B:79:LEU:CD2	2.55	0.86
3:D:452:LEU:HD11	3:D:625:MET:CE	2.06	0.86
3:D:452:LEU:HG	3:D:625:MET:SD	2.15	0.86
3:D:478:LEU:CB	4:E:20:VAL:HG13	2.04	0.86
3:D:1309:ILE:HG22	3:D:1310:THR:N	1.90	0.86
2:I:1269:ARG:HG3	3:J:345:LYS:C	1.95	0.86
1:N:83:LEU:HD13	1:N:86:LYS:HD2	1.58	0.86
7:5:25:DA:H2''	7:5:26:DT:OP2	1.75	0.86
3:D:616:PRO:O	3:D:619:ILE:HB	1.74	0.86
2:C:1223:ARG:NH2	3:D:719:PHE:O	2.09	0.86
2:I:210:LEU:CB	2:I:220:ILE:HD11	2.06	0.86
3:P:425:ARG:HD2	3:P:457:TYR:HB3	1.57	0.86
3:D:797:THR:HG23	3:D:924:GLY:HA3	1.58	0.86
1:B:124:VAL:HG21	1:B:210:THR:HG23	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:673:VAL:HG11	3:P:678:ARG:HB2	1.58	0.86
3:J:353:SER:CB	3:J:372:MET:HE1	2.02	0.86
3:J:886:VAL:HG11	3:J:1261:LEU:HD11	1.56	0.86
2:C:303:ASP:HB2	2:C:310:ILE:HD11	1.55	0.86
5:R:386:LEU:HD13	6:7:41:DT:O4'	1.74	0.86
3:P:372:MET:O	3:P:376:LEU:HG	1.76	0.86
3:J:1250:ASP:HA	3:J:1253:ILE:HD12	1.56	0.85
3:D:1138:LEU:HD23	3:D:1139:PRO:HG3	1.58	0.85
1:H:47:LEU:CD1	1:H:183:ILE:HD12	2.06	0.85
3:J:825:VAL:HG22	3:J:838:ARG:HH11	1.41	0.85
2:O:1113:LEU:CD2	3:P:641:ILE:HD11	2.06	0.85
3:D:452:LEU:HD11	3:D:625:MET:HE2	1.56	0.85
1:G:38:THR:CG2	1:H:42:ALA:HA	2.06	0.85
5:R:392:LYS:HA	5:R:395:THR:HG23	1.56	0.85
3:J:115:TRP:O	3:J:119:SER:OG	1.93	0.85
2:C:708:VAL:CG1	2:C:794:LEU:HD22	2.06	0.85
3:J:749:LYS:HB3	3:J:750:PRO:HD3	1.57	0.85
3:J:1284:ARG:HA	3:J:1287:ILE:HD12	1.56	0.85
2:I:592:ARG:NH2	2:I:600:THR:O	2.08	0.85
3:D:24:LEU:HD12	3:D:232:ASN:HB3	1.59	0.85
3:P:425:ARG:HB2	3:P:466:MET:HE3	1.57	0.85
3:D:105:ILE:HG13	3:D:244:VAL:HG21	1.57	0.85
3:P:219:LYS:HA	3:P:222:LYS:HD2	1.58	0.85
1:G:38:THR:HG23	1:H:42:ALA:HA	1.58	0.85
2:C:257:ALA:HB3	2:C:262:TYR:CE2	2.11	0.85
3:D:1261:LEU:HD13	3:D:1304:ARG:HD2	1.59	0.85
2:O:1085:MET:HA	2:O:1085:MET:CE	2.07	0.85
2:O:171:LEU:HD22	2:O:188:PHE:O	1.76	0.85
2:I:533:LEU:CD2	2:I:538:LEU:O	2.24	0.85
3:D:543:SER:O	3:D:574:VAL:HG21	1.75	0.85
3:D:1137:GLY:O	3:D:1141:VAL:HG23	1.74	0.85
2:O:715:THR:HG22	2:O:786:GLY:H	1.39	0.85
2:O:634:VAL:HG12	2:O:635:THR:H	1.42	0.85
1:M:56:VAL:HG13	1:M:144:ILE:CG2	2.07	0.85
2:C:1274:GLU:N	2:C:1274:GLU:OE1	2.08	0.85
3:P:1353:VAL:CG2	3:P:1355:ARG:HD2	2.06	0.85
3:D:589:TYR:CE2	3:D:593:ASN:ND2	2.44	0.85
3:J:190:LYS:O	3:J:190:LYS:HG3	1.77	0.85
5:F:458:GLU:CA	5:F:461:ASN:ND2	2.40	0.85
3:P:435:GLN:HB2	3:P:457:TYR:OH	1.77	0.85
6:1:50:DT:H6	6:1:50:DT:H3'	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:395:LYS:CA	3:D:398:LYS:HE3	2.05	0.85
3:D:453:VAL:HG13	3:D:500:ILE:HD13	1.59	0.85
3:P:823:THR:O	3:P:838:ARG:NH1	2.10	0.85
3:D:24:LEU:CD1	3:D:232:ASN:HB3	2.06	0.84
2:I:106:GLU:CG	2:I:115:LYS:HB2	2.05	0.84
3:J:807:LEU:CD2	3:J:1259:GLN:HG2	2.06	0.84
2:C:204:LEU:HB3	2:C:205:PRO:HD2	1.58	0.84
3:P:303:VAL:O	3:P:307:LEU:HG	1.75	0.84
2:O:237:LEU:CD1	2:O:289:VAL:HG22	2.07	0.84
1:A:40:GLY:HA2	1:A:43:LEU:HD12	1.59	0.84
3:D:1328:THR:HG22	3:D:1332:LEU:HD11	1.59	0.84
2:I:157:PHE:O	2:I:442:VAL:CG1	2.25	0.84
2:I:790:ASP:O	2:I:792:GLY:N	2.10	0.84
2:I:1337:ILE:HD12	3:J:22:ILE:CG1	2.06	0.84
2:C:1273:MET:HA	2:C:1276:TRP:CE3	2.11	0.84
2:I:171:LEU:HD22	2:I:188:PHE:O	1.77	0.84
3:D:895:CYS:SG	3:D:898:CYS:N	2.50	0.84
3:J:278:ARG:O	3:J:282:LEU:HG	1.77	0.84
1:M:150:ARG:HH11	1:M:150:ARG:H	1.24	0.84
3:D:355:ILE:HD12	3:D:461:PHE:CE1	2.11	0.84
3:D:820:ILE:HD11	3:D:884:SER:HB2	1.56	0.84
2:C:838:CYS:SG	2:C:886:LYS:CE	2.65	0.84
2:I:542:ARG:NH2	6:4:49:DG:C8	2.45	0.84
2:I:4:SER:O	2:I:8:LYS:HG3	1.77	0.84
3:J:1190:ILE:HG22	3:J:1191:PRO:O	1.76	0.84
5:L:476:ARG:HG3	5:L:477:GLU:N	1.92	0.84
3:D:343:LEU:HD23	3:D:1351:VAL:HG11	1.58	0.84
1:G:26:VAL:HG11	1:G:217:ILE:HD12	1.59	0.84
3:P:508:LEU:CD1	3:P:508:LEU:C	2.25	0.84
3:J:139:LEU:HD23	3:J:185:ILE:HD11	1.60	0.84
2:C:1330:ILE:CD1	2:C:1337:ILE:HD12	2.07	0.84
3:P:575:GLY:CA	3:P:578:ILE:HD12	2.05	0.84
2:I:157:PHE:O	2:I:442:VAL:HG12	1.78	0.84
5:F:277:MET:SD	5:F:362:ASN:ND2	2.50	0.84
3:D:181:GLY:O	3:D:185:ILE:HD12	1.77	0.84
2:C:1270:PHE:HB2	3:D:347:VAL:CG2	2.07	0.84
3:J:481:ARG:O	3:J:485:MET:HB2	1.75	0.84
5:L:105:MET:SD	5:L:385:ARG:HG2	2.16	0.84
3:D:1146:GLU:OE1	3:D:1309:ILE:HB	1.78	0.84
3:D:746:LEU:CD2	3:D:758:PRO:HB3	2.07	0.84
3:J:749:LYS:CB	3:J:750:PRO:CD	2.52	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1350:ASN:HA	3:D:1353:VAL:HG22	1.58	0.84
8:9:13:GTP:H8	8:9:13:GTP:O3A	1.60	0.84
5:F:333:VAL:O	5:F:337:VAL:HG23	1.78	0.84
5:R:573:LEU:N	7:8:45:DG:OP2	2.11	0.84
2:O:99:LYS:HG3	2:O:121:GLU:HG3	1.60	0.84
1:A:150:ARG:NH2	1:B:32:GLU:OE1	2.11	0.84
3:D:79:LYS:NZ	5:F:569:THR:HG22	1.93	0.84
1:M:180:VAL:HA	1:M:207:THR:HG22	0.87	0.84
1:M:42:ALA:HA	1:N:38:THR:HG21	1.57	0.84
3:P:797:THR:HG23	3:P:924:GLY:HA2	1.60	0.84
3:D:131:PRO:O	3:D:135:ILE:HG13	1.77	0.84
2:O:812:PHE:O	2:O:1099:ASN:ND2	2.10	0.84
2:C:149:LEU:CD1	2:C:451:ARG:HB3	2.07	0.84
2:O:52:ALA:HB3	2:O:464:PHE:HE2	1.43	0.84
3:D:737:ILE:HG22	3:D:738:ARG:N	1.92	0.83
3:P:115:TRP:CH2	3:P:1329:THR:HA	2.13	0.83
2:I:811:ASN:HB3	2:I:817:LEU:HD12	1.60	0.83
5:F:386:LEU:HD13	6:1:41:DT:O4'	1.77	0.83
1:A:232:VAL:HG22	1:B:221:ALA:HB1	1.59	0.83
1:H:28:LEU:HD12	1:H:201:LEU:CB	2.07	0.83
2:O:247:ARG:HA	2:O:274:ILE:HD11	1.60	0.83
1:M:83:LEU:HD13	1:M:86:LYS:HD2	1.60	0.83
5:L:123:ILE:O	5:L:127:ILE:HG13	1.77	0.83
2:O:1184:THR:OG1	2:O:1190:ALA:N	2.11	0.83
3:P:749:LYS:HB3	3:P:750:PRO:HD2	1.58	0.83
2:C:669:PRO:HB3	2:C:1184:THR:HG22	1.58	0.83
1:B:217:ILE:CD1	1:B:217:ILE:H	1.89	0.83
2:I:169:LYS:NZ	2:I:192:ASP:OD1	2.10	0.83
3:D:839:VAL:CG1	3:D:864:LEU:HD13	2.08	0.83
3:P:883:ARG:CZ	3:P:898:CYS:SG	2.61	0.83
2:O:1100:PRO:HB3	3:P:639:VAL:CG2	2.08	0.83
5:F:329:LYS:O	5:F:330:LEU:HB2	1.76	0.83
3:D:483:LEU:O	3:D:489:ASN:ND2	2.09	0.83
3:D:1229:VAL:CG2	3:D:1233:ILE:HD11	2.08	0.83
3:P:1233:ILE:O	3:P:1237:VAL:HG23	1.77	0.83
3:P:512:TYR:CE1	3:P:545:HIS:CE1	2.66	0.83
3:P:622:ASP:O	3:P:626:TYR:HD2	1.59	0.83
5:R:392:LYS:HD3	6:7:43:DT:O3'	1.79	0.83
2:I:623:LEU:HD23	2:I:628:HIS:O	1.79	0.83
3:P:1348:LYS:HA	3:P:1351:VAL:CG2	2.08	0.83
3:J:614:LEU:HD23	4:K:7:GLN:CD	1.98	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:885:VAL:HG12	3:D:886:VAL:N	1.91	0.83
5:R:450:ILE:HD12	5:R:452:ILE:HD11	1.60	0.83
2:O:1112:ILE:CD1	3:P:639:VAL:O	2.25	0.83
3:P:268:LEU:O	3:P:272:VAL:HG23	1.78	0.83
3:P:318:GLY:HA3	3:P:322:ARG:HH12	1.41	0.83
3:D:245:LEU:O	3:D:250:ARG:NE	2.12	0.83
1:A:35:PHE:O	1:A:39:LEU:CG	2.25	0.83
2:O:1077:SER:HA	3:P:356:THR:CG2	2.09	0.83
3:J:1040:MET:HE2	3:J:1046:ILE:HD13	1.60	0.83
5:R:494:ILE:O	5:R:498:LEU:HG	1.77	0.83
2:O:1237:HIS:CG	2:O:1242:LYS:HZ1	1.96	0.83
2:O:1246:ARG:HD2	2:O:1265:PHE:O	1.77	0.83
5:F:518:HIS:O	5:F:520:GLY:N	2.12	0.83
2:O:1294:LYS:HB3	3:P:347:VAL:HG13	1.61	0.83
2:O:1324:ASN:HA	2:O:1327:LEU:HD12	1.59	0.83
1:M:158:ARG:HE	1:M:172:LEU:HD21	1.42	0.83
5:L:548:LEU:HD23	5:L:551:LEU:HD12	1.59	0.83
3:D:880:VAL:HG12	3:D:881:LYS:N	1.91	0.83
6:4:50:DT:H5'	6:4:51:DC:C6	2.13	0.83
2:O:9:LYS:HE2	2:O:1171:ARG:HD3	1.59	0.83
3:J:950:ILE:HB	3:J:1018:ALA:HB3	1.60	0.83
3:D:1306:LEU:HD12	3:D:1307:LEU:N	1.92	0.83
1:M:39:LEU:C	1:M:43:LEU:HG	1.99	0.83
2:I:1294:LYS:HD3	3:J:347:VAL:CG1	2.07	0.83
2:I:333:ILE:HG22	2:I:334:GLU:H	1.43	0.83
2:C:797:GLY:HA3	2:C:1233:LEU:CD2	2.08	0.83
5:F:583:THR:HG21	5:F:587:ILE:HD11	1.60	0.83
2:O:178:PRO:HA	2:O:397:LEU:CD2	2.08	0.83
2:I:870:ILE:CB	2:I:944:ARG:HD3	2.08	0.83
3:D:316:ILE:HG22	3:D:324:LEU:HD12	1.59	0.83
5:L:132:CYS:SG	5:L:257:LYS:NZ	2.51	0.83
2:C:807:TRP:CD1	2:C:817:LEU:HD11	2.14	0.83
3:J:1040:MET:HE3	3:J:1046:ILE:HG21	1.60	0.83
2:O:340:ASP:HA	2:O:344:GLY:HA2	1.59	0.83
1:A:75:GLN:O	2:C:729:ALA:HB2	1.79	0.83
2:I:725:GLN:NE2	2:I:735:LYS:HE2	1.92	0.83
5:L:91:ILE:O	5:L:91:ILE:HG22	1.78	0.83
5:L:145:LEU:HD22	5:L:225:ARG:HH12	1.44	0.83
2:O:197:ARG:HB3	2:O:200:ARG:HA	1.61	0.83
2:I:151:ARG:HD2	2:I:445:ILE:CG2	2.09	0.83
3:P:975:ILE:HD11	3:P:1003:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:499:ILE:HG22	3:P:500:ILE:HG12	1.61	0.82
3:J:342:LEU:HB3	3:J:1352:ILE:HG12	1.60	0.82
2:O:1101:LEU:HD21	3:P:725:MET:HG2	1.59	0.82
3:P:1221:LEU:HD11	3:P:1304:ARG:O	1.79	0.82
3:D:496:GLY:HA2	3:D:903:LEU:HD22	1.61	0.82
3:P:312:ARG:HB3	3:P:312:ARG:HH11	1.41	0.82
3:D:1270:GLY:HA2	3:D:1298:VAL:HB	1.60	0.82
2:I:1278:LEU:HD22	2:I:1283:ALA:HB3	1.61	0.82
2:C:91:THR:HG23	2:C:138:ILE:HA	1.60	0.82
1:N:85:LEU:HA	1:N:88:LEU:HD22	1.59	0.82
5:R:591:GLU:O	5:R:595:LEU:HG	1.78	0.82
2:O:960:LEU:HB3	2:O:1025:PHE:HE1	1.43	0.82
5:L:390:ILE:HD13	5:L:432:THR:HG23	1.62	0.82
3:D:147:ILE:CD1	3:D:178:ALA:HA	2.08	0.82
1:A:140:ILE:HG13	1:A:141:SER:H	1.43	0.82
3:P:883:ARG:NE	3:P:898:CYS:SG	2.52	0.82
4:Q:18:ASP:O	4:Q:22:VAL:HG23	1.78	0.82
2:I:745:GLU:HG3	2:I:746:ALA:N	1.95	0.82
2:C:674:ASP:O	3:D:772:TYR:OH	1.95	0.82
3:P:1259:GLN:NE2	3:P:1259:GLN:HA	1.94	0.82
5:L:395:THR:HA	5:L:404:LEU:HD13	1.61	0.82
3:J:1233:ILE:O	3:J:1237:VAL:HG23	1.79	0.82
2:C:1327:LEU:HA	2:C:1337:ILE:CD1	2.10	0.82
2:I:524:ILE:HD11	2:I:712:SER:CB	2.09	0.82
3:D:209:ASN:HB2	3:D:214:ARG:HD3	1.60	0.82
1:B:88:LEU:CD1	1:B:128:HIS:CG	2.62	0.82
2:O:839:VAL:O	2:O:886:LYS:HE2	1.79	0.82
5:L:437:GLN:OE1	7:5:27:DA:N6	2.12	0.82
3:D:117:LEU:HA	3:D:124:ILE:HD11	1.60	0.82
2:C:1232:MET:C	2:C:1233:LEU:HG	1.99	0.82
5:F:385:ARG:O	5:F:388:ILE:HG22	1.79	0.82
6:4:47:DC:N3	6:4:48:DA:C6	2.48	0.82
8:3:13:GTP:PA	8:3:13:GTP:H8	2.03	0.82
3:P:53:ARG:O	3:P:58:CYS:HB2	1.78	0.82
2:C:524:ILE:CD1	2:C:712:SER:HB3	2.09	0.82
2:C:1289:GLU:CD	3:D:472:LEU:HB2	2.00	0.82
1:N:47:LEU:CD1	1:N:183:ILE:HD13	2.09	0.82
1:M:85:LEU:HD21	1:M:130:ILE:HG23	1.61	0.82
1:H:82:LEU:HD22	1:H:173:VAL:CG2	2.09	0.82
2:C:896:THR:HG23	2:C:898:GLU:HB2	1.60	0.82
5:L:469:GLN:O	5:L:472:GLN:HG2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:PRO:O	3:D:237:MET:HG2	1.79	0.82
1:G:91:ARG:CD	1:G:124:VAL:HG23	2.10	0.82
5:R:450:ILE:O	5:R:450:ILE:HG13	1.77	0.82
3:P:746:LEU:HG	3:P:758:PRO:HB3	1.61	0.82
2:C:496:LYS:HB2	2:C:497:PRO:HD3	1.60	0.82
2:C:708:VAL:HG11	2:C:794:LEU:HD22	1.60	0.82
3:D:1226:VAL:O	3:D:1230:THR:OG1	1.97	0.82
1:B:61:ILE:HD13	1:B:64:VAL:HG11	1.61	0.82
3:P:747:MET:CE	3:P:774:ILE:HG22	2.09	0.82
2:I:661:VAL:CG1	2:I:665:ALA:HB3	2.09	0.82
2:I:599:VAL:HG21	2:I:623:LEU:HD11	1.60	0.82
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.62	0.82
3:J:24:LEU:HD13	3:J:237:MET:CE	2.10	0.81
3:P:1226:VAL:O	3:P:1230:THR:OG1	1.96	0.81
3:P:1262:ARG:HH12	3:P:1316:THR:HG22	1.45	0.81
3:D:644:MET:O	3:D:764:ARG:NH1	2.13	0.81
3:D:1229:VAL:HG13	3:D:1230:THR:H	1.45	0.81
1:G:69:SER:O	1:G:78:ILE:CG1	2.28	0.81
3:D:205:LEU:CD2	3:D:214:ARG:HG3	2.08	0.81
3:J:840:LEU:HD13	3:J:869:CYS:SG	2.20	0.81
2:I:167:SER:CB	3:J:1064:SER:HB3	2.10	0.81
1:B:35:PHE:O	1:B:39:LEU:HG	1.80	0.81
3:P:843:VAL:HB	3:P:897:HIS:O	1.80	0.81
5:F:440:THR:O	5:F:443:ILE:HG22	1.80	0.81
5:F:573:LEU:HB3	7:2:45:DG:OP2	1.80	0.81
2:C:1289:GLU:OE1	3:D:472:LEU:CG	2.27	0.81
3:D:431:ARG:NH2	3:D:904:ALA:CB	2.43	0.81
3:P:697:MET:CE	3:P:737:ILE:CG2	2.58	0.81
2:I:902:LEU:HA	2:I:905:ILE:HD12	1.62	0.81
3:P:264:ASP:CG	5:R:508:GLU:HB2	2.01	0.81
3:P:385:LEU:HD21	3:P:411:ILE:CD1	2.09	0.81
1:N:140:ILE:HG13	1:N:142:MET:HE1	1.60	0.81
5:R:488:LEU:O	5:R:488:LEU:HG	1.80	0.81
3:P:816:THR:OG1	3:P:889:ASP:HB2	1.80	0.81
2:I:228:VAL:HG22	2:I:245:ARG:NH1	1.95	0.81
3:P:1163:VAL:HG13	3:P:1177:ILE:HA	1.62	0.81
3:D:536:LEU:HD13	3:D:542:ALA:CB	2.10	0.81
3:P:809:VAL:HG23	3:P:915:ILE:HD11	1.63	0.81
3:D:1078:LEU:HD13	3:D:1121:LEU:HD22	1.60	0.81
3:P:785:ASP:HB3	3:P:935:PHE:CZ	2.16	0.81
2:I:700:VAL:HG11	2:I:1114:GLU:HG3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:298:ALA:HB2	2:I:336:LEU:HD21	1.61	0.81
5:L:489:MET:HB3	5:L:490:PRO:HD2	1.63	0.81
4:K:27:ALA:HA	4:K:30:MET:SD	2.20	0.81
2:C:525:THR:HG21	2:C:687:ARG:CD	2.11	0.81
3:J:1257:VAL:O	3:J:1261:LEU:HG	1.79	0.81
3:P:739:GLN:HG2	3:P:744:ARG:CG	2.08	0.81
2:I:164:THR:O	2:I:168:GLY:HA2	1.80	0.81
1:B:190:ALA:H	1:B:199:ASP:HA	1.45	0.81
1:M:68:TYR:HE2	2:O:927:THR:CB	1.93	0.81
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.61	0.81
3:J:885:VAL:HG11	3:J:1255:VAL:HA	1.63	0.81
1:A:57:THR:CG2	1:A:158:ARG:NH2	2.44	0.81
5:F:533:ASP:O	5:F:536:THR:HB	1.80	0.81
2:I:949:GLU:O	2:I:953:LEU:HG	1.81	0.81
5:F:365:MET:O	5:F:369:GLU:HG3	1.79	0.81
3:J:369:PRO:HD3	3:J:447:ILE:HG13	1.61	0.81
3:J:749:LYS:CB	3:J:750:PRO:HD2	2.10	0.81
3:D:1146:GLU:CD	3:D:1309:ILE:HB	2.01	0.81
1:G:48:LEU:HD21	1:G:183:ILE:HG22	1.61	0.81
3:J:1320:ILE:HD12	3:J:1342:ASP:OD2	1.80	0.81
5:R:117:ILE:HG23	5:R:421:TYR:HB2	1.61	0.81
2:O:997:TRP:HB3	2:O:1000:LEU:HD23	1.63	0.81
3:D:395:LYS:HA	3:D:398:LYS:CE	2.10	0.81
3:D:349:TYR:HB3	3:D:470:VAL:CG2	2.10	0.81
2:I:666:SER:HA	2:I:1186:VAL:HG21	1.62	0.81
2:I:1288:GLN:O	2:I:1292:THR:HG22	1.81	0.81
5:L:84:LEU:HD11	5:L:107:THR:HG21	1.60	0.81
3:D:880:VAL:CG1	3:D:881:LYS:H	1.93	0.81
3:J:895:CYS:SG	3:J:898:CYS:N	2.50	0.81
2:O:366:ILE:HG22	2:O:384:LEU:HD21	1.62	0.81
3:J:915:ILE:O	3:J:918:ILE:CG2	2.26	0.81
3:P:574:VAL:O	3:P:578:ILE:HG13	1.81	0.81
5:R:540:LEU:O	5:R:544:THR:HG23	1.81	0.81
5:F:585:GLU:HG3	7:2:47:DC:H41	1.46	0.81
2:I:210:LEU:HB2	2:I:220:ILE:HD11	1.63	0.81
1:N:220:ALA:HA	1:N:223:ILE:HD12	1.63	0.81
2:O:371:ARG:C	5:R:99:ARG:NH2	2.34	0.81
2:C:19:PRO:HB3	2:C:1156:ARG:HD2	1.61	0.81
3:D:422:LEU:C	3:D:423:LEU:HD23	2.02	0.80
3:D:363:LEU:HG	3:D:487:THR:HG22	1.61	0.80
1:G:47:LEU:CD1	1:G:183:ILE:HD12	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:150:ARG:H	1:M:150:ARG:HD3	1.45	0.80
7:8:22:DA:H1'	7:8:23:DT:P	2.22	0.80
2:O:432:LEU:HG	2:O:433:ILE:N	1.94	0.80
2:C:1258:PRO:HG2	3:D:346:ARG:HB2	1.63	0.80
6:4:47:DC:N3	6:4:48:DA:N1	2.29	0.80
3:D:975:ILE:HD12	3:D:997:VAL:HG11	1.63	0.80
3:J:843:VAL:CG1	3:J:883:ARG:HB3	2.10	0.80
2:O:371:ARG:HB3	5:R:99:ARG:NH2	1.96	0.80
6:4:50:DT:H6	6:4:50:DT:H3'	1.45	0.80
5:F:295:CYS:O	5:F:296:LYS:HB2	1.81	0.80
3:D:194:LEU:HD12	3:D:194:LEU:H	1.47	0.80
3:J:1350:ASN:ND2	3:J:1356:LEU:O	2.13	0.80
3:D:70:CYS:HB2	3:D:90:VAL:HB	1.63	0.80
5:L:449:THR:OG1	5:L:504:PRO:CG	2.29	0.80
1:A:44:ARG:O	1:A:47:LEU:HB2	1.82	0.80
2:I:868:SER:HB2	2:I:870:ILE:HG12	1.63	0.80
3:J:1259:GLN:OE1	3:J:1262:ARG:CD	2.29	0.80
5:F:514:ASP:O	5:F:516:ASP:N	2.14	0.80
1:M:41:ASN:HD21	2:O:1218:GLY:N	1.79	0.80
1:M:42:ALA:CA	1:N:38:THR:CG2	2.55	0.80
3:D:1229:VAL:HG22	3:D:1230:THR:N	1.95	0.80
2:O:333:ILE:HG22	2:O:334:GLU:N	1.95	0.80
2:C:885:GLY:HA2	2:C:917:SER:OG	1.81	0.80
3:D:795:TYR:OH	7:2:11:DA:H2''	1.82	0.80
1:G:47:LEU:HD13	1:G:183:ILE:CD1	2.11	0.80
3:D:147:ILE:HG13	3:D:178:ALA:HA	1.64	0.80
3:D:259:ARG:NH1	5:F:505:ILE:HG12	1.96	0.80
3:D:115:TRP:HE3	3:D:1333:THR:HG23	1.46	0.80
2:O:293:ALA:HB2	2:O:319:LEU:HD21	1.63	0.80
3:D:474:LEU:HD12	4:E:28:ARG:HG2	1.64	0.80
3:J:1259:GLN:OE1	3:J:1262:ARG:HD3	1.82	0.80
2:C:255:ILE:HD13	2:C:285:ILE:CD1	2.11	0.80
2:I:1286:THR:O	2:I:1290:MET:HG2	1.81	0.80
1:H:14:VAL:HG21	1:H:29:GLU:HG2	1.62	0.80
2:C:56:VAL:HG12	2:C:59:ILE:HD11	1.62	0.80
5:R:110:LEU:H	5:R:110:LEU:CD1	1.88	0.80
2:C:1278:LEU:HD21	2:C:1286:THR:HB	1.62	0.80
1:A:38:THR:HG23	1:B:42:ALA:HA	1.63	0.80
2:O:210:LEU:HD23	2:O:213:LEU:HD12	1.61	0.80
2:C:718:ALA:HB2	2:C:783:LEU:HD21	1.62	0.80
3:D:1259:GLN:HA	3:D:1259:GLN:HE21	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1259:GLN:HA	3:D:1259:GLN:NE2	1.95	0.80
4:E:60:ASN:HD21	4:E:62:GLN:HB3	1.44	0.80
2:O:1273:MET:HB3	3:P:428:THR:HB	1.63	0.80
2:O:1104:PRO:HG3	3:P:725:MET:CE	2.11	0.80
2:C:1109:ILE:HG13	3:D:740:LEU:HD22	1.64	0.80
3:P:261:ALA:HB2	5:R:519:LEU:HD21	1.64	0.80
3:P:1347:LEU:O	3:P:1351:VAL:HG23	1.81	0.80
3:D:1261:LEU:HD13	3:D:1304:ARG:CD	2.11	0.79
3:D:470:VAL:CB	3:D:472:LEU:HD21	2.06	0.79
2:C:1281:TYR:CE2	3:D:431:ARG:HB2	2.17	0.79
2:O:295:LYS:HD2	2:O:335:THR:CG2	2.10	0.79
2:I:725:GLN:HB3	2:I:733:VAL:HG23	1.64	0.79
3:P:1101:LEU:HD22	3:P:1122:ALA:HB3	1.62	0.79
2:O:839:VAL:O	2:O:886:LYS:CE	2.29	0.79
3:P:312:ARG:NH1	3:P:312:ARG:HB3	1.96	0.79
2:I:681:MET:O	2:I:685:MET:HG2	1.82	0.79
2:C:1031:ALA:HB3	2:C:1032:LYS:HE3	1.63	0.79
1:M:152:TYR:OH	1:M:174:ASP:HB3	1.82	0.79
3:J:65:VAL:HG13	3:J:98:ARG:NH1	1.96	0.79
1:G:59:VAL:HG13	1:G:144:ILE:HG12	1.62	0.79
2:I:870:ILE:CG1	2:I:944:ARG:HD3	2.11	0.79
2:C:96:LEU:HB2	2:C:127:ILE:CD1	2.11	0.79
3:J:1280:VAL:HG12	3:J:1281:GLU:H	1.46	0.79
1:G:45:ARG:NH1	2:I:1216:ARG:HA	1.97	0.79
1:M:38:THR:CG2	1:N:42:ALA:HB1	2.12	0.79
3:D:918:ILE:HG22	3:D:919:ALA:H	1.44	0.79
3:D:783:LEU:CD1	3:D:783:LEU:N	2.44	0.79
3:J:1284:ARG:O	3:J:1287:ILE:HB	1.82	0.79
2:O:681:MET:O	2:O:685:MET:HG2	1.82	0.79
3:P:1031:VAL:HG13	3:P:1091:PRO:HD3	1.63	0.79
1:B:9:LEU:HD12	1:B:10:LYS:H	1.46	0.79
3:J:849:LEU:HD22	3:J:856:ILE:O	1.83	0.79
2:I:868:SER:HB2	2:I:870:ILE:CG1	2.13	0.79
2:C:930:ASP:OD2	2:C:932:GLN:NE2	2.15	0.79
2:O:1223:ARG:CD	3:P:635:SER:O	2.30	0.79
2:C:831:ILE:CD1	2:C:831:ILE:H	1.96	0.79
3:J:825:VAL:CG2	3:J:838:ARG:NH1	2.44	0.79
3:P:464:ASP:OD1	8:9:15:G:O2'	2.01	0.79
2:C:817:LEU:HD21	2:C:1080:ASN:ND2	1.98	0.79
3:P:135:ILE:O	3:P:139:LEU:HG	1.82	0.79
5:F:583:THR:CG2	5:F:587:ILE:HD11	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:419:HIS:O	3:P:439:PRO:CD	2.30	0.79
2:O:213:LEU:O	2:O:214:ASN:HB3	1.83	0.79
2:O:1290:MET:HA	2:O:1294:LYS:HD2	1.65	0.79
2:I:805:MET:CE	2:I:806:PRO:HD2	2.13	0.79
2:I:247:ARG:HG3	2:I:274:ILE:HD13	1.65	0.79
3:J:53:ARG:O	3:J:58:CYS:HB2	1.82	0.79
3:J:115:TRP:HE3	3:J:1333:THR:HG23	1.46	0.79
2:I:1275:VAL:CG1	2:I:1279:GLU:OE2	2.31	0.79
2:C:448:LEU:HB2	2:C:608:ALA:CB	2.13	0.79
3:D:139:LEU:O	3:D:141:PHE:CE2	2.34	0.79
3:D:342:LEU:HD22	3:D:1352:ILE:HG23	1.65	0.79
1:N:191:ARG:HG3	1:N:196:THR:CG2	2.11	0.79
3:J:423:LEU:HB3	3:J:466:MET:CE	2.13	0.79
1:M:68:TYR:CE2	2:O:927:THR:HB	2.17	0.79
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.15	0.79
2:I:811:ASN:O	2:I:1099:ASN:HB2	1.82	0.79
2:C:301:TYR:CE1	2:C:333:ILE:HG23	2.17	0.79
3:J:1331:VAL:O	3:J:1334:GLU:HB2	1.82	0.79
1:N:92:VAL:HG22	1:N:121:VAL:HG22	1.65	0.79
4:E:44:ASP:OD2	4:E:48:VAL:HG11	1.82	0.79
3:J:849:LEU:HD11	3:J:857:LEU:HD23	1.63	0.79
2:I:870:ILE:HG13	2:I:944:ARG:CD	2.13	0.79
2:I:870:ILE:HG13	2:I:944:ARG:CG	2.13	0.79
2:O:149:LEU:HD11	2:O:451:ARG:HB3	1.65	0.79
6:1:44:DG:H4'	6:1:44:DG:OP1	1.82	0.79
1:G:47:LEU:HD13	1:G:183:ILE:HD12	1.63	0.79
3:D:259:ARG:HH11	5:F:505:ILE:HG12	1.48	0.79
1:B:61:ILE:HD11	1:B:171:LEU:CD1	2.13	0.79
3:D:1138:LEU:CB	3:D:1139:PRO:HD3	2.12	0.79
3:D:909:ILE:HD13	3:D:910:ASN:N	1.97	0.79
2:I:297:VAL:HG12	2:I:317:LEU:HD21	1.63	0.79
2:O:52:ALA:HB1	2:O:468:LEU:CD1	2.13	0.79
2:O:163:LYS:HG2	2:O:164:THR:N	1.97	0.79
2:I:149:LEU:HD11	2:I:451:ARG:HB3	1.64	0.79
2:I:589:THR:HG22	2:I:590:PRO:HD2	1.64	0.79
1:N:38:THR:CB	1:N:39:LEU:HD23	2.13	0.78
3:D:869:CYS:O	3:D:873:GLU:HG3	1.83	0.78
2:O:1223:ARG:HD2	3:P:635:SER:O	1.83	0.78
3:J:46:TYR:O	3:J:49:PHE:CE1	2.35	0.78
2:C:257:ALA:HB2	2:C:277:LEU:CD1	2.13	0.78
3:J:964:LYS:HD3	3:J:1197:ASN:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:115:TRP:HH2	3:J:1329:THR:HA	1.48	0.78
3:J:62:PHE:O	3:J:98:ARG:HG3	1.83	0.78
3:P:325:LYS:HA	3:P:329:ASP:OD2	1.83	0.78
3:P:975:ILE:HD13	3:P:980:THR:HG21	1.64	0.78
6:4:34:DG:N2	7:5:29:DC:O2	2.16	0.78
2:I:447:HIS:CE1	2:I:553:THR:HG21	2.19	0.78
2:O:310:ILE:HD13	2:O:324:LYS:HB3	1.64	0.78
3:J:1323:ALA:CB	3:J:1332:LEU:HD21	2.12	0.78
2:O:1142:ARG:CZ	2:O:1169:VAL:HG21	2.13	0.78
1:G:49:SER:HB2	1:H:33:ARG:NH1	1.99	0.78
6:7:44:DG:H2''	6:7:45:DT:O4'	1.82	0.78
3:P:1282:TYR:O	3:P:1285:VAL:HG12	1.84	0.78
3:P:314:ARG:NH2	5:R:96:ASP:OD2	2.16	0.78
1:M:92:VAL:HG11	1:M:95:LYS:O	1.84	0.78
3:P:482:ALA:O	3:P:488:ASN:ND2	2.17	0.78
1:M:225:ALA:HB2	1:N:228:LEU:HD11	1.66	0.78
2:I:511:LEU:HD11	2:I:535:PRO:HD2	1.64	0.78
2:I:136:PHE:HB3	2:I:138:ILE:HD11	1.64	0.78
2:C:1257:GLN:NE2	3:D:345:LYS:HB3	1.97	0.78
1:G:9:LEU:CD2	1:G:198:LEU:HD21	2.08	0.78
2:C:538:LEU:HD23	2:C:538:LEU:N	1.98	0.78
2:I:178:PRO:HG3	2:I:395:TYR:CE1	2.18	0.78
3:J:832:LYS:NZ	3:J:1242:ARG:HB3	1.98	0.78
3:D:496:GLY:HA2	3:D:903:LEU:CD2	2.14	0.78
5:R:96:ASP:O	5:R:100:MET:HG3	1.83	0.78
2:I:15:PHE:CE2	2:I:1182:ILE:HG23	2.19	0.78
2:I:1200:LYS:HE3	2:I:1206:THR:HG21	1.64	0.78
3:J:447:ILE:N	3:J:447:ILE:HD12	1.98	0.78
3:D:1229:VAL:O	3:D:1233:ILE:CG1	2.31	0.78
2:C:1323:PHE:CE1	2:C:1327:LEU:HD21	2.14	0.78
3:D:814:CYS:SG	10:D:1502:ZN:ZN	1.72	0.78
2:O:213:LEU:O	2:O:214:ASN:HB2	1.82	0.78
2:O:726:TYR:HB3	2:O:733:VAL:CG2	2.14	0.78
3:D:601:ILE:HG22	3:D:602:SER:N	1.95	0.78
3:P:407:VAL:O	3:P:411:ILE:HG13	1.84	0.78
2:C:896:THR:CG2	2:C:898:GLU:HB2	2.13	0.78
1:B:219:ARG:O	1:B:223:ILE:HG13	1.84	0.78
2:I:658:GLN:NE2	2:I:1186:VAL:H	1.81	0.78
3:J:1342:ASP:OD2	3:J:1344:LEU:HG	1.84	0.78
3:D:845:ALA:HB3	3:D:881:LYS:HD3	1.64	0.78
2:C:1183:ALA:O	2:C:1185:PRO:HD3	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:678:ARG:HD3	2:I:1106:ARG:O	1.82	0.78
2:C:790:ASP:O	2:C:792:GLY:N	2.17	0.78
3:D:432:LEU:HD12	3:D:499:ILE:HD13	1.64	0.78
3:J:62:PHE:HB3	3:J:98:ARG:CG	2.11	0.78
2:O:1294:LYS:HD3	3:P:347:VAL:CG1	2.14	0.78
1:M:8:PHE:CZ	1:N:223:ILE:CG2	2.66	0.78
1:M:56:VAL:HG13	1:M:144:ILE:HG23	1.64	0.78
2:C:1058:ARG:HH11	2:C:1238:LEU:HD12	1.49	0.78
1:N:35:PHE:HB3	1:N:39:LEU:HD11	1.66	0.78
2:I:538:LEU:N	2:I:538:LEU:HD23	1.95	0.78
1:N:44:ARG:CA	1:N:47:LEU:HD12	2.13	0.78
3:J:795:TYR:O	3:J:799:ARG:HG3	1.84	0.78
1:M:57:THR:HG22	1:M:58:GLU:HG3	1.66	0.78
3:D:452:LEU:HD11	3:D:625:MET:SD	2.23	0.78
3:J:1140:ARG:O	3:J:1144:LEU:HG	1.83	0.78
3:D:322:ARG:HE	5:F:510:PRO:HD3	1.48	0.78
3:P:79:LYS:HG3	5:R:569:THR:HG23	1.63	0.78
1:G:232:VAL:CG2	1:H:221:ALA:HB3	2.13	0.78
1:H:100:LEU:HB3	1:H:115:ILE:HD12	1.64	0.78
3:J:423:LEU:CB	3:J:466:MET:HE1	2.14	0.78
3:J:1272:SER:HB2	3:J:1274:PHE:CZ	2.19	0.78
2:C:797:GLY:CA	2:C:1233:LEU:HD21	2.13	0.78
3:D:1252:HIS:HB2	3:D:1253:ILE:HD12	1.66	0.78
2:I:530:ILE:HD11	2:I:575:LEU:HB2	1.66	0.78
1:B:154:PRO:HD2	1:B:157:THR:HB	1.64	0.78
3:J:352:ARG:O	3:J:372:MET:HE1	1.84	0.77
1:M:47:LEU:CD1	1:M:183:ILE:HD12	2.02	0.77
3:P:481:ARG:O	3:P:485:MET:HB2	1.83	0.77
5:F:84:LEU:CG	5:F:107:THR:HG21	2.14	0.77
3:J:931:THR:HG23	3:J:1134:ILE:HB	1.65	0.77
3:D:452:LEU:CG	3:D:625:MET:SD	2.72	0.77
5:L:392:LYS:HD2	6:4:43:DT:H2"	1.66	0.77
3:D:53:ARG:O	3:D:58:CYS:HB2	1.84	0.77
5:F:141:ILE:HD11	5:F:256:PHE:CE1	2.19	0.77
2:I:715:THR:HG22	2:I:786:GLY:H	1.49	0.77
2:C:164:THR:O	2:C:165:HIS:HB2	1.81	0.77
3:D:848:VAL:HG21	3:D:880:VAL:HG11	1.65	0.77
2:O:1269:ARG:NH1	3:P:340:GLN:HG3	2.00	0.77
1:N:158:ARG:HD2	1:N:172:LEU:HD21	1.64	0.77
1:A:228:LEU:HA	1:A:231:PHE:CD2	2.19	0.77
3:D:490:ILE:H	3:D:490:ILE:HD12	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:224:LEU:C	1:N:224:LEU:HD12	2.02	0.77
1:N:179:PRO:O	1:N:208:ASN:CB	2.32	0.77
2:O:191:LYS:O	2:O:192:ASP:HB2	1.83	0.77
2:C:82:VAL:HG23	2:C:83:GLN:N	1.99	0.77
1:B:217:ILE:CD1	1:B:217:ILE:N	2.48	0.77
2:C:568:ASN:HA	2:C:571:LEU:HD12	1.66	0.77
3:J:1146:GLU:OE2	3:J:1309:ILE:HB	1.84	0.77
3:P:963:VAL:CG2	3:P:975:ILE:HG23	2.14	0.77
1:M:152:TYR:CD1	1:M:175:ALA:O	2.38	0.77
2:C:1334:GLY:O	3:D:25:ALA:HB2	1.84	0.77
3:J:369:PRO:CD	3:J:447:ILE:HG13	2.14	0.77
3:J:849:LEU:HD11	3:J:857:LEU:CD2	2.15	0.77
5:L:407:GLU:HA	5:L:410:ILE:HD12	1.66	0.77
2:O:559:CYS:CB	2:O:662:SER:HB3	2.15	0.77
2:C:1290:MET:N	2:C:1290:MET:SD	2.54	0.77
1:N:88:LEU:CD1	1:N:128:HIS:CD2	2.66	0.77
3:J:918:ILE:CG2	3:J:919:ALA:N	2.47	0.77
2:I:560:PRO:HB2	3:J:776:THR:HG21	1.67	0.77
2:O:1292:THR:HG23	2:O:1293:VAL:H	1.49	0.77
2:I:298:ALA:CB	2:I:336:LEU:HD21	2.15	0.77
2:C:1335:ILE:HD12	2:C:1335:ILE:N	1.99	0.77
7:5:4:DC:C4	7:5:5:DC:N4	2.53	0.77
2:C:1098:LEU:HD22	2:C:1099:ASN:H	1.49	0.77
4:Q:2:ALA:N	4:Q:6:VAL:HG13	2.00	0.77
1:G:78:ILE:HA	1:G:81:ILE:HD12	1.65	0.77
3:J:807:LEU:HD11	3:J:1259:GLN:HE21	1.49	0.77
3:J:1318:SER:OG	3:J:1321:SER:HB3	1.83	0.77
3:D:435:GLN:OE1	3:D:486:SER:HB3	1.85	0.77
2:C:522:SER:O	2:C:525:THR:HG22	1.85	0.77
1:B:61:ILE:HD11	1:B:171:LEU:HD12	1.66	0.77
2:C:1278:LEU:HD13	2:C:1287:LEU:HA	1.67	0.77
3:P:747:MET:HE2	3:P:774:ILE:HG22	1.67	0.77
3:P:425:ARG:HD2	3:P:457:TYR:CB	2.14	0.77
3:J:807:LEU:HD11	3:J:1259:GLN:NE2	1.98	0.77
5:F:166:VAL:HG12	5:F:167:ASP:N	1.98	0.77
2:O:237:LEU:HD12	2:O:289:VAL:HG22	1.66	0.77
2:C:1252:SER:HA	2:C:1259:LEU:HD21	1.67	0.77
3:D:1163:VAL:HG13	3:D:1176:VAL:O	1.85	0.77
3:J:495:ASN:HD21	3:J:497:GLU:HB2	1.50	0.77
3:D:492:SER:OG	3:D:495:ASN:N	2.17	0.77
3:J:24:LEU:HD12	3:J:232:ASN:CB	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:LEU:HG	1:B:225:ALA:N	2.00	0.77
2:C:1288:GLN:HB3	2:C:1315:MET:CE	2.14	0.77
2:O:1100:PRO:HB3	3:P:639:VAL:HG23	1.67	0.77
3:P:428:THR:O	3:P:428:THR:CG2	2.32	0.77
2:C:96:LEU:HB3	2:C:127:ILE:HD11	1.66	0.77
3:J:513:MET:HE1	3:J:579:LEU:HD21	1.66	0.77
2:O:52:ALA:HB3	2:O:464:PHE:CE2	2.20	0.77
3:D:382:TYR:HE1	3:D:398:LYS:HA	1.50	0.77
3:D:186:GLN:CA	3:D:189:LEU:HD12	2.12	0.77
3:D:425:ARG:HH22	8:3:16:U:C4'	1.97	0.77
2:O:1085:MET:HA	2:O:1085:MET:HE3	1.66	0.77
2:I:165:HIS:CB	2:I:168:GLY:H	1.98	0.77
2:O:347:ILE:HD11	2:O:433:ILE:HD11	1.66	0.77
2:C:1108:ASN:N	2:C:1108:ASN:OD1	2.17	0.77
3:J:515:ARG:HH21	3:J:717:VAL:HB	1.49	0.77
1:N:162:GLU:OE2	1:N:166:ARG:NH1	2.18	0.77
2:I:886:LYS:N	2:I:917:SER:OG	2.18	0.77
2:C:1321:GLU:O	2:C:1325:VAL:HG23	1.84	0.77
3:J:1253:ILE:O	3:J:1257:VAL:HG23	1.84	0.76
3:J:899:TYR:CE1	3:J:915:ILE:CG2	2.67	0.76
3:J:132:LEU:HA	3:J:135:ILE:HD12	1.67	0.76
2:C:1327:LEU:HA	2:C:1330:ILE:HD12	1.67	0.76
3:P:805:GLN:HB2	3:P:1347:LEU:HD12	1.67	0.76
1:B:48:LEU:HD21	1:B:183:ILE:HG21	1.65	0.76
2:O:719:LYS:HA	2:O:719:LYS:HE2	1.66	0.76
2:C:555:TYR:OH	3:D:769:VAL:HG11	1.84	0.76
3:D:657:ALA:O	3:D:661:VAL:HG23	1.84	0.76
1:A:13:LEU:HA	1:A:28:LEU:HD22	1.65	0.76
3:D:849:LEU:HD23	3:D:856:ILE:O	1.83	0.76
3:P:139:LEU:HD21	3:P:185:ILE:CD1	2.08	0.76
2:C:1292:THR:HG23	2:C:1293:VAL:N	2.01	0.76
3:J:843:VAL:HG21	3:J:897:HIS:HB3	1.66	0.76
1:G:232:VAL:HG22	1:H:221:ALA:HB3	1.66	0.76
2:C:314:ASN:ND2	2:C:351:LEU:HD13	2.00	0.76
3:P:384:LYS:HZ3	3:P:415:VAL:HG22	1.48	0.76
3:P:262:THR:C	5:R:507:MET:HB3	2.05	0.76
3:J:145:VAL:HG23	3:J:158:GLN:O	1.85	0.76
3:J:1029:THR:CG2	3:J:1121:LEU:HD11	2.15	0.76
2:I:12:ARG:NH2	2:I:793:GLU:OE1	2.15	0.76
1:N:88:LEU:HD21	1:N:130:ILE:HG12	1.66	0.76
3:P:770:LEU:O	3:P:774:ILE:HG13	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1348:LYS:HA	3:D:1351:VAL:CG2	2.15	0.76
3:D:1348:LYS:O	3:D:1351:VAL:HB	1.86	0.76
1:N:47:LEU:O	1:N:51:MET:CG	2.33	0.76
3:J:620:PHE:O	3:J:624:ILE:HD12	1.86	0.76
3:P:1190:ILE:HG22	3:P:1191:PRO:O	1.84	0.76
1:B:75:GLN:HG3	1:B:134:THR:CG2	2.16	0.76
2:O:802:VAL:CG2	2:O:1096:ILE:HB	2.14	0.76
3:D:116:PHE:O	3:D:124:ILE:CD1	2.33	0.76
3:P:1080:ILE:HB	3:P:1097:ALA:HB3	1.67	0.76
3:D:809:VAL:HB	3:D:912:GLY:H	1.50	0.76
1:M:39:LEU:N	1:M:39:LEU:HD23	1.99	0.76
4:E:39:VAL:CG1	4:E:40:PRO:CD	2.51	0.76
2:C:402:ARG:HG2	2:C:416:GLY:CA	2.10	0.76
3:J:242:LEU:HD12	3:J:243:PRO:CD	2.10	0.76
1:A:30:PRO:HB2	1:A:198:LEU:HD22	1.66	0.76
5:R:392:LYS:HA	5:R:395:THR:CG2	2.13	0.76
2:C:112:GLY:O	2:C:114:VAL:N	2.17	0.76
3:J:805:GLN:HB2	3:J:1347:LEU:CD1	2.15	0.76
2:C:1199:LEU:HD23	2:C:1204:LEU:HD13	1.68	0.76
2:O:537:GLY:C	2:O:538:LEU:HD23	2.06	0.76
3:J:795:TYR:OH	3:J:1326:GLN:NE2	2.19	0.76
2:I:1270:PHE:HB2	3:J:347:VAL:HG21	1.68	0.76
3:P:259:ARG:HH12	5:R:502:LYS:HG2	1.50	0.76
2:C:367:TYR:HD1	2:C:384:LEU:HD22	1.49	0.76
1:M:225:ALA:HB2	1:N:228:LEU:HD12	1.68	0.76
5:L:598:LEU:HD23	5:L:598:LEU:N	2.01	0.76
1:B:88:LEU:HD11	1:B:128:HIS:CB	2.15	0.76
3:D:483:LEU:HD21	4:E:16:ARG:HB3	1.68	0.76
2:C:1334:GLY:O	3:D:25:ALA:CB	2.34	0.76
1:B:48:LEU:HD21	1:B:183:ILE:CG2	2.16	0.76
1:B:75:GLN:HG3	1:B:134:THR:HG23	1.67	0.76
5:R:120:ALA:HA	5:R:123:ILE:HD12	1.67	0.76
1:N:107:ILE:HD11	1:N:136:GLU:OE1	1.85	0.76
6:7:47:DC:H4'	6:7:48:DA:OP1	1.85	0.76
2:I:883:LEU:HD21	2:I:920:VAL:HG23	1.66	0.76
2:I:698:PRO:HB3	2:I:1069:ARG:HH22	1.48	0.76
3:D:1080:ILE:HD11	3:D:1121:LEU:HD11	1.68	0.76
3:P:126:LEU:HD22	3:P:216:LYS:NZ	2.00	0.76
3:J:1217:PRO:HB2	3:J:1306:LEU:HD21	1.68	0.76
2:I:232:ILE:CD1	2:I:326:SER:HB3	2.15	0.76
2:C:448:LEU:HG	2:C:553:THR:CB	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:726:TYR:HB3	2:O:733:VAL:HG22	1.68	0.76
1:M:100:LEU:HD22	1:M:115:ILE:HG21	1.66	0.76
2:C:253:PHE:HB2	2:C:288:PRO:HG2	1.68	0.76
4:K:26:ARG:O	4:K:30:MET:HG3	1.86	0.76
2:O:13:LYS:HB2	2:O:1149:TYR:CE1	2.20	0.76
2:I:390:PHE:CD2	2:I:390:PHE:N	2.54	0.76
2:C:311:CYS:SG	2:C:325:LEU:HD21	2.26	0.76
1:B:217:ILE:HD12	1:B:217:ILE:N	1.98	0.76
3:D:1261:LEU:CD1	3:D:1304:ARG:HD2	2.16	0.76
3:D:363:LEU:CG	3:D:487:THR:HG22	2.16	0.76
3:D:835:LEU:CG	3:D:836:ARG:N	2.48	0.76
5:L:166:VAL:HG12	5:L:168:PRO:CD	2.16	0.76
3:P:697:MET:SD	3:P:741:ALA:HB3	2.26	0.76
2:O:702:THR:HG22	2:O:1184:THR:O	1.85	0.76
3:J:24:LEU:HD13	3:J:237:MET:HE1	1.68	0.75
3:P:739:GLN:HE21	3:P:744:ARG:CG	1.99	0.75
3:J:843:VAL:HB	3:J:897:HIS:O	1.85	0.75
2:I:165:HIS:CE1	2:I:190:PRO:HB3	2.20	0.75
3:D:1287:ILE:CG2	3:D:1288:ALA:N	2.39	0.75
5:L:548:LEU:HD23	5:L:551:LEU:HD11	1.67	0.75
3:P:673:VAL:CG1	3:P:678:ARG:HB2	2.15	0.75
2:O:1252:SER:HA	2:O:1259:LEU:HD21	1.68	0.75
3:P:601:ILE:O	3:P:605:LEU:HG	1.86	0.75
5:F:117:ILE:HG23	5:F:421:TYR:HB2	1.68	0.75
2:C:892:GLU:OE2	3:D:69:GLU:OE2	2.04	0.75
2:C:714:VAL:HG11	2:C:787:PRO:HD2	1.67	0.75
2:C:448:LEU:HG	2:C:553:THR:OG1	1.85	0.75
3:P:1145:PHE:O	3:P:1309:ILE:HG13	1.87	0.75
3:D:1145:PHE:CE1	3:D:1256:ILE:CD1	2.65	0.75
2:C:577:VAL:HG23	2:C:661:VAL:O	1.86	0.75
5:F:401:PHE:HA	5:F:404:LEU:HD12	1.68	0.75
5:R:434:TRP:CE2	6:7:36:DT:H72	2.21	0.75
5:R:370:ALA:HA	5:R:373:ARG:NH1	2.00	0.75
3:P:139:LEU:HD23	3:P:185:ILE:HD11	1.61	0.75
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.12	0.75
5:L:381:GLU:O	5:L:384:LEU:HG	1.86	0.75
3:J:826:ILE:HG21	3:J:994:SER:HB3	1.66	0.75
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.68	0.75
5:L:580:PHE:O	5:L:581:ASP:HB2	1.85	0.75
2:I:761:GLN:O	2:I:762:ASN:HB2	1.86	0.75
3:J:447:ILE:H	3:J:447:ILE:HD12	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:44:ARG:CA	1:M:47:LEU:HD12	2.13	0.75
3:P:795:TYR:O	3:P:799:ARG:HG3	1.85	0.75
1:N:102:LEU:CD1	1:N:114:ASP:HB3	2.14	0.75
3:D:371:LYS:O	3:D:374:LEU:HD23	1.85	0.75
2:C:550:VAL:HG23	3:D:780:ARG:HD2	1.68	0.75
5:L:386:LEU:HB2	6:4:41:DT:O2	1.86	0.75
1:N:219:ARG:O	1:N:223:ILE:HG13	1.86	0.75
3:J:703:THR:O	3:J:718:SER:HB3	1.87	0.75
3:D:551:ARG:O	3:D:552:ILE:HD13	1.87	0.75
2:O:1107:MET:HG2	3:P:740:LEU:HD11	1.69	0.75
5:R:607:LEU:HA	5:R:610:PHE:HD2	1.51	0.75
2:I:1243:MET:HA	3:J:372:MET:HE3	1.69	0.75
5:F:520:GLY:HA2	5:F:523:ILE:HD11	1.68	0.75
3:J:135:ILE:O	3:J:139:LEU:HG	1.87	0.75
2:C:1292:THR:HG23	2:C:1293:VAL:H	1.51	0.75
5:L:455:HIS:HD2	5:L:455:HIS:H	1.29	0.75
2:O:375:PRO:HA	5:R:87:VAL:HG22	1.66	0.75
3:D:245:LEU:HD12	3:D:246:PRO:HD2	1.69	0.75
2:O:685:MET:HE1	2:O:1073:LYS:HB3	1.68	0.75
5:L:145:LEU:HD13	5:L:225:ARG:HH11	1.52	0.75
2:I:1278:LEU:CD2	2:I:1283:ALA:HB3	2.16	0.75
3:D:974:VAL:HG11	3:D:1028:ILE:HG21	1.69	0.75
2:I:1101:LEU:HD11	3:J:508:LEU:HD22	1.68	0.75
2:C:708:VAL:HG11	2:C:794:LEU:CD2	2.16	0.75
3:D:1344:LEU:HA	3:D:1349:GLU:OE1	1.86	0.75
2:O:178:PRO:HB3	2:O:395:TYR:CZ	2.22	0.75
3:D:1284:ARG:HA	3:D:1287:ILE:HD12	1.67	0.75
3:D:909:ILE:CD1	3:D:910:ASN:O	2.33	0.75
2:I:21:VAL:HG11	2:I:592:ARG:HD3	1.69	0.75
3:P:805:GLN:CB	3:P:1347:LEU:HD12	2.16	0.75
3:D:492:SER:OG	3:D:495:ASN:O	2.04	0.75
1:G:42:ALA:HA	1:H:38:THR:HG23	1.69	0.75
1:H:27:THR:HG22	1:H:202:VAL:HG13	1.67	0.75
3:J:502:PRO:HG2	3:J:601:ILE:CG2	2.16	0.75
1:A:179:PRO:HA	1:A:208:ASN:HD21	1.52	0.75
2:O:1243:MET:HG3	3:P:372:MET:CE	2.16	0.75
2:C:1281:TYR:OH	3:D:431:ARG:O	2.04	0.75
2:O:1142:ARG:HH12	2:O:1169:VAL:CG2	2.00	0.75
2:O:1286:THR:OG1	3:P:479:GLU:OE2	2.01	0.75
1:M:13:LEU:HA	1:M:28:LEU:HD22	1.69	0.75
2:I:120:GLN:HG2	2:I:489:PRO:HG2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:519:LEU:O	5:R:519:LEU:HD12	1.86	0.75
3:P:1262:ARG:NH1	3:P:1316:THR:HG22	2.01	0.75
3:D:915:ILE:O	3:D:918:ILE:HG22	1.86	0.75
2:O:227:LYS:HD3	2:O:334:GLU:OE2	1.87	0.75
2:I:594:VAL:HG22	2:I:599:VAL:HG13	1.69	0.75
2:I:1035:LYS:O	2:I:1036:ILE:HG13	1.86	0.75
2:I:1101:LEU:HD11	3:J:508:LEU:CD2	2.16	0.75
1:G:156:SER:O	1:G:159:ILE:HG22	1.86	0.75
3:J:823:THR:HG22	3:J:879:ALA:CB	2.16	0.74
3:J:1101:LEU:HD22	3:J:1122:ALA:HB2	1.68	0.74
3:J:1040:MET:CE	3:J:1046:ILE:HG21	2.17	0.74
2:I:558:VAL:HG22	2:I:574:SER:O	1.87	0.74
2:I:1134:GLN:O	2:I:1136:GLN:N	2.19	0.74
3:J:233:LYS:CG	3:J:234:PRO:HD2	2.17	0.74
3:D:485:MET:HG3	3:D:487:THR:OG1	1.87	0.74
2:O:232:ILE:HG21	2:O:326:SER:HB3	1.68	0.74
3:D:26:SER:HB3	3:D:29:MET:HB2	1.68	0.74
1:N:38:THR:CB	1:N:39:LEU:CD2	2.63	0.74
2:I:187:GLU:O	2:I:194:LEU:CD1	2.33	0.74
3:D:282:LEU:HD21	5:F:410:ILE:CG1	2.17	0.74
3:D:369:PRO:HG2	3:D:372:MET:CE	2.18	0.74
1:A:185:TYR:O	1:A:185:TYR:CD2	2.40	0.74
3:P:709:ARG:HG3	3:P:709:ARG:O	1.84	0.74
2:O:1309:VAL:HG13	3:P:383:GLY:HA2	1.69	0.74
1:M:43:LEU:HD13	1:M:203:ILE:CD1	2.16	0.74
2:O:188:PHE:CE2	2:O:432:LEU:HD11	2.21	0.74
2:O:298:ALA:N	2:O:334:GLU:O	2.19	0.74
3:D:1280:VAL:CG1	3:D:1281:GLU:N	2.51	0.74
3:P:611:ILE:HG22	3:P:612:LEU:HD23	1.69	0.74
3:D:848:VAL:CG2	3:D:880:VAL:HG11	2.17	0.74
2:C:953:LEU:HD22	2:C:957:LYS:HE3	1.67	0.74
2:C:1161:LEU:CD1	2:C:1164:PHE:HB2	2.16	0.74
3:J:406:ALA:HA	3:J:409:TRP:HD1	1.50	0.74
2:I:237:LEU:HD12	2:I:289:VAL:CG2	2.10	0.74
1:A:47:LEU:CD1	1:A:183:ILE:HD12	2.17	0.74
1:A:44:ARG:HA	1:A:47:LEU:CD1	2.17	0.74
3:P:1229:VAL:O	3:P:1233:ILE:HG13	1.86	0.74
4:E:53:GLU:HB3	4:E:59:ILE:HG13	1.67	0.74
3:J:864:LEU:HD13	3:J:872:LEU:HD11	1.69	0.74
1:H:60:GLU:O	1:H:142:MET:HB2	1.87	0.74
3:J:875:ASN:O	3:J:876:SER:HB2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:VAL:HA	1:G:207:THR:HG22	1.69	0.74
3:J:355:ILE:O	3:J:355:ILE:HG13	1.87	0.74
3:P:138:VAL:HG12	3:P:139:LEU:CD2	2.16	0.74
3:J:490:ILE:HD11	3:J:614:LEU:HD11	1.69	0.74
1:M:38:THR:CG2	1:N:42:ALA:CB	2.66	0.74
1:A:192:VAL:CB	1:A:195:ARG:O	2.34	0.74
2:I:988:LYS:HZ2	2:I:992:LEU:HD12	1.52	0.74
2:I:1111:GLN:HB2	2:I:1230:MET:CE	2.17	0.74
1:N:99:ILE:HG12	1:N:145:LYS:HE2	1.69	0.74
2:I:674:ASP:O	3:J:772:TYR:HE1	1.70	0.74
3:D:502:PRO:HG2	3:D:601:ILE:HD13	1.69	0.74
3:J:1266:ILE:HD12	3:J:1278:GLU:CB	2.18	0.74
1:B:124:VAL:CG2	1:B:210:THR:HG23	2.18	0.74
3:D:1260:MET:O	3:D:1307:LEU:HG	1.86	0.74
3:J:1280:VAL:HG12	3:J:1281:GLU:N	2.03	0.74
3:J:584:PRO:HD3	3:J:620:PHE:CD1	2.23	0.74
3:J:160:LEU:HD23	3:J:164:GLN:HB3	1.68	0.74
2:C:854:ILE:HD12	2:C:862:LEU:CD2	2.18	0.74
3:D:475:GLU:OE2	4:E:28:ARG:NH2	2.21	0.74
3:D:363:LEU:HG	3:D:487:THR:CG2	2.17	0.74
2:I:201:ARG:CB	2:I:369:MET:HE1	2.14	0.74
2:C:559:CYS:SG	2:C:661:VAL:CG1	2.76	0.74
2:O:448:LEU:HD11	2:O:557:ARG:HD2	1.64	0.74
3:P:385:LEU:CD2	3:P:411:ILE:HD13	2.17	0.74
2:O:528:ARG:NH1	2:O:575:LEU:O	2.21	0.74
3:P:182:ALA:HA	3:P:185:ILE:HD12	1.69	0.74
2:I:1329:GLU:O	2:I:1333:LEU:HG	1.88	0.74
2:I:237:LEU:CD1	2:I:289:VAL:CG2	2.58	0.74
3:J:185:ILE:O	3:J:189:LEU:CD1	2.34	0.74
1:B:100:LEU:CD1	1:B:115:ILE:CG2	2.58	0.74
2:O:1161:LEU:HD11	2:O:1164:PHE:HB2	1.68	0.74
2:I:167:SER:HA	3:J:1064:SER:HB2	1.68	0.74
3:P:30:ILE:HA	3:P:33:TRP:CE3	2.23	0.74
7:8:18:DT:H2'	7:8:19:DA:H5''	1.69	0.74
3:J:431:ARG:HH21	3:J:904:ALA:CB	2.01	0.74
5:R:407:GLU:HG2	5:R:442:SER:CB	2.18	0.74
2:C:524:ILE:HD11	2:C:712:SER:CB	2.16	0.74
3:D:1346:GLY:C	3:D:1349:GLU:HG3	2.09	0.74
3:D:1138:LEU:HD23	3:D:1139:PRO:CG	2.18	0.74
3:P:497:GLU:HB3	3:P:498:PRO:CD	2.17	0.74
6:1:51:DC:C5	6:1:52:DT:H73	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1348:LYS:O	3:P:1352:ILE:HG13	1.87	0.74
4:E:60:ASN:OD1	4:E:61:ASN:N	2.21	0.74
2:I:674:ASP:O	3:J:772:TYR:CE1	2.41	0.74
2:I:890:LYS:NZ	2:I:893:THR:HG23	2.03	0.74
3:D:68:TYR:CE1	3:D:93:THR:HA	2.23	0.74
2:C:851:THR:HG22	2:C:852:ALA:N	2.02	0.74
2:O:758:ARG:HA	2:O:833:ILE:HD12	1.69	0.74
3:J:759:ILE:HG12	3:J:771:GLN:HG2	1.69	0.73
2:I:1151:LEU:HD22	2:I:1198:LEU:CD1	2.18	0.73
3:D:82:GLY:HA2	3:D:91:GLU:OE2	1.87	0.73
7:5:22:DA:H1'	7:5:23:DT:OP1	1.87	0.73
3:D:796:LEU:HD11	3:D:800:LEU:HD11	1.68	0.73
5:L:386:LEU:O	5:L:390:ILE:HG13	1.87	0.73
2:O:807:TRP:O	2:O:809:GLY:N	2.20	0.73
3:J:1266:ILE:HD12	3:J:1278:GLU:HB3	1.70	0.73
2:O:960:LEU:HB3	2:O:1025:PHE:CE1	2.23	0.73
2:C:56:VAL:HG21	2:C:468:LEU:HD13	1.70	0.73
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.70	0.73
3:P:646:ILE:HD11	3:P:765:GLU:HG3	1.67	0.73
3:D:770:LEU:O	3:D:774:ILE:HG13	1.87	0.73
5:F:554:ARG:NH2	6:1:13:DC:OP2	2.22	0.73
3:P:796:LEU:HA	3:P:799:ARG:HE	1.53	0.73
2:I:178:PRO:HA	2:I:397:LEU:HD23	1.70	0.73
3:D:79:LYS:HZ3	5:F:569:THR:CB	2.01	0.73
6:4:47:DC:H2'	6:4:48:DA:C8	2.23	0.73
2:O:1061:GLN:O	2:O:1076:ILE:HD12	1.86	0.73
1:H:158:ARG:HD2	1:H:172:LEU:HD11	1.69	0.73
5:F:110:LEU:H	5:F:110:LEU:HD12	1.53	0.73
3:D:109:SER:HB2	3:D:296:LYS:HE2	1.70	0.73
2:I:292:ILE:HG21	2:I:322:LEU:HD21	1.68	0.73
3:D:281:ARG:HH22	5:F:441:ARG:CZ	2.01	0.73
5:L:455:HIS:HE1	6:4:31:DT:C6	2.06	0.73
3:J:56:LEU:O	3:J:250:ARG:NH2	2.18	0.73
3:P:801:VAL:HG22	3:P:920:ALA:CB	2.14	0.73
2:I:498:ILE:HG22	2:I:499:SER:N	2.04	0.73
2:I:232:ILE:HD12	2:I:326:SER:HB3	1.70	0.73
7:5:45:DG:C2	7:5:46:DT:C2	2.77	0.73
3:P:371:LYS:O	3:P:374:LEU:HD23	1.88	0.73
2:O:856:ASN:ND2	5:R:613:ASP:O	2.20	0.73
1:N:156:SER:O	1:N:159:ILE:HG22	1.87	0.73
1:M:32:GLU:HG2	1:M:33:ARG:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:930:LEU:HD13	3:P:1134:ILE:HG13	1.68	0.73
3:D:181:GLY:C	3:D:185:ILE:HD11	2.09	0.73
2:C:1281:TYR:CZ	3:D:431:ARG:HG3	2.24	0.73
2:O:1087:TYR:O	2:O:1212:LEU:HD23	1.88	0.73
2:O:979:LEU:HD11	2:O:1000:LEU:HD21	1.71	0.73
3:J:1099:TYR:HE2	3:J:1195:GLN:NE2	1.86	0.73
5:R:604:SER:OG	5:R:607:LEU:HD12	1.88	0.73
1:N:44:ARG:NH1	3:P:538:ARG:HD2	2.00	0.73
3:D:620:PHE:O	3:D:624:ILE:CG1	2.35	0.73
3:J:475:GLU:N	3:J:475:GLU:OE1	2.18	0.73
4:Q:30:MET:HE2	4:Q:46:THR:HG22	1.68	0.73
3:D:261:ALA:HA	5:F:505:ILE:O	1.87	0.73
2:O:827:ARG:O	2:O:828:PHE:HB2	1.88	0.73
2:I:68:LEU:HD22	2:I:479:LEU:HD21	1.69	0.73
2:O:851:THR:HG22	2:O:852:ALA:H	1.53	0.73
5:F:457:ILE:HA	5:F:460:ILE:CD1	2.14	0.73
1:G:79:LEU:CA	1:G:82:LEU:HD12	2.15	0.73
3:D:1346:GLY:H	3:D:1349:GLU:CD	1.91	0.73
3:J:112:ALA:HA	3:J:238:ILE:CD1	2.18	0.73
2:I:5:TYR:HA	2:I:8:LYS:HD2	1.69	0.73
2:I:886:LYS:CD	2:I:916:SER:HB2	2.18	0.73
3:J:966:VAL:HG11	3:J:1030:GLU:HA	1.69	0.73
3:D:824:PRO:HD3	3:D:878:ASP:O	1.89	0.73
3:P:1274:PHE:O	3:P:1275:LEU:HB2	1.87	0.73
5:F:493:LYS:HE3	5:F:497:VAL:HG23	1.69	0.73
1:G:234:LEU:HG	1:H:13:LEU:HD23	1.70	0.73
2:C:1278:LEU:HD21	2:C:1286:THR:CB	2.18	0.73
3:P:771:GLN:O	3:P:774:ILE:HB	1.88	0.73
2:O:1086:PRO:O	2:O:1094:VAL:CG2	2.34	0.73
7:5:25:DA:H1'	7:5:26:DT:C5'	2.15	0.73
5:L:407:GLU:HG2	5:L:442:SER:HB3	1.71	0.73
2:C:255:ILE:CD1	2:C:285:ILE:HD13	2.18	0.73
3:D:519:ASN:O	3:D:523:GLU:HB2	1.88	0.73
3:D:563:LEU:HD22	3:D:586:GLY:HA2	1.69	0.73
3:D:673:VAL:CG1	3:D:678:ARG:HB2	2.18	0.73
3:D:464:ASP:CG	8:3:15:G:O2'	2.28	0.73
3:D:478:LEU:HB3	4:E:20:VAL:CG1	2.19	0.73
3:P:425:ARG:CD	3:P:457:TYR:HB3	2.17	0.73
5:L:451:ARG:NH1	5:L:453:PRO:CG	2.48	0.73
2:O:371:ARG:CB	5:R:99:ARG:NH2	2.52	0.73
3:P:265:LEU:HD21	3:P:326:SER:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:147:ILE:HD11	3:D:179:LYS:N	2.04	0.73
3:J:518:VAL:HG12	3:J:519:ASN:OD1	1.88	0.73
2:O:519:ASN:OD1	2:O:522:SER:HB2	1.89	0.73
2:O:975:ILE:HG23	2:O:1011:LEU:HD11	1.69	0.73
3:J:72:CYS:SG	3:J:87:LYS:HD3	2.29	0.73
3:J:128:LEU:CD1	3:J:189:LEU:HD21	2.13	0.73
3:P:421:VAL:HG23	3:P:439:PRO:HG2	1.71	0.73
3:D:843:VAL:HG12	3:D:883:ARG:HB3	1.70	0.73
5:F:91:ILE:HG22	5:F:91:ILE:O	1.88	0.73
3:J:826:ILE:HG23	3:J:826:ILE:O	1.87	0.73
1:M:76:GLU:HB3	1:M:81:ILE:HG13	1.70	0.73
2:O:564:PRO:HB3	8:9:13:GTP:PA	2.29	0.73
2:I:444:ASP:O	2:I:450:ASN:ND2	2.22	0.73
3:J:584:PRO:HD3	3:J:620:PHE:CE1	2.22	0.73
5:L:216:LEU:O	5:L:220:LYS:CG	2.36	0.73
3:P:826:ILE:HG22	3:P:826:ILE:O	1.89	0.73
2:C:720:ARG:HD2	2:C:736:VAL:HG21	1.70	0.73
3:D:1302:TYR:CD1	3:D:1302:TYR:N	2.56	0.73
1:A:86:LYS:HE3	1:A:173:VAL:CG1	2.18	0.73
2:C:448:LEU:CD1	2:C:553:THR:O	2.28	0.72
1:B:67:GLU:HB3	1:B:171:LEU:HD22	1.71	0.72
2:C:1275:VAL:HG21	3:D:343:LEU:O	1.89	0.72
3:J:805:GLN:HB3	3:J:1347:LEU:HD12	1.71	0.72
2:I:165:HIS:HB2	2:I:168:GLY:HA2	1.71	0.72
2:C:1151:LEU:HD22	2:C:1198:LEU:CD1	2.16	0.72
4:K:60:ASN:CB	4:K:63:ILE:HD12	2.19	0.72
2:C:90:VAL:CG1	2:C:91:THR:N	2.52	0.72
2:C:1334:GLY:C	2:C:1335:ILE:HD12	2.09	0.72
5:R:414:LYS:HD3	5:R:434:TRP:CZ3	2.24	0.72
2:C:750:ILE:HG12	2:C:750:ILE:O	1.89	0.72
1:A:69:SER:O	1:A:78:ILE:HG13	1.89	0.72
2:C:519:ASN:HD22	2:C:796:LEU:HD22	1.53	0.72
2:I:319:LEU:CA	2:I:322:LEU:HD12	2.18	0.72
2:I:91:THR:HG23	2:I:137:VAL:O	1.88	0.72
2:I:165:HIS:HB3	2:I:168:GLY:H	1.54	0.72
3:D:814:CYS:HB2	3:D:889:ASP:HB3	1.69	0.72
2:C:1199:LEU:HD22	2:C:1204:LEU:CD1	2.19	0.72
3:D:795:TYR:O	3:D:799:ARG:HG3	1.89	0.72
2:O:848:GLU:HG2	2:O:888:THR:HG23	1.71	0.72
5:R:517:SER:CB	5:R:521:ASP:HB2	2.19	0.72
2:I:1284:ALA:HA	3:J:1357:ILE:HD11	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:448:LEU:HD11	2:C:553:THR:C	2.09	0.72
3:P:449:LEU:HD12	3:P:450:HIS:H	1.54	0.72
4:E:39:VAL:HG13	4:E:40:PRO:CG	2.20	0.72
2:O:811:ASN:ND2	2:O:1099:ASN:HA	2.04	0.72
1:M:8:PHE:CE2	1:N:223:ILE:HG12	2.22	0.72
2:O:1068:GLY:HA2	2:O:1232:MET:HE2	1.71	0.72
3:P:261:ALA:HB2	5:R:519:LEU:CD2	2.19	0.72
2:O:886:LYS:N	2:O:917:SER:OG	2.19	0.72
2:I:39:ILE:HG22	2:I:39:ILE:O	1.87	0.72
3:J:662:ALA:HA	3:J:665:GLN:OE1	1.89	0.72
3:D:185:ILE:O	3:D:189:LEU:HG	1.89	0.72
5:R:583:THR:HG21	5:R:586:ARG:HB2	1.67	0.72
1:G:81:ILE:O	1:G:85:LEU:HG	1.89	0.72
1:G:232:VAL:CG1	1:H:218:ARG:HG2	2.15	0.72
5:L:478:PRO:HB2	5:L:483:LEU:HD22	1.70	0.72
1:A:57:THR:HG21	1:A:158:ARG:NH2	2.04	0.72
5:L:572:THR:O	5:L:576:VAL:HG23	1.90	0.72
2:C:1327:LEU:HD23	2:C:1337:ILE:CD1	2.12	0.72
2:O:56:VAL:HG13	2:O:472:GLU:OE1	1.89	0.72
2:C:550:VAL:CG2	3:D:780:ARG:HD2	2.19	0.72
2:O:16:GLY:O	2:O:1156:ARG:HB3	1.88	0.72
3:J:26:SER:HB3	3:J:29:MET:HB2	1.71	0.72
2:C:952:GLN:OE1	2:C:1036:ILE:HG23	1.90	0.72
2:C:144:VAL:HG23	2:C:515:MET:HB2	1.70	0.72
2:C:1327:LEU:CA	2:C:1337:ILE:HD13	2.18	0.72
4:E:53:GLU:HB3	4:E:59:ILE:CG1	2.19	0.72
1:N:102:LEU:HD11	1:N:114:ASP:CB	2.18	0.72
4:Q:26:ARG:O	4:Q:30:MET:HG3	1.88	0.72
5:L:84:LEU:CD1	5:L:107:THR:HG21	2.20	0.72
3:D:880:VAL:HG13	3:D:881:LYS:H	1.54	0.72
3:D:147:ILE:CG1	3:D:178:ALA:HA	2.19	0.72
2:I:745:GLU:HG3	2:I:746:ALA:O	1.89	0.72
2:I:183:TRP:CH2	6:4:48:DA:N6	2.56	0.72
1:N:18:GLN:OE1	1:N:213:PRO:HG2	1.88	0.72
4:K:15:ASN:HB3	4:K:18:ASP:HB2	1.70	0.72
2:I:757:THR:O	2:I:833:ILE:HD12	1.90	0.72
5:F:271:ASN:O	5:F:275:VAL:HG23	1.89	0.72
1:N:32:GLU:HB3	1:N:35:PHE:HD2	1.55	0.72
3:J:1229:VAL:O	3:J:1233:ILE:HG13	1.90	0.72
3:D:432:LEU:HD11	3:D:499:ILE:CD1	2.18	0.72
2:C:75:LEU:CD2	2:C:94:ALA:HB1	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:421:VAL:HG12	3:J:422:LEU:N	2.05	0.72
2:O:376:PRO:HD3	5:R:87:VAL:HG22	1.70	0.72
3:J:1270:GLY:H	3:J:1274:PHE:HD2	1.34	0.72
2:I:335:THR:HG22	2:I:336:LEU:N	2.04	0.72
2:O:431:LYS:O	2:O:435:ILE:HG13	1.89	0.72
2:O:406:ASN:ND2	2:O:413:GLU:OE1	2.23	0.72
2:I:310:ILE:HD13	2:I:324:LYS:HB3	1.71	0.72
5:F:580:PHE:O	5:F:581:ASP:HB2	1.89	0.72
1:A:224:LEU:CD1	1:A:224:LEU:O	2.38	0.72
1:N:56:VAL:HA	1:N:146:VAL:HG22	1.72	0.72
3:P:419:HIS:O	3:P:439:PRO:HD3	1.90	0.72
2:I:799:ASN:O	2:I:827:ARG:NH2	2.22	0.72
3:D:116:PHE:O	3:D:124:ILE:CG1	2.38	0.72
3:D:339:ARG:HH12	3:D:798:ARG:CZ	2.03	0.72
2:C:1327:LEU:CD2	2:C:1337:ILE:HD11	2.11	0.72
3:D:885:VAL:HG12	3:D:886:VAL:HG22	1.72	0.72
3:P:844:THR:HG22	3:P:882:VAL:HB	1.71	0.72
3:D:1194:ARG:HH11	3:D:1211:SER:HB3	1.54	0.72
1:M:13:LEU:HD13	1:M:28:LEU:CD2	2.19	0.72
5:F:295:CYS:O	5:F:296:LYS:CB	2.37	0.72
5:R:119:ILE:HG23	5:R:375:ALA:HB1	1.70	0.72
5:R:220:LYS:HE3	5:R:259:PHE:CE1	2.25	0.72
1:H:9:LEU:HD21	1:H:30:PRO:HG2	1.72	0.72
2:I:1271:GLY:O	2:I:1275:VAL:HG23	1.90	0.72
3:P:499:ILE:HG22	3:P:500:ILE:N	2.03	0.72
2:O:255:ILE:HD12	2:O:263:VAL:HB	1.72	0.72
3:D:822:MET:HG2	3:D:838:ARG:NH2	2.03	0.72
2:I:851:THR:HG22	2:I:853:ASP:H	1.55	0.72
2:C:878:THR:HG22	2:C:879:GLY:N	2.05	0.72
3:D:1282:TYR:C	3:D:1285:VAL:HG12	2.06	0.71
1:M:224:LEU:HD21	1:N:228:LEU:HG	1.71	0.71
3:D:133:ARG:O	3:D:136:GLU:HB2	1.89	0.71
3:J:1287:ILE:CG2	3:J:1288:ALA:N	2.52	0.71
2:I:886:LYS:HD2	2:I:916:SER:HB2	1.71	0.71
2:I:539:THR:HG22	2:I:540:ARG:H	1.54	0.71
2:O:467:GLY:O	2:O:471:VAL:HG23	1.90	0.71
2:I:1159:VAL:O	2:I:1159:VAL:HG12	1.89	0.71
3:D:115:TRP:CE3	3:D:1333:THR:HG23	2.25	0.71
5:F:452:ILE:CG2	5:F:457:ILE:CD1	2.67	0.71
1:B:61:ILE:CD1	1:B:64:VAL:HG11	2.18	0.71
3:D:351:GLY:C	3:D:468:VAL:HG23	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:726:TYR:N	2:O:733:VAL:HG22	2.05	0.71
3:D:840:LEU:CD1	3:D:869:CYS:SG	2.78	0.71
2:I:120:GLN:HG2	2:I:489:PRO:CG	2.21	0.71
3:P:587:LEU:CD2	3:P:612:LEU:HD21	2.20	0.71
3:J:423:LEU:HD23	3:J:423:LEU:N	2.04	0.71
4:Q:46:THR:HA	4:Q:49:ILE:HD12	1.72	0.71
3:P:749:LYS:HB3	3:P:750:PRO:CD	2.19	0.71
3:D:435:GLN:NE2	3:D:486:SER:HA	2.05	0.71
2:C:28:LEU:HD13	2:C:527:LYS:HD2	1.72	0.71
2:I:525:THR:CG2	2:I:687:ARG:HD3	2.20	0.71
2:C:196:VAL:CG2	2:C:206:ALA:HA	2.20	0.71
2:O:564:PRO:CB	8:9:13:GTP:O2A	2.39	0.71
2:I:1278:LEU:HD11	2:I:1286:THR:HB	1.71	0.71
1:H:166:ARG:HH12	1:H:172:LEU:HD22	1.53	0.71
2:I:255:ILE:HG23	2:I:285:ILE:HD13	1.72	0.71
5:L:376:LYS:O	5:L:380:VAL:HG23	1.91	0.71
1:A:46:ILE:CD1	1:A:224:LEU:HB2	2.21	0.71
1:G:11:PRO:O	1:H:230:ALA:CB	2.37	0.71
2:O:178:PRO:HG3	2:O:395:TYR:CE1	2.25	0.71
3:J:826:ILE:CG2	3:J:994:SER:HB3	2.20	0.71
2:O:292:ILE:CG2	2:O:322:LEU:HD11	2.17	0.71
3:D:452:LEU:CD1	3:D:625:MET:SD	2.78	0.71
5:L:491:GLU:O	5:L:494:ILE:HB	1.89	0.71
3:J:811:GLU:O	3:J:895:CYS:HA	1.90	0.71
3:P:275:ARG:HG2	3:P:278:ARG:HH22	1.55	0.71
2:C:177:ILE:HG23	2:C:183:TRP:HE1	1.55	0.71
1:B:74:VAL:O	1:B:74:VAL:HG12	1.90	0.71
3:D:115:TRP:HE3	3:D:1333:THR:CG2	2.03	0.71
5:F:583:THR:CG2	5:F:587:ILE:CD1	2.68	0.71
2:I:295:LYS:O	2:I:317:LEU:HD12	1.90	0.71
2:O:162:GLY:O	2:O:163:LYS:HB3	1.89	0.71
6:7:34:DG:N2	7:8:29:DC:O2	2.24	0.71
3:J:771:GLN:CA	3:J:774:ILE:HD12	2.14	0.71
1:A:38:THR:CG2	1:B:42:ALA:CA	2.63	0.71
3:D:453:VAL:CG1	3:D:500:ILE:HD13	2.21	0.71
3:D:609:TYR:HA	3:D:617:THR:HG21	1.71	0.71
2:I:164:THR:O	2:I:165:HIS:HB2	1.90	0.71
3:J:62:PHE:CB	3:J:98:ARG:HG2	2.13	0.71
2:O:564:PRO:HB3	8:9:13:GTP:O2A	1.91	0.71
3:P:1251:LYS:O	3:P:1255:VAL:HG23	1.90	0.71
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:402:LEU:HA	5:R:405:ILE:HD12	1.71	0.71
2:I:34:SER:O	2:I:37:LYS:HB2	1.91	0.71
2:O:720:ARG:HD2	2:O:736:VAL:HG21	1.73	0.71
1:G:24:ALA:HB3	1:G:213:PRO:HB3	1.70	0.71
2:O:150:HIS:CE1	2:O:454:ARG:HG3	2.25	0.71
5:F:461:ASN:N	5:F:461:ASN:OD1	2.21	0.71
2:C:1253:LEU:HD12	5:F:525:ASP:HB2	1.73	0.71
5:F:84:LEU:CG	5:F:107:THR:CG2	2.69	0.71
3:P:580:TRP:CZ3	3:P:583:VAL:HG11	2.26	0.71
2:I:686:GLN:NE2	2:I:1069:ARG:CG	2.53	0.71
5:F:489:MET:HB3	5:F:490:PRO:HD2	1.73	0.71
6:7:26:DT:H2"	6:7:27:DC:OP2	1.91	0.71
3:D:1090:ILE:HG23	3:D:1091:PRO:HD2	1.72	0.71
3:P:974:VAL:HG11	3:P:1028:ILE:HG21	1.73	0.71
5:R:110:LEU:HD21	5:R:385:ARG:HD2	1.72	0.71
2:O:295:LYS:HD2	2:O:335:THR:HG23	1.72	0.71
2:C:13:LYS:HE3	2:C:1149:TYR:O	1.90	0.71
1:G:142:MET:SD	1:G:144:ILE:HD11	2.31	0.71
3:J:111:THR:OG1	3:J:300:GLN:OE1	2.08	0.71
1:N:13:LEU:HD12	1:N:28:LEU:HD23	1.72	0.71
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.23	0.71
2:O:533:LEU:HD21	2:O:571:LEU:HD13	1.73	0.71
3:P:210:SER:HB3	3:P:213:LYS:HD2	1.70	0.71
2:O:90:VAL:CG1	2:O:91:THR:H	2.02	0.71
3:J:190:LYS:HD2	3:J:235:GLU:OE2	1.91	0.71
3:J:135:ILE:HG22	3:J:139:LEU:HD11	1.73	0.71
3:D:490:ILE:HD12	3:D:490:ILE:N	2.05	0.71
2:O:1237:HIS:ND1	2:O:1242:LYS:NZ	2.37	0.71
2:I:183:TRP:HZ3	6:4:47:DC:H42	1.37	0.71
3:D:875:ASN:O	3:D:876:SER:HB2	1.90	0.71
3:J:245:LEU:HD12	3:J:246:PRO:HD2	1.71	0.71
3:J:909:ILE:HD11	3:J:913:GLU:CB	2.14	0.71
3:D:842:ARG:O	3:D:864:LEU:HG	1.91	0.71
3:D:840:LEU:HD12	3:D:869:CYS:SG	2.31	0.71
2:C:255:ILE:HG12	2:C:285:ILE:HG21	1.73	0.71
3:D:611:ILE:HG22	3:D:612:LEU:HD23	1.73	0.71
3:J:422:LEU:C	3:J:423:LEU:HD23	2.11	0.71
3:J:584:PRO:HD2	3:J:620:PHE:CZ	2.25	0.71
2:C:706:ARG:O	2:C:710:VAL:HG23	1.91	0.71
2:O:73:TYR:CB	2:O:98:VAL:HG22	2.21	0.71
3:P:1130:GLY:O	3:P:1131:THR:HG23	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:297:MET:HB2	5:L:326:TRP:CZ3	2.25	0.71
1:A:40:GLY:O	1:A:43:LEU:HB2	1.91	0.70
3:P:1138:LEU:HD23	3:P:1139:PRO:HG3	1.72	0.70
2:I:169:LYS:HD3	3:J:1067:ARG:O	1.90	0.70
1:M:38:THR:CG2	1:N:42:ALA:HA	2.14	0.70
2:C:797:GLY:CA	2:C:1233:LEU:CD2	2.68	0.70
2:O:1184:THR:O	2:O:1184:THR:HG23	1.90	0.70
2:O:1056:VAL:CG1	2:O:1058:ARG:HG3	2.21	0.70
5:R:607:LEU:HA	5:R:610:PHE:CD2	2.26	0.70
5:F:289:LYS:HE3	5:F:290:LEU:HG	1.73	0.70
2:O:167:SER:HA	3:P:1064:SER:HB2	1.73	0.70
1:N:193:GLU:O	1:N:194:GLN:HB2	1.91	0.70
2:O:1227:VAL:HG12	2:O:1228:GLY:N	2.05	0.70
3:J:946:ALA:O	3:J:948:SER:N	2.23	0.70
3:J:115:TRP:CZ3	3:J:1329:THR:HA	2.24	0.70
5:F:132:CYS:SG	5:F:257:LYS:CD	2.78	0.70
2:O:333:ILE:CG2	2:O:334:GLU:H	2.02	0.70
3:P:644:MET:O	3:P:764:ARG:NH1	2.24	0.70
3:J:423:LEU:HB3	3:J:466:MET:HE2	1.74	0.70
5:F:514:ASP:O	5:F:516:ASP:HB2	1.91	0.70
3:P:930:LEU:HD11	3:P:1244:GLN:HG3	1.73	0.70
3:P:976:THR:HG21	3:P:1030:GLU:HG2	1.71	0.70
1:G:104:LYS:HG2	1:G:110:VAL:HG22	1.72	0.70
2:I:822:VAL:HG11	2:I:1060:ILE:HD13	1.71	0.70
5:R:503:GLU:CB	5:R:504:PRO:HD2	2.21	0.70
5:F:458:GLU:O	5:F:462:LYS:HG3	1.90	0.70
3:J:1226:VAL:HG21	3:J:1304:ARG:NH2	2.05	0.70
3:D:898:CYS:SG	10:D:1502:ZN:ZN	1.80	0.70
2:C:1077:SER:HA	3:D:356:THR:HG21	1.72	0.70
3:P:116:PHE:CD2	3:P:237:MET:SD	2.85	0.70
1:N:67:GLU:O	1:N:78:ILE:HB	1.91	0.70
3:P:997:VAL:HG13	3:P:1001:ALA:HB3	1.72	0.70
2:I:950:GLU:HA	2:I:953:LEU:HD12	1.73	0.70
6:7:28:DA:N6	7:8:34:DG:C6	2.59	0.70
3:J:971:GLY:O	3:J:972:LYS:HG3	1.90	0.70
3:P:1103:GLY:O	3:P:1104:LYS:HB2	1.91	0.70
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.73	0.70
2:I:319:LEU:HA	2:I:322:LEU:CD1	2.18	0.70
3:P:1146:GLU:CG	3:P:1309:ILE:HD12	2.21	0.70
2:O:1142:ARG:NH1	2:O:1169:VAL:HG21	2.06	0.70
1:H:190:ALA:N	1:H:199:ASP:HA	2.02	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1304:MET:O	2:I:1308:ILE:HG13	1.91	0.70
2:O:201:ARG:HB2	2:O:369:MET:HE2	1.73	0.70
3:D:1356:LEU:HD13	3:D:1365:TYR:HD1	1.56	0.70
1:H:28:LEU:HD11	1:H:31:LEU:HG	1.73	0.70
2:O:1227:VAL:HG12	2:O:1228:GLY:H	1.55	0.70
1:M:192:VAL:HG21	1:M:198:LEU:HD12	1.73	0.70
2:C:1110:GLY:HA2	2:C:1113:LEU:HD12	1.72	0.70
2:O:122:VAL:HG21	2:O:493:ILE:HD12	1.74	0.70
5:R:545:HIS:HA	5:R:548:LEU:HD12	1.72	0.70
1:M:45:ARG:HH12	2:O:1216:ARG:CA	2.03	0.70
1:B:221:ALA:HA	1:B:224:LEU:HD23	1.72	0.70
1:B:61:ILE:CD1	1:B:171:LEU:CD1	2.69	0.70
3:J:609:TYR:HA	3:J:617:THR:HG21	1.72	0.70
3:P:739:GLN:HE21	3:P:744:ARG:HG3	1.56	0.70
5:F:583:THR:HG21	5:F:586:ARG:HB3	1.72	0.70
3:J:909:ILE:HG12	3:J:910:ASN:H	1.55	0.70
3:P:643:ASP:O	3:P:722:ILE:HD12	1.91	0.70
3:P:259:ARG:NH2	5:R:502:LYS:HG2	2.05	0.70
3:D:322:ARG:NE	5:F:510:PRO:HD3	2.06	0.70
3:J:495:ASN:ND2	3:J:497:GLU:HB2	2.06	0.70
3:D:325:LYS:HG3	3:D:329:ASP:HB3	1.70	0.70
2:C:213:LEU:O	2:C:214:ASN:CB	2.39	0.70
3:J:115:TRP:CE3	3:J:1333:THR:HG23	2.26	0.70
2:C:196:VAL:HG23	2:C:206:ALA:HA	1.72	0.70
3:P:373:ALA:HA	3:P:376:LEU:CD1	2.17	0.70
3:D:614:LEU:O	3:D:617:THR:OG1	2.09	0.70
2:O:185:ASP:C	2:O:186:PHE:HD2	1.95	0.70
3:J:421:VAL:HG13	3:J:470:VAL:HA	1.72	0.70
3:P:363:LEU:HD23	3:P:618:VAL:HG13	1.72	0.70
2:C:533:LEU:HD23	2:C:538:LEU:O	1.92	0.70
1:M:8:PHE:CZ	1:N:223:ILE:HG12	2.26	0.70
3:D:872:LEU:HD23	3:D:875:ASN:HD22	1.57	0.70
3:J:1029:THR:CG2	3:J:1121:LEU:CD1	2.69	0.70
3:D:339:ARG:NH2	3:D:1325:PHE:O	2.24	0.70
2:O:741:MET:SD	2:O:747:GLY:HA3	2.32	0.70
3:P:1280:VAL:HG12	3:P:1281:GLU:H	1.55	0.70
5:R:295:CYS:O	5:R:296:LYS:HB2	1.91	0.70
2:C:1287:LEU:HG	2:C:1288:GLN:N	1.98	0.70
3:J:1167:LYS:O	3:J:1174:ARG:HB2	1.91	0.70
3:J:68:TYR:HA	3:J:92:VAL:HG13	1.72	0.70
2:I:90:VAL:HG12	2:I:91:THR:H	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:639:LYS:O	2:O:639:LYS:CG	2.33	0.70
2:O:402:ARG:HG2	2:O:416:GLY:CA	2.17	0.70
1:M:11:PRO:O	1:N:231:PHE:CZ	2.45	0.70
2:O:374:GLU:OE1	5:R:99:ARG:HD3	1.91	0.70
2:O:1049:ILE:HG22	2:O:1050:VAL:N	2.07	0.70
2:I:988:LYS:NZ	2:I:992:LEU:HD12	2.06	0.70
2:O:16:GLY:O	2:O:1156:ARG:CB	2.39	0.70
2:I:1314:GLN:HA	4:K:28:ARG:NH2	2.06	0.70
2:I:75:LEU:HD21	2:I:127:ILE:HD13	1.73	0.70
2:I:838:CYS:O	2:I:1049:ILE:HG23	1.92	0.70
1:B:166:ARG:HB2	1:B:166:ARG:CZ	2.22	0.70
3:D:349:TYR:O	3:D:470:VAL:CG2	2.37	0.70
3:D:363:LEU:CD2	3:D:487:THR:HG22	2.22	0.70
2:I:369:MET:HG3	2:I:370:MET:N	2.07	0.70
5:L:583:THR:CG2	5:L:586:ARG:HB3	2.21	0.70
5:R:520:GLY:HA2	5:R:523:ILE:CD1	2.22	0.70
3:D:615:LYS:HE2	4:E:4:VAL:HB	1.73	0.70
3:D:244:VAL:HG13	3:D:269:TYR:CE1	2.27	0.70
2:O:237:LEU:HD11	2:O:289:VAL:HG22	1.74	0.70
3:P:749:LYS:HG2	3:P:755:ILE:HG13	1.74	0.70
3:P:1348:LYS:HA	3:P:1351:VAL:HG21	1.72	0.70
2:I:149:LEU:CD1	2:I:451:ARG:HB3	2.21	0.70
2:C:805:MET:O	2:C:811:ASN:ND2	2.25	0.70
3:J:196:GLN:O	3:J:200:GLN:HG3	1.91	0.70
3:P:328:ALA:HA	3:P:331:ILE:HD12	1.73	0.70
5:F:416:VAL:HB	5:F:417:ASP:OD1	1.91	0.70
3:J:886:VAL:HG22	3:J:1258:ARG:HB2	1.74	0.69
2:C:1330:ILE:HB	2:C:1337:ILE:HG21	1.73	0.69
3:J:1145:PHE:O	3:J:1309:ILE:HG13	1.92	0.69
3:D:909:ILE:HD11	3:D:913:GLU:CB	2.21	0.69
4:Q:27:ALA:HA	4:Q:30:MET:SD	2.32	0.69
3:D:79:LYS:HZ3	5:F:569:THR:HG22	1.57	0.69
3:D:1101:LEU:HD22	3:D:1122:ALA:CB	2.22	0.69
3:J:1031:VAL:HG11	3:J:1090:ILE:HA	1.73	0.69
2:I:655:VAL:HG12	2:I:656:SER:N	2.05	0.69
5:L:518:HIS:O	5:L:520:GLY:N	2.24	0.69
1:M:41:ASN:HD21	2:O:1217:THR:C	1.95	0.69
5:R:390:ILE:HD13	5:R:432:THR:HG23	1.73	0.69
2:C:1289:GLU:OE2	3:D:472:LEU:HB2	1.92	0.69
3:P:771:GLN:HA	3:P:774:ILE:HD12	1.74	0.69
2:O:347:ILE:HD11	2:O:433:ILE:CD1	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:82:VAL:O	2:O:86:GLN:HG3	1.92	0.69
2:I:1054:LEU:CD2	2:I:1055:ALA:N	2.55	0.69
2:I:1035:LYS:C	2:I:1036:ILE:HG13	2.12	0.69
2:O:163:LYS:HG2	2:O:164:THR:H	1.53	0.69
6:4:59:DG:O6	7:5:3:DG:O6	2.10	0.69
3:P:398:LYS:O	3:P:402:GLU:HG3	1.91	0.69
2:C:975:ILE:O	2:C:979:LEU:CG	2.37	0.69
3:P:1344:LEU:CA	3:P:1349:GLU:OE1	2.37	0.69
3:D:1155:ILE:O	3:D:1156:LEU:CD2	2.40	0.69
2:I:184:LEU:HD11	2:I:389:PHE:CD2	2.26	0.69
1:N:64:VAL:HG11	1:N:78:ILE:HD11	1.74	0.69
5:R:572:THR:O	5:R:576:VAL:HG23	1.92	0.69
1:N:100:LEU:HD11	1:N:121:VAL:HG11	1.74	0.69
3:P:1173:ARG:O	3:P:1190:ILE:HB	1.92	0.69
2:O:76:GLY:O	2:O:94:ALA:HB1	1.91	0.69
4:Q:59:ILE:HG23	4:Q:64:LEU:HD21	1.74	0.69
3:D:433:GLY:O	3:D:457:TYR:CE1	2.45	0.69
2:O:805:MET:HB2	2:O:806:PRO:HD2	1.72	0.69
2:O:448:LEU:CD1	2:O:557:ARG:CD	2.65	0.69
2:I:678:ARG:CZ	2:I:1106:ARG:HB3	2.21	0.69
3:D:858:VAL:HG11	3:D:872:LEU:HD11	1.73	0.69
2:O:528:ARG:NH2	2:O:575:LEU:HD23	2.06	0.69
3:J:1148:ARG:HG2	6:4:55:DC:OP1	1.92	0.69
3:D:111:THR:HG23	3:D:300:GLN:HE22	1.57	0.69
3:J:601:ILE:O	3:J:605:LEU:CG	2.40	0.69
2:I:191:LYS:HA	3:J:1069:ALA:HB3	1.75	0.69
5:L:406:GLN:O	5:L:410:ILE:HG13	1.92	0.69
2:I:1107:MET:HG2	3:J:740:LEU:HD21	1.73	0.69
3:P:644:MET:HE1	3:P:764:ARG:HB2	1.73	0.69
3:P:822:MET:CE	3:P:838:ARG:HE	2.05	0.69
3:P:930:LEU:HD13	3:P:1134:ILE:CG1	2.22	0.69
2:I:1065:LYS:NZ	8:6:15:G:OP1	2.24	0.69
1:A:88:LEU:HD13	1:A:128:HIS:CG	2.28	0.69
6:7:58:DG:H2"	6:7:59:DG:OP2	1.91	0.69
5:F:587:ILE:HA	5:F:590:ILE:HD12	1.74	0.69
3:D:1348:LYS:HA	3:D:1351:VAL:HG21	1.74	0.69
3:P:527:LEU:HD22	3:P:532:GLU:OE2	1.92	0.69
2:I:436:ARG:O	2:I:436:ARG:HD2	1.92	0.69
3:D:909:ILE:HD11	3:D:913:GLU:HB2	1.72	0.69
1:M:67:GLU:O	1:M:78:ILE:HB	1.93	0.69
3:P:1262:ARG:HH22	3:P:1316:THR:HB	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1029:THR:HG22	3:J:1099:TYR:CD1	2.27	0.69
3:P:536:LEU:HD22	3:P:541:LEU:O	1.93	0.69
2:C:846:GLY:HA3	2:C:889:PRO:HG2	1.73	0.69
3:J:115:TRP:CZ2	3:J:1329:THR:CG2	2.70	0.69
1:M:35:PHE:O	1:M:39:LEU:CD2	2.39	0.69
3:D:281:ARG:CZ	5:F:441:ARG:HH22	2.06	0.69
4:K:5:THR:HG22	4:K:7:GLN:H	1.58	0.69
5:L:102:MET:HE3	5:L:105:MET:HE2	1.75	0.69
3:D:786:THR:CG2	3:D:787:ALA:N	2.55	0.69
2:C:149:LEU:HD11	2:C:451:ARG:CB	2.20	0.69
3:P:734:ALA:O	3:P:737:ILE:HB	1.93	0.69
1:N:11:PRO:HG3	1:N:31:LEU:HD21	1.74	0.69
1:H:28:LEU:HD13	1:H:28:LEU:O	1.93	0.69
2:I:599:VAL:HG21	2:I:623:LEU:CD1	2.22	0.69
1:A:57:THR:HG23	1:A:158:ARG:NH2	2.07	0.69
3:J:722:ILE:O	3:J:725:MET:HB2	1.93	0.69
2:O:102:LEU:HD21	2:O:104:ILE:HD11	1.73	0.69
3:J:332:LYS:HZ2	3:J:1329:THR:HG23	1.57	0.69
1:M:43:LEU:CD1	1:M:203:ILE:HD11	2.20	0.69
1:A:228:LEU:CA	1:A:231:PHE:CE2	2.61	0.69
1:A:45:ARG:HH12	2:C:1216:ARG:HA	1.58	0.69
2:C:448:LEU:HG	2:C:553:THR:HB	1.75	0.69
2:C:408:SER:O	2:C:431:LYS:NZ	2.21	0.69
3:J:922:SER:O	3:J:926:PRO:HD3	1.92	0.69
3:P:421:VAL:CG2	3:P:439:PRO:CG	2.69	0.69
3:J:1274:PHE:O	3:J:1278:GLU:HG3	1.93	0.69
3:D:497:GLU:CB	3:D:498:PRO:HD2	2.23	0.69
2:O:976:ARG:O	2:O:980:VAL:HG23	1.93	0.69
2:O:431:LYS:O	2:O:434:ASP:HB2	1.93	0.69
2:I:525:THR:HG21	2:I:687:ARG:HD3	1.74	0.69
3:J:76:LYS:O	3:J:80:HIS:ND1	2.22	0.69
3:J:1310:THR:O	3:J:1314:LEU:HG	1.91	0.69
2:I:65:ASN:HD21	2:I:484:LEU:HD11	1.55	0.69
2:O:495:ALA:HA	2:O:498:ILE:HD12	1.75	0.69
2:O:867:GLU:OE2	2:O:943:LYS:HG2	1.91	0.69
2:C:871:VAL:CG2	2:C:883:LEU:O	2.41	0.69
3:P:128:LEU:HD13	3:P:188:LEU:HD23	1.75	0.69
3:J:749:LYS:CE	3:J:753:SER:HB2	2.22	0.69
3:D:478:LEU:HB3	4:E:20:VAL:HG22	1.75	0.69
2:I:1332:SER:O	3:J:243:PRO:HG2	1.93	0.69
1:H:100:LEU:HD13	1:H:115:ILE:CG2	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:271:ARG:HH12	3:P:316:ILE:HG23	1.57	0.69
2:C:205:PRO:HB2	2:C:207:THR:HG22	1.73	0.69
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.75	0.69
2:I:1287:LEU:HD22	3:J:1357:ILE:HG12	1.74	0.69
2:I:885:GLY:HA2	2:I:917:SER:OG	1.93	0.69
1:G:115:ILE:HD12	1:G:123:ILE:HD13	1.75	0.69
3:J:1368:ASP:HA	3:J:1371:ARG:HE	1.57	0.69
3:P:382:TYR:HD1	3:P:397:ALA:HB1	1.57	0.69
1:H:151:GLY:HA2	1:H:178:SER:OG	1.93	0.69
5:F:583:THR:CG2	5:F:586:ARG:CB	2.66	0.69
3:D:471:PRO:HB2	3:D:476:ALA:HB1	1.75	0.69
3:D:474:LEU:HD12	4:E:28:ARG:CG	2.21	0.69
4:E:54:ILE:HG13	4:E:59:ILE:HB	1.74	0.69
2:C:804:PHE:O	3:D:638:SER:HB3	1.92	0.69
3:P:148:GLU:HA	3:P:155:GLU:O	1.93	0.69
2:I:807:TRP:O	2:I:809:GLY:N	2.26	0.69
1:A:42:ALA:CA	1:B:38:THR:CG2	2.68	0.68
3:J:490:ILE:HG23	3:J:500:ILE:HD12	1.73	0.68
3:D:470:VAL:CB	3:D:472:LEU:CD2	2.66	0.68
1:G:67:GLU:O	1:G:78:ILE:HB	1.92	0.68
2:I:165:HIS:NE2	2:I:190:PRO:HB3	2.07	0.68
2:C:297:VAL:HG13	2:C:317:LEU:CD2	2.23	0.68
1:A:140:ILE:HG13	1:A:141:SER:N	2.08	0.68
1:H:14:VAL:CG2	1:H:29:GLU:HG2	2.23	0.68
2:I:851:THR:CG2	2:I:852:ALA:N	2.56	0.68
3:P:147:ILE:O	3:P:148:GLU:HB2	1.92	0.68
1:A:109:PRO:HG3	1:A:132:HIS:CD2	2.28	0.68
5:F:451:ARG:HG3	5:F:451:ARG:O	1.92	0.68
3:D:378:LYS:O	3:D:382:TYR:CD2	2.46	0.68
3:P:1145:PHE:HB3	3:P:1309:ILE:HD11	1.75	0.68
2:O:448:LEU:HD11	2:O:557:ARG:HD3	1.75	0.68
2:C:530:ILE:N	2:C:530:ILE:HD12	2.08	0.68
2:C:761:GLN:O	2:C:762:ASN:HB2	1.91	0.68
2:O:1289:GLU:HA	2:O:1293:VAL:CG2	2.24	0.68
2:I:883:LEU:HD21	2:I:920:VAL:HG22	1.76	0.68
5:L:392:LYS:HA	5:L:395:THR:HG23	1.76	0.68
1:H:65:LEU:HD22	1:H:168:ILE:HG22	1.76	0.68
3:D:331:ILE:HG22	3:D:338:PHE:HE2	1.57	0.68
1:A:56:VAL:HG13	1:A:144:ILE:CG2	2.23	0.68
3:D:1159:ILE:HG22	3:D:1160:SER:H	1.58	0.68
3:P:707:ILE:HG22	3:P:708:ASN:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:201:LEU:HB3	3:D:221:ILE:HD11	1.75	0.68
3:J:835:LEU:HD12	3:J:839:VAL:HG21	1.74	0.68
3:P:34:SER:CB	3:P:104:HIS:HB3	2.23	0.68
2:I:1125:GLY:O	2:I:1128:ILE:HB	1.93	0.68
3:P:362:ARG:HB2	3:P:365:GLN:CD	2.12	0.68
2:C:519:ASN:ND2	2:C:521:LEU:HD23	2.09	0.68
3:P:366:CYS:SG	3:P:439:PRO:HA	2.33	0.68
3:D:162:GLU:HB3	3:D:163:GLU:OE1	1.94	0.68
1:N:43:LEU:O	1:N:47:LEU:HG	1.93	0.68
3:P:796:LEU:HG	3:P:797:THR:N	2.06	0.68
3:D:575:GLY:O	3:D:578:ILE:HB	1.93	0.68
2:O:448:LEU:HD12	2:O:557:ARG:HD2	1.75	0.68
3:J:428:THR:HG21	3:J:921:GLN:HE22	1.58	0.68
5:R:98:VAL:HG21	6:7:44:DG:N2	2.08	0.68
3:D:644:MET:O	3:D:764:ARG:CZ	2.42	0.68
3:J:491:LEU:HD23	3:J:498:PRO:HA	1.75	0.68
1:B:47:LEU:HD13	1:B:183:ILE:CD1	2.24	0.68
3:P:416:ILE:HD12	3:P:441:LEU:HG	1.74	0.68
3:J:506:VAL:O	3:J:510:LEU:HG	1.94	0.68
3:D:182:ALA:HA	3:D:185:ILE:CD1	2.23	0.68
3:D:786:THR:HG23	3:D:787:ALA:N	2.09	0.68
2:O:805:MET:O	2:O:811:ASN:ND2	2.26	0.68
2:O:558:VAL:HG11	2:O:573:ASN:HB3	1.76	0.68
3:P:749:LYS:HD2	3:P:753:SER:OG	1.93	0.68
2:O:830:THR:OG1	2:O:832:HIS:CD2	2.47	0.68
3:D:665:GLN:O	3:D:668:PHE:HB3	1.92	0.68
2:C:542:ARG:NH2	6:1:49:DG:N7	2.42	0.68
5:R:533:ASP:OD1	5:R:533:ASP:N	2.25	0.68
2:C:714:VAL:HG13	2:C:786:GLY:HA3	1.75	0.68
3:D:237:MET:O	3:D:238:ILE:HD13	1.93	0.68
1:M:13:LEU:HD13	1:M:28:LEU:HD23	1.75	0.68
2:O:163:LYS:CG	2:O:164:THR:H	2.02	0.68
1:B:47:LEU:O	1:B:51:MET:HB2	1.93	0.68
3:J:406:ALA:HA	3:J:409:TRP:CD1	2.27	0.68
3:J:725:MET:HE3	3:J:732:GLY:H	1.58	0.68
1:B:193:GLU:O	1:B:194:GLN:HB2	1.93	0.68
5:F:452:ILE:HG21	5:F:457:ILE:HD13	1.76	0.68
3:P:350:SER:HB3	3:P:469:HIS:ND1	2.09	0.68
3:D:886:VAL:HG13	3:D:1258:ARG:CG	2.22	0.68
3:J:747:MET:HA	3:J:941:ALA:HB3	1.73	0.68
3:J:112:ALA:HA	3:J:238:ILE:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:509:GLY:O	3:D:513:MET:HG3	1.93	0.68
3:P:697:MET:HE3	3:P:737:ILE:CG2	2.24	0.68
2:O:575:LEU:HD11	2:O:579:ALA:HB3	1.76	0.68
3:P:1319:PHE:HD2	3:P:1340:LYS:HD2	1.59	0.68
3:P:1162:ILE:HG13	3:P:1180:VAL:HG12	1.75	0.68
3:P:530:PRO:HB2	3:P:581:MET:CG	2.23	0.68
5:R:437:GLN:OE1	7:8:27:DA:N6	2.26	0.68
2:I:1324:ASN:HA	2:I:1327:LEU:HD12	1.76	0.68
3:P:614:LEU:O	3:P:617:THR:OG1	2.11	0.68
3:D:425:ARG:HH22	8:3:16:U:H4'	1.58	0.68
2:I:369:MET:HG3	2:I:370:MET:H	1.59	0.68
3:D:885:VAL:HG12	3:D:886:VAL:CG2	2.24	0.68
1:G:225:ALA:CB	1:H:228:LEU:HD13	2.21	0.68
2:O:371:ARG:HA	5:R:99:ARG:NH2	2.07	0.68
2:I:851:THR:HG22	2:I:852:ALA:N	2.09	0.68
3:P:536:LEU:HD22	3:P:541:LEU:C	2.14	0.68
2:I:896:THR:HG22	2:I:899:GLU:OE1	1.94	0.68
2:C:824:GLN:HE22	2:C:1082:ILE:HD11	1.58	0.68
2:I:1077:SER:HA	3:J:356:THR:HG21	1.74	0.68
2:O:729:ALA:O	2:O:730:SER:HB3	1.94	0.68
1:A:61:ILE:HD13	1:A:64:VAL:HG11	1.75	0.68
1:N:74:VAL:HG22	1:N:133:LEU:HD21	1.75	0.68
3:J:128:LEU:HD21	3:J:189:LEU:HD23	1.76	0.68
2:I:700:VAL:HG21	2:I:1114:GLU:HG3	1.76	0.68
3:D:811:GLU:O	3:D:895:CYS:HA	1.94	0.68
1:G:16:ILE:HG21	1:G:214:GLU:HG3	1.75	0.68
2:I:197:ARG:HB3	2:I:200:ARG:HA	1.75	0.68
2:C:807:TRP:O	2:C:809:GLY:N	2.25	0.68
3:P:805:GLN:OE1	3:P:1347:LEU:HB2	1.94	0.68
1:N:179:PRO:O	1:N:208:ASN:HB2	1.92	0.68
2:C:1209:GLN:HE21	3:D:640:GLY:HA3	1.57	0.68
5:F:461:ASN:HA	7:2:26:DT:C5	2.28	0.68
3:D:133:ARG:NH2	5:F:91:ILE:O	2.24	0.68
2:I:870:ILE:HB	2:I:944:ARG:HD3	1.75	0.68
2:O:1231:TYR:O	2:O:1232:MET:HE2	1.94	0.68
3:P:1163:VAL:HG13	3:P:1176:VAL:O	1.94	0.68
3:D:58:CYS:SG	3:D:60:ARG:N	2.66	0.68
2:C:1113:LEU:HD23	3:D:641:ILE:HD13	1.76	0.68
2:I:65:ASN:ND2	2:I:484:LEU:HD11	2.09	0.68
2:I:176:ILE:O	2:I:176:ILE:HG22	1.93	0.68
1:A:180:VAL:CA	1:A:207:THR:HG22	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:LEU:HD13	1:B:115:ILE:HG23	1.75	0.67
2:C:1273:MET:O	3:D:428:THR:HG21	1.93	0.67
2:O:1212:LEU:HB3	2:O:1221:PHE:HD2	1.57	0.67
2:I:344:GLY:HA3	2:I:346:TYR:CE2	2.28	0.67
3:D:263:SER:HA	5:F:507:MET:HB3	1.76	0.67
5:R:98:VAL:O	5:R:102:MET:HG2	1.94	0.67
1:A:57:THR:HG21	1:A:158:ARG:HH22	1.58	0.67
2:C:112:GLY:C	2:C:114:VAL:H	1.97	0.67
3:J:68:TYR:HA	3:J:92:VAL:CG1	2.23	0.67
1:G:35:PHE:O	1:G:39:LEU:HG	1.94	0.67
5:R:493:LYS:O	5:R:497:VAL:HG23	1.94	0.67
1:A:50:SER:O	1:A:52:PRO:HD3	1.93	0.67
1:B:182:ARG:HB3	1:B:206:GLU:HB3	1.76	0.67
2:O:759:SER:HA	2:O:765:ILE:HD11	1.76	0.67
2:O:764:CYS:HB3	2:O:831:ILE:HB	1.75	0.67
3:D:181:GLY:C	3:D:185:ILE:CD1	2.63	0.67
2:I:196:VAL:CG2	2:I:206:ALA:HA	2.24	0.67
2:C:1289:GLU:HA	2:C:1293:VAL:CG2	2.25	0.67
2:C:1289:GLU:HA	2:C:1293:VAL:HG22	1.76	0.67
3:D:131:PRO:O	3:D:135:ILE:CG1	2.42	0.67
1:N:215:GLU:O	1:N:219:ARG:HG3	1.94	0.67
2:O:1077:SER:CB	3:P:357:VAL:HG23	2.24	0.67
2:O:830:THR:HG23	2:O:1234:LYS:NZ	2.09	0.67
2:O:412:GLU:N	2:O:412:GLU:CD	2.45	0.67
3:D:264:ASP:OD1	3:D:264:ASP:N	2.25	0.67
3:P:854:ALA:O	3:P:855:ASP:HB2	1.93	0.67
1:M:40:GLY:CA	1:M:43:LEU:HD12	2.21	0.67
2:C:1184:THR:HG23	2:C:1184:THR:O	1.92	0.67
3:D:162:GLU:OE2	5:F:84:LEU:HD13	1.95	0.67
3:D:1350:ASN:HA	3:D:1353:VAL:CG2	2.25	0.67
1:G:185:TYR:CD2	1:G:185:TYR:O	2.47	0.67
3:D:819:GLY:N	3:D:881:LYS:HE2	2.09	0.67
3:P:822:MET:HE2	3:P:838:ARG:HE	1.59	0.67
1:A:88:LEU:HD13	1:A:128:HIS:CD2	2.29	0.67
3:P:378:LYS:HE2	3:P:382:TYR:OH	1.95	0.67
3:P:188:LEU:HG	3:P:188:LEU:O	1.93	0.67
3:J:814:CYS:SG	3:J:883:ARG:NH2	2.67	0.67
3:D:783:LEU:HD12	3:D:783:LEU:N	2.09	0.67
2:C:1107:MET:HE2	3:D:740:LEU:CD2	2.23	0.67
3:P:325:LYS:HG3	3:P:329:ASP:HB3	1.77	0.67
4:Q:27:ALA:HB1	4:Q:46:THR:HB	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1095:MET:SD	3:J:1173:ARG:NH2	2.68	0.67
4:K:69:ARG:O	4:K:73:GLN:HG3	1.94	0.67
5:L:119:ILE:HG23	5:L:122:ARG:NH2	2.09	0.67
3:J:443:GLU:HG3	3:J:444:GLY:N	2.07	0.67
1:B:133:LEU:HD22	1:B:138:ALA:HB1	1.75	0.67
3:D:1109:LEU:HD13	3:D:1115:ILE:HG22	1.76	0.67
2:I:145:ILE:HD11	2:I:506:PHE:HD1	1.60	0.67
3:D:1264:ALA:HB1	3:D:1303:SER:O	1.93	0.67
2:O:402:ARG:CG	2:O:416:GLY:HA3	2.20	0.67
1:M:11:PRO:HD2	1:N:227:GLN:HA	1.77	0.67
2:O:657:THR:O	2:O:660:VAL:HG23	1.94	0.67
3:J:421:VAL:CG1	3:J:469:HIS:O	2.42	0.67
5:F:166:VAL:HG12	5:F:168:PRO:HD3	1.75	0.67
2:I:805:MET:HE3	2:I:806:PRO:HD2	1.75	0.67
2:I:886:LYS:H	2:I:917:SER:HG	1.42	0.67
2:O:90:VAL:HG12	2:O:91:THR:H	1.60	0.67
2:I:848:GLU:HG2	2:I:888:THR:HG23	1.74	0.67
3:P:131:PRO:O	3:P:135:ILE:HG13	1.94	0.67
3:J:397:ALA:O	3:J:401:VAL:HG23	1.93	0.67
1:M:228:LEU:HD22	1:N:221:ALA:HB1	1.77	0.67
5:R:387:VAL:HG11	5:R:409:ASN:OD1	1.95	0.67
5:R:587:ILE:HG23	5:R:590:ILE:HD12	1.75	0.67
2:C:1273:MET:SD	3:D:428:THR:O	2.53	0.67
3:P:1226:VAL:O	3:P:1229:VAL:HG12	1.94	0.67
3:J:872:LEU:O	3:J:877:VAL:HG23	1.94	0.67
1:G:49:SER:HB3	1:H:33:ARG:HH12	1.59	0.67
3:D:607:THR:O	3:D:611:ILE:HG13	1.95	0.67
3:J:105:ILE:CD1	3:J:244:VAL:HG21	2.25	0.67
2:C:297:VAL:HG23	2:C:314:ASN:H	1.59	0.67
2:O:9:LYS:HE2	2:O:1171:ARG:CD	2.24	0.67
6:4:45:DT:H3'	6:4:45:DT:C6	2.30	0.67
2:C:496:LYS:CB	2:C:497:PRO:HD3	2.24	0.67
3:D:325:LYS:HG3	3:D:329:ASP:CB	2.24	0.67
5:R:291:CYS:O	5:R:295:CYS:HB2	1.94	0.67
5:F:119:ILE:HG13	5:F:122:ARG:HH22	1.59	0.67
2:O:936:ARG:HG2	2:O:937:ASP:H	1.60	0.67
3:P:212:THR:HA	3:P:215:LYS:HD2	1.76	0.67
3:J:332:LYS:HZ2	3:J:1329:THR:CG2	2.06	0.67
2:I:106:GLU:HG2	2:I:115:LYS:CB	2.20	0.67
2:O:804:PHE:O	2:O:805:MET:HB3	1.95	0.67
1:M:8:PHE:CE1	1:N:223:ILE:HG23	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1173:ARG:O	3:J:1190:ILE:HB	1.95	0.67
5:L:84:LEU:CD1	5:L:107:THR:CG2	2.72	0.67
2:C:623:LEU:HD23	2:C:628:HIS:O	1.95	0.67
2:I:702:THR:HG22	2:I:1184:THR:O	1.95	0.67
2:C:1268:GLN:HE22	3:D:351:GLY:N	1.91	0.67
3:P:747:MET:SD	3:P:747:MET:N	2.68	0.67
3:D:1287:ILE:HG22	3:D:1288:ALA:CA	2.25	0.67
1:M:214:GLU:HA	1:M:217:ILE:CD1	2.23	0.67
2:O:557:ARG:HG3	2:O:557:ARG:HH11	1.60	0.67
3:J:832:LYS:HZ2	3:J:1242:ARG:HB3	1.58	0.67
5:L:145:LEU:HD13	5:L:225:ARG:NH1	2.09	0.67
3:D:521:LYS:NZ	3:D:541:LEU:HD23	2.10	0.67
3:P:1155:ILE:O	3:P:1210:ILE:HD12	1.93	0.67
3:D:563:LEU:CD2	3:D:586:GLY:HA2	2.23	0.67
3:J:835:LEU:HG	3:J:836:ARG:N	2.10	0.67
5:R:112:THR:OG1	5:R:113:ARG:HG2	1.95	0.67
3:P:519:ASN:HB3	3:P:523:GLU:CD	2.15	0.67
3:D:1167:LYS:HB2	3:D:1174:ARG:NH1	2.09	0.67
2:O:1065:LYS:HE3	3:P:463:GLY:HA3	1.77	0.67
2:O:592:ARG:NE	2:O:600:THR:O	2.27	0.67
3:J:886:VAL:HG11	3:J:1261:LEU:HD13	1.74	0.67
3:D:1327:GLU:O	3:D:1331:VAL:CG2	2.35	0.67
2:I:165:HIS:CB	2:I:168:GLY:N	2.58	0.67
2:O:1161:LEU:O	2:O:1163:THR:N	2.28	0.67
3:P:796:LEU:HD11	3:P:800:LEU:HD11	1.77	0.67
2:C:1151:LEU:HD23	2:C:1198:LEU:HD13	1.75	0.67
2:O:811:ASN:ND2	2:O:1099:ASN:CA	2.57	0.67
5:L:132:CYS:SG	5:L:257:LYS:HE2	2.34	0.67
5:L:476:ARG:CG	5:L:477:GLU:H	2.07	0.67
3:J:147:ILE:HG13	3:J:178:ALA:HA	1.77	0.67
3:P:275:ARG:HG2	3:P:278:ARG:NH2	2.10	0.67
2:C:871:VAL:HG23	2:C:883:LEU:O	1.95	0.67
3:J:511:TYR:HD1	3:J:596:LEU:O	1.78	0.67
3:D:1367:GLN:HA	3:D:1370:MET:HG3	1.77	0.67
2:O:871:VAL:HG23	2:O:883:LEU:O	1.95	0.67
1:G:78:ILE:HG22	1:G:82:LEU:HD11	1.77	0.67
2:I:165:HIS:HB2	2:I:168:GLY:CA	2.25	0.67
1:H:86:LYS:HE3	1:H:173:VAL:HG12	1.77	0.67
3:D:1263:LYS:HG2	3:D:1281:GLU:CA	2.22	0.67
5:R:399:LEU:O	5:R:400:GLN:CB	2.42	0.67
1:H:47:LEU:HD13	1:H:183:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:I:50:DT:C6	6:I:50:DT:H3'	2.28	0.67
2:I:805:MET:HE2	2:I:806:PRO:HD2	1.76	0.67
2:I:1286:THR:OG1	3:J:479:GLU:OE2	2.12	0.67
2:I:1111:GLN:HB2	2:I:1230:MET:HE3	1.76	0.67
5:F:503:GLU:HB3	5:F:504:PRO:HD2	1.77	0.67
3:J:744:ARG:CZ	3:J:940:ALA:HB2	2.25	0.66
3:D:501:VAL:HG13	3:D:502:PRO:CD	2.24	0.66
2:I:1257:GLN:NE2	3:J:345:LYS:HB3	2.10	0.66
1:M:66:HIS:CE1	2:O:929:ILE:HG12	2.29	0.66
2:O:558:VAL:O	2:O:560:PRO:HD3	1.95	0.66
2:I:1124:ILE:HD11	2:I:1198:LEU:HG	1.77	0.66
3:D:536:LEU:HD13	3:D:542:ALA:HB2	1.77	0.66
3:J:1106:ILE:HD12	3:J:1125:PRO:HG2	1.77	0.66
3:P:909:ILE:HG12	3:P:910:ASN:N	2.11	0.66
3:P:418:GLU:O	3:P:481:ARG:NH2	2.28	0.66
3:P:575:GLY:O	3:P:578:ILE:HB	1.95	0.66
5:L:451:ARG:HG3	5:L:451:ARG:O	1.95	0.66
3:D:836:ARG:CB	3:D:873:GLU:OE2	2.42	0.66
5:L:412:LEU:O	5:L:416:VAL:HG23	1.96	0.66
5:F:333:VAL:HG13	5:F:333:VAL:O	1.96	0.66
2:I:1098:LEU:HD23	2:I:1099:ASN:N	2.10	0.66
2:O:1061:GLN:HB2	2:O:1062:PRO:HD2	1.77	0.66
2:O:150:HIS:HE1	2:O:454:ARG:HG3	1.60	0.66
2:O:540:ARG:HD3	2:O:567:PRO:HB2	1.75	0.66
2:O:71:VAL:HG22	2:O:101:ARG:HE	1.59	0.66
3:P:45:ASN:HB3	3:P:48:THR:O	1.96	0.66
2:C:519:ASN:HD21	2:C:521:LEU:HD23	1.58	0.66
1:A:45:ARG:NH1	2:C:1215:GLY:O	2.27	0.66
3:J:614:LEU:O	3:J:617:THR:OG1	2.13	0.66
4:E:39:VAL:CB	4:E:40:PRO:HD2	2.24	0.66
2:I:165:HIS:HB2	2:I:168:GLY:N	2.11	0.66
3:D:306:LEU:O	3:D:326:SER:HB2	1.94	0.66
3:D:779:ALA:O	3:D:783:LEU:HD13	1.94	0.66
2:O:230:PHE:CE1	2:O:292:ILE:HD11	2.30	0.66
2:I:1124:ILE:HD13	2:I:1201:LEU:HD23	1.77	0.66
5:R:128:ASN:ND2	5:R:257:LYS:HE2	2.10	0.66
5:R:511:ILE:HG13	5:R:517:SER:OG	1.95	0.66
2:I:714:VAL:HG13	2:I:786:GLY:HA3	1.76	0.66
5:R:434:TRP:CZ2	6:7:36:DT:C7	2.78	0.66
2:O:528:ARG:CZ	2:O:575:LEU:HD23	2.24	0.66
6:4:53:DG:H2"	6:4:54:DA:OP2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:170:VAL:CG2	3:D:1065:ALA:HB1	2.26	0.66
2:C:902:LEU:HA	2:C:905:ILE:HD12	1.77	0.66
3:P:701:LEU:HG	3:P:723:TYR:HB2	1.78	0.66
3:P:1215:GLU:HB3	3:P:1220:ILE:HD11	1.77	0.66
3:J:869:CYS:HA	3:J:872:LEU:CD1	2.24	0.66
3:D:1318:SER:HA	3:D:1342:ASP:OD2	1.95	0.66
6:4:50:DT:H3'	6:4:50:DT:C6	2.30	0.66
2:C:56:VAL:CG1	2:C:59:ILE:HD11	2.24	0.66
2:C:1142:ARG:HG3	2:C:1161:LEU:HD21	1.78	0.66
3:P:161:THR:H	3:P:164:GLN:CD	1.98	0.66
2:I:161:LYS:CA	2:I:161:LYS:HE2	2.24	0.66
2:O:1017:GLN:O	2:O:1021:LEU:HG	1.95	0.66
3:J:1332:LEU:HD23	3:J:1332:LEU:N	2.09	0.66
1:N:35:PHE:O	1:N:39:LEU:CD1	2.43	0.66
5:F:452:ILE:HB	5:F:457:ILE:HD11	1.77	0.66
5:R:452:ILE:HG22	5:R:456:MET:HG2	1.76	0.66
2:I:1326:LEU:HD22	3:J:342:LEU:HD11	1.76	0.66
2:O:1128:ILE:HG22	2:O:1132:LEU:HD11	1.77	0.66
3:D:205:LEU:HD21	3:D:214:ARG:CG	2.24	0.66
2:C:700:VAL:O	2:C:1069:ARG:NH2	2.28	0.66
1:G:44:ARG:HA	1:G:183:ILE:HD13	1.75	0.66
3:D:583:VAL:HG13	3:D:587:LEU:HD12	1.78	0.66
3:P:1103:GLY:O	3:P:1104:LYS:CB	2.44	0.66
3:D:267:ASP:O	3:D:271:ARG:HG3	1.95	0.66
1:A:134:THR:HG22	2:C:773:LEU:HD22	1.77	0.66
5:F:169:ASN:HB2	5:F:260:ARG:HB2	1.77	0.66
3:J:79:LYS:HD2	5:L:569:THR:HG21	1.76	0.66
1:A:221:ALA:HB1	1:B:228:LEU:CD2	2.25	0.66
2:I:220:ILE:HG22	2:I:221:LEU:N	2.11	0.66
3:D:433:GLY:O	3:D:457:TYR:HE1	1.78	0.66
3:P:527:LEU:CD1	3:P:532:GLU:HG2	2.19	0.66
3:D:431:ARG:NH2	3:D:904:ALA:HB1	2.09	0.66
1:H:100:LEU:CD1	1:H:115:ILE:HG21	2.19	0.66
3:P:697:MET:HE1	3:P:737:ILE:CG2	2.24	0.66
2:O:201:ARG:HB2	2:O:369:MET:HE1	1.78	0.66
3:D:1148:ARG:O	3:D:1150:PRO:HD3	1.96	0.66
2:C:19:PRO:CB	2:C:1156:ARG:HD2	2.25	0.66
2:C:555:TYR:OH	3:D:769:VAL:CG1	2.43	0.66
7:8:18:DT:H2'	7:8:19:DA:C5'	2.24	0.66
2:O:1017:GLN:HE21	2:O:1021:LEU:HG	1.61	0.66
2:C:1006:GLU:HB2	2:C:1007:LYS:NZ	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1123:GLY:O	2:O:1127:LYS:HG2	1.93	0.66
2:C:521:LEU:HD21	2:C:686:GLN:C	2.15	0.66
1:A:44:ARG:HA	1:A:47:LEU:HD13	1.77	0.66
5:R:590:ILE:HG12	5:R:593:LYS:NZ	2.10	0.66
3:D:162:GLU:HB3	3:D:163:GLU:CD	2.16	0.66
2:C:886:LYS:N	2:C:917:SER:OG	2.25	0.66
2:I:800:MET:SD	2:I:1096:ILE:HD11	2.36	0.66
2:I:1289:GLU:OE2	3:J:473:THR:N	2.25	0.66
1:G:47:LEU:HD12	1:G:183:ILE:CD1	2.16	0.66
3:P:742:GLY:O	3:P:762:ASN:HB3	1.96	0.66
5:L:591:GLU:O	5:L:595:LEU:HG	1.94	0.66
1:B:220:ALA:HA	1:B:223:ILE:HD12	1.78	0.66
5:L:100:MET:HG2	5:L:103:ARG:HH22	1.60	0.66
5:L:511:ILE:HD13	5:L:519:LEU:HA	1.77	0.66
1:M:38:THR:CG2	1:N:42:ALA:CA	2.73	0.66
3:J:786:THR:CG2	3:J:787:ALA:N	2.59	0.66
5:R:91:ILE:HD11	5:R:103:ARG:HH12	1.60	0.66
2:I:797:GLY:CA	2:I:1233:LEU:HD23	2.26	0.66
2:C:42:ASP:OD1	2:C:43:PRO:HD2	1.95	0.66
3:J:288:PRO:O	3:J:292:VAL:HG23	1.96	0.66
2:I:391:SER:HB3	2:I:394:ARG:HB2	1.78	0.66
2:I:759:SER:HB3	2:I:765:ILE:HG13	1.78	0.66
1:M:39:LEU:O	1:M:43:LEU:CG	2.23	0.66
3:D:281:ARG:HH22	5:F:441:ARG:HH22	0.69	0.66
1:A:179:PRO:O	1:A:208:ASN:ND2	2.29	0.66
5:F:583:THR:HG21	5:F:587:ILE:HD13	1.77	0.66
2:C:237:LEU:CG	2:C:289:VAL:HG22	2.21	0.66
3:J:1342:ASP:CG	3:J:1344:LEU:HG	2.16	0.66
3:J:923:ILE:HD11	3:J:1252:HIS:HB3	1.78	0.66
1:A:102:LEU:HD21	1:A:110:VAL:CG1	2.26	0.66
2:O:830:THR:HG1	2:O:832:HIS:CD2	2.14	0.66
6:4:47:DC:C4	6:4:48:DA:C6	2.83	0.66
2:O:164:THR:O	2:O:165:HIS:HB2	1.96	0.66
6:7:50:DT:O5'	6:7:51:DC:C5	2.49	0.66
3:D:574:VAL:O	3:D:578:ILE:HG13	1.95	0.66
1:M:13:LEU:HD11	1:M:26:VAL:CG1	2.25	0.66
2:O:149:LEU:CD2	2:O:451:ARG:HE	2.09	0.66
2:C:253:PHE:CD1	2:C:288:PRO:CD	2.77	0.66
2:C:256:GLU:HG2	2:C:259:GLY:O	1.96	0.66
3:P:306:LEU:O	3:P:326:SER:HB2	1.96	0.66
2:O:99:LYS:HG3	2:O:121:GLU:CG	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1284:ALA:HB1	3:J:1356:LEU:HD23	1.78	0.66
5:R:434:TRP:CE2	6:7:36:DT:C7	2.79	0.66
3:J:662:ALA:HA	3:J:665:GLN:CD	2.16	0.66
3:P:557:LYS:HE2	3:P:561:GLY:HA2	1.77	0.66
1:M:44:ARG:O	1:M:47:LEU:HB2	1.96	0.65
1:A:232:VAL:HG22	1:B:221:ALA:CB	2.26	0.65
2:O:312:ALA:HB3	2:O:315:MET:HB2	1.76	0.65
2:O:1294:LYS:HD3	3:P:347:VAL:HG11	1.78	0.65
2:I:496:LYS:CB	2:I:497:PRO:HD3	2.24	0.65
5:L:476:ARG:CG	5:L:477:GLU:N	2.58	0.65
5:L:145:LEU:HD22	5:L:225:ARG:NH1	2.10	0.65
2:O:1333:LEU:HD11	3:P:331:ILE:HD11	1.79	0.65
2:C:176:ILE:HD12	2:C:184:LEU:HB2	1.77	0.65
5:R:333:VAL:HG13	5:R:333:VAL:O	1.95	0.65
2:O:3:TYR:O	2:O:8:LYS:HE3	1.96	0.65
3:D:1120:THR:HB	3:D:1123:ARG:NH1	2.11	0.65
3:J:127:LEU:HD11	3:J:227:PHE:CE2	2.30	0.65
3:D:382:TYR:CE1	3:D:398:LYS:HA	2.31	0.65
3:D:1328:THR:O	3:D:1332:LEU:CG	2.39	0.65
5:L:412:LEU:HD22	5:L:435:ILE:HD11	1.78	0.65
5:L:597:LYS:C	5:L:598:LEU:HD23	2.16	0.65
2:O:340:ASP:O	2:O:342:ASP:N	2.29	0.65
4:Q:38:LEU:HD12	4:Q:53:GLU:OE2	1.96	0.65
3:J:156:ARG:HB3	3:J:157:GLN:HG3	1.78	0.65
2:O:642:SER:O	2:O:643:SER:HB3	1.94	0.65
1:M:219:ARG:O	1:M:223:ILE:HG13	1.96	0.65
2:I:302:ILE:HA	2:I:309:LEU:HA	1.78	0.65
2:C:1312:ASN:O	2:C:1313:HIS:HB2	1.95	0.65
5:F:323:ASN:O	5:F:324:LYS:HB2	1.96	0.65
1:M:35:PHE:HE2	1:N:50:SER:HG	1.43	0.65
5:F:84:LEU:HG	5:F:107:THR:HG22	1.76	0.65
3:P:563:LEU:HD21	3:P:586:GLY:HA2	1.78	0.65
3:D:502:PRO:HB3	3:D:506:VAL:CG1	2.25	0.65
3:P:259:ARG:HH22	5:R:502:LYS:CG	2.09	0.65
3:P:30:ILE:HG12	3:P:33:TRP:HZ3	1.60	0.65
2:I:1048:LYS:O	2:I:1049:ILE:HG12	1.97	0.65
5:F:555:GLU:O	5:F:559:LEU:HG	1.97	0.65
2:I:686:GLN:CD	2:I:1069:ARG:HG2	2.17	0.65
1:H:42:ALA:O	1:H:46:ILE:HD12	1.95	0.65
1:B:9:LEU:HD12	1:B:10:LYS:N	2.10	0.65
3:P:79:LYS:HG3	5:R:569:THR:CG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:68:TYR:CD1	3:D:93:THR:HA	2.32	0.65
1:A:79:LEU:O	1:A:83:LEU:HD23	1.97	0.65
5:R:353:LEU:HB3	5:R:358:VAL:HG22	1.76	0.65
5:L:599:ARG:O	5:L:601:PRO:HD3	1.97	0.65
5:L:261:LEU:HD13	5:L:269:LEU:HD12	1.76	0.65
5:L:261:LEU:HD13	5:L:269:LEU:CD1	2.26	0.65
2:I:743:PRO:HG3	2:I:974:ARG:NH2	2.11	0.65
5:F:137:TYR:HE2	5:F:139:GLU:HB2	1.62	0.65
3:J:1226:VAL:O	3:J:1229:VAL:CG1	2.44	0.65
3:D:1323:ALA:HB2	3:D:1332:LEU:HD21	1.78	0.65
2:C:1288:GLN:HG2	2:C:1315:MET:SD	2.37	0.65
2:C:1326:LEU:HD22	3:D:342:LEU:CD1	2.27	0.65
2:O:634:VAL:HG12	2:O:635:THR:N	2.12	0.65
1:N:179:PRO:O	1:N:208:ASN:HB3	1.96	0.65
3:J:160:LEU:HD23	3:J:164:GLN:CB	2.27	0.65
2:C:854:ILE:HD12	2:C:862:LEU:HD23	1.77	0.65
5:L:297:MET:HB2	5:L:326:TRP:HZ3	1.61	0.65
6:4:28:DA:C2	7:5:36:DG:N2	2.64	0.65
2:I:1146:GLN:OE1	2:I:1161:LEU:HB3	1.96	0.65
3:P:169:LEU:HD12	3:P:173:GLY:HA2	1.78	0.65
2:I:634:VAL:C	2:I:644:LEU:HD22	2.17	0.65
1:H:75:GLN:HG2	1:H:134:THR:CG2	2.26	0.65
3:J:84:ILE:HG22	3:J:84:ILE:O	1.96	0.65
3:J:139:LEU:HD21	3:J:185:ILE:CD1	2.25	0.65
2:C:1289:GLU:OE1	3:D:472:LEU:CB	2.44	0.65
3:D:609:TYR:C	3:D:609:TYR:CD1	2.70	0.65
2:O:429:MET:O	2:O:432:LEU:HD23	1.97	0.65
3:D:514:THR:O	3:D:576:ARG:NE	2.30	0.65
3:P:248:ASP:O	3:P:251:PRO:HG3	1.97	0.65
5:L:84:LEU:HD11	5:L:107:THR:HG23	1.77	0.65
2:C:204:LEU:HB3	2:C:205:PRO:CD	2.27	0.65
1:N:162:GLU:OE2	1:N:166:ARG:CZ	2.45	0.65
1:A:203:ILE:HG22	1:A:205:MET:HE2	1.78	0.65
2:I:1199:LEU:HD22	2:I:1204:LEU:HB2	1.78	0.65
1:A:47:LEU:HD11	1:A:183:ILE:CD1	2.26	0.65
3:D:343:LEU:HD11	3:D:1348:LYS:HD3	1.77	0.65
2:I:559:CYS:CB	2:I:662:SER:HB3	2.26	0.65
1:G:232:VAL:HG13	1:H:218:ARG:CG	2.20	0.65
2:O:448:LEU:HD23	2:O:448:LEU:C	2.16	0.65
5:F:98:VAL:HG22	5:F:402:LEU:HD21	1.78	0.65
3:J:840:LEU:HD12	3:J:864:LEU:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:489:PRO:O	2:I:493:ILE:CD1	2.44	0.65
2:I:1269:ARG:HG3	3:J:345:LYS:O	1.95	0.65
5:L:295:CYS:O	5:L:296:LYS:CB	2.44	0.65
2:I:15:PHE:HE2	2:I:1182:ILE:HG23	1.61	0.65
2:I:1077:SER:HA	3:J:356:THR:CG2	2.26	0.65
4:K:70:GLN:HA	4:K:73:GLN:CD	2.16	0.65
2:I:387:ASN:O	2:I:391:SER:HB2	1.96	0.65
2:I:729:ALA:O	2:I:730:SER:HB3	1.97	0.65
3:D:749:LYS:HB3	3:D:750:PRO:HD2	1.78	0.65
2:O:32:LEU:HD23	2:O:130:MET:HE1	1.78	0.65
3:D:378:LYS:HE2	3:D:382:TYR:OH	1.96	0.65
1:A:39:LEU:HD23	1:A:39:LEU:N	2.11	0.65
2:C:209:ILE:HD11	2:C:425:ILE:HG21	1.78	0.65
5:L:461:ASN:N	5:L:461:ASN:OD1	2.29	0.65
5:L:587:ILE:CD1	5:L:587:ILE:H	1.85	0.65
3:P:1346:GLY:H	3:P:1349:GLU:CD	2.00	0.65
2:I:524:ILE:CD1	2:I:712:SER:HB3	2.21	0.65
2:I:660:VAL:HG21	3:J:769:VAL:HG12	1.77	0.65
3:J:105:ILE:HD12	3:J:244:VAL:HG22	1.78	0.65
1:B:124:VAL:HG21	1:B:210:THR:CG2	2.25	0.65
3:P:1262:ARG:HH12	3:P:1316:THR:CG2	2.10	0.65
3:D:1028:ILE:HG23	3:D:1118:GLY:HA2	1.78	0.65
2:I:1072:ASN:ND2	2:I:1111:GLN:OE1	2.29	0.65
2:C:720:ARG:NH2	2:C:745:GLU:OE2	2.21	0.65
3:J:97:VAL:HG12	3:J:101:ARG:HD2	1.79	0.65
3:P:1180:VAL:HG11	3:P:1203:ARG:HD3	1.79	0.65
3:P:1215:GLU:CB	3:P:1220:ILE:HD11	2.26	0.65
2:O:1337:ILE:HD11	3:P:20:ILE:HG21	1.77	0.65
5:R:406:GLN:O	5:R:410:ILE:HG13	1.97	0.65
2:I:566:GLY:O	2:I:569:ILE:HG22	1.97	0.65
5:F:123:ILE:HG21	5:F:376:LYS:HE3	1.78	0.65
2:O:727:VAL:H	2:O:773:LEU:HD22	1.61	0.65
2:I:1107:MET:HE1	3:J:763:PHE:CE2	2.32	0.65
5:R:446:GLN:O	5:R:447:ALA:HB3	1.97	0.65
3:D:79:LYS:HZ3	5:F:569:THR:CA	2.10	0.65
2:I:1284:ALA:HB1	3:J:1356:LEU:CD2	2.27	0.65
4:E:60:ASN:ND2	4:E:62:GLN:HB3	2.12	0.65
1:G:112:ALA:HB1	1:G:123:ILE:HG21	1.79	0.65
5:R:533:ASP:O	5:R:536:THR:HB	1.96	0.65
5:F:120:ALA:HA	5:F:123:ILE:HD12	1.77	0.65
3:J:1124:ILE:HG22	3:J:1124:ILE:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:96:ASP:HB3	5:L:99:ARG:CG	2.26	0.65
3:P:1145:PHE:CB	3:P:1309:ILE:HD11	2.27	0.65
1:N:47:LEU:HD13	1:N:183:ILE:CD1	2.26	0.65
2:O:1323:PHE:O	2:O:1327:LEU:HG	1.97	0.65
2:I:178:PRO:HB3	2:I:397:LEU:HD23	1.78	0.65
2:O:445:ILE:HD12	2:O:546:GLU:OE1	1.97	0.65
3:D:79:LYS:HZ3	5:F:569:THR:CG2	2.10	0.65
2:I:149:LEU:HD11	2:I:451:ARG:CB	2.26	0.65
2:C:170:VAL:HG21	3:D:1065:ALA:HB1	1.79	0.65
2:C:335:THR:HG22	2:C:336:LEU:N	2.11	0.65
2:O:1088:ASP:OD1	2:O:1092:THR:O	2.14	0.65
3:D:482:ALA:O	3:D:488:ASN:ND2	2.29	0.65
3:P:76:LYS:HG3	3:P:77:ARG:HG3	1.79	0.65
3:J:132:LEU:HA	3:J:135:ILE:CD1	2.27	0.64
2:C:1292:THR:CG2	2:C:1293:VAL:H	2.09	0.64
1:G:30:PRO:CB	1:G:198:LEU:HD13	2.27	0.64
5:R:461:ASN:HA	7:8:26:DT:H72	1.77	0.64
3:P:347:VAL:HG12	3:P:348:ASP:O	1.96	0.64
2:O:1286:THR:HG23	3:P:479:GLU:OE2	1.97	0.64
2:O:805:MET:HA	2:O:1100:PRO:CG	2.27	0.64
3:J:269:TYR:O	3:J:273:ILE:HG13	1.96	0.64
5:L:551:LEU:HD13	5:L:559:LEU:HD12	1.79	0.64
3:D:452:LEU:CD1	3:D:625:MET:CE	2.74	0.64
3:J:1046:ILE:HD12	3:J:1059:LEU:HD22	1.77	0.64
3:D:145:VAL:O	3:D:178:ALA:HB1	1.97	0.64
3:J:492:SER:HB3	3:J:499:ILE:HG13	1.79	0.64
2:O:405:PHE:HD1	2:O:406:ASN:OD1	1.79	0.64
3:P:1263:LYS:HB2	3:P:1307:LEU:HD11	1.79	0.64
1:G:231:PHE:CZ	1:H:39:LEU:HB3	2.32	0.64
1:B:57:THR:HG21	1:B:147:GLN:NE2	2.12	0.64
1:M:44:ARG:HA	1:M:183:ILE:CD1	2.28	0.64
2:I:90:VAL:HG12	2:I:91:THR:N	2.13	0.64
3:D:820:ILE:HD11	3:D:884:SER:CB	2.27	0.64
2:O:1283:ALA:HB1	3:P:479:GLU:OE2	1.97	0.64
3:D:1156:LEU:HD22	3:D:1209:VAL:CA	2.20	0.64
1:M:154:PRO:HG2	1:M:157:THR:HG1	1.62	0.64
3:P:697:MET:HE3	3:P:737:ILE:HG21	1.80	0.64
3:J:349:TYR:O	3:J:470:VAL:HG23	1.97	0.64
2:I:1151:LEU:CD2	2:I:1198:LEU:HD12	2.27	0.64
3:J:1095:MET:HB3	3:J:1173:ARG:HH22	1.61	0.64
2:C:1269:ARG:NH1	3:D:340:GLN:HA	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:361:LEU:HD22	3:P:365:GLN:CB	2.27	0.64
2:C:714:VAL:CG1	2:C:787:PRO:HD2	2.27	0.64
1:A:227:GLN:O	1:A:231:PHE:CZ	2.51	0.64
3:D:141:PHE:HD1	3:D:180:MET:HE3	1.63	0.64
3:D:885:VAL:CG1	3:D:886:VAL:N	2.60	0.64
1:G:26:VAL:HG11	1:G:217:ILE:CD1	2.26	0.64
3:D:105:ILE:HG13	3:D:244:VAL:CG2	2.26	0.64
5:L:548:LEU:CD2	5:L:551:LEU:HD12	2.27	0.64
3:D:591:ILE:HG22	3:D:592:VAL:N	2.10	0.64
2:O:90:VAL:HG12	2:O:91:THR:N	2.12	0.64
3:J:68:TYR:C	3:J:92:VAL:HG13	2.16	0.64
3:P:1239:ASP:O	3:P:1243:LEU:HG	1.98	0.64
5:R:101:TYR:OH	5:R:384:LEU:HB3	1.97	0.64
1:M:46:ILE:HG12	1:N:35:PHE:CE1	2.32	0.64
1:A:228:LEU:HA	1:A:231:PHE:HE2	1.53	0.64
3:D:395:LYS:C	3:D:398:LYS:HG3	2.16	0.64
1:B:61:ILE:CD1	1:B:171:LEU:HD12	2.27	0.64
2:C:1293:VAL:O	2:C:1301:ARG:HB3	1.98	0.64
3:P:527:LEU:HD13	3:P:532:GLU:CG	2.20	0.64
6:7:48:DA:H3'	6:7:49:DG:H5''	1.78	0.64
3:J:320:ASN:OD1	3:J:321:LYS:N	2.28	0.64
3:D:130:MET:SD	3:D:135:ILE:HG23	2.37	0.64
3:D:796:LEU:CG	3:D:797:THR:N	2.53	0.64
2:O:149:LEU:HG	2:O:451:ARG:HE	1.61	0.64
3:D:1280:VAL:HG12	3:D:1281:GLU:N	2.12	0.64
2:C:257:ALA:CB	2:C:262:TYR:CE2	2.81	0.64
3:P:264:ASP:OD1	5:R:508:GLU:HB2	1.97	0.64
1:B:88:LEU:CD2	1:B:128:HIS:CD2	2.81	0.64
3:J:480:ALA:HA	3:J:484:MET:SD	2.37	0.64
2:I:149:LEU:HD21	2:I:451:ARG:HE	1.60	0.64
3:D:673:VAL:HG11	3:D:678:ARG:HB2	1.78	0.64
6:1:21:DC:H2''	6:1:22:DC:C6	2.32	0.64
5:R:426:LYS:HG2	6:7:39:DA:H3'	1.78	0.64
2:I:1333:LEU:HD21	3:J:327:LEU:HB3	1.79	0.64
5:F:586:ARG:HG3	5:F:587:ILE:HD13	1.80	0.64
3:J:185:ILE:HG22	3:J:189:LEU:CD1	2.24	0.64
3:P:1349:GLU:O	3:P:1353:VAL:HG13	1.97	0.64
3:D:30:ILE:HG23	3:D:243:PRO:HB3	1.80	0.64
5:L:554:ARG:HG3	5:L:555:GLU:N	2.12	0.64
2:I:898:GLU:O	2:I:901:LEU:HB3	1.98	0.64
3:P:963:VAL:HG23	3:P:975:ILE:HG23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:LEU:HA	1:A:82:LEU:HD12	1.79	0.64
2:I:75:LEU:HD21	2:I:127:ILE:CD1	2.28	0.64
2:O:12:ARG:HH11	2:O:12:ARG:HG3	1.62	0.64
2:C:818:VAL:HG12	2:C:1096:ILE:HG12	1.80	0.64
2:I:736:VAL:HG23	2:I:747:GLY:O	1.98	0.64
2:O:894:GLN:O	2:O:894:GLN:HG3	1.97	0.64
3:J:233:LYS:HG2	3:J:234:PRO:HD2	1.79	0.64
1:M:44:ARG:HA	1:M:183:ILE:HD11	1.80	0.64
3:P:421:VAL:HG12	3:P:469:HIS:O	1.97	0.64
2:I:559:CYS:HB2	2:I:662:SER:HB3	1.78	0.64
3:D:797:THR:HG21	3:D:924:GLY:HA3	1.79	0.64
3:J:796:LEU:HG	3:J:797:THR:N	2.08	0.64
3:J:105:ILE:HG13	3:J:244:VAL:HG21	1.80	0.64
2:O:564:PRO:HG3	8:9:13:GTP:O2A	1.97	0.64
2:I:1048:LYS:C	2:I:1049:ILE:CG1	2.66	0.64
3:P:1040:MET:HE3	3:P:1061:VAL:HG22	1.80	0.64
5:R:355:ILE:HD12	5:R:355:ILE:H	1.63	0.64
5:R:166:VAL:HG12	5:R:167:ASP:H	1.63	0.64
3:D:955:LYS:HG3	3:D:1011:VAL:O	1.98	0.64
1:M:35:PHE:O	1:M:39:LEU:CD1	2.45	0.64
2:C:1073:LYS:HZ2	8:3:15:G:C5'	2.11	0.64
3:D:474:LEU:CD1	4:E:28:ARG:CG	2.76	0.64
5:L:102:MET:CE	6:4:42:DG:N3	2.54	0.64
2:C:262:TYR:CZ	2:C:277:LEU:HD13	2.32	0.64
1:N:199:ASP:OD1	1:N:199:ASP:N	2.30	0.64
2:C:297:VAL:HG13	2:C:317:LEU:HD21	1.79	0.64
3:P:259:ARG:NH1	5:R:502:LYS:HG2	2.13	0.64
2:I:1200:LYS:HG3	2:I:1206:THR:CG2	2.27	0.64
1:B:75:GLN:HE21	1:B:134:THR:HG22	1.61	0.64
3:J:506:VAL:HG12	3:J:510:LEU:HD11	1.79	0.64
2:O:734:ILE:HG23	2:O:749:ASP:HB2	1.78	0.64
3:J:330:MET:SD	3:J:337:ARG:NH2	2.71	0.64
2:O:378:ARG:HG2	2:O:379:GLU:N	2.11	0.64
2:C:155:VAL:HG22	2:C:405:PHE:CD2	2.33	0.64
2:O:144:VAL:HG21	2:O:515:MET:SD	2.37	0.64
5:F:468:ARG:HH22	7:2:25:DA:H2'	1.63	0.64
3:D:1353:VAL:HG23	3:D:1355:ARG:HB2	1.78	0.64
5:L:407:GLU:HA	5:L:410:ILE:CD1	2.28	0.64
3:J:513:MET:SD	3:J:579:LEU:HD21	2.37	0.64
2:I:157:PHE:O	2:I:442:VAL:HG13	1.97	0.64
3:P:53:ARG:O	3:P:58:CYS:CB	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:536:LEU:HD22	3:D:542:ALA:CB	2.28	0.64
3:D:1078:LEU:HG	3:D:1101:LEU:HD11	1.78	0.64
3:D:1011:VAL:HG11	3:D:1017:VAL:HG11	1.78	0.64
3:J:878:ASP:OD1	3:J:878:ASP:N	2.29	0.64
3:J:334:LYS:O	3:J:339:ARG:HB2	1.98	0.64
3:J:339:ARG:CZ	3:J:798:ARG:HH12	2.11	0.64
1:M:106:GLY:HA2	1:M:136:GLU:HA	1.79	0.64
5:R:440:THR:O	5:R:443:ILE:HG22	1.98	0.64
5:R:583:THR:CG2	5:R:586:ARG:CB	2.57	0.64
3:D:316:ILE:CG2	3:D:324:LEU:HD12	2.27	0.64
3:D:251:PRO:O	5:F:507:MET:HE3	1.98	0.64
3:D:1035:VAL:HG22	3:D:1121:LEU:HD21	1.80	0.64
2:I:589:THR:CG2	2:I:590:PRO:HD2	2.28	0.64
2:C:87:ILE:HG22	2:C:934:PHE:HZ	1.62	0.64
2:C:363:LEU:HB3	2:C:381:ALA:HB1	1.80	0.64
3:J:435:GLN:HB3	3:J:437:PHE:CE1	2.33	0.64
1:B:82:LEU:CD2	1:B:173:VAL:HG22	2.28	0.64
1:B:14:VAL:HG21	1:B:29:GLU:HG2	1.79	0.64
1:M:41:ASN:ND2	2:O:1217:THR:C	2.52	0.64
3:D:377:PHE:C	3:D:379:PRO:HD2	2.17	0.64
4:Q:2:ALA:N	4:Q:51:LEU:HD13	2.12	0.64
2:O:673:HIS:ND1	3:P:763:PHE:O	2.31	0.64
2:O:194:LEU:CD1	2:O:432:LEU:HD21	2.28	0.64
5:R:452:ILE:CG2	5:R:456:MET:HG2	2.27	0.64
2:O:182:SER:O	2:O:395:TYR:HE1	1.81	0.64
3:J:864:LEU:CD1	3:J:872:LEU:HD11	2.28	0.64
2:O:1198:LEU:O	2:O:1198:LEU:HD12	1.97	0.64
3:D:117:LEU:CA	3:D:124:ILE:HD11	2.28	0.64
2:O:885:GLY:HA2	2:O:917:SER:OG	1.98	0.64
2:C:82:VAL:CG2	2:C:83:GLN:N	2.60	0.64
3:J:97:VAL:CG1	3:J:101:ARG:HD2	2.28	0.64
1:B:166:ARG:HG2	1:B:167:PRO:HD2	1.80	0.64
5:R:530:LEU:HB2	5:R:533:ASP:OD1	1.97	0.64
2:C:1340:GLU:HB2	3:D:19:ALA:O	1.98	0.64
2:C:1299:ASN:OD1	2:C:1299:ASN:N	2.29	0.64
2:I:486:THR:HG23	2:I:487:LEU:HG	1.80	0.64
1:A:224:LEU:CD1	1:A:224:LEU:C	2.63	0.63
5:F:458:GLU:OE2	7:2:28:DG:H8	1.80	0.63
3:D:431:ARG:HH22	3:D:904:ALA:CB	2.09	0.63
3:D:843:VAL:HG21	3:D:897:HIS:O	1.98	0.63
3:P:795:TYR:CE1	7:8:12:DG:H5'	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:331:LYS:C	2:O:332:ARG:HG3	2.18	0.63
3:J:867:GLN:O	3:J:870:ASP:HB2	1.98	0.63
2:I:1044:PRO:HB3	5:L:498:LEU:HD13	1.80	0.63
2:O:1280:ALA:HB1	3:P:431:ARG:HD2	1.81	0.63
1:A:168:ILE:HD13	1:A:168:ILE:N	2.13	0.63
1:B:85:LEU:HD21	1:B:130:ILE:HG23	1.80	0.63
2:I:237:LEU:HD11	2:I:289:VAL:CG2	2.25	0.63
3:J:182:ALA:CA	3:J:185:ILE:HD12	2.23	0.63
1:G:11:PRO:HA	1:G:30:PRO:HD2	1.79	0.63
2:O:1142:ARG:HH12	2:O:1169:VAL:HG21	1.63	0.63
3:J:882:VAL:CG2	3:J:882:VAL:O	2.45	0.63
2:I:297:VAL:HG12	2:I:317:LEU:CD2	2.28	0.63
3:P:1176:VAL:HG22	3:P:1187:GLU:HG2	1.79	0.63
3:D:70:CYS:HB2	3:D:90:VAL:CB	2.27	0.63
5:R:451:ARG:HH12	6:7:32:DA:P	2.21	0.63
5:F:412:LEU:O	5:F:416:VAL:HG23	1.97	0.63
3:P:146:VAL:CG2	3:P:158:GLN:HB3	2.28	0.63
3:D:1243:LEU:HD22	3:D:1244:GLN:NE2	2.13	0.63
2:C:1104:PRO:HG3	3:D:725:MET:HE1	1.80	0.63
3:D:44:ILE:HD12	3:D:49:PHE:O	1.99	0.63
5:F:338:HIS:O	5:F:341:LEU:HB3	1.98	0.63
3:P:1109:LEU:HD22	3:P:1113:VAL:HG21	1.79	0.63
3:D:1179:PRO:HD2	3:D:1182:GLY:O	1.97	0.63
3:D:121:PRO:O	3:D:122:SER:HB3	1.96	0.63
2:C:669:PRO:HB3	2:C:1184:THR:CG2	2.28	0.63
2:O:1129:ASN:OD1	2:O:1133:LYS:CE	2.42	0.63
1:H:83:LEU:HD11	3:J:526:VAL:O	1.98	0.63
2:I:178:PRO:CA	2:I:397:LEU:HD23	2.28	0.63
2:I:167:SER:HB3	3:J:1064:SER:CB	2.24	0.63
2:O:369:MET:HG3	2:O:370:MET:N	2.11	0.63
3:J:265:LEU:HA	3:J:268:LEU:HD12	1.80	0.63
2:I:297:VAL:O	2:I:336:LEU:HD11	1.98	0.63
3:P:1369:ARG:HG2	3:P:1372:ARG:NH1	2.14	0.63
2:I:70:TYR:CE1	2:I:72:SER:HA	2.32	0.63
3:J:1022:PRO:HB2	3:J:1023:HIS:CD2	2.33	0.63
3:P:121:PRO:O	3:P:122:SER:HB3	1.97	0.63
3:J:614:LEU:HD23	4:K:7:GLN:OE1	1.98	0.63
2:C:1073:LYS:NZ	8:3:15:G:P	2.71	0.63
5:L:451:ARG:HD2	5:L:453:PRO:HD3	1.80	0.63
3:D:503:SER:O	3:D:506:VAL:CG2	2.44	0.63
2:O:371:ARG:HB3	5:R:99:ARG:CZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:67:GLU:HA	1:M:78:ILE:HG21	1.80	0.63
3:D:849:LEU:O	3:D:850:LYS:HB2	1.97	0.63
2:I:215:TYR:OH	2:I:422:LYS:NZ	2.31	0.63
3:D:1051:ASP:HB2	3:D:1056:LEU:O	1.98	0.63
3:J:694:SER:OG	3:J:738:ARG:NE	2.32	0.63
3:D:645:VAL:CG2	3:D:700:ASN:HD22	2.12	0.63
2:I:1210:ILE:HG22	2:I:1211:ARG:N	2.12	0.63
2:O:77:GLU:HB3	2:O:78:PRO:HD2	1.80	0.63
3:D:742:GLY:O	3:D:762:ASN:HB3	1.99	0.63
3:J:1263:LYS:HB2	3:J:1307:LEU:CD1	2.29	0.63
5:F:585:GLU:CD	5:F:588:ARG:HB3	2.19	0.63
3:D:1285:VAL:HG13	3:D:1286:LYS:N	2.12	0.63
2:I:32:LEU:HA	2:I:130:MET:HE1	1.81	0.63
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.33	0.63
5:L:584:ARG:O	5:L:587:ILE:CG1	2.39	0.63
2:O:804:PHE:O	2:O:805:MET:CB	2.47	0.63
1:H:82:LEU:HD13	1:H:173:VAL:HG13	1.80	0.63
1:H:82:LEU:CD2	1:H:173:VAL:HG21	2.21	0.63
3:J:786:THR:HG23	3:J:787:ALA:N	2.13	0.63
3:D:116:PHE:O	3:D:124:ILE:HG13	1.99	0.63
2:O:1237:HIS:CG	2:O:1242:LYS:NZ	2.66	0.63
3:P:1078:LEU:HB2	3:P:1121:LEU:HD13	1.80	0.63
2:O:167:SER:HB3	3:P:1064:SER:HB2	1.81	0.63
3:D:264:ASP:OD2	5:F:508:GLU:HB2	1.98	0.63
3:D:1274:PHE:HA	3:D:1278:GLU:HG3	1.79	0.63
1:G:57:THR:HG22	1:G:58:GLU:HG3	1.81	0.63
3:P:847:ASP:OD1	3:P:860:ARG:HB3	1.98	0.63
3:P:337:ARG:HD2	3:P:341:ASN:ND2	2.12	0.63
1:B:61:ILE:CD1	1:B:64:VAL:CG1	2.76	0.63
3:J:918:ILE:HG22	3:J:919:ALA:N	2.14	0.63
3:D:613:GLY:O	3:D:617:THR:HG23	1.99	0.63
2:I:191:LYS:O	2:I:192:ASP:HB2	1.98	0.63
3:D:844:THR:HG21	3:D:864:LEU:HD21	1.80	0.63
2:O:178:PRO:HB3	2:O:395:TYR:CE2	2.33	0.63
2:O:230:PHE:HE1	2:O:292:ILE:HD11	1.63	0.63
5:F:402:LEU:HA	5:F:405:ILE:CD1	2.24	0.63
1:G:31:LEU:CD1	1:G:201:LEU:HB2	2.28	0.63
2:O:573:ASN:OD1	3:P:780:ARG:NH2	2.30	0.63
2:O:363:LEU:HD22	2:O:385:PHE:HB2	1.79	0.63
3:P:1029:THR:HG21	3:P:1080:ILE:HD11	1.81	0.63
1:A:86:LYS:HE3	1:A:173:VAL:HG12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:851:THR:CG2	2:I:852:ALA:H	2.11	0.63
3:D:197:GLU:O	3:D:201:LEU:HG	1.98	0.63
3:J:1264:ALA:HB1	3:J:1303:SER:O	1.98	0.63
2:I:967:LEU:HD23	2:I:1021:LEU:HD11	1.79	0.63
5:R:550:GLY:HA3	5:R:603:ARG:NH2	2.14	0.63
2:O:782:VAL:HG21	2:O:792:GLY:HA2	1.80	0.63
5:L:452:ILE:CG2	5:L:456:MET:HB3	2.29	0.63
2:I:870:ILE:HG21	2:I:944:ARG:CD	2.28	0.63
2:O:1100:PRO:HG2	3:P:637:ALA:O	1.98	0.63
2:I:489:PRO:O	2:I:493:ILE:HD12	1.98	0.63
2:O:1077:SER:HB3	3:P:357:VAL:HG23	1.80	0.63
3:P:501:VAL:CG1	3:P:502:PRO:HD2	2.29	0.63
7:5:45:DG:N2	7:5:46:DT:O2	2.31	0.63
3:P:1319:PHE:HD2	3:P:1340:LYS:CD	2.11	0.63
5:F:377:LYS:O	5:F:381:GLU:HG3	1.97	0.63
2:I:1166:ASP:O	2:I:1169:VAL:HB	1.97	0.63
5:F:339:ARG:O	5:F:342:GLN:HB2	1.98	0.63
2:O:1307:ASN:HB3	2:O:1312:ASN:HB3	1.80	0.63
3:P:572:THR:OG1	3:P:573:THR:N	2.31	0.63
1:M:40:GLY:CA	1:M:43:LEU:CD1	2.77	0.63
1:B:217:ILE:HD13	1:B:217:ILE:H	1.61	0.63
1:M:224:LEU:CD1	1:M:224:LEU:C	2.42	0.63
3:J:770:LEU:O	3:J:774:ILE:CG1	2.39	0.63
6:7:53:DG:H1'	6:7:54:DA:H5''	1.81	0.63
1:G:59:VAL:HG22	1:G:144:ILE:CG2	2.17	0.63
5:F:91:ILE:HG23	5:F:94:THR:H	1.62	0.63
2:O:149:LEU:HD12	2:O:452:ARG:O	1.98	0.63
3:D:373:ALA:HA	3:D:376:LEU:HD12	1.80	0.63
6:7:45:DT:H2'	6:7:46:DG:O4'	1.99	0.63
5:L:476:ARG:HG3	5:L:477:GLU:H	1.61	0.63
2:I:726:TYR:HB3	2:I:733:VAL:HG22	1.79	0.63
3:J:79:LYS:HD2	5:L:569:THR:CG2	2.27	0.63
2:I:519:ASN:OD1	2:I:522:SER:HB2	1.98	0.63
2:C:1309:VAL:HG13	3:D:383:GLY:CA	2.29	0.63
5:F:456:MET:O	5:F:460:ILE:HG13	1.97	0.63
1:M:228:LEU:CD2	1:N:221:ALA:HB1	2.28	0.63
3:D:1328:THR:HG22	3:D:1332:LEU:CD1	2.28	0.63
5:R:460:ILE:O	5:R:463:LEU:HB2	1.99	0.63
3:P:1326:GLN:NE2	7:8:11:DA:H4'	2.14	0.63
2:I:1276:TRP:HE1	3:J:1348:LYS:CE	2.12	0.63
2:I:296:VAL:HG12	2:I:297:VAL:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:431:ARG:NH2	3:J:904:ALA:CB	2.62	0.63
3:D:68:TYR:HA	3:D:92:VAL:HG13	1.80	0.63
5:R:137:TYR:CG	5:R:138:PRO:HD2	2.34	0.63
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.62	0.63
3:J:373:ALA:CA	3:J:376:LEU:HD12	2.17	0.62
5:F:585:GLU:HG3	7:2:46:DT:C7	2.24	0.62
1:A:224:LEU:C	1:A:224:LEU:HD12	2.15	0.62
3:D:111:THR:HG23	3:D:300:GLN:NE2	2.13	0.62
1:A:35:PHE:HE2	1:B:50:SER:HG	1.46	0.62
3:P:341:ASN:O	3:P:345:LYS:HE2	1.99	0.62
5:L:102:MET:HE1	5:L:105:MET:HE1	1.80	0.62
3:D:915:ILE:O	3:D:918:ILE:CG2	2.46	0.62
3:J:111:THR:HG23	3:J:112:ALA:N	2.13	0.62
2:O:1068:GLY:HA3	2:O:1232:MET:HE1	1.81	0.62
5:R:573:LEU:HB3	7:8:45:DG:OP2	1.99	0.62
3:D:1218:HIS:CD2	3:D:1306:LEU:HD23	2.34	0.62
2:O:191:LYS:HA	3:P:1069:ALA:HB2	1.80	0.62
3:D:858:VAL:HG11	3:D:872:LEU:CD1	2.29	0.62
3:J:140:TYR:O	3:J:141:PHE:HB2	1.98	0.62
2:C:184:LEU:HB3	2:C:186:PHE:HE2	1.64	0.62
2:O:368:ARG:HD3	5:R:90:GLU:HG2	1.79	0.62
2:C:1225:VAL:CG1	2:C:1226:THR:N	2.62	0.62
3:J:121:PRO:O	3:J:122:SER:HB3	1.98	0.62
3:J:116:PHE:CE1	3:J:1333:THR:HG22	2.34	0.62
3:J:849:LEU:HD21	3:J:857:LEU:CA	2.15	0.62
3:J:805:GLN:CA	3:J:1347:LEU:HD12	2.29	0.62
1:N:47:LEU:HD13	1:N:183:ILE:HG21	1.81	0.62
3:P:501:VAL:HG12	3:P:502:PRO:HD2	1.81	0.62
2:O:870:ILE:HG21	2:O:944:ARG:NE	2.12	0.62
3:P:1101:LEU:HD22	3:P:1122:ALA:CB	2.27	0.62
2:C:213:LEU:O	2:C:214:ASN:HB3	1.99	0.62
5:R:568:ASN:N	5:R:568:ASN:OD1	2.32	0.62
4:K:79:GLU:HG2	4:K:79:GLU:O	1.99	0.62
2:C:514:PHE:CZ	7:2:19:DA:H1'	2.34	0.62
2:O:1225:VAL:CG1	2:O:1226:THR:N	2.61	0.62
3:J:115:TRP:CE2	3:J:1329:THR:HG22	2.32	0.62
3:J:130:MET:CE	3:J:135:ILE:HG12	2.29	0.62
2:C:1284:ALA:HB3	3:D:1361:THR:CG2	2.29	0.62
3:P:499:ILE:HG22	3:P:500:ILE:CG1	2.29	0.62
1:M:38:THR:HG23	1:N:42:ALA:CB	2.29	0.62
5:L:102:MET:HE2	6:4:42:DG:C2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:30:PRO:HB2	1:G:198:LEU:HD13	1.79	0.62
6:4:40:DA:H2''	6:4:41:DT:H5'	1.81	0.62
5:L:386:LEU:CD1	6:4:41:DT:O4'	2.43	0.62
2:C:75:LEU:CD2	2:C:94:ALA:CB	2.73	0.62
3:J:1270:GLY:HA2	3:J:1298:VAL:O	1.98	0.62
5:F:133:SER:HB3	5:F:365:MET:SD	2.40	0.62
2:O:363:LEU:CD2	2:O:385:PHE:HB2	2.29	0.62
2:I:390:PHE:HD2	2:I:390:PHE:N	1.98	0.62
3:P:42:GLU:HG2	5:R:451:ARG:HB3	1.80	0.62
5:L:265:GLN:O	5:L:269:LEU:HG	2.00	0.62
3:D:709:ARG:O	3:D:709:ARG:HG3	1.99	0.62
2:O:372:PRO:O	5:R:94:THR:OG1	2.09	0.62
3:D:416:ILE:CD1	3:D:441:LEU:HG	2.29	0.62
3:P:918:ILE:HG22	3:P:919:ALA:N	2.14	0.62
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.00	0.62
3:J:227:PHE:HE1	3:J:234:PRO:HD3	1.65	0.62
3:J:899:TYR:CD1	3:J:915:ILE:HD13	2.33	0.62
2:C:1289:GLU:OE1	3:D:472:LEU:HB2	1.98	0.62
3:D:490:ILE:HG23	3:D:500:ILE:HG13	1.82	0.62
3:D:1250:ASP:O	3:D:1254:GLU:HG3	1.99	0.62
2:O:1125:GLY:HA2	2:O:1128:ILE:HD12	1.82	0.62
1:H:86:LYS:HE2	1:H:174:ASP:HB2	1.80	0.62
4:E:53:GLU:CB	4:E:59:ILE:HG13	2.28	0.62
5:L:597:LYS:O	5:L:600:HIS:HB2	1.98	0.62
3:D:845:ALA:CB	3:D:881:LYS:HD3	2.30	0.62
2:O:1184:THR:CG2	2:O:1184:THR:O	2.47	0.62
4:E:60:ASN:OD1	4:E:62:GLN:N	2.28	0.62
3:P:1078:LEU:HD12	3:P:1121:LEU:HB3	1.80	0.62
2:I:557:ARG:O	2:I:575:LEU:HD12	1.99	0.62
3:J:1029:THR:HG23	3:J:1121:LEU:CD1	2.28	0.62
2:O:1081:PRO:HB3	2:O:1083:GLU:OE1	1.98	0.62
6:1:45:DT:H2''	6:1:46:DG:O4'	1.98	0.62
2:O:935:THR:HA	2:O:1048:LYS:HG2	1.80	0.62
2:I:1225:VAL:HG13	3:J:638:SER:HB3	1.82	0.62
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.72	0.62
3:J:322:ARG:NH2	5:L:506:SER:OG	2.32	0.62
3:D:796:LEU:CD1	3:D:800:LEU:HD11	2.29	0.62
2:O:448:LEU:CD2	2:O:448:LEU:C	2.68	0.62
3:J:111:THR:CG2	3:J:300:GLN:HE22	2.05	0.62
2:C:282:VAL:HG11	2:C:285:ILE:HG13	1.81	0.62
3:J:1343:GLU:O	3:J:1344:LEU:HB2	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:384:LYS:HZ2	3:P:415:VAL:HG22	1.64	0.62
3:P:147:ILE:HD12	3:P:177:ASP:HB3	1.81	0.62
5:F:503:GLU:CB	5:F:504:PRO:HD2	2.29	0.62
3:J:945:ALA:CB	3:J:1023:HIS:CE1	2.83	0.62
2:I:300:ASP:OD1	2:I:300:ASP:N	2.31	0.62
2:I:82:VAL:O	2:I:86:GLN:HG3	2.00	0.62
3:P:492:SER:O	3:P:495:ASN:O	2.18	0.62
2:I:230:PHE:CE1	2:I:292:ILE:HG13	2.34	0.62
5:F:452:ILE:HG22	5:F:457:ILE:HG12	1.81	0.62
2:I:211:ARG:NH1	2:I:357:ASN:O	2.33	0.62
2:I:138:ILE:N	2:I:138:ILE:HD13	2.11	0.62
2:I:169:LYS:HD3	3:J:1068:THR:HA	1.82	0.62
5:L:583:THR:HG22	5:L:587:ILE:CD1	2.28	0.62
2:O:1294:LYS:HD3	3:P:347:VAL:HG13	1.82	0.62
2:O:184:LEU:CG	2:O:389:PHE:CZ	2.83	0.62
1:H:28:LEU:HD12	1:H:201:LEU:HB2	1.82	0.62
1:B:31:LEU:HD11	1:B:39:LEU:HD12	1.80	0.62
1:N:99:ILE:HG12	1:N:145:LYS:CE	2.30	0.62
5:L:310:GLU:OE2	5:L:355:ILE:HG21	1.99	0.62
2:I:1337:ILE:CD1	3:J:22:ILE:HG12	2.20	0.62
2:C:521:LEU:CD2	2:C:686:GLN:HB3	2.29	0.62
3:D:1226:VAL:O	3:D:1229:VAL:HG12	1.94	0.62
2:O:245:ARG:HD3	2:O:337:PHE:CE1	2.34	0.62
3:D:820:ILE:O	3:D:882:VAL:HG13	1.98	0.62
2:I:870:ILE:HG13	2:I:944:ARG:CB	2.30	0.62
2:I:550:VAL:HG22	3:J:780:ARG:CD	2.28	0.62
6:4:50:DT:H3'	6:4:51:DC:H5'	1.80	0.62
3:P:997:VAL:HG13	3:P:1001:ALA:CB	2.29	0.62
2:I:390:PHE:HD2	2:I:390:PHE:H	1.45	0.62
3:P:398:LYS:HE2	5:R:532:LEU:HD21	1.81	0.62
2:I:967:LEU:CD2	2:I:1021:LEU:HD11	2.30	0.62
2:I:1256:GLN:HE22	3:J:96:LYS:HZ1	1.48	0.62
2:I:1180:MET:HG3	2:I:1181:PRO:HD2	1.82	0.62
2:O:678:ARG:CZ	2:O:1106:ARG:HD2	2.30	0.62
3:P:849:LEU:HA	3:P:856:ILE:O	1.99	0.62
1:G:215:GLU:HG2	1:G:219:ARG:HH21	1.64	0.62
3:J:1210:ILE:HD12	3:J:1210:ILE:N	2.14	0.62
2:I:505:PHE:O	2:I:509:SER:HB3	2.00	0.62
3:J:379:PRO:HA	3:J:382:TYR:HD2	1.65	0.62
2:C:12:ARG:NH2	2:C:698:PRO:O	2.29	0.62
2:C:1087:TYR:HE1	2:C:1215:GLY:HA2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:136:PHE:CB	2:I:138:ILE:HD11	2.29	0.62
3:P:1052:GLU:HG2	3:P:1053:LEU:N	2.09	0.62
2:I:1107:MET:CE	3:J:763:PHE:CE2	2.82	0.62
3:J:1342:ASP:OD1	3:J:1344:LEU:N	2.33	0.62
3:P:53:ARG:O	3:P:58:CYS:SG	2.58	0.62
2:C:183:TRP:HZ3	6:1:47:DC:N4	1.98	0.62
2:O:38:PHE:O	2:O:49:LEU:HD12	2.00	0.62
2:I:104:ILE:CD1	2:I:484:LEU:O	2.47	0.62
3:D:1159:ILE:HG22	3:D:1160:SER:N	2.15	0.62
3:D:1243:LEU:HD13	3:D:1244:GLN:HE21	1.64	0.62
3:D:1082:ASP:OD1	3:D:1086:ASN:HB2	2.00	0.62
3:J:127:LEU:HD11	3:J:227:PHE:HE2	1.65	0.62
1:M:45:ARG:HD3	1:N:38:THR:CB	2.30	0.62
1:A:235:ARG:HA	1:B:218:ARG:CZ	2.30	0.62
1:B:65:LEU:O	1:B:169:GLY:CA	2.46	0.62
3:J:1226:VAL:HG21	3:J:1304:ARG:CZ	2.29	0.62
3:J:886:VAL:HG13	3:J:1261:LEU:HD12	1.82	0.62
7:5:23:DT:H3'	7:5:24:DT:H5''	1.81	0.62
7:5:25:DA:C1'	7:5:26:DT:H5''	2.19	0.62
3:P:844:THR:HA	3:P:883:ARG:H	1.63	0.62
2:O:448:LEU:CD2	2:O:448:LEU:O	2.42	0.62
2:C:255:ILE:CD1	2:C:285:ILE:CD1	2.77	0.62
3:J:782:GLY:O	3:J:935:PHE:HB3	2.00	0.62
2:O:807:TRP:CD1	2:O:817:LEU:HD11	2.35	0.62
2:O:1049:ILE:CG2	2:O:1050:VAL:N	2.63	0.62
2:I:804:PHE:O	2:I:805:MET:HB3	1.99	0.62
5:L:490:PRO:O	5:L:494:ILE:HD13	2.00	0.62
3:J:88:CYS:SG	10:J:1501:ZN:ZN	1.88	0.62
3:D:808:VAL:HG12	3:D:809:VAL:N	2.13	0.62
5:R:407:GLU:OE2	5:R:442:SER:HB3	2.00	0.62
2:I:890:LYS:HZ2	2:I:893:THR:HG23	1.64	0.62
6:7:21:DC:O2	7:8:42:DG:N2	2.30	0.62
3:J:109:SER:HB2	3:J:296:LYS:CE	2.29	0.62
1:N:54:CYS:SG	1:N:148:ARG:HA	2.40	0.62
3:J:899:TYR:CG	3:J:915:ILE:HD13	2.35	0.62
5:L:586:ARG:HD3	6:4:13:DC:H5	1.65	0.62
2:O:811:ASN:HD22	2:O:1099:ASN:N	1.97	0.62
2:I:708:VAL:HG11	2:I:794:LEU:HD22	1.81	0.62
3:D:619:ILE:HG22	3:D:620:PHE:CA	2.29	0.62
2:C:253:PHE:CG	2:C:288:PRO:HD2	2.34	0.62
2:I:496:LYS:HB3	2:I:497:PRO:CD	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:514:THR:HG21	3:D:596:LEU:CG	2.24	0.62
3:J:741:ALA:C	3:J:762:ASN:HD22	2.02	0.62
3:P:587:LEU:HD21	3:P:612:LEU:CD2	2.27	0.62
3:J:423:LEU:C	3:J:466:MET:HE1	2.19	0.62
5:L:594:ALA:O	5:L:598:LEU:HG	1.99	0.62
3:P:251:PRO:HB2	5:R:507:MET:HE1	1.82	0.62
2:O:205:PRO:HB2	2:O:207:THR:HG22	1.81	0.62
5:L:216:LEU:O	5:L:220:LYS:HG3	1.98	0.62
3:J:97:VAL:HG12	3:J:101:ARG:HG3	1.80	0.62
2:O:759:SER:CA	2:O:765:ILE:HD11	2.30	0.62
5:R:324:LYS:HB3	5:R:325:PRO:CD	2.29	0.62
5:F:455:HIS:HD2	6:1:31:DT:H72	1.65	0.62
2:C:551:HIS:CE1	2:C:553:THR:HG1	2.17	0.61
3:D:1230:THR:HA	3:D:1233:ILE:HD12	1.82	0.61
1:M:224:LEU:HD23	1:N:228:LEU:CG	2.28	0.61
2:C:13:LYS:CE	2:C:1149:TYR:O	2.48	0.61
2:I:1326:LEU:HD21	3:J:342:LEU:HD13	1.82	0.61
5:L:383:ASN:ND2	6:4:41:DT:H3	1.96	0.61
3:J:509:GLY:O	3:J:513:MET:HG3	1.99	0.61
2:O:374:GLU:HB2	5:R:99:ARG:HD2	1.82	0.61
2:I:1098:LEU:HD23	2:I:1099:ASN:H	1.65	0.61
2:O:1184:THR:OG1	2:O:1189:GLY:CA	2.48	0.61
5:L:91:ILE:O	5:L:91:ILE:CG2	2.46	0.61
3:D:536:LEU:HD22	3:D:542:ALA:HB3	1.81	0.61
3:J:520:ALA:HB3	3:J:546:ALA:HB2	1.80	0.61
3:J:519:ASN:HD21	3:J:709:ARG:HA	1.64	0.61
2:C:810:TYR:CZ	3:D:359:PRO:HG2	2.35	0.61
1:N:214:GLU:HA	1:N:217:ILE:HD12	1.82	0.61
2:C:390:PHE:CD2	2:C:390:PHE:N	2.68	0.61
3:D:65:VAL:HG12	3:D:66:LYS:HG3	1.81	0.61
1:A:19:VAL:HG12	1:A:20:SER:N	2.13	0.61
2:I:230:PHE:HE1	2:I:292:ILE:HG13	1.64	0.61
3:J:111:THR:CG2	3:J:300:GLN:NE2	2.60	0.61
3:J:105:ILE:CD1	3:J:244:VAL:CG2	2.78	0.61
2:O:371:ARG:HA	5:R:99:ARG:HH21	1.65	0.61
2:C:1116:HIS:CD2	3:D:641:ILE:HG13	2.35	0.61
2:I:387:ASN:HA	2:I:391:SER:HB2	1.81	0.61
3:D:952:VAL:HG11	3:D:1011:VAL:HG21	1.82	0.61
3:D:712:GLN:O	3:D:713:GLU:HG2	2.00	0.61
6:1:42:DG:H3'	6:1:42:DG:P	2.40	0.61
2:I:1299:ASN:O	2:I:1302:THR:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:388:ILE:HG21	6:7:42:DG:H5'	1.82	0.61
1:G:224:LEU:HD23	1:H:228:LEU:HD21	1.82	0.61
2:I:871:VAL:HG23	2:I:883:LEU:O	2.00	0.61
5:F:166:VAL:HG11	5:F:212:ILE:HG13	1.82	0.61
3:P:1250:ASP:N	3:P:1250:ASP:OD1	2.31	0.61
3:D:79:LYS:NZ	5:F:569:THR:CG2	2.62	0.61
5:R:465:ARG:HH12	7:8:27:DA:H5'	1.63	0.61
2:O:790:ASP:O	2:O:792:GLY:N	2.33	0.61
6:1:45:DT:C2'	6:1:46:DG:O4'	2.49	0.61
5:R:288:MET:SD	5:R:299:LYS:HE2	2.41	0.61
1:G:100:LEU:HD21	1:G:118:ASP:HB2	1.81	0.61
2:C:1040:ASP:O	2:C:1042:LEU:HG	1.99	0.61
3:P:128:LEU:HD11	3:P:189:LEU:HD21	1.82	0.61
3:J:22:ILE:CD1	3:J:1319:PHE:CE1	2.83	0.61
5:F:458:GLU:CA	5:F:461:ASN:HD21	2.05	0.61
2:O:453:ILE:HG12	2:O:585:GLY:O	2.00	0.61
2:I:333:ILE:HG22	2:I:334:GLU:N	2.13	0.61
3:D:625:MET:HG2	3:D:629:PHE:HE2	1.65	0.61
3:P:805:GLN:HB2	3:P:1347:LEU:CD1	2.30	0.61
2:O:708:VAL:HB	2:O:794:LEU:HD13	1.81	0.61
2:I:358:ASP:OD2	2:I:360:LEU:HB2	1.99	0.61
2:I:402:ARG:HD2	2:I:416:GLY:HA3	1.82	0.61
2:C:12:ARG:HG3	2:C:1181:PRO:O	2.01	0.61
3:D:185:ILE:O	3:D:189:LEU:CD1	2.48	0.61
5:F:457:ILE:O	5:F:461:ASN:CG	2.38	0.61
1:N:55:ALA:O	1:N:146:VAL:HG13	2.01	0.61
1:G:67:GLU:HA	1:G:78:ILE:HG21	1.80	0.61
2:O:297:VAL:HG22	2:O:315:MET:O	2.01	0.61
5:L:503:GLU:HB3	5:L:504:PRO:HD2	1.82	0.61
3:D:1344:LEU:HD22	3:D:1349:GLU:HB3	1.83	0.61
3:D:886:VAL:HG22	3:D:1258:ARG:HB2	1.80	0.61
3:D:835:LEU:O	3:D:839:VAL:HB	1.99	0.61
1:G:11:PRO:O	1:H:230:ALA:HB2	2.00	0.61
2:O:1142:ARG:NH1	2:O:1169:VAL:CG2	2.64	0.61
2:O:1161:LEU:CD1	2:O:1164:PHE:HB2	2.31	0.61
3:J:342:LEU:HD22	3:J:1352:ILE:CG2	2.21	0.61
1:G:232:VAL:CG2	1:H:221:ALA:CB	2.78	0.61
2:O:893:THR:HG22	2:O:895:LEU:HG	1.82	0.61
2:O:374:GLU:HG3	2:O:375:PRO:HD2	1.82	0.61
5:F:426:LYS:HG2	6:1:39:DA:H3'	1.82	0.61
3:J:53:ARG:O	3:J:58:CYS:CB	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:858:VAL:CG1	3:D:872:LEU:HD11	2.31	0.61
2:C:1061:GLN:HB2	2:C:1062:PRO:CD	2.30	0.61
3:J:431:ARG:NH2	3:J:904:ALA:HB3	2.13	0.61
3:J:517:CYS:SG	3:J:518:VAL:N	2.73	0.61
2:I:822:VAL:CG1	2:I:1060:ILE:HD13	2.30	0.61
3:D:1190:ILE:HD13	3:D:1196:LEU:HD22	1.82	0.61
4:Q:39:VAL:HG12	4:Q:40:PRO:HD2	1.83	0.61
3:J:405:GLU:O	3:J:408:VAL:HB	1.99	0.61
3:D:24:LEU:HD11	3:D:232:ASN:HB3	1.82	0.61
7:2:27:DA:H1'	7:2:28:DG:H5'	1.83	0.61
2:I:206:ALA:O	2:I:209:ILE:CG2	2.35	0.61
3:P:421:VAL:CG2	3:P:439:PRO:HG3	2.21	0.61
5:L:586:ARG:HD3	6:4:13:DC:C5	2.36	0.61
2:C:558:VAL:HG22	2:C:574:SER:O	2.00	0.61
2:O:149:LEU:HD13	2:O:453:ILE:CD1	2.31	0.61
5:L:597:LYS:O	5:L:600:HIS:CB	2.48	0.61
1:N:71:LYS:HD3	1:N:140:ILE:HD13	1.82	0.61
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.40	0.61
5:L:216:LEU:O	5:L:220:LYS:HG2	2.01	0.61
6:7:59:DG:O6	7:8:3:DG:O6	2.19	0.61
2:O:412:GLU:N	2:O:412:GLU:OE1	2.34	0.61
3:D:943:ARG:HG3	3:D:1132:LYS:HE3	1.83	0.61
3:P:1047:THR:HB	3:P:1062:LEU:HD11	1.80	0.61
5:L:533:ASP:O	5:L:536:THR:HB	2.01	0.61
3:P:337:ARG:HD2	3:P:341:ASN:HD22	1.66	0.61
5:R:590:ILE:HA	5:R:593:LYS:HE3	1.82	0.61
5:F:558:VAL:HG11	5:F:590:ILE:HG21	1.83	0.61
3:J:849:LEU:HD22	3:J:857:LEU:HA	1.79	0.61
3:D:431:ARG:HH22	3:D:904:ALA:HB3	1.65	0.61
3:D:318:GLY:HA2	3:D:324:LEU:CD2	2.27	0.61
3:J:111:THR:CG2	3:J:112:ALA:N	2.63	0.61
3:P:673:VAL:HG12	3:P:674:THR:O	2.00	0.61
2:I:839:VAL:O	2:I:886:LYS:HE2	2.01	0.61
3:P:1190:ILE:HG21	3:P:1196:LEU:HD21	1.82	0.61
2:C:953:LEU:O	2:C:957:LYS:HG3	2.01	0.61
3:J:431:ARG:HH21	3:J:904:ALA:HB1	1.65	0.61
5:R:530:LEU:HB2	5:R:533:ASP:CG	2.21	0.61
5:F:322:MET:O	5:F:323:ASN:HB2	1.99	0.61
3:J:1263:LYS:HB2	3:J:1307:LEU:HD11	1.82	0.61
1:M:53:GLY:HA2	1:M:210:THR:HG21	1.81	0.61
3:D:253:VAL:HB	3:D:254:PRO:CD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1088:ASP:OD1	2:C:1092:THR:O	2.18	0.61
1:H:223:ILE:O	1:H:227:GLN:HG2	2.00	0.61
2:C:505:PHE:O	2:C:509:SER:HB3	2.00	0.61
3:J:130:MET:HG2	3:J:131:PRO:O	2.00	0.61
3:D:423:LEU:HD23	3:D:423:LEU:N	2.12	0.61
3:J:294:ASN:ND2	5:L:101:TYR:HD1	1.99	0.61
2:I:191:LYS:CA	3:J:1069:ALA:HB3	2.31	0.61
2:C:346:TYR:CZ	2:C:436:ARG:HG3	2.36	0.61
5:L:390:ILE:HD12	5:L:435:ILE:HD12	1.81	0.61
1:M:16:ILE:HG23	1:M:26:VAL:HG22	1.80	0.61
3:D:530:PRO:HD2	3:D:531:LYS:HE2	1.83	0.61
1:N:190:ALA:HB2	1:N:199:ASP:C	2.21	0.61
2:O:1077:SER:HA	3:P:356:THR:HG23	1.82	0.61
2:C:868:SER:HB2	2:C:944:ARG:HB2	1.82	0.61
2:C:1077:SER:HA	3:D:356:THR:HG22	1.83	0.61
5:R:547:VAL:HG21	5:R:607:LEU:HD11	1.83	0.61
2:C:851:THR:CG2	2:C:852:ALA:N	2.63	0.61
1:N:193:GLU:O	1:N:194:GLN:CB	2.47	0.61
2:C:449:GLY:O	2:C:586:PHE:CE1	2.53	0.61
2:I:9:LYS:HG2	2:I:1171:ARG:HD2	1.82	0.61
3:D:1002:VAL:HB	3:D:1019:ASN:O	2.00	0.61
3:P:189:LEU:O	3:P:192:MET:HG2	2.00	0.61
3:D:379:PRO:HG2	3:D:380:PHE:H	1.65	0.61
5:L:551:LEU:HD23	5:L:597:LYS:HD2	1.83	0.61
2:I:592:ARG:HG3	2:I:592:ARG:HH11	1.66	0.61
2:I:151:ARG:HD2	2:I:445:ILE:HG23	1.83	0.61
2:I:528:ARG:NH2	2:I:575:LEU:HD23	2.15	0.61
3:D:331:ILE:HG22	3:D:338:PHE:CE2	2.35	0.61
6:1:46:DG:C5'	6:1:46:DG:H8	2.14	0.61
3:J:1052:GLU:HG2	3:J:1053:LEU:H	1.66	0.61
7:2:33:DC:H2''	7:2:34:DG:OP2	2.00	0.61
2:C:521:LEU:HD11	2:C:687:ARG:HG2	1.82	0.61
3:P:419:HIS:O	3:P:439:PRO:HD2	2.00	0.61
2:C:402:ARG:CG	2:C:416:GLY:HA3	2.13	0.61
2:O:194:LEU:HD11	2:O:432:LEU:HD21	1.83	0.61
1:A:29:GLU:CB	1:A:30:PRO:HA	2.31	0.61
2:C:944:ARG:O	2:C:947:GLU:HG2	2.00	0.61
5:L:123:ILE:HG22	5:L:127:ILE:HD11	1.82	0.61
3:D:1278:GLU:HA	3:D:1278:GLU:OE1	1.99	0.61
3:D:1040:MET:HE3	3:D:1046:ILE:HG21	1.82	0.61
3:J:532:GLU:O	3:J:536:LEU:HG	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:263:VAL:HG12	2:I:264:GLU:O	2.01	0.61
5:L:302:PHE:HA	5:L:305:LEU:HD12	1.81	0.61
5:F:452:ILE:CG2	5:F:457:ILE:HD11	2.31	0.60
5:F:583:THR:HG21	5:F:586:ARG:CG	2.31	0.60
3:D:363:LEU:HD21	3:D:618:VAL:HG13	1.78	0.60
5:L:406:GLN:OE1	5:L:406:GLN:HA	2.00	0.60
1:A:29:GLU:HB2	1:A:30:PRO:HA	1.83	0.60
5:R:83:VAL:O	5:R:87:VAL:HG23	2.00	0.60
3:J:1175:LEU:HD22	3:J:1196:LEU:CD1	2.31	0.60
2:O:788:SER:OG	2:O:796:LEU:HA	2.00	0.60
3:D:1163:VAL:HG22	3:D:1177:ILE:HG23	1.83	0.60
2:I:1161:LEU:O	2:I:1164:PHE:HD2	1.84	0.60
2:C:353:VAL:O	2:C:355:PRO:HD3	2.00	0.60
3:J:698:MET:O	3:J:702:GLN:HB2	2.00	0.60
2:C:1085:MET:CE	2:C:1085:MET:HA	2.31	0.60
3:P:139:LEU:O	3:P:141:PHE:CD2	2.53	0.60
3:J:185:ILE:C	3:J:189:LEU:HD12	2.21	0.60
5:L:410:ILE:HA	5:L:413:MET:HG2	1.83	0.60
3:J:421:VAL:HG12	3:J:469:HIS:O	2.00	0.60
5:L:548:LEU:CD2	5:L:551:LEU:CD1	2.76	0.60
1:A:155:ALA:HA	1:A:172:LEU:CD2	2.30	0.60
3:D:697:MET:HE3	3:D:738:ARG:HG2	1.82	0.60
3:D:1262:ARG:HB3	3:D:1307:LEU:HD11	1.81	0.60
2:O:14:ASP:HA	2:O:1183:ALA:HB3	1.83	0.60
2:I:988:LYS:NZ	2:I:992:LEU:CD1	2.63	0.60
1:B:193:GLU:O	1:B:194:GLN:CB	2.49	0.60
2:I:743:PRO:HG3	2:I:974:ARG:HH22	1.65	0.60
1:H:22:THR:O	1:H:207:THR:HG22	2.01	0.60
1:H:191:ARG:HG3	1:H:196:THR:HG22	1.83	0.60
2:I:1272:GLU:HG2	3:J:343:LEU:HB3	1.83	0.60
1:H:51:MET:HE3	1:H:219:ARG:HD2	1.82	0.60
2:O:505:PHE:O	2:O:509:SER:HB3	2.01	0.60
3:J:22:ILE:HD11	3:J:1319:PHE:HE1	1.66	0.60
2:C:1314:GLN:HG3	4:E:28:ARG:NH2	2.16	0.60
2:O:1223:ARG:HD3	3:P:636:GLY:O	2.00	0.60
5:L:434:TRP:CE2	6:4:36:DT:C7	2.84	0.60
1:M:16:ILE:CG1	1:M:26:VAL:HG13	2.23	0.60
2:O:559:CYS:HB3	2:O:662:SER:HB3	1.83	0.60
3:D:372:MET:O	3:D:376:LEU:HG	2.01	0.60
2:I:296:VAL:HG12	2:I:297:VAL:N	2.17	0.60
2:I:1086:PRO:CB	2:I:1212:LEU:HD22	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:782:VAL:HG21	2:I:792:GLY:HA2	1.83	0.60
3:P:749:LYS:HG2	3:P:755:ILE:CG1	2.32	0.60
2:I:1031:ALA:O	2:I:1033:ARG:N	2.34	0.60
2:O:411:ARG:NH2	2:O:427:ASP:OD2	2.34	0.60
2:O:551:HIS:H	2:O:554:HIS:CE1	2.19	0.60
4:E:41:GLU:HG2	4:E:43:ASN:H	1.67	0.60
3:P:739:GLN:NE2	3:P:744:ARG:HG3	2.17	0.60
5:F:597:LYS:O	5:F:600:HIS:HB2	2.01	0.60
5:R:91:ILE:O	5:R:91:ILE:HG22	2.02	0.60
6:1:50:DT:C6	6:1:50:DT:C3'	2.84	0.60
3:D:53:ARG:O	3:D:58:CYS:CB	2.49	0.60
6:4:23:DA:N6	7:5:39:DG:O6	2.35	0.60
2:C:528:ARG:HD2	2:C:663:VAL:HG21	1.83	0.60
2:C:1255:THR:O	2:C:1256:GLN:HB2	2.00	0.60
2:C:920:VAL:HG13	2:C:921:PRO:HD2	1.84	0.60
3:J:1302:TYR:CD2	3:J:1302:TYR:O	2.54	0.60
3:P:201:LEU:HD22	3:P:217:LEU:HD22	1.81	0.60
3:D:480:ALA:HA	3:D:484:MET:HB2	1.83	0.60
1:M:48:LEU:HD23	1:M:180:VAL:CB	2.30	0.60
2:I:1275:VAL:CB	2:I:1279:GLU:OE2	2.49	0.60
2:C:1073:LYS:HZ2	8:3:15:G:P	2.23	0.60
2:I:425:ILE:O	2:I:429:MET:HG3	2.02	0.60
2:O:1142:ARG:HH22	2:O:1169:VAL:CG2	2.05	0.60
3:P:473:THR:CB	3:P:475:GLU:OE1	2.41	0.60
3:P:512:TYR:CD1	3:P:545:HIS:HE1	2.20	0.60
2:I:668:ILE:HG21	2:I:671:LEU:HD13	1.83	0.60
1:M:69:SER:O	1:M:78:ILE:CG1	2.45	0.60
3:D:589:TYR:O	3:D:591:ILE:N	2.34	0.60
7:8:22:DA:C1'	7:8:23:DT:P	2.87	0.60
3:J:68:TYR:OH	3:J:94:GLN:CG	2.50	0.60
2:O:1333:LEU:HD23	3:P:327:LEU:HD13	1.82	0.60
2:I:150:HIS:HE1	2:I:454:ARG:HG3	1.66	0.60
3:P:1046:ILE:HD12	3:P:1059:LEU:HD22	1.83	0.60
3:J:252:LEU:O	3:J:252:LEU:HG	2.00	0.60
1:G:233:ASP:O	1:G:235:ARG:N	2.34	0.60
1:A:42:ALA:CB	1:B:38:THR:CG2	2.80	0.60
3:D:182:ALA:CA	3:D:185:ILE:CD1	2.76	0.60
3:J:886:VAL:CG1	3:J:1261:LEU:HD12	2.31	0.60
3:P:421:VAL:CG2	3:P:439:PRO:HG2	2.31	0.60
2:C:402:ARG:NH2	2:C:417:SER:O	2.28	0.60
1:M:102:LEU:HD22	1:M:130:ILE:HD13	1.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:488:MET:HB3	2:I:489:PRO:CD	2.28	0.60
7:8:15:DT:H2'	7:8:16:DC:C6	2.37	0.60
2:O:52:ALA:CB	2:O:464:PHE:CE2	2.84	0.60
2:C:1098:LEU:HD22	2:C:1099:ASN:N	2.16	0.60
3:J:492:SER:O	3:J:495:ASN:O	2.20	0.60
2:O:13:LYS:HB2	2:O:1149:TYR:CD1	2.36	0.60
5:R:449:THR:OG1	5:R:504:PRO:HG3	2.01	0.60
3:J:891:ASP:OD1	3:J:891:ASP:N	2.32	0.60
3:P:1258:ARG:HH11	3:P:1258:ARG:HG2	1.67	0.60
3:J:27:PRO:HB3	3:J:241:VAL:HG23	1.83	0.60
3:J:1100:PHE:HB2	3:J:1193:TRP:HB2	1.82	0.60
3:P:679:TYR:CE2	3:P:683:ILE:HD12	2.36	0.60
3:J:587:LEU:HD21	3:J:612:LEU:HG	1.83	0.60
3:J:902:ASP:HB2	3:J:909:ILE:HB	1.83	0.60
3:J:930:LEU:HD11	3:J:1246:VAL:HG21	1.84	0.60
2:O:888:THR:CG2	2:O:889:PRO:HD2	2.32	0.60
1:M:61:ILE:CG1	1:M:142:MET:HB2	2.31	0.60
3:D:79:LYS:HZ1	5:F:569:THR:HG22	1.66	0.60
2:C:92:TYR:HB3	2:C:137:VAL:HB	1.84	0.60
3:P:785:ASP:HB3	3:P:935:PHE:CE2	2.37	0.60
3:J:584:PRO:CD	3:J:620:PHE:CE1	2.84	0.60
2:O:1061:GLN:CB	2:O:1062:PRO:HD2	2.32	0.60
6:7:34:DG:N2	7:8:30:DA:C2	2.69	0.60
2:O:90:VAL:CG1	2:O:91:THR:N	2.65	0.60
3:J:967:VAL:HG22	3:J:973:LEU:HD12	1.82	0.60
2:O:748:ILE:HG13	2:O:970:GLY:HA3	1.83	0.60
3:P:952:VAL:HG11	3:P:984:LEU:HD13	1.82	0.60
2:O:33:ASP:O	2:O:37:LYS:HG3	2.02	0.60
3:D:1293:GLU:OE2	3:D:1299:GLY:HA3	2.01	0.60
2:O:194:LEU:HD11	2:O:432:LEU:CD2	2.32	0.60
2:C:1257:GLN:NE2	3:D:345:LYS:CB	2.64	0.60
2:C:839:VAL:O	2:C:886:LYS:HE2	2.01	0.60
2:O:1230:MET:SD	2:O:1232:MET:CE	2.90	0.60
1:A:155:ALA:N	1:A:174:ASP:OD1	2.28	0.60
2:O:685:MET:CE	2:O:1073:LYS:HB3	2.31	0.60
3:D:1306:LEU:HD12	3:D:1307:LEU:H	1.66	0.60
2:O:1107:MET:HG2	3:P:740:LEU:HD21	1.82	0.60
1:G:112:ALA:O	1:G:115:ILE:HD12	2.01	0.60
3:D:1120:THR:OG1	3:D:1123:ARG:NH2	2.34	0.60
1:B:175:ALA:CB	1:B:177:TYR:CE2	2.84	0.60
2:C:34:SER:O	2:C:37:LYS:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1184:THR:O	2:C:1184:THR:CG2	2.50	0.60
5:F:98:VAL:HG21	6:1:44:DG:N2	2.16	0.60
1:G:49:SER:HB2	1:H:33:ARG:HH22	1.67	0.60
3:D:502:PRO:CG	3:D:601:ILE:HD13	2.32	0.60
1:M:58:GLU:HG2	1:M:172:LEU:CD1	2.32	0.60
2:O:559:CYS:HB2	2:O:662:SER:HB3	1.84	0.60
3:J:1165:PHE:CD2	3:J:1175:LEU:HD13	2.37	0.60
2:I:1212:LEU:HB3	2:I:1221:PHE:CD2	2.36	0.60
2:O:1056:VAL:HG11	2:O:1058:ARG:HG3	1.84	0.60
3:J:53:ARG:O	3:J:58:CYS:SG	2.60	0.60
3:D:1175:LEU:O	3:D:1188:GLU:N	2.30	0.60
2:O:73:TYR:HB3	2:O:98:VAL:HG22	1.83	0.60
2:O:144:VAL:CG2	2:O:515:MET:SD	2.90	0.60
2:C:1085:MET:HE2	2:C:1085:MET:HA	1.83	0.60
3:D:871:LEU:O	3:D:874:GLU:HB2	2.01	0.60
3:D:137:ARG:NH1	3:D:142:GLU:OE2	2.34	0.60
1:A:35:PHE:HE2	1:B:50:SER:OG	1.84	0.60
3:J:42:GLU:CD	5:L:451:ARG:HG2	2.21	0.60
1:M:38:THR:HG21	1:N:46:ILE:HD11	1.83	0.60
5:L:452:ILE:CG2	5:L:456:MET:CB	2.80	0.60
3:D:836:ARG:HD3	3:D:873:GLU:OE2	2.02	0.60
3:D:130:MET:HG2	3:D:135:ILE:CD1	2.31	0.60
2:I:1269:ARG:CG	3:J:345:LYS:O	2.50	0.60
3:P:925:GLU:N	3:P:926:PRO:HD3	2.17	0.60
2:O:340:ASP:OD2	3:P:1044:GLN:NE2	2.22	0.60
3:P:1173:ARG:HB2	3:P:1190:ILE:HB	1.84	0.60
2:I:9:LYS:HG2	2:I:1171:ARG:CD	2.32	0.60
3:D:999:TYR:HB3	3:D:1025:MET:HE2	1.84	0.60
2:C:46:GLN:O	2:C:46:GLN:HG3	2.02	0.60
1:G:97:GLU:HG3	1:G:147:GLN:HG2	1.84	0.60
3:D:210:SER:HB3	3:D:213:LYS:HD2	1.84	0.60
1:M:39:LEU:N	1:M:39:LEU:CD2	2.59	0.59
3:J:608:CYS:SG	3:J:617:THR:CG2	2.77	0.59
3:D:343:LEU:CD2	3:D:1351:VAL:HG11	2.32	0.59
3:D:886:VAL:HA	3:D:1258:ARG:HD2	1.82	0.59
5:R:453:PRO:O	5:R:456:MET:HB3	2.02	0.59
3:D:1155:ILE:N	3:D:1211:SER:OG	2.28	0.59
2:O:823:VAL:CG1	2:O:1059:ARG:CZ	2.73	0.59
5:R:135:ALA:CB	5:R:256:PHE:HB3	2.23	0.59
1:M:58:GLU:HB2	1:M:145:LYS:HB3	1.82	0.59
3:J:421:VAL:CG1	3:J:422:LEU:H	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1068:GLY:CA	2:O:1232:MET:CE	2.80	0.59
3:J:1251:LYS:O	3:J:1255:VAL:HG23	2.02	0.59
3:J:1280:VAL:CG1	3:J:1281:GLU:H	2.14	0.59
3:D:53:ARG:O	3:D:58:CYS:SG	2.60	0.59
2:C:523:GLU:O	2:C:527:LYS:HG3	2.01	0.59
1:G:24:ALA:HB3	1:G:213:PRO:CB	2.31	0.59
1:A:61:ILE:HB	1:A:64:VAL:HB	1.83	0.59
2:I:82:VAL:CG2	2:I:83:GLN:N	2.65	0.59
5:F:126:GLY:O	5:F:130:VAL:HG23	2.02	0.59
3:P:220:ARG:HA	3:P:223:LEU:HD12	1.83	0.59
2:C:525:THR:CG2	2:C:526:HIS:N	2.65	0.59
2:C:521:LEU:HD21	2:C:686:GLN:CB	2.31	0.59
1:B:79:LEU:O	1:B:83:LEU:HD23	2.02	0.59
5:R:583:THR:HG22	5:R:586:ARG:HB3	1.80	0.59
2:C:1287:LEU:CG	2:C:1288:GLN:N	2.61	0.59
2:O:726:TYR:H	2:O:733:VAL:HG22	1.67	0.59
3:P:643:ASP:O	3:P:720:ASN:ND2	2.35	0.59
3:J:209:ASN:ND2	3:J:214:ARG:HD3	2.08	0.59
2:O:810:TYR:HB3	2:O:817:LEU:HG	1.83	0.59
2:O:698:PRO:CA	2:O:1231:TYR:CE1	2.83	0.59
1:B:88:LEU:HD21	1:B:128:HIS:CD2	2.37	0.59
1:B:88:LEU:HD13	1:B:128:HIS:CG	2.36	0.59
2:C:1161:LEU:HD11	2:C:1164:PHE:HB2	1.83	0.59
3:P:30:ILE:HA	3:P:33:TRP:HE3	1.65	0.59
2:O:1333:LEU:HD21	3:P:327:LEU:HB3	1.83	0.59
2:O:748:ILE:HD12	2:O:966:ILE:O	2.01	0.59
2:O:251:ALA:O	2:O:266:GLY:HA2	2.02	0.59
5:L:153:ALA:O	5:L:155:GLU:N	2.35	0.59
1:H:112:ALA:HB3	1:H:126:PRO:HA	1.83	0.59
2:C:787:PRO:HG2	2:C:788:SER:H	1.67	0.59
1:A:44:ARG:HA	1:A:47:LEU:HD12	1.83	0.59
2:O:1243:MET:HG3	3:P:372:MET:HE2	1.84	0.59
5:L:454:VAL:N	5:L:455:HIS:HD2	2.00	0.59
1:G:82:LEU:HA	1:G:85:LEU:HD12	1.85	0.59
3:J:320:ASN:CG	3:J:321:LYS:H	2.05	0.59
2:O:811:ASN:HB2	2:O:1099:ASN:HB2	1.83	0.59
2:C:277:LEU:HD12	2:C:282:VAL:HG21	1.83	0.59
3:D:510:LEU:CD2	3:D:579:LEU:HD13	2.32	0.59
2:O:888:THR:HB	2:O:914:LYS:HD2	1.83	0.59
3:P:251:PRO:HD2	5:R:507:MET:SD	2.43	0.59
5:F:386:LEU:HB2	6:1:41:DT:C2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1237:HIS:ND1	2:O:1242:LYS:CE	2.64	0.59
3:D:673:VAL:HG13	3:D:678:ARG:HB2	1.83	0.59
2:I:1119:MET:HE1	2:I:1208:GLY:HA2	1.83	0.59
3:P:591:ILE:HD13	3:P:604:MET:HG2	1.84	0.59
3:D:37:GLU:C	3:D:37:GLU:OE1	2.40	0.59
2:C:1309:VAL:HG13	3:D:383:GLY:HA2	1.84	0.59
3:J:1237:VAL:HG12	3:J:1241:TYR:HE2	1.68	0.59
3:P:614:LEU:O	3:P:618:VAL:HG23	2.03	0.59
3:J:843:VAL:HG12	3:J:883:ARG:CB	2.17	0.59
5:L:102:MET:CE	5:L:105:MET:CE	2.81	0.59
2:C:1109:ILE:CG1	3:D:740:LEU:HD22	2.31	0.59
2:I:495:ALA:O	2:I:498:ILE:HB	2.03	0.59
6:1:50:DT:H5'	6:1:51:DC:C6	2.36	0.59
3:D:79:LYS:HE2	5:F:569:THR:HB	1.83	0.59
3:D:1270:GLY:HA2	3:D:1298:VAL:O	2.02	0.59
7:5:45:DG:H2''	7:5:46:DT:H5'	1.84	0.59
3:J:518:VAL:O	3:J:520:ALA:N	2.36	0.59
2:I:838:CYS:O	2:I:1049:ILE:CG2	2.50	0.59
2:I:888:THR:O	2:I:913:VAL:HG13	2.02	0.59
3:J:514:THR:HB	3:J:595:ALA:HA	1.84	0.59
3:J:289:ASP:HA	3:J:292:VAL:CG2	2.33	0.59
5:L:353:LEU:HB3	5:L:358:VAL:CG2	2.32	0.59
7:5:42:DG:H2''	7:5:43:DA:OP2	2.01	0.59
2:O:911:SER:O	2:O:913:VAL:N	2.35	0.59
5:L:514:ASP:O	5:L:516:ASP:N	2.35	0.59
3:J:113:HIS:CD2	3:J:115:TRP:HB2	2.38	0.59
3:D:894:VAL:HG23	3:D:895:CYS:O	2.02	0.59
1:G:140:ILE:HD11	1:G:142:MET:HE3	1.84	0.59
2:O:1104:PRO:HG3	3:P:725:MET:HE1	1.83	0.59
3:D:318:GLY:CA	3:D:324:LEU:HD21	2.29	0.59
1:M:57:THR:O	1:M:172:LEU:HD12	2.02	0.59
2:I:797:GLY:HA3	2:I:1233:LEU:CD2	2.31	0.59
1:N:79:LEU:HA	1:N:82:LEU:HD12	1.83	0.59
5:F:387:VAL:HG12	5:F:388:ILE:N	2.15	0.59
2:O:909:LYS:HE2	2:O:911:SER:HB3	1.84	0.59
4:E:76:GLU:O	4:E:80:LEU:HG	2.02	0.59
3:J:425:ARG:HD2	3:J:457:TYR:HB3	1.84	0.59
3:D:701:LEU:HD21	3:D:720:ASN:HD22	1.65	0.59
3:J:553:THR:CG2	3:J:565:ALA:HB1	2.33	0.59
3:J:1179:PRO:HB2	3:J:1182:GLY:O	2.02	0.59
2:C:498:ILE:O	2:C:502:VAL:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1339:LEU:HD13	3:P:17:PHE:CE1	2.36	0.59
3:J:24:LEU:HD13	3:J:237:MET:HE3	1.84	0.59
3:D:112:ALA:CA	3:D:238:ILE:CD1	2.48	0.59
5:F:461:ASN:HA	7:2:26:DT:C7	2.32	0.59
3:J:749:LYS:HD2	3:J:753:SER:OG	2.03	0.59
3:D:366:CYS:SG	3:D:439:PRO:HA	2.43	0.59
3:D:431:ARG:HH21	3:D:904:ALA:HB1	1.66	0.59
1:M:100:LEU:HD13	1:M:115:ILE:HG21	1.83	0.59
2:O:802:VAL:CG1	2:O:803:ALA:N	2.65	0.59
3:P:452:LEU:N	3:P:452:LEU:HD23	2.16	0.59
3:P:272:VAL:HG21	3:P:306:LEU:HD23	1.83	0.59
3:D:697:MET:CE	3:D:738:ARG:HA	2.33	0.59
5:L:84:LEU:CG	5:L:107:THR:CG2	2.80	0.59
3:D:1274:PHE:O	3:D:1275:LEU:HB2	2.02	0.59
4:Q:39:VAL:CG1	4:Q:40:PRO:HD2	2.32	0.59
3:P:339:ARG:NH1	3:P:798:ARG:NH2	2.50	0.59
3:P:474:LEU:HD13	4:Q:28:ARG:HG2	1.84	0.59
1:A:224:LEU:HG	1:A:225:ALA:N	2.05	0.59
3:J:601:ILE:HG23	3:J:605:LEU:HD21	1.85	0.59
2:I:92:TYR:HB2	2:I:137:VAL:HB	1.84	0.59
3:P:423:LEU:HD12	3:P:437:PHE:CD1	2.37	0.59
3:P:424:ASN:C	3:P:466:MET:HE2	2.23	0.59
6:7:49:DG:H2'	6:7:50:DT:H1'	1.85	0.59
2:I:672:GLU:HG3	2:I:1187:PHE:HA	1.85	0.59
3:J:110:PRO:HB2	3:J:238:ILE:HG21	1.84	0.59
2:O:559:CYS:HB2	2:O:662:SER:N	2.17	0.59
1:B:190:ALA:HB2	1:B:200:LYS:CG	2.29	0.59
3:D:1218:HIS:O	3:D:1221:LEU:HB3	2.02	0.59
2:O:526:HIS:HA	2:O:529:ARG:HD3	1.84	0.59
3:D:1167:LYS:O	3:D:1174:ARG:CD	2.49	0.59
3:J:296:LYS:O	3:J:299:LEU:HB3	2.03	0.59
3:J:366:CYS:SG	3:J:439:PRO:HA	2.43	0.59
3:D:599:LYS:HG3	3:D:600:ALA:H	1.67	0.59
3:D:234:PRO:O	3:D:237:MET:CG	2.50	0.59
2:O:1212:LEU:HB3	2:O:1221:PHE:CD2	2.38	0.59
7:2:4:DC:C4	7:2:5:DC:N4	2.70	0.59
2:O:232:ILE:HG12	2:O:237:LEU:HD22	1.84	0.59
2:I:15:PHE:CD2	2:I:1182:ILE:HG23	2.36	0.59
2:I:255:ILE:O	2:I:255:ILE:HG22	2.02	0.59
3:J:835:LEU:HD12	3:J:839:VAL:CG2	2.33	0.59
3:P:117:LEU:HD21	3:P:118:LYS:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:403:ARG:O	3:P:404:GLU:HB2	2.01	0.59
1:M:51:MET:CE	1:M:211:ILE:HG13	2.32	0.59
1:A:41:ASN:ND2	2:C:1217:THR:C	2.56	0.59
3:J:483:LEU:HD23	4:K:16:ARG:HE	1.68	0.59
3:P:1226:VAL:O	3:P:1229:VAL:CG1	2.51	0.59
5:L:412:LEU:HD11	5:L:431:ALA:HB1	1.84	0.59
1:A:192:VAL:HG21	1:A:198:LEU:HB2	1.84	0.59
4:K:60:ASN:HB3	4:K:63:ILE:CD1	2.27	0.59
1:M:158:ARG:HB3	1:M:172:LEU:HD21	1.85	0.59
6:4:50:DT:C3'	6:4:50:DT:C6	2.85	0.59
5:R:370:ALA:HB1	5:R:373:ARG:NH2	2.18	0.59
2:I:1048:LYS:C	2:I:1049:ILE:HG13	2.22	0.59
5:R:137:TYR:HE1	5:R:353:LEU:CD1	2.14	0.59
5:R:394:TYR:C	5:R:396:ASN:H	2.06	0.59
2:I:936:ARG:HG2	2:I:937:ASP:H	1.67	0.59
5:F:345:GLN:O	5:F:348:GLU:HB2	2.03	0.59
3:D:826:ILE:HG22	3:D:826:ILE:O	2.02	0.59
3:J:1271:SER:OG	3:J:1297:LYS:HD2	2.02	0.59
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.37	0.59
3:P:242:LEU:HD12	3:P:243:PRO:CD	2.15	0.59
2:C:1284:ALA:HB2	3:D:1361:THR:HB	1.84	0.59
2:I:163:LYS:CG	2:I:164:THR:H	2.14	0.59
1:N:44:ARG:O	1:N:47:LEU:HB2	2.03	0.59
2:O:1278:LEU:HD22	2:O:1286:THR:OG1	2.01	0.59
3:J:342:LEU:CD2	3:J:1352:ILE:HG23	2.22	0.59
1:M:56:VAL:HA	1:M:146:VAL:HG22	1.84	0.59
2:O:564:PRO:CG	8:9:13:GTP:O2A	2.51	0.59
3:P:1348:LYS:HA	3:P:1351:VAL:HG23	1.85	0.59
7:5:4:DC:N3	7:5:5:DC:N4	2.51	0.59
6:4:54:DA:H2''	6:4:55:DC:C6	2.37	0.59
2:I:170:VAL:HG23	3:J:1066:GLU:HA	1.85	0.59
5:F:595:LEU:O	5:F:599:ARG:HG3	2.03	0.58
3:J:899:TYR:CD1	3:J:915:ILE:HG21	2.38	0.58
7:8:24:DT:H2''	7:8:25:DA:OP1	2.02	0.58
5:L:477:GLU:OE2	5:L:478:PRO:HD2	2.03	0.58
3:P:536:LEU:HB3	3:P:542:ALA:HB3	1.85	0.58
1:G:215:GLU:HG2	1:G:219:ARG:NH2	2.18	0.58
1:G:102:LEU:HD12	1:G:114:ASP:O	2.03	0.58
2:C:622:ASN:HB3	2:C:630:VAL:HB	1.84	0.58
2:C:925:SER:OG	2:C:926:GLY:N	2.34	0.58
2:C:227:LYS:O	2:C:245:ARG:NH2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:514:PHE:CE2	7:5:19:DA:O4'	2.56	0.58
5:F:452:ILE:CG2	5:F:456:MET:HB3	2.32	0.58
5:F:457:ILE:CA	5:F:460:ILE:HD12	2.20	0.58
1:B:61:ILE:HD12	1:B:64:VAL:CG1	2.33	0.58
1:B:67:GLU:HG3	1:B:68:TYR:CE2	2.37	0.58
2:I:92:TYR:CB	2:I:137:VAL:HB	2.33	0.58
3:D:923:ILE:HD11	3:D:1252:HIS:HB3	1.85	0.58
6:7:53:DG:H2''	6:7:54:DA:H5'	1.83	0.58
3:D:795:TYR:CZ	7:2:11:DA:H2''	2.37	0.58
2:I:870:ILE:HG21	2:I:944:ARG:NE	2.18	0.58
2:I:672:GLU:CG	2:I:1187:PHE:HA	2.33	0.58
3:D:1318:SER:OG	3:D:1321:SER:CB	2.51	0.58
6:4:47:DC:C4	6:4:48:DA:N6	2.71	0.58
2:O:859:GLU:HA	2:O:862:LEU:HD12	1.85	0.58
3:P:147:ILE:HG13	3:P:178:ALA:HA	1.85	0.58
3:J:553:THR:HG21	3:J:565:ALA:HB1	1.84	0.58
2:I:1088:ASP:N	2:I:1088:ASP:OD1	2.36	0.58
2:C:835:GLU:O	2:C:836:LEU:HD23	2.01	0.58
2:C:794:LEU:HG	2:C:796:LEU:HG	1.85	0.58
2:C:448:LEU:CD1	2:C:553:THR:HB	2.33	0.58
2:C:429:MET:O	2:C:432:LEU:HB3	2.03	0.58
3:J:931:THR:HG23	3:J:1134:ILE:CB	2.34	0.58
2:O:374:GLU:N	5:R:99:ARG:NH1	2.52	0.58
3:P:997:VAL:CG1	3:P:1001:ALA:HB3	2.33	0.58
3:P:1031:VAL:CG1	3:P:1091:PRO:HD3	2.32	0.58
1:N:156:SER:C	1:N:159:ILE:HG22	2.24	0.58
2:I:452:ARG:NH2	2:I:458:GLU:OE2	2.37	0.58
6:1:26:DT:H2''	6:1:27:DC:OP2	2.04	0.58
1:B:76:GLU:HG3	1:B:80:GLU:CD	2.22	0.58
5:F:464:ASN:HB2	7:2:26:DT:C7	2.33	0.58
2:C:1066:MET:CE	2:C:1234:LYS:HA	2.33	0.58
1:G:69:SER:O	1:G:78:ILE:CD1	2.51	0.58
2:O:1161:LEU:O	2:O:1161:LEU:HD12	2.03	0.58
2:O:178:PRO:HD3	2:O:395:TYR:OH	2.03	0.58
5:L:167:ASP:N	5:L:168:PRO:HD3	2.18	0.58
3:D:797:THR:HG23	3:D:924:GLY:CA	2.33	0.58
3:J:423:LEU:CA	3:J:466:MET:HE1	2.33	0.58
1:N:169:GLY:O	1:N:171:LEU:HG	2.02	0.58
2:I:183:TRP:CZ3	6:4:47:DC:N4	2.71	0.58
1:N:208:ASN:O	1:N:210:THR:N	2.33	0.58
3:P:1190:ILE:HD13	3:P:1196:LEU:CD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:575:LEU:HG	2:O:576:SER:O	2.02	0.58
2:O:406:ASN:HB3	2:O:411:ARG:HB2	1.85	0.58
5:L:96:ASP:HB3	5:L:99:ARG:HG3	1.83	0.58
2:I:832:HIS:CD2	2:I:1058:ARG:HD2	2.39	0.58
2:O:161:LYS:HA	2:O:161:LYS:HE3	1.83	0.58
5:L:386:LEU:HD13	6:4:41:DT:C1'	2.33	0.58
3:D:615:LYS:N	3:D:616:PRO:CD	2.65	0.58
3:D:573:THR:HG23	3:D:576:ARG:HD2	1.85	0.58
4:Q:45:LYS:O	4:Q:49:ILE:HG13	2.03	0.58
2:O:1113:LEU:HD21	3:P:641:ILE:HD11	1.84	0.58
3:P:807:LEU:HD23	3:P:1255:VAL:CG1	2.34	0.58
2:C:934:PHE:O	2:C:1048:LYS:HG3	2.03	0.58
3:D:109:SER:HB2	3:D:296:LYS:CE	2.33	0.58
1:H:75:GLN:CD	1:H:132:HIS:HB3	2.23	0.58
5:F:341:LEU:O	5:F:341:LEU:HD23	2.03	0.58
2:C:434:ASP:O	2:C:439:LYS:HB2	2.03	0.58
5:L:276:MET:SD	5:L:279:ARG:HD3	2.43	0.58
3:D:139:LEU:HA	3:D:181:GLY:HA2	1.85	0.58
2:C:1289:GLU:OE2	3:D:473:THR:N	2.37	0.58
2:C:1314:GLN:HG2	2:C:1315:MET:N	2.18	0.58
2:C:1323:PHE:HE1	2:C:1327:LEU:CD2	2.08	0.58
2:I:201:ARG:HB2	2:I:369:MET:CE	2.21	0.58
2:O:185:ASP:C	2:O:186:PHE:CD2	2.76	0.58
2:I:1269:ARG:HA	3:J:346:ARG:HA	1.85	0.58
3:P:1318:SER:OG	3:P:1321:SER:HB3	2.03	0.58
2:C:494:ASN:HD21	2:C:496:LYS:HB2	1.68	0.58
2:C:165:HIS:CE1	2:C:190:PRO:HB3	2.39	0.58
2:C:367:TYR:CZ	2:C:380:ALA:HB1	2.38	0.58
2:O:167:SER:CB	3:P:1064:SER:HB2	2.34	0.58
3:J:458:ASN:ND2	8:6:16:U:O3'	2.36	0.58
2:I:60:GLN:HG2	2:I:67:GLU:OE1	2.03	0.58
1:A:35:PHE:HB3	1:A:39:LEU:HD11	1.85	0.58
3:J:483:LEU:HD11	4:K:17:PHE:CD1	2.37	0.58
2:C:1292:THR:CG2	2:C:1293:VAL:N	2.64	0.58
2:C:1281:TYR:CE1	3:D:431:ARG:HG3	2.39	0.58
2:O:228:VAL:HG23	2:O:335:THR:O	2.03	0.58
2:O:188:PHE:CE2	2:O:432:LEU:CD1	2.86	0.58
2:O:347:ILE:CD1	2:O:433:ILE:HD11	2.33	0.58
3:P:1229:VAL:HG13	3:P:1230:THR:N	2.17	0.58
2:C:346:TYR:OH	2:C:436:ARG:HG3	2.04	0.58
2:I:1268:GLN:HA	7:5:16:DC:OP1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1270:PHE:HB2	3:J:347:VAL:CG2	2.33	0.58
2:I:296:VAL:HG13	2:I:315:MET:O	2.04	0.58
6:4:51:DC:H3'	6:4:52:DT:P	2.43	0.58
2:C:87:ILE:HG22	2:C:934:PHE:CZ	2.37	0.58
5:F:395:THR:HG22	5:F:404:LEU:CD1	2.34	0.58
7:5:45:DG:C2	7:5:46:DT:N3	2.72	0.58
5:L:288:MET:SD	5:L:299:LYS:NZ	2.68	0.58
3:D:1286:LYS:O	3:D:1290:ARG:HG2	2.03	0.58
3:P:341:ASN:OD1	3:P:341:ASN:N	2.36	0.58
2:O:1332:SER:O	3:P:243:PRO:HG2	2.04	0.58
3:J:843:VAL:HG21	3:J:897:HIS:CB	2.34	0.58
2:I:160:ASP:OD2	2:I:163:LYS:HD2	2.03	0.58
2:I:168:GLY:C	3:J:1065:ALA:HA	2.23	0.58
2:O:331:LYS:O	2:O:332:ARG:CG	2.44	0.58
2:O:1104:PRO:HG3	3:P:725:MET:HE3	1.83	0.58
1:H:60:GLU:HB2	1:H:170:ARG:HD2	1.85	0.58
3:J:104:HIS:C	3:J:105:ILE:HG13	2.24	0.58
2:C:870:ILE:HG13	2:C:944:ARG:CG	2.29	0.58
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.30	0.58
3:P:1318:SER:OG	3:P:1321:SER:CB	2.51	0.58
3:P:272:VAL:HG21	3:P:306:LEU:CD2	2.34	0.58
3:D:1318:SER:OG	3:D:1321:SER:HB3	2.04	0.58
6:1:56:DG:C2	7:2:8:DG:C2	2.92	0.58
3:P:1274:PHE:O	3:P:1275:LEU:CB	2.52	0.58
5:R:166:VAL:HG11	5:R:212:ILE:HG13	1.86	0.58
2:I:1088:ASP:OD1	2:I:1092:THR:O	2.21	0.58
3:P:1051:ASP:HB2	3:P:1056:LEU:O	2.04	0.58
2:C:369:MET:HG3	2:C:370:MET:N	2.18	0.58
3:P:839:VAL:O	3:P:839:VAL:HG12	2.03	0.58
3:P:1005:LYS:HE3	3:P:1015:GLU:OE1	2.04	0.58
2:O:771:VAL:CG2	2:O:783:LEU:HD22	2.33	0.58
2:O:690:VAL:HG12	2:O:691:PRO:HD2	1.85	0.58
3:J:672:LEU:O	3:J:673:VAL:HG22	2.04	0.58
3:J:369:PRO:HB3	3:J:445:LYS:HA	1.86	0.58
3:D:378:LYS:HA	3:D:381:ILE:CD1	2.25	0.58
2:O:725:GLN:HB2	2:O:735:LYS:HG3	1.86	0.58
3:P:555:TYR:CB	3:P:563:LEU:HD22	2.22	0.58
1:H:83:LEU:HD13	1:H:86:LYS:HD2	1.84	0.58
1:H:83:LEU:HD11	3:J:526:VAL:HB	1.85	0.58
2:C:237:LEU:CD1	2:C:292:ILE:HD12	2.34	0.58
2:C:255:ILE:HG12	2:C:285:ILE:CG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:231:PHE:CE1	1:N:28:LEU:HG	2.39	0.58
2:O:1231:TYR:O	2:O:1232:MET:CE	2.51	0.58
2:C:807:TRP:CD1	2:C:817:LEU:CD1	2.86	0.58
5:L:491:GLU:OE2	5:L:495:ARG:NH2	2.36	0.58
1:B:47:LEU:HD13	1:B:183:ILE:HD12	1.84	0.58
6:7:58:DG:C2	7:8:6:DG:N2	2.72	0.58
3:J:591:ILE:CG2	3:J:604:MET:HG2	2.34	0.58
2:O:130:MET:SD	2:O:134:GLY:HA2	2.44	0.58
2:I:565:GLU:HG3	2:I:566:GLY:N	2.18	0.58
2:C:389:PHE:HB2	2:C:390:PHE:CE2	2.38	0.58
2:O:887:VAL:HB	2:O:913:VAL:HG13	1.86	0.58
5:F:297:MET:SD	5:F:298:PRO:HD2	2.44	0.58
2:C:452:ARG:O	2:C:453:ILE:HD13	2.04	0.58
4:Q:13:ILE:HG13	4:Q:54:ILE:HG21	1.86	0.58
2:I:1275:VAL:C	2:I:1279:GLU:OE2	2.42	0.58
2:O:227:LYS:NZ	2:O:334:GLU:OE1	2.37	0.58
2:I:1186:VAL:O	2:I:1187:PHE:HB2	2.03	0.58
2:O:371:ARG:CA	5:R:99:ARG:HH21	2.15	0.58
3:D:146:VAL:CG1	3:D:155:GLU:O	2.52	0.58
5:R:407:GLU:OE2	5:R:442:SER:CB	2.52	0.58
3:P:1319:PHE:CD2	3:P:1340:LYS:HD2	2.39	0.58
2:I:145:ILE:HD11	2:I:506:PHE:CD1	2.38	0.58
3:J:289:ASP:HA	3:J:292:VAL:HG23	1.85	0.58
3:D:1082:ASP:N	3:D:1086:ASN:O	2.37	0.58
1:G:102:LEU:CD1	1:G:114:ASP:O	2.52	0.58
2:I:514:PHE:CZ	7:5:19:DA:O4'	2.57	0.58
3:D:703:THR:O	3:D:718:SER:HB3	2.04	0.58
3:P:471:PRO:CB	3:P:476:ALA:HB1	2.33	0.58
4:K:13:ILE:CD1	4:K:19:LEU:HA	2.34	0.57
3:P:1145:PHE:O	3:P:1309:ILE:CG1	2.52	0.57
3:D:839:VAL:O	3:D:864:LEU:HD12	2.04	0.57
1:G:59:VAL:CG2	1:G:144:ILE:HG23	2.20	0.57
2:O:804:PHE:CE1	2:O:1103:VAL:HG21	2.39	0.57
3:D:502:PRO:CB	3:D:601:ILE:HD13	2.34	0.57
1:N:30:PRO:O	1:N:31:LEU:HG	2.03	0.57
3:J:423:LEU:CB	3:J:466:MET:CE	2.78	0.57
3:P:116:PHE:HB2	3:P:124:ILE:HD11	1.85	0.57
2:C:56:VAL:HG12	2:C:59:ILE:CD1	2.33	0.57
2:C:1335:ILE:CD1	2:C:1335:ILE:N	2.65	0.57
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.85	0.57
5:R:407:GLU:HG2	5:R:442:SER:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:407:GLU:HG2	5:R:442:SER:OG	2.04	0.57
2:I:539:THR:HG22	2:I:540:ARG:N	2.19	0.57
2:O:167:SER:CA	3:P:1064:SER:HB2	2.33	0.57
2:I:933:VAL:HG13	2:I:1050:VAL:HG22	1.85	0.57
3:P:1369:ARG:HG2	3:P:1372:ARG:HH11	1.68	0.57
2:C:758:ARG:HB2	2:C:833:ILE:HB	1.86	0.57
3:D:203:GLU:O	3:D:206:ASN:HB3	2.03	0.57
2:C:525:THR:HG23	2:C:526:HIS:N	2.19	0.57
2:C:688:GLN:HE22	8:3:14:A:P	2.27	0.57
3:D:918:ILE:O	3:D:922:SER:OG	2.22	0.57
2:O:186:PHE:N	2:O:186:PHE:HD2	2.02	0.57
3:D:885:VAL:HG12	3:D:886:VAL:CA	2.34	0.57
2:O:1289:GLU:N	2:O:1315:MET:HE2	2.19	0.57
3:D:1287:ILE:O	3:D:1291:GLU:HG3	2.04	0.57
1:B:88:LEU:HD13	1:B:128:HIS:ND1	2.19	0.57
2:I:298:ALA:HB2	2:I:336:LEU:CD2	2.34	0.57
2:I:1086:PRO:HB3	2:I:1212:LEU:HD22	1.86	0.57
2:I:1061:GLN:NE2	2:I:1240:ASP:OD1	2.36	0.57
2:I:447:HIS:HB3	2:I:450:ASN:ND2	2.19	0.57
2:I:1184:THR:O	2:I:1184:THR:HG23	2.04	0.57
2:I:309:LEU:N	2:I:309:LEU:HD23	2.19	0.57
2:I:1210:ILE:CG2	2:I:1211:ARG:H	2.16	0.57
1:B:76:GLU:HG3	1:B:80:GLU:OE2	2.04	0.57
2:I:598:VAL:HG13	2:I:627:GLY:HA2	1.86	0.57
6:4:21:DC:H2"	6:4:22:DC:C5	2.38	0.57
2:C:694:ARG:O	2:C:798:GLN:NE2	2.38	0.57
1:N:88:LEU:HD11	1:N:128:HIS:CE1	2.35	0.57
5:R:428:SER:HB2	6:7:40:DA:OP2	2.03	0.57
2:I:208:ILE:HG12	2:I:362:ALA:HB1	1.86	0.57
2:C:1292:THR:HG23	2:C:1293:VAL:HG13	1.85	0.57
3:D:806:ASP:OD1	3:D:1346:GLY:CA	2.40	0.57
5:L:410:ILE:O	5:L:413:MET:HB2	2.04	0.57
3:J:931:THR:CG2	3:J:1134:ILE:HB	2.34	0.57
5:R:574:GLU:HB3	5:R:578:LYS:NZ	2.19	0.57
2:C:282:VAL:CG1	2:C:285:ILE:HG13	2.33	0.57
3:J:796:LEU:O	3:J:800:LEU:HG	2.04	0.57
3:P:261:ALA:CB	5:R:519:LEU:HD23	2.34	0.57
2:I:1283:ALA:HA	3:J:479:GLU:OE1	2.05	0.57
2:C:82:VAL:CG2	2:C:83:GLN:H	2.18	0.57
3:D:492:SER:O	3:D:495:ASN:O	2.21	0.57
2:C:1269:ARG:HH12	3:D:340:GLN:HA	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:104:ILE:HD13	2:I:484:LEU:O	2.03	0.57
3:J:511:TYR:CD1	3:J:596:LEU:O	2.56	0.57
2:O:1337:ILE:HD11	3:P:20:ILE:CG2	2.34	0.57
2:I:565:GLU:CG	2:I:566:GLY:N	2.67	0.57
1:B:57:THR:CG2	1:B:158:ARG:HH12	2.18	0.57
1:M:43:LEU:O	1:M:47:LEU:CG	2.38	0.57
3:D:115:TRP:CZ3	3:D:1329:THR:HA	2.39	0.57
1:A:47:LEU:HD11	1:A:183:ILE:HD12	1.82	0.57
3:J:771:GLN:HA	3:J:774:ILE:HD11	1.80	0.57
4:K:7:GLN:O	4:K:11:GLU:HG3	2.05	0.57
2:O:1286:THR:CG2	3:P:479:GLU:OE2	2.52	0.57
3:J:1146:GLU:CD	3:J:1309:ILE:HB	2.24	0.57
5:L:387:VAL:HG23	5:L:412:LEU:HD23	1.86	0.57
5:F:98:VAL:HG22	5:F:402:LEU:CD2	2.35	0.57
2:C:259:GLY:CA	2:I:120:GLN:HB2	2.34	0.57
3:J:786:THR:OG1	3:J:932:MET:HG3	2.04	0.57
3:P:261:ALA:CB	5:R:519:LEU:CD2	2.82	0.57
3:P:218:THR:HG22	3:P:222:LYS:CE	2.29	0.57
6:4:47:DC:O2	6:4:48:DA:C2	2.57	0.57
3:J:1217:PRO:HG2	3:J:1218:HIS:ND1	2.19	0.57
2:O:155:VAL:CG2	2:O:405:PHE:CD2	2.87	0.57
3:D:253:VAL:HB	3:D:254:PRO:HD2	1.85	0.57
2:C:449:GLY:O	2:C:586:PHE:HE1	1.88	0.57
3:P:201:LEU:HB2	3:P:221:ILE:HD11	1.85	0.57
4:K:78:ALA:O	4:K:81:GLN:HG2	2.04	0.57
2:C:169:LYS:O	2:C:171:LEU:HG	2.05	0.57
2:I:455:SER:O	2:I:459:MET:HG3	2.04	0.57
7:8:37:DA:H2"	7:8:38:DG:OP2	2.04	0.57
2:O:1211:ARG:HH11	2:O:1211:ARG:HG3	1.68	0.57
5:F:262:VAL:CG1	5:F:263:PRO:HD2	2.34	0.57
5:F:137:TYR:CG	5:F:138:PRO:HD2	2.39	0.57
5:F:137:TYR:CE2	5:F:139:GLU:HB2	2.40	0.57
4:E:20:VAL:C	4:E:21:LEU:HD23	2.25	0.57
2:I:798:GLN:HE22	2:I:827:ARG:HG2	1.69	0.57
2:C:673:HIS:ND1	3:D:763:PHE:O	2.34	0.57
2:I:335:THR:CG2	2:I:336:LEU:H	2.11	0.57
1:M:61:ILE:HG12	1:M:142:MET:CB	2.35	0.57
2:O:1238:LEU:O	2:O:1242:LYS:HG3	2.04	0.57
2:I:245:ARG:HD3	2:I:337:PHE:CE1	2.39	0.57
3:P:1167:LYS:NZ	3:P:1187:GLU:OE2	2.35	0.57
3:P:1078:LEU:HG	3:P:1101:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1103:VAL:HB	2:I:1104:PRO:HD3	1.86	0.57
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.87	0.57
2:O:454:ARG:HD3	2:O:459:MET:SD	2.45	0.57
2:C:901:LEU:O	2:C:905:ILE:HG13	2.04	0.57
2:O:8:LYS:HD3	2:O:1168:GLU:CD	2.24	0.57
2:I:70:TYR:HA	2:I:100:LEU:HD23	1.86	0.57
2:O:1326:LEU:HD22	3:P:342:LEU:HD13	1.86	0.57
3:P:1199:PHE:O	3:P:1200:GLU:HB2	2.03	0.57
5:F:279:ARG:HH21	5:F:347:ILE:HG12	1.70	0.57
5:F:585:GLU:HG3	7:2:47:DC:N4	2.17	0.57
2:C:702:THR:HG22	2:C:1184:THR:O	2.03	0.57
3:D:185:ILE:O	3:D:189:LEU:CG	2.52	0.57
3:D:975:ILE:HD11	3:D:1003:LEU:HD11	1.86	0.57
2:C:1272:GLU:O	2:C:1275:VAL:HB	2.04	0.57
5:R:520:GLY:HA2	5:R:523:ILE:HD11	1.86	0.57
3:D:282:LEU:CD2	5:F:410:ILE:HG12	2.31	0.57
2:O:374:GLU:CD	5:R:99:ARG:HD3	2.24	0.57
2:O:184:LEU:HG	2:O:389:PHE:CE2	2.39	0.57
1:A:66:HIS:CE1	2:C:929:ILE:HG13	2.39	0.57
2:C:333:ILE:HG22	2:C:334:GLU:H	1.69	0.57
3:J:1029:THR:HG21	3:J:1121:LEU:HD11	1.86	0.57
2:C:112:GLY:C	2:C:114:VAL:N	2.56	0.57
3:P:536:LEU:CD2	3:P:541:LEU:CB	2.82	0.57
3:P:918:ILE:O	3:P:922:SER:OG	2.23	0.57
2:I:402:ARG:NH2	2:I:417:SER:O	2.38	0.57
3:P:403:ARG:HD3	3:P:405:GLU:OE2	2.05	0.57
4:K:22:VAL:HG22	4:K:61:ASN:ND2	2.19	0.57
3:P:665:GLN:O	3:P:668:PHE:HB3	2.04	0.57
3:J:1109:LEU:HD22	3:J:1113:VAL:HG11	1.87	0.57
3:J:1328:THR:HG22	3:J:1332:LEU:HD11	1.87	0.57
5:R:388:ILE:CG2	5:R:389:SER:N	2.67	0.57
3:D:1331:VAL:O	3:D:1334:GLU:HB2	2.04	0.57
2:I:137:VAL:C	2:I:138:ILE:CD1	2.59	0.57
2:O:227:LYS:CE	2:O:334:GLU:OE1	2.52	0.57
2:O:1283:ALA:HB1	3:P:479:GLU:CD	2.25	0.57
5:F:98:VAL:CG2	5:F:402:LEU:HD21	2.34	0.57
3:P:511:TYR:HE2	3:P:724:MET:HE3	1.70	0.57
3:D:1138:LEU:HD23	3:D:1139:PRO:CD	2.34	0.57
3:J:1105:ALA:O	3:J:1107:VAL:HG23	2.04	0.57
3:J:473:THR:CB	3:J:475:GLU:OE1	2.47	0.57
2:I:1276:TRP:HE1	3:J:1348:LYS:HE2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:31:LEU:HD13	1:H:36:GLY:HA2	1.87	0.57
3:P:1259:GLN:OE1	3:P:1262:ARG:HD2	2.04	0.57
2:C:1322:SER:O	2:C:1325:VAL:HB	2.04	0.57
5:F:395:THR:HA	5:F:404:LEU:HD11	1.85	0.57
3:P:968:ASN:HB3	3:P:1118:GLY:HA3	1.87	0.57
5:R:295:CYS:O	5:R:296:LYS:CB	2.52	0.57
3:D:972:LYS:HE2	3:D:1002:VAL:HG11	1.87	0.57
1:B:155:ALA:HB2	1:B:174:ASP:OD1	2.05	0.57
5:L:493:LYS:O	5:L:497:VAL:HG23	2.04	0.57
1:B:70:THR:HG23	1:B:70:THR:O	2.04	0.57
3:D:395:LYS:HA	3:D:398:LYS:HG2	1.87	0.57
3:J:601:ILE:O	3:J:605:LEU:CD2	2.53	0.57
2:C:1268:GLN:HA	7:2:16:DC:OP1	2.04	0.57
2:O:1085:MET:HE2	2:O:1085:MET:HA	1.85	0.57
3:P:1146:GLU:OE1	3:P:1309:ILE:HB	2.05	0.57
3:P:534:GLU:O	3:P:538:ARG:HG2	2.04	0.57
6:7:51:DC:C2'	6:7:52:DT:H5'	2.30	0.57
3:P:1257:VAL:HA	3:P:1260:MET:HE2	1.87	0.57
1:G:44:ARG:HG3	1:G:183:ILE:HG23	1.85	0.57
3:P:737:ILE:HG22	3:P:738:ARG:CA	2.35	0.57
2:I:1294:LYS:HB3	3:J:347:VAL:HG12	1.87	0.57
3:P:269:TYR:O	3:P:272:VAL:HB	2.05	0.57
2:O:1073:LYS:HE3	3:P:462:ASP:OD2	2.04	0.57
6:4:47:DC:C2	6:4:48:DA:C2	2.93	0.57
2:C:934:PHE:CB	2:C:1049:ILE:HD12	2.35	0.57
3:D:849:LEU:HD13	3:D:850:LYS:H	1.67	0.57
3:J:138:VAL:HG21	3:J:145:VAL:HB	1.87	0.57
1:G:57:THR:HG23	1:G:158:ARG:NH2	2.20	0.57
3:J:109:SER:HB2	3:J:296:LYS:HE2	1.86	0.57
2:O:338:THR:HA	2:O:343:HIS:O	2.04	0.57
5:L:604:SER:HB3	5:L:607:LEU:HB2	1.87	0.57
2:O:598:VAL:HG13	2:O:627:GLY:HA2	1.86	0.57
2:O:878:THR:HG22	2:O:879:GLY:N	2.20	0.57
3:J:379:PRO:HA	3:J:382:TYR:CD2	2.40	0.57
3:P:1135:THR:O	3:P:1139:PRO:HD2	2.04	0.57
3:D:839:VAL:O	3:D:842:ARG:HG3	2.04	0.57
2:O:1289:GLU:HA	2:O:1293:VAL:HG22	1.86	0.57
2:I:178:PRO:CB	2:I:397:LEU:HD23	2.34	0.57
3:J:424:ASN:O	3:J:466:MET:HG2	2.05	0.57
5:L:555:GLU:O	5:L:559:LEU:HG	2.04	0.57
3:J:1190:ILE:HD13	3:J:1196:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.34	0.57
3:J:68:TYR:CA	3:J:92:VAL:HG13	2.34	0.57
1:H:178:SER:HB2	3:J:535:ARG:NH1	2.19	0.57
3:P:589:TYR:O	3:P:591:ILE:N	2.38	0.57
3:J:1208:ASP:O	3:J:1210:ILE:HD12	2.05	0.57
2:O:593:LYS:HA	2:O:652:TYR:CD1	2.40	0.57
2:O:153:PRO:HA	2:O:177:ILE:CG2	2.35	0.57
2:C:432:LEU:HA	2:C:435:ILE:HD12	1.86	0.57
1:B:100:LEU:HB3	1:B:115:ILE:HD12	1.87	0.57
2:I:189:ASP:OD2	2:I:190:PRO:HD2	2.04	0.57
2:C:1291:LEU:HD13	3:D:1354:GLY:HA2	1.86	0.57
1:N:44:ARG:CD	1:N:185:TYR:HE1	2.08	0.57
1:H:189:ALA:HA	1:H:199:ASP:CB	2.35	0.57
2:C:262:TYR:CE2	2:C:277:LEU:HD13	2.40	0.57
3:D:909:ILE:HD13	3:D:910:ASN:C	2.26	0.57
1:N:102:LEU:HG	1:N:103:ASN:N	2.19	0.57
2:C:90:VAL:HG13	2:C:91:THR:H	1.70	0.57
3:D:147:ILE:CD1	3:D:178:ALA:CA	2.82	0.57
3:J:246:PRO:HB2	3:J:249:LEU:HG	1.86	0.57
5:L:155:GLU:O	5:L:156:ALA:HB2	2.05	0.57
5:F:452:ILE:HG21	5:F:457:ILE:CD1	2.35	0.56
3:J:62:PHE:CD2	3:J:247:PRO:HG3	2.40	0.56
2:I:489:PRO:O	2:I:493:ILE:HG13	2.05	0.56
2:C:75:LEU:HD22	2:C:94:ALA:HB1	1.87	0.56
2:O:374:GLU:HB2	5:R:99:ARG:NH1	2.19	0.56
3:D:1320:ILE:HD11	3:D:1342:ASP:HB3	1.87	0.56
3:D:521:LYS:HZ2	3:D:541:LEU:HD23	1.70	0.56
2:C:934:PHE:O	2:C:1048:LYS:CG	2.53	0.56
3:D:1176:VAL:HG13	3:D:1187:GLU:HG2	1.87	0.56
3:J:147:ILE:O	3:J:148:GLU:HB2	2.05	0.56
2:C:560:PRO:O	3:D:780:ARG:NH2	2.37	0.56
2:I:94:ALA:CB	2:I:129:LEU:HD11	2.34	0.56
2:O:1330:ILE:HA	2:O:1333:LEU:HD12	1.87	0.56
3:J:588:PRO:O	3:J:591:ILE:HG13	2.05	0.56
1:H:75:GLN:CG	1:H:134:THR:HG23	2.35	0.56
1:A:203:ILE:HG22	1:A:205:MET:CE	2.34	0.56
2:C:495:ALA:HA	2:C:498:ILE:HD12	1.87	0.56
2:C:834:GLN:HG2	2:C:836:LEU:HD21	1.85	0.56
2:I:179:TYR:OH	2:I:462:ASN:OD1	2.18	0.56
3:D:74:LYS:HE3	6:I:24:DC:OP2	2.05	0.56
3:P:478:LEU:HD11	4:Q:23:ALA:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:45:ARG:HD3	1:N:38:THR:HG23	1.87	0.56
5:F:452:ILE:HG23	5:F:456:MET:HB3	1.87	0.56
1:A:38:THR:HG21	1:B:42:ALA:O	2.05	0.56
3:P:366:CYS:SG	3:P:437:PHE:HB2	2.45	0.56
5:L:456:MET:O	5:L:460:ILE:HG13	2.05	0.56
5:L:412:LEU:CD1	5:L:415:ALA:HB3	2.29	0.56
3:J:681:LYS:O	3:J:685:ILE:CG1	2.45	0.56
3:D:1138:LEU:HD23	3:D:1139:PRO:HD3	1.87	0.56
2:O:870:ILE:HG13	2:O:944:ARG:HG2	1.86	0.56
3:D:694:SER:OG	3:D:738:ARG:CD	2.50	0.56
3:D:497:GLU:HB3	3:D:498:PRO:CD	2.30	0.56
1:M:56:VAL:CG1	1:M:144:ILE:HG23	2.33	0.56
2:C:564:PRO:HB3	8:3:13:GTP:O1A	2.05	0.56
1:B:47:LEU:HD13	1:B:183:ILE:HD11	1.87	0.56
3:P:930:LEU:HD22	3:P:1134:ILE:HG13	1.87	0.56
3:J:709:ARG:O	3:J:709:ARG:HG3	2.04	0.56
3:J:514:THR:HG21	3:J:596:LEU:HB2	1.87	0.56
5:F:517:SER:HB2	5:F:521:ASP:HB2	1.87	0.56
1:M:45:ARG:HH12	2:O:1215:GLY:C	2.08	0.56
5:R:386:LEU:CD1	6:7:41:DT:O4'	2.49	0.56
2:I:205:PRO:O	2:I:208:ILE:HG22	2.06	0.56
3:P:1138:LEU:CD2	3:P:1139:PRO:HD3	2.35	0.56
2:O:347:ILE:O	2:O:350:THR:HB	2.05	0.56
2:O:186:PHE:CD2	2:O:186:PHE:N	2.72	0.56
5:L:457:ILE:O	5:L:461:ASN:CG	2.42	0.56
3:J:275:ARG:HD3	3:J:298:MET:HB3	1.86	0.56
5:R:87:VAL:HG11	5:R:103:ARG:HD3	1.87	0.56
2:C:673:HIS:C	3:D:763:PHE:HD1	2.09	0.56
2:C:1232:MET:O	2:C:1233:LEU:HG	2.05	0.56
8:3:13:GTP:C8	8:3:13:GTP:PA	2.96	0.56
2:C:896:THR:HG22	2:C:899:GLU:CD	2.24	0.56
3:D:536:LEU:CD1	3:D:542:ALA:HB2	2.35	0.56
1:M:152:TYR:HD1	1:M:175:ALA:O	1.86	0.56
3:P:930:LEU:HB3	3:P:1134:ILE:CD1	2.35	0.56
2:O:865:LEU:HD13	2:O:869:GLY:HA2	1.88	0.56
3:P:530:PRO:HB2	3:P:581:MET:SD	2.45	0.56
5:R:166:VAL:HG12	5:R:168:PRO:HD3	1.88	0.56
2:I:152:SER:HB3	2:I:452:ARG:HB2	1.86	0.56
3:P:839:VAL:CG1	3:P:839:VAL:O	2.53	0.56
1:N:73:GLY:HA3	1:N:138:ALA:HB2	1.87	0.56
1:B:106:GLY:HA2	1:B:136:GLU:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:374:ARG:HA	5:L:377:LYS:HD2	1.88	0.56
3:P:875:ASN:O	3:P:876:SER:HB2	2.05	0.56
3:J:978:ARG:HB2	3:J:1212:ASP:HB3	1.87	0.56
3:D:1283:SER:HA	3:D:1286:LYS:HD3	1.86	0.56
2:C:1289:GLU:HG2	2:C:1293:VAL:HG21	1.86	0.56
2:O:428:VAL:HG12	2:O:429:MET:N	2.21	0.56
3:P:1253:ILE:O	3:P:1257:VAL:HG23	2.06	0.56
1:M:154:PRO:CD	1:M:157:THR:OG1	2.53	0.56
2:O:804:PHE:HE1	2:O:1103:VAL:HG21	1.69	0.56
1:M:158:ARG:NE	1:M:172:LEU:HD21	2.18	0.56
3:P:689:ALA:O	3:P:693:VAL:HB	2.04	0.56
1:M:78:ILE:O	1:M:82:LEU:HG	2.06	0.56
7:8:22:DA:H1'	7:8:23:DT:OP2	2.04	0.56
3:J:68:TYR:OH	3:J:94:GLN:HG2	2.05	0.56
1:G:231:PHE:HZ	1:H:39:LEU:HB3	1.70	0.56
1:M:106:GLY:O	1:M:133:LEU:HB3	2.05	0.56
3:J:978:ARG:HG3	3:J:1212:ASP:CG	2.25	0.56
2:I:938:GLY:HA2	5:L:481:GLU:OE2	2.04	0.56
5:R:320:ILE:HD11	5:R:330:LEU:HD13	1.87	0.56
2:O:280:ASP:O	2:O:281:ASP:HB2	2.04	0.56
5:F:585:GLU:CB	7:2:46:DT:H71	2.34	0.56
1:N:88:LEU:CD1	1:N:128:HIS:CE1	2.87	0.56
5:L:457:ILE:HD13	5:L:460:ILE:HD12	1.87	0.56
3:D:583:VAL:CG1	3:D:587:LEU:HD12	2.35	0.56
3:P:697:MET:HE1	3:P:737:ILE:HG22	1.88	0.56
3:J:34:SER:CB	3:J:104:HIS:HB3	2.35	0.56
5:L:551:LEU:HB2	5:L:556:ALA:HB2	1.88	0.56
5:L:395:THR:O	5:L:396:ASN:C	2.44	0.56
2:I:245:ARG:HD3	2:I:337:PHE:CD1	2.40	0.56
2:I:15:PHE:CE2	2:I:1182:ILE:CG2	2.88	0.56
2:I:840:SER:OG	2:I:1048:LYS:O	2.21	0.56
2:C:804:PHE:O	2:C:805:MET:HB3	2.04	0.56
1:N:74:VAL:HG22	1:N:133:LEU:CD2	2.36	0.56
2:O:539:THR:HB	2:O:542:ARG:HB3	1.87	0.56
3:P:48:THR:HB	3:P:50:LYS:HE3	1.88	0.56
3:D:416:ILE:HD12	3:D:441:LEU:CD1	2.35	0.56
1:B:60:GLU:O	1:B:142:MET:HB2	2.06	0.56
2:I:753:LEU:HD22	2:I:767:GLN:HB3	1.88	0.56
3:J:385:LEU:HD22	3:J:391:ALA:CB	2.27	0.56
2:C:1309:VAL:O	3:D:383:GLY:HA3	2.06	0.56
3:J:501:VAL:HG12	3:J:502:PRO:HD2	1.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:49:DG:H2'	6:7:50:DT:C1'	2.35	0.56
3:D:279:LEU:HG	3:D:280:LYS:N	2.20	0.56
2:I:1289:GLU:HA	2:I:1293:VAL:CG2	2.35	0.56
3:J:1326:GLN:HE21	7:5:11:DA:H4'	1.71	0.56
2:O:1230:MET:SD	2:O:1232:MET:HE1	2.45	0.56
3:P:885:VAL:HG11	3:P:1255:VAL:HA	1.88	0.56
6:4:47:DC:H4'	6:4:48:DA:OP1	2.06	0.56
2:O:668:ILE:HD11	2:O:686:GLN:HE22	1.71	0.56
2:O:153:PRO:HA	2:O:177:ILE:HG22	1.87	0.56
2:I:1282:GLY:O	3:J:1361:THR:OG1	2.22	0.56
2:O:179:TYR:HB3	2:O:396:ASP:O	2.05	0.56
2:O:218:GLU:OE1	2:O:299:LYS:HD2	2.06	0.56
2:C:76:GLY:HA3	2:C:95:PRO:HG2	1.88	0.56
1:M:22:THR:OG1	1:M:207:THR:O	2.13	0.56
3:D:112:ALA:HB3	3:D:300:GLN:NE2	2.20	0.56
5:F:452:ILE:HG23	5:F:456:MET:HG2	1.87	0.56
2:C:1278:LEU:CD2	2:C:1286:THR:OG1	2.53	0.56
5:L:583:THR:HG21	5:L:586:ARG:HB3	1.86	0.56
1:N:40:GLY:HA2	1:N:43:LEU:HD12	1.87	0.56
2:O:1161:LEU:HG	2:O:1162:SER:N	2.21	0.56
2:O:1294:LYS:HE2	3:P:472:LEU:CD1	2.27	0.56
2:O:1324:ASN:O	2:O:1328:LYS:HG2	2.06	0.56
2:I:524:ILE:HD11	2:I:712:SER:CA	2.35	0.56
2:I:561:ILE:HG21	2:I:676:ALA:HB1	1.88	0.56
2:I:1269:ARG:HG3	3:J:346:ARG:N	2.20	0.56
3:P:326:SER:O	3:P:329:ASP:HB2	2.05	0.56
5:L:489:MET:HB3	5:L:490:PRO:CD	2.36	0.56
5:F:451:ARG:NH1	6:1:32:DA:P	2.79	0.56
3:J:1123:ARG:O	3:J:1125:PRO:HD3	2.06	0.56
3:D:1266:ILE:HB	3:D:1278:GLU:HB2	1.87	0.56
6:1:42:DG:OP2	6:1:42:DG:H3'	2.06	0.56
1:B:76:GLU:CG	1:B:80:GLU:OE2	2.54	0.56
2:O:607:SER:OG	2:O:610:GLU:HG3	2.05	0.56
3:J:551:ARG:O	3:J:552:ILE:HD13	2.05	0.56
2:I:398:SER:OG	2:I:399:ALA:N	2.39	0.56
2:O:955:GLN:HA	2:O:955:GLN:OE1	2.05	0.56
3:P:392:THR:OG1	3:P:393:THR:N	2.39	0.56
2:C:590:PRO:HB3	2:C:605:TYR:CZ	2.40	0.56
1:M:51:MET:CE	1:M:211:ILE:HG21	2.36	0.56
5:F:137:TYR:CE1	5:F:353:LEU:HD21	2.41	0.56
3:D:1346:GLY:CA	3:D:1349:GLU:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:102:MET:CE	5:L:105:MET:HE2	2.36	0.56
5:L:105:MET:CB	5:L:384:LEU:HD13	2.36	0.56
3:D:923:ILE:HD13	3:D:1253:ILE:HG13	1.87	0.56
3:P:795:TYR:CD1	7:8:12:DG:H5"	2.41	0.56
3:D:544:LEU:HA	3:D:574:VAL:HB	1.88	0.56
2:C:660:VAL:HG12	2:C:661:VAL:HG22	1.88	0.56
2:I:167:SER:CB	3:J:1064:SER:CB	2.84	0.56
2:I:881:ASP:O	2:I:920:VAL:HG23	2.06	0.56
3:J:882:VAL:HG22	3:J:882:VAL:O	2.06	0.56
2:I:623:LEU:HD23	2:I:628:HIS:C	2.25	0.56
3:D:746:LEU:HD23	3:D:758:PRO:HB3	1.86	0.56
1:N:158:ARG:CD	1:N:172:LEU:HD21	2.33	0.56
3:P:270:ARG:HE	5:R:449:THR:HG23	1.71	0.56
3:D:701:LEU:HD11	3:D:720:ASN:ND2	2.21	0.56
4:Q:12:LYS:HG2	4:Q:54:ILE:O	2.06	0.56
6:1:24:DC:H2"	6:1:25:DC:OP2	2.06	0.56
2:C:18:ARG:HG2	2:C:1188:ASP:OD2	2.06	0.56
1:M:45:ARG:HD3	1:N:38:THR:CG2	2.36	0.56
2:C:520:PRO:O	2:C:524:ILE:HG13	2.06	0.56
2:C:766:ASN:ND2	2:C:766:ASN:C	2.58	0.56
5:F:452:ILE:HG22	5:F:457:ILE:CD1	2.35	0.56
2:C:1284:ALA:O	2:C:1287:LEU:CD2	2.49	0.56
3:P:432:LEU:HD13	3:P:435:GLN:NE2	2.21	0.56
6:4:30:DG:O6	7:5:32:DA:N6	2.39	0.56
5:L:102:MET:HB3	6:4:42:DG:N2	2.20	0.56
5:L:102:MET:HE1	5:L:105:MET:CE	2.34	0.56
2:O:823:VAL:HG12	2:O:1059:ARG:NH2	2.21	0.56
3:D:245:LEU:CD1	3:D:249:LEU:HD12	2.36	0.56
3:D:147:ILE:HD12	3:D:178:ALA:HA	1.86	0.56
3:P:1278:GLU:HA	3:P:1278:GLU:OE1	2.06	0.56
5:R:401:PHE:O	5:R:405:ILE:HG13	2.06	0.56
2:O:12:ARG:HA	2:O:1181:PRO:O	2.06	0.56
3:D:1179:PRO:HB2	3:D:1182:GLY:O	2.06	0.56
3:P:984:LEU:HD23	3:P:992:LYS:HB3	1.87	0.56
2:O:34:SER:OG	2:O:455:SER:HB2	2.05	0.56
3:D:702:GLN:HG3	3:D:723:TYR:CZ	2.41	0.56
2:I:1237:HIS:O	2:I:1238:LEU:HD23	2.06	0.56
2:I:821:ARG:O	2:I:825:GLU:HG3	2.06	0.56
1:N:150:ARG:HB2	1:N:150:ARG:HH11	1.70	0.56
2:C:646:SER:O	2:C:650:VAL:HG23	2.06	0.56
3:J:395:LYS:HD2	5:L:610:PHE:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:235:ILE:HD11	5:L:249:ILE:HD11	1.88	0.56
2:C:136:PHE:CE1	2:C:506:PHE:HE1	2.23	0.56
2:C:73:TYR:HB3	2:C:98:VAL:HG22	1.88	0.56
3:P:135:ILE:HG22	3:P:139:LEU:HD11	1.88	0.56
3:J:224:LEU:O	3:J:227:PHE:HB3	2.06	0.56
3:D:885:VAL:CG1	3:D:886:VAL:HG22	2.36	0.56
2:O:1288:GLN:HB3	2:O:1315:MET:CE	2.37	0.56
3:D:135:ILE:O	3:D:138:VAL:HB	2.06	0.56
3:J:1145:PHE:HB3	3:J:1309:ILE:CD1	2.24	0.56
1:H:61:ILE:HB	1:H:64:VAL:HB	1.87	0.56
3:P:822:MET:HE2	3:P:838:ARG:NE	2.21	0.56
2:I:149:LEU:HD11	2:I:451:ARG:NE	2.21	0.56
3:D:519:ASN:HA	3:D:523:GLU:HB2	1.88	0.56
2:O:739:ASP:OD1	2:O:739:ASP:N	2.36	0.56
2:O:49:LEU:HD13	2:O:73:TYR:CE1	2.41	0.56
3:P:361:LEU:HD22	3:P:365:GLN:HB2	1.86	0.56
3:D:1169:THR:OG1	3:D:1174:ARG:NH2	2.35	0.56
5:F:540:LEU:HD13	5:F:610:PHE:CE2	2.40	0.56
2:I:1199:LEU:HD23	2:I:1204:LEU:HD13	1.88	0.56
2:O:1081:PRO:CB	2:O:1083:GLU:OE1	2.54	0.56
3:D:972:LYS:CE	3:D:1002:VAL:HG11	2.36	0.56
3:J:1100:PHE:HB2	3:J:1193:TRP:CB	2.34	0.56
3:P:1093:THR:HG22	3:P:1199:PHE:HB3	1.88	0.56
1:B:59:VAL:HG22	1:B:144:ILE:HG12	1.88	0.56
6:1:36:DT:O3'	6:1:37:DA:P	2.64	0.56
3:P:185:ILE:O	3:P:189:LEU:HD12	2.06	0.55
3:D:1226:VAL:C	3:D:1229:VAL:CG1	2.71	0.55
2:C:432:LEU:HG	2:C:433:ILE:N	2.17	0.55
3:J:749:LYS:HG3	3:J:755:ILE:HG12	1.88	0.55
5:F:587:ILE:HG23	5:F:590:ILE:HD12	1.88	0.55
3:P:512:TYR:CE2	3:P:635:SER:HB2	2.41	0.55
2:O:149:LEU:CG	2:O:451:ARG:HE	2.19	0.55
1:A:192:VAL:CG2	1:A:195:ARG:O	2.54	0.55
2:C:237:LEU:HG	2:C:289:VAL:CG2	2.26	0.55
3:J:428:THR:HG21	3:J:921:GLN:NE2	2.21	0.55
2:O:217:THR:CG2	2:O:313:ALA:HB1	2.29	0.55
2:I:805:MET:HE2	2:I:806:PRO:O	2.06	0.55
5:L:221:PHE:HB3	5:L:225:ARG:NH2	2.20	0.55
6:4:47:DC:O2	6:4:48:DA:N3	2.39	0.55
2:I:988:LYS:HZ3	2:I:992:LEU:HD11	1.70	0.55
2:C:530:ILE:HD11	2:C:575:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:632:ALA:O	3:J:635:SER:OG	2.23	0.55
1:A:106:GLY:HA2	1:A:136:GLU:HA	1.87	0.55
7:2:29:DC:H2"	7:2:30:DA:C8	2.41	0.55
2:C:699:LEU:HG	2:C:799:ASN:OD1	2.06	0.55
2:I:1337:ILE:HD12	3:J:22:ILE:CD1	2.34	0.55
5:F:551:LEU:HD13	5:F:559:LEU:CD1	2.36	0.55
3:J:182:ALA:HA	3:J:185:ILE:HD11	1.85	0.55
2:C:374:GLU:HG3	2:C:375:PRO:HD2	1.88	0.55
3:D:133:ARG:HA	3:D:136:GLU:CG	2.36	0.55
2:I:1069:ARG:NH2	2:I:1231:TYR:CD2	2.74	0.55
1:H:31:LEU:CD1	1:H:36:GLY:HA2	2.37	0.55
2:O:168:GLY:O	3:P:1065:ALA:CB	2.55	0.55
5:F:290:LEU:O	5:F:294:GLN:HB2	2.06	0.55
5:R:166:VAL:HG12	5:R:167:ASP:N	2.21	0.55
5:L:574:GLU:O	5:L:578:LYS:HG3	2.06	0.55
3:J:1163:VAL:HG22	3:J:1177:ILE:HG23	1.87	0.55
2:O:105:TYR:CE1	2:O:113:THR:HB	2.41	0.55
2:O:761:GLN:O	2:O:762:ASN:HB2	2.06	0.55
3:D:377:PHE:O	3:D:381:ILE:HG13	2.06	0.55
1:B:68:TYR:CD1	1:B:79:LEU:CD2	2.83	0.55
2:I:191:LYS:HG2	3:J:1069:ALA:HB3	1.89	0.55
3:J:321:LYS:O	3:J:321:LYS:HG2	2.06	0.55
1:M:11:PRO:HD2	1:N:227:GLN:CA	2.37	0.55
3:J:427:PRO:HB3	7:5:14:DC:H1'	1.87	0.55
2:O:550:VAL:O	3:P:777:HIS:CE1	2.58	0.55
3:D:697:MET:CE	3:D:738:ARG:HG2	2.36	0.55
2:O:830:THR:CG2	2:O:1234:LYS:NZ	2.70	0.55
5:L:395:THR:O	5:L:396:ASN:O	2.24	0.55
5:F:385:ARG:O	5:F:388:ILE:CG2	2.53	0.55
2:O:303:ASP:HB2	2:O:310:ILE:HG13	1.87	0.55
2:C:854:ILE:CD1	2:C:862:LEU:HD23	2.35	0.55
2:O:800:MET:SD	2:O:828:PHE:CE1	2.99	0.55
2:O:405:PHE:CD1	2:O:406:ASN:OD1	2.60	0.55
2:C:1112:ILE:HG22	3:D:641:ILE:HG12	1.88	0.55
2:C:1116:HIS:NE2	3:D:641:ILE:HG13	2.21	0.55
2:C:562:GLU:O	2:C:563:THR:HB	2.06	0.55
2:O:1088:ASP:CG	2:O:1092:THR:O	2.44	0.55
2:I:1205:PRO:HD2	2:I:1210:ILE:HD11	1.88	0.55
6:1:46:DG:H5"	6:1:46:DG:H8	1.72	0.55
3:P:1179:PRO:HD2	3:P:1184:ASP:O	2.06	0.55
3:J:543:SER:O	3:J:574:VAL:HG21	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1338:ALA:HB3	3:J:1340:LYS:HG3	1.87	0.55
2:C:940:GLU:HG2	2:C:941:LYS:HD2	1.88	0.55
3:D:1023:HIS:O	3:D:1024:THR:CB	2.54	0.55
3:D:113:HIS:CD2	3:D:115:TRP:HB2	2.41	0.55
3:D:424:ASN:HB3	3:D:467:ALA:HB3	1.87	0.55
2:C:1276:TRP:HD1	2:C:1279:GLU:OE1	1.90	0.55
2:O:227:LYS:HE2	2:O:298:ALA:HB1	1.87	0.55
5:R:452:ILE:HB	5:R:457:ILE:HD11	1.88	0.55
2:O:1112:ILE:HD11	3:P:639:VAL:HB	1.88	0.55
3:J:428:THR:CG2	3:J:921:GLN:HE22	2.19	0.55
3:D:251:PRO:O	5:F:507:MET:CE	2.54	0.55
5:F:277:MET:CE	5:F:362:ASN:HD22	2.19	0.55
2:I:1283:ALA:HB1	3:J:479:GLU:CD	2.27	0.55
3:D:1101:LEU:HD13	3:D:1107:VAL:CG2	2.37	0.55
3:P:30:ILE:HG12	3:P:33:TRP:CZ3	2.40	0.55
2:I:890:LYS:HZ3	2:I:893:THR:HG23	1.72	0.55
1:H:162:GLU:OE1	1:H:166:ARG:CZ	2.55	0.55
3:J:519:ASN:N	3:J:519:ASN:OD1	2.39	0.55
2:O:522:SER:O	2:O:525:THR:HG22	2.07	0.55
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.35	0.55
2:C:1104:PRO:CG	3:D:725:MET:HE1	2.36	0.55
3:D:645:VAL:HG23	3:D:645:VAL:O	2.06	0.55
1:G:99:ILE:HG12	1:G:145:LYS:HG3	1.88	0.55
2:I:1238:LEU:O	2:I:1242:LYS:HG3	2.07	0.55
2:O:617:ALA:HB3	2:O:653:MET:HG3	1.88	0.55
2:O:25:PRO:O	2:O:27:LEU:CD2	2.54	0.55
3:J:449:LEU:HD11	3:J:453:VAL:CG2	2.37	0.55
1:H:193:GLU:C	1:H:194:GLN:HG2	2.26	0.55
2:O:1108:ASN:OD1	2:O:1108:ASN:N	2.31	0.55
3:D:1165:PHE:HE1	3:D:1199:PHE:O	1.89	0.55
3:P:943:ARG:O	3:P:944:ALA:HB2	2.07	0.55
1:B:162:GLU:HG2	1:B:164:ASP:HB3	1.88	0.55
3:J:338:PHE:CE2	3:J:1328:THR:HG21	2.41	0.55
1:M:41:ASN:HD21	2:O:1218:GLY:CA	2.19	0.55
2:C:448:LEU:CG	2:C:553:THR:HB	2.36	0.55
3:J:843:VAL:CG1	3:J:883:ARG:HD3	2.26	0.55
3:D:614:LEU:O	3:D:618:VAL:HG23	2.06	0.55
2:O:727:VAL:H	2:O:773:LEU:CD2	2.20	0.55
2:C:1107:MET:CE	3:D:740:LEU:CD2	2.84	0.55
3:P:322:ARG:HB2	3:P:323:PRO:HD2	1.88	0.55
2:O:559:CYS:HB2	2:O:662:SER:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:LEU:HD11	1:B:128:HIS:HB3	1.87	0.55
1:B:190:ALA:CB	1:B:200:LYS:HG3	2.30	0.55
2:I:1054:LEU:CD2	2:I:1055:ALA:H	2.19	0.55
6:1:55:DC:H2"	6:1:56:DG:OP2	2.07	0.55
2:O:1252:SER:CA	2:O:1259:LEU:HD21	2.36	0.55
3:J:591:ILE:HG21	3:J:604:MET:HG2	1.89	0.55
2:O:643:SER:OG	2:O:644:LEU:N	2.39	0.55
2:I:1225:VAL:CG1	2:I:1226:THR:N	2.68	0.55
2:I:1256:GLN:HE22	3:J:96:LYS:NZ	2.04	0.55
2:C:820:GLU:OE1	2:C:1081:PRO:HA	2.06	0.55
3:J:371:LYS:NZ	3:J:371:LYS:HB3	2.21	0.55
3:P:1212:ASP:OD1	3:P:1212:ASP:N	2.27	0.55
3:D:484:MET:CE	3:D:484:MET:HB3	2.37	0.55
3:J:352:ARG:O	3:J:372:MET:CE	2.54	0.55
1:M:39:LEU:H	1:M:39:LEU:CD2	2.14	0.55
1:N:37:HIS:NE2	1:N:187:VAL:HG21	2.22	0.55
2:C:667:LEU:HD22	2:C:705:GLU:OE2	2.07	0.55
3:J:483:LEU:HD11	4:K:17:PHE:CE1	2.41	0.55
2:C:685:MET:CE	2:C:1073:LYS:HD3	2.36	0.55
3:D:368:LEU:HD22	3:D:439:PRO:HB3	1.89	0.55
2:I:188:PHE:CE2	2:I:432:LEU:HD11	2.41	0.55
3:J:1069:ALA:HA	3:J:1072:LYS:HE2	1.89	0.55
2:O:809:GLY:CA	3:P:629:PHE:CE1	2.90	0.55
3:D:79:LYS:NZ	5:F:569:THR:CB	2.69	0.55
2:I:448:LEU:HD23	2:I:448:LEU:N	2.21	0.55
2:C:878:THR:CG2	2:C:879:GLY:N	2.70	0.55
2:O:867:GLU:HG3	2:O:868:SER:N	2.21	0.55
3:D:192:MET:HE3	3:D:197:GLU:OE2	2.05	0.55
3:J:1081:VAL:HB	3:J:1086:ASN:O	2.07	0.55
3:D:36:GLY:C	3:D:104:HIS:CE1	2.80	0.55
1:N:38:THR:CA	1:N:39:LEU:HD23	2.37	0.55
3:D:1230:THR:HA	3:D:1233:ILE:CD1	2.37	0.55
3:D:1226:VAL:HG22	3:D:1304:ARG:HH12	1.72	0.55
2:I:289:VAL:CG1	2:I:322:LEU:HD13	2.36	0.55
2:I:211:ARG:HD3	2:I:357:ASN:O	2.05	0.55
2:C:1273:MET:HB2	2:C:1274:GLU:OE1	2.06	0.55
2:I:90:VAL:CG1	2:I:91:THR:H	2.20	0.55
2:I:165:HIS:HB3	2:I:168:GLY:N	2.19	0.55
2:O:1104:PRO:CB	3:P:725:MET:HE1	2.36	0.55
3:P:622:ASP:O	3:P:625:MET:HB3	2.06	0.55
2:I:1258:PRO:HG2	3:J:346:ARG:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ASP:HB2	2:C:310:ILE:CD1	2.34	0.55
5:L:392:LYS:HA	5:L:395:THR:CG2	2.37	0.55
2:I:15:PHE:O	2:I:17:LYS:HE3	2.06	0.55
2:I:232:ILE:HD13	2:I:326:SER:HB3	1.89	0.55
2:I:717:VAL:CG1	2:I:718:ALA:N	2.70	0.55
3:D:504:GLN:HG2	3:D:505:ASP:OD1	2.07	0.55
1:A:45:ARG:HD3	1:B:38:THR:HG1	1.69	0.55
3:J:814:CYS:HB2	3:J:889:ASP:HB3	1.89	0.55
2:O:1085:MET:CA	2:O:1085:MET:CE	2.84	0.55
2:I:163:LYS:CG	2:I:164:THR:N	2.70	0.55
2:O:196:VAL:HG12	2:O:197:ARG:N	2.21	0.55
3:P:820:ILE:CD1	3:P:1230:THR:HB	2.36	0.55
2:O:230:PHE:CE1	2:O:292:ILE:CD1	2.90	0.55
3:D:108:ALA:CB	3:D:279:LEU:HD21	2.30	0.55
2:I:1294:LYS:HB3	3:J:347:VAL:CG1	2.36	0.55
3:D:116:PHE:C	3:D:124:ILE:HD11	2.27	0.55
2:O:839:VAL:HG13	2:O:1049:ILE:HG12	1.89	0.55
3:D:625:MET:HG2	3:D:629:PHE:CE2	2.42	0.55
5:F:443:ILE:HG23	5:F:444:ALA:N	2.22	0.55
1:N:57:THR:HG23	1:N:158:ARG:NH2	2.22	0.55
3:D:435:GLN:OE1	3:D:486:SER:CB	2.53	0.55
3:D:808:VAL:CG1	3:D:809:VAL:N	2.69	0.55
1:B:57:THR:HG21	1:B:147:GLN:HE22	1.71	0.55
1:B:175:ALA:HB1	1:B:177:TYR:CE2	2.41	0.55
1:B:175:ALA:HB3	1:B:177:TYR:CE2	2.42	0.55
5:F:262:VAL:CG1	5:F:264:LYS:HE3	2.36	0.55
1:G:189:ALA:HA	1:G:199:ASP:HB3	1.89	0.55
2:O:716:ALA:HB3	2:O:784:ALA:HB3	1.88	0.55
3:P:1096:PRO:O	3:P:1098:GLN:N	2.39	0.55
1:M:104:LYS:HD2	1:M:105:SER:H	1.72	0.55
1:B:37:HIS:CE1	2:C:1216:ARG:HD2	2.42	0.55
3:D:112:ALA:HA	3:D:238:ILE:HD11	0.73	0.55
2:C:448:LEU:HB2	2:C:608:ALA:HB2	1.89	0.55
3:P:363:LEU:HD21	3:P:487:THR:HA	1.89	0.55
2:I:661:VAL:CG1	2:I:665:ALA:CB	2.85	0.55
2:O:1292:THR:HG23	2:O:1293:VAL:N	2.20	0.55
3:J:270:ARG:HA	3:J:273:ILE:HD12	1.89	0.55
2:O:375:PRO:HA	5:R:87:VAL:CG2	2.35	0.55
2:O:689:ALA:CB	2:O:1233:LEU:HD13	2.37	0.55
2:C:90:VAL:HG12	2:C:91:THR:N	2.20	0.55
2:C:1334:GLY:O	3:D:25:ALA:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1046:ILE:HG22	3:D:1061:VAL:HA	1.89	0.55
3:D:826:ILE:HG12	3:D:831:VAL:HG13	1.89	0.55
1:B:70:THR:O	1:B:70:THR:CG2	2.55	0.55
2:I:1064:ASP:CG	2:I:1238:LEU:HD22	2.27	0.55
3:P:1327:GLU:O	3:P:1331:VAL:HG23	2.07	0.55
6:4:46:DG:C5'	6:4:46:DG:H8	2.19	0.55
3:P:39:LYS:HG2	3:P:40:LYS:HE3	1.89	0.55
3:D:378:LYS:HG2	3:D:382:TYR:CE2	2.42	0.55
3:D:182:ALA:O	3:D:185:ILE:HD13	2.07	0.55
1:B:61:ILE:HD12	1:B:171:LEU:HD11	1.89	0.55
3:D:1347:LEU:O	3:D:1351:VAL:HG23	2.06	0.55
3:D:363:LEU:HD21	3:D:487:THR:HG22	1.88	0.55
1:N:41:ASN:ND2	1:N:42:ALA:N	2.54	0.55
1:G:48:LEU:CD2	1:G:183:ILE:HG22	2.36	0.55
2:C:255:ILE:CG1	2:C:285:ILE:HG21	2.36	0.55
2:O:369:MET:HG3	2:O:370:MET:H	1.71	0.55
3:D:1148:ARG:CZ	6:1:54:DA:H4'	2.37	0.55
2:O:960:LEU:HD22	2:O:1025:PHE:CD1	2.42	0.55
7:8:22:DA:H2''	7:8:23:DT:OP1	2.07	0.55
5:F:119:ILE:N	5:F:119:ILE:HD12	2.22	0.55
5:L:599:ARG:O	5:L:601:PRO:CD	2.55	0.55
6:4:28:DA:N6	7:5:34:DG:C6	2.75	0.55
3:J:539:SER:HB2	3:J:541:LEU:HG	1.88	0.55
3:D:999:TYR:HB3	3:D:1025:MET:CE	2.37	0.55
3:D:702:GLN:HG3	3:D:723:TYR:CE1	2.41	0.55
1:N:16:ILE:HG23	1:N:26:VAL:HG13	1.88	0.55
2:C:897:PRO:HB3	5:F:563:PHE:O	2.06	0.55
3:D:227:PHE:HZ	3:D:234:PRO:HA	1.72	0.54
3:D:341:ASN:O	3:D:345:LYS:HE2	2.07	0.54
6:7:50:DT:H5'	6:7:51:DC:C6	2.42	0.54
1:M:26:VAL:HG21	1:M:217:ILE:HD11	1.89	0.54
3:J:797:THR:HG21	3:J:924:GLY:HA3	1.88	0.54
3:P:584:PRO:CD	3:P:620:PHE:CD1	2.89	0.54
3:P:268:LEU:HD21	3:P:324:LEU:HD12	1.89	0.54
2:O:994:ARG:NH1	2:O:997:TRP:CH2	2.74	0.54
2:O:165:HIS:CB	2:O:168:GLY:H	2.20	0.54
2:O:665:ALA:HA	2:O:668:ILE:HD12	1.87	0.54
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.87	0.54
5:F:137:TYR:CE1	5:F:353:LEU:CD1	2.57	0.54
3:J:139:LEU:HD22	3:J:185:ILE:CD1	2.36	0.54
3:P:1138:LEU:HD23	3:P:1139:PRO:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1257:GLN:CG	2:C:1296:ASP:OD1	2.47	0.54
3:D:337:ARG:NH1	3:D:341:ASN:HD21	2.06	0.54
3:D:133:ARG:HA	3:D:136:GLU:HG3	1.90	0.54
2:C:673:HIS:O	3:D:763:PHE:HD1	1.89	0.54
3:P:464:ASP:CG	8:9:15:G:O2'	2.45	0.54
7:5:29:DC:H2''	7:5:30:DA:C8	2.42	0.54
3:J:69:GLU:CG	3:J:70:CYS:O	2.55	0.54
2:I:1112:ILE:O	2:I:1115:THR:HB	2.07	0.54
3:D:1301:THR:HG23	3:D:1302:TYR:N	2.23	0.54
1:A:86:LYS:CE	1:A:173:VAL:HG12	2.37	0.54
6:7:58:DG:C2'	6:7:59:DG:OP2	2.55	0.54
3:J:1106:ILE:CD1	3:J:1125:PRO:HG2	2.37	0.54
3:J:1177:ILE:HD12	3:J:1186:TYR:HB2	1.87	0.54
2:C:407:ARG:CZ	2:C:407:ARG:HB2	2.36	0.54
2:I:36:GLN:CD	2:I:36:GLN:C	2.65	0.54
5:L:124:GLU:OE2	5:L:421:TYR:CE1	2.59	0.54
2:I:468:LEU:O	2:I:471:VAL:HB	2.06	0.54
1:B:92:VAL:HG12	1:B:93:GLN:N	2.22	0.54
2:O:1131:MET:HB2	2:O:1141:LEU:HD21	1.88	0.54
5:F:450:ILE:CD1	5:F:450:ILE:N	2.53	0.54
2:I:429:MET:O	2:I:433:ILE:HG13	2.08	0.54
3:D:783:LEU:HD13	3:D:783:LEU:N	2.22	0.54
3:D:786:THR:CG2	3:D:787:ALA:H	2.19	0.54
2:I:827:ARG:O	2:I:828:PHE:HB2	2.08	0.54
3:J:828:GLY:HA2	3:J:996:LYS:HB2	1.90	0.54
2:O:805:MET:CA	2:O:1100:PRO:HD3	2.38	0.54
2:I:722:GLY:HA2	2:I:737:ASN:CG	2.26	0.54
2:O:1077:SER:HB2	3:P:357:VAL:HG23	1.88	0.54
2:I:298:ALA:CB	2:I:334:GLU:O	2.55	0.54
5:R:391:ALA:O	5:R:395:THR:HG23	2.08	0.54
2:O:163:LYS:CG	2:O:164:THR:N	2.62	0.54
2:I:404:LYS:HZ1	2:I:450:ASN:HA	1.72	0.54
2:I:886:LYS:HD3	2:I:916:SER:HB2	1.87	0.54
2:I:933:VAL:HG22	2:I:1050:VAL:HG13	1.89	0.54
6:4:53:DG:H1'	6:4:54:DA:C5'	2.38	0.54
5:L:266:PHE:O	5:L:270:VAL:HG23	2.07	0.54
3:J:1302:TYR:CD2	3:J:1302:TYR:C	2.81	0.54
5:L:604:SER:OG	5:L:607:LEU:HD12	2.07	0.54
3:J:1033:GLY:HA3	3:J:1081:VAL:O	2.07	0.54
2:C:1122:LYS:HG3	2:C:1229:TYR:CZ	2.42	0.54
2:C:1043:ALA:HB3	2:C:1046:VAL:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1038:THR:OG1	3:P:1077:ALA:HB3	2.07	0.54
3:J:22:ILE:HD11	3:J:1319:PHE:CE1	2.42	0.54
2:C:702:THR:OG1	2:C:704:MET:HB2	2.08	0.54
3:D:227:PHE:CE1	3:D:232:ASN:O	2.61	0.54
2:O:1245:ALA:HB2	3:P:372:MET:HG3	1.89	0.54
2:C:1270:PHE:CB	3:D:347:VAL:CG2	2.82	0.54
1:A:38:THR:HG22	1:B:42:ALA:CA	2.29	0.54
3:P:501:VAL:CG1	3:P:502:PRO:CD	2.85	0.54
3:P:261:ALA:HB1	5:R:519:LEU:HD23	1.89	0.54
2:I:725:GLN:NE2	2:I:735:LYS:CE	2.69	0.54
2:O:162:GLY:O	2:O:163:LYS:CB	2.56	0.54
2:C:163:LYS:HD3	2:C:164:THR:HG22	1.89	0.54
2:C:82:VAL:HG23	2:C:83:GLN:H	1.72	0.54
3:J:1080:ILE:CD1	3:J:1115:ILE:HD11	2.38	0.54
2:C:1061:GLN:CB	2:C:1062:PRO:HD2	2.36	0.54
2:I:988:LYS:HZ3	2:I:992:LEU:CD1	2.21	0.54
3:D:632:ALA:O	3:D:635:SER:OG	2.23	0.54
3:D:264:ASP:HA	3:D:267:ASP:OD2	2.08	0.54
3:J:330:MET:CE	3:J:337:ARG:HH22	2.21	0.54
1:B:85:LEU:HD23	1:B:85:LEU:N	2.22	0.54
5:L:279:ARG:O	5:L:283:GLN:HG2	2.07	0.54
3:J:450:HIS:CD2	3:J:452:LEU:H	2.26	0.54
2:I:467:GLY:O	2:I:471:VAL:HG23	2.08	0.54
2:C:890:LYS:HE2	2:C:893:THR:OG1	2.08	0.54
2:O:1172:LEU:O	2:O:1176:LEU:HG	2.08	0.54
3:J:28:ASP:HA	3:J:31:ARG:HD2	1.89	0.54
2:C:1111:GLN:O	2:C:1115:THR:OG1	2.25	0.54
1:A:41:ASN:HD21	2:C:1217:THR:C	2.10	0.54
3:J:918:ILE:HG23	3:J:919:ALA:N	2.21	0.54
3:D:162:GLU:CB	3:D:163:GLU:OE1	2.55	0.54
3:D:1253:ILE:HG23	3:D:1256:ILE:HD12	1.88	0.54
2:O:211:ARG:CD	2:O:357:ASN:O	2.43	0.54
3:D:132:LEU:HA	3:D:135:ILE:HD12	1.89	0.54
3:D:619:ILE:CG2	3:D:620:PHE:N	2.52	0.54
2:C:149:LEU:HD23	2:C:532:ALA:HB2	1.88	0.54
3:D:269:TYR:O	3:D:272:VAL:HB	2.07	0.54
3:J:105:ILE:HD12	3:J:244:VAL:CG2	2.37	0.54
2:I:1269:ARG:CG	3:J:345:LYS:C	2.73	0.54
2:O:1120:ALA:HB1	2:O:1198:LEU:CG	2.30	0.54
2:O:530:ILE:CD1	2:O:558:VAL:HG22	2.38	0.54
2:I:805:MET:HE1	3:J:633:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:146:VAL:HG11	3:D:155:GLU:O	2.07	0.54
2:I:448:LEU:HD11	2:I:553:THR:C	2.28	0.54
3:J:1027:VAL:O	3:J:1121:LEU:HB2	2.07	0.54
2:O:668:ILE:CG1	2:O:686:GLN:HE22	2.21	0.54
4:K:70:GLN:HA	4:K:73:GLN:NE2	2.23	0.54
6:1:46:DG:H5"	6:1:46:DG:C8	2.42	0.54
2:O:951:MET:O	2:O:955:GLN:HG2	2.07	0.54
4:K:80:LEU:HD23	4:K:83:VAL:HB	1.89	0.54
3:J:974:VAL:HG11	3:J:1028:ILE:HG21	1.90	0.54
2:O:656:SER:O	2:O:659:GLN:HG2	2.07	0.54
1:B:214:GLU:O	1:B:217:ILE:HB	2.07	0.54
3:D:478:LEU:HB3	4:E:20:VAL:CG2	2.37	0.54
3:P:421:VAL:HG13	3:P:470:VAL:HA	1.88	0.54
2:O:1301:ARG:HG3	5:R:531:PRO:HG3	1.89	0.54
2:O:437:ASN:OD1	2:O:437:ASN:N	2.40	0.54
2:I:559:CYS:HB2	2:I:662:SER:N	2.23	0.54
2:O:211:ARG:NH1	2:O:357:ASN:O	2.39	0.54
3:J:291:ILE:HG23	5:L:409:ASN:ND2	2.22	0.54
2:C:807:TRP:CG	2:C:817:LEU:HD11	2.41	0.54
1:A:140:ILE:CG1	1:A:141:SER:N	2.70	0.54
3:D:665:GLN:O	3:D:668:PHE:CB	2.55	0.54
2:I:761:GLN:O	2:I:762:ASN:CB	2.55	0.54
1:G:24:ALA:CB	1:G:213:PRO:CB	2.85	0.54
2:C:531:SER:HB2	2:C:572:ILE:HG12	1.90	0.54
3:J:600:ALA:O	3:J:604:MET:HG3	2.07	0.54
2:C:228:VAL:HG22	2:C:245:ARG:NH1	2.23	0.54
2:C:890:LYS:HB3	2:C:912:ASP:C	2.28	0.54
3:D:96:LYS:O	3:D:99:ARG:HB3	2.07	0.54
1:M:77:ASP:OD2	2:O:756:TYR:OH	2.21	0.54
2:C:937:ASP:HB2	2:C:1039:GLY:HA3	1.90	0.54
5:R:555:GLU:O	5:R:559:LEU:HG	2.08	0.54
3:D:759:ILE:CD1	3:D:771:GLN:HB3	2.37	0.54
5:F:572:THR:HB	7:2:45:DG:OP1	2.08	0.54
2:C:667:LEU:CD2	2:C:704:MET:HB3	2.38	0.54
2:C:557:ARG:NH2	2:C:611:GLU:OE1	2.41	0.54
2:C:1281:TYR:CD1	3:D:431:ARG:HD2	2.42	0.54
3:D:132:LEU:O	3:D:136:GLU:HG3	2.07	0.54
1:G:31:LEU:HD11	1:G:201:LEU:HB2	1.90	0.54
1:H:33:ARG:O	1:H:33:ARG:HG3	2.07	0.54
3:P:579:LEU:O	3:P:583:VAL:HG23	2.08	0.54
3:P:325:LYS:HG3	3:P:329:ASP:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:395:THR:HA	5:R:404:LEU:CD1	2.38	0.54
2:O:1184:THR:OG1	2:O:1189:GLY:HA3	2.07	0.54
2:C:898:GLU:N	2:C:898:GLU:OE1	2.34	0.54
2:I:1111:GLN:HB2	2:I:1230:MET:HE1	1.89	0.54
6:1:48:DA:H3'	6:1:49:DG:H5''	1.90	0.54
3:J:972:LYS:HB3	3:J:1002:VAL:HG13	1.90	0.54
2:I:150:HIS:CE1	2:I:454:ARG:HG3	2.42	0.54
2:O:1257:GLN:OE1	3:P:346:ARG:HG3	2.07	0.54
2:O:671:LEU:HD22	2:O:1186:VAL:CG1	2.37	0.54
3:D:1219:ASP:OD1	3:D:1219:ASP:N	2.41	0.54
3:D:289:ASP:O	3:D:293:ARG:HG3	2.08	0.54
1:H:59:VAL:HG21	1:H:85:LEU:CD1	2.37	0.54
1:H:81:ILE:HG21	1:H:131:CYS:SG	2.48	0.54
3:P:363:LEU:HA	3:P:450:HIS:CE1	2.43	0.54
3:D:963:VAL:HG23	3:D:980:THR:OG1	2.08	0.54
4:E:5:THR:HG22	4:E:7:GLN:H	1.73	0.54
1:M:230:ALA:CB	1:N:11:PRO:HG2	2.38	0.54
3:P:650:LYS:HG3	3:P:743:MET:HE1	1.90	0.54
1:N:102:LEU:CD1	1:N:114:ASP:CB	2.82	0.54
2:I:592:ARG:NH2	2:I:599:VAL:HG12	2.22	0.54
2:I:725:GLN:CD	2:I:735:LYS:HE2	2.27	0.54
3:D:40:LYS:HZ2	3:D:53:ARG:HH21	1.55	0.54
2:O:1109:ILE:HD13	2:O:1109:ILE:N	2.23	0.54
2:C:851:THR:HG22	2:C:852:ALA:H	1.73	0.54
5:R:503:GLU:HB3	5:R:504:PRO:HD2	1.88	0.54
3:P:205:LEU:HD11	3:P:217:LEU:CB	2.38	0.54
3:P:1005:LYS:HD2	3:P:1011:VAL:CG1	2.37	0.54
2:O:771:VAL:HG22	2:O:783:LEU:HD22	1.89	0.54
2:O:801:ARG:HG2	2:O:1229:TYR:CZ	2.43	0.54
2:C:1012:GLU:HA	2:C:1015:ALA:HB3	1.90	0.54
3:P:786:THR:HG22	3:P:787:ALA:N	2.21	0.54
3:J:223:LEU:O	3:J:227:PHE:HB2	2.08	0.54
3:D:1251:LYS:O	3:D:1255:VAL:HG23	2.08	0.54
5:L:509:THR:HG23	7:5:22:DA:N6	2.23	0.54
3:P:697:MET:CE	3:P:737:ILE:HG23	2.37	0.54
2:O:809:GLY:O	3:P:357:VAL:HG11	2.08	0.54
6:4:33:DT:H2''	6:4:34:DG:C8	2.43	0.54
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.43	0.54
2:C:851:THR:CG2	2:C:852:ALA:H	2.21	0.54
2:I:578:TYR:CE2	2:I:656:SER:OG	2.61	0.54
3:D:201:LEU:CB	3:D:221:ILE:HD11	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:335:THR:CG2	2:C:336:LEU:N	2.70	0.54
3:J:169:LEU:HD12	3:J:173:GLY:HA2	1.89	0.54
2:C:615:VAL:HA	2:C:638:SER:HB2	1.90	0.54
2:C:275:ARG:NH1	2:C:279:LYS:HB2	2.23	0.54
3:J:1061:VAL:O	3:J:1104:LYS:N	2.40	0.54
2:C:521:LEU:HD21	2:C:686:GLN:HB3	1.89	0.54
1:A:221:ALA:HB1	1:B:228:LEU:HD22	1.90	0.54
1:A:208:ASN:H	1:A:208:ASN:HD22	1.55	0.54
2:C:828:PHE:O	2:C:1234:LYS:NZ	2.36	0.54
2:C:1272:GLU:HB3	2:C:1276:TRP:CZ2	2.43	0.54
3:J:805:GLN:CB	3:J:1347:LEU:CD1	2.68	0.54
1:M:38:THR:HG21	1:N:46:ILE:CD1	2.38	0.54
3:D:842:ARG:HH12	3:D:1254:GLU:CD	2.09	0.54
5:R:457:ILE:HD13	5:R:460:ILE:HD12	1.90	0.54
5:L:431:ALA:O	5:L:435:ILE:HG13	2.08	0.54
2:O:453:ILE:N	2:O:453:ILE:HD13	2.23	0.54
3:P:650:LYS:HE3	3:P:743:MET:HE2	1.89	0.54
2:I:1258:PRO:HG2	3:J:346:ARG:CB	2.38	0.54
5:F:428:SER:HB2	6:I:40:DA:OP2	2.08	0.54
5:R:117:ILE:HG23	5:R:421:TYR:CB	2.36	0.54
4:E:61:ASN:HA	4:E:64:LEU:HD12	1.90	0.54
2:C:83:GLN:O	2:C:87:ILE:HG13	2.08	0.54
5:R:441:ARG:HG2	5:R:442:SER:N	2.23	0.54
3:D:334:LYS:O	3:D:339:ARG:HB2	2.07	0.54
5:R:503:GLU:CG	5:R:504:PRO:HD2	2.37	0.54
2:C:530:ILE:HD11	2:C:575:LEU:H	1.73	0.54
5:L:507:MET:O	5:L:519:LEU:HB3	2.08	0.54
5:R:564:GLY:HA2	5:R:567:MET:HB2	1.88	0.54
3:J:24:LEU:CD2	3:J:116:PHE:CZ	2.91	0.53
3:D:425:ARG:NH2	3:D:464:ASP:OD2	2.41	0.53
3:D:1145:PHE:CE1	3:D:1256:ILE:HD13	2.43	0.53
3:P:799:ARG:O	3:P:803:VAL:HG23	2.06	0.53
2:C:13:LYS:HZ1	2:C:1151:LEU:H	1.55	0.53
2:I:184:LEU:HD11	2:I:389:PHE:CE2	2.43	0.53
1:M:100:LEU:HD22	1:M:115:ILE:HG22	1.84	0.53
3:J:1342:ASP:OD1	3:J:1344:LEU:HG	2.07	0.53
2:I:1020:GLU:O	2:I:1024:GLU:N	2.35	0.53
1:N:179:PRO:HB3	1:N:208:ASN:HD22	1.73	0.53
2:C:1161:LEU:O	2:C:1163:THR:N	2.41	0.53
2:I:36:GLN:NE2	2:I:36:GLN:O	2.41	0.53
3:P:960:LEU:HD23	3:P:982:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:955:LYS:HG3	3:J:1012:ALA:HA	1.88	0.53
3:J:1132:LYS:O	3:J:1133:ASP:HB2	2.08	0.53
1:M:48:LEU:CD2	1:M:180:VAL:HB	2.30	0.53
1:M:47:LEU:O	1:M:51:MET:HB2	2.07	0.53
3:D:379:PRO:HG2	3:D:380:PHE:N	2.22	0.53
3:D:111:THR:HG23	3:D:112:ALA:N	2.23	0.53
3:J:294:ASN:ND2	5:L:101:TYR:CD1	2.76	0.53
5:L:463:LEU:HD23	5:L:487:MET:SD	2.48	0.53
1:G:9:LEU:HD23	1:G:32:GLU:CG	2.39	0.53
5:R:461:ASN:HA	7:8:26:DT:C7	2.39	0.53
1:H:86:LYS:CE	1:H:173:VAL:HG12	2.38	0.53
1:M:11:PRO:O	1:N:231:PHE:CE1	2.60	0.53
2:I:178:PRO:HG3	2:I:395:TYR:OH	2.08	0.53
2:C:259:GLY:HA3	2:I:120:GLN:HB2	1.89	0.53
3:J:806:ASP:OD1	3:J:1346:GLY:HA2	2.08	0.53
1:B:190:ALA:N	1:B:199:ASP:HA	2.20	0.53
2:O:564:PRO:CB	8:9:13:GTP:PA	2.96	0.53
3:J:479:GLU:O	3:J:484:MET:HG3	2.08	0.53
3:J:491:LEU:HD23	3:J:498:PRO:CA	2.38	0.53
1:N:156:SER:HA	1:N:159:ILE:HG22	1.90	0.53
2:C:1088:ASP:OD1	2:C:1088:ASP:N	2.38	0.53
3:P:205:LEU:HD11	3:P:217:LEU:HB2	1.90	0.53
2:C:1111:GLN:O	2:C:1230:MET:CE	2.56	0.53
2:C:58:PRO:HG3	2:C:69:GLN:HG2	1.90	0.53
2:O:1282:GLY:O	3:P:1361:THR:OG1	2.23	0.53
2:C:1330:ILE:CD1	2:C:1337:ILE:CD1	2.85	0.53
3:J:42:GLU:OE1	5:L:451:ARG:HG2	2.07	0.53
3:J:481:ARG:O	4:K:6:VAL:HG21	2.07	0.53
3:D:886:VAL:CG1	3:D:1258:ARG:HG3	2.29	0.53
7:8:11:DA:H2'	7:8:12:DG:C8	2.43	0.53
1:M:102:LEU:HD13	1:M:115:ILE:HG12	1.91	0.53
3:D:263:SER:N	5:F:507:MET:HE3	2.24	0.53
2:I:1284:ALA:O	2:I:1287:LEU:HB3	2.08	0.53
3:J:584:PRO:CD	3:J:620:PHE:CZ	2.91	0.53
3:J:1217:PRO:HG2	3:J:1218:HIS:H	1.73	0.53
2:C:859:GLU:HA	2:C:862:LEU:HD12	1.89	0.53
2:O:285:ILE:CG2	2:O:286:GLU:N	2.71	0.53
7:5:19:DA:H3'	7:5:19:DA:C8	2.43	0.53
3:J:672:LEU:C	3:J:673:VAL:CG2	2.77	0.53
3:D:417:ARG:HG2	3:D:418:GLU:HG2	1.90	0.53
5:F:310:GLU:OE1	5:F:355:ILE:HD13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:38:PHE:HE1	2:C:461:GLU:HA	1.74	0.53
2:O:500:ALA:O	2:O:504:GLU:HG2	2.08	0.53
2:O:501:ALA:O	2:O:504:GLU:HB2	2.08	0.53
2:I:508:SER:OG	7:5:21:DG:N2	2.41	0.53
3:J:327:LEU:O	3:J:331:ILE:HG12	2.09	0.53
3:P:423:LEU:HD12	3:P:437:PHE:CE1	2.43	0.53
2:O:896:THR:HG22	2:O:899:GLU:OE1	2.09	0.53
2:O:185:ASP:CG	2:O:200:ARG:HE	2.11	0.53
6:7:52:DT:C2	6:7:53:DG:C6	2.97	0.53
3:D:783:LEU:HD13	3:D:783:LEU:H	1.74	0.53
3:P:632:ALA:O	3:P:635:SER:OG	2.25	0.53
5:L:413:MET:O	5:L:417:ASP:CG	2.47	0.53
5:R:507:MET:O	5:R:519:LEU:HB3	2.08	0.53
2:O:1056:VAL:HG12	2:O:1058:ARG:HG3	1.89	0.53
3:P:1190:ILE:HD13	3:P:1196:LEU:HD21	1.89	0.53
3:D:1037:PHE:HE2	3:D:1059:LEU:HD13	1.73	0.53
2:I:897:PRO:HB3	5:L:563:PHE:O	2.09	0.53
3:D:825:VAL:HB	3:D:1242:ARG:HH12	1.73	0.53
3:D:1005:LYS:HD3	3:D:1009:GLU:OE1	2.08	0.53
3:J:1220:ILE:HG23	3:J:1224:ARG:HD2	1.90	0.53
3:J:115:TRP:CZ3	3:J:1329:THR:O	2.62	0.53
3:J:338:PHE:HE2	3:J:1328:THR:HG21	1.73	0.53
3:J:332:LYS:HE3	3:J:1328:THR:H	1.72	0.53
3:D:128:LEU:HD11	3:D:189:LEU:HD21	1.91	0.53
5:L:105:MET:HB3	5:L:384:LEU:HD13	1.91	0.53
1:M:102:LEU:CD2	1:M:130:ILE:CD1	2.84	0.53
2:O:451:ARG:HH12	2:O:538:LEU:HD11	1.74	0.53
3:P:1221:LEU:HD11	3:P:1304:ARG:C	2.28	0.53
2:C:944:ARG:HG3	2:C:948:ILE:HD11	1.91	0.53
2:C:297:VAL:HG22	2:C:315:MET:H	1.73	0.53
2:O:558:VAL:CG1	2:O:573:ASN:HB3	2.37	0.53
3:D:1307:LEU:CD1	3:D:1312:ALA:HA	2.39	0.53
3:P:1313:SER:O	3:P:1316:THR:HG23	2.09	0.53
2:C:56:VAL:O	2:C:59:ILE:HG12	2.08	0.53
5:R:370:ALA:HA	5:R:373:ARG:CZ	2.37	0.53
3:P:1275:LEU:O	3:P:1278:GLU:HG2	2.09	0.53
5:F:381:GLU:O	5:F:384:LEU:HG	2.08	0.53
3:D:1040:MET:CE	3:D:1046:ILE:HG21	2.37	0.53
3:J:1100:PHE:CD2	3:J:1100:PHE:N	2.77	0.53
2:I:756:TYR:CD2	2:I:756:TYR:N	2.74	0.53
2:I:1085:MET:CE	2:I:1085:MET:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:69:GLN:HB2	2:I:101:ARG:HB2	1.91	0.53
2:C:196:VAL:HG23	2:C:206:ALA:CA	2.38	0.53
3:P:449:LEU:HD12	3:P:450:HIS:N	2.22	0.53
2:O:1268:GLN:HE22	3:P:351:GLY:HA2	1.73	0.53
3:P:797:THR:O	3:P:801:VAL:HG23	2.07	0.53
2:O:1286:THR:O	2:O:1289:GLU:HB2	2.09	0.53
5:F:92:GLY:C	5:F:93:ARG:HG3	2.27	0.53
1:H:83:LEU:HD21	3:J:526:VAL:HB	1.91	0.53
3:D:1263:LYS:CG	3:D:1281:GLU:HA	2.29	0.53
3:J:840:LEU:HD21	3:J:866:GLU:HG3	1.90	0.53
2:I:1304:MET:CE	2:I:1308:ILE:HD11	2.38	0.53
3:P:245:LEU:HD21	3:P:249:LEU:HB2	1.91	0.53
2:C:807:TRP:CG	2:C:817:LEU:CD1	2.91	0.53
2:O:1109:ILE:HD11	3:P:740:LEU:HD22	1.90	0.53
5:R:451:ARG:NH1	6:7:32:DA:OP2	2.42	0.53
2:O:73:TYR:HB2	2:O:96:LEU:HD11	1.90	0.53
2:C:806:PRO:HG2	3:D:632:ALA:O	2.09	0.53
2:O:708:VAL:HG11	2:O:794:LEU:HD22	1.89	0.53
1:G:88:LEU:HD12	1:G:89:ALA:H	1.74	0.53
3:D:830:ASP:HB3	3:D:832:LYS:HD3	1.90	0.53
2:I:73:TYR:HB3	2:I:98:VAL:HG22	1.89	0.53
1:M:35:PHE:HE2	1:N:50:SER:OG	1.91	0.53
3:J:918:ILE:O	3:J:922:SER:OG	2.23	0.53
2:O:283:LYS:O	2:O:284:LEU:HG	2.08	0.53
2:C:533:LEU:HD11	2:C:571:LEU:HD13	1.90	0.53
2:O:1099:ASN:HD21	3:P:504:GLN:HE21	1.55	0.53
3:D:615:LYS:N	3:D:616:PRO:HD2	2.24	0.53
1:G:49:SER:HB2	1:H:33:ARG:NH2	2.23	0.53
3:J:244:VAL:HG13	3:J:269:TYR:CE1	2.43	0.53
3:J:424:ASN:N	3:J:466:MET:HE1	2.23	0.53
3:D:245:LEU:HD21	3:D:249:LEU:HB2	1.90	0.53
3:D:94:GLN:O	3:D:97:VAL:HG23	2.07	0.53
5:R:584:ARG:HB2	5:R:584:ARG:CZ	2.35	0.53
3:P:746:LEU:HD22	3:P:755:ILE:O	2.09	0.53
5:L:491:GLU:HA	5:L:494:ILE:HD13	1.89	0.53
1:A:68:TYR:HE2	2:C:927:THR:HB	1.74	0.53
2:C:1161:LEU:HD12	2:C:1164:PHE:HB2	1.89	0.53
5:F:489:MET:HB3	5:F:490:PRO:CD	2.37	0.53
5:R:401:PHE:HB2	5:R:402:LEU:HD23	1.89	0.53
2:C:530:ILE:HD12	2:C:573:ASN:O	2.08	0.53
2:C:15:PHE:HA	2:C:1155:VAL:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1048:ARG:NE	3:D:1050:THR:OG1	2.41	0.53
2:C:972:PHE:HE2	2:C:994:ARG:O	1.92	0.53
2:C:1186:VAL:HG12	2:C:1187:PHE:CE2	2.44	0.53
3:P:355:ILE:HG13	3:P:355:ILE:O	2.09	0.53
2:O:1111:GLN:O	2:O:1115:THR:OG1	2.26	0.53
2:I:1192:GLU:HA	2:I:1195:ILE:HD12	1.90	0.53
1:A:58:GLU:HB2	1:A:145:LYS:HB3	1.90	0.53
5:R:290:LEU:O	5:R:294:GLN:HB3	2.08	0.53
1:M:48:LEU:HG	1:M:183:ILE:CG2	2.39	0.53
1:A:232:VAL:CG2	1:B:221:ALA:HB1	2.35	0.53
2:C:1278:LEU:HD22	2:C:1286:THR:OG1	2.09	0.53
2:I:165:HIS:HB2	2:I:168:GLY:H	1.72	0.53
3:P:584:PRO:HD3	3:P:620:PHE:CD1	2.44	0.53
3:J:268:LEU:HD21	3:J:324:LEU:HD12	1.91	0.53
2:O:1232:MET:HE2	2:O:1232:MET:HA	1.91	0.53
1:M:61:ILE:HG13	1:M:142:MET:HB2	1.91	0.53
2:I:812:PHE:CE1	3:J:504:GLN:HB3	2.44	0.53
5:L:490:PRO:C	5:L:494:ILE:HD13	2.29	0.53
2:O:514:PHE:CE2	7:8:19:DA:N3	2.76	0.53
5:L:520:GLY:HA2	5:L:523:ILE:CD1	2.39	0.53
6:4:59:DG:H2"	6:4:60:DC:C6	2.44	0.53
3:D:518:VAL:O	3:D:520:ALA:N	2.42	0.53
3:D:664:ILE:HG21	3:D:681:LYS:HD3	1.90	0.53
3:D:1285:VAL:HG13	3:D:1286:LYS:HG3	1.91	0.53
3:D:394:ILE:HD11	5:F:539:SER:HB2	1.91	0.53
3:P:363:LEU:CG	3:P:487:THR:HG22	2.39	0.53
2:C:1283:ALA:HB1	3:D:479:GLU:CD	2.29	0.53
2:C:1323:PHE:HD2	3:D:1352:ILE:O	1.91	0.53
2:O:1268:GLN:OE1	3:P:350:SER:HB2	2.09	0.53
5:L:453:PRO:HB2	5:L:455:HIS:CD2	2.44	0.53
5:L:102:MET:HE2	6:4:42:DG:C4	2.38	0.53
3:J:30:ILE:HD13	3:J:243:PRO:HD3	1.90	0.53
3:P:1353:VAL:CG2	3:P:1355:ARG:CD	2.84	0.53
2:O:1223:ARG:HH11	3:P:637:ALA:HA	1.74	0.53
1:H:155:ALA:H	1:H:174:ASP:CG	2.12	0.53
3:J:930:LEU:C	3:J:1134:ILE:HG13	2.30	0.53
3:D:242:LEU:HD12	3:D:243:PRO:HD2	1.90	0.53
3:J:34:SER:HG	3:J:104:HIS:CG	2.23	0.53
3:J:1344:LEU:HA	3:J:1349:GLU:OE1	2.08	0.53
3:J:1165:PHE:HA	3:J:1175:LEU:CD1	2.38	0.53
3:D:70:CYS:CB	3:D:90:VAL:HG11	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1280:VAL:CG1	3:J:1281:GLU:N	2.71	0.53
2:I:1072:ASN:ND2	2:I:1111:GLN:CD	2.62	0.53
5:L:96:ASP:HB3	5:L:99:ARG:HG2	1.90	0.53
3:J:1153:PRO:HA	3:J:1214:PRO:HG2	1.90	0.53
1:M:31:LEU:CD1	1:M:39:LEU:CD1	2.87	0.53
4:E:39:VAL:HG13	4:E:40:PRO:HG2	1.89	0.53
2:I:669:PRO:HB2	2:I:670:PHE:CD2	2.44	0.53
2:I:120:GLN:CG	2:I:489:PRO:HG2	2.38	0.53
3:J:1317:GLU:O	3:J:1318:SER:CB	2.55	0.53
3:D:909:ILE:HD11	3:D:913:GLU:HB3	1.90	0.53
2:O:82:VAL:CG2	2:O:83:GLN:N	2.72	0.53
3:D:734:ALA:O	3:D:737:ILE:HB	2.09	0.53
3:P:674:THR:OG1	3:P:677:GLU:HG3	2.08	0.53
3:P:805:GLN:HB2	3:P:1347:LEU:CG	2.39	0.53
2:C:82:VAL:HG23	2:C:83:GLN:HG3	1.91	0.53
3:D:872:LEU:CD2	3:D:875:ASN:HD22	2.21	0.53
2:I:161:LYS:C	2:I:161:LYS:HE2	2.29	0.53
1:H:75:GLN:HG2	1:H:134:THR:HG23	1.91	0.53
2:O:678:ARG:NE	2:O:1106:ARG:HB3	2.24	0.53
1:G:211:ILE:HG23	1:G:219:ARG:NH1	2.24	0.53
3:P:1054:THR:OG1	3:P:1056:LEU:HG	2.09	0.53
3:D:964:LYS:HB2	3:D:977:SER:HB3	1.90	0.53
2:C:151:ARG:NH1	2:C:445:ILE:CG2	2.71	0.53
3:D:395:LYS:C	3:D:398:LYS:CG	2.74	0.52
2:C:433:ILE:O	2:C:437:ASN:OD1	2.27	0.52
2:I:210:LEU:HB3	2:I:220:ILE:HD11	1.86	0.52
2:C:1065:LYS:O	2:C:1235:LEU:HG	2.08	0.52
7:8:24:DT:OP1	7:8:24:DT:H4'	2.07	0.52
3:P:1233:ILE:HD13	3:P:1257:VAL:CG2	2.39	0.52
2:O:1112:ILE:HD11	3:P:639:VAL:O	2.07	0.52
1:G:16:ILE:HG23	1:G:26:VAL:HG13	1.90	0.52
3:J:398:LYS:HE2	5:L:532:LEU:CD2	2.38	0.52
3:J:105:ILE:CG1	3:J:244:VAL:HG21	2.38	0.52
2:C:944:ARG:HG3	2:C:948:ILE:CD1	2.39	0.52
6:4:45:DT:C3'	6:4:45:DT:C6	2.91	0.52
5:R:543:ALA:O	5:R:547:VAL:HG23	2.09	0.52
2:C:144:VAL:CG2	2:C:515:MET:HB2	2.36	0.52
2:C:178:PRO:HA	2:C:397:LEU:HD23	1.91	0.52
1:M:184:ALA:HB2	2:O:1091:GLY:HA3	1.91	0.52
5:F:262:VAL:HG12	5:F:263:PRO:HD2	1.91	0.52
2:C:897:PRO:HB2	5:F:565:ILE:CG1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:228:VAL:HG12	3:D:228:VAL:O	2.08	0.52
2:O:1256:GLN:OE1	2:O:1256:GLN:HA	2.09	0.52
1:G:98:VAL:HG23	1:G:146:VAL:HB	1.91	0.52
2:I:724:VAL:HG21	2:I:771:VAL:CG2	2.39	0.52
3:D:379:PRO:HA	3:D:382:TYR:HD2	1.74	0.52
3:D:281:ARG:NH2	5:F:441:ARG:NH2	2.16	0.52
1:M:224:LEU:CG	1:M:225:ALA:N	2.48	0.52
5:R:590:ILE:HG12	5:R:593:LYS:HZ1	1.74	0.52
5:F:583:THR:HG22	5:F:587:ILE:HG12	1.91	0.52
3:D:467:ALA:C	3:D:468:VAL:HG22	2.29	0.52
2:C:1326:LEU:HD22	3:D:342:LEU:HD11	1.91	0.52
1:A:38:THR:OG1	1:B:45:ARG:HD3	2.09	0.52
5:L:460:ILE:HA	5:L:463:LEU:HD12	1.92	0.52
2:I:798:GLN:NE2	2:I:827:ARG:HG2	2.24	0.52
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.38	0.52
4:E:49:ILE:O	4:E:53:GLU:HG3	2.09	0.52
2:I:1292:THR:HG23	2:I:1293:VAL:H	1.74	0.52
5:L:551:LEU:CD2	5:L:597:LYS:HD2	2.39	0.52
3:J:1272:SER:HB2	3:J:1274:PHE:CE2	2.44	0.52
1:M:68:TYR:HE2	2:O:927:THR:HG1	1.51	0.52
6:4:47:DC:C2'	6:4:48:DA:H5''	2.39	0.52
2:I:1031:ALA:C	2:I:1033:ARG:N	2.63	0.52
1:N:208:ASN:C	1:N:210:THR:H	2.12	0.52
2:O:255:ILE:CG2	2:O:285:ILE:HD13	2.39	0.52
3:D:1167:LYS:O	3:D:1174:ARG:HD2	2.09	0.52
3:J:251:PRO:HG2	5:L:507:MET:HE1	1.91	0.52
2:C:528:ARG:HD2	2:C:663:VAL:CG2	2.40	0.52
2:I:1064:ASP:OD1	2:I:1238:LEU:HD22	2.09	0.52
3:J:201:LEU:HD11	3:J:220:ARG:NH1	2.23	0.52
1:A:225:ALA:CB	1:B:228:LEU:HD13	2.32	0.52
2:C:448:LEU:HD13	2:C:557:ARG:HD2	1.91	0.52
1:N:85:LEU:HD21	1:N:130:ILE:HG21	1.90	0.52
3:J:1237:VAL:HG12	3:J:1241:TYR:CE2	2.43	0.52
5:R:387:VAL:HA	5:R:435:ILE:HD13	1.91	0.52
3:J:749:LYS:NZ	3:J:753:SER:HB2	2.24	0.52
3:P:744:ARG:HD2	3:P:763:PHE:HE2	1.74	0.52
2:C:1288:GLN:HG2	2:C:1315:MET:CE	2.38	0.52
2:C:1314:GLN:HG2	2:C:1315:MET:H	1.75	0.52
3:D:431:ARG:HH21	3:D:904:ALA:CB	2.21	0.52
5:F:87:VAL:HG12	5:F:103:ARG:HD3	1.90	0.52
2:I:1269:ARG:N	7:5:16:DC:OP1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1151:LEU:CD2	2:I:1198:LEU:CD1	2.85	0.52
2:O:1253:LEU:HG	2:O:1253:LEU:O	2.00	0.52
2:O:1253:LEU:HD23	3:P:251:PRO:HG2	1.91	0.52
3:J:1165:PHE:HA	3:J:1175:LEU:HD12	1.92	0.52
3:D:1319:PHE:CE2	3:D:1342:ASP:HB2	2.44	0.52
2:O:564:PRO:HB3	8:9:13:GTP:O5'	2.10	0.52
2:C:190:PRO:HG2	2:C:191:LYS:HG3	1.92	0.52
3:J:1099:TYR:HE2	3:J:1195:GLN:HE22	1.55	0.52
2:C:542:ARG:NH2	6:1:49:DG:C8	2.77	0.52
1:H:208:ASN:O	1:H:210:THR:N	2.41	0.52
2:C:514:PHE:CZ	7:2:19:DA:C1'	2.93	0.52
2:C:1040:ASP:N	2:C:1040:ASP:OD1	2.42	0.52
2:I:936:ARG:HG2	2:I:937:ASP:N	2.24	0.52
2:I:719:LYS:O	2:I:779:ARG:HG3	2.09	0.52
3:J:657:ALA:O	3:J:661:VAL:HG23	2.10	0.52
2:I:931:VAL:HG13	2:I:1052:VAL:HG13	1.91	0.52
3:P:423:LEU:CD1	3:P:437:PHE:CD1	2.92	0.52
3:D:820:ILE:CD1	3:D:884:SER:HB2	2.34	0.52
5:L:412:LEU:HD12	5:L:415:ALA:CB	2.31	0.52
3:D:1319:PHE:HD2	3:D:1340:LYS:HD3	1.73	0.52
3:D:496:GLY:CA	3:D:903:LEU:CD2	2.86	0.52
2:I:1048:LYS:O	2:I:1049:ILE:CG1	2.58	0.52
3:P:589:TYR:CE2	3:P:593:ASN:HB2	2.45	0.52
2:I:1331:ARG:HD3	3:J:33:TRP:CD2	2.45	0.52
3:P:28:ASP:OD1	3:P:29:MET:N	2.43	0.52
1:H:188:GLU:O	1:H:200:LYS:HB2	2.09	0.52
3:D:1267:VAL:O	3:D:1268:ASN:HB2	2.10	0.52
1:A:44:ARG:HG3	1:A:183:ILE:HD13	1.92	0.52
1:G:60:GLU:O	1:G:142:MET:HB2	2.09	0.52
3:J:322:ARG:NE	5:L:510:PRO:HD3	2.25	0.52
3:D:133:ARG:HA	3:D:136:GLU:CD	2.30	0.52
5:L:413:MET:O	5:L:417:ASP:OD2	2.27	0.52
3:J:46:TYR:CD2	5:L:500:ILE:HD11	2.44	0.52
3:J:110:PRO:CB	3:J:238:ILE:HG21	2.40	0.52
3:P:688:ALA:O	3:P:692:ARG:CD	2.50	0.52
2:I:550:VAL:O	3:J:777:HIS:CE1	2.63	0.52
2:O:715:THR:HG22	2:O:786:GLY:N	2.18	0.52
5:R:573:LEU:HD11	5:R:584:ARG:HA	1.92	0.52
2:O:830:THR:HG23	2:O:1234:LYS:HZ3	1.72	0.52
2:O:980:VAL:HG12	2:O:980:VAL:O	2.08	0.52
1:A:13:LEU:HA	1:A:28:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:757:THR:HG22	2:O:758:ARG:N	2.25	0.52
2:O:263:VAL:HG12	2:O:264:GLU:O	2.08	0.52
3:P:161:THR:HG23	3:P:164:GLN:HE22	1.74	0.52
3:P:161:THR:HG23	3:P:164:GLN:NE2	2.25	0.52
2:I:459:MET:O	2:I:462:ASN:HB2	2.09	0.52
3:P:377:PHE:HB2	3:P:412:LEU:HD11	1.91	0.52
1:G:53:GLY:HA3	1:G:179:PRO:HG3	1.91	0.52
5:F:585:GLU:HG3	7:2:47:DC:C5	2.44	0.52
5:F:587:ILE:HD13	5:F:587:ILE:N	2.25	0.52
2:I:433:ILE:O	2:I:437:ASN:OD1	2.28	0.52
3:D:1346:GLY:N	3:D:1349:GLU:CD	2.62	0.52
2:O:209:ILE:HG23	2:O:210:LEU:N	2.24	0.52
2:O:726:TYR:CB	2:O:733:VAL:HG22	2.38	0.52
3:J:322:ARG:HH22	5:L:506:SER:CB	2.23	0.52
3:J:740:LEU:O	3:J:762:ASN:HB2	2.10	0.52
5:L:554:ARG:O	5:L:558:VAL:HG23	2.09	0.52
2:C:808:ASN:C	3:D:629:PHE:HB3	2.30	0.52
3:P:297:ARG:HH12	5:R:100:MET:CB	2.22	0.52
3:P:297:ARG:HH12	5:R:100:MET:HB2	1.73	0.52
2:I:1200:LYS:HG3	2:I:1206:THR:HG21	1.92	0.52
2:I:232:ILE:HG21	2:I:326:SER:HB3	1.90	0.52
5:F:490:PRO:HG2	5:F:493:LYS:CB	2.39	0.52
5:R:220:LYS:HE3	5:R:259:PHE:HE1	1.75	0.52
2:I:1047:LEU:C	2:I:1048:LYS:HG3	2.30	0.52
2:I:28:LEU:HD22	2:I:527:LYS:HD2	1.91	0.52
2:O:260:LYS:H	2:O:260:LYS:HD3	1.74	0.52
2:O:253:PHE:CZ	2:O:288:PRO:HD2	2.44	0.52
3:D:28:ASP:HA	3:D:31:ARG:HD2	1.90	0.52
2:O:667:LEU:HD22	2:O:705:GLU:OE2	2.09	0.52
3:J:372:MET:O	3:J:376:LEU:HG	2.10	0.52
1:A:45:ARG:NH1	2:C:1216:ARG:HA	2.22	0.52
3:J:602:SER:HA	3:J:605:LEU:CD1	2.40	0.52
5:F:452:ILE:CB	5:F:457:ILE:HD11	2.40	0.52
5:R:390:ILE:CD1	5:R:432:THR:HG23	2.40	0.52
2:C:1282:GLY:HA3	4:E:17:PHE:CE1	2.44	0.52
3:J:902:ASP:HB2	3:J:909:ILE:CB	2.40	0.52
1:M:102:LEU:HD13	1:M:115:ILE:CG1	2.40	0.52
1:G:31:LEU:HD12	1:G:201:LEU:HB2	1.92	0.52
2:I:1270:PHE:N	3:J:345:LYS:O	2.42	0.52
3:P:749:LYS:CE	3:P:755:ILE:HA	2.39	0.52
3:D:854:ALA:O	3:D:855:ASP:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:154:LEU:HD13	3:J:158:GLN:HG2	1.91	0.52
2:I:822:VAL:HG11	2:I:1060:ILE:CD1	2.40	0.52
3:D:709:ARG:O	3:D:710:ASP:HB3	2.10	0.52
1:G:147:GLN:O	1:G:177:TYR:HE1	1.93	0.52
2:I:980:VAL:CG1	2:I:980:VAL:O	2.58	0.52
2:I:277:LEU:O	2:I:277:LEU:HG	2.08	0.52
2:C:7:GLU:O	2:C:11:ILE:HG13	2.10	0.52
4:K:21:LEU:HD22	4:K:25:ARG:HD3	1.90	0.52
2:C:1147:ARG:HH22	2:C:1201:LEU:HD11	1.74	0.52
3:D:1264:ALA:HB2	3:D:1304:ARG:HA	1.90	0.52
2:C:1331:ARG:HG3	2:C:1337:ILE:CG2	2.39	0.52
3:D:499:ILE:HG22	3:D:500:ILE:HG12	1.91	0.52
3:J:482:ALA:HA	4:K:6:VAL:HG21	1.91	0.52
2:I:1326:LEU:CD2	3:J:342:LEU:CD1	2.87	0.52
2:O:805:MET:HB2	2:O:806:PRO:CD	2.40	0.52
5:L:402:LEU:O	5:L:406:GLN:HG2	2.10	0.52
3:J:864:LEU:HD22	3:J:868:TRP:HB2	1.92	0.52
2:C:257:ALA:CB	2:C:277:LEU:CD1	2.87	0.52
3:J:806:ASP:OD1	3:J:1346:GLY:CA	2.58	0.52
2:I:298:ALA:HB3	2:I:334:GLU:O	2.10	0.52
2:C:808:ASN:HA	3:D:629:PHE:HB3	1.92	0.52
3:D:1175:LEU:HD12	3:D:1176:VAL:H	1.74	0.52
3:P:930:LEU:HB3	3:P:1134:ILE:HD12	1.92	0.52
2:O:859:GLU:HG3	2:O:862:LEU:HB2	1.90	0.52
3:P:518:VAL:O	3:P:520:ALA:N	2.42	0.52
2:C:170:VAL:HG23	3:D:1065:ALA:HA	1.91	0.52
2:O:1326:LEU:HD22	3:P:342:LEU:CD1	2.39	0.52
5:R:585:GLU:HG3	7:8:47:DC:N4	2.25	0.52
5:R:237:ALA:O	5:R:238:LYS:HB2	2.10	0.52
3:D:193:ASP:OD2	3:D:196:GLN:HG3	2.10	0.52
2:O:390:PHE:O	2:O:419:ILE:HG21	2.09	0.52
2:I:1330:ILE:CG2	2:I:1335:ILE:HB	2.40	0.52
1:N:85:LEU:CD2	1:N:130:ILE:HG21	2.40	0.52
3:J:1285:VAL:HG13	3:J:1286:LYS:N	2.25	0.52
3:J:609:TYR:CD1	3:J:609:TYR:C	2.83	0.52
2:O:1230:MET:HG2	2:O:1231:TYR:N	2.24	0.52
3:J:825:VAL:HG21	3:J:838:ARG:NH1	2.25	0.52
1:M:61:ILE:HG23	1:M:141:SER:O	2.10	0.52
6:1:53:DG:H2"	6:1:54:DA:H5'	1.90	0.52
2:C:177:ILE:HA	2:C:183:TRP:CD1	2.45	0.52
5:R:451:ARG:O	5:R:451:ARG:HG3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:936:ARG:HB2	2:O:1047:LEU:O	2.10	0.52
2:C:726:TYR:HA	2:C:773:LEU:HD11	1.92	0.52
5:L:511:ILE:CD1	5:L:519:LEU:HA	2.40	0.52
1:B:155:ALA:H	1:B:174:ASP:CG	2.13	0.52
1:N:73:GLY:HA3	1:N:138:ALA:CB	2.40	0.52
2:C:14:ASP:O	2:C:1155:VAL:HG22	2.10	0.52
2:C:341:LEU:HD21	3:D:1044:GLN:NE2	2.25	0.52
2:I:431:LYS:O	2:I:435:ILE:HG13	2.08	0.52
2:C:1333:LEU:HG	3:D:327:LEU:HD13	1.92	0.52
2:C:974:ARG:O	2:C:978:VAL:HG23	2.10	0.52
3:D:860:ARG:O	3:D:862:THR:HG23	2.10	0.52
3:J:609:TYR:OH	3:J:905:ARG:O	2.18	0.52
3:P:349:TYR:O	3:P:470:VAL:HG23	2.10	0.52
3:D:886:VAL:HG13	3:D:1258:ARG:CB	2.40	0.52
2:C:838:CYS:SG	2:C:886:LYS:HE2	2.49	0.52
3:P:263:SER:N	5:R:507:MET:HB3	2.25	0.52
2:C:809:GLY:CA	3:D:629:PHE:CD1	2.93	0.52
1:N:82:LEU:HD22	1:N:173:VAL:HG22	1.92	0.52
1:A:28:LEU:HD11	1:B:231:PHE:CZ	2.44	0.52
3:P:1319:PHE:CZ	3:P:1342:ASP:HB2	2.45	0.52
2:C:16:GLY:HA2	2:C:1188:ASP:O	2.10	0.52
3:J:1150:PRO:HG2	3:J:1153:PRO:HG3	1.92	0.52
1:N:27:THR:HG22	1:N:202:VAL:HG13	1.91	0.52
2:C:185:ASP:HB2	2:C:197:ARG:HB2	1.92	0.52
3:P:44:ILE:HG22	3:P:51:PRO:HA	1.92	0.52
3:J:860:ARG:O	3:J:862:THR:HG23	2.10	0.52
3:P:424:ASN:HB3	3:P:467:ALA:HB3	1.92	0.51
3:D:163:GLU:N	3:D:163:GLU:CD	2.63	0.51
2:C:886:LYS:HD2	2:C:916:SER:CB	2.24	0.51
2:O:1290:MET:CA	2:O:1294:LYS:HD2	2.38	0.51
3:P:555:TYR:HB3	3:P:563:LEU:CD2	2.23	0.51
5:L:407:GLU:HG2	5:L:442:SER:CB	2.37	0.51
2:O:152:SER:HB3	2:O:452:ARG:HB2	1.92	0.51
2:O:557:ARG:HD3	2:O:587:LEU:HB3	1.91	0.51
3:D:647:PRO:HG3	3:D:697:MET:HA	1.92	0.51
5:L:84:LEU:HG	5:L:107:THR:CG2	2.40	0.51
5:R:392:LYS:HG3	5:R:395:THR:HG21	1.92	0.51
7:8:22:DA:H1'	7:8:23:DT:OP1	2.10	0.51
3:J:145:VAL:O	3:J:178:ALA:HB1	2.10	0.51
3:J:68:TYR:O	3:J:76:LYS:HA	2.10	0.51
2:I:75:LEU:CD2	2:I:127:ILE:CD1	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:60:ASN:O	4:Q:64:LEU:HG	2.10	0.51
2:C:1014:LEU:O	2:C:1017:GLN:HB3	2.10	0.51
5:F:471:LEU:HG	5:F:476:ARG:O	2.10	0.51
2:I:556:GLY:HA2	2:I:659:GLN:O	2.10	0.51
7:2:21:DG:H2"	7:2:22:DA:C8	2.45	0.51
5:R:345:GLN:O	5:R:348:GLU:HB2	2.11	0.51
3:J:403:ARG:O	3:J:404:GLU:HB2	2.09	0.51
3:D:181:GLY:O	3:D:185:ILE:HD13	1.97	0.51
2:I:148:GLN:NE2	2:I:533:LEU:O	2.24	0.51
2:C:1324:ASN:O	2:C:1328:LYS:HG2	2.09	0.51
3:D:843:VAL:CG2	3:D:897:HIS:O	2.58	0.51
1:G:228:LEU:HD12	1:H:228:LEU:HD12	1.92	0.51
3:P:1230:THR:HG23	3:P:1257:VAL:HG11	1.93	0.51
3:P:844:THR:HB	3:P:881:LYS:O	2.10	0.51
2:I:818:VAL:HG12	2:I:1096:ILE:HG23	1.92	0.51
1:M:81:ILE:HG23	1:M:130:ILE:O	2.10	0.51
5:L:403:ASP:O	5:L:406:GLN:HB2	2.10	0.51
2:C:253:PHE:CB	2:C:288:PRO:HG2	2.38	0.51
3:D:275:ARG:NH1	3:D:298:MET:O	2.44	0.51
2:C:217:THR:HG23	2:C:351:LEU:HD21	1.91	0.51
1:M:56:VAL:CG1	1:M:144:ILE:CG2	2.85	0.51
6:4:47:DC:C2	6:4:48:DA:C6	2.98	0.51
2:O:758:ARG:HB2	2:O:833:ILE:HG21	1.92	0.51
5:R:353:LEU:HB3	5:R:358:VAL:CG2	2.41	0.51
5:L:353:LEU:HB3	5:L:358:VAL:HG22	1.91	0.51
1:H:223:ILE:HG22	1:H:227:GLN:HE21	1.75	0.51
2:I:719:LYS:N	2:I:719:LYS:CD	2.73	0.51
3:P:352:ARG:O	3:P:353:SER:HB2	2.09	0.51
5:L:333:VAL:O	5:L:337:VAL:HG23	2.10	0.51
4:K:39:VAL:HG13	4:K:40:PRO:HD2	1.93	0.51
1:B:86:LYS:HB2	3:D:528:THR:HG21	1.92	0.51
3:P:130:MET:SD	3:P:135:ILE:HG12	2.51	0.51
3:J:370:LYS:HA	3:J:441:LEU:HD22	1.93	0.51
2:I:1337:ILE:CD1	3:J:22:ILE:CD1	2.89	0.51
2:C:704:MET:HE3	2:C:708:VAL:HG23	1.91	0.51
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.20	0.51
6:7:42:DG:P	6:7:42:DG:H3'	2.50	0.51
5:F:583:THR:HG21	5:F:586:ARG:CB	2.33	0.51
3:D:1347:LEU:CD2	3:D:1357:ILE:HG23	2.40	0.51
3:D:485:MET:CG	3:D:487:THR:OG1	2.56	0.51
1:G:77:ASP:O	1:G:81:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:397:LEU:HD11	2:O:420:LEU:HD21	1.92	0.51
2:O:18:ARG:HH12	2:O:623:LEU:HD12	1.71	0.51
2:I:194:LEU:HD12	2:I:195:PHE:N	2.25	0.51
3:D:275:ARG:HG2	3:D:278:ARG:HH22	1.74	0.51
3:J:1274:PHE:O	3:J:1278:GLU:CG	2.59	0.51
3:P:218:THR:CG2	3:P:222:LYS:HE3	2.36	0.51
2:C:797:GLY:HA3	2:C:1233:LEU:HD23	1.91	0.51
2:O:1233:LEU:HD23	2:O:1234:LYS:H	1.76	0.51
3:P:975:ILE:HD12	3:P:997:VAL:HG11	1.93	0.51
3:J:620:PHE:C	3:J:624:ILE:HD12	2.30	0.51
5:R:547:VAL:HG11	5:R:598:LEU:HD22	1.93	0.51
1:A:61:ILE:CD1	1:A:64:VAL:HG11	2.39	0.51
6:1:21:DC:H2''	6:1:22:DC:C5	2.44	0.51
3:J:121:PRO:O	3:J:122:SER:CB	2.57	0.51
3:D:712:GLN:O	3:D:713:GLU:CG	2.58	0.51
2:C:941:LYS:H	2:C:941:LYS:HD2	1.75	0.51
2:I:36:GLN:CD	2:I:36:GLN:O	2.48	0.51
3:J:1035:VAL:CG1	3:J:1078:LEU:HD22	2.40	0.51
2:C:68:LEU:HD21	2:C:493:ILE:HD11	1.93	0.51
2:O:1304:MET:HG3	2:O:1314:GLN:O	2.09	0.51
3:J:886:VAL:HG21	3:J:1257:VAL:HB	1.92	0.51
3:D:608:CYS:SG	3:D:617:THR:HA	2.50	0.51
5:L:385:ARG:HB3	6:4:42:DG:H5'	1.93	0.51
2:O:660:VAL:HB	2:O:661:VAL:HG22	1.92	0.51
3:D:97:VAL:CG1	3:D:101:ARG:HG3	2.33	0.51
3:D:622:ASP:HA	3:D:625:MET:HE2	1.93	0.51
7:8:17:DG:N2	8:9:13:GTP:C5	2.79	0.51
2:I:271:ALA:HA	2:I:274:ILE:HD12	1.92	0.51
1:B:223:ILE:O	1:B:227:GLN:HG2	2.10	0.51
1:G:42:ALA:HA	1:H:38:THR:CG2	2.40	0.51
1:N:156:SER:O	1:N:159:ILE:CG2	2.56	0.51
1:G:158:ARG:NE	1:G:172:LEU:HD11	2.25	0.51
2:C:242:VAL:HB	2:C:245:ARG:HG3	1.92	0.51
3:D:370:LYS:HE3	3:D:443:GLU:HB3	1.93	0.51
3:P:36:GLY:HA3	3:P:61:ILE:HG12	1.92	0.51
1:A:229:GLU:O	1:A:233:ASP:HB2	2.10	0.51
5:R:366:SER:HA	5:R:369:GLU:OE1	2.10	0.51
2:C:283:LYS:C	2:C:284:LEU:HG	2.31	0.51
3:J:501:VAL:HG12	3:J:502:PRO:CD	2.36	0.51
2:C:1065:LYS:NZ	8:3:14:A:O2'	2.42	0.51
2:C:685:MET:HE2	2:C:1073:LYS:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1258:PRO:CG	3:D:346:ARG:HB2	2.38	0.51
6:7:49:DG:O3'	6:7:50:DT:H4'	2.11	0.51
3:D:1146:GLU:OE2	3:D:1309:ILE:HG21	2.10	0.51
1:M:100:LEU:CD2	1:M:115:ILE:HG21	2.39	0.51
3:J:1159:ILE:HG22	3:J:1160:SER:H	1.76	0.51
3:P:113:HIS:HB3	3:P:116:PHE:CD2	2.45	0.51
3:D:746:LEU:HG	3:D:758:PRO:HB3	1.93	0.51
5:F:388:ILE:HG23	5:F:389:SER:N	2.25	0.51
2:C:191:LYS:O	2:C:192:ASP:HB2	2.10	0.51
3:J:497:GLU:CB	3:J:498:PRO:HD2	2.41	0.51
1:B:183:ILE:O	1:B:184:ALA:HB2	2.10	0.51
3:J:1115:ILE:HD13	3:J:1121:LEU:HD21	1.93	0.51
2:C:871:VAL:HG22	2:C:883:LEU:O	2.09	0.51
3:D:1167:LYS:HE3	3:D:1167:LYS:N	2.25	0.51
2:I:565:GLU:HG3	2:I:566:GLY:H	1.75	0.51
2:I:1176:LEU:HD22	2:I:1181:PRO:HD3	1.92	0.51
2:I:158:ASP:HB2	2:I:173:ASN:OD1	2.10	0.51
3:J:712:GLN:C	3:J:713:GLU:HG2	2.30	0.51
3:D:33:TRP:O	3:D:35:PHE:CE2	2.64	0.51
2:C:980:VAL:HG12	2:C:980:VAL:O	2.11	0.51
5:F:585:GLU:O	5:F:588:ARG:HB3	2.11	0.51
3:D:378:LYS:HG2	3:D:382:TYR:CZ	2.46	0.51
3:J:918:ILE:HG22	3:J:919:ALA:H	1.75	0.51
3:P:453:VAL:HG12	3:P:500:ILE:HD13	1.93	0.51
3:P:347:VAL:CG1	3:P:348:ASP:N	2.74	0.51
2:I:1304:MET:HE2	2:I:1308:ILE:HD11	1.91	0.51
3:J:428:THR:CG2	3:J:921:GLN:NE2	2.73	0.51
2:I:489:PRO:O	2:I:493:ILE:CG1	2.59	0.51
2:I:1269:ARG:NH2	7:5:15:DT:OP1	2.43	0.51
3:D:697:MET:SD	3:D:738:ARG:HA	2.50	0.51
3:D:262:THR:HA	5:F:507:MET:HE3	1.93	0.51
4:E:60:ASN:OD1	4:E:60:ASN:C	2.49	0.51
3:J:160:LEU:CD2	3:J:164:GLN:HB3	2.39	0.51
2:I:104:ILE:HD11	2:I:484:LEU:O	2.11	0.51
5:R:324:LYS:CB	5:R:325:PRO:CD	2.87	0.51
3:P:1258:ARG:CG	3:P:1258:ARG:HH11	2.23	0.51
1:G:97:GLU:OE2	1:G:145:LYS:HD3	2.11	0.51
3:P:332:LYS:HE3	3:P:1328:THR:H	1.76	0.51
3:P:333:GLY:C	3:P:336:GLY:H	2.13	0.51
1:A:71:LYS:HG2	1:A:72:GLU:H	1.75	0.51
3:J:841:GLY:O	3:J:863:LEU:HD11	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:580:PHE:O	5:F:581:ASP:CB	2.58	0.51
2:I:511:LEU:HD21	2:I:534:GLY:HA3	1.92	0.51
3:D:490:ILE:CD1	3:D:490:ILE:N	2.73	0.51
3:D:922:SER:O	3:D:926:PRO:HD3	2.11	0.51
2:O:433:ILE:O	2:O:437:ASN:OD1	2.28	0.51
3:J:320:ASN:HD21	3:J:322:ARG:HG2	1.74	0.51
2:O:149:LEU:HD13	2:O:453:ILE:HD13	1.92	0.51
3:P:268:LEU:HB2	3:P:306:LEU:HD13	1.93	0.51
1:A:155:ALA:CB	1:A:174:ASP:OD1	2.59	0.51
3:J:1255:VAL:HG12	3:J:1256:ILE:N	2.24	0.51
2:I:1212:LEU:HB3	2:I:1221:PHE:CE2	2.45	0.51
3:P:259:ARG:CZ	5:R:502:LYS:HG2	2.41	0.51
2:I:1054:LEU:HD22	2:I:1055:ALA:O	2.11	0.51
2:O:796:LEU:HB3	2:O:1233:LEU:HD11	1.92	0.51
3:P:1286:LYS:HB3	3:P:1290:ARG:NH2	2.25	0.51
3:D:1035:VAL:HG13	3:D:1078:LEU:HB3	1.92	0.51
3:D:807:LEU:HD22	3:D:1259:GLN:HG2	1.93	0.51
3:D:435:GLN:CD	3:D:486:SER:HA	2.31	0.51
2:O:90:VAL:HG11	5:R:476:ARG:NH2	2.26	0.51
3:P:536:LEU:HD13	3:P:542:ALA:HB2	1.91	0.51
1:A:56:VAL:HG21	1:A:85:LEU:O	2.10	0.51
3:J:1260:MET:HG2	3:J:1307:LEU:O	2.10	0.51
2:C:251:ALA:O	2:C:266:GLY:HA2	2.11	0.51
2:C:173:ASN:HB3	2:C:187:GLU:HB3	1.93	0.51
2:I:951:MET:O	2:I:955:GLN:HG2	2.11	0.51
3:J:332:LYS:HE3	3:J:1328:THR:N	2.26	0.51
1:M:43:LEU:HD11	1:M:201:LEU:HD21	1.93	0.51
1:M:221:ALA:HB1	1:N:228:LEU:HD21	1.93	0.51
4:Q:5:THR:HG22	4:Q:7:GLN:H	1.76	0.51
2:C:1281:TYR:CZ	3:D:431:ARG:CG	2.93	0.51
2:I:165:HIS:HE2	2:I:190:PRO:HB3	1.74	0.51
2:O:210:LEU:CD2	2:O:213:LEU:HD12	2.36	0.51
2:O:725:GLN:HB3	2:O:733:VAL:HG23	1.91	0.51
3:D:884:SER:OG	3:D:885:VAL:N	2.44	0.51
2:O:1161:LEU:C	2:O:1161:LEU:HD12	2.31	0.51
1:M:102:LEU:HD21	1:M:130:ILE:HD13	1.91	0.51
3:D:1138:LEU:CB	3:D:1139:PRO:CD	2.83	0.51
2:I:1273:MET:HA	2:I:1276:TRP:CE3	2.46	0.51
2:C:817:LEU:HB3	2:C:1097:VAL:HB	1.92	0.51
3:D:746:LEU:CG	3:D:758:PRO:HB3	2.40	0.51
2:C:90:VAL:HG13	2:C:91:THR:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1035:VAL:CG2	3:D:1121:LEU:HD21	2.40	0.51
2:O:852:ALA:O	2:O:862:LEU:CD2	2.59	0.51
2:O:16:GLY:O	2:O:1156:ARG:HB2	2.10	0.51
6:7:59:DG:C6	7:8:3:DG:O6	2.64	0.51
2:O:539:THR:HG22	2:O:540:ARG:N	2.26	0.51
3:J:179:LYS:HG2	3:J:180:MET:H	1.75	0.51
3:J:967:VAL:HG13	3:J:973:LEU:HD12	1.92	0.51
2:I:993:PRO:O	2:I:997:TRP:CD1	2.63	0.51
2:C:211:ARG:CZ	2:C:357:ASN:O	2.58	0.51
1:H:197:ASP:HB3	1:H:198:LEU:HD13	1.93	0.51
3:D:546:ALA:O	3:D:548:VAL:CG2	2.59	0.51
5:L:364:ARG:HA	5:L:367:ILE:HD12	1.92	0.51
3:J:233:LYS:HG3	3:J:234:PRO:HD2	1.91	0.51
2:O:1286:THR:HB	2:O:1290:MET:HE2	1.93	0.51
3:P:514:THR:HG21	3:P:596:LEU:HD12	1.92	0.51
2:C:1121:ALA:HB2	2:C:1182:ILE:CD1	2.34	0.51
5:R:135:ALA:CB	5:R:256:PHE:CB	2.81	0.51
3:J:575:GLY:O	3:J:579:LEU:HG	2.11	0.51
3:P:407:VAL:CG2	3:P:408:VAL:N	2.72	0.51
3:D:452:LEU:HD11	3:D:625:MET:HB2	1.92	0.51
2:O:247:ARG:HA	2:O:274:ILE:CD1	2.38	0.51
3:P:749:LYS:HE2	3:P:755:ILE:HA	1.93	0.51
3:J:69:GLU:HG2	3:J:70:CYS:O	2.11	0.51
5:F:110:LEU:N	5:F:110:LEU:HD12	2.22	0.51
3:P:371:LYS:O	3:P:374:LEU:HB3	2.11	0.51
1:G:18:GLN:HG3	1:G:24:ALA:HB2	1.93	0.51
6:4:28:DA:H2'	6:4:29:DC:C6	2.46	0.51
6:1:46:DG:C8	6:1:46:DG:C5'	2.93	0.51
3:P:1265:THR:OG1	3:P:1303:SER:OG	2.28	0.51
3:P:891:ASP:OD1	3:P:891:ASP:N	2.43	0.51
1:A:62:ASP:N	1:A:62:ASP:OD1	2.43	0.51
3:P:1002:VAL:HB	3:P:1019:ASN:O	2.11	0.51
3:J:1250:ASP:OD1	3:J:1250:ASP:N	2.44	0.51
3:J:848:VAL:C	3:J:849:LEU:HD23	2.28	0.51
3:D:425:ARG:HB3	3:D:457:TYR:HD1	1.76	0.51
2:I:366:ILE:O	2:I:369:MET:HG3	2.11	0.51
3:P:1138:LEU:HD23	3:P:1139:PRO:CD	2.41	0.51
2:C:1320:PRO:HB3	3:D:345:LYS:NZ	2.26	0.51
3:D:1251:LYS:O	3:D:1254:GLU:HB2	2.10	0.51
1:H:82:LEU:CD2	1:H:173:VAL:CG2	2.84	0.51
1:H:61:ILE:HA	1:H:142:MET:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1107:MET:HE3	3:D:739:GLN:HB3	1.93	0.51
2:O:550:VAL:O	3:P:777:HIS:HE1	1.94	0.51
3:J:923:ILE:CD1	3:J:1252:HIS:HB3	2.40	0.51
1:N:79:LEU:O	1:N:83:LEU:HD23	2.11	0.51
6:4:50:DT:H5'	6:4:51:DC:H6	1.72	0.51
2:O:1269:ARG:HH12	3:P:340:GLN:HG3	1.73	0.51
1:N:106:GLY:HA2	1:N:136:GLU:HA	1.92	0.51
2:I:1101:LEU:HD11	3:J:508:LEU:HD23	1.90	0.51
2:O:975:ILE:HG23	2:O:1011:LEU:CD1	2.38	0.51
1:B:74:VAL:O	1:B:74:VAL:CG1	2.58	0.51
5:R:112:THR:O	5:R:114:GLU:N	2.44	0.51
2:C:902:LEU:HD13	5:F:540:LEU:HD21	1.92	0.51
3:D:1179:PRO:CD	3:D:1182:GLY:O	2.59	0.51
2:I:1299:ASN:H	2:I:1299:ASN:ND2	2.09	0.51
2:O:496:LYS:HB2	2:O:497:PRO:HD3	1.92	0.51
3:D:185:ILE:O	3:D:189:LEU:HD12	2.11	0.50
2:C:1278:LEU:CD1	2:C:1287:LEU:HA	2.40	0.50
3:D:423:LEU:HB2	3:D:466:MET:HE1	1.93	0.50
3:P:1145:PHE:C	3:P:1309:ILE:HD11	2.31	0.50
2:I:165:HIS:HE2	2:I:190:PRO:CB	2.24	0.50
3:D:840:LEU:HD13	3:D:869:CYS:SG	2.51	0.50
1:G:31:LEU:HD11	1:G:201:LEU:CB	2.40	0.50
3:J:610:ARG:HD2	3:J:866:GLU:OE1	2.11	0.50
3:D:276:ASN:OD1	3:D:279:LEU:HD23	2.11	0.50
3:J:112:ALA:H	3:J:300:GLN:HE22	1.59	0.50
5:R:399:LEU:HD21	5:R:447:ALA:HB2	1.93	0.50
2:O:662:SER:OG	2:O:663:VAL:N	2.42	0.50
3:J:515:ARG:NH2	3:J:717:VAL:HB	2.22	0.50
2:I:298:ALA:HA	2:I:336:LEU:HD11	1.93	0.50
2:C:1252:SER:CA	2:C:1259:LEU:HD21	2.40	0.50
3:D:339:ARG:HH12	3:D:798:ARG:NH1	2.09	0.50
2:C:539:THR:HG22	2:C:540:ARG:H	1.76	0.50
5:F:289:LYS:CE	5:F:290:LEU:HG	2.39	0.50
2:O:102:LEU:CD2	2:O:104:ILE:HD11	2.40	0.50
2:C:1307:ASN:HB3	2:C:1312:ASN:HD22	1.76	0.50
1:H:75:GLN:CG	1:H:134:THR:CG2	2.89	0.50
5:F:123:ILE:CG2	5:F:376:LYS:HE3	2.40	0.50
1:B:175:ALA:HB1	1:B:177:TYR:CZ	2.46	0.50
2:O:34:SER:HA	2:O:37:LYS:HE3	1.92	0.50
2:C:58:PRO:CG	2:C:69:GLN:HG2	2.41	0.50
3:D:825:VAL:HG21	3:D:1242:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:250:THR:HG22	2:C:251:ALA:H	1.75	0.50
3:J:43:THR:HB	3:J:44:ILE:HG23	1.93	0.50
5:F:585:GLU:OE2	5:F:588:ARG:CB	2.59	0.50
7:2:24:DT:H72	7:2:25:DA:N6	2.25	0.50
3:P:608:CYS:SG	3:P:617:THR:CG2	2.78	0.50
5:F:551:LEU:CD1	5:F:559:LEU:HD12	2.41	0.50
3:D:491:LEU:HD21	3:D:609:TYR:CD2	2.45	0.50
5:L:452:ILE:HG23	5:L:456:MET:CB	2.40	0.50
3:J:930:LEU:HD11	3:J:1246:VAL:CG2	2.41	0.50
1:H:61:ILE:HD12	1:H:171:LEU:HD11	1.94	0.50
3:P:650:LYS:O	3:P:654:ILE:HG13	2.11	0.50
2:I:953:LEU:HB3	2:I:957:LYS:NZ	2.25	0.50
2:O:997:TRP:HB3	2:O:1000:LEU:CD2	2.39	0.50
1:H:55:ALA:HB3	1:H:177:TYR:CD1	2.46	0.50
2:O:851:THR:HG22	2:O:852:ALA:N	2.24	0.50
2:C:1225:VAL:HG13	2:C:1226:THR:N	2.26	0.50
5:F:306:PHE:O	5:F:310:GLU:HG3	2.11	0.50
2:O:189:ASP:HB2	2:O:195:PHE:CD2	2.46	0.50
3:P:367:GLY:HA3	3:P:448:GLN:HB2	1.94	0.50
2:O:942:ASP:HB2	2:O:945:ALA:HB2	1.93	0.50
1:G:14:VAL:HG12	1:G:15:ASP:N	2.25	0.50
1:M:224:LEU:CD2	1:N:228:LEU:CG	2.81	0.50
3:J:1253:ILE:O	3:J:1257:VAL:CG2	2.57	0.50
5:L:586:ARG:O	5:L:590:ILE:HG13	2.11	0.50
1:G:49:SER:HB2	1:H:33:ARG:CZ	2.41	0.50
1:H:140:ILE:HG12	1:H:142:MET:CE	2.41	0.50
2:I:675:ASP:HB2	2:I:1107:MET:CE	2.33	0.50
3:D:1307:LEU:HD12	3:D:1312:ALA:HA	1.93	0.50
3:P:930:LEU:CD1	3:P:1134:ILE:HG13	2.41	0.50
1:A:56:VAL:HG13	1:A:144:ILE:HG21	1.92	0.50
2:C:184:LEU:HB3	2:C:186:PHE:CE2	2.46	0.50
2:I:1119:MET:HE3	2:I:1199:LEU:HD21	1.93	0.50
2:I:736:VAL:O	2:I:741:MET:CE	2.60	0.50
1:G:155:ALA:HB1	1:G:172:LEU:HG	1.93	0.50
3:D:416:ILE:CD1	3:D:441:LEU:CD1	2.89	0.50
7:2:32:DA:H2"	7:2:33:DC:OP2	2.11	0.50
1:A:166:ARG:HD2	1:A:170:ARG:HG2	1.92	0.50
3:P:548:VAL:HG12	3:P:549:LYS:N	2.27	0.50
5:F:572:THR:O	5:F:576:VAL:HG23	2.12	0.50
3:J:755:ILE:HD12	3:J:774:ILE:CG2	2.42	0.50
1:M:38:THR:HG22	1:N:42:ALA:HB1	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1129:ASN:HA	2:O:1132:LEU:HD12	1.92	0.50
2:C:559:CYS:HB2	2:C:662:SER:HB3	1.93	0.50
1:M:154:PRO:HD2	1:M:157:THR:OG1	2.11	0.50
5:L:390:ILE:HD13	5:L:432:THR:HA	1.94	0.50
1:M:11:PRO:HB2	1:M:28:LEU:HD12	1.93	0.50
2:I:1107:MET:HE1	3:J:763:PHE:HE2	1.74	0.50
2:I:15:PHE:CD2	2:I:1182:ILE:CG2	2.95	0.50
2:O:13:LYS:HD2	2:O:1149:TYR:HA	1.94	0.50
3:J:143:SER:HB2	3:J:160:LEU:O	2.12	0.50
3:P:371:LYS:O	3:P:374:LEU:CD2	2.56	0.50
3:J:824:PRO:HD3	3:J:878:ASP:O	2.11	0.50
3:J:425:ARG:HH12	8:6:16:U:H1'	1.76	0.50
3:P:233:LYS:HE2	3:P:236:TRP:NE1	2.27	0.50
2:I:27:LEU:HD12	2:I:711:ASP:CB	2.41	0.50
3:P:139:LEU:HA	3:P:181:GLY:HA2	1.93	0.50
3:D:1285:VAL:CG1	3:D:1286:LYS:N	2.74	0.50
3:D:111:THR:HG23	3:D:300:GLN:OE1	2.11	0.50
2:I:148:GLN:NE2	2:I:534:GLY:HA3	2.27	0.50
3:J:1285:VAL:CG1	3:J:1286:LYS:N	2.75	0.50
2:O:672:GLU:CG	2:O:1187:PHE:HA	2.42	0.50
2:C:1283:ALA:CB	3:D:479:GLU:OE2	2.52	0.50
3:D:609:TYR:HA	3:D:617:THR:CG2	2.40	0.50
2:O:297:VAL:HG11	2:O:311:CYS:HB2	1.93	0.50
5:R:453:PRO:HG2	6:7:31:DT:OP1	2.11	0.50
6:7:53:DG:H2''	6:7:54:DA:C5'	2.42	0.50
2:C:13:LYS:NZ	2:C:1149:TYR:O	2.45	0.50
3:D:795:TYR:CE1	7:2:12:DG:H5'	2.47	0.50
1:H:86:LYS:HE3	1:H:173:VAL:CG1	2.40	0.50
2:C:230:PHE:CD1	2:C:292:ILE:HD11	2.47	0.50
2:C:149:LEU:HD21	2:C:451:ARG:NE	2.14	0.50
1:H:61:ILE:HA	1:H:142:MET:HB2	1.93	0.50
3:P:838:ARG:CG	3:P:1250:ASP:OD2	2.60	0.50
2:O:191:LYS:O	2:O:192:ASP:CB	2.58	0.50
3:J:64:PRO:HG3	3:J:93:THR:H	1.76	0.50
3:J:136:GLU:O	3:J:140:TYR:HD2	1.94	0.50
2:C:1104:PRO:HG3	3:D:725:MET:CE	2.40	0.50
2:I:1256:GLN:NE2	3:J:96:LYS:NZ	2.60	0.50
5:F:434:TRP:HH2	6:1:35:DC:OP2	1.94	0.50
3:D:830:ASP:HB3	3:D:832:LYS:NZ	2.26	0.50
3:D:219:LYS:O	3:D:222:LYS:HB2	2.12	0.50
4:E:69:ARG:O	4:E:73:GLN:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:139:LEU:O	3:P:141:PHE:HD2	1.93	0.50
3:D:385:LEU:HD22	3:D:391:ALA:HB2	1.93	0.50
1:A:180:VAL:HA	1:A:207:THR:CG2	2.14	0.50
3:J:139:LEU:CD2	3:J:185:ILE:HD13	2.39	0.50
3:P:453:VAL:CG1	3:P:500:ILE:HD13	2.42	0.50
5:R:464:ASN:CG	7:8:25:DA:N6	2.65	0.50
3:P:795:TYR:CD1	7:8:12:DG:C5'	2.95	0.50
5:L:390:ILE:HG21	5:L:432:THR:HG23	1.94	0.50
2:C:255:ILE:CD1	2:C:285:ILE:HG21	2.42	0.50
2:C:1109:ILE:N	2:C:1109:ILE:HD13	2.27	0.50
5:F:166:VAL:CG1	5:F:167:ASP:N	2.69	0.50
3:P:318:GLY:HA3	3:P:322:ARG:NH1	2.20	0.50
3:J:1266:ILE:CD1	3:J:1278:GLU:HB3	2.40	0.50
3:J:1164:SER:O	3:J:1175:LEU:HD12	2.11	0.50
3:D:249:LEU:C	3:D:251:PRO:HD3	2.31	0.50
1:M:68:TYR:OH	2:O:1057:LYS:HG2	2.12	0.50
3:P:746:LEU:CG	3:P:758:PRO:HB3	2.35	0.50
3:D:1307:LEU:N	3:D:1307:LEU:HD23	2.26	0.50
3:P:843:VAL:CB	3:P:897:HIS:O	2.57	0.50
2:O:170:VAL:HG23	3:P:1065:ALA:O	2.11	0.50
3:D:40:LYS:NZ	3:D:53:ARG:HE	2.10	0.50
3:D:849:LEU:HD21	3:D:855:ASP:OD1	2.12	0.50
2:O:758:ARG:HB2	2:O:833:ILE:CG2	2.41	0.50
3:D:700:ASN:O	3:D:704:GLU:CB	2.60	0.50
3:D:967:VAL:HG22	3:D:973:LEU:CD1	2.41	0.50
5:F:235:ILE:HG23	5:F:240:ARG:HD3	1.93	0.50
1:G:106:GLY:HA2	1:G:136:GLU:HA	1.94	0.50
2:I:49:LEU:HD23	2:I:464:PHE:CE2	2.47	0.50
3:J:1082:ASP:HB3	3:J:1088:VAL:CG2	2.42	0.50
2:I:1296:ASP:N	2:I:1296:ASP:OD1	2.42	0.50
2:O:414:ILE:H	2:O:414:ILE:HD13	1.77	0.50
1:M:35:PHE:O	1:M:39:LEU:HD21	2.10	0.50
2:C:708:VAL:HG12	2:C:794:LEU:HD22	1.90	0.50
3:D:379:PRO:CG	3:D:380:PHE:H	2.25	0.50
3:D:395:LYS:CB	3:D:398:LYS:HE3	2.41	0.50
3:J:1225:GLY:O	3:J:1229:VAL:HG12	2.12	0.50
3:D:894:VAL:HG22	3:D:915:ILE:HD11	1.93	0.50
1:G:221:ALA:O	1:G:224:LEU:HB3	2.11	0.50
2:C:1151:LEU:CD2	2:C:1198:LEU:CD1	2.72	0.50
2:C:375:PRO:N	5:F:87:VAL:HG21	2.26	0.50
1:M:100:LEU:CD2	1:M:115:ILE:CG2	2.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1104:PRO:HB3	3:P:725:MET:HE1	1.92	0.50
2:I:185:ASP:OD2	2:I:200:ARG:NE	2.41	0.50
2:I:563:THR:HG22	2:I:680:LEU:HD11	1.94	0.50
3:D:450:HIS:CD2	3:D:452:LEU:H	2.30	0.50
2:I:448:LEU:HG	2:I:553:THR:OG1	2.12	0.50
1:N:158:ARG:CD	1:N:172:LEU:HD11	2.41	0.50
3:J:520:ALA:HB3	3:J:546:ALA:CB	2.42	0.50
5:L:298:PRO:HD2	5:L:326:TRP:CH2	2.47	0.50
2:I:75:LEU:CD2	2:I:127:ILE:HD12	2.42	0.50
5:R:418:LYS:NZ	6:7:35:DC:OP2	2.38	0.50
3:J:824:PRO:HB3	3:J:834:PRO:HA	1.93	0.50
2:O:1210:ILE:HG22	2:O:1211:ARG:N	2.26	0.50
2:C:385:PHE:HA	2:C:388:LEU:HD12	1.93	0.50
2:C:1008:GLN:HE22	2:C:1011:LEU:HD23	1.76	0.50
2:I:876:GLU:HG2	2:I:927:THR:OG1	2.12	0.50
7:2:25:DA:H1'	7:2:26:DT:H5''	1.94	0.50
3:D:1330:ARG:O	3:D:1334:GLU:HG3	2.12	0.50
3:J:47:ARG:NH2	6:4:30:DG:O3'	2.44	0.50
2:I:192:ASP:HB3	2:I:346:TYR:HD1	1.77	0.50
2:O:1299:ASN:OD1	2:O:1299:ASN:N	2.45	0.50
2:I:661:VAL:HG12	2:I:665:ALA:HB3	1.91	0.50
1:M:69:SER:O	1:M:78:ILE:CD1	2.60	0.50
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.12	0.50
1:A:150:ARG:HB3	1:B:6:THR:OG1	2.12	0.50
2:I:805:MET:HE2	2:I:806:PRO:CD	2.42	0.50
5:F:426:LYS:HE2	6:1:40:DA:OP2	2.12	0.50
2:O:1237:HIS:CE1	2:O:1242:LYS:HZ1	2.28	0.50
5:F:443:ILE:CG2	5:F:444:ALA:N	2.75	0.50
3:J:1350:ASN:HD22	3:J:1356:LEU:C	2.15	0.50
2:O:293:ALA:HB2	2:O:319:LEU:CD2	2.39	0.50
3:J:69:GLU:HG2	3:J:69:GLU:O	2.12	0.50
2:I:232:ILE:HG21	2:I:326:SER:CB	2.42	0.50
3:P:1263:LYS:HD3	3:P:1280:VAL:C	2.32	0.50
1:B:76:GLU:CG	1:B:80:GLU:CD	2.80	0.50
5:L:120:ALA:CB	5:L:421:TYR:HB3	2.42	0.50
3:P:1157:ALA:O	3:P:1223:LEU:HD13	2.11	0.50
2:O:157:PHE:N	2:O:157:PHE:CD1	2.79	0.50
2:C:143:ARG:NH1	2:C:507:GLY:HA2	2.27	0.50
1:B:217:ILE:HG22	1:B:218:ARG:N	2.25	0.50
2:C:1289:GLU:OE2	3:D:472:LEU:N	2.45	0.50
3:D:424:ASN:O	3:D:466:MET:HE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:CYS:HB2	2:C:918:LEU:HD22	1.93	0.50
5:R:461:ASN:CA	7:8:26:DT:H72	2.42	0.50
2:I:870:ILE:CG2	2:I:944:ARG:HD3	2.41	0.50
5:L:429:THR:OG1	6:4:39:DA:H8	1.75	0.50
2:C:260:LYS:HD3	2:I:490:GLN:OE1	2.11	0.50
3:D:105:ILE:HD12	3:D:242:LEU:CD2	2.31	0.50
1:N:65:LEU:O	1:N:169:GLY:CA	2.54	0.50
3:D:497:GLU:CB	3:D:498:PRO:CD	2.89	0.50
6:1:51:DC:C4	6:1:52:DT:O4	2.65	0.50
3:D:807:LEU:HG	3:D:893:GLY:HA2	1.93	0.50
3:P:1078:LEU:CG	3:P:1101:LEU:HD11	2.41	0.50
2:C:1334:GLY:C	3:D:25:ALA:HB2	2.31	0.50
3:J:621:ALA:HA	3:J:624:ILE:HD12	1.93	0.50
3:D:749:LYS:HE3	3:D:755:ILE:CG1	2.42	0.50
2:O:1088:ASP:HB2	2:O:1091:GLY:H	1.77	0.50
3:J:945:ALA:CB	3:J:1023:HIS:HE1	2.25	0.50
3:D:696:ALA:O	3:D:700:ASN:HB2	2.11	0.50
3:P:552:ILE:HG21	3:P:589:TYR:CD1	2.47	0.50
3:P:478:LEU:HD11	4:Q:23:ALA:CB	2.42	0.50
3:J:303:VAL:O	3:J:306:LEU:HB3	2.12	0.50
3:D:522:GLY:CA	3:D:525:MET:SD	3.00	0.50
5:F:601:PRO:HB3	5:F:608:ARG:NH2	2.27	0.50
2:O:766:ASN:ND2	2:O:766:ASN:C	2.65	0.50
1:G:25:LYS:HZ2	1:G:202:VAL:HG12	1.74	0.49
2:C:669:PRO:CB	2:C:1184:THR:CG2	2.90	0.49
3:D:238:ILE:HG23	3:D:239:LEU:N	2.27	0.49
2:I:357:ASN:N	2:I:361:SER:OG	2.45	0.49
3:J:843:VAL:HG11	3:J:883:ARG:CD	2.29	0.49
2:O:295:LYS:O	2:O:317:LEU:HB2	2.12	0.49
5:L:452:ILE:CG2	5:L:456:MET:HB2	2.42	0.49
6:7:54:DA:H2"	6:7:55:DC:C6	2.47	0.49
3:J:826:ILE:HG21	3:J:994:SER:CB	2.37	0.49
6:1:59:DG:H2"	6:1:60:DC:C6	2.47	0.49
5:R:91:ILE:CD1	5:R:103:ARG:HH22	2.25	0.49
2:I:905:ILE:HA	5:L:595:LEU:HD22	1.93	0.49
2:I:1124:ILE:HG23	2:I:1144:PHE:HE2	1.77	0.49
2:I:686:GLN:NE2	2:I:1069:ARG:CD	2.75	0.49
1:N:64:VAL:HG11	1:N:78:ILE:CD1	2.42	0.49
2:O:829:THR:HG23	2:O:1058:ARG:O	2.12	0.49
3:P:807:LEU:HD23	3:P:1255:VAL:HG12	1.94	0.49
3:D:1101:LEU:HD22	3:D:1122:ALA:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD21	1:B:30:PRO:HG2	1.94	0.49
2:O:165:HIS:HB2	2:O:168:GLY:H	1.77	0.49
3:D:849:LEU:O	3:D:850:LYS:CB	2.60	0.49
3:P:1190:ILE:HD13	3:P:1196:LEU:CD1	2.42	0.49
2:C:177:ILE:HA	2:C:183:TRP:HD1	1.77	0.49
2:O:73:TYR:HB2	2:O:98:VAL:HG22	1.93	0.49
3:P:1280:VAL:HG12	3:P:1281:GLU:N	2.25	0.49
2:I:60:GLN:CG	2:I:67:GLU:OE1	2.60	0.49
2:I:719:LYS:N	2:I:719:LYS:HD2	2.27	0.49
1:B:86:LYS:HB3	1:B:176:CYS:SG	2.52	0.49
5:L:360:ASP:O	5:L:364:ARG:HB2	2.11	0.49
5:R:84:LEU:HD22	5:R:88:GLU:OE2	2.11	0.49
3:J:1355:ARG:HD3	3:J:1369:ARG:HH22	1.76	0.49
3:J:646:ILE:HG13	3:J:764:ARG:HH11	1.76	0.49
2:I:878:THR:HA	2:I:925:SER:HB2	1.94	0.49
2:I:878:THR:HG22	2:I:879:GLY:N	2.27	0.49
3:J:353:SER:CB	3:J:372:MET:CE	2.77	0.49
3:D:190:LYS:HG3	3:D:235:GLU:OE2	2.12	0.49
5:F:452:ILE:HG22	5:F:457:ILE:CG1	2.43	0.49
2:C:1066:MET:HE3	2:C:1234:LYS:HA	1.92	0.49
2:C:1294:LYS:NZ	3:D:349:TYR:HB2	2.27	0.49
1:G:79:LEU:O	1:G:82:LEU:HB2	2.11	0.49
7:5:27:DA:C8	7:5:27:DA:OP1	2.65	0.49
3:J:786:THR:CG2	3:J:787:ALA:H	2.25	0.49
2:I:1294:LYS:HD3	3:J:347:VAL:HG11	1.93	0.49
3:D:117:LEU:HA	3:D:124:ILE:CD1	2.36	0.49
8:9:14:A:C5'	8:9:15:G:OP2	2.54	0.49
2:I:448:LEU:CD1	2:I:553:THR:O	2.61	0.49
3:P:79:LYS:CG	5:R:569:THR:HG23	2.39	0.49
2:O:1107:MET:CG	3:P:740:LEU:HD11	2.39	0.49
3:J:26:SER:H	3:J:29:MET:CE	2.25	0.49
2:I:684:ASN:HA	2:I:687:ARG:NH2	2.26	0.49
2:I:840:SER:OG	2:I:1048:LYS:N	2.45	0.49
3:P:1319:PHE:CE2	3:P:1342:ASP:HB2	2.47	0.49
3:P:572:THR:HB	3:P:589:TYR:OH	2.11	0.49
1:H:81:ILE:HG23	1:H:84:ASN:HD22	1.77	0.49
4:Q:76:GLU:O	4:Q:80:LEU:HG	2.11	0.49
1:M:59:VAL:CG1	1:M:60:GLU:N	2.74	0.49
3:P:1169:THR:C	3:P:1171:GLY:H	2.15	0.49
2:O:60:GLN:O	2:O:476:LYS:HE3	2.12	0.49
5:L:309:ASN:OD1	5:L:312:SER:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1176:VAL:HG22	3:J:1187:GLU:HG2	1.93	0.49
2:I:1315:MET:HG2	2:I:1317:PRO:HD3	1.94	0.49
1:B:169:GLY:O	1:B:171:LEU:HG	2.11	0.49
3:J:886:VAL:CG1	3:J:1261:LEU:HD13	2.33	0.49
3:D:421:VAL:HG23	3:D:439:PRO:HG2	1.94	0.49
3:D:844:THR:CG2	3:D:864:LEU:HD21	2.41	0.49
2:O:1290:MET:HA	2:O:1294:LYS:CD	2.39	0.49
2:I:668:ILE:O	2:I:1186:VAL:HG22	2.13	0.49
3:J:931:THR:HG23	3:J:1134:ILE:CG2	2.42	0.49
3:D:1151:LYS:CD	3:D:1151:LYS:N	2.60	0.49
3:J:1318:SER:OG	3:J:1321:SER:CB	2.57	0.49
3:P:762:ASN:OD1	3:P:764:ARG:HB3	2.13	0.49
4:Q:30:MET:HE1	4:Q:46:THR:HA	1.94	0.49
3:P:261:ALA:HB1	5:R:507:MET:HA	1.94	0.49
2:O:1073:LYS:NZ	8:9:15:G:O5'	2.44	0.49
2:I:1277:ALA:O	2:I:1280:ALA:HB3	2.12	0.49
1:H:35:PHE:O	1:H:39:LEU:HG	2.13	0.49
3:D:1011:VAL:HG11	3:D:1017:VAL:CG1	2.41	0.49
2:I:82:VAL:HG23	2:I:83:GLN:N	2.27	0.49
3:D:643:ASP:O	3:D:720:ASN:ND2	2.44	0.49
5:F:565:ILE:O	5:F:566:ASP:CB	2.60	0.49
3:J:708:ASN:ND2	3:J:713:GLU:HG2	2.27	0.49
3:P:615:LYS:N	3:P:616:PRO:CD	2.75	0.49
2:O:548:ARG:HH12	3:P:788:LEU:HD23	1.77	0.49
2:C:653:MET:HG2	2:C:654:ASP:N	2.27	0.49
5:F:547:VAL:HG21	5:F:607:LEU:HD11	1.93	0.49
2:I:568:ASN:HA	2:I:571:LEU:HD12	1.92	0.49
2:I:854:ILE:HG22	2:I:857:VAL:HB	1.94	0.49
2:I:1034:ARG:HA	2:I:1037:THR:CB	2.42	0.49
3:D:395:LYS:HA	3:D:398:LYS:CG	2.43	0.49
3:D:337:ARG:HH11	3:D:341:ASN:HD21	1.60	0.49
3:D:799:ARG:HD2	3:D:1309:ILE:HG21	1.94	0.49
2:C:559:CYS:HG	2:C:661:VAL:HG12	1.75	0.49
2:O:805:MET:C	2:O:1100:PRO:HD3	2.33	0.49
5:L:407:GLU:CG	5:L:442:SER:HB3	2.41	0.49
3:P:643:ASP:HA	3:P:720:ASN:HD21	1.76	0.49
2:C:673:HIS:O	3:D:763:PHE:CD1	2.66	0.49
5:F:167:ASP:N	5:F:168:PRO:HD3	2.26	0.49
3:J:1172:LYS:HE2	3:J:1191:PRO:HA	1.94	0.49
3:D:625:MET:CG	3:D:629:PHE:HE2	2.25	0.49
1:M:61:ILE:HG12	1:M:142:MET:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:53:DG:H1'	6:1:54:DA:H5'	1.94	0.49
2:I:813:GLU:O	3:J:461:PHE:HB2	2.12	0.49
3:P:1210:ILE:HG22	3:P:1211:SER:N	2.27	0.49
1:N:18:GLN:HG3	1:N:24:ALA:HB2	1.94	0.49
2:O:49:LEU:HD13	2:O:73:TYR:CZ	2.48	0.49
6:4:59:DG:C6	7:5:3:DG:O6	2.66	0.49
2:O:693:LEU:HA	2:O:831:ILE:HD11	1.94	0.49
2:C:170:VAL:HG23	3:D:1065:ALA:CB	2.43	0.49
5:R:429:THR:OG1	6:7:39:DA:H8	1.96	0.49
3:D:651:HIS:HA	3:D:654:ILE:HD12	1.93	0.49
7:2:35:DT:H2''	7:2:36:DG:OP2	2.12	0.49
5:R:394:TYR:O	5:R:396:ASN:N	2.45	0.49
2:O:25:PRO:O	2:O:27:LEU:HD23	2.12	0.49
5:F:601:PRO:HB3	5:F:608:ARG:HH21	1.76	0.49
1:G:43:LEU:HD13	1:G:203:ILE:HD11	1.94	0.49
3:P:252:LEU:HD12	3:P:253:VAL:N	2.27	0.49
3:D:1170:LYS:HG2	3:D:1170:LYS:O	2.12	0.49
3:J:1063:ASP:HB3	3:J:1103:GLY:HA3	1.94	0.49
3:J:1254:GLU:HA	3:J:1257:VAL:HG21	1.95	0.49
3:P:1231:ARG:O	3:P:1234:VAL:HB	2.12	0.49
2:O:811:ASN:CB	2:O:1099:ASN:HB2	2.42	0.49
1:M:76:GLU:CB	1:M:81:ILE:HG13	2.41	0.49
3:J:278:ARG:HH21	5:L:406:GLN:HB3	1.78	0.49
5:L:383:ASN:HD22	5:L:386:LEU:CD2	2.26	0.49
2:O:1101:LEU:HD21	3:P:725:MET:CG	2.39	0.49
3:J:104:HIS:HA	3:J:244:VAL:HG23	1.94	0.49
3:J:424:ASN:N	3:J:466:MET:CE	2.75	0.49
1:B:183:ILE:HB	1:B:205:MET:HE2	1.95	0.49
3:P:26:SER:O	3:P:30:ILE:HG13	2.12	0.49
2:O:862:LEU:O	2:O:865:LEU:HB2	2.12	0.49
3:J:197:GLU:HA	3:J:200:GLN:CD	2.32	0.49
1:G:121:VAL:O	1:G:122:GLU:HG3	2.12	0.49
1:H:52:PRO:HA	1:H:150:ARG:CB	2.42	0.49
2:I:452:ARG:NH2	2:I:458:GLU:CD	2.66	0.49
2:C:251:ALA:HB3	2:C:266:GLY:H	1.77	0.49
3:P:1150:PRO:O	3:P:1153:PRO:HD3	2.12	0.49
2:I:1336:ASN:HD22	3:J:23:ALA:HB3	1.76	0.49
3:D:419:HIS:CE1	3:D:477:GLN:NE2	2.80	0.49
2:C:406:ASN:HD22	2:C:414:ILE:HA	1.76	0.49
1:A:232:VAL:HG13	1:B:221:ALA:HB3	1.95	0.49
3:D:395:LYS:O	3:D:398:LYS:CD	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:111:THR:CG2	3:D:112:ALA:N	2.75	0.49
3:J:1254:GLU:C	3:J:1257:VAL:HG23	2.33	0.49
5:R:428:SER:OG	6:7:41:DT:H73	2.13	0.49
3:D:470:VAL:CG1	3:D:472:LEU:CD2	2.91	0.49
3:D:479:GLU:HA	4:E:20:VAL:HG21	1.94	0.49
2:C:1275:VAL:HG12	2:C:1279:GLU:CD	2.33	0.49
3:J:805:GLN:HB2	3:J:1347:LEU:CG	2.43	0.49
2:O:1142:ARG:HG3	2:O:1161:LEU:CD2	2.43	0.49
3:J:828:GLY:HA2	3:J:996:LYS:N	2.28	0.49
1:N:13:LEU:HD12	1:N:28:LEU:HD22	1.92	0.49
2:O:830:THR:OG1	2:O:832:HIS:HD2	1.95	0.49
1:B:48:LEU:HD21	1:B:183:ILE:HG22	1.93	0.49
3:D:92:VAL:O	3:D:93:THR:HG23	2.13	0.49
5:F:489:MET:HB2	5:F:494:ILE:HD11	1.95	0.49
5:F:451:ARG:NH1	6:1:32:DA:OP1	2.46	0.49
2:I:27:LEU:HD12	2:I:711:ASP:HB3	1.93	0.49
2:I:750:ILE:HG23	2:I:750:ILE:O	2.13	0.49
1:B:61:ILE:HD12	1:B:171:LEU:CD1	2.43	0.49
3:J:1237:VAL:CG1	3:J:1241:TYR:HE2	2.24	0.49
1:G:91:ARG:HD2	1:G:124:VAL:HG22	1.83	0.49
3:P:526:VAL:O	3:P:527:LEU:HD23	2.13	0.49
3:P:1353:VAL:HG21	3:P:1355:ARG:CD	2.33	0.49
3:D:501:VAL:CG1	3:D:502:PRO:HD2	2.32	0.49
3:J:786:THR:HA	3:J:935:PHE:CD2	2.48	0.49
6:1:58:DG:C2	7:2:6:DG:N2	2.81	0.49
1:M:66:HIS:O	1:M:78:ILE:CD1	2.60	0.49
2:C:1107:MET:CE	3:D:740:LEU:HD21	2.31	0.49
1:B:88:LEU:HD22	1:B:128:HIS:CD2	2.48	0.49
2:O:56:VAL:HG21	2:O:468:LEU:HD22	1.94	0.49
1:M:83:LEU:HD13	1:M:86:LYS:CD	2.38	0.49
3:D:646:ILE:HG13	3:D:764:ARG:HH11	1.78	0.49
2:I:678:ARG:CD	2:I:1106:ARG:O	2.58	0.49
3:J:97:VAL:HG12	3:J:101:ARG:CD	2.43	0.49
6:4:53:DG:H1'	6:4:54:DA:H5'	1.95	0.49
1:A:81:ILE:O	1:A:85:LEU:HG	2.12	0.49
3:P:161:THR:OG1	3:P:164:GLN:NE2	2.45	0.49
3:D:600:ALA:O	3:D:604:MET:SD	2.71	0.49
3:P:525:MET:O	3:P:548:VAL:HG13	2.12	0.49
2:O:414:ILE:N	2:O:414:ILE:HD13	2.27	0.49
3:J:809:VAL:HB	3:J:911:LYS:HA	1.95	0.49
5:L:423:ARG:HD3	6:4:37:DA:C4	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:173:GLY:O	3:D:175:GLU:N	2.46	0.49
5:F:585:GLU:CG	7:2:47:DC:H41	2.22	0.49
5:F:585:GLU:HG3	7:2:46:DT:C5	2.47	0.49
3:D:1261:LEU:HD13	3:D:1304:ARG:HD3	1.92	0.49
3:D:471:PRO:HG2	3:D:471:PRO:O	2.13	0.49
2:C:1330:ILE:HD12	2:C:1337:ILE:HD12	1.93	0.49
5:F:84:LEU:CD1	5:F:107:THR:CG2	2.70	0.49
2:O:424:ASP:O	2:O:428:VAL:HG23	2.12	0.49
5:L:586:ARG:C	5:L:587:ILE:HD13	2.26	0.49
2:O:18:ARG:HH11	2:O:623:LEU:HD12	1.66	0.49
3:D:909:ILE:CD1	3:D:910:ASN:N	2.71	0.49
2:I:680:LEU:HD23	3:J:783:LEU:HD23	1.94	0.49
3:P:925:GLU:N	3:P:926:PRO:CD	2.75	0.49
3:P:1163:VAL:HG22	3:P:1177:ILE:HG23	1.95	0.49
5:L:490:PRO:O	5:L:494:ILE:CD1	2.60	0.49
2:O:13:LYS:O	2:O:1183:ALA:N	2.32	0.49
2:O:668:ILE:HD11	2:O:686:GLN:NE2	2.27	0.49
5:F:417:ASP:OD1	5:F:417:ASP:N	2.44	0.49
3:D:1167:LYS:O	3:D:1174:ARG:NE	2.45	0.49
3:J:296:LYS:O	3:J:299:LEU:HD23	2.12	0.49
3:P:201:LEU:HD22	3:P:217:LEU:CD2	2.43	0.49
5:F:476:ARG:HG3	5:F:477:GLU:N	2.28	0.49
2:I:13:LYS:HB2	2:I:1149:TYR:CE1	2.48	0.49
1:M:224:LEU:HD11	1:M:228:LEU:HD12	1.94	0.49
2:C:1281:TYR:CZ	3:D:431:ARG:HB2	2.48	0.49
2:O:1085:MET:HE2	2:O:1086:PRO:HD2	1.95	0.49
2:I:191:LYS:CG	3:J:1069:ALA:HB3	2.42	0.49
2:I:1326:LEU:HD22	3:J:342:LEU:CD1	2.42	0.49
3:D:332:LYS:CE	7:2:11:DA:OP1	2.61	0.49
5:L:386:LEU:HD22	6:4:41:DT:N3	2.28	0.49
3:P:720:ASN:O	3:P:724:MET:CG	2.48	0.49
1:N:140:ILE:CG1	1:N:142:MET:HE1	2.37	0.49
1:M:150:ARG:CD	1:M:150:ARG:H	2.23	0.49
2:I:1232:MET:C	2:I:1233:LEU:HG	2.33	0.49
2:O:1238:LEU:HB3	2:O:1240:ASP:HB2	1.95	0.49
1:A:69:SER:O	1:A:78:ILE:CG1	2.60	0.49
2:I:655:VAL:CG1	2:I:656:SER:N	2.73	0.49
8:6:14:A:H5'	8:6:15:G:OP2	2.11	0.49
2:I:38:PHE:HE1	2:I:461:GLU:HA	1.78	0.49
3:J:1240:VAL:O	3:J:1243:LEU:HB3	2.12	0.49
5:F:511:ILE:HD13	5:F:519:LEU:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:252:LEU:O	5:F:255:VAL:HB	2.12	0.49
3:D:1229:VAL:CG1	3:D:1230:THR:H	2.21	0.49
2:O:1286:THR:CB	3:P:479:GLU:OE2	2.61	0.49
5:F:91:ILE:HD11	5:F:103:ARG:CZ	2.43	0.49
3:P:622:ASP:HB3	3:P:626:TYR:CE2	2.32	0.49
3:J:268:LEU:O	3:J:272:VAL:HG23	2.13	0.49
2:I:726:TYR:N	2:I:733:VAL:HG22	2.28	0.49
3:D:70:CYS:CB	3:D:90:VAL:CG1	2.91	0.49
2:C:846:GLY:CA	2:C:889:PRO:HG2	2.41	0.49
2:C:726:TYR:HB3	2:C:733:VAL:CG2	2.42	0.49
3:J:1265:THR:OG1	3:J:1303:SER:OG	2.29	0.49
2:O:1225:VAL:HG12	2:O:1226:THR:N	2.26	0.49
2:I:402:ARG:CD	2:I:416:GLY:HA3	2.43	0.49
3:J:1098:GLN:HB3	3:J:1100:PHE:CE2	2.47	0.49
6:1:34:DG:C5	6:1:35:DC:N4	2.81	0.49
2:O:496:LYS:CB	2:O:497:PRO:HD3	2.43	0.49
5:F:606:VAL:HG23	5:F:607:LEU:HG	1.95	0.49
3:P:75:TYR:HB3	3:P:92:VAL:HG21	1.94	0.49
3:P:481:ARG:O	3:P:485:MET:CB	2.59	0.48
5:R:590:ILE:HA	5:R:593:LYS:CE	2.43	0.48
3:D:163:GLU:OE1	3:D:163:GLU:N	2.46	0.48
2:I:190:PRO:CB	3:J:1069:ALA:HB2	2.31	0.48
3:D:1145:PHE:CZ	3:D:1253:ILE:HG23	2.48	0.48
2:O:225:PHE:CE2	2:O:347:ILE:HB	2.48	0.48
2:C:1257:GLN:HE21	3:D:345:LYS:HB3	1.77	0.48
5:L:457:ILE:HA	5:L:460:ILE:HD12	1.94	0.48
2:C:559:CYS:HB2	2:C:662:SER:N	2.28	0.48
2:C:1117:LEU:HG	2:C:1117:LEU:O	2.13	0.48
1:N:219:ARG:O	1:N:223:ILE:CG1	2.58	0.48
2:I:686:GLN:HE21	2:I:1069:ARG:HG2	1.76	0.48
3:D:746:LEU:HD21	3:D:758:PRO:HB3	1.90	0.48
6:4:47:DC:C2	6:4:48:DA:C4	3.00	0.48
2:O:363:LEU:HA	2:O:366:ILE:HD12	1.94	0.48
2:I:448:LEU:HD11	2:I:553:THR:O	2.13	0.48
2:O:883:LEU:HG	2:O:920:VAL:HG23	1.95	0.48
3:J:141:PHE:HA	3:J:180:MET:HG2	1.95	0.48
1:G:46:ILE:HG12	1:H:35:PHE:CE1	2.48	0.48
2:C:452:ARG:NH2	2:C:458:GLU:OE1	2.45	0.48
3:D:1165:PHE:CE1	3:D:1199:PHE:O	2.66	0.48
1:M:59:VAL:HG12	1:M:60:GLU:N	2.27	0.48
2:I:1034:ARG:HA	2:I:1037:THR:HB	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:849:GLU:O	2:I:887:VAL:HG22	2.13	0.48
2:O:590:PRO:HD3	2:O:605:TYR:CE1	2.48	0.48
2:I:1307:ASN:HB3	2:I:1312:ASN:HB3	1.95	0.48
3:J:368:LEU:HA	3:J:447:ILE:HG23	1.94	0.48
5:F:468:ARG:NH2	7:2:25:DA:H8	2.11	0.48
2:C:1288:GLN:CB	2:C:1315:MET:CE	2.90	0.48
1:G:9:LEU:HD23	1:G:32:GLU:HG3	1.94	0.48
3:D:1280:VAL:HG13	3:D:1281:GLU:H	1.78	0.48
3:J:796:LEU:CD1	3:J:800:LEU:HD21	2.42	0.48
3:J:421:VAL:HG13	3:J:469:HIS:O	2.11	0.48
3:P:415:VAL:HA	4:Q:45:LYS:NZ	2.28	0.48
3:J:1172:LYS:HD3	3:J:1189:MET:CE	2.43	0.48
3:D:79:LYS:CE	5:F:569:THR:HB	2.43	0.48
6:4:44:DG:H2''	6:4:45:DT:C4'	2.43	0.48
5:F:533:ASP:N	5:F:533:ASP:OD1	2.46	0.48
2:O:525:THR:CG2	2:O:526:HIS:N	2.76	0.48
3:J:26:SER:H	3:J:29:MET:HE2	1.78	0.48
3:P:909:ILE:CG1	3:P:910:ASN:N	2.76	0.48
2:C:1006:GLU:HB2	2:C:1007:LYS:HZ1	1.77	0.48
1:H:75:GLN:NE2	1:H:132:HIS:HB3	2.27	0.48
5:F:434:TRP:CE2	6:1:36:DT:C7	2.96	0.48
1:G:199:ASP:OD1	1:G:199:ASP:N	2.46	0.48
2:I:1034:ARG:HA	2:I:1037:THR:OG1	2.13	0.48
5:F:213:ASP:OD1	5:F:213:ASP:N	2.46	0.48
2:I:211:ARG:HB2	2:I:362:ALA:CB	2.43	0.48
3:J:608:CYS:HG	3:J:617:THR:HG22	1.75	0.48
2:C:1289:GLU:OE2	3:D:472:LEU:CA	2.61	0.48
2:C:1283:ALA:HA	3:D:479:GLU:OE1	2.12	0.48
2:O:194:LEU:HD23	2:O:206:ALA:CB	2.43	0.48
2:I:184:LEU:CD2	2:I:389:PHE:CE2	2.82	0.48
3:J:291:ILE:HG23	5:L:409:ASN:HD22	1.79	0.48
2:C:865:LEU:HD13	2:C:869:GLY:HA2	1.93	0.48
2:C:870:ILE:N	2:C:870:ILE:HD13	2.27	0.48
2:C:797:GLY:CA	2:C:1233:LEU:HD23	2.41	0.48
2:I:1223:ARG:HG3	3:J:636:GLY:O	2.13	0.48
3:D:1307:LEU:HD12	3:D:1312:ALA:CB	2.44	0.48
3:P:1163:VAL:CG2	3:P:1177:ILE:HG23	2.43	0.48
2:I:1072:ASN:CG	2:I:1111:GLN:OE1	2.51	0.48
2:I:851:THR:HG23	2:I:852:ALA:H	1.76	0.48
1:G:24:ALA:HB2	1:G:213:PRO:HG2	1.95	0.48
2:O:693:LEU:HD12	2:O:693:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:902:ASP:HB2	3:P:909:ILE:HA	1.94	0.48
5:F:279:ARG:NH2	5:F:347:ILE:HG12	2.27	0.48
3:J:712:GLN:C	3:J:713:GLU:CG	2.81	0.48
3:J:306:LEU:O	3:J:326:SER:HB2	2.13	0.48
2:O:444:ASP:O	2:O:450:ASN:ND2	2.47	0.48
2:O:1271:GLY:O	2:O:1275:VAL:HG23	2.13	0.48
2:I:1006:GLU:CD	2:I:1006:GLU:N	2.66	0.48
1:M:112:ALA:HB1	1:M:123:ILE:HG21	1.94	0.48
1:M:84:ASN:O	1:M:128:HIS:NE2	2.46	0.48
2:O:1311:GLY:O	4:Q:31:GLN:HG2	2.13	0.48
2:O:79:VAL:HG23	2:O:95:PRO:HD3	1.95	0.48
3:D:484:MET:CG	3:D:484:MET:CE	2.90	0.48
1:M:39:LEU:HD12	1:M:201:LEU:HD22	1.94	0.48
1:A:225:ALA:HA	1:A:228:LEU:HB2	1.95	0.48
4:Q:2:ALA:HB3	4:Q:5:THR:O	2.12	0.48
3:J:490:ILE:HD11	3:J:614:LEU:CD1	2.41	0.48
3:D:421:VAL:HG23	3:D:439:PRO:CG	2.43	0.48
3:D:1346:GLY:O	3:D:1349:GLU:HB2	2.12	0.48
2:O:432:LEU:CG	2:O:433:ILE:N	2.71	0.48
2:I:661:VAL:CG1	2:I:662:SER:N	2.76	0.48
1:A:190:ALA:O	1:A:192:VAL:HG23	2.12	0.48
2:I:1294:LYS:CD	3:J:347:VAL:CG1	2.85	0.48
3:P:422:LEU:O	3:P:468:VAL:CG1	2.54	0.48
5:L:84:LEU:HD21	5:L:107:THR:HG23	1.95	0.48
1:M:68:TYR:HE2	2:O:927:THR:OG1	1.96	0.48
2:I:686:GLN:CG	2:I:1069:ARG:HG2	2.44	0.48
1:M:79:LEU:O	1:M:83:LEU:HD23	2.13	0.48
2:I:745:GLU:CG	2:I:746:ALA:N	2.67	0.48
2:C:1185:PRO:HD2	2:C:1189:GLY:HA2	1.95	0.48
3:J:145:VAL:CG2	3:J:158:GLN:O	2.59	0.48
3:J:1218:HIS:CD2	3:J:1306:LEU:HD23	2.49	0.48
3:J:875:ASN:O	3:J:876:SER:CB	2.55	0.48
3:P:927:GLY:HA2	3:P:1134:ILE:CD1	2.43	0.48
3:P:930:LEU:HB3	3:P:1134:ILE:HG13	1.93	0.48
2:C:1307:ASN:HB3	2:C:1312:ASN:HB3	1.95	0.48
5:R:137:TYR:HE1	5:R:353:LEU:HD12	1.77	0.48
5:L:269:LEU:O	5:L:272:SER:HB2	2.13	0.48
3:D:121:PRO:O	3:D:122:SER:CB	2.58	0.48
3:P:57:PHE:HB3	3:P:98:ARG:NH2	2.29	0.48
3:P:82:GLY:HA2	3:P:91:GLU:OE2	2.14	0.48
2:C:716:ALA:HB3	2:C:784:ALA:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:363:LEU:N	3:P:450:HIS:CE1	2.82	0.48
5:F:583:THR:HG21	5:F:586:ARG:HG2	1.94	0.48
1:G:225:ALA:CA	1:H:228:LEU:HD13	2.44	0.48
3:P:795:TYR:CE1	7:8:12:DG:C5'	2.96	0.48
2:I:666:SER:OG	2:I:704:MET:CE	2.61	0.48
2:I:496:LYS:HD2	5:L:468:ARG:NH2	2.10	0.48
3:D:1356:LEU:CD1	3:D:1365:TYR:CD1	2.91	0.48
3:D:452:LEU:CD1	3:D:625:MET:HE2	2.36	0.48
2:C:52:ALA:HB1	2:C:468:LEU:HD12	1.95	0.48
2:O:409:LEU:CD2	2:O:431:LYS:HB2	2.44	0.48
7:8:29:DC:H2"	7:8:30:DA:C8	2.48	0.48
2:O:736:VAL:HG12	2:O:737:ASN:N	2.28	0.48
3:J:972:LYS:HB3	3:J:1002:VAL:CG1	2.43	0.48
3:P:576:ARG:HG2	3:P:592:VAL:HG22	1.95	0.48
3:J:967:VAL:HG22	3:J:973:LEU:CD1	2.43	0.48
5:R:320:ILE:HG12	5:R:327:SER:OG	2.13	0.48
6:4:46:DG:C8	6:4:46:DG:C5'	2.97	0.48
2:O:447:HIS:O	2:O:450:ASN:HB2	2.13	0.48
1:A:32:GLU:HG2	1:A:33:ARG:N	2.29	0.48
5:R:300:LYS:HE2	5:R:300:LYS:HB3	1.69	0.48
2:C:1300:GLY:O	2:C:1304:MET:HB2	2.13	0.48
3:J:1209:VAL:HG13	3:J:1211:SER:O	2.13	0.48
2:I:968:GLU:O	2:I:972:PHE:HB2	2.13	0.48
2:I:1333:LEU:HD21	3:J:327:LEU:CB	2.44	0.48
3:J:234:PRO:O	3:J:237:MET:HG2	2.14	0.48
3:D:471:PRO:CB	3:D:476:ALA:HB1	2.43	0.48
2:O:415:GLU:HG3	2:O:416:GLY:N	2.28	0.48
3:D:885:VAL:HG11	3:D:1255:VAL:HA	1.95	0.48
5:L:262:VAL:CG1	5:L:263:PRO:HD2	2.44	0.48
4:E:49:ILE:HG22	4:E:50:ALA:CA	2.42	0.48
5:L:593:LYS:HE2	5:L:596:ARG:HH12	1.78	0.48
2:I:810:TYR:HB2	2:I:817:LEU:HD21	1.95	0.48
3:D:496:GLY:CA	3:D:903:LEU:HD21	2.44	0.48
3:D:147:ILE:HD12	3:D:178:ALA:CA	2.44	0.48
5:F:133:SER:CB	5:F:365:MET:SD	3.01	0.48
2:C:934:PHE:HD2	2:C:1049:ILE:HB	1.78	0.48
3:J:1218:HIS:CG	3:J:1306:LEU:HD23	2.48	0.48
2:C:178:PRO:HD2	2:C:183:TRP:CD1	2.49	0.48
1:G:18:GLN:HG3	1:G:24:ALA:CB	2.43	0.48
1:G:112:ALA:O	1:G:115:ILE:CD1	2.61	0.48
2:O:878:THR:HG22	2:O:879:GLY:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:967:VAL:CG2	3:D:973:LEU:CD1	2.92	0.48
2:C:1044:PRO:HB3	5:F:498:LEU:HB3	1.96	0.48
3:J:382:TYR:HA	3:J:385:LEU:HD12	1.96	0.48
1:A:224:LEU:CG	1:B:228:LEU:HD11	2.41	0.48
3:D:385:LEU:HD13	3:D:397:ALA:HA	1.95	0.48
1:A:235:ARG:OXT	1:B:218:ARG:HD3	2.13	0.48
2:C:448:LEU:HD12	2:C:557:ARG:NH1	2.29	0.48
3:J:128:LEU:HD21	3:J:189:LEU:CD2	2.43	0.48
3:P:770:LEU:O	3:P:770:LEU:HG	2.06	0.48
2:O:1323:PHE:CD1	2:O:1327:LEU:HD11	2.49	0.48
2:I:555:TYR:CZ	2:I:660:VAL:HG22	2.48	0.48
5:L:426:LYS:HB3	6:4:39:DA:P	2.54	0.48
5:L:415:ALA:HB2	5:L:434:TRP:HB2	1.96	0.48
1:M:158:ARG:NE	1:M:172:LEU:HD11	2.29	0.48
2:O:888:THR:HG23	2:O:889:PRO:HD2	1.96	0.48
2:O:374:GLU:HB2	5:R:99:ARG:CD	2.44	0.48
2:C:314:ASN:HD21	2:C:351:LEU:HD13	1.76	0.48
3:J:820:ILE:HG21	3:J:1231:ARG:HD2	1.95	0.48
6:4:47:DC:N3	6:4:48:DA:C2	2.80	0.48
3:D:849:LEU:HA	3:D:856:ILE:O	2.14	0.48
3:P:1029:THR:HG22	3:P:1099:TYR:CD1	2.49	0.48
2:O:859:GLU:HA	2:O:862:LEU:HB2	1.95	0.48
2:O:920:VAL:HG13	2:O:921:PRO:HD2	1.95	0.48
3:P:859:PRO:HG2	3:P:868:TRP:HZ3	1.79	0.48
3:P:683:ILE:HG22	3:P:684:ASP:OD1	2.13	0.48
1:N:150:ARG:CB	1:N:150:ARG:HH11	2.27	0.48
3:P:254:PRO:HB3	3:P:260:PHE:CZ	2.48	0.48
2:C:1339:LEU:HD22	3:D:17:PHE:CE1	2.48	0.48
3:P:52:GLU:HA	3:P:52:GLU:OE1	2.13	0.48
2:C:1262:LYS:O	2:C:1262:LYS:HG3	2.12	0.48
3:J:801:VAL:HG22	3:J:920:ALA:HB3	1.96	0.48
3:J:1292:LEU:O	3:J:1296:GLY:N	2.41	0.48
3:D:969:SER:HB3	3:D:1116:SER:OG	2.13	0.48
1:G:86:LYS:HE2	1:G:173:VAL:HG13	1.96	0.48
3:D:215:LYS:O	3:D:218:THR:HB	2.14	0.48
1:M:31:LEU:HD13	1:M:39:LEU:CD1	2.44	0.48
1:N:37:HIS:CE1	2:O:1216:ARG:HD2	2.49	0.48
2:C:1273:MET:N	2:C:1274:GLU:OE1	2.47	0.48
2:C:1274:GLU:H	2:C:1274:GLU:CD	2.07	0.48
1:M:100:LEU:HD22	1:M:115:ILE:HG23	1.89	0.48
2:I:185:ASP:CG	2:I:200:ARG:HE	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:59:DG:H2'	6:1:60:DC:C5	2.49	0.48
3:D:245:LEU:HD11	3:D:249:LEU:CD1	2.44	0.48
1:H:47:LEU:HD12	1:H:183:ILE:HD12	1.93	0.48
2:O:902:LEU:HA	2:O:905:ILE:HD12	1.95	0.48
2:I:1031:ALA:C	2:I:1033:ARG:H	2.16	0.48
2:C:929:ILE:HG23	2:C:930:ASP:N	2.29	0.48
2:O:13:LYS:HG3	2:O:1149:TYR:HD1	1.79	0.48
1:M:182:ARG:HD2	2:O:1092:THR:HG23	1.94	0.48
5:R:429:THR:OG1	6:7:39:DA:H2'	2.14	0.48
2:O:708:VAL:HG11	2:O:794:LEU:CD2	2.44	0.48
3:J:405:GLU:HB2	3:J:408:VAL:HG23	1.94	0.48
2:O:551:HIS:CB	2:O:554:HIS:CE1	2.96	0.48
3:P:1151:LYS:C	3:P:1153:PRO:HD3	2.34	0.48
3:J:1360:GLY:O	3:J:1363:TYR:HB3	2.14	0.48
1:H:74:VAL:HG22	1:H:133:LEU:HD23	1.96	0.48
3:J:185:ILE:H	3:J:185:ILE:HG13	1.27	0.48
1:G:91:ARG:HD2	1:G:124:VAL:HG21	1.86	0.48
1:G:82:LEU:HA	1:G:85:LEU:CD1	2.43	0.48
3:P:1141:VAL:HG13	3:P:1145:PHE:CE2	2.49	0.48
2:O:1142:ARG:HG3	2:O:1161:LEU:HD21	1.95	0.48
3:D:611:ILE:HG22	3:D:612:LEU:CD2	2.43	0.48
3:D:278:ARG:O	3:D:282:LEU:HG	2.14	0.48
2:O:374:GLU:OE1	5:R:99:ARG:CD	2.62	0.48
3:D:124:ILE:HG13	3:D:124:ILE:H	1.25	0.48
2:I:815:SER:OG	3:J:461:PHE:CD2	2.67	0.48
2:I:451:ARG:HG2	2:I:451:ARG:HH11	1.79	0.48
7:5:6:DG:C4	7:5:7:DC:C4	3.02	0.48
3:P:1155:ILE:CD1	3:P:1190:ILE:HG12	2.44	0.48
2:C:363:LEU:HA	2:C:366:ILE:HD12	1.94	0.48
3:J:92:VAL:O	3:J:93:THR:HG23	2.14	0.48
3:J:97:VAL:HG12	3:J:101:ARG:CG	2.44	0.48
4:K:70:GLN:HG3	4:K:73:GLN:HE22	1.79	0.48
3:P:1062:LEU:HD13	3:P:1066:GLU:OE1	2.13	0.48
2:C:151:ARG:NH1	2:C:445:ILE:HG23	2.29	0.48
1:G:179:PRO:O	1:G:208:ASN:ND2	2.47	0.48
2:O:705:GLU:OE1	2:O:705:GLU:N	2.46	0.48
2:C:974:ARG:HD3	2:C:1014:LEU:HD11	1.95	0.48
4:Q:86:ILE:HG23	4:Q:90:ARG:HH11	1.79	0.48
3:J:57:PHE:CD2	3:J:57:PHE:N	2.81	0.48
5:F:95:THR:O	5:F:97:PRO:HD3	2.14	0.48
3:J:22:ILE:HG13	3:J:1319:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1265:THR:OG1	3:D:1303:SER:OG	2.29	0.48
5:F:456:MET:O	5:F:459:THR:OG1	2.30	0.48
5:R:587:ILE:N	5:R:587:ILE:HD13	2.29	0.48
3:P:544:LEU:HA	3:P:574:VAL:HB	1.94	0.48
2:I:90:VAL:CG1	2:I:91:THR:N	2.76	0.48
3:P:419:HIS:CE1	3:P:477:GLN:CD	2.88	0.48
1:N:44:ARG:N	1:N:47:LEU:HD12	2.29	0.48
3:P:820:ILE:HD11	3:P:1230:THR:HB	1.96	0.48
1:M:85:LEU:HD21	1:M:130:ILE:CG2	2.40	0.48
2:O:1104:PRO:CG	3:P:725:MET:HE1	2.44	0.48
1:N:224:LEU:CD1	1:N:224:LEU:O	2.49	0.48
2:I:122:VAL:HG21	2:I:493:ILE:HD12	1.94	0.48
2:I:1144:PHE:CZ	2:I:1201:LEU:HG	2.49	0.48
5:L:84:LEU:HG	5:L:107:THR:HG22	1.96	0.48
2:I:949:GLU:OE2	2:I:1036:ILE:HG22	2.13	0.48
3:P:297:ARG:NH1	5:R:100:MET:HB2	2.29	0.48
3:P:126:LEU:HD22	3:P:216:LYS:HZ1	1.78	0.48
5:R:434:TRP:CZ2	6:7:36:DT:H73	2.48	0.48
3:J:725:MET:HE3	3:J:732:GLY:N	2.29	0.48
3:D:68:TYR:HA	3:D:92:VAL:CG1	2.44	0.48
3:P:646:ILE:HA	3:P:647:PRO:HD2	1.41	0.48
1:H:158:ARG:CD	1:H:172:LEU:HD11	2.42	0.48
2:O:521:LEU:CD2	2:O:686:GLN:HB3	2.43	0.48
6:7:58:DG:N2	7:8:6:DG:C2	2.82	0.48
3:P:416:ILE:HG22	3:P:417:ARG:N	2.28	0.48
3:P:1319:PHE:CE2	3:P:1340:LYS:HB3	2.48	0.48
5:F:119:ILE:H	5:F:119:ILE:HD12	1.78	0.48
4:E:41:GLU:HG2	4:E:43:ASN:N	2.28	0.48
2:O:548:ARG:HH12	3:P:788:LEU:CD2	2.27	0.48
2:O:269:ILE:O	2:O:269:ILE:HG22	2.13	0.48
2:C:1214:ASP:HB2	2:C:1221:PHE:CZ	2.49	0.48
1:M:39:LEU:C	1:M:43:LEU:CG	2.77	0.47
2:C:715:THR:HB	2:C:784:ALA:O	2.14	0.47
3:J:842:ARG:NH1	3:J:1254:GLU:OE2	2.38	0.47
2:C:1289:GLU:OE2	3:D:472:LEU:CB	2.60	0.47
3:D:886:VAL:HG13	3:D:1258:ARG:HA	1.95	0.47
7:5:4:DC:C2	7:5:5:DC:C4	3.02	0.47
2:C:1061:GLN:CB	2:C:1062:PRO:CD	2.92	0.47
3:J:523:GLU:HA	3:J:547:ARG:O	2.14	0.47
2:I:34:SER:CB	2:I:457:GLY:H	2.26	0.47
1:M:112:ALA:HB3	1:M:126:PRO:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1335:ILE:HG22	3:J:22:ILE:CG2	2.45	0.47
2:C:1247:SER:HA	3:D:349:TYR:HA	1.97	0.47
1:G:81:ILE:H	1:G:81:ILE:HG13	1.41	0.47
3:D:923:ILE:O	3:D:926:PRO:HD2	2.14	0.47
3:P:797:THR:CG2	3:P:924:GLY:CA	2.68	0.47
3:J:320:ASN:CG	3:J:321:LYS:N	2.66	0.47
3:J:298:MET:SD	5:L:406:GLN:HG3	2.54	0.47
2:O:149:LEU:CD1	2:O:451:ARG:HB3	2.42	0.47
2:O:1101:LEU:O	3:P:731:ARG:HG2	2.14	0.47
1:H:61:ILE:CD1	1:H:171:LEU:HD11	2.45	0.47
3:J:797:THR:HG23	3:J:924:GLY:CA	2.32	0.47
3:P:579:LEU:HA	3:P:579:LEU:HD23	1.62	0.47
3:J:786:THR:HA	3:J:935:PHE:HD2	1.79	0.47
3:J:1174:ARG:HE	3:J:1189:MET:HE3	1.79	0.47
2:O:564:PRO:HB3	8:9:13:GTP:C5'	2.44	0.47
6:4:47:DC:C2	6:4:48:DA:C5	3.01	0.47
3:D:1101:LEU:HD13	3:D:1107:VAL:HG21	1.96	0.47
4:E:61:ASN:O	4:E:64:LEU:HB2	2.14	0.47
2:C:1025:PHE:HA	2:C:1028:LYS:HD2	1.97	0.47
2:O:90:VAL:HG11	5:R:476:ARG:HH22	1.79	0.47
3:J:68:TYR:OH	3:J:94:GLN:HG3	2.14	0.47
1:G:115:ILE:HD12	1:G:123:ILE:CD1	2.44	0.47
3:D:1109:LEU:HD13	3:D:1115:ILE:CG2	2.42	0.47
5:F:453:PRO:HG2	6:1:31:DT:O5'	2.14	0.47
3:J:587:LEU:HG	3:J:612:LEU:HD11	1.95	0.47
6:4:21:DC:H2''	6:4:22:DC:C6	2.49	0.47
3:J:295:GLU:HA	3:J:295:GLU:OE1	2.13	0.47
3:P:582:ILE:HD13	3:P:582:ILE:N	2.29	0.47
2:I:693:LEU:O	2:I:693:LEU:HD12	2.13	0.47
2:C:931:VAL:HG13	2:C:1052:VAL:HG13	1.95	0.47
3:J:127:LEU:CD1	3:J:227:PHE:CE2	2.97	0.47
5:R:590:ILE:HG12	5:R:593:LYS:HZ2	1.76	0.47
2:C:1281:TYR:CE1	3:D:431:ARG:HD2	2.49	0.47
2:O:433:ILE:O	2:O:436:ARG:HB3	2.13	0.47
2:O:524:ILE:HD11	2:O:712:SER:CB	2.13	0.47
1:M:66:HIS:HE1	2:O:929:ILE:HG12	1.78	0.47
2:C:91:THR:HG23	2:C:137:VAL:O	2.14	0.47
6:4:43:DT:H2'	6:4:44:DG:O4'	2.14	0.47
5:F:385:ARG:C	5:F:388:ILE:HG22	2.33	0.47
3:D:521:LYS:HZ3	3:D:541:LEU:HD23	1.79	0.47
5:F:117:ILE:HG23	5:F:421:TYR:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:476:LYS:HA	2:I:479:LEU:HD12	1.96	0.47
3:J:141:PHE:HB3	3:J:293:ARG:HD3	1.96	0.47
2:I:710:VAL:HG13	2:I:717:VAL:HG21	1.96	0.47
3:P:57:PHE:HB3	3:P:98:ARG:HH22	1.80	0.47
5:L:423:ARG:HB3	5:L:425:TYR:HD2	1.79	0.47
2:O:590:PRO:HB3	2:O:605:TYR:CZ	2.49	0.47
3:J:1157:ALA:O	3:J:1223:LEU:HD13	2.14	0.47
3:P:1366:HIS:O	3:P:1370:MET:HG2	2.13	0.47
2:I:705:GLU:OE1	2:I:705:GLU:N	2.47	0.47
3:J:363:LEU:CD2	3:J:618:VAL:HG13	2.44	0.47
3:J:332:LYS:NZ	3:J:1329:THR:HG23	2.27	0.47
1:A:44:ARG:HG3	1:A:183:ILE:CD1	2.43	0.47
1:N:56:VAL:HG21	1:N:85:LEU:O	2.15	0.47
5:F:586:ARG:CG	5:F:587:ILE:HD13	2.44	0.47
3:P:1138:LEU:HD23	3:P:1139:PRO:HD3	1.95	0.47
1:G:140:ILE:HG12	1:G:141:SER:N	2.28	0.47
2:I:667:LEU:HD21	2:I:708:VAL:HG21	1.96	0.47
5:L:383:ASN:HD22	5:L:386:LEU:HD22	1.80	0.47
2:O:230:PHE:HE1	2:O:292:ILE:CD1	2.27	0.47
1:M:29:GLU:HB2	1:M:30:PRO:HA	1.95	0.47
3:J:381:ILE:CD1	3:J:412:LEU:HA	2.34	0.47
3:P:264:ASP:OD2	5:R:508:GLU:HB2	2.13	0.47
2:O:689:ALA:HB1	2:O:1233:LEU:HD22	1.97	0.47
3:P:1037:PHE:CE1	3:P:1078:LEU:HD22	2.50	0.47
2:I:575:LEU:HG	2:I:576:SER:O	2.14	0.47
3:J:492:SER:OG	3:J:495:ASN:O	2.31	0.47
2:I:1103:VAL:HB	2:I:1104:PRO:CD	2.44	0.47
5:L:87:VAL:HG11	5:L:103:ARG:CD	2.44	0.47
3:J:262:THR:O	5:L:507:MET:HB3	2.14	0.47
2:I:302:ILE:HG22	2:I:309:LEU:HD22	1.96	0.47
3:J:978:ARG:CB	3:J:1212:ASP:HB3	2.44	0.47
1:M:104:LYS:HG3	1:M:105:SER:N	2.29	0.47
5:L:124:GLU:OE2	5:L:421:TYR:HE1	1.97	0.47
3:J:784:ALA:O	3:J:788:LEU:HG	2.14	0.47
2:O:974:ARG:O	2:O:978:VAL:HG23	2.15	0.47
2:I:596:ASP:N	2:I:596:ASP:OD1	2.48	0.47
3:P:1209:VAL:HG12	3:P:1209:VAL:O	2.13	0.47
2:C:23:ASP:OD1	2:C:23:ASP:N	2.46	0.47
3:D:693:VAL:HG11	3:D:743:MET:HE3	1.96	0.47
5:L:275:VAL:O	5:L:278:ASP:HB2	2.15	0.47
2:C:1134:GLN:O	2:C:1136:GLN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:562:ARG:HD2	5:L:571:TYR:O	2.14	0.47
2:C:682:GLY:O	2:C:686:GLN:HG3	2.14	0.47
2:C:1268:GLN:NE2	3:D:351:GLY:C	2.65	0.47
3:D:478:LEU:HB2	4:E:20:VAL:HG13	1.90	0.47
2:O:1299:ASN:O	2:O:1302:THR:HG23	2.14	0.47
2:I:1326:LEU:CD2	3:J:342:LEU:HD11	2.45	0.47
3:D:135:ILE:H	3:D:135:ILE:HG13	1.28	0.47
2:O:1223:ARG:CD	3:P:636:GLY:C	2.83	0.47
2:I:1187:PHE:CD1	3:J:769:VAL:HA	2.49	0.47
3:D:619:ILE:HG22	3:D:620:PHE:HA	1.95	0.47
1:A:29:GLU:OE1	1:A:200:LYS:HB3	2.14	0.47
3:J:515:ARG:NH1	3:J:724:MET:HG2	2.29	0.47
3:D:449:LEU:HG	3:D:450:HIS:N	2.27	0.47
2:O:340:ASP:CG	2:O:341:LEU:H	2.18	0.47
1:A:66:HIS:HB3	2:C:927:THR:HG21	1.96	0.47
2:O:1252:SER:HB2	2:O:1259:LEU:HD23	1.95	0.47
2:O:1309:VAL:HG13	3:P:383:GLY:CA	2.41	0.47
2:C:1269:ARG:NH2	3:D:339:ARG:O	2.48	0.47
5:F:118:ASP:HB2	5:F:119:ILE:HD12	1.97	0.47
3:P:160:LEU:HA	3:P:164:GLN:OE1	2.14	0.47
3:D:701:LEU:HD11	3:D:720:ASN:CG	2.35	0.47
3:D:610:ARG:HH22	3:D:901:ARG:HH12	1.63	0.47
3:P:1267:VAL:O	3:P:1268:ASN:HB2	2.14	0.47
3:D:1095:MET:SD	3:D:1173:ARG:NH2	2.86	0.47
3:P:869:CYS:O	3:P:873:GLU:HG3	2.13	0.47
5:F:592:ALA:HA	5:F:595:LEU:HD12	1.96	0.47
3:D:395:LYS:HD3	3:D:396:ALA:N	2.29	0.47
3:P:363:LEU:HG	3:P:487:THR:CG2	2.45	0.47
3:D:1351:VAL:HG12	3:D:1352:ILE:HG13	1.96	0.47
2:C:1277:ALA:HB3	3:D:434:ILE:HD12	1.96	0.47
3:P:1233:ILE:O	3:P:1237:VAL:CG2	2.57	0.47
3:P:335:GLN:HE22	5:R:518:HIS:CD2	2.33	0.47
3:J:46:TYR:HD2	5:L:500:ILE:HD11	1.80	0.47
3:D:265:LEU:O	3:D:269:TYR:HD2	1.98	0.47
2:C:1243:MET:HG3	3:D:372:MET:HE2	1.97	0.47
1:H:48:LEU:HD21	1:H:183:ILE:HG22	1.95	0.47
5:F:385:ARG:HA	5:F:388:ILE:HG22	1.97	0.47
2:I:581:THR:HG22	2:I:587:LEU:HD23	1.96	0.47
1:H:178:SER:HA	1:H:179:PRO:HD2	1.61	0.47
2:I:387:ASN:CA	2:I:391:SER:HB2	2.45	0.47
3:D:826:ILE:HA	3:D:831:VAL:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:27:PRO:O	3:D:31:ARG:HG3	2.14	0.47
3:P:1246:VAL:O	3:P:1246:VAL:HG12	2.14	0.47
3:P:812:ASP:N	3:P:812:ASP:OD1	2.47	0.47
5:L:585:GLU:OE1	5:L:585:GLU:O	2.33	0.47
2:O:971:LEU:HD12	2:O:1014:LEU:HD22	1.97	0.47
1:B:112:ALA:HB3	1:B:126:PRO:HA	1.96	0.47
3:D:744:ARG:NH2	3:D:940:ALA:HB2	2.29	0.47
3:P:138:VAL:HG12	3:P:139:LEU:N	2.30	0.47
1:N:187:VAL:HG12	1:N:201:LEU:CD1	2.44	0.47
1:A:45:ARG:HD3	1:B:38:THR:CB	2.42	0.47
1:B:224:LEU:CG	1:B:225:ALA:N	2.74	0.47
3:D:401:VAL:HG13	3:D:408:VAL:HG11	1.96	0.47
3:J:501:VAL:CG1	3:J:502:PRO:N	2.77	0.47
1:A:43:LEU:C	1:A:47:LEU:HD12	2.34	0.47
2:I:538:LEU:N	2:I:538:LEU:CD2	2.66	0.47
2:I:511:LEU:CD1	2:I:535:PRO:HD2	2.42	0.47
2:C:1273:MET:O	2:C:1276:TRP:HB2	2.12	0.47
2:C:1331:ARG:HG3	2:C:1337:ILE:HG23	1.97	0.47
2:I:32:LEU:HD23	2:I:130:MET:HE3	1.95	0.47
2:O:228:VAL:HG11	2:O:239:MET:CE	2.45	0.47
2:I:164:THR:O	2:I:165:HIS:CB	2.62	0.47
5:F:557:LYS:O	5:F:561:MET:HG3	2.14	0.47
2:C:1295:SER:HB3	2:C:1296:ASP:OD1	2.15	0.47
2:O:727:VAL:CG2	2:O:773:LEU:HD13	2.24	0.47
6:4:13:DC:H2''	6:4:14:DT:OP2	2.14	0.47
2:O:161:LYS:CE	2:O:161:LYS:CA	2.61	0.47
3:D:1156:LEU:HD21	3:D:1209:VAL:HA	1.91	0.47
2:O:1128:ILE:HG22	2:O:1132:LEU:CD1	2.42	0.47
3:D:786:THR:HG22	3:D:787:ALA:H	1.80	0.47
2:C:693:LEU:HB2	2:C:831:ILE:HD11	1.97	0.47
3:P:643:ASP:CA	3:P:720:ASN:HD21	2.27	0.47
2:I:187:GLU:OE2	2:I:197:ARG:NE	2.48	0.47
2:I:1292:THR:HG23	2:I:1293:VAL:HG22	1.95	0.47
1:M:231:PHE:HE1	1:N:28:LEU:HG	1.79	0.47
1:M:58:GLU:HG2	1:M:172:LEU:HD13	1.96	0.47
3:J:422:LEU:O	3:J:468:VAL:HG13	2.15	0.47
2:O:530:ILE:CD1	2:O:558:VAL:CG2	2.93	0.47
3:P:261:ALA:HA	5:R:505:ILE:O	2.14	0.47
6:7:19:DA:C2	7:8:45:DG:C2	3.03	0.47
2:O:689:ALA:HB1	2:O:1233:LEU:HD13	1.96	0.47
6:4:50:DT:H6	6:4:50:DT:C3'	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:480:ALA:HA	3:J:484:MET:CG	2.44	0.47
5:R:592:ALA:HA	5:R:595:LEU:HD12	1.95	0.47
1:H:14:VAL:HG21	1:H:29:GLU:CG	2.40	0.47
3:D:40:LYS:HZ1	3:D:53:ARG:HE	1.62	0.47
3:D:849:LEU:CG	3:D:850:LYS:H	2.28	0.47
3:J:1029:THR:HG23	3:J:1121:LEU:HG	1.94	0.47
2:I:988:LYS:O	2:I:992:LEU:HB2	2.14	0.47
2:O:413:GLU:O	2:O:413:GLU:HG3	2.14	0.47
3:J:596:LEU:CD2	3:J:600:ALA:HB3	2.45	0.47
3:D:1274:PHE:O	3:D:1275:LEU:CB	2.62	0.47
3:P:847:ASP:OD2	3:P:859:PRO:HA	2.15	0.47
2:I:1225:VAL:HA	3:J:638:SER:OG	2.15	0.47
5:L:345:GLN:O	5:L:348:GLU:HB2	2.15	0.47
3:J:536:LEU:HD22	3:J:541:LEU:CD1	2.44	0.47
3:P:339:ARG:NH2	3:P:1325:PHE:O	2.48	0.47
2:C:38:PHE:CE1	2:C:461:GLU:HA	2.49	0.47
2:I:1190:ALA:O	2:I:1195:ILE:HD11	2.15	0.47
3:P:427:PRO:HD3	8:9:16:U:O2'	2.14	0.47
5:F:299:LYS:HD2	5:F:299:LYS:N	2.29	0.47
2:I:212:ALA:HB3	2:I:385:PHE:CZ	2.50	0.47
2:C:1242:LYS:HD3	3:D:465:GLN:NE2	2.30	0.47
1:H:37:HIS:O	1:H:41:ASN:HB3	2.15	0.47
3:P:811:GLU:O	3:P:895:CYS:HA	2.15	0.47
3:D:930:LEU:HB2	3:D:1134:ILE:HD11	1.96	0.47
3:J:233:LYS:HE3	3:J:235:GLU:OE2	2.14	0.47
1:M:31:LEU:HD11	1:M:39:LEU:CD1	2.45	0.47
1:A:46:ILE:HD12	1:A:224:LEU:HB2	1.95	0.47
2:C:1087:TYR:N	2:C:1087:TYR:CD1	2.82	0.47
2:C:448:LEU:HB2	2:C:608:ALA:HB1	1.92	0.47
3:J:1254:GLU:HA	3:J:1257:VAL:CG2	2.45	0.47
3:P:424:ASN:O	3:P:466:MET:HE2	2.14	0.47
3:D:1344:LEU:HD11	3:D:1353:VAL:HG21	1.96	0.47
2:C:1257:GLN:OE1	3:D:346:ARG:HG2	2.15	0.47
5:L:387:VAL:HG23	5:L:412:LEU:CD2	2.44	0.47
5:R:91:ILE:HD11	5:R:103:ARG:HH22	1.80	0.47
2:C:1108:ASN:C	2:C:1109:ILE:HD13	2.35	0.47
2:I:21:VAL:HG11	2:I:592:ARG:CD	2.43	0.47
3:D:1148:ARG:HG2	6:1:55:DC:OP1	2.14	0.47
2:I:575:LEU:HD11	2:I:579:ALA:CB	2.45	0.47
2:O:1269:ARG:NH1	3:P:340:GLN:CG	2.74	0.47
2:C:1113:LEU:HA	3:D:641:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:465:ARG:HH12	7:8:27:DA:C5'	2.27	0.47
2:I:765:ILE:HG22	2:I:765:ILE:O	2.14	0.47
3:J:83:VAL:HG12	3:J:84:ILE:N	2.29	0.47
7:5:19:DA:C3'	7:5:19:DA:C8	2.98	0.47
2:C:1081:PRO:HB2	2:C:1083:GLU:OE1	2.15	0.47
2:C:185:ASP:OD2	2:C:200:ARG:HD3	2.14	0.47
5:L:585:GLU:OE1	5:L:585:GLU:C	2.53	0.47
5:R:580:PHE:O	5:R:581:ASP:HB2	2.14	0.47
3:P:888:CYS:SG	3:P:894:VAL:HA	2.54	0.47
2:I:1261:GLY:HA2	7:5:17:DG:OP1	2.14	0.47
3:P:364:HIS:CE1	3:P:438:GLU:OE1	2.67	0.47
2:I:723:VAL:O	2:I:734:ILE:HG13	2.14	0.47
5:L:231:THR:HG21	5:L:252:LEU:HD22	1.95	0.47
2:C:775:GLU:OE2	2:C:1171:ARG:NH1	2.48	0.47
5:L:464:ASN:O	5:L:467:SER:HB2	2.13	0.47
2:I:148:GLN:NE2	2:I:511:LEU:HD11	2.30	0.47
3:D:423:LEU:O	3:D:457:TYR:OH	2.26	0.47
3:P:425:ARG:HD2	3:P:457:TYR:HB2	1.93	0.47
3:P:435:GLN:HB3	3:P:437:PHE:CE1	2.50	0.47
2:O:896:THR:OG1	2:O:898:GLU:OE1	2.29	0.47
2:O:242:VAL:HB	2:O:245:ARG:HG3	1.97	0.47
2:C:558:VAL:HG13	2:C:559:CYS:O	2.15	0.47
5:L:387:VAL:HG11	5:L:409:ASN:OD1	2.14	0.47
5:L:401:PHE:O	5:L:405:ILE:CG1	2.50	0.47
3:J:46:TYR:CD2	5:L:500:ILE:CD1	2.98	0.47
2:O:201:ARG:HG3	2:O:370:MET:SD	2.55	0.47
3:P:385:LEU:HD22	3:P:400:MET:HE1	1.97	0.47
3:J:885:VAL:O	3:J:888:CYS:HB3	2.15	0.47
5:R:572:THR:HB	7:8:44:DT:H3'	1.97	0.47
3:J:1046:ILE:HD12	3:J:1059:LEU:HD13	1.97	0.47
6:4:45:DT:H6	6:4:45:DT:H3'	1.80	0.47
2:I:1024:GLU:HG2	2:I:1028:LYS:HE3	1.97	0.47
2:C:960:LEU:HB3	2:C:1025:PHE:CE1	2.50	0.47
2:I:557:ARG:HD3	2:I:587:LEU:CB	2.45	0.47
2:C:367:TYR:CD1	2:C:384:LEU:HD22	2.39	0.47
2:C:950:GLU:O	2:C:953:LEU:HB2	2.14	0.47
3:D:1301:THR:CG2	3:D:1302:TYR:N	2.77	0.47
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.97	0.47
2:I:96:LEU:HB2	2:I:127:ILE:HD11	1.96	0.47
7:8:4:DC:H2"	7:8:5:DC:OP2	2.15	0.47
1:B:158:ARG:NH2	1:B:175:ALA:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:355:ILE:CD1	5:R:355:ILE:H	2.25	0.47
4:Q:28:ARG:O	4:Q:32:VAL:HG23	2.15	0.47
5:F:262:VAL:HG12	5:F:264:LYS:HE3	1.97	0.47
3:J:1154:ALA:HB2	3:J:1213:GLY:CA	2.45	0.47
2:C:1044:PRO:HG3	5:F:498:LEU:HD13	1.96	0.47
5:F:498:LEU:O	5:F:501:ALA:HB3	2.14	0.47
2:I:692:THR:OG1	2:I:693:LEU:N	2.45	0.47
2:C:987:GLU:O	2:C:991:LYS:HD2	2.15	0.47
3:D:705:THR:O	3:D:705:THR:HG22	2.15	0.47
2:O:732:ILE:CD1	2:O:753:LEU:HD11	2.45	0.47
2:I:504:GLU:HA	2:I:504:GLU:OE2	2.14	0.47
3:D:427:PRO:HB3	7:2:13:DA:H2	1.80	0.47
2:O:675:ASP:OD2	2:O:677:ASN:HB2	2.15	0.47
3:P:947:GLU:O	3:P:1022:PRO:HG3	2.15	0.47
5:R:551:LEU:HA	5:R:597:LYS:NZ	2.29	0.47
1:M:25:LYS:HE2	1:M:202:VAL:HG13	1.96	0.47
3:J:377:PHE:C	3:J:379:PRO:HD2	2.35	0.47
2:I:1330:ILE:HG22	2:I:1335:ILE:HB	1.97	0.47
2:C:520:PRO:HG3	2:C:714:VAL:HG11	1.96	0.47
2:C:766:ASN:HD22	2:C:767:GLN:N	2.12	0.47
2:C:788:SER:OG	2:C:796:LEU:HA	2.15	0.47
1:A:227:GLN:C	1:A:231:PHE:CZ	2.88	0.47
2:C:685:MET:HE1	2:C:1073:LYS:CD	2.45	0.47
3:D:470:VAL:CG1	3:D:472:LEU:HD23	2.45	0.47
3:J:30:ILE:O	3:J:30:ILE:HG22	2.15	0.47
2:I:868:SER:HB2	2:I:870:ILE:CD1	2.45	0.47
1:G:16:ILE:HG21	1:G:214:GLU:OE1	2.13	0.47
1:M:58:GLU:HB2	1:M:145:LYS:HD2	1.96	0.47
3:J:785:ASP:HB3	3:J:935:PHE:CE1	2.50	0.47
5:L:554:ARG:CG	5:L:555:GLU:N	2.75	0.47
3:P:259:ARG:HH11	3:P:259:ARG:HB3	1.80	0.47
1:B:124:VAL:HG21	1:B:210:THR:CB	2.45	0.47
6:4:43:DT:C6	6:4:43:DT:H3'	2.50	0.47
3:J:70:CYS:HB2	3:J:88:CYS:SG	2.55	0.47
3:D:875:ASN:O	3:D:876:SER:CB	2.56	0.47
3:P:1134:ILE:HG23	3:P:1134:ILE:O	2.14	0.47
1:H:75:GLN:HE21	1:H:134:THR:HG22	1.79	0.47
3:P:76:LYS:O	3:P:77:ARG:HB2	2.15	0.47
5:L:606:VAL:O	5:L:610:PHE:CD2	2.68	0.47
1:H:193:GLU:O	1:H:194:GLN:CB	2.62	0.47
3:D:34:SER:OG	3:D:104:HIS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:79:GLU:O	4:E:79:GLU:HG2	2.13	0.47
2:I:30:ILE:H	2:I:30:ILE:HG13	1.32	0.47
3:P:107:LEU:HD22	3:P:299:LEU:HD11	1.97	0.47
5:F:585:GLU:O	5:F:585:GLU:OE1	2.33	0.46
1:M:45:ARG:CD	1:N:38:THR:OG1	2.54	0.46
2:C:691:PRO:HB3	2:C:788:SER:CB	2.45	0.46
1:B:224:LEU:C	1:B:224:LEU:HD12	2.35	0.46
3:D:1333:THR:O	3:D:1337:VAL:CG2	2.43	0.46
1:A:47:LEU:HD22	1:A:180:VAL:HG11	1.97	0.46
2:I:208:ILE:CG2	2:I:209:ILE:N	2.77	0.46
3:D:424:ASN:O	3:D:466:MET:CE	2.63	0.46
3:P:432:LEU:HD13	3:P:435:GLN:HE21	1.78	0.46
3:P:499:ILE:CG2	3:P:500:ILE:N	2.69	0.46
3:D:1252:HIS:CB	3:D:1253:ILE:HD12	2.42	0.46
3:J:322:ARG:CD	5:L:510:PRO:HD3	2.46	0.46
2:O:1068:GLY:CA	2:O:1232:MET:HE1	2.44	0.46
3:J:1344:LEU:HD23	3:J:1349:GLU:CB	2.36	0.46
3:J:1349:GLU:O	3:J:1353:VAL:HG13	2.15	0.46
3:D:845:ALA:O	3:D:846:GLU:CB	2.63	0.46
2:I:1061:GLN:HB2	2:I:1062:PRO:CD	2.38	0.46
2:O:976:ARG:HH11	2:O:994:ARG:HH22	1.62	0.46
2:C:840:SER:OG	2:C:1048:LYS:O	2.32	0.46
3:P:34:SER:HA	3:P:102:MET:O	2.15	0.46
5:R:465:ARG:NH1	7:8:27:DA:H5'	2.29	0.46
5:R:299:LYS:O	5:R:302:PHE:HB3	2.15	0.46
3:D:1189:MET:HG2	3:D:1190:ILE:N	2.30	0.46
3:D:228:VAL:CG1	3:D:228:VAL:O	2.63	0.46
2:I:854:ILE:CG2	2:I:857:VAL:HB	2.44	0.46
3:D:410:ASP:N	3:D:410:ASP:OD1	2.47	0.46
5:R:306:PHE:O	5:R:310:GLU:HG3	2.15	0.46
2:O:128:PRO:C	2:O:129:LEU:HD23	2.36	0.46
2:I:801:ARG:HG2	2:I:1229:TYR:CE1	2.50	0.46
2:C:206:ALA:HB1	2:C:429:MET:CE	2.45	0.46
3:P:613:GLY:O	3:P:617:THR:HG23	2.15	0.46
3:J:139:LEU:HG	3:J:139:LEU:H	1.51	0.46
3:D:425:ARG:HB3	3:D:457:TYR:CD1	2.51	0.46
2:C:1330:ILE:HD12	2:C:1337:ILE:CD1	2.43	0.46
2:O:415:GLU:CG	2:O:416:GLY:N	2.78	0.46
7:5:24:DT:H2"	7:5:25:DA:OP1	2.16	0.46
3:D:796:LEU:HG	3:D:797:THR:CA	2.42	0.46
3:J:1259:GLN:O	3:J:1262:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:53:GLU:HB3	4:E:59:ILE:HG12	1.97	0.46
2:I:395:TYR:CE2	2:I:420:LEU:HG	2.51	0.46
3:J:1101:LEU:CD2	3:J:1122:ALA:HB2	2.41	0.46
3:J:238:ILE:HD13	3:J:238:ILE:HA	1.55	0.46
3:P:322:ARG:NH1	3:P:322:ARG:O	2.48	0.46
3:J:1169:THR:OG1	3:J:1174:ARG:CZ	2.64	0.46
3:J:1172:LYS:HD3	3:J:1189:MET:HE2	1.97	0.46
5:R:573:LEU:O	5:R:573:LEU:HD12	2.15	0.46
2:I:151:ARG:HD2	2:I:445:ILE:HG22	1.94	0.46
3:D:147:ILE:HD11	3:D:178:ALA:C	2.35	0.46
3:J:519:ASN:HA	3:J:523:GLU:HB2	1.97	0.46
2:O:668:ILE:CD1	2:O:686:GLN:HE22	2.28	0.46
7:8:33:DC:H2''	7:8:34:DG:OP2	2.15	0.46
4:K:70:GLN:HG3	4:K:73:GLN:NE2	2.30	0.46
1:B:14:VAL:HG21	1:B:29:GLU:CG	2.46	0.46
3:J:536:LEU:HD22	3:J:541:LEU:HD13	1.96	0.46
5:L:421:TYR:C	5:L:421:TYR:CD2	2.88	0.46
5:L:95:THR:O	5:L:97:PRO:HD3	2.15	0.46
3:J:690:ASN:HB2	3:J:743:MET:SD	2.55	0.46
2:C:159:SER:HB3	2:C:442:VAL:HG11	1.96	0.46
2:O:523:GLU:HG3	2:O:527:LYS:HE3	1.98	0.46
2:I:363:LEU:HB3	2:I:381:ALA:HB1	1.98	0.46
2:C:516:ASP:CB	2:C:522:SER:OG	2.63	0.46
1:B:61:ILE:HD13	1:B:64:VAL:CG1	2.36	0.46
2:C:196:VAL:HG21	2:C:206:ALA:HA	1.97	0.46
3:D:422:LEU:HD12	3:D:469:HIS:C	2.36	0.46
4:E:20:VAL:HG12	4:E:21:LEU:HD23	1.98	0.46
2:I:700:VAL:CG1	2:I:1114:GLU:HG3	2.41	0.46
3:D:608:CYS:SG	3:D:617:THR:CG2	2.96	0.46
5:L:426:LYS:HG3	5:L:428:SER:H	1.80	0.46
3:P:511:TYR:CE2	3:P:724:MET:HE3	2.51	0.46
3:D:1224:ARG:CD	3:D:1228:ALA:HB1	2.31	0.46
3:J:795:TYR:CD1	7:5:12:DG:H5'	2.50	0.46
2:C:1048:LYS:C	2:C:1049:ILE:HG13	2.31	0.46
3:P:1155:ILE:HD11	3:P:1194:ARG:HD2	1.97	0.46
3:J:703:THR:HB	3:J:704:GLU:H	1.50	0.46
1:A:86:LYS:HE3	1:A:173:VAL:HG11	1.96	0.46
3:P:34:SER:OG	3:P:104:HIS:ND1	2.36	0.46
5:R:437:GLN:HG2	6:7:35:DC:N4	2.30	0.46
2:C:170:VAL:CG2	3:D:1065:ALA:CB	2.93	0.46
3:D:749:LYS:HE3	3:D:755:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1092:THR:HG22	2:O:1093:PRO:HD2	1.97	0.46
3:D:1161:GLY:HA3	3:D:1179:PRO:HA	1.97	0.46
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.15	0.46
2:C:590:PRO:HB3	2:C:605:TYR:CE1	2.50	0.46
1:B:93:GLN:HB2	1:B:120:ASP:HB2	1.96	0.46
2:C:250:THR:HG22	2:C:251:ALA:N	2.30	0.46
3:J:255:LEU:HD22	3:J:256:ASP:OD1	2.16	0.46
3:J:369:PRO:HB2	3:J:372:MET:HB2	1.98	0.46
5:F:588:ARG:O	5:F:591:GLU:HB3	2.16	0.46
3:J:501:VAL:HG12	3:J:502:PRO:N	2.29	0.46
7:2:25:DA:H2''	7:2:26:DT:OP2	2.16	0.46
2:I:148:GLN:NE2	2:I:511:LEU:HD21	2.31	0.46
3:D:1323:ALA:CB	3:D:1332:LEU:HD21	2.44	0.46
2:C:1272:GLU:HG2	3:D:343:LEU:HB3	1.97	0.46
3:J:805:GLN:CA	3:J:1347:LEU:CD1	2.93	0.46
2:O:901:LEU:HD13	5:R:563:PHE:CE2	2.50	0.46
5:L:455:HIS:CE1	6:4:31:DT:C6	2.97	0.46
3:P:1138:LEU:CB	3:P:1139:PRO:CD	2.71	0.46
2:O:346:TYR:CD2	2:O:433:ILE:HD13	2.50	0.46
7:8:24:DT:OP1	7:8:24:DT:C4'	2.64	0.46
7:8:25:DA:H1'	7:8:26:DT:H5''	1.97	0.46
2:I:1326:LEU:CD2	3:J:342:LEU:HD13	2.45	0.46
3:D:303:VAL:O	3:D:306:LEU:HB3	2.16	0.46
1:G:232:VAL:HG23	1:H:221:ALA:CB	2.45	0.46
2:I:671:LEU:HD23	2:I:1186:VAL:HG11	1.96	0.46
2:I:1304:MET:HG2	2:I:1304:MET:O	2.14	0.46
3:P:584:PRO:HD2	3:P:620:PHE:CD1	2.50	0.46
3:P:620:PHE:O	3:P:624:ILE:CG1	2.51	0.46
1:N:102:LEU:HD12	1:N:114:ASP:O	2.15	0.46
2:O:184:LEU:HA	2:O:184:LEU:HD23	1.41	0.46
5:R:395:THR:HA	5:R:404:LEU:HD12	1.97	0.46
3:D:355:ILE:HD12	3:D:461:PHE:CD1	2.50	0.46
2:I:5:TYR:HA	2:I:8:LYS:CD	2.43	0.46
2:I:1035:LYS:O	2:I:1036:ILE:CG1	2.61	0.46
2:O:1000:LEU:HG	2:O:1000:LEU:O	2.14	0.46
5:F:401:PHE:CA	5:F:404:LEU:HD12	2.42	0.46
6:7:33:DT:H2''	6:7:34:DG:C8	2.50	0.46
3:P:210:SER:HB3	3:P:213:LYS:CD	2.42	0.46
2:C:563:THR:HB	2:C:573:ASN:ND2	2.31	0.46
2:I:896:THR:N	2:I:899:GLU:OE1	2.46	0.46
5:F:323:ASN:O	5:F:324:LYS:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:12:ARG:CZ	2:O:1181:PRO:HB2	2.44	0.46
1:B:82:LEU:HD21	1:B:173:VAL:HG22	1.97	0.46
2:O:1339:LEU:HD13	3:P:17:PHE:CZ	2.50	0.46
3:P:875:ASN:O	3:P:876:SER:CB	2.64	0.46
3:J:449:LEU:HD11	3:J:453:VAL:HG21	1.96	0.46
3:D:34:SER:OG	3:D:104:HIS:ND1	2.42	0.46
1:H:81:ILE:HA	1:H:84:ASN:ND2	2.30	0.46
5:F:235:ILE:CG2	5:F:240:ARG:HD3	2.44	0.46
3:D:410:ASP:O	3:D:413:ASP:HB3	2.15	0.46
2:O:35:PHE:CZ	2:O:129:LEU:HA	2.51	0.46
2:C:269:ILE:HD12	2:C:273:HIS:CG	2.50	0.46
2:I:218:GLU:CD	2:I:299:LYS:HD2	2.35	0.46
3:J:1199:PHE:O	3:J:1200:GLU:HB2	2.15	0.46
2:C:551:HIS:H	2:C:554:HIS:CE1	2.33	0.46
1:N:55:ALA:C	1:N:146:VAL:HG13	2.35	0.46
5:R:587:ILE:HA	5:R:590:ILE:HD12	1.97	0.46
2:C:1323:PHE:CE1	2:C:1327:LEU:CD2	2.91	0.46
3:J:42:GLU:HG2	5:L:451:ARG:HB3	1.96	0.46
3:D:1344:LEU:CD1	3:D:1353:VAL:HG21	2.46	0.46
5:L:583:THR:CG2	5:L:587:ILE:HD11	2.34	0.46
2:I:559:CYS:HG	2:I:661:VAL:HG13	1.71	0.46
3:J:56:LEU:HD23	3:J:56:LEU:HA	1.58	0.46
2:O:1132:LEU:HD21	2:O:1173:ALA:HB1	1.98	0.46
3:J:287:ALA:HB1	3:J:291:ILE:HD12	1.98	0.46
2:O:674:ASP:O	3:P:772:TYR:CZ	2.67	0.46
2:I:167:SER:CA	3:J:1064:SER:HB2	2.41	0.46
3:J:797:THR:HA	3:J:800:LEU:CD1	2.46	0.46
3:P:688:ALA:C	3:P:692:ARG:HD2	2.33	0.46
3:P:318:GLY:HA2	3:P:324:LEU:HD21	1.98	0.46
3:P:923:ILE:O	3:P:926:PRO:CD	2.55	0.46
1:N:83:LEU:CD2	1:N:83:LEU:N	2.79	0.46
2:O:830:THR:OG1	2:O:1058:ARG:HB2	2.16	0.46
3:D:809:VAL:HB	3:D:911:LYS:HA	1.97	0.46
3:P:1270:GLY:H	3:P:1274:PHE:HD2	1.62	0.46
5:R:455:HIS:CE1	7:8:29:DC:C5	3.03	0.46
2:O:867:GLU:CD	2:O:943:LYS:HG2	2.35	0.46
2:I:176:ILE:HD11	2:I:405:PHE:HE2	1.80	0.46
2:I:1184:THR:O	2:I:1184:THR:CG2	2.63	0.46
3:J:1098:GLN:O	3:J:1100:PHE:CE2	2.68	0.46
3:P:223:LEU:O	3:P:227:PHE:HB2	2.15	0.46
2:C:638:SER:O	2:C:639:LYS:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:719:LYS:HD3	2:I:751:TYR:CE1	2.50	0.46
3:D:188:LEU:O	3:D:188:LEU:HG	2.12	0.46
1:G:163:GLU:HG2	1:G:163:GLU:H	1.64	0.46
3:D:558:ASP:CG	3:D:559:ALA:H	2.18	0.46
1:A:41:ASN:O	1:A:45:ARG:HG3	2.16	0.46
5:F:132:CYS:SG	5:F:257:LYS:HD3	2.54	0.46
3:J:130:MET:SD	3:J:135:ILE:CG1	2.95	0.46
2:O:227:LYS:CD	2:O:334:GLU:CD	2.76	0.46
5:L:509:THR:HG23	7:5:22:DA:H61	1.80	0.46
3:J:1145:PHE:CB	3:J:1309:ILE:HD11	2.27	0.46
2:I:1288:GLN:O	2:I:1292:THR:CG2	2.58	0.46
3:J:796:LEU:HD12	3:J:800:LEU:HD21	1.98	0.46
4:Q:30:MET:HE1	4:Q:49:ILE:CD1	2.46	0.46
2:I:298:ALA:CA	2:I:336:LEU:HD21	2.46	0.46
1:N:79:LEU:O	1:N:82:LEU:HB2	2.14	0.46
3:D:79:LYS:NZ	5:F:569:THR:HB	2.31	0.46
2:O:797:GLY:HA3	2:O:1233:LEU:HG	1.97	0.46
4:K:30:MET:HE3	4:K:49:ILE:HG22	1.98	0.46
1:A:158:ARG:O	1:A:162:GLU:HB2	2.15	0.46
2:O:719:LYS:CE	2:O:719:LYS:HA	2.32	0.46
1:A:185:TYR:C	1:A:185:TYR:CD2	2.88	0.46
2:O:255:ILE:HD12	2:O:263:VAL:CB	2.43	0.46
6:1:34:DG:N7	6:1:35:DC:N4	2.64	0.46
3:J:1154:ALA:HB1	3:J:1211:SER:HB2	1.98	0.46
2:O:947:GLU:O	2:O:950:GLU:HB3	2.16	0.46
3:P:824:PRO:HD3	3:P:878:ASP:O	2.16	0.46
2:C:521:LEU:HD12	2:C:521:LEU:O	2.15	0.46
2:C:698:PRO:HD3	2:C:794:LEU:O	2.16	0.46
3:D:379:PRO:CG	3:D:380:PHE:N	2.77	0.46
1:N:56:VAL:CA	1:N:146:VAL:HG22	2.44	0.46
3:P:366:CYS:SG	3:P:437:PHE:CB	3.04	0.46
3:D:162:GLU:HB3	3:D:163:GLU:OE2	2.16	0.46
3:J:481:ARG:O	3:J:485:MET:CB	2.56	0.46
2:I:190:PRO:C	3:J:1069:ALA:HB2	2.35	0.46
3:D:1252:HIS:HB2	3:D:1253:ILE:CD1	2.42	0.46
3:D:894:VAL:HG22	3:D:915:ILE:CD1	2.45	0.46
3:D:1156:LEU:N	3:D:1156:LEU:HD23	2.23	0.46
4:E:31:GLN:OE1	4:E:46:THR:HG21	2.16	0.46
1:N:211:ILE:HG22	1:N:212:ASP:O	2.15	0.46
3:P:452:LEU:HD11	3:P:625:MET:HB2	1.97	0.46
3:P:622:ASP:C	3:P:626:TYR:CD2	2.87	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:822:MET:HE2	3:P:838:ARG:HG2	1.97	0.46
3:D:194:LEU:HB3	3:D:224:LEU:HD21	1.97	0.46
5:F:271:ASN:HA	5:F:274:ARG:HB2	1.98	0.46
3:D:1123:ARG:O	3:D:1125:PRO:HD3	2.15	0.46
3:J:945:ALA:HB1	3:J:1023:HIS:CE1	2.51	0.46
2:C:1256:GLN:OE1	2:C:1256:GLN:HA	2.14	0.46
2:C:799:ASN:O	2:C:799:ASN:ND2	2.48	0.46
5:L:574:GLU:OE1	5:L:574:GLU:HA	2.15	0.46
3:J:449:LEU:HD12	3:J:450:HIS:H	1.81	0.46
3:J:708:ASN:ND2	3:J:712:GLN:O	2.48	0.46
3:D:610:ARG:NH2	3:D:901:ARG:NH1	2.63	0.46
2:C:269:ILE:HD13	2:C:269:ILE:HA	1.76	0.46
3:D:312:ARG:HG2	3:D:313:GLY:N	2.30	0.46
3:P:600:ALA:O	3:P:603:LYS:HB2	2.16	0.46
5:F:407:GLU:CD	5:F:442:SER:HB3	2.36	0.46
3:D:311:ARG:NH2	3:D:1329:THR:HG21	2.31	0.46
5:R:388:ILE:HG23	5:R:389:SER:N	2.30	0.46
2:C:1273:MET:HB2	7:2:14:DC:H4'	1.98	0.46
2:O:178:PRO:CB	2:O:395:TYR:CZ	2.97	0.46
2:O:809:GLY:HA3	3:P:629:PHE:CE1	2.50	0.46
5:R:91:ILE:HD11	5:R:103:ARG:NH1	2.30	0.46
2:O:953:LEU:O	2:O:957:LYS:HG3	2.16	0.46
2:O:1253:LEU:CD2	3:P:251:PRO:HG2	2.46	0.46
2:O:184:LEU:CD2	2:O:198:ILE:HA	2.46	0.46
3:D:879:ALA:O	3:D:880:VAL:CG2	2.64	0.46
5:R:573:LEU:HD23	7:8:45:DG:C8	2.51	0.46
2:O:980:VAL:O	2:O:980:VAL:CG1	2.63	0.46
3:D:198:CYS:SG	3:D:224:LEU:HD13	2.55	0.46
2:C:1028:LYS:O	2:C:1032:LYS:HG2	2.16	0.46
5:F:135:ALA:HB2	5:F:256:PHE:HB3	1.96	0.46
3:J:620:PHE:O	3:J:624:ILE:CD1	2.59	0.46
2:I:935:THR:HA	2:I:1048:LYS:HG2	1.97	0.46
5:F:448:ARG:NE	5:F:503:GLU:OE2	2.48	0.46
2:O:539:THR:HB	2:O:542:ARG:CB	2.46	0.46
3:P:120:LEU:HD23	3:P:121:PRO:HA	1.96	0.46
3:D:971:GLY:O	3:D:972:LYS:HG3	2.16	0.46
1:A:71:LYS:HG2	1:A:72:GLU:N	2.31	0.46
2:I:340:ASP:O	2:I:342:ASP:N	2.49	0.46
3:P:999:TYR:HE2	3:P:1027:VAL:HA	1.81	0.46
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.98	0.46
2:C:843:THR:HB	2:C:845:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:266:PHE:O	5:R:269:LEU:HB2	2.16	0.46
3:J:846:GLU:HG2	3:J:847:ASP:N	2.30	0.46
2:O:882:ILE:HG12	2:O:919:ARG:HG2	1.97	0.46
2:O:1005:GLU:HG2	2:O:1006:GLU:H	1.80	0.46
2:C:1309:VAL:HG13	3:D:383:GLY:N	2.31	0.46
2:C:1253:LEU:HB2	5:F:523:ILE:HG22	1.96	0.46
3:D:425:ARG:HH12	8:3:16:U:C2'	2.24	0.46
2:C:1324:ASN:HA	2:C:1327:LEU:CD1	2.36	0.46
6:7:49:DG:O3'	6:7:50:DT:C4'	2.63	0.46
6:7:52:DT:H1'	6:7:53:DG:C5	2.50	0.46
2:C:230:PHE:CE1	2:C:292:ILE:HD11	2.51	0.46
3:J:1326:GLN:NE2	7:5:11:DA:H4'	2.30	0.46
2:I:1268:GLN:CA	7:5:16:DC:OP1	2.63	0.46
2:I:1029:LEU:C	2:I:1031:ALA:N	2.68	0.46
2:O:996:ARG:O	2:O:997:TRP:HD1	1.99	0.46
3:J:583:VAL:HG12	3:J:584:PRO:O	2.16	0.46
1:A:77:ASP:O	1:A:81:ILE:HD12	2.16	0.46
3:P:492:SER:OG	3:P:495:ASN:O	2.34	0.46
5:F:425:TYR:HD2	6:1:37:DA:N3	2.14	0.46
4:Q:10:VAL:HA	4:Q:19:LEU:HD22	1.97	0.46
2:I:267:ARG:HD3	2:I:268:ARG:H	1.81	0.46
3:P:1075:ARG:HB3	3:P:1193:TRP:HB3	1.98	0.46
3:P:657:ALA:O	3:P:661:VAL:HG23	2.16	0.46
3:J:572:THR:HG21	3:J:589:TYR:OH	2.16	0.46
4:K:54:ILE:HG12	4:K:59:ILE:HB	1.97	0.46
2:I:135:THR:HG22	2:I:144:VAL:CG2	2.46	0.46
2:O:696:ASP:O	2:O:795:ALA:HB1	2.16	0.46
2:C:551:HIS:ND1	2:C:553:THR:OG1	2.20	0.46
5:R:586:ARG:O	5:R:590:ILE:HG13	2.15	0.46
2:C:1270:PHE:CE2	2:C:1278:LEU:HD12	2.51	0.46
2:C:1284:ALA:CB	3:D:1361:THR:HB	2.44	0.46
3:D:422:LEU:O	3:D:423:LEU:HD23	2.16	0.46
2:O:185:ASP:OD2	2:O:200:ARG:NE	2.49	0.46
5:L:262:VAL:HG13	5:L:263:PRO:HD2	1.98	0.46
4:E:46:THR:O	4:E:49:ILE:HB	2.16	0.46
3:P:1052:GLU:CG	3:P:1053:LEU:H	2.13	0.46
2:C:314:ASN:HD22	2:C:351:LEU:HD13	1.77	0.46
2:I:901:LEU:HG	2:I:905:ILE:HD11	1.97	0.46
3:D:245:LEU:HD11	3:D:249:LEU:HD12	1.98	0.46
1:M:86:LYS:HE2	1:M:173:VAL:HG13	1.98	0.46
2:O:979:LEU:CD1	2:O:1000:LEU:HD21	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:141:ILE:CD1	5:F:256:PHE:CE1	2.94	0.46
3:J:147:ILE:O	3:J:188:LEU:HD13	2.16	0.46
2:I:213:LEU:HD22	2:I:422:LYS:HD2	1.97	0.46
3:D:416:ILE:HD12	3:D:441:LEU:HD11	1.98	0.46
1:H:51:MET:HE1	1:H:219:ARG:HB2	1.98	0.46
7:8:37:DA:C2'	7:8:38:DG:OP2	2.64	0.46
3:D:967:VAL:CG2	3:D:973:LEU:HD12	2.45	0.46
3:P:1150:PRO:HG2	3:P:1153:PRO:HB3	1.97	0.46
2:C:252:SER:O	2:C:265:LYS:HG3	2.15	0.46
3:J:736:GLN:HB3	3:J:736:GLN:HE21	1.52	0.46
3:D:367:GLY:HA3	3:D:448:GLN:HB2	1.97	0.46
2:C:911:SER:O	2:C:913:VAL:N	2.49	0.46
2:C:719:LYS:O	2:C:779:ARG:NH1	2.49	0.46
5:F:585:GLU:OE2	5:F:588:ARG:HB3	2.16	0.45
2:C:787:PRO:CG	2:C:788:SER:H	2.28	0.45
2:I:560:PRO:HB2	3:J:776:THR:CG2	2.42	0.45
3:P:1230:THR:O	3:P:1234:VAL:CG2	2.44	0.45
3:D:1194:ARG:NH1	3:D:1211:SER:HB3	2.29	0.45
3:D:1280:VAL:HG13	3:D:1281:GLU:N	2.31	0.45
3:D:275:ARG:HH11	3:D:302:ALA:HB2	1.81	0.45
5:R:399:LEU:HD23	5:R:399:LEU:HA	1.51	0.45
5:L:588:ARG:O	5:L:591:GLU:HB3	2.16	0.45
3:D:555:TYR:HB3	3:D:563:LEU:HD22	1.97	0.45
1:H:178:SER:HB2	3:J:535:ARG:HH12	1.82	0.45
3:J:591:ILE:HG21	3:J:604:MET:HE2	1.98	0.45
2:O:12:ARG:HG3	2:O:12:ARG:NH1	2.30	0.45
3:D:650:LYS:NZ	3:D:765:GLU:OE2	2.49	0.45
3:J:1052:GLU:HG2	3:J:1053:LEU:N	2.32	0.45
3:D:1023:HIS:O	3:D:1024:THR:HB	2.15	0.45
5:R:564:GLY:O	5:R:567:MET:O	2.34	0.45
2:C:1186:VAL:HG12	2:C:1187:PHE:CD2	2.51	0.45
2:I:724:VAL:HG21	2:I:771:VAL:HG21	1.97	0.45
3:J:1243:LEU:HD13	3:J:1244:GLN:HE21	1.81	0.45
3:J:353:SER:HB3	3:J:447:ILE:HD11	1.97	0.45
5:R:386:LEU:HD22	6:7:41:DT:C2	2.52	0.45
2:I:700:VAL:HG22	2:I:1117:LEU:HD23	1.98	0.45
2:C:1273:MET:CB	2:C:1274:GLU:OE1	2.64	0.45
2:C:1291:LEU:O	3:D:345:LYS:HD2	2.16	0.45
2:O:823:VAL:HG12	2:O:1059:ARG:NH1	2.29	0.45
2:I:799:ASN:C	2:I:800:MET:HG2	2.36	0.45
2:O:557:ARG:HD3	2:O:587:LEU:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:557:ARG:HG3	2:O:557:ARG:NH1	2.28	0.45
2:O:657:THR:HG22	3:P:769:VAL:CG2	2.46	0.45
3:D:510:LEU:CD2	3:D:579:LEU:CD1	2.94	0.45
3:P:415:VAL:HA	4:Q:45:LYS:HZ2	1.81	0.45
2:O:559:CYS:HA	2:O:560:PRO:HD2	1.63	0.45
3:P:237:MET:C	3:P:238:ILE:HD13	2.37	0.45
2:C:564:PRO:CB	8:3:13:GTP:O1A	2.65	0.45
3:P:126:LEU:HD22	3:P:216:LYS:HZ2	1.77	0.45
2:O:405:PHE:CD1	2:O:405:PHE:C	2.89	0.45
2:O:737:ASN:HB3	2:O:739:ASP:CG	2.36	0.45
6:4:53:DG:H1'	6:4:54:DA:H5''	1.97	0.45
3:P:536:LEU:HD21	3:P:541:LEU:HB3	1.98	0.45
5:F:540:LEU:O	5:F:544:THR:HG23	2.16	0.45
3:D:721:SER:O	3:D:725:MET:HG3	2.15	0.45
3:D:1179:PRO:CB	3:D:1182:GLY:O	2.64	0.45
1:G:100:LEU:HD11	1:G:121:VAL:HG21	1.97	0.45
3:J:395:LYS:HD3	5:L:609:SER:O	2.16	0.45
6:1:33:DT:H2''	6:1:34:DG:C8	2.51	0.45
3:J:544:LEU:HA	3:J:574:VAL:HB	1.98	0.45
3:D:505:ASP:N	3:D:505:ASP:OD1	2.47	0.45
2:O:253:PHE:CE1	2:O:288:PRO:HD2	2.51	0.45
1:A:71:LYS:CG	1:A:72:GLU:H	2.30	0.45
2:I:1313:HIS:N	2:I:1313:HIS:CD2	2.83	0.45
1:G:86:LYS:HG3	1:G:173:VAL:HG11	1.97	0.45
5:F:309:ASN:OD1	5:F:312:SER:HB3	2.17	0.45
3:J:462:ASP:N	3:J:462:ASP:OD1	2.48	0.45
2:I:478:ARG:NH1	2:I:492:MET:O	2.49	0.45
3:J:530:PRO:HB2	3:J:581:MET:CG	2.47	0.45
3:P:1036:ARG:O	3:P:1079:LYS:N	2.41	0.45
2:C:524:ILE:CG1	2:C:712:SER:HB3	2.45	0.45
3:D:425:ARG:NH2	8:3:16:U:H4'	2.29	0.45
3:D:470:VAL:HB	3:D:472:LEU:HD23	1.89	0.45
2:I:700:VAL:HG21	2:I:1114:GLU:CG	2.43	0.45
3:J:1068:THR:O	3:J:1072:LYS:HE2	2.15	0.45
2:O:196:VAL:CG1	2:O:197:ARG:N	2.79	0.45
7:5:27:DA:H2''	7:5:28:DG:H5'	1.97	0.45
3:D:835:LEU:HD12	3:D:839:VAL:HB	1.98	0.45
3:P:1326:GLN:HE21	7:8:11:DA:H4'	1.82	0.45
3:D:783:LEU:CD1	3:D:783:LEU:H	2.26	0.45
5:L:387:VAL:CG2	5:L:412:LEU:CD2	2.94	0.45
5:L:390:ILE:HG23	5:L:393:LYS:HZ3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1121:ALA:CB	2:C:1182:ILE:HD11	2.35	0.45
3:P:501:VAL:HG12	3:P:502:PRO:CD	2.46	0.45
3:J:349:TYR:CD2	3:J:472:LEU:HD11	2.51	0.45
3:P:271:ARG:NH1	3:P:316:ILE:CG2	2.80	0.45
2:O:830:THR:HG23	2:O:1234:LYS:HZ1	1.81	0.45
5:F:387:VAL:CG1	5:F:388:ILE:N	2.77	0.45
2:I:146:VAL:HG12	2:I:529:ARG:O	2.16	0.45
2:I:1200:LYS:HE3	2:I:1206:THR:CG2	2.39	0.45
7:5:6:DG:C5	7:5:7:DC:N4	2.84	0.45
3:D:849:LEU:HD22	3:D:850:LYS:N	2.31	0.45
5:R:598:LEU:HD23	5:R:598:LEU:HA	1.79	0.45
2:O:800:MET:SD	2:O:828:PHE:HE1	2.38	0.45
2:C:1112:ILE:CG2	3:D:641:ILE:HG12	2.46	0.45
5:F:380:VAL:HG22	5:F:416:VAL:HG21	1.98	0.45
2:I:1116:HIS:CE1	2:I:1226:THR:HG23	2.51	0.45
2:I:1225:VAL:HG22	3:J:638:SER:HB3	1.99	0.45
5:L:481:GLU:O	5:L:485:GLU:HG3	2.16	0.45
4:K:76:GLU:O	4:K:80:LEU:HG	2.16	0.45
3:P:958:ILE:CG2	3:P:982:LEU:HD11	2.47	0.45
2:O:189:ASP:CG	2:O:190:PRO:HD2	2.36	0.45
3:D:151:MET:HG2	3:D:175:GLU:OE1	2.17	0.45
3:J:230:SER:HB2	3:J:1339:GLY:HA3	1.97	0.45
2:C:1172:LEU:O	2:C:1176:LEU:HG	2.16	0.45
1:G:66:HIS:CE1	2:I:929:ILE:HG13	2.51	0.45
5:F:506:SER:O	5:F:509:THR:OG1	2.25	0.45
3:J:332:LYS:NZ	3:J:1329:THR:CG2	2.76	0.45
2:C:12:ARG:CZ	2:C:1181:PRO:HB2	2.46	0.45
1:B:212:ASP:CG	1:B:213:PRO:HD2	2.37	0.45
3:P:337:ARG:CD	3:P:341:ASN:HD22	2.12	0.45
1:A:47:LEU:CD2	1:A:180:VAL:HG11	2.45	0.45
5:L:102:MET:CE	6:4:42:DG:C4	2.99	0.45
2:O:347:ILE:HD13	2:O:347:ILE:N	2.32	0.45
5:L:465:ARG:HH22	7:5:27:DA:H5'	1.82	0.45
2:I:661:VAL:HG11	2:I:665:ALA:CB	2.46	0.45
3:J:298:MET:HE3	5:L:403:ASP:N	2.30	0.45
1:M:8:PHE:CZ	1:N:223:ILE:CG1	2.97	0.45
5:R:446:GLN:O	5:R:447:ALA:CB	2.62	0.45
2:I:1120:ALA:O	2:I:1124:ILE:HG13	2.15	0.45
2:I:1086:PRO:HB2	2:I:1212:LEU:HD22	1.98	0.45
1:B:91:ARG:HB2	1:B:210:THR:HG21	1.98	0.45
2:I:592:ARG:NH1	2:I:592:ARG:HG3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:749:LYS:HE3	3:P:754:ILE:O	2.17	0.45
2:O:1237:HIS:ND1	2:O:1242:LYS:HE3	2.30	0.45
1:B:48:LEU:HD23	1:B:180:VAL:HB	1.98	0.45
3:J:1080:ILE:HD12	3:J:1115:ILE:HD11	1.98	0.45
1:M:32:GLU:CG	1:M:33:ARG:N	2.76	0.45
2:C:878:THR:HG22	2:C:879:GLY:H	1.79	0.45
3:J:140:TYR:CE1	3:J:312:ARG:NH2	2.84	0.45
3:D:952:VAL:HG11	3:D:1011:VAL:CG2	2.46	0.45
2:I:422:LYS:HG2	2:I:422:LYS:H	1.48	0.45
5:R:585:GLU:OE1	5:R:585:GLU:O	2.34	0.45
5:F:153:ALA:O	5:F:155:GLU:N	2.48	0.45
3:J:1011:VAL:HG11	3:J:1017:VAL:HG12	1.98	0.45
1:A:163:GLU:HG3	1:A:164:ASP:N	2.31	0.45
5:R:469:GLN:O	5:R:472:GLN:HG2	2.16	0.45
3:D:114:ILE:CD1	3:D:308:ASP:HB3	2.46	0.45
7:2:27:DA:H2''	7:2:28:DG:H5'	1.98	0.45
1:M:228:LEU:HD13	1:N:225:ALA:HB2	1.98	0.45
1:M:228:LEU:HD21	1:N:221:ALA:HA	1.98	0.45
2:C:206:ALA:C	2:C:209:ILE:HG22	2.29	0.45
2:C:1065:LYS:C	2:C:1066:MET:HG2	2.33	0.45
2:I:668:ILE:HG23	2:I:669:PRO:HD2	1.98	0.45
2:O:149:LEU:CD1	2:O:453:ILE:HD13	2.46	0.45
2:O:888:THR:HG22	2:O:889:PRO:HD2	1.98	0.45
3:P:245:LEU:HG	3:P:249:LEU:HD12	1.98	0.45
2:I:448:LEU:HD12	2:I:557:ARG:HD2	1.98	0.45
3:D:849:LEU:CD1	3:D:850:LYS:H	2.29	0.45
2:C:1269:ARG:NH1	3:D:340:GLN:HG3	2.31	0.45
2:I:241:LEU:HD22	2:I:285:ILE:CD1	2.46	0.45
5:R:503:GLU:CB	5:R:504:PRO:CD	2.93	0.45
2:C:572:ILE:O	2:C:573:ASN:ND2	2.48	0.45
5:R:324:LYS:CB	5:R:325:PRO:HD3	2.47	0.45
5:F:262:VAL:HG11	5:F:264:LYS:HE3	1.99	0.45
2:C:1081:PRO:CB	2:C:1083:GLU:OE1	2.65	0.45
3:P:332:LYS:O	3:P:333:GLY:C	2.54	0.45
3:J:908:ILE:O	3:J:908:ILE:HG22	2.16	0.45
1:N:75:GLN:HE21	1:N:134:THR:HG23	1.82	0.45
2:C:1087:TYR:HE1	2:C:1215:GLY:CA	2.27	0.45
3:D:115:TRP:CZ3	3:D:1329:THR:O	2.70	0.45
3:D:1261:LEU:HD22	3:D:1304:ARG:HB3	1.99	0.45
1:M:228:LEU:O	1:M:232:VAL:HG23	2.16	0.45
2:I:209:ILE:HG23	2:I:210:LEU:HG	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1331:VAL:HG12	3:D:1332:LEU:HD23	1.98	0.45
1:B:100:LEU:HD23	1:B:100:LEU:HA	1.72	0.45
5:L:455:HIS:HD2	5:L:455:HIS:N	1.98	0.45
5:L:452:ILE:HG23	5:L:456:MET:HB2	1.99	0.45
5:L:461:ASN:O	5:L:465:ARG:HG3	2.17	0.45
3:P:1356:LEU:HD13	3:P:1362:GLY:CA	2.46	0.45
3:J:747:MET:HG3	3:J:940:ALA:HB1	1.98	0.45
3:P:635:SER:OG	3:P:636:GLY:N	2.48	0.45
3:D:503:SER:H	3:D:506:VAL:HG21	1.81	0.45
3:P:411:ILE:O	3:P:415:VAL:HG23	2.16	0.45
3:D:1320:ILE:HG13	3:D:1320:ILE:H	1.25	0.45
3:J:811:GLU:HB2	3:J:890:THR:HG23	1.98	0.45
2:O:1309:VAL:HA	3:P:383:GLY:HA3	1.99	0.45
5:L:297:MET:HA	5:L:326:TRP:CH2	2.52	0.45
2:C:670:PHE:CD2	2:C:1113:LEU:HB2	2.52	0.45
2:O:729:ALA:O	2:O:730:SER:CB	2.63	0.45
2:I:634:VAL:O	2:I:644:LEU:HD22	2.16	0.45
3:D:1017:VAL:O	3:D:1018:ALA:HB2	2.17	0.45
2:C:622:ASN:HB3	2:C:630:VAL:CB	2.46	0.45
3:P:1224:ARG:HD3	3:P:1228:ALA:HB1	1.99	0.45
3:P:135:ILE:HG13	3:P:135:ILE:H	1.41	0.45
3:J:367:GLY:HA3	3:J:448:GLN:HB2	1.98	0.45
5:R:110:LEU:HD23	6:7:41:DT:C2	2.51	0.45
3:J:899:TYR:CE1	3:J:915:ILE:HG23	2.48	0.45
2:O:1243:MET:HG2	2:O:1244:HIS:N	2.31	0.45
2:C:1284:ALA:HB3	3:D:1361:THR:HG21	1.98	0.45
3:P:1138:LEU:O	3:P:1141:VAL:HB	2.17	0.45
3:D:337:ARG:CD	3:D:341:ASN:HD22	2.06	0.45
2:I:559:CYS:HA	2:I:560:PRO:HD2	1.78	0.45
2:C:373:GLY:HA2	5:F:87:VAL:HG13	1.99	0.45
2:I:870:ILE:HG13	2:I:944:ARG:HB2	1.98	0.45
2:I:185:ASP:HB2	2:I:197:ARG:HB2	1.98	0.45
2:O:890:LYS:HE2	2:O:893:THR:OG1	2.17	0.45
8:3:13:GTP:H8	8:3:13:GTP:O3A	1.99	0.45
2:C:56:VAL:CG2	2:C:468:LEU:HD13	2.43	0.45
2:C:840:SER:OG	2:C:1048:LYS:N	2.50	0.45
3:J:85:CYS:HB3	3:J:88:CYS:SG	2.57	0.45
2:C:1142:ARG:NH1	2:C:1169:VAL:HG21	2.31	0.45
6:7:32:DA:N6	7:8:30:DA:N6	2.64	0.45
2:O:98:VAL:HB	2:O:124:MET:SD	2.57	0.45
2:C:170:VAL:HG12	2:C:172:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:967:VAL:HG22	3:D:973:LEU:HD12	1.99	0.45
5:F:225:ARG:O	5:F:228:TYR:HB3	2.17	0.45
3:D:891:ASP:N	3:D:891:ASP:OD1	2.50	0.45
1:N:112:ALA:HB1	1:N:123:ILE:HG21	1.97	0.45
2:C:70:TYR:HA	2:C:100:LEU:HD23	1.97	0.45
2:I:222:ASP:OD1	2:I:227:LYS:HE3	2.17	0.45
3:P:759:ILE:HG12	3:P:771:GLN:HG2	1.99	0.45
3:J:65:VAL:HG22	3:J:98:ARG:NH1	2.32	0.45
5:L:506:SER:O	5:L:509:THR:OG1	2.25	0.45
3:D:796:LEU:O	3:D:799:ARG:HB2	2.17	0.45
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.98	0.45
3:D:1280:VAL:HG12	3:D:1281:GLU:O	2.16	0.45
2:I:675:ASP:CB	2:I:1107:MET:HE2	2.34	0.45
3:D:278:ARG:HG3	3:D:278:ARG:HH11	1.81	0.45
3:P:271:ARG:HH12	3:P:316:ILE:CG2	2.27	0.45
3:J:820:ILE:HG22	3:J:821:MET:N	2.31	0.45
3:D:879:ALA:O	3:D:880:VAL:HG23	2.16	0.45
1:G:38:THR:HG21	1:H:42:ALA:HA	1.95	0.45
3:P:807:LEU:HD21	3:P:1259:GLN:HG2	1.99	0.45
5:L:484:ALA:HB2	5:L:494:ILE:HG12	1.99	0.45
3:D:661:VAL:HG12	3:D:665:GLN:NE2	2.32	0.45
3:J:1218:HIS:CD2	3:J:1306:LEU:HB3	2.52	0.45
3:D:974:VAL:HG11	3:D:1028:ILE:CG2	2.45	0.45
7:5:45:DG:H2"	7:5:46:DT:C5'	2.47	0.45
1:A:67:GLU:O	1:A:78:ILE:HB	2.17	0.45
2:I:1044:PRO:CB	5:L:498:LEU:HD13	2.47	0.45
3:D:762:ASN:OD1	3:D:765:GLU:HG3	2.17	0.45
2:C:1111:GLN:O	2:C:1230:MET:HE2	2.16	0.45
2:I:435:ILE:HG12	2:I:440:GLY:HA3	1.97	0.45
3:J:809:VAL:HB	3:J:912:GLY:H	1.82	0.45
3:D:829:GLY:HA2	3:D:995:TYR:CE1	2.52	0.45
5:F:502:LYS:HD2	5:F:502:LYS:HA	1.79	0.45
2:I:351:LEU:HD23	2:I:351:LEU:HA	1.67	0.45
1:A:223:ILE:O	1:A:227:GLN:HG2	2.16	0.45
2:C:448:LEU:CD1	2:C:557:ARG:NH1	2.80	0.45
2:C:437:ASN:N	2:C:437:ASN:OD1	2.47	0.45
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.82	0.45
3:J:1250:ASP:O	3:J:1254:GLU:HG3	2.16	0.45
5:F:551:LEU:CD1	5:F:559:LEU:CD1	2.95	0.45
2:C:1289:GLU:CD	3:D:472:LEU:CB	2.79	0.45
2:O:312:ALA:O	2:O:314:ASN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:465:ARG:NH2	7:5:27:DA:H5'	2.32	0.45
2:I:661:VAL:HG12	2:I:662:SER:N	2.32	0.45
1:G:142:MET:HB3	1:G:142:MET:HE3	1.55	0.45
2:I:106:GLU:HG2	2:I:115:LYS:HD2	1.98	0.45
3:D:133:ARG:HG2	3:D:136:GLU:OE1	2.16	0.45
2:I:870:ILE:HG21	2:I:944:ARG:HD3	1.95	0.45
2:C:237:LEU:HD11	2:C:289:VAL:HG13	1.98	0.45
3:D:530:PRO:CD	3:D:531:LYS:HE2	2.46	0.45
2:I:1107:MET:CG	3:J:740:LEU:HD21	2.46	0.45
2:O:802:VAL:HG22	2:O:1096:ILE:O	2.17	0.45
2:I:1258:PRO:HG2	3:J:346:ARG:C	2.37	0.45
5:L:593:LYS:O	5:L:597:LYS:HG3	2.17	0.45
3:J:515:ARG:HH21	3:J:717:VAL:CB	2.24	0.45
7:8:17:DG:C2	8:9:13:GTP:C6	3.04	0.45
8:3:13:GTP:C8	8:3:13:GTP:O5'	2.70	0.45
2:C:896:THR:OG1	2:C:898:GLU:OE1	2.29	0.45
7:8:23:DT:H6	7:8:23:DT:H5''	1.82	0.45
3:P:1307:LEU:HB2	3:P:1312:ALA:HB2	1.97	0.45
5:R:489:MET:HB3	5:R:490:PRO:HD2	1.99	0.45
3:P:161:THR:H	3:P:164:GLN:NE2	2.15	0.45
2:O:1088:ASP:OD1	2:O:1088:ASP:N	2.47	0.45
1:N:150:ARG:HG3	1:N:150:ARG:O	2.16	0.45
3:P:1350:ASN:HD21	3:P:1366:HIS:CE1	2.35	0.45
3:J:120:LEU:HD13	6:4:57:DC:H5'	1.99	0.45
1:M:191:ARG:O	1:M:191:ARG:HG2	2.16	0.45
2:C:65:ASN:OD1	2:C:66:SER:N	2.50	0.45
3:D:230:SER:OG	3:D:232:ASN:ND2	2.49	0.45
2:C:1284:ALA:O	2:C:1287:LEU:HB3	2.17	0.45
3:D:349:TYR:CB	3:D:470:VAL:CG2	2.90	0.45
2:C:1277:ALA:O	2:C:1281:TYR:CD2	2.70	0.45
3:D:1145:PHE:HZ	3:D:1253:ILE:HG23	1.82	0.45
2:C:559:CYS:HB2	2:C:662:SER:H	1.81	0.45
3:J:279:LEU:HA	3:J:282:LEU:HD12	1.98	0.45
5:L:390:ILE:HG23	5:L:393:LYS:NZ	2.33	0.45
3:J:111:THR:HG23	3:J:112:ALA:H	1.79	0.45
2:I:1270:PHE:CE1	2:I:1274:GLU:HB3	2.52	0.45
4:Q:30:MET:CE	4:Q:49:ILE:HG21	2.47	0.45
3:P:678:ARG:O	3:P:682:VAL:HG23	2.17	0.45
8:9:13:GTP:C8	8:9:13:GTP:O3A	2.55	0.45
3:P:973:LEU:HD23	3:P:1003:LEU:HD12	2.00	0.45
6:4:43:DT:H6	6:4:43:DT:H3'	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:VAL:HG13	1:B:157:THR:HB	1.99	0.45
2:C:1245:ALA:HB1	3:D:375:GLU:CB	2.47	0.45
3:P:382:TYR:HD1	3:P:397:ALA:CB	2.27	0.45
2:C:530:ILE:CD1	2:C:575:LEU:N	2.80	0.45
3:D:331:ILE:CG2	3:D:338:PHE:CE2	2.99	0.45
3:D:192:MET:HE3	3:D:192:MET:HB2	1.95	0.45
3:P:530:PRO:HB2	3:P:581:MET:HG2	1.97	0.45
2:O:592:ARG:NH2	2:O:600:THR:O	2.50	0.45
2:C:58:PRO:HB3	2:C:69:GLN:HG2	1.98	0.45
2:C:15:PHE:HA	2:C:1155:VAL:HG23	1.98	0.45
3:D:664:ILE:HG12	3:D:681:LYS:HZ3	1.82	0.45
5:F:511:ILE:CD1	5:F:519:LEU:HA	2.46	0.45
3:D:705:THR:O	3:D:707:ILE:HG13	2.17	0.45
2:O:1272:GLU:HB3	2:O:1276:TRP:CZ2	2.52	0.45
3:J:285:LEU:HD23	3:J:285:LEU:HA	1.79	0.45
1:M:153:VAL:O	1:M:153:VAL:HG12	2.17	0.45
2:I:469:VAL:O	2:I:472:GLU:HG2	2.17	0.45
2:C:731:ARG:NH1	2:C:752:ASN:OD1	2.50	0.45
1:B:151:GLY:HA2	1:B:178:SER:OG	2.16	0.45
2:O:968:GLU:HG3	2:O:972:PHE:CE1	2.52	0.45
4:Q:15:ASN:OD1	4:Q:16:ARG:N	2.50	0.45
2:I:1275:VAL:HB	2:I:1279:GLU:OE2	2.15	0.44
3:J:135:ILE:O	3:J:139:LEU:CG	2.63	0.44
4:E:20:VAL:O	4:E:21:LEU:HD23	2.17	0.44
5:L:101:TYR:CD2	5:L:101:TYR:C	2.91	0.44
5:L:503:GLU:CB	5:L:504:PRO:HD2	2.44	0.44
2:I:191:LYS:HG2	3:J:1069:ALA:CB	2.46	0.44
2:O:420:LEU:HD23	2:O:420:LEU:HA	1.83	0.44
7:5:22:DA:C1'	7:5:23:DT:OP1	2.63	0.44
1:H:217:ILE:HG22	1:H:218:ARG:N	2.32	0.44
2:O:1223:ARG:HD2	3:P:635:SER:C	2.37	0.44
2:O:804:PHE:HE1	2:O:1103:VAL:CG2	2.29	0.44
1:M:102:LEU:HD21	1:M:130:ILE:CD1	2.47	0.44
3:D:579:LEU:HA	3:D:579:LEU:HD23	1.60	0.44
3:P:503:SER:C	3:P:507:VAL:HG23	2.36	0.44
3:P:265:LEU:HD23	3:P:265:LEU:N	2.31	0.44
3:D:1319:PHE:CD2	3:D:1340:LYS:HD3	2.51	0.44
1:N:79:LEU:H	1:N:79:LEU:HG	1.08	0.44
2:O:340:ASP:HA	2:O:344:GLY:CA	2.40	0.44
3:D:1078:LEU:HD12	3:D:1101:LEU:HD21	1.99	0.44
5:R:97:PRO:HA	5:R:100:MET:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:68:TYR:CA	3:J:92:VAL:CG1	2.93	0.44
1:G:112:ALA:O	1:G:115:ILE:CG1	2.65	0.44
2:C:170:VAL:HG23	3:D:1065:ALA:CA	2.47	0.44
3:J:140:TYR:HE1	3:J:312:ARG:NH2	2.16	0.44
2:I:736:VAL:O	2:I:741:MET:HE2	2.16	0.44
3:P:205:LEU:HD21	3:P:217:LEU:HD12	1.99	0.44
1:G:102:LEU:CD1	1:G:114:ASP:C	2.85	0.44
2:I:948:ILE:O	2:I:951:MET:HB2	2.17	0.44
2:O:942:ASP:O	2:O:945:ALA:HB3	2.16	0.44
5:F:392:LYS:HD3	6:1:43:DT:O3'	2.17	0.44
2:C:800:MET:O	2:C:802:VAL:HG23	2.17	0.44
2:I:103:VAL:HG13	2:I:117:ILE:HG23	1.99	0.44
5:F:266:PHE:O	5:F:270:VAL:HG23	2.17	0.44
3:J:961:SER:O	3:J:962:ASN:HB2	2.16	0.44
3:J:385:LEU:CD2	3:J:391:ALA:HB2	2.33	0.44
1:A:42:ALA:O	1:A:46:ILE:HG13	2.17	0.44
3:D:394:ILE:O	3:D:397:ALA:HB3	2.17	0.44
1:A:51:MET:HB3	1:A:179:PRO:HD2	1.99	0.44
3:P:609:TYR:CD1	3:P:609:TYR:C	2.91	0.44
2:I:169:LYS:HA	3:J:1065:ALA:O	2.18	0.44
2:O:346:TYR:HB2	2:O:347:ILE:HD13	1.99	0.44
3:J:62:PHE:C	3:J:98:ARG:HG3	2.38	0.44
5:R:456:MET:O	5:R:460:ILE:HG13	2.17	0.44
5:F:91:ILE:O	5:F:93:ARG:N	2.46	0.44
2:I:1289:GLU:O	2:I:1293:VAL:HG23	2.16	0.44
2:I:1107:MET:HE3	3:J:763:PHE:CE2	2.52	0.44
2:I:836:LEU:HD23	2:I:836:LEU:HA	1.54	0.44
2:O:698:PRO:HA	2:O:1231:TYR:HE1	1.73	0.44
3:J:1169:THR:OG1	3:J:1174:ARG:NH2	2.50	0.44
3:J:1168:GLU:OE2	3:J:1173:ARG:NH2	2.50	0.44
3:D:697:MET:HB3	3:D:697:MET:HE2	1.61	0.44
2:C:896:THR:HG21	2:C:898:GLU:HB2	1.94	0.44
2:O:363:LEU:HD23	2:O:366:ILE:HD12	1.99	0.44
3:D:872:LEU:HD23	3:D:872:LEU:HA	1.54	0.44
3:P:930:LEU:HB3	3:P:1134:ILE:CG1	2.47	0.44
2:O:120:GLN:NE2	2:O:490:GLN:OE1	2.50	0.44
3:J:179:LYS:CG	3:J:180:MET:H	2.31	0.44
5:R:322:MET:O	5:R:323:ASN:HB2	2.16	0.44
6:4:46:DG:C8	6:4:46:DG:H5"	2.53	0.44
2:I:980:VAL:O	2:I:980:VAL:HG12	2.16	0.44
3:J:530:PRO:HB2	3:J:581:MET:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:393:ASP:N	2:I:393:ASP:OD1	2.50	0.44
3:P:159:ILE:H	3:P:159:ILE:HG13	1.41	0.44
3:D:986:ASP:N	3:D:986:ASP:OD1	2.50	0.44
3:D:979:ASN:HB2	3:D:1197:ASN:HD21	1.82	0.44
2:I:732:ILE:HD11	2:I:769:PRO:HB3	1.99	0.44
3:P:182:ALA:HA	3:P:185:ILE:CD1	2.44	0.44
3:D:141:PHE:CZ	3:D:181:GLY:HA3	2.52	0.44
3:D:281:ARG:O	3:D:285:LEU:HG	2.18	0.44
3:J:915:ILE:HG22	3:J:915:ILE:O	2.16	0.44
4:Q:48:VAL:O	4:Q:51:LEU:HB2	2.17	0.44
2:C:1278:LEU:HD13	2:C:1287:LEU:CA	2.42	0.44
3:D:423:LEU:CB	3:D:466:MET:HE1	2.48	0.44
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.48	0.44
5:F:450:ILE:HG12	5:F:450:ILE:O	2.17	0.44
3:J:739:GLN:HG2	3:J:744:ARG:HG3	1.99	0.44
3:J:513:MET:HE2	3:J:579:LEU:HD21	1.91	0.44
1:G:47:LEU:HA	1:G:51:MET:HG2	1.99	0.44
3:P:584:PRO:HG3	3:P:620:PHE:HB2	1.99	0.44
3:P:1314:LEU:HG	3:P:1314:LEU:H	1.59	0.44
3:J:105:ILE:HD11	3:J:244:VAL:HG21	1.98	0.44
2:O:1230:MET:SD	2:O:1232:MET:HE3	2.56	0.44
2:C:1106:ARG:O	2:C:1107:MET:HB2	2.17	0.44
3:D:697:MET:HE3	3:D:738:ARG:HA	1.99	0.44
2:C:496:LYS:CB	2:C:497:PRO:CD	2.95	0.44
5:F:505:ILE:HA	5:F:505:ILE:HD13	1.75	0.44
2:O:719:LYS:HE2	2:O:719:LYS:CA	2.41	0.44
2:O:409:LEU:HD23	2:O:431:LYS:HD2	1.99	0.44
3:P:1028:ILE:CG2	3:P:1118:GLY:HA2	2.48	0.44
2:I:1237:HIS:C	2:I:1238:LEU:HD23	2.38	0.44
3:P:1172:LYS:HD3	3:P:1189:MET:CE	2.47	0.44
2:C:267:ARG:HD3	2:C:268:ARG:N	2.32	0.44
3:P:1311:LYS:H	3:P:1311:LYS:HG3	1.48	0.44
1:A:91:ARG:HB2	1:A:122:GLU:HB3	2.00	0.44
3:P:491:LEU:HB3	3:P:496:GLY:O	2.18	0.44
3:J:224:LEU:O	3:J:227:PHE:CB	2.66	0.44
1:A:47:LEU:O	1:A:51:MET:HB2	2.17	0.44
5:R:386:LEU:HD13	6:7:41:DT:C6	2.52	0.44
3:P:793:SER:O	3:P:796:LEU:HB3	2.18	0.44
2:I:1326:LEU:HD21	3:J:342:LEU:CD1	2.46	0.44
2:C:538:LEU:CD2	2:C:538:LEU:N	2.69	0.44
5:L:387:VAL:HA	5:L:435:ILE:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:298:MET:SD	5:L:406:GLN:CG	3.05	0.44
2:C:870:ILE:HB	2:C:944:ARG:HD3	1.99	0.44
3:J:825:VAL:HG21	3:J:1242:ARG:HH12	1.82	0.44
3:D:1320:ILE:HD11	3:D:1342:ASP:CB	2.48	0.44
1:B:78:ILE:HA	1:B:81:ILE:HD12	1.99	0.44
3:P:303:VAL:HG12	3:P:307:LEU:HD11	2.00	0.44
2:O:960:LEU:HD22	2:O:1025:PHE:HD1	1.81	0.44
2:I:1024:GLU:HG2	2:I:1028:LYS:CE	2.48	0.44
5:R:121:LYS:NZ	5:R:421:TYR:OH	2.33	0.44
3:D:70:CYS:HA	3:D:90:VAL:HG11	1.98	0.44
2:O:13:LYS:HE3	2:O:1149:TYR:O	2.16	0.44
5:R:414:LYS:HD3	5:R:434:TRP:HZ3	1.79	0.44
3:D:555:TYR:HB3	3:D:563:LEU:HB3	1.98	0.44
3:D:325:LYS:HE2	3:D:330:MET:HA	1.99	0.44
3:J:97:VAL:CG1	3:J:101:ARG:CD	2.95	0.44
1:G:112:ALA:O	1:G:115:ILE:HG13	2.18	0.44
2:O:883:LEU:HD11	2:O:920:VAL:HG22	1.99	0.44
2:C:901:LEU:HG	2:C:905:ILE:HD11	1.99	0.44
2:I:1161:LEU:O	2:I:1163:THR:N	2.51	0.44
2:I:70:TYR:CZ	2:I:72:SER:HA	2.53	0.44
2:I:1205:PRO:HG2	2:I:1210:ILE:CD1	2.48	0.44
3:D:416:ILE:HD13	3:D:441:LEU:HG	1.98	0.44
7:5:18:DT:H2'	7:5:19:DA:H5'	1.99	0.44
3:D:505:ASP:O	3:D:508:LEU:HB3	2.18	0.44
3:P:960:LEU:CD2	3:P:982:LEU:HD13	2.48	0.44
5:L:333:VAL:O	5:L:333:VAL:HG13	2.17	0.44
3:D:169:LEU:HD12	3:D:173:GLY:HA2	1.99	0.44
3:P:163:GLU:OE2	5:R:81:ALA:HB1	2.18	0.44
4:Q:17:PHE:N	4:Q:17:PHE:CD1	2.84	0.44
1:B:140:ILE:HA	1:B:140:ILE:HD12	1.74	0.44
2:C:844:LYS:NZ	3:D:47:ARG:HD3	2.32	0.44
2:C:1305:TYR:HA	2:C:1308:ILE:HD12	1.99	0.44
3:J:227:PHE:CE1	3:J:234:PRO:HD3	2.49	0.44
1:A:35:PHE:CE2	1:B:50:SER:OG	2.62	0.44
1:N:228:LEU:HD22	1:N:228:LEU:O	2.18	0.44
5:R:390:ILE:HD12	5:R:435:ILE:HD12	1.99	0.44
2:I:208:ILE:HG23	2:I:209:ILE:N	2.32	0.44
3:D:1357:ILE:HA	3:D:1358:PRO:HD3	1.80	0.44
2:C:1277:ALA:O	2:C:1281:TYR:HD2	2.01	0.44
3:D:899:TYR:C	3:D:899:TYR:CD2	2.91	0.44
2:I:1326:LEU:HA	2:I:1326:LEU:HD12	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:167:ASP:OD2	5:L:262:VAL:HG21	2.17	0.44
2:I:1187:PHE:CE1	3:J:769:VAL:HA	2.53	0.44
3:P:698:MET:SD	3:P:737:ILE:CD1	3.05	0.44
3:P:583:VAL:HG12	3:P:584:PRO:O	2.17	0.44
2:I:495:ALA:HA	2:I:498:ILE:HD12	1.98	0.44
1:M:61:ILE:HG12	1:M:142:MET:HB3	1.98	0.44
3:P:343:LEU:HD23	3:P:1351:VAL:HG11	2.00	0.44
2:O:1234:LYS:HE2	2:O:1238:LEU:HD21	2.00	0.44
3:D:536:LEU:HD21	3:D:541:LEU:O	2.18	0.44
3:P:1190:ILE:HD13	3:P:1196:LEU:HD11	1.99	0.44
2:C:805:MET:HE2	2:C:806:PRO:O	2.17	0.44
1:H:75:GLN:NE2	1:H:134:THR:HG22	2.33	0.44
2:O:1280:ALA:HB3	3:P:431:ARG:HB3	1.99	0.44
3:J:694:SER:HA	3:J:697:MET:HE1	1.99	0.44
2:I:11:ILE:O	2:I:1181:PRO:HG2	2.17	0.44
5:L:302:PHE:HE1	5:L:315:TRP:CH2	2.36	0.44
3:P:1046:ILE:CD1	3:P:1059:LEU:HD22	2.47	0.44
2:C:1101:LEU:HD11	3:D:508:LEU:CD2	2.47	0.44
3:P:51:PRO:HB3	3:P:57:PHE:C	2.38	0.44
5:F:476:ARG:HG3	5:F:477:GLU:HG2	1.99	0.44
5:F:543:ALA:O	5:F:547:VAL:HG23	2.17	0.44
3:D:610:ARG:NH2	3:D:901:ARG:HH12	2.16	0.44
2:O:35:PHE:HZ	2:O:129:LEU:HA	1.83	0.44
3:P:1073:ASP:O	3:P:1075:ARG:HG2	2.18	0.44
3:J:1184:ASP:HA	3:J:1185:PRO:HD3	1.87	0.44
1:M:131:CYS:SG	1:M:132:HIS:N	2.89	0.44
1:H:97:GLU:HG3	1:H:147:GLN:HG2	2.00	0.44
3:J:650:LYS:NZ	3:J:765:GLU:OE2	2.43	0.44
2:C:894:GLN:HE22	3:D:76:LYS:HB2	1.81	0.44
1:A:228:LEU:HG	1:A:231:PHE:HE2	1.83	0.44
3:J:1221:LEU:CD1	3:J:1226:VAL:HA	2.48	0.44
5:R:428:SER:OG	6:7:41:DT:C7	2.64	0.44
2:O:1298:VAL:HG22	2:O:1301:ARG:NH2	2.32	0.44
3:D:894:VAL:HG23	3:D:895:CYS:C	2.38	0.44
2:O:1288:GLN:HG2	2:O:1315:MET:SD	2.58	0.44
3:D:799:ARG:O	3:D:803:VAL:HG23	2.18	0.44
2:I:666:SER:OG	2:I:704:MET:HE1	2.18	0.44
2:O:149:LEU:HG	2:O:451:ARG:NE	2.31	0.44
3:J:685:ILE:HG13	3:J:685:ILE:H	1.54	0.44
3:J:1266:ILE:CD1	3:J:1278:GLU:CB	2.90	0.44
2:C:1243:MET:HA	3:D:353:SER:OG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:797:GLY:N	2:C:1233:LEU:HD21	2.33	0.44
3:P:790:THR:HG21	3:P:932:MET:HG3	1.99	0.44
7:8:5:DC:H2''	7:8:6:DG:H5'	1.99	0.44
1:G:112:ALA:HB2	1:G:128:HIS:HB3	2.00	0.44
1:H:124:VAL:HG21	1:H:210:THR:OG1	2.17	0.44
3:P:176:PHE:O	3:P:177:ASP:OD1	2.36	0.44
3:P:518:VAL:HG12	3:P:519:ASN:OD1	2.17	0.44
3:J:1023:HIS:O	3:J:1024:THR:CB	2.65	0.44
2:O:704:MET:O	2:O:708:VAL:HG23	2.18	0.44
2:O:761:GLN:O	2:O:762:ASN:CB	2.64	0.44
2:C:980:VAL:CG1	2:C:980:VAL:O	2.65	0.44
3:P:254:PRO:HB3	3:P:260:PHE:CE1	2.53	0.44
3:P:736:GLN:H	3:P:736:GLN:HG2	1.53	0.44
2:O:873:ILE:H	2:O:873:ILE:HG13	1.56	0.44
3:J:217:LEU:HA	3:J:217:LEU:HD23	1.80	0.44
3:D:653:ILE:HG23	3:D:692:ARG:NH1	2.33	0.44
2:C:131:THR:HG23	2:C:135:THR:O	2.18	0.44
3:P:1216:ALA:HA	3:P:1217:PRO:HD2	1.68	0.44
2:C:1087:TYR:CE1	2:C:1215:GLY:HA2	2.48	0.44
3:D:397:ALA:O	3:D:401:VAL:HG23	2.17	0.44
3:D:422:LEU:HD11	3:D:471:PRO:N	2.33	0.44
2:O:725:GLN:C	2:O:773:LEU:HD11	2.38	0.44
3:D:885:VAL:CG1	3:D:1258:ARG:HB2	2.47	0.44
3:P:806:ASP:OD1	3:P:1346:GLY:HA2	2.18	0.44
3:P:1356:LEU:HD13	3:P:1362:GLY:HA2	1.99	0.44
1:M:81:ILE:O	1:M:85:LEU:HG	2.18	0.44
3:J:610:ARG:CZ	3:J:901:ARG:HH12	2.30	0.44
3:J:1101:LEU:HD13	3:J:1107:VAL:HG21	1.99	0.44
3:D:502:PRO:HB2	3:D:601:ILE:HD13	1.99	0.44
2:O:889:PRO:O	2:O:914:LYS:CE	2.65	0.44
3:P:116:PHE:CE2	3:P:237:MET:SD	3.11	0.44
1:H:31:LEU:CD1	1:H:201:LEU:HD22	2.48	0.44
7:8:22:DA:C2'	7:8:23:DT:OP1	2.65	0.44
3:D:1175:LEU:O	3:D:1187:GLU:HA	2.18	0.44
2:I:1103:VAL:HG11	2:I:1112:ILE:HD11	1.99	0.44
2:I:303:ASP:HB2	2:I:310:ILE:HG13	1.99	0.44
2:I:851:THR:HG22	2:I:853:ASP:N	2.29	0.44
4:Q:53:GLU:HB3	4:Q:59:ILE:HG13	1.99	0.44
3:D:700:ASN:O	3:D:704:GLU:HB2	2.17	0.44
1:G:58:GLU:HG2	1:G:172:LEU:HD12	1.98	0.44
2:I:724:VAL:CG1	2:I:727:VAL:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:976:ARG:NH2	2:C:990:ASP:OD2	2.51	0.44
5:F:601:PRO:HA	5:F:608:ARG:HH21	1.83	0.44
3:P:97:VAL:O	3:P:100:GLU:HG2	2.18	0.44
3:D:715:LYS:HG2	3:D:716:GLN:N	2.33	0.44
2:O:964:LEU:HG	2:O:964:LEU:O	2.18	0.44
3:D:281:ARG:HH12	5:F:441:ARG:NH2	2.15	0.44
1:M:232:VAL:HG22	1:N:221:ALA:HB3	1.98	0.44
3:D:363:LEU:HD12	3:D:363:LEU:O	2.18	0.44
1:G:79:LEU:HA	1:G:82:LEU:CD1	2.24	0.44
2:I:346:TYR:OH	2:I:436:ARG:HG3	2.18	0.44
3:D:925:GLU:HB3	3:D:926:PRO:HD3	1.99	0.44
5:L:452:ILE:HG21	5:L:456:MET:HB3	1.96	0.44
2:O:1290:MET:O	2:O:1295:SER:OG	2.35	0.44
3:J:318:GLY:N	3:J:322:ARG:O	2.51	0.44
5:L:406:GLN:O	5:L:409:ASN:HB2	2.18	0.44
2:I:1273:MET:HG2	7:5:14:DC:H4'	2.00	0.44
2:I:561:ILE:HD12	2:I:679:ALA:HB1	1.99	0.44
5:L:597:LYS:O	5:L:600:HIS:HB3	2.16	0.44
3:D:589:TYR:C	3:D:591:ILE:N	2.70	0.44
2:O:1073:LYS:HD2	3:P:462:ASP:HB2	1.99	0.44
3:D:1149:ARG:HA	3:D:1150:PRO:HD2	1.85	0.44
3:P:838:ARG:HG3	3:P:1250:ASP:OD2	2.17	0.44
2:O:9:LYS:HG2	2:O:1171:ARG:HD2	2.00	0.44
3:D:1218:HIS:CG	3:D:1306:LEU:HD23	2.53	0.44
3:D:1260:MET:HB3	3:D:1307:LEU:O	2.18	0.44
3:D:519:ASN:C	3:D:523:GLU:HB2	2.38	0.44
6:7:28:DA:C6	7:8:34:DG:C6	3.06	0.44
2:C:176:ILE:HD12	2:C:184:LEU:CB	2.47	0.44
2:O:1180:MET:HG3	2:O:1181:PRO:HD2	2.00	0.44
3:J:109:SER:OG	3:J:296:LYS:HD3	2.17	0.44
7:2:34:DG:H2''	7:2:35:DT:OP2	2.18	0.44
2:C:506:PHE:O	2:C:512:SER:HB2	2.17	0.44
1:N:16:ILE:HG22	1:N:26:VAL:HG22	1.99	0.44
1:H:81:ILE:HD13	1:H:131:CYS:SG	2.58	0.44
2:I:58:PRO:HB3	2:I:69:GLN:HG2	1.98	0.44
3:P:352:ARG:HH21	3:P:465:GLN:HB2	1.82	0.44
2:I:158:ASP:OD1	2:I:158:ASP:N	2.49	0.44
3:P:1272:SER:HB3	3:P:1273:ASP:H	1.52	0.44
6:7:16:DG:H2''	6:7:17:DA:OP2	2.17	0.44
2:O:816:ILE:HG13	2:O:1074:GLY:HA3	1.99	0.44
2:I:808:ASN:HA	3:J:629:PHE:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5:20:DG:H5''	7:5:20:DG:H8	1.83	0.44
7:8:48:DA:H2''	7:8:49:DA:H5''	2.00	0.44
1:H:99:ILE:HD11	1:H:145:LYS:HE3	1.99	0.44
3:D:1286:LYS:HB2	3:D:1286:LYS:HE2	1.40	0.44
3:D:1229:VAL:HG23	3:D:1233:ILE:HD11	1.92	0.44
3:D:1231:ARG:O	3:D:1234:VAL:HB	2.18	0.44
1:M:232:VAL:HG13	1:N:218:ARG:HG2	1.99	0.44
5:R:386:LEU:HD22	6:7:41:DT:N3	2.32	0.44
2:O:1243:MET:HG3	3:P:372:MET:HE1	1.97	0.44
5:F:551:LEU:HD13	5:F:559:LEU:HD12	1.98	0.44
3:J:131:PRO:O	3:J:135:ILE:HG13	2.18	0.44
2:O:896:THR:OG1	2:O:897:PRO:HD2	2.18	0.44
2:O:415:GLU:HG3	2:O:416:GLY:H	1.81	0.44
3:D:882:VAL:O	3:D:882:VAL:HG22	2.18	0.44
2:O:1284:ALA:CB	3:P:1356:LEU:CD2	2.85	0.44
5:F:87:VAL:CG1	5:F:103:ARG:HD3	2.48	0.44
5:R:135:ALA:CB	5:R:253:SER:HA	2.47	0.44
3:J:105:ILE:HG13	3:J:244:VAL:CG2	2.48	0.44
2:O:374:GLU:HB2	5:R:99:ARG:CZ	2.48	0.44
2:C:295:LYS:C	2:C:317:LEU:HG	2.36	0.44
3:J:1190:ILE:CD1	3:J:1196:LEU:HD21	2.47	0.44
3:D:357:VAL:HG22	3:D:461:PHE:CD2	2.53	0.44
1:N:92:VAL:HG11	1:N:98:VAL:HG11	2.00	0.44
2:I:149:LEU:CD2	2:I:451:ARG:HH21	2.31	0.44
3:J:69:GLU:HG3	3:J:70:CYS:O	2.18	0.44
3:D:1164:SER:O	3:D:1175:LEU:HD12	2.17	0.44
3:D:160:LEU:HA	3:D:164:GLN:OE1	2.18	0.44
3:P:932:MET:HE2	3:P:932:MET:HB2	1.58	0.44
1:A:79:LEU:O	1:A:82:LEU:HB2	2.18	0.44
2:C:952:GLN:OE1	2:C:1036:ILE:CG2	2.65	0.44
6:1:47:DC:H2'	6:1:48:DA:C8	2.53	0.44
3:D:635:SER:OG	3:D:636:GLY:N	2.50	0.44
5:F:412:LEU:HD12	5:F:412:LEU:HA	1.65	0.44
3:P:536:LEU:CD2	3:P:541:LEU:HB2	2.48	0.44
3:J:591:ILE:HB	3:J:604:MET:HE3	1.99	0.44
3:D:750:PRO:O	3:D:781:LYS:HE3	2.18	0.44
5:R:165:PHE:HB3	5:R:166:VAL:H	1.68	0.44
3:D:650:LYS:O	3:D:654:ILE:HG13	2.18	0.44
5:L:373:ARG:HG2	5:L:377:LYS:HE3	2.00	0.44
2:O:615:VAL:HA	2:O:638:SER:HB2	1.99	0.44
1:B:195:ARG:HB2	1:B:198:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:181:GLU:HB3	1:G:206:GLU:HG2	2.00	0.44
1:G:133:LEU:HD23	1:G:133:LEU:HA	1.54	0.44
2:I:865:LEU:HD22	2:I:869:GLY:C	2.38	0.44
3:P:78:LEU:O	3:P:81:ARG:HG3	2.18	0.44
3:J:376:LEU:HB2	3:J:377:PHE:HD2	1.82	0.43
1:M:41:ASN:ND2	2:O:1218:GLY:CA	2.81	0.43
2:C:714:VAL:CG1	2:C:787:PRO:CD	2.95	0.43
3:D:1226:VAL:C	3:D:1229:VAL:HG12	2.37	0.43
5:R:110:LEU:CD2	5:R:385:ARG:HD2	2.44	0.43
2:O:239:MET:O	2:O:284:LEU:HA	2.17	0.43
3:D:923:ILE:HD11	3:D:1252:HIS:CB	2.48	0.43
3:D:899:TYR:CD1	3:D:915:ILE:HG21	2.53	0.43
5:L:437:GLN:NE2	5:L:441:ARG:HB3	2.32	0.43
5:L:456:MET:O	5:L:459:THR:OG1	2.30	0.43
5:L:465:ARG:NH1	7:5:27:DA:H5'	2.33	0.43
1:G:16:ILE:HD13	1:G:214:GLU:OE2	2.18	0.43
1:A:29:GLU:HB2	1:A:30:PRO:CA	2.46	0.43
3:J:205:LEU:HD22	3:J:214:ARG:HG3	1.99	0.43
2:O:82:VAL:HG23	2:O:83:GLN:N	2.33	0.43
2:C:217:THR:HG23	2:C:351:LEU:CD2	2.48	0.43
3:P:271:ARG:NH1	3:P:316:ILE:HG23	2.28	0.43
4:Q:27:ALA:CB	4:Q:46:THR:HB	2.45	0.43
2:C:808:ASN:N	2:C:808:ASN:HD22	2.14	0.43
3:D:625:MET:CG	3:D:629:PHE:CE2	3.00	0.43
2:I:557:ARG:HD3	2:I:587:LEU:HB3	1.99	0.43
2:C:1058:ARG:NH1	2:C:1238:LEU:HD12	2.23	0.43
3:D:435:GLN:HE22	3:D:486:SER:HA	1.83	0.43
2:O:825:GLU:CB	2:O:827:ARG:HG3	2.48	0.43
2:I:34:SER:OG	2:I:457:GLY:N	2.41	0.43
2:O:936:ARG:HG2	2:O:937:ASP:N	2.28	0.43
1:B:57:THR:HG23	1:B:158:ARG:HH22	1.83	0.43
3:P:120:LEU:CD2	3:P:121:PRO:HA	2.48	0.43
3:P:552:ILE:HG13	3:P:570:LYS:HB2	2.00	0.43
5:R:323:ASN:HB3	5:R:324:LYS:H	1.59	0.43
3:J:574:VAL:H	3:J:574:VAL:HG23	1.53	0.43
2:O:836:LEU:HA	2:O:836:LEU:HD23	1.67	0.43
3:D:320:ASN:O	3:D:321:LYS:HB2	2.18	0.43
2:C:10:ARG:NH2	2:C:791:LEU:HB3	2.32	0.43
5:F:524:GLU:HG2	5:F:524:GLU:H	1.51	0.43
2:C:825:GLU:O	2:C:826:ASP:HB2	2.16	0.43
2:C:1309:VAL:CG1	3:D:383:GLY:HA2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:PHE:N	1:A:35:PHE:CD2	2.87	0.43
5:F:586:ARG:O	5:F:590:ILE:HG13	2.18	0.43
2:I:432:LEU:HD12	2:I:432:LEU:O	2.18	0.43
3:D:915:ILE:H	3:D:915:ILE:HG13	1.53	0.43
2:I:560:PRO:CB	3:J:776:THR:HG21	2.41	0.43
2:C:188:PHE:HE2	2:C:436:ARG:HB2	1.83	0.43
5:L:428:SER:O	5:L:432:THR:OG1	2.29	0.43
3:P:511:TYR:HD1	3:P:596:LEU:O	2.00	0.43
3:D:513:MET:SD	3:D:579:LEU:HD11	2.57	0.43
1:M:166:ARG:HH12	1:M:172:LEU:HD22	1.82	0.43
3:J:344:GLY:C	3:J:345:LYS:HG2	2.38	0.43
5:R:87:VAL:CG1	5:R:103:ARG:HD3	2.48	0.43
3:P:265:LEU:O	3:P:269:TYR:HD2	2.01	0.43
3:J:1346:GLY:H	3:J:1349:GLU:CD	2.21	0.43
2:I:550:VAL:HG13	3:J:780:ARG:CZ	2.47	0.43
3:J:1165:PHE:CZ	3:J:1196:LEU:HD12	2.53	0.43
1:N:86:LYS:HG2	1:N:173:VAL:CG1	2.48	0.43
2:O:634:VAL:CG1	2:O:635:THR:H	2.23	0.43
5:R:540:LEU:HG	5:R:541:ARG:N	2.34	0.43
3:D:62:PHE:CD1	3:D:247:PRO:HD3	2.53	0.43
1:A:12:ARG:O	1:A:28:LEU:HD13	2.18	0.43
2:C:1245:ALA:HB1	3:D:375:GLU:HB2	2.00	0.43
3:J:94:GLN:O	3:J:97:VAL:HG23	2.18	0.43
1:B:166:ARG:HG3	1:B:166:ARG:HH11	1.83	0.43
5:R:530:LEU:HB2	5:R:533:ASP:OD2	2.19	0.43
1:A:203:ILE:CG2	1:A:205:MET:CE	2.95	0.43
3:D:725:MET:HE2	3:D:725:MET:HB2	1.53	0.43
3:J:967:VAL:CG2	3:J:973:LEU:HD12	2.46	0.43
3:J:452:LEU:HD23	3:J:452:LEU:HA	1.70	0.43
3:P:346:ARG:HB3	3:P:346:ARG:HH11	1.83	0.43
4:Q:80:LEU:O	4:Q:84:THR:HG23	2.18	0.43
3:J:801:VAL:HG23	3:J:920:ALA:HB1	1.99	0.43
2:O:818:VAL:HG22	2:O:1078:LYS:O	2.18	0.43
3:D:107:LEU:HG	3:D:107:LEU:H	1.65	0.43
3:J:592:VAL:CG2	3:J:592:VAL:O	2.66	0.43
2:I:246:LEU:HA	2:I:246:LEU:HD23	1.77	0.43
3:P:255:LEU:HG	3:P:255:LEU:H	1.14	0.43
5:F:585:GLU:HG3	7:2:47:DC:H5	1.83	0.43
3:J:501:VAL:HG22	3:J:605:LEU:HD13	1.99	0.43
2:I:211:ARG:O	2:I:359:ARG:HA	2.18	0.43
3:P:70:CYS:SG	3:P:88:CYS:SG	3.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1125:GLY:HA3	2:O:1179:GLY:HA2	1.99	0.43
1:M:13:LEU:HA	1:M:28:LEU:CD2	2.43	0.43
3:J:111:THR:HG1	3:J:300:GLN:CD	2.20	0.43
2:C:257:ALA:CB	2:C:277:LEU:HD11	2.34	0.43
1:M:58:GLU:HG2	1:M:172:LEU:HD12	2.00	0.43
2:I:1255:THR:HG21	2:I:1257:GLN:HB2	2.00	0.43
2:O:1114:GLU:OE1	2:O:1230:MET:HG3	2.18	0.43
3:P:249:LEU:C	3:P:251:PRO:HD3	2.38	0.43
2:I:297:VAL:C	2:I:336:LEU:HD11	2.39	0.43
1:N:83:LEU:N	1:N:83:LEU:HD22	2.33	0.43
3:P:673:VAL:CG1	3:P:674:THR:O	2.65	0.43
2:O:796:LEU:C	2:O:1233:LEU:HD11	2.38	0.43
2:I:228:VAL:HG13	2:I:245:ARG:HH12	1.83	0.43
1:A:66:HIS:CB	2:C:927:THR:HG21	2.47	0.43
1:G:115:ILE:HD13	1:G:123:ILE:HG12	2.00	0.43
2:O:1021:LEU:HD23	2:O:1024:GLU:OE1	2.18	0.43
5:L:511:ILE:HG13	5:L:517:SER:HB2	2.00	0.43
5:R:333:VAL:HG22	5:R:336:GLU:HB2	1.99	0.43
3:D:1051:ASP:O	3:D:1055:GLY:HA2	2.19	0.43
2:O:1307:ASN:ND2	2:O:1312:ASN:HD22	2.16	0.43
2:I:937:ASP:HA	2:I:1039:GLY:HA3	1.99	0.43
2:O:24:VAL:HA	2:O:578:TYR:CE1	2.53	0.43
2:C:197:ARG:NH2	2:C:203:LYS:HG2	2.33	0.43
2:C:976:ARG:O	2:C:980:VAL:HG23	2.18	0.43
2:O:569:ILE:HG21	3:P:784:ALA:HA	1.98	0.43
3:D:623:GLN:O	3:D:627:THR:OG1	2.35	0.43
3:P:562:GLU:H	3:P:562:GLU:HG3	1.61	0.43
2:O:53:PHE:CD2	2:O:70:TYR:CE1	3.06	0.43
1:M:31:LEU:HD13	1:M:36:GLY:HA2	2.00	0.43
3:D:141:PHE:CE1	3:D:181:GLY:HA3	2.54	0.43
3:D:1261:LEU:HD23	3:D:1261:LEU:HA	1.36	0.43
3:J:849:LEU:HB3	3:J:850:LYS:H	1.62	0.43
3:J:135:ILE:O	3:J:139:LEU:CD1	2.65	0.43
2:C:1268:GLN:HE22	3:D:351:GLY:C	2.17	0.43
2:I:189:ASP:CG	2:I:190:PRO:HD2	2.38	0.43
2:O:725:GLN:HB3	2:O:733:VAL:CG2	2.49	0.43
2:C:559:CYS:CB	2:C:662:SER:HB3	2.47	0.43
2:C:277:LEU:CD1	2:C:282:VAL:HG21	2.47	0.43
2:I:167:SER:HA	3:J:1064:SER:CB	2.44	0.43
1:H:60:GLU:CD	1:H:143:ARG:HH21	2.22	0.43
1:M:8:PHE:CE1	1:N:223:ILE:CG2	2.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:802:VAL:HG13	2:O:803:ALA:N	2.32	0.43
3:J:104:HIS:O	3:J:105:ILE:HG13	2.19	0.43
1:N:102:LEU:HB2	1:N:115:ILE:CD1	2.48	0.43
2:C:104:ILE:CG2	2:C:115:LYS:HD3	2.48	0.43
3:J:825:VAL:CG2	3:J:838:ARG:HH11	2.14	0.43
1:N:140:ILE:HD12	1:N:140:ILE:HA	1.80	0.43
5:L:84:LEU:HD21	5:L:107:THR:CG2	2.48	0.43
5:F:507:MET:HE2	5:F:507:MET:HB2	1.66	0.43
2:C:494:ASN:ND2	2:C:496:LYS:HB2	2.33	0.43
2:I:678:ARG:HG3	2:I:1108:ASN:ND2	2.33	0.43
3:J:85:CYS:CB	3:J:88:CYS:SG	3.06	0.43
5:R:370:ALA:CB	5:R:373:ARG:NH2	2.80	0.43
6:7:34:DG:C2	7:8:30:DA:C2	3.06	0.43
5:L:354:THR:O	5:L:358:VAL:HG23	2.17	0.43
3:D:1037:PHE:CE2	3:D:1059:LEU:HD13	2.52	0.43
2:I:1085:MET:HE2	2:I:1085:MET:HA	1.99	0.43
2:C:208:ILE:O	2:C:211:ARG:HB2	2.18	0.43
2:O:447:HIS:CD2	2:O:449:GLY:H	2.37	0.43
3:P:1224:ARG:HD3	3:P:1228:ALA:CB	2.48	0.43
1:G:192:VAL:HG12	1:G:193:GLU:H	1.83	0.43
2:O:1166:ASP:OD1	2:O:1166:ASP:N	2.48	0.43
1:M:89:ALA:HB1	1:M:124:VAL:HB	2.01	0.43
2:I:941:LYS:H	2:I:941:LYS:HG2	1.66	0.43
2:C:742:TYR:HA	2:C:743:PRO:HD3	1.91	0.43
3:D:954:ASN:HB2	3:D:992:LYS:HZ3	1.83	0.43
3:J:368:LEU:HA	3:J:368:LEU:HD12	1.69	0.43
3:J:116:PHE:O	3:J:124:ILE:HG13	2.18	0.43
3:P:614:LEU:CD2	4:Q:5:THR:HG21	2.48	0.43
2:C:1235:LEU:HG	2:C:1235:LEU:H	1.57	0.43
3:D:475:GLU:O	3:D:479:GLU:HG2	2.18	0.43
3:P:527:LEU:HD12	3:P:533:ALA:HA	2.01	0.43
5:L:465:ARG:HH12	7:5:27:DA:H5'	1.84	0.43
3:J:322:ARG:HD3	5:L:510:PRO:HD3	1.99	0.43
2:C:1199:LEU:O	2:C:1204:LEU:HB2	2.19	0.43
2:O:1124:ILE:O	2:O:1128:ILE:HG13	2.19	0.43
3:J:291:ILE:CG2	5:L:409:ASN:HD22	2.32	0.43
5:L:383:ASN:ND2	6:4:41:DT:N3	2.66	0.43
5:L:412:LEU:HD22	5:L:435:ILE:CD1	2.45	0.43
5:L:412:LEU:HD13	5:L:435:ILE:CG1	2.48	0.43
3:D:1138:LEU:CD2	3:D:1139:PRO:HG3	2.40	0.43
3:P:316:ILE:CG2	3:P:324:LEU:HD12	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:53:DG:H2"	6:1:54:DA:OP2	2.19	0.43
3:P:973:LEU:HD22	3:P:1006:GLY:HA2	1.99	0.43
2:O:905:ILE:HA	5:R:595:LEU:HD22	2.00	0.43
5:R:595:LEU:O	5:R:599:ARG:HG3	2.17	0.43
3:P:53:ARG:HB3	3:P:54:ASP:H	1.58	0.43
2:I:1028:LYS:O	2:I:1031:ALA:HB3	2.18	0.43
2:C:1048:LYS:HG2	2:C:1049:ILE:H	1.82	0.43
1:B:48:LEU:CD2	1:B:183:ILE:HG21	2.41	0.43
5:F:121:LYS:HG2	5:F:421:TYR:CZ	2.53	0.43
3:P:931:THR:HG23	3:P:1134:ILE:HG21	2.01	0.43
2:I:758:ARG:HB2	2:I:833:ILE:CG2	2.48	0.43
2:I:253:PHE:CE1	2:I:255:ILE:HG13	2.54	0.43
2:C:1112:ILE:O	2:C:1116:HIS:HD2	2.01	0.43
2:I:1049:ILE:HG22	2:I:1050:VAL:N	2.33	0.43
3:D:264:ASP:CG	5:F:508:GLU:HB2	2.38	0.43
2:O:1180:MET:HA	2:O:1181:PRO:HD3	1.86	0.43
5:L:348:GLU:OE2	5:L:355:ILE:HD11	2.19	0.43
2:C:881:ASP:O	2:C:920:VAL:HG23	2.19	0.43
5:R:393:LYS:HD3	5:R:393:LYS:HA	1.78	0.43
2:I:755:LYS:NZ	2:I:767:GLN:O	2.45	0.43
2:C:279:LYS:HE3	2:I:79:VAL:HG21	2.01	0.43
2:C:208:ILE:CD1	2:C:356:THR:OG1	2.66	0.43
2:I:267:ARG:HD3	2:I:268:ARG:N	2.33	0.43
5:L:138:PRO:HG2	5:L:139:GLU:H	1.82	0.43
5:R:423:ARG:H	5:R:423:ARG:HG2	1.59	0.43
5:R:506:SER:O	5:R:509:THR:OG1	2.24	0.43
3:P:831:VAL:HG12	3:P:831:VAL:O	2.19	0.43
4:E:35:LYS:HA	4:E:35:LYS:HD3	1.73	0.43
3:J:705:THR:O	3:J:705:THR:HG22	2.18	0.43
3:D:733:SER:H	3:D:736:GLN:HG2	1.83	0.43
2:O:684:ASN:O	2:O:687:ARG:HB2	2.19	0.43
5:L:564:GLY:O	5:L:567:MET:O	2.37	0.43
3:J:332:LYS:HG3	3:J:1328:THR:OG1	2.19	0.43
3:J:185:ILE:O	3:J:189:LEU:CG	2.66	0.43
2:C:1277:ALA:O	2:C:1280:ALA:HB3	2.18	0.43
3:D:1346:GLY:HA3	3:D:1349:GLU:HG3	2.00	0.43
5:L:385:ARG:O	5:L:388:ILE:HG23	2.18	0.43
2:O:1298:VAL:HG22	2:O:1301:ARG:HH21	1.84	0.43
3:D:786:THR:HA	3:D:935:PHE:HD2	1.83	0.43
5:L:551:LEU:HD13	5:L:556:ALA:HA	2.00	0.43
3:J:1175:LEU:HD22	3:J:1196:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:464:ASP:CG	8:9:15:G:HO2'	2.09	0.43
2:I:805:MET:HE3	2:I:805:MET:HB2	1.95	0.43
5:L:91:ILE:HG12	5:L:94:THR:OG1	2.18	0.43
5:L:494:ILE:HG22	5:L:495:ARG:N	2.33	0.43
2:C:960:LEU:HD22	2:C:1028:LYS:HD3	2.00	0.43
1:N:156:SER:CA	1:N:159:ILE:HG22	2.48	0.43
2:I:68:LEU:HD12	2:I:68:LEU:HA	1.52	0.43
2:O:682:GLY:O	2:O:686:GLN:HG3	2.18	0.43
5:F:446:GLN:O	5:F:448:ARG:N	2.51	0.43
6:1:45:DT:H2'	6:1:46:DG:O4'	2.18	0.43
2:I:455:SER:HB2	2:I:456:VAL:H	1.68	0.43
3:D:825:VAL:CB	3:D:1242:ARG:HH12	2.32	0.43
2:O:1272:GLU:O	2:O:1276:TRP:CD1	2.72	0.43
2:C:1190:ALA:HA	2:C:1194:GLU:OE1	2.18	0.43
3:P:664:ILE:HD12	3:P:685:ILE:HD12	2.01	0.43
2:C:99:LYS:HG2	2:C:121:GLU:HG2	2.01	0.43
2:I:1335:ILE:CG2	3:J:22:ILE:CG2	2.97	0.43
1:A:235:ARG:C	1:B:218:ARG:NE	2.72	0.43
2:C:448:LEU:CG	2:C:553:THR:CB	2.92	0.43
2:I:319:LEU:H	2:I:319:LEU:HG	1.16	0.43
3:J:1253:ILE:H	3:J:1253:ILE:HG13	1.53	0.43
3:J:1286:LYS:O	3:J:1289:ASN:HB2	2.18	0.43
3:P:432:LEU:HD12	3:P:499:ILE:HD13	1.99	0.43
3:P:85:CYS:CB	3:P:88:CYS:SG	3.06	0.43
3:D:162:GLU:OE1	3:D:163:GLU:OE2	2.37	0.43
2:O:227:LYS:HE2	2:O:334:GLU:OE1	2.19	0.43
2:I:120:GLN:OE1	2:I:490:GLN:HB3	2.18	0.43
2:C:291:TYR:CZ	2:C:295:LYS:HE3	2.54	0.43
2:C:297:VAL:HG23	2:C:314:ASN:N	2.32	0.43
3:J:1165:PHE:CG	3:J:1175:LEU:HD13	2.52	0.43
3:P:115:TRP:HE3	3:P:1333:THR:HG23	1.84	0.43
2:O:204:LEU:HB3	2:O:205:PRO:HD2	2.01	0.43
6:4:44:DG:H2''	6:4:45:DT:H4'	2.00	0.43
2:I:1031:ALA:O	2:I:1032:LYS:C	2.57	0.43
3:J:1029:THR:HG23	3:J:1121:LEU:CG	2.49	0.43
3:J:1218:HIS:CE1	3:J:1306:LEU:HD23	2.53	0.43
3:P:362:ARG:HH12	4:Q:4:VAL:HG13	1.83	0.43
2:I:1164:PHE:HD2	2:I:1164:PHE:H	1.66	0.43
7:2:18:DT:H2'	7:2:19:DA:O5'	2.19	0.43
2:I:9:LYS:O	2:I:1172:LEU:HD13	2.19	0.43
3:P:339:ARG:NH1	3:P:798:ARG:HH22	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:36:DT:H2"	6:1:37:DA:H5"	2.01	0.43
1:B:162:GLU:OE2	1:B:164:ASP:HB3	2.19	0.43
3:P:1328:THR:HG22	3:P:1332:LEU:HD12	2.01	0.43
5:R:551:LEU:HA	5:R:597:LYS:HZ1	1.83	0.43
4:K:50:ALA:O	4:K:54:ILE:HG13	2.18	0.43
2:I:873:ILE:H	2:I:873:ILE:HG13	1.36	0.43
3:P:531:LYS:H	3:P:531:LYS:HG3	1.41	0.43
3:P:645:VAL:HB	3:P:700:ASN:HD22	1.83	0.43
3:D:111:THR:CG2	3:D:300:GLN:OE1	2.66	0.43
3:D:1264:ALA:CB	3:D:1304:ARG:HA	2.48	0.43
3:D:470:VAL:O	3:D:472:LEU:HG	2.19	0.43
3:D:843:VAL:HB	3:D:897:HIS:O	2.19	0.43
3:D:835:LEU:HG	3:D:836:ARG:H	1.72	0.43
1:G:30:PRO:HB3	1:G:198:LEU:HD13	2.01	0.43
3:P:1229:VAL:CG1	3:P:1230:THR:N	2.82	0.43
2:O:811:ASN:O	2:O:1099:ASN:HB2	2.19	0.43
5:L:387:VAL:CG2	5:L:412:LEU:HD23	2.48	0.43
2:I:563:THR:CG2	2:I:680:LEU:HD11	2.48	0.43
6:1:52:DT:H2"	6:1:53:DG:N7	2.34	0.43
2:I:183:TRP:CH2	6:4:47:DC:N4	2.87	0.43
3:D:70:CYS:HB2	3:D:90:VAL:CG1	2.49	0.43
3:P:79:LYS:C	3:P:79:LYS:HD3	2.39	0.43
2:C:1098:LEU:HD23	2:C:1098:LEU:HA	1.66	0.43
2:I:850:ILE:HG23	2:I:885:GLY:O	2.18	0.43
2:C:366:ILE:HG22	2:C:384:LEU:CD2	2.49	0.43
5:R:430:TYR:CZ	5:R:434:TRP:NE1	2.79	0.43
3:J:355:ILE:O	3:J:355:ILE:CG1	2.60	0.43
6:4:53:DG:C2'	6:4:54:DA:OP2	2.61	0.43
2:O:144:VAL:HG23	2:O:515:MET:SD	2.59	0.43
2:O:1307:ASN:HB3	2:O:1312:ASN:CB	2.45	0.43
1:N:54:CYS:SG	1:N:148:ARG:CA	3.06	0.43
1:G:86:LYS:CG	1:G:173:VAL:CG1	2.96	0.43
3:J:1184:ASP:N	3:J:1184:ASP:OD1	2.50	0.43
2:C:9:LYS:O	2:C:10:ARG:HB2	2.18	0.43
3:D:888:CYS:SG	3:D:890:THR:N	2.89	0.43
2:O:1201:LEU:HA	2:O:1201:LEU:HD12	1.50	0.43
5:F:109:GLU:H	5:F:109:GLU:HG3	1.68	0.43
5:F:406:GLN:HA	5:F:406:GLN:OE1	2.18	0.43
1:M:149:GLY:HA3	1:M:177:TYR:CE2	2.54	0.43
2:O:136:PHE:HB3	2:O:138:ILE:HD11	2.01	0.43
3:D:1029:THR:HG22	3:D:1099:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:130:MET:SD	2:C:134:GLY:HA2	2.59	0.43
5:F:576:VAL:O	5:F:580:PHE:HB2	2.19	0.43
2:C:714:VAL:O	2:C:767:GLN:NE2	2.52	0.43
3:D:238:ILE:CG2	3:D:239:LEU:N	2.75	0.43
3:J:502:PRO:HG2	3:J:601:ILE:HD13	1.99	0.43
2:C:425:ILE:O	2:C:428:VAL:HG23	2.19	0.43
3:D:424:ASN:N	3:D:466:MET:HE2	2.33	0.43
3:D:487:THR:O	3:D:490:ILE:HD11	2.19	0.43
2:O:901:LEU:HD13	5:R:563:PHE:CD2	2.53	0.43
3:P:1141:VAL:HG13	3:P:1145:PHE:HE2	1.82	0.43
3:D:836:ARG:O	3:D:840:LEU:HB2	2.19	0.43
3:J:828:GLY:O	3:J:994:SER:O	2.36	0.43
3:D:579:LEU:O	3:D:583:VAL:HG23	2.19	0.43
2:I:1255:THR:CG2	2:I:1257:GLN:HB2	2.49	0.43
2:O:530:ILE:HG13	2:O:573:ASN:O	2.17	0.43
2:I:1151:LEU:HD12	2:I:1151:LEU:HA	1.87	0.43
3:D:245:LEU:CD2	3:D:249:LEU:HB2	2.49	0.43
2:I:805:MET:HE3	3:J:636:GLY:HA2	2.01	0.43
3:P:536:LEU:CD2	3:P:541:LEU:HB3	2.48	0.43
3:P:378:LYS:HA	3:P:381:ILE:HD12	2.01	0.43
1:H:65:LEU:HA	1:H:169:GLY:HA2	1.99	0.43
3:J:179:LYS:HG2	3:J:180:MET:N	2.34	0.43
3:D:1179:PRO:CG	3:D:1182:GLY:O	2.67	0.43
5:R:324:LYS:HB3	5:R:325:PRO:HD2	2.01	0.43
2:C:1088:ASP:CG	2:C:1092:THR:O	2.58	0.43
3:J:433:GLY:O	3:J:457:TYR:HE1	2.02	0.43
5:L:493:LYS:HD2	5:L:493:LYS:HA	1.46	0.43
2:C:941:LYS:HB3	2:C:945:ALA:HB3	1.99	0.43
3:J:450:HIS:HA	3:J:451:PRO:HD3	1.86	0.43
3:J:1155:ILE:H	3:J:1211:SER:HB2	1.84	0.43
3:J:767:LEU:HD23	3:J:767:LEU:N	2.33	0.43
5:R:130:VAL:HG13	5:R:365:MET:SD	2.59	0.43
2:C:591:TYR:HA	2:C:655:VAL:HG23	2.01	0.43
2:C:153:PRO:HG2	2:C:401:GLY:HA2	2.01	0.43
2:O:1296:ASP:O	2:O:1321:GLU:HG2	2.19	0.43
3:J:501:VAL:HG22	3:J:605:LEU:CD1	2.49	0.43
5:R:428:SER:O	5:R:432:THR:OG1	2.32	0.43
5:F:551:LEU:CD2	5:F:597:LYS:CD	2.73	0.43
5:F:597:LYS:O	5:F:600:HIS:CB	2.67	0.43
3:D:470:VAL:CB	3:D:472:LEU:HD23	2.47	0.43
2:O:297:VAL:HG21	2:O:311:CYS:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:839:VAL:O	2:C:886:LYS:CE	2.67	0.43
2:O:1288:GLN:HB3	2:O:1315:MET:HE1	2.00	0.43
3:P:1233:ILE:HD13	3:P:1257:VAL:HG22	2.01	0.43
3:P:335:GLN:NE2	5:R:518:HIS:NE2	2.67	0.43
5:L:262:VAL:HA	5:L:263:PRO:HD3	1.91	0.43
3:D:537:TYR:CD2	3:D:544:LEU:HD21	2.54	0.43
5:L:412:LEU:HD12	5:L:412:LEU:HA	1.38	0.43
5:L:426:LYS:HG2	6:4:39:DA:H3'	2.01	0.43
3:D:1224:ARG:HB3	3:D:1228:ALA:HB3	2.01	0.43
3:P:268:LEU:HD21	3:P:324:LEU:CD1	2.49	0.43
2:I:1054:LEU:HD22	2:I:1055:ALA:C	2.39	0.43
3:P:58:CYS:O	3:P:62:PHE:HD2	2.02	0.43
2:O:992:LEU:CD2	2:O:993:PRO:HD2	2.49	0.43
2:C:718:ALA:HB2	2:C:783:LEU:CD2	2.41	0.43
3:J:40:LYS:NZ	3:J:53:ARG:NH2	2.66	0.43
3:D:156:ARG:HH22	3:D:192:MET:HA	1.83	0.43
3:J:514:THR:CB	3:J:596:LEU:H	2.32	0.43
5:F:324:LYS:HA	5:F:325:PRO:HD3	1.75	0.43
2:I:1116:HIS:CD2	3:J:641:ILE:HD11	2.53	0.43
2:O:771:VAL:HG21	2:O:783:LEU:HD22	2.01	0.43
5:R:320:ILE:HD11	5:R:330:LEU:CD1	2.49	0.43
2:C:941:LYS:HB3	2:C:945:ALA:CB	2.49	0.43
4:K:39:VAL:HA	4:K:40:PRO:HD3	1.89	0.43
3:J:363:LEU:CD2	3:J:487:THR:HG22	2.49	0.43
2:I:1156:ARG:O	2:I:1158:LYS:N	2.52	0.43
3:P:246:PRO:HA	3:P:247:PRO:HD3	1.79	0.43
3:J:1267:VAL:HB	3:J:1301:THR:HB	2.01	0.43
1:H:136:GLU:HG2	1:H:136:GLU:H	1.70	0.43
2:C:492:MET:HB2	2:C:492:MET:HE2	1.78	0.43
2:I:269:ILE:HD13	2:I:269:ILE:HA	1.87	0.43
2:I:975:ILE:HD11	2:I:1014:LEU:HB3	2.00	0.43
5:L:399:LEU:HD21	5:L:447:ALA:HA	2.01	0.43
3:D:64:PRO:O	3:D:95:THR:HG23	2.19	0.43
2:O:785:ASP:HB3	2:O:789:THR:O	2.18	0.43
1:M:31:LEU:HD23	1:M:31:LEU:HA	1.93	0.42
1:M:35:PHE:O	1:M:39:LEU:HD11	2.17	0.42
3:D:381:ILE:HG13	3:D:381:ILE:H	1.71	0.42
3:D:185:ILE:N	3:D:185:ILE:CD1	2.37	0.42
2:I:289:VAL:HG13	2:I:322:LEU:HD13	2.01	0.42
1:N:84:ASN:O	1:N:88:LEU:CD1	2.59	0.42
3:P:614:LEU:HG	4:Q:5:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:774:ILE:HG13	3:J:774:ILE:H	1.60	0.42
2:C:1283:ALA:HB1	2:C:1286:THR:OG1	2.18	0.42
3:J:1347:LEU:O	3:J:1351:VAL:HG23	2.19	0.42
2:C:1281:TYR:CZ	3:D:431:ARG:O	2.72	0.42
3:D:1350:ASN:CA	3:D:1353:VAL:HG22	2.40	0.42
5:R:458:GLU:HA	5:R:461:ASN:ND2	2.34	0.42
2:O:1289:GLU:OE2	3:P:473:THR:HG23	2.18	0.42
1:G:232:VAL:HG23	1:H:221:ALA:HB1	2.01	0.42
4:Q:30:MET:HE1	4:Q:49:ILE:HD12	2.01	0.42
2:C:1243:MET:HG3	3:D:372:MET:CE	2.49	0.42
1:G:38:THR:CG2	1:H:42:ALA:CA	2.91	0.42
2:C:468:LEU:HA	2:C:468:LEU:HD23	1.88	0.42
3:J:1115:ILE:HD13	3:J:1121:LEU:CD2	2.49	0.42
3:D:371:LYS:HB2	3:D:371:LYS:HE3	1.64	0.42
2:O:519:ASN:ND2	2:O:521:LEU:HB3	2.33	0.42
5:L:298:PRO:HD2	5:L:326:TRP:HH2	1.84	0.42
2:C:452:ARG:C	2:C:453:ILE:HD13	2.39	0.42
3:P:1132:LYS:O	3:P:1133:ASP:HB2	2.18	0.42
6:7:24:DC:H2"	6:7:25:DC:OP2	2.19	0.42
3:D:1039:ASP:OD1	3:D:1039:ASP:N	2.51	0.42
1:M:98:VAL:HG21	1:M:121:VAL:HG21	2.01	0.42
2:I:110:PRO:HB2	2:I:111:GLU:H	1.61	0.42
2:I:193:ASN:OD1	2:I:349:GLU:HB3	2.19	0.42
2:I:349:GLU:OE1	2:I:349:GLU:HA	2.18	0.42
2:C:969:ALA:O	2:C:973:SER:OG	2.29	0.42
1:N:187:VAL:CG1	1:N:201:LEU:CD1	2.97	0.42
2:C:767:GLN:HG2	2:C:786:GLY:HA2	2.01	0.42
1:A:228:LEU:O	1:A:232:VAL:HG23	2.20	0.42
3:P:337:ARG:HA	3:P:341:ASN:ND2	2.34	0.42
3:J:849:LEU:HD21	3:J:857:LEU:HD23	2.01	0.42
3:P:544:LEU:HD22	3:P:578:ILE:HD11	2.01	0.42
3:P:85:CYS:HB3	3:P:88:CYS:SG	2.59	0.42
5:L:437:GLN:HG2	6:4:35:DC:H41	1.84	0.42
5:L:437:GLN:HG2	6:4:35:DC:N4	2.34	0.42
1:N:47:LEU:CD1	1:N:183:ILE:CD1	2.89	0.42
6:7:51:DC:OP2	6:7:52:DT:H71	2.18	0.42
3:J:322:ARG:HA	3:J:323:PRO:HD2	1.65	0.42
3:D:1154:ALA:HA	3:D:1211:SER:HB2	2.00	0.42
2:I:660:VAL:HB	2:I:1187:PHE:HE2	1.83	0.42
2:I:194:LEU:HD12	2:I:195:PHE:H	1.83	0.42
1:G:51:MET:HA	1:G:52:PRO:HD2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:257:ALA:O	2:C:259:GLY:N	2.52	0.42
3:D:510:LEU:HD23	3:D:510:LEU:HA	1.66	0.42
1:M:230:ALA:HB2	1:N:11:PRO:HG2	2.01	0.42
1:N:29:GLU:HB3	1:N:200:LYS:HG2	2.00	0.42
1:N:29:GLU:HA	1:N:30:PRO:HA	1.77	0.42
2:O:374:GLU:CD	5:R:99:ARG:CD	2.87	0.42
1:M:142:MET:SD	1:M:144:ILE:HD11	2.59	0.42
3:J:950:ILE:HG23	3:J:995:TYR:CE2	2.54	0.42
1:A:11:PRO:HG3	1:B:227:GLN:HB3	2.01	0.42
1:A:28:LEU:HD11	1:B:231:PHE:HZ	1.83	0.42
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.48	0.42
3:P:1154:ALA:HB1	3:P:1211:SER:O	2.19	0.42
2:I:1103:VAL:HG22	2:I:1111:GLN:NE2	2.34	0.42
2:I:1281:TYR:CZ	3:J:431:ARG:HB2	2.55	0.42
3:D:1090:ILE:HG23	3:D:1091:PRO:CD	2.47	0.42
2:C:563:THR:O	2:C:680:LEU:HD11	2.19	0.42
3:P:1162:ILE:HG13	3:P:1162:ILE:H	1.69	0.42
3:P:518:VAL:HG12	3:P:519:ASN:CG	2.39	0.42
1:B:76:GLU:HG2	1:B:80:GLU:OE2	2.18	0.42
2:I:819:SER:OG	2:I:821:ARG:HB2	2.18	0.42
3:D:508:LEU:HD12	3:D:508:LEU:O	2.19	0.42
1:H:59:VAL:HG22	1:H:144:ILE:HG23	2.01	0.42
5:L:333:VAL:HG22	5:L:336:GLU:HB2	2.02	0.42
2:O:189:ASP:HB2	2:O:195:PHE:HD2	1.82	0.42
3:D:320:ASN:O	3:D:321:LYS:CB	2.67	0.42
2:O:563:THR:HB	2:O:572:ILE:O	2.19	0.42
2:I:531:SER:OG	2:I:532:ALA:N	2.53	0.42
3:D:1100:PHE:CE1	3:D:1192:LYS:HE2	2.54	0.42
3:J:531:LYS:H	3:J:531:LYS:HG3	1.45	0.42
2:O:676:ALA:HA	2:O:679:ALA:HB3	2.01	0.42
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.85	0.42
3:P:130:MET:HG2	3:P:135:ILE:HG12	2.00	0.42
3:J:368:LEU:O	3:J:441:LEU:CD2	2.57	0.42
3:D:960:LEU:HD13	3:D:963:VAL:HG21	2.01	0.42
3:D:842:ARG:HB2	3:D:864:LEU:HD12	2.00	0.42
2:O:180:ARG:O	2:O:395:TYR:HA	2.19	0.42
3:J:828:GLY:CA	3:J:996:LYS:HB2	2.49	0.42
2:I:671:LEU:HD12	2:I:671:LEU:HA	1.69	0.42
2:I:178:PRO:HB3	2:I:397:LEU:CD2	2.47	0.42
2:I:178:PRO:HD3	2:I:395:TYR:OH	2.19	0.42
7:5:13:DA:H2"	7:5:14:DC:OP2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1045:THR:HG22	3:P:1067:ARG:CD	2.32	0.42
2:C:673:HIS:HB3	3:D:763:PHE:O	2.19	0.42
3:J:515:ARG:HD3	3:J:719:PHE:CE1	2.54	0.42
1:N:67:GLU:OE1	1:N:82:LEU:HD11	2.18	0.42
3:D:1078:LEU:CG	3:D:1101:LEU:HD11	2.46	0.42
3:P:398:LYS:CE	5:R:532:LEU:HD21	2.47	0.42
2:C:562:GLU:O	2:C:563:THR:CB	2.67	0.42
5:L:87:VAL:HG11	5:L:103:ARG:HD3	2.00	0.42
2:I:1145:ILE:HG22	2:I:1146:GLN:N	2.33	0.42
3:D:952:VAL:CG1	3:D:984:LEU:HD13	2.49	0.42
3:P:551:ARG:C	3:P:552:ILE:HD13	2.40	0.42
3:P:576:ARG:HD3	3:P:592:VAL:O	2.18	0.42
3:J:343:LEU:HD23	3:J:343:LEU:HA	1.76	0.42
2:O:24:VAL:HA	2:O:25:PRO:HD2	1.81	0.42
1:G:86:LYS:HG3	1:G:173:VAL:CG1	2.49	0.42
2:O:1296:ASP:N	2:O:1296:ASP:OD1	2.51	0.42
2:I:379:GLU:O	2:I:383:SER:HB2	2.19	0.42
2:C:1124:ILE:O	2:C:1128:ILE:HG13	2.19	0.42
2:O:969:ALA:O	2:O:973:SER:OG	2.29	0.42
2:I:1322:SER:O	2:I:1325:VAL:HB	2.20	0.42
2:I:1335:ILE:CG2	3:J:22:ILE:HG22	2.50	0.42
3:J:331:ILE:H	3:J:331:ILE:HG12	1.43	0.42
1:M:36:GLY:O	1:M:201:LEU:HD11	2.18	0.42
2:C:1309:VAL:HG22	3:D:379:PRO:O	2.18	0.42
1:M:224:LEU:HG	1:M:225:ALA:CA	2.45	0.42
3:J:842:ARG:NH2	3:J:884:SER:HA	2.33	0.42
2:O:315:MET:HA	2:O:315:MET:CE	2.49	0.42
3:D:813:ASP:OD1	3:D:883:ARG:NH1	2.31	0.42
5:L:459:THR:O	5:L:463:LEU:CG	2.53	0.42
2:O:1288:GLN:NE2	3:P:1354:GLY:O	2.53	0.42
3:D:131:PRO:O	3:D:135:ILE:CD1	2.67	0.42
3:J:791:ALA:O	7:5:13:DA:H5'	2.19	0.42
3:D:282:LEU:HD21	5:F:410:ILE:CD1	2.48	0.42
3:P:452:LEU:HD22	3:P:502:PRO:HA	2.01	0.42
2:C:944:ARG:HD2	2:C:947:GLU:OE2	2.19	0.42
1:N:102:LEU:HD12	1:N:114:ASP:C	2.40	0.42
3:P:322:ARG:CB	3:P:323:PRO:HD2	2.50	0.42
2:I:594:VAL:CG2	2:I:599:VAL:HG13	2.42	0.42
6:1:51:DC:C6	6:1:52:DT:H73	2.54	0.42
5:F:295:CYS:O	5:F:296:LYS:CG	2.67	0.42
2:O:541:GLU:HG3	2:O:542:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:375:PRO:HD3	5:L:87:VAL:HG21	2.01	0.42
2:I:1164:PHE:CD2	2:I:1164:PHE:N	2.88	0.42
5:R:550:GLY:HA3	5:R:603:ARG:HH22	1.81	0.42
3:J:672:LEU:O	3:J:673:VAL:CG2	2.68	0.42
3:P:471:PRO:HB2	3:P:476:ALA:HB1	2.00	0.42
3:J:911:LYS:HG2	3:J:911:LYS:H	1.32	0.42
2:O:742:TYR:O	2:O:974:ARG:NH1	2.45	0.42
3:J:194:LEU:HG	3:J:194:LEU:H	1.55	0.42
5:R:417:ASP:OD1	5:R:417:ASP:N	2.51	0.42
3:D:927:GLY:O	3:D:931:THR:HG23	2.19	0.42
2:I:1333:LEU:CD2	3:J:327:LEU:HD13	2.36	0.42
5:F:588:ARG:HH12	5:F:592:ALA:HB2	1.84	0.42
3:D:111:THR:HG23	3:D:300:GLN:CD	2.39	0.42
3:D:1233:ILE:H	3:D:1233:ILE:HG13	1.25	0.42
7:2:27:DA:C2'	7:2:28:DG:H5'	2.50	0.42
3:P:610:ARG:CZ	3:P:901:ARG:HH12	2.32	0.42
2:I:207:THR:O	2:I:211:ARG:HG3	2.19	0.42
2:C:1268:GLN:HE22	3:D:351:GLY:H	1.64	0.42
2:C:1314:GLN:CG	2:C:1315:MET:N	2.83	0.42
5:L:405:ILE:H	5:L:405:ILE:HG13	1.45	0.42
3:D:621:ALA:HA	3:D:624:ILE:CD1	2.49	0.42
3:P:725:MET:O	3:P:728:SER:OG	2.38	0.42
3:D:1138:LEU:CD2	3:D:1139:PRO:HD3	2.49	0.42
3:J:205:LEU:HD23	3:J:205:LEU:HA	1.60	0.42
3:J:265:LEU:O	3:J:269:TYR:HD2	2.03	0.42
2:I:920:VAL:HA	2:I:921:PRO:HD3	1.81	0.42
2:O:371:ARG:CB	5:R:99:ARG:HH21	2.28	0.42
1:B:88:LEU:HD13	1:B:128:HIS:CE1	2.54	0.42
3:P:262:THR:C	5:R:507:MET:H	2.07	0.42
3:D:246:PRO:HD2	3:D:249:LEU:HD12	2.01	0.42
2:I:810:TYR:CB	2:I:817:LEU:HD21	2.50	0.42
2:C:1058:ARG:HH11	2:C:1238:LEU:CD1	2.25	0.42
2:C:934:PHE:O	2:C:1048:LYS:HG2	2.19	0.42
1:B:71:LYS:O	1:B:74:VAL:HB	2.19	0.42
2:C:530:ILE:N	2:C:530:ILE:CD1	2.76	0.42
3:P:1319:PHE:CD2	3:P:1340:LYS:HB3	2.54	0.42
1:A:48:LEU:HD13	2:C:1082:ILE:HG21	2.01	0.42
2:I:161:LYS:HA	2:I:161:LYS:HE2	2.01	0.42
2:O:1127:LYS:HE3	2:O:1203:ASP:HB2	2.02	0.42
3:D:741:ALA:C	3:D:762:ASN:HD22	2.22	0.42
2:I:1165:SER:O	2:I:1169:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:679:TYR:CZ	3:P:683:ILE:HD11	2.55	0.42
3:P:783:LEU:O	3:P:786:THR:HB	2.18	0.42
2:C:24:VAL:HG11	2:C:707:ALA:HB1	2.02	0.42
3:P:484:MET:HE2	3:P:484:MET:HB3	1.74	0.42
5:R:134:VAL:HG13	5:R:140:ALA:HB1	2.01	0.42
3:D:1184:ASP:HA	3:D:1185:PRO:HD3	1.93	0.42
1:B:101:THR:HG22	1:B:143:ARG:HG2	2.01	0.42
2:C:1303:LYS:HG2	2:C:1306:LYS:NZ	2.35	0.42
2:C:794:LEU:HD12	2:C:794:LEU:HA	1.66	0.42
3:D:614:LEU:HB2	4:E:7:GLN:NE2	2.34	0.42
1:G:69:SER:O	1:G:70:THR:HB	2.19	0.42
3:D:926:PRO:HB2	3:D:1241:TYR:CE1	2.54	0.42
2:C:375:PRO:HA	5:F:87:VAL:HG21	2.01	0.42
3:D:502:PRO:CD	3:D:605:LEU:HD11	2.50	0.42
3:P:422:LEU:HD23	3:P:422:LEU:HA	1.71	0.42
2:I:1200:LYS:CE	2:I:1206:THR:HG21	2.44	0.42
1:N:165:GLU:HG2	1:N:166:ARG:N	2.34	0.42
3:D:374:LEU:HG	3:D:375:GLU:N	2.33	0.42
2:O:519:ASN:ND2	2:O:686:GLN:O	2.53	0.42
3:J:97:VAL:HG11	3:J:101:ARG:HD2	2.01	0.42
2:I:1042:LEU:HD13	2:I:1049:ILE:HD12	2.02	0.42
8:6:14:A:H3'	8:6:15:G:C8	2.55	0.42
3:P:536:LEU:HB3	3:P:542:ALA:CB	2.47	0.42
3:P:536:LEU:HD23	3:P:541:LEU:HB2	2.01	0.42
3:D:725:MET:HE3	3:D:732:GLY:H	1.84	0.42
3:P:1258:ARG:CG	3:P:1258:ARG:NH1	2.79	0.42
2:C:506:PHE:O	2:C:512:SER:CB	2.68	0.42
2:C:53:PHE:CZ	2:C:98:VAL:HG21	2.54	0.42
1:B:92:VAL:CG1	1:B:93:GLN:N	2.82	0.42
3:D:830:ASP:CB	3:D:832:LYS:NZ	2.83	0.42
2:O:390:PHE:O	2:O:419:ILE:CG2	2.67	0.42
5:F:231:THR:O	5:F:231:THR:HG22	2.19	0.42
5:R:228:TYR:HD2	5:R:229:VAL:HG13	1.84	0.42
5:L:92:GLY:O	5:L:93:ARG:HG3	2.20	0.42
5:L:151:VAL:CG2	5:L:162:ILE:HG13	2.49	0.42
2:I:1335:ILE:HG22	3:J:22:ILE:HG22	2.02	0.42
6:1:19:DA:C2	7:2:45:DG:C2	3.07	0.42
1:M:47:LEU:HD23	1:M:47:LEU:HA	1.71	0.42
2:C:516:ASP:HB3	2:C:522:SER:OG	2.19	0.42
3:D:428:THR:O	3:D:428:THR:HG22	2.19	0.42
2:O:1094:VAL:HG23	2:O:1094:VAL:H	1.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:297:VAL:HG11	2:O:311:CYS:CB	2.49	0.42
2:O:727:VAL:HB	2:O:773:LEU:HD22	2.02	0.42
3:D:835:LEU:HG	3:D:836:ARG:CA	2.44	0.42
5:R:461:ASN:N	5:R:461:ASN:OD1	2.52	0.42
3:J:320:ASN:HB3	7:5:22:DA:C2	2.54	0.42
3:J:320:ASN:OD1	3:J:322:ARG:HG2	2.20	0.42
3:P:511:TYR:CE2	3:P:515:ARG:HD2	2.54	0.42
3:P:514:THR:HG21	3:P:596:LEU:CD1	2.50	0.42
1:A:29:GLU:OE1	1:A:190:ALA:CB	2.68	0.42
3:P:584:PRO:HD2	3:P:620:PHE:CE1	2.55	0.42
3:P:703:THR:HG22	3:P:717:VAL:HA	2.01	0.42
3:P:113:HIS:HB2	3:P:239:LEU:HD11	2.00	0.42
2:I:709:ALA:HB3	2:I:792:GLY:O	2.20	0.42
3:P:1348:LYS:O	3:P:1351:VAL:HB	2.20	0.42
3:P:884:SER:OG	3:P:885:VAL:N	2.52	0.42
2:I:957:LYS:HG3	2:I:1029:LEU:HD11	2.02	0.42
2:I:678:ARG:HB3	2:I:1108:ASN:HD22	1.84	0.42
3:P:790:THR:HG22	3:P:931:THR:OG1	2.19	0.42
3:J:518:VAL:CG1	3:J:519:ASN:OD1	2.64	0.42
2:C:736:VAL:HG12	2:C:737:ASN:N	2.34	0.42
2:C:177:ILE:HG12	2:C:183:TRP:CD1	2.55	0.42
3:J:68:TYR:CD1	3:J:93:THR:HA	2.55	0.42
7:8:3:DG:C5	7:8:4:DC:N4	2.87	0.42
1:H:179:PRO:O	1:H:208:ASN:HB2	2.20	0.42
3:J:596:LEU:HA	3:J:596:LEU:HD23	1.77	0.42
2:I:213:LEU:HD23	2:I:213:LEU:HA	1.88	0.42
3:J:611:ILE:HG22	3:J:612:LEU:HD23	2.01	0.42
3:J:1212:ASP:N	3:J:1212:ASP:OD1	2.46	0.42
3:P:233:LYS:HG3	3:P:234:PRO:HD2	2.01	0.42
3:J:363:LEU:HD23	3:J:618:VAL:HG13	2.00	0.42
1:B:112:ALA:HB1	1:B:123:ILE:HG21	2.02	0.42
5:R:420:GLU:OE1	5:R:423:ARG:NH2	2.53	0.42
3:D:233:LYS:HE2	3:D:236:TRP:HE1	1.85	0.42
2:C:819:SER:O	2:C:822:VAL:HG23	2.19	0.42
6:4:24:DC:H2"	6:4:25:DC:OP2	2.19	0.42
3:J:676:GLY:O	3:J:679:TYR:HB3	2.20	0.42
3:J:331:ILE:HG22	3:J:338:PHE:CE2	2.53	0.42
2:C:519:ASN:OD1	2:C:519:ASN:N	2.53	0.42
3:D:24:LEU:HD21	3:D:1337:VAL:HA	2.00	0.42
3:D:1229:VAL:CG1	3:D:1230:THR:N	2.81	0.42
2:O:1268:GLN:NE2	3:P:351:GLY:HA2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:6:VAL:O	4:K:10:VAL:HG23	2.19	0.42
6:7:51:DC:C5	6:7:52:DT:H73	2.54	0.42
2:O:448:LEU:HD11	2:O:587:LEU:HB2	2.02	0.42
3:J:427:PRO:HG3	7:5:13:DA:H2	1.84	0.42
3:D:572:THR:OG1	3:D:576:ARG:HB2	2.20	0.42
1:M:158:ARG:O	1:M:162:GLU:HG3	2.20	0.42
3:D:250:ARG:N	3:D:251:PRO:HD3	2.35	0.42
5:R:494:ILE:N	5:R:494:ILE:HD12	2.34	0.42
3:P:1262:ARG:O	3:P:1282:TYR:HB2	2.19	0.42
2:O:319:LEU:H	2:O:319:LEU:HG	1.54	0.42
1:N:100:LEU:HA	1:N:100:LEU:HD23	1.92	0.42
3:J:963:VAL:O	3:J:964:LYS:HG3	2.20	0.42
2:I:1135:GLN:O	2:I:1136:GLN:HB2	2.20	0.42
2:C:1161:LEU:HD12	2:C:1164:PHE:CD2	2.55	0.42
2:O:1062:PRO:HA	2:O:1076:ILE:HB	2.02	0.42
1:A:82:LEU:HD22	1:A:173:VAL:HG22	2.00	0.42
2:C:184:LEU:HA	2:C:184:LEU:HD23	1.75	0.42
2:O:1337:ILE:HD12	3:P:22:ILE:HG12	2.02	0.42
3:D:1037:PHE:HB3	3:D:1040:MET:HB2	2.01	0.42
3:D:1046:ILE:HD12	3:D:1059:LEU:HD22	2.00	0.42
3:D:137:ARG:NH1	5:F:88:GLU:O	2.49	0.42
5:R:126:GLY:O	5:R:130:VAL:HG23	2.20	0.42
5:R:213:ASP:HA	5:R:214:PRO:HD3	1.91	0.42
3:P:623:GLN:O	3:P:627:THR:OG1	2.38	0.42
5:L:258:GLN:HG2	5:L:258:GLN:O	2.20	0.42
2:I:10:ARG:HB2	2:I:10:ARG:HE	1.56	0.42
2:C:642:SER:O	2:C:643:SER:HB3	2.19	0.42
5:F:585:GLU:CG	7:2:46:DT:C5	2.98	0.42
1:A:235:ARG:OXT	1:B:218:ARG:CD	2.67	0.42
5:F:464:ASN:HB2	7:2:26:DT:H71	2.01	0.42
1:M:221:ALA:O	1:M:224:LEU:HB3	2.20	0.42
3:J:1289:ASN:O	3:J:1293:GLU:HG3	2.20	0.42
2:C:1065:LYS:HE3	3:D:463:GLY:HA3	2.02	0.42
2:O:806:PRO:HG2	3:P:632:ALA:O	2.20	0.42
3:D:1284:ARG:HA	3:D:1287:ILE:CD1	2.41	0.42
1:M:214:GLU:O	1:M:217:ILE:HB	2.20	0.42
3:D:209:ASN:HB2	3:D:214:ARG:CD	2.41	0.42
3:J:110:PRO:CB	3:J:238:ILE:CG2	2.98	0.42
2:O:866:ASP:OD2	2:O:944:ARG:HD3	2.20	0.42
3:P:325:LYS:HD3	5:R:508:GLU:OE1	2.20	0.42
3:D:592:VAL:CG2	3:D:592:VAL:O	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:263:SER:HB2	5:F:507:MET:SD	2.60	0.42
2:C:808:ASN:CA	3:D:629:PHE:HB3	2.49	0.42
2:I:812:PHE:HZ	3:J:503:SER:HB2	1.85	0.42
3:J:950:ILE:HG23	3:J:995:TYR:CZ	2.55	0.42
1:B:31:LEU:HD23	1:B:31:LEU:HA	1.79	0.42
3:D:161:THR:N	3:D:164:GLN:OE1	2.45	0.42
3:P:121:PRO:O	3:P:122:SER:CB	2.65	0.42
3:D:700:ASN:O	3:D:704:GLU:HB3	2.20	0.42
3:P:552:ILE:CG1	3:P:570:LYS:HB2	2.50	0.42
2:I:9:LYS:HG2	2:I:1171:ARG:HD3	2.01	0.42
1:B:76:GLU:HG3	1:B:80:GLU:OE1	2.20	0.42
2:I:1064:ASP:O	2:I:1076:ILE:HD12	2.20	0.42
1:G:136:GLU:HG3	1:G:137:ASN:N	2.34	0.42
3:D:610:ARG:HH22	3:D:901:ARG:NH1	2.17	0.42
2:C:989:LEU:HD22	2:C:997:TRP:CZ2	2.55	0.42
2:O:345:PRO:O	2:O:349:GLU:HG2	2.19	0.42
2:O:631:GLU:HG3	2:O:632:ASP:N	2.35	0.42
2:I:243:PRO:CG	2:I:278:GLU:HG3	2.50	0.42
5:R:153:ALA:O	5:R:155:GLU:N	2.53	0.42
2:C:379:GLU:O	2:C:383:SER:HB2	2.20	0.42
2:C:519:ASN:OD1	2:C:522:SER:HB2	2.20	0.42
1:A:225:ALA:O	1:A:228:LEU:HB2	2.20	0.42
3:D:378:LYS:HG2	3:D:382:TYR:OH	2.19	0.42
5:R:110:LEU:CD1	5:R:110:LEU:N	2.56	0.42
2:I:220:ILE:HG22	2:I:221:LEU:HG	2.01	0.42
3:D:960:LEU:HD13	3:D:963:VAL:HG11	2.02	0.42
2:O:1281:TYR:OH	3:P:432:LEU:HD23	2.20	0.42
2:O:196:VAL:HG23	2:O:206:ALA:HA	2.02	0.42
2:I:827:ARG:O	2:I:828:PHE:CB	2.68	0.42
2:I:671:LEU:CB	2:I:1186:VAL:HG13	2.50	0.42
2:C:436:ARG:HD2	2:C:436:ARG:O	2.20	0.42
3:J:1101:LEU:HD13	3:J:1107:VAL:CG2	2.49	0.42
3:D:583:VAL:HG12	3:D:584:PRO:O	2.20	0.42
1:N:211:ILE:HG23	1:N:215:GLU:HB3	2.02	0.42
3:P:501:VAL:HG13	3:P:502:PRO:HD2	2.00	0.42
2:C:869:GLY:C	2:C:870:ILE:HD13	2.40	0.42
3:D:848:VAL:CG2	3:D:880:VAL:CG1	2.94	0.42
3:J:580:TRP:HA	3:J:583:VAL:HG23	2.01	0.42
3:D:673:VAL:HG13	3:D:674:THR:O	2.19	0.42
2:O:50:GLU:OE2	2:O:73:TYR:HE2	2.03	0.42
2:C:531:SER:CB	2:C:572:ILE:HG12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:115:GLY:O	5:L:119:ILE:HD12	2.19	0.42
3:J:1106:ILE:CG1	3:J:1125:PRO:HG2	2.49	0.42
3:J:79:LYS:HG2	3:J:79:LYS:O	2.20	0.42
2:C:1006:GLU:HB2	2:C:1007:LYS:HZ3	1.84	0.42
3:D:1275:LEU:HA	3:D:1275:LEU:HD12	1.97	0.42
1:H:51:MET:HA	1:H:52:PRO:HD2	1.91	0.42
6:1:23:DA:N6	7:2:39:DG:O6	2.53	0.42
2:I:719:LYS:HD3	2:I:751:TYR:HE1	1.84	0.42
2:C:203:LYS:H	2:C:203:LYS:HG3	1.63	0.42
5:F:601:PRO:CB	5:F:608:ARG:HH21	2.33	0.42
3:D:527:LEU:HD13	3:D:532:GLU:HB3	2.02	0.42
2:O:819:SER:OG	2:O:821:ARG:HB2	2.20	0.42
3:J:746:LEU:HG	3:J:746:LEU:H	1.51	0.42
2:O:404:LYS:C	2:O:404:LYS:HD3	2.40	0.42
3:D:914:ALA:HB2	3:D:1359:ALA:HB1	2.01	0.42
3:P:131:PRO:O	3:P:135:ILE:CG1	2.67	0.41
5:F:592:ALA:O	5:F:595:LEU:HB2	2.19	0.41
1:M:35:PHE:N	1:M:35:PHE:CD2	2.87	0.41
1:M:42:ALA:CB	1:N:38:THR:HG22	2.50	0.41
1:B:50:SER:O	1:B:52:PRO:HD3	2.20	0.41
3:D:1233:ILE:O	3:D:1237:VAL:CG2	2.48	0.41
2:I:204:LEU:HD13	2:I:208:ILE:HD13	2.02	0.41
3:D:960:LEU:HD23	3:D:981:GLU:O	2.20	0.41
8:3:14:A:H3'	8:3:15:G:C8	2.55	0.41
3:J:815:GLY:H	3:J:883:ARG:HH22	1.67	0.41
2:C:1281:TYR:OH	3:D:431:ARG:HG3	2.19	0.41
4:E:5:THR:HG22	4:E:6:VAL:N	2.34	0.41
3:P:432:LEU:HD21	3:P:489:ASN:CB	2.49	0.41
2:O:727:VAL:N	2:O:773:LEU:HD22	2.29	0.41
6:7:50:DT:C6	6:7:50:DT:H3'	2.55	0.41
3:D:1326:GLN:OE1	7:2:11:DA:C4'	2.56	0.41
2:I:868:SER:HB2	2:I:870:ILE:HD11	2.02	0.41
1:G:16:ILE:CG2	1:G:214:GLU:HG3	2.45	0.41
3:P:697:MET:HB3	3:P:697:MET:HE2	1.85	0.41
2:O:700:VAL:HG21	2:O:1114:GLU:HG3	2.02	0.41
2:I:805:MET:O	2:I:811:ASN:ND2	2.53	0.41
3:P:1262:ARG:NH2	3:P:1316:THR:HB	2.30	0.41
3:D:519:ASN:CA	3:D:523:GLU:HB2	2.50	0.41
3:D:672:LEU:O	3:D:673:VAL:HG23	2.19	0.41
2:O:155:VAL:HG22	2:O:405:PHE:CD2	2.55	0.41
2:O:68:LEU:HD12	2:O:101:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:28:DA:N6	7:5:34:DG:O6	2.53	0.41
2:O:1307:ASN:ND2	2:O:1312:ASN:ND2	2.68	0.41
2:O:368:ARG:CD	5:R:90:GLU:HG2	2.47	0.41
3:D:701:LEU:HD23	3:D:723:TYR:HB2	2.02	0.41
3:P:1093:THR:HG22	3:P:1199:PHE:CB	2.49	0.41
2:C:972:PHE:CE2	2:C:994:ARG:O	2.72	0.41
3:D:370:LYS:CE	3:D:443:GLU:HB3	2.49	0.41
3:D:522:GLY:HA2	3:D:525:MET:SD	2.60	0.41
2:O:1334:GLY:O	3:P:25:ALA:HB3	2.19	0.41
5:L:359:LYS:HD2	5:L:359:LYS:HA	1.82	0.41
3:P:705:THR:HG22	3:P:705:THR:O	2.20	0.41
2:C:358:ASP:OD1	2:C:358:ASP:N	2.37	0.41
3:P:950:ILE:HD11	3:P:1020:TRP:HZ3	1.85	0.41
1:A:17:GLU:HB3	1:A:25:LYS:O	2.20	0.41
7:2:45:DG:C2	7:2:46:DT:C2	3.08	0.41
2:C:428:VAL:HB	2:C:429:MET:HG3	2.00	0.41
5:R:428:SER:CB	6:7:40:DA:OP2	2.67	0.41
5:R:409:ASN:O	5:R:413:MET:HG2	2.19	0.41
2:I:92:TYR:HB3	2:I:137:VAL:HB	2.01	0.41
3:P:350:SER:HB3	3:P:469:HIS:CE1	2.55	0.41
3:P:433:GLY:O	3:P:457:TYR:HE1	2.03	0.41
5:L:451:ARG:NH2	6:4:32:DA:OP1	2.51	0.41
2:O:1085:MET:CA	2:O:1085:MET:HE3	2.43	0.41
2:O:1220:GLN:HG2	2:O:1221:PHE:O	2.20	0.41
3:D:332:LYS:O	3:D:333:GLY:O	2.38	0.41
2:O:812:PHE:HB3	2:O:813:GLU:H	1.67	0.41
2:O:1104:PRO:CG	3:P:725:MET:CE	2.92	0.41
3:D:501:VAL:CG1	3:D:502:PRO:CD	2.96	0.41
7:2:4:DC:C2	7:2:5:DC:C4	3.08	0.41
3:P:265:LEU:CD2	3:P:326:SER:HA	2.44	0.41
3:J:820:ILE:O	3:J:882:VAL:HG13	2.20	0.41
7:8:15:DT:C4	7:8:16:DC:N4	2.88	0.41
2:C:718:ALA:CB	2:C:783:LEU:HD21	2.41	0.41
2:O:169:LYS:HA	3:P:1065:ALA:HA	2.01	0.41
3:P:297:ARG:NH1	5:R:100:MET:CB	2.83	0.41
3:D:1176:VAL:HA	3:D:1187:GLU:HA	2.02	0.41
3:J:519:ASN:ND2	3:J:709:ARG:HB2	2.35	0.41
7:8:27:DA:H1'	7:8:28:DG:H5''	2.03	0.41
2:I:1161:LEU:O	2:I:1164:PHE:CD2	2.69	0.41
1:B:158:ARG:CZ	1:B:172:LEU:HD11	2.50	0.41
3:P:339:ARG:HH12	3:P:798:ARG:HH22	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1062:LEU:HD13	3:J:1066:GLU:OE1	2.20	0.41
2:I:1006:GLU:OE1	2:I:1006:GLU:CA	2.68	0.41
2:C:267:ARG:HD3	2:C:267:ARG:C	2.40	0.41
3:D:1077:ALA:HB2	3:D:1100:PHE:CD1	2.55	0.41
2:I:243:PRO:HG2	2:I:278:GLU:HG3	2.01	0.41
2:I:636:CYS:SG	2:I:650:VAL:HG13	2.60	0.41
3:J:623:GLN:O	3:J:627:THR:OG1	2.38	0.41
2:O:603:ILE:HG13	2:O:603:ILE:H	1.39	0.41
3:J:1087:ASP:OD2	3:J:1096:PRO:HB3	2.21	0.41
2:I:969:ALA:O	2:I:973:SER:OG	2.29	0.41
3:D:679:TYR:CE1	3:D:683:ILE:HD12	2.55	0.41
2:I:237:LEU:O	2:I:287:VAL:HG22	2.21	0.41
7:2:23:DT:H3'	7:2:24:DT:H5''	2.01	0.41
1:B:61:ILE:HD12	1:B:64:VAL:HG12	2.03	0.41
3:P:481:ARG:HG2	4:Q:6:VAL:HG21	2.00	0.41
2:I:163:LYS:HG2	2:I:164:THR:N	2.34	0.41
2:O:194:LEU:HD13	2:O:432:LEU:HD21	2.01	0.41
3:J:30:ILE:HG21	3:J:243:PRO:HB3	2.02	0.41
7:5:25:DA:C2'	7:5:26:DT:OP2	2.52	0.41
5:L:167:ASP:N	5:L:168:PRO:CD	2.82	0.41
3:J:1259:GLN:OE1	3:J:1262:ARG:NH1	2.53	0.41
5:L:390:ILE:HG21	5:L:432:THR:CG2	2.51	0.41
2:O:557:ARG:CG	2:O:557:ARG:HH11	2.29	0.41
2:O:809:GLY:HA2	3:P:629:PHE:CE1	2.54	0.41
7:2:5:DC:H2''	7:2:6:DG:OP2	2.20	0.41
5:F:166:VAL:CG1	5:F:168:PRO:HD3	2.47	0.41
3:P:407:VAL:HG22	3:P:408:VAL:N	2.35	0.41
2:I:550:VAL:O	3:J:777:HIS:ND1	2.53	0.41
3:J:1175:LEU:CD2	3:J:1196:LEU:HD13	2.50	0.41
5:R:395:THR:HA	5:R:404:LEU:HD13	2.01	0.41
1:M:83:LEU:HA	1:M:83:LEU:HD13	1.85	0.41
3:P:807:LEU:HD23	3:P:1255:VAL:HG13	2.01	0.41
2:O:993:PRO:HG3	2:O:996:ARG:NH1	2.35	0.41
5:R:370:ALA:CA	5:R:373:ARG:NH1	2.77	0.41
5:F:493:LYS:HE3	5:F:497:VAL:CG2	2.45	0.41
3:J:29:MET:O	3:J:32:SER:HB3	2.20	0.41
4:Q:64:LEU:H	4:Q:64:LEU:HG	1.64	0.41
3:P:1161:GLY:HA2	3:P:1180:VAL:HG13	2.02	0.41
3:J:339:ARG:NH2	3:J:798:ARG:HH12	2.18	0.41
3:P:1369:ARG:O	3:P:1372:ARG:HB2	2.19	0.41
1:G:158:ARG:O	1:G:162:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1116:HIS:CD2	3:J:641:ILE:HG13	2.54	0.41
2:C:1255:THR:O	2:C:1255:THR:HG22	2.20	0.41
4:Q:86:ILE:HG23	4:Q:90:ARG:NH1	2.35	0.41
5:F:390:ILE:CD1	5:F:432:THR:HG23	2.50	0.41
5:F:390:ILE:HA	5:F:393:LYS:NZ	2.35	0.41
5:L:113:ARG:HB2	5:L:114:GLU:H	1.49	0.41
5:F:313:ASP:O	5:F:316:PHE:HB2	2.20	0.41
3:P:24:LEU:HA	3:P:24:LEU:HD23	1.30	0.41
4:K:62:GLN:O	4:K:66:VAL:HG23	2.20	0.41
1:A:227:GLN:O	1:A:231:PHE:CE1	2.73	0.41
2:C:429:MET:HG3	2:C:429:MET:H	1.68	0.41
2:O:672:GLU:HB2	2:O:673:HIS:CD2	2.55	0.41
5:F:583:THR:CB	5:F:587:ILE:HD11	2.50	0.41
3:D:368:LEU:HD12	3:D:368:LEU:HA	1.81	0.41
3:J:917:VAL:CG2	3:J:1347:LEU:HD11	2.51	0.41
3:J:485:MET:HB3	3:J:488:ASN:OD1	2.20	0.41
2:C:975:ILE:HG22	2:C:979:LEU:HD11	2.03	0.41
3:P:335:GLN:NE2	5:R:518:HIS:CD2	2.88	0.41
5:L:166:VAL:HG12	5:L:168:PRO:CG	2.50	0.41
2:O:1099:ASN:ND2	3:P:504:GLN:HE21	2.18	0.41
2:O:1223:ARG:CD	3:P:636:GLY:O	2.65	0.41
3:D:615:LYS:CE	4:E:4:VAL:HB	2.48	0.41
2:I:561:ILE:CA	2:I:680:LEU:HD13	2.50	0.41
2:C:297:VAL:CG2	2:C:315:MET:H	2.33	0.41
2:C:1107:MET:HE1	3:D:763:PHE:CD2	2.56	0.41
3:J:1342:ASP:OD2	3:J:1344:LEU:CG	2.61	0.41
1:N:86:LYS:HE2	1:N:173:VAL:HG13	2.01	0.41
3:D:146:VAL:HG12	3:D:155:GLU:O	2.19	0.41
3:P:1285:VAL:CG1	3:P:1286:LYS:N	2.82	0.41
3:D:1101:LEU:HD13	3:D:1107:VAL:HG22	2.02	0.41
3:D:1163:VAL:HG12	3:D:1164:SER:N	2.34	0.41
3:D:29:MET:O	3:D:32:SER:HB3	2.20	0.41
2:O:1062:PRO:HA	2:O:1076:ILE:CG2	2.50	0.41
2:I:525:THR:HG22	2:I:687:ARG:HD3	2.02	0.41
2:I:253:PHE:HB3	2:I:288:PRO:HG3	2.02	0.41
5:R:489:MET:SD	5:R:493:LYS:HE2	2.60	0.41
5:F:115:GLY:O	5:F:118:ASP:HB2	2.20	0.41
2:I:729:ALA:O	2:I:730:SER:CB	2.65	0.41
1:B:57:THR:CB	1:B:147:GLN:NE2	2.84	0.41
3:J:436:ALA:C	3:J:437:PHE:CD1	2.94	0.41
6:1:26:DT:C2'	6:1:27:DC:OP2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:672:LEU:C	3:J:673:VAL:HG23	2.40	0.41
3:D:759:ILE:O	3:D:759:ILE:HG22	2.20	0.41
1:G:88:LEU:HD12	1:G:89:ALA:N	2.36	0.41
2:I:477:GLU:HG3	2:I:478:ARG:N	2.34	0.41
2:O:1276:TRP:N	2:O:1276:TRP:CD1	2.86	0.41
3:P:988:PHE:HB2	3:P:990:ARG:NH2	2.35	0.41
1:M:190:ALA:HB2	1:M:200:LYS:HB3	2.02	0.41
2:I:280:ASP:O	2:I:281:ASP:HB2	2.20	0.41
2:O:1116:HIS:CE1	2:O:1207:SER:O	2.73	0.41
1:M:203:ILE:HG22	1:M:205:MET:HE2	2.03	0.41
2:C:521:LEU:C	2:C:521:LEU:HD12	2.41	0.41
1:B:212:ASP:HA	1:B:213:PRO:HD3	1.85	0.41
3:D:1225:GLY:O	3:D:1229:VAL:HG12	2.20	0.41
4:K:16:ARG:O	4:K:19:LEU:HB3	2.21	0.41
3:D:421:VAL:HG12	3:D:422:LEU:N	2.35	0.41
3:D:471:PRO:CG	3:D:471:PRO:O	2.65	0.41
6:4:30:DG:C8	6:4:31:DT:H71	2.55	0.41
5:L:402:LEU:HA	5:L:405:ILE:CD1	2.39	0.41
2:O:1305:TYR:CD2	3:P:379:PRO:HB3	2.47	0.41
3:J:901:ARG:HD3	3:J:906:GLY:O	2.20	0.41
1:H:61:ILE:HD11	1:H:171:LEU:CD1	2.51	0.41
1:N:190:ALA:HB2	1:N:200:LYS:N	2.35	0.41
5:F:166:VAL:CG1	5:F:212:ILE:HG13	2.50	0.41
1:N:71:LYS:CD	1:N:140:ILE:HD13	2.47	0.41
3:D:357:VAL:HG22	3:D:461:PHE:CE2	2.56	0.41
7:8:16:DC:H2''	7:8:17:DG:H5'	2.02	0.41
5:F:428:SER:OG	6:1:41:DT:H73	2.20	0.41
5:R:407:GLU:CG	5:R:442:SER:CB	2.94	0.41
1:H:13:LEU:HD21	1:H:16:ILE:HG23	2.02	0.41
2:O:522:SER:O	2:O:526:HIS:HB2	2.20	0.41
2:I:310:ILE:CD1	2:I:324:LYS:HB3	2.46	0.41
2:C:878:THR:CG2	2:C:879:GLY:H	2.33	0.41
2:C:213:LEU:HD23	2:C:213:LEU:HA	1.80	0.41
8:6:13:GTP:H2'	8:6:14:A:H8	1.85	0.41
3:D:1120:THR:HG21	3:D:1123:ARG:HG2	2.01	0.41
2:O:840:SER:OG	2:O:1048:LYS:O	2.34	0.41
1:N:54:CYS:SG	1:N:148:ARG:HB2	2.61	0.41
2:C:390:PHE:N	2:C:390:PHE:HD2	2.18	0.41
2:C:897:PRO:HB2	5:F:565:ILE:HG13	2.01	0.41
1:H:59:VAL:HG21	1:H:85:LEU:HD13	2.02	0.41
3:P:364:HIS:HE1	3:P:438:GLU:OE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:865:LEU:HD23	2:I:865:LEU:HA	1.71	0.41
3:D:828:GLY:O	3:D:994:SER:O	2.37	0.41
3:D:767:LEU:N	3:D:767:LEU:HD23	2.35	0.41
2:C:412:GLU:H	2:C:412:GLU:HG3	1.63	0.41
3:J:239:LEU:HD23	3:J:239:LEU:HA	1.67	0.41
3:D:42:GLU:O	3:D:56:LEU:HG	2.20	0.41
2:C:668:ILE:HA	2:C:669:PRO:HD3	1.87	0.41
2:C:715:THR:HG22	2:C:786:GLY:N	2.14	0.41
1:A:44:ARG:CA	1:A:47:LEU:HD12	2.49	0.41
2:C:1283:ALA:HB1	2:C:1286:THR:HG1	1.85	0.41
2:C:1257:GLN:HG2	2:C:1258:PRO:HD2	2.03	0.41
3:J:65:VAL:CG1	3:J:98:ARG:HH12	2.10	0.41
3:P:1353:VAL:HG23	3:P:1353:VAL:O	2.19	0.41
3:D:537:TYR:CZ	3:D:544:LEU:HD11	2.55	0.41
3:D:786:THR:HA	3:D:935:PHE:CD2	2.55	0.41
5:L:400:GLN:OE1	5:L:402:LEU:HG	2.19	0.41
3:J:513:MET:HB2	3:J:579:LEU:HD11	2.02	0.41
3:D:506:VAL:HG23	3:D:506:VAL:H	1.64	0.41
3:D:514:THR:HB	3:D:595:ALA:HA	2.03	0.41
2:I:902:LEU:HA	2:I:905:ILE:CD1	2.41	0.41
3:P:326:SER:O	3:P:330:MET:HG3	2.21	0.41
3:P:113:HIS:CD2	3:P:115:TRP:HB2	2.56	0.41
3:J:504:GLN:HB3	3:J:505:ASP:H	1.70	0.41
6:4:47:DC:H2''	6:4:48:DA:O4'	2.20	0.41
1:M:92:VAL:CG1	1:M:95:LYS:O	2.62	0.41
1:A:11:PRO:O	1:B:230:ALA:CB	2.69	0.41
7:5:5:DC:H1'	7:5:6:DG:H5'	2.02	0.41
3:P:126:LEU:HA	3:P:126:LEU:HD23	1.50	0.41
2:O:1309:VAL:O	3:P:383:GLY:HA3	2.21	0.41
2:O:757:THR:CG2	2:O:758:ARG:N	2.83	0.41
3:D:749:LYS:HB3	3:D:750:PRO:CD	2.49	0.41
1:B:158:ARG:HH22	1:B:175:ALA:HB2	1.85	0.41
5:R:167:ASP:N	5:R:168:PRO:HD3	2.36	0.41
3:P:572:THR:OG1	3:P:576:ARG:HB2	2.20	0.41
3:P:205:LEU:HD11	3:P:217:LEU:HB3	2.03	0.41
3:D:723:TYR:O	3:D:726:ALA:HB3	2.21	0.41
2:O:1176:LEU:N	2:O:1176:LEU:HD23	2.35	0.41
2:C:275:ARG:NH2	2:C:279:LYS:HD2	2.36	0.41
2:I:57:PHE:HB3	2:I:58:PRO:HA	2.01	0.41
3:P:548:VAL:CG1	3:P:549:LYS:N	2.83	0.41
3:P:368:LEU:HA	3:P:369:PRO:HD3	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:407:ARG:CB	2:O:407:ARG:CZ	2.98	0.41
5:F:151:VAL:HB	5:F:161:LEU:HD23	2.03	0.41
3:D:659:ALA:O	3:D:663:GLU:HG3	2.21	0.41
3:J:211:GLU:O	3:J:215:LYS:HG3	2.19	0.41
1:M:40:GLY:HA2	1:M:43:LEU:HD11	1.95	0.41
3:D:114:ILE:HG23	3:D:115:TRP:HD1	1.85	0.41
2:C:435:ILE:H	2:C:435:ILE:HG13	1.52	0.41
4:E:2:ALA:N	4:E:5:THR:C	2.74	0.41
2:I:169:LYS:O	2:I:171:LEU:HG	2.19	0.41
2:O:422:LYS:O	2:O:425:ILE:HB	2.20	0.41
6:7:49:DG:H2'	6:7:50:DT:O4'	2.21	0.41
2:O:1323:PHE:CE2	3:P:1353:VAL:HA	2.56	0.41
3:P:1229:VAL:HG13	3:P:1230:THR:H	1.83	0.41
2:O:1128:ILE:CG2	2:O:1132:LEU:HD11	2.48	0.41
2:O:292:ILE:CD1	2:O:322:LEU:HD11	2.50	0.41
3:P:698:MET:O	3:P:702:GLN:HB2	2.21	0.41
2:I:561:ILE:C	2:I:680:LEU:HD13	2.41	0.41
3:P:501:VAL:HG13	3:P:502:PRO:CD	2.50	0.41
7:2:4:DC:N3	7:2:5:DC:N4	2.69	0.41
7:2:5:DC:H1'	7:2:6:DG:H5'	2.02	0.41
3:P:269:TYR:CD2	3:P:306:LEU:HD21	2.56	0.41
3:P:250:ARG:N	3:P:251:PRO:HD3	2.35	0.41
3:J:1095:MET:CB	3:J:1173:ARG:HH22	2.32	0.41
3:J:1189:MET:HB3	3:J:1189:MET:HE2	1.88	0.41
5:L:127:ILE:HG13	5:L:127:ILE:H	1.65	0.41
5:R:488:LEU:CG	5:R:488:LEU:O	2.56	0.41
2:I:228:VAL:HG11	2:I:239:MET:CE	2.51	0.41
2:I:953:LEU:HB3	2:I:957:LYS:HZ2	1.85	0.41
3:D:161:THR:H	3:D:164:GLN:CD	2.21	0.41
2:I:321:LEU:HD23	2:I:324:LYS:HD2	2.03	0.41
5:R:503:GLU:HG2	5:R:504:PRO:HD2	2.01	0.41
2:O:1333:LEU:HD21	3:P:327:LEU:CB	2.49	0.41
3:J:253:VAL:HG21	5:L:523:ILE:HG21	2.02	0.41
3:P:34:SER:HB3	3:P:104:HIS:HB3	2.03	0.41
3:P:361:LEU:HD22	3:P:365:GLN:HB3	2.00	0.41
2:I:1199:LEU:CD2	2:I:1204:LEU:HD13	2.50	0.41
3:P:22:ILE:HG22	3:P:1336:ALA:HA	2.03	0.41
3:D:826:ILE:HG12	3:D:831:VAL:HG22	2.03	0.41
3:P:958:ILE:HG23	3:P:982:LEU:HD11	2.01	0.41
2:I:1312:ASN:O	2:I:1313:HIS:HB2	2.21	0.41
3:J:255:LEU:HA	3:J:255:LEU:HD23	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:340:ASP:O	2:I:343:HIS:N	2.51	0.41
3:P:560:ASN:N	3:P:560:ASN:OD1	2.54	0.41
3:P:399:LYS:NZ	5:R:612:ASP:OD2	2.42	0.41
2:C:748:ILE:HD11	2:C:970:GLY:HA3	2.03	0.41
1:M:48:LEU:HG	1:M:183:ILE:HG21	2.03	0.41
2:C:691:PRO:HB3	2:C:788:SER:HB2	2.03	0.41
2:C:431:LYS:O	2:C:435:ILE:CG1	2.54	0.41
3:J:490:ILE:CD1	3:J:614:LEU:CD1	2.99	0.41
6:7:50:DT:C5'	6:7:51:DC:C6	3.03	0.41
2:O:823:VAL:HG12	2:O:1059:ARG:NE	2.31	0.41
3:D:332:LYS:HE3	7:2:11:DA:OP1	2.21	0.41
1:M:102:LEU:HD21	1:M:110:VAL:CG1	2.50	0.41
5:L:112:THR:HB	5:L:426:LYS:NZ	2.36	0.41
4:E:49:ILE:CG2	4:E:50:ALA:N	2.48	0.41
3:J:34:SER:OG	3:J:103:GLY:C	2.59	0.41
3:P:1333:THR:O	3:P:1337:VAL:HG23	2.20	0.41
2:O:838:CYS:O	2:O:1049:ILE:HG23	2.21	0.41
3:P:673:VAL:HG13	3:P:678:ARG:N	2.36	0.41
5:F:386:LEU:HA	6:1:41:DT:O4'	2.20	0.41
6:4:47:DC:H2"	6:4:48:DA:H5"	2.03	0.41
3:D:58:CYS:SG	3:D:59:ALA:N	2.88	0.41
6:4:58:DG:N2	7:5:6:DG:N2	2.69	0.41
3:D:519:ASN:HA	3:D:523:GLU:CB	2.51	0.41
3:D:1302:TYR:HD1	3:D:1302:TYR:N	2.17	0.41
3:P:270:ARG:NE	5:R:449:THR:HG23	2.34	0.41
3:P:541:LEU:HD23	3:P:541:LEU:HA	1.60	0.41
2:C:871:VAL:HG22	2:C:883:LEU:HA	2.03	0.41
3:P:1320:ILE:HD12	3:P:1342:ASP:CG	2.40	0.41
5:F:503:GLU:HB3	5:F:504:PRO:CD	2.49	0.41
1:M:136:GLU:CG	1:M:137:ASN:N	2.83	0.41
3:P:146:VAL:HG21	3:P:158:GLN:HB3	2.02	0.41
2:I:1210:ILE:HG23	2:I:1211:ARG:H	1.84	0.41
2:C:34:SER:OG	2:C:455:SER:HB2	2.21	0.41
5:R:393:LYS:O	5:R:396:ASN:OD1	2.38	0.41
2:C:758:ARG:HB2	2:C:833:ILE:HD12	2.02	0.41
3:P:1184:ASP:N	3:P:1184:ASP:OD1	2.53	0.41
3:P:943:ARG:HG3	3:P:1132:LYS:HG3	2.02	0.41
2:O:496:LYS:HE3	5:R:468:ARG:HG2	2.02	0.41
5:R:213:ASP:N	5:R:213:ASP:OD1	2.54	0.41
2:O:404:LYS:O	2:O:404:LYS:HD3	2.21	0.41
5:F:313:ASP:O	5:F:316:PHE:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1247:SER:O	3:J:348:ASP:HB3	2.20	0.41
3:D:989:GLY:C	3:D:990:ARG:HG3	2.40	0.41
1:H:185:TYR:CD2	1:H:185:TYR:O	2.74	0.41
3:D:43:THR:HG21	5:F:449:THR:CG2	2.51	0.41
2:I:231:GLU:HB3	2:I:233:ARG:HG3	2.01	0.41
3:J:378:LYS:O	3:J:382:TYR:CD2	2.74	0.41
1:M:44:ARG:HA	1:M:183:ILE:HD13	2.03	0.41
3:D:1285:VAL:HG13	3:D:1286:LYS:H	1.86	0.41
2:C:766:ASN:ND2	2:C:767:GLN:N	2.69	0.41
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.35	0.41
7:2:27:DA:C1'	7:2:28:DG:H5'	2.51	0.41
1:N:81:ILE:HG23	1:N:130:ILE:HG22	2.03	0.41
3:P:609:TYR:HD1	3:P:610:ARG:HG2	1.86	0.41
5:F:551:LEU:HD22	5:F:597:LYS:CE	2.51	0.41
5:F:558:VAL:HG12	5:F:559:LEU:HD23	2.03	0.41
3:D:470:VAL:HG12	3:D:472:LEU:HD23	2.03	0.41
2:C:1066:MET:HE2	2:C:1066:MET:HB3	1.66	0.41
5:L:388:ILE:HG12	5:L:388:ILE:O	2.18	0.41
3:D:843:VAL:CB	3:D:897:HIS:O	2.69	0.41
6:7:50:DT:H3'	6:7:51:DC:H5'	2.01	0.41
2:C:1148:ALA:O	2:C:1151:LEU:HB2	2.21	0.41
3:P:845:ALA:O	3:P:881:LYS:O	2.39	0.41
2:C:188:PHE:CE2	2:C:436:ARG:HB2	2.55	0.41
5:L:383:ASN:ND2	5:L:386:LEU:HD23	2.35	0.41
1:H:100:LEU:HD21	1:H:118:ASP:HB2	2.03	0.41
1:H:189:ALA:HA	1:H:199:ASP:HB2	2.03	0.41
1:G:51:MET:SD	1:G:52:PRO:HD2	2.61	0.41
3:D:510:LEU:HD22	3:D:596:LEU:HD12	2.02	0.41
3:P:1067:ARG:NH1	3:P:1074:LEU:O	2.54	0.41
2:O:202:ARG:H	2:O:369:MET:HE3	1.85	0.41
2:O:202:ARG:NH2	7:8:7:DC:H3'	2.36	0.41
3:J:786:THR:HG22	3:J:787:ALA:H	1.86	0.41
3:P:693:VAL:HG21	3:P:743:MET:CE	2.51	0.41
2:O:1077:SER:CB	3:P:357:VAL:CG2	2.97	0.41
5:L:551:LEU:CD1	5:L:559:LEU:HD12	2.48	0.41
5:L:593:LYS:HG2	5:L:597:LYS:HE3	2.02	0.41
3:J:832:LYS:HZ1	3:J:1242:ARG:HB3	1.85	0.41
3:J:1266:ILE:HD12	3:J:1278:GLU:HB2	2.01	0.41
3:D:372:MET:O	3:D:376:LEU:CD1	2.69	0.41
3:J:1251:LYS:HB3	3:J:1251:LYS:HE2	1.83	0.41
2:I:296:VAL:CG1	2:I:297:VAL:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:238:ILE:N	3:P:238:ILE:HD13	2.34	0.41
3:P:115:TRP:HZ2	3:P:1329:THR:HG22	1.77	0.41
2:C:807:TRP:NE1	2:C:817:LEU:HD11	2.36	0.41
5:R:573:LEU:HD11	5:R:584:ARG:CA	2.49	0.41
5:F:429:THR:OG1	6:1:39:DA:H8	2.03	0.41
3:D:145:VAL:CG2	3:D:146:VAL:N	2.83	0.41
2:C:896:THR:HG23	2:C:898:GLU:CB	2.43	0.41
3:P:1163:VAL:HG22	3:P:1177:ILE:HA	2.03	0.41
2:I:1029:LEU:O	2:I:1031:ALA:N	2.53	0.41
2:C:1032:LYS:HD3	2:C:1032:LYS:HA	1.99	0.41
2:C:301:TYR:HE1	2:C:333:ILE:HG23	1.75	0.41
5:R:370:ALA:HB1	5:R:373:ARG:HH22	1.84	0.41
2:I:674:ASP:O	3:J:772:TYR:OH	2.35	0.41
3:J:662:ALA:HA	3:J:665:GLN:NE2	2.36	0.41
7:8:5:DC:C2'	7:8:6:DG:C8	3.04	0.41
3:J:514:THR:HG21	3:J:596:LEU:CB	2.51	0.41
2:O:68:LEU:HD12	2:O:68:LEU:HA	1.78	0.41
2:O:1017:GLN:NE2	2:O:1021:LEU:HG	2.33	0.41
3:J:339:ARG:CZ	3:J:798:ARG:NH1	2.81	0.41
1:B:85:LEU:CD2	1:B:130:ILE:HG12	2.51	0.41
3:D:725:MET:O	3:D:728:SER:OG	2.39	0.41
2:I:1142:ARG:NH2	2:I:1169:VAL:HG21	2.36	0.41
3:P:592:VAL:O	3:P:592:VAL:HG22	2.21	0.41
2:I:1225:VAL:HG12	2:I:1226:THR:N	2.35	0.41
2:C:1088:ASP:OD2	2:C:1092:THR:CB	2.69	0.41
2:O:551:HIS:HB2	2:O:554:HIS:CE1	2.56	0.41
3:J:1100:PHE:CD2	3:J:1193:TRP:HA	2.55	0.41
1:H:193:GLU:O	1:H:194:GLN:HB2	2.21	0.41
6:4:46:DG:H8	6:4:46:DG:H5''	1.84	0.41
3:J:1130:GLY:O	3:J:1132:LYS:HG3	2.21	0.41
5:R:585:GLU:HG3	7:8:47:DC:C4	2.56	0.41
3:D:528:THR:O	3:D:528:THR:OG1	2.38	0.41
1:A:71:LYS:O	1:A:74:VAL:HB	2.21	0.41
3:P:1241:TYR:HB3	3:P:1246:VAL:O	2.20	0.41
2:I:10:ARG:HG2	2:I:10:ARG:O	2.21	0.41
2:C:989:LEU:HD21	2:C:1000:LEU:CD2	2.51	0.41
2:I:233:ARG:O	2:I:234:ASP:HB2	2.21	0.41
3:D:1052:GLU:HG2	3:D:1053:LEU:H	1.86	0.41
2:O:1042:LEU:HA	2:O:1042:LEU:HD23	1.83	0.41
2:O:697:LYS:HZ1	2:O:1178:LYS:HB2	1.86	0.41
3:D:112:ALA:C	3:D:238:ILE:HD11	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:139:LEU:HD21	3:D:185:ILE:HG12	2.03	0.41
5:F:551:LEU:HD21	5:F:598:LEU:HD21	2.02	0.41
3:J:135:ILE:H	3:J:135:ILE:HG13	1.57	0.41
3:D:473:THR:O	3:D:476:ALA:HB3	2.21	0.41
3:D:342:LEU:HA	3:D:342:LEU:HD23	1.68	0.41
2:C:1281:TYR:OH	3:D:431:ARG:C	2.57	0.41
3:D:431:ARG:HG3	3:D:432:LEU:HD23	2.03	0.41
3:P:70:CYS:SG	3:P:71:LEU:N	2.93	0.41
2:O:228:VAL:HG22	2:O:337:PHE:HB2	2.02	0.41
2:O:188:PHE:CZ	2:O:432:LEU:HD11	2.55	0.41
2:O:709:ALA:O	2:O:712:SER:OG	2.38	0.41
3:J:30:ILE:CG2	3:J:30:ILE:O	2.69	0.41
3:D:835:LEU:HD12	3:D:835:LEU:C	2.42	0.41
3:J:98:ARG:O	3:J:247:PRO:HD2	2.21	0.41
5:R:456:MET:HE2	5:R:456:MET:HB2	1.89	0.41
3:J:682:VAL:HA	3:J:685:ILE:HD12	2.03	0.41
3:J:270:ARG:HB3	3:J:270:ARG:NH1	2.36	0.41
5:F:135:ALA:CB	5:F:256:PHE:HB3	2.51	0.41
1:B:183:ILE:HB	1:B:205:MET:CE	2.51	0.41
3:D:856:ILE:HG22	3:D:858:VAL:HG23	2.02	0.41
2:C:539:THR:H	2:C:542:ARG:HB3	1.86	0.41
2:I:840:SER:OG	2:I:1048:LYS:C	2.60	0.41
2:C:805:MET:HE2	2:C:806:PRO:HD2	2.02	0.41
3:J:1031:VAL:HG12	3:J:1091:PRO:CD	2.51	0.41
5:L:99:ARG:H	5:L:99:ARG:HG2	1.58	0.41
7:2:18:DT:H2"	7:2:19:DA:OP1	2.20	0.41
3:D:709:ARG:O	3:D:710:ASP:CB	2.67	0.41
5:R:299:LYS:HA	5:R:302:PHE:CB	2.51	0.41
2:C:46:GLN:C	2:C:51:ALA:HB2	2.41	0.41
1:B:162:GLU:OE2	1:B:164:ASP:OD2	2.39	0.41
2:I:1251:TYR:HB2	5:L:528:LEU:CD1	2.51	0.41
5:L:237:ALA:O	5:L:238:LYS:HB2	2.21	0.41
3:P:363:LEU:HG	3:P:487:THR:HG22	2.02	0.40
5:F:586:ARG:HH12	6:1:13:DC:P	2.44	0.40
3:D:423:LEU:HD11	3:D:437:PHE:HB2	2.02	0.40
2:C:1314:GLN:HG3	4:E:28:ARG:CZ	2.52	0.40
2:I:559:CYS:O	2:I:573:ASN:ND2	2.54	0.40
3:J:247:PRO:HA	3:J:250:ARG:CZ	2.52	0.40
2:C:838:CYS:HB2	2:C:918:LEU:HB2	2.03	0.40
2:O:1278:LEU:HD11	2:O:1290:MET:HE2	2.03	0.40
2:O:1288:GLN:OE1	3:P:1356:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:342:LEU:HA	3:J:342:LEU:HD23	1.85	0.40
3:J:291:ILE:H	3:J:291:ILE:HG13	1.52	0.40
2:C:255:ILE:HG22	2:C:255:ILE:O	2.20	0.40
3:J:796:LEU:HA	3:J:799:ARG:HE	1.86	0.40
1:N:11:PRO:HB2	1:N:28:LEU:HD11	2.03	0.40
3:P:385:LEU:HB3	3:P:391:ALA:HB2	2.03	0.40
4:Q:30:MET:HE1	4:Q:49:ILE:HB	2.03	0.40
3:J:1249:ASN:HB3	3:J:1251:LYS:HG2	2.04	0.40
2:I:1212:LEU:O	2:I:1221:PHE:CD2	2.74	0.40
2:C:1080:ASN:HB3	2:C:1084:ASP:HB2	2.03	0.40
5:F:426:LYS:HG2	6:I:40:DA:OP2	2.21	0.40
3:P:807:LEU:N	3:P:807:LEU:CD1	2.84	0.40
3:P:915:ILE:HG13	3:P:915:ILE:H	1.66	0.40
2:I:149:LEU:CD1	2:I:451:ARG:CB	2.94	0.40
2:I:529:ARG:C	2:I:530:ILE:HG13	2.41	0.40
3:J:519:ASN:CG	3:J:709:ARG:HB2	2.42	0.40
2:O:686:GLN:NE2	2:O:1069:ARG:HG2	2.36	0.40
2:O:50:GLU:OE2	2:O:73:TYR:CE2	2.74	0.40
2:I:375:PRO:HA	2:I:376:PRO:HD3	1.96	0.40
5:R:137:TYR:CE1	5:R:353:LEU:HD12	2.56	0.40
3:J:83:VAL:CG1	3:J:84:ILE:N	2.83	0.40
3:J:425:ARG:HE	3:J:459:ALA:HB2	1.86	0.40
2:C:452:ARG:HG2	2:C:453:ILE:N	2.37	0.40
3:P:332:LYS:HG3	3:P:1328:THR:OG1	2.20	0.40
3:J:306:LEU:HG	3:J:307:LEU:N	2.35	0.40
2:I:887:VAL:HG23	2:I:887:VAL:O	2.22	0.40
3:P:52:GLU:OE1	3:P:52:GLU:CA	2.68	0.40
3:D:930:LEU:HD11	3:D:1246:VAL:CG2	2.51	0.40
3:D:930:LEU:HD11	3:D:1246:VAL:HB	2.02	0.40
2:O:835:GLU:O	2:O:836:LEU:HD23	2.22	0.40
2:C:866:ASP:CG	2:C:867:GLU:H	2.24	0.40
1:M:12:ARG:HA	1:N:230:ALA:CB	2.52	0.40
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.20	0.40
5:F:564:GLY:O	5:F:567:MET:O	2.38	0.40
3:P:141:PHE:CZ	3:P:181:GLY:HA3	2.56	0.40
3:D:1286:LYS:O	3:D:1289:ASN:HB2	2.22	0.40
3:D:394:ILE:O	3:D:398:LYS:HG2	2.21	0.40
1:A:208:ASN:ND2	1:A:208:ASN:H	2.18	0.40
3:P:363:LEU:CA	3:P:450:HIS:CE1	3.04	0.40
2:C:1281:TYR:CE1	3:D:431:ARG:CG	3.03	0.40
2:O:1285:TYR:O	2:O:1289:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1257:VAL:HA	3:P:1260:MET:CE	2.49	0.40
3:J:320:ASN:ND2	3:J:322:ARG:HG2	2.36	0.40
2:C:374:GLU:HA	2:C:375:PRO:HD2	1.86	0.40
2:C:375:PRO:CA	5:F:87:VAL:HG21	2.51	0.40
2:I:1305:TYR:OH	5:L:532:LEU:CG	2.53	0.40
1:G:49:SER:CB	1:H:33:ARG:NH1	2.60	0.40
2:I:120:GLN:HG2	2:I:489:PRO:HG3	1.97	0.40
3:J:742:GLY:O	3:J:762:ASN:HB3	2.22	0.40
3:P:689:ALA:HA	3:P:692:ARG:HD2	2.03	0.40
3:P:626:TYR:O	3:P:629:PHE:HB2	2.22	0.40
3:D:126:LEU:HD13	3:D:223:LEU:CD1	2.34	0.40
6:1:59:DG:O6	7:2:3:DG:O6	2.39	0.40
5:L:600:HIS:CE1	5:L:602:SER:OG	2.75	0.40
3:P:244:VAL:HG13	3:P:269:TYR:CE1	2.57	0.40
3:P:259:ARG:HH12	5:R:502:LYS:CG	2.25	0.40
2:I:594:VAL:HG22	2:I:599:VAL:HA	2.03	0.40
2:I:725:GLN:HB2	2:I:735:LYS:HG2	2.03	0.40
3:D:496:GLY:HA3	3:D:903:LEU:HD21	2.02	0.40
3:D:1032:SER:O	3:D:1080:ILE:HG22	2.21	0.40
4:K:30:MET:HE3	4:K:49:ILE:CG2	2.52	0.40
3:D:807:LEU:HA	3:D:807:LEU:HD12	1.83	0.40
5:F:117:ILE:H	5:F:117:ILE:HG13	1.68	0.40
2:I:1104:PRO:HG3	3:J:725:MET:SD	2.61	0.40
2:I:285:ILE:CG2	2:I:286:GLU:N	2.84	0.40
2:C:1116:HIS:CD2	3:D:641:ILE:CG1	3.03	0.40
1:G:35:PHE:O	1:G:39:LEU:CG	2.67	0.40
3:P:517:CYS:SG	3:P:518:VAL:N	2.94	0.40
2:O:1021:LEU:HA	2:O:1024:GLU:OE1	2.20	0.40
2:O:8:LYS:HD3	2:O:1168:GLU:OE1	2.21	0.40
1:M:136:GLU:HG2	1:M:137:ASN:N	2.35	0.40
3:D:645:VAL:HG23	3:D:700:ASN:HD22	1.85	0.40
5:L:355:ILE:HA	5:L:358:VAL:HB	2.03	0.40
2:I:1272:GLU:OE2	3:J:343:LEU:HD12	2.21	0.40
3:D:701:LEU:HD12	3:D:701:LEU:HA	1.88	0.40
5:R:394:TYR:C	5:R:396:ASN:N	2.73	0.40
3:D:677:GLU:O	3:D:681:LYS:HB2	2.20	0.40
2:O:942:ASP:HB2	2:O:945:ALA:CB	2.51	0.40
5:F:231:THR:O	5:F:235:ILE:HG13	2.20	0.40
2:I:461:GLU:O	2:I:464:PHE:HB3	2.21	0.40
3:P:252:LEU:C	3:P:252:LEU:HD12	2.41	0.40
3:D:914:ALA:HB2	3:D:1359:ALA:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:970:GLY:HA2	2:I:973:SER:HB2	2.03	0.40
1:H:69:SER:O	1:H:78:ILE:HG13	2.21	0.40
3:D:462:ASP:OD1	3:D:462:ASP:N	2.53	0.40
2:O:302:ILE:H	2:O:302:ILE:HG12	1.47	0.40
2:I:1323:PHE:O	2:I:1323:PHE:CD1	2.75	0.40
3:J:373:ALA:CB	3:J:441:LEU:HD21	2.51	0.40
2:C:690:VAL:CG1	2:C:691:PRO:HD2	2.52	0.40
2:C:667:LEU:HD23	2:C:704:MET:HE2	2.04	0.40
3:D:185:ILE:HG22	3:D:189:LEU:CD1	2.36	0.40
3:J:507:VAL:HG22	3:J:601:ILE:HD12	2.03	0.40
1:A:208:ASN:O	1:A:210:THR:N	2.54	0.40
2:C:1294:LYS:HE2	3:D:348:ASP:O	2.21	0.40
2:C:1294:LYS:HE3	3:D:349:TYR:HD2	1.85	0.40
3:D:268:LEU:HD13	3:D:306:LEU:CA	2.29	0.40
2:O:1223:ARG:HA	2:O:1224:PRO:HD3	1.94	0.40
5:L:383:ASN:ND2	5:L:386:LEU:CD2	2.85	0.40
1:M:214:GLU:CA	1:M:217:ILE:HD12	2.31	0.40
2:O:453:ILE:HD11	2:O:587:LEU:HG	2.04	0.40
3:P:142:GLU:OE1	5:R:91:ILE:HD12	2.20	0.40
1:B:88:LEU:CD1	1:B:128:HIS:CD2	3.04	0.40
3:P:115:TRP:O	3:P:119:SER:HB3	2.22	0.40
5:R:573:LEU:C	5:R:573:LEU:HD12	2.42	0.40
3:J:1046:ILE:HD12	3:J:1059:LEU:CD2	2.48	0.40
2:I:587:LEU:HA	2:I:587:LEU:HD23	1.81	0.40
1:N:145:LYS:HE3	1:N:145:LYS:HB2	1.92	0.40
5:R:407:GLU:OE2	5:R:442:SER:HB2	2.19	0.40
2:I:255:ILE:CG2	2:I:285:ILE:HD13	2.45	0.40
2:O:736:VAL:CG1	2:O:737:ASN:N	2.85	0.40
2:O:96:LEU:HD11	2:O:98:VAL:CG2	2.52	0.40
3:J:68:TYR:HA	3:J:92:VAL:HG12	2.01	0.40
2:O:1021:LEU:HA	2:O:1021:LEU:HD23	1.94	0.40
2:I:1254:VAL:HG22	3:J:251:PRO:HG3	2.03	0.40
5:R:137:TYR:CD2	5:R:138:PRO:HD2	2.56	0.40
5:R:443:ILE:HG23	5:R:444:ALA:N	2.36	0.40
3:P:1109:LEU:HD13	3:P:1113:VAL:HG11	2.02	0.40
3:D:504:GLN:HB3	3:D:505:ASP:H	1.68	0.40
1:H:67:GLU:O	1:H:78:ILE:HB	2.20	0.40
3:J:817:HIS:O	3:J:845:ALA:CB	2.69	0.40
2:O:158:ASP:HB2	2:O:173:ASN:OD1	2.21	0.40
2:O:275:ARG:NH1	2:O:278:GLU:OE1	2.45	0.40
4:E:12:LYS:HD3	4:E:12:LYS:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:409:LEU:HD23	2:I:409:LEU:HA	1.90	0.40
3:P:825:VAL:O	3:P:827:GLU:N	2.51	0.40
3:P:1035:VAL:HG22	3:P:1115:ILE:HD13	2.02	0.40
3:J:353:SER:HB3	3:J:447:ILE:CD1	2.52	0.40
1:M:42:ALA:CA	1:N:38:THR:HG21	2.40	0.40
2:I:230:PHE:CD1	2:I:292:ILE:HD11	2.57	0.40
3:J:1254:GLU:O	3:J:1257:VAL:HB	2.20	0.40
4:E:39:VAL:CG1	4:E:40:PRO:N	2.82	0.40
2:O:1243:MET:CG	3:P:372:MET:CE	2.95	0.40
2:C:685:MET:HE1	2:C:1073:LYS:HD3	2.03	0.40
3:D:425:ARG:HB2	3:D:466:MET:HE3	2.03	0.40
2:O:1086:PRO:HB3	2:O:1221:PHE:HE2	1.86	0.40
2:I:429:MET:HG3	2:I:429:MET:H	1.63	0.40
1:G:59:VAL:O	1:G:171:LEU:HD12	2.22	0.40
3:D:1146:GLU:OE2	3:D:1309:ILE:CG2	2.69	0.40
2:I:668:ILE:HA	2:I:669:PRO:HD3	1.69	0.40
3:J:398:LYS:HE2	5:L:532:LEU:HD23	2.02	0.40
3:J:797:THR:HA	3:J:800:LEU:HD12	2.02	0.40
1:B:124:VAL:HG21	1:B:210:THR:OG1	2.20	0.40
6:1:56:DG:N3	7:2:8:DG:N2	2.70	0.40
2:I:812:PHE:CE2	2:I:813:GLU:HG3	2.57	0.40
3:P:785:ASP:HB3	3:P:935:PHE:CE1	2.56	0.40
5:L:491:GLU:HA	5:L:494:ILE:HB	2.02	0.40
3:D:563:LEU:HD21	3:D:586:GLY:CA	2.51	0.40
1:H:9:LEU:HD12	1:H:10:LYS:N	2.36	0.40
2:O:122:VAL:HG13	2:O:490:GLN:HB2	2.02	0.40
5:L:266:PHE:O	5:L:269:LEU:HB2	2.21	0.40
3:J:84:ILE:HG21	3:J:84:ILE:HD13	1.81	0.40
7:8:41:DG:H2''	7:8:42:DG:OP2	2.22	0.40
6:4:46:DG:H8	6:4:46:DG:H5'	1.86	0.40
2:C:197:ARG:HB3	2:C:200:ARG:HA	2.03	0.40
2:O:92:TYR:HB2	2:O:137:VAL:HB	2.03	0.40
2:I:768:MET:HA	2:I:769:PRO:HD3	1.96	0.40
2:O:1166:ASP:O	2:O:1170:MET:HG3	2.21	0.40
4:E:30:MET:HB3	4:E:30:MET:HE2	1.82	0.40
5:R:218:ARG:O	5:R:218:ARG:HD2	2.21	0.40
3:J:328:ALA:HA	3:J:331:ILE:HG13	2.03	0.40
1:M:52:PRO:O	1:M:211:ILE:HD11	2.22	0.40
1:A:43:LEU:O	1:A:47:LEU:HD12	2.21	0.40
1:A:44:ARG:HG3	1:A:183:ILE:HG12	2.03	0.40
1:N:88:LEU:HA	1:N:88:LEU:HD12	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:886:VAL:HG22	3:J:1258:ARG:CB	2.47	0.40
3:J:613:GLY:O	3:J:617:THR:HG23	2.22	0.40
2:C:1323:PHE:C	2:C:1323:PHE:CD1	2.95	0.40
2:C:1323:PHE:O	2:C:1327:LEU:HG	2.21	0.40
3:D:1358:PRO:HB3	3:D:1366:HIS:HB3	2.03	0.40
5:L:451:ARG:HH12	6:4:32:DA:P	2.45	0.40
1:G:81:ILE:O	1:G:85:LEU:CG	2.63	0.40
5:L:381:GLU:O	5:L:384:LEU:CG	2.64	0.40
6:4:13:DC:C2'	6:4:14:DT:H72	2.52	0.40
2:O:1288:GLN:NE2	3:P:1355:ARG:HA	2.36	0.40
3:D:537:TYR:CD1	3:D:544:LEU:HG	2.56	0.40
3:D:574:VAL:HG23	3:D:574:VAL:H	1.49	0.40
2:I:667:LEU:HA	2:I:667:LEU:HD23	1.86	0.40
5:L:432:THR:O	5:L:436:ARG:HB2	2.22	0.40
3:P:271:ARG:NH1	3:P:316:ILE:HD13	2.36	0.40
2:I:550:VAL:CG2	3:J:780:ARG:HD2	2.38	0.40
3:J:1173:ARG:O	3:J:1190:ILE:CB	2.67	0.40
3:D:246:PRO:O	3:D:250:ARG:HG2	2.21	0.40
5:L:132:CYS:SG	5:L:257:LYS:HE3	2.58	0.40
5:R:572:THR:HB	7:8:45:DG:P	2.62	0.40
6:4:43:DT:C6	6:4:43:DT:C3'	3.04	0.40
6:4:47:DC:N4	6:4:48:DA:N6	2.70	0.40
8:3:13:GTP:O2A	8:3:13:GTP:H8	2.05	0.40
3:P:1163:VAL:CG1	3:P:1177:ILE:HA	2.44	0.40
1:A:11:PRO:HD3	1:B:227:GLN:OE1	2.21	0.40
3:D:58:CYS:O	3:D:62:PHE:HD2	2.05	0.40
7:5:6:DG:H2''	7:5:7:DC:C6	2.56	0.40
2:C:367:TYR:OH	2:C:380:ALA:HB1	2.21	0.40
3:J:289:ASP:O	3:J:293:ARG:HG3	2.21	0.40
2:O:12:ARG:NH1	2:O:1181:PRO:HB2	2.37	0.40
3:P:471:PRO:HB2	3:P:476:ALA:CB	2.51	0.40
6:1:25:DC:O2	7:2:39:DG:N2	2.54	0.40
5:F:425:TYR:CD2	6:1:37:DA:N3	2.90	0.40
2:C:890:LYS:HG3	2:C:891:GLY:N	2.36	0.40
3:D:759:ILE:HD11	3:D:771:GLN:HB3	2.01	0.40
2:I:724:VAL:HG11	2:I:727:VAL:HG22	2.04	0.40
2:O:766:ASN:HD22	2:O:767:GLN:N	2.19	0.40
2:O:92:TYR:O	2:O:128:PRO:HA	2.21	0.40
1:A:127:GLN:H	1:A:127:GLN:HG2	1.56	0.40
2:I:984:VAL:O	2:I:984:VAL:HG12	2.22	0.40
3:J:430:HIS:N	3:J:430:HIS:ND1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:482:GLY:HA3	2:C:487:LEU:HD11	2.02	0.40
2:I:77:GLU:HA	2:I:78:PRO:HD3	1.97	0.40
1:A:156:SER:HA	1:A:159:ILE:HB	2.02	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:12:DA:O5'	6:4:60:DC:O5'[2_454]	1.86	0.34
5:F:482:GLU:OE2	2:O:275:ARG:NH2[2_455]	1.99	0.21
3:D:1282:TYR:OH	3:P:710:ASP:OD2[1_655]	2.08	0.12

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	228/242 (94%)	210 (92%)	15 (7%)	3 (1%)	15	59
1	B	226/242 (93%)	207 (92%)	13 (6%)	6 (3%)	6	44
1	G	228/242 (94%)	211 (92%)	14 (6%)	3 (1%)	15	59
1	H	226/242 (93%)	207 (92%)	17 (8%)	2 (1%)	21	66
1	M	228/242 (94%)	209 (92%)	16 (7%)	3 (1%)	15	59
1	N	226/242 (93%)	207 (92%)	14 (6%)	5 (2%)	8	49
2	C	1339/1342 (100%)	1218 (91%)	98 (7%)	23 (2%)	11	55
2	I	1339/1342 (100%)	1210 (90%)	102 (8%)	27 (2%)	9	51
2	O	1339/1342 (100%)	1222 (91%)	87 (6%)	30 (2%)	8	49
3	D	1360/1407 (97%)	1210 (89%)	122 (9%)	28 (2%)	9	50
3	J	1360/1407 (97%)	1225 (90%)	110 (8%)	25 (2%)	11	53
3	P	1360/1407 (97%)	1208 (89%)	112 (8%)	40 (3%)	6	43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	E	88/90 (98%)	82 (93%)	5 (6%)	1 (1%)	17	63
4	K	88/90 (98%)	83 (94%)	4 (4%)	1 (1%)	17	63
4	Q	88/90 (98%)	81 (92%)	6 (7%)	1 (1%)	17	63
5	F	493/628 (78%)	443 (90%)	34 (7%)	16 (3%)	5	40
5	L	493/628 (78%)	441 (90%)	36 (7%)	16 (3%)	5	40
5	R	493/628 (78%)	441 (90%)	36 (7%)	16 (3%)	5	40
All	All	11202/11853 (94%)	10115 (90%)	841 (8%)	246 (2%)	8	49

All (246) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	209	GLY
1	A	210	THR
2	C	113	THR
2	C	481	LEU
2	C	791	LEU
2	C	808	ASN
2	C	812	PHE
2	C	909	LYS
2	C	1162	SER
3	D	16	GLU
3	D	53	ARG
3	D	77	ARG
3	D	519	ASN
3	D	590	SER
3	D	704	GLU
3	D	850	LYS
3	D	1024	THR
3	D	1114	GLN
3	D	1275	LEU
3	D	1309	ILE
5	F	243	ALA
5	F	296	LYS
5	F	330	LEU
5	F	396	ASN
5	F	447	ALA
5	F	515	GLU
5	F	519	LEU
5	F	581	ASP
1	H	209	GLY

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Mol	Chain	Res	Type
2	I	110	PRO
2	I	341	LEU
2	I	730	SER
2	I	791	LEU
2	I	808	ASN
2	I	812	PHE
2	I	1135	GLN
2	I	1162	SER
3	J	519	ASN
3	J	590	SER
3	J	947	GLU
3	J	1024	THR
3	J	1200	GLU
3	J	1275	LEU
3	J	1309	ILE
3	J	1318	SER
5	L	156	ALA
5	L	296	LYS
5	L	310	GLU
5	L	396	ASN
5	L	515	GLU
5	L	519	LEU
5	L	581	ASP
1	M	164	ASP
1	M	233	ASP
1	N	117	HIS
2	O	110	PRO
2	O	163	LYS
2	O	247	ARG
2	O	293	ALA
2	O	341	LEU
2	O	730	SER
2	O	791	LEU
2	O	808	ASN
2	O	812	PHE
2	O	912	ASP
2	O	1162	SER
3	P	53	ARG
3	P	148	GLU
3	P	174	ASP
3	P	519	ASN
3	P	590	SER

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Mol	Chain	Res	Type
3	P	1097	ALA
3	P	1169	THR
3	P	1200	GLU
3	P	1275	LEU
5	R	243	ALA
5	R	296	LYS
5	R	395	THR
5	R	400	GLN
5	R	519	LEU
5	R	581	ASP
1	B	117	HIS
1	B	118	ASP
1	B	194	GLN
2	C	258	ASN
2	C	546	GLU
2	C	596	ASP
2	C	625	GLU
2	C	730	SER
2	C	912	ASP
2	C	1005	GLU
2	C	1153	ALA
3	D	162	GLU
3	D	174	ASP
3	D	321	LYS
3	D	462	ASP
3	D	769	VAL
3	D	876	SER
3	D	1325	PHE
4	E	4	VAL
5	F	94	THR
5	F	154	GLU
5	F	155	GLU
5	F	166	VAL
5	F	310	GLU
1	G	233	ASP
2	I	163	LYS
2	I	247	ARG
2	I	986	ALA
2	I	1032	LYS
2	I	1159	VAL
3	J	53	ARG
3	J	404	GLU

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Mol	Chain	Res	Type
3	J	428	THR
3	J	708	ASN
3	J	769	VAL
3	J	876	SER
3	J	1097	ALA
3	J	1106	ILE
5	L	91	ILE
5	L	154	GLU
5	L	553	ALA
1	M	93	GLN
1	N	119	GLY
1	N	194	GLN
2	O	313	ALA
2	O	333	ILE
2	O	643	SER
2	O	981	ALA
3	P	49	PHE
3	P	152	THR
3	P	320	ASN
3	P	321	LYS
3	P	462	ASP
3	P	523	GLU
3	P	944	ALA
3	P	1024	THR
3	P	1309	ILE
5	R	154	GLU
5	R	155	GLU
1	B	72	GLU
1	B	93	GLN
2	C	163	LYS
2	C	341	LEU
2	C	1135	GLN
3	D	122	SER
3	D	404	GLU
3	D	966	VAL
5	F	324	LYS
2	I	258	ASN
2	I	856	ASN
2	I	1000	LEU
2	I	1157	GLN
2	I	1187	PHE
3	J	148	GLU

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Mol	Chain	Res	Type
3	J	462	ASP
3	J	962	ASN
3	J	1114	GLN
3	J	1344	LEU
5	L	166	VAL
5	L	447	ALA
2	O	20	GLN
2	O	281	ASP
2	O	1005	GLU
2	O	1135	GLN
3	P	16	GLU
3	P	876	SER
3	P	1166	GLY
3	P	1318	SER
3	P	1325	PHE
5	R	166	VAL
5	R	323	ASN
5	R	478	PRO
2	C	110	PRO
3	D	731	ARG
3	D	1111	ASP
5	F	323	ASN
1	G	210	THR
1	H	117	HIS
2	I	165	HIS
2	I	192	ASP
2	I	655	VAL
2	I	787	PRO
2	I	1107	MET
3	J	122	SER
1	N	209	GLY
2	O	192	ASP
2	O	332	ARG
2	O	481	LEU
2	O	485	ASP
2	O	546	GLU
3	P	769	VAL
3	P	855	ASP
3	P	1104	LYS
3	P	1170	LYS
3	P	1173	ARG
5	R	113	ARG

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Mol	Chain	Res	Type
5	R	238	LYS
5	R	553	ALA
2	C	787	PRO
2	C	981	ALA
3	D	1106	ILE
3	D	1200	GLU
5	F	91	ILE
2	I	1030	GLU
5	L	238	LYS
2	O	214	ASN
2	O	340	ASP
2	O	1040	ASP
3	P	428	THR
3	P	520	ALA
3	P	825	VAL
3	P	826	ILE
2	C	165	HIS
2	C	563	THR
3	D	619	ILE
3	D	1268	ASN
2	I	45	GLY
2	I	1036	ILE
3	J	1124	ILE
1	N	118	ASP
2	O	669	PRO
3	P	122	SER
3	P	846	GLU
3	P	1209	VAL
4	Q	4	VAL
5	R	91	ILE
4	K	4	VAL
3	P	1185	PRO
3	P	1210	ILE
2	I	993	PRO
3	J	333	GLY
5	L	582	VAL
3	P	707	ILE
5	R	324	LYS
3	J	966	VAL
5	L	324	LYS
5	L	600	HIS
3	P	1152	GLU

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Mol	Chain	Res	Type
3	P	1171	GLY
1	A	19	VAL
1	B	209	GLY
2	O	805	MET
3	D	333	GLY
1	G	167	PRO
2	O	112	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	198/208 (95%)	171 (86%)	27 (14%)	5	27
1	B	196/208 (94%)	172 (88%)	24 (12%)	6	31
1	G	198/208 (95%)	169 (85%)	29 (15%)	4	24
1	H	196/208 (94%)	171 (87%)	25 (13%)	5	29
1	M	198/208 (95%)	171 (86%)	27 (14%)	5	27
1	N	196/208 (94%)	167 (85%)	29 (15%)	4	24
2	C	1156/1157 (100%)	1016 (88%)	140 (12%)	6	31
2	I	1156/1157 (100%)	1013 (88%)	143 (12%)	6	30
2	O	1156/1157 (100%)	1019 (88%)	137 (12%)	6	31
3	D	1135/1168 (97%)	968 (85%)	167 (15%)	4	24
3	J	1135/1168 (97%)	986 (87%)	149 (13%)	5	28
3	P	1135/1168 (97%)	989 (87%)	146 (13%)	5	29
4	E	74/74 (100%)	63 (85%)	11 (15%)	4	24
4	K	74/74 (100%)	70 (95%)	4 (5%)	27	64
4	Q	74/74 (100%)	68 (92%)	6 (8%)	15	50
5	F	439/554 (79%)	388 (88%)	51 (12%)	7	32
5	L	439/554 (79%)	382 (87%)	57 (13%)	5	28
5	R	439/554 (79%)	393 (90%)	46 (10%)	8	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	9594/10107 (95%)	8376 (87%)	1218 (13%)	5	29

All (1218) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	ILE
1	A	28	LEU
1	A	29	GLU
1	A	47	LEU
1	A	61	ILE
1	A	65	LEU
1	A	80	GLU
1	A	88	LEU
1	A	90	VAL
1	A	98	VAL
1	A	100	LEU
1	A	123	ILE
1	A	131	CYS
1	A	134	THR
1	A	140	ILE
1	A	159	ILE
1	A	163	GLU
1	A	168	ILE
1	A	176	CYS
1	A	182	ARG
1	A	195	ARG
1	A	208	ASN
1	A	215	GLU
1	A	228	LEU
1	A	231	PHE
1	A	232	VAL
1	A	233	ASP
1	B	12	ARG
1	B	28	LEU
1	B	47	LEU
1	B	61	ILE
1	B	74	VAL
1	B	88	LEU
1	B	111	THR
1	B	124	VAL
1	B	142	MET
1	B	160	HIS

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Mol	Chain	Res	Type
1	B	165	GLU
1	B	166	ARG
1	B	170	ARG
1	B	172	LEU
1	B	182	ARG
1	B	183	ILE
1	B	187	VAL
1	B	195	ARG
1	B	196	THR
1	B	210	THR
1	B	224	LEU
1	B	226	GLU
1	B	229	GLU
1	B	233	ASP
2	C	23	ASP
2	C	30	ILE
2	C	34	SER
2	C	75	LEU
2	C	111	GLU
2	C	116	ASP
2	C	141	THR
2	C	146	VAL
2	C	147	SER
2	C	155	VAL
2	C	171	LEU
2	C	182	SER
2	C	189	ASP
2	C	202	ARG
2	C	203	LYS
2	C	209	ILE
2	C	216	THR
2	C	235	ASN
2	C	254	ASP
2	C	255	ILE
2	C	269	ILE
2	C	270	THR
2	C	272	ARG
2	C	277	LEU
2	C	281	ASP
2	C	284	LEU
2	C	290	GLU
2	C	296	VAL

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Mol	Chain	Res	Type
2	C	322	LEU
2	C	327	GLN
2	C	332	ARG
2	C	340	ASP
2	C	358	ASP
2	C	360	LEU
2	C	365	GLU
2	C	369	MET
2	C	382	GLU
2	C	383	SER
2	C	390	PHE
2	C	392	GLU
2	C	393	ASP
2	C	396	ASP
2	C	404	LYS
2	C	407	ARG
2	C	413	GLU
2	C	422	LYS
2	C	432	LEU
2	C	433	ILE
2	C	437	ASN
2	C	442	VAL
2	C	471	VAL
2	C	472	GLU
2	C	480	SER
2	C	483	ASP
2	C	499	SER
2	C	512	SER
2	C	521	LEU
2	C	530	ILE
2	C	538	LEU
2	C	539	THR
2	C	547	VAL
2	C	558	VAL
2	C	575	LEU
2	C	576	SER
2	C	598	VAL
2	C	603	ILE
2	C	622	ASN
2	C	623	LEU
2	C	633	LEU
2	C	634	VAL

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Mol	Chain	Res	Type
2	C	635	THR
2	C	646	SER
2	C	657	THR
2	C	661	VAL
2	C	672	GLU
2	C	692	THR
2	C	714	VAL
2	C	750	ILE
2	C	757	THR
2	C	764	CYS
2	C	766	ASN
2	C	772	SER
2	C	777	VAL
2	C	783	LEU
2	C	788	SER
2	C	791	LEU
2	C	799	ASN
2	C	805	MET
2	C	814	ASP
2	C	815	SER
2	C	817	LEU
2	C	831	ILE
2	C	843	THR
2	C	859	GLU
2	C	893	THR
2	C	916	SER
2	C	925	SER
2	C	929	ILE
2	C	933	VAL
2	C	935	THR
2	C	940	GLU
2	C	941	LYS
2	C	987	GLU
2	C	991	LYS
2	C	1029	LEU
2	C	1040	ASP
2	C	1049	ILE
2	C	1059	ARG
2	C	1060	ILE
2	C	1066	MET
2	C	1088	ASP
2	C	1090	ASN

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Mol	Chain	Res	Type
2	C	1092	THR
2	C	1094	VAL
2	C	1098	LEU
2	C	1108	ASN
2	C	1126	ASP
2	C	1155	VAL
2	C	1159	VAL
2	C	1182	ILE
2	C	1186	VAL
2	C	1200	LYS
2	C	1210	ILE
2	C	1212	LEU
2	C	1223	ARG
2	C	1227	VAL
2	C	1246	ARG
2	C	1254	VAL
2	C	1262	LYS
2	C	1265	PHE
2	C	1268	GLN
2	C	1273	MET
2	C	1286	THR
2	C	1287	LEU
2	C	1290	MET
2	C	1296	ASP
2	C	1299	ASN
2	C	1302	THR
2	C	1304	MET
2	C	1337	ILE
3	D	16	GLU
3	D	22	ILE
3	D	28	ASP
3	D	29	MET
3	D	33	TRP
3	D	54	ASP
3	D	71	LEU
3	D	81	ARG
3	D	83	VAL
3	D	93	THR
3	D	99	ARG
3	D	107	LEU
3	D	111	THR
3	D	124	ILE

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Mol	Chain	Res	Type
3	D	126	LEU
3	D	129	ASP
3	D	130	MET
3	D	133	ARG
3	D	135	ILE
3	D	159	ILE
3	D	179	LYS
3	D	185	ILE
3	D	192	MET
3	D	194	LEU
3	D	195	GLU
3	D	208	THR
3	D	212	THR
3	D	224	LEU
3	D	225	GLU
3	D	238	ILE
3	D	255	LEU
3	D	259	ARG
3	D	262	THR
3	D	264	ASP
3	D	279	LEU
3	D	283	LEU
3	D	290	ILE
3	D	306	LEU
3	D	339	ARG
3	D	350	SER
3	D	353	SER
3	D	357	VAL
3	D	362	ARG
3	D	363	LEU
3	D	371	LYS
3	D	374	LEU
3	D	384	LYS
3	D	387	LEU
3	D	394	ILE
3	D	398	LYS
3	D	407	VAL
3	D	419	HIS
3	D	422	LEU
3	D	423	LEU
3	D	429	LEU
3	D	453	VAL

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Mol	Chain	Res	Type
3	D	468	VAL
3	D	470	VAL
3	D	485	MET
3	D	490	ILE
3	D	491	LEU
3	D	492	SER
3	D	495	ASN
3	D	500	ILE
3	D	515	ARG
3	D	519	ASN
3	D	536	LEU
3	D	541	LEU
3	D	548	VAL
3	D	560	ASN
3	D	572	THR
3	D	591	ILE
3	D	592	VAL
3	D	601	ILE
3	D	607	THR
3	D	614	LEU
3	D	627	THR
3	D	642	ASP
3	D	650	LYS
3	D	673	VAL
3	D	680	ASN
3	D	684	ASP
3	D	693	VAL
3	D	703	THR
3	D	715	LYS
3	D	722	ILE
3	D	737	ILE
3	D	747	MET
3	D	760	THR
3	D	775	SER
3	D	783	LEU
3	D	786	THR
3	D	788	LEU
3	D	796	LEU
3	D	802	ASP
3	D	805	GLN
3	D	806	ASP
3	D	807	LEU

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Mol	Chain	Res	Type
3	D	809	VAL
3	D	812	ASP
3	D	814	CYS
3	D	816	THR
3	D	820	ILE
3	D	825	VAL
3	D	833	GLU
3	D	835	LEU
3	D	836	ARG
3	D	838	ARG
3	D	849	LEU
3	D	853	THR
3	D	855	ASP
3	D	882	VAL
3	D	889	ASP
3	D	891	ASP
3	D	903	LEU
3	D	909	ILE
3	D	911	LYS
3	D	915	ILE
3	D	918	ILE
3	D	922	SER
3	D	928	THR
3	D	934	THR
3	D	957	SER
3	D	958	ILE
3	D	1039	ASP
3	D	1057	SER
3	D	1058	SER
3	D	1064	SER
3	D	1066	GLU
3	D	1075	ARG
3	D	1082	ASP
3	D	1094	ASP
3	D	1134	ILE
3	D	1138	LEU
3	D	1144	LEU
3	D	1151	LYS
3	D	1164	SER
3	D	1167	LYS
3	D	1175	LEU
3	D	1184	ASP

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Mol	Chain	Res	Type
3	D	1196	LEU
3	D	1197	ASN
3	D	1211	SER
3	D	1219	ASP
3	D	1226	VAL
3	D	1229	VAL
3	D	1230	THR
3	D	1233	ILE
3	D	1250	ASP
3	D	1253	ILE
3	D	1259	GLN
3	D	1261	LEU
3	D	1265	THR
3	D	1272	SER
3	D	1286	LYS
3	D	1301	THR
3	D	1305	ASP
3	D	1307	LEU
3	D	1318	SER
3	D	1333	THR
3	D	1341	ARG
3	D	1344	LEU
3	D	1356	LEU
3	D	1357	ILE
3	D	1366	HIS
3	D	1370	MET
3	D	1371	ARG
4	E	4	VAL
4	E	6	VAL
4	E	13	ILE
4	E	25	ARG
4	E	30	MET
4	E	36	ASP
4	E	43	ASN
4	E	45	LYS
4	E	51	LEU
4	E	65	ASP
4	E	71	GLU
5	F	83	VAL
5	F	89	SER
5	F	90	GLU
5	F	91	ILE

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Mol	Chain	Res	Type
5	F	93	ARG
5	F	105	MET
5	F	109	GLU
5	F	110	LEU
5	F	218	ARG
5	F	264	LYS
5	F	272	SER
5	F	291	CYS
5	F	294	GLN
5	F	306	PHE
5	F	309	ASN
5	F	313	ASP
5	F	327	SER
5	F	330	LEU
5	F	334	SER
5	F	344	LEU
5	F	359	LYS
5	F	386	LEU
5	F	387	VAL
5	F	388	ILE
5	F	400	GLN
5	F	417	ASP
5	F	423	ARG
5	F	441	ARG
5	F	450	ILE
5	F	454	VAL
5	F	461	ASN
5	F	463	LEU
5	F	471	LEU
5	F	474	MET
5	F	487	MET
5	F	492	ASP
5	F	502	LYS
5	F	505	ILE
5	F	506	SER
5	F	515	GLU
5	F	521	ASP
5	F	522	PHE
5	F	533	ASP
5	F	548	LEU
5	F	552	THR
5	F	569	THR

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Mol	Chain	Res	Type
5	F	596	ARG
5	F	600	HIS
5	F	606	VAL
5	F	609	SER
5	F	611	LEU
1	G	6	THR
1	G	9	LEU
1	G	16	ILE
1	G	28	LEU
1	G	61	ILE
1	G	81	ILE
1	G	83	LEU
1	G	88	LEU
1	G	90	VAL
1	G	103	ASN
1	G	131	CYS
1	G	140	ILE
1	G	142	MET
1	G	150	ARG
1	G	161	SER
1	G	163	GLU
1	G	168	ILE
1	G	171	LEU
1	G	176	CYS
1	G	191	ARG
1	G	196	THR
1	G	197	ASP
1	G	199	ASP
1	G	207	THR
1	G	211	ILE
1	G	215	GLU
1	G	228	LEU
1	G	234	LEU
1	G	235	ARG
1	H	12	ARG
1	H	16	ILE
1	H	20	SER
1	H	28	LEU
1	H	41	ASN
1	H	61	ILE
1	H	77	ASP
1	H	90	VAL

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Mol	Chain	Res	Type
1	H	92	VAL
1	H	111	THR
1	H	118	ASP
1	H	130	ILE
1	H	131	CYS
1	H	137	ASN
1	H	148	ARG
1	H	173	VAL
1	H	176	CYS
1	H	183	ILE
1	H	187	VAL
1	H	195	ARG
1	H	196	THR
1	H	198	LEU
1	H	212	ASP
1	H	217	ILE
1	H	231	PHE
2	I	24	VAL
2	I	36	GLN
2	I	44	GLU
2	I	46	GLN
2	I	63	SER
2	I	72	SER
2	I	81	ASP
2	I	88	ARG
2	I	114	VAL
2	I	117	ILE
2	I	119	GLU
2	I	124	MET
2	I	141	THR
2	I	147	SER
2	I	155	VAL
2	I	158	ASP
2	I	159	SER
2	I	161	LYS
2	I	176	ILE
2	I	182	SER
2	I	188	PHE
2	I	202	ARG
2	I	207	THR
2	I	209	ILE
2	I	216	THR

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Mol	Chain	Res	Type
2	I	218	GLU
2	I	220	ILE
2	I	275	ARG
2	I	280	ASP
2	I	292	ILE
2	I	297	VAL
2	I	300	ASP
2	I	309	LEU
2	I	319	LEU
2	I	320	ASP
2	I	332	ARG
2	I	342	ASP
2	I	369	MET
2	I	390	PHE
2	I	391	SER
2	I	393	ASP
2	I	409	LEU
2	I	422	LYS
2	I	423	ASP
2	I	432	LEU
2	I	455	SER
2	I	459	MET
2	I	468	LEU
2	I	477	GLU
2	I	483	ASP
2	I	484	LEU
2	I	496	LYS
2	I	499	SER
2	I	525	THR
2	I	528	ARG
2	I	538	LEU
2	I	550	VAL
2	I	558	VAL
2	I	563	THR
2	I	572	ILE
2	I	576	SER
2	I	588	GLU
2	I	589	THR
2	I	595	THR
2	I	596	ASP
2	I	603	ILE
2	I	618	GLN

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Mol	Chain	Res	Type
2	I	632	ASP
2	I	634	VAL
2	I	635	THR
2	I	641	GLU
2	I	646	SER
2	I	662	SER
2	I	690	VAL
2	I	692	THR
2	I	714	VAL
2	I	727	VAL
2	I	740	GLU
2	I	745	GLU
2	I	750	ILE
2	I	757	THR
2	I	764	CYS
2	I	766	ASN
2	I	772	SER
2	I	788	SER
2	I	791	LEU
2	I	799	ASN
2	I	800	MET
2	I	805	MET
2	I	815	SER
2	I	817	LEU
2	I	839	VAL
2	I	841	ARG
2	I	843	THR
2	I	844	LYS
2	I	856	ASN
2	I	873	ILE
2	I	893	THR
2	I	894	GLN
2	I	901	LEU
2	I	911	SER
2	I	916	SER
2	I	925	SER
2	I	931	VAL
2	I	935	THR
2	I	940	GLU
2	I	941	LYS
2	I	988	LYS
2	I	1004	ASP

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Mol	Chain	Res	Type
2	I	1021	LEU
2	I	1040	ASP
2	I	1041	ASP
2	I	1054	LEU
2	I	1060	ILE
2	I	1072	ASN
2	I	1079	ILE
2	I	1085	MET
2	I	1088	ASP
2	I	1092	THR
2	I	1108	ASN
2	I	1117	LEU
2	I	1122	LYS
2	I	1145	ILE
2	I	1177	ARG
2	I	1204	LEU
2	I	1212	LEU
2	I	1222	GLU
2	I	1223	ARG
2	I	1227	VAL
2	I	1232	MET
2	I	1238	LEU
2	I	1254	VAL
2	I	1265	PHE
2	I	1286	THR
2	I	1287	LEU
2	I	1292	THR
2	I	1293	VAL
2	I	1295	SER
2	I	1296	ASP
2	I	1299	ASN
2	I	1301	ARG
2	I	1302	THR
2	I	1324	ASN
3	J	28	ASP
3	J	29	MET
3	J	48	THR
3	J	58	CYS
3	J	76	LYS
3	J	78	LEU
3	J	84	ILE
3	J	86	GLU

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Mol	Chain	Res	Type
3	J	93	THR
3	J	111	THR
3	J	115	TRP
3	J	126	LEU
3	J	130	MET
3	J	133	ARG
3	J	145	VAL
3	J	151	MET
3	J	160	LEU
3	J	177	ASP
3	J	183	GLU
3	J	185	ILE
3	J	194	LEU
3	J	195	GLU
3	J	216	LYS
3	J	221	ILE
3	J	222	LYS
3	J	233	LYS
3	J	235	GLU
3	J	238	ILE
3	J	252	LEU
3	J	256	ASP
3	J	259	ARG
3	J	262	THR
3	J	289	ASP
3	J	291	ILE
3	J	294	ASN
3	J	299	LEU
3	J	306	LEU
3	J	314	ARG
3	J	331	ILE
3	J	345	LYS
3	J	347	VAL
3	J	353	SER
3	J	356	THR
3	J	357	VAL
3	J	372	MET
3	J	376	LEU
3	J	385	LEU
3	J	394	ILE
3	J	395	LYS
3	J	423	LEU

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Mol	Chain	Res	Type
3	J	429	LEU
3	J	443	GLU
3	J	447	ILE
3	J	465	GLN
3	J	490	ILE
3	J	499	ILE
3	J	503	SER
3	J	504	GLN
3	J	513	MET
3	J	526	VAL
3	J	535	ARG
3	J	554	GLU
3	J	560	ASN
3	J	563	LEU
3	J	568	SER
3	J	572	THR
3	J	591	ILE
3	J	592	VAL
3	J	594	GLN
3	J	599	LYS
3	J	605	LEU
3	J	607	THR
3	J	609	TYR
3	J	622	ASP
3	J	627	THR
3	J	645	VAL
3	J	674	THR
3	J	684	ASP
3	J	691	ASP
3	J	692	ARG
3	J	699	ASP
3	J	703	THR
3	J	704	GLU
3	J	721	SER
3	J	736	GLN
3	J	746	LEU
3	J	747	MET
3	J	753	SER
3	J	769	VAL
3	J	770	LEU
3	J	775	SER
3	J	783	LEU

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Mol	Chain	Res	Type
3	J	786	THR
3	J	796	LEU
3	J	802	ASP
3	J	806	ASP
3	J	807	LEU
3	J	812	ASP
3	J	821	MET
3	J	825	VAL
3	J	826	ILE
3	J	835	LEU
3	J	843	VAL
3	J	855	ASP
3	J	866	GLU
3	J	878	ASP
3	J	882	VAL
3	J	891	ASP
3	J	895	CYS
3	J	908	ILE
3	J	909	ILE
3	J	911	LYS
3	J	928	THR
3	J	931	THR
3	J	957	SER
3	J	958	ILE
3	J	967	VAL
3	J	984	LEU
3	J	1038	THR
3	J	1039	ASP
3	J	1098	GLN
3	J	1149	ARG
3	J	1155	ILE
3	J	1164	SER
3	J	1170	LYS
3	J	1173	ARG
3	J	1177	ILE
3	J	1184	ASP
3	J	1189	MET
3	J	1203	ARG
3	J	1204	VAL
3	J	1208	ASP
3	J	1229	VAL
3	J	1230	THR

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Mol	Chain	Res	Type
3	J	1243	LEU
3	J	1250	ASP
3	J	1256	ILE
3	J	1262	ARG
3	J	1268	ASN
3	J	1271	SER
3	J	1318	SER
3	J	1328	THR
3	J	1333	THR
3	J	1356	LEU
3	J	1357	ILE
3	J	1361	THR
3	J	1366	HIS
3	J	1370	MET
3	J	1371	ARG
4	K	6	VAL
4	K	21	LEU
4	K	43	ASN
4	K	62	GLN
5	L	89	SER
5	L	91	ILE
5	L	105	MET
5	L	109	GLU
5	L	110	LEU
5	L	133	SER
5	L	141	ILE
5	L	149	ASP
5	L	155	GLU
5	L	163	THR
5	L	230	VAL
5	L	254	GLU
5	L	291	CYS
5	L	294	GLN
5	L	295	CYS
5	L	300	LYS
5	L	309	ASN
5	L	327	SER
5	L	332	ASP
5	L	333	VAL
5	L	334	SER
5	L	344	LEU
5	L	353	LEU

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Mol	Chain	Res	Type
5	L	354	THR
5	L	364	ARG
5	L	388	ILE
5	L	397	ARG
5	L	402	LEU
5	L	404	LEU
5	L	423	ARG
5	L	436	ARG
5	L	449	THR
5	L	450	ILE
5	L	451	ARG
5	L	455	HIS
5	L	458	GLU
5	L	461	ASN
5	L	476	ARG
5	L	483	LEU
5	L	491	GLU
5	L	498	LEU
5	L	499	LYS
5	L	521	ASP
5	L	523	ILE
5	L	530	LEU
5	L	532	LEU
5	L	552	THR
5	L	568	ASN
5	L	573	LEU
5	L	587	ILE
5	L	588	ARG
5	L	596	ARG
5	L	600	HIS
5	L	602	SER
5	L	606	VAL
5	L	609	SER
5	L	611	LEU
1	M	6	THR
1	M	9	LEU
1	M	27	THR
1	M	28	LEU
1	M	39	LEU
1	M	46	ILE
1	M	65	LEU
1	M	90	VAL

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Mol	Chain	Res	Type
1	M	98	VAL
1	M	103	ASN
1	M	105	SER
1	M	107	ILE
1	M	129	VAL
1	M	131	CYS
1	M	150	ARG
1	M	158	ARG
1	M	159	ILE
1	M	162	GLU
1	M	177	TYR
1	M	183	ILE
1	M	194	GLN
1	M	197	ASP
1	M	205	MET
1	M	206	GLU
1	M	224	LEU
1	M	228	LEU
1	M	233	ASP
1	N	12	ARG
1	N	13	LEU
1	N	16	ILE
1	N	28	LEU
1	N	39	LEU
1	N	41	ASN
1	N	68	TYR
1	N	79	LEU
1	N	88	LEU
1	N	90	VAL
1	N	107	ILE
1	N	111	THR
1	N	120	ASP
1	N	131	CYS
1	N	134	THR
1	N	140	ILE
1	N	150	ARG
1	N	163	GLU
1	N	168	ILE
1	N	170	ARG
1	N	174	ASP
1	N	192	VAL
1	N	196	THR

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Mol	Chain	Res	Type
1	N	198	LEU
1	N	199	ASP
1	N	222	THR
1	N	228	LEU
1	N	231	PHE
1	N	233	ASP
2	O	4	SER
2	O	12	ARG
2	O	20	GLN
2	O	42	ASP
2	O	46	GLN
2	O	49	LEU
2	O	82	VAL
2	O	114	VAL
2	O	117	ILE
2	O	124	MET
2	O	141	THR
2	O	147	SER
2	O	157	PHE
2	O	161	LYS
2	O	167	SER
2	O	182	SER
2	O	186	PHE
2	O	191	LYS
2	O	202	ARG
2	O	209	ILE
2	O	216	THR
2	O	218	GLU
2	O	241	LEU
2	O	252	SER
2	O	260	LYS
2	O	261	VAL
2	O	262	TYR
2	O	270	THR
2	O	297	VAL
2	O	302	ILE
2	O	304	GLU
2	O	306	THR
2	O	320	ASP
2	O	358	ASP
2	O	378	ARG
2	O	384	LEU

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Mol	Chain	Res	Type
2	O	391	SER
2	O	403	MET
2	O	408	SER
2	O	412	GLU
2	O	414	ILE
2	O	432	LEU
2	O	433	ILE
2	O	437	ASN
2	O	443	ASP
2	O	446	ASP
2	O	448	LEU
2	O	453	ILE
2	O	455	SER
2	O	459	MET
2	O	470	ARG
2	O	472	GLU
2	O	481	LEU
2	O	483	ASP
2	O	499	SER
2	O	528	ARG
2	O	530	ILE
2	O	547	VAL
2	O	549	ASP
2	O	550	VAL
2	O	561	ILE
2	O	565	GLU
2	O	569	ILE
2	O	576	SER
2	O	583	GLU
2	O	603	ILE
2	O	609	ILE
2	O	626	GLU
2	O	632	ASP
2	O	635	THR
2	O	637	ARG
2	O	638	SER
2	O	639	LYS
2	O	647	ARG
2	O	657	THR
2	O	661	VAL
2	O	662	SER
2	O	663	VAL

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Mol	Chain	Res	Type
2	O	667	LEU
2	O	690	VAL
2	O	692	THR
2	O	700	VAL
2	O	733	VAL
2	O	734	ILE
2	O	739	ASP
2	O	764	CYS
2	O	766	ASN
2	O	772	SER
2	O	777	VAL
2	O	779	ARG
2	O	782	VAL
2	O	788	SER
2	O	790	ASP
2	O	799	ASN
2	O	814	ASP
2	O	815	SER
2	O	823	VAL
2	O	843	THR
2	O	844	LYS
2	O	854	ILE
2	O	893	THR
2	O	911	SER
2	O	916	SER
2	O	929	ILE
2	O	935	THR
2	O	1000	LEU
2	O	1019	ASP
2	O	1024	GLU
2	O	1052	VAL
2	O	1057	LYS
2	O	1061	GLN
2	O	1083	GLU
2	O	1085	MET
2	O	1088	ASP
2	O	1092	THR
2	O	1094	VAL
2	O	1098	LEU
2	O	1108	ASN
2	O	1115	THR
2	O	1166	ASP

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Mol	Chain	Res	Type
2	O	1177	ARG
2	O	1186	VAL
2	O	1201	LEU
2	O	1226	THR
2	O	1235	LEU
2	O	1238	LEU
2	O	1240	ASP
2	O	1252	SER
2	O	1255	THR
2	O	1270	PHE
2	O	1273	MET
2	O	1286	THR
2	O	1296	ASP
2	O	1299	ASN
2	O	1302	THR
2	O	1319	MET
2	O	1337	ILE
3	P	15	GLU
3	P	18	ASP
3	P	20	ILE
3	P	24	LEU
3	P	32	SER
3	P	42	GLU
3	P	58	CYS
3	P	70	CYS
3	P	84	ILE
3	P	93	THR
3	P	111	THR
3	P	129	ASP
3	P	130	MET
3	P	159	ILE
3	P	166	LEU
3	P	177	ASP
3	P	180	MET
3	P	185	ILE
3	P	195	GLU
3	P	208	THR
3	P	209	ASN
3	P	211	GLU
3	P	212	THR
3	P	239	LEU
3	P	249	LEU

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Mol	Chain	Res	Type
3	P	255	LEU
3	P	256	ASP
3	P	259	ARG
3	P	289	ASP
3	P	306	LEU
3	P	312	ARG
3	P	322	ARG
3	P	341	ASN
3	P	345	LYS
3	P	346	ARG
3	P	350	SER
3	P	353	SER
3	P	357	VAL
3	P	374	LEU
3	P	394	ILE
3	P	407	VAL
3	P	416	ILE
3	P	417	ARG
3	P	421	VAL
3	P	428	THR
3	P	431	ARG
3	P	442	ILE
3	P	443	GLU
3	P	478	LEU
3	P	495	ASN
3	P	499	ILE
3	P	500	ILE
3	P	503	SER
3	P	505	ASP
3	P	506	VAL
3	P	508	LEU
3	P	519	ASN
3	P	526	VAL
3	P	528	THR
3	P	536	LEU
3	P	543	SER
3	P	568	SER
3	P	571	ASP
3	P	599	LYS
3	P	607	THR
3	P	608	CYS
3	P	627	THR

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Mol	Chain	Res	Type
3	P	639	VAL
3	P	641	ILE
3	P	645	VAL
3	P	646	ILE
3	P	649	LYS
3	P	658	GLU
3	P	672	LEU
3	P	674	THR
3	P	692	ARG
3	P	693	VAL
3	P	700	ASN
3	P	701	LEU
3	P	703	THR
3	P	704	GLU
3	P	707	ILE
3	P	718	SER
3	P	736	GLN
3	P	737	ILE
3	P	747	MET
3	P	770	LEU
3	P	775	SER
3	P	783	LEU
3	P	786	THR
3	P	788	LEU
3	P	796	LEU
3	P	797	THR
3	P	802	ASP
3	P	806	ASP
3	P	812	ASP
3	P	814	CYS
3	P	816	THR
3	P	837	ASP
3	P	847	ASP
3	P	848	VAL
3	P	849	LEU
3	P	853	THR
3	P	855	ASP
3	P	867	GLN
3	P	878	ASP
3	P	884	SER
3	P	891	ASP
3	P	895	CYS

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Mol	Chain	Res	Type
3	P	908	ILE
3	P	918	ILE
3	P	922	SER
3	P	928	THR
3	P	932	MET
3	P	934	THR
3	P	935	PHE
3	P	937	ILE
3	P	949	SER
3	P	957	SER
3	P	985	ILE
3	P	1021	ASP
3	P	1031	VAL
3	P	1032	SER
3	P	1064	SER
3	P	1094	ASP
3	P	1098	GLN
3	P	1134	ILE
3	P	1138	LEU
3	P	1143	ASP
3	P	1159	ILE
3	P	1164	SER
3	P	1212	ASP
3	P	1221	LEU
3	P	1226	VAL
3	P	1230	THR
3	P	1250	ASP
3	P	1272	SER
3	P	1285	VAL
3	P	1293	GLU
3	P	1305	ASP
3	P	1307	LEU
3	P	1318	SER
3	P	1333	THR
3	P	1353	VAL
3	P	1356	LEU
3	P	1361	THR
4	Q	6	VAL
4	Q	8	ASP
4	Q	28	ARG
4	Q	43	ASN
4	Q	69	ARG

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Mol	Chain	Res	Type
4	Q	70	GLN
5	R	84	LEU
5	R	85	SER
5	R	89	SER
5	R	91	ILE
5	R	99	ARG
5	R	105	MET
5	R	110	LEU
5	R	133	SER
5	R	215	GLU
5	R	230	VAL
5	R	273	MET
5	R	291	CYS
5	R	306	PHE
5	R	309	ASN
5	R	322	MET
5	R	327	SER
5	R	332	ASP
5	R	333	VAL
5	R	334	SER
5	R	343	LYS
5	R	344	LEU
5	R	349	GLU
5	R	353	LEU
5	R	354	THR
5	R	355	ILE
5	R	388	ILE
5	R	402	LEU
5	R	403	ASP
5	R	423	ARG
5	R	441	ARG
5	R	449	THR
5	R	451	ARG
5	R	454	VAL
5	R	459	THR
5	R	461	ASN
5	R	493	LYS
5	R	506	SER
5	R	513	ASP
5	R	515	GLU
5	R	524	GLU
5	R	533	ASP

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Mol	Chain	Res	Type
5	R	540	LEU
5	R	561	MET
5	R	568	ASN
5	R	584	ARG
5	R	609	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (152) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	128	HIS
1	A	132	HIS
1	A	208	ASN
1	A	227	GLN
1	B	18	GLN
1	B	23	HIS
1	B	37	HIS
1	B	75	GLN
1	B	84	ASN
1	B	147	GLN
1	B	194	GLN
2	C	46	GLN
2	C	150	HIS
2	C	314	ASN
2	C	330	HIS
2	C	406	ASN
2	C	494	ASN
2	C	568	ASN
2	C	573	ASN
2	C	618	GLN
2	C	677	ASN
2	C	688	GLN
2	C	766	ASN
2	C	824	GLN
2	C	856	ASN
2	C	894	GLN
2	C	1116	HIS
2	C	1209	GLN
2	C	1220	GLN
2	C	1312	ASN
3	D	113	HIS
3	D	232	ASN

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Mol	Chain	Res	Type
3	D	341	ASN
3	D	419	HIS
3	D	465	GLN
3	D	593	ASN
3	D	690	ASN
3	D	700	ASN
3	D	720	ASN
3	D	777	HIS
3	D	875	ASN
3	D	954	ASN
3	D	1010	GLN
3	D	1098	GLN
3	D	1114	GLN
3	D	1197	ASN
3	D	1244	GLN
3	D	1259	GLN
3	D	1366	HIS
4	E	43	ASN
5	F	129	GLN
5	F	227	GLN
5	F	362	ASN
5	F	409	ASN
5	F	455	HIS
1	G	66	HIS
1	G	208	ASN
1	H	18	GLN
1	H	75	GLN
2	I	46	GLN
2	I	450	ASN
2	I	513	GLN
2	I	554	HIS
2	I	568	ASN
2	I	573	ASN
2	I	658	GLN
2	I	686	GLN
2	I	725	GLN
2	I	766	ASN
2	I	856	ASN
2	I	1108	ASN
2	I	1116	HIS
2	I	1209	GLN
2	I	1256	GLN

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Mol	Chain	Res	Type
2	I	1299	ASN
3	J	158	GLN
3	J	209	ASN
3	J	232	ASN
3	J	294	ASN
3	J	300	GLN
3	J	335	GLN
3	J	450	HIS
3	J	458	ASN
3	J	593	ASN
3	J	690	ASN
3	J	708	ASN
3	J	736	GLN
3	J	921	GLN
3	J	954	ASN
3	J	1023	HIS
3	J	1098	GLN
3	J	1114	GLN
3	J	1195	GLN
3	J	1244	GLN
3	J	1326	GLN
3	J	1350	ASN
4	K	43	ASN
4	K	60	ASN
4	K	73	GLN
5	L	129	GLN
5	L	169	ASN
5	L	383	ASN
5	L	455	HIS
5	L	464	ASN
5	L	600	HIS
1	M	41	ASN
1	M	66	HIS
1	N	41	ASN
1	N	75	GLN
1	N	128	HIS
1	N	208	ASN
2	O	150	HIS
2	O	219	GLN
2	O	387	ASN
2	O	447	HIS
2	O	554	HIS

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Mol	Chain	Res	Type
2	O	568	ASN
2	O	686	GLN
2	O	766	ASN
2	O	798	GLN
2	O	808	ASN
2	O	832	HIS
2	O	1017	GLN
2	O	1099	ASN
2	O	1220	GLN
2	O	1307	ASN
2	O	1313	HIS
3	P	113	HIS
3	P	164	GLN
3	P	335	GLN
3	P	364	HIS
3	P	419	HIS
3	P	435	GLN
3	P	545	HIS
3	P	690	ASN
3	P	720	ASN
3	P	736	GLN
3	P	739	GLN
3	P	777	HIS
3	P	1098	GLN
3	P	1114	GLN
3	P	1326	GLN
3	P	1366	HIS
4	Q	43	ASN
5	R	128	ASN
5	R	129	GLN
5	R	309	ASN
5	R	342	GLN
5	R	383	ASN
5	R	455	HIS
5	R	472	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	3	3/4 (75%)	1 (33%)	1 (33%)
8	6	3/4 (75%)	1 (33%)	1 (33%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	9	3/4 (75%)	1 (33%)	1 (33%)
All	All	9/12 (75%)	3 (33%)	3 (33%)

All (3) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
8	3	15	G
8	6	15	G
8	9	15	G

All (3) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
8	3	13	GTP
8	6	13	GTP
8	9	13	GTP

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
6	1	3
7	2	1
6	4	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	51:DC	O3'	52:DT	P	3.86
1	1	51:DC	O3'	52:DT	P	3.85
1	1	46:DG	O3'	47:DC	P	3.49
1	2	12:DG	O3'	13:DA	P	2.97
1	1	36:DT	O3'	37:DA	P	2.64

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	A	230/242 (95%)	0.03	4 (1%) 73 67	162, 207, 238, 299	0
1	B	228/242 (94%)	-0.11	6 (2%) 59 54	165, 211, 254, 284	0
1	G	230/242 (95%)	0.14	18 (7%) 16 19	175, 216, 259, 292	0
1	H	228/242 (94%)	0.45	18 (7%) 15 18	200, 264, 307, 325	0
1	M	230/242 (95%)	0.03	13 (5%) 27 27	155, 186, 230, 311	0
1	N	228/242 (94%)	-0.14	6 (2%) 59 54	162, 205, 248, 280	0
2	C	1341/1342 (99%)	0.06	49 (3%) 45 42	126, 243, 333, 427	0
2	I	1341/1342 (99%)	-0.03	29 (2%) 65 60	142, 196, 276, 345	0
2	O	1341/1342 (99%)	0.02	48 (3%) 46 43	126, 202, 287, 327	0
3	D	1362/1407 (96%)	0.11	69 (5%) 32 31	129, 204, 384, 437	0
3	J	1362/1407 (96%)	0.32	125 (9%) 11 15	145, 213, 344, 397	0
3	P	1362/1407 (96%)	0.24	105 (7%) 16 19	133, 223, 391, 441	0
4	E	90/90 (100%)	0.20	9 (10%) 9 14	138, 184, 398, 452	0
4	K	90/90 (100%)	0.30	8 (8%) 12 16	165, 213, 389, 436	0
4	Q	90/90 (100%)	0.36	9 (10%) 9 14	157, 202, 400, 463	0
5	F	497/628 (79%)	0.59	83 (16%) 2 8	176, 304, 513, 589	0
5	L	497/628 (79%)	0.29	59 (11%) 6 11	171, 277, 369, 399	0
5	R	497/628 (79%)	0.48	62 (12%) 5 10	170, 322, 414, 449	0
6	1	49/49 (100%)	0.02	2 (4%) 41 39	206, 263, 311, 333	0
6	4	49/49 (100%)	0.20	2 (4%) 41 39	50, 261, 289, 312	0
6	7	49/49 (100%)	0.41	4 (8%) 14 18	214, 295, 334, 336	0
7	2	49/49 (100%)	0.23	3 (6%) 25 25	186, 272, 334, 388	0
7	5	49/49 (100%)	0.15	1 (2%) 68 63	174, 257, 298, 371	0
7	8	49/49 (100%)	0.10	0 100 100	229, 300, 347, 427	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
8	3	3/4 (75%)	0.15	0	100	100	310, 310, 316, 331	0
8	6	3/4 (75%)	0.71	0	100	100	242, 242, 251, 272	0
8	9	3/4 (75%)	0.84	0	100	100	257, 257, 296, 373	0
All	All	11547/12159 (94%)	0.16	732 (6%)	23	24	50, 219, 383, 589	0

All (732) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	R	326	TRP	13.3
5	R	325	PRO	11.0
3	D	1054	THR	9.7
5	F	328	GLU	8.8
3	P	153	ASN	8.7
3	J	971	GLY	8.7
3	J	1043	GLY	8.7
5	F	327	SER	8.7
3	P	959	LYS	8.6
3	D	852	GLY	8.4
5	R	324	LYS	8.4
3	P	982	LEU	8.4
3	J	1045	THR	8.3
3	P	960	LEU	8.2
3	D	1171	GLY	8.0
5	F	320	ILE	7.7
5	F	319	ALA	7.6
3	P	951	GLN	7.6
3	P	995	TYR	7.5
3	J	968	ASN	7.5
5	F	321	ALA	7.5
3	J	992	LYS	7.3
5	F	332	ASP	7.2
3	J	1042	ASP	7.2
3	J	1071	GLY	7.1
2	O	282	VAL	6.9
5	F	110	LEU	6.7
3	P	961	SER	6.7
5	R	332	ASP	6.7
5	F	301	ASN	6.6
3	P	1007	ASP	6.6
3	P	1016	THR	6.5
5	R	327	SER	6.5

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Mol	Chain	Res	Type	RSRZ
5	F	211	SER	6.4
5	L	135	ALA	6.3
3	P	958	ILE	6.3
3	D	1083	ALA	6.3
3	J	714	GLU	6.2
3	J	1006	GLY	6.2
5	F	318	ALA	6.0
5	L	212	ILE	5.9
3	D	1084	GLN	5.9
3	D	971	GLY	5.9
3	P	950	ILE	5.9
3	J	153	ASN	5.8
5	F	315	TRP	5.8
5	F	299	LYS	5.8
5	F	331	HIS	5.8
3	P	1111	ASP	5.7
5	F	212	ILE	5.7
1	H	91	ARG	5.7
3	P	1008	GLY	5.7
5	F	326	TRP	5.6
5	R	317	ASN	5.6
5	R	318	ALA	5.6
5	F	325	PRO	5.6
3	P	1110	GLU	5.6
3	P	983	LYS	5.6
5	R	319	ALA	5.5
5	R	335	GLU	5.5
5	R	238	LYS	5.5
5	F	302	PHE	5.5
3	P	1006	GLY	5.5
5	F	317	ASN	5.3
3	D	855	ASP	5.3
3	J	715	LYS	5.3
3	J	854	ALA	5.2
5	R	156	ALA	5.2
1	H	122	GLU	5.2
3	D	1052	GLU	5.2
5	R	323	ASN	5.2
4	Q	90	ARG	5.2
5	R	328	GLU	5.2
3	J	993	GLU	5.2
5	F	244	THR	5.2

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Mol	Chain	Res	Type	RSRZ
5	F	330	LEU	5.1
5	F	303	ILE	5.1
5	F	214	PRO	5.1
5	R	244	THR	5.1
5	F	309	ASN	5.1
3	J	958	ILE	5.0
3	J	991	THR	5.0
5	F	304	THR	5.0
5	R	334	SER	5.0
5	F	305	LEU	5.0
3	D	1051	ASP	4.9
3	J	148	GLU	4.9
3	D	154	LEU	4.9
5	F	247	GLU	4.9
3	J	1083	ALA	4.9
3	J	959	LYS	4.9
5	F	210	ASN	4.9
3	J	1007	ASP	4.9
2	I	2	VAL	4.8
5	R	333	VAL	4.8
3	J	969	SER	4.8
5	F	311	THR	4.8
5	R	331	HIS	4.8
3	P	1084	GLN	4.8
3	J	1084	GLN	4.8
5	L	213	ASP	4.8
5	R	322	MET	4.8
3	D	715	LYS	4.8
2	C	235	ASN	4.7
3	J	1044	GLN	4.7
3	D	1127	GLU	4.7
3	P	981	GLU	4.7
3	J	972	LYS	4.7
3	P	287	ALA	4.7
5	L	244	THR	4.7
2	O	853	ASP	4.7
5	L	243	ALA	4.7
3	D	1055	GLY	4.7
2	C	114	VAL	4.7
3	P	1072	LYS	4.6
5	L	327	SER	4.6
3	D	714	GLU	4.6

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Mol	Chain	Res	Type	RSRZ
3	J	1117	SER	4.6
5	L	247	GLU	4.6
3	D	854	ALA	4.6
3	P	1083	ALA	4.6
3	D	1104	LYS	4.5
1	H	90	VAL	4.5
5	F	307	THR	4.5
5	F	310	GLU	4.5
3	P	991	THR	4.5
5	F	215	GLU	4.5
3	J	154	LEU	4.4
2	I	108	GLU	4.4
3	D	1032	SER	4.4
5	F	291	CYS	4.4
5	R	237	ALA	4.4
1	G	95	LYS	4.4
3	P	154	LEU	4.4
5	R	155	GLU	4.3
2	C	113	THR	4.3
1	G	90	VAL	4.3
5	R	321	ALA	4.3
4	Q	86	ILE	4.3
5	F	213	ASP	4.3
5	L	313	ASP	4.3
3	J	998	PRO	4.3
2	O	493	ILE	4.3
3	J	1114	GLN	4.3
2	C	232	ILE	4.3
2	C	333	ILE	4.3
3	J	1115	ILE	4.3
5	R	170	ALA	4.2
3	J	1074	LEU	4.2
3	P	152	THR	4.2
1	G	92	VAL	4.2
5	F	329	LYS	4.2
2	C	234	ASP	4.2
3	P	1017	VAL	4.1
3	J	990	ARG	4.1
1	M	191	ARG	4.1
2	O	119	GLU	4.1
3	J	1046	ILE	4.1
3	J	1129	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
3	P	1057	SER	4.1
5	F	158	LEU	4.1
2	I	109	ALA	4.1
3	D	1169	THR	4.1
3	P	1015	GLU	4.1
2	I	376	PRO	4.1
5	L	328	GLU	4.1
1	G	93	GLN	4.1
3	J	1128	SER	4.1
3	J	1009	GLU	4.0
2	O	281	ASP	4.0
3	P	952	VAL	4.0
5	F	297	MET	4.0
3	P	1073	ASP	4.0
5	F	250	LEU	4.0
5	F	300	LYS	3.9
5	L	157	ARG	3.9
2	O	488	MET	3.9
5	R	247	GLU	3.9
3	J	1005	LYS	3.9
5	R	243	ALA	3.9
3	D	972	LYS	3.9
2	O	622	ASN	3.9
5	R	336	GLU	3.9
3	P	949	SER	3.9
3	D	851	PRO	3.9
5	R	316	PHE	3.9
3	D	1082	ASP	3.9
1	A	90	VAL	3.9
5	R	329	LYS	3.8
3	J	1076	PRO	3.8
2	O	485	ASP	3.8
3	D	1031	VAL	3.8
5	F	248	GLU	3.8
2	O	484	LEU	3.8
3	J	955	LYS	3.8
3	P	1013	GLY	3.8
3	P	1075	ARG	3.8
3	P	1108	GLN	3.8
2	I	241	LEU	3.8
3	D	1203	ARG	3.8
5	R	330	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
2	C	1001	GLY	3.8
5	F	308	GLY	3.8
1	B	90	VAL	3.8
3	P	1014	GLY	3.8
5	F	295	CYS	3.7
2	C	332	ARG	3.7
3	P	957	SER	3.7
5	L	253	SER	3.7
1	G	94	GLY	3.7
5	F	155	GLU	3.7
5	F	306	PHE	3.7
2	C	231	GLU	3.7
3	D	1192	LYS	3.7
5	R	315	TRP	3.7
3	D	853	THR	3.7
5	F	298	PRO	3.6
4	E	87	ALA	3.6
3	D	1085	GLY	3.6
3	P	994	SER	3.6
3	P	715	LYS	3.6
3	J	1127	GLU	3.6
3	J	1085	GLY	3.6
4	Q	85	ALA	3.6
3	D	1086	ASN	3.6
3	P	286	ALA	3.6
3	P	1048	ARG	3.6
5	F	154	GLU	3.6
1	H	210	THR	3.6
5	F	316	PHE	3.6
6	7	37	DA	3.6
3	P	848	VAL	3.6
5	F	322	MET	3.6
3	J	563	LEU	3.5
3	P	955	LYS	3.5
5	L	237	ALA	3.5
3	J	149	GLY	3.5
5	F	294	GLN	3.5
5	R	356	GLU	3.5
3	D	1022	PRO	3.5
4	Q	84	THR	3.5
5	L	214	PRO	3.5
3	P	846	GLU	3.5

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Mol	Chain	Res	Type	RSRZ
5	F	312	SER	3.5
1	H	131	CYS	3.5
3	J	708	ASN	3.5
2	C	233	ARG	3.5
3	D	949	SER	3.5
3	D	1033	GLY	3.5
2	O	492	MET	3.5
2	C	65	ASN	3.5
3	J	660	GLU	3.5
3	J	1086	ASN	3.5
3	J	1010	GLN	3.5
3	J	1116	SER	3.4
5	R	354	THR	3.4
3	J	713	GLU	3.4
5	L	211	SER	3.4
3	D	1170	LYS	3.4
5	F	293	GLU	3.4
5	R	296	LYS	3.4
4	E	90	ARG	3.4
5	R	338	HIS	3.4
5	L	136	GLU	3.4
2	I	110	PRO	3.4
5	L	154	GLU	3.4
3	P	1109	LEU	3.4
1	M	98	VAL	3.3
3	D	1053	LEU	3.3
3	D	1114	GLN	3.3
5	L	299	LYS	3.3
3	P	1050	THR	3.3
1	H	97	GLU	3.3
2	O	489	PRO	3.3
5	F	111	LEU	3.3
1	B	92	VAL	3.3
2	I	375	PRO	3.3
5	L	238	LYS	3.3
3	D	967	VAL	3.3
3	D	1096	PRO	3.3
5	R	339	ARG	3.3
3	D	968	ASN	3.3
3	J	1054	THR	3.3
3	P	151	MET	3.3
5	R	311	THR	3.3

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Mol	Chain	Res	Type	RSRZ
1	B	91	ARG	3.3
5	L	288	MET	3.3
5	L	242	HIS	3.3
1	H	109	PRO	3.3
3	J	979	ASN	3.3
3	P	1112	GLY	3.2
3	J	1047	THR	3.2
2	I	1090	ASN	3.2
3	J	999	TYR	3.2
3	P	1038	THR	3.2
4	K	91	ARG	3.2
5	F	323	ASN	3.2
3	J	983	LYS	3.2
1	H	93	GLN	3.2
3	J	1012	ALA	3.2
3	P	714	GLU	3.2
5	L	312	SER	3.2
5	F	157	ARG	3.2
3	J	1082	ASP	3.2
5	F	289	LYS	3.2
2	C	621	SER	3.2
3	J	671	GLY	3.2
3	J	1008	GLY	3.2
5	R	242	HIS	3.2
3	J	973	LEU	3.2
3	P	149	GLY	3.2
5	F	109	GLU	3.2
3	P	716	GLN	3.2
5	F	292	VAL	3.2
2	C	748	ILE	3.1
1	H	92	VAL	3.1
3	J	152	THR	3.1
3	D	716	GLN	3.1
3	P	1009	GLU	3.1
2	C	64	GLY	3.1
3	P	993	GLU	3.1
3	P	990	ARG	3.1
3	J	982	LEU	3.1
3	P	1071	GLY	3.1
1	G	9	LEU	3.1
3	D	948	SER	3.1
5	F	218	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
5	L	251	LYS	3.1
3	P	956	GLY	3.1
2	O	490	GLN	3.1
1	B	122	GLU	3.1
1	H	176	CYS	3.1
1	B	95	LYS	3.1
3	P	1012	ALA	3.1
3	P	1375	ALA	3.1
3	J	562	GLU	3.0
5	F	166	VAL	3.0
5	L	150	ARG	3.0
2	C	443	ASP	3.0
2	O	629	PHE	3.0
3	J	997	VAL	3.0
3	P	1360	GLY	3.0
5	F	287	ILE	3.0
3	D	1056	LEU	3.0
3	D	850	LYS	3.0
3	P	1074	LEU	3.0
3	D	970	SER	3.0
3	J	1067	ARG	3.0
5	L	252	LEU	3.0
1	M	97	GLU	3.0
3	P	877	VAL	3.0
3	J	710	ASP	3.0
3	J	672	LEU	3.0
2	O	65	ASN	3.0
2	C	548	ARG	3.0
3	J	706	VAL	2.9
3	P	992	LYS	2.9
3	D	1094	ASP	2.9
3	J	978	ARG	2.9
5	L	250	LEU	2.9
3	J	560	ASN	2.9
3	J	586	GLY	2.9
2	O	234	ASP	2.9
3	J	150	GLY	2.9
2	C	743	PRO	2.9
2	O	1136	GLN	2.9
5	L	161	LEU	2.9
5	F	79	ALA	2.9
2	C	442	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
6	7	19	DA	2.9
4	Q	82	ALA	2.9
3	D	766	GLY	2.9
4	E	85	ALA	2.9
1	G	8	PHE	2.9
4	K	39	VAL	2.9
2	C	236	LYS	2.9
5	R	157	ARG	2.9
5	R	294	GLN	2.9
1	A	92	VAL	2.9
3	J	1011	VAL	2.9
1	G	89	ALA	2.9
3	J	1053	LEU	2.8
5	L	233	ASP	2.8
5	L	325	PRO	2.8
5	L	160	ASP	2.8
2	C	292	ILE	2.8
4	E	86	ILE	2.8
2	O	108	GLU	2.8
3	J	1001	ALA	2.8
5	R	160	ASP	2.8
1	A	89	ALA	2.8
4	E	91	ARG	2.8
2	I	113	THR	2.8
3	D	1087	ASP	2.8
3	P	1271	SER	2.8
1	G	192	VAL	2.8
5	F	156	ALA	2.8
5	R	246	GLN	2.8
3	D	713	GLU	2.8
5	R	337	VAL	2.8
5	L	331	HIS	2.8
5	L	316	PHE	2.8
5	F	290	LEU	2.8
3	P	1166	GLY	2.8
3	J	1015	GLU	2.8
5	L	246	GLN	2.8
2	O	235	ASN	2.8
3	J	670	SER	2.8
3	J	852	GLY	2.8
5	F	288	MET	2.8
5	L	156	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
3	P	1051	ASP	2.8
2	C	746	ALA	2.8
3	J	962	ASN	2.8
5	F	83	VAL	2.7
2	O	483	ASP	2.7
3	J	1072	LYS	2.7
3	P	1205	GLU	2.7
1	M	118	ASP	2.7
2	I	942	ASP	2.7
3	D	946	ALA	2.7
2	O	107	ARG	2.7
5	L	165	PHE	2.7
3	J	984	LEU	2.7
2	C	441	GLU	2.7
3	P	1082	ASP	2.7
3	J	989	GLY	2.7
3	P	1037	PHE	2.7
4	Q	83	VAL	2.7
2	C	318	SER	2.7
5	F	80	ALA	2.7
3	J	557	LYS	2.7
5	R	168	PRO	2.7
3	J	956	GLY	2.7
1	H	123	ILE	2.7
2	C	63	SER	2.7
2	C	298	ALA	2.7
3	J	970	SER	2.7
3	P	1373	ARG	2.7
1	M	99	ILE	2.7
1	N	95	LYS	2.7
2	C	115	LYS	2.7
1	M	121	VAL	2.7
2	O	116	ASP	2.7
3	J	1375	ALA	2.7
3	J	986	ASP	2.7
3	J	996	LYS	2.7
5	F	324	LYS	2.7
4	K	40	PRO	2.7
2	O	1137	GLU	2.7
2	I	374	GLU	2.6
3	J	82	GLY	2.6
3	P	1039	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
3	J	1068	THR	2.6
3	P	872	LEU	2.6
1	N	96	ASP	2.6
5	L	330	LEU	2.6
5	R	295	CYS	2.6
3	P	1093	THR	2.6
3	J	974	VAL	2.6
3	P	1023	HIS	2.6
1	G	32	GLU	2.6
3	D	877	VAL	2.6
3	D	1097	ALA	2.6
3	P	150	GLY	2.6
4	E	88	GLU	2.6
2	O	117	ILE	2.6
3	J	957	SER	2.6
3	J	1062	LEU	2.6
2	I	415	GLU	2.6
2	I	107	ARG	2.6
3	J	1073	ASP	2.6
5	R	248	GLU	2.6
3	P	288	PRO	2.6
2	C	111	GLU	2.6
5	L	210	ASN	2.6
3	D	856	ILE	2.6
3	D	1034	PHE	2.6
3	D	707	ILE	2.5
5	L	171	GLU	2.5
3	J	518	VAL	2.5
2	I	1014	LEU	2.5
2	I	264	GLU	2.5
5	R	398	GLY	2.5
2	O	854	ILE	2.5
2	C	1180	MET	2.5
2	O	103	VAL	2.5
2	O	1282	GLY	2.5
2	I	850	ILE	2.5
3	D	155	GLU	2.5
1	H	70	THR	2.5
5	R	355	ILE	2.5
3	P	984	LEU	2.5
2	C	21	VAL	2.5
2	C	484	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
3	J	716	GLN	2.5
3	P	1024	THR	2.5
3	P	986	ASP	2.5
5	F	602	SER	2.5
1	M	134	THR	2.5
1	N	98	VAL	2.5
5	L	153	ALA	2.5
2	O	985	GLU	2.5
5	F	246	GLN	2.5
5	L	254	GLU	2.5
2	I	853	ASP	2.5
3	P	1094	ASP	2.5
3	P	1157	ALA	2.5
3	P	1167	LYS	2.4
3	D	672	LEU	2.4
3	P	1049	GLN	2.4
4	K	90	ARG	2.4
3	P	1011	VAL	2.4
4	E	82	ALA	2.4
2	I	606	LEU	2.4
5	R	320	ILE	2.4
3	P	985	ILE	2.4
2	O	118	LYS	2.4
5	F	219	GLU	2.4
1	N	13	LEU	2.4
2	I	854	ILE	2.4
3	J	967	VAL	2.4
1	H	89	ALA	2.4
2	C	629	PHE	2.4
3	J	879	ALA	2.4
1	G	105	SER	2.4
1	M	92	VAL	2.4
2	C	106	GLU	2.4
3	P	987	GLU	2.4
2	C	1151	LEU	2.4
5	R	357	GLN	2.4
2	I	1015	ALA	2.4
3	J	954	ASN	2.4
3	J	1034	PHE	2.4
2	I	1277	ALA	2.4
5	F	165	PHE	2.4
5	L	583	THR	2.4

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Mol	Chain	Res	Type	RSRZ
2	O	623	LEU	2.4
4	K	59	ILE	2.4
1	M	120	ASP	2.4
1	H	136	GLU	2.4
3	J	826	ILE	2.4
2	O	273	HIS	2.4
1	G	100	LEU	2.4
1	M	73	GLY	2.4
5	R	214	PRO	2.4
2	I	3	TYR	2.3
2	O	1159	VAL	2.3
5	L	311	THR	2.3
5	F	548	LEU	2.3
5	F	238	LYS	2.3
5	F	296	LYS	2.3
1	G	193	GLU	2.3
5	F	237	ALA	2.3
3	J	1130	GLY	2.3
1	G	194	GLN	2.3
3	J	1376	GLY	2.3
5	L	162	ILE	2.3
4	Q	87	ALA	2.3
5	R	245	ALA	2.3
1	N	92	VAL	2.3
1	G	196	THR	2.3
2	C	289	VAL	2.3
3	J	827	GLU	2.3
1	G	139	SER	2.3
2	O	852	ALA	2.3
5	L	234	THR	2.3
1	M	96	ASP	2.3
6	7	18	DC	2.3
2	I	1013	GLN	2.3
5	F	314	THR	2.3
3	J	564	VAL	2.3
5	L	79	ALA	2.3
5	L	158	LEU	2.3
3	P	1085	GLY	2.3
5	R	239	GLY	2.3
3	P	1374	ALA	2.3
5	F	253	SER	2.3
5	L	82	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
2	C	1152	GLY	2.3
3	J	994	SER	2.3
3	J	1013	GLY	2.3
4	E	89	GLY	2.3
2	O	1003	THR	2.3
3	D	1112	GLY	2.3
3	J	987	GLU	2.3
3	P	176	PHE	2.3
3	P	1272	SER	2.3
2	C	1002	LEU	2.3
3	D	857	LEU	2.3
3	J	433	GLY	2.3
5	L	291	CYS	2.3
6	4	44	DG	2.3
3	J	1195	GLN	2.3
2	O	274	ILE	2.3
3	J	707	ILE	2.3
4	Q	39	VAL	2.3
3	P	996	LYS	2.3
3	J	704	GLU	2.3
4	K	89	GLY	2.3
7	2	41	DG	2.3
3	D	951	GLN	2.2
2	O	307	GLY	2.2
5	F	243	ALA	2.2
3	P	1276	GLU	2.2
2	I	1017	GLN	2.2
3	D	153	ASN	2.2
3	J	853	THR	2.2
5	L	314	THR	2.2
5	L	329	LYS	2.2
2	O	272	ARG	2.2
5	R	159	SER	2.2
4	Q	89	GLY	2.2
5	F	355	ILE	2.2
5	L	81	ALA	2.2
2	O	66	SER	2.2
3	J	966	VAL	2.2
3	P	1204	VAL	2.2
5	F	286	LEU	2.2
3	D	1030	GLU	2.2
3	D	1212	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
5	R	171	GLU	2.2
3	P	876	SER	2.2
5	R	605	GLU	2.2
2	O	277	LEU	2.2
3	P	1125	PRO	2.2
6	1	46	DG	2.2
5	R	234	THR	2.2
3	P	847	ASP	2.2
2	O	306	THR	2.2
2	O	745	GLU	2.2
5	R	152	GLU	2.2
2	C	316	GLU	2.2
1	H	105	SER	2.2
2	O	241	LEU	2.2
3	D	1042	ASP	2.2
5	F	251	LYS	2.2
6	1	47	DC	2.2
3	P	964	LYS	2.2
1	H	67	GLU	2.2
3	J	556	GLU	2.2
2	C	112	GLY	2.2
5	L	155	GLU	2.2
5	R	233	ASP	2.2
1	H	110	VAL	2.2
3	D	149	GLY	2.2
5	L	292	VAL	2.2
3	D	1063	ASP	2.2
3	P	1068	THR	2.2
5	L	326	TRP	2.2
3	J	1184	ASP	2.2
3	P	172	PHE	2.2
2	O	625	GLU	2.1
3	J	1373	ARG	2.1
3	J	758	PRO	2.1
3	P	155	GLU	2.1
5	F	217	ALA	2.1
5	L	239	GLY	2.1
2	I	1159	VAL	2.1
2	O	1002	LEU	2.1
1	H	71	LYS	2.1
3	J	855	ASP	2.1
3	J	1094	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
7	2	40	DT	2.1
2	C	747	GLY	2.1
7	2	21	DG	2.1
2	C	641	GLU	2.1
3	P	1158	GLU	2.1
5	L	159	SER	2.1
2	I	963	GLU	2.1
3	D	818	GLU	2.1
2	C	479	LEU	2.1
2	C	624	ASP	2.1
3	J	965	SER	2.1
2	O	278	GLU	2.1
5	R	310	GLU	2.1
7	5	22	DA	2.1
5	L	80	ALA	2.1
5	R	290	LEU	2.1
5	R	602	SER	2.1
1	M	95	LYS	2.1
3	J	1341	ARG	2.1
3	P	1005	LYS	2.1
5	L	245	ALA	2.1
2	O	322	LEU	2.1
3	J	147	ILE	2.1
2	I	1282	GLY	2.1
2	C	623	LEU	2.1
3	D	706	VAL	2.1
5	L	151	VAL	2.1
2	C	105	TYR	2.1
3	D	705	THR	2.1
3	D	848	VAL	2.1
1	G	110	VAL	2.1
5	F	354	THR	2.1
1	A	123	ILE	2.1
1	G	98	VAL	2.1
1	N	94	GLY	2.1
5	R	161	LEU	2.1
3	J	178	ALA	2.1
1	M	100	LEU	2.1
2	C	251	ALA	2.1
3	J	488	ASN	2.1
3	D	1103	GLY	2.1
5	F	356	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
2	C	985	GLU	2.0
2	O	703	GLY	2.0
3	P	912	GLY	2.0
3	J	659	ALA	2.0
2	I	1164	PHE	2.0
4	E	83	VAL	2.0
4	K	86	ILE	2.0
5	R	236	LYS	2.0
2	C	110	PRO	2.0
3	P	954	ASN	2.0
2	O	743	PRO	2.0
3	J	661	VAL	2.0
6	7	27	DC	2.0
2	C	334	GLU	2.0
3	P	1376	GLY	2.0
2	O	720	ARG	2.0
3	D	176	PHE	2.0
4	K	88	GLU	2.0
3	P	962	ASN	2.0
1	B	16	ILE	2.0
2	I	145	ILE	2.0
2	C	1153	ALA	2.0
3	D	436	ALA	2.0
3	J	156	ARG	2.0
3	P	875	ASN	2.0
6	4	36	DT	2.0
5	L	164	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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
9	MG	C	1401	1/1	0.91	0.33	1.35	218,218,218,218	0
10	ZN	D	1502	1/1	0.97	0.21	1.32	172,172,172,172	0
10	ZN	J	1502	1/1	0.97	0.16	0.01	196,196,196,196	0
10	ZN	P	1502	1/1	0.90	0.15	-0.26	204,204,204,204	0
9	MG	P	1503	1/1	0.98	0.15	-1.08	187,187,187,187	0
10	ZN	P	1501	1/1	0.96	0.08	-1.40	252,252,252,252	0
10	ZN	J	1501	1/1	0.72	0.13	-1.70	218,218,218,218	0
9	MG	J	1503	1/1	0.97	0.19	-1.76	204,204,204,204	0
10	ZN	D	1501	1/1	0.83	0.11	-1.77	215,215,215,215	0

6.5 Other polymers

There are no such residues in this entry.