



Full wwPDB EM Validation Report ⓘ

May 18, 2025 – 05:28 PM EDT

PDB ID : 6M7J / pdb_00006m7j
EMDB ID : EMD-9047
Title : Mycobacterium tuberculosis RNAP with RbpA/us fork and Corallopoyronin
Authors : Darst, S.A.; Campbell, E.A.; Boyaci Selcuk, H.; Chen, J.
Deposited on : 2018-08-20
Resolution : 4.40 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

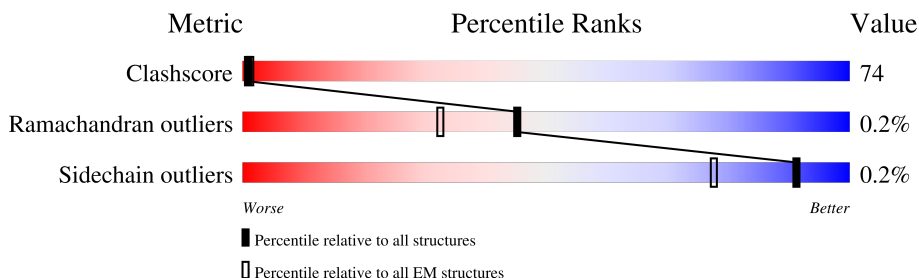
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 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.



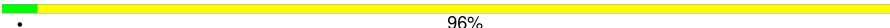
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	347	
1	B	347	
2	C	1179	
3	D	1326	
4	E	110	
5	F	531	
6	J	111	
7	O	31	

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Mol	Chain	Length	Quality of chain
8	P	26	 96%

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
11	C0L	D	1404	-	-	X	-

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 27223 atoms, of which 40 are hydrogens and 0 are deuteriums.

In the tables below, 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					AltConf	Trace
1	A	225	Total	C	N	O	S	0	0
			1716	1080	296	338	2		
1	B	237	Total	C	N	O	S	0	0
			1759	1112	298	346	3		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	1111	Total	C	N	O	S	0	0
			8586	5378	1507	1662	39		

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1179	LEU	-	expression tag	UNP V9Z879
C	1180	ALA	-	expression tag	UNP V9Z879
C	1181	ARG	-	expression tag	UNP V9Z879
C	1182	HIS	-	expression tag	UNP V9Z879
C	1183	GLY	-	expression tag	UNP V9Z879
C	1184	GLY	-	expression tag	UNP V9Z879
C	1185	SER	-	expression tag	UNP V9Z879

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	1266	Total	C	N	O	S	0	0
			9873	6184	1794	1853	42		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	GLY	-	expression tag	UNP A5U053
D	0	ALA	-	expression tag	UNP A5U053

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1317	HIS	-	expression tag	UNP A5U053
D	1318	HIS	-	expression tag	UNP A5U053
D	1319	HIS	-	expression tag	UNP A5U053
D	1320	HIS	-	expression tag	UNP A5U053
D	1321	HIS	-	expression tag	UNP A5U053
D	1322	HIS	-	expression tag	UNP A5U053
D	1323	HIS	-	expression tag	UNP A5U053
D	1324	HIS	-	expression tag	UNP A5U053

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

Mol	Chain	Residues	Atoms				AltConf	Trace
4	E	83	Total	C	N	O	0	0
			649	414	108	127		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	1	GLY	-	expression tag	UNP A0A0T9N9K3

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

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	319	Total	C	N	O	S	0	0
			2518	1571	456	482	9		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-2	GLY	-	expression tag	UNP P9WGI0
F	-1	PRO	-	expression tag	UNP P9WGI0
F	0	HIS	-	expression tag	UNP P9WGI0

- Molecule 6 is a protein called RNA polymerase-binding protein RbpA.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	J	108	Total	C	N	O	S	0	0
			881	543	168	167	3		

- Molecule 7 is a DNA chain called DNA (31-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	O	31	Total	C	N	O	P	0	0
			634	305	114	185	30		

- Molecule 8 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
8	P	26	Total	C	N	O	P	0	0
			526	254	94	153	25		

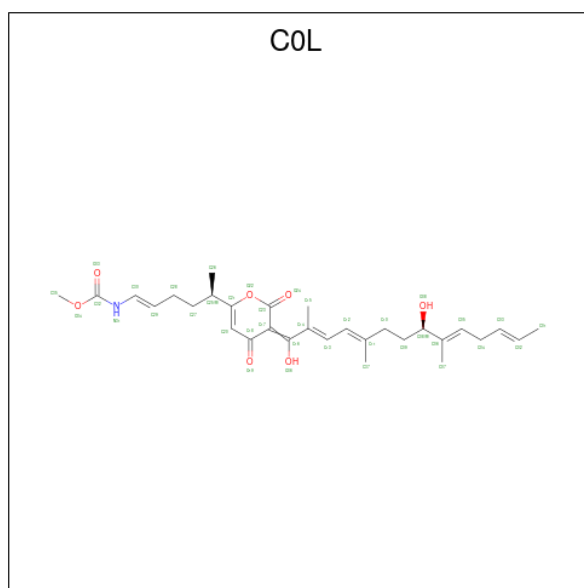
- Molecule 9 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
9	D	2	Total	Zn	0
			2	2	

- Molecule 10 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
10	D	1	Total	Mg	0
			1	1	

- Molecule 11 is methyl [(1E,5R)-5-{(3E)-3-[(2E,4E,8R,9E,12E)-1,8-dihydroxy-2,5,9-trimethyltetradeca-2,4,9,12-tetraen-1-ylidene]-2,4-dioxo-3,4-dihydro-2H-pyran-6-yl}hex-1-en-1-yl]carbamate (CCD ID: C0L) (formula: C₃₀H₄₁NO₇) (labeled as "Ligand of Interest" by depositor).

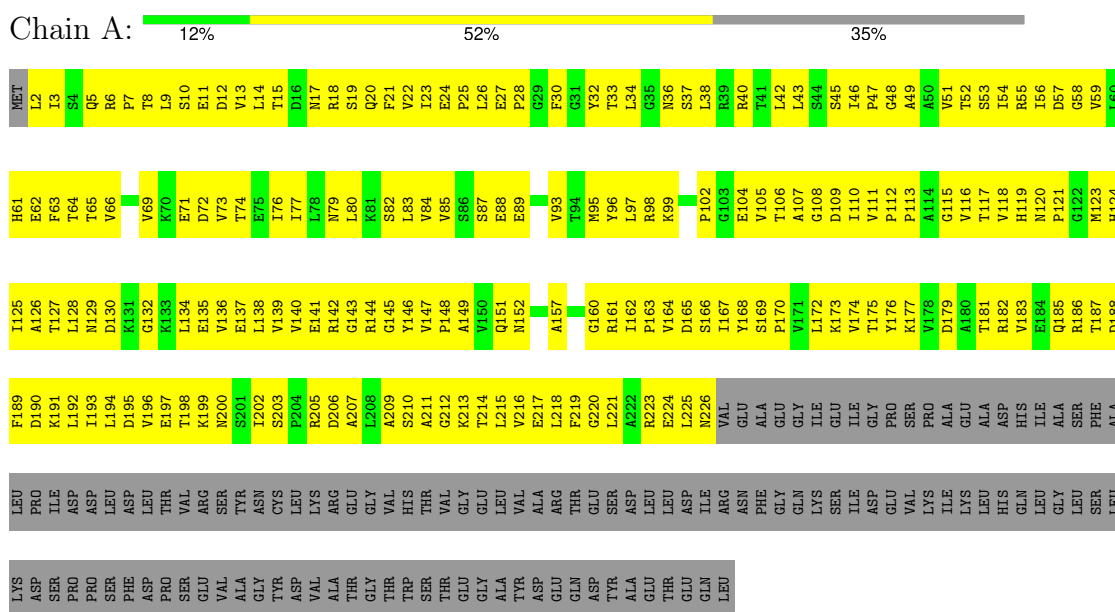


Mol	Chain	Residues	Atoms					AltConf
11	D	1	Total	C	H	N	O	0
			78	30	40	1	7	

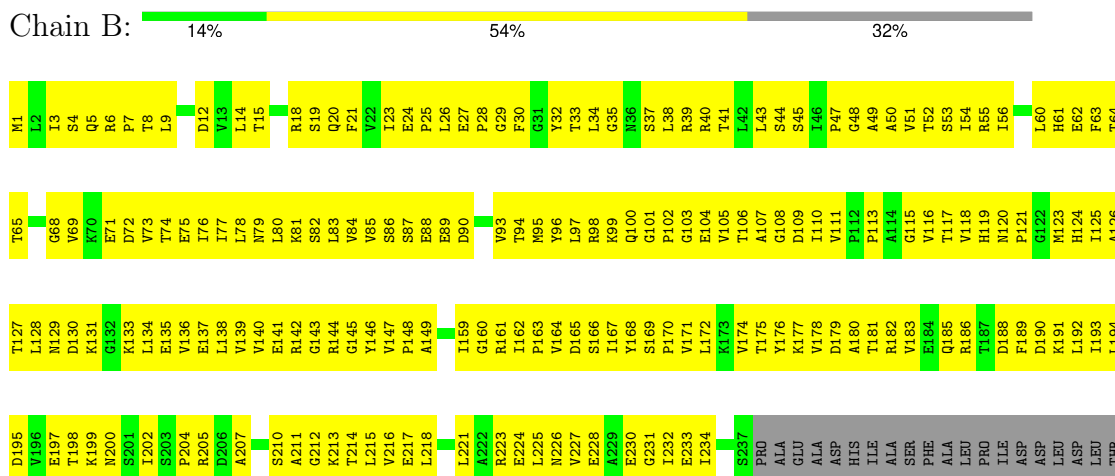
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: DNA-directed RNA polymerase subunit alpha



- Molecule 1: DNA-directed RNA polymerase subunit alpha



[illegible]

- Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C: 21% 72% 6%

I769	C707	R584	V520	S456	I389	P327	K264	S201	F139	R71	MET
I770	T708	R585	D521	A457	R390	I328	D265	V202	I140	E72	ALA
I771	D710	R586	G522	L458	R391			K203	M141	S73	ASP
I772		R587	V523	G459	R395	T332	V268	I205	M142	E76	ARG
I773		R588	V524	P460	M396	L333	T270	P206	M143	R77	GLN
I774	M713	R589	S525		E397	T334	D271	S207	G145		SER
I775	A714	A590		L463	R398	E335	E272	R208	E146	P82	LYS
I776	L715	T591	I528	S464	V399	E336	L273	G209	I147	V83	THR
I777	G716	A592	V529	R465	V400	D337	L274	A210	K148	G84	ALA
I778	K717		Y530		R401	D337	L274	G209	K148		ALA
I779	L718	F596	L531	A468	E402	V338	L275	G209	S149	G85	ALA
I780	L719	L597	T532	G469	E402	V339	L276	L212	Q150	L86	SER
I781	L720	E598	A533	L470	R403	A340	L277	E213	T151	E87	PRO
I782	V721	H599	D534	E471	M404	I341	Y278	F214	V152	E88	SER
I783	T722	D600	E535	V472	T405	I342	R279	D215	F153	V89	PRO
I784	L723	D601	E536	R473	T406	E343	K280	D216	M154		SER
I785	M724	A602		D474	Q407	Y344	L281	V217			ARG
I786	M725	M603	V540	V475	D408	I345	R382	D220	G155	E92	PRO
I787	D726	R604	V541	H476		V346	P283	I226	D156	L93	GLN
I788		A605	A542	P477	I412	R347	G284	I226	F157	S94	GLN
I789	T727	R605	E542	H477	T413	E347	G284	I226	F157	S94	GLN
I790	G728	L606	Q543	S478	T413	L348	E285	V222	M159	P95	SER
I791	T729	M607	Q544	H479	P414	H349	P286	G223	M160	I96	SER
I792	H729	M607	A544		Q415	E350	P287	V224	T161	E97	SER
I793	M730	G608	N545		T416	G351	T388	R225	F162	D98	ASN
I794	G731	A609	P546	R482	L416	T356	T388	R225	F162		ASN
I795	E732	M610	S547	M483	L417	Q352	K289	I226	K163	S102	S30
I796	T733	M611	I548	C484	I418	T353	K289	I226	K163	M103	V32
I797	A734	Q612	L548	R484	I418	T354	E291	R227	G164	S104	P33
I798	G735	R613	D549	P485	N419	T354	E291	R227	T165	M104	P33
I799	I736	R614			I420	M355	A292	K229	F166	L105	G34
I800	T737	Q615	G552	T488	R421	T356	Q293	K229	F166	R230	A35
I801	G738	A615	R553	P489	P422	T357	T294	R331	I167	S106	A35
I802	S738	V616	R554	E490	V423	P358	T294	R331	I168	F107	
I803	T739	P617	V555	G491	V424	G359	L296	Q232	M169	S108	R38
I804	R740	L618	E556	G491	A425	G360	L296	Q232	G170	D109	V39
I805	G804	R619	P557	N493	A425	V361	N298	V234	T171	R111	F41
I806	L741	V619	E557	M493	A426	G361	N298	T235		F112	A42
I807	V742	R620	R558	I494	I427	E362	L299	V236	V174	D113	K43
I808	E743	S621	V559	G495	K428	V363	F300	L237	V175		
I809	E744	E522	L560	L496	E429	P364	F300	L237		D114	
I810	T745	A623	V561	I497	E429	P364	F300	L238		D114	
I811	G746	R685	R562	G498	V365	E366	K302	K239	Q178	V115	E46
I812	L747	Q696	L625	G499	F431	E366	K302	K239	L179	K116	P47
I813	T748	R687	L626	G499	G432	T367	K304	A240	V180	A117	E48
I814	M748	R687	K564	L500	T433	D368	R305	G242	R181	P118	E49
I815	V749	G627	A565	S501	S434	D369	Y306	W243	S182	V119	V50
I816		L689	G566	V502	Q435		D307	W243	P183	D120	P51
I817	T750	T628	E567	Y503	Q435	H372	L308	S245	G184	E121	
I818	L751	Q629	E567	E503	R373	G374	A309	E246	V185	K122	L54
I819	T752	M630	V568	A504	Q437	G374	R310	Q247	V186	C123	D55
I820	E753	E631	E569	R505	S438	F375	R310	Q247	F187	K122	
I821	E754	R632	V570	V506	F439	N375	V311	I248			
I822	T755	L633	V571	N507	M440	R376	G312		D188		T58
I823	E756	A694	P572	P508	D441	R377	R313	F252	E189	D126	D59
I824		R635	A573	F509	Q442	L379	Y314	G253	T190	T128	
I825	A759	T636	S574	G510	N443	R379	K315	F254	I191	I129	F61
I826	R760	D637	E575	F511		T380	V316	S255	D192	A130	S25
I827	D761	R638	V576	I512		V381	N317	E256	K193	A131	W63
I828	T762	G639	D577	E513		G382		I257	S194	P132	L64
I829	A763	D640	V578	T514		E383	L320	M258	T195	L133	L65
I830	L764	V641	M579	P515	H451	L384	G321	R259	D196	F134	G66
I831	G765	V642	D580	V516	K452	R378	L322	G260	K197	V135	S87
I832	T766	R643	V581	R517	K452	Q386	H323	T261	T198	T136	P68
I833	D704	V643	D582	K518	R454	N387	R387	L262	L199	R69	R69
I834	G705	A644	E592	V519	L455	O388	F206	E562	H202	A137	H20

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	223000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	69.9	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.726	Depositor
Minimum map value	-0.457	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.082	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	332.8, 332.8, 332.8	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: C0L, MG, ZN

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	0.39	0/1742	0.58	0/2370
1	B	0.39	0/1786	0.60	0/2435
2	C	0.43	3/8744 (0.0%)	0.66	7/11860 (0.1%)
3	D	0.39	0/10037	0.63	4/13570 (0.0%)
4	E	0.38	0/662	0.54	0/901
5	F	0.38	0/2549	0.68	5/3438 (0.1%)
6	J	0.31	0/897	0.65	0/1210
7	O	0.41	0/710	0.45	0/1095
8	P	0.42	0/589	0.47	0/906
All	All	0.40	3/27716 (0.0%)	0.63	16/37785 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1068	PHE	C-N	8.16	1.45	1.33
2	C	1068	PHE	CA-C	7.10	1.62	1.52
2	C	1074	TRP	CA-CB	6.59	1.64	1.53

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	447	ALA	CA-C-N	-11.04	103.02	120.47
5	F	447	ALA	C-N-CA	-11.04	103.02	120.47
2	C	1074	TRP	CA-CB-CG	10.67	133.87	113.60
2	C	282	ARG	CA-C-N	-10.21	108.80	119.83
2	C	282	ARG	C-N-CA	-10.21	108.80	119.83
2	C	1074	TRP	N-CA-CB	10.04	127.45	110.49
2	C	1073	CYS	N-CA-C	-7.58	94.66	110.80
3	D	657	GLN	CA-C-N	-6.88	111.24	119.84
3	D	657	GLN	C-N-CA	-6.88	111.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	657	GLN	N-CA-C	6.87	124.99	109.81
2	C	1067	ARG	N-CA-C	6.53	119.49	107.99
5	F	225	ALA	N-CA-C	6.51	124.68	110.80
5	F	446	VAL	CB-CA-C	-5.73	102.97	112.26
5	F	445	VAL	N-CA-C	5.70	116.95	108.23
2	C	1054	GLN	N-CA-C	-5.40	96.99	107.62
3	D	834	ARG	C-N-CD	-5.33	108.88	120.60

There are no chirality outliers.

There are no planarity outliers.

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	1716	0	1756	299	0
1	B	1759	0	1783	335	0
2	C	8586	0	8511	1388	0
3	D	9873	0	9941	1494	0
4	E	649	0	645	94	0
5	F	2518	0	2540	425	0
6	J	881	0	861	161	0
7	O	634	0	350	75	0
8	P	526	0	296	65	0
9	D	2	0	0	0	0
10	D	1	0	0	0	0
11	D	38	40	0	22	0
All	All	27183	40	26683	3958	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 74.

All (3958) 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:415:GLN:HA	5:F:418:ARG:CD	1.03	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1249:LYS:HE3	11:D:1404:C0L:N31	1.28	1.46
5:F:415:GLN:CA	5:F:418:ARG:CD	1.97	1.39
5:F:439:ILE:CA	6:J:6:LEU:HD12	1.53	1.37
3:D:641:ARG:N	3:D:657:GLN:HG2	1.40	1.35
2:C:1051:MET:SD	5:F:441:ASP:CG	2.08	1.34
2:C:1073:CYS:O	2:C:1075:ALA:N	1.62	1.30
5:F:415:GLN:CA	5:F:418:ARG:HD3	1.57	1.30
5:F:438:PHE:O	6:J:6:LEU:HG	1.26	1.28
3:D:334:ARG:NH1	5:F:418:ARG:C	2.01	1.19
3:D:640:LEU:C	3:D:657:GLN:HG3	1.66	1.18
2:C:229:LYS:O	2:C:230:ARG:HG2	1.36	1.17
3:D:334:ARG:HH12	5:F:418:ARG:C	1.52	1.16
5:F:415:GLN:HA	5:F:418:ARG:CG	1.74	1.16
3:D:640:LEU:C	3:D:657:GLN:CG	2.18	1.16
5:F:439:ILE:HA	6:J:6:LEU:O	1.43	1.16
5:F:414:GLN:O	5:F:418:ARG:HG3	1.45	1.15
2:C:181:ARG:HA	2:C:376:ARG:HA	1.25	1.14
2:C:96:ILE:HB	2:C:105:LEU:HB3	1.31	1.11
2:C:809:LYS:HB2	2:C:833:ARG:HB2	1.26	1.11
3:D:1249:LYS:CE	11:D:1404:C0L:N31	2.13	1.10
2:C:407:GLN:HB3	2:C:412:ILE:HG21	1.33	1.09
2:C:347:ARG:HB3	2:C:352:GLN:HG3	1.36	1.08
2:C:229:LYS:O	2:C:230:ARG:CG	2.01	1.07
2:C:1068:PHE:HB3	3:D:422:VAL:HG21	1.32	1.07
2:C:633:ARG:HD2	2:C:636:ILE:HD11	1.30	1.07
5:F:438:PHE:O	6:J:6:LEU:CG	2.04	1.06
5:F:415:GLN:HA	5:F:418:ARG:HD2	1.15	1.06
2:C:808:PRO:HA	2:C:832:VAL:HA	1.37	1.05
5:F:438:PHE:C	6:J:6:LEU:HD11	1.81	1.05
5:F:446:VAL:HG11	5:F:449:ASP:CG	1.80	1.05
3:D:641:ARG:N	3:D:657:GLN:CG	2.18	1.04
2:C:215:ASP:HB2	2:C:223:GLY:HA3	1.38	1.04
5:F:438:PHE:C	6:J:6:LEU:CD1	2.30	1.03
5:F:439:ILE:CA	6:J:6:LEU:CD1	2.36	1.03
3:D:641:ARG:CA	3:D:657:GLN:HG2	1.87	1.03
5:F:439:ILE:HA	6:J:6:LEU:CD1	1.88	1.03
5:F:318:LEU:HA	5:F:321:ILE:HD12	1.40	1.03
5:F:364:ARG:HH12	5:F:419:GLU:HG2	1.22	1.03
5:F:439:ILE:CG1	6:J:6:LEU:CD1	2.37	1.02
1:A:69:VAL:HG12	1:A:128:LEU:HG	1.40	1.02
2:C:907:LEU:HD12	2:C:911:THR:HB	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:THR:HG22	2:C:416:THR:HG23	1.38	1.01
1:A:9:LEU:HA	1:A:23:ILE:HG12	1.41	1.01
3:D:743:LYS:HA	3:D:746:LEU:HD12	1.42	1.01
5:F:440:GLU:N	6:J:6:LEU:O	1.94	1.00
1:A:49:ALA:HB2	1:A:142:ARG:HD2	1.43	1.00
3:D:641:ARG:HA	3:D:657:GLN:CD	1.85	1.00
5:F:446:VAL:HG11	5:F:449:ASP:OD2	1.61	1.00
3:D:1086:LEU:HB3	3:D:1099:LEU:HB3	1.42	1.00
2:C:1073:CYS:O	2:C:1074:TRP:C	1.98	1.00
1:B:74:THR:HA	1:B:77:ILE:HD12	1.44	0.99
1:B:105:VAL:HG23	1:B:128:LEU:HD11	1.42	0.99
3:D:443:LEU:HD12	3:D:444:PRO:HD2	1.45	0.99
2:C:204:VAL:HB	2:C:212:LEU:HD21	1.44	0.98
2:C:847:VAL:HG22	2:C:873:VAL:HG22	1.45	0.98
3:D:262:GLN:HG3	3:D:310:MET:HE1	1.41	0.98
3:D:878:VAL:HG22	3:D:1000:ALA:HB1	1.43	0.98
1:A:179:ASP:HB2	1:A:191:LYS:HB3	1.45	0.98
2:C:1051:MET:SD	5:F:441:ASP:OD1	2.21	0.97
3:D:334:ARG:HH12	5:F:419:GLU:N	1.60	0.97
3:D:1088:VAL:HA	3:D:1098:VAL:HA	1.44	0.97
3:D:640:LEU:O	3:D:657:GLN:HG3	1.64	0.97
3:D:1055:LEU:HA	3:D:1064:ILE:HG23	1.46	0.96
1:B:21:PHE:HB2	1:B:194:LEU:HB2	1.46	0.96
3:D:345:ARG:HD2	5:F:365:THR:HG23	1.48	0.96
5:F:440:GLU:O	6:J:7:ARG:HA	1.65	0.96
3:D:235:ILE:HG21	3:D:241:TYR:HB2	1.45	0.95
2:C:853:PHE:HB2	2:C:868:LEU:HB3	1.47	0.95
2:C:192:ASP:HB2	2:C:199:LEU:HD11	1.46	0.95
1:B:12:ASP:HB3	1:B:20:GLN:HB3	1.49	0.95
2:C:208:ARG:HD3	2:C:307:ASP:HB2	1.48	0.95
2:C:507:ASN:HB3	2:C:511:PHE:H	1.32	0.95
5:F:364:ARG:NH1	5:F:419:GLU:HG2	1.80	0.95
3:D:1050:THR:HG22	3:D:1106:GLU:HA	1.45	0.94
5:F:503:ILE:HA	5:F:506:ILE:HD12	1.49	0.94
5:F:442:SER:HB3	6:J:7:ARG:HD3	1.49	0.94
3:D:923:ARG:HB3	3:D:962:VAL:HG21	1.50	0.94
2:C:1042:HIS:HB2	2:C:1060:LYS:HE2	1.50	0.94
5:F:415:GLN:HA	5:F:418:ARG:HD3	0.94	0.93
1:A:7:PRO:HA	1:A:25:PRO:HD2	1.49	0.93
1:B:97:LEU:HD21	1:B:105:VAL:HG11	1.50	0.93
3:D:616:ALA:HA	3:D:619:ILE:HD12	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:439:ILE:HG12	6:J:6:LEU:HD13	1.46	0.93
1:B:49:ALA:HA	1:B:142:ARG:HA	1.50	0.93
2:C:1128:LEU:HD11	11:D:1404:C0L:C03	1.99	0.93
5:F:439:ILE:CA	6:J:6:LEU:O	2.17	0.93
2:C:558:ARG:HB3	2:C:570:TYR:HB3	1.48	0.92
2:C:435:GLN:HE21	2:C:460:PRO:HD3	1.35	0.92
1:B:202:ILE:HD11	1:B:207:ALA:HB2	1.51	0.92
3:D:442:GLY:HA3	3:D:523:GLN:HB2	1.48	0.92
5:F:499:THR:HG21	7:O:3:DT:H2'	1.51	0.92
5:F:345:THR:HA	7:O:30:DC:H41	1.34	0.92
3:D:545:LEU:HD12	3:D:546:PRO:HD2	1.50	0.91
3:D:827:PRO:HG3	3:D:854:HIS:HB3	1.48	0.91
3:D:334:ARG:NH2	5:F:419:GLU:O	2.03	0.91
5:F:439:ILE:HA	6:J:6:LEU:HD12	0.92	0.91
7:O:11:DA:H2''	7:O:12:DG:H5''	1.51	0.91
5:F:390:LEU:HD21	5:F:392:ARG:HE	1.36	0.91
2:C:1067:ARG:HB2	3:D:421:ARG:HG3	1.50	0.91
1:B:3:ILE:HB	1:B:234:ILE:HA	1.50	0.91
1:A:54:ILE:HG22	1:A:138:LEU:HA	1.53	0.91
2:C:945:LYS:HA	2:C:965:GLU:HA	1.52	0.90
3:D:443:LEU:HD21	3:D:448:ALA:HB2	1.53	0.90
3:D:1050:THR:HG23	3:D:1107:VAL:HG23	1.52	0.90
5:F:439:ILE:N	6:J:6:LEU:CD1	2.35	0.90
2:C:334:THR:HG23	2:C:337:ASP:H	1.37	0.90
2:C:455:LEU:HD11	2:C:500:LEU:HD23	1.54	0.90
3:D:797:ASN:HB3	3:D:800:ILE:HG22	1.54	0.90
3:D:886:VAL:HG12	3:D:991:ILE:HG23	1.51	0.90
2:C:482:ARG:HB3	2:C:512:ILE:HD13	1.52	0.90
4:E:47:VAL:HG21	4:E:53:LEU:HB2	1.52	0.90
3:D:930:VAL:HA	3:D:936:VAL:HA	1.53	0.89
5:F:439:ILE:CG1	6:J:6:LEU:HD13	2.01	0.89
3:D:1181:ILE:HD11	3:D:1186:PHE:HB2	1.54	0.89
2:C:994:PRO:HB3	2:C:999:ASP:H	1.38	0.89
3:D:504:LEU:HD23	3:D:1005:GLU:HA	1.51	0.89
3:D:1166:THR:HB	3:D:1206:VAL:HG11	1.53	0.89
3:D:334:ARG:HD2	5:F:418:ARG:HB3	1.55	0.88
5:F:326:LEU:HA	5:F:329:ILE:HD12	1.52	0.88
5:F:440:GLU:O	6:J:7:ARG:CA	2.20	0.88
2:C:1067:ARG:HB2	3:D:421:ARG:CB	2.02	0.88
2:C:784:LEU:HA	2:C:790:VAL:HA	1.55	0.88
3:D:17:ALA:HA	3:D:20:ILE:HD12	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:636:ARG:HA	3:D:663:MET:HA	1.55	0.88
2:C:298:ASN:HA	2:C:302:LYS:HB3	1.55	0.88
3:D:195:ARG:HD3	3:D:198:ARG:HD3	1.53	0.88
1:A:157:ALA:HB1	1:A:161:ARG:HG3	1.53	0.88
1:B:78:LEU:HA	1:B:81:LYS:HE2	1.56	0.87
2:C:802:LEU:HD12	2:C:837:LEU:HG	1.56	0.87
2:C:541:VAL:HG22	2:C:578:TYR:HB2	1.55	0.87
6:J:101:ARG:HD3	6:J:104:LEU:HD13	1.56	0.87
2:C:1068:PHE:HB3	3:D:422:VAL:CG2	2.04	0.87
3:D:1235:ASP:HA	3:D:1238:ILE:HD12	1.54	0.87
5:F:487:ARG:HD2	5:F:491:GLU:HG2	1.56	0.87
5:F:438:PHE:HB2	6:J:6:LEU:HD21	1.54	0.87
5:F:439:ILE:HG13	6:J:6:LEU:CD1	2.03	0.87
1:B:192:LEU:HD21	1:B:194:LEU:HD21	1.56	0.87
3:D:937:ILE:HD11	3:D:951:ALA:HB1	1.57	0.87
2:C:1044:ARG:HD2	2:C:1063:PHE:HB3	1.55	0.87
3:D:634:LYS:HG2	3:D:665:GLU:HB3	1.55	0.86
2:C:1051:MET:CE	5:F:441:ASP:OD1	2.17	0.86
2:C:245:SER:HB3	2:C:262:LEU:HD21	1.56	0.86
3:D:56:ARG:HG2	6:J:13:ALA:H	1.39	0.86
2:C:956:ALA:HA	2:C:959:LEU:HD12	1.56	0.86
3:D:71:LYS:HA	3:D:82:VAL:HG13	1.58	0.86
3:D:1063:LYS:HD3	3:D:1078:ASP:HA	1.56	0.86
5:F:439:ILE:N	6:J:6:LEU:HD11	1.91	0.86
3:D:820:MET:HE3	3:D:837:LYS:HA	1.56	0.86
5:F:479:PHE:HB2	5:F:481:LEU:HG	1.58	0.86
2:C:229:LYS:HZ1	2:C:281:LEU:HD12	1.41	0.85
3:D:926:GLY:HA2	3:D:940:ARG:HG3	1.58	0.85
3:D:599:TYR:HB2	3:D:633:ILE:HA	1.59	0.85
3:D:640:LEU:C	3:D:657:GLN:HG2	1.92	0.85
6:J:28:GLN:HG3	6:J:46:ASP:HA	1.57	0.85
2:C:544:ALA:HB2	2:C:580:ASP:HB2	1.58	0.85
5:F:415:GLN:O	5:F:418:ARG:HB2	1.76	0.85
2:C:229:LYS:O	2:C:230:ARG:CB	2.24	0.85
2:C:1067:ARG:HB2	3:D:421:ARG:CG	2.06	0.85
1:B:101:GLY:HA2	1:B:131:LYS:HA	1.57	0.84
3:D:280:VAL:O	3:D:284:GLY:N	2.09	0.84
3:D:821:LYS:HB3	3:D:836:VAL:HG11	1.59	0.84
5:F:415:GLN:CB	5:F:418:ARG:HD3	2.07	0.84
2:C:62:GLU:HA	2:C:65:ILE:HD12	1.59	0.84
6:J:91:ILE:HA	6:J:94:LEU:HD12	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:354:LEU:HA	3:D:357:LEU:HD12	1.56	0.84
5:F:504:ARG:NH1	8:P:22:DC:OP2	2.11	0.84
3:D:641:ARG:CA	3:D:657:GLN:CG	2.53	0.84
3:D:185:GLU:HA	3:D:194:ARG:HH11	1.43	0.83
1:A:202:ILE:HD11	1:A:207:ALA:HB2	1.60	0.83
2:C:689:ILE:HG23	2:C:703:ALA:HA	1.58	0.83
3:D:902:ALA:HA	3:D:913:ASP:H	1.43	0.83
5:F:266:LEU:HD22	5:F:273:LEU:HD12	1.61	0.83
2:C:517:ARG:HG3	2:C:581:VAL:HA	1.59	0.83
2:C:946:VAL:N	2:C:964:LEU:O	2.11	0.83
3:D:965:VAL:HG11	3:D:1156:VAL:HG22	1.58	0.83
2:C:547:PRO:HB2	2:C:555:VAL:HB	1.61	0.83
3:D:420:LYS:HZ2	11:D:1404:C0L:C17	1.91	0.82
7:O:2:DC:H2'	7:O:3:DT:H71	1.61	0.82
1:A:128:LEU:HB3	1:A:132:GLY:HA3	1.61	0.82
2:C:801:ILE:HD13	2:C:838:LYS:HG2	1.61	0.82
5:F:223:ALA:O	5:F:224:SER:O	1.98	0.82
2:C:38:ARG:HD3	2:C:973:SER:HB3	1.62	0.82
5:F:348:THR:HA	5:F:351:ILE:HD12	1.59	0.82
3:D:612:TYR:HB2	3:D:635:VAL:HG12	1.59	0.82
1:B:106:THR:HG22	1:B:124:HIS:HA	1.61	0.82
5:F:364:ARG:HH12	5:F:419:GLU:CG	1.92	0.82
1:B:40:ARG:HH12	3:D:623:ASP:HB3	1.42	0.82
7:O:19:DA:H1'	7:O:20:DT:H5'	1.60	0.82
2:C:789:ILE:HG22	2:C:803:VAL:HG22	1.62	0.82
3:D:641:ARG:HA	3:D:657:GLN:CG	2.10	0.82
3:D:1033:GLU:HA	3:D:1036:GLU:HB2	1.59	0.82
3:D:139:VAL:HA	3:D:252:PHE:HA	1.59	0.81
1:B:100:GLN:HA	1:B:133:LYS:HA	1.61	0.81
2:C:222:VAL:HG21	2:C:234:VAL:H	1.45	0.81
3:D:1052:ARG:HA	3:D:1104:HIS:HA	1.62	0.81
1:B:95:MET:HE1	1:B:140:VAL:HG23	1.59	0.81
2:C:1058:GLY:HA2	2:C:1064:GLY:HA2	1.63	0.81
2:C:1124:LEU:HD21	11:D:1404:C0L:C06	2.09	0.81
3:D:71:LYS:O	6:J:27:ARG:NH1	2.13	0.81
2:C:1067:ARG:CB	3:D:421:ARG:HA	2.11	0.81
5:F:229:ARG:HA	5:F:232:LEU:HD12	1.62	0.81
2:C:192:ASP:O	2:C:196:ASP:N	2.13	0.81
3:D:1044:ALA:HB3	3:D:1110:GLN:HE21	1.44	0.81
4:E:38:PRO:HG2	4:E:43:LEU:HD11	1.62	0.81
1:B:182:ARG:HG3	1:B:186:ARG:H	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:84:ARG:HD3	3:D:86:LYS:HE3	1.61	0.80
3:D:928:ASP:OD1	3:D:940:ARG:N	2.14	0.80
3:D:189:ALA:HB3	3:D:194:ARG:HD3	1.63	0.80
5:F:476:ARG:HA	5:F:481:LEU:HB2	1.63	0.80
2:C:720:LEU:N	2:C:914:ASP:OD2	2.14	0.80
3:D:420:LYS:NZ	11:D:1404:C0L:C17	2.45	0.80
2:C:297:GLU:O	2:C:302:LYS:N	2.14	0.80
1:B:107:ALA:HB2	1:B:123:MET:HB3	1.63	0.80
3:D:1251:ASN:HD22	3:D:1259:PRO:HD3	1.47	0.80
2:C:225:ARG:HG3	2:C:230:ARG:H	1.47	0.80
2:C:767:GLU:HB3	2:C:805:LYS:HE3	1.64	0.80
5:F:478:ARG:HH22	8:P:20:DG:H5"	1.47	0.80
3:D:286:GLY:O	3:D:290:LEU:N	2.15	0.80
3:D:426:GLY:HA3	3:D:447:MET:HE3	1.63	0.80
2:C:1137:VAL:HG21	3:D:7:PHE:HD1	1.47	0.80
3:D:1045:PRO:O	3:D:1111:LEU:N	2.15	0.79
3:D:739:PRO:HG2	3:D:742:LYS:HB2	1.63	0.79
5:F:502:ARG:NH1	5:F:505:GLN:OE1	2.14	0.79
1:B:52:THR:HB	1:B:139:VAL:HG12	1.64	0.79
3:D:432:VAL:HG13	3:D:434:PRO:HD3	1.62	0.79
3:D:428:SER:HB3	3:D:522:ILE:HD11	1.65	0.79
3:D:1208:MET:HG3	3:D:1213:ALA:HB2	1.63	0.79
4:E:82:LEU:N	4:E:98:GLU:OE2	2.15	0.79
2:C:1088:LEU:HD23	2:C:1092:LYS:HD2	1.64	0.79
3:D:353:ARG:NE	5:F:323:GLU:OE2	2.16	0.79
6:J:90:SER:HB3	6:J:93:GLU:HG3	1.65	0.79
2:C:1050:SER:H	2:C:1055:GLN:H	1.30	0.79
6:J:108:ARG:HD2	6:J:109:ARG:H	1.48	0.79
1:A:43:LEU:HD23	2:C:902:GLU:HB3	1.65	0.79
2:C:103:MET:HA	2:C:142:ASN:H	1.47	0.79
2:C:654:SER:HG	2:C:657:TYR:H	1.31	0.79
3:D:945:GLY:N	3:D:948:GLU:OE2	2.15	0.79
5:F:439:ILE:HG12	6:J:6:LEU:CD1	2.07	0.79
6:J:52:GLY:HA2	6:J:64:LEU:HB2	1.64	0.79
1:A:12:ASP:HB3	1:A:20:GLN:HB2	1.64	0.79
5:F:390:LEU:HG	5:F:392:ARG:HG2	1.64	0.79
2:C:644:ALA:N	2:C:700:GLN:O	2.12	0.79
3:D:151:LEU:HD22	3:D:248:TYR:HE1	1.48	0.79
3:D:929:ALA:N	3:D:938:VAL:O	2.15	0.79
1:A:147:VAL:HG12	1:A:166:SER:HB2	1.64	0.78
1:B:179:ASP:HB2	1:B:191:LYS:HB3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1254:ILE:HG13	3:D:1256:LYS:H	1.48	0.78
5:F:447:ALA:O	5:F:448:VAL:C	2.18	0.78
1:B:84:VAL:HG13	1:B:119:HIS:HB2	1.64	0.78
3:D:567:SER:N	3:D:572:ARG:O	2.15	0.78
5:F:487:ARG:HB3	5:F:491:GLU:HB2	1.64	0.78
1:B:7:PRO:HA	1:B:25:PRO:HD2	1.64	0.78
2:C:131:ALA:O	2:C:157:PHE:N	2.15	0.78
2:C:774:PRO:HG2	2:C:834:ASP:HB2	1.66	0.78
2:C:222:VAL:HG13	2:C:261:THR:HG21	1.66	0.78
2:C:463:LEU:HD13	2:C:468:ALA:HB2	1.64	0.78
1:A:209:ALA:HB2	1:B:225:LEU:HB2	1.65	0.78
5:F:344:SER:OG	7:O:30:DC:OP2	2.02	0.78
6:J:28:GLN:N	6:J:44:PHE:O	2.16	0.78
1:B:79:ASN:HB3	1:B:125:ILE:HG13	1.65	0.78
3:D:481:PRO:HA	3:D:484:TRP:HD1	1.49	0.78
5:F:415:GLN:CA	5:F:418:ARG:HD2	1.84	0.78
2:C:767:GLU:HA	2:C:807:THR:HG22	1.65	0.77
1:A:105:VAL:N	1:A:126:ALA:O	2.17	0.77
1:A:106:THR:N	1:A:109:ASP:OD2	2.17	0.77
3:D:1089:PHE:O	3:D:1097:ARG:N	2.17	0.77
5:F:438:PHE:O	6:J:6:LEU:CD1	2.29	0.77
3:D:599:TYR:OH	3:D:608:GLU:OE1	2.03	0.77
2:C:403:ARG:NH1	2:C:416:THR:O	2.18	0.77
3:D:902:ALA:HB1	3:D:912:ARG:HA	1.67	0.77
2:C:1051:MET:O	6:J:10:ARG:NH2	2.17	0.77
2:C:1071:MET:HE1	3:D:502:PRO:HA	1.67	0.77
3:D:815:ARG:NH1	3:D:820:MET:O	2.18	0.77
2:C:107:PHE:HA	2:C:137:ALA:HA	1.66	0.77
5:F:500:ARG:NH1	8:P:21:DT:O4	2.17	0.77
1:A:107:ALA:HB2	1:A:123:MET:HB3	1.67	0.77
3:D:1062:TYR:HB2	3:D:1080:ILE:HB	1.66	0.77
3:D:891:CYS:HB2	3:D:969:ALA:HB3	1.66	0.76
3:D:893:THR:HB	3:D:969:ALA:HB2	1.65	0.76
2:C:233:PRO:HG2	2:C:236:VAL:HG23	1.67	0.76
3:D:500:ARG:HB2	3:D:541:MET:HG2	1.67	0.76
2:C:540:VAL:HG23	2:C:561:VAL:HG21	1.67	0.76
2:C:549:ASP:HB3	2:C:553:ARG:HB2	1.65	0.76
3:D:826:ASN:N	3:D:830:GLU:O	2.18	0.76
3:D:1047:ALA:N	3:D:1109:GLN:O	2.17	0.76
5:F:249:LEU:HD22	5:F:291:ALA:HB1	1.66	0.76
5:F:258:TYR:HB2	6:J:94:LEU:HD22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:336:ASP:OD1	6:J:89:ARG:NH2	2.18	0.76
3:D:261:ILE:HA	3:D:264:LEU:HD12	1.66	0.76
5:F:463:VAL:O	5:F:466:THR:OG1	2.03	0.76
6:J:31:ARG:HG2	6:J:41:GLU:HG2	1.68	0.76
2:C:975:PRO:HB2	2:C:978:ASP:HB3	1.67	0.76
2:C:1124:LEU:HD23	11:D:1404:C0L:C02	2.16	0.76
1:B:106:THR:N	1:B:109:ASP:OD2	2.16	0.76
3:D:993:GLU:OE2	4:E:51:TYR:OH	2.03	0.76
3:D:342:ASP:OD1	5:F:365:THR:OG1	2.02	0.76
3:D:1190:ASN:HA	3:D:1193:VAL:HG12	1.67	0.76
3:D:1212:LYS:HA	3:D:1215:LEU:HD12	1.68	0.76
5:F:238:VAL:O	5:F:301:ARG:NH2	2.19	0.76
5:F:264:THR:HA	5:F:267:SER:HB3	1.68	0.76
1:A:144:ARG:HD2	1:B:1:MET:HE2	1.68	0.76
3:D:885:ILE:HG22	3:D:994:ALA:HB2	1.68	0.76
1:B:1:MET:O	1:B:233:GLU:N	2.19	0.76
3:D:336:ALA:HB1	5:F:423:LEU:HD11	1.66	0.76
1:B:1:MET:HB2	1:B:232:ILE:HA	1.68	0.75
3:D:33:THR:HB	3:D:327:MET:HE1	1.68	0.75
2:C:253:GLY:O	2:C:259:ARG:NH1	2.19	0.75
3:D:637:LEU:N	3:D:662:TRP:O	2.18	0.75
3:D:431:VAL:O	3:D:524:LEU:N	2.18	0.75
1:B:104:GLU:HG2	1:B:127:THR:HG22	1.69	0.75
1:B:105:VAL:N	1:B:126:ALA:O	2.19	0.75
1:B:183:VAL:HA	1:B:188:ASP:HA	1.68	0.75
2:C:652:GLU:O	2:C:659:THR:N	2.19	0.75
5:F:330:ARG:NH2	7:O:25:DC:OP2	2.19	0.75
2:C:62:GLU:O	2:C:66:GLY:N	2.20	0.75
2:C:231:ARG:HD2	5:F:211:ALA:HB2	1.67	0.75
1:A:40:ARG:HE	1:B:33:THR:HG22	1.52	0.75
1:B:107:ALA:N	1:B:123:MET:O	2.18	0.75
2:C:549:ASP:N	2:C:553:ARG:O	2.14	0.75
5:F:461:GLN:OE1	5:F:476:ARG:NH2	2.20	0.75
1:A:149:ALA:N	1:A:165:ASP:OD1	2.19	0.75
2:C:518:LYS:HA	2:C:578:TYR:HA	1.67	0.75
2:C:1054:GLN:O	2:C:1055:GLN:CG	2.34	0.75
1:B:98:ARG:HG2	1:B:135:GLU:HA	1.67	0.75
2:C:179:LEU:HD23	2:C:378:LEU:HD13	1.69	0.75
2:C:317:ASN:O	2:C:321:GLY:N	2.19	0.75
5:F:296:LEU:HD21	5:F:332:VAL:HG11	1.69	0.75
5:F:384:ARG:O	5:F:388:GLN:NE2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:106:ARG:O	6:J:111:GLY:N	2.20	0.75
1:B:172:LEU:HD13	1:B:199:LYS:H	1.52	0.75
2:C:235:THR:HG21	2:C:265:ASP:HB3	1.68	0.75
2:C:514:THR:O	2:C:531:LEU:N	2.14	0.75
2:C:676:ALA:HB3	2:C:684:ALA:HB3	1.68	0.75
3:D:60:CYS:SG	3:D:64:LYS:N	2.60	0.75
7:O:22:DG:H1'	7:O:23:DT:H5'	1.68	0.75
2:C:102:SER:O	2:C:141:ASN:ND2	2.20	0.74
2:C:1072:GLU:OE2	3:D:503:THR:OG1	2.02	0.74
2:C:641:VAL:HG22	2:C:705:GLY:H	1.50	0.74
2:C:649:VAL:HA	2:C:695:ARG:HA	1.69	0.74
3:D:1051:GLY:O	3:D:1105:VAL:N	2.17	0.74
6:J:81:HIS:HA	6:J:84:MET:HE2	1.69	0.74
3:D:930:VAL:HG12	3:D:936:VAL:HG22	1.68	0.74
1:A:119:HIS:O	1:A:200:ASN:ND2	2.20	0.74
2:C:182:SER:O	2:C:186:TYR:OH	2.06	0.74
3:D:1066:ILE:HD12	3:D:1075:VAL:HB	1.68	0.74
5:F:331:ALA:HB2	5:F:350:TRP:HB2	1.67	0.74
1:B:169:SER:HB3	1:B:171:VAL:HG22	1.69	0.74
2:C:822:ARG:NH1	2:C:828:LYS:O	2.21	0.74
2:C:1044:ARG:NH1	2:C:1057:LEU:O	2.20	0.74
2:C:150:GLN:NE2	2:C:413:THR:OG1	2.20	0.74
3:D:557:ILE:O	3:D:563:ASN:ND2	2.20	0.74
2:C:174:VAL:HG23	2:C:440:MET:HB2	1.68	0.74
3:D:101:VAL:O	3:D:314:LEU:N	2.16	0.74
2:C:278:TYR:CE1	2:C:282:ARG:HD2	2.23	0.74
2:C:853:PHE:N	2:C:868:LEU:O	2.17	0.74
3:D:850:PHE:O	3:D:853:THR:OG1	2.05	0.74
2:C:902:GLU:OE1	2:C:902:GLU:N	2.20	0.74
3:D:1249:LYS:HD3	11:D:1404:C0L:C35	2.18	0.74
3:D:1269:ASN:HB2	4:E:109:GLY:HA3	1.69	0.74
3:D:265:ILE:HG21	3:D:310:MET:HA	1.68	0.73
5:F:318:LEU:HD23	5:F:321:ILE:HD12	1.70	0.73
5:F:310:TYR:O	5:F:313:ARG:NE	2.21	0.73
1:B:45:SER:O	1:B:144:ARG:NH1	2.21	0.73
2:C:563:ARG:N	2:C:567:GLU:O	2.21	0.73
3:D:1062:TYR:N	3:D:1080:ILE:O	2.18	0.73
2:C:592:ALA:HB1	2:C:630:MET:HG3	1.70	0.73
3:D:468:ASN:O	3:D:471:SER:OG	2.06	0.73
3:D:636:ARG:HB2	3:D:663:MET:HG2	1.69	0.73
3:D:768:ASP:HA	3:D:771:ASN:HD22	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:THR:HG21	1:B:191:LYS:HD3	1.70	0.73
2:C:941:HIS:ND1	2:C:969:ASN:OD1	2.21	0.73
3:D:431:VAL:HG23	3:D:523:GLN:HA	1.70	0.73
3:D:1157:ILE:HG22	3:D:1161:MET:HE3	1.68	0.73
2:C:237:LEU:O	2:C:241:LEU:N	2.21	0.73
2:C:168:ILE:O	2:C:171:THR:OG1	2.04	0.73
5:F:241:LEU:HB3	5:F:245:GLU:HG3	1.69	0.73
2:C:413:THR:O	2:C:416:THR:OG1	2.05	0.73
2:C:986:GLN:HG2	3:D:733:MET:HE1	1.70	0.73
3:D:1270:ILE:O	4:E:59:LYS:NZ	2.20	0.73
3:D:498:LEU:H	3:D:509:ILE:HG23	1.54	0.73
3:D:756:VAL:HG21	3:D:777:ILE:HD11	1.70	0.73
2:C:38:ARG:NH1	2:C:625:LEU:O	2.22	0.73
3:D:1124:VAL:HG12	3:D:1125:GLN:HG3	1.70	0.73
3:D:1167:ILE:O	3:D:1178:GLY:N	2.19	0.73
5:F:299:ASN:HA	7:O:31:DT:H3	1.54	0.73
2:C:96:ILE:N	2:C:105:LEU:O	2.19	0.72
2:C:133:LEU:HD11	2:C:157:PHE:HB2	1.69	0.72
2:C:403:ARG:HD2	2:C:417:LEU:HA	1.71	0.72
3:D:1164:ARG:NH2	3:D:1216:ALA:O	2.22	0.72
3:D:56:ARG:NE	3:D:59:GLU:OE1	2.23	0.72
3:D:607:PRO:HG2	3:D:609:THR:HG22	1.72	0.72
3:D:798:PRO:HA	3:D:801:THR:HB	1.71	0.72
4:E:42:GLU:OE1	4:E:100:HIS:NE2	2.21	0.72
2:C:48:LEU:HB2	2:C:528:ILE:HD11	1.71	0.72
3:D:639:GLN:HA	3:D:657:GLN:O	1.88	0.72
1:A:14:LEU:HD11	1:A:20:GLN:HG3	1.71	0.72
1:A:26:LEU:HB2	1:A:190:ASP:HB2	1.71	0.72
1:B:146:TYR:O	3:D:624:ARG:NH2	2.18	0.72
2:C:106:SER:N	2:C:138:GLU:O	2.19	0.72
2:C:807:THR:O	2:C:833:ARG:N	2.23	0.72
3:D:354:LEU:HB2	3:D:370:GLU:HG2	1.71	0.72
6:J:54:TRP:N	6:J:61:GLU:OE2	2.22	0.72
2:C:618:LEU:HD22	2:C:748:THR:H	1.55	0.72
1:A:62:GLU:HA	1:A:73:VAL:HG11	1.71	0.72
1:B:103:GLY:O	1:B:128:LEU:N	2.19	0.72
2:C:608:GLY:HA2	2:C:611:MET:HE3	1.71	0.72
2:C:633:ARG:HA	2:C:636:ILE:HG12	1.71	0.72
3:D:211:ARG:HD3	3:D:214:ARG:HH22	1.53	0.72
3:D:334:ARG:NH1	5:F:418:ARG:O	2.21	0.72
3:D:722:TYR:O	3:D:725:THR:OG1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:O	1:A:125:ILE:N	2.21	0.72
2:C:98:ASP:OD2	2:C:102:SER:OG	2.03	0.72
3:D:931:ASP:N	3:D:935:ASN:O	2.22	0.72
1:A:192:LEU:HD21	1:A:194:LEU:HD12	1.70	0.72
2:C:658:ILE:HD11	2:C:688:PRO:HB3	1.69	0.72
3:D:524:LEU:HD11	3:D:528:VAL:HG21	1.70	0.72
5:F:415:GLN:CA	5:F:418:ARG:HG3	2.19	0.72
3:D:406:LEU:HB2	3:D:409:LYS:HB2	1.72	0.72
3:D:93:GLY:O	3:D:319:VAL:N	2.22	0.72
4:E:96:LEU:HA	4:E:99:ILE:HD12	1.71	0.72
1:A:172:LEU:HD23	1:A:199:LYS:HB3	1.72	0.71
3:D:36:TYR:OH	7:O:21:DT:OP1	2.07	0.71
3:D:50:LYS:HA	3:D:80:VAL:HG22	1.70	0.71
2:C:768:GLU:O	2:C:806:VAL:N	2.23	0.71
3:D:108:LYS:HG2	3:D:386:ARG:HG3	1.72	0.71
3:D:555:ALA:HA	3:D:559:MET:HE3	1.72	0.71
3:D:590:THR:HG23	3:D:630:ARG:HD2	1.71	0.71
1:A:13:VAL:HA	1:A:19:SER:HB2	1.72	0.71
1:A:107:ALA:HB3	1:A:121:PRO:HA	1.72	0.71
1:B:149:ALA:N	1:B:165:ASP:OD1	2.22	0.71
2:C:559:VAL:O	2:C:571:VAL:N	2.23	0.71
3:D:101:VAL:N	3:D:314:LEU:O	2.22	0.71
3:D:1065:THR:HG22	3:D:1074:GLU:HB3	1.72	0.71
2:C:705:GLY:N	2:C:708:THR:OG1	2.23	0.71
2:C:735:ILE:O	2:C:896:GLY:N	2.19	0.71
3:D:1090:LYS:HD2	3:D:1097:ARG:NE	2.06	0.71
1:A:172:LEU:HB2	1:A:199:LYS:HB3	1.70	0.71
3:D:670:ARG:NH1	3:D:685:ASN:OD1	2.21	0.71
3:D:1142:TYR:HB3	3:D:1147:VAL:HB	1.71	0.71
2:C:38:ARG:NH1	2:C:972:VAL:O	2.22	0.71
2:C:403:ARG:HB2	2:C:407:GLN:HE21	1.56	0.71
3:D:64:LYS:HD3	3:D:77:ARG:HH21	1.55	0.71
3:D:613:SER:N	3:D:617:GLU:OE1	2.24	0.71
2:C:761:ASP:OD2	2:C:866:ASN:ND2	2.24	0.71
1:B:75:GLU:HA	1:B:78:LEU:HD21	1.73	0.71
2:C:104:SER:N	2:C:140:ILE:O	2.21	0.71
2:C:343:GLU:HG2	2:C:355:MET:HE2	1.71	0.71
3:D:412:ARG:HA	3:D:1227:GLN:HE21	1.56	0.71
1:B:12:ASP:N	1:B:20:GLN:O	2.23	0.71
2:C:1072:GLU:HA	2:C:1075:ALA:HB3	1.72	0.71
3:D:445:LYS:HA	3:D:516:LEU:HD22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:ILE:HG22	1:A:170:PRO:HG2	1.71	0.71
2:C:889:HIS:NE2	2:C:933:GLU:OE1	2.21	0.70
3:D:1166:THR:HA	3:D:1180:LEU:HD23	1.71	0.70
1:A:10:SER:OG	1:A:22:VAL:O	2.07	0.70
2:C:780:VAL:HG23	2:C:781:LEU:HD12	1.72	0.70
2:C:1077:GLN:NE2	11:D:1404:C0L:O33	2.22	0.70
1:A:105:VAL:HG12	1:A:125:ILE:HD12	1.73	0.70
5:F:273:LEU:HD22	5:F:278:ARG:HB2	1.73	0.70
2:C:384:LEU:HA	2:C:387:ASN:HD22	1.55	0.70
2:C:435:GLN:O	2:C:438:GLN:NE2	2.21	0.70
2:C:563:ARG:HB3	2:C:567:GLU:H	1.56	0.70
6:J:90:SER:OG	6:J:92:GLU:OE1	2.08	0.70
2:C:1083:TYR:N	3:D:554:GLU:OE2	2.24	0.70
3:D:71:LYS:HD3	6:J:24:LEU:HD11	1.72	0.70
3:D:948:GLU:O	3:D:952:LEU:HG	1.91	0.70
3:D:1220:TRP:NE1	3:D:1243:ASP:HB2	2.06	0.70
6:J:28:GLN:NE2	6:J:46:ASP:O	2.25	0.70
3:D:222:ILE:HG13	3:D:244:LEU:HD12	1.73	0.70
2:C:174:VAL:N	2:C:438:GLN:O	2.22	0.70
2:C:1067:ARG:HB2	3:D:421:ARG:HA	1.71	0.70
3:D:134:TYR:O	3:D:235:ILE:N	2.24	0.70
3:D:1167:ILE:HG22	3:D:1177:PRO:HA	1.72	0.70
2:C:207:SER:OG	2:C:307:ASP:O	2.10	0.70
2:C:225:ARG:HE	2:C:230:ARG:HA	1.56	0.70
3:D:400:LYS:HG3	3:D:404:ASP:HB2	1.73	0.70
5:F:503:ILE:HD13	5:F:506:ILE:HD12	1.74	0.70
1:B:62:GLU:OE2	1:B:65:THR:OG1	2.08	0.70
2:C:802:LEU:N	2:C:837:LEU:O	2.17	0.70
3:D:566:LEU:HA	3:D:573:PRO:HA	1.73	0.70
2:C:715:LEU:N	2:C:1029:TYR:OH	2.25	0.69
3:D:579:LEU:O	3:D:583:THR:OG1	2.09	0.69
2:C:532:THR:N	2:C:535:GLU:OE2	2.21	0.69
2:C:644:ALA:O	2:C:699:GLY:N	2.25	0.69
3:D:391:VAL:H	3:D:399:LEU:HD12	1.57	0.69
3:D:505:HIS:CE1	3:D:507:LEU:HB2	2.28	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HB2	1.74	0.69
5:F:438:PHE:CB	6:J:6:LEU:HD21	2.22	0.69
6:J:20:ARG:NH1	6:J:23:ASP:O	2.25	0.69
1:A:48:GLY:N	1:A:143:GLY:O	2.25	0.69
1:A:105:VAL:HB	1:A:126:ALA:H	1.56	0.69
2:C:1032:LYS:HE2	2:C:1036:LEU:HD21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:315:MET:HE3	5:F:362:GLN:HB2	1.75	0.69
2:C:356:THR:OG1	2:C:360:GLY:O	2.10	0.69
2:C:493:ASN:HA	2:C:496:LEU:HD12	1.72	0.69
2:C:315:LYS:NZ	2:C:375:ASN:OD1	2.25	0.69
2:C:1067:ARG:HB2	3:D:421:ARG:CA	2.22	0.69
2:C:1128:LEU:CD1	11:D:1404:C0L:C03	2.69	0.69
3:D:420:LYS:NZ	11:D:1404:C0L:C23	2.55	0.69
3:D:825:THR:OG1	3:D:830:GLU:O	2.06	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HD22	1.74	0.69
1:B:26:LEU:HB2	1:B:190:ASP:HB2	1.75	0.69
3:D:18:GLU:O	3:D:22:GLN:N	2.24	0.69
3:D:177:LEU:HD11	3:D:198:ARG:HA	1.74	0.69
1:B:134:LEU:HD11	1:B:136:VAL:HG23	1.74	0.69
2:C:1049:TYR:HA	2:C:1056:PRO:HA	1.75	0.69
2:C:1073:CYS:C	2:C:1075:ALA:N	2.48	0.69
3:D:445:LYS:NZ	3:D:518:GLU:OE2	2.23	0.69
5:F:317:PHE:CE2	5:F:321:ILE:HD11	2.28	0.69
5:F:414:GLN:C	5:F:418:ARG:HG3	2.17	0.69
1:A:48:GLY:O	1:A:143:GLY:N	2.21	0.69
1:B:52:THR:N	1:B:139:VAL:O	2.17	0.69
2:C:128:THR:HB	2:C:169:ASN:H	1.58	0.69
2:C:181:ARG:CA	2:C:376:ARG:HA	2.16	0.69
2:C:182:SER:N	2:C:375:ASN:O	2.25	0.69
2:C:507:ASN:HD22	2:C:511:PHE:HB2	1.58	0.69
2:C:802:LEU:HD21	2:C:839:VAL:HB	1.73	0.69
2:C:803:VAL:O	2:C:836:SER:OG	2.11	0.69
3:D:339:ASP:OD2	3:D:400:LYS:HB3	1.91	0.69
5:F:446:VAL:O	5:F:448:VAL:N	2.24	0.69
2:C:140:ILE:HG23	2:C:146:GLU:H	1.56	0.69
3:D:22:GLN:O	6:J:57:ARG:NH2	2.18	0.69
3:D:1208:MET:HE3	3:D:1213:ALA:HB1	1.74	0.69
2:C:1119:GLU:OE2	3:D:89:ARG:NH1	2.26	0.69
3:D:406:LEU:HB2	3:D:409:LYS:HD3	1.74	0.69
3:D:433:GLY:N	3:D:524:LEU:O	2.25	0.69
3:D:1068:PRO:HD3	3:D:1074:GLU:HA	1.75	0.69
1:A:73:VAL:O	1:A:77:ILE:HG12	1.94	0.68
2:C:663:ASP:OD1	2:C:695:ARG:NH1	2.22	0.68
3:D:36:TYR:CE2	3:D:37:ARG:HB2	2.28	0.68
3:D:1052:ARG:HG3	3:D:1067:VAL:HG21	1.74	0.68
7:O:14:DG:H2"	7:O:15:DT:H71	1.75	0.68
1:A:95:MET:HG3	1:A:138:LEU:HD13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1111:ASN:HB3	4:E:62:ARG:NH2	2.08	0.68
5:F:322:GLN:HA	5:F:325:ASN:HD22	1.55	0.68
2:C:108:SER:O	2:C:136:THR:N	2.27	0.68
2:C:738:SER:HB2	2:C:904:MET:HE3	1.75	0.68
2:C:987:GLY:O	2:C:990:SER:OG	2.09	0.68
3:D:147:GLU:O	3:D:151:LEU:HG	1.93	0.68
3:D:1049:VAL:HA	3:D:1107:VAL:HG13	1.75	0.68
3:D:1066:ILE:HB	3:D:1075:VAL:HB	1.74	0.68
2:C:473:ARG:NH1	2:C:494:ILE:O	2.20	0.68
3:D:144:ARG:O	3:D:148:LEU:HB2	1.93	0.68
2:C:133:LEU:O	2:C:154:MET:N	2.23	0.68
2:C:256:GLU:O	2:C:259:ARG:HG2	1.94	0.68
2:C:883:ASP:HB2	2:C:895:ILE:HD12	1.73	0.68
2:C:1043:ALA:HA	3:D:426:GLY:HA2	1.76	0.68
3:D:641:ARG:HB3	3:D:682:PRO:HA	1.76	0.68
3:D:1153:HIS:O	3:D:1157:ILE:HG12	1.94	0.68
5:F:342:LYS:N	7:O:29:DA:OP2	2.17	0.68
1:A:61:HIS:HA	1:A:162:ILE:HD11	1.76	0.68
2:C:651:GLU:OE2	2:C:667:ARG:NH1	2.27	0.68
5:F:500:ARG:NH2	8:P:20:DG:N7	2.42	0.68
1:A:36:ASN:HB2	2:C:1016:GLY:HA2	1.75	0.68
2:C:313:ARG:HD3	2:C:331:SER:HA	1.74	0.68
2:C:380:THR:HG23	2:C:383:GLU:H	1.58	0.68
3:D:111:PRO:O	3:D:113:ARG:NH1	2.25	0.68
3:D:384:ASN:HD21	3:D:391:VAL:HG23	1.58	0.68
3:D:898:VAL:HA	3:D:960:VAL:O	1.94	0.68
5:F:256:GLY:HA2	5:F:284:ILE:HG22	1.76	0.68
1:B:51:VAL:HA	1:B:140:VAL:HG22	1.76	0.68
3:D:64:LYS:HB2	3:D:77:ARG:NH2	2.08	0.68
3:D:849:TYR:O	3:D:853:THR:HG23	1.94	0.68
5:F:352:ARG:HA	5:F:355:ILE:HD12	1.75	0.68
2:C:1050:SER:O	5:F:441:ASP:HB2	1.93	0.68
3:D:95:ILE:N	3:D:317:VAL:O	2.27	0.68
3:D:95:ILE:O	3:D:317:VAL:N	2.24	0.68
3:D:277:LEU:HD11	3:D:295:ARG:HH12	1.58	0.68
1:B:104:GLU:HA	1:B:127:THR:HA	1.75	0.68
2:C:1011:PHE:HE1	2:C:1018:PRO:HB3	1.58	0.68
3:D:35:ASN:HB3	3:D:38:THR:HG22	1.76	0.68
2:C:648:GLY:HA2	2:C:663:ASP:OD1	1.93	0.67
2:C:1095:ASP:O	2:C:1099:ARG:HG3	1.94	0.67
3:D:367:VAL:HG12	3:D:371:LYS:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:33:LEU:O	4:E:36:THR:HG22	1.94	0.67
2:C:403:ARG:HA	2:C:406:THR:OG1	1.94	0.67
2:C:756:GLU:HB2	2:C:870:ARG:HG2	1.75	0.67
2:C:1068:PHE:CB	3:D:422:VAL:HG21	2.20	0.67
2:C:674:LYS:HZ2	2:C:686:GLN:H	1.42	0.67
2:C:725:PRO:HA	2:C:730:ASN:HD21	1.57	0.67
2:C:769:ILE:HA	2:C:805:LYS:HA	1.75	0.67
2:C:827:GLU:OE2	5:F:524:ARG:NH2	2.27	0.67
2:C:1124:LEU:HD21	11:D:1404:C0L:C05	2.24	0.67
2:C:661:MET:HA	2:C:667:ARG:HG2	1.76	0.67
3:D:49:GLU:HG2	3:D:88:ARG:NH1	2.10	0.67
3:D:826:ASN:HD21	3:D:828:LYS:HD2	1.58	0.67
4:E:70:GLN:HE22	4:E:76:LEU:HB2	1.59	0.67
5:F:261:GLN:O	5:F:265:GLU:HG2	1.95	0.67
1:A:15:THR:OG1	1:A:17:ASN:OD1	2.11	0.67
3:D:144:ARG:NH1	3:D:226:PHE:O	2.25	0.67
3:D:939:GLU:OE1	3:D:942:GLN:NE2	2.27	0.67
2:C:557:PRO:O	2:C:573:SER:N	2.28	0.67
3:D:925:LEU:HG	3:D:944:LEU:HD11	1.77	0.67
5:F:439:ILE:N	6:J:6:LEU:HD12	2.01	0.67
5:F:439:ILE:CB	6:J:6:LEU:HD12	2.25	0.67
1:A:169:SER:O	1:A:199:LYS:HD3	1.94	0.67
2:C:395:ARG:HA	2:C:398:ARG:HE	1.60	0.67
2:C:672:MET:HE3	2:C:688:PRO:HB3	1.77	0.67
2:C:724:MET:O	2:C:730:ASN:ND2	2.28	0.67
2:C:192:ASP:OD1	2:C:194:SER:OG	2.12	0.67
2:C:956:ALA:HA	2:C:959:LEU:CD1	2.25	0.67
2:C:1072:GLU:OE2	3:D:499:ASN:ND2	2.24	0.67
5:F:242:ASN:OD1	5:F:245:GLU:HG2	1.95	0.67
1:A:223:ARG:HD3	1:B:216:VAL:HG11	1.77	0.66
2:C:604:ARG:NH1	2:C:607:MET:SD	2.68	0.66
2:C:1094:ASP:HB3	2:C:1119:GLU:H	1.60	0.66
3:D:737:LEU:O	3:D:793:TYR:OH	2.13	0.66
6:J:32:TYR:CD1	6:J:64:LEU:HA	2.29	0.66
1:B:88:GLU:N	1:B:89:GLU:OE1	2.28	0.66
2:C:123:LYS:HA	2:C:170:GLY:HA2	1.76	0.66
2:C:140:ILE:HG12	2:C:147:ILE:HA	1.77	0.66
2:C:207:SER:H	2:C:308:LEU:HA	1.58	0.66
2:C:259:ARG:O	2:C:263:GLU:HG2	1.95	0.66
2:C:768:GLU:HB3	2:C:806:VAL:HG13	1.77	0.66
2:C:944:TRP:HB2	2:C:991:CYS:SG	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:742:LYS:HG2	3:D:746:LEU:HD11	1.76	0.66
3:D:905:ALA:N	3:D:909:THR:O	2.27	0.66
1:A:7:PRO:HB3	1:A:25:PRO:O	1.94	0.66
2:C:347:ARG:HA	2:C:350:GLU:HB3	1.78	0.66
2:C:677:ARG:NE	2:C:752:ILE:O	2.28	0.66
2:C:1067:ARG:CB	3:D:421:ARG:HG3	2.22	0.66
3:D:222:ILE:HB	3:D:240:LEU:HD11	1.77	0.66
5:F:252:ARG:CZ	5:F:291:ALA:HB2	2.24	0.66
5:F:296:LEU:O	5:F:300:LEU:HG	1.95	0.66
2:C:243:TRP:HA	2:C:247:GLN:OE1	1.95	0.66
2:C:558:ARG:NE	2:C:570:TYR:O	2.27	0.66
2:C:656:ASP:O	2:C:672:MET:N	2.26	0.66
2:C:1136:GLU:OE2	3:D:11:ARG:NH2	2.28	0.66
3:D:328:VAL:O	3:D:336:ALA:N	2.19	0.66
3:D:1207:LEU:HD22	3:D:1208:MET:H	1.58	0.66
2:C:130:ALA:HA	2:C:158:PRO:HA	1.77	0.66
2:C:568:VAL:HG21	3:D:847:LEU:HD23	1.76	0.66
3:D:334:ARG:CZ	5:F:419:GLU:O	2.44	0.66
3:D:557:ILE:HD12	4:E:54:VAL:HG22	1.76	0.66
3:D:633:ILE:HD12	3:D:635:VAL:HG13	1.78	0.66
3:D:1088:VAL:HB	3:D:1098:VAL:HG23	1.77	0.66
5:F:488:THR:N	5:F:491:GLU:OE1	2.27	0.66
1:B:97:LEU:HD13	1:B:110:ILE:HA	1.76	0.66
2:C:470:LEU:CD2	2:C:473:ARG:HD2	2.25	0.66
2:C:488:THR:HG22	2:C:606:LEU:HD11	1.77	0.66
2:C:561:VAL:O	2:C:568:VAL:HA	1.96	0.66
2:C:820:LEU:HD13	5:F:479:PHE:HE2	1.60	0.66
5:F:283:TRP:CE3	6:J:105:ILE:HD12	2.30	0.66
5:F:302:LEU:N	7:O:31:DT:O2	2.25	0.66
1:A:173:LYS:HB3	1:A:197:GLU:OE1	1.96	0.66
2:C:441:ASP:OD1	2:C:680:HIS:NE2	2.28	0.66
3:D:142:GLU:OE1	3:D:142:GLU:N	2.28	0.66
2:C:777:SER:O	2:C:781:LEU:HD13	1.96	0.66
2:C:1051:MET:SD	5:F:441:ASP:OD2	2.54	0.66
5:F:478:ARG:O	5:F:486:PRO:HB3	1.96	0.66
1:A:98:ARG:HG3	1:A:135:GLU:HA	1.77	0.66
2:C:822:ARG:O	2:C:826:GLY:N	2.29	0.66
2:C:955:TRP:HA	2:C:958:ARG:HH12	1.61	0.66
3:D:207:GLN:O	3:D:211:ARG:HG2	1.96	0.66
3:D:913:ASP:HB3	3:D:916:ILE:HD11	1.78	0.66
3:D:1220:TRP:HB3	3:D:1241:ARG:HH21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:861:LEU:HD23	2:C:865:VAL:HG12	1.78	0.65
5:F:233:LYS:O	5:F:237:LYS:HG3	1.96	0.65
5:F:489:LEU:HD22	5:F:503:ILE:HB	1.77	0.65
1:B:3:ILE:CB	1:B:234:ILE:HA	2.26	0.65
1:B:95:MET:HE1	1:B:140:VAL:CG2	2.27	0.65
2:C:891:ASN:ND2	2:C:930:GLN:OE1	2.22	0.65
3:D:61:TYR:HB3	3:D:78:CYS:HB2	1.78	0.65
3:D:274:ALA:O	3:D:278:ARG:HG2	1.96	0.65
3:D:638:THR:O	3:D:657:GLN:O	2.14	0.65
5:F:217:LYS:O	5:F:220:GLU:HG3	1.97	0.65
1:B:73:VAL:HG12	1:B:77:ILE:HD11	1.78	0.65
2:C:1012:ASP:HB3	2:C:1015:SER:OG	1.95	0.65
3:D:277:LEU:HB2	3:D:296:LEU:HD13	1.79	0.65
5:F:336:ASP:OD1	5:F:338:THR:N	2.29	0.65
1:A:43:LEU:HD21	2:C:901:VAL:HG13	1.79	0.65
2:C:646:GLU:HG2	2:C:647:SER:O	1.95	0.65
3:D:139:VAL:HG13	3:D:141:GLU:HG2	1.78	0.65
1:A:52:THR:N	1:A:139:VAL:O	2.23	0.65
2:C:96:ILE:O	2:C:105:LEU:N	2.23	0.65
3:D:260:SER:O	3:D:264:LEU:HG	1.97	0.65
3:D:1068:PRO:HD2	3:D:1074:GLU:HG2	1.78	0.65
5:F:440:GLU:O	6:J:7:ARG:HB2	1.96	0.65
5:F:478:ARG:NH1	5:F:488:THR:HA	2.12	0.65
3:D:57:ASP:HB3	3:D:58:TRP:CE3	2.32	0.65
3:D:353:ARG:HD3	5:F:322:GLN:HB3	1.78	0.65
3:D:641:ARG:NH1	3:D:680:GLY:O	2.26	0.65
2:C:642:VAL:O	2:C:702:ILE:HG22	1.96	0.65
3:D:927:THR:CG2	3:D:961:LYS:HB3	2.27	0.65
1:A:102:PRO:HD3	1:A:130:ASP:HA	1.78	0.65
2:C:51:PRO:O	2:C:633:ARG:NH2	2.29	0.65
2:C:786:GLU:OE1	2:C:786:GLU:N	2.30	0.65
3:D:1272:VAL:HG22	4:E:106:HIS:HB2	1.78	0.65
5:F:335:PHE:CE1	5:F:343:PHE:HA	2.32	0.65
7:O:9:DA:H1'	7:O:10:DA:H5'	1.78	0.65
8:P:1:DA:H1'	8:P:2:DG:O4'	1.97	0.65
2:C:822:ARG:HD3	2:C:827:GLU:HB2	1.77	0.65
3:D:206:ARG:HB2	3:D:209:ARG:NH2	2.11	0.65
3:D:641:ARG:O	3:D:683:PHE:N	2.30	0.65
3:D:713:VAL:HA	3:D:716:LEU:HD12	1.78	0.65
5:F:316:ALA:O	5:F:320:LEU:HG	1.97	0.65
1:B:146:TYR:HB2	3:D:620:MET:HE2	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:LYS:NZ	1:B:217:GLU:OE2	2.24	0.65
2:C:189:GLU:HA	2:C:199:LEU:O	1.97	0.65
2:C:208:ARG:NH2	2:C:304:LYS:O	2.25	0.65
2:C:691:ASP:N	2:C:694:ASP:OD2	2.28	0.65
2:C:1096:THR:HA	2:C:1099:ARG:NH2	2.11	0.65
3:D:329:GLN:NE2	6:J:9:SER:OG	2.22	0.65
3:D:921:TYR:HE1	3:D:949:ILE:HG13	1.62	0.65
5:F:440:GLU:O	6:J:7:ARG:CB	2.45	0.65
5:F:478:ARG:HH11	5:F:488:THR:HA	1.62	0.65
1:B:85:VAL:HG23	1:B:117:THR:C	2.22	0.64
2:C:517:ARG:O	2:C:579:MET:N	2.16	0.64
3:D:931:ASP:HB3	3:D:935:ASN:OD1	1.97	0.64
3:D:1147:VAL:HG12	3:D:1149:ILE:HG12	1.77	0.64
2:C:103:MET:HB2	2:C:139:PHE:CZ	2.33	0.64
2:C:238:LEU:HB3	2:C:243:TRP:HB2	1.79	0.64
3:D:699:ASP:OD1	3:D:703:ARG:NH1	2.30	0.64
3:D:1211:THR:O	3:D:1215:LEU:HG	1.97	0.64
5:F:439:ILE:C	6:J:6:LEU:O	2.40	0.64
1:B:226:ASN:HD21	1:B:228:GLU:HB2	1.60	0.64
2:C:48:LEU:HD22	2:C:528:ILE:HD13	1.78	0.64
3:D:821:LYS:HB3	3:D:836:VAL:CG1	2.28	0.64
3:D:1100:SER:N	3:D:1103:ASP:OD2	2.30	0.64
5:F:407:PRO:O	5:F:411:LEU:HG	1.97	0.64
1:B:172:LEU:HD13	1:B:199:LYS:N	2.11	0.64
1:B:182:ARG:HD3	1:B:185:GLN:HB3	1.79	0.64
2:C:604:ARG:HD2	2:C:607:MET:SD	2.37	0.64
3:D:27:GLU:OE2	3:D:96:GLU:N	2.20	0.64
3:D:223:TRP:O	3:D:227:THR:HG23	1.96	0.64
3:D:1265:ASN:OD1	3:D:1268:ARG:NH2	2.22	0.64
1:A:157:ALA:CB	1:A:161:ARG:HG3	2.26	0.64
3:D:58:TRP:CD2	3:D:68:VAL:HG22	2.33	0.64
3:D:148:LEU:HA	3:D:151:LEU:HD12	1.78	0.64
3:D:510:GLN:OE1	3:D:561:SER:HA	1.97	0.64
3:D:891:CYS:HB3	3:D:970:THR:HG23	1.79	0.64
5:F:467:LEU:HB3	5:F:471:GLU:OE1	1.97	0.64
6:J:55:LEU:HA	6:J:61:GLU:HA	1.80	0.64
6:J:64:LEU:HD23	6:J:66:GLU:H	1.63	0.64
1:B:214:THR:HA	1:B:217:GLU:OE1	1.97	0.64
2:C:347:ARG:NH2	2:C:352:GLN:OE1	2.31	0.64
3:D:64:LYS:HB2	3:D:77:ARG:HH21	1.63	0.64
3:D:383:ASP:HA	3:D:401:SER:OG	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1068:PRO:CD	3:D:1074:GLU:HG2	2.28	0.64
3:D:1276:GLU:HG2	3:D:1279:ARG:HE	1.62	0.64
5:F:258:TYR:CG	6:J:94:LEU:HB3	2.32	0.64
1:B:147:VAL:HG12	1:B:166:SER:HB2	1.78	0.64
2:C:200:HIS:HB2	2:C:216:VAL:HG21	1.79	0.64
2:C:239:LYS:HB3	2:C:270:THR:HA	1.80	0.64
2:C:540:VAL:HG13	2:C:577:ASP:H	1.63	0.64
3:D:999:ALA:HB1	3:D:1153:HIS:HB3	1.80	0.64
6:J:106:ARG:HA	6:J:110:ARG:HG2	1.80	0.64
2:C:245:SER:OG	2:C:262:LEU:HD11	1.97	0.64
2:C:403:ARG:HB2	2:C:407:GLN:HG2	1.79	0.64
2:C:414:PRO:HA	2:C:417:LEU:HB2	1.80	0.64
3:D:603:SER:HA	3:D:606:HIS:O	1.97	0.64
2:C:186:TYR:O	2:C:202:VAL:HA	1.97	0.64
2:C:298:ASN:HA	2:C:302:LYS:CB	2.26	0.64
2:C:442:GLN:O	2:C:678:SER:OG	2.16	0.64
2:C:707:CYS:O	2:C:714:ALA:N	2.31	0.64
2:C:767:GLU:HG2	2:C:807:THR:HG21	1.80	0.64
3:D:52:PHE:O	3:D:91:ARG:HD2	1.98	0.64
3:D:75:CYS:SG	3:D:78:CYS:N	2.61	0.64
3:D:1128:ARG:O	3:D:1132:ILE:HG12	1.98	0.64
5:F:446:VAL:CG1	5:F:449:ASP:CG	2.65	0.64
2:C:133:LEU:CB	2:C:154:MET:HB3	2.27	0.64
2:C:240:ALA:HA	2:C:274:LEU:CD2	2.28	0.64
3:D:75:CYS:HB3	3:D:78:CYS:SG	2.37	0.64
3:D:505:HIS:HE1	3:D:507:LEU:HB2	1.61	0.64
3:D:802:ILE:HG23	3:D:807:ALA:HB3	1.80	0.64
1:B:108:GLY:N	1:B:121:PRO:O	2.28	0.63
2:C:485:PRO:O	3:D:857:ARG:NH2	2.31	0.63
2:C:1134:ASN:HB2	3:D:15:ALA:HA	1.80	0.63
3:D:1139:GLN:O	3:D:1143:ARG:HG3	1.98	0.63
3:D:1181:ILE:HD12	3:D:1185:GLU:HG2	1.81	0.63
1:A:76:ILE:O	1:A:80:LEU:HG	1.98	0.63
1:B:97:LEU:N	1:B:136:VAL:O	2.29	0.63
3:D:277:LEU:HD23	3:D:296:LEU:HB2	1.80	0.63
1:A:15:THR:OG1	1:A:18:ARG:HG3	1.98	0.63
1:A:43:LEU:HD23	2:C:902:GLU:CB	2.28	0.63
1:B:171:VAL:HA	1:B:198:THR:HG22	1.79	0.63
2:C:132:PRO:HB3	2:C:153:PHE:HE1	1.63	0.63
2:C:139:PHE:O	2:C:148:LYS:N	2.30	0.63
2:C:628:THR:N	2:C:631:GLU:OE2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:737:LEU:HD12	2:C:895:ILE:HG23	1.79	0.63
4:E:39:PRO:O	4:E:43:LEU:HG	1.98	0.63
1:B:79:ASN:CB	1:B:125:ILE:HG13	2.28	0.63
2:C:274:LEU:HG	2:C:292:ALA:HB1	1.80	0.63
2:C:610:ASN:O	2:C:613:ARG:HG2	1.99	0.63
2:C:809:LYS:HB3	2:C:831:GLU:O	1.98	0.63
2:C:1048:PRO:O	2:C:1056:PRO:HA	1.97	0.63
2:C:1109:GLY:HA3	3:D:458:LYS:HE3	1.79	0.63
3:D:35:ASN:CB	3:D:38:THR:HG22	2.28	0.63
3:D:173:ARG:NH1	3:D:204:GLU:OE1	2.31	0.63
3:D:277:LEU:CB	3:D:296:LEU:HD13	2.29	0.63
3:D:439:HIS:CE1	4:E:33:LEU:HD11	2.34	0.63
3:D:459:ARG:HA	3:D:462:ASP:OD2	1.97	0.63
3:D:708:VAL:HG22	4:E:29:TYR:HB2	1.80	0.63
3:D:939:GLU:HG2	3:D:940:ARG:O	1.97	0.63
3:D:1052:ARG:O	3:D:1067:VAL:HB	1.98	0.63
1:B:14:LEU:HB2	1:B:18:ARG:O	1.99	0.63
2:C:261:THR:O	2:C:265:ASP:N	2.32	0.63
2:C:353:THR:HG23	2:C:354:THR:HG22	1.80	0.63
2:C:1003:ASP:OD1	2:C:1007:LYS:N	2.30	0.63
2:C:1124:LEU:CD2	11:D:1404:C0L:C02	2.77	0.63
3:D:493:GLU:HA	4:E:35:ILE:HD13	1.79	0.63
3:D:982:SER:HB3	3:D:985:THR:OG1	1.99	0.63
1:A:24:GLU:HB2	1:A:25:PRO:HA	1.81	0.63
1:A:182:ARG:HA	1:A:188:ASP:HB3	1.81	0.63
3:D:30:LYS:HD2	3:D:43:LYS:O	1.99	0.63
3:D:106:TYR:HB3	3:D:114:LEU:HG	1.81	0.63
3:D:143:MET:HE2	3:D:251:TYR:CE1	2.33	0.63
3:D:1249:LYS:CD	11:D:1404:C0L:N31	2.61	0.63
5:F:440:GLU:O	6:J:8:GLY:N	2.31	0.63
8:P:7:DA:C8	8:P:8:DT:H72	2.32	0.63
8:P:17:DT:H2"	8:P:18:DT:H71	1.80	0.63
1:B:171:VAL:HA	1:B:198:THR:CG2	2.29	0.63
2:C:443:ASN:ND2	2:C:613:ARG:O	2.28	0.63
2:C:465:ARG:NH2	2:C:492:PRO:O	2.29	0.63
2:C:563:ARG:NH2	2:C:569:GLU:OE1	2.30	0.63
2:C:770:THR:N	2:C:804:GLY:O	2.28	0.63
3:D:244:LEU:O	3:D:247:ARG:N	2.30	0.63
3:D:411:GLY:HA2	3:D:1228:GLU:H	1.64	0.63
3:D:670:ARG:HD3	3:D:685:ASN:HA	1.81	0.63
3:D:803:VAL:HG22	3:D:808:THR:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:894:GLU:O	3:D:961:LYS:NZ	2.20	0.63
6:J:109:ARG:HH12	6:J:110:ARG:HH21	1.46	0.63
1:B:30:PHE:O	1:B:33:THR:OG1	2.10	0.63
2:C:469:GLY:O	2:C:472:VAL:HG22	1.98	0.63
2:C:716:GLY:HA3	2:C:1030:ILE:O	1.99	0.63
5:F:334:LYS:HD3	5:F:350:TRP:CZ2	2.33	0.63
5:F:378:LYS:O	5:F:382:ILE:HG12	1.97	0.63
5:F:440:GLU:HB3	6:J:7:ARG:HB3	1.80	0.63
6:J:52:GLY:CA	6:J:64:LEU:HB2	2.28	0.63
2:C:771:ARG:O	2:C:773:ILE:HG12	1.98	0.63
2:C:831:GLU:OE1	2:C:831:GLU:N	2.32	0.63
3:D:190:LYS:NZ	3:D:192:ASP:HB3	2.13	0.63
5:F:228:VAL:O	5:F:232:LEU:HG	1.99	0.63
5:F:355:ILE:O	5:F:359:MET:HG3	1.99	0.63
1:A:129:ASN:OD1	1:A:132:GLY:N	2.32	0.62
2:C:144:THR:HG23	2:C:146:GLU:OE1	1.99	0.62
2:C:451:HIS:HA	2:C:454:ARG:NH2	2.13	0.62
2:C:476:HIS:ND1	2:C:477:PRO:HD2	2.14	0.62
2:C:507:ASN:HB3	2:C:511:PHE:N	2.10	0.62
2:C:1054:GLN:O	2:C:1055:GLN:HG2	1.97	0.62
3:D:737:LEU:HB2	3:D:793:TYR:CE1	2.34	0.62
3:D:1251:ASN:HA	3:D:1254:ILE:HG12	1.79	0.62
3:D:1274:PRO:HA	4:E:104:LEU:HD23	1.79	0.62
3:D:174:ALA:O	3:D:178:GLU:HG3	1.99	0.62
3:D:1273:GLN:O	4:E:105:GLU:HG2	1.99	0.62
5:F:223:ALA:O	5:F:224:SER:C	2.42	0.62
2:C:958:ARG:HD3	2:C:958:ARG:H	1.64	0.62
2:C:1057:LEU:HD21	2:C:1062:GLN:HE21	1.64	0.62
3:D:228:LYS:O	3:D:233:GLN:NE2	2.20	0.62
3:D:1036:GLU:HB3	3:D:1038:ARG:HG2	1.81	0.62
4:E:67:TYR:CZ	4:E:71:LEU:HD21	2.33	0.62
5:F:446:VAL:HG21	5:F:449:ASP:OD2	1.98	0.62
5:F:501:GLU:OE1	5:F:504:ARG:NE	2.18	0.62
1:A:89:GLU:OE1	1:A:89:GLU:N	2.33	0.62
1:A:142:ARG:NH2	1:B:230:GLU:OE1	2.33	0.62
1:B:9:LEU:HD13	1:B:23:ILE:HD11	1.79	0.62
2:C:514:THR:N	2:C:531:LEU:O	2.24	0.62
2:C:622:GLU:H	2:C:717:LYS:HE2	1.64	0.62
2:C:660:VAL:HG22	2:C:668:ARG:O	2.00	0.62
3:D:60:CYS:HB2	3:D:78:CYS:SG	2.39	0.62
3:D:103:HIS:HB3	3:D:106:TYR:HD2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:435:GLN:HG2	3:D:436:LEU:HD23	1.80	0.62
3:D:696:ILE:O	3:D:700:LEU:HG	1.99	0.62
3:D:968:CYS:SG	3:D:975:CYS:N	2.69	0.62
3:D:1062:TYR:HB2	3:D:1080:ILE:CG2	2.29	0.62
2:C:55:ASP:HA	2:C:58:THR:OG1	2.00	0.62
2:C:781:LEU:HA	2:C:784:LEU:HD13	1.82	0.62
4:E:83:VAL:HG13	4:E:97:ARG:HH21	1.65	0.62
1:A:181:THR:HG21	1:A:189:PHE:CE2	2.34	0.62
1:B:7:PRO:HB3	1:B:25:PRO:O	1.99	0.62
2:C:624:PRO:HA	2:C:718:ASN:HD21	1.64	0.62
2:C:927:ASN:O	2:C:930:GLN:HG2	2.00	0.62
3:D:268:PHE:HE2	3:D:270:ILE:HG22	1.64	0.62
3:D:823:LEU:HD23	3:D:835:PRO:HB3	1.79	0.62
3:D:889:HIS:O	3:D:977:THR:HG23	1.99	0.62
3:D:1009:GLN:O	3:D:1145:GLN:NE2	2.32	0.62
3:D:1270:ILE:HG22	3:D:1272:VAL:HG23	1.80	0.62
1:A:170:PRO:O	1:A:199:LYS:HG2	2.00	0.62
2:C:133:LEU:HB2	2:C:154:MET:HB3	1.79	0.62
2:C:200:HIS:HB2	2:C:216:VAL:CG2	2.29	0.62
2:C:429:GLU:O	2:C:433:THR:OG1	2.18	0.62
2:C:549:ASP:HB3	2:C:553:ARG:CB	2.30	0.62
3:D:1117:ASP:OD2	3:D:1119:HIS:HB2	2.00	0.62
3:D:1189:GLU:OE2	3:D:1192:ARG:NH2	2.28	0.62
5:F:329:ILE:HG22	5:F:333:GLU:OE2	2.00	0.62
5:F:460:LEU:HD13	5:F:464:LEU:HD13	1.79	0.62
5:F:488:THR:HB	8:P:20:DG:OP2	1.98	0.62
1:A:12:ASP:O	1:A:20:GLN:N	2.24	0.62
2:C:295:LEU:O	2:C:299:LEU:HG	2.00	0.62
2:C:507:ASN:ND2	2:C:509:PHE:HB2	2.15	0.62
2:C:631:GLU:OE1	2:C:631:GLU:N	2.31	0.62
2:C:740:ARG:NH1	2:C:744:GLU:OE1	2.33	0.62
2:C:815:THR:HB	2:C:817:GLU:OE1	2.00	0.62
3:D:83:THR:HG23	3:D:84:ARG:O	1.99	0.62
3:D:134:TYR:CD1	3:D:256:MET:HE3	2.35	0.62
3:D:1162:LEU:HD23	3:D:1207:LEU:HD23	1.82	0.62
6:J:34:THR:CG2	6:J:38:GLU:HB2	2.30	0.62
1:A:52:THR:HB	1:A:139:VAL:HG12	1.81	0.62
2:C:41:PHE:CD2	2:C:980:ALA:HB2	2.35	0.62
3:D:151:LEU:HD22	3:D:248:TYR:CE1	2.33	0.62
5:F:455:LEU:HA	5:F:458:ASP:OD2	2.00	0.62
1:A:181:THR:OG1	1:A:189:PHE:N	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:559:VAL:N	2:C:571:VAL:O	2.31	0.62
2:C:650:ILE:CG2	2:C:692:ALA:HA	2.30	0.62
2:C:855:ARG:HE	2:C:861:LEU:HB2	1.65	0.62
2:C:1137:VAL:O	3:D:-1:GLY:N	2.26	0.62
2:C:1139:SER:HA	3:D:8:ASP:H	1.65	0.62
3:D:245:VAL:HA	3:D:252:PHE:HZ	1.65	0.62
3:D:885:ILE:HG22	3:D:994:ALA:CB	2.30	0.62
7:O:2:DC:H2'	7:O:3:DT:C7	2.30	0.62
1:B:3:ILE:HD13	1:B:234:ILE:HG12	1.81	0.61
1:B:18:ARG:NH1	1:B:197:GLU:OE1	2.27	0.61
2:C:140:ILE:HA	2:C:146:GLU:O	1.99	0.61
2:C:652:GLU:HA	2:C:692:ALA:CB	2.30	0.61
2:C:661:MET:HE3	2:C:662:HIS:O	2.00	0.61
2:C:777:SER:HB3	2:C:780:VAL:HG22	1.81	0.61
2:C:1074:TRP:CH2	3:D:875:ARG:HA	2.35	0.61
3:D:49:GLU:OE1	3:D:54:PRO:HA	2.00	0.61
3:D:162:VAL:HG11	3:D:216:LEU:HG	1.82	0.61
3:D:384:ASN:H	3:D:401:SER:HB3	1.65	0.61
3:D:826:ASN:HB3	3:D:830:GLU:N	2.14	0.61
3:D:834:ARG:HB3	3:D:835:PRO:HA	1.82	0.61
3:D:1191:ARG:O	3:D:1194:VAL:HG22	2.00	0.61
1:A:11:GLU:HG2	1:A:21:PHE:CE1	2.35	0.61
1:B:30:PHE:HA	1:B:33:THR:CG2	2.29	0.61
2:C:140:ILE:HG23	2:C:146:GLU:N	2.15	0.61
2:C:369:ASP:O	2:C:375:ASN:ND2	2.27	0.61
2:C:855:ARG:NH1	2:C:862:PRO:O	2.32	0.61
3:D:212:ALA:O	3:D:215:GLU:HG2	2.00	0.61
3:D:328:VAL:O	3:D:335:PHE:HB3	2.01	0.61
8:P:11:DA:H4'	8:P:12:DA:OP1	2.00	0.61
1:B:1:MET:HB2	1:B:232:ILE:HG12	1.82	0.61
1:B:39:ARG:HG3	1:B:174:VAL:CG1	2.31	0.61
2:C:541:VAL:HA	2:C:578:TYR:O	2.00	0.61
2:C:652:GLU:HA	2:C:692:ALA:HB1	1.82	0.61
3:D:600:GLN:HE22	3:D:602:ALA:HB2	1.66	0.61
5:F:296:LEU:CD2	5:F:332:VAL:HG11	2.30	0.61
5:F:415:GLN:O	5:F:418:ARG:CB	2.48	0.61
2:C:853:PHE:O	2:C:868:LEU:N	2.28	0.61
2:C:952:VAL:HG12	2:C:953:PRO:O	2.00	0.61
3:D:874:THR:O	3:D:878:VAL:HG23	2.00	0.61
3:D:893:THR:O	3:D:940:ARG:NH1	2.34	0.61
1:A:40:ARG:NH2	1:B:32:TYR:HB2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3:ILE:HG23	1:B:5:GLN:H	1.65	0.61
2:C:221:THR:HA	2:C:261:THR:CG2	2.30	0.61
2:C:272:GLU:HA	2:C:275:LEU:HD21	1.81	0.61
2:C:1037:VAL:HG11	3:D:520:LYS:HB2	1.83	0.61
3:D:344:TYR:O	3:D:348:ILE:HG12	2.00	0.61
3:D:354:LEU:HD13	3:D:370:GLU:HB3	1.82	0.61
3:D:596:THR:HB	3:D:628:SER:H	1.63	0.61
3:D:866:ARG:HD2	3:D:1010:LEU:O	1.99	0.61
3:D:1266:ARG:HA	4:E:109:GLY:O	2.00	0.61
1:A:214:THR:O	1:A:217:GLU:HB2	2.00	0.61
1:B:1:MET:N	1:B:231:GLY:O	2.34	0.61
2:C:89:VAL:HA	2:C:92:GLU:OE2	2.01	0.61
2:C:557:PRO:HA	2:C:573:SER:OG	2.01	0.61
2:C:1071:MET:CE	3:D:502:PRO:HA	2.29	0.61
3:D:34:ILE:HG13	3:D:40:LYS:C	2.26	0.61
3:D:239:ASN:HD21	3:D:242:ARG:HH21	1.49	0.61
5:F:241:LEU:HD11	5:F:294:HIS:CE1	2.35	0.61
5:F:382:ILE:HA	5:F:385:GLU:OE1	2.01	0.61
1:A:14:LEU:HB2	1:A:19:SER:HA	1.83	0.61
1:B:218:LEU:HD12	1:B:221:LEU:HD12	1.82	0.61
2:C:212:LEU:HA	2:C:226:ILE:HA	1.82	0.61
2:C:675:PHE:N	2:C:685:ASN:OD1	2.34	0.61
2:C:759:ALA:HB3	2:C:867:GLU:N	2.15	0.61
2:C:1007:LYS:HB3	2:C:1022:PRO:HB2	1.81	0.61
1:B:168:TYR:O	1:B:170:PRO:HD3	2.01	0.61
2:C:344:TYR:OH	2:C:366:GLU:N	2.28	0.61
3:D:222:ILE:CB	3:D:240:LEU:HD11	2.30	0.61
3:D:412:ARG:HA	3:D:1227:GLN:NE2	2.15	0.61
3:D:1062:TYR:HB2	3:D:1080:ILE:CB	2.30	0.61
2:C:224:VAL:O	2:C:232:GLN:HB2	2.00	0.61
2:C:310:ARG:HE	2:C:328:ILE:HB	1.64	0.61
3:D:136:ILE:HG13	3:D:229:LEU:HD11	1.81	0.61
3:D:443:LEU:HD12	3:D:444:PRO:CD	2.26	0.61
4:E:42:GLU:HA	4:E:45:ASP:OD2	2.01	0.61
4:E:60:ARG:NH2	4:E:80:GLY:HA3	2.16	0.61
1:B:84:VAL:HG22	1:B:119:HIS:CD2	2.35	0.61
1:B:84:VAL:CG1	1:B:119:HIS:HB2	2.30	0.61
1:B:113:PRO:O	1:B:116:VAL:HG22	2.00	0.61
2:C:233:PRO:HG2	2:C:236:VAL:CG2	2.31	0.61
2:C:774:PRO:HD2	2:C:834:ASP:OD1	2.00	0.61
2:C:855:ARG:N	2:C:866:ASN:O	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:30:LYS:CD	3:D:44:ASP:HB2	2.31	0.61
3:D:127:LYS:HA	3:D:132:ALA:HB3	1.82	0.61
3:D:350:ARG:NH1	3:D:373:MET:O	2.34	0.61
3:D:448:ALA:HA	3:D:451:LEU:HB2	1.83	0.61
3:D:847:LEU:O	3:D:851:ILE:HG12	2.00	0.61
3:D:1088:VAL:HG23	3:D:1098:VAL:N	2.16	0.61
3:D:1219:SER:OG	3:D:1243:ASP:OD2	2.11	0.61
4:E:70:GLN:NE2	4:E:76:LEU:HB2	2.14	0.61
5:F:415:GLN:CB	5:F:418:ARG:CD	2.70	0.61
5:F:499:THR:O	5:F:503:ILE:HG12	2.01	0.61
2:C:320:LEU:HB2	2:C:322:LEU:HG	1.83	0.60
2:C:352:GLN:HB3	2:C:365:VAL:HG21	1.83	0.60
2:C:523:VAL:HA	2:C:552:GLY:C	2.26	0.60
2:C:854:SER:N	2:C:859:ASP:OD2	2.26	0.60
2:C:884:LYS:HE2	2:C:892:LYS:HD2	1.82	0.60
2:C:944:TRP:O	2:C:966:ALA:N	2.31	0.60
2:C:1038:ASP:HA	2:C:1041:ILE:HG22	1.83	0.60
2:C:1074:TRP:HH2	3:D:875:ARG:HA	1.65	0.60
3:D:374:LEU:O	3:D:377:SER:OG	2.11	0.60
3:D:567:SER:HB2	3:D:571:GLY:N	2.16	0.60
3:D:1032:GLN:O	3:D:1036:GLU:N	2.32	0.60
5:F:408:GLU:HA	5:F:411:LEU:HD12	1.83	0.60
6:J:106:ARG:HA	6:J:110:ARG:CG	2.31	0.60
1:A:105:VAL:HG12	1:A:125:ILE:HB	1.82	0.60
2:C:252:PHE:HB3	2:C:255:SER:CB	2.31	0.60
2:C:435:GLN:NE2	2:C:459:GLY:HA2	2.16	0.60
3:D:400:LYS:HA	3:D:404:ASP:OD2	2.00	0.60
3:D:606:HIS:ND1	3:D:607:PRO:O	2.33	0.60
3:D:1168:ILE:HG13	3:D:1202:ALA:CB	2.31	0.60
8:P:21:DT:H1'	8:P:22:DC:H5'	1.82	0.60
1:B:54:ILE:O	1:B:162:ILE:HG13	2.01	0.60
2:C:105:LEU:HA	2:C:139:PHE:HA	1.83	0.60
2:C:185:VAL:HA	2:C:204:VAL:HG22	1.82	0.60
2:C:1057:LEU:HD23	2:C:1062:GLN:HG2	1.82	0.60
3:D:124:ASP:HB3	3:D:234:LEU:CD2	2.31	0.60
3:D:257:GLY:O	3:D:260:SER:OG	2.13	0.60
3:D:749:TYR:HA	3:D:752:ARG:HD3	1.84	0.60
5:F:264:THR:O	5:F:267:SER:OG	2.08	0.60
1:A:181:THR:HG1	1:A:189:PHE:H	1.47	0.60
2:C:223:GLY:HA2	2:C:231:ARG:HH22	1.67	0.60
2:C:1138:LEU:HA	3:D:-1:GLY:H3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:511:ALA:N	3:D:559:MET:O	2.30	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:HE1	1.66	0.60
3:D:1045:PRO:HD2	3:D:1112:MET:HG2	1.84	0.60
1:B:95:MET:HB2	1:B:138:LEU:HB2	1.83	0.60
1:B:183:VAL:HA	1:B:188:ASP:CA	2.30	0.60
2:C:650:ILE:HG13	2:C:694:ASP:HB2	1.83	0.60
2:C:688:PRO:HA	2:C:703:ALA:HB2	1.83	0.60
2:C:862:PRO:HG2	2:C:865:VAL:HG21	1.84	0.60
2:C:1083:TYR:O	2:C:1087:GLU:HG2	2.01	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:CE1	2.36	0.60
5:F:453:PHE:O	5:F:456:LEU:HB3	2.02	0.60
1:B:49:ALA:HB2	1:B:142:ARG:HB3	1.82	0.60
1:B:97:LEU:HD21	1:B:105:VAL:CG1	2.28	0.60
1:B:170:PRO:HA	1:B:199:LYS:CE	2.32	0.60
2:C:407:GLN:HG3	2:C:417:LEU:CD2	2.32	0.60
2:C:855:ARG:HB2	2:C:866:ASN:HA	1.84	0.60
2:C:1050:SER:N	2:C:1055:GLN:O	2.35	0.60
3:D:279:ASP:O	3:D:282:ARG:HB3	2.02	0.60
3:D:453:LYS:HB3	3:D:454:PRO:HD3	1.81	0.60
3:D:496:VAL:O	3:D:511:ALA:HA	2.01	0.60
3:D:607:PRO:O	3:D:609:THR:HG23	2.01	0.60
3:D:671:VAL:O	3:D:675:GLU:HG3	2.01	0.60
3:D:1063:LYS:HZ2	3:D:1078:ASP:HB3	1.66	0.60
5:F:234:GLN:HA	5:F:237:LYS:CE	2.31	0.60
1:B:87:SER:HG	1:B:116:VAL:HA	1.66	0.60
2:C:163:LYS:HE2	2:C:640:ASP:OD1	2.01	0.60
2:C:644:ALA:HB3	2:C:700:GLN:H	1.65	0.60
2:C:760:ARG:HB2	2:C:767:GLU:OE2	2.02	0.60
3:D:1158:VAL:HA	3:D:1161:MET:CG	2.32	0.60
5:F:364:ARG:HD2	5:F:368:ILE:HD12	1.82	0.60
5:F:506:ILE:O	5:F:510:THR:HG23	2.02	0.60
1:A:3:ILE:HD11	1:A:27:GLU:OE2	2.02	0.60
1:A:95:MET:HA	1:A:113:PRO:HD3	1.84	0.60
1:B:223:ARG:HG2	1:B:227:VAL:HG22	1.83	0.60
2:C:413:THR:HG23	2:C:415:GLN:HB3	1.84	0.60
2:C:524:VAL:HG12	2:C:525:SER:O	2.01	0.60
2:C:647:SER:HA	2:C:697:GLU:HA	1.83	0.60
2:C:721:VAL:HG23	2:C:915:ILE:O	2.02	0.60
3:D:237:ASP:O	3:D:238:GLU:HG3	2.01	0.60
3:D:360:LEU:HD21	5:F:329:ILE:HG21	1.84	0.60
3:D:1151:ASP:O	3:D:1155:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1187:GLU:O	3:D:1191:ARG:HG2	2.01	0.60
6:J:58:ASN:HD21	6:J:60:MET:HE3	1.66	0.60
2:C:470:LEU:HD22	2:C:473:ARG:HD2	1.83	0.60
2:C:507:ASN:HA	2:C:513:GLU:CD	2.26	0.60
2:C:1139:SER:OG	3:D:6:PHE:HB3	2.02	0.60
3:D:121:ALA:HB3	3:D:124:ASP:OD2	2.02	0.60
5:F:334:LYS:NZ	7:O:25:DC:H3'	2.17	0.60
2:C:71:ARG:HH11	2:C:82:PRO:HB2	1.66	0.60
2:C:191:ILE:HG13	2:C:197:LYS:C	2.27	0.60
2:C:252:PHE:HB3	2:C:255:SER:HB2	1.84	0.60
2:C:442:GLN:HG3	2:C:678:SER:OG	2.02	0.60
2:C:488:THR:O	2:C:610:ASN:ND2	2.28	0.60
2:C:559:VAL:O	2:C:571:VAL:HG12	2.02	0.60
2:C:944:TRP:NE1	2:C:963:LEU:O	2.30	0.60
2:C:1051:MET:HE1	5:F:441:ASP:OD1	1.65	0.60
3:D:76:GLU:N	3:D:76:GLU:OE1	2.31	0.60
3:D:334:ARG:NH1	5:F:419:GLU:N	2.36	0.60
3:D:1128:ARG:HA	3:D:1131:GLN:OE1	2.02	0.60
3:D:1190:ASN:O	3:D:1194:VAL:HG13	2.01	0.60
1:B:96:TYR:HB2	1:B:111:VAL:CG1	2.32	0.59
2:C:152:VAL:HG21	2:C:418:ILE:CD1	2.32	0.59
2:C:601:ASP:OD2	2:C:603:ASN:ND2	2.35	0.59
3:D:263:LYS:HA	3:D:266:GLU:OE1	2.01	0.59
3:D:826:ASN:HA	3:D:832:ILE:HD11	1.82	0.59
3:D:1050:THR:HG23	3:D:1107:VAL:CG2	2.28	0.59
5:F:318:LEU:HD23	5:F:321:ILE:CD1	2.31	0.59
6:J:76:LYS:HG2	6:J:77:PRO:O	2.02	0.59
2:C:689:ILE:HG12	2:C:702:ILE:O	2.02	0.59
2:C:1040:LYS:C	2:C:1060:LYS:HE3	2.26	0.59
3:D:594:GLY:N	3:D:598:GLU:OE2	2.34	0.59
3:D:771:ASN:O	3:D:775:VAL:HG23	2.01	0.59
5:F:414:GLN:O	5:F:418:ARG:CG	2.35	0.59
5:F:439:ILE:HG13	6:J:6:LEU:HD11	1.81	0.59
1:A:56:ILE:O	1:A:59:VAL:HG22	2.02	0.59
1:B:96:TYR:CD1	1:B:137:GLU:HG2	2.36	0.59
2:C:50:VAL:HG11	2:C:633:ARG:HG2	1.83	0.59
2:C:641:VAL:HG22	2:C:705:GLY:N	2.16	0.59
2:C:721:VAL:HG22	2:C:722:ALA:O	2.02	0.59
3:D:970:THR:CG2	3:D:975:CYS:HB3	2.33	0.59
5:F:415:GLN:CA	5:F:418:ARG:CG	2.53	0.59
1:A:53:SER:CB	1:A:163:PRO:HA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ARG:HB3	1:A:137:GLU:OE2	2.02	0.59
1:B:106:THR:CG2	1:B:124:HIS:HA	2.33	0.59
2:C:54:LEU:O	2:C:58:THR:HG23	2.02	0.59
2:C:205:ILE:HG22	2:C:211:TRP:CD1	2.37	0.59
2:C:584:ARG:O	2:C:587:VAL:HG12	2.03	0.59
2:C:677:ARG:HB2	2:C:752:ILE:HG21	1.84	0.59
2:C:887:GLY:HA3	2:C:1028:MET:HE2	1.83	0.59
2:C:1073:CYS:O	2:C:1075:ALA:CA	2.49	0.59
3:D:460:LEU:HD11	3:D:472:ALA:CB	2.31	0.59
3:D:878:VAL:HG22	3:D:1000:ALA:CB	2.26	0.59
3:D:924:THR:OG1	3:D:963:ARG:HB2	2.02	0.59
5:F:262:LEU:HA	5:F:265:GLU:CG	2.32	0.59
1:B:12:ASP:O	1:B:20:GLN:N	2.22	0.59
2:C:675:PHE:HA	2:C:683:CYS:SG	2.42	0.59
2:C:768:GLU:O	2:C:805:LYS:HG2	2.02	0.59
2:C:1007:LYS:CB	2:C:1022:PRO:HB2	2.32	0.59
3:D:177:LEU:CD1	3:D:198:ARG:HA	2.31	0.59
3:D:592:VAL:O	3:D:595:ASP:HB2	2.01	0.59
3:D:636:ARG:HG2	3:D:662:TRP:C	2.28	0.59
1:A:23:ILE:HG22	1:A:26:LEU:HD21	1.83	0.59
1:A:53:SER:HB3	1:A:163:PRO:HA	1.84	0.59
1:A:216:VAL:HG13	1:B:216:VAL:HG23	1.85	0.59
1:A:223:ARG:HG3	1:B:213:LYS:N	2.18	0.59
2:C:278:TYR:CE2	2:C:287:PRO:HA	2.37	0.59
2:C:641:VAL:HG13	2:C:703:ALA:O	2.02	0.59
2:C:651:GLU:CD	2:C:667:ARG:HD2	2.27	0.59
2:C:751:HIS:O	2:C:874:ALA:HA	2.03	0.59
2:C:822:ARG:HH12	2:C:829:ALA:HA	1.66	0.59
3:D:136:ILE:CD1	3:D:229:LEU:HD11	2.33	0.59
3:D:686:LYS:HB2	3:D:688:MET:HE1	1.83	0.59
3:D:738:VAL:HB	3:D:739:PRO:HD2	1.83	0.59
2:C:128:THR:OG1	2:C:168:ILE:HA	2.03	0.59
2:C:275:LEU:HB3	2:C:289:LYS:NZ	2.18	0.59
2:C:652:GLU:N	2:C:659:THR:OG1	2.36	0.59
2:C:747:LEU:HB2	2:C:879:ILE:HB	1.85	0.59
2:C:994:PRO:HB3	2:C:999:ASP:N	2.13	0.59
3:D:11:ARG:HA	3:D:1242:SER:HA	1.84	0.59
3:D:212:ALA:HA	3:D:215:GLU:HG2	1.83	0.59
3:D:612:TYR:HD1	3:D:617:GLU:HG2	1.68	0.59
4:E:84:GLU:O	4:E:97:ARG:NH2	2.36	0.59
8:P:3:DC:H1'	8:P:4:DA:C5'	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:LEU:CG	1:A:20:GLN:HG3	2.33	0.59
1:B:175:THR:CG2	1:B:195:ASP:HB3	2.33	0.59
2:C:945:LYS:HA	2:C:965:GLU:CA	2.30	0.59
3:D:101:VAL:HG13	3:D:375:GLN:OE1	2.03	0.59
3:D:365:ILE:H	3:D:365:ILE:HD12	1.65	0.59
3:D:457:MET:HE3	3:D:473:LYS:N	2.17	0.59
3:D:589:THR:HG21	3:D:688:MET:HG2	1.85	0.59
3:D:638:THR:HG22	3:D:661:ALA:HA	1.83	0.59
3:D:742:LYS:O	3:D:746:LEU:HG	2.02	0.59
4:E:67:TYR:O	4:E:71:LEU:HG	2.02	0.59
4:E:95:ALA:O	4:E:99:ILE:HG13	2.03	0.59
5:F:373:VAL:HG12	5:F:377:ASN:HD21	1.67	0.59
2:C:1072:GLU:HA	2:C:1075:ALA:CB	2.32	0.59
3:D:412:ARG:H	3:D:1227:GLN:HG3	1.68	0.59
3:D:460:LEU:HD11	3:D:472:ALA:HB2	1.84	0.59
3:D:481:PRO:HA	3:D:484:TRP:CD1	2.36	0.59
3:D:642:PRO:HB3	3:D:662:TRP:CZ3	2.38	0.59
5:F:243:ALA:O	5:F:247:VAL:HG23	2.03	0.59
5:F:463:VAL:HA	5:F:466:THR:HG23	1.85	0.59
3:D:459:ARG:O	3:D:462:ASP:HB2	2.01	0.59
3:D:820:MET:HE3	3:D:837:LYS:HG2	1.85	0.59
3:D:1055:LEU:HD21	3:D:1086:LEU:HD21	1.84	0.59
6:J:64:LEU:HD23	6:J:65:ILE:HG22	1.85	0.59
1:A:214:THR:CG2	1:B:232:ILE:HB	2.33	0.58
1:B:87:SER:HB3	1:B:89:GLU:OE1	2.03	0.58
2:C:92:GLU:HG3	2:C:93:LEU:CD2	2.33	0.58
2:C:105:LEU:HD13	2:C:139:PHE:HB2	1.84	0.58
2:C:381:VAL:O	2:C:385:ILE:HG12	2.03	0.58
2:C:548:ILE:HG12	2:C:554:PHE:CE1	2.37	0.58
2:C:737:LEU:HD23	2:C:915:ILE:HG22	1.85	0.58
2:C:1054:GLN:C	2:C:1055:GLN:HG3	2.27	0.58
2:C:1076:MET:HE1	2:C:1085:LEU:N	2.18	0.58
3:D:25:TYR:HA	6:J:57:ARG:HG3	1.84	0.58
3:D:215:GLU:O	3:D:219:LEU:HD23	2.03	0.58
3:D:362:ALA:HB1	3:D:363:PRO:HD2	1.85	0.58
3:D:553:ALA:HB1	4:E:54:VAL:HG13	1.84	0.58
3:D:641:ARG:HG3	3:D:647:GLU:OE2	2.03	0.58
3:D:898:VAL:HG12	3:D:961:LYS:N	2.17	0.58
3:D:926:GLY:CA	3:D:940:ARG:HG3	2.31	0.58
3:D:1070:ASP:N	3:D:1071:GLY:HA2	2.18	0.58
3:D:1181:ILE:HB	3:D:1185:GLU:OE1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:292:LYS:O	5:F:296:LEU:HG	2.03	0.58
5:F:408:GLU:OE1	5:F:408:GLU:N	2.31	0.58
5:F:411:LEU:O	5:F:415:GLN:HG3	2.03	0.58
1:A:97:LEU:HB3	1:A:136:VAL:CG1	2.33	0.58
2:C:102:SER:HB2	2:C:143:ASN:HD21	1.68	0.58
2:C:147:ILE:O	2:C:148:LYS:HD2	2.02	0.58
2:C:212:LEU:CB	2:C:226:ILE:HG13	2.33	0.58
2:C:945:LYS:HG3	2:C:965:GLU:HB3	1.84	0.58
3:D:56:ARG:HG2	6:J:13:ALA:N	2.16	0.58
3:D:119:ASP:HB2	3:D:295:ARG:HH21	1.66	0.58
3:D:120:LEU:HD11	3:D:232:LYS:HD3	1.86	0.58
3:D:162:VAL:HB	3:D:216:LEU:HD21	1.85	0.58
3:D:241:TYR:O	3:D:245:VAL:HG23	2.02	0.58
3:D:1036:GLU:CB	3:D:1038:ARG:HG2	2.33	0.58
5:F:333:GLU:HA	6:J:81:HIS:CE1	2.38	0.58
5:F:476:ARG:HA	5:F:481:LEU:HD12	1.86	0.58
6:J:97:LEU:HA	6:J:100:GLU:OE1	2.03	0.58
1:A:14:LEU:CB	1:A:19:SER:HA	2.34	0.58
1:A:99:LYS:HB3	1:A:134:LEU:HB3	1.85	0.58
1:B:48:GLY:N	1:B:143:GLY:O	2.36	0.58
1:B:104:GLU:HG2	1:B:127:THR:HA	1.84	0.58
2:C:39:VAL:HG11	2:C:963:LEU:HD21	1.83	0.58
2:C:115:VAL:HG11	2:C:129:TYR:CZ	2.39	0.58
2:C:413:THR:CG2	2:C:415:GLN:HB3	2.33	0.58
2:C:456:SER:CB	2:C:497:ILE:HG12	2.33	0.58
3:D:49:GLU:CD	3:D:54:PRO:HA	2.28	0.58
3:D:212:ALA:HA	3:D:215:GLU:CD	2.27	0.58
3:D:612:TYR:OH	3:D:627:LEU:HD11	2.03	0.58
3:D:615:PRO:O	3:D:619:ILE:HG13	2.03	0.58
3:D:1150:HIS:ND1	3:D:1152:LYS:HG2	2.18	0.58
4:E:60:ARG:HD2	4:E:63:GLN:OE1	2.04	0.58
5:F:325:ASN:O	5:F:329:ILE:HG13	2.02	0.58
5:F:462:SER:O	5:F:466:THR:HG23	2.03	0.58
1:A:108:GLY:CA	1:A:121:PRO:HB3	2.33	0.58
1:B:72:ASP:OD2	1:B:74:THR:HG22	2.03	0.58
2:C:768:GLU:N	2:C:806:VAL:O	2.36	0.58
2:C:1003:ASP:OD2	2:C:1005:ASP:HB2	2.03	0.58
3:D:345:ARG:NE	5:F:365:THR:HA	2.18	0.58
3:D:1084:GLN:C	3:D:1085:ARG:HD2	2.28	0.58
3:D:1158:VAL:HA	3:D:1161:MET:SD	2.44	0.58
6:J:55:LEU:HG	6:J:60:MET:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:LEU:CG	2:C:292:ALA:HB1	2.34	0.58
3:D:73:ILE:O	3:D:81:GLU:HG3	2.03	0.58
3:D:125:LEU:HA	3:D:128:ILE:HD12	1.84	0.58
3:D:127:LYS:CA	3:D:132:ALA:HB3	2.34	0.58
3:D:192:ASP:OD2	3:D:196:LYS:HE3	2.04	0.58
3:D:457:MET:HA	3:D:460:LEU:HD21	1.85	0.58
3:D:689:HIS:O	3:D:693:GLN:HG3	2.03	0.58
3:D:737:LEU:HB2	3:D:793:TYR:HE1	1.68	0.58
3:D:1053:VAL:HG22	3:D:1055:LEU:N	2.19	0.58
5:F:464:LEU:HD23	5:F:476:ARG:HE	1.69	0.58
2:C:216:VAL:HG11	2:C:349:HIS:CD2	2.39	0.58
3:D:550:GLU:HG3	4:E:58:ALA:HB1	1.84	0.58
3:D:1087:ARG:NH1	3:D:1110:GLN:OE1	2.37	0.58
3:D:1247:GLY:O	3:D:1259:PRO:HG3	2.04	0.58
5:F:334:LYS:HZ1	7:O:25:DC:H3'	1.67	0.58
5:F:455:LEU:HD13	5:F:458:ASP:OD2	2.04	0.58
1:A:97:LEU:HB3	1:A:136:VAL:HG12	1.85	0.58
1:B:96:TYR:HB2	1:B:111:VAL:HG11	1.86	0.58
2:C:310:ARG:O	2:C:328:ILE:HG21	2.04	0.58
2:C:603:ASN:O	2:C:607:MET:HG3	2.04	0.58
2:C:660:VAL:CG2	2:C:668:ARG:HB3	2.34	0.58
2:C:789:ILE:HG22	2:C:803:VAL:CG2	2.33	0.58
2:C:881:ASP:HA	2:C:895:ILE:CG2	2.33	0.58
2:C:1067:ARG:CG	3:D:421:ARG:HA	2.33	0.58
3:D:173:ARG:HD3	3:D:204:GLU:HB2	1.85	0.58
3:D:599:TYR:HA	3:D:610:GLY:HA3	1.84	0.58
3:D:767:HIS:O	3:D:770:ARG:HG3	2.03	0.58
3:D:827:PRO:HG3	3:D:854:HIS:CB	2.29	0.58
3:D:1066:ILE:HD12	3:D:1075:VAL:CB	2.34	0.58
1:A:214:THR:HG23	1:B:232:ILE:HB	1.86	0.58
2:C:105:LEU:HD12	2:C:138:GLU:O	2.03	0.58
2:C:158:PRO:HG2	2:C:431:PHE:CE2	2.38	0.58
3:D:667:THR:O	3:D:671:VAL:HG23	2.04	0.58
3:D:963:ARG:HD3	3:D:978:CYS:SG	2.43	0.58
1:A:14:LEU:CD1	1:A:20:GLN:HG3	2.34	0.58
1:B:27:GLU:HB2	1:B:30:PHE:CE2	2.39	0.58
3:D:33:THR:CB	3:D:327:MET:HE1	2.33	0.58
3:D:739:PRO:CG	3:D:742:LYS:HB2	2.34	0.58
3:D:742:LYS:HE2	3:D:746:LEU:HD21	1.85	0.58
5:F:336:ASP:OD2	5:F:339:LYS:HG3	2.03	0.58
2:C:72:GLU:O	2:C:76:GLU:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:104:SER:O	2:C:140:ILE:N	2.20	0.58
2:C:543:GLN:CD	3:D:847:LEU:HD11	2.28	0.58
3:D:134:TYR:CD1	3:D:256:MET:HB2	2.39	0.58
3:D:468:ASN:OD1	3:D:471:SER:N	2.20	0.58
3:D:557:ILE:CD1	4:E:54:VAL:HG22	2.34	0.58
3:D:668:LEU:HD23	3:D:672:MET:HE2	1.85	0.58
3:D:672:MET:HA	3:D:675:GLU:OE1	2.04	0.58
3:D:905:ALA:HB2	3:D:911:ILE:HG23	1.86	0.58
3:D:990:ASP:OD2	4:E:49:SER:HB2	2.04	0.58
1:A:127:THR:C	1:A:128:LEU:HD12	2.29	0.57
1:B:64:THR:O	1:B:65:THR:OG1	2.21	0.57
2:C:62:GLU:O	2:C:65:ILE:HB	2.04	0.57
2:C:240:ALA:HA	2:C:274:LEU:HD21	1.86	0.57
2:C:408:ASP:OD1	2:C:412:ILE:HG23	2.03	0.57
2:C:583:PRO:O	2:C:584:ARG:HD2	2.04	0.57
2:C:780:VAL:HG23	2:C:781:LEU:CD1	2.34	0.57
3:D:177:LEU:HD12	3:D:180:ASP:HB2	1.86	0.57
3:D:457:MET:HA	3:D:460:LEU:CD2	2.34	0.57
3:D:910:LEU:HD21	3:D:956:GLY:HA2	1.86	0.57
3:D:989:VAL:CG2	3:D:993:GLU:HG3	2.34	0.57
5:F:306:LEU:CD1	5:F:351:ILE:HG21	2.34	0.57
6:J:85:LEU:HD11	6:J:89:ARG:HG3	1.85	0.57
1:B:49:ALA:HA	1:B:142:ARG:CA	2.31	0.57
1:B:54:ILE:O	1:B:162:ILE:N	2.31	0.57
1:B:98:ARG:HG2	1:B:135:GLU:CB	2.33	0.57
1:B:145:GLY:O	1:B:169:SER:N	2.36	0.57
2:C:291:SER:HA	2:C:294:THR:OG1	2.04	0.57
2:C:560:LEU:HA	2:C:569:GLU:O	2.04	0.57
2:C:715:LEU:O	2:C:1031:MET:HG2	2.04	0.57
3:D:614:SER:O	3:D:617:GLU:HB3	2.03	0.57
3:D:823:LEU:HD23	3:D:835:PRO:CB	2.34	0.57
3:D:912:ARG:HG2	3:D:913:ASP:O	2.04	0.57
1:A:97:LEU:HD13	1:A:110:ILE:HA	1.87	0.57
2:C:238:LEU:HG	2:C:248:ILE:HG12	1.86	0.57
2:C:314:TYR:HB2	2:C:328:ILE:HG12	1.87	0.57
2:C:533:ALA:O	2:C:536:GLU:HB3	2.04	0.57
2:C:563:ARG:HD3	2:C:564:LYS:H	1.69	0.57
2:C:733:ASP:O	2:C:735:ILE:HG13	2.04	0.57
3:D:851:ILE:HA	3:D:854:HIS:HD2	1.68	0.57
3:D:1248:LEU:O	3:D:1252:VAL:HG23	2.04	0.57
5:F:331:ALA:HB2	5:F:350:TRP:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:386:LEU:HD13	5:F:398:GLU:OE2	2.05	0.57
1:B:39:ARG:HG3	1:B:174:VAL:HG11	1.86	0.57
2:C:83:VAL:HA	2:C:87:GLU:OE1	2.04	0.57
2:C:278:TYR:O	2:C:282:ARG:HG2	2.04	0.57
2:C:401:ARG:HA	2:C:404:MET:HB2	1.86	0.57
2:C:473:ARG:NH2	2:C:496:LEU:HD11	2.19	0.57
2:C:882:GLY:H	2:C:895:ILE:HB	1.68	0.57
3:D:276:SER:O	3:D:280:VAL:HG23	2.04	0.57
3:D:329:GLN:HG2	6:J:9:SER:O	2.05	0.57
3:D:882:GLN:O	3:D:1248:LEU:HD21	2.04	0.57
2:C:139:PHE:HB3	2:C:148:LYS:HB2	1.85	0.57
2:C:681:GLY:O	2:C:752:ILE:N	2.37	0.57
3:D:428:SER:HB3	3:D:522:ILE:CD1	2.34	0.57
3:D:1088:VAL:CA	3:D:1098:VAL:HA	2.28	0.57
4:E:50:LYS:O	4:E:54:VAL:HG23	2.05	0.57
2:C:820:LEU:HD11	2:C:824:ILE:HD11	1.86	0.57
2:C:988:LEU:O	2:C:991:CYS:N	2.32	0.57
2:C:1071:MET:SD	3:D:503:THR:N	2.76	0.57
2:C:1084:THR:O	2:C:1088:LEU:HG	2.05	0.57
2:C:1123:VAL:O	2:C:1127:GLU:HG3	2.05	0.57
3:D:74:ILE:HG12	3:D:81:GLU:CA	2.35	0.57
3:D:206:ARG:HB2	3:D:209:ARG:CZ	2.35	0.57
3:D:639:GLN:NE2	3:D:658:PRO:O	2.34	0.57
3:D:656:TRP:HE3	3:D:658:PRO:HD2	1.70	0.57
3:D:866:ARG:NH1	3:D:1011:THR:HA	2.19	0.57
3:D:946:ASP:HB2	3:D:947:PRO:HD3	1.87	0.57
3:D:1275:THR:HG22	4:E:103:LEU:O	2.04	0.57
5:F:241:LEU:HB3	5:F:245:GLU:CG	2.35	0.57
5:F:242:ASN:O	5:F:245:GLU:HB2	2.04	0.57
5:F:367:ARG:NH2	7:O:22:DG:OP1	2.37	0.57
1:B:18:ARG:HG3	1:B:197:GLU:HB2	1.85	0.57
2:C:244:THR:OG1	2:C:247:GLN:HG3	2.05	0.57
2:C:616:VAL:HG22	2:C:1032:LYS:O	2.04	0.57
2:C:982:GLU:O	2:C:986:GLN:HG3	2.04	0.57
2:C:1068:PHE:H	3:D:422:VAL:HG23	1.70	0.57
3:D:119:ASP:HB2	3:D:295:ARG:NH2	2.20	0.57
3:D:173:ARG:HG2	3:D:205:MET:HB2	1.85	0.57
3:D:329:GLN:HE21	6:J:9:SER:HG	1.52	0.57
3:D:589:THR:HG21	3:D:688:MET:CG	2.34	0.57
3:D:895:ARG:HB2	3:D:967:THR:HB	1.85	0.57
5:F:459:GLN:O	5:F:462:SER:OG	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:63:PHE:HB2	3:D:603:SER:OG	2.04	0.57
1:B:175:THR:HG22	1:B:195:ASP:HB3	1.87	0.57
2:C:134:PHE:HA	2:C:152:VAL:O	2.04	0.57
2:C:443:ASN:OD1	2:C:447:SER:HB3	2.04	0.57
2:C:581:VAL:HG22	2:C:585:GLN:OE1	2.05	0.57
2:C:632:LEU:O	2:C:636:ILE:HG23	2.04	0.57
2:C:888:ARG:NH2	2:C:933:GLU:OE2	2.26	0.57
2:C:1054:GLN:C	2:C:1055:GLN:CG	2.78	0.57
3:D:158:GLU:O	3:D:162:VAL:HG23	2.04	0.57
3:D:1162:LEU:CD2	3:D:1207:LEU:HD23	2.34	0.57
1:A:177:LYS:N	1:A:193:ILE:O	2.33	0.57
2:C:312:GLY:O	2:C:316:VAL:HG23	2.05	0.57
2:C:716:GLY:N	2:C:1029:TYR:OH	2.38	0.57
2:C:943:GLY:O	2:C:993:LEU:HG	2.05	0.57
2:C:1042:HIS:NE2	2:C:1063:PHE:O	2.37	0.57
3:D:30:LYS:HD2	3:D:44:ASP:HB2	1.87	0.57
3:D:173:ARG:HG2	3:D:205:MET:CA	2.35	0.57
3:D:341:ASN:O	3:D:345:ARG:HG3	2.05	0.57
3:D:444:PRO:HG2	3:D:447:MET:HB3	1.87	0.57
3:D:466:ALA:HB1	3:D:471:SER:OG	2.05	0.57
5:F:276:ALA:O	5:F:279:ARG:HG2	2.04	0.57
6:J:28:GLN:O	6:J:44:PHE:N	2.38	0.57
6:J:106:ARG:HA	6:J:110:ARG:CD	2.35	0.57
1:A:53:SER:HB2	1:A:162:ILE:O	2.05	0.57
1:A:80:LEU:HD22	1:A:83:LEU:HD11	1.86	0.57
1:B:3:ILE:HG12	1:B:234:ILE:HG23	1.84	0.57
2:C:103:MET:HB2	2:C:139:PHE:HZ	1.68	0.57
2:C:529:VAL:HG12	2:C:531:LEU:HG	1.87	0.57
2:C:650:ILE:N	2:C:694:ASP:O	2.22	0.57
2:C:1103:TYR:O	2:C:1107:VAL:HG23	2.04	0.57
3:D:52:PHE:CD2	3:D:322:PRO:HG3	2.40	0.57
3:D:75:CYS:O	3:D:79:GLY:N	2.26	0.57
3:D:319:VAL:HG13	3:D:344:TYR:CZ	2.40	0.57
3:D:915:TYR:CE1	3:D:1143:ARG:HG2	2.40	0.57
3:D:927:THR:HG21	3:D:961:LYS:HB3	1.86	0.57
3:D:1272:VAL:HG22	4:E:106:HIS:CB	2.35	0.57
7:O:19:DA:H4'	7:O:20:DT:OP1	2.05	0.57
1:A:147:VAL:HG22	1:A:148:PRO:O	2.05	0.56
2:C:185:VAL:HG12	2:C:204:VAL:HG22	1.87	0.56
2:C:674:LYS:HZ2	2:C:685:ASN:HB3	1.70	0.56
2:C:884:LYS:CE	2:C:892:LYS:HD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:LYS:CA	3:D:80:VAL:HG22	2.34	0.56
4:E:70:GLN:HG3	4:E:73:GLU:OE2	2.05	0.56
6:J:108:ARG:CD	6:J:109:ARG:H	2.17	0.56
2:C:225:ARG:HG3	2:C:230:ARG:N	2.19	0.56
2:C:483:MET:HE3	2:C:498:GLY:HA3	1.85	0.56
2:C:540:VAL:HG22	2:C:576:VAL:HG22	1.87	0.56
2:C:582:SER:HB2	2:C:583:PRO:HD2	1.86	0.56
2:C:674:LYS:NZ	2:C:685:ASN:HB3	2.19	0.56
2:C:759:ALA:CB	2:C:867:GLU:HB3	2.34	0.56
2:C:1097:VAL:O	2:C:1101:LYS:HG2	2.05	0.56
3:D:706:MET:N	4:E:41:ASP:OD2	2.37	0.56
4:E:38:PRO:HG2	4:E:43:LEU:HD21	1.87	0.56
1:A:5:GLN:NE2	1:A:25:PRO:HG3	2.20	0.56
1:A:8:THR:O	1:A:23:ILE:HG23	2.06	0.56
1:A:24:GLU:HA	1:A:26:LEU:HG	1.88	0.56
1:A:27:GLU:O	1:A:30:PHE:HB3	2.04	0.56
1:A:105:VAL:CG1	1:A:125:ILE:HB	2.35	0.56
1:B:51:VAL:CA	1:B:140:VAL:HG22	2.35	0.56
1:B:53:SER:CB	1:B:163:PRO:HA	2.35	0.56
2:C:129:TYR:CE2	2:C:159:MET:HB2	2.41	0.56
2:C:206:PRO:HG2	2:C:209:GLY:HA3	1.88	0.56
2:C:220:ASP:OD2	2:C:257:ILE:HA	2.05	0.56
2:C:239:LYS:NZ	2:C:268:VAL:HA	2.21	0.56
2:C:239:LYS:HZ3	2:C:268:VAL:HA	1.70	0.56
2:C:482:ARG:HG2	2:C:512:ILE:HG21	1.86	0.56
2:C:612:GLN:HG3	2:C:1031:MET:SD	2.45	0.56
2:C:648:GLY:O	2:C:696:VAL:N	2.37	0.56
2:C:883:ASP:OD1	2:C:1037:VAL:HG23	2.05	0.56
2:C:982:GLU:OE2	3:D:841:ARG:NH2	2.38	0.56
2:C:1124:LEU:O	2:C:1128:LEU:HG	2.05	0.56
3:D:27:GLU:HB2	3:D:94:HIS:NE2	2.20	0.56
3:D:206:ARG:HA	3:D:209:ARG:CG	2.34	0.56
3:D:229:LEU:HA	3:D:233:GLN:OE1	2.05	0.56
3:D:289:LYS:O	3:D:293:LEU:HG	2.05	0.56
3:D:328:VAL:CG1	3:D:336:ALA:HB3	2.35	0.56
3:D:340:LEU:HA	3:D:343:LEU:HD12	1.85	0.56
3:D:601:PRO:HA	3:D:608:GLU:CB	2.35	0.56
3:D:1065:THR:HG23	3:D:1076:VAL:HA	1.87	0.56
3:D:1274:PRO:HG2	4:E:79:VAL:CG1	2.36	0.56
5:F:442:SER:CB	6:J:7:ARG:HD3	2.31	0.56
5:F:446:VAL:CG1	5:F:449:ASP:OD2	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:19:DA:C8	7:O:20:DT:H72	2.40	0.56
1:A:152:ASN:ND2	1:A:161:ARG:HB2	2.20	0.56
2:C:506:VAL:HG12	2:C:507:ASN:O	2.06	0.56
2:C:882:GLY:N	2:C:895:ILE:HB	2.21	0.56
2:C:922:VAL:HB	2:C:923:PRO:HD3	1.86	0.56
3:D:203:ARG:O	3:D:206:ARG:HG2	2.05	0.56
1:A:61:HIS:CD2	1:A:63:PHE:HB2	2.41	0.56
1:A:172:LEU:HD12	1:A:197:GLU:OE2	2.04	0.56
2:C:50:VAL:HA	2:C:503:TYR:HE1	1.71	0.56
2:C:771:ARG:HD2	2:C:786:GLU:HA	1.87	0.56
2:C:989:LEU:HD21	2:C:1006:GLY:N	2.20	0.56
3:D:69:ARG:HB2	6:J:20:ARG:HH22	1.71	0.56
3:D:185:GLU:HA	3:D:194:ARG:NH1	2.16	0.56
3:D:741:ARG:HB2	3:D:744:GLU:OE2	2.04	0.56
3:D:911:ILE:HD12	3:D:911:ILE:O	2.06	0.56
5:F:356:THR:HA	5:F:359:MET:SD	2.46	0.56
8:P:17:DT:H1'	8:P:18:DT:H5'	1.88	0.56
1:A:32:TYR:CE1	2:C:1018:PRO:HD3	2.41	0.56
2:C:658:ILE:O	2:C:669:THR:HA	2.04	0.56
2:C:1133:LEU:O	2:C:1135:VAL:HG23	2.06	0.56
3:D:199:ASP:O	3:D:203:ARG:HG3	2.04	0.56
5:F:315:MET:SD	5:F:359:MET:HA	2.46	0.56
1:A:113:PRO:O	1:A:116:VAL:HG22	2.04	0.56
2:C:799:GLY:N	2:C:839:VAL:HG13	2.20	0.56
2:C:1079:TYR:CD2	3:D:559:MET:HG2	2.40	0.56
3:D:74:ILE:HG12	3:D:81:GLU:HA	1.88	0.56
3:D:435:GLN:OE1	3:D:435:GLN:N	2.32	0.56
3:D:1030:ARG:O	3:D:1034:LEU:HG	2.06	0.56
3:D:1142:TYR:O	3:D:1147:VAL:N	2.37	0.56
3:D:1158:VAL:HA	3:D:1161:MET:HG3	1.88	0.56
1:A:25:PRO:O	1:A:26:LEU:HD23	2.04	0.56
1:A:26:LEU:H	1:A:189:PHE:HB2	1.70	0.56
1:B:39:ARG:O	1:B:43:LEU:HD13	2.06	0.56
2:C:41:PHE:HB3	2:C:43:LYS:NZ	2.21	0.56
2:C:540:VAL:CG1	2:C:576:VAL:HA	2.36	0.56
3:D:78:CYS:SG	3:D:79:GLY:N	2.79	0.56
3:D:235:ILE:HD13	3:D:241:TYR:HD1	1.71	0.56
3:D:624:ARG:HB3	3:D:626:VAL:HG23	1.88	0.56
3:D:905:ALA:HB3	3:D:909:THR:N	2.21	0.56
3:D:923:ARG:NH2	3:D:1155:GLU:OE2	2.37	0.56
3:D:1181:ILE:HD11	3:D:1186:PHE:CB	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:241:LEU:HB3	5:F:245:GLU:CB	2.35	0.56
5:F:339:LYS:HB3	5:F:341:TYR:CE2	2.41	0.56
5:F:502:ARG:NH2	7:O:1:DG:H3'	2.21	0.56
7:O:11:DA:C2'	7:O:12:DG:H5''	2.30	0.56
1:A:95:MET:HG2	1:A:138:LEU:HB2	1.86	0.56
1:B:104:GLU:CG	1:B:127:THR:HG22	2.34	0.56
1:B:210:SER:O	1:B:214:THR:HG23	2.06	0.56
2:C:230:ARG:NH2	5:F:212:LEU:HA	2.21	0.56
2:C:762:THR:N	2:C:765:GLY:O	2.38	0.56
3:D:58:TRP:HA	3:D:82:VAL:HG23	1.86	0.56
3:D:84:ARG:HD3	3:D:86:LYS:CE	2.33	0.56
3:D:642:PRO:HD2	3:D:657:GLN:NE2	2.21	0.56
3:D:893:THR:HG21	3:D:967:THR:O	2.06	0.56
5:F:438:PHE:C	6:J:6:LEU:CG	2.71	0.56
5:F:476:ARG:CA	5:F:481:LEU:HB2	2.36	0.56
1:B:169:SER:HB3	1:B:171:VAL:CG2	2.35	0.56
2:C:138:GLU:HA	2:C:148:LYS:O	2.06	0.56
2:C:344:TYR:CE1	2:C:365:VAL:HA	2.40	0.56
2:C:731:TYR:N	2:C:734:ALA:HB3	2.21	0.56
2:C:759:ALA:HB3	2:C:867:GLU:H	1.71	0.56
3:D:350:ARG:HA	3:D:353:ARG:NH1	2.21	0.56
3:D:760:PHE:CD1	3:D:770:ARG:HG2	2.41	0.56
3:D:775:VAL:CG1	3:D:779:LYS:HE3	2.36	0.56
5:F:334:LYS:NZ	7:O:25:DC:OP1	2.38	0.56
1:B:162:ILE:HD12	1:B:162:ILE:O	2.06	0.55
1:B:183:VAL:HA	1:B:188:ASP:H	1.70	0.55
2:C:48:LEU:HG	2:C:49:GLU:O	2.05	0.55
2:C:71:ARG:NH1	2:C:82:PRO:O	2.39	0.55
2:C:131:ALA:N	2:C:157:PHE:O	2.39	0.55
2:C:653:VAL:HA	2:C:658:ILE:HG12	1.88	0.55
2:C:677:ARG:HG3	2:C:752:ILE:HB	1.88	0.55
2:C:720:LEU:HA	2:C:1026:GLY:O	2.06	0.55
2:C:802:LEU:HD11	2:C:839:VAL:HA	1.87	0.55
2:C:1054:GLN:O	2:C:1055:GLN:HG3	2.04	0.55
3:D:153:ALA:O	3:D:157:VAL:HG23	2.05	0.55
3:D:1061:PHE:HB2	3:D:1080:ILE:O	2.06	0.55
3:D:1108:GLY:HA3	3:D:1125:GLN:NE2	2.21	0.55
3:D:1276:GLU:HA	3:D:1279:ARG:CB	2.36	0.55
5:F:253:ILE:HG12	5:F:288:GLY:O	2.05	0.55
5:F:335:PHE:O	6:J:88:ARG:NH1	2.39	0.55
5:F:471:GLU:O	5:F:475:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:106:ARG:HA	6:J:110:ARG:HD3	1.87	0.55
1:A:85:VAL:HG23	1:A:117:THR:C	2.31	0.55
1:A:97:LEU:O	1:A:136:VAL:N	2.39	0.55
1:A:105:VAL:HB	1:A:126:ALA:N	2.20	0.55
1:A:172:LEU:CB	1:A:199:LYS:HB3	2.34	0.55
1:A:181:THR:HG21	1:A:189:PHE:CZ	2.41	0.55
2:C:306:TYR:HE2	2:C:333:LEU:HG	1.70	0.55
2:C:424:VAL:HA	2:C:427:ILE:HD12	1.89	0.55
2:C:601:ASP:OD1	2:C:602:ALA:N	2.40	0.55
2:C:689:ILE:HG13	2:C:690:VAL:HG13	1.88	0.55
2:C:756:GLU:OE1	2:C:870:ARG:HD3	2.07	0.55
2:C:767:GLU:HG2	2:C:807:THR:CG2	2.36	0.55
2:C:889:HIS:HB2	2:C:891:ASN:CG	2.32	0.55
3:D:137:THR:HG23	3:D:253:THR:OG1	2.06	0.55
3:D:929:ALA:O	3:D:937:ILE:N	2.38	0.55
3:D:1260:ALA:O	3:D:1263:GLY:N	2.40	0.55
5:F:258:TYR:CD1	6:J:94:LEU:HD13	2.41	0.55
5:F:456:LEU:HA	5:F:526:TYR:CE2	2.41	0.55
1:B:103:GLY:N	1:B:128:LEU:HB2	2.22	0.55
2:C:33:PRO:HG2	2:C:700:GLN:HG3	1.88	0.55
2:C:255:SER:HB3	2:C:258:MET:CG	2.37	0.55
2:C:518:LYS:HB3	2:C:578:TYR:CE1	2.40	0.55
2:C:756:GLU:CB	2:C:870:ARG:HG2	2.36	0.55
2:C:995:ASN:OD1	2:C:996:ARG:N	2.37	0.55
2:C:1003:ASP:OD1	2:C:1006:GLY:N	2.38	0.55
2:C:1067:ARG:O	2:C:1067:ARG:HG2	2.06	0.55
2:C:1071:MET:HE1	3:D:501:ALA:HB1	1.88	0.55
3:D:27:GLU:HB2	3:D:94:HIS:CE1	2.42	0.55
3:D:370:GLU:HB2	5:F:322:GLN:NE2	2.21	0.55
3:D:400:LYS:HG3	3:D:404:ASP:CB	2.37	0.55
3:D:902:ALA:CB	3:D:912:ARG:HA	2.35	0.55
3:D:1052:ARG:HA	3:D:1104:HIS:CA	2.35	0.55
3:D:1054:ARG:HB3	3:D:1065:THR:O	2.06	0.55
1:A:18:ARG:HB3	1:A:197:GLU:HA	1.87	0.55
1:A:179:ASP:CB	1:A:191:LYS:HB3	2.29	0.55
1:A:185:GLN:HB2	1:A:187:THR:HG22	1.88	0.55
1:A:195:ASP:OD1	1:A:196:VAL:N	2.39	0.55
1:A:211:ALA:O	1:A:215:LEU:HD23	2.06	0.55
1:A:216:VAL:HG13	1:B:216:VAL:CG2	2.35	0.55
1:B:50:ALA:C	1:B:140:VAL:HG13	2.31	0.55
1:B:101:GLY:O	1:B:128:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:134:PHE:CD1	2:C:153:PHE:HA	2.41	0.55
2:C:168:ILE:HG22	2:C:169:ASN:OD1	2.07	0.55
2:C:272:GLU:O	2:C:275:LEU:HG	2.05	0.55
2:C:541:VAL:C	2:C:561:VAL:HG23	2.32	0.55
2:C:651:GLU:OE1	2:C:667:ARG:HD2	2.07	0.55
2:C:1049:TYR:HA	2:C:1056:PRO:CA	2.36	0.55
3:D:18:GLU:HA	3:D:21:ARG:HG2	1.87	0.55
8:P:5:DC:H2"	8:P:6:DA:OP2	2.07	0.55
1:B:183:VAL:HA	1:B:188:ASP:N	2.22	0.55
2:C:189:GLU:HB3	2:C:200:HIS:CG	2.41	0.55
2:C:208:ARG:NH2	2:C:305:ARG:HA	2.22	0.55
2:C:298:ASN:HD22	2:C:302:LYS:HE2	1.72	0.55
2:C:413:THR:OG1	2:C:414:PRO:HD2	2.06	0.55
2:C:622:GLU:O	2:C:714:ALA:HB1	2.07	0.55
3:D:158:GLU:OE2	3:D:219:LEU:HG	2.06	0.55
3:D:295:ARG:O	3:D:299:VAL:HG23	2.07	0.55
3:D:381:LEU:O	3:D:401:SER:HB2	2.07	0.55
3:D:589:THR:HG21	3:D:688:MET:HB2	1.89	0.55
3:D:873:LEU:O	3:D:877:LEU:HG	2.07	0.55
3:D:965:VAL:HG11	3:D:1156:VAL:CG2	2.32	0.55
4:E:56:TYR:OH	4:E:104:LEU:HB2	2.07	0.55
5:F:463:VAL:HA	5:F:466:THR:CG2	2.36	0.55
1:B:85:VAL:HG23	1:B:118:VAL:N	2.21	0.55
2:C:255:SER:HB3	2:C:258:MET:HB2	1.89	0.55
2:C:275:LEU:HB3	2:C:289:LYS:HZ3	1.70	0.55
2:C:650:ILE:HG12	2:C:694:ASP:C	2.32	0.55
2:C:760:ARG:HA	2:C:864:GLY:O	2.07	0.55
2:C:790:VAL:HG13	2:C:802:LEU:O	2.06	0.55
3:D:134:TYR:HB2	3:D:235:ILE:HB	1.89	0.55
3:D:599:TYR:CD2	3:D:601:PRO:HD3	2.42	0.55
3:D:729:VAL:HB	3:D:798:PRO:HB3	1.89	0.55
3:D:1181:ILE:HD12	3:D:1185:GLU:CG	2.37	0.55
1:B:146:TYR:HD1	1:B:167:ILE:HA	1.71	0.55
2:C:59:ASP:HA	2:C:62:GLU:HG2	1.87	0.55
2:C:150:GLN:CD	2:C:414:PRO:HG2	2.32	0.55
2:C:210:ALA:HB3	2:C:300:PHE:HE1	1.72	0.55
2:C:380:THR:O	2:C:384:LEU:HG	2.07	0.55
2:C:563:ARG:HB3	2:C:567:GLU:HB2	1.88	0.55
2:C:785:ASP:N	2:C:789:ILE:O	2.24	0.55
2:C:792:ILE:HD11	2:C:850:ILE:HD12	1.89	0.55
2:C:905:PRO:HA	2:C:1011:PHE:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:955:TRP:CE2	2:C:987:GLY:HA3	2.42	0.55
2:C:1055:GLN:NE2	3:D:420:LYS:HD3	2.22	0.55
2:C:1067:ARG:HH12	3:D:418:LEU:HD21	1.70	0.55
2:C:1094:ASP:CB	2:C:1119:GLU:H	2.20	0.55
3:D:1033:GLU:HA	3:D:1036:GLU:CB	2.34	0.55
5:F:289:ASP:O	5:F:292:LYS:HB3	2.06	0.55
1:A:34:LEU:O	1:A:37:SER:HB3	2.06	0.55
1:B:52:THR:HB	1:B:139:VAL:CG1	2.35	0.55
2:C:301:PHE:HE1	2:C:334:THR:HA	1.70	0.55
2:C:384:LEU:HA	2:C:387:ASN:ND2	2.21	0.55
2:C:505:ARG:NH2	2:C:513:GLU:OE1	2.34	0.55
2:C:543:GLN:HA	2:C:580:ASP:OD2	2.07	0.55
2:C:853:PHE:CD2	2:C:868:LEU:HD12	2.41	0.55
2:C:1096:THR:HA	2:C:1099:ARG:CZ	2.35	0.55
3:D:1167:ILE:HG23	3:D:1169:ASP:O	2.07	0.55
5:F:247:VAL:HG13	5:F:251:LYS:HE3	1.89	0.55
5:F:322:GLN:HA	5:F:325:ASN:ND2	2.21	0.55
5:F:342:LYS:HG2	7:O:29:DA:H3'	1.88	0.55
2:C:278:TYR:CD2	2:C:287:PRO:HA	2.41	0.55
2:C:376:ARG:NH2	2:C:457:ALA:HB2	2.22	0.55
2:C:722:ALA:O	2:C:723:ILE:HD13	2.07	0.55
2:C:736:ILE:HD11	2:C:916:ILE:HB	1.88	0.55
3:D:64:LYS:HG2	3:D:65:TYR:CE2	2.41	0.55
3:D:127:LYS:O	3:D:132:ALA:N	2.37	0.55
3:D:329:GLN:OE1	6:J:11:LEU:HD21	2.07	0.55
3:D:674:ASN:HD21	3:D:684:VAL:H	1.55	0.55
3:D:747:ASP:O	3:D:751:GLU:HG3	2.06	0.55
5:F:445:VAL:HG12	5:F:447:ALA:N	2.22	0.55
1:A:107:ALA:HB3	1:A:121:PRO:C	2.31	0.55
1:B:98:ARG:HA	1:B:134:LEU:O	2.07	0.55
2:C:191:ILE:HA	2:C:198:THR:HA	1.89	0.55
2:C:236:VAL:HG13	2:C:273:ALA:HB1	1.89	0.55
2:C:1119:GLU:O	2:C:1123:VAL:HG23	2.07	0.55
3:D:131:PHE:CD1	3:D:256:MET:HG2	2.42	0.55
3:D:181:LEU:HD21	3:D:198:ARG:CD	2.37	0.55
3:D:468:ASN:ND2	3:D:470:LYS:HB3	2.21	0.55
3:D:896:GLY:N	3:D:967:THR:HG21	2.22	0.55
3:D:1066:ILE:HG13	3:D:1077:TYR:HE2	1.72	0.55
5:F:439:ILE:CG1	6:J:6:LEU:HD12	2.26	0.55
6:J:6:LEU:HD12	6:J:6:LEU:O	2.07	0.55
1:A:33:THR:CG2	1:B:37:SER:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:GLU:HG2	1:A:142:ARG:O	2.06	0.54
2:C:147:ILE:C	2:C:148:LYS:HD2	2.33	0.54
2:C:435:GLN:HG3	2:C:436:LEU:HD12	1.87	0.54
2:C:696:VAL:HB	2:C:700:GLN:OE1	2.06	0.54
3:D:826:ASN:ND2	3:D:828:LYS:HB2	2.22	0.54
3:D:845:THR:N	3:D:848:GLU:OE1	2.39	0.54
1:A:145:GLY:N	1:A:168:TYR:HB2	2.21	0.54
1:A:174:VAL:O	2:C:910:GLY:HA3	2.06	0.54
1:B:90:ASP:OD1	1:B:142:ARG:HD3	2.07	0.54
1:B:98:ARG:HG2	1:B:135:GLU:CA	2.34	0.54
2:C:789:ILE:HG22	2:C:803:VAL:HG13	1.89	0.54
3:D:86:LYS:O	3:D:89:ARG:HB3	2.08	0.54
3:D:262:GLN:O	3:D:266:GLU:HG3	2.08	0.54
3:D:524:LEU:HD21	3:D:528:VAL:HG23	1.89	0.54
3:D:530:GLU:HB2	3:D:578:ARG:HH11	1.73	0.54
3:D:736:VAL:HG22	3:D:799:ILE:HD13	1.90	0.54
8:P:14:DA:H1'	8:P:15:DC:H5'	1.88	0.54
1:A:147:VAL:CG1	1:A:166:SER:HB2	2.37	0.54
1:B:63:PHE:HB2	3:D:603:SER:CB	2.36	0.54
2:C:41:PHE:HB3	2:C:43:LYS:HZ2	1.71	0.54
2:C:277:ILE:HD13	2:C:280:LYS:NZ	2.23	0.54
2:C:306:TYR:OH	2:C:333:LEU:HD11	2.08	0.54
3:D:64:LYS:HE3	3:D:75:CYS:SG	2.47	0.54
3:D:206:ARG:HA	3:D:209:ARG:HG3	1.88	0.54
3:D:356:ARG:HA	3:D:359:ASP:OD2	2.06	0.54
3:D:423:ASP:OD1	3:D:424:TYR:N	2.39	0.54
3:D:438:LEU:HA	3:D:525:HIS:CD2	2.42	0.54
3:D:820:MET:HG3	3:D:837:LYS:C	2.32	0.54
3:D:895:ARG:NH1	3:D:967:THR:HA	2.23	0.54
3:D:922:ALA:CB	3:D:981:ARG:HB3	2.37	0.54
3:D:1025:THR:HG22	3:D:1030:ARG:HB2	1.89	0.54
1:A:74:THR:HA	1:A:77:ILE:CG1	2.38	0.54
2:C:222:VAL:HB	2:C:234:VAL:HG13	1.88	0.54
2:C:222:VAL:CG2	2:C:233:PRO:HA	2.36	0.54
2:C:647:SER:CB	2:C:697:GLU:HA	2.37	0.54
2:C:718:ASN:C	2:C:719:LEU:HD12	2.32	0.54
2:C:841:HIS:O	2:C:843:GLU:HG3	2.07	0.54
2:C:1007:LYS:HD2	2:C:1022:PRO:O	2.07	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CD1	2.42	0.54
3:D:457:MET:O	3:D:460:LEU:HG	2.08	0.54
3:D:585:LEU:O	3:D:589:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:612:TYR:CZ	3:D:627:LEU:HD11	2.43	0.54
3:D:672:MET:HA	3:D:675:GLU:CD	2.32	0.54
3:D:921:TYR:HA	3:D:944:LEU:O	2.07	0.54
5:F:317:PHE:O	5:F:321:ILE:HG13	2.08	0.54
7:O:24:DG:H1'	7:O:25:DC:H5'	1.90	0.54
1:B:73:VAL:O	1:B:77:ILE:HG13	2.08	0.54
1:B:137:GLU:C	1:B:138:LEU:HD12	2.33	0.54
2:C:113:ASP:HB2	2:C:132:PRO:HD2	1.88	0.54
2:C:187:PHE:N	2:C:368:ASP:OD2	2.41	0.54
3:D:55:THR:O	6:J:12:GLY:HA3	2.07	0.54
3:D:334:ARG:NH1	5:F:419:GLU:O	2.41	0.54
3:D:367:VAL:CG1	3:D:371:LYS:HE3	2.37	0.54
3:D:914:PRO:HG2	3:D:915:TYR:CD2	2.43	0.54
3:D:1028:LEU:HB3	3:D:1029:PRO:HD3	1.88	0.54
5:F:241:LEU:HD11	5:F:294:HIS:HE1	1.70	0.54
8:P:22:DC:H2''	8:P:23:DA:C8	2.43	0.54
1:A:54:ILE:CG2	1:A:138:LEU:HA	2.34	0.54
1:A:113:PRO:HD2	1:A:116:VAL:HG21	1.89	0.54
1:A:177:LYS:O	1:A:193:ILE:N	2.41	0.54
1:B:71:GLU:OE2	1:B:127:THR:HG23	2.08	0.54
2:C:89:VAL:HA	2:C:92:GLU:HG2	1.90	0.54
2:C:106:SER:O	2:C:138:GLU:N	2.27	0.54
2:C:516:TYR:CE2	2:C:531:LEU:HB2	2.42	0.54
2:C:540:VAL:HG11	2:C:575:GLU:O	2.08	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CE1	2.42	0.54
3:D:662:TRP:CZ3	3:D:664:ALA:HB2	2.43	0.54
3:D:684:VAL:HG13	3:D:686:LYS:NZ	2.21	0.54
3:D:721:PHE:O	3:D:725:THR:HG23	2.08	0.54
3:D:910:LEU:CD2	3:D:956:GLY:HA2	2.38	0.54
3:D:1169:ASP:O	3:D:1201:ALA:HB1	2.07	0.54
5:F:315:MET:CE	5:F:362:GLN:HB2	2.37	0.54
1:A:107:ALA:HB3	1:A:121:PRO:CA	2.37	0.54
2:C:182:SER:CB	2:C:377:ARG:HD2	2.37	0.54
2:C:232:GLN:NE2	2:C:233:PRO:HD2	2.23	0.54
2:C:373:PHE:CE2	2:C:479:HIS:HA	2.43	0.54
2:C:622:GLU:HB3	2:C:717:LYS:HD3	1.90	0.54
2:C:907:LEU:CD1	2:C:911:THR:HB	2.29	0.54
2:C:1035:HIS:HA	2:C:1040:LYS:HZ1	1.73	0.54
3:D:472:ALA:O	3:D:476:VAL:HG23	2.07	0.54
3:D:736:VAL:CG1	3:D:841:ARG:HD2	2.37	0.54
3:D:880:VAL:HG21	3:D:1210:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1056:GLU:HB3	3:D:1063:LYS:O	2.08	0.54
3:D:1234:THR:O	3:D:1238:ILE:HG13	2.07	0.54
3:D:1251:ASN:HA	3:D:1254:ILE:CG1	2.37	0.54
4:E:56:TYR:CE2	4:E:99:ILE:HG12	2.43	0.54
5:F:440:GLU:C	6:J:7:ARG:HA	2.31	0.54
5:F:478:ARG:NH1	8:P:20:DG:OP1	2.23	0.54
1:B:107:ALA:CB	1:B:123:MET:HB3	2.37	0.54
2:C:97:GLU:HG3	2:C:103:MET:O	2.08	0.54
2:C:516:TYR:CD2	2:C:531:LEU:HB2	2.43	0.54
2:C:820:LEU:HD13	5:F:479:PHE:CE2	2.40	0.54
2:C:1023:VAL:HG13	3:D:730:THR:HG21	1.90	0.54
3:D:937:ILE:HD11	3:D:951:ALA:CB	2.35	0.54
3:D:1009:GLN:O	3:D:1011:THR:HG23	2.08	0.54
3:D:1050:THR:H	3:D:1107:VAL:HG22	1.73	0.54
5:F:502:ARG:O	5:F:506:ILE:HG13	2.08	0.54
2:C:200:HIS:CD2	2:C:348:LEU:HG	2.43	0.54
2:C:320:LEU:HA	2:C:363:VAL:HG11	1.89	0.54
2:C:522:GLY:O	2:C:553:ARG:HA	2.07	0.54
2:C:1070:GLU:OE1	3:D:417:LEU:HB2	2.08	0.54
2:C:1111:ASN:ND2	4:E:65:ASN:HB3	2.22	0.54
3:D:797:ASN:O	3:D:801:THR:OG1	2.23	0.54
8:P:20:DG:H1'	8:P:21:DT:C5'	2.37	0.54
1:A:87:SER:HB3	1:A:142:ARG:CD	2.38	0.54
1:A:221:LEU:HD12	1:A:225:LEU:CD2	2.37	0.54
1:B:182:ARG:CD	1:B:185:GLN:HB3	2.36	0.54
2:C:229:LYS:O	2:C:230:ARG:HB3	2.07	0.54
2:C:725:PRO:HA	2:C:730:ASN:ND2	2.23	0.54
2:C:840:PRO:HG2	2:C:843:GLU:CD	2.32	0.54
3:D:811:PHE:O	3:D:814:THR:HB	2.08	0.54
5:F:317:PHE:CD2	5:F:321:ILE:HD11	2.43	0.54
7:O:3:DT:H1'	7:O:4:DT:C5'	2.38	0.54
7:O:5:DG:H1'	7:O:6:DA:H5'	1.90	0.54
1:A:55:ARG:NE	1:A:137:GLU:OE2	2.40	0.53
1:A:144:ARG:CD	1:B:1:MET:HE2	2.38	0.53
1:B:24:GLU:HB2	1:B:25:PRO:HA	1.90	0.53
1:B:63:PHE:HB2	3:D:603:SER:HB3	1.90	0.53
1:B:75:GLU:HA	1:B:78:LEU:CD2	2.37	0.53
2:C:104:SER:HB3	2:C:142:ASN:OD1	2.09	0.53
2:C:677:ARG:HD2	2:C:752:ILE:HG22	1.89	0.53
2:C:1054:GLN:NE2	3:D:89:ARG:HH22	2.06	0.53
3:D:590:THR:HG23	3:D:630:ARG:CD	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:612:TYR:HB2	3:D:635:VAL:CG1	2.33	0.53
3:D:1276:GLU:HA	3:D:1279:ARG:HB3	1.90	0.53
1:B:172:LEU:HB2	1:B:198:THR:HA	1.90	0.53
2:C:38:ARG:HA	2:C:971:ILE:HG13	1.89	0.53
2:C:220:ASP:CG	2:C:257:ILE:HG12	2.33	0.53
2:C:352:GLN:HB2	2:C:365:VAL:HG11	1.89	0.53
2:C:558:ARG:NH2	2:C:570:TYR:HB2	2.23	0.53
2:C:571:VAL:HG21	2:C:575:GLU:HB2	1.90	0.53
2:C:683:CYS:HA	2:C:752:ILE:HD11	1.89	0.53
2:C:883:ASP:O	2:C:895:ILE:HG13	2.08	0.53
2:C:900:PRO:HD2	2:C:903:ASP:OD2	2.08	0.53
3:D:114:LEU:HD23	3:D:312:MET:HE2	1.89	0.53
3:D:369:ASN:OD1	3:D:372:ARG:NH2	2.41	0.53
3:D:668:LEU:HA	3:D:671:VAL:CG2	2.39	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:HA	1.91	0.53
3:D:1166:THR:HG22	3:D:1204:ARG:O	2.08	0.53
1:B:19:SER:HB2	1:B:204:PRO:HG2	1.90	0.53
1:B:75:GLU:CD	1:B:78:LEU:HD11	2.33	0.53
2:C:113:ASP:HB2	2:C:132:PRO:HB2	1.90	0.53
2:C:118:PRO:HG2	2:C:121:GLU:HB3	1.89	0.53
2:C:610:ASN:OD1	2:C:613:ARG:NH2	2.42	0.53
2:C:624:PRO:HB3	2:C:1029:TYR:CG	2.44	0.53
2:C:672:MET:HE1	2:C:703:ALA:HB2	1.90	0.53
2:C:818:GLU:OE2	2:C:822:ARG:NE	2.41	0.53
2:C:1127:GLU:O	2:C:1131:LEU:HG	2.09	0.53
3:D:30:LYS:HE3	3:D:44:ASP:OD2	2.07	0.53
3:D:71:LYS:C	3:D:73:ILE:HG12	2.33	0.53
3:D:339:ASP:HB2	5:F:424:ASP:OD2	2.08	0.53
3:D:457:MET:HE1	3:D:473:LYS:HB2	1.89	0.53
3:D:587:TYR:O	3:D:630:ARG:HD3	2.09	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:CB	2.39	0.53
5:F:488:THR:HB	8:P:20:DG:P	2.48	0.53
6:J:27:ARG:HB2	6:J:44:PHE:O	2.08	0.53
1:A:173:LYS:O	1:A:197:GLU:HB3	2.08	0.53
1:B:21:PHE:O	1:B:194:LEU:N	2.41	0.53
1:B:170:PRO:O	1:B:199:LYS:HE3	2.08	0.53
2:C:396:MET:O	2:C:400:VAL:HG23	2.09	0.53
2:C:592:ALA:CB	2:C:630:MET:HG3	2.36	0.53
2:C:654:SER:OG	2:C:657:TYR:N	2.26	0.53
2:C:816:PRO:HB2	5:F:481:LEU:HD23	1.90	0.53
3:D:525:HIS:CG	3:D:526:PRO:HD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:642:PRO:HB3	3:D:662:TRP:CH2	2.43	0.53
3:D:673:PHE:CZ	3:D:688:MET:HG3	2.44	0.53
3:D:1046:ILE:HA	3:D:1110:GLN:HA	1.89	0.53
5:F:329:ILE:O	5:F:333:GLU:HG3	2.08	0.53
5:F:440:GLU:N	6:J:7:ARG:HA	2.23	0.53
8:P:3:DC:H1'	8:P:4:DA:H5'	1.91	0.53
1:B:78:LEU:CA	1:B:81:LYS:HE2	2.35	0.53
2:C:39:VAL:CG1	2:C:963:LEU:HD21	2.38	0.53
2:C:133:LEU:CD1	2:C:157:PHE:HB2	2.37	0.53
2:C:689:ILE:HG12	2:C:702:ILE:C	2.34	0.53
2:C:719:LEU:O	2:C:1028:MET:N	2.33	0.53
2:C:821:LEU:HD23	5:F:527:LEU:HD21	1.90	0.53
2:C:1081:ALA:HB1	3:D:554:GLU:CD	2.34	0.53
3:D:494:HIS:CD2	3:D:545:LEU:HD11	2.43	0.53
3:D:606:HIS:HB2	3:D:607:PRO:HD2	1.90	0.53
3:D:790:ARG:HB2	3:D:811:PHE:CZ	2.44	0.53
5:F:339:LYS:HD2	7:O:27:DA:C5	2.43	0.53
5:F:381:ARG:HG2	5:F:385:GLU:OE2	2.09	0.53
8:P:12:DA:H3'	8:P:12:DA:OP2	2.08	0.53
1:A:14:LEU:HD21	1:A:20:GLN:CD	2.34	0.53
2:C:68:PRO:HA	2:C:71:ARG:CB	2.39	0.53
2:C:89:VAL:HA	2:C:92:GLU:CD	2.33	0.53
2:C:376:ARG:HH21	2:C:457:ALA:HB2	1.73	0.53
2:C:519:VAL:HA	2:C:524:VAL:HA	1.90	0.53
2:C:541:VAL:HG22	2:C:578:TYR:CB	2.33	0.53
2:C:560:LEU:HD22	2:C:568:VAL:CG1	2.39	0.53
2:C:759:ALA:O	2:C:866:ASN:N	2.41	0.53
2:C:801:ILE:HD13	2:C:838:LYS:CG	2.35	0.53
3:D:35:ASN:O	3:D:39:LEU:HD23	2.09	0.53
3:D:206:ARG:O	3:D:209:ARG:HG3	2.09	0.53
3:D:1085:ARG:HB2	3:D:1113:GLU:CD	2.34	0.53
3:D:1248:LEU:HD12	3:D:1249:LYS:N	2.23	0.53
5:F:386:LEU:HB2	5:F:394:PRO:HG2	1.91	0.53
1:A:220:GLY:HA2	1:A:223:ARG:CB	2.39	0.53
2:C:688:PRO:HA	2:C:703:ALA:CB	2.39	0.53
2:C:717:LYS:O	2:C:1029:TYR:HA	2.08	0.53
2:C:1072:GLU:HG2	3:D:509:ILE:HG13	1.89	0.53
2:C:1118:PRO:HG2	2:C:1121:PHE:CB	2.38	0.53
3:D:134:TYR:CB	3:D:235:ILE:HB	2.38	0.53
3:D:165:GLN:NE2	3:D:169:GLU:OE2	2.41	0.53
3:D:284:GLY:O	3:D:289:LYS:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:334:ARG:HH12	5:F:419:GLU:CA	2.20	0.53
3:D:672:MET:O	3:D:675:GLU:HB2	2.08	0.53
3:D:1081:SER:HB2	3:D:1084:GLN:HG2	1.90	0.53
3:D:1182:ASP:OD1	3:D:1183:ARG:N	2.41	0.53
3:D:1270:ILE:HG12	4:E:108:GLU:HA	1.90	0.53
5:F:405:ILE:HD12	5:F:409:LYS:CG	2.39	0.53
8:P:25:DG:H2''	8:P:26:DC:H6	1.74	0.53
1:A:43:LEU:HD23	2:C:902:GLU:CA	2.38	0.53
1:A:221:LEU:CD2	1:B:7:PRO:HG2	2.39	0.53
1:B:30:PHE:HB3	1:B:34:LEU:HD23	1.90	0.53
1:B:146:TYR:CB	3:D:620:MET:HE2	2.38	0.53
1:B:180:ALA:O	1:B:183:VAL:HG13	2.09	0.53
2:C:563:ARG:HG3	2:C:565:ALA:H	1.74	0.53
2:C:600:ASP:CG	2:C:927:ASN:HA	2.34	0.53
2:C:689:ILE:HD11	2:C:701:VAL:HG12	1.90	0.53
2:C:772:ASP:O	2:C:773:ILE:HD13	2.09	0.53
2:C:1100:VAL:HG12	5:F:447:ALA:HB1	1.91	0.53
3:D:114:LEU:CD2	3:D:312:MET:HE2	2.39	0.53
3:D:1043:LYS:HA	3:D:1115:SER:O	2.08	0.53
4:E:64:ILE:O	4:E:67:TYR:HB3	2.09	0.53
1:B:50:ALA:O	1:B:140:VAL:HG13	2.08	0.53
2:C:161:THR:OG1	2:C:165:THR:N	2.23	0.53
2:C:403:ARG:HD3	2:C:407:GLN:NE2	2.23	0.53
2:C:674:LYS:HZ2	2:C:686:GLN:N	2.05	0.53
2:C:1007:LYS:HG2	2:C:1024:THR:N	2.24	0.53
2:C:1008:ALA:O	2:C:1022:PRO:HA	2.09	0.53
2:C:1068:PHE:CB	3:D:422:VAL:CG2	2.81	0.53
3:D:16:THR:O	3:D:20:ILE:HG13	2.08	0.53
3:D:58:TRP:O	3:D:66:LYS:HA	2.09	0.53
3:D:58:TRP:HD1	3:D:82:VAL:HG22	1.74	0.53
3:D:147:GLU:OE2	3:D:150:THR:OG1	2.23	0.53
3:D:876:ARG:O	3:D:880:VAL:HG23	2.09	0.53
3:D:1251:ASN:HB3	3:D:1256:LYS:O	2.09	0.53
3:D:1271:ALA:HB3	4:E:107:THR:OG1	2.08	0.53
5:F:276:ALA:HA	5:F:279:ARG:HG2	1.90	0.53
7:O:19:DA:H2'	7:O:20:DT:C7	2.39	0.53
1:A:83:LEU:HD23	1:A:123:MET:SD	2.49	0.53
2:C:65:ILE:HG23	2:C:112:PHE:CE2	2.43	0.53
2:C:208:ARG:HG2	2:C:307:ASP:O	2.09	0.53
2:C:334:THR:HG23	2:C:337:ASP:N	2.17	0.53
2:C:548:ILE:HG12	2:C:554:PHE:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:816:PRO:HA	2:C:819:ARG:CZ	2.39	0.53
2:C:1124:LEU:HD23	11:D:1404:C0L:C01	2.39	0.53
3:D:35:ASN:HD22	3:D:38:THR:HG22	1.73	0.53
3:D:107:PHE:HB2	3:D:114:LEU:HD12	1.91	0.53
3:D:119:ASP:C	3:D:120:LEU:HD12	2.34	0.53
3:D:887:ARG:HD2	3:D:972:THR:O	2.09	0.53
5:F:353:GLN:HG3	7:O:26:DT:O4	2.08	0.53
6:J:52:GLY:HA2	6:J:64:LEU:HD12	1.91	0.53
6:J:80:THR:OG1	6:J:82:TRP:HB3	2.09	0.53
6:J:107:SER:HA	6:J:111:GLY:C	2.33	0.53
8:P:8:DT:H2''	8:P:9:DT:O5'	2.09	0.53
1:A:110:ILE:O	1:A:112:PRO:HD3	2.08	0.52
1:A:220:GLY:HA2	1:A:223:ARG:HB3	1.90	0.52
2:C:295:LEU:HG	2:C:299:LEU:HD11	1.91	0.52
3:D:480:ARG:O	3:D:483:VAL:HG12	2.09	0.52
3:D:573:PRO:C	3:D:574:LEU:HD12	2.34	0.52
3:D:1086:LEU:HG	3:D:1099:LEU:HD23	1.91	0.52
3:D:1198:GLY:C	3:D:1200:PRO:HD3	2.34	0.52
1:B:15:THR:CG2	1:B:18:ARG:HB3	2.40	0.52
1:B:93:VAL:HG12	1:B:140:VAL:O	2.10	0.52
2:C:152:VAL:HG11	2:C:418:ILE:HD13	1.91	0.52
2:C:280:LYS:O	2:C:283:PRO:HD3	2.09	0.52
2:C:993:LEU:HD12	2:C:993:LEU:O	2.09	0.52
2:C:1050:SER:OG	2:C:1051:MET:N	2.40	0.52
3:D:49:GLU:O	3:D:53:GLY:N	2.39	0.52
3:D:104:ILE:HG23	3:D:105:TRP:CD1	2.44	0.52
3:D:282:ARG:HG3	3:D:283:ASN:OD1	2.09	0.52
3:D:548:SER:O	3:D:552:GLN:HG3	2.09	0.52
4:E:60:ARG:HH11	4:E:63:GLN:HB2	1.74	0.52
5:F:459:GLN:O	5:F:463:VAL:HG23	2.09	0.52
1:A:52:THR:HB	1:A:139:VAL:CG1	2.39	0.52
1:B:7:PRO:HA	1:B:25:PRO:CD	2.37	0.52
1:B:53:SER:HB2	1:B:162:ILE:C	2.34	0.52
2:C:117:ALA:HB3	2:C:122:CYS:SG	2.49	0.52
2:C:153:PHE:CE2	2:C:155:GLY:HA2	2.44	0.52
2:C:334:THR:CG2	2:C:336:GLU:HB3	2.39	0.52
2:C:540:VAL:HG13	2:C:576:VAL:HA	1.91	0.52
3:D:53:GLY:O	3:D:88:ARG:NH1	2.35	0.52
3:D:548:SER:OG	3:D:551:ALA:N	2.23	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:HG	1.91	0.52
3:D:1274:PRO:HA	4:E:104:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1275:THR:HA	4:E:105:GLU:OE1	2.09	0.52
1:B:76:ILE:O	1:B:80:LEU:HG	2.09	0.52
1:B:147:VAL:CG1	1:B:166:SER:HB2	2.39	0.52
2:C:55:ASP:HA	2:C:58:THR:HG1	1.74	0.52
2:C:77:ARG:HG2	2:C:77:ARG:O	2.08	0.52
2:C:160:MET:SD	2:C:164:GLY:HA2	2.50	0.52
2:C:206:PRO:HG3	2:C:306:TYR:CE1	2.44	0.52
2:C:323:HIS:ND1	2:C:326:GLU:OE2	2.36	0.52
2:C:658:ILE:HD11	2:C:688:PRO:CB	2.36	0.52
2:C:824:ILE:CG1	5:F:511:MET:HE1	2.40	0.52
2:C:881:ASP:HA	2:C:895:ILE:HG21	1.91	0.52
2:C:1073:CYS:O	2:C:1076:MET:N	2.42	0.52
3:D:100:PRO:HG2	3:D:262:GLN:OE1	2.09	0.52
3:D:704:TYR:HB3	3:D:705:PRO:HD2	1.91	0.52
3:D:820:MET:CE	3:D:837:LYS:HA	2.34	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:CG	2.40	0.52
4:E:30:ASP:OD1	4:E:31:THR:N	2.42	0.52
5:F:302:LEU:HB2	7:O:31:DT:C2	2.44	0.52
6:J:34:THR:HG21	6:J:38:GLU:HB2	1.91	0.52
6:J:54:TRP:O	6:J:62:GLY:N	2.39	0.52
1:A:49:ALA:HA	1:A:142:ARG:HA	1.92	0.52
1:B:119:HIS:O	1:B:200:ASN:ND2	2.40	0.52
2:C:134:PHE:HD1	2:C:153:PHE:HA	1.74	0.52
2:C:243:TRP:HE3	2:C:247:GLN:HB3	1.75	0.52
2:C:1106:ILE:HG21	3:D:454:PRO:HB2	1.92	0.52
3:D:70:PHE:HB3	3:D:73:ILE:HD11	1.92	0.52
3:D:91:ARG:O	3:D:321:PRO:HG3	2.10	0.52
3:D:126:GLU:HG3	3:D:130:TYR:CD2	2.45	0.52
3:D:592:VAL:HB	3:D:595:ASP:OD2	2.09	0.52
3:D:596:THR:HB	3:D:628:SER:N	2.23	0.52
3:D:674:ASN:ND2	3:D:684:VAL:H	2.07	0.52
3:D:1152:LYS:HA	3:D:1155:GLU:CD	2.34	0.52
6:J:107:SER:HA	6:J:111:GLY:O	2.08	0.52
7:O:24:DG:H1'	7:O:25:DC:C5'	2.39	0.52
1:A:32:TYR:HB3	2:C:1016:GLY:O	2.09	0.52
1:B:1:MET:HB2	1:B:232:ILE:HG23	1.92	0.52
1:B:52:THR:O	1:B:164:VAL:HG22	2.08	0.52
2:C:38:ARG:CD	2:C:973:SER:HB3	2.38	0.52
2:C:192:ASP:HB2	2:C:199:LEU:CD1	2.31	0.52
2:C:221:THR:HA	2:C:261:THR:HG22	1.91	0.52
2:C:272:GLU:HA	2:C:275:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1081:ALA:HB1	3:D:554:GLU:HB3	1.92	0.52
3:D:192:ASP:O	3:D:196:LYS:HG3	2.10	0.52
3:D:342:ASP:O	3:D:346:ARG:HG3	2.10	0.52
3:D:812:THR:O	3:D:816:THR:HG23	2.10	0.52
3:D:1085:ARG:HD3	3:D:1113:GLU:OE2	2.08	0.52
3:D:1270:ILE:HG23	4:E:107:THR:O	2.09	0.52
5:F:445:VAL:HG12	5:F:447:ALA:H	1.75	0.52
1:A:22:VAL:HG23	1:A:192:LEU:O	2.09	0.52
2:C:211:TRP:O	2:C:227:ASP:N	2.43	0.52
2:C:277:ILE:HD13	2:C:280:LYS:HZ1	1.73	0.52
2:C:313:ARG:CD	2:C:331:SER:HA	2.37	0.52
2:C:727:GLU:H	3:D:725:THR:HG22	1.74	0.52
2:C:840:PRO:HG2	2:C:843:GLU:OE2	2.08	0.52
3:D:138:SER:N	3:D:253:THR:OG1	2.43	0.52
4:E:59:LYS:O	4:E:63:GLN:HG3	2.09	0.52
6:J:23:ASP:C	6:J:24:LEU:HD22	2.35	0.52
7:O:16:DT:H2''	7:O:17:DA:O5'	2.09	0.52
8:P:11:DA:H1'	8:P:12:DA:H5'	1.90	0.52
1:A:18:ARG:HB2	1:A:196:VAL:O	2.09	0.52
1:A:226:ASN:ND2	1:B:205:ARG:HG3	2.23	0.52
2:C:195:THR:HG22	2:C:197:LYS:HG3	1.92	0.52
2:C:563:ARG:HB3	2:C:567:GLU:N	2.24	0.52
2:C:707:CYS:HB3	2:C:715:LEU:HD23	1.92	0.52
3:D:35:ASN:ND2	3:D:38:THR:H	2.07	0.52
3:D:181:LEU:HD21	3:D:198:ARG:HG2	1.91	0.52
3:D:354:LEU:HB2	3:D:370:GLU:CG	2.37	0.52
3:D:866:ARG:HH12	3:D:1011:THR:HG22	1.74	0.52
3:D:913:ASP:OD1	3:D:914:PRO:HD2	2.10	0.52
3:D:913:ASP:OD2	3:D:915:TYR:N	2.43	0.52
3:D:1047:ALA:HB3	3:D:1109:GLN:N	2.24	0.52
3:D:1052:ARG:HB2	3:D:1102:GLY:C	2.35	0.52
3:D:1278:ALA:HB1	4:E:103:LEU:HD23	1.92	0.52
5:F:447:ALA:O	5:F:450:ALA:N	2.42	0.52
6:J:102:LEU:HD21	6:J:106:ARG:NH2	2.25	0.52
1:A:177:LYS:O	1:A:192:LEU:HD12	2.10	0.52
1:B:85:VAL:HA	1:B:117:THR:O	2.10	0.52
2:C:248:ILE:O	2:C:252:PHE:N	2.40	0.52
2:C:303:GLU:HB3	2:C:332:THR:CB	2.40	0.52
2:C:320:LEU:CB	2:C:322:LEU:HG	2.39	0.52
2:C:322:LEU:CD2	2:C:357:VAL:HG11	2.40	0.52
2:C:380:THR:O	2:C:383:GLU:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:146:ASN:OD1	3:D:147:GLU:N	2.43	0.52
3:D:446:LEU:O	3:D:449:LEU:HB3	2.09	0.52
3:D:888:GLU:O	3:D:976:ALA:N	2.36	0.52
3:D:928:ASP:HA	3:D:939:GLU:HA	1.91	0.52
5:F:479:PHE:HD2	5:F:481:LEU:HD11	1.74	0.52
1:A:66:VAL:HB	1:A:69:VAL:CG2	2.39	0.52
1:A:66:VAL:HB	1:A:69:VAL:HG21	1.90	0.52
1:B:78:LEU:HA	1:B:81:LYS:HG3	1.92	0.52
2:C:111:ARG:HG3	2:C:134:PHE:HB2	1.92	0.52
2:C:222:VAL:HG23	2:C:233:PRO:HA	1.92	0.52
2:C:344:TYR:CZ	2:C:365:VAL:HA	2.44	0.52
2:C:868:LEU:HD22	2:C:869:VAL:H	1.75	0.52
2:C:883:ASP:OD1	2:C:1037:VAL:N	2.43	0.52
3:D:72:GLY:O	6:J:43:PRO:HB2	2.10	0.52
3:D:232:LYS:O	3:D:234:LEU:HD12	2.09	0.52
3:D:566:LEU:HD23	3:D:573:PRO:CA	2.40	0.52
3:D:901:LEU:HD12	3:D:957:ILE:O	2.10	0.52
3:D:970:THR:OG1	3:D:973:GLY:O	2.27	0.52
3:D:1055:LEU:HA	3:D:1064:ILE:CG2	2.30	0.52
5:F:400:ALA:HB2	5:F:407:PRO:HA	1.92	0.52
1:A:23:ILE:O	1:A:26:LEU:HD11	2.10	0.51
1:B:30:PHE:HA	1:B:33:THR:HG23	1.91	0.51
2:C:719:LEU:O	2:C:1027:TYR:HA	2.10	0.51
2:C:747:LEU:CB	2:C:879:ILE:HB	2.40	0.51
2:C:759:ALA:HB2	2:C:867:GLU:HB3	1.92	0.51
3:D:135:VAL:HG23	3:D:234:LEU:HA	1.92	0.51
3:D:380:ALA:O	3:D:384:ASN:HB2	2.10	0.51
3:D:908:GLY:O	3:D:909:THR:HG23	2.10	0.51
3:D:1208:MET:SD	3:D:1213:ALA:HA	2.50	0.51
5:F:299:ASN:HA	7:O:31:DT:N3	2.24	0.51
7:O:28:DT:H5'	7:O:28:DT:H6	1.74	0.51
1:A:49:ALA:CB	1:A:142:ARG:HA	2.41	0.51
1:B:56:ILE:HG12	1:B:136:VAL:CG2	2.40	0.51
1:B:86:SER:O	1:B:117:THR:HG22	2.11	0.51
2:C:89:VAL:O	2:C:93:LEU:HD23	2.09	0.51
2:C:624:PRO:HB3	2:C:1029:TYR:CD1	2.45	0.51
2:C:819:ARG:NH2	5:F:479:PHE:O	2.43	0.51
2:C:1092:LYS:NZ	3:D:545:LEU:O	2.43	0.51
3:D:135:VAL:HG23	3:D:233:GLN:C	2.35	0.51
3:D:285:LYS:N	3:D:289:LYS:HB2	2.24	0.51
3:D:322:PRO:HB3	3:D:325:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:478:ARG:HB3	3:D:480:ARG:NE	2.25	0.51
3:D:567:SER:O	3:D:571:GLY:N	2.36	0.51
3:D:626:VAL:HG12	3:D:627:LEU:HG	1.92	0.51
4:E:92:LEU:O	4:E:96:LEU:HG	2.09	0.51
5:F:342:LYS:CB	7:O:29:DA:H3'	2.40	0.51
1:B:75:GLU:O	1:B:78:LEU:HG	2.11	0.51
2:C:347:ARG:CB	2:C:352:GLN:HG3	2.23	0.51
2:C:1072:GLU:HG2	3:D:509:ILE:CD1	2.41	0.51
3:D:246:ASP:OD1	3:D:247:ARG:N	2.43	0.51
3:D:416:ASN:OD1	3:D:417:LEU:N	2.39	0.51
3:D:736:VAL:HG12	3:D:841:ARG:HD2	1.92	0.51
3:D:1182:ASP:HB3	3:D:1185:GLU:CB	2.41	0.51
5:F:415:GLN:C	5:F:418:ARG:HD3	2.30	0.51
1:A:14:LEU:HD21	1:A:20:GLN:HG3	1.92	0.51
1:A:177:LYS:HE3	1:A:193:ILE:CD1	2.40	0.51
2:C:167:ILE:HA	2:C:171:THR:O	2.10	0.51
2:C:208:ARG:NH1	2:C:307:ASP:OD2	2.43	0.51
2:C:355:MET:O	2:C:362:GLU:HA	2.10	0.51
2:C:793:GLY:O	2:C:846:LYS:HD2	2.10	0.51
2:C:1007:LYS:CE	2:C:1022:PRO:HG2	2.40	0.51
2:C:1020:PRO:HG2	2:C:1021:TYR:CD2	2.46	0.51
3:D:444:PRO:HG2	3:D:447:MET:CB	2.40	0.51
3:D:459:ARG:HH11	3:D:462:ASP:HB2	1.76	0.51
3:D:683:PHE:CE2	3:D:685:ASN:HB2	2.44	0.51
3:D:712:THR:O	3:D:716:LEU:HG	2.10	0.51
3:D:1065:THR:CG2	3:D:1074:GLU:HB3	2.39	0.51
3:D:1180:LEU:HD22	3:D:1206:VAL:HG21	1.92	0.51
3:D:1272:VAL:HG21	4:E:56:TYR:HA	1.92	0.51
4:E:83:VAL:HG12	4:E:98:GLU:HG3	1.93	0.51
5:F:278:ARG:O	5:F:282:MET:HG2	2.11	0.51
5:F:499:THR:HG23	7:O:3:DT:P	2.50	0.51
5:F:503:ILE:HD13	5:F:506:ILE:CD1	2.40	0.51
6:J:20:ARG:HH11	6:J:23:ASP:HB3	1.75	0.51
6:J:101:ARG:CD	6:J:104:LEU:HD13	2.35	0.51
1:A:26:LEU:CB	1:A:190:ASP:HB2	2.39	0.51
1:A:71:GLU:OE2	1:A:127:THR:HG22	2.10	0.51
1:A:149:ALA:HB1	1:A:163:PRO:HB2	1.93	0.51
1:A:205:ARG:HD3	1:A:206:ASP:N	2.25	0.51
1:B:85:VAL:HB	1:B:118:VAL:HA	1.93	0.51
2:C:909:ASP:OD2	2:C:1001:LEU:HD11	2.11	0.51
3:D:88:ARG:O	3:D:321:PRO:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:373:MET:HE3	5:F:318:LEU:CB	2.40	0.51
3:D:532:PHE:CE2	3:D:541:MET:HE1	2.45	0.51
3:D:768:ASP:HA	3:D:771:ASN:ND2	2.22	0.51
3:D:929:ALA:C	3:D:936:VAL:HG13	2.35	0.51
3:D:1065:THR:HG23	3:D:1075:VAL:C	2.36	0.51
5:F:241:LEU:HD22	5:F:245:GLU:CD	2.35	0.51
5:F:342:LYS:HG2	7:O:30:DC:OP2	2.10	0.51
6:J:64:LEU:HD23	6:J:65:ILE:N	2.26	0.51
1:A:54:ILE:HB	1:A:137:GLU:O	2.11	0.51
2:C:224:VAL:HB	2:C:232:GLN:CB	2.40	0.51
2:C:657:TYR:HA	2:C:670:TYR:O	2.10	0.51
2:C:1008:ALA:H	2:C:1023:VAL:H	1.57	0.51
2:C:1134:ASN:N	3:D:13:GLY:O	2.43	0.51
3:D:614:SER:OG	3:D:617:GLU:N	2.34	0.51
3:D:824:VAL:HG11	3:D:851:ILE:HG22	1.92	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:HB3	1.92	0.51
4:E:87:LEU:HD13	4:E:88:GLN:HB2	1.92	0.51
5:F:262:LEU:O	5:F:265:GLU:HB2	2.11	0.51
1:A:149:ALA:HB1	1:A:163:PRO:CB	2.41	0.51
1:B:48:GLY:O	1:B:143:GLY:N	2.33	0.51
2:C:132:PRO:HB3	2:C:153:PHE:CE1	2.45	0.51
2:C:226:ILE:O	2:C:229:LYS:HB2	2.11	0.51
2:C:484:CYS:CB	2:C:588:SER:HB3	2.41	0.51
2:C:488:THR:CG2	2:C:606:LEU:HD11	2.41	0.51
2:C:754:GLU:HA	2:C:871:VAL:O	2.11	0.51
2:C:1109:GLY:CA	3:D:458:LYS:HE3	2.41	0.51
3:D:31:PRO:HB3	3:D:348:ILE:HB	1.93	0.51
3:D:370:GLU:OE1	5:F:322:GLN:HG3	2.10	0.51
3:D:383:ASP:OD2	3:D:386:ARG:NH2	2.44	0.51
3:D:882:GLN:HG3	3:D:883:ASP:CG	2.35	0.51
3:D:1052:ARG:CA	3:D:1104:HIS:HA	2.36	0.51
3:D:1130:VAL:O	3:D:1134:LEU:HG	2.11	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:CB	2.40	0.51
3:D:1269:ASN:CB	4:E:109:GLY:HA3	2.40	0.51
5:F:286:ARG:O	5:F:290:ARG:HG3	2.10	0.51
5:F:522:VAL:HG23	5:F:523:LEU:CD2	2.40	0.51
6:J:64:LEU:CD2	6:J:66:GLU:H	2.24	0.51
1:A:5:GLN:HE21	1:A:25:PRO:HG3	1.74	0.51
1:A:27:GLU:OE1	1:A:28:PRO:HD2	2.11	0.51
1:A:80:LEU:HD21	1:A:125:ILE:HG23	1.93	0.51
1:A:175:THR:HB	2:C:910:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:PRO:HA	1:B:190:ASP:OD2	2.10	0.51
1:B:55:ARG:HB3	1:B:161:ARG:HA	1.93	0.51
2:C:140:ILE:CG1	2:C:147:ILE:HA	2.40	0.51
2:C:185:VAL:HG12	2:C:204:VAL:CG2	2.40	0.51
2:C:224:VAL:HB	2:C:232:GLN:C	2.36	0.51
2:C:241:LEU:HB3	2:C:243:TRP:HD1	1.74	0.51
2:C:357:VAL:CG2	2:C:358:PRO:HD2	2.41	0.51
2:C:641:VAL:CG2	2:C:708:THR:HG21	2.41	0.51
2:C:1137:VAL:HG21	3:D:7:PHE:CD1	2.38	0.51
3:D:317:VAL:HG12	3:D:318:PRO:O	2.10	0.51
3:D:334:ARG:HH12	5:F:419:GLU:C	2.19	0.51
3:D:668:LEU:O	3:D:671:VAL:HB	2.10	0.51
3:D:877:LEU:O	3:D:880:VAL:HB	2.10	0.51
5:F:283:TRP:HA	5:F:286:ARG:HE	1.76	0.51
5:F:310:TYR:HD2	5:F:355:ILE:HG21	1.75	0.51
1:A:2:LEU:HD23	1:B:143:GLY:HA2	1.93	0.51
1:A:22:VAL:HA	1:A:192:LEU:O	2.11	0.51
2:C:285:GLU:CD	2:C:286:PRO:HD2	2.35	0.51
2:C:400:VAL:O	2:C:404:MET:N	2.42	0.51
2:C:587:VAL:HG23	2:C:591:THR:HG22	1.93	0.51
2:C:633:ARG:HH11	2:C:636:ILE:HG13	1.75	0.51
2:C:633:ARG:CA	2:C:636:ILE:HG12	2.41	0.51
2:C:854:SER:HA	2:C:867:GLU:HA	1.93	0.51
3:D:545:LEU:HD12	3:D:546:PRO:CD	2.32	0.51
3:D:820:MET:HG3	3:D:837:LYS:HA	1.93	0.51
3:D:866:ARG:NE	3:D:1008:THR:O	2.43	0.51
3:D:912:ARG:HG3	3:D:916:ILE:HD12	1.93	0.51
3:D:1172:SER:OG	3:D:1199:GLU:HG3	2.11	0.51
3:D:1222:SER:O	3:D:1225:SER:OG	2.28	0.51
8:P:8:DT:H2'	8:P:9:DT:H72	1.93	0.51
1:B:134:LEU:HD11	1:B:136:VAL:CG2	2.40	0.51
1:B:170:PRO:HA	1:B:199:LYS:HE3	1.92	0.51
2:C:33:PRO:HB2	2:C:700:GLN:CD	2.36	0.51
2:C:354:THR:N	2:C:365:VAL:HG23	2.26	0.51
2:C:356:THR:HA	2:C:362:GLU:HA	1.93	0.51
2:C:454:ARG:O	2:C:455:LEU:HD23	2.11	0.51
3:D:222:ILE:HD11	3:D:244:LEU:CB	2.41	0.51
3:D:372:ARG:O	3:D:376:GLU:HG3	2.11	0.51
3:D:497:LEU:O	3:D:543:VAL:HA	2.11	0.51
3:D:566:LEU:HB3	3:D:571:GLY:O	2.11	0.51
4:E:38:PRO:CG	4:E:43:LEU:HD21	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:347:ALA:O	5:F:351:ILE:HG13	2.10	0.51
1:A:82:SER:O	1:A:123:MET:HE1	2.11	0.50
1:B:95:MET:HE3	1:B:138:LEU:C	2.36	0.50
2:C:61:PHE:CE2	2:C:65:ILE:HD11	2.46	0.50
2:C:113:ASP:O	2:C:131:ALA:HB1	2.10	0.50
2:C:275:LEU:HD12	2:C:276:ASP:N	2.27	0.50
2:C:484:CYS:SG	2:C:588:SER:N	2.84	0.50
2:C:583:PRO:HG2	2:C:584:ARG:NE	2.26	0.50
2:C:1011:PHE:CE1	2:C:1018:PRO:HB3	2.42	0.50
2:C:1100:VAL:HG12	5:F:447:ALA:CB	2.41	0.50
2:C:1131:LEU:HD21	3:D:402:LEU:HB3	1.92	0.50
3:D:177:LEU:HA	3:D:180:ASP:OD2	2.11	0.50
3:D:190:LYS:HZ3	3:D:192:ASP:HB3	1.75	0.50
3:D:222:ILE:HD11	3:D:244:LEU:HA	1.93	0.50
3:D:222:ILE:CG1	3:D:244:LEU:HD12	2.38	0.50
3:D:262:GLN:HG2	3:D:266:GLU:OE2	2.11	0.50
3:D:813:GLN:O	3:D:816:THR:OG1	2.27	0.50
3:D:896:GLY:O	3:D:961:LYS:HG3	2.11	0.50
3:D:1061:PHE:HE2	3:D:1063:LYS:HE2	1.75	0.50
3:D:1085:ARG:HB2	3:D:1113:GLU:OE2	2.11	0.50
3:D:1231:ARG:HA	3:D:1234:THR:HG22	1.92	0.50
5:F:250:ALA:O	5:F:254:GLU:HG3	2.10	0.50
6:J:40:PHE:CZ	6:J:58:ASN:HB2	2.46	0.50
1:B:3:ILE:CD1	1:B:234:ILE:HG12	2.41	0.50
1:B:41:THR:O	1:B:45:SER:N	2.44	0.50
2:C:548:ILE:HA	2:C:554:PHE:HD1	1.75	0.50
2:C:571:VAL:HG22	2:C:572:PRO:O	2.11	0.50
2:C:612:GLN:HA	2:C:1031:MET:HE1	1.93	0.50
2:C:756:GLU:CG	2:C:868:LEU:HD21	2.41	0.50
3:D:148:LEU:O	3:D:148:LEU:HD13	2.11	0.50
3:D:212:ALA:HA	3:D:215:GLU:CG	2.42	0.50
3:D:497:LEU:C	3:D:498:LEU:HD12	2.36	0.50
3:D:940:ARG:HH11	3:D:963:ARG:HH21	1.58	0.50
4:E:47:VAL:HG11	4:E:53:LEU:HD23	1.93	0.50
5:F:410:VAL:O	5:F:414:GLN:HG3	2.11	0.50
6:J:54:TRP:N	6:J:62:GLY:O	2.44	0.50
1:A:117:THR:HG23	1:A:119:HIS:CE1	2.46	0.50
1:A:215:LEU:HD12	1:A:219:PHE:CE2	2.46	0.50
1:B:223:ARG:HE	1:B:227:VAL:HG13	1.76	0.50
2:C:128:THR:CB	2:C:169:ASN:H	2.24	0.50
2:C:202:VAL:CG1	2:C:214:PHE:HB2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:224:VAL:HG21	2:C:234:VAL:N	2.26	0.50
2:C:732:GLU:OE2	3:D:535:ASP:HA	2.11	0.50
2:C:1137:VAL:HA	3:D:10:LEU:HD12	1.93	0.50
3:D:58:TRP:CA	3:D:82:VAL:HG23	2.41	0.50
3:D:136:ILE:CG1	3:D:229:LEU:HD11	2.41	0.50
3:D:412:ARG:N	3:D:1227:GLN:HG3	2.26	0.50
3:D:1273:GLN:O	4:E:105:GLU:N	2.43	0.50
5:F:387:LEU:O	5:F:391:GLY:N	2.43	0.50
1:A:137:GLU:C	1:A:138:LEU:HD12	2.36	0.50
1:A:172:LEU:HB3	1:A:197:GLU:HG2	1.93	0.50
1:B:104:GLU:CD	1:B:127:THR:HG22	2.36	0.50
2:C:200:HIS:CG	2:C:349:HIS:HB2	2.46	0.50
2:C:230:ARG:HH21	5:F:212:LEU:HA	1.76	0.50
2:C:475:VAL:HG23	3:D:854:HIS:ND1	2.27	0.50
2:C:1066:GLN:HG3	3:D:427:ARG:NH2	2.26	0.50
3:D:181:LEU:HD21	3:D:198:ARG:CG	2.41	0.50
3:D:748:HIS:CE1	3:D:752:ARG:HD2	2.46	0.50
3:D:1274:PRO:HG2	4:E:79:VAL:HG11	1.94	0.50
5:F:511:MET:HE3	5:F:515:ARG:NH2	2.26	0.50
1:A:95:MET:CG	1:A:138:LEU:HD22	2.42	0.50
1:B:39:ARG:HD2	1:B:176:TYR:CE1	2.47	0.50
1:B:77:ILE:O	1:B:81:LYS:HG3	2.11	0.50
2:C:861:LEU:HD23	2:C:865:VAL:CG1	2.41	0.50
2:C:904:MET:HG3	2:C:913:VAL:HG22	1.92	0.50
3:D:34:ILE:HG13	3:D:40:LYS:O	2.12	0.50
3:D:75:CYS:SG	3:D:77:ARG:HB2	2.52	0.50
3:D:353:ARG:O	3:D:357:LEU:HG	2.10	0.50
3:D:434:PRO:O	3:D:717:LYS:NZ	2.39	0.50
3:D:566:LEU:HD23	3:D:573:PRO:HA	1.92	0.50
7:O:1:DG:H2''	7:O:2:DC:O5'	2.11	0.50
1:B:21:PHE:HB2	1:B:194:LEU:CB	2.30	0.50
1:B:32:TYR:CZ	1:B:178:VAL:HG21	2.46	0.50
1:B:55:ARG:HD3	1:B:137:GLU:OE1	2.12	0.50
2:C:277:ILE:HA	2:C:280:LYS:NZ	2.27	0.50
2:C:413:THR:HG23	2:C:416:THR:H	1.76	0.50
2:C:731:TYR:H	2:C:734:ALA:HB3	1.75	0.50
2:C:736:ILE:CD1	2:C:916:ILE:HB	2.42	0.50
2:C:903:ASP:OD1	2:C:903:ASP:N	2.43	0.50
3:D:103:HIS:HB3	3:D:106:TYR:CD2	2.45	0.50
3:D:322:PRO:HA	3:D:325:ARG:CG	2.42	0.50
3:D:1181:ILE:HG13	3:D:1182:ASP:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:513:LYS:HD2	5:F:516:HIS:CE1	2.46	0.50
6:J:97:LEU:O	6:J:100:GLU:HB3	2.12	0.50
7:O:19:DA:H2''	7:O:20:DT:O5'	2.12	0.50
2:C:113:ASP:OD2	2:C:132:PRO:HB2	2.11	0.50
2:C:188:ASP:O	2:C:201:SER:N	2.45	0.50
2:C:347:ARG:CD	2:C:355:MET:HG3	2.41	0.50
2:C:540:VAL:CG2	2:C:576:VAL:HA	2.42	0.50
2:C:762:THR:HG23	2:C:764:LEU:N	2.27	0.50
2:C:1055:GLN:HE22	3:D:420:LYS:HD3	1.77	0.50
3:D:58:TRP:CE2	3:D:68:VAL:HG13	2.47	0.50
3:D:498:LEU:O	3:D:509:ILE:HG12	2.12	0.50
3:D:922:ALA:HB1	3:D:981:ARG:HB3	1.92	0.50
3:D:981:ARG:HG2	3:D:982:SER:O	2.12	0.50
5:F:381:ARG:O	5:F:385:GLU:HG3	2.11	0.50
5:F:408:GLU:O	5:F:412:GLU:HG3	2.12	0.50
1:A:88:GLU:HG2	1:A:115:GLY:O	2.11	0.50
1:B:60:LEU:HD12	1:B:61:HIS:HD2	1.77	0.50
2:C:102:SER:HB2	2:C:143:ASN:ND2	2.27	0.50
2:C:426:ALA:HA	2:C:429:GLU:CG	2.42	0.50
2:C:507:ASN:CB	2:C:511:PHE:HB2	2.41	0.50
2:C:822:ARG:CD	2:C:827:GLU:HB2	2.41	0.50
3:D:334:ARG:NH1	5:F:418:ARG:CA	2.74	0.50
3:D:406:LEU:CB	3:D:409:LYS:HB2	2.38	0.50
3:D:420:LYS:NZ	11:D:1404:C0L:C16	2.74	0.50
3:D:646:ILE:O	3:D:649:GLU:HB3	2.12	0.50
3:D:917:GLU:HG2	3:D:921:TYR:CE2	2.46	0.50
5:F:348:THR:CA	5:F:351:ILE:HD12	2.37	0.50
8:P:11:DA:H1'	8:P:12:DA:C5'	2.41	0.50
1:A:223:ARG:HD2	1:B:213:LYS:HA	1.94	0.50
1:B:74:THR:HA	1:B:77:ILE:CD1	2.29	0.50
2:C:38:ARG:HB2	2:C:971:ILE:HD12	1.94	0.50
2:C:240:ALA:HA	2:C:274:LEU:HD22	1.94	0.50
2:C:704:ASP:OD2	2:C:710:ASP:N	2.45	0.50
2:C:1103:TYR:HE2	5:F:448:VAL:HG23	1.75	0.50
2:C:1138:LEU:HA	3:D:-1:GLY:N	2.26	0.50
3:D:743:LYS:HA	3:D:746:LEU:CD1	2.30	0.50
3:D:1061:PHE:HA	3:D:1082:LYS:N	2.27	0.50
6:J:31:ARG:HG2	6:J:41:GLU:CG	2.40	0.50
6:J:34:THR:HG21	6:J:40:PHE:HE2	1.77	0.50
7:O:3:DT:H1'	7:O:4:DT:H5'	1.93	0.50
7:O:6:DA:H1'	7:O:7:DC:C5'	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:27:DA:P	7:O:27:DA:H2'	2.51	0.50
8:P:5:DC:H1'	8:P:6:DA:O5'	2.12	0.50
8:P:16:DT:H2''	8:P:17:DT:H71	1.94	0.50
1:A:97:LEU:C	1:A:98:ARG:HD3	2.37	0.49
1:A:186:ARG:HH11	1:B:148:PRO:HB2	1.77	0.49
1:B:1:MET:N	1:B:232:ILE:HA	2.27	0.49
1:B:40:ARG:NH1	3:D:623:ASP:HB3	2.20	0.49
1:B:107:ALA:HB3	1:B:121:PRO:O	2.11	0.49
1:B:215:LEU:O	1:B:218:LEU:HB3	2.12	0.49
2:C:326:GLU:OE1	2:C:326:GLU:N	2.45	0.49
2:C:347:ARG:O	2:C:350:GLU:HB3	2.11	0.49
2:C:523:VAL:HG13	2:C:552:GLY:HA3	1.93	0.49
2:C:540:VAL:O	2:C:576:VAL:HG13	2.12	0.49
2:C:611:MET:O	2:C:614:GLN:N	2.40	0.49
2:C:797:ARG:O	2:C:839:VAL:HG11	2.11	0.49
2:C:1136:GLU:O	3:D:10:LEU:HD12	2.13	0.49
3:D:550:GLU:OE2	4:E:62:ARG:HD2	2.12	0.49
3:D:595:ASP:N	3:D:598:GLU:OE2	2.45	0.49
3:D:930:VAL:HG12	3:D:936:VAL:CG2	2.38	0.49
3:D:1090:LYS:HG3	3:D:1097:ARG:HD3	1.93	0.49
3:D:1190:ASN:CA	3:D:1193:VAL:HG12	2.40	0.49
3:D:1276:GLU:HG2	3:D:1279:ARG:NE	2.26	0.49
5:F:274:PRO:HG2	5:F:277:GLN:CG	2.41	0.49
5:F:297:GLU:HA	5:F:300:LEU:CD1	2.42	0.49
5:F:336:ASP:N	7:O:27:DA:N1	2.46	0.49
5:F:457:GLN:O	5:F:460:LEU:HB3	2.11	0.49
5:F:510:THR:O	5:F:514:LEU:HD23	2.12	0.49
7:O:25:DC:C2'	7:O:26:DT:H71	2.42	0.49
8:P:23:DA:H2''	8:P:24:DA:O5'	2.12	0.49
1:A:74:THR:HA	1:A:77:ILE:HG12	1.93	0.49
2:C:347:ARG:HA	2:C:350:GLU:CB	2.41	0.49
2:C:354:THR:HA	2:C:363:VAL:O	2.12	0.49
3:D:781:ALA:O	3:D:785:VAL:HG23	2.12	0.49
5:F:300:LEU:O	5:F:303:VAL:HB	2.12	0.49
8:P:24:DA:H2''	8:P:25:DG:H5'	1.94	0.49
2:C:353:THR:O	2:C:365:VAL:N	2.38	0.49
2:C:662:HIS:HB2	2:C:666:THR:O	2.12	0.49
2:C:1007:LYS:HB3	2:C:1023:VAL:N	2.26	0.49
3:D:404:ASP:O	3:D:409:LYS:HE2	2.12	0.49
3:D:441:CYS:SG	3:D:514:PRO:HA	2.52	0.49
3:D:498:LEU:O	3:D:509:ILE:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1044:ALA:HB1	3:D:1112:MET:HB2	1.93	0.49
3:D:1049:VAL:CA	3:D:1107:VAL:HA	2.42	0.49
1:A:165:ASP:OD2	2:C:878:LYS:NZ	2.28	0.49
1:B:26:LEU:H	1:B:189:PHE:HB3	1.76	0.49
1:B:147:VAL:HG22	1:B:148:PRO:O	2.12	0.49
2:C:38:ARG:HB2	2:C:971:ILE:CD1	2.42	0.49
2:C:388:GLN:HA	2:C:391:VAL:HG12	1.93	0.49
2:C:1133:LEU:C	3:D:15:ALA:HB2	2.36	0.49
3:D:8:ASP:C	3:D:1245:LEU:HD12	2.37	0.49
3:D:106:TYR:CD1	3:D:312:MET:HE3	2.48	0.49
3:D:494:HIS:HB2	4:E:90:LYS:NZ	2.28	0.49
3:D:564:ASN:O	3:D:565:ILE:HD13	2.13	0.49
3:D:589:THR:HG21	3:D:688:MET:CB	2.42	0.49
3:D:683:PHE:HE2	3:D:685:ASN:HB2	1.76	0.49
3:D:742:LYS:HG2	3:D:746:LEU:CD1	2.42	0.49
3:D:759:GLN:O	3:D:762:ARG:HB2	2.13	0.49
3:D:815:ARG:HH12	3:D:821:LYS:C	2.20	0.49
3:D:1254:ILE:HD11	3:D:1256:LYS:HB3	1.93	0.49
5:F:330:ARG:HA	5:F:333:GLU:OE1	2.11	0.49
2:C:252:PHE:HB3	2:C:255:SER:OG	2.13	0.49
2:C:529:VAL:HG12	2:C:531:LEU:CG	2.41	0.49
2:C:633:ARG:HA	2:C:636:ILE:CG1	2.39	0.49
2:C:721:VAL:HG23	2:C:915:ILE:HG13	1.95	0.49
2:C:737:LEU:HD23	2:C:915:ILE:CG2	2.42	0.49
3:D:134:TYR:CE1	3:D:256:MET:HB2	2.47	0.49
3:D:589:THR:HB	3:D:687:GLN:HA	1.95	0.49
3:D:1249:LYS:CD	11:D:1404:C0L:C32	2.91	0.49
4:E:38:PRO:HG2	4:E:43:LEU:CD1	2.39	0.49
4:E:50:LYS:O	4:E:53:LEU:HB3	2.12	0.49
1:A:43:LEU:CD2	2:C:901:VAL:HG13	2.41	0.49
1:A:87:SER:HB3	1:A:142:ARG:HD3	1.95	0.49
2:C:116:LYS:HZ3	2:C:130:ALA:HB3	1.77	0.49
2:C:180:VAL:O	2:C:377:ARG:N	2.45	0.49
2:C:187:PHE:H	2:C:368:ASP:HB2	1.77	0.49
2:C:205:ILE:O	2:C:205:ILE:HG13	2.13	0.49
2:C:231:ARG:HG3	5:F:211:ALA:HB1	1.94	0.49
2:C:571:VAL:HG23	2:C:575:GLU:OE1	2.11	0.49
2:C:737:LEU:HD12	2:C:895:ILE:CG2	2.43	0.49
2:C:755:HIS:O	2:C:870:ARG:HA	2.13	0.49
3:D:184:LEU:CB	3:D:194:ARG:HG2	2.42	0.49
3:D:373:MET:HE3	5:F:318:LEU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:500:ARG:HD3	3:D:534:ALA:HB2	1.92	0.49
3:D:1181:ILE:HB	3:D:1185:GLU:CD	2.38	0.49
3:D:1250:GLU:O	3:D:1254:ILE:HG12	2.12	0.49
3:D:1251:ASN:HD22	3:D:1259:PRO:CD	2.23	0.49
6:J:30:ALA:O	6:J:41:GLU:HA	2.12	0.49
1:A:167:ILE:O	1:A:167:ILE:HG13	2.13	0.49
1:B:159:ILE:HD12	1:B:160:GLY:N	2.28	0.49
1:B:226:ASN:ND2	1:B:228:GLU:HB2	2.28	0.49
2:C:178:GLN:O	2:C:378:LEU:HD12	2.13	0.49
2:C:241:LEU:HD21	2:C:335:GLU:CB	2.42	0.49
2:C:540:VAL:HG13	2:C:577:ASP:N	2.26	0.49
2:C:542:ALA:HA	2:C:561:VAL:HA	1.93	0.49
2:C:994:PRO:HA	2:C:999:ASP:O	2.12	0.49
2:C:1017:GLU:OE1	2:C:1018:PRO:HD2	2.12	0.49
2:C:1049:TYR:CD2	2:C:1056:PRO:HG3	2.46	0.49
3:D:320:ILE:HG13	3:D:321:PRO:HD2	1.95	0.49
3:D:500:ARG:HB2	3:D:541:MET:CG	2.41	0.49
3:D:638:THR:HG22	3:D:661:ALA:CB	2.43	0.49
3:D:1051:GLY:O	3:D:1105:VAL:HG22	2.13	0.49
3:D:1160:GLN:HA	3:D:1163:ARG:CG	2.43	0.49
3:D:1168:ILE:HG13	3:D:1202:ALA:HB1	1.93	0.49
3:D:1184:ALA:HA	3:D:1187:GLU:OE1	2.12	0.49
3:D:1265:ASN:HB3	3:D:1269:ASN:ND2	2.27	0.49
4:E:56:TYR:HE2	4:E:99:ILE:HG12	1.77	0.49
6:J:101:ARG:HA	6:J:104:LEU:HB3	1.95	0.49
1:B:3:ILE:O	1:B:4:SER:OG	2.26	0.49
1:B:54:ILE:HD12	1:B:56:ILE:HD11	1.94	0.49
2:C:189:GLU:O	2:C:189:GLU:HG2	2.13	0.49
2:C:476:HIS:CG	2:C:477:PRO:HD2	2.47	0.49
2:C:1035:HIS:HA	2:C:1040:LYS:NZ	2.28	0.49
3:D:218:ARG:O	3:D:221:ASP:HB3	2.13	0.49
3:D:328:VAL:HG13	3:D:336:ALA:HB3	1.93	0.49
3:D:550:GLU:HG3	4:E:58:ALA:CB	2.42	0.49
3:D:572:ARG:HB2	3:D:573:PRO:HD2	1.93	0.49
3:D:588:LEU:HD13	3:D:588:LEU:O	2.13	0.49
3:D:607:PRO:HG2	3:D:609:THR:CG2	2.42	0.49
3:D:648:ALA:HA	3:D:652:GLY:H	1.77	0.49
3:D:851:ILE:HA	3:D:854:HIS:CD2	2.47	0.49
3:D:1148:SER:O	3:D:1149:ILE:HD13	2.12	0.49
1:B:51:VAL:HA	1:B:140:VAL:HA	1.94	0.49
1:B:213:LYS:HG2	1:B:217:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:507:ASN:HA	2:C:513:GLU:OE2	2.12	0.49
2:C:571:VAL:CG2	2:C:575:GLU:HB2	2.43	0.49
2:C:633:ARG:HA	2:C:636:ILE:CD1	2.42	0.49
2:C:822:ARG:HD2	2:C:827:GLU:O	2.13	0.49
3:D:596:THR:HB	3:D:628:SER:CB	2.42	0.49
3:D:866:ARG:NH1	3:D:1011:THR:HG22	2.27	0.49
3:D:924:THR:HA	3:D:942:GLN:O	2.13	0.49
4:E:40:ILE:HA	4:E:43:LEU:HD12	1.95	0.49
5:F:366:ILE:O	5:F:366:ILE:HG13	2.13	0.49
5:F:479:PHE:C	5:F:486:PRO:HG3	2.37	0.49
6:J:55:LEU:HD21	6:J:59:GLY:HA2	1.95	0.49
8:P:6:DA:P	8:P:6:DA:H2'	2.52	0.49
8:P:17:DT:H1'	8:P:18:DT:C5'	2.42	0.49
1:A:3:ILE:O	1:A:3:ILE:HG13	2.13	0.49
1:A:14:LEU:HB2	1:A:18:ARG:HD3	1.93	0.49
1:A:66:VAL:O	1:A:69:VAL:HG22	2.13	0.49
2:C:42:ALA:HA	2:C:978:ASP:OD2	2.12	0.49
2:C:280:LYS:C	2:C:283:PRO:HD3	2.37	0.49
2:C:338:VAL:O	2:C:341:THR:HB	2.13	0.49
2:C:520:VAL:HG12	2:C:521:ASP:CG	2.38	0.49
2:C:620:ARG:HB3	2:C:717:LYS:NZ	2.27	0.49
2:C:721:VAL:CG2	2:C:915:ILE:HG13	2.43	0.49
3:D:656:TRP:N	3:D:660:ASP:OD2	2.37	0.49
3:D:1027:GLY:O	3:D:1030:ARG:HB3	2.12	0.49
6:J:90:SER:H	6:J:93:GLU:CD	2.21	0.49
2:C:281:LEU:HD23	2:C:295:LEU:HD21	1.93	0.48
2:C:403:ARG:CD	2:C:417:LEU:HA	2.42	0.48
2:C:463:LEU:HD22	2:C:468:ALA:HB2	1.94	0.48
2:C:587:VAL:HG23	2:C:591:THR:CG2	2.42	0.48
3:D:17:ALA:O	3:D:21:ARG:HG2	2.13	0.48
3:D:319:VAL:HG13	3:D:344:TYR:CE1	2.48	0.48
3:D:500:ARG:CB	3:D:541:MET:HG2	2.41	0.48
3:D:709:VAL:O	3:D:713:VAL:HG23	2.12	0.48
3:D:742:LYS:CE	3:D:746:LEU:HD21	2.43	0.48
3:D:800:ILE:HG12	3:D:804:ASP:OD1	2.13	0.48
3:D:1251:ASN:OD1	3:D:1254:ILE:HD11	2.14	0.48
1:A:128:LEU:HD23	1:A:132:GLY:C	2.38	0.48
2:C:289:LYS:HE2	2:C:289:LYS:HA	1.95	0.48
2:C:607:MET:O	2:C:611:MET:HG3	2.13	0.48
3:D:28:VAL:HG21	3:D:46:LEU:HD23	1.96	0.48
3:D:124:ASP:HB3	3:D:234:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:GLU:OE1	3:D:144:ARG:NH2	2.46	0.48
3:D:163:GLU:OE1	3:D:166:ARG:HD3	2.13	0.48
3:D:222:ILE:HD13	3:D:247:ARG:NH2	2.28	0.48
3:D:348:ILE:HG22	3:D:352:ASN:HD21	1.79	0.48
3:D:631:ALA:C	3:D:667:THR:HG22	2.38	0.48
3:D:1169:ASP:HB2	3:D:1202:ALA:H	1.78	0.48
6:J:33:ARG:N	6:J:63:THR:O	2.45	0.48
8:P:16:DT:H2"	8:P:17:DT:OP2	2.12	0.48
1:B:107:ALA:HB3	1:B:121:PRO:C	2.38	0.48
2:C:300:PHE:HA	2:C:306:TYR:CD2	2.48	0.48
2:C:334:THR:HG23	2:C:336:GLU:HB3	1.95	0.48
2:C:347:ARG:HA	2:C:350:GLU:OE1	2.13	0.48
2:C:961:ASP:OD1	2:C:962:GLU:N	2.35	0.48
3:D:181:LEU:HD22	3:D:185:GLU:OE2	2.13	0.48
3:D:923:ARG:C	3:D:944:LEU:HD12	2.39	0.48
3:D:1265:ASN:HB3	3:D:1269:ASN:HD22	1.77	0.48
5:F:297:GLU:HA	5:F:300:LEU:HD12	1.94	0.48
5:F:372:MET:O	5:F:375:VAL:HG22	2.13	0.48
1:A:221:LEU:HD12	1:A:225:LEU:HD22	1.94	0.48
1:B:47:PRO:HG3	1:B:144:ARG:CZ	2.44	0.48
2:C:32:VAL:HB	2:C:35:ALA:HB2	1.95	0.48
2:C:109:ASP:OD2	2:C:111:ARG:HD2	2.13	0.48
2:C:335:GLU:O	2:C:339:VAL:HG13	2.13	0.48
2:C:396:MET:CE	2:C:419:ASN:H	2.26	0.48
2:C:476:HIS:HB3	2:C:479:HIS:HD2	1.77	0.48
2:C:727:GLU:H	3:D:725:THR:CG2	2.26	0.48
2:C:776:ILE:HG13	2:C:780:VAL:HG21	1.96	0.48
3:D:173:ARG:CG	3:D:205:MET:HB2	2.42	0.48
3:D:229:LEU:HD12	3:D:233:GLN:OE1	2.13	0.48
3:D:636:ARG:CB	3:D:663:MET:HG2	2.42	0.48
3:D:651:PHE:HD2	3:D:655:GLY:HA2	1.78	0.48
3:D:885:ILE:HA	3:D:994:ALA:HA	1.94	0.48
3:D:897:ILE:O	3:D:961:LYS:HA	2.13	0.48
3:D:1088:VAL:HG23	3:D:1098:VAL:CA	2.44	0.48
6:J:79:ARG:HD3	6:J:84:MET:SD	2.54	0.48
1:A:61:HIS:HA	1:A:162:ILE:CD1	2.43	0.48
1:A:118:VAL:HG12	1:A:120:ASN:H	1.78	0.48
1:A:172:LEU:HD12	1:A:197:GLU:CD	2.37	0.48
1:A:177:LYS:HG3	1:A:193:ILE:HB	1.96	0.48
1:B:56:ILE:HG23	1:B:136:VAL:HG22	1.96	0.48
2:C:102:SER:C	2:C:142:ASN:HB2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:222:VAL:CB	2:C:234:VAL:HG13	2.42	0.48
2:C:455:LEU:HD11	2:C:500:LEU:CD2	2.36	0.48
2:C:456:SER:HB3	2:C:497:ILE:HG12	1.96	0.48
2:C:505:ARG:HG2	2:C:506:VAL:H	1.77	0.48
2:C:519:VAL:HG23	2:C:523:VAL:C	2.39	0.48
2:C:816:PRO:HB3	5:F:479:PHE:O	2.13	0.48
2:C:846:LYS:O	2:C:873:VAL:HG13	2.12	0.48
3:D:144:ARG:HG3	3:D:226:PHE:CE2	2.49	0.48
3:D:364:GLU:HG3	3:D:368:ASN:OD1	2.13	0.48
6:J:88:ARG:O	6:J:89:ARG:HD3	2.13	0.48
8:P:15:DC:H2''	8:P:16:DT:H71	1.95	0.48
1:B:104:GLU:HG2	1:B:127:THR:CG2	2.41	0.48
2:C:161:THR:HG23	2:C:165:THR:O	2.13	0.48
2:C:236:VAL:O	2:C:240:ALA:CB	2.62	0.48
2:C:736:ILE:HD11	2:C:916:ILE:CG1	2.42	0.48
2:C:868:LEU:HD13	2:C:869:VAL:N	2.29	0.48
2:C:1114:GLU:HG2	2:C:1115:PRO:HD2	1.94	0.48
3:D:58:TRP:CE3	3:D:68:VAL:HG22	2.48	0.48
3:D:106:TYR:CB	3:D:114:LEU:HG	2.44	0.48
3:D:166:ARG:HH21	3:D:209:ARG:HB2	1.79	0.48
3:D:350:ARG:NH1	3:D:377:SER:HB3	2.28	0.48
3:D:494:HIS:NE2	3:D:545:LEU:HD11	2.29	0.48
3:D:821:LYS:N	3:D:838:SER:O	2.41	0.48
3:D:1207:LEU:HD13	3:D:1208:MET:N	2.29	0.48
3:D:1266:ARG:HA	4:E:109:GLY:C	2.38	0.48
7:O:19:DA:H2'	7:O:20:DT:H72	1.93	0.48
2:C:356:THR:HB	2:C:362:GLU:HB3	1.96	0.48
2:C:491:GLY:O	2:C:494:ILE:HG13	2.13	0.48
2:C:548:ILE:HD11	2:C:579:MET:SD	2.54	0.48
2:C:721:VAL:HG23	2:C:915:ILE:C	2.39	0.48
2:C:887:GLY:HA3	2:C:1028:MET:CE	2.43	0.48
2:C:926:MET:HE3	3:D:840:PHE:CD2	2.49	0.48
2:C:1066:GLN:HG3	3:D:427:ARG:CZ	2.44	0.48
3:D:888:GLU:OE1	3:D:970:THR:HG22	2.13	0.48
3:D:1175:PHE:C	3:D:1176:LEU:HD12	2.39	0.48
2:C:50:VAL:HA	2:C:503:TYR:CE1	2.48	0.48
2:C:317:ASN:CG	2:C:323:HIS:HB2	2.38	0.48
2:C:407:GLN:HB3	2:C:412:ILE:CG2	2.23	0.48
2:C:482:ARG:CG	2:C:512:ILE:HG21	2.43	0.48
2:C:626:VAL:HG13	2:C:888:ARG:HH22	1.78	0.48
2:C:1012:ASP:HB2	2:C:1019:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:ARG:HH11	3:D:421:ARG:HH21	1.62	0.48
2:C:1068:PHE:HB2	3:D:544:HIS:CE1	2.49	0.48
2:C:1126:LYS:HD3	2:C:1129:GLN:OE1	2.13	0.48
3:D:278:ARG:O	3:D:281:ILE:HG13	2.14	0.48
3:D:732:SER:N	3:D:735:ASP:OD2	2.23	0.48
3:D:1063:LYS:NZ	3:D:1078:ASP:HB3	2.28	0.48
5:F:322:GLN:O	5:F:325:ASN:HB2	2.13	0.48
1:B:78:LEU:HD12	1:B:79:ASN:N	2.29	0.48
2:C:133:LEU:HB3	2:C:154:MET:HB3	1.95	0.48
2:C:179:LEU:HB3	2:C:376:ARG:HE	1.77	0.48
2:C:369:ASP:CG	2:C:372:HIS:H	2.22	0.48
2:C:1040:LYS:O	2:C:1060:LYS:HE3	2.14	0.48
3:D:101:VAL:HG13	3:D:375:GLN:CD	2.39	0.48
3:D:749:TYR:OH	3:D:780:GLU:HG3	2.14	0.48
3:D:923:ARG:HB3	3:D:962:VAL:CG2	2.33	0.48
3:D:1249:LYS:HE3	11:D:1404:C0L:C30	2.30	0.48
5:F:261:GLN:HG2	6:J:82:TRP:CH2	2.49	0.48
5:F:273:LEU:HD11	5:F:281:MET:SD	2.54	0.48
5:F:306:LEU:HD12	5:F:351:ILE:HG21	1.95	0.48
1:A:26:LEU:HB2	1:A:190:ASP:CB	2.41	0.48
1:B:94:THR:O	1:B:95:MET:HG3	2.13	0.48
2:C:38:ARG:HH12	2:C:625:LEU:C	2.20	0.48
2:C:517:ARG:CG	2:C:581:VAL:HA	2.36	0.48
2:C:635:ALA:HA	2:C:638:ALA:CB	2.43	0.48
2:C:760:ARG:HB2	2:C:767:GLU:CD	2.39	0.48
2:C:769:ILE:HD12	2:C:867:GLU:OE1	2.14	0.48
2:C:1007:LYS:HA	2:C:1023:VAL:O	2.14	0.48
2:C:1041:ILE:HD12	3:D:520:LYS:HB3	1.96	0.48
3:D:284:GLY:C	3:D:289:LYS:HB2	2.39	0.48
3:D:553:ALA:CB	4:E:54:VAL:HG13	2.43	0.48
3:D:895:ARG:CZ	3:D:967:THR:HA	2.44	0.48
3:D:939:GLU:OE1	3:D:939:GLU:N	2.41	0.48
5:F:310:TYR:HB3	5:F:313:ARG:HH21	1.79	0.48
6:J:90:SER:O	6:J:94:LEU:HG	2.14	0.48
1:A:223:ARG:NH2	1:A:224:GLU:HB2	2.29	0.47
1:B:53:SER:HB3	1:B:163:PRO:HA	1.95	0.47
1:B:211:ALA:O	1:B:214:THR:OG1	2.23	0.47
2:C:380:THR:HG22	2:C:383:GLU:HB2	1.95	0.47
2:C:596:PHE:CE1	2:C:932:LEU:HB3	2.49	0.47
2:C:821:LEU:HD23	5:F:527:LEU:CD2	2.44	0.47
2:C:1012:ASP:CG	2:C:1015:SER:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1121:PHE:CE1	3:D:1254:ILE:HG22	2.49	0.47
3:D:11:ARG:HG3	3:D:1242:SER:HB2	1.96	0.47
3:D:824:VAL:HG11	3:D:851:ILE:O	2.14	0.47
3:D:891:CYS:SG	3:D:969:ALA:N	2.77	0.47
3:D:938:VAL:HG13	3:D:942:GLN:CD	2.39	0.47
3:D:1053:VAL:CG1	3:D:1055:LEU:HB2	2.44	0.47
3:D:1160:GLN:HA	3:D:1163:ARG:HG2	1.96	0.47
5:F:231:TYR:O	5:F:235:ILE:HG12	2.14	0.47
5:F:313:ARG:NH2	5:F:359:MET:HE1	2.29	0.47
7:O:27:DA:H4'	7:O:28:DT:OP1	2.14	0.47
1:A:182:ARG:HA	1:A:188:ASP:CG	2.39	0.47
1:B:99:LYS:O	1:B:134:LEU:N	2.41	0.47
2:C:89:VAL:HA	2:C:92:GLU:CG	2.43	0.47
2:C:180:VAL:HG21	2:C:379:ARG:HG3	1.96	0.47
2:C:257:ILE:O	2:C:261:THR:HG23	2.14	0.47
2:C:540:VAL:CG2	2:C:561:VAL:HG21	2.41	0.47
2:C:650:ILE:HG12	2:C:694:ASP:O	2.13	0.47
2:C:654:SER:HG	2:C:657:TYR:N	2.06	0.47
2:C:777:SER:HB3	2:C:780:VAL:CG2	2.44	0.47
2:C:825:PHE:CD2	5:F:527:LEU:HD11	2.49	0.47
3:D:107:PHE:CZ	3:D:129:ILE:HD11	2.48	0.47
3:D:607:PRO:C	3:D:609:THR:HG23	2.39	0.47
3:D:633:ILE:HD12	3:D:635:VAL:CG1	2.43	0.47
3:D:1044:ALA:O	3:D:1116:ALA:HB2	2.13	0.47
3:D:1059:GLU:C	3:D:1060:ARG:HD3	2.38	0.47
3:D:1131:GLN:O	3:D:1135:VAL:HG23	2.14	0.47
5:F:220:GLU:OE2	5:F:221:LEU:HD12	2.14	0.47
5:F:247:VAL:O	5:F:251:LYS:HG3	2.13	0.47
5:F:358:ALA:HA	5:F:361:ASP:OD2	2.14	0.47
8:P:8:DT:C6	8:P:9:DT:H72	2.49	0.47
1:A:223:ARG:CD	1:B:216:VAL:HG11	2.44	0.47
1:B:18:ARG:O	1:B:18:ARG:HG2	2.12	0.47
1:B:87:SER:OG	1:B:116:VAL:HA	2.13	0.47
2:C:161:THR:HG1	2:C:165:THR:H	1.54	0.47
2:C:471:GLU:HA	2:C:474:ASP:OD2	2.15	0.47
2:C:681:GLY:O	2:C:751:HIS:HA	2.14	0.47
2:C:768:GLU:HB3	2:C:806:VAL:CG1	2.44	0.47
3:D:8:ASP:O	3:D:1245:LEU:HD12	2.15	0.47
3:D:149:SER:O	3:D:152:GLU:HG2	2.14	0.47
3:D:222:ILE:CG1	3:D:240:LEU:HD11	2.44	0.47
3:D:391:VAL:HB	3:D:399:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:499:ASN:OD1	3:D:509:ILE:HD11	2.15	0.47
3:D:576:MET:HG3	3:D:697:ILE:CD1	2.43	0.47
3:D:810:ASN:OD1	3:D:813:GLN:HG3	2.14	0.47
3:D:930:VAL:CG1	3:D:936:VAL:HG22	2.42	0.47
3:D:945:GLY:O	3:D:949:ILE:HG12	2.15	0.47
3:D:1235:ASP:CA	3:D:1238:ILE:HD12	2.37	0.47
4:E:33:LEU:H	4:E:36:THR:CG2	2.26	0.47
5:F:220:GLU:O	5:F:224:SER:OG	2.30	0.47
5:F:261:GLN:O	5:F:264:THR:HG22	2.14	0.47
1:A:49:ALA:HB2	1:A:142:ARG:HA	1.97	0.47
1:A:183:VAL:HG12	1:A:188:ASP:OD1	2.15	0.47
1:B:30:PHE:HB3	1:B:34:LEU:CD2	2.43	0.47
1:B:84:VAL:O	1:B:119:HIS:N	2.38	0.47
1:B:134:LEU:CD1	1:B:136:VAL:HG23	2.42	0.47
1:B:223:ARG:HH21	1:B:227:VAL:HG13	1.79	0.47
2:C:85:GLY:O	2:C:89:VAL:HG23	2.14	0.47
2:C:220:ASP:C	2:C:257:ILE:HG23	2.39	0.47
2:C:1007:LYS:NZ	2:C:1022:PRO:HG2	2.30	0.47
2:C:1049:TYR:CD1	2:C:1056:PRO:HD3	2.49	0.47
3:D:71:LYS:HG2	6:J:24:LEU:HD12	1.96	0.47
3:D:752:ARG:HA	3:D:755:LYS:HE3	1.96	0.47
3:D:979:TYR:O	3:D:1152:LYS:NZ	2.38	0.47
1:A:52:THR:O	1:A:164:VAL:HB	2.15	0.47
1:A:71:GLU:CD	1:A:127:THR:H	2.23	0.47
1:A:215:LEU:HD12	1:A:219:PHE:HE2	1.79	0.47
1:B:78:LEU:HA	1:B:81:LYS:CE	2.35	0.47
1:B:82:SER:OG	1:B:123:MET:HE1	2.14	0.47
1:B:87:SER:HA	1:B:115:GLY:O	2.14	0.47
1:B:213:LYS:O	1:B:216:VAL:HG12	2.15	0.47
2:C:55:ASP:HB3	2:C:59:ASP:OD2	2.13	0.47
2:C:179:LEU:CD2	2:C:378:LEU:HD13	2.42	0.47
2:C:208:ARG:HH22	2:C:305:ARG:HA	1.78	0.47
2:C:241:LEU:HG	2:C:243:TRP:HE1	1.79	0.47
2:C:426:ALA:HA	2:C:429:GLU:HG3	1.96	0.47
3:D:517:VAL:HG11	3:D:523:GLN:CD	2.40	0.47
3:D:570:SER:HB3	3:D:1148:SER:O	2.15	0.47
3:D:624:ARG:HD2	3:D:626:VAL:CG2	2.45	0.47
3:D:925:LEU:O	3:D:941:GLY:N	2.34	0.47
3:D:1064:ILE:HD12	3:D:1080:ILE:HD13	1.95	0.47
3:D:1190:ASN:HA	3:D:1193:VAL:CG1	2.40	0.47
1:A:221:LEU:HD22	1:B:7:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:LEU:O	1:B:41:THR:HB	2.14	0.47
1:B:81:LYS:HE3	3:D:613:SER:HB3	1.97	0.47
2:C:132:PRO:HA	2:C:156:ASP:HA	1.97	0.47
2:C:189:GLU:HA	2:C:199:LEU:C	2.40	0.47
2:C:355:MET:C	2:C:362:GLU:HA	2.40	0.47
2:C:519:VAL:HG23	2:C:524:VAL:N	2.30	0.47
2:C:651:GLU:HB3	2:C:659:THR:O	2.15	0.47
2:C:981:GLN:O	2:C:985:LEU:HG	2.15	0.47
2:C:1007:LYS:HD2	2:C:1022:PRO:C	2.39	0.47
2:C:1066:GLN:HB2	3:D:425:SER:HB3	1.96	0.47
2:C:1071:MET:SD	3:D:502:PRO:HA	2.53	0.47
3:D:245:VAL:HA	3:D:252:PHE:CZ	2.47	0.47
3:D:525:HIS:O	3:D:528:VAL:HG22	2.15	0.47
3:D:592:VAL:HG23	3:D:630:ARG:HB2	1.96	0.47
3:D:651:PHE:CD2	3:D:655:GLY:HA2	2.50	0.47
3:D:749:TYR:CE2	3:D:781:ALA:HA	2.50	0.47
3:D:820:MET:HE3	3:D:837:LYS:CA	2.37	0.47
3:D:1030:ARG:HA	3:D:1033:GLU:OE2	2.15	0.47
5:F:299:ASN:O	5:F:303:VAL:HG23	2.14	0.47
5:F:464:LEU:CD2	5:F:476:ARG:HE	2.26	0.47
1:A:28:PRO:HA	1:A:190:ASP:OD1	2.15	0.47
1:A:84:VAL:HG12	1:A:120:ASN:OD1	2.13	0.47
2:C:138:GLU:OE2	2:C:140:ILE:HD11	2.15	0.47
2:C:140:ILE:HG12	2:C:146:GLU:C	2.40	0.47
2:C:140:ILE:HG12	2:C:146:GLU:O	2.15	0.47
2:C:255:SER:CB	2:C:258:MET:HB2	2.44	0.47
2:C:256:GLU:HA	2:C:259:ARG:NE	2.29	0.47
2:C:398:ARG:HD2	2:C:399:VAL:HG23	1.97	0.47
2:C:501:SER:HA	2:C:587:VAL:O	2.15	0.47
2:C:543:GLN:HG3	3:D:847:LEU:HD11	1.97	0.47
2:C:583:PRO:HG2	2:C:584:ARG:HE	1.79	0.47
2:C:648:GLY:O	2:C:695:ARG:HG3	2.15	0.47
2:C:762:THR:HG21	2:C:764:LEU:HB2	1.96	0.47
2:C:774:PRO:HG2	2:C:834:ASP:CB	2.42	0.47
2:C:1072:GLU:CA	2:C:1075:ALA:HB3	2.44	0.47
2:C:1098:GLY:O	2:C:1102:VAL:HG23	2.14	0.47
2:C:1120:SER:OG	11:D:1404:C0L:O36	2.25	0.47
3:D:9:GLU:OE2	3:D:1244:LYS:NZ	2.23	0.47
3:D:57:ASP:HB3	3:D:58:TRP:HE3	1.78	0.47
3:D:73:ILE:HA	6:J:43:PRO:O	2.14	0.47
3:D:245:VAL:HG22	3:D:252:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:374:LEU:O	3:D:378:VAL:HG23	2.14	0.47
3:D:475:MET:O	3:D:479:GLN:N	2.40	0.47
3:D:560:LEU:HB3	3:D:563:ASN:ND2	2.30	0.47
3:D:571:GLY:CA	3:D:983:MET:HE3	2.45	0.47
3:D:573:PRO:HD3	3:D:698:ASN:OD1	2.15	0.47
3:D:758:LYS:O	3:D:762:ARG:HG2	2.14	0.47
3:D:778:TRP:CH2	3:D:837:LYS:HD3	2.49	0.47
3:D:891:CYS:HB3	3:D:970:THR:CG2	2.43	0.47
3:D:1054:ARG:N	3:D:1067:VAL:HG23	2.30	0.47
3:D:1056:GLU:H	3:D:1064:ILE:HG12	1.80	0.47
3:D:1127:PRO:O	3:D:1131:GLN:HG3	2.14	0.47
3:D:1223:ALA:HA	3:D:1226:PHE:CE2	2.50	0.47
3:D:1228:GLU:O	3:D:1232:VAL:HG23	2.15	0.47
5:F:226:ASP:CG	5:F:229:ARG:H	2.23	0.47
5:F:273:LEU:HD23	5:F:274:PRO:O	2.13	0.47
5:F:335:PHE:HA	5:F:346:TYR:CE2	2.50	0.47
5:F:390:LEU:CD2	5:F:394:PRO:HA	2.45	0.47
7:O:28:DT:H2''	7:O:29:DA:C8	2.50	0.47
8:P:15:DC:H1'	8:P:16:DT:C5'	2.45	0.47
1:A:65:THR:HG21	2:C:656:ASP:OD2	2.15	0.47
1:A:129:ASN:ND2	2:C:652:GLU:OE2	2.48	0.47
1:A:183:VAL:N	1:A:188:ASP:OD1	2.48	0.47
1:B:83:LEU:HD11	1:B:118:VAL:HG13	1.95	0.47
2:C:68:PRO:HA	2:C:71:ARG:HB3	1.97	0.47
2:C:385:ILE:O	2:C:389:ILE:HG13	2.14	0.47
2:C:483:MET:CE	2:C:498:GLY:HA3	2.44	0.47
2:C:547:PRO:O	2:C:555:VAL:HG23	2.15	0.47
2:C:647:SER:HA	2:C:697:GLU:CA	2.45	0.47
2:C:683:CYS:SG	2:C:684:ALA:N	2.88	0.47
2:C:739:ASN:ND2	2:C:743:GLU:OE2	2.47	0.47
3:D:190:LYS:HZ2	3:D:192:ASP:HB3	1.79	0.47
3:D:560:LEU:HD12	3:D:561:SER:H	1.80	0.47
3:D:595:ASP:H	3:D:598:GLU:CD	2.23	0.47
3:D:601:PRO:HA	3:D:608:GLU:HG2	1.96	0.47
3:D:671:VAL:HG12	3:D:675:GLU:OE2	2.15	0.47
3:D:802:ILE:CG2	3:D:807:ALA:HB3	2.44	0.47
3:D:903:GLU:O	3:D:911:ILE:HG13	2.15	0.47
5:F:306:LEU:HD13	5:F:351:ILE:HG21	1.96	0.47
5:F:479:PHE:CB	5:F:481:LEU:HG	2.37	0.47
1:B:28:PRO:HA	1:B:29:GLY:HA2	1.39	0.47
1:B:84:VAL:HG11	1:B:200:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:202:VAL:HG12	2:C:214:PHE:HB2	1.96	0.47
2:C:674:LYS:HA	2:C:685:ASN:HA	1.97	0.47
2:C:770:THR:HG23	2:C:772:ASP:O	2.15	0.47
2:C:854:SER:HB3	2:C:857:ASP:OD2	2.14	0.47
2:C:1134:ASN:N	3:D:15:ALA:HB2	2.30	0.47
3:D:30:LYS:N	3:D:44:ASP:O	2.48	0.47
3:D:189:ALA:HB3	3:D:194:ARG:CD	2.38	0.47
3:D:320:ILE:CG2	3:D:325:ARG:HD3	2.45	0.47
3:D:844:LEU:HD23	3:D:848:GLU:HB3	1.97	0.47
3:D:991:ILE:HG22	3:D:991:ILE:O	2.15	0.47
3:D:1003:ILE:O	3:D:1006:PRO:HD2	2.15	0.47
5:F:283:TRP:CA	5:F:286:ARG:HH21	2.27	0.47
1:A:207:ALA:O	1:A:210:SER:OG	2.25	0.47
2:C:111:ARG:CG	2:C:134:PHE:HB2	2.45	0.47
2:C:182:SER:HB3	2:C:377:ARG:HB3	1.97	0.47
2:C:381:VAL:HG13	2:C:382:GLY:H	1.79	0.47
2:C:635:ALA:HA	2:C:638:ALA:HB3	1.97	0.47
2:C:855:ARG:HH11	2:C:861:LEU:CB	2.27	0.47
2:C:1015:SER:OG	2:C:1016:GLY:N	2.47	0.47
2:C:1043:ALA:HB1	3:D:451:LEU:HD21	1.95	0.47
2:C:1125:LEU:O	2:C:1129:GLN:HG3	2.14	0.47
3:D:173:ARG:HH21	3:D:177:LEU:N	2.13	0.47
3:D:181:LEU:HD21	3:D:198:ARG:HD2	1.95	0.47
3:D:322:PRO:HA	3:D:325:ARG:NE	2.30	0.47
3:D:567:SER:HA	3:D:574:LEU:HD11	1.97	0.47
3:D:686:LYS:HB2	3:D:688:MET:CE	2.44	0.47
3:D:760:PHE:CG	3:D:770:ARG:HG2	2.50	0.47
3:D:890:ASP:OD1	3:D:963:ARG:NH1	2.37	0.47
3:D:1192:ARG:O	3:D:1195:ALA:HB3	2.14	0.47
6:J:79:ARG:NH2	7:O:24:DG:O3'	2.45	0.47
1:A:10:SER:OG	1:A:22:VAL:HG13	2.15	0.46
1:B:29:GLY:O	1:B:33:THR:HG23	2.14	0.46
2:C:32:VAL:HG13	2:C:33:PRO:HD2	1.98	0.46
2:C:302:LYS:O	2:C:302:LYS:HD2	2.16	0.46
2:C:346:VAL:O	2:C:350:GLU:HB2	2.14	0.46
2:C:795:GLU:HB2	2:C:846:LYS:NZ	2.30	0.46
2:C:997:ASP:HB2	2:C:999:ASP:OD2	2.14	0.46
3:D:230:ALA:HB1	3:D:231:PRO:HD2	1.96	0.46
3:D:474:ARG:O	3:D:478:ARG:HG2	2.14	0.46
3:D:743:LYS:O	3:D:746:LEU:HB2	2.15	0.46
3:D:801:THR:HA	3:D:804:ASP:OD2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1039:VAL:HG12	3:D:1117:ASP:HB3	1.97	0.46
3:D:1271:ALA:N	4:E:107:THR:O	2.45	0.46
3:D:1275:THR:HG23	3:D:1278:ALA:H	1.80	0.46
5:F:263:MET:CG	5:F:282:MET:HE1	2.45	0.46
5:F:274:PRO:HG2	5:F:277:GLN:HB2	1.98	0.46
5:F:390:LEU:HD23	5:F:394:PRO:HA	1.96	0.46
5:F:415:GLN:CG	5:F:418:ARG:HD2	2.45	0.46
8:P:19:DT:H2"	8:P:20:DG:C8	2.50	0.46
1:A:72:ASP:OD2	1:A:74:THR:HG22	2.16	0.46
2:C:191:ILE:HA	2:C:197:LYS:O	2.15	0.46
2:C:717:LYS:HB2	2:C:719:LEU:HD11	1.97	0.46
2:C:884:LYS:C	2:C:885:LEU:HD12	2.41	0.46
2:C:1067:ARG:HG3	3:D:421:ARG:HA	1.96	0.46
2:C:1104:GLU:HG3	2:C:1108:LYS:HE3	1.96	0.46
2:C:1128:LEU:O	2:C:1133:LEU:HB2	2.15	0.46
3:D:101:VAL:HG11	3:D:378:VAL:HG11	1.97	0.46
3:D:107:PHE:CA	3:D:114:LEU:HD12	2.45	0.46
3:D:727:SER:OG	3:D:729:VAL:HG13	2.16	0.46
3:D:834:ARG:NE	3:D:834:ARG:HA	2.31	0.46
3:D:901:LEU:HD12	3:D:958:THR:HA	1.96	0.46
3:D:1235:ASP:HA	3:D:1238:ILE:CD1	2.36	0.46
5:F:491:GLU:O	5:F:494:GLN:HB3	2.15	0.46
6:J:110:ARG:H	6:J:110:ARG:HD2	1.81	0.46
1:A:22:VAL:HG21	1:A:191:LYS:NZ	2.31	0.46
1:A:144:ARG:C	1:A:168:TYR:HB2	2.40	0.46
1:B:170:PRO:HA	1:B:199:LYS:NZ	2.30	0.46
2:C:92:GLU:HG3	2:C:93:LEU:HD22	1.95	0.46
2:C:181:ARG:O	2:C:181:ARG:NH1	2.40	0.46
2:C:311:VAL:HG22	2:C:509:PHE:CD1	2.50	0.46
2:C:543:GLN:CG	3:D:847:LEU:HD11	2.46	0.46
2:C:771:ARG:HD2	2:C:785:ASP:O	2.15	0.46
3:D:68:VAL:HB	6:J:17:GLU:OE1	2.15	0.46
3:D:131:PHE:HA	3:D:256:MET:CG	2.46	0.46
3:D:741:ARG:O	3:D:744:GLU:HG2	2.15	0.46
3:D:773:ALA:O	3:D:777:ILE:HG13	2.16	0.46
3:D:912:ARG:CG	3:D:916:ILE:HD12	2.46	0.46
3:D:1199:GLU:O	3:D:1199:GLU:HG2	2.15	0.46
1:A:172:LEU:CD2	1:A:199:LYS:HB3	2.45	0.46
1:A:176:TYR:HB2	1:A:192:LEU:HD11	1.97	0.46
1:B:170:PRO:O	1:B:199:LYS:HG2	2.14	0.46
1:B:171:VAL:C	1:B:172:LEU:HD12	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:108:SER:N	2:C:136:THR:O	2.49	0.46
2:C:414:PRO:O	2:C:418:ILE:HG13	2.15	0.46
2:C:544:ALA:HB2	2:C:580:ASP:CB	2.39	0.46
2:C:802:LEU:HD21	2:C:839:VAL:CB	2.43	0.46
2:C:805:LYS:HB3	2:C:835:THR:O	2.16	0.46
2:C:1067:ARG:HB2	3:D:421:ARG:HB2	1.91	0.46
3:D:1090:LYS:HD2	3:D:1097:ARG:CD	2.45	0.46
3:D:1090:LYS:CG	3:D:1097:ARG:HD3	2.44	0.46
3:D:1103:ASP:O	3:D:1105:VAL:HG13	2.16	0.46
3:D:1165:VAL:N	3:D:1181:ILE:O	2.36	0.46
7:O:6:DA:H1'	7:O:7:DC:H5'	1.98	0.46
8:P:10:DT:H2''	8:P:11:DA:C8	2.51	0.46
2:C:41:PHE:CE2	2:C:980:ALA:HB2	2.50	0.46
2:C:46:GLU:OE1	2:C:46:GLU:N	2.38	0.46
2:C:51:PRO:HD3	2:C:503:TYR:CD1	2.51	0.46
2:C:102:SER:O	2:C:142:ASN:N	2.48	0.46
2:C:624:PRO:HA	2:C:718:ASN:ND2	2.29	0.46
2:C:1050:SER:O	5:F:441:ASP:CB	2.63	0.46
2:C:1075:ALA:O	2:C:1078:ALA:HB3	2.16	0.46
2:C:1117:ILE:HG23	2:C:1118:PRO:HD2	1.97	0.46
3:D:460:LEU:HD12	3:D:461:VAL:N	2.29	0.46
3:D:576:MET:SD	3:D:694:ALA:HB2	2.55	0.46
3:D:676:LEU:CD1	3:D:715:LYS:HB3	2.46	0.46
5:F:265:GLU:O	5:F:268:GLU:HG3	2.16	0.46
5:F:286:ARG:HB3	5:F:290:ARG:NH2	2.30	0.46
5:F:310:TYR:CD2	5:F:355:ILE:HG21	2.50	0.46
5:F:440:GLU:HB3	6:J:7:ARG:CB	2.45	0.46
7:O:4:DT:H1'	7:O:5:DG:H5'	1.96	0.46
7:O:12:DG:H2'	7:O:13:DT:H72	1.97	0.46
8:P:9:DT:H2'	8:P:10:DT:H71	1.97	0.46
1:A:40:ARG:HE	1:B:33:THR:CG2	2.25	0.46
2:C:38:ARG:CZ	2:C:971:ILE:HB	2.45	0.46
2:C:207:SER:N	2:C:308:LEU:HA	2.29	0.46
2:C:224:VAL:C	2:C:232:GLN:HB2	2.41	0.46
2:C:386:GLN:HA	2:C:389:ILE:HD12	1.97	0.46
2:C:446:LEU:HB2	2:C:713:MET:CE	2.46	0.46
2:C:650:ILE:HG21	2:C:692:ALA:HA	1.98	0.46
2:C:650:ILE:CG1	2:C:694:ASP:HB2	2.44	0.46
2:C:1068:PHE:H	3:D:422:VAL:CG2	2.28	0.46
3:D:277:LEU:HB3	3:D:296:LEU:HD13	1.98	0.46
3:D:487:LEU:HA	3:D:490:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:589:THR:CB	3:D:688:MET:H	2.29	0.46
3:D:684:VAL:HG13	3:D:686:LYS:HZ3	1.80	0.46
3:D:749:TYR:CG	3:D:781:ALA:HB2	2.50	0.46
3:D:975:CYS:SG	3:D:977:THR:OG1	2.71	0.46
3:D:1029:PRO:O	3:D:1033:GLU:HG2	2.15	0.46
3:D:1158:VAL:HG22	3:D:1161:MET:SD	2.54	0.46
6:J:92:GLU:O	6:J:96:GLU:HG2	2.15	0.46
1:A:56:ILE:HG12	1:A:136:VAL:HA	1.97	0.46
2:C:241:LEU:HD11	2:C:335:GLU:CB	2.45	0.46
2:C:600:ASP:CG	2:C:929:GLY:H	2.24	0.46
2:C:678:SER:OG	2:C:679:ASN:N	2.48	0.46
2:C:824:ILE:HG12	5:F:511:MET:HE1	1.98	0.46
2:C:883:ASP:HB2	2:C:895:ILE:CD1	2.43	0.46
3:D:239:ASN:ND2	3:D:242:ARG:HH21	2.13	0.46
3:D:263:LYS:HD3	3:D:266:GLU:OE1	2.15	0.46
3:D:513:GLU:HB2	4:E:35:ILE:HG21	1.98	0.46
3:D:631:ALA:O	3:D:667:THR:HG22	2.16	0.46
3:D:905:ALA:HB3	3:D:909:THR:H	1.80	0.46
3:D:982:SER:HB3	3:D:985:THR:HG1	1.81	0.46
3:D:1223:ALA:HA	3:D:1226:PHE:CD2	2.51	0.46
5:F:338:THR:HG23	6:J:89:ARG:NH2	2.31	0.46
6:J:55:LEU:HG	6:J:60:MET:C	2.40	0.46
1:A:95:MET:CA	1:A:113:PRO:HD3	2.46	0.46
1:A:112:PRO:HB2	1:A:116:VAL:HG23	1.97	0.46
1:B:1:MET:CB	1:B:232:ILE:HA	2.42	0.46
2:C:180:VAL:CG2	2:C:379:ARG:HG3	2.46	0.46
2:C:403:ARG:CB	2:C:407:GLN:HG2	2.44	0.46
2:C:563:ARG:O	2:C:566:GLY:N	2.40	0.46
2:C:847:VAL:HG22	2:C:873:VAL:CG2	2.30	0.46
2:C:1045:SER:HB2	3:D:424:TYR:CE1	2.50	0.46
3:D:500:ARG:NH1	3:D:532:PHE:O	2.49	0.46
5:F:218:ASP:O	5:F:222:THR:HG23	2.15	0.46
5:F:306:LEU:O	5:F:309:ARG:HG2	2.15	0.46
5:F:480:GLY:O	5:F:484:GLY:N	2.44	0.46
6:J:33:ARG:HA	6:J:38:GLU:O	2.15	0.46
8:P:11:DA:H2''	8:P:12:DA:C8	2.51	0.46
1:A:40:ARG:NE	1:B:33:THR:HG22	2.25	0.46
1:A:172:LEU:HD23	1:A:199:LYS:CB	2.44	0.46
1:B:50:ALA:HB3	1:B:168:TYR:CE1	2.50	0.46
1:B:97:LEU:CD1	1:B:110:ILE:HA	2.44	0.46
2:C:68:PRO:HA	2:C:71:ARG:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:118:PRO:HG2	2:C:121:GLU:CB	2.45	0.46
2:C:476:HIS:CD2	2:C:478:SER:H	2.33	0.46
2:C:532:THR:HG22	2:C:535:GLU:CD	2.40	0.46
2:C:648:GLY:C	2:C:695:ARG:HG3	2.40	0.46
2:C:736:ILE:HD11	2:C:916:ILE:HD12	1.96	0.46
2:C:1002:VAL:HG13	2:C:1007:LYS:O	2.15	0.46
2:C:1134:ASN:HB3	3:D:13:GLY:C	2.41	0.46
3:D:58:TRP:CD1	3:D:82:VAL:HG22	2.51	0.46
3:D:137:THR:N	3:D:253:THR:O	2.48	0.46
3:D:173:ARG:HG2	3:D:205:MET:CB	2.45	0.46
3:D:195:ARG:CD	3:D:198:ARG:HD3	2.36	0.46
3:D:343:LEU:O	3:D:347:VAL:HG23	2.16	0.46
3:D:391:VAL:N	3:D:399:LEU:HD12	2.30	0.46
3:D:497:LEU:O	3:D:543:VAL:HG13	2.16	0.46
3:D:895:ARG:NH1	3:D:967:THR:HG22	2.30	0.46
3:D:1045:PRO:CB	3:D:1111:LEU:HD22	2.43	0.46
3:D:1081:SER:O	3:D:1084:GLN:HB2	2.16	0.46
3:D:1182:ASP:HB3	3:D:1185:GLU:HB3	1.96	0.46
1:B:55:ARG:O	1:B:136:VAL:HG13	2.15	0.46
1:B:78:LEU:HD13	3:D:636:ARG:NH2	2.31	0.46
2:C:463:LEU:CD1	2:C:468:ALA:HB2	2.43	0.46
2:C:465:ARG:HH22	2:C:492:PRO:HG2	1.81	0.46
2:C:540:VAL:HG22	2:C:576:VAL:HA	1.98	0.46
2:C:795:GLU:HA	2:C:846:LYS:HD3	1.98	0.46
2:C:1041:ILE:CD1	3:D:520:LYS:HB3	2.45	0.46
2:C:1044:ARG:NH2	2:C:1048:PRO:HD2	2.31	0.46
3:D:27:GLU:CD	3:D:96:GLU:H	2.18	0.46
3:D:56:ARG:HB3	3:D:59:GLU:OE1	2.16	0.46
3:D:640:LEU:HD11	3:D:675:GLU:HG2	1.98	0.46
3:D:800:ILE:HG12	3:D:804:ASP:CG	2.41	0.46
3:D:1049:VAL:HA	3:D:1107:VAL:HG22	1.96	0.46
4:E:33:LEU:O	4:E:33:LEU:HD12	2.16	0.46
1:B:53:SER:O	1:B:139:VAL:HB	2.16	0.45
1:B:108:GLY:HA2	1:B:121:PRO:HB3	1.97	0.45
2:C:270:THR:C	2:C:274:LEU:HD23	2.41	0.45
2:C:446:LEU:HB2	2:C:713:MET:HE2	1.98	0.45
2:C:673:ARG:HB2	2:C:686:GLN:NE2	2.31	0.45
3:D:921:TYR:CE1	3:D:949:ILE:HG13	2.48	0.45
3:D:927:THR:HG23	3:D:961:LYS:HB3	1.96	0.45
3:D:1152:LYS:O	3:D:1156:VAL:HG23	2.16	0.45
3:D:1234:THR:HG23	3:D:1235:ASP:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:98:GLU:O	4:E:101:ALA:HB3	2.16	0.45
5:F:251:LYS:HE2	5:F:337:TYR:CE2	2.51	0.45
5:F:302:LEU:HA	5:F:305:SER:OG	2.16	0.45
5:F:415:GLN:C	5:F:418:ARG:HG3	2.40	0.45
7:O:6:DA:H1'	7:O:7:DC:O5'	2.16	0.45
1:A:14:LEU:HD11	1:A:20:GLN:CG	2.44	0.45
1:A:182:ARG:HA	1:A:188:ASP:CB	2.44	0.45
1:B:14:LEU:HD12	1:B:18:ARG:O	2.16	0.45
2:C:584:ARG:HH12	2:C:976:VAL:H	1.63	0.45
2:C:668:ARG:HD3	2:C:670:TYR:OH	2.16	0.45
2:C:875:GLN:HE21	2:C:877:ARG:HE	1.63	0.45
3:D:62:CYS:SG	3:D:77:ARG:NH2	2.89	0.45
3:D:310:MET:O	3:D:313:VAL:HG22	2.16	0.45
3:D:590:THR:CG2	3:D:630:ARG:HH11	2.29	0.45
3:D:886:VAL:HG22	3:D:974:VAL:HG23	1.98	0.45
3:D:890:ASP:CG	3:D:963:ARG:HH12	2.23	0.45
3:D:948:GLU:OE1	3:D:948:GLU:N	2.31	0.45
3:D:1277:GLU:O	3:D:1280:ALA:HB3	2.17	0.45
5:F:334:LYS:HD3	5:F:350:TRP:HZ2	1.77	0.45
1:A:6:ARG:NH2	1:B:217:GLU:O	2.49	0.45
1:A:177:LYS:HE2	1:A:193:ILE:HG21	1.98	0.45
1:B:30:PHE:O	1:B:34:LEU:HG	2.17	0.45
1:B:47:PRO:HG3	1:B:144:ARG:NH2	2.31	0.45
1:B:56:ILE:HG12	1:B:136:VAL:HG22	1.99	0.45
2:C:84:GLY:H	2:C:87:GLU:CD	2.24	0.45
2:C:105:LEU:HB2	2:C:139:PHE:HD1	1.82	0.45
2:C:1044:ARG:HH21	2:C:1047:GLY:CA	2.29	0.45
2:C:1067:ARG:CA	3:D:421:ARG:HA	2.47	0.45
3:D:642:PRO:CD	3:D:657:GLN:NE2	2.80	0.45
3:D:751:GLU:O	3:D:755:LYS:HE2	2.17	0.45
5:F:330:ARG:HH22	7:O:24:DG:H3'	1.81	0.45
1:B:214:THR:O	1:B:217:GLU:HB2	2.17	0.45
2:C:48:LEU:HD12	2:C:49:GLU:H	1.82	0.45
2:C:626:VAL:HA	2:C:972:VAL:O	2.17	0.45
2:C:647:SER:H	2:C:698:ALA:HB2	1.80	0.45
2:C:650:ILE:HG22	2:C:692:ALA:HA	1.97	0.45
2:C:784:LEU:HD23	2:C:788:GLY:O	2.15	0.45
2:C:851:ARG:HB3	2:C:870:ARG:HB2	1.98	0.45
2:C:944:TRP:C	2:C:993:LEU:HD23	2.42	0.45
2:C:961:ASP:O	2:C:962:GLU:HG3	2.15	0.45
2:C:1007:LYS:HE3	2:C:1022:PRO:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1053:THR:OG1	2:C:1055:GLN:HG3	2.15	0.45
3:D:336:ALA:HB1	5:F:423:LEU:CD1	2.43	0.45
3:D:592:VAL:HG23	3:D:630:ARG:CB	2.46	0.45
3:D:752:ARG:O	3:D:756:VAL:HG23	2.16	0.45
3:D:938:VAL:HG13	3:D:942:GLN:OE1	2.17	0.45
5:F:511:MET:HB3	5:F:515:ARG:HH22	1.80	0.45
7:O:8:DA:H2''	7:O:9:DA:C8	2.50	0.45
1:A:32:TYR:HB2	2:C:1017:GLU:OE2	2.17	0.45
1:A:79:ASN:O	1:A:82:SER:HB3	2.17	0.45
1:A:221:LEU:O	1:A:225:LEU:HD13	2.17	0.45
1:B:55:ARG:HB3	1:B:161:ARG:CA	2.47	0.45
1:B:81:LYS:NZ	3:D:617:GLU:OE2	2.46	0.45
2:C:401:ARG:O	2:C:404:MET:HB3	2.16	0.45
2:C:447:SER:CB	2:C:613:ARG:HB2	2.46	0.45
2:C:559:VAL:HG12	2:C:560:LEU:O	2.17	0.45
2:C:598:GLU:OE1	2:C:598:GLU:N	2.31	0.45
2:C:642:VAL:C	2:C:702:ILE:HG22	2.41	0.45
2:C:689:ILE:CD1	2:C:701:VAL:HG12	2.47	0.45
2:C:756:GLU:CG	2:C:870:ARG:HG2	2.47	0.45
2:C:767:GLU:HB3	2:C:805:LYS:CE	2.40	0.45
2:C:845:GLY:HA3	2:C:874:ALA:O	2.17	0.45
2:C:981:GLN:H	2:C:984:GLU:CD	2.23	0.45
2:C:1010:LEU:O	2:C:1018:PRO:HA	2.16	0.45
2:C:1050:SER:HB3	2:C:1053:THR:O	2.16	0.45
3:D:219:LEU:O	3:D:222:ILE:HG22	2.16	0.45
3:D:239:ASN:ND2	3:D:243:GLU:OE2	2.50	0.45
3:D:441:CYS:HB3	3:D:512:PHE:HB3	1.98	0.45
3:D:499:ASN:HD22	3:D:500:ARG:N	2.14	0.45
3:D:633:ILE:O	3:D:665:GLU:HA	2.15	0.45
3:D:890:ASP:HB2	3:D:977:THR:HG21	1.97	0.45
5:F:409:LYS:O	5:F:413:ILE:HG13	2.17	0.45
5:F:415:GLN:N	5:F:418:ARG:HD2	2.31	0.45
5:F:470:ARG:O	5:F:474:VAL:HG23	2.16	0.45
8:P:14:DA:H1'	8:P:15:DC:C5'	2.47	0.45
1:B:41:THR:O	1:B:44:SER:N	2.49	0.45
1:B:81:LYS:NZ	3:D:613:SER:H	2.14	0.45
1:B:193:ILE:O	1:B:194:LEU:HD23	2.17	0.45
2:C:119:VAL:HG13	2:C:167:ILE:HD12	1.98	0.45
2:C:182:SER:HB3	2:C:377:ARG:HD2	1.98	0.45
2:C:523:VAL:HA	2:C:552:GLY:O	2.17	0.45
2:C:687:CYS:O	2:C:703:ALA:HB1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:725:PRO:CA	2:C:730:ASN:HD21	2.27	0.45
2:C:762:THR:CG2	2:C:764:LEU:HB2	2.46	0.45
3:D:131:PHE:HD1	3:D:256:MET:HG2	1.82	0.45
3:D:184:LEU:O	3:D:194:ARG:HD3	2.16	0.45
3:D:248:TYR:O	3:D:251:TYR:HB2	2.17	0.45
3:D:468:ASN:HD21	3:D:470:LYS:HB3	1.82	0.45
3:D:579:LEU:CD2	3:D:808:THR:HB	2.46	0.45
3:D:621:ALA:O	3:D:626:VAL:HB	2.16	0.45
3:D:847:LEU:H	3:D:847:LEU:HD12	1.80	0.45
3:D:947:PRO:HD2	3:D:948:GLU:OE1	2.16	0.45
3:D:1066:ILE:CD1	3:D:1075:VAL:HB	2.40	0.45
3:D:1262:THR:HB	4:E:55:ILE:HD11	1.99	0.45
6:J:28:GLN:O	6:J:43:PRO:HA	2.16	0.45
1:A:137:GLU:OE2	1:A:161:ARG:NH1	2.50	0.45
2:C:280:LYS:HB2	2:C:280:LYS:HZ2	1.81	0.45
2:C:1048:PRO:C	2:C:1056:PRO:HA	2.41	0.45
2:C:1090:THR:OG1	2:C:1115:PRO:HB3	2.16	0.45
3:D:24:SER:HA	3:D:92:MET:O	2.16	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CB	2.46	0.45
3:D:581:MET:O	3:D:585:LEU:HG	2.17	0.45
3:D:705:PRO:HB2	4:E:41:ASP:OD2	2.17	0.45
3:D:1032:GLN:O	3:D:1036:GLU:HG2	2.17	0.45
3:D:1045:PRO:HD2	3:D:1112:MET:CG	2.47	0.45
4:E:81:PRO:O	4:E:82:LEU:HD23	2.17	0.45
5:F:302:LEU:N	7:O:31:DT:H1'	2.32	0.45
5:F:309:ARG:NH2	5:F:352:ARG:HD3	2.31	0.45
5:F:310:TYR:CB	5:F:313:ARG:HH21	2.30	0.45
5:F:369:PRO:O	5:F:373:VAL:HG23	2.16	0.45
6:J:97:LEU:HG	6:J:100:GLU:OE1	2.16	0.45
1:B:146:TYR:HB2	3:D:620:MET:CE	2.44	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CD	2.46	0.45
2:C:206:PRO:CB	2:C:308:LEU:HB3	2.47	0.45
2:C:442:GLN:O	2:C:442:GLN:HG3	2.17	0.45
2:C:455:LEU:HG	2:C:499:SER:HA	1.98	0.45
2:C:505:ARG:O	2:C:513:GLU:N	2.50	0.45
2:C:767:GLU:OE1	2:C:805:LYS:NZ	2.35	0.45
2:C:818:GLU:O	2:C:822:ARG:HG2	2.16	0.45
2:C:821:LEU:O	2:C:825:PHE:HB2	2.17	0.45
2:C:922:VAL:HG22	2:C:930:GLN:NE2	2.32	0.45
2:C:929:GLY:HA2	2:C:932:LEU:HD12	1.98	0.45
2:C:1050:SER:CB	2:C:1053:THR:HG23	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:108:LYS:HE2	3:D:386:ARG:O	2.17	0.45
3:D:155:MET:HE1	3:D:219:LEU:HD12	1.99	0.45
3:D:886:VAL:HA	3:D:974:VAL:HG23	1.97	0.45
3:D:1045:PRO:HB2	3:D:1111:LEU:CB	2.43	0.45
5:F:258:TYR:CD1	6:J:94:LEU:HB3	2.52	0.45
5:F:348:THR:HG22	5:F:352:ARG:HE	1.82	0.45
1:A:95:MET:SD	1:A:110:ILE:HG21	2.57	0.45
1:A:107:ALA:CB	1:A:121:PRO:HA	2.44	0.45
1:A:144:ARG:HD2	1:B:1:MET:CE	2.45	0.45
2:C:182:SER:HB2	2:C:183:PRO:HD2	1.98	0.45
2:C:313:ARG:HB2	2:C:328:ILE:CG2	2.47	0.45
2:C:335:GLU:O	2:C:339:VAL:HG22	2.16	0.45
2:C:414:PRO:HA	2:C:417:LEU:HD12	1.98	0.45
2:C:672:MET:HE1	2:C:703:ALA:CB	2.46	0.45
2:C:707:CYS:HB3	2:C:715:LEU:CD2	2.47	0.45
2:C:1118:PRO:HG2	2:C:1121:PHE:HB2	1.98	0.45
3:D:27:GLU:HG3	3:D:95:ILE:HA	1.99	0.45
3:D:48:CYS:SG	3:D:50:LYS:HB3	2.57	0.45
3:D:110:VAL:HA	3:D:111:PRO:HA	1.84	0.45
3:D:136:ILE:HD11	3:D:229:LEU:HD11	1.98	0.45
3:D:912:ARG:HH21	3:D:953:LEU:CD2	2.29	0.45
3:D:913:ASP:HB3	3:D:916:ILE:CD1	2.46	0.45
3:D:1053:VAL:HG12	3:D:1103:ASP:H	1.82	0.45
3:D:1065:THR:HG23	3:D:1076:VAL:CA	2.46	0.45
5:F:261:GLN:HG2	6:J:82:TRP:CZ2	2.52	0.45
8:P:5:DC:H2''	8:P:6:DA:C8	2.51	0.45
8:P:17:DT:C2'	8:P:18:DT:H71	2.47	0.45
1:A:146:TYR:HA	1:A:166:SER:O	2.17	0.45
1:B:19:SER:HB2	1:B:204:PRO:CG	2.46	0.45
1:B:56:ILE:HG12	1:B:136:VAL:CG1	2.46	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CB	2.47	0.45
2:C:230:ARG:HH22	5:F:215:ALA:N	2.15	0.45
2:C:799:GLY:H	2:C:839:VAL:HG13	1.82	0.45
3:D:295:ARG:O	3:D:298:VAL:HG22	2.17	0.45
3:D:322:PRO:HA	3:D:325:ARG:HG2	1.98	0.45
3:D:348:ILE:HG22	3:D:352:ASN:ND2	2.32	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CD2	2.52	0.45
3:D:474:ARG:O	3:D:477:GLU:HB2	2.17	0.45
3:D:775:VAL:HG12	3:D:779:LYS:HE3	1.99	0.45
3:D:896:GLY:O	3:D:961:LYS:HE3	2.16	0.45
3:D:1167:ILE:O	3:D:1177:PRO:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1168:ILE:HG13	3:D:1202:ALA:HB3	1.98	0.45
3:D:1254:ILE:CD1	3:D:1256:LYS:HB3	2.47	0.45
5:F:233:LYS:O	5:F:237:LYS:HE3	2.17	0.45
1:A:26:LEU:HB2	1:A:190:ASP:CA	2.47	0.44
1:B:224:GLU:O	1:B:225:LEU:HD23	2.16	0.44
2:C:352:GLN:CB	2:C:365:VAL:HG21	2.45	0.44
2:C:1072:GLU:OE1	2:C:1072:GLU:N	2.50	0.44
3:D:34:ILE:HA	3:D:40:LYS:O	2.17	0.44
3:D:56:ARG:HA	6:J:13:ALA:O	2.16	0.44
3:D:71:LYS:O	3:D:73:ILE:HG12	2.17	0.44
3:D:360:LEU:CD2	5:F:329:ILE:HG21	2.45	0.44
3:D:406:LEU:HB2	3:D:409:LYS:CB	2.44	0.44
3:D:775:VAL:O	3:D:779:LYS:HG3	2.17	0.44
3:D:819:GLY:C	3:D:839:SER:HB3	2.42	0.44
3:D:872:TYR:OH	3:D:876:ARG:NH1	2.46	0.44
3:D:925:LEU:HD12	3:D:938:VAL:HG12	1.99	0.44
3:D:981:ARG:HD3	3:D:986:GLY:HA2	1.99	0.44
3:D:1047:ALA:HB3	3:D:1109:GLN:H	1.82	0.44
1:A:61:HIS:CD2	1:A:63:PHE:H	2.35	0.44
1:A:128:LEU:HD23	1:A:132:GLY:CA	2.47	0.44
2:C:189:GLU:HB3	2:C:200:HIS:HA	1.98	0.44
2:C:238:LEU:C	2:C:243:TRP:HB2	2.42	0.44
2:C:423:VAL:O	2:C:427:ILE:HG13	2.17	0.44
2:C:1082:ALA:CB	3:D:1258:ILE:HG12	2.47	0.44
2:C:1094:ASP:HB3	2:C:1119:GLU:HB3	2.00	0.44
3:D:384:ASN:HD22	3:D:399:LEU:HD13	1.83	0.44
3:D:406:LEU:HB2	3:D:409:LYS:CD	2.45	0.44
5:F:309:ARG:HH21	5:F:352:ARG:HD3	1.83	0.44
5:F:356:THR:O	5:F:359:MET:HB2	2.17	0.44
5:F:371:HIS:HE1	7:O:21:DT:H2'	1.82	0.44
6:J:108:ARG:HD2	6:J:109:ARG:N	2.25	0.44
2:C:109:ASP:OD2	2:C:111:ARG:HB3	2.17	0.44
2:C:230:ARG:HH22	5:F:215:ALA:H	1.65	0.44
2:C:343:GLU:O	2:C:347:ARG:HG3	2.17	0.44
2:C:407:GLN:HG3	2:C:417:LEU:HD23	1.99	0.44
2:C:560:LEU:HD22	2:C:568:VAL:HG12	1.98	0.44
2:C:905:PRO:O	2:C:913:VAL:HG13	2.18	0.44
2:C:1110:GLU:HG2	4:E:69:ASN:OD1	2.18	0.44
3:D:35:ASN:ND2	3:D:38:THR:HG22	2.32	0.44
3:D:319:VAL:HG22	3:D:344:TYR:CE1	2.53	0.44
3:D:367:VAL:O	3:D:371:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:383:ASP:HA	3:D:401:SER:CB	2.47	0.44
3:D:433:GLY:HA3	3:D:436:LEU:HD12	1.98	0.44
3:D:692:VAL:O	3:D:696:ILE:HG13	2.17	0.44
5:F:293:ASN:O	5:F:297:GLU:HG3	2.17	0.44
5:F:415:GLN:C	5:F:418:ARG:CG	2.90	0.44
5:F:415:GLN:HG2	5:F:418:ARG:HD2	1.99	0.44
7:O:25:DC:H2''	7:O:26:DT:H71	1.99	0.44
7:O:30:DC:H6	7:O:30:DC:H2'	1.65	0.44
8:P:25:DG:H2''	8:P:26:DC:C6	2.53	0.44
1:A:6:ARG:HB2	1:A:7:PRO:HD2	1.98	0.44
1:A:186:ARG:NH1	1:B:148:PRO:HB2	2.33	0.44
1:B:84:VAL:HG22	1:B:119:HIS:HD2	1.80	0.44
2:C:117:ALA:HB1	2:C:118:PRO:HD2	1.99	0.44
2:C:224:VAL:O	2:C:224:VAL:HG12	2.18	0.44
2:C:348:LEU:HD12	2:C:365:VAL:HG12	1.99	0.44
2:C:425:ALA:O	2:C:429:GLU:HG3	2.17	0.44
2:C:455:LEU:O	2:C:497:ILE:HG23	2.17	0.44
2:C:720:LEU:HD12	2:C:1026:GLY:C	2.43	0.44
2:C:1057:LEU:HD23	2:C:1062:GLN:CG	2.47	0.44
3:D:155:MET:HE1	3:D:219:LEU:HB3	1.98	0.44
3:D:412:ARG:CA	3:D:1227:GLN:HG3	2.48	0.44
3:D:480:ARG:HB3	3:D:482:GLN:NE2	2.32	0.44
3:D:622:ALA:HB2	3:D:627:LEU:HB2	1.99	0.44
3:D:648:ALA:O	3:D:652:GLY:N	2.50	0.44
3:D:924:THR:C	3:D:962:VAL:HG23	2.42	0.44
3:D:1050:THR:N	3:D:1107:VAL:HG22	2.32	0.44
3:D:1052:ARG:HA	3:D:1103:ASP:C	2.43	0.44
3:D:1208:MET:HG3	3:D:1213:ALA:CB	2.41	0.44
4:E:89:GLU:HG2	4:E:93:SER:HB3	1.99	0.44
5:F:415:GLN:HB3	5:F:418:ARG:HD3	1.96	0.44
6:J:33:ARG:CZ	6:J:37:GLY:HA2	2.48	0.44
8:P:17:DT:H2''	8:P:18:DT:OP2	2.18	0.44
2:C:244:THR:O	2:C:248:ILE:HG13	2.18	0.44
2:C:308:LEU:HD21	2:C:313:ARG:CD	2.47	0.44
2:C:354:THR:CA	2:C:365:VAL:HG23	2.47	0.44
2:C:647:SER:CA	2:C:697:GLU:HA	2.46	0.44
2:C:792:ILE:CD1	2:C:850:ILE:HD12	2.48	0.44
2:C:902:GLU:HG2	2:C:903:ASP:N	2.32	0.44
3:D:5:ASN:O	3:D:5:ASN:ND2	2.50	0.44
3:D:263:LYS:HA	3:D:266:GLU:CD	2.43	0.44
3:D:468:ASN:ND2	5:F:525:ASP:HB3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:485:ASP:O	3:D:488:GLU:HB3	2.18	0.44
3:D:496:VAL:O	3:D:497:LEU:HD23	2.17	0.44
3:D:662:TRP:HZ3	3:D:664:ALA:HB2	1.79	0.44
3:D:1207:LEU:HD22	3:D:1208:MET:N	2.27	0.44
5:F:252:ARG:NE	5:F:287:ASP:OD2	2.47	0.44
5:F:309:ARG:HG3	5:F:310:TYR:CD1	2.52	0.44
5:F:332:VAL:HB	5:F:343:PHE:HZ	1.82	0.44
8:P:9:DT:C2'	8:P:10:DT:H71	2.47	0.44
1:A:51:VAL:HA	1:A:140:VAL:HA	1.98	0.44
1:B:15:THR:HG22	1:B:18:ARG:HB3	2.00	0.44
1:B:213:LYS:O	1:B:217:GLU:HG3	2.17	0.44
2:C:97:GLU:OE2	2:C:142:ASN:ND2	2.50	0.44
2:C:103:MET:HA	2:C:141:ASN:HA	2.00	0.44
2:C:217:ASP:HB2	2:C:221:THR:OG1	2.18	0.44
2:C:308:LEU:HD21	2:C:313:ARG:HD3	1.99	0.44
2:C:338:VAL:O	2:C:342:ILE:HG13	2.18	0.44
2:C:1049:TYR:CG	2:C:1056:PRO:HG3	2.53	0.44
2:C:1131:LEU:HD21	3:D:402:LEU:CB	2.48	0.44
2:C:1131:LEU:C	2:C:1133:LEU:HG	2.42	0.44
3:D:131:PHE:HA	3:D:256:MET:SD	2.58	0.44
3:D:144:ARG:NH1	3:D:229:LEU:HB3	2.32	0.44
3:D:212:ALA:C	3:D:215:GLU:HG2	2.42	0.44
3:D:263:LYS:O	3:D:266:GLU:HB2	2.18	0.44
3:D:453:LYS:HA	3:D:456:VAL:HG12	1.99	0.44
3:D:484:TRP:O	3:D:487:LEU:HB3	2.17	0.44
3:D:637:LEU:HB2	3:D:662:TRP:CE2	2.51	0.44
3:D:789:LEU:CD2	3:D:815:ARG:HA	2.48	0.44
3:D:1169:ASP:N	3:D:1202:ALA:HB3	2.32	0.44
3:D:1183:ARG:O	3:D:1187:GLU:HG3	2.18	0.44
5:F:240:LEU:HD22	7:O:31:DT:C4	2.52	0.44
5:F:249:LEU:HD22	5:F:291:ALA:CB	2.42	0.44
6:J:4:ARG:HD3	6:J:5:VAL:O	2.17	0.44
2:C:40:SER:HA	2:C:973:SER:O	2.18	0.44
2:C:113:ASP:HB2	2:C:132:PRO:CG	2.48	0.44
2:C:455:LEU:O	2:C:497:ILE:HA	2.17	0.44
2:C:507:ASN:CG	2:C:509:PHE:H	2.25	0.44
2:C:543:GLN:O	2:C:546:SER:OG	2.25	0.44
2:C:544:ALA:CB	2:C:580:ASP:HB2	2.39	0.44
2:C:724:MET:HE2	2:C:725:PRO:O	2.17	0.44
2:C:884:LYS:O	2:C:1033:LEU:HD13	2.18	0.44
3:D:69:ARG:CA	6:J:20:ARG:HH22	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:148:LEU:O	3:D:152:GLU:HG2	2.18	0.44
3:D:305:SER:HB2	3:D:307:ASN:ND2	2.31	0.44
3:D:765:LEU:HD12	3:D:770:ARG:N	2.33	0.44
3:D:898:VAL:HG12	3:D:961:LYS:CA	2.47	0.44
3:D:1050:THR:HG22	3:D:1106:GLU:CA	2.33	0.44
3:D:1123:ARG:HG3	3:D:1204:ARG:HH22	1.82	0.44
3:D:1165:VAL:HA	3:D:1206:VAL:HG22	1.99	0.44
5:F:440:GLU:H	6:J:6:LEU:C	2.17	0.44
6:J:32:TYR:CD2	6:J:54:TRP:HB3	2.52	0.44
8:P:15:DC:H1'	8:P:16:DT:H5'	1.99	0.44
1:A:9:LEU:HD13	1:B:221:LEU:O	2.17	0.44
1:A:95:MET:CG	1:A:138:LEU:HB2	2.48	0.44
1:B:96:TYR:O	1:B:111:VAL:HG12	2.17	0.44
1:B:96:TYR:CE1	1:B:137:GLU:HG2	2.52	0.44
2:C:40:SER:OG	2:C:975:PRO:HD3	2.18	0.44
2:C:41:PHE:CE1	2:C:963:LEU:HD13	2.53	0.44
2:C:64:LEU:CD1	2:C:385:ILE:HB	2.48	0.44
2:C:660:VAL:HG22	2:C:668:ARG:C	2.42	0.44
3:D:36:TYR:CD2	3:D:37:ARG:HB2	2.52	0.44
3:D:71:LYS:CA	3:D:82:VAL:HG13	2.40	0.44
3:D:285:LYS:O	3:D:288:LYS:HB3	2.18	0.44
3:D:327:MET:HA	3:D:336:ALA:O	2.18	0.44
3:D:383:ASP:HB2	3:D:403:SER:OG	2.18	0.44
3:D:447:MET:O	3:D:451:LEU:HD23	2.18	0.44
3:D:767:HIS:CE1	3:D:771:ASN:HD21	2.35	0.44
3:D:1190:ASN:O	3:D:1193:VAL:HG12	2.17	0.44
3:D:1195:ALA:O	3:D:1196:GLU:HB2	2.17	0.44
5:F:342:LYS:CG	7:O:29:DA:H3'	2.48	0.44
1:A:95:MET:SD	1:A:138:LEU:HD22	2.57	0.44
1:B:8:THR:N	1:B:24:GLU:O	2.47	0.44
2:C:140:ILE:HD11	2:C:147:ILE:HG22	2.00	0.44
2:C:147:ILE:O	2:C:147:ILE:HG13	2.18	0.44
2:C:245:SER:CB	2:C:262:LEU:HD21	2.38	0.44
2:C:274:LEU:HD12	2:C:292:ALA:HB1	2.00	0.44
2:C:290:GLU:C	2:C:294:THR:HG1	2.24	0.44
2:C:317:ASN:ND2	2:C:323:HIS:HB2	2.33	0.44
2:C:395:ARG:HA	2:C:398:ARG:NE	2.30	0.44
2:C:633:ARG:O	2:C:636:ILE:HG12	2.17	0.44
2:C:802:LEU:HB2	2:C:837:LEU:HG	2.00	0.44
2:C:906:PHE:CD2	2:C:910:GLY:HA2	2.53	0.44
3:D:590:THR:HB	3:D:687:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:895:ARG:NH2	3:D:967:THR:HA	2.33	0.44
3:D:931:ASP:O	3:D:934:GLY:N	2.50	0.44
4:E:60:ARG:NH1	4:E:64:ILE:HG13	2.33	0.44
5:F:280:ASP:O	5:F:284:ILE:HG12	2.16	0.44
1:A:177:LYS:HE3	1:A:193:ILE:HD13	2.00	0.43
2:C:505:ARG:HG2	2:C:506:VAL:N	2.33	0.43
2:C:588:SER:OG	2:C:591:THR:OG1	2.31	0.43
3:D:173:ARG:HG2	3:D:205:MET:N	2.32	0.43
3:D:212:ALA:HA	3:D:215:GLU:OE2	2.17	0.43
3:D:328:VAL:HG12	3:D:336:ALA:HB3	1.98	0.43
3:D:328:VAL:HG22	3:D:329:GLN:H	1.83	0.43
3:D:443:LEU:HD21	3:D:448:ALA:CB	2.37	0.43
3:D:571:GLY:HA3	3:D:983:MET:HE3	1.99	0.43
3:D:642:PRO:HB2	3:D:643:PRO:HD2	1.99	0.43
3:D:693:GLN:O	3:D:697:ILE:HG13	2.18	0.43
3:D:929:ALA:O	3:D:937:ILE:HG22	2.18	0.43
3:D:1160:GLN:O	3:D:1163:ARG:HG2	2.18	0.43
3:D:1172:SER:H	3:D:1199:GLU:HG3	1.83	0.43
3:D:1210:ILE:HG13	3:D:1211:THR:N	2.32	0.43
5:F:278:ARG:O	5:F:281:MET:HG2	2.18	0.43
5:F:300:LEU:HA	5:F:303:VAL:CG2	2.48	0.43
5:F:351:ILE:O	5:F:355:ILE:HG13	2.17	0.43
5:F:405:ILE:HD12	5:F:409:LYS:HG3	2.00	0.43
7:O:1:DG:H2''	7:O:2:DC:C5'	2.47	0.43
7:O:12:DG:H2''	7:O:13:DT:H5'	2.00	0.43
8:P:21:DT:OP1	8:P:21:DT:H3'	2.18	0.43
1:A:173:LYS:HG2	1:A:174:VAL:N	2.33	0.43
1:B:99:LYS:O	1:B:133:LYS:HA	2.18	0.43
2:C:158:PRO:HG2	2:C:431:PHE:CZ	2.53	0.43
2:C:396:MET:HE2	2:C:419:ASN:H	1.83	0.43
2:C:833:ARG:NH1	2:C:835:THR:HG22	2.33	0.43
3:D:70:PHE:CA	3:D:73:ILE:HD11	2.47	0.43
3:D:73:ILE:HG23	6:J:27:ARG:HH11	1.83	0.43
3:D:425:SER:HA	3:D:543:VAL:O	2.18	0.43
3:D:457:MET:CE	3:D:473:LYS:HB2	2.48	0.43
3:D:494:HIS:HE2	3:D:545:LEU:HD11	1.82	0.43
3:D:515:MET:O	3:D:517:VAL:HG23	2.19	0.43
3:D:1065:THR:CG2	3:D:1076:VAL:HG22	2.48	0.43
3:D:1143:ARG:C	3:D:1146:GLY:H	2.26	0.43
4:E:60:ARG:O	4:E:63:GLN:HB2	2.18	0.43
5:F:342:LYS:H	7:O:29:DA:P	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:GLU:OE2	1:B:78:LEU:HD11	2.18	0.43
2:C:105:LEU:HD12	2:C:138:GLU:C	2.42	0.43
2:C:238:LEU:O	2:C:243:TRP:N	2.51	0.43
2:C:760:ARG:N	2:C:767:GLU:OE1	2.47	0.43
2:C:922:VAL:HG13	2:C:927:ASN:OD1	2.18	0.43
2:C:993:LEU:HA	2:C:994:PRO:HD3	1.93	0.43
2:C:1087:GLU:O	2:C:1091:ILE:HG12	2.18	0.43
3:D:797:ASN:HD22	3:D:798:PRO:HD2	1.82	0.43
3:D:900:GLU:O	3:D:958:THR:HB	2.18	0.43
3:D:912:ARG:HH21	3:D:953:LEU:HD22	1.82	0.43
3:D:931:ASP:OD1	3:D:932:GLU:HG3	2.17	0.43
5:F:445:VAL:CG1	5:F:447:ALA:H	2.30	0.43
6:J:31:ARG:O	6:J:65:ILE:HB	2.19	0.43
6:J:58:ASN:ND2	6:J:60:MET:HE3	2.32	0.43
1:A:26:LEU:HD12	1:A:191:LYS:N	2.33	0.43
1:A:45:SER:HB3	1:B:232:ILE:HD12	2.00	0.43
1:A:152:ASN:OD1	1:A:157:ALA:HB3	2.18	0.43
2:C:381:VAL:HG13	2:C:382:GLY:N	2.33	0.43
2:C:401:ARG:HA	2:C:404:MET:CB	2.47	0.43
2:C:519:VAL:HG12	2:C:577:ASP:C	2.43	0.43
2:C:1049:TYR:CA	2:C:1056:PRO:HA	2.47	0.43
3:D:397:ARG:CG	3:D:398:PRO:HD2	2.48	0.43
3:D:499:ASN:CG	3:D:509:ILE:HD11	2.44	0.43
3:D:512:PHE:CE1	3:D:561:SER:HB2	2.53	0.43
3:D:633:ILE:HG12	3:D:666:THR:O	2.19	0.43
3:D:1049:VAL:C	3:D:1107:VAL:HA	2.43	0.43
3:D:1052:ARG:HA	3:D:1103:ASP:O	2.18	0.43
3:D:1183:ARG:HG2	3:D:1187:GLU:OE2	2.18	0.43
3:D:1186:PHE:O	3:D:1190:ASN:ND2	2.51	0.43
3:D:1248:LEU:HA	3:D:1259:PRO:CD	2.48	0.43
3:D:1276:GLU:HA	3:D:1279:ARG:HB2	1.99	0.43
5:F:480:GLY:HA2	5:F:483:ASP:OD1	2.18	0.43
7:O:16:DT:H2"	7:O:17:DA:C8	2.54	0.43
2:C:89:VAL:O	2:C:92:GLU:HG2	2.18	0.43
2:C:175:VAL:HA	2:C:436:LEU:O	2.18	0.43
2:C:473:ARG:NH1	2:C:496:LEU:HG	2.33	0.43
2:C:1074:TRP:CZ2	3:D:878:VAL:HB	2.53	0.43
3:D:58:TRP:N	3:D:83:THR:O	2.49	0.43
3:D:118:LEU:O	3:D:232:LYS:HE2	2.18	0.43
3:D:334:ARG:HG2	3:D:334:ARG:HH11	1.83	0.43
3:D:557:ILE:HD13	4:E:53:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:887:ARG:NH1	3:D:972:THR:HB	2.33	0.43
4:E:60:ARG:HH22	4:E:80:GLY:HA3	1.82	0.43
5:F:487:ARG:HB3	5:F:491:GLU:CB	2.43	0.43
8:P:7:DA:H2''	8:P:8:DT:OP2	2.19	0.43
8:P:15:DC:H1'	8:P:16:DT:O5'	2.17	0.43
8:P:21:DT:H1'	8:P:22:DC:C5'	2.46	0.43
8:P:25:DG:H2''	8:P:26:DC:OP2	2.18	0.43
1:A:57:ASP:OD1	1:A:58:GLY:N	2.51	0.43
1:B:8:THR:O	1:B:23:ILE:HG23	2.17	0.43
1:B:9:LEU:HA	1:B:23:ILE:HG12	2.01	0.43
2:C:115:VAL:HG12	2:C:159:MET:HG3	1.99	0.43
2:C:308:LEU:O	2:C:331:SER:HB2	2.19	0.43
2:C:442:GLN:HE21	2:C:679:ASN:N	2.16	0.43
2:C:540:VAL:CG2	2:C:576:VAL:HG22	2.48	0.43
2:C:736:ILE:CD1	2:C:916:ILE:HD12	2.48	0.43
2:C:1049:TYR:CE2	2:C:1056:PRO:HG3	2.53	0.43
3:D:144:ARG:HH12	3:D:229:LEU:N	2.17	0.43
3:D:480:ARG:HB3	3:D:482:GLN:HE22	1.84	0.43
3:D:487:LEU:HG	3:D:491:ILE:CD1	2.48	0.43
3:D:596:THR:HG22	3:D:626:VAL:O	2.18	0.43
3:D:1033:GLU:HA	3:D:1036:GLU:CG	2.48	0.43
3:D:1055:LEU:HB3	3:D:1101:ASP:CA	2.48	0.43
3:D:1060:ARG:HG2	3:D:1061:PHE:HD1	1.82	0.43
3:D:1110:GLN:HG2	3:D:1112:MET:O	2.17	0.43
3:D:1137:GLU:O	3:D:1140:GLU:HB3	2.19	0.43
3:D:1267:TYR:O	4:E:55:ILE:HG21	2.18	0.43
5:F:258:TYR:CE2	6:J:98:LEU:HD22	2.53	0.43
5:F:276:ALA:HA	5:F:279:ARG:HE	1.81	0.43
5:F:305:SER:O	5:F:308:LYS:HG2	2.18	0.43
5:F:330:ARG:O	5:F:333:GLU:HB2	2.18	0.43
1:A:14:LEU:CG	1:A:19:SER:HA	2.49	0.43
1:A:26:LEU:HD12	1:A:190:ASP:C	2.43	0.43
1:A:176:TYR:CB	1:A:194:LEU:HA	2.48	0.43
1:B:21:PHE:CB	1:B:194:LEU:HB2	2.33	0.43
1:B:51:VAL:HA	1:B:140:VAL:CG2	2.47	0.43
1:B:149:ALA:HA	1:B:164:VAL:O	2.18	0.43
2:C:204:VAL:O	2:C:206:PRO:HD3	2.19	0.43
2:C:354:THR:HB	2:C:364:PRO:HA	2.01	0.43
2:C:673:ARG:H	2:C:686:GLN:CD	2.24	0.43
2:C:721:VAL:O	2:C:1025:VAL:HA	2.19	0.43
2:C:736:ILE:HD11	2:C:916:ILE:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:860:GLU:C	2:C:861:LEU:HD12	2.43	0.43
2:C:952:VAL:CG1	2:C:956:ALA:HB3	2.49	0.43
2:C:977:PHE:CZ	3:D:846:VAL:HG22	2.54	0.43
2:C:1079:TYR:O	3:D:558:LEU:HD23	2.19	0.43
3:D:127:LYS:HB3	3:D:132:ALA:HB3	2.00	0.43
3:D:166:ARG:HB2	3:D:212:ALA:CB	2.48	0.43
3:D:637:LEU:HA	3:D:637:LEU:HD23	1.81	0.43
3:D:706:MET:O	3:D:709:VAL:HB	2.18	0.43
3:D:759:GLN:HA	3:D:762:ARG:CG	2.48	0.43
5:F:262:LEU:HD23	5:F:266:LEU:HD13	2.00	0.43
5:F:387:LEU:HD12	5:F:392:ARG:C	2.43	0.43
8:P:10:DT:H4'	8:P:11:DA:OP1	2.18	0.43
1:A:24:GLU:HA	1:A:26:LEU:CD2	2.48	0.43
1:A:98:ARG:HD2	1:A:135:GLU:HG2	2.01	0.43
1:A:212:GLY:O	1:A:216:VAL:HG23	2.19	0.43
1:B:73:VAL:O	1:B:76:ILE:HB	2.19	0.43
1:B:102:PRO:HD3	1:B:131:LYS:H	1.83	0.43
2:C:622:GLU:HB3	2:C:717:LYS:CD	2.48	0.43
2:C:806:VAL:HG23	2:C:833:ARG:O	2.18	0.43
3:D:591:GLU:OE2	3:D:632:LYS:HB2	2.19	0.43
3:D:725:THR:OG1	3:D:726:ARG:NH1	2.50	0.43
3:D:824:VAL:CG1	3:D:851:ILE:HG22	2.48	0.43
3:D:1125:GLN:HB2	3:D:1129:GLU:HG2	2.00	0.43
3:D:1208:MET:HE3	3:D:1213:ALA:CB	2.46	0.43
5:F:415:GLN:O	5:F:418:ARG:CG	2.67	0.43
8:P:1:DA:H1'	8:P:2:DG:H5'	2.00	0.43
1:A:22:VAL:HG23	1:A:192:LEU:C	2.44	0.43
1:A:64:THR:O	1:A:73:VAL:HG23	2.18	0.43
1:A:172:LEU:HB2	1:A:199:LYS:CB	2.45	0.43
1:A:177:LYS:CG	1:A:193:ILE:HB	2.49	0.43
1:B:84:VAL:HG12	1:B:120:ASN:CG	2.44	0.43
1:B:102:PRO:HB3	1:B:130:ASP:HA	1.99	0.43
1:B:103:GLY:C	1:B:128:LEU:HB2	2.44	0.43
2:C:399:VAL:O	2:C:402:GLU:HB3	2.18	0.43
2:C:484:CYS:HB3	2:C:588:SER:HB3	1.99	0.43
2:C:628:THR:H	2:C:631:GLU:CD	2.20	0.43
2:C:907:LEU:HG	2:C:911:THR:O	2.19	0.43
3:D:69:ARG:CB	6:J:20:ARG:HH22	2.32	0.43
3:D:319:VAL:HG22	3:D:344:TYR:HE1	1.83	0.43
3:D:411:GLY:HA2	3:D:1228:GLU:N	2.33	0.43
3:D:666:THR:HG22	3:D:685:ASN:CG	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1065:THR:OG1	3:D:1076:VAL:HG13	2.19	0.43
3:D:1220:TRP:O	3:D:1223:ALA:HB3	2.19	0.43
3:D:1221:LEU:HD11	11:D:1404:C0L:C04	2.49	0.43
1:A:53:SER:HB2	1:A:163:PRO:HA	1.99	0.43
1:B:18:ARG:HA	1:B:197:GLU:HA	2.01	0.43
1:B:105:VAL:HB	1:B:126:ALA:HB3	2.00	0.43
2:C:414:PRO:C	2:C:417:LEU:H	2.27	0.43
2:C:463:LEU:O	2:C:463:LEU:HD12	2.19	0.43
2:C:476:HIS:HB3	2:C:479:HIS:CD2	2.53	0.43
2:C:646:GLU:OE1	2:C:662:HIS:HB3	2.19	0.43
2:C:853:PHE:HD2	2:C:868:LEU:HD12	1.83	0.43
3:D:127:LYS:CB	3:D:132:ALA:HB3	2.48	0.43
3:D:425:SER:OG	3:D:426:GLY:N	2.51	0.43
3:D:550:GLU:OE1	3:D:550:GLU:N	2.44	0.43
3:D:556:ARG:HH12	4:E:35:ILE:HD12	1.83	0.43
3:D:1086:LEU:HD23	3:D:1099:LEU:HB3	2.01	0.43
4:E:80:GLY:HA2	4:E:81:PRO:C	2.43	0.43
5:F:234:GLN:HA	5:F:237:LYS:HD2	2.01	0.43
5:F:241:LEU:CB	5:F:245:GLU:HG3	2.44	0.43
6:J:88:ARG:HG3	6:J:89:ARG:HG2	2.00	0.43
7:O:10:DA:H2"	7:O:11:DA:C8	2.54	0.43
1:A:14:LEU:H	1:A:19:SER:HA	1.84	0.42
2:C:189:GLU:N	2:C:189:GLU:OE1	2.52	0.42
2:C:691:ASP:HB2	2:C:694:ASP:CG	2.44	0.42
2:C:802:LEU:HD12	2:C:837:LEU:CG	2.38	0.42
2:C:1011:PHE:HD1	2:C:1018:PRO:HA	1.84	0.42
3:D:101:VAL:HG13	3:D:375:GLN:NE2	2.34	0.42
3:D:180:ASP:HB3	3:D:197:VAL:CG1	2.49	0.42
3:D:281:ILE:HG21	3:D:293:LEU:HD23	2.01	0.42
3:D:445:LYS:HA	3:D:516:LEU:CD2	2.45	0.42
3:D:487:LEU:HA	3:D:490:VAL:CG2	2.49	0.42
3:D:1068:PRO:HD3	3:D:1074:GLU:HG2	2.01	0.42
3:D:1268:ARG:HD2	3:D:1268:ARG:O	2.19	0.42
5:F:269:ARG:HD2	5:F:269:ARG:O	2.19	0.42
1:A:54:ILE:HD12	1:A:136:VAL:HG21	2.01	0.42
2:C:220:ASP:OD1	2:C:257:ILE:HG12	2.19	0.42
2:C:222:VAL:HB	2:C:224:VAL:CG2	2.49	0.42
2:C:274:LEU:CD1	2:C:292:ALA:HB1	2.49	0.42
2:C:587:VAL:HG22	2:C:591:THR:HB	2.01	0.42
2:C:651:GLU:HB3	2:C:659:THR:C	2.44	0.42
2:C:660:VAL:HG21	2:C:670:TYR:HE2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1131:LEU:HB2	2:C:1133:LEU:CD1	2.50	0.42
3:D:110:VAL:O	3:D:110:VAL:HG13	2.18	0.42
3:D:345:ARG:O	3:D:349:ASN:ND2	2.52	0.42
3:D:640:LEU:O	3:D:657:GLN:CG	2.46	0.42
3:D:797:ASN:HD21	3:D:799:ILE:HD12	1.84	0.42
3:D:822:GLY:O	3:D:835:PRO:HB2	2.19	0.42
5:F:258:TYR:HD1	6:J:82:TRP:HH2	1.67	0.42
5:F:386:LEU:CB	5:F:394:PRO:HG2	2.49	0.42
5:F:395:THR:O	5:F:399:LEU:HG	2.18	0.42
5:F:410:VAL:HA	5:F:413:ILE:HD12	2.01	0.42
6:J:85:LEU:O	6:J:89:ARG:N	2.52	0.42
6:J:91:ILE:O	6:J:94:LEU:HB2	2.19	0.42
1:A:24:GLU:OE1	1:A:191:LYS:HD2	2.19	0.42
1:A:43:LEU:HD21	2:C:901:VAL:CG1	2.48	0.42
1:A:104:GLU:HG3	1:A:124:HIS:CD2	2.53	0.42
1:A:161:ARG:O	1:A:162:ILE:HD13	2.18	0.42
1:A:213:LYS:HE2	1:B:223:ARG:NH2	2.34	0.42
1:B:18:ARG:HB2	1:B:197:GLU:HG3	2.01	0.42
1:B:32:TYR:CE1	2:C:1014:ARG:HD3	2.54	0.42
1:B:39:ARG:HD2	1:B:176:TYR:HE1	1.84	0.42
1:B:89:GLU:OE1	1:B:89:GLU:N	2.52	0.42
1:B:104:GLU:CA	1:B:128:LEU:HD13	2.49	0.42
1:B:106:THR:HA	1:B:125:ILE:N	2.33	0.42
1:B:134:LEU:HD21	1:B:136:VAL:CG2	2.49	0.42
2:C:122:CYS:HB3	2:C:127:MET:O	2.18	0.42
2:C:483:MET:HE3	2:C:498:GLY:CA	2.50	0.42
2:C:955:TRP:HA	2:C:958:ARG:NH1	2.32	0.42
2:C:1049:TYR:HA	2:C:1055:GLN:C	2.44	0.42
2:C:1050:SER:HB3	2:C:1053:THR:C	2.45	0.42
3:D:138:SER:OG	3:D:139:VAL:N	2.53	0.42
3:D:240:LEU:O	3:D:244:LEU:HB2	2.19	0.42
3:D:261:ILE:O	3:D:265:ILE:HG13	2.20	0.42
3:D:500:ARG:N	3:D:541:MET:HE3	2.34	0.42
3:D:1118:PRO:HA	3:D:1121:VAL:CG1	2.49	0.42
3:D:1157:ILE:HG22	3:D:1161:MET:CE	2.43	0.42
3:D:1220:TRP:CB	3:D:1241:ARG:HH21	2.28	0.42
3:D:1244:LYS:HB3	3:D:1246:ASN:ND2	2.34	0.42
5:F:329:ILE:O	5:F:332:VAL:HG12	2.20	0.42
5:F:442:SER:HB3	6:J:7:ARG:CD	2.36	0.42
5:F:493:GLY:O	5:F:497:GLY:N	2.52	0.42
5:F:507:GLU:HA	5:F:510:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:20:DT:C6	7:O:21:DT:H72	2.54	0.42
1:A:87:SER:OG	1:A:88:GLU:N	2.53	0.42
1:B:50:ALA:N	1:B:141:GLU:O	2.40	0.42
2:C:200:HIS:ND1	2:C:349:HIS:HB2	2.35	0.42
2:C:344:TYR:CE1	2:C:363:VAL:HG23	2.53	0.42
2:C:353:THR:C	2:C:365:VAL:H	2.27	0.42
2:C:600:ASP:OD1	2:C:928:ILE:N	2.53	0.42
2:C:714:ALA:O	2:C:715:LEU:HD23	2.19	0.42
2:C:741:LEU:O	2:C:745:ASP:N	2.53	0.42
3:D:87:VAL:O	3:D:90:GLU:N	2.37	0.42
3:D:445:LYS:O	3:D:449:LEU:HB2	2.19	0.42
3:D:453:LYS:HA	3:D:456:VAL:CG1	2.49	0.42
3:D:676:LEU:HD12	3:D:715:LYS:HB3	2.01	0.42
3:D:826:ASN:O	3:D:829:GLY:N	2.51	0.42
3:D:1077:TYR:O	3:D:1080:ILE:HD11	2.19	0.42
3:D:1156:VAL:O	3:D:1159:ARG:HB3	2.19	0.42
6:J:32:TYR:O	6:J:39:GLU:HA	2.19	0.42
2:C:278:TYR:CE1	2:C:282:ARG:CD	2.98	0.42
2:C:626:VAL:CG1	2:C:888:ARG:HH22	2.33	0.42
2:C:1072:GLU:O	2:C:1076:MET:HG3	2.20	0.42
3:D:212:ALA:CA	3:D:215:GLU:HG2	2.49	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C23	2.31	0.42
3:D:503:THR:HG21	3:D:508:GLY:HA3	2.00	0.42
3:D:797:ASN:O	3:D:801:THR:N	2.48	0.42
3:D:974:VAL:HG12	3:D:1159:ARG:HH12	1.84	0.42
3:D:1075:VAL:HG12	3:D:1077:TYR:CE2	2.54	0.42
3:D:1125:GLN:CB	3:D:1129:GLU:HG2	2.50	0.42
3:D:1198:GLY:O	3:D:1200:PRO:HD3	2.19	0.42
5:F:336:ASP:OD1	5:F:337:TYR:N	2.52	0.42
5:F:473:GLY:O	5:F:477:LEU:HG	2.19	0.42
7:O:22:DG:H2''	7:O:23:DT:O5'	2.20	0.42
1:A:105:VAL:HG12	1:A:125:ILE:CD1	2.46	0.42
1:B:120:ASN:N	1:B:121:PRO:HD3	2.35	0.42
3:D:169:GLU:OE1	3:D:208:ILE:HG23	2.20	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C16	2.32	0.42
3:D:596:THR:HB	3:D:628:SER:HB2	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HB3	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HA	2.01	0.42
3:D:725:THR:OG1	3:D:726:ARG:HD2	2.19	0.42
3:D:1061:PHE:CE2	3:D:1063:LYS:HE2	2.55	0.42
3:D:1064:ILE:HG22	3:D:1065:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1118:PRO:HA	3:D:1121:VAL:HG12	2.01	0.42
3:D:1251:ASN:HA	3:D:1254:ILE:CD1	2.49	0.42
7:O:12:DG:H2''	7:O:13:DT:C5'	2.49	0.42
8:P:21:DT:H2''	8:P:22:DC:OP2	2.19	0.42
1:A:46:ILE:CG2	1:A:170:PRO:HG2	2.46	0.42
1:A:104:GLU:HG3	1:A:124:HIS:HD2	1.84	0.42
1:A:177:LYS:HE3	1:A:193:ILE:HD12	2.01	0.42
1:B:34:LEU:HD12	1:B:35:GLY:N	2.35	0.42
1:B:86:SER:HB3	1:B:117:THR:CG2	2.50	0.42
2:C:255:SER:HB3	2:C:258:MET:CB	2.50	0.42
2:C:377:ARG:HA	2:C:511:PHE:CE1	2.55	0.42
2:C:453:ARG:NH2	2:C:500:LEU:HB2	2.34	0.42
2:C:560:LEU:HA	2:C:560:LEU:HD23	1.91	0.42
2:C:723:ILE:O	2:C:723:ILE:HG22	2.20	0.42
2:C:771:ARG:HG3	2:C:788:GLY:H	1.84	0.42
2:C:1112:ILE:HG23	2:C:1113:PRO:HD2	2.01	0.42
3:D:410:GLN:O	3:D:1228:GLU:N	2.53	0.42
3:D:599:TYR:HD1	3:D:610:GLY:HA3	1.84	0.42
3:D:1199:GLU:N	3:D:1199:GLU:OE1	2.53	0.42
4:E:101:ALA:HB1	4:E:103:LEU:HD13	2.01	0.42
1:A:218:LEU:O	1:A:221:LEU:HB3	2.20	0.42
1:B:3:ILE:HB	1:B:233:GLU:O	2.20	0.42
1:B:113:PRO:HD2	1:B:116:VAL:HG21	2.02	0.42
2:C:185:VAL:O	2:C:185:VAL:HG23	2.19	0.42
2:C:322:LEU:HD23	2:C:357:VAL:HG11	2.00	0.42
2:C:583:PRO:HB2	2:C:584:ARG:HE	1.84	0.42
2:C:796:VAL:HG22	2:C:845:GLY:O	2.19	0.42
2:C:875:GLN:HE21	2:C:877:ARG:HH21	1.68	0.42
2:C:1009:MET:O	2:C:1010:LEU:HD23	2.19	0.42
3:D:50:LYS:HG3	3:D:79:GLY:O	2.19	0.42
3:D:52:PHE:HB2	3:D:88:ARG:NH1	2.35	0.42
3:D:937:ILE:HD13	3:D:952:LEU:HD23	2.02	0.42
3:D:940:ARG:NH1	3:D:963:ARG:HH21	2.17	0.42
3:D:1079:LYS:HD3	3:D:1079:LYS:HA	1.89	0.42
3:D:1119:HIS:CE1	3:D:1207:LEU:HD12	2.55	0.42
6:J:76:LYS:H	6:J:76:LYS:HD3	1.83	0.42
7:O:5:DG:H1'	7:O:6:DA:C5'	2.50	0.42
1:B:1:MET:CB	1:B:232:ILE:HG12	2.49	0.42
1:B:7:PRO:CA	1:B:25:PRO:HD2	2.43	0.42
1:B:97:LEU:HD12	1:B:97:LEU:HA	1.79	0.42
2:C:515:PRO:HA	2:C:529:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:697:GLU:OE1	2:C:697:GLU:N	2.53	0.42
2:C:851:ARG:O	2:C:869:VAL:HA	2.20	0.42
2:C:862:PRO:O	2:C:865:VAL:HB	2.20	0.42
3:D:137:THR:HG22	3:D:253:THR:C	2.45	0.42
3:D:155:MET:CE	3:D:219:LEU:HB3	2.50	0.42
3:D:277:LEU:HD21	3:D:295:ARG:NH1	2.34	0.42
3:D:1120:GLU:O	3:D:1124:VAL:HG23	2.20	0.42
5:F:262:LEU:HA	5:F:265:GLU:HG2	2.00	0.42
5:F:345:THR:OG1	7:O:29:DA:H2'	2.19	0.42
6:J:65:ILE:HG23	6:J:66:GLU:HG2	2.01	0.42
8:P:6:DA:OP2	8:P:6:DA:H2'	2.19	0.42
1:A:14:LEU:N	1:A:19:SER:HA	2.35	0.42
1:B:164:VAL:HG23	1:B:165:ASP:O	2.20	0.42
1:B:172:LEU:HB2	1:B:197:GLU:O	2.20	0.42
1:B:192:LEU:HD12	1:B:193:ILE:N	2.34	0.42
2:C:70:TRP:HH2	2:C:83:VAL:N	2.18	0.42
2:C:254:PHE:HE2	2:C:347:ARG:HG2	1.84	0.42
2:C:413:THR:O	2:C:416:THR:N	2.53	0.42
2:C:419:ASN:HD21	2:C:421:ARG:CG	2.33	0.42
2:C:483:MET:HG3	2:C:499:SER:O	2.20	0.42
2:C:546:SER:O	2:C:548:ILE:N	2.52	0.42
2:C:635:ALA:O	2:C:638:ALA:HB3	2.20	0.42
2:C:792:ILE:HD12	2:C:792:ILE:H	1.84	0.42
2:C:961:ASP:C	2:C:962:GLU:HG3	2.44	0.42
3:D:83:THR:OG1	3:D:84:ARG:N	2.53	0.42
3:D:173:ARG:HD3	3:D:201:GLY:O	2.20	0.42
3:D:567:SER:HB3	3:D:570:SER:H	1.85	0.42
3:D:1062:TYR:C	3:D:1080:ILE:HB	2.45	0.42
3:D:1066:ILE:N	3:D:1075:VAL:O	2.37	0.42
3:D:1234:THR:HG23	3:D:1235:ASP:N	2.35	0.42
5:F:231:TYR:O	5:F:235:ILE:HG23	2.20	0.42
5:F:244:GLU:HA	5:F:247:VAL:CG2	2.49	0.42
1:A:38:LEU:O	1:A:42:LEU:HG	2.19	0.41
1:A:146:TYR:CE1	1:A:165:ASP:HB3	2.55	0.41
1:A:223:ARG:HG3	1:B:212:GLY:C	2.45	0.41
1:B:85:VAL:CB	1:B:118:VAL:HA	2.49	0.41
1:B:102:PRO:CD	1:B:131:LYS:H	2.33	0.41
1:B:177:LYS:O	1:B:192:LEU:HD12	2.20	0.41
1:B:192:LEU:HD12	1:B:193:ILE:H	1.84	0.41
2:C:88:GLU:CD	2:C:386:GLN:HE22	2.29	0.41
2:C:395:ARG:HA	2:C:398:ARG:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:558:ARG:HH21	2:C:570:TYR:HB2	1.84	0.41
2:C:683:CYS:HA	2:C:752:ILE:CD1	2.50	0.41
2:C:854:SER:O	2:C:859:ASP:HB2	2.19	0.41
3:D:169:GLU:O	3:D:208:ILE:HD13	2.19	0.41
3:D:497:LEU:HB3	3:D:509:ILE:HG21	2.03	0.41
3:D:847:LEU:HD12	3:D:847:LEU:N	2.35	0.41
3:D:901:LEU:HB3	3:D:958:THR:HA	2.02	0.41
3:D:930:VAL:CA	3:D:936:VAL:HA	2.38	0.41
3:D:1046:ILE:HG22	3:D:1110:GLN:HA	2.03	0.41
3:D:1053:VAL:HG13	3:D:1101:ASP:HA	2.02	0.41
3:D:1168:ILE:N	3:D:1202:ALA:O	2.51	0.41
3:D:1251:ASN:HA	3:D:1254:ILE:HD11	2.02	0.41
5:F:446:VAL:O	5:F:446:VAL:HG12	2.19	0.41
1:A:14:LEU:CD2	1:A:20:GLN:HG3	2.50	0.41
1:B:106:THR:HA	1:B:125:ILE:H	1.85	0.41
2:C:94:SER:OG	2:C:95:PRO:HA	2.20	0.41
2:C:395:ARG:O	2:C:398:ARG:HG3	2.20	0.41
2:C:470:LEU:HD21	3:D:861:ALA:HB1	2.02	0.41
2:C:556:GLU:HB2	2:C:557:PRO:HD2	2.02	0.41
2:C:740:ARG:HG2	2:C:744:GLU:CD	2.45	0.41
2:C:789:ILE:CG2	2:C:803:VAL:HG13	2.50	0.41
3:D:302:PHE:HA	3:D:305:SER:OG	2.20	0.41
3:D:587:TYR:O	3:D:590:THR:HG22	2.20	0.41
3:D:866:ARG:HH11	3:D:1011:THR:HA	1.82	0.41
3:D:1062:TYR:O	3:D:1080:ILE:HB	2.21	0.41
3:D:1062:TYR:CB	3:D:1080:ILE:HB	2.46	0.41
3:D:1086:LEU:HD23	3:D:1099:LEU:CB	2.50	0.41
5:F:264:THR:HA	5:F:267:SER:CB	2.45	0.41
5:F:318:LEU:O	5:F:321:ILE:HB	2.20	0.41
5:F:522:VAL:HG23	5:F:523:LEU:HD23	2.01	0.41
8:P:4:DA:H3'	8:P:4:DA:OP1	2.20	0.41
1:A:203:SER:OG	1:A:205:ARG:HG3	2.20	0.41
2:C:152:VAL:HG21	2:C:418:ILE:HD13	2.03	0.41
2:C:298:ASN:HD22	2:C:302:LYS:CE	2.33	0.41
2:C:447:SER:OG	2:C:613:ARG:HB2	2.20	0.41
2:C:532:THR:HG22	2:C:535:GLU:OE2	2.20	0.41
2:C:762:THR:HG23	2:C:765:GLY:N	2.35	0.41
3:D:33:THR:HG21	5:F:365:THR:HG22	2.02	0.41
3:D:148:LEU:HA	3:D:151:LEU:HB2	2.02	0.41
3:D:496:VAL:HG22	3:D:512:PHE:O	2.20	0.41
3:D:1055:LEU:HB3	3:D:1101:ASP:CG	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LEU:HD23	1:A:195:ASP:N	2.35	0.41
1:B:6:ARG:NH1	1:B:234:ILE:HG22	2.35	0.41
1:B:15:THR:HG23	1:B:18:ARG:HB3	2.03	0.41
1:B:75:GLU:HG3	1:B:79:ASN:HD21	1.86	0.41
1:B:84:VAL:HG13	1:B:84:VAL:O	2.20	0.41
1:B:87:SER:O	1:B:142:ARG:NH1	2.53	0.41
2:C:271:ASP:HA	2:C:274:LEU:HB2	2.02	0.41
2:C:290:GLU:OE1	2:C:290:GLU:N	2.39	0.41
2:C:407:GLN:HG3	2:C:417:LEU:HD21	2.00	0.41
2:C:728:GLY:O	2:C:731:TYR:HB2	2.19	0.41
2:C:854:SER:HB3	2:C:857:ASP:CG	2.45	0.41
2:C:891:ASN:OD1	2:C:891:ASN:N	2.53	0.41
2:C:1111:ASN:ND2	4:E:66:ASP:OD1	2.50	0.41
3:D:69:ARG:NH1	6:J:25:ALA:HB2	2.36	0.41
3:D:129:ILE:HG13	3:D:130:TYR:N	2.35	0.41
3:D:364:GLU:CD	3:D:367:VAL:HB	2.45	0.41
3:D:800:ILE:HG12	3:D:804:ASP:OD2	2.20	0.41
3:D:1251:ASN:CA	3:D:1254:ILE:HG12	2.50	0.41
3:D:1275:THR:HG22	4:E:103:LEU:C	2.45	0.41
5:F:328:LEU:O	5:F:332:VAL:HG12	2.20	0.41
5:F:448:VAL:O	5:F:451:VAL:HG12	2.21	0.41
1:A:36:ASN:HD22	2:C:1016:GLY:N	2.19	0.41
1:A:151:GLN:NE2	2:C:795:GLU:OE2	2.40	0.41
1:B:60:LEU:HD23	1:B:159:ILE:HD13	2.03	0.41
1:B:134:LEU:CG	1:B:136:VAL:HG23	2.50	0.41
2:C:50:VAL:HA	2:C:51:PRO:HD3	1.90	0.41
2:C:273:ALA:O	2:C:277:ILE:HG12	2.20	0.41
2:C:278:TYR:CD1	2:C:282:ARG:HD2	2.55	0.41
2:C:541:VAL:O	2:C:561:VAL:HG23	2.20	0.41
2:C:1094:ASP:HB3	2:C:1119:GLU:CB	2.51	0.41
3:D:104:ILE:O	3:D:108:LYS:N	2.38	0.41
3:D:270:ILE:CD1	3:D:303:GLN:HA	2.50	0.41
3:D:350:ARG:HH11	3:D:377:SER:HB3	1.83	0.41
3:D:601:PRO:HA	3:D:608:GLU:CG	2.51	0.41
3:D:742:LYS:HZ1	3:D:820:MET:HB2	1.84	0.41
3:D:803:VAL:C	3:D:806:GLY:H	2.29	0.41
3:D:822:GLY:O	3:D:836:VAL:HB	2.19	0.41
3:D:1030:ARG:CZ	3:D:1034:LEU:HD21	2.50	0.41
3:D:1055:LEU:CB	3:D:1101:ASP:HA	2.50	0.41
3:D:1231:ARG:HA	3:D:1234:THR:CG2	2.50	0.41
5:F:242:ASN:H	5:F:245:GLU:CG	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:382:ILE:HD13	5:F:385:GLU:OE1	2.21	0.41
2:C:126:ASP:O	2:C:169:ASN:HA	2.21	0.41
2:C:455:LEU:HD21	2:C:500:LEU:HD21	2.01	0.41
2:C:1055:GLN:HA	2:C:1056:PRO:HD3	1.95	0.41
2:C:1089:LEU:HA	2:C:1089:LEU:HD23	1.80	0.41
3:D:35:ASN:O	3:D:39:LEU:HA	2.20	0.41
3:D:159:ARG:HD2	3:D:220:GLU:OE2	2.20	0.41
3:D:438:LEU:HG	3:D:561:SER:OG	2.21	0.41
3:D:605:ASP:OD1	3:D:605:ASP:N	2.51	0.41
3:D:624:ARG:HG2	3:D:625:GLY:N	2.35	0.41
3:D:923:ARG:HH21	3:D:1150:HIS:CE1	2.39	0.41
3:D:1027:GLY:O	3:D:1031:VAL:HG23	2.20	0.41
3:D:1052:ARG:HG2	3:D:1067:VAL:HG11	2.02	0.41
3:D:1063:LYS:CD	3:D:1078:ASP:HA	2.41	0.41
5:F:234:GLN:HA	5:F:237:LYS:CD	2.51	0.41
5:F:368:ILE:HG23	5:F:369:PRO:HD2	2.03	0.41
6:J:105:ILE:HG13	6:J:108:ARG:NH2	2.36	0.41
8:P:11:DA:H1'	8:P:12:DA:O5'	2.20	0.41
1:A:56:ILE:HG12	1:A:135:GLU:O	2.21	0.41
1:A:198:THR:HG21	1:A:203:SER:C	2.46	0.41
1:A:223:ARG:CD	1:B:213:LYS:HA	2.50	0.41
1:B:68:GLY:O	1:B:129:ASN:N	2.40	0.41
2:C:178:GLN:HA	2:C:456:SER:O	2.21	0.41
2:C:234:VAL:O	2:C:238:LEU:HD23	2.21	0.41
2:C:239:LYS:NZ	2:C:268:VAL:HG13	2.36	0.41
2:C:347:ARG:NE	2:C:355:MET:HB2	2.36	0.41
2:C:532:THR:HG22	2:C:535:GLU:HG2	2.03	0.41
2:C:589:VAL:O	2:C:592:ALA:HB3	2.21	0.41
2:C:612:GLN:CB	2:C:1031:MET:HE1	2.50	0.41
2:C:654:SER:N	2:C:657:TYR:O	2.53	0.41
2:C:805:LYS:HD3	2:C:835:THR:OG1	2.20	0.41
2:C:860:GLU:O	2:C:861:LEU:HD12	2.21	0.41
2:C:889:HIS:HB2	2:C:891:ASN:ND2	2.35	0.41
2:C:899:LEU:HD13	2:C:899:LEU:HA	1.85	0.41
3:D:107:PHE:HZ	3:D:126:GLU:HB2	1.85	0.41
3:D:118:LEU:HD23	3:D:118:LEU:HA	1.83	0.41
3:D:445:LYS:CA	3:D:516:LEU:HD22	2.47	0.41
3:D:480:ARG:HA	3:D:481:PRO:HD3	1.95	0.41
3:D:503:THR:CG2	3:D:508:GLY:HA3	2.51	0.41
3:D:665:GLU:O	3:D:665:GLU:HG3	2.21	0.41
5:F:245:GLU:O	5:F:249:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:502:ARG:HA	5:F:502:ARG:HD2	1.83	0.41
1:A:47:PRO:HG3	1:B:230:GLU:HG2	2.03	0.41
2:C:148:LYS:HB3	2:C:414:PRO:HD3	2.03	0.41
2:C:223:GLY:CA	2:C:231:ARG:HH22	2.34	0.41
2:C:290:GLU:O	2:C:294:THR:OG1	2.35	0.41
2:C:436:LEU:HD11	2:C:460:PRO:HD2	2.03	0.41
2:C:524:VAL:HG23	2:C:554:PHE:CZ	2.56	0.41
2:C:586:MET:HE1	3:D:850:PHE:HD1	1.84	0.41
2:C:689:ILE:CG2	2:C:704:ASP:H	2.34	0.41
2:C:1007:LYS:HB2	2:C:1022:PRO:HB2	2.02	0.41
2:C:1043:ALA:HA	3:D:426:GLY:CA	2.49	0.41
2:C:1071:MET:SD	3:D:502:PRO:CA	3.09	0.41
3:D:10:LEU:HB3	3:D:1245:LEU:HD21	2.03	0.41
3:D:61:TYR:CB	3:D:78:CYS:HB2	2.50	0.41
3:D:84:ARG:HG2	3:D:86:LYS:HG2	2.03	0.41
3:D:108:LYS:O	3:D:108:LYS:HG3	2.20	0.41
3:D:432:VAL:HG22	3:D:434:PRO:HD3	2.03	0.41
3:D:451:LEU:HD13	3:D:451:LEU:HA	1.89	0.41
3:D:822:GLY:O	3:D:836:VAL:N	2.54	0.41
3:D:1051:GLY:C	3:D:1104:HIS:HA	2.46	0.41
3:D:1140:GLU:HA	3:D:1143:ARG:HD2	2.01	0.41
3:D:1162:LEU:HD23	3:D:1162:LEU:HA	1.86	0.41
4:E:38:PRO:HB2	4:E:39:PRO:HD2	2.03	0.41
4:E:40:ILE:HA	4:E:43:LEU:HB2	2.02	0.41
5:F:342:LYS:HG3	5:F:344:SER:H	1.86	0.41
5:F:382:ILE:HA	5:F:385:GLU:CD	2.45	0.41
5:F:451:VAL:O	5:F:455:LEU:HD23	2.21	0.41
6:J:58:ASN:ND2	6:J:60:MET:HG2	2.36	0.41
7:O:15:DT:H2''	7:O:16:DT:C6	2.56	0.41
1:A:14:LEU:HD21	1:A:20:GLN:CG	2.50	0.41
1:A:34:LEU:O	1:A:34:LEU:HD13	2.20	0.41
1:A:83:LEU:HA	1:A:123:MET:SD	2.61	0.41
1:A:89:GLU:OE2	1:A:93:VAL:HG11	2.20	0.41
1:A:98:ARG:HG3	1:A:135:GLU:HG2	2.03	0.41
1:A:205:ARG:HH21	1:B:225:LEU:C	2.29	0.41
1:B:53:SER:HB2	1:B:162:ILE:O	2.21	0.41
1:B:69:VAL:O	1:B:129:ASN:ND2	2.51	0.41
1:B:82:SER:O	1:B:123:MET:HE1	2.21	0.41
1:B:86:SER:O	1:B:116:VAL:HA	2.21	0.41
2:C:98:ASP:OD1	2:C:98:ASP:N	2.52	0.41
2:C:229:LYS:HD3	2:C:229:LYS:HA	1.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:238:LEU:HD12	2:C:243:TRP:CG	2.56	0.41
2:C:403:ARG:O	2:C:407:GLN:HG2	2.21	0.41
2:C:476:HIS:HD2	2:C:478:SER:OG	2.04	0.41
2:C:749:SER:OG	2:C:877:ARG:HB2	2.20	0.41
2:C:764:LEU:CB	2:C:808:PRO:HG2	2.51	0.41
2:C:851:ARG:O	2:C:870:ARG:N	2.36	0.41
2:C:934:THR:HG22	2:C:1026:GLY:HA3	2.03	0.41
2:C:956:ALA:HA	2:C:959:LEU:CG	2.51	0.41
2:C:958:ARG:HD3	2:C:958:ARG:N	2.33	0.41
2:C:1048:PRO:O	2:C:1057:LEU:N	2.45	0.41
2:C:1076:MET:HE1	2:C:1084:THR:HB	2.03	0.41
3:D:74:ILE:HG23	3:D:80:VAL:N	2.36	0.41
3:D:334:ARG:CD	5:F:418:ARG:HB3	2.38	0.41
3:D:354:LEU:HD22	3:D:370:GLU:HG3	2.03	0.41
3:D:525:HIS:HE1	3:D:527:LEU:HD12	1.85	0.41
3:D:546:PRO:O	3:D:547:LEU:HD23	2.20	0.41
3:D:611:VAL:HA	3:D:634:LYS:O	2.21	0.41
3:D:656:TRP:C	3:D:658:PRO:HD2	2.46	0.41
3:D:749:TYR:CZ	3:D:781:ALA:HA	2.56	0.41
3:D:898:VAL:HA	3:D:960:VAL:C	2.46	0.41
3:D:1045:PRO:HB2	3:D:1111:LEU:CD2	2.47	0.41
3:D:1169:ASP:CB	3:D:1202:ALA:HB3	2.50	0.41
3:D:1191:ARG:NE	3:D:1191:ARG:HA	2.36	0.41
3:D:1217:THR:OG1	3:D:1218:ASP:N	2.54	0.41
5:F:242:ASN:ND2	5:F:244:GLU:OE2	2.54	0.41
5:F:337:TYR:O	5:F:340:GLY:N	2.39	0.41
5:F:347:ALA:HB1	5:F:351:ILE:HD11	2.02	0.41
5:F:498:VAL:CG2	5:F:503:ILE:HD11	2.51	0.41
7:O:9:DA:H1'	7:O:10:DA:C5'	2.48	0.41
1:A:221:LEU:HD12	1:A:225:LEU:HD21	2.03	0.41
1:B:1:MET:HB2	1:B:232:ILE:CA	2.45	0.41
1:B:18:ARG:HD2	1:B:197:GLU:OE1	2.21	0.41
1:B:29:GLY:HA2	1:B:190:ASP:OD2	2.21	0.41
1:B:94:THR:C	1:B:95:MET:HG3	2.45	0.41
2:C:70:TRP:HA	2:C:73:SER:HB2	2.03	0.41
2:C:199:LEU:HD22	2:C:216:VAL:O	2.21	0.41
2:C:236:VAL:O	2:C:240:ALA:HB2	2.21	0.41
2:C:516:TYR:CD2	2:C:531:LEU:HD12	2.56	0.41
2:C:621:SER:O	2:C:709:ASP:HB2	2.21	0.41
2:C:653:VAL:HA	2:C:658:ILE:HA	2.02	0.41
2:C:720:LEU:HD12	2:C:1026:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:LEU:HB3	2:C:808:PRO:HG2	2.03	0.41
2:C:776:ILE:HG13	2:C:780:VAL:CG2	2.51	0.41
2:C:851:ARG:HD2	2:C:851:ARG:HA	1.91	0.41
2:C:924:ARG:HH22	2:C:925:ARG:HH11	1.69	0.41
2:C:942:SER:O	2:C:968:PRO:HB3	2.21	0.41
2:C:961:ASP:C	2:C:963:LEU:H	2.29	0.41
2:C:1072:GLU:HG2	3:D:509:ILE:CG1	2.51	0.41
3:D:354:LEU:HD13	3:D:370:GLU:CB	2.48	0.41
3:D:820:MET:HG3	3:D:837:LYS:CA	2.51	0.41
3:D:876:ARG:HD2	3:D:1211:THR:HG22	2.02	0.41
3:D:1039:VAL:HG23	3:D:1039:VAL:O	2.20	0.41
3:D:1174:GLU:HG3	3:D:1174:GLU:O	2.21	0.41
3:D:1275:THR:HA	4:E:105:GLU:CD	2.46	0.41
5:F:515:ARG:CZ	5:F:515:ARG:HB2	2.50	0.41
8:P:4:DA:H2''	8:P:5:DC:O5'	2.21	0.41
8:P:22:DC:H2''	8:P:23:DA:OP2	2.21	0.41
1:A:53:SER:O	1:A:139:VAL:HB	2.21	0.40
1:A:55:ARG:CD	1:A:160:GLY:HA3	2.51	0.40
1:A:95:MET:O	1:A:138:LEU:N	2.54	0.40
1:A:96:TYR:O	1:A:111:VAL:HG12	2.21	0.40
1:A:96:TYR:CD1	1:A:137:GLU:HA	2.56	0.40
1:A:148:PRO:HA	1:A:165:ASP:OD1	2.21	0.40
1:B:106:THR:CA	1:B:125:ILE:HG22	2.50	0.40
2:C:40:SER:HB2	2:C:973:SER:OG	2.21	0.40
2:C:212:LEU:HB2	2:C:226:ILE:HG13	2.00	0.40
2:C:349:HIS:ND1	2:C:349:HIS:O	2.54	0.40
2:C:489:PRO:O	2:C:494:ILE:HG12	2.21	0.40
2:C:633:ARG:C	2:C:636:ILE:HG12	2.46	0.40
2:C:798:ASP:HA	2:C:839:VAL:HG13	2.03	0.40
2:C:1042:HIS:O	3:D:427:ARG:N	2.52	0.40
3:D:18:GLU:HA	3:D:21:ARG:CG	2.50	0.40
3:D:129:ILE:HG13	3:D:130:TYR:CD2	2.56	0.40
3:D:797:ASN:HD22	3:D:798:PRO:CD	2.34	0.40
3:D:1065:THR:HG21	3:D:1076:VAL:HG22	2.03	0.40
3:D:1172:SER:N	3:D:1199:GLU:HG3	2.36	0.40
3:D:1211:THR:O	3:D:1214:SER:OG	2.34	0.40
5:F:513:LYS:HD2	5:F:516:HIS:HE1	1.86	0.40
6:J:32:TYR:HD1	6:J:64:LEU:HA	1.83	0.40
6:J:42:VAL:HB	6:J:44:PHE:CE2	2.57	0.40
6:J:55:LEU:HD11	6:J:59:GLY:O	2.20	0.40
8:P:14:DA:H2''	8:P:15:DC:OP2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:15:DC:H2''	8:P:16:DT:OP2	2.20	0.40
1:A:107:ALA:N	1:A:123:MET:O	2.55	0.40
1:A:118:VAL:HG12	1:A:119:HIS:N	2.36	0.40
2:C:179:LEU:HD23	2:C:179:LEU:HA	1.94	0.40
2:C:208:ARG:HH12	2:C:304:LYS:C	2.30	0.40
2:C:627:GLY:H	2:C:973:SER:HA	1.86	0.40
2:C:754:GLU:OE2	2:C:870:ARG:HD2	2.21	0.40
2:C:906:PHE:CB	2:C:912:PRO:HA	2.51	0.40
3:D:207:GLN:HE21	3:D:211:ARG:NE	2.20	0.40
3:D:229:LEU:HA	3:D:229:LEU:HD12	1.87	0.40
3:D:524:LEU:HG	3:D:525:HIS:O	2.21	0.40
3:D:1036:GLU:HB2	3:D:1038:ARG:HG2	2.04	0.40
5:F:234:GLN:HA	5:F:237:LYS:HE3	2.00	0.40
5:F:358:ALA:HA	5:F:361:ASP:HB2	2.02	0.40
1:A:7:PRO:HA	1:A:25:PRO:CD	2.33	0.40
1:A:95:MET:HB3	1:A:113:PRO:CD	2.50	0.40
1:B:3:ILE:CG1	1:B:234:ILE:HA	2.51	0.40
1:B:104:GLU:HG2	1:B:127:THR:CB	2.52	0.40
2:C:116:LYS:NZ	2:C:130:ALA:HB3	2.36	0.40
2:C:180:VAL:O	2:C:377:ARG:HG2	2.22	0.40
2:C:353:THR:O	2:C:364:PRO:HA	2.21	0.40
2:C:357:VAL:HG22	2:C:358:PRO:HD2	2.02	0.40
2:C:455:LEU:N	2:C:498:GLY:O	2.46	0.40
2:C:802:LEU:HB2	2:C:837:LEU:CG	2.51	0.40
2:C:1095:ASP:OD2	2:C:1098:GLY:HA3	2.21	0.40
3:D:24:SER:OG	3:D:93:GLY:HA2	2.21	0.40
3:D:27:GLU:HG3	3:D:94:HIS:O	2.21	0.40
3:D:329:GLN:HA	3:D:335:PHE:CB	2.51	0.40
3:D:1278:ALA:O	3:D:1281:ALA:HB3	2.21	0.40
5:F:339:LYS:HB3	5:F:341:TYR:HE2	1.84	0.40
5:F:440:GLU:CA	6:J:7:ARG:HA	2.51	0.40
1:A:45:SER:HA	1:A:144:ARG:HH11	1.85	0.40
2:C:161:THR:HG23	2:C:165:THR:C	2.45	0.40
2:C:347:ARG:HG2	2:C:350:GLU:OE1	2.21	0.40
2:C:413:THR:CG2	2:C:416:THR:H	2.34	0.40
2:C:731:TYR:OH	3:D:578:ARG:HD3	2.21	0.40
2:C:739:ASN:N	2:C:899:LEU:O	2.53	0.40
3:D:95:ILE:HB	3:D:317:VAL:HB	2.02	0.40
3:D:816:THR:HG22	3:D:821:LYS:CD	2.52	0.40
5:F:415:GLN:HG2	5:F:418:ARG:CD	2.52	0.40
5:F:447:ALA:O	5:F:449:ASP:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:501:GLU:CD	8:P:22:DC:H41	2.29	0.40
7:O:12:DG:H2''	7:O:13:DT:O5'	2.21	0.40
7:O:27:DA:H2'	7:O:27:DA:OP2	2.21	0.40
8:P:2:DG:H2''	8:P:3:DC:O5'	2.20	0.40
8:P:20:DG:H1'	8:P:21:DT:O5'	2.22	0.40
1:B:48:GLY:HA3	1:B:168:TYR:O	2.22	0.40
2:C:447:SER:HB2	2:C:613:ARG:HB2	2.04	0.40
2:C:456:SER:HB2	2:C:497:ILE:HG12	2.04	0.40
2:C:514:THR:HG23	2:C:515:PRO:HD2	2.02	0.40
2:C:649:VAL:O	2:C:661:MET:HB3	2.21	0.40
2:C:1067:ARG:HG3	3:D:421:ARG:CA	2.52	0.40
2:C:1086:GLN:HG3	3:D:1255:GLY:O	2.21	0.40
3:D:41:PRO:HB3	3:D:47:PHE:HB2	2.04	0.40
3:D:194:ARG:O	3:D:198:ARG:HG3	2.22	0.40
3:D:314:LEU:HD11	3:D:316:ALA:O	2.21	0.40
3:D:497:LEU:HB2	3:D:544:HIS:HB2	2.03	0.40
3:D:577:PRO:HB3	3:D:581:MET:SD	2.61	0.40
3:D:736:VAL:O	3:D:841:ARG:NE	2.54	0.40
5:F:255:ALA:CB	6:J:101:ARG:HG3	2.52	0.40
6:J:10:ARG:HD2	6:J:10:ARG:N	2.36	0.40
8:P:9:DT:H2''	8:P:10:DT:C6	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	223/347 (64%)	192 (86%)	31 (14%)	0	100	100
1	B	235/347 (68%)	199 (85%)	36 (15%)	0	100	100
2	C	1109/1179 (94%)	959 (86%)	146 (13%)	4 (0%)	30	67
3	D	1260/1326 (95%)	1109 (88%)	150 (12%)	1 (0%)	48	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	E	81/110 (74%)	72 (89%)	9 (11%)	0	100	100
5	F	317/531 (60%)	291 (92%)	24 (8%)	2 (1%)	22	59
6	J	106/111 (96%)	91 (86%)	14 (13%)	1 (1%)	14	50
All	All	3331/3951 (84%)	2913 (88%)	410 (12%)	8 (0%)	45	78

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	231	ARG
2	C	1074	TRP
3	D	422	VAL
5	F	224	SER
5	F	447	ALA
2	C	230	ARG
2	C	1068	PHE
6	J	108	ARG

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 PDB entries followed by that with respect to all EM entries.

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	194/297 (65%)	194 (100%)	0	100	100
1	B	194/297 (65%)	194 (100%)	0	100	100
2	C	933/997 (94%)	930 (100%)	3 (0%)	91	92
3	D	1042/1103 (94%)	1039 (100%)	3 (0%)	91	92
4	E	69/89 (78%)	69 (100%)	0	100	100
5	F	264/429 (62%)	264 (100%)	0	100	100
6	J	93/97 (96%)	93 (100%)	0	100	100
All	All	2789/3309 (84%)	2783 (100%)	6 (0%)	91	94

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	229	LYS
2	C	231	ARG
2	C	282	ARG
3	D	417	LEU
3	D	422	VAL
3	D	657	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (54) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	20	GLN
1	A	36	ASN
1	A	79	ASN
1	A	124	HIS
1	B	20	GLN
1	B	61	HIS
1	B	79	ASN
1	B	124	HIS
1	B	226	ASN
2	C	81	ASN
2	C	141	ASN
2	C	150	GLN
2	C	293	GLN
2	C	298	ASN
2	C	386	GLN
2	C	387	ASN
2	C	419	ASN
2	C	435	GLN
2	C	442	GLN
2	C	476	HIS
2	C	479	HIS
2	C	729	HIS
2	C	841	HIS
2	C	875	GLN
2	C	920	HIS
2	C	981	GLN
2	C	1034	HIS
2	C	1054	GLN
2	C	1055	GLN
3	D	5	ASN
3	D	22	GLN
3	D	207	GLN

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Mol	Chain	Res	Type
3	D	239	ASN
3	D	307	ASN
3	D	352	ASN
3	D	465	HIS
3	D	494	HIS
3	D	523	GLN
3	D	748	HIS
3	D	771	ASN
3	D	792	HIS
3	D	797	ASN
3	D	1145	GLN
3	D	1227	GLN
3	D	1269	ASN
4	E	65	ASN
5	F	294	HIS
5	F	322	GLN
5	F	325	ASN
5	F	353	GLN
5	F	377	ASN
5	F	516	HIS
6	J	58	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
11	C0L	D	1404	-	37,38,38	2.65	13 (35%)	37,49,49	2.80	12 (32%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	C0L	D	1404	-	-	20/38/57/57	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	D	1404	C0L	O24-C23	8.84	1.39	1.21
11	D	1404	C0L	O19-C18	5.67	1.39	1.24
11	D	1404	C0L	C17-C16	4.85	1.50	1.39
11	D	1404	C0L	O36-C16	-4.55	1.18	1.33
11	D	1404	C0L	C17-C18	-4.20	1.35	1.45
11	D	1404	C0L	C13-C12	3.91	1.56	1.42
11	D	1404	C0L	C20-C18	-3.79	1.34	1.44
11	D	1404	C0L	C32-N31	3.58	1.43	1.37
11	D	1404	C0L	O34-C35	-3.21	1.38	1.45
11	D	1404	C0L	C17-C23	-2.65	1.38	1.45
11	D	1404	C0L	O34-C32	2.62	1.38	1.34
11	D	1404	C0L	O38-C08	-2.22	1.38	1.42
11	D	1404	C0L	O22-C23	-2.12	1.35	1.39

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	D	1404	C0L	O34-C32-N31	9.70	120.31	109.15
11	D	1404	C0L	C35-O34-C32	-6.28	108.37	115.63
11	D	1404	C0L	O22-C21-C25	5.51	116.19	111.35
11	D	1404	C0L	O36-C16-C17	4.93	128.88	120.03
11	D	1404	C0L	C23-C17-C18	4.44	121.99	119.41
11	D	1404	C0L	O33-C32-N31	-4.34	119.36	125.44
11	D	1404	C0L	C12-C13-C14	-2.97	122.14	126.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	D	1404	C0L	O34-C32-O33	-2.95	120.33	124.62
11	D	1404	C0L	C28-C27-C25	-2.79	109.26	114.40
11	D	1404	C0L	O19-C18-C17	-2.63	119.31	123.08
11	D	1404	C0L	O22-C23-O24	2.12	119.07	115.24
11	D	1404	C0L	C15-C14-C16	2.08	121.01	115.36

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	D	1404	C0L	C13-C14-C16-O36
11	D	1404	C0L	C15-C14-C16-O36
11	D	1404	C0L	C14-C16-C17-C18
11	D	1404	C0L	C14-C16-C17-C23
11	D	1404	C0L	O36-C16-C17-C18
11	D	1404	C0L	O36-C16-C17-C23
11	D	1404	C0L	C20-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C27
11	D	1404	C0L	N31-C32-O34-C35
11	D	1404	C0L	O33-C32-O34-C35
11	D	1404	C0L	O34-C32-N31-C30
11	D	1404	C0L	C05-C06-C08-C09
11	D	1404	C0L	C07-C06-C08-C09
11	D	1404	C0L	O33-C32-N31-C30
11	D	1404	C0L	C07-C06-C08-O38
11	D	1404	C0L	C06-C08-C09-C10
11	D	1404	C0L	C02-C03-C04-C05
11	D	1404	C0L	C27-C28-C29-C30
11	D	1404	C0L	C05-C06-C08-O38

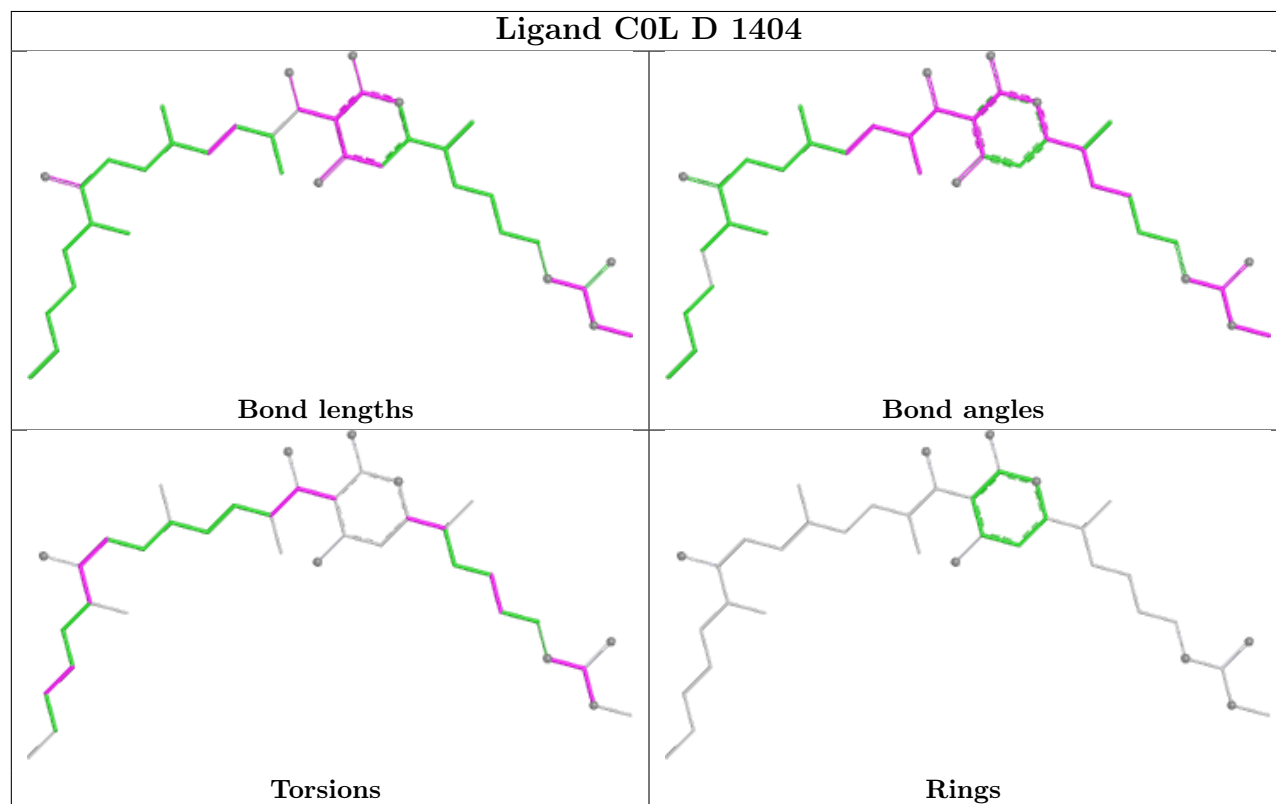
There are no ring outliers.

1 monomer is involved in 22 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	D	1404	C0L	22	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

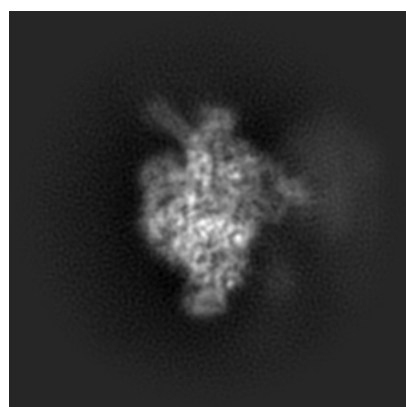
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9047. These allow visual inspection of the internal detail of the map and identification of artifacts.

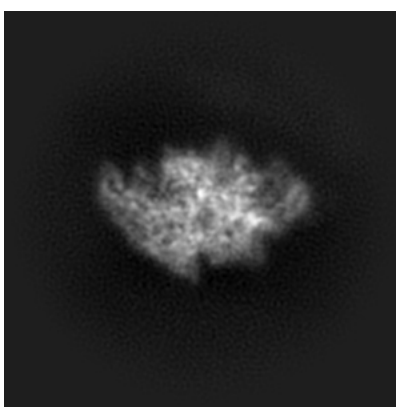
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

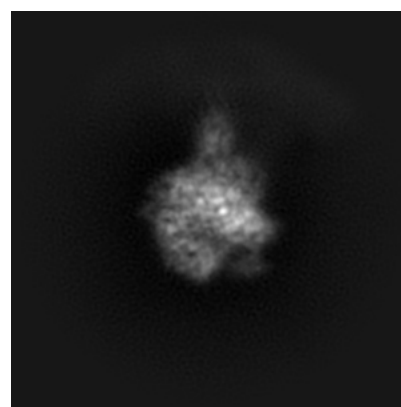
6.1.1 Primary map



X



Y

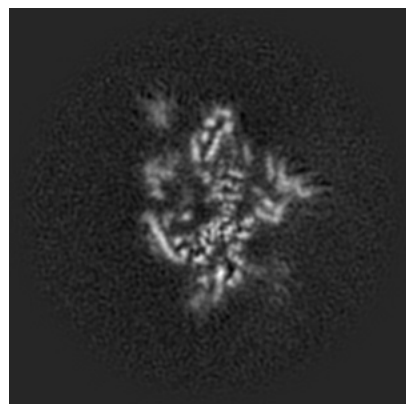


Z

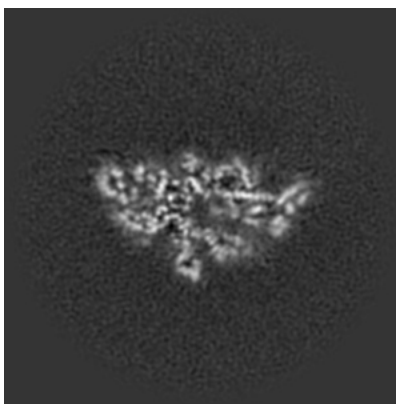
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

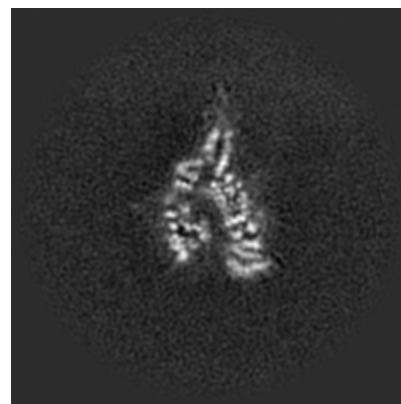
6.2.1 Primary map



X Index: 128



Y Index: 128

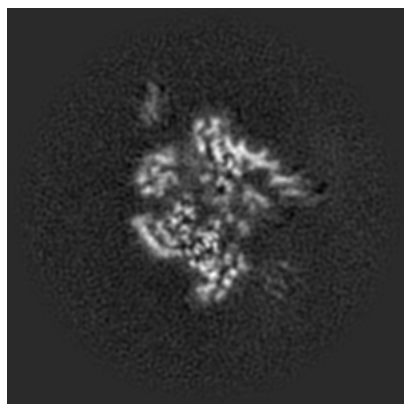


Z Index: 128

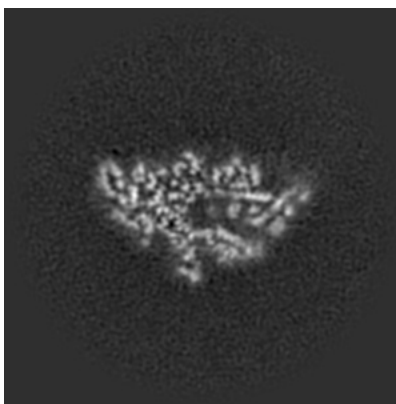
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

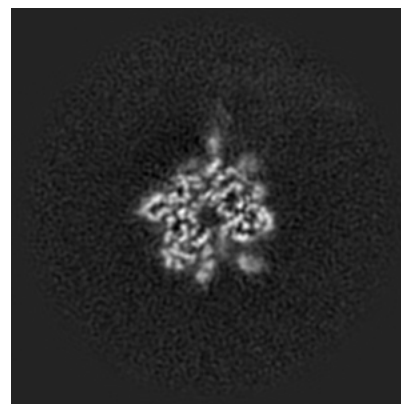
6.3.1 Primary map



X Index: 122



Y Index: 126

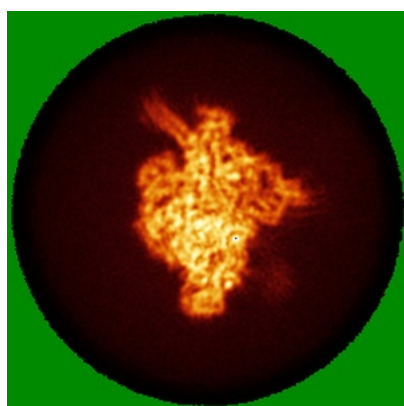


Z Index: 119

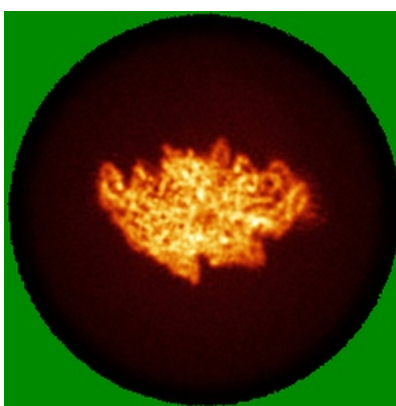
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

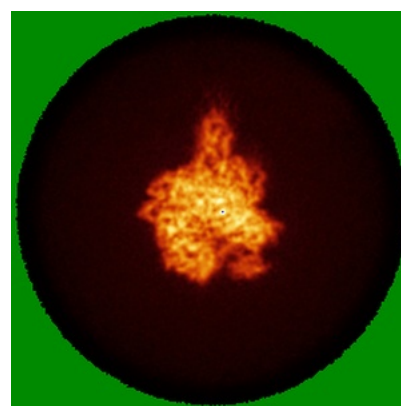
6.4.1 Primary map



X



Y

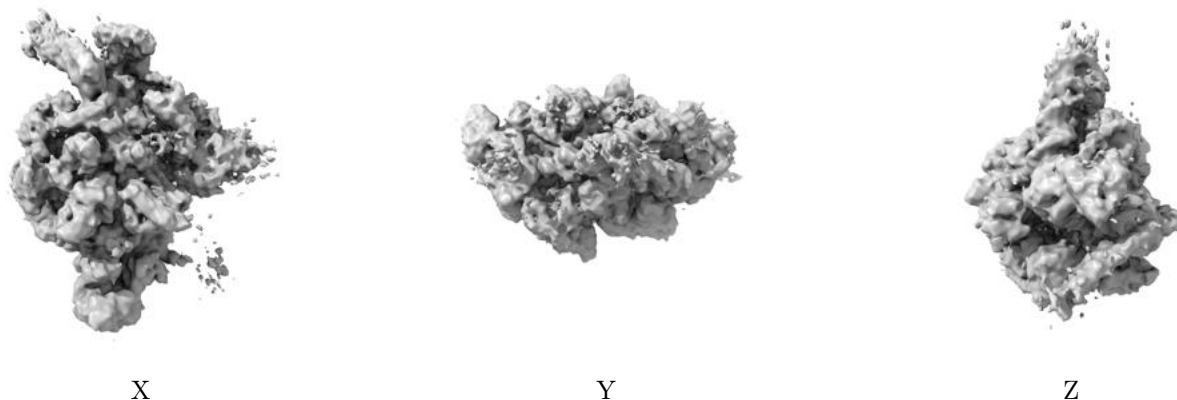


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

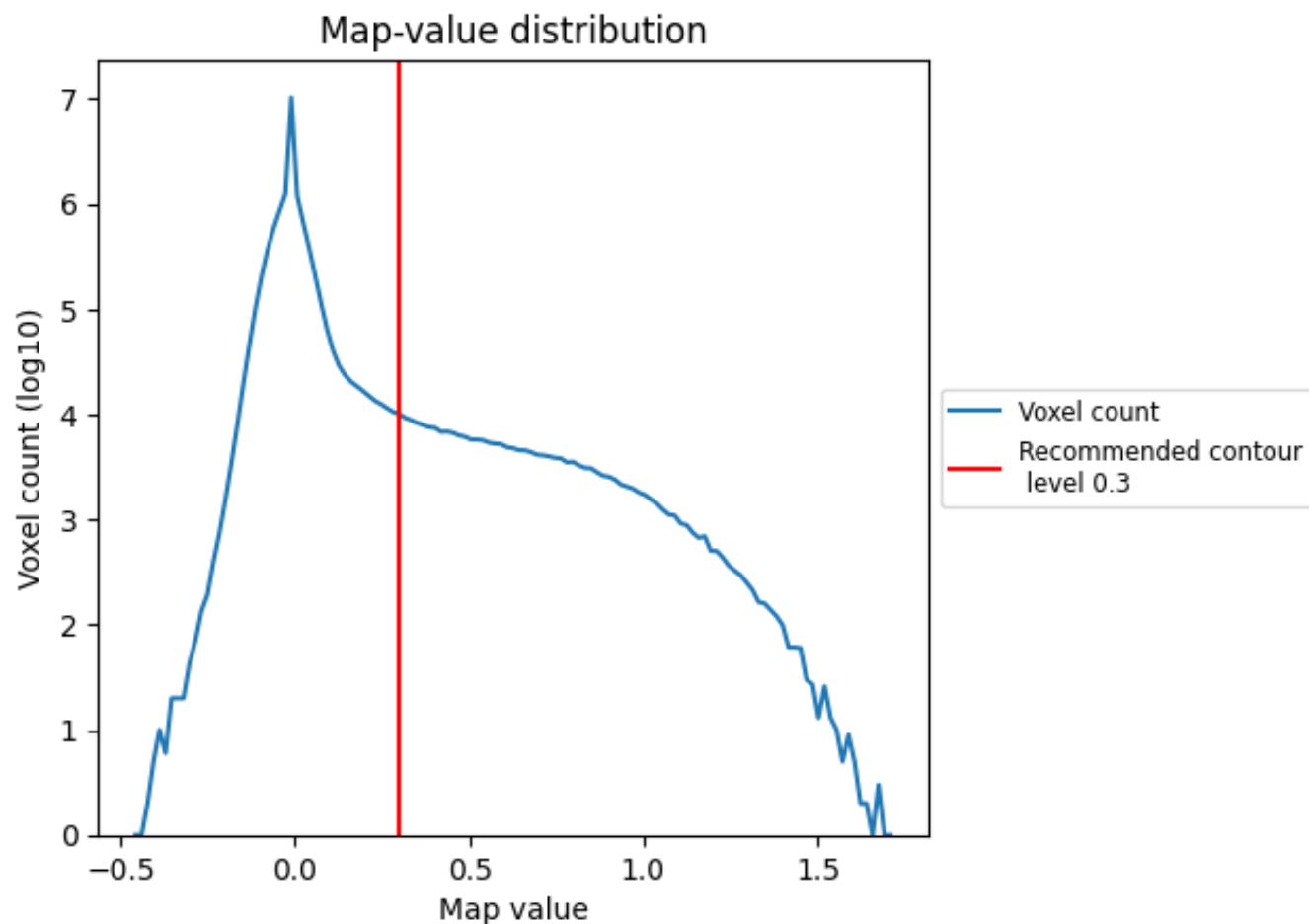
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

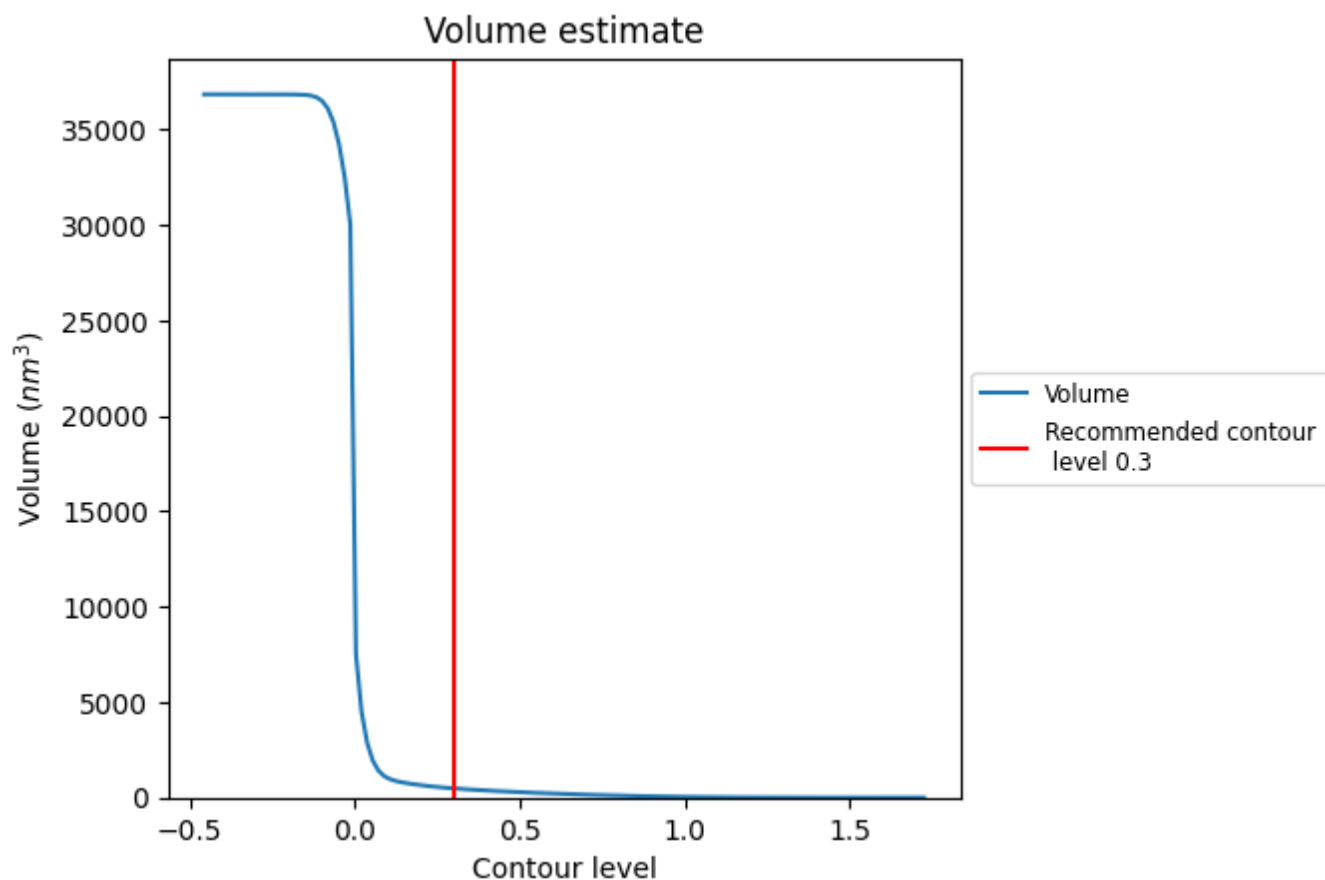
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

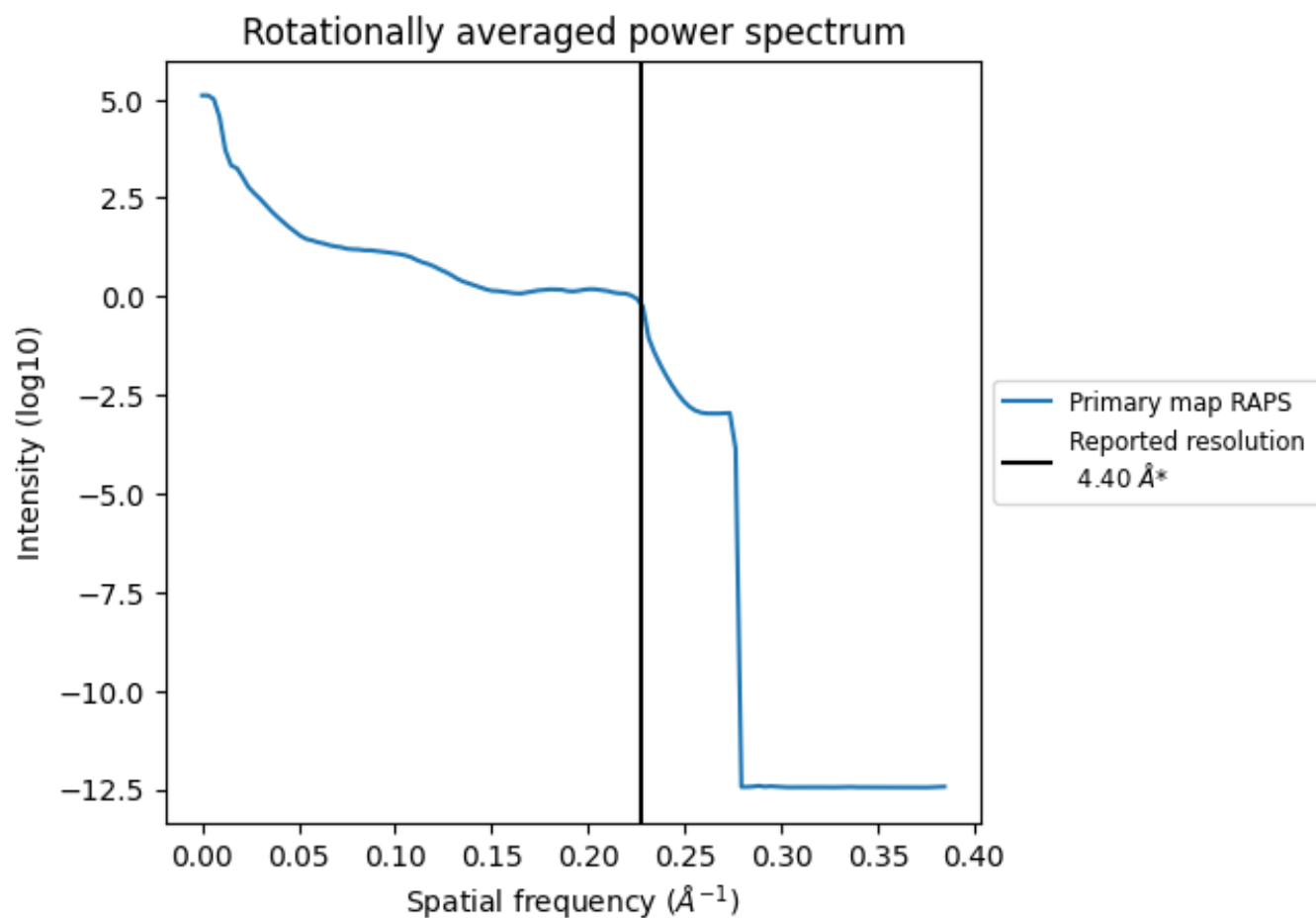
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 480 nm³; this corresponds to an approximate mass of 434 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

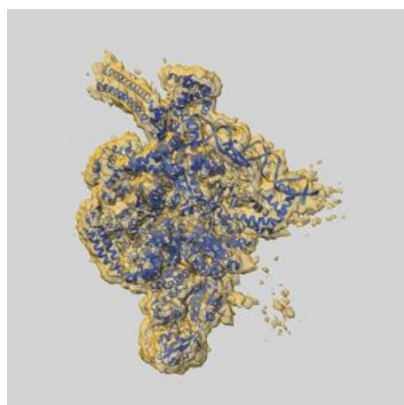
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

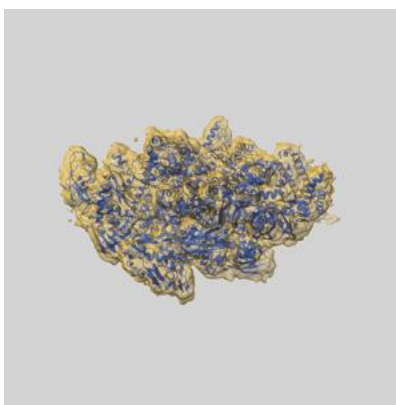
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9047 and PDB model 6M7J. Per-residue inclusion information can be found in section [3](#) on page [8](#).

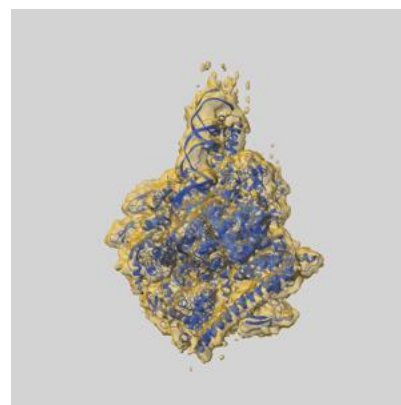
9.1 Map-model overlay [i](#)



X



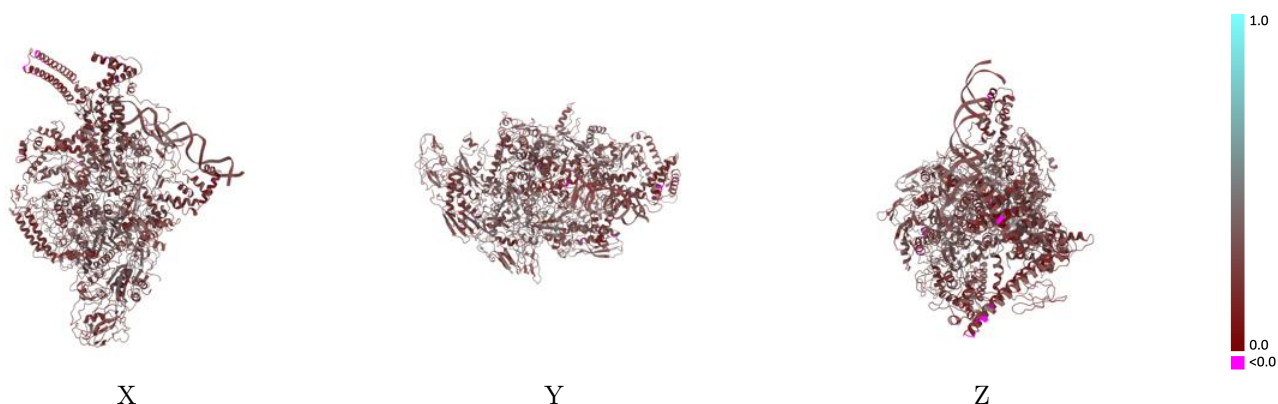
Y



Z

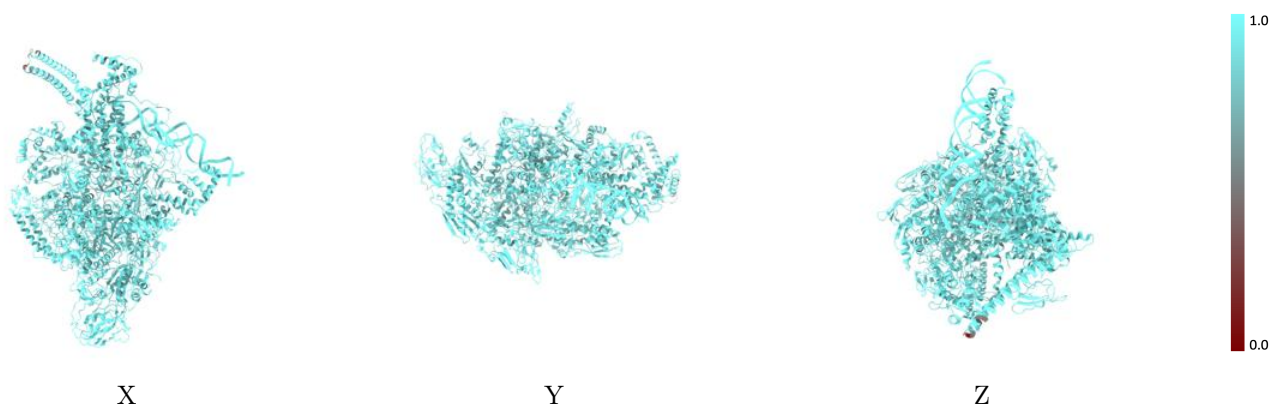
The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



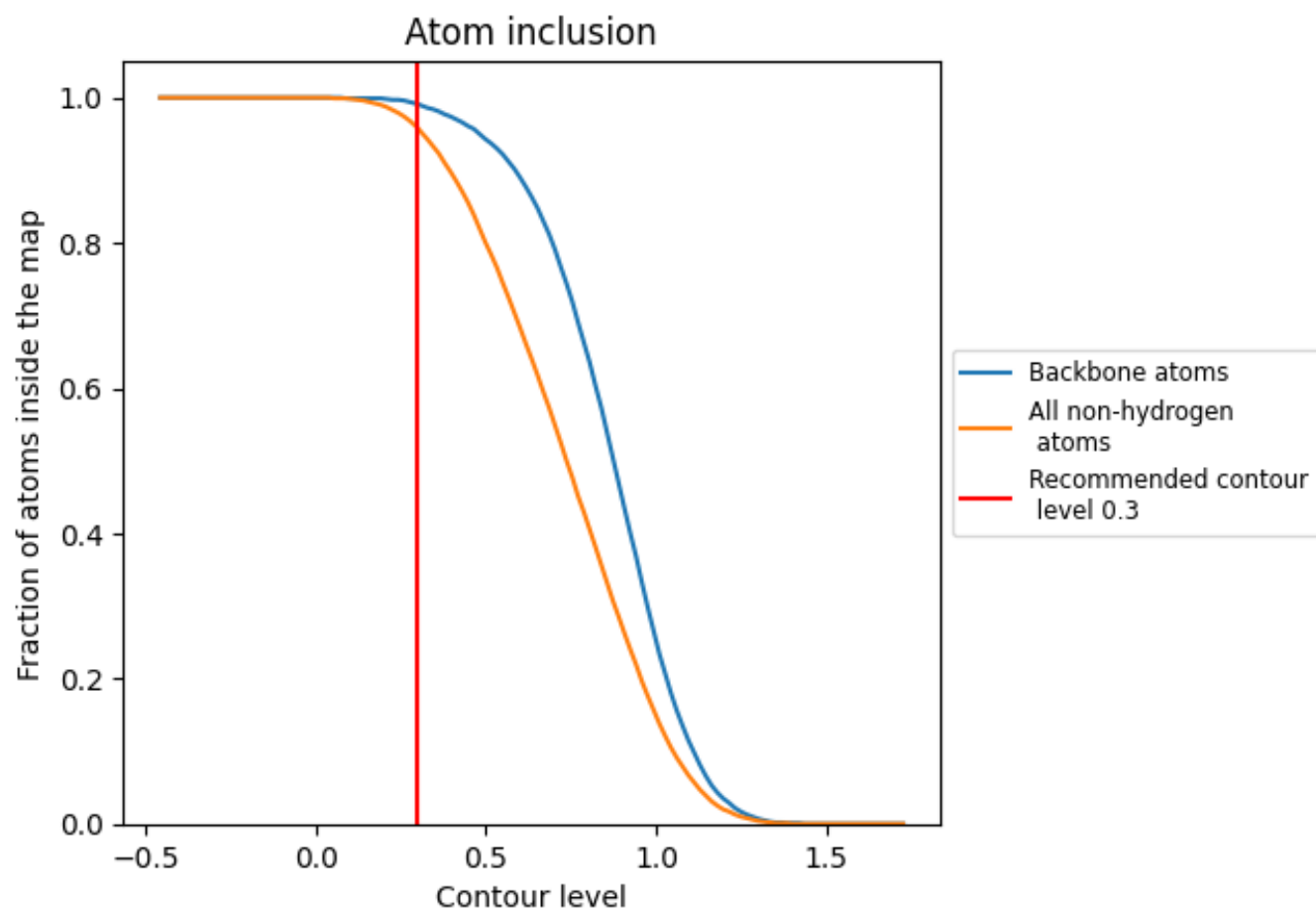
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).

9.4 Atom inclusion ⓘ



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9580	0.2970
A	0.9670	0.3200
B	0.9710	0.3000
C	0.9580	0.3070
D	0.9540	0.2960
E	0.9640	0.3080
F	0.9460	0.2500
J	0.9540	0.2830
O	0.9950	0.3060
P	0.9980	0.2990

1.0

0.0

<0.0