



Full wwPDB EM Validation Report ⓘ

Nov 9, 2022 – 02:55 AM JST

PDB ID : 6AHF
EMDB ID : EMD-9625
Title : CryoEM Reconstruction of Hsp104 N728A Hexamer
Authors : Zhang, X.; Zhang, L.; Zhang, S.
Deposited on : 2018-08-17
Resolution : 6.78 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:

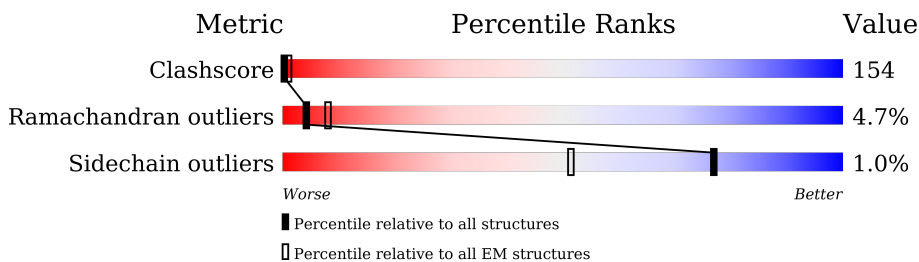
EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

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 6.78 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	908	
1	B	908	
1	C	908	
1	D	908	
1	E	908	
1	F	908	

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
2	AGS	C	1001	-	-	X	-
2	AGS	D	1001	-	-	X	-
2	AGS	E	1001	-	-	X	-
2	AGS	E	1002	-	-	X	-
2	AGS	F	1001	-	-	X	-
2	AGS	F	1002	-	-	X	-

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 32108 atoms, of which 0 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.

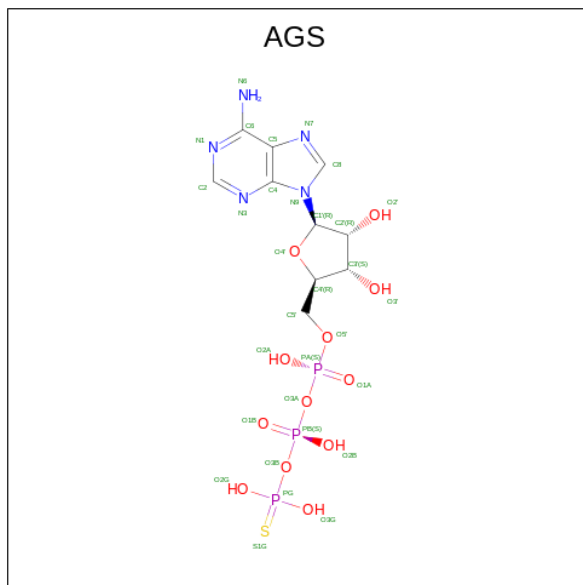
- Molecule 1 is a protein called Heat shock protein 104.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	577	4456	2803	773	862	18	0	0
1	B	737	5142	3152	948	1024	18	0	0
1	C	865	6162	3769	1133	1241	19	0	0
1	D	865	6170	3778	1133	1240	19	0	0
1	E	705	5512	3443	973	1078	18	0	0
1	F	574	4480	2821	783	858	18	0	0

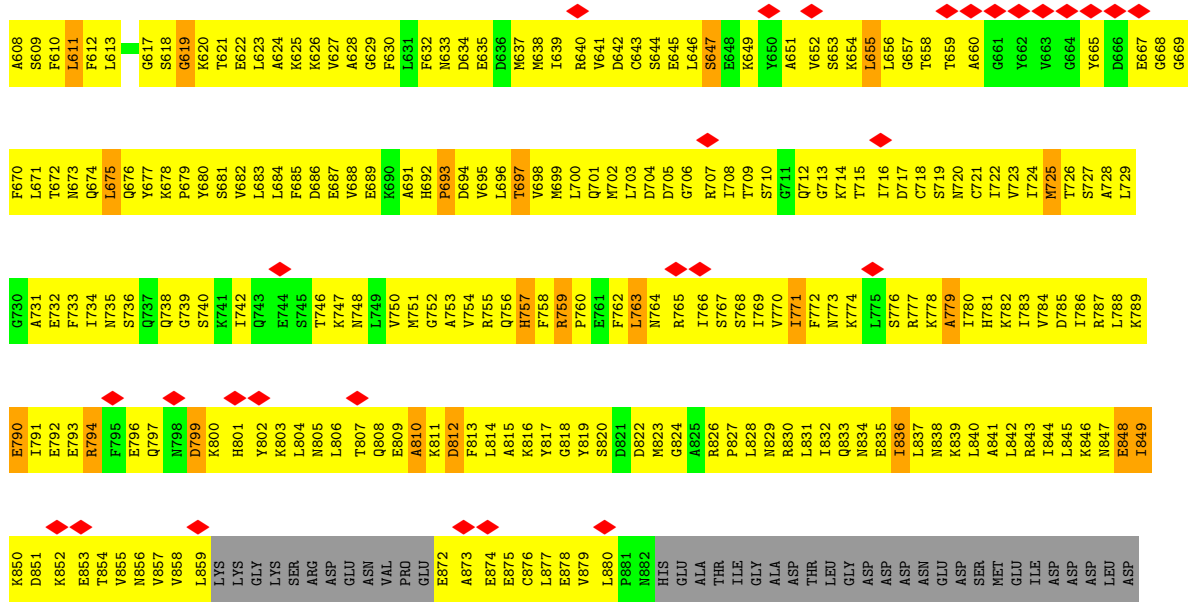
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	728	ALA	ASN	engineered mutation	UNP P31539
B	728	ALA	ASN	engineered mutation	UNP P31539
C	728	ALA	ASN	engineered mutation	UNP P31539
D	728	ALA	ASN	engineered mutation	UNP P31539
E	728	ALA	ASN	engineered mutation	UNP P31539
F	728	ALA	ASN	engineered mutation	UNP P31539

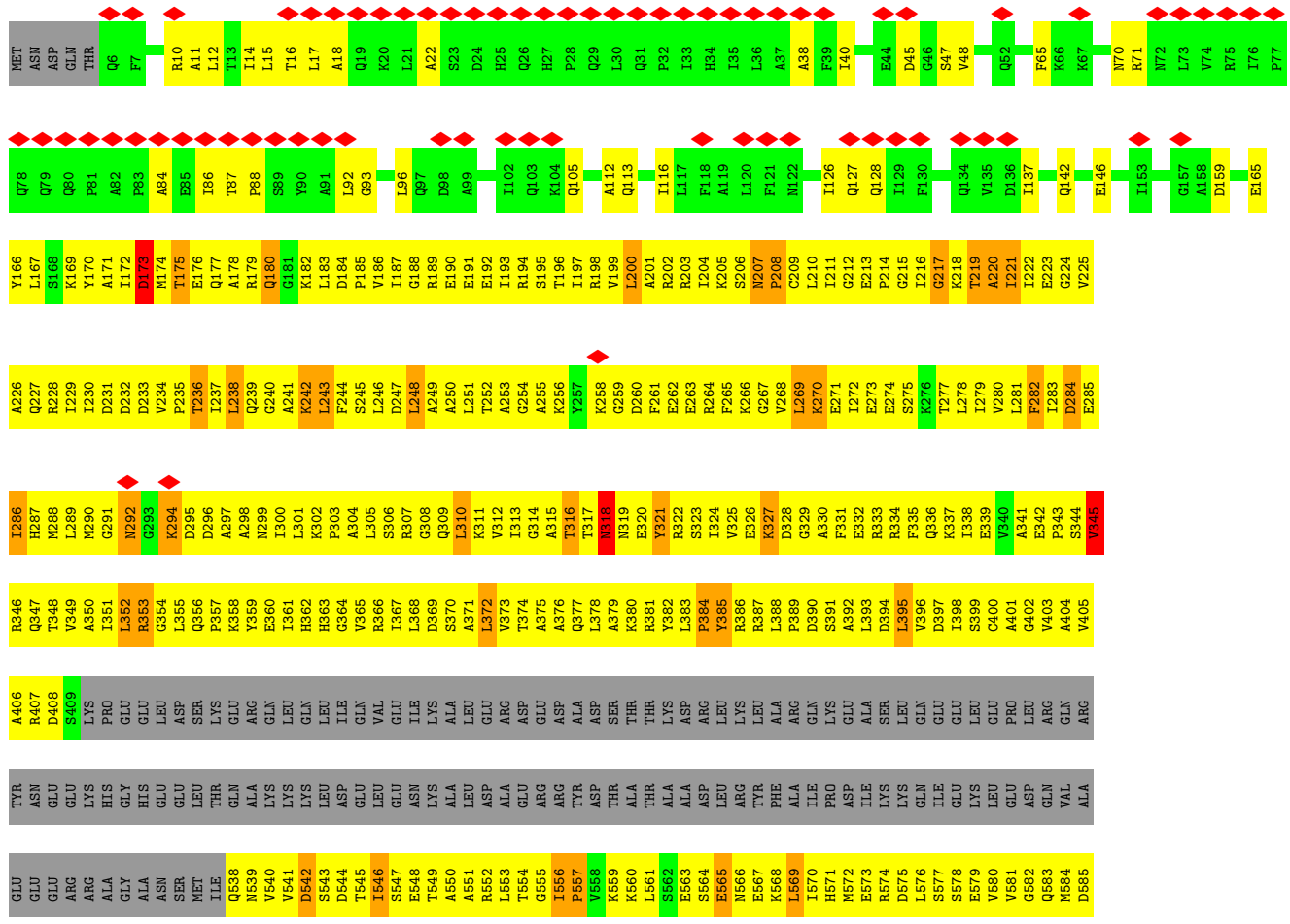
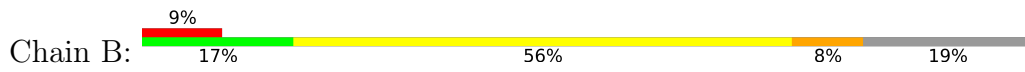
- Molecule 2 is PHOSPHOTHIOPHOSPHORIC ACID-ADENYLATE ESTER (three-letter code: AGS) (formula: C₁₀H₁₆N₅O₁₂P₃S).

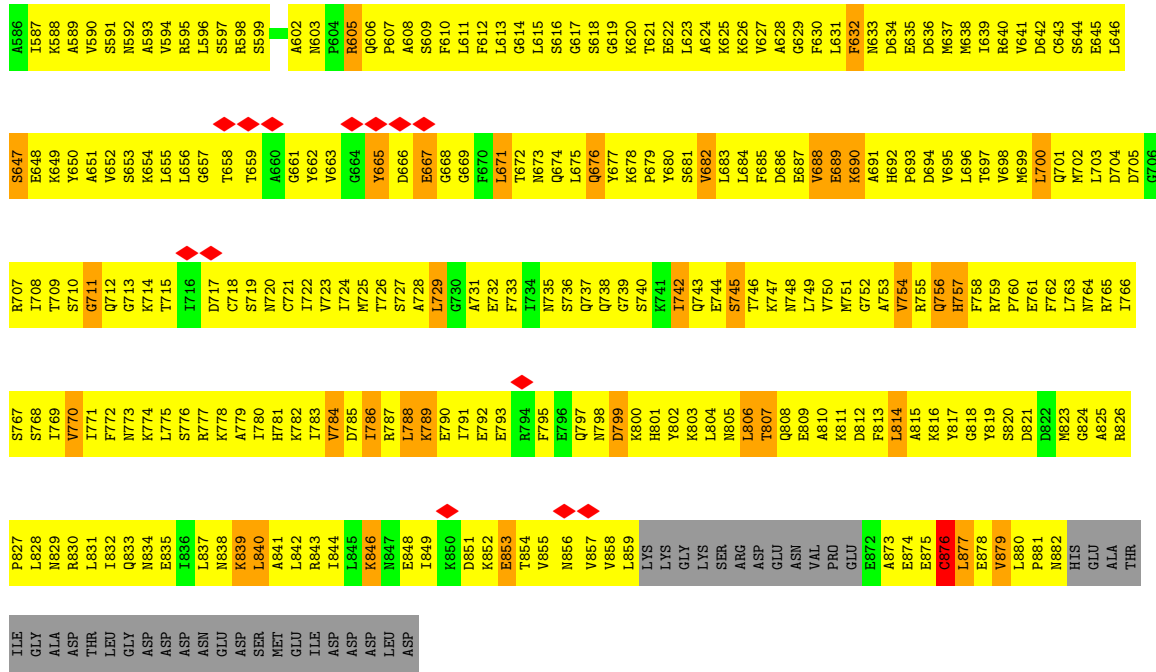


Mol	Chain	Residues	Atoms					AltConf	
			Total	C	N	O	P		S
2	C	1	Total 31	10	5	12	3	1	0
2	D	1	Total 31	10	5	12	3	1	0
2	E	1	Total 62	20	10	24	6	2	0
2	E	1	Total 62	20	10	24	6	2	0
2	F	1	Total 62	20	10	24	6	2	0
2	F	1	Total 62	20	10	24	6	2	0

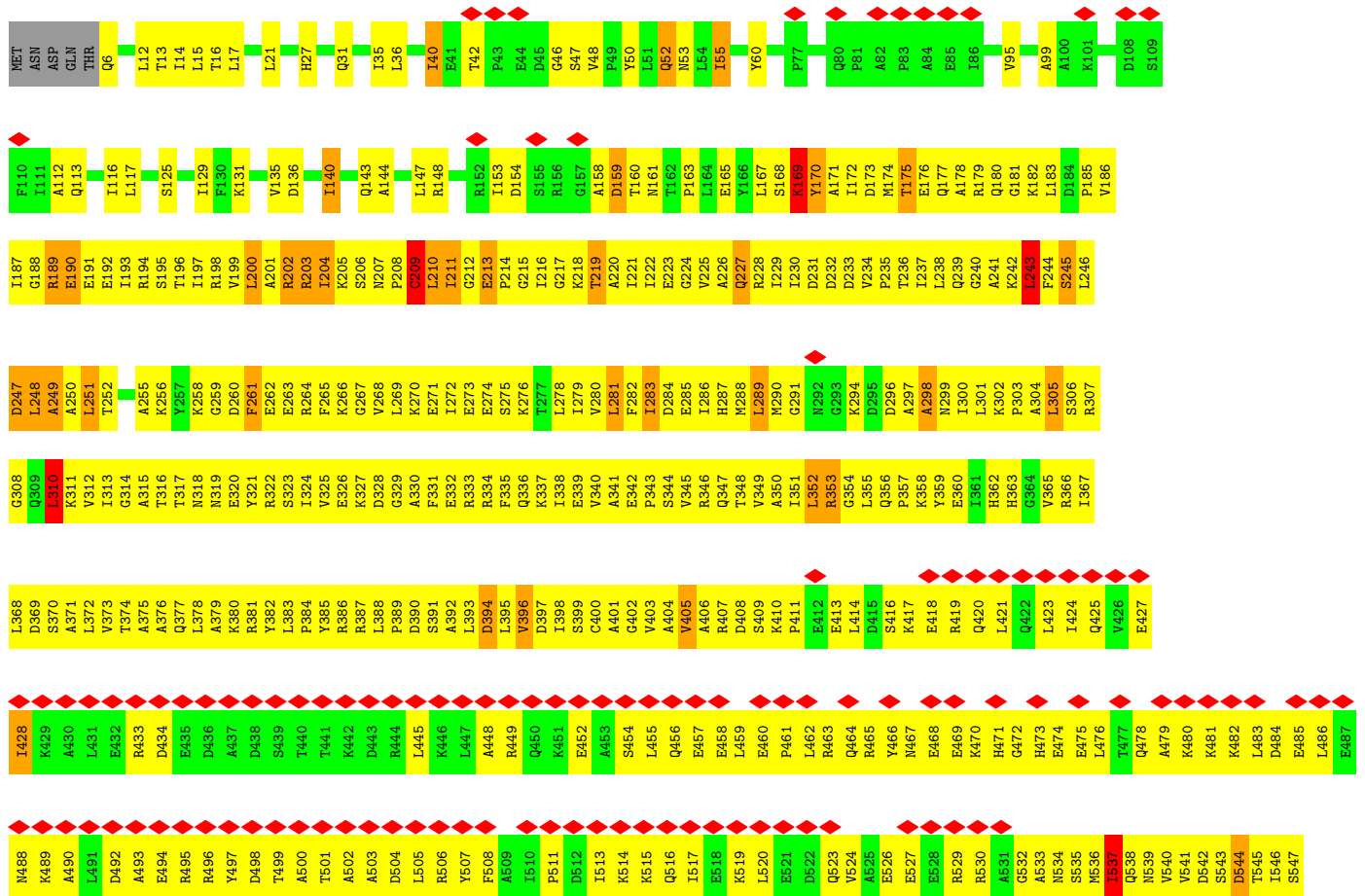


• Molecule 1: Heat shock protein 104





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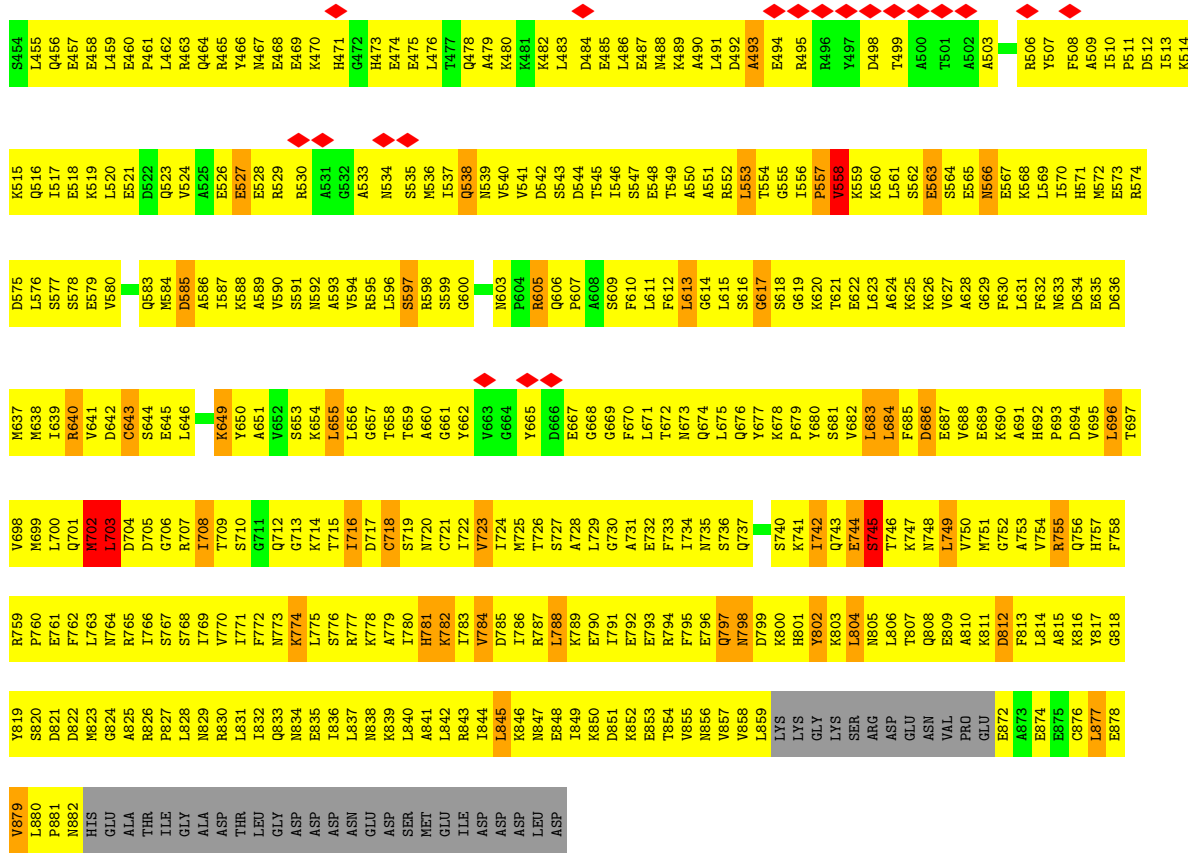


E548	T549	A550	A551	R552	L553	T554	G555	L556	P557	V558	K559	K560	L561	S562	E563	S564	E565	N566	E567	K568	L569	I570	L631	M571	M572	E573	R574	D575	L576	S577	S578	E579	V580	V581	G582	Q583	M584	D585	A586	K588	A589	V590	S591	N592	A593	V594	R595	L596	S597	R598	S599	G600	L601	A602	M603	F604	R605	Q606	P607			
A608	S609	F610	L611	F612	L613	G614	L615	S616	G617	S618	G619	K620	T621	E622	E623	A624	F625	K626	V627	A628	G629	F630	L631	F632	N633	D634	E635	D636	M637	M638	I639	R640	V641	D642	C643	S644	E645	L646	R647	S648	T649	K649	Y650	A651	V652	S653	K654	L655	L656	G657	T658	S659	T660	A661	C662	V663	G664	Y665	D666	E667		
G668	G669	F670	L671	T672	N673	O674	L675	G676	V677	K678	P679	K680	S681	V682	L683	L684	F685	D686	E687	V688	E689	K690	I691	A692	F693	P694	R695	L696	T697	M698	M699	L700	Q701	M702	L703	D704	D705	G706	I707	T708	S709	Y710	G711	Q712	G713	K714	T715	L716	G717	T718	S719	T720	C721	I722	V723	I724	M725	L726	S727			
A728	L729	G730	A731	E732	F733	I734	N735	S736	Q737	Q738	P739	S740	K741	I742	Q743	E744	S745	T746	E687	N748	L749	V750	M751	G752	A753	V754	R755	Q756	R757	F758	R759	P760	E761	F762	L763	N764	R765	I766	S767	S768	I769	V770	I771	F772	N773	K774	L775	S776	R777	C778	L782	R843	I844	L845	A846	R847						
L788	K789	E790	I791	E792	E793	R794	F795	E796	Q797	N798	D799	K800	H801	Y802	L803	L804	S805	L806	T807	A808	E809	PRO	M810	K811	D812	F813	L814	A815	K816	R817	G818	Y819	S820	D821	D822	M823	G824	A825	R826	P827	L828	N829	R830	L831	L832	Q833	N834	E835	L836	L837	N838	K839	I780	H781	C782	L842	R843	I844	L845	A846	K847	N847
E848	L849	K850	G851	K852	E853	T854	V855	N856	V857	V858	L859	LYS	GLY	Y802	LYS	ARG	SER	ASP	GLU	ASN	VAL	PRO	GLU	E872	L873	E874	E875	C876	L877	E878	L879	L880	R881	N882	HIS	GLU	ALA	THR	ILE	GLY	ALA	ASP	THR	LEU	GLY	ASP	ASP	ASN	GLU	ASP	SER	MET	A841	L842	ILE	ASP	ASP	ASP	LEU			

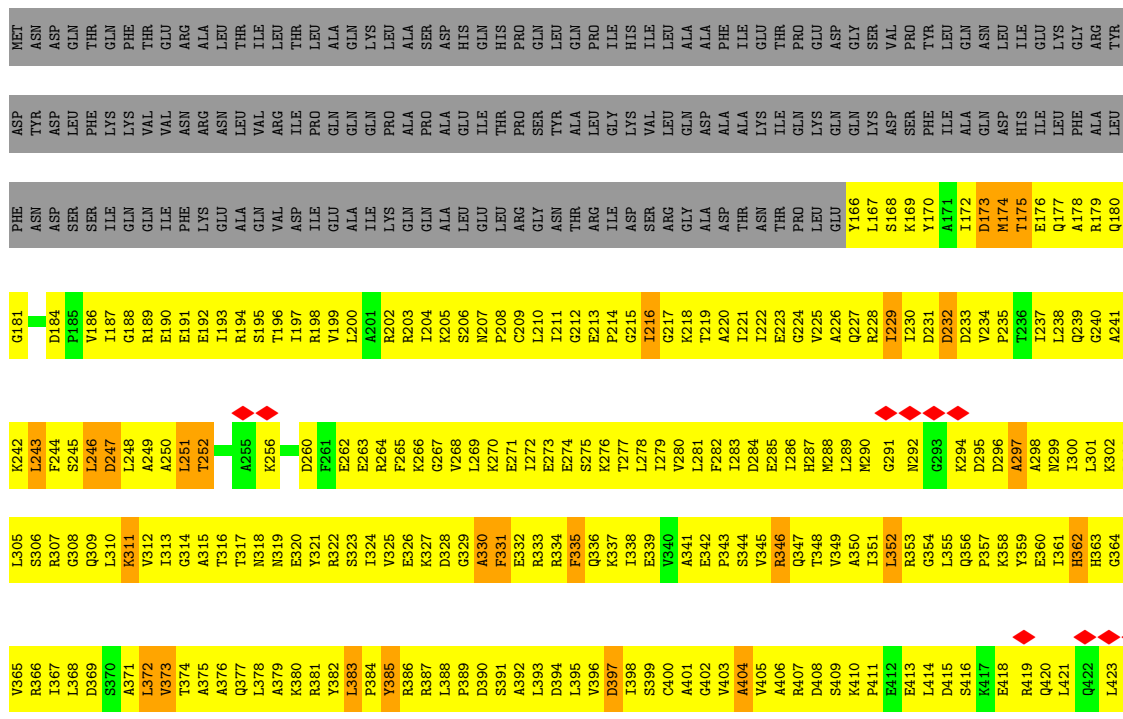
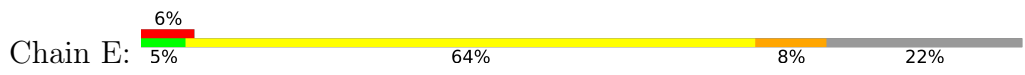
• Molecule 1: Heat shock protein 104

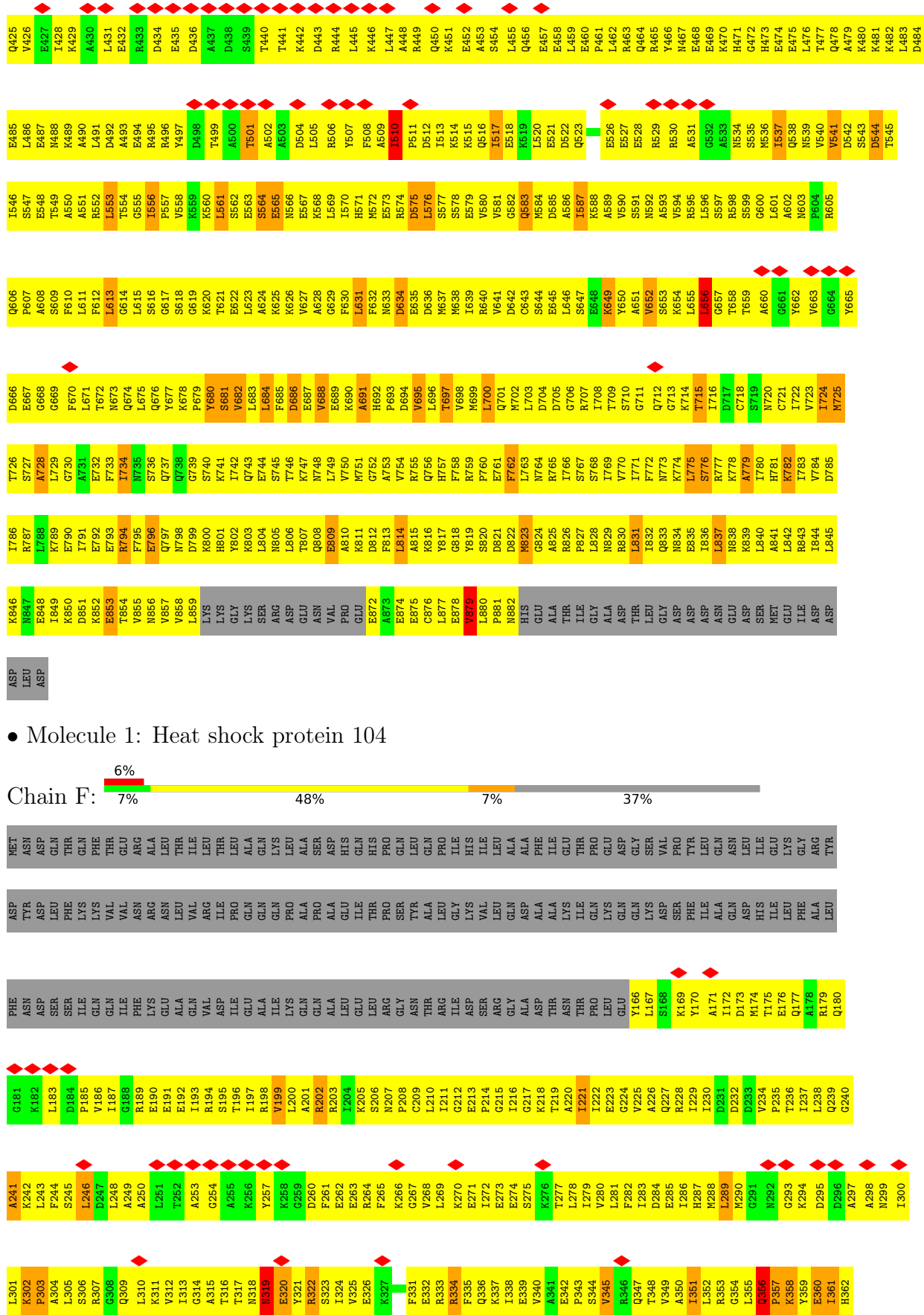


MET	ASN	ASP	GLM	THR	Q6	F7	T8	L12	T13	I14	L15	T16	L17	A18	Q19	K20	L21	A22	S23	D24	H25	Q26	H27	P28	Q29	L30	Q31	P32	I33	H34	I35	L36	A37	A38	T42	P43	V48	P49	Y50	K57	G58	D63	L64	F65	K66	K67	V68	V69	N70	L73	V74	R75								
I76	P77	Q78	Q79	Q80	P81	P82	P83	A84	E85	I86	T87	P88	S89	L92	G93	K94	Q97	D98	I102	Q103	D108	S109	F110	I111	I116	L117	F118	S124	S125	I126	Q127	Q128	I129	F130	K131	Q134	V135	D136	I137	E138	A139	I140	K141	Q142	Q143	A144	L145	E146	G149	N150	T151									
R152	I153	D154	S155	L156	G157	A158	D159	T162	E163	L164	E165	Y166	S168	K169	Y170	A171	I172	D173	M174	T175	E176	Q177	A178	R179	Q180	G181	K182	L183	D184	P185	L186	I187	G188	R189	E190	E191	E192	I193	R194	S196	T196	I197	R198	V199	L200	A201	R202	E203	L204	K205	S206	N207	P208	C209	I211	G212				
E213	P214	G215	L216	G217	K218	T219	A220	I221	E222	G224	V225	A226	Q227	E228	L229	I230	D231	D232	D233	V234	P235	T236	L237	L238	Q239	G240	A241	K242	L243	P244	S245	L246	D247	L248	A249	A250	L251	T252	K258	G259	D260	E261	E262	E263	R264	F265	K266	G267	V268	L269	K270	E271	L272	E273						
E274	S275	K276	T277	L278	L279	V280	L281	F282	L283	D284	E285	L286	H287	N288	L289	N290	G291	N292	G293	K294	D295	D296	A297	N298	N299	L300	L301	K302	P303	A304	L305	S306	R307	G308	Q309	L310	K311	V312	L313	G314	A315	T316	T317	N318	N319	E320	Y321	R322	S323	L324	V325	E326	K327	D328	G329	A330	F331	A332	E332	R333
R334	F335	Q336	K337	L338	E339	V340	A341	E342	P343	A344	V345	R346	Q347	T348	V349	A350	L351	L352	R353	G354	L355	Q356	P357	K358	Y359	E360	L361	H362	H363	G364	V365	R366	L367	L368	D369	S370	A371	L372	V373	T374	A375	A376	Q377	L378	A379	K380	R381	Y382	L383	P384	Y385	R386	R387	L388	P389	D390	S391	A392	L393	
D394	L395	V396	D397	L398	S399	C400	A401	G402	V403	A404	V405	A406	R407	D408	S409	K410	P411	E412	E413	L414	D415	S416	K417	E418	R419	Q420	L421	Q422	L423	L424	Q425	V426	E427	L428	K429	A430	L431	E432	R433	A434	E435	D436	A437	D438	S439	T440	T441	K442	D443	R444	L445	S391	K446	L447	A448	R449	Q450	K451	E452	A453

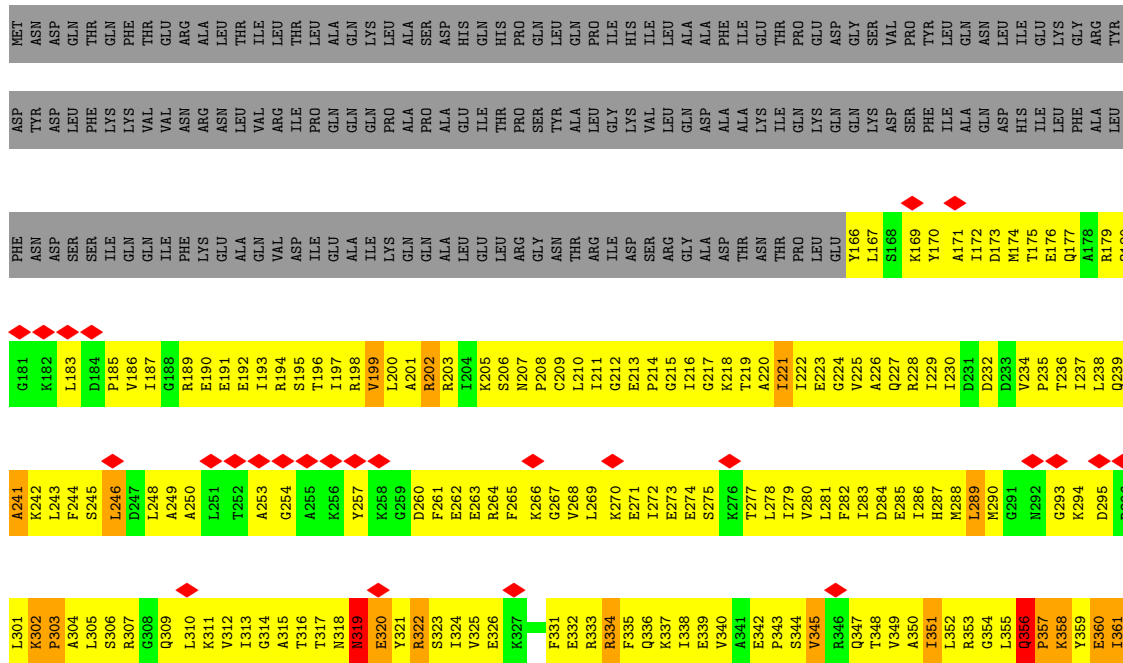


● Molecule 1: Heat shock protein 104





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ASP	L846	D785	M725	G604	D544	H363
ASP	R847	L786	T726	R605	T544	G364
ASP	E848	L787	S727	Q606	I546	V365
	L849	L788	A728	F607	S547	R366
	R850	K789	L729	A608	E548	I367
	D851	E790	G730	S609	T549	L368
	K852	L791	A731	F610	A550	D369
	E853	E792	F732	L611	A551	S370
	T854	F793	F733	L612	R552	A371
	R855	L794	K734	L613	L553	V373
	R856	F795	L735	G614	T554	L372
	L857	E796	S736	L615	G555	T374
	L858	O797	G737	S616	G556	A375
	L859	N798	Q738	S617	F557	A376
	LYS	D799	G739	S618	V558	Q377
	LYS	K800	S740	Q619	K559	L378
	GLY	H801	K741	F620	K560	A379
	LYS	H802	L742	T621	L561	K380
	SER	K803	Q743	E622	S562	R381
	ARG	L804	E744	L623	E563	Y382
	ASP	N805	S745	A624	S564	L383
	GLU	L806	T746	K625	E565	R386
	ASN	T807	K747	K626	N566	R387
	VAL	Q808	N748	V627	E567	L388
	PRO	E809	L749	A628	K568	P389
	GLU	L810	V750	G629	L569	D390
	E872	K811	M751	F630	I570	S391
	A873	D812	G752	L631	H571	A392
	E875	F813	A753	F632	H572	L393
	C876	L814	V754	N633	E573	D394
	L877	K815	R755	D634	R574	L395
	E878	L816	Q756	E635	D575	V396
	L879	L817	H757	D636	L576	D397
	L880	G818	F758	N637	S577	I398
	P881	F819	R759	N638	E578	S399
	H882	S820	P760	L639	E579	C400
	HIS	D821	E761	R640	V580	A401
	GLU	R822	Q701	V641	V581	G402
	ALA	H623	H702	D642	G582	V403
	THR	G824	E703	C643	Q583	A404
	ILE	A825	D704	S644	N584	V405
	GLY	R826	D705	E645	D585	A406
	ALA	P827	G706	L646	A586	R407
	ASP	L828	R707	S647	I587	D408
	THR	N829	L708	E648	K588	S409
	LEU	R830	T709	R649	A589	LYS
	ASP	L831	S710	V650	V590	PRO
	GLY	R832	G711	A651	S591	GLU
	ASP	Q833	O712	V652	N592	GLU
	ASP	N834	G713	S653	A593	LEU
	ASP	L836	K714	K654	V594	LEU
	ASN	L837	L775	L655	B595	ASP
	GLU	N838	S776	L656	L596	SER
	ASP	K839	R777	L657	S597	LYS
	SER	L840	K778	T658	R598	GLU
	MET	A841	A779	G661	S599	GLN
	GLU	L842	H781	V662	G600	LYS
	ILE	R843	K782	V663	L601	LEU
	ASP	L844	I722	V664	A602	LEU
			V724		N603	
			I723			
			I724			

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	69537	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 ($e^-/\text{\AA}^2$)	50	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	0.506	Depositor
Minimum map value	-0.223	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.024	Depositor
Recommended contour level	0.08	Depositor
Map size (Å)	285.12003, 285.12003, 285.12003	wwPDB
Map dimensions	108, 108, 108	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.6400003, 2.6400003, 2.6400003	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: AGS

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.59	0/4509	0.83	4/6077 (0.1%)
1	B	0.67	0/5196	0.93	15/6932 (0.2%)
1	C	0.72	1/6223 (0.0%)	1.00	28/8312 (0.3%)
1	D	1.61	10/6233 (0.2%)	1.00	22/8325 (0.3%)
1	E	0.73	5/5573 (0.1%)	0.96	17/7501 (0.2%)
1	F	0.59	1/4535 (0.0%)	0.84	12/6103 (0.2%)
All	All	0.93	17/32269 (0.1%)	0.94	98/43250 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	30
1	B	0	43
1	C	0	28
1	D	0	41
1	E	0	22
1	F	0	20
All	All	0	184

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	321	TYR	CD2-CE2	63.02	2.33	1.39
1	D	321	TYR	CD1-CE1	59.39	2.28	1.39
1	D	321	TYR	CE2-CZ	39.66	1.90	1.38
1	D	321	TYR	CE1-CZ	39.48	1.89	1.38
1	D	321	TYR	CG-CD1	30.30	1.78	1.39
1	D	321	TYR	CG-CD2	29.96	1.78	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	802	TYR	CD2-CE2	-6.74	1.29	1.39
1	E	335	PHE	CB-CG	-6.29	1.40	1.51
1	E	762	PHE	CB-CG	-6.17	1.40	1.51
1	F	819	TYR	CD1-CE1	-5.95	1.30	1.39
1	D	745	SER	CA-C	-5.66	1.38	1.52
1	D	802	TYR	CD1-CE1	-5.24	1.31	1.39
1	C	650	TYR	CD2-CE2	-5.16	1.31	1.39
1	E	682	VAL	CB-CG1	-5.05	1.42	1.52
1	E	385	TYR	CD1-CE1	-5.05	1.31	1.39
1	E	796	GLU	CB-CG	-5.04	1.42	1.52
1	D	385	TYR	CD2-CE2	-5.01	1.31	1.39

All (98) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	613	LEU	CA-CB-CG	-9.59	93.25	115.30
1	E	553	LEU	CA-CB-CG	-9.56	93.32	115.30
1	C	210	LEU	CA-CB-CG	8.83	135.61	115.30
1	D	200	LEU	CA-CB-CG	-8.80	95.07	115.30
1	C	646	LEU	CA-CB-CG	-8.48	95.79	115.30
1	B	814	LEU	CA-CB-CG	-8.26	96.31	115.30
1	B	310	LEU	CA-CB-CG	-8.07	96.75	115.30
1	C	251	LEU	CA-CB-CG	7.91	133.48	115.30
1	C	200	LEU	CA-CB-CG	-7.85	97.25	115.30
1	C	305	LEU	CA-CB-CG	-7.79	97.37	115.30
1	C	289	LEU	CA-CB-CG	-7.62	97.78	115.30
1	C	189	ARG	NE-CZ-NH2	-7.54	116.53	120.30
1	A	378	LEU	CA-CB-CG	-7.28	98.57	115.30
1	D	321	TYR	CB-CG-CD1	-7.21	116.67	121.00
1	D	553	LEU	CA-CB-CG	-7.17	98.81	115.30
1	B	372	LEU	CA-CB-CG	-7.12	98.93	115.30
1	E	814	LEU	CA-CB-CG	-7.07	99.05	115.30
1	C	251	LEU	CB-CG-CD2	-7.03	99.04	111.00
1	B	353	ARG	NE-CZ-NH2	-6.97	116.81	120.30
1	E	576	LEU	CA-CB-CG	-6.96	99.30	115.30
1	C	596	LEU	CA-CB-CG	-6.91	99.40	115.30
1	F	576	LEU	CA-CB-CG	-6.91	99.41	115.30
1	F	289	LEU	CA-CB-CG	6.89	131.15	115.30
1	E	251	LEU	CA-CB-CG	-6.75	99.78	115.30
1	C	814	LEU	CA-CB-CG	-6.72	99.85	115.30
1	D	289	LEU	CA-CB-CG	-6.71	99.87	115.30
1	C	601	LEU	CA-CB-CG	-6.68	99.94	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	576	LEU	CA-CB-CG	-6.63	100.05	115.30
1	A	291	GLY	N-CA-C	-6.54	96.75	113.10
1	E	383	LEU	CA-CB-CG	-6.53	100.28	115.30
1	B	200	LEU	CA-CB-CG	-6.51	100.33	115.30
1	C	553	LEU	CA-CB-CG	-6.49	100.38	115.30
1	C	243	LEU	CB-CG-CD1	-6.49	99.97	111.00
1	F	671	LEU	CA-CB-CG	-6.46	100.44	115.30
1	D	378	LEU	CA-CB-CG	-6.44	100.48	115.30
1	F	246	LEU	CA-CB-CG	6.38	129.97	115.30
1	B	700	LEU	CA-CB-CG	-6.37	100.65	115.30
1	D	696	LEU	CA-CB-CG	-6.23	100.97	115.30
1	E	510	ILE	C-N-CD	6.22	141.46	128.40
1	D	388	LEU	CA-CB-CG	-6.20	101.03	115.30
1	E	831	LEU	CA-CB-CG	-6.20	101.05	115.30
1	C	243	LEU	CA-CB-CG	6.09	129.30	115.30
1	E	372	LEU	CA-CB-CG	-6.00	101.49	115.30
1	D	788	LEU	CA-CB-CG	-5.99	101.51	115.30
1	D	528	GLU	N-CA-C	-5.93	94.99	111.00
1	F	553	LEU	CA-CB-CG	-5.92	101.68	115.30
1	D	382	TYR	CA-CB-CG	-5.89	102.20	113.40
1	C	785	ASP	CB-CG-OD1	-5.87	113.02	118.30
1	B	840	LEU	CA-CB-CG	-5.87	101.81	115.30
1	D	372	LEU	CA-CB-CG	5.85	128.76	115.30
1	B	352	LEU	CA-CB-CG	-5.85	101.86	115.30
1	C	831	LEU	CA-CB-CG	-5.84	101.87	115.30
1	E	823	MET	C-N-CA	-5.83	110.06	122.30
1	C	842	LEU	CB-CG-CD2	-5.82	101.10	111.00
1	B	173	ASP	CB-CG-OD1	5.79	123.51	118.30
1	B	353	ARG	NE-CZ-NH1	5.79	123.19	120.30
1	C	708	ILE	CG1-CB-CG2	-5.79	98.67	111.40
1	E	656	LEU	CA-CB-CG	5.79	128.61	115.30
1	D	170	TYR	CA-CB-CG	5.77	124.36	113.40
1	B	542	ASP	CB-CG-OD1	5.76	123.48	118.30
1	E	561	LEU	CA-CB-CG	-5.76	102.06	115.30
1	B	243	LEU	CA-CB-CG	-5.75	102.06	115.30
1	D	702	MET	CA-CB-CG	-5.69	103.63	113.30
1	D	166	TYR	CA-CB-CG	5.68	124.20	113.40
1	C	203	ARG	NE-CZ-NH1	-5.68	117.46	120.30
1	F	763	LEU	CA-CB-CG	-5.68	102.23	115.30
1	F	202	ARG	NE-CZ-NH1	-5.67	117.47	120.30
1	E	775	LEU	CA-CB-CG	-5.66	102.28	115.30
1	D	352	LEU	CA-CB-CG	-5.64	102.32	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	561	LEU	CA-CB-CG	5.57	128.11	115.30
1	B	207	ASN	N-CA-CB	-5.49	100.71	110.60
1	A	763	LEU	CA-CB-CG	5.49	127.92	115.30
1	B	248	LEU	CA-CB-CG	-5.46	102.74	115.30
1	D	281	LEU	CA-CB-CG	-5.38	102.94	115.30
1	E	352	LEU	CA-CB-CG	-5.37	102.94	115.30
1	C	310	LEU	CA-CB-CG	-5.34	103.02	115.30
1	C	828	LEU	CB-CG-CD2	-5.33	101.94	111.00
1	F	202	ARG	NE-CZ-NH2	5.29	122.95	120.30
1	C	189	ARG	CG-CD-NE	-5.23	100.81	111.80
1	E	794	ARG	NE-CZ-NH1	-5.23	117.68	120.30
1	E	613	LEU	CA-CB-CG	5.21	127.27	115.30
1	D	321	TYR	CD1-CG-CD2	5.20	123.62	117.90
1	D	213	GLU	C-N-CD	-5.20	109.17	120.60
1	F	383	LEU	CA-CB-CG	-5.17	103.40	115.30
1	F	758	PHE	C-N-CA	5.17	134.62	121.70
1	F	724	ILE	CG1-CB-CG2	-5.17	100.03	111.40
1	C	665	TYR	CA-CB-CG	-5.16	103.59	113.40
1	C	734	ILE	CG1-CB-CG2	-5.12	100.14	111.40
1	F	749	LEU	CA-CB-CG	-5.09	103.60	115.30
1	C	598	ARG	CA-CB-CG	-5.08	102.22	113.40
1	C	845	LEU	CA-CB-CG	-5.06	103.66	115.30
1	D	744	GLU	C-N-CA	5.05	134.32	121.70
1	E	600	GLY	N-CA-C	-5.04	100.51	113.10
1	D	170	TYR	CB-CG-CD2	-5.04	117.98	121.00
1	D	782	LYS	CA-CB-CG	-5.03	102.32	113.40
1	B	569	LEU	CA-CB-CG	-5.02	103.75	115.30
1	E	631	LEU	CA-CB-CG	-5.01	103.76	115.30
1	C	352	LEU	CA-CB-CG	-5.01	103.78	115.30

There are no chirality outliers.

All (184) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	200	LEU	Peptide
1	A	206	SER	Peptide
1	A	210	LEU	Peptide
1	A	224	GLY	Peptide
1	A	231	ASP	Peptide
1	A	234	VAL	Peptide
1	A	244	PHE	Peptide
1	A	248	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	A	249	ALA	Peptide
1	A	260	ASP	Peptide
1	A	290	MET	Peptide
1	A	291	GLY	Peptide
1	A	334	ARG	Peptide
1	A	339	GLU	Peptide
1	A	356	GLN	Peptide
1	A	558	VAL	Peptide
1	A	560	LYS	Peptide
1	A	561	LEU	Peptide
1	A	569	LEU	Peptide
1	A	606	GLN	Peptide
1	A	611	LEU	Peptide
1	A	619	GLY	Peptide
1	A	679	PRO	Peptide
1	A	725	MET	Peptide
1	A	757	HIS	Peptide
1	A	771	ILE	Peptide
1	A	779	ALA	Peptide
1	A	810	ALA	Peptide
1	A	812	ASP	Peptide
1	A	848	GLU	Peptide
1	B	105	GLN	Peptide
1	B	126	ILE	Peptide
1	B	127	GLN	Peptide
1	B	128	GLN	Peptide
1	B	180	GLN	Peptide
1	B	217	GLY	Peptide
1	B	219	THR	Peptide
1	B	236	THR	Peptide
1	B	242	LYS	Peptide
1	B	270	LYS	Peptide
1	B	282	PHE	Peptide
1	B	284	ASP	Peptide
1	B	294	LYS	Peptide
1	B	318	ASN	Peptide
1	B	327	LYS	Peptide
1	B	345	VAL	Peptide
1	B	385	TYR	Peptide
1	B	45	ASP	Peptide
1	B	557	PRO	Peptide
1	B	565	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	B	578	SER	Peptide
1	B	605	ARG	Peptide
1	B	642	ASP	Peptide
1	B	647	SER	Peptide
1	B	665	TYR	Peptide
1	B	679	PRO	Peptide
1	B	682	VAL	Peptide
1	B	688	VAL	Peptide
1	B	689	GLU	Peptide
1	B	690	LYS	Peptide
1	B	711	GLY	Peptide
1	B	729	LEU	Peptide
1	B	757	HIS	Peptide
1	B	770	VAL	Peptide
1	B	789	LYS	Peptide
1	B	806	LEU	Peptide
1	B	807	THR	Peptide
1	B	839	LYS	Peptide
1	B	846	LYS	Peptide
1	B	853	GLU	Peptide
1	B	874	GLU	Peptide
1	B	876	CYS	Peptide
1	B	877	LEU	Peptide
1	C	202	ARG	Peptide
1	C	209	CYS	Peptide
1	C	243	LEU	Peptide
1	C	245	SER	Peptide
1	C	247	ASP	Peptide
1	C	248	LEU	Peptide
1	C	249	ALA	Peptide
1	C	298	ALA	Peptide
1	C	310	LEU	Peptide
1	C	353	ARG	Peptide
1	C	369	ASP	Peptide
1	C	537	ILE	Peptide
1	C	557	PRO	Peptide
1	C	600	GLY	Peptide
1	C	605	ARG	Peptide
1	C	611	LEU	Peptide
1	C	625	LYS	Peptide
1	C	632	PHE	Peptide
1	C	635	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	C	650	TYR	Peptide
1	C	651	ALA	Peptide
1	C	722	ILE	Peptide
1	C	743	GLN	Peptide
1	C	765	ARG	Peptide
1	C	771	ILE	Peptide
1	C	776	SER	Peptide
1	C	782	LYS	Peptide
1	C	799	ASP	Peptide
1	D	127	GLN	Peptide
1	D	166	TYR	Peptide
1	D	169	LYS	Peptide
1	D	189	ARG	Peptide
1	D	210	LEU	Peptide
1	D	214	PRO	Peptide
1	D	233	ASP	Peptide
1	D	248	LEU	Peptide
1	D	251	LEU	Peptide
1	D	259	GLY	Peptide
1	D	296	ASP	Peptide
1	D	357	PRO	Peptide
1	D	359	TYR	Peptide
1	D	410	LYS	Peptide
1	D	412	GLU	Peptide
1	D	493	ALA	Peptide
1	D	527	GLU	Peptide
1	D	538	GLN	Peptide
1	D	557	PRO	Peptide
1	D	558	VAL	Peptide
1	D	563	GLU	Peptide
1	D	605	ARG	Peptide
1	D	617	GLY	Peptide
1	D	649	LYS	Peptide
1	D	655	LEU	Peptide
1	D	683	LEU	Peptide
1	D	684	LEU	Peptide
1	D	686	ASP	Peptide
1	D	702	MET	Peptide
1	D	703	LEU	Peptide
1	D	708	ILE	Peptide
1	D	716	ILE	Peptide
1	D	718	CYS	Peptide

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Mol	Chain	Res	Type	Group
1	D	723	VAL	Peptide
1	D	74	VAL	Peptide
1	D	745	SER	Peptide
1	D	75	ARG	Peptide
1	D	774	LYS	Peptide
1	D	798	ASN	Peptide
1	D	804	LEU	Peptide
1	D	877	LEU	Peptide
1	E	173	ASP	Peptide
1	E	232	ASP	Peptide
1	E	243	LEU	Peptide
1	E	246	LEU	Peptide
1	E	247	ASP	Peptide
1	E	311	LYS	Peptide
1	E	510	ILE	Peptide
1	E	541	VAL	Peptide
1	E	564	SER	Peptide
1	E	565	GLU	Peptide
1	E	634	ASP	Peptide
1	E	670	PHE	Peptide
1	E	680	TYR	Peptide
1	E	681	SER	Peptide
1	E	684	LEU	Peptide
1	E	686	ASP	Peptide
1	E	691	ALA	Peptide
1	E	715	THR	Peptide
1	E	728	ALA	Peptide
1	E	776	SER	Peptide
1	E	782	LYS	Peptide
1	E	879	VAL	Peptide
1	F	199	VAL	Peptide
1	F	241	ALA	Peptide
1	F	302	LYS	Peptide
1	F	334	ARG	Peptide
1	F	369	ASP	Peptide
1	F	373	VAL	Peptide
1	F	544	ASP	Peptide
1	F	555	GLY	Peptide
1	F	561	LEU	Peptide
1	F	565	GLU	Peptide
1	F	603	ASN	Peptide
1	F	609	SER	Peptide

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Mol	Chain	Res	Type	Group
1	F	717	ASP	Peptide
1	F	748	ASN	Peptide
1	F	767	SER	Peptide
1	F	778	LYS	Peptide
1	F	802	TYR	Peptide
1	F	817	TYR	Peptide
1	F	826	ARG	Peptide
1	F	848	GLU	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4456	0	4540	1177	0
1	B	5142	0	4785	1578	0
1	C	6162	0	5790	1935	0
1	D	6170	0	5790	1953	0
1	E	5512	0	5602	1902	0
1	F	4480	0	4597	1382	0
2	C	31	0	12	29	0
2	D	31	0	12	39	0
2	E	62	0	24	64	0
2	F	62	0	24	37	0
All	All	32108	0	31176	9740	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 154.

All (9740) 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)
1:F:700:LEU:HD23	1:F:703:LEU:CD2	1.21	1.66
1:C:169:LYS:CE	1:C:264:ARG:HD2	1.23	1.62
1:D:321:TYR:CD1	1:D:321:TYR:CG	1.78	1.62
1:F:331:PHE:HA	1:F:334:ARG:CG	1.24	1.62
1:C:169:LYS:HE3	1:C:264:ARG:CB	1.21	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:321:TYR:CG	1:D:321:TYR:CD2	1.78	1.60
1:F:286:ILE:CD1	1:F:322:ARG:CD	1.78	1.56
1:C:169:LYS:CG	1:C:264:ARG:CD	1.85	1.53
1:F:704:ASP:CB	1:F:765:ARG:CZ	1.83	1.52
1:F:322:ARG:NH2	1:F:325:VAL:CG2	1.68	1.51
1:C:169:LYS:HE3	1:C:264:ARG:CG	1.36	1.50
1:F:286:ILE:HD11	1:F:322:ARG:CG	1.39	1.50
1:C:168:SER:CA	1:C:264:ARG:HH21	1.22	1.49
1:F:700:LEU:CD2	1:F:703:LEU:HD22	1.03	1.49
1:F:704:ASP:HB2	1:F:765:ARG:CZ	1.00	1.48
1:F:286:ILE:HD12	1:F:322:ARG:CD	1.34	1.48
1:C:169:LYS:CE	1:C:264:ARG:CD	1.77	1.44
1:F:331:PHE:CE1	1:F:335:PHE:N	1.86	1.44
1:F:363:HIS:CE1	1:F:397:ASP:HA	1.53	1.43
1:F:286:ILE:HD12	1:F:322:ARG:NE	1.30	1.42
1:C:168:SER:HA	1:C:264:ARG:NH2	1.21	1.41
1:F:286:ILE:CD1	1:F:322:ARG:HD3	1.43	1.39
1:F:704:ASP:HA	1:F:765:ARG:CD	1.52	1.37
1:C:169:LYS:HD3	1:C:264:ARG:NE	1.05	1.36
1:D:317:THR:HG23	1:D:321:TYR:CE1	1.61	1.36
1:C:168:SER:HB2	1:C:271:GLU:OE1	1.25	1.35
1:F:322:ARG:NH2	1:F:325:VAL:HG23	1.03	1.35
1:C:170:TYR:OH	1:C:250:ALA:N	1.63	1.31
1:D:326:GLU:OE2	1:D:327:LYS:NZ	1.60	1.30
1:C:169:LYS:CE	1:C:264:ARG:CG	2.02	1.27
1:C:515:LYS:NZ	1:D:435:GLU:OE2	1.69	1.26
1:C:169:LYS:HD3	1:C:264:ARG:CG	1.63	1.26
1:C:169:LYS:CE	1:C:264:ARG:CB	2.14	1.25
1:F:700:LEU:CG	1:F:703:LEU:CD2	2.12	1.24
1:D:556:ILE:O	1:D:560:LYS:NZ	1.68	1.24
1:F:704:ASP:CB	1:F:765:ARG:NE	2.00	1.23
1:B:785:ASP:O	1:B:789:LYS:NZ	1.71	1.21
1:C:169:LYS:CG	1:C:264:ARG:HD2	1.60	1.21
1:C:169:LYS:CE	1:C:264:ARG:HB2	1.69	1.21
1:F:356:GLN:HB3	1:F:357:PRO:CD	1.70	1.21
1:F:357:PRO:O	1:F:361:ILE:HB	1.40	1.21
1:C:170:TYR:CE1	1:C:249:ALA:HA	1.75	1.21
1:F:704:ASP:CG	1:F:765:ARG:NE	1.92	1.21
1:D:321:TYR:CD1	1:D:321:TYR:CE1	2.28	1.20
1:F:700:LEU:CG	1:F:703:LEU:HD22	1.69	1.19
1:D:317:THR:N	1:D:321:TYR:CD1	2.11	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:331:PHE:CE1	1:F:334:ARG:C	2.16	1.19
1:F:331:PHE:CA	1:F:334:ARG:CG	2.20	1.18
1:F:704:ASP:HB2	1:F:765:ARG:NH2	1.59	1.18
1:D:556:ILE:O	1:D:559:LYS:NZ	1.77	1.17
1:D:317:THR:CG2	1:D:321:TYR:CE1	2.25	1.17
1:F:331:PHE:CA	1:F:334:ARG:HG2	1.74	1.17
1:F:704:ASP:HB2	1:F:765:ARG:NH1	1.59	1.17
1:C:169:LYS:CG	1:C:264:ARG:HD3	1.60	1.16
1:D:191:GLU:OE2	1:D:194:ARG:NH1	1.76	1.16
1:D:218:LYS:NZ	2:D:1001:AGS:O3B	1.79	1.16
1:E:618:SER:OG	1:E:620:LYS:NZ	1.77	1.16
1:F:704:ASP:OD1	1:F:765:ARG:NE	1.78	1.16
1:C:168:SER:HA	1:C:264:ARG:CZ	1.77	1.15
1:B:353:ARG:HH11	1:B:373:VAL:HG23	0.98	1.15
1:C:169:LYS:H	1:C:264:ARG:CZ	1.59	1.15
1:F:363:HIS:CE1	1:F:397:ASP:OD1	2.00	1.15
1:F:605:ARG:HH12	1:F:705:ASP:HB3	1.02	1.14
1:F:699:MET:SD	1:F:702:MET:SD	2.45	1.14
1:F:700:LEU:CD2	1:F:703:LEU:CD2	1.89	1.14
1:C:170:TYR:OH	1:C:249:ALA:HB1	1.46	1.14
1:E:360:GLU:OE2	1:E:365:VAL:N	1.78	1.14
1:F:702:MET:HB2	1:F:708:ILE:HG13	1.23	1.14
1:C:170:TYR:CZ	1:C:250:ALA:N	2.09	1.14
1:E:602:ALA:O	1:F:794:ARG:NH1	1.80	1.14
1:D:791:ILE:O	1:D:794:ARG:NH1	1.79	1.14
1:D:323:SER:O	1:D:327:LYS:NZ	1.81	1.13
1:E:548:GLU:HB3	1:E:552:ARG:HH12	0.99	1.13
1:F:787:ARG:NH2	1:F:790:GLU:OE2	1.81	1.13
1:B:645:GLU:HA	1:B:691:ALA:HB3	1.26	1.13
1:B:743:GLN:NE2	1:C:872:GLU:OE2	1.82	1.13
1:F:616:SER:HB2	1:F:620:LYS:HD3	1.30	1.12
1:F:286:ILE:CD1	1:F:322:ARG:NE	2.01	1.12
1:C:169:LYS:CD	1:C:264:ARG:NE	1.76	1.12
1:F:699:MET:O	1:F:703:LEU:HG	1.49	1.12
1:C:654:LYS:HG3	1:C:655:LEU:H	0.95	1.11
1:A:332:GLU:OE2	1:A:334:ARG:NH1	1.83	1.11
1:C:360:GLU:OE2	1:C:365:VAL:N	1.79	1.11
1:D:843:ARG:HD3	1:D:846:LYS:HZ1	1.14	1.11
1:C:170:TYR:CZ	1:C:249:ALA:CA	2.31	1.11
1:C:650:TYR:OH	1:C:654:LYS:NZ	1.84	1.11
1:D:714:LYS:NZ	1:D:715:THR:O	1.84	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:331:PHE:HA	1:F:334:ARG:HG3	1.30	1.11
1:C:169:LYS:HD2	1:C:264:ARG:HD2	1.11	1.11
1:B:843:ARG:NH1	1:B:848:GLU:OE2	1.84	1.10
1:C:652:VAL:O	1:C:654:LYS:NZ	1.82	1.10
1:C:168:SER:CA	1:C:271:GLU:OE2	2.00	1.10
1:A:644:SER:HB3	1:A:687:GLU:HB2	1.32	1.10
1:E:617:GLY:N	2:E:1002:AGS:O1B	1.84	1.10
1:E:794:ARG:NH1	1:E:796:GLU:O	1.83	1.10
1:C:700:LEU:HA	1:C:703:LEU:HB2	1.33	1.09
1:A:229:ILE:HA	1:A:233:ASP:HB2	1.32	1.09
1:E:703:LEU:O	1:E:707:ARG:NH1	1.84	1.09
1:C:597:SER:O	1:C:598:ARG:NH1	1.83	1.09
1:F:285:GLU:HB2	1:F:288:MET:H	1.16	1.09
1:F:656:LEU:HD13	1:F:711:GLY:HA3	1.35	1.09
1:C:168:SER:HA	1:C:271:GLU:OE2	1.48	1.08
1:E:650:TYR:HB2	1:E:654:LYS:HG2	1.35	1.08
1:F:363:HIS:CE1	1:F:397:ASP:CA	2.35	1.08
1:A:778:LYS:O	1:A:782:LYS:NZ	1.86	1.08
1:F:715:THR:O	1:F:717:ASP:N	1.85	1.08
1:D:530:ARG:NH1	1:D:539:ASN:H	1.49	1.08
1:B:781:HIS:O	1:B:811:LYS:NZ	1.87	1.08
1:F:700:LEU:CG	1:F:703:LEU:HD21	1.83	1.08
1:F:702:MET:HB3	1:F:708:ILE:HG23	1.36	1.08
1:D:800:LYS:HG3	1:D:801:HIS:H	1.13	1.07
1:E:748:ASN:HA	1:E:751:MET:HG2	1.34	1.07
1:B:189:ARG:NH1	1:B:341:ALA:O	1.86	1.07
1:C:170:TYR:CZ	1:C:249:ALA:HA	1.89	1.07
1:F:701:GLN:OE1	1:F:709:THR:OG1	1.73	1.07
1:E:570:ILE:HA	1:E:595:ARG:HH12	1.06	1.07
1:D:785:ASP:OD1	1:D:789:LYS:N	1.88	1.07
1:B:829:ASN:HA	1:B:832:ILE:HB	1.29	1.06
1:C:205:LYS:NZ	1:C:334:ARG:H	1.53	1.06
1:F:356:GLN:HE21	1:F:367:ILE:HG21	1.19	1.06
1:E:169:LYS:NZ	1:E:264:ARG:O	1.88	1.06
1:F:785:ASP:HB3	1:F:789:LYS:HZ1	1.10	1.06
1:B:761:GLU:O	1:B:765:ARG:NH1	1.88	1.05
1:A:316:THR:HG21	1:A:322:ARG:HH11	1.18	1.05
1:C:642:ASP:HB2	1:C:645:GLU:HG2	1.35	1.05
1:D:683:LEU:HB3	1:D:723:VAL:HG22	1.36	1.05
1:B:633:ASN:ND2	1:B:636:ASP:OD2	1.90	1.05
1:B:698:VAL:HA	1:B:701:GLN:HB2	1.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:764:ASN:O	1:C:830:ARG:NH1	1.88	1.05
1:D:618:SER:O	1:D:826:ARG:NH1	1.89	1.05
1:E:794:ARG:HH12	1:E:796:GLU:C	1.59	1.05
1:C:637:MET:O	1:C:678:LYS:NZ	1.88	1.05
1:D:609:SER:HA	1:D:724:ILE:HG13	1.39	1.05
1:D:806:LEU:O	1:D:811:LYS:NZ	1.89	1.05
1:E:215:GLY:O	1:E:218:LYS:NZ	1.88	1.05
1:A:210:LEU:HD22	1:A:339:GLU:HA	1.39	1.05
1:D:205:LYS:NZ	1:D:332:GLU:OE2	1.89	1.05
1:D:617:GLY:O	1:D:826:ARG:NH1	1.89	1.05
1:D:857:VAL:HG12	1:D:859:LEU:H	1.20	1.05
1:F:331:PHE:CE1	1:F:334:ARG:O	2.09	1.05
1:B:282:PHE:HB3	1:B:313:ILE:H	1.22	1.04
1:C:168:SER:HB2	1:C:271:GLU:CD	1.74	1.04
1:C:195:SER:HA	1:C:198:ARG:HE	1.18	1.04
1:A:610:PHE:H	1:A:724:ILE:HG12	1.18	1.04
1:E:276:LYS:NZ	1:E:279:ILE:O	1.90	1.04
1:F:286:ILE:HD11	1:F:322:ARG:CD	1.59	1.04
1:C:712:GLN:O	1:C:714:LYS:NZ	1.90	1.04
1:B:244:PHE:H	1:B:281:LEU:HB3	1.18	1.04
1:C:260:ASP:HA	1:C:263:GLU:HG2	1.34	1.04
1:F:699:MET:O	1:F:703:LEU:CG	2.04	1.04
1:D:617:GLY:H	1:D:620:LYS:HE3	1.19	1.03
1:F:331:PHE:HA	1:F:334:ARG:CD	1.88	1.03
1:E:734:ILE:O	1:E:774:LYS:NZ	1.90	1.03
1:F:625:LYS:NZ	1:F:635:GLU:O	1.91	1.03
1:F:779:ALA:O	1:F:782:LYS:NZ	1.90	1.03
1:A:380:LYS:HZ1	1:A:381:ARG:HA	1.18	1.03
1:D:748:ASN:O	1:D:752:GLY:N	1.91	1.03
1:D:302:LYS:O	1:D:306:SER:N	1.90	1.03
1:E:332:GLU:HA	1:E:335:PHE:HB2	1.39	1.03
1:E:803:LYS:NZ	1:E:853:GLU:O	1.91	1.03
1:D:585:ASP:OD1	1:D:588:LYS:NZ	1.90	1.03
1:E:228:ARG:NH1	1:E:228:ARG:O	1.92	1.03
1:E:480:LYS:NZ	1:E:521:GLU:OE1	1.90	1.03
1:F:802:TYR:HA	1:F:852:LYS:HA	1.38	1.03
1:C:223:GLU:N	1:C:223:GLU:OE1	1.92	1.02
1:F:356:GLN:NE2	1:F:372:LEU:HD21	1.73	1.02
1:C:169:LYS:HD2	1:C:264:ARG:NH1	1.74	1.02
1:D:365:VAL:HG21	1:D:403:VAL:HG11	1.41	1.02
1:E:639:ILE:HG21	1:E:683:LEU:HD12	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:651:ALA:HA	1:E:656:LEU:HB2	1.41	1.02
1:E:857:VAL:HA	1:E:878:GLU:HA	1.41	1.02
1:F:704:ASP:HA	1:F:765:ARG:HD2	1.03	1.02
1:E:214:PRO:C	1:E:218:LYS:HZ1	1.62	1.02
1:A:380:LYS:NZ	1:A:381:ARG:HA	1.75	1.02
1:C:169:LYS:CD	1:C:264:ARG:CG	2.16	1.02
1:C:213:GLU:OE2	1:C:387:ARG:NH2	1.92	1.02
1:F:322:ARG:NH2	1:F:325:VAL:HG22	1.71	1.02
1:F:357:PRO:O	1:F:361:ILE:CB	2.07	1.02
1:F:744:GLU:HA	1:F:747:LYS:HZ3	1.25	1.02
1:D:783:ILE:HA	1:D:786:ILE:HD12	1.40	1.01
1:F:331:PHE:HA	1:F:334:ARG:HG2	1.03	1.01
1:D:755:ARG:HG3	1:D:756:GLN:H	1.25	1.01
1:E:737:GLN:O	1:E:774:LYS:NZ	1.93	1.01
1:F:363:HIS:HE1	1:F:397:ASP:HA	1.22	1.01
1:B:559:LYS:NZ	1:B:629:GLY:O	1.93	1.01
1:F:375:ALA:HA	1:F:378:LEU:HB2	1.43	1.01
1:E:174:MET:HG3	1:E:177:GLN:HB2	1.42	1.01
1:F:363:HIS:NE2	1:F:397:ASP:HA	1.73	1.01
1:C:169:LYS:CD	1:C:264:ARG:HD3	1.52	1.00
1:C:170:TYR:CE2	1:C:250:ALA:N	2.28	1.00
1:E:429:LYS:NZ	1:E:432:GLU:OE1	1.94	1.00
1:F:704:ASP:CA	1:F:765:ARG:HD2	1.90	1.00
1:B:263:GLU:HA	1:B:266:LYS:NZ	1.77	1.00
1:C:708:ILE:HG22	1:C:709:THR:H	1.26	1.00
1:F:286:ILE:HD11	1:F:322:ARG:HG3	1.42	1.00
1:B:803:LYS:NZ	1:B:804:LEU:O	1.93	1.00
1:F:167:LEU:H	1:F:169:LYS:HZ3	1.09	1.00
1:D:273:GLU:HG3	1:D:274:GLU:HG3	1.43	1.00
1:E:214:PRO:O	1:E:387:ARG:NH1	1.93	1.00
1:F:356:GLN:NE2	1:F:367:ILE:HD13	1.76	1.00
1:C:807:THR:OG1	1:C:809:GLU:OE2	1.79	1.00
1:C:216:ILE:H	1:C:218:LYS:HZ2	1.00	1.00
1:C:236:THR:HA	1:C:239:GLN:HB2	1.44	1.00
1:C:606:GLN:NE2	1:C:703:LEU:O	1.94	1.00
1:D:708:ILE:H	1:D:716:ILE:H	1.01	1.00
1:F:605:ARG:HH12	1:F:705:ASP:CB	1.75	1.00
1:F:704:ASP:CA	1:F:765:ARG:CD	2.40	1.00
1:C:169:LYS:CD	1:C:264:ARG:CZ	2.39	1.00
1:C:366:ARG:NH2	1:C:537:ILE:O	1.95	1.00
1:D:316:THR:C	1:D:321:TYR:CD2	2.33	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:PHE:HZ	1:D:749:LEU:HB3	1.25	0.99
1:C:168:SER:CB	1:C:271:GLU:OE1	2.10	0.99
1:E:206:SER:O	1:E:311:LYS:NZ	1.95	0.99
1:E:460:GLU:HA	1:E:463:ARG:NH1	1.78	0.99
1:B:639:ILE:HB	1:B:683:LEU:HA	1.42	0.99
1:B:189:ARG:HH12	1:B:341:ALA:C	1.65	0.99
1:D:842:LEU:O	1:D:846:LYS:NZ	1.95	0.99
1:E:302:LYS:HZ3	1:E:334:ARG:HD3	1.24	0.99
1:C:407:ARG:HD3	1:C:538:GLN:HA	1.41	0.99
1:F:707:ARG:HG3	1:F:715:THR:HG21	1.41	0.98
1:A:167:LEU:HA	1:A:271:GLU:OE2	1.63	0.98
1:C:210:LEU:HB2	1:C:338:ILE:H	1.25	0.98
1:D:681:SER:H	1:D:721:CYS:HA	1.27	0.98
1:C:169:LYS:HE3	1:C:264:ARG:HB2	1.01	0.98
1:F:331:PHE:CD1	1:F:335:PHE:N	2.31	0.98
1:B:806:LEU:HA	1:B:810:ALA:HB3	1.44	0.98
1:D:203:ARG:HH12	1:E:363:HIS:CG	1.81	0.98
1:D:548:GLU:HA	1:D:551:ALA:HB3	1.45	0.98
1:F:167:LEU:H	1:F:169:LYS:NZ	1.61	0.98
1:B:700:LEU:HA	1:B:703:LEU:HB2	1.43	0.98
1:C:686:ASP:HB3	1:C:690:LYS:HZ1	1.26	0.98
1:D:636:ASP:O	1:D:678:LYS:NZ	1.96	0.98
1:F:610:PHE:HA	1:F:768:SER:HB3	1.45	0.98
1:A:205:LYS:H	1:A:334:ARG:HD2	1.27	0.98
1:A:818:GLY:HA3	1:A:828:LEU:HD13	1.44	0.98
1:D:414:LEU:O	1:D:418:GLU:N	1.94	0.97
1:F:241:ALA:HA	1:F:279:ILE:HB	1.45	0.97
1:D:843:ARG:HH12	1:D:881:PRO:C	1.67	0.97
1:F:322:ARG:CZ	1:F:325:VAL:HG23	1.94	0.97
1:B:548:GLU:N	1:B:560:LYS:HZ2	1.61	0.97
1:D:804:LEU:HD12	1:D:855:VAL:H	1.30	0.97
1:A:776:SER:O	1:A:780:ILE:N	1.98	0.97
1:F:356:GLN:OE1	1:F:372:LEU:HD21	1.65	0.97
1:D:189:ARG:HH12	1:D:341:ALA:HB3	1.27	0.97
1:E:270:LYS:HZ3	1:E:274:GLU:HA	1.26	0.97
1:C:169:LYS:HG2	1:C:264:ARG:HD3	1.46	0.97
1:C:264:ARG:NH2	1:C:271:GLU:OE2	1.98	0.97
1:F:704:ASP:CG	1:F:765:ARG:HE	1.59	0.97
1:B:208:PRO:HD2	1:B:313:ILE:HA	1.41	0.97
1:B:563:GLU:OE1	1:B:568:LYS:NZ	1.97	0.97
1:F:286:ILE:CD1	1:F:322:ARG:CG	2.26	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:319:ASN:HA	1:F:323:SER:OG	1.64	0.97
1:F:700:LEU:HG	1:F:703:LEU:HD21	1.45	0.97
1:A:872:GLU:HG2	1:F:200:LEU:HB2	1.46	0.97
1:D:223:GLU:HA	1:D:226:ALA:HB3	1.46	0.97
1:C:618:SER:O	1:C:826:ARG:NH1	1.97	0.97
1:E:592:ASN:O	1:E:596:LEU:N	1.98	0.97
1:F:607:PRO:HG3	1:F:703:LEU:O	1.65	0.97
1:A:705:ASP:OD2	1:A:707:ARG:NH2	1.98	0.96
1:D:847:ASN:OD1	1:D:850:LYS:NZ	1.98	0.96
1:C:282:PHE:HA	1:C:312:VAL:HG23	1.43	0.96
1:C:397:ASP:O	1:C:401:ALA:N	1.97	0.96
1:E:645:GLU:OE1	1:E:649:LYS:NZ	1.99	0.96
1:B:286:ILE:O	1:B:290:MET:N	1.97	0.96
1:C:654:LYS:HG3	1:C:655:LEU:N	1.76	0.96
1:D:622:GLU:OE2	1:D:787:ARG:NH2	1.96	0.96
1:A:169:LYS:HZ2	1:A:264:ARG:CZ	1.79	0.96
1:C:216:ILE:H	1:C:218:LYS:NZ	1.63	0.96
1:D:316:THR:O	1:D:321:TYR:CE2	2.18	0.96
1:D:843:ARG:NH1	1:D:881:PRO:O	1.97	0.96
1:E:610:PHE:H	1:E:724:ILE:HA	1.30	0.96
1:F:286:ILE:CG1	1:F:322:ARG:HD3	1.94	0.96
1:F:294:LYS:HE2	1:F:325:VAL:HG12	1.47	0.96
1:F:356:GLN:CD	1:F:372:LEU:HD21	1.86	0.96
1:A:307:ARG:H	1:A:310:LEU:HD12	1.29	0.96
1:A:786:ILE:HD13	1:A:789:LYS:HZ1	1.30	0.96
1:D:407:ARG:HA	1:D:411:PRO:HA	1.47	0.96
1:E:193:ILE:O	1:E:197:ILE:N	1.97	0.96
1:F:702:MET:SD	1:F:708:ILE:CG2	2.54	0.96
1:B:203:ARG:NH1	1:C:362:HIS:HB2	1.80	0.96
1:D:530:ARG:HH12	1:D:537:ILE:C	1.69	0.96
1:F:286:ILE:HD11	1:F:322:ARG:HG2	1.43	0.96
1:B:205:LYS:HE3	1:B:334:ARG:HA	1.45	0.96
1:D:812:ASP:O	1:D:816:LYS:N	1.98	0.96
1:B:620:LYS:NZ	1:B:826:ARG:NH1	2.14	0.96
1:F:678:LYS:NZ	1:F:679:PRO:O	1.98	0.96
1:D:744:GLU:HB2	1:D:746:THR:HG23	1.47	0.95
1:A:174:MET:SD	1:A:177:GLN:NE2	2.39	0.95
1:B:685:PHE:HD1	1:B:725:MET:HB3	1.26	0.95
1:B:831:LEU:HD12	1:B:834:ASN:HB2	1.48	0.95
1:C:787:ARG:NH1	1:C:826:ARG:HH21	1.64	0.95
2:E:1002:AGS:O1B	2:E:1002:AGS:O2G	1.77	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:405:VAL:O	1:C:409:SER:OG	1.84	0.95
1:C:485:GLU:HA	1:C:488:ASN:HB3	1.48	0.95
1:D:570:ILE:HA	1:D:595:ARG:HH12	1.30	0.95
1:E:186:VAL:HG21	1:E:220:ALA:HB1	1.46	0.95
1:E:248:LEU:O	1:E:252:THR:N	1.99	0.95
1:C:395:LEU:O	1:C:399:SER:N	1.99	0.95
1:C:799:ASP:O	1:C:850:LYS:NZ	1.98	0.95
1:E:576:LEU:HA	1:E:579:GLU:HG2	1.46	0.95
1:F:202:ARG:HH12	1:F:208:PRO:HD3	1.32	0.95
1:A:707:ARG:HA	1:A:717:ASP:HA	1.49	0.95
1:E:284:ASP:O	1:E:287:HIS:ND1	1.99	0.95
1:F:331:PHE:CD1	1:F:334:ARG:C	2.40	0.95
1:C:622:GLU:OE2	1:C:787:ARG:NH2	2.00	0.94
1:E:207:ASN:OD1	1:E:311:LYS:NZ	1.99	0.94
1:E:226:ALA:HA	1:E:229:ILE:HD12	1.50	0.94
1:F:356:GLN:HE22	1:F:372:LEU:HD21	1.31	0.94
1:B:843:ARG:HA	1:B:846:LYS:HB2	1.49	0.94
1:D:203:ARG:HD2	1:E:362:HIS:HB3	1.46	0.94
1:C:785:ASP:OD1	1:C:786:ILE:N	1.98	0.94
1:D:572:MET:O	1:D:576:LEU:N	2.00	0.94
1:E:569:LEU:HA	1:E:630:PHE:HZ	1.33	0.94
1:C:170:TYR:CE1	1:C:249:ALA:CA	2.48	0.94
1:C:392:ALA:O	1:C:396:VAL:N	1.99	0.94
1:B:211:ILE:HD13	1:B:321:TYR:HB2	1.45	0.94
1:B:331:PHE:O	1:B:334:ARG:N	2.00	0.94
1:C:158:ALA:O	1:C:159:ASP:O	1.85	0.94
1:F:556:ILE:HG12	1:F:559:LYS:HZ3	1.33	0.94
1:A:608:ALA:HB1	1:A:767:SER:HB3	1.48	0.94
1:C:205:LYS:HZ2	1:C:334:ARG:H	1.07	0.94
1:C:226:ALA:O	1:C:230:ILE:N	1.99	0.94
1:D:354:GLY:O	1:D:358:LYS:NZ	1.98	0.94
1:E:186:VAL:HA	2:E:1001:AGS:C6	1.96	0.94
1:E:216:ILE:HG22	1:E:218:LYS:HZ2	1.32	0.94
1:F:356:GLN:HB3	1:F:357:PRO:HD3	1.48	0.94
1:F:591:SER:O	1:F:595:ARG:NH1	2.00	0.94
1:F:702:MET:SD	1:F:708:ILE:HG21	2.08	0.94
1:A:177:GLN:HB2	1:A:182:LYS:HZ1	1.33	0.94
1:B:357:PRO:O	1:B:361:ILE:N	2.01	0.94
1:A:176:GLU:HA	1:A:179:ARG:HB3	1.49	0.94
1:A:205:LYS:HZ3	1:B:397:ASP:HB3	1.31	0.93
1:C:169:LYS:HD2	1:C:264:ARG:CZ	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:794:ARG:NH1	1:F:795:PHE:HE1	1.66	0.93
1:C:403:VAL:O	1:C:407:ARG:N	2.00	0.93
1:D:802:TYR:CE2	1:D:804:LEU:HB2	2.04	0.93
1:E:366:ARG:NH1	1:E:539:ASN:OD1	2.00	0.93
1:F:670:PHE:O	1:F:674:GLN:N	2.01	0.93
1:C:14:ILE:CA	1:C:160:THR:H	1.82	0.93
1:C:169:LYS:N	1:C:264:ARG:CZ	2.31	0.93
1:E:570:ILE:CA	1:E:595:ARG:HH12	1.81	0.93
1:B:569:LEU:O	1:B:595:ARG:NH2	2.00	0.93
1:B:820:SER:HB3	1:B:824:GLY:H	1.33	0.93
1:D:843:ARG:HD3	1:D:846:LYS:NZ	1.82	0.93
1:D:218:LYS:HZ2	2:D:1001:AGS:PB	1.92	0.93
1:F:794:ARG:HH11	1:F:795:PHE:HE1	1.09	0.93
1:C:733:PHE:HZ	1:C:749:LEU:HB2	1.33	0.93
1:D:285:GLU:HB3	1:D:287:HIS:HB3	1.47	0.93
1:E:570:ILE:HA	1:E:595:ARG:NH1	1.83	0.93
1:B:214:PRO:HA	1:B:218:LYS:HB3	1.47	0.93
1:C:785:ASP:O	1:C:789:LYS:N	2.02	0.93
1:E:330:ALA:HA	1:E:333:ARG:HB2	1.49	0.93
1:E:659:THR:HG23	1:E:711:GLY:HA2	1.48	0.93
1:F:194:ARG:N	1:F:228:ARG:HH12	1.65	0.93
1:E:378:LEU:HA	1:E:381:ARG:HB3	1.48	0.93
1:E:839:LYS:O	1:E:843:ARG:N	2.02	0.93
1:D:488:ASN:HA	1:D:491:LEU:HB3	1.51	0.93
1:D:567:GLU:OE2	1:D:571:HIS:NE2	2.01	0.93
1:D:811:LYS:H	1:D:811:LYS:HD2	1.34	0.93
1:F:195:SER:O	1:F:202:ARG:NH2	2.01	0.93
1:F:564:SER:H	1:F:568:LYS:HD2	1.31	0.93
1:D:247:ASP:OD2	1:D:284:ASP:N	2.00	0.92
1:D:682:VAL:HG22	1:D:722:ILE:HB	1.50	0.92
1:E:628:ALA:O	1:E:632:PHE:N	2.02	0.92
1:B:614:GLY:HA3	1:B:772:PHE:HB3	1.52	0.92
1:C:173:ASP:OD2	1:C:176:GLU:HG3	1.70	0.92
1:C:302:LYS:O	1:C:306:SER:N	2.01	0.92
1:E:247:ASP:HB3	1:E:250:ALA:H	1.32	0.92
1:F:576:LEU:HD22	1:F:627:VAL:HG12	1.52	0.92
1:F:699:MET:C	1:F:703:LEU:HG	1.88	0.92
1:B:353:ARG:NH1	1:B:373:VAL:HG23	1.84	0.92
1:C:800:LYS:HD3	1:C:850:LYS:HD2	1.48	0.92
1:D:779:ALA:O	1:D:782:LYS:NZ	2.01	0.92
1:F:656:LEU:HD13	1:F:711:GLY:CA	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:830:ARG:HH22	1:F:275:SER:H	1.16	0.92
1:E:548:GLU:HB3	1:E:552:ARG:NH1	1.84	0.92
1:E:712:GLN:H	1:E:714:LYS:NZ	1.66	0.92
1:F:349:VAL:HA	1:F:352:LEU:HB3	1.51	0.92
1:C:344:SER:N	1:C:347:GLN:OE1	2.02	0.92
1:A:277:THR:O	1:A:309:GLN:NE2	2.02	0.92
1:B:646:LEU:N	1:B:692:HIS:H	1.67	0.92
1:C:169:LYS:HG2	1:C:264:ARG:CD	1.99	0.92
1:C:465:ARG:HH12	1:C:529:ARG:HD2	1.31	0.92
1:E:646:LEU:H	1:E:649:LYS:HD2	1.34	0.92
1:A:375:ALA:O	1:A:379:ALA:N	2.02	0.92
1:B:251:LEU:H	1:B:264:ARG:NH1	1.67	0.92
1:B:548:GLU:HG2	1:B:560:LYS:HZ3	1.33	0.92
1:B:760:PRO:O	1:B:764:ASN:N	2.03	0.92
1:B:785:ASP:OD1	1:B:811:LYS:NZ	2.03	0.92
1:C:843:ARG:NH1	1:C:848:GLU:OE1	2.03	0.92
1:E:173:ASP:O	1:E:175:THR:N	2.02	0.92
1:C:557:PRO:O	1:C:560:LYS:N	2.00	0.92
1:C:558:VAL:HA	1:C:561:LEU:HG	1.50	0.92
1:A:777:ARG:HA	1:A:780:ILE:HG12	1.50	0.92
1:D:790:GLU:O	1:D:794:ARG:NH2	2.03	0.92
1:D:799:ASP:H	1:D:801:HIS:CD2	1.87	0.92
1:D:857:VAL:HG11	1:D:878:GLU:HA	1.52	0.92
1:F:349:VAL:O	1:F:353:ARG:N	2.03	0.92
1:A:696:LEU:HA	1:A:699:MET:HB3	1.50	0.91
1:B:620:LYS:HG3	1:B:621:THR:H	1.34	0.91
1:E:378:LEU:O	1:E:382:TYR:N	2.02	0.91
1:B:188:GLY:N	1:B:190:GLU:OE2	2.01	0.91
1:B:646:LEU:H	1:B:691:ALA:H	1.17	0.91
1:D:202:ARG:HH12	1:D:205:LYS:HG2	1.35	0.91
1:D:587:ILE:O	1:D:591:SER:N	2.04	0.91
1:D:605:ARG:NH1	1:D:717:ASP:OD1	2.01	0.91
1:D:299:ASN:OD1	1:D:300:ILE:N	2.03	0.91
1:D:413:GLU:OE2	1:D:539:ASN:ND2	2.02	0.91
1:C:616:SER:HA	1:C:620:LYS:HD3	1.51	0.91
1:E:637:MET:HA	1:E:678:LYS:NZ	1.86	0.91
1:F:737:GLN:HG2	1:F:742:ILE:HD11	1.52	0.91
1:A:546:ILE:O	1:A:550:ALA:N	2.02	0.91
1:C:169:LYS:N	1:C:264:ARG:NE	2.19	0.91
1:D:800:LYS:HG3	1:D:801:HIS:N	1.84	0.91
1:E:760:PRO:HA	1:E:763:LEU:HB2	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:432:GLU:HA	1:D:445:LEU:HD22	1.51	0.91
1:D:840:LEU:O	1:D:844:ILE:N	2.03	0.91
1:E:712:GLN:H	1:E:714:LYS:HZ2	1.01	0.91
1:B:842:LEU:O	1:B:846:LYS:N	2.03	0.91
1:D:223:GLU:O	1:D:227:GLN:N	2.04	0.91
1:D:570:ILE:HA	1:D:595:ARG:NH1	1.85	0.91
1:D:697:THR:O	1:D:701:GLN:NE2	2.03	0.91
2:D:1001:AGS:H5'2	2:D:1001:AGS:H8	1.51	0.91
1:B:192:GLU:OE1	1:B:192:GLU:N	2.02	0.91
1:B:202:ARG:NH1	1:B:205:LYS:HB2	1.86	0.91
1:C:172:ILE:H	1:C:244:PHE:HB3	1.33	0.91
1:B:377:GLN:O	1:B:381:ARG:N	2.04	0.91
1:C:169:LYS:HD3	1:C:264:ARG:CZ	1.97	0.91
1:C:588:LYS:O	1:C:592:ASN:N	2.04	0.91
1:C:857:VAL:HA	1:C:880:LEU:HB3	1.52	0.91
1:F:331:PHE:CZ	1:F:334:ARG:O	2.24	0.91
1:F:702:MET:CB	1:F:708:ILE:HG13	2.00	0.91
1:B:590:VAL:O	1:B:594:VAL:N	2.04	0.91
1:D:251:LEU:O	1:D:254:GLY:N	2.03	0.91
1:E:407:ARG:NH1	1:E:538:GLN:OE1	2.04	0.91
1:F:879:VAL:HG12	1:F:880:LEU:H	1.34	0.91
1:D:625:LYS:O	1:D:629:GLY:N	2.03	0.90
1:F:584:MET:HB3	1:F:588:LYS:NZ	1.86	0.90
1:C:831:LEU:O	1:C:834:ASN:N	2.04	0.90
1:E:189:ARG:NE	1:E:192:GLU:OE2	2.03	0.90
1:F:699:MET:O	1:F:703:LEU:CD1	2.04	0.90
1:B:559:LYS:HZ2	1:B:630:PHE:C	1.73	0.90
1:C:835:GLU:HA	1:C:838:ASN:HD21	1.35	0.90
1:D:262:GLU:HB2	1:D:298:ALA:HB2	1.53	0.90
1:D:701:GLN:H	1:D:701:GLN:CD	1.73	0.90
1:C:342:GLU:OE2	1:C:388:LEU:N	2.05	0.90
1:D:302:LYS:NZ	1:D:306:SER:HA	1.84	0.90
1:D:672:THR:HA	1:D:675:LEU:HG	1.52	0.90
1:E:845:LEU:N	1:E:848:GLU:OE2	2.05	0.90
1:B:210:LEU:HD21	1:B:337:LYS:HZ3	1.35	0.90
1:C:248:LEU:HG	1:C:251:LEU:HD21	1.52	0.90
1:C:480:LYS:O	1:C:484:ASP:N	2.03	0.90
1:C:605:ARG:NH2	1:C:606:GLN:OE1	2.04	0.90
1:A:621:THR:O	1:A:625:LYS:N	2.03	0.90
1:C:617:GLY:H	1:C:620:LYS:HE3	1.33	0.90
1:E:290:MET:N	1:E:295:ASP:OD2	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:712:GLN:N	1:E:714:LYS:HZ2	1.68	0.90
1:F:172:ILE:HG12	1:F:245:SER:H	1.35	0.90
1:F:356:GLN:HB3	1:F:357:PRO:HD2	1.50	0.90
1:C:189:ARG:HH22	1:C:342:GLU:HA	1.35	0.90
1:D:243:LEU:HD21	1:D:282:PHE:HB2	1.54	0.90
1:F:357:PRO:O	1:F:361:ILE:HG13	1.72	0.90
1:F:605:ARG:NH1	1:F:705:ASP:HB3	1.85	0.90
1:B:349:VAL:O	1:B:353:ARG:N	2.03	0.90
1:B:544:ASP:O	1:B:548:GLU:N	2.04	0.90
1:D:357:PRO:O	1:D:361:ILE:N	2.03	0.90
1:E:192:GLU:O	1:E:196:THR:N	2.05	0.90
1:E:622:GLU:O	1:E:626:LYS:N	2.05	0.90
1:F:299:ASN:HB3	1:F:302:LYS:HE3	1.53	0.90
1:A:695:VAL:O	1:A:699:MET:N	2.05	0.90
1:C:407:ARG:NH2	1:C:536:MET:O	2.04	0.90
1:C:796:GLU:N	1:C:802:TYR:OH	2.04	0.90
1:D:359:TYR:O	1:D:363:HIS:N	2.03	0.90
1:D:634:ASP:OD2	1:D:637:MET:N	2.05	0.90
1:F:260:ASP:O	1:F:264:ARG:N	2.05	0.90
1:F:702:MET:CB	1:F:708:ILE:HG23	2.01	0.90
1:A:356:GLN:HB2	1:A:360:GLU:HB2	1.51	0.90
1:B:803:LYS:HZ3	1:B:854:THR:HG23	1.37	0.90
1:C:640:ARG:HA	1:C:684:LEU:HB3	1.51	0.90
1:D:669:GLY:HA2	1:D:672:THR:HB	1.51	0.90
1:D:736:SER:OG	1:D:774:LYS:NZ	2.03	0.90
1:D:789:LYS:NZ	1:D:793:GLU:OE2	2.05	0.90
1:F:556:ILE:HG12	1:F:559:LYS:NZ	1.86	0.90
1:A:613:LEU:HD21	1:A:726:THR:HB	1.53	0.89
1:B:353:ARG:HH12	1:B:372:LEU:HB2	1.38	0.89
1:B:620:LYS:HZ2	1:B:826:ARG:NH1	1.70	0.89
1:C:579:GLU:HB2	1:C:626:LYS:NZ	1.87	0.89
1:D:258:LYS:NZ	1:D:262:GLU:HB3	1.87	0.89
1:D:271:GLU:HG2	1:D:276:LYS:NZ	1.87	0.89
1:C:814:LEU:O	1:C:818:GLY:N	2.05	0.89
1:D:536:MET:O	1:D:538:GLN:NE2	2.05	0.89
1:E:396:VAL:O	1:E:399:SER:OG	1.91	0.89
1:E:700:LEU:O	1:E:704:ASP:N	2.05	0.89
1:A:217:GLY:O	1:A:221:ILE:N	2.05	0.89
1:B:783:ILE:HA	1:B:786:ILE:HD12	1.55	0.89
1:C:170:TYR:HH	1:C:250:ALA:H	1.12	0.89
1:D:804:LEU:H	1:D:854:THR:HG23	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:842:LEU:HB3	1:B:846:LYS:HZ3	1.34	0.89
1:C:189:ARG:O	1:C:193:ILE:N	2.05	0.89
1:C:542:ASP:O	1:C:546:ILE:N	2.05	0.89
1:E:471:HIS:O	1:E:475:GLU:N	2.05	0.89
1:F:703:LEU:HD12	1:F:703:LEU:H	1.36	0.89
1:C:174:MET:HG2	1:C:242:LYS:NZ	1.88	0.89
1:E:205:LYS:HB2	1:E:336:GLN:HE22	1.35	0.89
1:E:296:ASP:HA	1:E:299:ASN:HB3	1.55	0.89
1:E:709:THR:H	1:E:716:ILE:H	1.17	0.89
1:A:796:GLU:HG2	1:A:799:ASP:HB2	1.54	0.89
1:D:661:GLY:H	1:D:665:TYR:HE1	1.20	0.89
1:E:837:LEU:O	1:E:840:LEU:N	2.05	0.89
1:F:657:GLY:HA3	1:F:667:GLU:HB2	1.54	0.89
1:F:687:GLU:HA	1:F:727:SER:HA	1.53	0.89
1:F:783:ILE:HA	1:F:786:ILE:HD12	1.51	0.89
1:A:302:LYS:HE3	1:A:310:LEU:HD22	1.54	0.89
1:B:736:SER:OG	1:B:774:LYS:NZ	2.04	0.89
1:F:695:VAL:O	1:F:699:MET:N	2.06	0.89
1:A:260:ASP:O	1:A:264:ARG:N	2.04	0.89
1:C:674:GLN:O	1:C:678:LYS:N	2.06	0.89
1:D:575:ASP:O	1:D:578:SER:N	2.05	0.89
1:E:798:ASN:HA	1:E:801:HIS:HB2	1.53	0.89
1:F:363:HIS:NE2	1:F:396:VAL:O	2.04	0.89
1:F:585:ASP:O	1:F:589:ALA:N	2.06	0.89
1:C:592:ASN:OD1	1:C:595:ARG:NH1	2.06	0.88
1:E:464:GLN:O	1:E:468:GLU:N	2.06	0.88
1:F:843:ARG:HH21	1:F:849:ILE:HG21	1.38	0.88
1:A:640:ARG:HG3	1:A:684:LEU:HD11	1.54	0.88
1:C:843:ARG:NH1	1:C:848:GLU:HB2	1.87	0.88
1:D:414:LEU:HA	1:D:417:LYS:HB3	1.56	0.88
1:A:790:GLU:O	1:A:794:ARG:NH1	2.05	0.88
1:B:400:CYS:O	1:B:404:ALA:N	2.05	0.88
1:B:698:VAL:O	1:B:702:MET:N	2.07	0.88
1:D:376:ALA:O	1:D:380:LYS:N	2.05	0.88
1:A:250:ALA:HA	1:A:264:ARG:NH1	1.88	0.88
1:A:264:ARG:O	1:A:268:VAL:N	2.06	0.88
1:B:685:PHE:CD1	1:B:725:MET:HB3	2.08	0.88
1:C:174:MET:HE2	1:C:244:PHE:HA	1.55	0.88
1:C:784:VAL:HG23	1:C:785:ASP:H	1.38	0.88
1:F:286:ILE:CD1	1:F:322:ARG:HE	1.79	0.88
1:C:593:ALA:O	1:C:597:SER:N	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:CYS:SG	1:A:210:LEU:N	2.47	0.88
1:B:192:GLU:O	1:B:195:SER:OG	1.91	0.88
1:C:174:MET:HG2	1:C:242:LYS:HZ3	1.36	0.88
1:E:410:LYS:HE3	1:E:463:ARG:HB2	1.56	0.88
1:E:743:GLN:O	1:E:747:LYS:NZ	2.05	0.88
1:A:640:ARG:HA	1:A:684:LEU:HG	1.55	0.88
1:B:209:CYS:HB3	1:B:315:ALA:HB2	1.55	0.88
1:F:375:ALA:O	1:F:379:ALA:N	2.06	0.88
1:F:605:ARG:CG	1:F:707:ARG:H	1.85	0.88
1:F:829:ASN:OD1	1:F:830:ARG:N	2.06	0.88
1:A:669:GLY:O	1:A:673:ASN:N	2.07	0.88
1:B:306:SER:OG	1:B:307:ARG:NH1	2.06	0.88
1:B:360:GLU:O	1:B:364:GLY:N	2.07	0.88
1:B:565:GLU:N	1:B:568:LYS:HZ1	1.72	0.88
1:C:14:ILE:CA	1:C:160:THR:N	2.36	0.88
1:C:595:ARG:O	1:C:599:SER:N	2.06	0.88
1:E:529:ARG:HG3	1:E:530:ARG:H	1.39	0.88
1:E:806:LEU:HB2	1:E:810:ALA:HB2	1.54	0.88
1:B:549:THR:HG22	1:B:552:ARG:NH1	1.88	0.88
1:D:556:ILE:HG22	1:D:559:LYS:HZ1	1.38	0.88
1:E:349:VAL:O	1:E:353:ARG:N	2.06	0.88
1:E:569:LEU:HG	1:E:595:ARG:NH1	1.89	0.88
1:E:754:VAL:HA	1:E:757:HIS:CD2	2.09	0.88
1:A:174:MET:HA	1:A:177:GLN:HE21	1.38	0.88
1:B:620:LYS:NZ	1:B:826:ARG:HH12	1.72	0.88
1:D:834:ASN:O	1:D:838:ASN:N	2.07	0.88
1:E:203:ARG:HD3	1:F:359:TYR:CE1	2.08	0.88
1:F:357:PRO:O	1:F:361:ILE:CG1	2.21	0.88
1:A:221:ILE:O	1:A:225:VAL:N	2.06	0.87
1:C:622:GLU:H	1:C:826:ARG:HH12	1.21	0.87
1:D:166:TYR:O	1:D:170:TYR:N	2.05	0.87
1:D:285:GLU:HB2	1:D:288:MET:HG2	1.56	0.87
1:E:301:LEU:HA	1:E:304:ALA:HB3	1.55	0.87
1:E:456:GLN:OE1	1:E:463:ARG:NH2	2.06	0.87
1:F:356:GLN:OE1	1:F:372:LEU:CD2	2.22	0.87
1:A:206:SER:H	1:A:334:ARG:HB3	1.37	0.87
1:B:611:LEU:HD23	1:B:766:ILE:HG21	1.56	0.87
1:B:823:MET:HB3	1:B:827:PRO:HG2	1.54	0.87
1:C:301:LEU:HB2	1:C:305:LEU:HD12	1.56	0.87
1:C:650:TYR:OH	1:C:652:VAL:O	1.91	0.87
1:C:682:VAL:HG23	1:C:723:VAL:HA	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:697:THR:O	1:C:701:GLN:N	2.06	0.87
1:C:790:GLU:O	1:C:794:ARG:N	2.06	0.87
1:B:825:ALA:O	1:B:829:ASN:N	2.07	0.87
1:B:829:ASN:O	1:B:833:GLN:N	2.08	0.87
1:C:614:GLY:HA2	1:C:728:ALA:HA	1.55	0.87
1:C:671:LEU:O	1:C:675:LEU:N	2.06	0.87
1:E:609:SER:HA	1:E:724:ILE:HD13	1.56	0.87
1:B:353:ARG:HH11	1:B:373:VAL:CG2	1.87	0.87
1:B:644:SER:OG	1:B:645:GLU:OE2	1.93	0.87
1:B:693:PRO:O	1:B:696:LEU:N	2.07	0.87
1:C:170:TYR:OH	1:C:249:ALA:CB	2.22	0.87
1:C:185:PRO:HD2	1:C:358:LYS:HE2	1.57	0.87
1:C:577:SER:HA	1:C:581:VAL:H	1.39	0.87
1:E:777:ARG:O	1:E:781:HIS:N	2.08	0.87
1:A:547:SER:O	1:A:551:ALA:N	2.07	0.87
1:B:171:ALA:HA	1:B:246:LEU:HD21	1.57	0.87
1:C:267:GLY:O	1:C:271:GLU:N	2.07	0.87
1:D:227:GLN:NE2	1:D:231:ASP:OD1	2.07	0.87
1:D:246:LEU:HD21	1:D:250:ALA:H	1.38	0.87
1:B:248:LEU:HD22	1:B:253:ALA:HA	1.54	0.87
1:D:258:LYS:NZ	1:D:261:PHE:HD2	1.72	0.87
1:D:470:LYS:O	1:D:474:GLU:N	2.06	0.87
1:E:833:GLN:OE1	1:E:833:GLN:N	2.06	0.87
2:E:1001:AGS:O1A	2:E:1001:AGS:O1B	1.87	0.87
1:A:832:ILE:HA	1:A:835:GLU:OE2	1.74	0.87
1:C:471:HIS:HA	1:C:474:GLU:HB3	1.55	0.87
1:E:410:LYS:O	1:E:414:LEU:N	2.06	0.87
1:F:303:PRO:O	1:F:307:ARG:N	2.06	0.87
1:F:605:ARG:HG2	1:F:706:GLY:HA3	1.57	0.87
1:B:764:ASN:OD1	1:C:830:ARG:NH1	2.08	0.87
1:D:258:LYS:HZ3	1:D:261:PHE:HD2	0.88	0.87
1:D:574:ARG:O	1:D:577:SER:OG	1.92	0.87
1:D:814:LEU:O	1:D:818:GLY:N	2.08	0.87
1:E:573:GLU:O	1:E:577:SER:N	2.07	0.87
1:E:627:VAL:O	1:E:631:LEU:N	2.08	0.87
1:E:688:VAL:HG13	1:E:690:LYS:H	1.39	0.87
1:E:763:LEU:HA	1:E:766:ILE:HD12	1.56	0.87
1:B:547:SER:HB3	1:B:560:LYS:HZ1	1.38	0.86
1:C:210:LEU:CB	1:C:338:ILE:H	1.87	0.86
1:C:214:PRO:O	1:C:387:ARG:NE	2.09	0.86
1:C:812:ASP:O	1:C:816:LYS:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:543:SER:HA	1:A:547:SER:HB3	1.55	0.86
1:B:167:LEU:HD22	1:B:271:GLU:HA	1.55	0.86
1:D:469:GLU:O	1:D:473:HIS:N	2.08	0.86
1:F:796:GLU:HG3	1:F:799:ASP:H	1.39	0.86
1:A:646:LEU:HD12	1:A:692:HIS:H	1.40	0.86
1:A:698:VAL:O	1:A:702:MET:N	2.08	0.86
1:A:372:LEU:HA	1:A:542:ASP:HB3	1.56	0.86
1:C:628:ALA:O	1:C:633:ASN:ND2	2.09	0.86
1:D:389:PRO:O	1:D:393:LEU:N	2.08	0.86
1:D:650:TYR:HD2	1:D:654:LYS:HB3	1.37	0.86
1:E:620:LYS:HZ3	2:E:1002:AGS:PA	1.97	0.86
1:F:286:ILE:HD12	1:F:322:ARG:HD3	1.13	0.86
1:F:395:LEU:HA	1:F:398:ILE:HB	1.57	0.86
1:B:579:GLU:OE2	1:B:626:LYS:HE2	1.76	0.86
1:B:622:GLU:H	1:B:826:ARG:NH2	1.73	0.86
1:B:750:VAL:O	1:B:754:VAL:N	2.08	0.86
1:C:170:TYR:CZ	1:C:249:ALA:HB1	2.09	0.86
1:C:190:GLU:O	1:C:194:ARG:N	2.08	0.86
1:C:783:ILE:HG22	1:C:787:ARG:HG2	1.56	0.86
1:D:833:GLN:O	1:D:837:LEU:N	2.08	0.86
1:E:704:ASP:HA	1:E:765:ARG:NH1	1.91	0.86
1:F:363:HIS:CE1	1:F:400:CYS:HG	1.93	0.86
1:A:218:LYS:HG3	1:A:219:THR:H	1.40	0.86
1:A:804:LEU:N	1:A:853:GLU:O	2.08	0.86
1:B:839:LYS:HZ3	1:B:877:LEU:HA	1.40	0.86
1:F:556:ILE:HG13	1:F:559:LYS:H	1.41	0.86
1:F:699:MET:O	1:F:703:LEU:HD12	1.76	0.86
1:B:287:HIS:O	1:B:291:GLY:N	2.07	0.86
1:B:654:LYS:HD3	1:B:692:HIS:HB3	1.57	0.86
1:E:621:THR:N	2:E:1002:AGS:O1A	2.08	0.86
1:F:179:ARG:NH1	1:F:179:ARG:O	2.08	0.86
1:F:322:ARG:NH2	1:F:322:ARG:O	2.08	0.86
1:B:193:ILE:O	1:B:197:ILE:N	2.09	0.86
1:D:377:GLN:N	1:D:377:GLN:OE1	2.08	0.86
1:F:316:THR:HG21	1:F:322:ARG:HG2	1.55	0.86
1:F:605:ARG:NH1	1:F:706:GLY:H	1.74	0.86
1:E:364:GLY:O	1:E:407:ARG:NH1	2.09	0.86
1:F:744:GLU:HG3	1:F:747:LYS:HB2	1.58	0.86
1:A:572:MET:HB2	1:A:630:PHE:HE1	1.40	0.86
1:B:322:ARG:O	1:B:326:GLU:N	2.08	0.86
1:C:167:LEU:O	1:C:264:ARG:NH2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:170:TYR:CZ	1:C:249:ALA:C	2.47	0.86
1:C:465:ARG:NH1	1:C:529:ARG:NH1	2.24	0.85
1:D:225:VAL:O	1:D:229:ILE:N	2.09	0.85
1:D:755:ARG:NH1	1:D:756:GLN:HB3	1.90	0.85
1:E:550:ALA:O	1:E:554:THR:N	2.08	0.85
1:E:558:VAL:O	1:E:562:SER:N	2.08	0.85
1:E:754:VAL:HA	1:E:757:HIS:HD2	1.39	0.85
1:F:307:ARG:NH1	1:F:333:ARG:HH12	1.73	0.85
1:A:200:LEU:HD12	1:A:201:ALA:HA	1.58	0.85
1:A:248:LEU:HB2	1:A:251:LEU:HD13	1.57	0.85
1:A:779:ALA:O	1:A:782:LYS:NZ	2.08	0.85
1:B:265:PHE:O	1:B:269:LEU:N	2.08	0.85
1:B:842:LEU:HB3	1:B:846:LYS:NZ	1.91	0.85
1:C:243:LEU:HD21	1:C:282:PHE:HB3	1.56	0.85
1:C:875:GLU:HG2	1:C:876:CYS:H	1.41	0.85
1:D:242:LYS:O	1:D:280:VAL:N	2.09	0.85
1:E:401:ALA:O	1:E:404:ALA:N	2.10	0.85
1:E:812:ASP:O	1:E:816:LYS:N	2.09	0.85
1:C:782:LYS:O	1:C:811:LYS:NZ	2.09	0.85
1:E:270:LYS:NZ	1:E:274:GLU:HA	1.91	0.85
1:E:460:GLU:HA	1:E:463:ARG:HH12	1.41	0.85
1:E:673:ASN:O	1:E:676:GLN:NE2	2.09	0.85
1:F:613:LEU:HD13	1:F:770:VAL:H	1.40	0.85
1:A:174:MET:HG2	1:A:245:SER:HB2	1.58	0.85
1:C:620:LYS:NZ	1:C:621:THR:OG1	2.08	0.85
1:D:202:ARG:HH22	1:D:205:LYS:HB3	1.41	0.85
1:D:558:VAL:HA	1:D:561:LEU:HB2	1.59	0.85
1:E:301:LEU:O	1:E:305:LEU:N	2.07	0.85
1:E:460:GLU:OE1	1:E:463:ARG:NH1	2.07	0.85
1:E:709:THR:N	1:E:716:ILE:H	1.74	0.85
1:F:605:ARG:HG2	1:F:706:GLY:CA	2.06	0.85
1:A:285:GLU:HB3	1:A:288:MET:HG2	1.58	0.85
1:B:174:MET:HB3	1:B:243:LEU:HD12	1.59	0.85
1:B:589:ALA:O	1:B:593:ALA:N	2.09	0.85
1:B:786:ILE:O	1:B:789:LYS:NZ	2.08	0.85
1:C:355:LEU:O	1:C:359:TYR:N	2.09	0.85
1:D:828:LEU:O	1:D:832:ILE:N	2.09	0.85
1:E:205:LYS:NZ	1:E:333:ARG:O	2.09	0.85
1:E:754:VAL:O	1:E:757:HIS:N	2.07	0.85
1:F:213:GLU:OE1	1:F:387:ARG:NH2	2.09	0.85
1:F:640:ARG:HH11	1:F:686:ASP:CG	1.80	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:596:LEU:HD13	1:C:837:LEU:HB2	1.57	0.85
1:B:744:GLU:O	1:B:748:ASN:N	2.10	0.85
1:C:223:GLU:O	1:C:227:GLN:N	2.10	0.85
1:C:242:LYS:NZ	1:C:243:LEU:O	2.09	0.85
1:D:569:LEU:O	1:D:572:MET:N	2.09	0.85
1:E:482:LYS:HE2	1:E:486:LEU:HD11	1.59	0.85
1:A:781:HIS:CE1	1:A:782:LYS:HZ2	1.94	0.85
1:B:620:LYS:HG2	1:B:826:ARG:HH12	1.42	0.85
1:B:651:ALA:H	1:B:692:HIS:CE1	1.94	0.85
1:C:192:GLU:OE1	1:C:192:GLU:N	2.09	0.85
1:D:483:LEU:O	1:D:487:GLU:N	2.08	0.85
1:D:797:GLN:HE21	1:D:800:LYS:HZ1	1.24	0.85
1:F:702:MET:HB3	1:F:708:ILE:CG2	2.07	0.85
1:F:754:VAL:HA	1:F:757:HIS:HB2	1.55	0.85
1:A:673:ASN:O	1:A:677:TYR:N	2.10	0.85
1:A:780:ILE:HA	1:A:783:ILE:HB	1.59	0.85
1:C:170:TYR:CZ	1:C:249:ALA:CB	2.59	0.85
1:C:190:GLU:HG2	1:C:191:GLU:H	1.40	0.85
1:E:808:GLN:N	1:E:811:LYS:HZ3	1.75	0.85
1:C:190:GLU:N	1:C:190:GLU:OE1	2.10	0.85
1:C:678:LYS:HE2	1:C:681:SER:HB2	1.59	0.85
1:D:234:VAL:HG11	1:D:238:LEU:HB2	1.56	0.85
1:B:547:SER:O	1:B:551:ALA:N	2.10	0.85
1:C:738:GLN:NE2	1:C:746:THR:OG1	2.10	0.85
1:D:193:ILE:O	1:D:197:ILE:N	2.10	0.85
1:D:828:LEU:HD23	1:D:831:LEU:HD12	1.59	0.85
1:E:230:ILE:HG22	1:E:495:ARG:HH21	1.41	0.85
1:E:596:LEU:HD22	1:F:837:LEU:HG	1.59	0.85
1:E:620:LYS:N	2:E:1002:AGS:O1A	2.10	0.85
1:F:381:ARG:NH1	1:F:565:GLU:OE2	2.09	0.85
1:C:168:SER:N	1:C:264:ARG:HH21	1.73	0.84
1:C:269:LEU:O	1:C:273:GLU:N	2.10	0.84
1:E:612:PHE:HA	1:E:771:ILE:HA	1.59	0.84
1:F:202:ARG:NH1	1:F:208:PRO:HD3	1.92	0.84
1:F:353:ARG:O	1:F:357:PRO:HD2	1.77	0.84
1:F:356:GLN:HE21	1:F:367:ILE:CG2	1.90	0.84
1:C:112:ALA:O	1:C:116:ILE:N	2.08	0.84
1:E:486:LEU:O	1:E:490:ALA:N	2.10	0.84
1:F:391:SER:O	1:F:395:LEU:N	2.09	0.84
1:A:248:LEU:HD22	1:A:251:LEU:HB2	1.57	0.84
1:A:302:LYS:NZ	1:A:310:LEU:O	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:842:LEU:HD11	1:C:881:PRO:HB3	1.58	0.84
1:D:586:ALA:O	1:D:590:VAL:N	2.10	0.84
1:D:791:ILE:C	1:D:794:ARG:HH12	1.79	0.84
1:E:459:LEU:HA	1:E:462:LEU:HB3	1.59	0.84
1:F:216:ILE:HG12	1:F:218:LYS:HZ3	1.42	0.84
1:C:170:TYR:CE1	1:C:249:ALA:CB	2.60	0.84
1:C:349:VAL:O	1:C:353:ARG:N	2.11	0.84
1:C:785:ASP:OD1	1:C:786:ILE:HD12	1.77	0.84
1:F:193:ILE:O	1:F:197:ILE:N	2.10	0.84
1:A:395:LEU:HD11	1:A:549:THR:HG22	1.59	0.84
1:B:242:LYS:HZ3	1:B:277:THR:HG21	1.43	0.84
1:D:766:ILE:O	1:E:830:ARG:NH2	2.10	0.84
1:D:767:SER:HA	1:E:830:ARG:NH1	1.93	0.84
1:A:248:LEU:HD13	1:A:251:LEU:N	1.93	0.84
1:B:194:ARG:HA	1:B:197:ILE:HD12	1.59	0.84
1:B:372:LEU:HA	1:B:375:ALA:HB3	1.59	0.84
1:B:539:ASN:OD1	1:B:540:VAL:N	2.10	0.84
1:B:585:ASP:HA	1:B:588:LYS:HD3	1.59	0.84
1:D:173:ASP:OD2	1:D:175:THR:HB	1.78	0.84
1:D:333:ARG:NH1	2:E:1001:AGS:O3G	2.09	0.84
1:D:349:VAL:O	1:D:353:ARG:N	2.10	0.84
1:D:788:LEU:HA	1:D:791:ILE:HG12	1.56	0.84
1:F:202:ARG:HH12	1:F:208:PRO:CD	1.91	0.84
1:F:700:LEU:HD23	1:F:703:LEU:HD23	1.54	0.84
1:A:856:ASN:O	1:A:879:VAL:N	2.08	0.84
1:C:189:ARG:NH1	1:C:341:ALA:H	1.74	0.84
1:D:213:GLU:HG2	1:D:387:ARG:NH1	1.92	0.84
1:D:810:ALA:O	1:D:814:LEU:N	2.10	0.84
1:F:638:MET:H	1:F:682:VAL:HG12	1.42	0.84
1:D:695:VAL:O	1:D:699:MET:N	2.10	0.84
1:D:834:ASN:OD1	1:D:835:GLU:N	2.10	0.84
1:E:218:LYS:NZ	1:E:387:ARG:HH12	1.75	0.84
1:F:704:ASP:CG	1:F:765:ARG:CZ	2.40	0.84
1:F:839:LYS:HA	1:F:842:LEU:HB3	1.57	0.84
1:B:298:ALA:HA	1:B:301:LEU:HD11	1.60	0.84
1:C:718:CYS:SG	1:C:720:ASN:ND2	2.50	0.84
1:E:747:LYS:H	1:E:747:LYS:HZ3	1.25	0.84
1:F:832:ILE:HA	1:F:835:GLU:OE2	1.78	0.84
1:B:176:GLU:OE2	1:B:180:GLN:N	2.10	0.84
1:B:228:ARG:HD2	1:B:231:ASP:OD2	1.78	0.84
1:B:285:GLU:O	1:B:289:LEU:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:169:LYS:HD2	1:C:264:ARG:HH11	1.39	0.84
1:F:176:GLU:O	1:F:180:GLN:N	2.11	0.84
1:B:646:LEU:HD11	1:B:690:LYS:NZ	1.93	0.83
1:B:686:ASP:OD1	1:B:687:GLU:N	2.10	0.83
1:C:842:LEU:O	1:C:846:LYS:N	2.09	0.83
1:D:218:LYS:O	1:D:222:ILE:N	2.11	0.83
1:E:349:VAL:HG11	1:E:373:VAL:HG22	1.60	0.83
1:F:205:LYS:NZ	1:F:334:ARG:O	2.10	0.83
1:A:777:ARG:NH2	1:A:812:ASP:OD1	2.11	0.83
1:B:191:GLU:HA	1:B:194:ARG:HB2	1.60	0.83
1:C:191:GLU:O	1:C:195:SER:N	2.11	0.83
1:D:417:LYS:NZ	1:D:420:GLN:OE1	2.10	0.83
1:D:543:SER:O	1:D:547:SER:N	2.10	0.83
1:E:270:LYS:HG3	1:E:274:GLU:HB3	1.60	0.83
1:F:285:GLU:HB2	1:F:288:MET:N	1.94	0.83
1:C:476:LEU:HA	1:C:520:LEU:HB3	1.58	0.83
1:D:684:LEU:HG	1:D:725:MET:HA	1.58	0.83
2:D:1001:AGS:O1B	2:D:1001:AGS:O3G	1.86	0.83
1:E:216:ILE:HG22	1:E:218:LYS:NZ	1.92	0.83
1:E:319:ASN:HA	1:E:322:ARG:HH12	1.41	0.83
1:F:848:GLU:OE1	1:F:882:ASN:ND2	2.11	0.83
1:A:254:GLY:O	1:A:264:ARG:NH1	2.11	0.83
1:A:777:ARG:CZ	1:A:816:LYS:HG3	2.08	0.83
1:C:218:LYS:NZ	2:C:1001:AGS:S1G	2.50	0.83
1:C:548:GLU:N	1:C:548:GLU:OE1	2.10	0.83
1:C:587:ILE:O	1:C:591:SER:N	2.11	0.83
1:D:196:THR:O	1:D:200:LEU:N	2.11	0.83
1:D:317:THR:N	1:D:321:TYR:CG	2.46	0.83
1:D:650:TYR:CD2	1:D:654:LYS:HB3	2.13	0.83
1:E:198:ARG:HD3	1:F:401:ALA:HB1	1.57	0.83
1:E:544:ASP:O	1:E:548:GLU:N	2.12	0.83
1:C:227:GLN:O	1:C:231:ASP:N	2.10	0.83
1:D:593:ALA:O	1:D:597:SER:N	2.10	0.83
1:D:696:LEU:HB3	1:D:699:MET:HE1	1.58	0.83
1:E:746:THR:N	1:E:747:LYS:HZ1	1.77	0.83
1:F:557:PRO:O	1:F:561:LEU:N	2.11	0.83
1:A:272:ILE:O	1:A:276:LYS:NZ	2.09	0.83
1:B:658:THR:HG21	1:B:711:GLY:HA3	1.59	0.83
1:B:751:MET:HB3	1:B:755:ARG:HH12	1.44	0.83
1:C:356:GLN:HG3	1:C:367:ILE:HD13	1.60	0.83
1:E:654:LYS:NZ	1:E:694:ASP:OD2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:GLN:NE2	1:F:348:THR:OG1	2.10	0.83
1:A:699:MET:O	1:A:703:LEU:N	2.12	0.83
1:C:203:ARG:HH12	1:D:359:TYR:CB	1.92	0.83
1:E:640:ARG:HA	1:E:684:LEU:HD13	1.61	0.83
1:A:826:ARG:NH2	1:F:304:ALA:O	2.12	0.83
1:B:404:ALA:O	1:B:408:ASP:N	2.11	0.83
1:B:674:GLN:O	1:B:678:LYS:N	2.11	0.83
1:B:793:GLU:OE2	1:B:802:TYR:OH	1.97	0.83
1:D:639:ILE:HG22	1:D:674:GLN:HE21	1.44	0.83
1:E:343:PRO:HG2	1:E:388:LEU:HD23	1.59	0.83
1:E:627:VAL:O	1:E:631:LEU:HG	1.78	0.83
1:E:687:GLU:O	1:E:728:ALA:N	2.12	0.83
1:F:175:THR:O	1:F:179:ARG:N	2.12	0.83
1:F:656:LEU:CD1	1:F:711:GLY:HA3	2.09	0.83
1:A:777:ARG:O	1:A:781:HIS:ND1	2.12	0.83
1:B:330:ALA:O	1:B:333:ARG:NE	2.12	0.83
1:C:621:THR:HB	1:C:826:ARG:NH1	1.93	0.83
1:F:263:GLU:O	1:F:267:GLY:N	2.11	0.83
1:E:330:ALA:O	1:E:334:ARG:N	2.12	0.83
1:A:617:GLY:HA2	1:A:620:LYS:HD3	1.60	0.82
1:A:830:ARG:HH12	1:F:309:GLN:HG2	1.43	0.82
1:D:722:ILE:HG22	1:D:723:VAL:H	1.41	0.82
1:F:651:ALA:H	1:F:654:LYS:NZ	1.76	0.82
1:A:685:PHE:HB2	1:A:725:MET:HG2	1.61	0.82
1:B:211:ILE:HD11	1:B:320:GLU:OE2	1.78	0.82
1:D:613:LEU:O	1:D:772:PHE:N	2.12	0.82
1:E:658:THR:N	1:E:666:ASP:O	2.10	0.82
1:C:218:LYS:HA	1:C:221:ILE:HD12	1.60	0.82
1:C:317:THR:O	1:C:321:TYR:N	2.11	0.82
1:C:694:ASP:O	1:C:697:THR:OG1	1.96	0.82
1:D:620:LYS:HG3	1:D:621:THR:H	1.42	0.82
1:D:731:ALA:O	1:D:735:ASN:N	2.08	0.82
1:D:843:ARG:O	1:D:847:ASN:N	2.12	0.82
1:C:245:SER:OG	1:C:283:ILE:O	1.96	0.82
1:C:577:SER:O	1:C:580:VAL:N	2.13	0.82
1:D:174:MET:O	1:D:178:ALA:N	2.11	0.82
1:D:369:ASP:HA	1:D:372:LEU:HD13	1.60	0.82
1:E:594:VAL:O	1:E:597:SER:OG	1.97	0.82
1:E:625:LYS:HB3	1:E:635:GLU:OE1	1.77	0.82
1:F:858:VAL:HA	1:F:878:GLU:HA	1.59	0.82
1:B:834:ASN:O	1:B:838:ASN:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:473:HIS:NE2	1:C:538:GLN:O	2.12	0.82
1:D:792:GLU:HA	1:D:795:PHE:CE2	2.13	0.82
1:D:802:TYR:HE2	1:D:804:LEU:HB2	1.44	0.82
1:E:174:MET:O	1:E:178:ALA:N	2.11	0.82
1:C:210:LEU:HB3	1:C:338:ILE:O	1.78	0.82
1:C:285:GLU:HA	1:C:287:HIS:NE2	1.94	0.82
1:C:366:ARG:HH12	1:C:538:GLN:HB2	1.43	0.82
1:E:477:THR:HA	1:E:480:LYS:HD2	1.59	0.82
1:A:283:ILE:H	1:A:312:VAL:HG23	1.43	0.82
1:B:592:ASN:O	1:B:596:LEU:N	2.12	0.82
2:C:1001:AGS:O2A	2:C:1001:AGS:O3G	1.96	0.82
1:E:786:ILE:O	1:E:790:GLU:N	2.11	0.82
1:A:777:ARG:HH12	1:A:816:LYS:N	1.78	0.82
1:A:858:VAL:H	1:A:877:LEU:HB3	1.45	0.82
1:B:210:LEU:HG	1:B:338:ILE:O	1.79	0.82
1:C:407:ARG:NH1	1:C:539:ASN:O	2.12	0.82
1:C:785:ASP:OD2	1:C:811:LYS:NZ	2.12	0.82
1:D:609:SER:H	1:D:767:SER:HB3	1.45	0.82
1:E:194:ARG:HB3	1:E:198:ARG:HH12	1.42	0.82
1:E:787:ARG:NH1	1:E:829:ASN:HB3	1.95	0.82
1:D:262:GLU:OE1	1:D:262:GLU:N	2.12	0.82
1:D:344:SER:N	1:D:347:GLN:OE1	2.13	0.82
1:E:190:GLU:O	1:E:194:ARG:N	2.09	0.82
1:A:267:GLY:O	1:A:271:GLU:N	2.13	0.82
1:C:545:THR:O	1:C:549:THR:OG1	1.96	0.82
1:D:231:ASP:O	1:D:495:ARG:NE	2.12	0.82
1:D:299:ASN:O	1:D:303:PRO:HD2	1.78	0.82
1:D:809:GLU:OE2	1:D:811:LYS:NZ	2.13	0.82
1:E:858:VAL:H	1:E:878:GLU:H	1.28	0.82
1:F:331:PHE:CD1	1:F:334:ARG:HG3	2.14	0.82
1:B:191:GLU:OE1	1:B:191:GLU:N	2.12	0.81
1:C:697:THR:OG1	1:C:698:VAL:N	2.13	0.81
1:C:777:ARG:O	1:C:781:HIS:N	2.10	0.81
1:C:799:ASP:C	1:C:850:LYS:HZ1	1.83	0.81
1:D:470:LYS:HA	1:D:473:HIS:HB3	1.61	0.81
1:D:556:ILE:HG22	1:D:559:LYS:NZ	1.93	0.81
1:A:549:THR:HA	1:A:552:ARG:NH1	1.95	0.81
1:B:859:LEU:HD12	1:B:875:GLU:HG2	1.61	0.81
1:D:671:LEU:O	1:D:674:GLN:HB3	1.80	0.81
1:D:785:ASP:O	1:D:789:LYS:N	2.12	0.81
1:D:792:GLU:OE2	1:D:801:HIS:ND1	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:809:GLU:OE1	1:D:809:GLU:N	2.12	0.81
1:E:227:GLN:HG3	1:E:231:ASP:OD2	1.80	0.81
1:E:228:ARG:NH2	1:E:233:ASP:O	2.13	0.81
1:E:271:GLU:HA	1:E:274:GLU:OE2	1.79	0.81
1:A:378:LEU:O	1:A:381:ARG:N	2.12	0.81
1:C:174:MET:N	1:C:242:LYS:HZ3	1.78	0.81
1:C:191:GLU:HA	1:C:194:ARG:HB2	1.60	0.81
1:C:650:TYR:OH	1:C:655:LEU:O	1.96	0.81
1:C:672:THR:OG1	1:C:673:ASN:N	2.11	0.81
1:C:699:MET:O	1:C:703:LEU:N	2.11	0.81
1:D:190:GLU:OE1	1:D:190:GLU:N	2.12	0.81
1:D:240:GLY:O	1:D:277:THR:OG1	1.97	0.81
1:D:461:PRO:O	1:D:465:ARG:N	2.13	0.81
1:D:545:THR:O	1:D:549:THR:N	2.13	0.81
1:D:590:VAL:HG12	1:D:594:VAL:HG23	1.61	0.81
1:D:843:ARG:HA	1:D:846:LYS:HZ3	1.45	0.81
1:E:385:TYR:HD1	1:E:386:ARG:NH1	1.77	0.81
1:E:548:GLU:CB	1:E:552:ARG:HH12	1.89	0.81
1:E:803:LYS:H	1:E:852:LYS:HB3	1.45	0.81
1:F:751:MET:O	1:F:755:ARG:N	2.13	0.81
1:A:682:VAL:HG22	1:A:721:CYS:HA	1.60	0.81
1:A:842:LEU:HB3	1:A:846:LYS:NZ	1.95	0.81
1:B:700:LEU:HD12	1:B:703:LEU:HB2	1.61	0.81
1:C:168:SER:CA	1:C:264:ARG:NH2	2.00	0.81
1:C:374:THR:O	1:C:377:GLN:HG2	1.79	0.81
1:C:720:ASN:OD1	1:C:721:CYS:N	2.13	0.81
1:D:839:LYS:HZ3	1:D:879:VAL:N	1.78	0.81
1:A:348:THR:HG23	1:A:351:ILE:HD12	1.62	0.81
1:B:223:GLU:OE1	1:B:223:GLU:N	2.12	0.81
1:B:744:GLU:HA	1:B:747:LYS:HB2	1.61	0.81
1:D:486:LEU:O	1:D:490:ALA:N	2.13	0.81
1:D:605:ARG:NH1	1:D:707:ARG:HE	1.79	0.81
1:E:534:ASN:HD21	1:E:538:GLN:H	1.25	0.81
1:F:217:GLY:HA3	2:F:1001:AGS:H1'	1.62	0.81
1:B:593:ALA:O	1:B:597:SER:N	2.11	0.81
1:C:641:VAL:HG23	1:C:683:LEU:HD11	1.63	0.81
1:D:807:THR:OG1	1:D:809:GLU:OE1	1.98	0.81
1:E:839:LYS:HZ2	1:E:879:VAL:HA	1.45	0.81
1:F:640:ARG:HD2	1:F:684:LEU:HB2	1.61	0.81
1:B:545:THR:O	1:B:549:THR:N	2.13	0.81
1:B:820:SER:H	1:B:824:GLY:HA2	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:ILE:O	1:C:225:VAL:N	2.12	0.81
1:C:281:LEU:HD12	1:C:312:VAL:HB	1.61	0.81
1:C:377:GLN:O	1:C:380:LYS:HG2	1.80	0.81
1:C:612:PHE:HA	1:C:726:THR:HA	1.62	0.81
1:D:236:THR:O	1:D:240:GLY:N	2.14	0.81
1:D:316:THR:O	1:D:321:TYR:CD2	2.33	0.81
1:D:329:GLY:O	1:D:333:ARG:N	2.14	0.81
1:D:530:ARG:HH22	1:D:538:GLN:H	1.28	0.81
1:D:672:THR:O	1:D:676:GLN:N	2.14	0.81
1:E:699:MET:HA	1:E:702:MET:HB2	1.63	0.81
1:C:349:VAL:HG22	1:C:373:VAL:HG11	1.63	0.81
1:C:695:VAL:O	1:C:699:MET:N	2.11	0.81
1:C:700:LEU:O	1:C:704:ASP:N	2.13	0.81
1:C:764:ASN:O	1:D:830:ARG:NH2	2.14	0.81
1:D:744:GLU:C	1:D:747:LYS:HZ3	1.84	0.81
1:D:746:THR:O	1:D:749:LEU:N	2.13	0.81
1:E:671:LEU:HG	1:E:675:LEU:HD13	1.63	0.81
1:F:211:ILE:HG23	1:F:317:THR:HA	1.63	0.81
1:F:286:ILE:HD12	1:F:322:ARG:HE	1.39	0.81
1:B:677:TYR:HB2	1:B:678:LYS:HZ3	1.46	0.81
1:C:169:LYS:CD	1:C:264:ARG:CD	0.89	0.81
1:C:173:ASP:OD2	1:C:177:GLN:N	2.14	0.81
1:D:643:CYS:HB3	1:D:646:LEU:HD23	1.63	0.81
1:E:302:LYS:HE3	1:E:331:PHE:HA	1.63	0.81
1:E:545:THR:O	1:E:549:THR:N	2.14	0.81
1:F:785:ASP:HB3	1:F:789:LYS:NZ	1.95	0.81
1:B:639:ILE:N	1:B:682:VAL:O	2.14	0.81
1:C:175:THR:HG23	1:C:242:LYS:HD3	1.62	0.81
1:C:407:ARG:NH2	1:C:538:GLN:H	1.78	0.81
1:C:566:ASN:O	1:C:569:LEU:HB3	1.81	0.81
1:E:189:ARG:HH22	1:E:341:ALA:H	1.25	0.81
1:F:556:ILE:HD12	1:F:558:VAL:HB	1.63	0.81
1:A:226:ALA:O	1:A:230:ILE:N	2.14	0.80
1:C:576:LEU:O	1:C:580:VAL:N	2.14	0.80
1:C:731:ALA:O	1:C:735:ASN:N	2.13	0.80
1:D:202:ARG:HH12	1:D:205:LYS:CG	1.94	0.80
1:E:791:ILE:O	1:E:795:PHE:N	2.14	0.80
1:F:211:ILE:H	1:F:339:GLU:HG2	1.45	0.80
1:F:666:ASP:OD2	1:F:672:THR:OG1	1.99	0.80
1:B:564:SER:C	1:B:568:LYS:HZ1	1.84	0.80
1:C:565:GLU:HA	1:C:568:LYS:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:THR:O	1:D:179:ARG:N	2.13	0.80
1:D:650:TYR:HA	1:D:653:SER:OG	1.81	0.80
1:E:607:PRO:HD3	1:E:707:ARG:HH12	1.43	0.80
1:E:747:LYS:NZ	1:E:747:LYS:H	1.79	0.80
1:F:563:GLU:HB3	1:F:568:LYS:HB3	1.64	0.80
1:F:581:VAL:HG12	1:F:582:GLY:H	1.47	0.80
1:B:191:GLU:O	1:B:195:SER:N	2.12	0.80
1:B:202:ARG:HD3	1:B:206:SER:HA	1.61	0.80
1:C:284:ASP:HB3	1:C:285:GLU:OE2	1.82	0.80
1:C:639:ILE:HG13	1:C:678:LYS:NZ	1.95	0.80
1:D:839:LYS:HZ3	1:D:878:GLU:HB3	1.44	0.80
1:D:839:LYS:NZ	1:D:879:VAL:O	2.10	0.80
1:E:351:ILE:O	1:E:355:LEU:N	2.13	0.80
1:F:287:HIS:NE2	1:F:322:ARG:CD	2.44	0.80
1:F:802:TYR:O	1:F:853:GLU:N	2.14	0.80
1:B:285:GLU:OE1	1:B:288:MET:N	2.14	0.80
1:B:761:GLU:OE1	1:B:761:GLU:N	2.14	0.80
1:C:195:SER:HA	1:C:198:ARG:NE	1.94	0.80
1:C:710:SER:N	1:C:714:LYS:O	2.13	0.80
1:D:512:ASP:OD1	1:D:513:ILE:N	2.14	0.80
1:F:283:ILE:HG12	1:F:312:VAL:HG21	1.62	0.80
1:F:749:LEU:O	1:F:753:ALA:N	2.13	0.80
1:A:625:LYS:HE3	1:A:635:GLU:HB3	1.63	0.80
1:E:543:SER:O	1:E:546:ILE:N	2.13	0.80
1:F:592:ASN:O	1:F:595:ARG:NH1	2.15	0.80
1:B:677:TYR:HB2	1:B:678:LYS:NZ	1.96	0.80
1:C:144:ALA:O	1:C:148:ARG:N	2.15	0.80
1:C:465:ARG:HH12	1:C:529:ARG:NH1	1.79	0.80
1:D:466:TYR:HE1	1:D:538:GLN:HE21	1.26	0.80
1:D:547:SER:O	1:D:551:ALA:N	2.14	0.80
1:E:319:ASN:CA	1:E:322:ARG:HH12	1.93	0.80
1:F:199:VAL:O	1:F:202:ARG:N	2.14	0.80
1:F:285:GLU:HA	1:F:315:ALA:O	1.82	0.80
1:F:792:GLU:N	1:F:792:GLU:OE1	2.14	0.80
1:C:349:VAL:HA	1:C:352:LEU:HD12	1.64	0.80
1:C:843:ARG:NH2	1:C:882:ASN:OD1	2.15	0.80
1:D:229:ILE:HA	1:D:233:ASP:H	1.47	0.80
1:D:843:ARG:NH2	1:D:880:LEU:O	2.14	0.80
1:E:169:LYS:HZ1	1:E:267:GLY:HA3	1.46	0.80
1:E:695:VAL:O	1:E:699:MET:N	2.15	0.80
1:A:839:LYS:NZ	1:A:879:VAL:HA	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:812:ASP:O	1:B:816:LYS:N	2.13	0.80
1:C:191:GLU:OE1	1:C:194:ARG:NE	2.13	0.80
1:D:284:ASP:OD1	1:D:285:GLU:HG2	1.82	0.80
1:D:358:LYS:HA	1:D:361:ILE:HD12	1.64	0.80
1:D:485:GLU:O	1:D:489:LYS:N	2.13	0.80
1:D:644:SER:OG	1:D:687:GLU:OE1	2.00	0.80
1:D:708:ILE:N	1:D:716:ILE:H	1.80	0.80
1:E:408:ASP:HB3	1:E:411:PRO:HG3	1.63	0.80
1:E:840:LEU:O	1:E:844:ILE:N	2.15	0.80
1:B:620:LYS:HG3	1:B:621:THR:N	1.94	0.80
1:C:613:LEU:H	1:C:726:THR:HB	1.46	0.80
1:D:486:LEU:HD23	1:D:489:LYS:HD2	1.64	0.80
1:D:668:GLY:O	1:D:672:THR:N	2.13	0.80
1:D:797:GLN:NE2	1:D:800:LYS:HZ1	1.78	0.80
1:E:168:SER:OG	1:E:264:ARG:NH2	2.14	0.80
1:E:203:ARG:HB3	1:E:203:ARG:CZ	2.11	0.80
1:A:595:ARG:HH11	1:B:841:ALA:HB3	1.47	0.80
1:A:739:GLY:HA3	1:A:742:ILE:HD13	1.63	0.80
1:C:617:GLY:N	1:C:620:LYS:HE3	1.96	0.80
1:A:319:ASN:ND2	1:A:712:GLN:OE1	2.14	0.79
1:C:416:SER:O	1:C:420:GLN:N	2.11	0.79
1:C:557:PRO:HA	1:C:560:LYS:NZ	1.97	0.79
1:C:630:PHE:HB3	1:C:631:LEU:HD12	1.63	0.79
1:D:319:ASN:HB3	1:D:712:GLN:HG2	1.64	0.79
1:D:488:ASN:O	1:D:492:ASP:N	2.15	0.79
1:E:828:LEU:HA	1:E:831:LEU:HB2	1.63	0.79
1:F:568:LYS:O	1:F:572:MET:N	2.11	0.79
1:F:702:MET:SD	1:F:708:ILE:HG23	2.22	0.79
1:B:250:ALA:H	1:B:264:ARG:HH12	1.26	0.79
1:B:812:ASP:HA	1:B:815:ALA:HB3	1.64	0.79
1:C:465:ARG:HH12	1:C:529:ARG:HH11	1.30	0.79
1:C:549:THR:O	1:C:553:LEU:N	2.14	0.79
1:C:636:ASP:OD1	1:C:637:MET:N	2.15	0.79
1:D:216:ILE:N	2:D:1001:AGS:O3G	2.11	0.79
1:D:452:GLU:O	1:D:456:GLN:N	2.13	0.79
1:D:686:ASP:HA	1:D:688:VAL:HG12	1.64	0.79
1:F:804:LEU:C	1:F:854:THR:HA	2.02	0.79
1:A:169:LYS:NZ	1:A:264:ARG:CZ	2.45	0.79
1:A:569:LEU:O	1:A:572:MET:N	2.15	0.79
1:B:393:LEU:HA	1:B:396:VAL:HB	1.64	0.79
1:B:697:THR:O	1:B:701:GLN:N	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:571:HIS:HA	1:C:574:ARG:HG2	1.64	0.79
1:C:850:LYS:NZ	1:C:851:ASP:OD1	2.14	0.79
1:D:570:ILE:O	1:D:595:ARG:NH2	2.13	0.79
1:D:696:LEU:HA	1:D:699:MET:HB3	1.62	0.79
1:D:785:ASP:O	1:D:788:LEU:N	2.15	0.79
1:E:476:LEU:HD22	1:E:520:LEU:HB2	1.62	0.79
1:E:834:ASN:N	1:E:834:ASN:OD1	2.12	0.79
1:F:216:ILE:HG12	1:F:218:LYS:NZ	1.97	0.79
1:B:214:PRO:HD2	1:B:387:ARG:NE	1.97	0.79
1:B:242:LYS:N	1:B:278:LEU:O	2.11	0.79
1:C:203:ARG:HH12	1:D:359:TYR:HB3	1.47	0.79
1:C:262:GLU:HA	1:C:265:PHE:HD2	1.48	0.79
1:F:307:ARG:NH1	1:F:333:ARG:NH1	2.30	0.79
1:C:286:ILE:HG12	1:C:290:MET:HG3	1.65	0.79
1:C:568:LYS:HZ1	1:C:630:PHE:C	1.85	0.79
1:E:543:SER:OG	1:E:544:ASP:N	2.14	0.79
1:E:802:TYR:HA	1:E:852:LYS:HG2	1.63	0.79
1:F:620:LYS:NZ	2:F:1002:AGS:O3G	2.15	0.79
1:B:170:TYR:HD1	1:B:250:ALA:HB1	1.48	0.79
1:B:351:ILE:O	1:B:355:LEU:N	2.15	0.79
1:D:210:LEU:HG	1:D:338:ILE:C	2.03	0.79
1:D:265:PHE:CE2	1:D:298:ALA:HB1	2.18	0.79
1:D:754:VAL:O	1:D:758:PHE:N	2.13	0.79
1:E:825:ALA:HB1	1:E:828:LEU:HB3	1.63	0.79
1:F:683:LEU:HD23	1:F:684:LEU:H	1.46	0.79
1:F:844:ILE:O	1:F:847:ASN:ND2	2.14	0.79
1:A:206:SER:O	1:A:207:ASN:ND2	2.16	0.79
1:A:223:GLU:O	1:A:226:ALA:N	2.15	0.79
1:B:353:ARG:NH1	1:B:372:LEU:HB2	1.97	0.79
1:B:646:LEU:HD12	1:B:690:LYS:H	1.48	0.79
1:C:743:GLN:HB2	1:C:746:THR:H	1.48	0.79
1:D:316:THR:C	1:D:321:TYR:CG	2.55	0.79
1:D:644:SER:HB2	1:D:691:ALA:HA	1.63	0.79
1:E:365:VAL:HG12	1:E:407:ARG:HH11	1.47	0.79
1:F:731:ALA:HA	1:F:734:ILE:HB	1.65	0.79
1:A:322:ARG:HH22	1:A:337:LYS:HD3	1.47	0.79
1:B:625:LYS:O	1:B:628:ALA:N	2.11	0.79
1:D:387:ARG:O	1:D:391:SER:N	2.14	0.79
1:F:363:HIS:NE2	1:F:400:CYS:SG	2.56	0.79
1:B:263:GLU:HA	1:B:266:LYS:HZ1	1.48	0.79
1:B:379:ALA:O	1:B:383:LEU:N	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:173:ASP:OD1	1:C:174:MET:N	2.16	0.79
1:C:319:ASN:O	1:C:323:SER:N	2.16	0.79
1:D:216:ILE:HD13	1:D:390:ASP:OD2	1.82	0.79
1:D:820:SER:N	1:D:823:MET:O	2.16	0.79
1:E:593:ALA:O	1:E:597:SER:N	2.16	0.79
1:F:348:THR:HA	1:F:351:ILE:HD12	1.65	0.79
1:A:167:LEU:O	1:A:171:ALA:N	2.15	0.79
1:A:213:GLU:HB2	1:A:218:LYS:NZ	1.97	0.79
1:B:342:GLU:OE2	1:B:388:LEU:HB2	1.83	0.79
1:B:646:LEU:HB2	1:B:690:LYS:N	1.97	0.79
1:B:699:MET:O	1:B:703:LEU:N	2.16	0.79
1:D:369:ASP:OD1	1:D:372:LEU:HD22	1.83	0.79
1:D:596:LEU:O	1:D:599:SER:OG	2.01	0.79
1:F:565:GLU:O	1:F:569:LEU:N	2.13	0.79
1:F:710:SER:OG	1:F:713:GLY:HA2	1.83	0.79
1:C:189:ARG:HB3	1:C:192:GLU:HB2	1.63	0.78
1:D:363:HIS:HB3	1:D:407:ARG:HH22	1.48	0.78
1:D:558:VAL:O	1:D:562:SER:OG	2.01	0.78
1:E:512:ASP:HA	1:E:515:LYS:HB2	1.62	0.78
1:E:620:LYS:NZ	2:E:1002:AGS:O2B	2.15	0.78
1:F:207:ASN:HD21	1:F:311:LYS:HE3	1.47	0.78
1:F:395:LEU:HD13	1:F:546:ILE:HG12	1.66	0.78
1:C:843:ARG:HG2	1:C:846:LYS:HB2	1.64	0.78
1:C:843:ARG:HH11	1:C:848:GLU:HB2	1.47	0.78
1:D:258:LYS:HZ2	1:D:262:GLU:HB3	1.47	0.78
1:E:221:ILE:O	1:E:225:VAL:N	2.15	0.78
1:E:762:PHE:HA	1:E:765:ARG:HB3	1.63	0.78
1:F:552:ARG:HB2	1:F:552:ARG:NH1	1.98	0.78
1:D:191:GLU:O	1:D:195:SER:N	2.16	0.78
1:D:271:GLU:HG2	1:D:276:LYS:HZ2	1.45	0.78
1:D:548:GLU:O	1:D:552:ARG:N	2.16	0.78
1:D:585:ASP:O	1:D:589:ALA:N	2.12	0.78
1:E:465:ARG:HA	1:E:468:GLU:HB3	1.63	0.78
1:E:571:HIS:O	1:E:574:ARG:HG2	1.84	0.78
1:B:234:VAL:HG22	1:B:236:THR:H	1.48	0.78
1:C:143:GLN:O	1:C:147:LEU:N	2.17	0.78
1:C:622:GLU:O	1:C:626:LYS:N	2.15	0.78
1:D:467:ASN:O	1:D:471:HIS:N	2.14	0.78
1:D:673:ASN:OD1	1:D:674:GLN:N	2.15	0.78
1:D:779:ALA:C	1:D:782:LYS:HZ1	1.87	0.78
1:D:791:ILE:HG22	1:D:795:PHE:HZ	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:676:GLN:OE1	1:E:676:GLN:N	2.16	0.78
1:F:680:TYR:HB3	1:F:720:ASN:HB2	1.64	0.78
1:F:806:LEU:HB2	1:F:811:LYS:HZ2	1.47	0.78
1:A:210:LEU:HD23	1:A:211:ILE:HB	1.66	0.78
1:A:218:LYS:HZ1	1:A:387:ARG:HE	1.31	0.78
1:A:610:PHE:N	1:A:724:ILE:HG12	1.97	0.78
1:B:761:GLU:HA	1:B:764:ASN:HB3	1.64	0.78
1:C:643:CYS:HA	1:C:646:LEU:HD12	1.64	0.78
1:C:672:THR:O	1:C:676:GLN:N	2.12	0.78
1:D:537:ILE:O	1:D:540:VAL:N	2.15	0.78
1:D:755:ARG:O	1:D:759:ARG:N	2.15	0.78
1:E:218:LYS:NZ	1:E:387:ARG:NH1	2.31	0.78
1:F:640:ARG:HA	1:F:684:LEU:HB3	1.65	0.78
1:F:833:GLN:HE21	1:F:834:ASN:HD21	1.28	0.78
1:A:810:ALA:HA	1:A:813:PHE:CD1	2.19	0.78
1:A:872:GLU:HB3	1:F:201:ALA:HB3	1.64	0.78
1:B:776:SER:OG	1:B:777:ARG:N	2.14	0.78
1:C:259:GLY:O	1:C:262:GLU:N	2.16	0.78
1:C:465:ARG:NH1	1:C:529:ARG:HH11	1.82	0.78
1:C:770:VAL:HG22	1:C:771:ILE:H	1.48	0.78
1:F:609:SER:HB3	1:F:722:ILE:HG22	1.64	0.78
1:B:637:MET:HG2	1:B:680:TYR:O	1.83	0.78
1:C:169:LYS:HD3	1:C:264:ARG:CD	0.46	0.78
1:C:550:ALA:O	1:C:554:THR:N	2.16	0.78
1:D:362:HIS:HD2	1:D:363:HIS:CG	2.02	0.78
1:D:556:ILE:HD13	1:D:633:ASN:HD21	1.47	0.78
1:D:794:ARG:HH11	1:D:795:PHE:HE1	1.32	0.78
1:E:215:GLY:C	1:E:218:LYS:HZ3	1.86	0.78
1:E:766:ILE:O	1:F:830:ARG:NH2	2.17	0.78
1:A:244:PHE:HB3	1:A:281:LEU:HD23	1.66	0.78
1:A:609:SER:HB3	1:A:724:ILE:HG13	1.64	0.78
1:C:302:LYS:HA	1:C:305:LEU:HB2	1.64	0.78
1:C:575:ASP:O	1:C:578:SER:N	2.16	0.78
1:D:210:LEU:O	1:D:316:THR:N	2.14	0.78
1:D:274:GLU:O	1:D:276:LYS:HG3	1.84	0.78
1:D:326:GLU:OE1	1:D:326:GLU:N	2.15	0.78
1:D:357:PRO:CG	1:D:358:LYS:HZ2	1.96	0.78
1:D:403:VAL:O	1:D:407:ARG:N	2.17	0.78
1:E:176:GLU:OE1	1:E:176:GLU:N	2.16	0.78
1:E:187:ILE:HD12	2:E:1001:AGS:HN62	1.49	0.78
1:E:478:GLN:O	1:E:482:LYS:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:637:MET:HE2	1:E:682:VAL:H	1.49	0.78
1:A:179:ARG:HD2	1:A:242:LYS:NZ	1.99	0.78
1:B:544:ASP:O	1:B:560:LYS:NZ	2.17	0.78
1:C:168:SER:CA	1:C:264:ARG:HE	1.97	0.78
1:D:357:PRO:HG2	1:D:358:LYS:HZ2	1.49	0.78
1:D:524:VAL:O	1:D:534:ASN:ND2	2.17	0.78
1:D:626:LYS:O	1:D:630:PHE:N	2.16	0.78
1:E:689:GLU:OE2	1:E:757:HIS:CD2	2.36	0.78
1:E:701:GLN:HG2	1:E:707:ARG:HB2	1.65	0.78
1:F:241:ALA:O	1:F:242:LYS:NZ	2.17	0.78
1:F:699:MET:SD	1:F:708:ILE:CG2	2.72	0.78
1:A:751:MET:SD	1:A:755:ARG:NH2	2.55	0.78
1:B:190:GLU:O	1:B:193:ILE:HG13	1.84	0.78
1:B:225:VAL:O	1:B:229:ILE:N	2.16	0.78
1:B:648:GLU:N	1:B:693:PRO:HD3	1.99	0.78
1:C:543:SER:OG	1:C:544:ASP:OD1	2.00	0.78
1:D:585:ASP:CG	1:D:588:LYS:HZ1	1.85	0.78
1:F:755:ARG:NH1	1:F:763:LEU:HB3	1.99	0.78
1:A:251:LEU:O	1:A:255:ALA:N	2.17	0.77
1:A:786:ILE:HA	1:A:789:LYS:NZ	1.99	0.77
1:C:245:SER:OG	1:C:284:ASP:OD1	2.02	0.77
1:D:281:LEU:HD12	1:D:312:VAL:HG12	1.66	0.77
1:D:784:VAL:HG13	1:D:785:ASP:H	1.49	0.77
1:E:358:LYS:NZ	1:E:362:HIS:CE1	2.52	0.77
1:E:390:ASP:HA	1:E:393:LEU:HD12	1.65	0.77
1:E:484:ASP:N	1:E:484:ASP:OD1	2.15	0.77
1:F:612:PHE:HB2	1:F:724:ILE:HG13	1.66	0.77
1:F:623:LEU:HD12	1:F:626:LYS:HB2	1.66	0.77
1:A:708:ILE:O	1:A:716:ILE:N	2.17	0.77
1:B:545:THR:HA	1:B:548:GLU:HB2	1.65	0.77
1:B:666:ASP:OD2	1:B:672:THR:OG1	2.01	0.77
1:B:857:VAL:HG12	1:B:878:GLU:H	1.47	0.77
1:C:710:SER:OG	1:C:714:LYS:N	2.17	0.77
1:E:469:GLU:O	1:E:473:HIS:ND1	2.17	0.77
1:E:703:LEU:HD13	1:E:765:ARG:HG3	1.66	0.77
1:F:174:MET:O	1:F:177:GLN:N	2.17	0.77
1:F:644:SER:HA	1:F:690:LYS:HD2	1.66	0.77
1:B:166:TYR:HA	1:B:169:LYS:HG2	1.65	0.77
1:B:238:LEU:HA	1:B:241:ALA:HB3	1.65	0.77
1:B:540:VAL:HG12	1:B:542:ASP:H	1.48	0.77
1:B:621:THR:H	1:B:826:ARG:HH22	1.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:400:CYS:O	1:C:404:ALA:N	2.12	0.77
1:C:825:ALA:O	1:C:829:ASN:N	2.17	0.77
1:D:172:ILE:H	1:D:245:SER:N	1.82	0.77
1:D:177:GLN:O	1:D:181:GLY:N	2.17	0.77
1:D:219:THR:O	1:D:223:GLU:N	2.16	0.77
1:E:177:GLN:O	1:E:181:GLY:N	2.17	0.77
1:E:246:LEU:HB3	1:E:283:ILE:HD11	1.65	0.77
1:E:371:ALA:O	1:E:375:ALA:N	2.10	0.77
1:E:820:SER:HB3	1:E:824:GLY:N	1.98	0.77
1:E:830:ARG:O	1:E:833:GLN:NE2	2.17	0.77
1:A:603:ASN:HB3	1:A:605:ARG:NE	1.99	0.77
1:B:764:ASN:HB3	1:B:765:ARG:HH12	1.47	0.77
1:C:818:GLY:HA3	1:C:828:LEU:HD21	1.64	0.77
1:D:646:LEU:HD22	1:D:649:LYS:HB3	1.66	0.77
1:E:814:LEU:O	1:E:818:GLY:N	2.17	0.77
1:F:701:GLN:OE1	1:F:709:THR:CB	2.31	0.77
1:A:396:VAL:HA	1:A:399:SER:HB2	1.64	0.77
1:A:794:ARG:O	1:A:797:GLN:NE2	2.17	0.77
1:B:878:GLU:CD	1:B:879:VAL:H	1.88	0.77
1:D:362:HIS:HD2	1:D:363:HIS:CD2	2.02	0.77
1:D:391:SER:HA	1:D:394:ASP:OD2	1.83	0.77
1:F:210:LEU:HD12	1:F:339:GLU:HA	1.65	0.77
1:F:290:MET:HG2	1:F:293:GLY:HA2	1.66	0.77
1:F:666:ASP:OD2	1:F:669:GLY:HA2	1.83	0.77
1:B:228:ARG:HH12	1:B:233:ASP:HB2	1.47	0.77
1:C:620:LYS:HG3	1:C:621:THR:N	1.99	0.77
1:D:358:LYS:HD2	1:D:358:LYS:N	1.99	0.77
1:D:560:LYS:HA	1:D:563:GLU:OE2	1.85	0.77
1:E:366:ARG:HH11	1:E:539:ASN:CG	1.87	0.77
1:A:176:GLU:O	1:A:180:GLN:N	2.11	0.77
1:A:643:CYS:H	1:A:686:ASP:H	1.30	0.77
1:B:304:ALA:O	1:B:308:GLY:N	2.18	0.77
1:C:647:SER:OG	1:C:649:LYS:O	2.02	0.77
1:D:180:GLN:HB3	1:D:182:LYS:HG3	1.64	0.77
1:D:759:ARG:HB3	1:D:763:LEU:HD11	1.66	0.77
1:E:303:PRO:HB2	1:E:307:ARG:NH1	1.98	0.77
1:E:304:ALA:N	1:E:307:ARG:NH1	2.33	0.77
1:F:217:GLY:N	2:F:1001:AGS:O2B	2.18	0.77
1:F:302:LYS:HD2	1:F:305:LEU:HD11	1.67	0.77
1:C:197:ILE:HA	1:C:200:LEU:HD12	1.67	0.77
1:C:215:GLY:N	2:C:1001:AGS:S1G	2.53	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:733:PHE:CZ	1:C:749:LEU:HB2	2.18	0.77
1:C:798:ASN:OD1	1:C:799:ASP:N	2.16	0.77
1:D:710:SER:OG	1:D:714:LYS:N	2.15	0.77
1:F:358:LYS:HG2	1:F:359:TYR:N	1.98	0.77
1:A:236:THR:O	1:A:239:GLN:N	2.16	0.77
1:B:286:ILE:HD13	1:B:289:LEU:HD12	1.65	0.77
1:B:617:GLY:HA2	1:B:620:LYS:NZ	2.00	0.77
1:B:787:ARG:HA	1:B:790:GLU:HB3	1.64	0.77
1:C:15:LEU:N	1:C:160:THR:H	1.83	0.77
1:D:696:LEU:O	1:D:700:LEU:N	2.18	0.77
1:E:223:GLU:O	1:E:227:GLN:N	2.18	0.77
1:F:704:ASP:OD1	1:F:765:ARG:CD	2.32	0.77
1:F:704:ASP:CA	1:F:765:ARG:NE	2.48	0.77
1:A:843:ARG:HD3	1:A:846:LYS:HD2	1.66	0.77
1:D:344:SER:H	1:D:347:GLN:HB2	1.50	0.77
1:D:408:ASP:OD1	1:D:409:SER:N	2.18	0.77
1:D:618:SER:C	1:D:826:ARG:HH11	1.87	0.77
1:D:839:LYS:NZ	1:D:878:GLU:HB3	1.99	0.77
1:E:349:VAL:HG12	1:E:353:ARG:HG3	1.67	0.77
1:E:621:THR:O	1:E:625:LYS:N	2.16	0.77
1:E:646:LEU:N	1:E:649:LYS:HD2	1.99	0.77
1:F:627:VAL:HA	1:F:630:PHE:HB3	1.66	0.77
1:A:837:LEU:O	1:A:841:ALA:N	2.16	0.76
1:B:219:THR:O	1:B:221:ILE:N	2.18	0.76
1:B:682:VAL:HA	1:B:723:VAL:HG21	1.67	0.76
1:D:345:VAL:O	1:D:349:VAL:N	2.16	0.76
1:D:701:GLN:OE1	1:D:701:GLN:N	2.17	0.76
1:E:242:LYS:H	1:E:279:ILE:HA	1.49	0.76
1:E:789:LYS:O	1:E:793:GLU:N	2.12	0.76
1:A:205:LYS:N	1:A:334:ARG:HD2	2.00	0.76
1:B:222:ILE:O	1:B:226:ALA:N	2.13	0.76
1:C:838:ASN:OD1	1:C:839:LYS:N	2.18	0.76
1:D:372:LEU:HD12	1:D:542:ASP:HB3	1.65	0.76
1:D:566:ASN:O	1:D:569:LEU:HG	1.85	0.76
1:F:197:ILE:CG1	1:F:228:ARG:HH11	1.99	0.76
1:F:363:HIS:HE1	1:F:397:ASP:OD1	1.64	0.76
1:F:593:ALA:O	1:F:597:SER:N	2.17	0.76
1:B:646:LEU:H	1:B:691:ALA:N	1.83	0.76
1:B:693:PRO:HD2	1:B:694:ASP:H	1.48	0.76
1:C:414:LEU:O	1:C:418:GLU:N	2.17	0.76
1:D:248:LEU:HA	1:D:251:LEU:HG	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:ILE:HA	1:D:303:PRO:HG2	1.68	0.76
1:D:761:GLU:OE1	1:D:764:ASN:ND2	2.17	0.76
1:E:786:ILE:HG22	1:E:790:GLU:HB2	1.68	0.76
1:F:804:LEU:HB3	1:F:855:VAL:HG23	1.66	0.76
1:F:818:GLY:HA3	1:F:828:LEU:HD21	1.68	0.76
1:A:191:GLU:O	1:A:195:SER:N	2.16	0.76
1:B:228:ARG:NH1	1:B:233:ASP:HB2	2.00	0.76
1:B:290:MET:O	1:B:299:ASN:ND2	2.17	0.76
1:B:848:GLU:HB2	1:B:882:ASN:ND2	2.00	0.76
1:C:205:LYS:HZ2	1:C:334:ARG:N	1.83	0.76
1:C:247:ASP:OD1	1:C:248:LEU:N	2.18	0.76
1:C:519:LYS:O	1:C:523:GLN:N	2.18	0.76
1:C:763:LEU:HA	1:C:766:ILE:HD12	1.66	0.76
1:D:576:LEU:HA	1:D:579:GLU:HG2	1.68	0.76
1:E:302:LYS:NZ	1:E:334:ARG:HB2	2.00	0.76
1:E:470:LYS:HG2	1:E:474:GLU:OE2	1.86	0.76
1:F:653:SER:HA	1:F:667:GLU:HG2	1.68	0.76
1:F:755:ARG:HA	1:F:763:LEU:HD13	1.68	0.76
1:B:344:SER:O	1:B:348:THR:OG1	2.00	0.76
1:B:620:LYS:HZ2	1:B:826:ARG:HH12	1.27	0.76
1:B:634:ASP:OD1	1:B:636:ASP:N	2.15	0.76
1:B:801:HIS:ND1	1:B:851:ASP:OD1	2.18	0.76
1:C:169:LYS:CD	1:C:264:ARG:NH1	2.42	0.76
1:C:356:GLN:O	1:C:360:GLU:N	2.19	0.76
1:C:597:SER:C	1:C:598:ARG:HH11	1.87	0.76
1:D:617:GLY:N	1:D:620:LYS:HE3	1.98	0.76
1:E:240:GLY:O	1:E:277:THR:OG1	2.02	0.76
1:E:246:LEU:O	1:E:283:ILE:HG12	1.86	0.76
1:F:218:LYS:HA	1:F:221:ILE:HD12	1.67	0.76
1:F:839:LYS:O	1:F:843:ARG:N	2.17	0.76
1:A:317:THR:OG1	1:A:322:ARG:N	2.16	0.76
1:B:695:VAL:O	1:B:699:MET:N	2.15	0.76
1:C:702:MET:SD	1:C:708:ILE:HG21	2.26	0.76
1:C:767:SER:HA	1:D:830:ARG:NH1	2.00	0.76
1:D:799:ASP:H	1:D:801:HIS:HD2	1.30	0.76
1:F:548:GLU:OE1	1:F:552:ARG:NH1	2.14	0.76
1:A:700:LEU:HD12	1:A:703:LEU:HB3	1.67	0.76
1:B:207:ASN:HB2	1:B:335:PHE:CE1	2.20	0.76
1:B:622:GLU:H	1:B:826:ARG:HH21	1.33	0.76
1:C:704:ASP:OD1	1:C:705:ASP:N	2.18	0.76
1:D:303:PRO:O	1:D:306:SER:OG	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:785:ASP:OD1	1:D:788:LEU:HB2	1.86	0.76
1:E:248:LEU:HA	1:E:251:LEU:HB2	1.65	0.76
1:E:256:LYS:HE2	1:E:260:ASP:OD2	1.85	0.76
1:E:833:GLN:O	1:E:836:ILE:N	2.18	0.76
1:F:176:GLU:OE2	1:F:177:GLN:HG3	1.84	0.76
1:F:655:LEU:HD21	1:F:671:LEU:HD12	1.67	0.76
1:F:708:ILE:HD12	1:F:708:ILE:N	2.01	0.76
1:A:286:ILE:HG21	1:A:316:THR:HA	1.67	0.76
1:A:786:ILE:HA	1:A:789:LYS:HZ3	1.50	0.76
1:B:348:THR:HG21	1:B:388:LEU:HG	1.66	0.76
1:C:169:LYS:HD2	1:C:264:ARG:CD	1.72	0.76
1:C:203:ARG:NH1	1:D:359:TYR:HB3	2.00	0.76
1:C:639:ILE:HG22	1:C:640:ARG:H	1.51	0.76
1:C:681:SER:N	1:C:721:CYS:SG	2.59	0.76
1:C:828:LEU:O	1:C:832:ILE:N	2.19	0.76
1:D:563:GLU:HG3	1:D:568:LYS:NZ	2.00	0.76
1:D:617:GLY:H	1:D:620:LYS:CE	1.96	0.76
1:E:203:ARG:HG3	1:F:363:HIS:ND1	2.00	0.76
1:E:285:GLU:HA	1:E:287:HIS:CE1	2.20	0.76
1:E:534:ASN:HB2	1:E:536:MET:HB3	1.68	0.76
1:A:218:LYS:HZ1	1:A:387:ARG:NE	1.84	0.76
1:B:215:GLY:O	1:B:219:THR:N	2.17	0.76
1:C:591:SER:HB2	1:C:595:ARG:HH12	1.51	0.76
1:D:390:ASP:HA	1:D:393:LEU:HB2	1.68	0.76
1:E:478:GLN:HA	1:E:481:LYS:HB3	1.66	0.76
1:E:808:GLN:N	1:E:811:LYS:NZ	2.34	0.76
1:F:836:ILE:HA	1:F:839:LYS:HZ3	1.51	0.76
1:B:857:VAL:HB	1:B:876:CYS:HB3	1.68	0.76
1:C:302:LYS:NZ	1:C:306:SER:HA	2.01	0.76
1:C:349:VAL:HB	1:C:353:ARG:HH12	1.51	0.76
1:D:694:ASP:O	1:D:698:VAL:N	2.18	0.76
1:E:175:THR:HA	1:E:178:ALA:HB3	1.67	0.76
1:E:747:LYS:O	1:E:751:MET:N	2.18	0.76
1:F:280:VAL:HG22	1:F:311:LYS:H	1.51	0.76
1:F:714:LYS:C	1:F:716:ILE:H	1.89	0.76
1:A:718:CYS:SG	1:A:720:ASN:ND2	2.59	0.75
1:A:820:SER:HB2	1:A:827:PRO:HG3	1.68	0.75
1:B:202:ARG:O	1:B:206:SER:OG	2.04	0.75
1:D:299:ASN:O	1:D:302:LYS:N	2.18	0.75
1:D:425:GLN:HB2	1:D:452:GLU:OE2	1.86	0.75
1:E:176:GLU:HG2	1:E:177:GLN:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:GLU:O	1:E:569:LEU:N	2.19	0.75
1:F:273:GLU:HG3	1:F:274:GLU:H	1.51	0.75
1:F:810:ALA:O	1:F:814:LEU:N	2.13	0.75
1:B:287:HIS:HA	1:B:290:MET:HB3	1.68	0.75
1:C:180:GLN:HB2	1:C:182:LYS:HG3	1.67	0.75
1:C:420:GLN:HA	1:C:423:LEU:HB2	1.68	0.75
1:C:465:ARG:NH1	1:C:529:ARG:HD2	2.02	0.75
1:D:186:VAL:HB	2:D:1001:AGS:C4	2.16	0.75
1:D:530:ARG:NH1	1:D:537:ILE:HG23	2.01	0.75
1:D:530:ARG:NH1	1:D:539:ASN:N	2.30	0.75
1:D:800:LYS:HZ3	1:D:801:HIS:CD2	2.04	0.75
1:E:654:LYS:HZ3	1:E:698:VAL:HG22	1.52	0.75
1:E:709:THR:O	1:E:716:ILE:N	2.20	0.75
1:A:298:ALA:O	1:A:301:LEU:N	2.20	0.75
1:A:346:ARG:O	1:A:350:ALA:N	2.19	0.75
1:B:209:CYS:HA	1:B:314:GLY:HA2	1.67	0.75
1:C:217:GLY:H	2:C:1001:AGS:PB	2.10	0.75
1:C:376:ALA:O	1:C:380:LYS:N	2.19	0.75
1:C:621:THR:HB	1:C:826:ARG:HH11	1.51	0.75
1:C:634:ASP:HB2	1:C:636:ASP:OD2	1.85	0.75
1:D:790:GLU:HA	1:D:793:GLU:CD	2.06	0.75
1:E:218:LYS:CE	1:E:387:ARG:HH12	1.98	0.75
1:E:536:MET:HG3	1:E:538:GLN:HB3	1.68	0.75
1:E:572:MET:O	1:E:576:LEU:HG	1.87	0.75
1:F:166:TYR:N	1:F:267:GLY:O	2.20	0.75
1:A:708:ILE:HB	1:A:716:ILE:HB	1.66	0.75
1:B:195:SER:HB2	1:B:198:ARG:HH12	1.51	0.75
1:B:770:VAL:HG12	1:B:771:ILE:H	1.51	0.75
1:C:565:GLU:O	1:C:569:LEU:N	2.19	0.75
1:D:688:VAL:HA	1:D:691:ALA:HB2	1.69	0.75
1:F:784:VAL:O	1:F:788:LEU:N	2.16	0.75
1:A:403:VAL:HA	1:A:406:ALA:HB3	1.68	0.75
1:C:189:ARG:HH22	1:C:342:GLU:CA	2.00	0.75
1:D:282:PHE:HD1	1:D:313:ILE:HD11	1.49	0.75
1:D:733:PHE:CZ	1:D:749:LEU:HB3	2.17	0.75
1:E:496:ARG:O	1:E:499:THR:OG1	2.04	0.75
1:E:807:THR:C	1:E:811:LYS:HZ3	1.90	0.75
1:F:356:GLN:CB	1:F:357:PRO:CD	2.57	0.75
1:A:830:ARG:NH1	1:F:309:GLN:HA	2.02	0.75
1:B:718:CYS:SG	1:B:720:ASN:HB3	2.26	0.75
1:C:258:LYS:O	1:C:263:GLU:OE2	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:195:SER:O	1:D:199:VAL:N	2.17	0.75
1:D:246:LEU:HD11	1:D:249:ALA:HB3	1.69	0.75
1:E:654:LYS:HZ1	1:E:694:ASP:CG	1.89	0.75
1:E:831:LEU:HA	1:E:834:ASN:HD21	1.51	0.75
1:F:584:MET:HB3	1:F:588:LYS:HZ2	1.49	0.75
1:F:702:MET:HB3	1:F:708:ILE:HA	1.68	0.75
1:C:168:SER:HA	1:C:264:ARG:NE	2.02	0.75
1:D:198:ARG:NH1	1:E:401:ALA:O	2.18	0.75
1:E:618:SER:H	2:E:1002:AGS:PB	2.10	0.75
1:F:344:SER:O	1:F:348:THR:OG1	2.04	0.75
1:F:655:LEU:HA	1:F:668:GLY:HA3	1.69	0.75
1:F:699:MET:HA	1:F:702:MET:HG2	1.69	0.75
1:A:575:ASP:HA	1:A:578:SER:HB3	1.68	0.75
1:B:407:ARG:NH2	1:B:538:GLN:O	2.16	0.75
1:B:587:ILE:HA	1:B:590:VAL:HB	1.68	0.75
1:B:674:GLN:HA	1:B:678:LYS:HE2	1.69	0.75
1:C:583:GLN:HG3	1:C:773:ASN:HD22	1.51	0.75
1:C:761:GLU:OE1	1:C:764:ASN:ND2	2.20	0.75
1:D:342:GLU:OE2	1:D:389:PRO:HD3	1.87	0.75
1:E:189:ARG:NH2	1:E:341:ALA:H	1.85	0.75
1:E:485:GLU:C	1:E:489:LYS:HZ3	1.90	0.75
1:A:265:PHE:O	1:A:269:LEU:N	2.18	0.75
1:B:305:LEU:O	1:B:309:GLN:N	2.20	0.75
1:B:322:ARG:HA	1:B:325:VAL:HB	1.69	0.75
1:B:615:LEU:O	1:B:618:SER:OG	2.05	0.75
1:D:248:LEU:O	1:D:251:LEU:N	2.19	0.75
1:E:394:ASP:O	1:E:398:ILE:N	2.13	0.75
1:E:802:TYR:CB	1:E:852:LYS:HA	2.17	0.75
1:E:839:LYS:HA	1:E:842:LEU:HB3	1.67	0.75
1:F:713:GLY:O	1:F:714:LYS:HB3	1.86	0.75
1:A:641:VAL:HG23	1:A:683:LEU:HD11	1.68	0.74
1:A:830:ARG:CZ	1:F:309:GLN:HA	2.17	0.74
1:C:365:VAL:HG12	1:C:366:ARG:H	1.52	0.74
1:D:849:ILE:HG22	1:D:851:ASP:H	1.52	0.74
1:E:205:LYS:HZ2	1:E:335:PHE:N	1.85	0.74
1:E:802:TYR:HB3	1:E:852:LYS:HA	1.68	0.74
1:A:205:LYS:NZ	1:B:397:ASP:HB3	2.01	0.74
1:A:287:HIS:CD2	1:A:290:MET:HB2	2.23	0.74
1:A:357:PRO:HA	1:A:360:GLU:HB3	1.68	0.74
1:A:596:LEU:HA	1:A:601:LEU:HD12	1.68	0.74
1:B:292:ASN:HB3	1:B:295:ASP:OD2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:333:ARG:NH1	1:C:334:ARG:CZ	2.50	0.74
1:C:470:LYS:O	1:C:474:GLU:N	2.19	0.74
1:C:611:LEU:HD13	1:C:770:VAL:HG12	1.69	0.74
1:C:639:ILE:HG13	1:C:678:LYS:HZ2	1.51	0.74
1:D:350:ALA:O	1:D:354:GLY:N	2.13	0.74
1:D:570:ILE:CA	1:D:595:ARG:HH12	2.00	0.74
1:F:629:GLY:O	1:F:633:ASN:N	2.20	0.74
1:F:678:LYS:HZ3	1:F:680:TYR:C	1.89	0.74
1:F:699:MET:O	1:F:703:LEU:N	2.18	0.74
1:A:857:VAL:HG22	1:A:878:GLU:HA	1.69	0.74
1:B:804:LEU:HA	1:B:855:VAL:HG23	1.67	0.74
1:C:203:ARG:HH11	1:D:363:HIS:CD2	2.05	0.74
1:C:542:ASP:OD1	1:C:543:SER:N	2.20	0.74
1:D:172:ILE:O	1:D:245:SER:N	2.18	0.74
1:D:799:ASP:OD2	1:D:850:LYS:HB3	1.87	0.74
1:E:196:THR:O	1:E:200:LEU:HG	1.86	0.74
1:E:407:ARG:HH12	1:E:538:GLN:CD	1.90	0.74
1:A:589:ALA:O	1:A:593:ALA:N	2.17	0.74
1:B:352:LEU:O	1:B:356:GLN:N	2.21	0.74
1:B:610:PHE:H	1:B:724:ILE:HD12	1.52	0.74
1:B:736:SER:HB3	1:B:742:ILE:HG23	1.69	0.74
1:C:583:GLN:HE21	1:C:773:ASN:N	1.86	0.74
1:D:400:CYS:O	1:D:404:ALA:N	2.18	0.74
1:D:466:TYR:O	1:D:470:LYS:N	2.13	0.74
1:E:191:GLU:OE1	1:E:191:GLU:N	2.20	0.74
1:E:398:ILE:HG21	1:E:549:THR:HG23	1.70	0.74
1:E:569:LEU:O	1:E:595:ARG:NH2	2.20	0.74
1:F:843:ARG:NH2	1:F:882:ASN:HA	2.01	0.74
1:B:848:GLU:HG3	1:B:849:ILE:H	1.52	0.74
1:D:216:ILE:N	2:D:1001:AGS:O1B	2.20	0.74
1:D:530:ARG:CZ	1:D:539:ASN:H	2.01	0.74
1:E:216:ILE:O	2:E:1001:AGS:O1B	2.05	0.74
1:E:802:TYR:OH	1:E:850:LYS:O	2.05	0.74
1:B:629:GLY:HA2	1:B:634:ASP:HA	1.70	0.74
1:E:476:LEU:HG	1:E:480:LYS:HE3	1.70	0.74
1:E:509:ALA:HB1	1:E:511:PRO:HD2	1.68	0.74
1:E:617:GLY:O	1:E:826:ARG:NH2	2.20	0.74
1:E:802:TYR:CG	1:E:852:LYS:HA	2.23	0.74
1:F:805:ASN:N	1:F:855:VAL:H	1.86	0.74
1:A:377:GLN:OE1	1:A:377:GLN:N	2.15	0.74
1:A:580:VAL:HG21	1:A:623:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLY:O	1:A:633:ASN:N	2.20	0.74
1:C:527:GLU:HG3	1:C:533:ALA:HA	1.67	0.74
1:D:681:SER:O	1:D:722:ILE:N	2.20	0.74
1:D:805:ASN:OD1	1:D:856:ASN:HA	1.87	0.74
1:E:583:GLN:HB3	1:E:586:ALA:HB3	1.68	0.74
1:F:239:GLN:H	1:F:278:LEU:HD12	1.51	0.74
1:F:377:GLN:O	1:F:381:ARG:N	2.20	0.74
1:F:623:LEU:HG	1:F:627:VAL:HG13	1.68	0.74
1:F:707:ARG:HG3	1:F:715:THR:CG2	2.15	0.74
1:F:843:ARG:NE	1:F:882:ASN:OD1	2.21	0.74
1:A:319:ASN:O	1:A:323:SER:N	2.21	0.74
1:B:250:ALA:N	1:B:264:ARG:HH12	1.83	0.74
1:C:262:GLU:HG3	1:C:266:LYS:HE2	1.70	0.74
1:C:469:GLU:O	1:C:473:HIS:N	2.21	0.74
1:C:583:GLN:HE22	1:C:775:LEU:HD11	1.52	0.74
1:D:194:ARG:HA	1:D:197:ILE:HD12	1.68	0.74
1:D:879:VAL:HG12	1:D:880:LEU:H	1.53	0.74
1:E:169:LYS:HE2	1:E:264:ARG:HB3	1.70	0.74
1:E:366:ARG:HG2	1:E:367:ILE:N	2.01	0.74
1:E:543:SER:HG	1:E:544:ASP:H	1.33	0.74
1:F:656:LEU:CD1	1:F:711:GLY:CA	2.66	0.74
1:A:228:ARG:NH1	1:A:233:ASP:OD1	2.20	0.74
1:B:272:ILE:O	1:B:275:SER:N	2.12	0.74
1:B:347:GLN:OE1	1:B:347:GLN:N	2.21	0.74
1:B:371:ALA:O	1:B:375:ALA:N	2.16	0.74
1:B:594:VAL:O	1:B:598:ARG:N	2.15	0.74
1:B:607:PRO:HG2	1:B:703:LEU:HD23	1.70	0.74
1:B:765:ARG:HH11	1:B:765:ARG:N	1.86	0.74
1:C:217:GLY:O	1:C:221:ILE:N	2.20	0.74
1:D:404:ALA:HA	1:D:407:ARG:HB2	1.68	0.74
1:D:844:ILE:O	1:D:847:ASN:ND2	2.21	0.74
1:E:534:ASN:ND2	1:E:538:GLN:H	1.85	0.74
1:F:563:GLU:CB	1:F:568:LYS:HB3	2.17	0.74
1:A:213:GLU:HB2	1:A:218:LYS:HZ3	1.53	0.74
1:A:710:SER:OG	1:A:714:LYS:N	2.21	0.74
1:B:207:ASN:OD1	1:B:336:GLN:N	2.17	0.74
1:B:246:LEU:N	1:B:283:ILE:HB	2.03	0.74
1:B:324:ILE:HA	1:B:327:LYS:HB2	1.69	0.74
1:B:583:GLN:H	1:B:773:ASN:ND2	1.86	0.74
1:B:619:GLY:HA2	1:B:622:GLU:HB3	1.69	0.74
1:C:318:ASN:O	1:C:322:ARG:N	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:371:ALA:O	1:C:374:THR:OG1	2.05	0.74
1:D:579:GLU:C	1:D:626:LYS:HZ3	1.92	0.74
1:D:673:ASN:O	1:D:677:TYR:N	2.17	0.74
1:E:338:ILE:HG22	1:E:339:GLU:H	1.53	0.74
1:F:699:MET:C	1:F:703:LEU:CG	2.40	0.74
1:A:595:ARG:NH2	1:B:838:ASN:O	2.12	0.73
1:C:708:ILE:HG13	1:C:717:ASP:OD2	1.88	0.73
1:D:637:MET:C	1:D:678:LYS:HZ3	1.90	0.73
1:E:262:GLU:HB2	1:E:297:ALA:HB1	1.70	0.73
1:E:687:GLU:OE2	1:E:728:ALA:HB3	1.88	0.73
1:F:219:THR:O	1:F:223:GLU:N	2.17	0.73
1:F:828:LEU:O	1:F:832:ILE:N	2.21	0.73
1:A:393:LEU:HA	1:A:396:VAL:HB	1.70	0.73
1:B:605:ARG:HG3	1:B:606:GLN:N	2.03	0.73
1:C:282:PHE:HB2	1:C:313:ILE:H	1.54	0.73
1:C:374:THR:O	1:C:378:LEU:N	2.20	0.73
1:D:203:ARG:NH1	1:E:363:HIS:CE1	2.55	0.73
1:D:316:THR:C	1:D:321:TYR:CD1	2.61	0.73
1:D:365:VAL:HG22	1:D:538:GLN:NE2	2.03	0.73
1:D:683:LEU:H	1:D:723:VAL:HA	1.53	0.73
1:D:804:LEU:HA	1:D:854:THR:HA	1.70	0.73
1:E:573:GLU:OE2	1:E:595:ARG:NE	2.20	0.73
1:F:547:SER:O	1:F:551:ALA:N	2.19	0.73
1:F:702:MET:CG	1:F:708:ILE:HG23	2.18	0.73
1:A:644:SER:N	1:A:686:ASP:O	2.21	0.73
1:C:783:ILE:O	1:C:787:ARG:N	2.18	0.73
1:D:272:ILE:HA	1:D:276:LYS:NZ	2.03	0.73
1:D:456:GLN:HA	1:D:459:LEU:HG	1.71	0.73
1:D:563:GLU:HA	1:D:568:LYS:NZ	2.03	0.73
1:E:385:TYR:O	1:E:386:ARG:NH1	2.21	0.73
1:E:569:LEU:HD21	1:E:595:ARG:HG2	1.67	0.73
1:F:564:SER:H	1:F:568:LYS:CD	2.01	0.73
1:A:374:THR:O	1:A:378:LEU:N	2.18	0.73
1:B:398:ILE:O	1:B:402:GLY:N	2.15	0.73
1:C:785:ASP:O	1:C:789:LYS:HG3	1.88	0.73
1:E:481:LYS:HG2	1:E:485:GLU:OE2	1.88	0.73
1:E:654:LYS:NZ	1:E:694:ASP:O	2.21	0.73
1:E:859:LEU:HA	1:E:876:CYS:HA	1.70	0.73
1:F:281:LEU:HD12	1:F:312:VAL:HG23	1.71	0.73
1:F:389:PRO:O	1:F:393:LEU:N	2.19	0.73
1:F:556:ILE:N	1:F:559:LYS:HZ3	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:605:ARG:CG	1:F:707:ARG:N	2.50	0.73
1:F:707:ARG:CG	1:F:715:THR:HG21	2.17	0.73
1:F:731:ALA:O	1:F:735:ASN:N	2.20	0.73
1:F:843:ARG:NH1	1:F:881:PRO:O	2.21	0.73
1:B:244:PHE:N	1:B:281:LEU:HB3	2.00	0.73
1:B:611:LEU:N	1:B:768:SER:O	2.21	0.73
1:B:621:THR:HA	1:B:624:ALA:HB3	1.70	0.73
1:B:843:ARG:NH1	1:B:846:LYS:HB3	2.03	0.73
1:C:371:ALA:O	1:C:375:ALA:N	2.17	0.73
1:C:576:LEU:HD23	1:C:579:GLU:OE2	1.87	0.73
1:D:218:LYS:HG2	2:D:1001:AGS:O2B	1.89	0.73
1:D:544:ASP:O	1:D:548:GLU:N	2.17	0.73
1:D:697:THR:O	1:D:700:LEU:HB3	1.89	0.73
1:D:809:GLU:OE2	1:D:856:ASN:HB2	1.88	0.73
1:E:602:ALA:HB1	1:E:606:GLN:HB2	1.69	0.73
1:E:611:LEU:HG	1:E:612:PHE:O	1.88	0.73
1:E:641:VAL:H	1:E:684:LEU:HD22	1.52	0.73
1:A:843:ARG:HG3	1:A:849:ILE:HD13	1.71	0.73
1:B:282:PHE:HB3	1:B:313:ILE:N	2.03	0.73
1:C:168:SER:CB	1:C:271:GLU:CD	2.54	0.73
1:E:311:LYS:HZ2	1:E:313:ILE:HD11	1.54	0.73
1:E:358:LYS:HZ2	1:E:359:TYR:HA	1.53	0.73
1:E:591:SER:O	1:E:595:ARG:N	2.15	0.73
1:E:606:GLN:OE1	1:F:794:ARG:NH1	2.22	0.73
1:E:610:PHE:N	1:E:724:ILE:HA	2.04	0.73
1:E:785:ASP:C	1:E:789:LYS:HZ3	1.91	0.73
1:F:710:SER:OG	1:F:714:LYS:N	2.21	0.73
1:B:650:TYR:H	1:B:692:HIS:HE1	1.33	0.73
1:C:235:PRO:O	1:C:239:GLN:N	2.22	0.73
1:C:390:ASP:O	1:C:393:LEU:N	2.21	0.73
1:C:392:ALA:O	1:C:395:LEU:HG	1.89	0.73
1:C:833:GLN:HA	1:C:836:ILE:HG12	1.69	0.73
1:D:811:LYS:HD2	1:D:811:LYS:N	2.00	0.73
1:D:811:LYS:HA	1:D:814:LEU:HD12	1.70	0.73
1:E:302:LYS:NZ	1:E:334:ARG:HD3	2.02	0.73
1:E:319:ASN:HA	1:E:322:ARG:NH1	2.04	0.73
1:F:209:CYS:N	1:F:336:GLN:O	2.21	0.73
1:F:356:GLN:HE21	1:F:367:ILE:HD13	1.48	0.73
1:F:742:ILE:HG22	1:F:747:LYS:NZ	2.03	0.73
1:F:804:LEU:HD23	1:F:853:GLU:HB3	1.69	0.73
1:A:390:ASP:O	1:A:394:ASP:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:LEU:N	1:B:691:ALA:H	1.86	0.73
1:C:190:GLU:HG2	1:C:191:GLU:N	2.03	0.73
1:C:275:SER:N	1:C:276:LYS:HZ3	1.87	0.73
1:D:723:VAL:HG13	1:D:725:MET:HG3	1.68	0.73
1:E:510:ILE:HD13	1:E:514:LYS:HZ1	1.53	0.73
1:F:331:PHE:C	1:F:334:ARG:HG2	2.09	0.73
1:F:625:LYS:HE2	1:F:637:MET:HB2	1.71	0.73
1:F:640:ARG:HA	1:F:684:LEU:CB	2.19	0.73
1:A:287:HIS:NE2	1:A:291:GLY:O	2.21	0.73
1:A:381:ARG:HG2	1:A:382:TYR:HD1	1.54	0.73
1:A:619:GLY:HA2	1:A:623:LEU:HD23	1.68	0.73
1:B:223:GLU:H	1:B:223:GLU:CD	1.90	0.73
1:B:265:PHE:HA	1:B:268:VAL:HB	1.71	0.73
1:B:296:ASP:OD1	1:B:301:LEU:N	2.21	0.73
1:C:255:ALA:HB1	1:C:256:LYS:HZ3	1.53	0.73
1:C:564:SER:O	1:C:565:GLU:HG2	1.89	0.73
1:C:605:ARG:HH12	1:C:765:ARG:CZ	2.01	0.73
1:C:843:ARG:HH12	1:C:848:GLU:CD	1.92	0.73
1:D:408:ASP:CG	1:D:409:SER:H	1.91	0.73
1:D:572:MET:HA	1:D:575:ASP:HB2	1.70	0.73
1:D:755:ARG:HG3	1:D:756:GLN:N	2.01	0.73
1:F:189:ARG:NH2	1:F:342:GLU:O	2.22	0.73
1:F:700:LEU:N	1:F:703:LEU:HD21	1.94	0.73
1:F:777:ARG:HG3	1:F:778:LYS:H	1.52	0.73
1:B:235:PRO:HD3	1:C:409:SER:HA	1.69	0.73
1:B:285:GLU:O	1:B:289:LEU:HG	1.89	0.73
1:B:648:GLU:CA	1:B:693:PRO:HD3	2.18	0.73
1:C:568:LYS:HG2	1:C:630:PHE:CE2	2.24	0.73
1:D:634:ASP:OD1	1:D:636:ASP:HB3	1.89	0.73
1:E:639:ILE:HB	1:E:683:LEU:HA	1.70	0.73
1:E:642:ASP:HB3	1:E:649:LYS:HZ1	1.53	0.73
1:E:651:ALA:O	1:E:657:GLY:N	2.19	0.73
1:E:693:PRO:O	1:E:696:LEU:N	2.22	0.73
1:A:274:GLU:O	1:A:276:LYS:NZ	2.22	0.72
1:A:659:THR:HG22	1:A:660:ALA:H	1.54	0.72
1:B:173:ASP:OD1	1:B:176:GLU:N	2.21	0.72
1:B:215:GLY:O	1:B:218:LYS:HG2	1.89	0.72
1:B:819:TYR:CE2	1:B:821:ASP:HA	2.24	0.72
1:C:211:ILE:HG21	1:C:315:ALA:HA	1.71	0.72
1:C:298:ALA:O	1:C:301:LEU:N	2.22	0.72
1:D:302:LYS:HZ2	1:D:306:SER:HA	1.50	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:524:VAL:HG12	1:D:526:GLU:H	1.54	0.72
1:D:681:SER:HG	1:D:721:CYS:HG	0.75	0.72
1:E:833:GLN:HG2	1:E:837:LEU:HD11	1.69	0.72
1:F:714:LYS:O	1:F:716:ILE:N	2.20	0.72
1:A:173:ASP:HA	1:A:245:SER:N	2.04	0.72
1:B:620:LYS:HZ3	1:B:826:ARG:NH1	1.86	0.72
1:C:592:ASN:N	1:C:595:ARG:NH1	2.37	0.72
1:C:693:PRO:HA	1:C:696:LEU:HD12	1.70	0.72
1:D:171:ALA:HA	1:D:246:LEU:HB2	1.70	0.72
1:D:217:GLY:N	2:D:1001:AGS:O1B	2.21	0.72
1:D:789:LYS:HG2	1:D:793:GLU:OE2	1.89	0.72
1:F:363:HIS:CE1	1:F:400:CYS:SG	2.82	0.72
1:F:592:ASN:HD22	1:F:768:SER:HB2	1.54	0.72
1:A:193:ILE:O	1:A:197:ILE:N	2.17	0.72
1:B:250:ALA:H	1:B:264:ARG:NH1	1.86	0.72
1:C:384:PRO:HG2	1:C:679:PRO:HG2	1.70	0.72
1:D:763:LEU:O	1:D:766:ILE:N	2.22	0.72
1:E:588:LYS:O	1:E:592:ASN:ND2	2.22	0.72
1:E:839:LYS:NZ	1:E:879:VAL:HA	2.04	0.72
1:F:214:PRO:O	2:F:1001:AGS:O2G	2.07	0.72
1:A:248:LEU:HD11	1:A:253:ALA:HB3	1.71	0.72
1:A:542:ASP:HA	1:A:546:ILE:HD12	1.71	0.72
1:B:216:ILE:HG13	1:B:220:ALA:HB2	1.69	0.72
1:B:359:TYR:OH	1:B:397:ASP:OD1	2.07	0.72
1:B:646:LEU:HD11	1:B:690:LYS:HZ1	1.54	0.72
1:C:303:PRO:O	1:C:334:ARG:NH2	2.23	0.72
1:D:226:ALA:HA	1:D:229:ILE:HD12	1.71	0.72
1:D:543:SER:OG	1:D:544:ASP:OD1	2.07	0.72
1:E:512:ASP:O	1:E:516:GLN:N	2.19	0.72
1:E:629:GLY:HA2	1:E:634:ASP:N	2.04	0.72
1:E:642:ASP:HB3	1:E:649:LYS:NZ	2.03	0.72
1:F:572:MET:HG3	1:F:630:PHE:CE2	2.24	0.72
1:B:203:ARG:HE	1:C:359:TYR:HE1	1.36	0.72
1:B:252:THR:O	1:B:264:ARG:NE	2.21	0.72
1:B:654:LYS:HZ2	1:B:694:ASP:CB	2.03	0.72
1:C:113:GLN:O	1:C:117:LEU:N	2.22	0.72
1:C:459:LEU:O	1:C:463:ARG:N	2.16	0.72
1:C:820:SER:H	1:C:824:GLY:HA3	1.55	0.72
1:C:820:SER:N	1:C:824:GLY:HA3	2.05	0.72
1:C:843:ARG:HA	1:C:846:LYS:HB2	1.71	0.72
1:D:165:GLU:OE1	1:D:170:TYR:OH	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:231:ASP:HB3	1:D:495:ARG:HG3	1.70	0.72
1:D:240:GLY:O	1:D:278:LEU:N	2.17	0.72
1:D:791:ILE:HG22	1:D:795:PHE:CZ	2.24	0.72
1:E:166:TYR:O	1:E:170:TYR:N	2.21	0.72
1:E:607:PRO:HG3	1:E:707:ARG:NH1	2.04	0.72
1:E:609:SER:OG	1:E:724:ILE:O	2.07	0.72
1:F:347:GLN:O	1:F:351:ILE:N	2.19	0.72
1:F:700:LEU:CB	1:F:703:LEU:HD22	2.09	0.72
1:F:835:GLU:HA	1:F:838:ASN:ND2	2.04	0.72
1:A:246:LEU:HB2	1:A:281:LEU:HB3	1.70	0.72
1:B:620:LYS:CG	1:B:826:ARG:HH12	2.02	0.72
1:B:673:ASN:O	1:B:677:TYR:N	2.18	0.72
1:C:205:LYS:NZ	1:C:334:ARG:N	2.33	0.72
1:C:222:ILE:O	1:C:225:VAL:HB	1.89	0.72
1:C:789:LYS:O	1:C:793:GLU:N	2.19	0.72
1:D:332:GLU:HA	1:D:335:PHE:CZ	2.24	0.72
1:D:377:GLN:H	1:D:377:GLN:CD	1.85	0.72
1:F:793:GLU:N	1:F:793:GLU:OE1	2.22	0.72
1:C:390:ASP:OD1	1:C:390:ASP:N	2.18	0.72
1:C:576:LEU:HA	1:C:579:GLU:OE2	1.90	0.72
1:D:563:GLU:N	1:D:563:GLU:OE1	2.22	0.72
1:D:737:GLN:H	1:D:774:LYS:HE2	1.55	0.72
1:D:827:PRO:HB2	1:D:831:LEU:HD11	1.72	0.72
1:E:704:ASP:O	1:E:707:ARG:NH1	2.23	0.72
1:E:858:VAL:HB	1:E:877:LEU:HB2	1.72	0.72
1:A:344:SER:H	1:A:347:GLN:HB2	1.53	0.72
1:A:563:GLU:OE1	1:A:568:LYS:HB2	1.90	0.72
1:B:621:THR:N	1:B:826:ARG:HH22	1.87	0.72
1:B:643:CYS:C	1:B:645:GLU:H	1.93	0.72
1:C:186:VAL:HG13	2:C:1001:AGS:C5	2.19	0.72
1:C:548:GLU:O	1:C:552:ARG:N	2.15	0.72
1:C:787:ARG:O	1:C:791:ILE:HG12	1.90	0.72
1:D:718:CYS:SG	1:D:719:SER:N	2.61	0.72
1:F:859:LEU:HD12	1:F:876:CYS:HA	1.72	0.72
1:A:316:THR:HG21	1:A:322:ARG:NH1	2.00	0.72
1:B:274:GLU:N	1:B:274:GLU:OE1	2.19	0.72
1:B:282:PHE:HD1	1:B:313:ILE:HB	1.53	0.72
1:C:782:LYS:O	1:C:784:VAL:N	2.23	0.72
1:E:303:PRO:HA	1:E:334:ARG:HH22	1.54	0.72
1:E:707:ARG:HG3	1:E:716:ILE:HG21	1.72	0.72
1:E:743:GLN:OE1	1:E:744:GLU:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:842:LEU:O	1:E:845:LEU:HG	1.90	0.72
1:F:857:VAL:HG11	1:F:880:LEU:HA	1.72	0.72
1:A:787:ARG:O	1:A:790:GLU:HB3	1.90	0.72
1:B:543:SER:OG	1:B:544:ASP:N	2.22	0.72
1:C:452:GLU:HA	1:C:455:LEU:HG	1.72	0.72
1:C:749:LEU:O	1:C:753:ALA:N	2.18	0.72
1:D:777:ARG:HA	1:D:780:ILE:HB	1.70	0.72
1:F:345:VAL:HA	1:F:380:LYS:HE3	1.72	0.72
1:A:244:PHE:HD2	1:A:281:LEU:N	1.88	0.71
1:A:802:TYR:CE2	1:A:804:LEU:HB2	2.24	0.71
1:B:173:ASP:CG	1:B:177:GLN:HG3	2.10	0.71
1:C:365:VAL:HA	1:C:473:HIS:HE1	1.53	0.71
1:D:203:ARG:NH1	1:E:363:HIS:CD2	2.58	0.71
1:D:286:ILE:HA	1:D:289:LEU:HB2	1.70	0.71
1:D:530:ARG:HH22	1:D:536:MET:H	1.35	0.71
1:E:228:ARG:HA	1:E:231:ASP:OD2	1.89	0.71
1:E:686:ASP:HA	1:E:726:THR:OG1	1.90	0.71
1:E:732:GLU:N	1:E:732:GLU:OE1	2.23	0.71
1:F:395:LEU:O	1:F:399:SER:N	2.22	0.71
1:F:627:VAL:O	1:F:631:LEU:N	2.22	0.71
1:B:282:PHE:CD1	1:B:313:ILE:HB	2.25	0.71
1:E:671:LEU:O	1:E:675:LEU:N	2.23	0.71
1:E:825:ALA:O	1:E:829:ASN:N	2.23	0.71
1:F:287:HIS:NE2	1:F:322:ARG:HD2	2.04	0.71
1:A:307:ARG:H	1:A:310:LEU:CD1	2.00	0.71
1:B:202:ARG:HG3	1:B:206:SER:OG	1.91	0.71
1:B:352:LEU:HA	1:B:355:LEU:HB2	1.71	0.71
1:C:168:SER:HB2	1:C:268:VAL:HG22	1.72	0.71
1:C:191:GLU:HB2	1:C:194:ARG:NH2	2.04	0.71
1:C:733:PHE:HB3	1:C:746:THR:HG23	1.72	0.71
1:D:459:LEU:HB3	1:D:463:ARG:HH22	1.54	0.71
1:D:777:ARG:O	1:D:781:HIS:N	2.23	0.71
1:D:845:LEU:O	1:D:847:ASN:ND2	2.23	0.71
1:E:195:SER:HA	1:E:198:ARG:HD2	1.73	0.71
1:E:323:SER:C	1:E:327:LYS:HZ3	1.92	0.71
1:E:645:GLU:H	1:E:649:LYS:HZ2	1.37	0.71
1:E:703:LEU:C	1:E:707:ARG:HH11	1.93	0.71
1:F:209:CYS:H	1:F:337:LYS:HA	1.54	0.71
1:F:574:ARG:O	1:F:577:SER:OG	2.08	0.71
1:F:654:LYS:HE2	1:F:694:ASP:OD2	1.90	0.71
1:A:647:SER:HA	1:A:692:HIS:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:828:LEU:HD12	1:A:831:LEU:HB3	1.73	0.71
1:B:650:TYR:N	1:B:692:HIS:HE1	1.87	0.71
1:C:168:SER:CA	1:C:264:ARG:NE	2.53	0.71
1:C:464:GLN:O	1:C:468:GLU:N	2.15	0.71
1:E:356:GLN:O	1:E:360:GLU:N	2.17	0.71
1:E:689:GLU:OE2	1:E:754:VAL:HG22	1.90	0.71
1:E:710:SER:O	1:E:714:LYS:HD3	1.91	0.71
1:E:831:LEU:HA	1:E:834:ASN:ND2	2.04	0.71
1:F:704:ASP:CA	1:F:765:ARG:CZ	2.68	0.71
2:F:1001:AGS:O2A	2:F:1001:AGS:O3B	2.07	0.71
1:C:373:VAL:O	1:C:377:GLN:N	2.22	0.71
1:C:543:SER:O	1:C:547:SER:OG	2.09	0.71
1:C:579:GLU:HB2	1:C:626:LYS:HZ1	1.54	0.71
1:C:748:ASN:O	1:C:751:MET:N	2.24	0.71
1:C:751:MET:O	1:C:755:ARG:N	2.18	0.71
1:D:258:LYS:HD2	1:D:261:PHE:HB3	1.72	0.71
1:D:503:ALA:HA	1:D:506:ARG:HB3	1.73	0.71
1:E:272:ILE:O	1:E:276:LYS:HB3	1.91	0.71
1:E:302:LYS:HA	1:E:305:LEU:HD12	1.72	0.71
1:F:219:THR:HA	1:F:222:ILE:HG12	1.71	0.71
1:B:803:LYS:N	1:B:853:GLU:HG2	2.06	0.71
1:C:203:ARG:HE	1:D:362:HIS:CD2	2.08	0.71
1:C:210:LEU:HD13	1:C:337:LYS:HA	1.73	0.71
1:C:219:THR:N	2:C:1001:AGS:O1B	2.23	0.71
1:C:588:LYS:O	1:C:591:SER:N	2.23	0.71
1:D:302:LYS:HA	1:D:305:LEU:HB2	1.72	0.71
1:D:456:GLN:HG3	1:D:459:LEU:HD12	1.73	0.71
1:D:482:LYS:O	1:D:486:LEU:N	2.17	0.71
1:D:565:GLU:HG2	1:D:566:ASN:H	1.55	0.71
1:E:432:GLU:O	1:E:442:LYS:NZ	2.19	0.71
1:E:496:ARG:NH1	1:E:499:THR:OG1	2.23	0.71
1:F:390:ASP:O	1:F:394:ASP:N	2.23	0.71
1:B:296:ASP:HA	1:B:300:ILE:H	1.54	0.71
1:C:228:ARG:HH22	1:D:409:SER:HB2	1.56	0.71
1:C:301:LEU:HD12	1:C:302:LYS:N	2.05	0.71
1:D:462:LEU:HD23	1:D:465:ARG:HD2	1.73	0.71
1:D:833:GLN:O	1:D:837:LEU:HG	1.89	0.71
1:E:547:SER:O	1:E:551:ALA:N	2.18	0.71
1:F:242:LYS:HZ3	1:F:277:THR:HG21	1.55	0.71
1:F:392:ALA:HA	1:F:395:LEU:HB2	1.72	0.71
1:F:704:ASP:CB	1:F:765:ARG:NH2	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:LEU:HA	1:A:671:LEU:HD12	1.72	0.71
1:A:828:LEU:O	1:A:832:ILE:N	2.18	0.71
1:B:648:GLU:HA	1:B:692:HIS:HA	1.71	0.71
1:B:790:GLU:OE1	1:B:791:ILE:HG13	1.90	0.71
1:C:417:LYS:HG2	1:C:456:GLN:HE22	1.56	0.71
1:D:218:LYS:NZ	2:D:1001:AGS:O1A	2.23	0.71
1:D:417:LYS:HE3	1:D:421:LEU:HB2	1.72	0.71
1:D:636:ASP:C	1:D:678:LYS:HZ1	1.93	0.71
1:D:823:MET:SD	1:D:827:PRO:HD3	2.30	0.71
1:E:272:ILE:HA	1:E:276:LYS:HD3	1.73	0.71
1:E:638:MET:SD	1:E:640:ARG:NH2	2.64	0.71
1:E:686:ASP:OD1	1:E:690:LYS:HG3	1.90	0.71
1:F:241:ALA:N	1:F:277:THR:HB	2.05	0.71
1:F:548:GLU:O	1:F:552:ARG:N	2.24	0.71
1:F:683:LEU:CD2	1:F:684:LEU:H	2.03	0.71
1:A:583:GLN:HB3	1:A:586:ALA:HB3	1.73	0.71
1:B:609:SER:OG	1:B:767:SER:N	2.23	0.71
1:B:848:GLU:HB2	1:B:882:ASN:HD22	1.56	0.71
1:C:809:GLU:OE1	1:C:809:GLU:N	2.22	0.71
1:D:213:GLU:O	2:D:1001:AGS:O2G	2.08	0.71
1:D:351:ILE:HG22	1:D:355:LEU:HD23	1.72	0.71
1:D:526:GLU:CB	1:D:529:ARG:H	2.03	0.71
1:E:574:ARG:O	1:E:577:SER:OG	2.08	0.71
1:E:623:LEU:O	1:E:627:VAL:N	2.21	0.71
1:F:812:ASP:C	1:F:816:LYS:HZ3	1.95	0.71
1:B:208:PRO:HG2	1:B:313:ILE:HG23	1.73	0.71
1:B:302:LYS:NZ	1:B:306:SER:N	2.39	0.71
1:B:646:LEU:HD21	1:B:686:ASP:CG	2.11	0.71
1:C:168:SER:CB	1:C:271:GLU:OE2	2.38	0.71
1:C:186:VAL:HA	2:C:1001:AGS:C6	2.21	0.71
1:C:372:LEU:O	1:C:376:ALA:N	2.14	0.71
1:C:473:HIS:CG	1:C:538:GLN:HB3	2.26	0.71
1:C:605:ARG:NH2	1:C:704:ASP:OD1	2.21	0.71
1:C:779:ALA:O	1:C:783:ILE:N	2.22	0.71
1:D:198:ARG:HG3	1:E:404:ALA:HB3	1.71	0.71
1:E:704:ASP:C	1:E:707:ARG:HH11	1.95	0.71
1:F:381:ARG:O	1:F:383:LEU:N	2.23	0.71
1:F:607:PRO:CG	1:F:703:LEU:O	2.38	0.71
1:F:612:PHE:HB3	1:F:726:THR:HA	1.72	0.71
1:F:702:MET:HB2	1:F:708:ILE:CG1	2.12	0.71
1:F:744:GLU:CA	1:F:747:LYS:HZ3	2.01	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:SER:O	1:B:198:ARG:HG2	1.91	0.70
1:B:766:ILE:O	1:C:830:ARG:NH2	2.24	0.70
1:C:205:LYS:HG2	1:C:336:GLN:HE21	1.56	0.70
1:C:242:LYS:O	1:C:280:VAL:N	2.24	0.70
1:C:759:ARG:HD3	1:C:760:PRO:HD2	1.73	0.70
1:D:459:LEU:O	1:D:463:ARG:N	2.16	0.70
1:D:486:LEU:HA	1:D:489:LYS:HB2	1.73	0.70
1:D:622:GLU:HG3	1:D:826:ARG:NH1	2.04	0.70
1:E:211:ILE:HG13	1:E:339:GLU:HG3	1.73	0.70
1:E:283:ILE:HB	1:E:286:ILE:HG21	1.73	0.70
1:E:564:SER:O	1:E:568:LYS:N	2.22	0.70
1:E:694:ASP:O	1:E:697:THR:HB	1.91	0.70
1:A:575:ASP:O	1:A:579:GLU:N	2.20	0.70
1:B:191:GLU:HB3	1:B:194:ARG:NH2	2.06	0.70
1:B:348:THR:HG22	1:B:352:LEU:HD11	1.73	0.70
1:C:36:LEU:O	1:C:40:ILE:N	2.23	0.70
1:C:708:ILE:HG22	1:C:709:THR:N	2.05	0.70
1:C:839:LYS:O	1:C:842:LEU:HB3	1.91	0.70
1:D:179:ARG:HH22	1:D:230:ILE:HG21	1.57	0.70
1:E:571:HIS:HD2	1:E:574:ARG:NH1	1.88	0.70
1:E:642:ASP:C	1:E:649:LYS:HZ3	1.94	0.70
1:E:688:VAL:O	1:E:690:LYS:HG2	1.91	0.70
1:F:855:VAL:HG22	1:F:880:LEU:HD22	1.71	0.70
1:A:222:ILE:HG22	1:A:282:PHE:HE2	1.55	0.70
1:A:339:GLU:N	1:A:339:GLU:OE1	2.24	0.70
1:B:259:GLY:O	1:B:263:GLU:N	2.19	0.70
1:C:712:GLN:C	1:C:714:LYS:NZ	2.45	0.70
1:C:744:GLU:O	1:C:747:LYS:HG2	1.90	0.70
1:D:265:PHE:CE1	1:D:269:LEU:HD21	2.25	0.70
1:D:669:GLY:O	1:D:673:ASN:N	2.24	0.70
1:D:721:CYS:SG	1:D:722:ILE:N	2.64	0.70
2:D:1001:AGS:H5'2	2:D:1001:AGS:C8	2.21	0.70
1:F:643:CYS:HA	1:F:646:LEU:HD12	1.73	0.70
1:A:551:ALA:O	1:A:555:GLY:N	2.20	0.70
1:A:822:ASP:HB2	1:F:333:ARG:NH1	2.05	0.70
1:B:555:GLY:O	1:B:556:ILE:HG12	1.92	0.70
1:B:641:VAL:H	1:B:684:LEU:HB3	1.57	0.70
1:C:261:PHE:C	1:C:265:PHE:HB3	2.11	0.70
1:C:568:LYS:NZ	1:C:630:PHE:CG	2.59	0.70
1:C:827:PRO:HA	1:C:830:ARG:HB3	1.73	0.70
1:D:282:PHE:HA	1:D:313:ILE:HG13	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:366:ARG:H	1:D:536:MET:HG3	1.56	0.70
1:D:624:ALA:O	1:D:628:ALA:N	2.14	0.70
1:D:718:CYS:O	1:D:719:SER:OG	2.08	0.70
1:E:304:ALA:N	1:E:307:ARG:HH11	1.88	0.70
1:E:368:LEU:H	1:E:540:VAL:HB	1.55	0.70
1:E:445:LEU:O	1:E:449:ARG:NE	2.24	0.70
1:E:613:LEU:HB3	1:E:771:ILE:HG12	1.73	0.70
1:E:832:ILE:O	1:E:835:GLU:HB3	1.92	0.70
1:E:833:GLN:O	1:E:837:LEU:N	2.24	0.70
1:F:704:ASP:HA	1:F:765:ARG:NE	2.06	0.70
1:F:794:ARG:NH1	1:F:795:PHE:CE1	2.51	0.70
1:F:811:LYS:HA	1:F:814:LEU:HD12	1.74	0.70
1:F:835:GLU:HG3	1:F:878:GLU:OE2	1.91	0.70
1:A:573:GLU:HG3	1:A:574:ARG:H	1.56	0.70
1:A:817:TYR:OH	1:A:875:GLU:O	2.09	0.70
1:B:704:ASP:HB2	1:B:707:ARG:NH1	2.05	0.70
1:B:761:GLU:O	1:B:765:ARG:N	2.24	0.70
1:D:302:LYS:HZ3	1:D:306:SER:HA	1.55	0.70
1:D:655:LEU:HD22	1:D:710:SER:HA	1.73	0.70
1:E:358:LYS:HZ3	1:E:362:HIS:CE1	2.09	0.70
1:E:462:LEU:HD12	1:E:465:ARG:HH11	1.56	0.70
1:E:637:MET:HA	1:E:678:LYS:HZ3	1.55	0.70
1:E:645:GLU:OE1	1:E:645:GLU:N	2.23	0.70
1:E:705:ASP:OD2	1:F:794:ARG:NH2	2.24	0.70
1:F:198:ARG:HB2	1:F:202:ARG:HH21	1.55	0.70
1:B:12:LEU:O	1:B:17:LEU:N	2.19	0.70
1:B:266:LYS:HA	1:B:269:LEU:HD22	1.72	0.70
1:B:740:SER:OG	1:B:774:LYS:O	2.09	0.70
1:B:856:ASN:H	1:B:880:LEU:HD11	1.56	0.70
1:D:620:LYS:HG3	1:D:621:THR:N	2.05	0.70
1:D:835:GLU:OE2	1:D:878:GLU:HB3	1.92	0.70
1:E:497:TYR:O	1:E:501:THR:HG23	1.91	0.70
1:E:602:ALA:HB1	1:E:606:GLN:CB	2.20	0.70
1:E:710:SER:OG	1:E:714:LYS:N	2.25	0.70
1:E:808:GLN:N	1:E:808:GLN:OE1	2.25	0.70
1:F:302:LYS:O	1:F:306:SER:OG	2.05	0.70
1:F:363:HIS:HE1	1:F:397:ASP:CA	1.87	0.70
1:A:620:LYS:O	1:A:624:ALA:N	2.21	0.70
1:A:800:LYS:HE3	1:A:851:ASP:HB2	1.73	0.70
1:B:348:THR:O	1:B:352:LEU:HG	1.91	0.70
1:B:359:TYR:HA	1:B:362:HIS:HB3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:743:GLN:NE2	1:B:744:GLU:H	1.90	0.70
1:C:613:LEU:HG	1:C:772:PHE:H	1.55	0.70
1:C:815:ALA:O	1:C:819:TYR:N	2.24	0.70
1:D:175:THR:HA	1:D:178:ALA:HB3	1.74	0.70
1:D:572:MET:HG2	1:D:576:LEU:HG	1.74	0.70
1:D:765:ARG:HH21	1:E:640:ARG:NH1	1.90	0.70
1:E:328:ASP:OD2	1:E:331:PHE:HB2	1.91	0.70
1:E:382:TYR:OH	1:E:560:LYS:O	2.06	0.70
1:F:654:LYS:HB2	1:F:657:GLY:H	1.55	0.70
1:F:781:HIS:CE1	1:F:782:LYS:HG3	2.26	0.70
1:C:169:LYS:CD	1:C:264:ARG:HD2	0.29	0.70
1:C:210:LEU:HB2	1:C:338:ILE:N	2.03	0.70
1:C:262:GLU:HA	1:C:265:PHE:CD2	2.27	0.70
1:C:489:LYS:O	1:C:493:ALA:N	2.25	0.70
1:C:583:GLN:HG2	1:C:772:PHE:O	1.91	0.70
1:C:785:ASP:CB	1:C:789:LYS:HZ2	2.04	0.70
1:D:281:LEU:O	1:D:313:ILE:N	2.25	0.70
1:D:348:THR:O	1:D:352:LEU:HG	1.91	0.70
1:E:242:LYS:CB	1:E:279:ILE:HG12	2.22	0.70
1:E:762:PHE:O	1:E:766:ILE:N	2.24	0.70
1:F:189:ARG:HD2	1:F:340:VAL:HB	1.73	0.70
1:F:209:CYS:O	1:F:338:ILE:N	2.17	0.70
1:A:178:ALA:HA	1:A:182:LYS:HB2	1.74	0.70
1:A:747:LYS:O	1:A:751:MET:N	2.21	0.70
1:B:270:LYS:O	1:B:273:GLU:N	2.25	0.70
1:C:14:ILE:C	1:C:160:THR:H	1.95	0.70
1:C:366:ARG:CZ	1:C:539:ASN:HB3	2.22	0.70
1:C:428:ILE:O	1:C:449:ARG:NH2	2.25	0.70
1:C:625:LYS:O	1:C:627:VAL:N	2.24	0.70
1:D:218:LYS:O	1:D:222:ILE:HG12	1.91	0.70
1:D:437:ALA:HB2	1:D:443:ASP:OD2	1.92	0.70
1:D:781:HIS:NE2	1:D:808:GLN:OE1	2.25	0.70
1:E:202:ARG:NH1	1:E:205:LYS:H	1.90	0.70
1:F:696:LEU:O	1:F:700:LEU:N	2.24	0.70
1:A:569:LEU:HD12	1:A:572:MET:HG2	1.73	0.70
1:A:781:HIS:CE1	1:A:782:LYS:NZ	2.59	0.70
1:B:391:SER:O	1:B:395:LEU:N	2.22	0.70
1:C:175:THR:H	1:C:242:LYS:HE2	1.55	0.70
1:C:228:ARG:NH1	1:D:408:ASP:OD1	2.24	0.70
1:C:251:LEU:HD12	1:C:252:THR:H	1.56	0.70
1:C:737:GLN:HA	1:C:774:LYS:HZ1	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:834:ASN:HD22	1:C:837:LEU:HD21	1.57	0.70
1:C:875:GLU:O	1:C:877:LEU:HG	1.91	0.70
1:D:672:THR:HA	1:D:675:LEU:CG	2.20	0.70
1:E:645:GLU:HB2	1:E:649:LYS:NZ	2.07	0.70
1:F:638:MET:SD	1:F:683:LEU:HA	2.32	0.70
1:F:838:ASN:O	1:F:842:LEU:N	2.19	0.70
1:C:625:LYS:HG2	1:C:635:GLU:OE1	1.92	0.69
1:C:743:GLN:CB	1:C:746:THR:H	2.05	0.69
1:D:537:ILE:O	1:D:540:VAL:HG12	1.92	0.69
1:D:612:PHE:H	1:D:770:VAL:HB	1.56	0.69
1:D:642:ASP:O	1:D:644:SER:N	2.25	0.69
1:E:173:ASP:HA	1:E:244:PHE:HA	1.72	0.69
1:E:305:LEU:O	1:E:309:GLN:N	2.23	0.69
1:E:576:LEU:CA	1:E:579:GLU:HG2	2.22	0.69
1:E:632:PHE:CE1	1:E:680:TYR:HB3	2.27	0.69
1:E:746:THR:O	1:E:750:VAL:N	2.23	0.69
1:E:785:ASP:OD1	1:E:786:ILE:HD12	1.92	0.69
1:E:805:ASN:OD1	1:E:805:ASN:N	2.23	0.69
1:F:827:PRO:O	1:F:830:ARG:N	2.24	0.69
1:B:190:GLU:O	1:B:194:ARG:N	2.16	0.69
1:B:549:THR:C	1:B:552:ARG:NH1	2.44	0.69
1:C:170:TYR:OH	1:C:250:ALA:H	1.07	0.69
1:C:351:ILE:HG12	2:C:1001:AGS:HN61	1.57	0.69
1:D:475:GLU:O	1:D:479:ALA:N	2.26	0.69
1:E:344:SER:O	1:E:348:THR:OG1	2.10	0.69
1:E:395:LEU:O	1:E:399:SER:N	2.17	0.69
1:E:523:GLN:NE2	1:E:527:GLU:OE2	2.14	0.69
1:E:618:SER:OG	2:E:1002:AGS:O3A	2.06	0.69
1:E:619:GLY:N	2:E:1002:AGS:O4'	2.25	0.69
1:E:622:GLU:O	1:E:626:LYS:HG2	1.92	0.69
1:E:626:LYS:HD3	1:E:635:GLU:OE2	1.93	0.69
1:F:814:LEU:O	1:F:818:GLY:N	2.23	0.69
1:A:191:GLU:N	1:A:191:GLU:OE1	2.24	0.69
1:A:802:TYR:HB2	1:A:853:GLU:HB3	1.73	0.69
1:A:843:ARG:HA	1:A:846:LYS:HB2	1.73	0.69
1:B:172:ILE:HD12	1:B:174:MET:H	1.57	0.69
1:B:280:VAL:HG12	1:B:310:LEU:HA	1.72	0.69
1:C:262:GLU:OE2	1:C:263:GLU:OE2	2.10	0.69
1:C:379:ALA:O	1:C:382:TYR:N	2.22	0.69
1:C:784:VAL:HG22	1:C:811:LYS:NZ	2.08	0.69
1:D:228:ARG:HD3	1:D:231:ASP:OD2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:787:ARG:O	1:D:790:GLU:HB3	1.93	0.69
1:E:205:LYS:HZ2	1:E:334:ARG:C	1.95	0.69
1:E:303:PRO:HB2	1:E:307:ARG:CZ	2.22	0.69
1:E:698:VAL:O	1:E:702:MET:N	2.19	0.69
1:F:392:ALA:O	1:F:396:VAL:N	2.17	0.69
1:F:801:HIS:HB2	1:F:852:LYS:HG2	1.72	0.69
1:A:168:SER:O	1:A:171:ALA:N	2.26	0.69
1:A:541:VAL:HG12	1:A:543:SER:H	1.57	0.69
1:A:543:SER:O	1:A:548:GLU:N	2.25	0.69
1:A:563:GLU:OE1	1:A:568:LYS:HE3	1.92	0.69
1:B:548:GLU:HG2	1:B:560:LYS:NZ	2.07	0.69
1:B:839:LYS:HZ3	1:B:877:LEU:HD23	1.57	0.69
1:C:628:ALA:N	1:C:635:GLU:OE2	2.26	0.69
1:C:754:VAL:HB	1:C:755:ARG:NH1	2.07	0.69
1:D:609:SER:O	1:D:768:SER:N	2.25	0.69
1:E:262:GLU:OE2	1:E:300:ILE:HB	1.91	0.69
1:E:359:TYR:HA	1:E:362:HIS:CE1	2.27	0.69
1:B:232:ASP:HA	1:B:238:LEU:HD11	1.74	0.69
1:C:323:SER:HA	1:C:326:GLU:OE2	1.92	0.69
1:C:428:ILE:HG23	1:C:449:ARG:NH1	2.06	0.69
1:C:454:SER:HA	1:C:457:GLU:HB3	1.74	0.69
1:D:173:ASP:HB2	1:D:244:PHE:CD1	2.28	0.69
1:D:765:ARG:HH21	1:E:640:ARG:HH12	1.40	0.69
1:E:166:TYR:N	1:E:169:LYS:HB2	2.07	0.69
1:E:442:LYS:HA	1:E:445:LEU:HB3	1.72	0.69
1:E:584:MET:O	1:E:588:LYS:N	2.19	0.69
1:E:826:ARG:HA	1:E:829:ASN:ND2	2.08	0.69
1:F:217:GLY:N	2:F:1001:AGS:O3G	2.25	0.69
1:F:363:HIS:HE2	1:F:400:CYS:HG	1.38	0.69
1:F:572:MET:HG3	1:F:630:PHE:CD2	2.27	0.69
1:A:199:VAL:HG11	1:A:208:PRO:HD3	1.74	0.69
1:B:202:ARG:HH12	1:B:205:LYS:HB2	1.55	0.69
1:B:758:PHE:HB2	1:B:763:LEU:HD11	1.74	0.69
1:B:839:LYS:NZ	1:B:877:LEU:HA	2.07	0.69
1:C:169:LYS:H	1:C:264:ARG:NH2	1.89	0.69
1:C:169:LYS:CD	1:C:264:ARG:HH11	1.98	0.69
1:C:185:PRO:HG2	1:C:355:LEU:HD11	1.75	0.69
1:C:534:ASN:HB3	1:C:537:ILE:HA	1.75	0.69
1:C:800:LYS:HE2	1:C:850:LYS:HA	1.73	0.69
1:D:18:ALA:O	1:D:37:ALA:N	2.14	0.69
1:E:332:GLU:OE2	1:E:337:LYS:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:610:PHE:HA	1:E:768:SER:O	1.92	0.69
1:E:795:PHE:CG	1:E:796:GLU:N	2.61	0.69
1:F:363:HIS:NE2	1:F:397:ASP:CA	2.50	0.69
1:F:805:ASN:OD1	1:F:806:LEU:N	2.26	0.69
1:A:179:ARG:HD2	1:A:242:LYS:HZ1	1.57	0.69
1:A:572:MET:HB2	1:A:630:PHE:CE1	2.27	0.69
1:B:226:ALA:HA	1:B:229:ILE:HB	1.75	0.69
1:B:324:ILE:O	1:B:328:ASP:N	2.25	0.69
1:B:397:ASP:O	1:B:401:ALA:N	2.21	0.69
1:B:634:ASP:OD1	1:B:635:GLU:N	2.25	0.69
1:B:831:LEU:O	1:B:835:GLU:N	2.24	0.69
1:C:172:ILE:C	1:C:244:PHE:HD1	1.96	0.69
1:C:228:ARG:NH1	1:C:233:ASP:O	2.26	0.69
1:C:275:SER:OG	1:C:276:LYS:N	2.26	0.69
1:C:368:LEU:HB2	1:C:540:VAL:O	1.92	0.69
1:E:646:LEU:HB2	1:E:649:LYS:HB2	1.74	0.69
1:A:200:LEU:HD13	1:A:238:LEU:HD21	1.73	0.69
1:A:649:LYS:O	1:A:653:SER:OG	2.06	0.69
1:C:302:LYS:HZ3	1:C:306:SER:HA	1.56	0.69
1:C:374:THR:OG1	1:C:375:ALA:N	2.24	0.69
1:C:483:LEU:HD11	1:C:513:ILE:HA	1.75	0.69
1:C:746:THR:O	1:C:748:ASN:N	2.26	0.69
1:C:787:ARG:CZ	1:C:826:ARG:HH21	2.06	0.69
1:D:214:PRO:HD2	1:D:387:ARG:NH2	2.08	0.69
1:D:220:ALA:O	1:D:224:GLY:N	2.24	0.69
1:D:260:ASP:HA	1:D:263:GLU:HB2	1.75	0.69
1:D:460:GLU:HA	1:D:463:ARG:HH11	1.57	0.69
1:D:610:PHE:H	1:D:724:ILE:HG23	1.58	0.69
1:D:703:LEU:HG	1:D:704:ASP:OD1	1.92	0.69
1:D:755:ARG:HH12	1:D:756:GLN:HB3	1.56	0.69
1:E:344:SER:OG	1:E:347:GLN:HB2	1.92	0.69
1:E:585:ASP:N	1:E:585:ASP:OD1	2.23	0.69
1:E:611:LEU:O	1:E:769:ILE:HG23	1.92	0.69
1:E:807:THR:OG1	1:E:808:GLN:OE1	2.06	0.69
1:F:284:ASP:O	1:F:315:ALA:N	2.25	0.69
1:F:708:ILE:HD11	1:F:718:CYS:HB2	1.74	0.69
1:A:658:THR:HG22	1:A:659:THR:H	1.57	0.69
1:B:371:ALA:O	1:B:374:THR:OG1	2.06	0.69
1:D:763:LEU:O	1:D:766:ILE:HG12	1.92	0.69
1:D:802:TYR:CZ	1:D:853:GLU:HG3	2.28	0.69
1:E:202:ARG:HG3	1:F:397:ASP:OD2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:366:ARG:HH12	1:E:368:LEU:N	1.91	0.69
1:E:645:GLU:HB2	1:E:649:LYS:HZ1	1.56	0.69
1:A:280:VAL:HG13	1:A:311:LYS:O	1.93	0.69
1:A:674:GLN:HA	1:A:677:TYR:CD2	2.28	0.69
1:A:742:ILE:HG23	1:A:746:THR:HB	1.75	0.69
1:B:198:ARG:HB2	1:C:401:ALA:HB1	1.72	0.69
1:B:351:ILE:HG13	1:B:355:LEU:HD13	1.74	0.69
1:B:547:SER:HB3	1:B:560:LYS:NZ	2.07	0.69
1:B:647:SER:H	1:B:691:ALA:N	1.91	0.69
1:C:203:ARG:HG2	1:C:204:ILE:H	1.58	0.69
1:C:687:GLU:O	1:C:688:VAL:HG12	1.93	0.69
1:C:750:VAL:O	1:C:754:VAL:N	2.20	0.69
1:D:699:MET:HE3	1:D:759:ARG:HH22	1.57	0.69
1:D:823:MET:SD	1:D:826:ARG:HB2	2.33	0.69
1:E:205:LYS:O	1:E:336:GLN:NE2	2.26	0.69
1:E:216:ILE:O	2:E:1001:AGS:O1A	2.10	0.69
1:E:285:GLU:O	1:E:288:MET:N	2.26	0.69
1:E:365:VAL:HG23	1:E:366:ARG:O	1.92	0.69
1:E:615:LEU:O	2:E:1002:AGS:O2B	2.11	0.69
2:E:1002:AGS:O1B	2:E:1002:AGS:H4'	1.92	0.69
1:A:689:GLU:HA	1:A:757:HIS:CE1	2.28	0.68
1:B:242:LYS:NZ	1:B:277:THR:HG21	2.08	0.68
1:B:391:SER:HA	1:B:394:ASP:HB2	1.75	0.68
1:B:743:GLN:HG3	1:B:745:SER:H	1.58	0.68
1:B:841:ALA:HA	1:B:844:ILE:HD12	1.76	0.68
1:C:168:SER:C	1:C:264:ARG:HE	1.97	0.68
1:D:218:LYS:HA	1:D:221:ILE:HB	1.75	0.68
1:D:776:SER:O	1:D:780:ILE:N	2.24	0.68
1:E:205:LYS:HB2	1:E:336:GLN:NE2	2.07	0.68
1:E:647:SER:HB2	1:E:692:HIS:HD2	1.57	0.68
1:E:823:MET:HG2	1:E:826:ARG:HB2	1.74	0.68
1:F:262:GLU:O	1:F:266:LYS:N	2.26	0.68
1:A:250:ALA:HA	1:A:264:ARG:CZ	2.24	0.68
1:A:345:VAL:O	1:A:349:VAL:N	2.23	0.68
1:A:376:ALA:O	1:A:380:LYS:N	2.20	0.68
1:A:611:LEU:HD21	1:A:726:THR:HG22	1.74	0.68
1:A:834:ASN:OD1	1:A:838:ASN:ND2	2.25	0.68
1:B:401:ALA:O	1:B:405:VAL:N	2.21	0.68
1:B:582:GLY:HA2	1:B:773:ASN:HD21	1.58	0.68
1:C:413:GLU:O	1:C:417:LYS:N	2.21	0.68
1:D:203:ARG:NH1	1:E:363:HIS:CG	2.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:LEU:HD11	1:D:310:LEU:HB3	1.75	0.68
1:D:641:VAL:HB	1:D:685:PHE:CD2	2.29	0.68
1:F:379:ALA:HA	1:F:383:LEU:HD12	1.74	0.68
1:B:170:TYR:HB2	1:B:250:ALA:C	2.14	0.68
1:B:332:GLU:HA	1:B:335:PHE:HB2	1.75	0.68
1:C:370:SER:O	1:C:373:VAL:N	2.26	0.68
1:C:819:TYR:HA	1:C:824:GLY:O	1.92	0.68
1:D:503:ALA:O	1:D:507:TYR:N	2.24	0.68
1:D:767:SER:HA	1:E:830:ARG:HH12	1.57	0.68
1:D:809:GLU:CD	1:D:811:LYS:HZ2	1.97	0.68
1:E:228:ARG:HD2	1:E:231:ASP:HB2	1.75	0.68
1:E:242:LYS:O	1:E:279:ILE:HA	1.93	0.68
1:E:265:PHE:HA	1:E:268:VAL:HB	1.74	0.68
1:E:571:HIS:HD2	1:E:574:ARG:HH11	1.41	0.68
1:E:652:VAL:O	1:E:669:GLY:N	2.26	0.68
1:E:787:ARG:NH2	1:E:829:ASN:O	2.26	0.68
1:F:360:GLU:OE1	1:F:367:ILE:HB	1.93	0.68
1:F:605:ARG:NH1	1:F:706:GLY:N	2.41	0.68
1:A:251:LEU:O	1:A:254:GLY:N	2.26	0.68
1:B:248:LEU:HB3	1:B:253:ALA:HB2	1.74	0.68
1:B:353:ARG:NH1	1:B:373:VAL:H	1.91	0.68
1:B:353:ARG:CZ	1:B:369:ASP:HB2	2.23	0.68
1:B:544:ASP:OD1	1:B:545:THR:N	2.27	0.68
1:C:14:ILE:N	1:C:160:THR:H	1.91	0.68
1:C:754:VAL:HB	1:C:755:ARG:HH11	1.58	0.68
1:C:846:LYS:NZ	1:C:882:ASN:HD21	1.91	0.68
1:D:198:ARG:HH22	1:E:406:ALA:N	1.92	0.68
1:D:226:ALA:O	1:D:230:ILE:N	2.26	0.68
1:D:691:ALA:HB3	1:D:696:LEU:HD11	1.75	0.68
1:E:411:PRO:HA	1:E:414:LEU:HD12	1.74	0.68
1:E:833:GLN:O	1:E:837:LEU:HG	1.94	0.68
1:F:207:ASN:HB2	1:F:335:PHE:CG	2.28	0.68
1:F:568:LYS:HG2	1:F:571:HIS:HD2	1.58	0.68
1:A:378:LEU:O	1:A:381:ARG:HG2	1.92	0.68
1:B:302:LYS:HD2	1:B:305:LEU:HD12	1.75	0.68
1:B:385:TYR:CZ	1:B:386:ARG:NH1	2.61	0.68
1:C:401:ALA:O	1:C:405:VAL:N	2.25	0.68
1:C:605:ARG:HG3	1:C:606:GLN:N	2.08	0.68
1:D:172:ILE:C	1:D:245:SER:H	1.97	0.68
1:D:597:SER:O	1:D:600:GLY:N	2.26	0.68
1:D:837:LEU:HA	1:D:840:LEU:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:196:THR:O	1:E:200:LEU:N	2.24	0.68
1:E:218:LYS:HD3	1:E:387:ARG:HH22	1.58	0.68
1:E:296:ASP:O	1:E:300:ILE:N	2.23	0.68
1:F:378:LEU:HA	1:F:381:ARG:HB3	1.74	0.68
1:F:878:GLU:HG2	1:F:879:VAL:H	1.57	0.68
1:A:192:GLU:N	1:A:192:GLU:OE1	2.27	0.68
1:A:325:VAL:O	1:A:329:GLY:N	2.27	0.68
1:C:416:SER:OG	1:C:420:GLN:OE1	2.12	0.68
1:D:262:GLU:OE2	1:D:263:GLU:HG2	1.94	0.68
1:D:576:LEU:O	1:D:580:VAL:N	2.27	0.68
1:D:611:LEU:H	1:D:769:ILE:HA	1.58	0.68
1:D:775:LEU:O	1:D:780:ILE:HG13	1.92	0.68
1:E:597:SER:O	1:E:601:LEU:HA	1.93	0.68
1:E:712:GLN:N	1:E:714:LYS:NZ	2.36	0.68
1:F:552:ARG:HB2	1:F:552:ARG:CZ	2.24	0.68
1:A:777:ARG:HA	1:A:780:ILE:CG1	2.23	0.68
1:C:198:ARG:O	1:C:201:ALA:N	2.22	0.68
1:C:275:SER:N	1:C:276:LYS:NZ	2.42	0.68
1:C:613:LEU:N	1:C:726:THR:HB	2.09	0.68
1:C:686:ASP:CB	1:C:690:LYS:HZ1	2.04	0.68
1:C:751:MET:O	1:C:755:ARG:HG2	1.94	0.68
1:C:786:ILE:HG13	1:C:789:LYS:HZ3	1.59	0.68
1:D:216:ILE:HB	2:D:1001:AGS:O2A	1.94	0.68
1:D:815:ALA:C	1:D:818:GLY:H	1.96	0.68
1:D:842:LEU:HG	1:D:846:LYS:HZ1	1.58	0.68
1:E:476:LEU:HD12	1:E:479:ALA:HB3	1.76	0.68
1:E:522:ASP:O	1:E:526:GLU:N	2.24	0.68
1:E:571:HIS:CD2	1:E:574:ARG:NH1	2.62	0.68
1:B:613:LEU:HG	1:B:771:ILE:HA	1.75	0.68
1:B:654:LYS:HZ2	1:B:694:ASP:HB2	1.58	0.68
1:C:260:ASP:CA	1:C:263:GLU:HG2	2.18	0.68
1:C:287:HIS:NE2	1:C:315:ALA:O	2.27	0.68
1:C:496:ARG:HB2	1:C:498:ASP:OD1	1.93	0.68
1:C:789:LYS:HB3	1:C:793:GLU:OE2	1.93	0.68
1:C:835:GLU:HA	1:C:838:ASN:ND2	2.06	0.68
1:D:403:VAL:HG22	1:D:540:VAL:HG21	1.74	0.68
1:E:212:GLY:H	1:E:317:THR:HA	1.59	0.68
1:E:558:VAL:HA	1:E:561:LEU:HB2	1.76	0.68
1:E:833:GLN:C	1:E:837:LEU:HG	2.14	0.68
1:E:843:ARG:NE	1:E:881:PRO:O	2.26	0.68
1:F:263:GLU:HA	1:F:266:LYS:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:VAL:HG13	1:F:311:LYS:C	2.14	0.68
1:A:222:ILE:HG22	1:A:282:PHE:CE2	2.27	0.68
1:A:346:ARG:HD2	1:A:349:VAL:HB	1.75	0.68
1:B:673:ASN:OD1	1:B:674:GLN:N	2.27	0.68
1:C:386:ARG:HG3	1:C:390:ASP:OD2	1.94	0.68
1:D:202:ARG:HH12	1:D:205:LYS:CB	2.07	0.68
1:D:229:ILE:HG12	1:D:233:ASP:HB2	1.76	0.68
1:D:251:LEU:HA	1:D:261:PHE:CZ	2.29	0.68
1:D:262:GLU:O	1:D:265:PHE:HD2	1.76	0.68
1:D:799:ASP:N	1:D:801:HIS:CD2	2.60	0.68
1:D:800:LYS:NZ	1:D:801:HIS:NE2	2.42	0.68
1:E:270:LYS:O	1:E:273:GLU:N	2.27	0.68
1:E:270:LYS:O	1:E:274:GLU:N	2.27	0.68
1:E:281:LEU:HD23	1:E:282:PHE:N	2.09	0.68
1:A:617:GLY:O	1:A:620:LYS:NZ	2.27	0.68
1:A:758:PHE:HZ	1:A:763:LEU:HB2	1.59	0.68
1:A:777:ARG:O	1:A:781:HIS:N	2.26	0.68
1:B:645:GLU:HA	1:B:691:ALA:CB	2.15	0.68
1:C:222:ILE:O	1:C:226:ALA:N	2.25	0.68
1:C:672:THR:HG1	1:C:673:ASN:H	1.40	0.68
1:D:235:PRO:HD3	1:E:408:ASP:HB2	1.76	0.68
1:D:269:LEU:HA	1:D:272:ILE:HD11	1.75	0.68
1:D:566:ASN:OD1	1:D:566:ASN:N	2.27	0.68
1:E:556:ILE:HB	1:E:560:LYS:HD3	1.75	0.68
1:E:620:LYS:HA	1:E:623:LEU:HB3	1.76	0.68
1:E:737:GLN:OE1	1:E:743:GLN:N	2.20	0.68
1:F:542:ASP:OD2	1:F:544:ASP:OD2	2.12	0.68
1:F:544:ASP:O	1:F:547:SER:OG	2.11	0.68
1:F:622:GLU:HB2	2:F:1002:AGS:H5'2	1.76	0.68
1:F:683:LEU:HD23	1:F:684:LEU:HG	1.76	0.68
1:F:880:LEU:HD12	1:F:881:PRO:HD2	1.76	0.68
1:C:226:ALA:HA	1:C:229:ILE:HD12	1.76	0.67
1:C:402:GLY:O	1:C:406:ALA:N	2.18	0.67
1:C:650:TYR:HH	1:C:654:LYS:NZ	1.88	0.67
1:D:328:ASP:HB3	1:D:331:PHE:HB3	1.74	0.67
1:E:237:ILE:HG22	1:E:278:LEU:HD22	1.75	0.67
1:E:302:LYS:HG2	1:E:334:ARG:NH1	2.09	0.67
1:E:348:THR:HG22	1:E:352:LEU:HD11	1.76	0.67
1:E:358:LYS:NZ	1:E:359:TYR:HA	2.09	0.67
1:E:442:LYS:O	1:E:446:LYS:N	2.26	0.67
1:F:286:ILE:HG13	1:F:322:ARG:HD3	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:611:LEU:HD11	1:F:725:MET:HB3	1.77	0.67
1:F:695:VAL:HA	1:F:698:VAL:HB	1.76	0.67
1:B:18:ALA:O	1:B:22:ALA:N	2.27	0.67
1:B:645:GLU:HB3	1:B:692:HIS:CD2	2.30	0.67
1:B:671:LEU:O	1:B:675:LEU:HG	1.94	0.67
1:C:333:ARG:NH1	1:C:334:ARG:NE	2.41	0.67
1:C:333:ARG:HH11	1:C:334:ARG:CG	2.06	0.67
1:C:754:VAL:O	1:C:756:GLN:N	2.27	0.67
1:D:619:GLY:HA2	1:D:622:GLU:HB2	1.76	0.67
1:E:202:ARG:HG2	1:E:204:ILE:H	1.60	0.67
1:E:207:ASN:HA	1:E:313:ILE:HD11	1.74	0.67
1:E:365:VAL:HG12	1:E:538:GLN:HB2	1.75	0.67
1:E:817:TYR:OH	1:E:874:GLU:HB3	1.94	0.67
1:F:174:MET:SD	1:F:177:GLN:HB2	2.34	0.67
1:F:743:GLN:O	1:F:747:LYS:NZ	2.27	0.67
1:F:803:LYS:NZ	1:F:852:LYS:C	2.48	0.67
1:A:169:LYS:HG2	1:A:264:ARG:NH2	2.08	0.67
1:A:622:GLU:O	1:A:626:LYS:N	2.20	0.67
1:B:202:ARG:NE	1:B:204:ILE:O	2.26	0.67
1:B:222:ILE:N	1:B:223:GLU:OE1	2.26	0.67
1:C:212:GLY:O	1:C:318:ASN:N	2.23	0.67
1:C:217:GLY:N	2:C:1001:AGS:O1A	2.27	0.67
1:E:203:ARG:N	1:F:397:ASP:OD2	2.26	0.67
1:E:794:ARG:NH1	1:E:796:GLU:C	2.39	0.67
1:F:192:GLU:O	1:F:196:THR:N	2.23	0.67
1:F:613:LEU:H	1:F:770:VAL:HB	1.58	0.67
1:A:197:ILE:HG23	1:A:235:PRO:HG3	1.76	0.67
1:A:842:LEU:HB3	1:A:846:LYS:HZ2	1.58	0.67
1:B:392:ALA:O	1:B:395:LEU:HB2	1.95	0.67
1:B:691:ALA:O	1:B:692:HIS:ND1	2.26	0.67
1:B:743:GLN:HE21	1:B:744:GLU:H	1.39	0.67
1:C:286:ILE:HA	1:C:289:LEU:HB2	1.77	0.67
1:C:387:ARG:HB2	1:C:390:ASP:OD2	1.94	0.67
1:C:607:PRO:HB2	1:C:722:ILE:HD12	1.74	0.67
1:D:262:GLU:HG2	1:D:263:GLU:OE2	1.93	0.67
1:D:612:PHE:CB	1:D:726:THR:HG21	2.24	0.67
1:E:265:PHE:O	1:E:269:LEU:N	2.27	0.67
1:E:358:LYS:HZ3	1:E:362:HIS:HE1	1.41	0.67
1:E:429:LYS:O	1:E:432:GLU:N	2.27	0.67
1:F:199:VAL:HG22	1:F:207:ASN:HA	1.75	0.67
1:B:214:PRO:HD2	1:B:387:ARG:HE	1.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:620:LYS:HG2	1:B:826:ARG:NH1	2.10	0.67
1:B:777:ARG:O	1:B:781:HIS:N	2.21	0.67
1:C:172:ILE:HD11	1:C:245:SER:H	1.57	0.67
1:C:191:GLU:N	1:C:192:GLU:OE1	2.27	0.67
1:C:328:ASP:HA	1:C:331:PHE:HD2	1.59	0.67
1:C:606:GLN:HG3	1:C:607:PRO:HD2	1.77	0.67
1:C:759:ARG:O	1:C:762:PHE:HB3	1.94	0.67
1:D:167:LEU:O	1:D:170:TYR:HB2	1.94	0.67
1:D:177:GLN:HA	1:D:180:GLN:HB2	1.76	0.67
1:D:388:LEU:O	1:D:392:ALA:N	2.19	0.67
1:E:194:ARG:HB3	1:E:198:ARG:NH1	2.09	0.67
1:A:174:MET:HA	1:A:177:GLN:NE2	2.10	0.67
1:A:611:LEU:O	1:A:769:ILE:HG23	1.94	0.67
1:A:669:GLY:O	1:A:672:THR:N	2.28	0.67
1:A:788:LEU:O	1:A:792:GLU:N	2.27	0.67
1:B:402:GLY:O	1:B:406:ALA:N	2.16	0.67
1:B:764:ASN:CB	1:B:765:ARG:HH12	2.06	0.67
1:D:260:ASP:O	1:D:263:GLU:N	2.28	0.67
1:E:349:VAL:HA	1:E:352:LEU:HD12	1.77	0.67
1:E:651:ALA:C	1:E:657:GLY:H	1.98	0.67
1:E:822:ASP:OD1	1:E:823:MET:N	2.28	0.67
1:F:331:PHE:HD1	1:F:334:ARG:HG3	1.60	0.67
1:A:625:LYS:HA	1:A:628:ALA:HB3	1.77	0.67
1:B:195:SER:HB2	1:B:198:ARG:NH1	2.09	0.67
1:B:350:ALA:O	1:B:354:GLY:N	2.25	0.67
1:B:615:LEU:H	1:B:772:PHE:HD2	1.41	0.67
1:C:272:ILE:HA	1:C:276:LYS:HE3	1.75	0.67
1:C:410:LYS:HD3	1:C:470:LYS:NZ	2.09	0.67
1:D:510:ILE:HB	1:D:511:PRO:HD3	1.77	0.67
1:D:530:ARG:CZ	1:D:537:ILE:HG23	2.24	0.67
1:D:570:ILE:HG12	1:D:595:ARG:NH1	2.10	0.67
1:D:617:GLY:O	1:D:621:THR:OG1	2.12	0.67
1:D:705:ASP:OD1	1:D:707:ARG:NH1	2.28	0.67
1:E:286:ILE:O	1:E:289:LEU:N	2.27	0.67
1:E:302:LYS:HZ1	1:E:334:ARG:HB2	1.59	0.67
1:E:347:GLN:H	1:E:347:GLN:CD	1.97	0.67
1:E:448:ALA:HA	1:E:451:LYS:HG2	1.77	0.67
1:E:476:LEU:HB3	1:E:521:GLU:OE2	1.94	0.67
1:E:777:ARG:HA	1:E:780:ILE:HG22	1.75	0.67
1:E:819:TYR:CE2	1:E:821:ASP:HA	2.30	0.67
1:F:187:ILE:C	2:F:1001:AGS:HN62	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:605:ARG:CD	1:F:707:ARG:H	2.07	0.67
1:B:198:ARG:HG3	1:B:199:VAL:N	2.10	0.67
1:B:808:GLN:NE2	1:B:811:LYS:HB3	2.09	0.67
1:C:217:GLY:HA3	2:C:1001:AGS:H1'	1.76	0.67
1:D:550:ALA:O	1:D:553:LEU:N	2.28	0.67
1:D:794:ARG:NH1	1:D:795:PHE:CE1	2.62	0.67
1:E:311:LYS:HZ2	1:E:313:ILE:CD1	2.08	0.67
1:E:431:LEU:HD13	1:E:444:ARG:HG3	1.76	0.67
1:E:777:ARG:HG3	1:E:778:LYS:H	1.58	0.67
1:F:176:GLU:HA	1:F:179:ARG:HB3	1.77	0.67
1:F:623:LEU:HA	1:F:626:LYS:HB2	1.76	0.67
1:B:285:GLU:C	1:B:289:LEU:HG	2.15	0.67
1:C:456:GLN:HA	1:C:459:LEU:HD12	1.77	0.67
1:C:579:GLU:OE1	1:C:579:GLU:N	2.28	0.67
1:C:808:GLN:HG3	1:C:812:ASP:OD2	1.95	0.67
1:D:202:ARG:NH1	1:D:205:LYS:HG2	2.09	0.67
1:D:514:LYS:HA	1:D:517:ILE:HD12	1.77	0.67
1:D:744:GLU:O	1:D:746:THR:OG1	2.13	0.67
1:D:812:ASP:HA	1:D:815:ALA:HB3	1.77	0.67
1:E:215:GLY:N	1:E:218:LYS:HZ1	1.92	0.67
1:F:172:ILE:CG1	1:F:245:SER:H	2.06	0.67
1:F:213:GLU:O	1:F:218:LYS:NZ	2.27	0.67
1:B:611:LEU:HG	1:B:769:ILE:HA	1.76	0.67
1:B:631:LEU:HD12	1:B:632:PHE:HB2	1.75	0.67
1:C:546:ILE:O	1:C:550:ALA:N	2.28	0.67
1:C:576:LEU:HD12	1:C:587:ILE:HG23	1.76	0.67
1:C:594:VAL:O	1:C:598:ARG:N	2.21	0.67
1:C:658:THR:O	1:C:712:GLN:NE2	2.27	0.67
1:C:815:ALA:HA	1:C:828:LEU:HD11	1.77	0.67
1:D:338:ILE:HG22	1:D:339:GLU:H	1.60	0.67
1:D:362:HIS:CD2	1:D:363:HIS:CG	2.83	0.67
1:D:585:ASP:OD1	1:D:585:ASP:N	2.23	0.67
1:E:175:THR:O	1:E:179:ARG:HB2	1.95	0.67
1:E:219:THR:OG1	2:E:1001:AGS:O2G	2.12	0.67
1:E:431:LEU:HB2	1:E:445:LEU:HD12	1.77	0.67
1:E:496:ARG:HH12	1:E:499:THR:HG21	1.60	0.67
1:A:285:GLU:O	1:A:288:MET:N	2.27	0.66
1:A:558:VAL:O	1:A:561:LEU:HB3	1.95	0.66
1:A:595:ARG:NH1	1:B:841:ALA:HB3	2.10	0.66
1:A:873:ALA:H	1:F:201:ALA:HB3	1.58	0.66
1:B:837:LEU:HA	1:B:840:LEU:HD12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:168:SER:CB	1:C:268:VAL:HG22	2.24	0.66
1:C:279:ILE:O	1:C:311:LYS:HD2	1.95	0.66
1:C:567:GLU:H	1:C:567:GLU:CD	1.96	0.66
1:D:198:ARG:NH1	1:E:404:ALA:N	2.42	0.66
1:D:322:ARG:O	1:D:325:VAL:N	2.28	0.66
1:D:329:GLY:HA2	1:D:332:GLU:HB3	1.76	0.66
1:D:708:ILE:HB	1:D:716:ILE:N	2.09	0.66
1:E:193:ILE:HG23	1:E:225:VAL:HG22	1.76	0.66
1:F:554:THR:HG22	1:F:559:LYS:HE2	1.75	0.66
1:F:803:LYS:HZ2	1:F:852:LYS:C	1.98	0.66
1:A:207:ASN:O	1:A:336:GLN:N	2.27	0.66
1:B:277:THR:HG22	1:B:278:LEU:H	1.60	0.66
1:B:640:ARG:HG3	1:B:684:LEU:HD13	1.76	0.66
1:C:374:THR:HG1	1:C:375:ALA:H	1.43	0.66
1:C:614:GLY:N	1:C:727:SER:O	2.27	0.66
1:C:803:LYS:HA	1:C:853:GLU:O	1.96	0.66
1:C:839:LYS:HZ1	1:C:879:VAL:C	1.97	0.66
1:D:206:SER:O	1:D:336:GLN:N	2.26	0.66
1:D:221:ILE:HG22	1:D:222:ILE:HD13	1.75	0.66
1:D:255:ALA:HB3	1:D:261:PHE:HD1	1.60	0.66
1:D:613:LEU:N	1:D:770:VAL:O	2.27	0.66
1:D:673:ASN:O	1:D:676:GLN:HB2	1.94	0.66
1:D:841:ALA:O	1:D:845:LEU:N	2.15	0.66
1:E:858:VAL:HB	1:E:877:LEU:HD12	1.77	0.66
1:F:215:GLY:HA2	2:F:1001:AGS:O1B	1.94	0.66
1:B:296:ASP:CG	1:B:300:ILE:HB	2.16	0.66
1:C:14:ILE:H	1:C:159:ASP:CA	2.08	0.66
1:C:351:ILE:HG12	2:C:1001:AGS:N6	2.09	0.66
1:C:671:LEU:O	1:C:674:GLN:HB3	1.94	0.66
1:D:203:ARG:HH12	1:E:363:HIS:CD2	2.12	0.66
1:D:242:LYS:HG2	1:D:278:LEU:O	1.96	0.66
1:D:378:LEU:O	1:D:381:ARG:HG2	1.95	0.66
1:D:786:ILE:O	1:D:789:LYS:HE3	1.96	0.66
1:D:815:ALA:O	1:D:818:GLY:N	2.29	0.66
1:E:247:ASP:O	1:E:250:ALA:HB3	1.94	0.66
1:E:301:LEU:HG	1:E:305:LEU:HG	1.76	0.66
1:E:504:ASP:OD1	1:E:505:LEU:N	2.27	0.66
1:E:829:ASN:HA	1:E:832:ILE:HD12	1.75	0.66
1:E:833:GLN:O	1:E:836:ILE:HG12	1.94	0.66
1:F:209:CYS:SG	1:F:210:LEU:N	2.67	0.66
1:A:324:ILE:O	1:A:328:ASP:N	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:SER:HB2	1:B:198:ARG:HH22	1.61	0.66
1:B:203:ARG:HB2	1:C:359:TYR:OH	1.95	0.66
1:B:353:ARG:HH22	1:B:372:LEU:HD12	1.60	0.66
1:B:700:LEU:O	1:B:703:LEU:N	2.28	0.66
1:B:783:ILE:O	1:B:787:ARG:HG2	1.95	0.66
1:C:203:ARG:HH11	1:D:363:HIS:HD2	1.43	0.66
1:C:551:ALA:O	1:C:554:THR:N	2.28	0.66
1:C:571:HIS:O	1:C:574:ARG:HG2	1.95	0.66
1:C:768:SER:OG	1:C:769:ILE:N	2.28	0.66
1:D:363:HIS:HB3	1:D:407:ARG:NH2	2.10	0.66
1:D:563:GLU:HG3	1:D:568:LYS:HZ1	1.59	0.66
1:D:623:LEU:O	1:D:627:VAL:N	2.24	0.66
1:E:332:GLU:OE1	1:E:337:LYS:NZ	2.28	0.66
1:E:698:VAL:C	1:E:702:MET:HG2	2.16	0.66
1:F:571:HIS:HA	1:F:574:ARG:HG2	1.76	0.66
1:F:609:SER:HB2	1:F:724:ILE:HG22	1.75	0.66
1:A:268:VAL:HA	1:A:271:GLU:HB3	1.78	0.66
1:A:654:LYS:HG2	1:A:656:LEU:H	1.60	0.66
1:A:876:CYS:SG	1:A:877:LEU:N	2.68	0.66
1:B:208:PRO:HD3	1:B:311:LYS:HE3	1.77	0.66
1:B:576:LEU:O	1:B:579:GLU:N	2.29	0.66
1:C:274:GLU:N	1:C:276:LYS:HZ1	1.92	0.66
1:C:276:LYS:HB3	1:C:279:ILE:HD12	1.78	0.66
1:C:567:GLU:OE1	1:C:567:GLU:N	2.16	0.66
1:C:648:GLU:N	1:C:648:GLU:OE1	2.28	0.66
1:C:857:VAL:HG13	1:C:879:VAL:N	2.11	0.66
1:D:218:LYS:NZ	2:D:1001:AGS:PB	2.60	0.66
1:D:429:LYS:HD3	1:D:445:LEU:HD21	1.78	0.66
1:E:460:GLU:HA	1:E:463:ARG:CZ	2.24	0.66
1:E:543:SER:HG	1:E:547:SER:HG	1.43	0.66
1:E:617:GLY:HA2	1:E:826:ARG:HE	1.61	0.66
1:E:710:SER:OG	1:E:715:THR:N	2.28	0.66
1:F:242:LYS:NZ	1:F:277:THR:HG21	2.11	0.66
1:F:299:ASN:HB3	1:F:302:LYS:CE	2.23	0.66
1:F:685:PHE:HB2	1:F:726:THR:OG1	1.96	0.66
1:F:687:GLU:O	1:F:727:SER:OG	2.12	0.66
1:B:167:LEU:HD13	1:B:271:GLU:HG2	1.78	0.66
1:B:172:ILE:HG23	1:B:246:LEU:HG	1.76	0.66
1:B:216:ILE:HA	1:B:219:THR:OG1	1.95	0.66
1:B:731:ALA:O	1:B:735:ASN:N	2.28	0.66
1:B:843:ARG:HD3	1:B:846:LYS:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:ASN:OD1	1:C:300:ILE:N	2.29	0.66
1:C:342:GLU:CD	1:C:388:LEU:H	1.98	0.66
1:D:273:GLU:CG	1:D:274:GLU:HG3	2.21	0.66
1:D:542:ASP:O	1:D:545:THR:OG1	2.12	0.66
1:E:189:ARG:HH22	1:E:341:ALA:N	1.94	0.66
1:E:571:HIS:CD2	1:E:574:ARG:HD3	2.31	0.66
1:F:363:HIS:HE2	1:F:397:ASP:HA	1.60	0.66
1:F:584:MET:HB3	1:F:588:LYS:HZ3	1.57	0.66
1:F:819:TYR:OH	1:F:826:ARG:O	2.06	0.66
1:A:255:ALA:HA	1:A:260:ASP:OD2	1.95	0.66
1:B:207:ASN:ND2	1:B:331:PHE:HZ	1.94	0.66
1:B:244:PHE:HD1	1:B:279:ILE:HG22	1.61	0.66
1:B:296:ASP:O	1:B:299:ASN:N	2.27	0.66
1:B:674:GLN:HG3	1:B:678:LYS:HE2	1.77	0.66
1:B:843:ARG:HH11	1:B:848:GLU:HG2	1.61	0.66
1:C:782:LYS:O	1:C:785:ASP:OD1	2.14	0.66
1:E:268:VAL:HA	1:E:271:GLU:HB2	1.77	0.66
1:E:748:ASN:CA	1:E:751:MET:HG2	2.21	0.66
1:F:363:HIS:NE2	1:F:396:VAL:C	2.48	0.66
1:F:704:ASP:HA	1:F:765:ARG:HD3	1.67	0.66
1:A:708:ILE:H	1:A:717:ASP:H	1.41	0.66
1:B:315:ALA:O	1:B:316:THR:OG1	2.14	0.66
1:C:47:SER:O	1:C:52:GLN:N	2.27	0.66
1:C:170:TYR:CE1	1:C:249:ALA:HB1	2.29	0.66
1:C:261:PHE:O	1:C:265:PHE:N	2.23	0.66
1:C:390:ASP:OD1	1:C:391:SER:N	2.29	0.66
1:C:786:ILE:N	1:C:789:LYS:NZ	2.43	0.66
1:D:201:ALA:HA	1:D:238:LEU:HD21	1.78	0.66
1:D:855:VAL:HG23	1:D:880:LEU:HD22	1.78	0.66
1:E:176:GLU:CD	1:E:176:GLU:H	1.98	0.66
1:E:746:THR:HA	1:E:749:LEU:HD12	1.78	0.66
1:F:610:PHE:HB2	1:F:724:ILE:HG21	1.77	0.66
1:F:614:GLY:O	1:F:728:ALA:HB3	1.95	0.66
1:A:565:GLU:H	1:A:568:LYS:HD2	1.60	0.66
1:B:654:LYS:HD3	1:B:692:HIS:CB	2.24	0.66
1:B:782:LYS:HD2	1:B:785:ASP:OD2	1.96	0.66
1:B:793:GLU:O	1:B:798:ASN:ND2	2.29	0.66
1:C:205:LYS:HG2	1:C:336:GLN:NE2	2.10	0.66
1:C:366:ARG:NH1	1:C:538:GLN:O	2.29	0.66
1:C:841:ALA:O	1:C:845:LEU:N	2.20	0.66
1:D:285:GLU:O	1:D:289:LEU:HG	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:LEU:O	1:D:358:LYS:N	2.22	0.66
1:D:358:LYS:O	1:D:361:ILE:HB	1.96	0.66
1:D:366:ARG:O	1:D:537:ILE:HB	1.96	0.66
1:D:510:ILE:HG23	1:D:514:LYS:HD2	1.77	0.66
2:D:1001:AGS:O3G	2:D:1001:AGS:O2A	2.14	0.66
1:E:202:ARG:NH1	1:E:205:LYS:HB2	2.10	0.66
1:E:569:LEU:HA	1:E:630:PHE:CZ	2.23	0.66
1:F:214:PRO:O	1:F:218:LYS:NZ	2.24	0.66
1:F:301:LEU:HG	1:F:303:PRO:HD2	1.77	0.66
1:F:564:SER:N	1:F:568:LYS:HD2	2.06	0.66
1:F:632:PHE:HZ	1:F:720:ASN:HB3	1.61	0.66
1:F:783:ILE:O	1:F:787:ARG:HG2	1.95	0.66
1:A:208:PRO:O	1:A:338:ILE:N	2.29	0.66
1:A:287:HIS:ND1	1:A:287:HIS:O	2.29	0.66
1:A:732:GLU:HA	1:A:735:ASN:HB2	1.78	0.66
1:B:296:ASP:C	1:B:299:ASN:HB3	2.15	0.66
1:B:685:PHE:CE2	1:B:687:GLU:HA	2.31	0.66
1:C:243:LEU:HD23	1:C:245:SER:HB2	1.78	0.66
1:C:360:GLU:O	1:C:363:HIS:N	2.29	0.66
1:C:577:SER:OG	1:C:578:SER:N	2.29	0.66
1:D:369:ASP:O	1:D:372:LEU:HB3	1.96	0.66
1:D:799:ASP:OD1	1:D:800:LYS:HG2	1.96	0.66
1:E:387:ARG:O	1:E:390:ASP:N	2.29	0.66
1:F:320:GLU:OE1	1:F:320:GLU:HA	1.95	0.66
1:F:609:SER:OG	1:F:723:VAL:O	2.13	0.66
1:F:639:ILE:HG22	1:F:640:ARG:H	1.61	0.66
1:F:699:MET:SD	1:F:708:ILE:HG21	2.35	0.66
1:A:612:PHE:CG	1:A:769:ILE:HG22	2.30	0.65
1:A:843:ARG:O	1:A:847:ASN:N	2.27	0.65
1:B:803:LYS:H	1:B:853:GLU:HG2	1.60	0.65
1:C:208:PRO:HD3	1:C:313:ILE:HG23	1.78	0.65
1:C:583:GLN:HG3	1:C:773:ASN:ND2	2.11	0.65
1:C:650:TYR:OH	1:C:656:LEU:HB3	1.95	0.65
1:C:778:LYS:O	1:C:782:LYS:HG2	1.96	0.65
1:D:187:ILE:O	2:D:1001:AGS:N6	2.19	0.65
1:D:210:LEU:HA	1:D:338:ILE:O	1.97	0.65
1:D:284:ASP:CG	1:D:285:GLU:HG2	2.16	0.65
1:D:605:ARG:NE	1:D:707:ARG:HH21	1.94	0.65
1:D:702:MET:HA	1:D:706:GLY:HA2	1.78	0.65
1:D:805:ASN:HA	1:D:855:VAL:O	1.95	0.65
1:E:803:LYS:HG3	1:E:804:LEU:N	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:820:SER:H	1:E:824:GLY:HA2	1.60	0.65
1:F:282:PHE:HD1	1:F:313:ILE:HB	1.62	0.65
1:A:172:ILE:C	1:A:245:SER:HB3	2.17	0.65
1:A:605:ARG:O	1:A:706:GLY:N	2.28	0.65
1:C:465:ARG:HH12	1:C:529:ARG:CD	2.07	0.65
1:D:146:GLU:O	1:D:164:LEU:N	2.29	0.65
1:D:175:THR:O	1:D:179:ARG:HG2	1.97	0.65
1:D:810:ALA:O	1:D:814:LEU:HG	1.96	0.65
1:E:707:ARG:HG2	1:E:718:CYS:SG	2.36	0.65
1:E:745:SER:O	1:E:749:LEU:HG	1.95	0.65
1:F:715:THR:C	1:F:717:ASP:N	2.49	0.65
1:A:218:LYS:HG3	1:A:219:THR:N	2.10	0.65
1:A:227:GLN:HG3	1:A:228:ARG:H	1.60	0.65
1:A:259:GLY:H	1:A:261:PHE:HB2	1.59	0.65
1:A:700:LEU:O	1:A:704:ASP:N	2.29	0.65
1:B:231:ASP:OD1	1:B:232:ASP:N	2.29	0.65
1:C:298:ALA:HB1	1:C:302:LYS:HB2	1.79	0.65
1:C:434:ASP:OD2	1:C:445:LEU:HD11	1.97	0.65
1:C:826:ARG:O	1:C:830:ARG:N	2.21	0.65
1:C:850:LYS:NZ	1:C:851:ASP:CG	2.50	0.65
1:D:566:ASN:O	1:D:570:ILE:N	2.27	0.65
1:D:842:LEU:O	1:D:845:LEU:HB3	1.96	0.65
1:F:283:ILE:N	1:F:313:ILE:O	2.28	0.65
1:F:603:ASN:HB3	1:F:605:ARG:N	2.12	0.65
1:A:247:ASP:OD1	1:A:284:ASP:N	2.20	0.65
1:A:569:LEU:HA	1:A:572:MET:HG2	1.77	0.65
1:B:210:LEU:HD11	1:B:337:LYS:NZ	2.12	0.65
1:B:220:ALA:O	1:B:223:GLU:HB2	1.97	0.65
1:B:619:GLY:O	1:B:623:LEU:N	2.26	0.65
1:B:684:LEU:HD23	1:B:685:PHE:H	1.62	0.65
1:B:751:MET:CB	1:B:755:ARG:HH12	2.08	0.65
1:B:784:VAL:O	1:B:787:ARG:N	2.29	0.65
1:C:95:VAL:O	1:C:99:ALA:N	2.30	0.65
1:C:802:TYR:N	1:C:853:GLU:OE2	2.29	0.65
1:D:397:ASP:O	1:D:400:CYS:N	2.29	0.65
1:D:809:GLU:CD	1:D:811:LYS:NZ	2.50	0.65
1:E:786:ILE:N	1:E:789:LYS:NZ	2.45	0.65
1:E:810:ALA:HA	1:E:857:VAL:HG21	1.78	0.65
1:E:828:LEU:O	1:E:832:ILE:N	2.27	0.65
1:F:708:ILE:CD1	1:F:718:CYS:HB2	2.27	0.65
1:F:855:VAL:HA	1:F:880:LEU:HD13	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:ARG:O	1:B:397:ASP:OD2	2.13	0.65
1:B:859:LEU:HB2	1:B:876:CYS:SG	2.36	0.65
1:C:180:GLN:OE1	1:C:180:GLN:N	2.23	0.65
1:C:348:THR:HG22	1:C:352:LEU:HD21	1.79	0.65
1:C:417:LYS:HE2	1:C:459:LEU:HB3	1.79	0.65
1:D:207:ASN:OD1	1:D:311:LYS:HB3	1.97	0.65
1:F:605:ARG:CG	1:F:706:GLY:HA3	2.24	0.65
1:A:402:GLY:O	1:A:406:ALA:N	2.30	0.65
1:B:251:LEU:H	1:B:264:ARG:HH12	1.42	0.65
1:C:165:GLU:OE1	1:C:165:GLU:N	2.20	0.65
1:C:219:THR:O	1:C:222:ILE:N	2.29	0.65
1:C:628:ALA:O	1:C:631:LEU:N	2.30	0.65
1:C:723:VAL:O	1:C:724:ILE:HG13	1.97	0.65
1:D:248:LEU:HD12	1:D:251:LEU:HD12	1.78	0.65
1:D:573:GLU:CD	1:D:573:GLU:H	2.00	0.65
1:E:710:SER:O	1:E:714:LYS:HA	1.96	0.65
1:F:557:PRO:O	1:F:560:LYS:N	2.29	0.65
1:A:373:VAL:HG12	1:A:377:GLN:HE22	1.62	0.65
1:A:596:LEU:O	1:A:601:LEU:HB2	1.97	0.65
1:A:635:GLU:O	1:A:638:MET:N	2.28	0.65
1:A:642:ASP:OD1	1:A:644:SER:N	2.27	0.65
1:A:734:ILE:HG13	1:A:738:GLN:H	1.62	0.65
1:B:548:GLU:N	1:B:560:LYS:NZ	2.42	0.65
1:C:850:LYS:NZ	1:C:851:ASP:OD2	2.29	0.65
1:D:203:ARG:HH11	1:E:362:HIS:HB3	1.62	0.65
1:D:205:LYS:HE3	1:D:335:PHE:N	2.11	0.65
1:D:579:GLU:HB2	1:D:626:LYS:NZ	2.12	0.65
1:D:605:ARG:CZ	1:D:707:ARG:HE	2.09	0.65
1:D:687:GLU:O	1:D:691:ALA:N	2.30	0.65
1:D:759:ARG:HB3	1:D:763:LEU:CD1	2.26	0.65
1:D:811:LYS:O	1:D:815:ALA:N	2.29	0.65
1:E:191:GLU:HA	1:E:194:ARG:HD3	1.78	0.65
1:E:647:SER:HA	1:E:692:HIS:HB2	1.78	0.65
1:B:842:LEU:CB	1:B:846:LYS:HZ3	2.10	0.65
1:C:167:LEU:C	1:C:167:LEU:HD12	2.17	0.65
1:C:177:GLN:O	1:C:182:LYS:HB2	1.96	0.65
1:C:224:GLY:O	1:C:227:GLN:HB3	1.95	0.65
1:C:671:LEU:O	1:C:675:LEU:HG	1.97	0.65
1:C:751:MET:SD	1:C:755:ARG:NH2	2.69	0.65
1:C:839:LYS:HE3	1:C:857:VAL:HG22	1.79	0.65
1:D:687:GLU:O	1:D:690:LYS:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:710:SER:OG	1:D:713:GLY:N	2.29	0.65
1:D:859:LEU:O	1:D:878:GLU:N	2.27	0.65
1:E:202:ARG:HH12	1:E:205:LYS:HB2	1.62	0.65
1:E:213:GLU:O	1:E:387:ARG:NH1	2.30	0.65
1:E:385:TYR:CD1	1:E:386:ARG:NH1	2.64	0.65
1:E:799:ASP:OD1	1:E:800:LYS:N	2.26	0.65
1:E:820:SER:H	1:E:824:GLY:CA	2.09	0.65
1:E:833:GLN:HA	1:E:836:ILE:HG23	1.77	0.65
1:F:294:LYS:HE2	1:F:325:VAL:CG1	2.25	0.65
1:F:331:PHE:CA	1:F:334:ARG:HG3	2.08	0.65
1:A:326:GLU:OE1	1:A:326:GLU:N	2.16	0.65
1:A:785:ASP:O	1:A:788:LEU:HG	1.97	0.65
1:B:376:ALA:O	1:B:380:LYS:N	2.15	0.65
1:B:587:ILE:O	1:B:591:SER:N	2.17	0.65
1:B:757:HIS:HB3	1:B:758:PHE:CE1	2.32	0.65
1:C:786:ILE:CA	1:C:789:LYS:HZ3	2.10	0.65
1:C:825:ALA:H	1:C:827:PRO:HG2	1.61	0.65
1:C:857:VAL:HG13	1:C:879:VAL:H	1.61	0.65
1:D:167:LEU:HA	1:D:170:TYR:CD2	2.31	0.65
1:D:485:GLU:HB3	1:D:489:LYS:HE3	1.79	0.65
1:D:556:ILE:HD13	1:D:633:ASN:ND2	2.12	0.65
1:E:575:ASP:OD1	1:E:575:ASP:N	2.28	0.65
1:E:668:GLY:O	1:E:672:THR:N	2.29	0.65
1:E:826:ARG:HE	2:E:1002:AGS:H1'	1.61	0.65
1:F:778:LYS:O	1:F:781:HIS:N	2.24	0.65
1:A:216:ILE:O	1:A:220:ALA:N	2.24	0.65
1:A:248:LEU:HD13	1:A:251:LEU:H	1.59	0.65
1:A:262:GLU:OE2	1:A:297:ALA:N	2.29	0.65
1:A:813:PHE:CD2	1:A:857:VAL:HG11	2.32	0.65
1:B:226:ALA:O	1:B:230:ILE:N	2.21	0.65
1:B:344:SER:C	1:B:347:GLN:HE22	2.01	0.65
1:B:559:LYS:NZ	1:B:630:PHE:C	2.50	0.65
1:C:298:ALA:HA	1:C:301:LEU:HG	1.79	0.65
1:C:356:GLN:HG2	1:C:357:PRO:HD3	1.78	0.65
1:C:368:LEU:HD13	1:C:540:VAL:H	1.61	0.65
1:D:369:ASP:HA	1:D:372:LEU:HB3	1.79	0.65
1:D:381:ARG:NH1	1:D:382:TYR:HE1	1.94	0.65
1:E:410:LYS:HB3	1:E:413:GLU:HB2	1.78	0.65
1:E:581:VAL:HG11	1:E:772:PHE:CE1	2.32	0.65
1:E:654:LYS:HZ3	1:E:698:VAL:CG2	2.10	0.65
1:E:711:GLY:O	1:E:713:GLY:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:218:LYS:O	1:F:221:ILE:HB	1.97	0.65
1:A:192:GLU:O	1:A:196:THR:N	2.28	0.64
1:A:596:LEU:HD21	1:B:838:ASN:HA	1.78	0.64
1:C:242:LYS:H	1:C:279:ILE:HA	1.62	0.64
1:D:203:ARG:NH1	1:E:362:HIS:C	2.51	0.64
1:D:420:GLN:O	1:D:424:ILE:N	2.27	0.64
1:E:512:ASP:OD1	1:E:516:GLN:N	2.30	0.64
1:E:618:SER:N	2:E:1002:AGS:O1B	2.27	0.64
1:E:858:VAL:O	1:E:877:LEU:N	2.30	0.64
1:F:176:GLU:OE1	1:F:176:GLU:N	2.28	0.64
1:F:250:ALA:HB1	1:F:264:ARG:HG2	1.78	0.64
1:A:229:ILE:CA	1:A:233:ASP:HB2	2.20	0.64
1:B:648:GLU:HB3	1:B:693:PRO:HD3	1.79	0.64
1:C:214:PRO:HA	1:C:218:LYS:HE3	1.80	0.64
1:C:228:ARG:HA	1:C:231:ASP:OD2	1.97	0.64
1:C:681:SER:OG	1:C:682:VAL:N	2.31	0.64
1:C:731:ALA:O	1:C:734:ILE:N	2.30	0.64
1:C:752:GLY:O	1:C:756:GLN:HG3	1.98	0.64
1:C:807:THR:HG23	1:C:856:ASN:HD21	1.63	0.64
1:D:372:LEU:HA	1:D:546:ILE:HD11	1.79	0.64
1:D:375:ALA:HB2	1:D:546:ILE:HD13	1.79	0.64
1:D:843:ARG:HA	1:D:846:LYS:NZ	2.11	0.64
1:E:321:TYR:O	1:E:325:VAL:N	2.20	0.64
1:E:812:ASP:HA	1:E:815:ALA:HB3	1.80	0.64
1:F:369:ASP:O	1:F:372:LEU:N	2.29	0.64
1:F:699:MET:CA	1:F:702:MET:HG2	2.27	0.64
1:F:708:ILE:H	1:F:715:THR:HG23	1.62	0.64
1:A:196:THR:HA	1:A:199:VAL:HB	1.79	0.64
1:A:377:GLN:O	1:A:380:LYS:HB3	1.96	0.64
1:B:170:TYR:CD1	1:B:250:ALA:HB1	2.30	0.64
1:B:744:GLU:HA	1:B:747:LYS:HE3	1.77	0.64
1:C:213:GLU:OE2	1:C:387:ARG:CZ	2.45	0.64
1:C:353:ARG:O	1:C:356:GLN:HG2	1.97	0.64
1:C:572:MET:O	1:C:576:LEU:HG	1.97	0.64
1:C:626:LYS:C	1:C:635:GLU:OE2	2.35	0.64
1:C:671:LEU:HD12	1:C:672:THR:N	2.13	0.64
1:D:218:LYS:NZ	2:D:1001:AGS:PA	2.71	0.64
1:D:363:HIS:CG	1:D:407:ARG:HH12	2.14	0.64
1:D:686:ASP:C	1:D:688:VAL:H	2.01	0.64
1:F:193:ILE:HG23	1:F:225:VAL:HG22	1.79	0.64
1:F:813:PHE:N	1:F:816:LYS:HZ3	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:PRO:HD2	1:A:313:ILE:HG12	1.79	0.64
1:B:369:ASP:OD1	1:B:370:SER:N	2.29	0.64
1:C:173:ASP:HA	1:C:244:PHE:CE1	2.33	0.64
1:C:606:GLN:OE1	1:C:706:GLY:N	2.30	0.64
1:C:686:ASP:HB3	1:C:690:LYS:NZ	2.07	0.64
1:D:332:GLU:HA	1:D:335:PHE:CE2	2.32	0.64
1:D:785:ASP:HA	1:D:788:LEU:HD12	1.80	0.64
1:E:228:ARG:HH22	1:E:233:ASP:N	1.95	0.64
1:E:298:ALA:O	1:E:302:LYS:N	2.31	0.64
1:E:571:HIS:CD2	1:E:574:ARG:HH11	2.15	0.64
1:E:596:LEU:O	1:E:599:SER:OG	2.16	0.64
1:E:623:LEU:HG	1:E:624:ALA:N	2.11	0.64
1:F:639:ILE:H	1:F:674:GLN:HE22	1.43	0.64
1:F:710:SER:OG	1:F:713:GLY:CA	2.46	0.64
1:F:742:ILE:HG22	1:F:747:LYS:HZ2	1.62	0.64
1:F:802:TYR:O	1:F:804:LEU:N	2.24	0.64
1:A:259:GLY:H	1:A:261:PHE:CB	2.09	0.64
1:A:803:LYS:HB2	1:A:852:LYS:HE3	1.80	0.64
1:B:590:VAL:HG13	1:B:610:PHE:CD2	2.33	0.64
1:B:742:ILE:HG22	1:B:743:GLN:H	1.61	0.64
1:B:808:GLN:HE22	1:B:811:LYS:HB3	1.62	0.64
1:C:459:LEU:HD23	1:C:462:LEU:HD12	1.78	0.64
1:C:563:GLU:OE2	1:C:565:GLU:OE2	2.16	0.64
1:C:688:VAL:HB	1:C:725:MET:HB3	1.79	0.64
1:D:654:LYS:HE2	1:D:656:LEU:HB2	1.80	0.64
1:D:673:ASN:HB2	1:D:677:TYR:CE2	2.32	0.64
1:D:685:PHE:H	1:D:725:MET:HG2	1.63	0.64
1:E:172:ILE:O	1:E:245:SER:N	2.30	0.64
1:E:607:PRO:CD	1:E:707:ARG:HH12	2.08	0.64
1:E:609:SER:O	1:E:767:SER:HB2	1.97	0.64
1:E:833:GLN:H	1:E:833:GLN:CD	1.98	0.64
1:F:283:ILE:HB	1:F:289:LEU:HD23	1.79	0.64
1:F:576:LEU:HD21	1:F:630:PHE:CD2	2.32	0.64
1:A:807:THR:O	1:A:811:LYS:N	2.28	0.64
1:B:142:GLN:O	1:B:146:GLU:N	2.30	0.64
1:C:262:GLU:HG2	1:C:263:GLU:N	2.13	0.64
1:C:366:ARG:HH11	1:C:473:HIS:CD2	2.16	0.64
1:C:788:LEU:O	1:C:791:ILE:N	2.31	0.64
1:C:829:ASN:HA	1:C:832:ILE:HB	1.79	0.64
1:D:258:LYS:HZ2	1:D:262:GLU:H	1.45	0.64
1:E:210:LEU:HD11	1:E:338:ILE:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:215:GLY:C	1:E:218:LYS:NZ	2.46	0.64
1:E:803:LYS:HG3	1:E:804:LEU:H	1.61	0.64
1:E:879:VAL:HG12	1:E:880:LEU:N	2.13	0.64
1:F:819:TYR:OH	1:F:828:LEU:N	2.31	0.64
1:A:326:GLU:H	1:A:326:GLU:CD	1.99	0.64
1:A:543:SER:O	1:A:547:SER:N	2.30	0.64
1:A:641:VAL:O	1:A:685:PHE:HA	1.98	0.64
1:B:251:LEU:HD12	1:B:252:THR:N	2.11	0.64
1:B:358:LYS:HG3	1:B:359:TYR:H	1.62	0.64
1:B:549:THR:HG22	1:B:552:ARG:HH11	1.63	0.64
1:B:621:THR:HG22	1:B:625:LYS:HG3	1.80	0.64
1:C:572:MET:O	1:C:576:LEU:N	2.30	0.64
1:C:605:ARG:NH2	1:C:705:ASP:H	1.95	0.64
1:C:619:GLY:HA2	1:C:826:ARG:NH2	2.13	0.64
1:D:349:VAL:HA	1:D:352:LEU:HD12	1.79	0.64
1:D:590:VAL:HG12	1:D:594:VAL:CG2	2.27	0.64
1:D:668:GLY:O	1:D:671:LEU:N	2.31	0.64
1:E:493:ALA:O	1:E:496:ARG:HB3	1.97	0.64
1:E:730:GLY:O	1:E:734:ILE:N	2.26	0.64
1:F:565:GLU:HG2	1:F:598:ARG:NH1	2.11	0.64
1:A:224:GLY:O	1:A:227:GLN:HG2	1.98	0.64
1:A:395:LEU:O	1:A:399:SER:N	2.30	0.64
1:A:839:LYS:HZ3	1:A:879:VAL:HA	1.61	0.64
1:B:202:ARG:CD	1:B:206:SER:HA	2.27	0.64
1:B:803:LYS:H	1:B:853:GLU:CG	2.10	0.64
1:C:609:SER:O	1:C:767:SER:OG	2.12	0.64
1:C:742:ILE:HG22	1:C:743:GLN:H	1.62	0.64
1:C:785:ASP:CG	1:C:789:LYS:NZ	2.51	0.64
1:D:124:SER:C	1:D:126:ILE:H	2.01	0.64
1:D:214:PRO:HD2	1:D:387:ARG:HH21	1.62	0.64
1:D:259:GLY:HA2	1:D:262:GLU:OE2	1.96	0.64
1:D:267:GLY:O	1:D:270:LYS:N	2.27	0.64
1:D:370:SER:O	1:D:373:VAL:HB	1.98	0.64
1:E:256:LYS:HB2	1:E:260:ASP:OD2	1.97	0.64
1:E:284:ASP:C	1:E:315:ALA:H	2.01	0.64
1:E:777:ARG:O	1:E:780:ILE:N	2.31	0.64
1:E:785:ASP:O	1:E:789:LYS:HG2	1.97	0.64
1:E:855:VAL:HA	1:E:880:LEU:HD23	1.80	0.64
1:F:286:ILE:HA	1:F:289:LEU:HD12	1.79	0.64
1:A:830:ARG:NH1	1:F:309:GLN:HG2	2.12	0.64
1:B:286:ILE:HG12	1:B:316:THR:OG1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:196:THR:O	1:C:200:LEU:N	2.29	0.64
1:C:591:SER:O	1:C:595:ARG:HG3	1.98	0.64
1:C:792:GLU:OE2	1:C:802:TYR:HB3	1.98	0.64
1:D:203:ARG:NH2	1:E:362:HIS:O	2.31	0.64
1:D:639:ILE:HG22	1:D:674:GLN:NE2	2.12	0.64
1:E:285:GLU:OE2	1:E:320:GLU:OE2	2.15	0.64
1:E:476:LEU:HD13	1:E:520:LEU:HD12	1.78	0.64
1:E:623:LEU:O	1:E:627:VAL:HG23	1.98	0.64
1:E:696:LEU:HA	1:E:699:MET:HG2	1.78	0.64
1:E:760:PRO:O	1:E:764:ASN:N	2.23	0.64
1:F:312:VAL:HG22	1:F:313:ILE:H	1.63	0.64
1:F:363:HIS:HE1	1:F:397:ASP:CG	2.01	0.64
1:F:626:LYS:O	1:F:630:PHE:N	2.21	0.64
1:F:837:LEU:HA	1:F:840:LEU:HB2	1.78	0.64
1:A:205:LYS:HE2	1:B:398:ILE:HG13	1.79	0.64
1:A:573:GLU:HG3	1:A:574:ARG:N	2.13	0.64
1:A:655:LEU:O	1:A:669:GLY:HA2	1.98	0.64
1:A:685:PHE:HE2	1:A:723:VAL:HG11	1.62	0.64
1:B:178:ALA:HB3	1:B:230:ILE:HG21	1.80	0.64
1:B:244:PHE:HE1	1:B:280:VAL:HA	1.61	0.64
1:B:798:ASN:O	1:B:801:HIS:N	2.19	0.64
1:C:174:MET:H	1:C:242:LYS:NZ	1.96	0.64
1:C:189:ARG:NH1	1:C:341:ALA:O	2.25	0.64
1:C:708:ILE:CG2	1:C:709:THR:H	2.07	0.64
1:D:248:LEU:HD12	1:D:251:LEU:HB2	1.78	0.64
1:D:417:LYS:HD2	1:D:420:GLN:HB2	1.79	0.64
1:D:520:LEU:HA	1:D:523:GLN:CD	2.18	0.64
1:D:622:GLU:HG3	1:D:826:ARG:HH12	1.63	0.64
1:D:743:GLN:O	1:D:747:LYS:NZ	2.28	0.64
1:E:244:PHE:O	1:E:281:LEU:HA	1.98	0.64
1:E:332:GLU:OE2	1:E:337:LYS:NZ	2.31	0.64
1:E:542:ASP:N	1:E:544:ASP:OD2	2.31	0.64
1:E:813:PHE:HA	1:E:816:LYS:HD2	1.80	0.64
1:F:287:HIS:NE2	1:F:322:ARG:HA	2.13	0.64
1:F:363:HIS:HE1	1:F:397:ASP:CB	2.11	0.64
1:F:752:GLY:HA2	1:F:755:ARG:HB2	1.80	0.64
1:A:796:GLU:OE2	1:A:799:ASP:N	2.31	0.63
1:B:751:MET:O	1:B:754:VAL:HB	1.98	0.63
1:B:758:PHE:HB3	1:B:763:LEU:HD21	1.80	0.63
1:B:835:GLU:O	1:B:839:LYS:HG3	1.98	0.63
1:C:209:CYS:HB2	1:C:336:GLN:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:215:GLY:O	2:C:1001:AGS:O1A	2.15	0.63
1:C:458:GLU:HA	1:C:461:PRO:HD2	1.78	0.63
1:C:564:SER:C	1:C:566:ASN:H	2.01	0.63
1:C:571:HIS:O	1:C:575:ASP:N	2.31	0.63
1:D:203:ARG:NH1	1:E:362:HIS:HB3	2.13	0.63
1:D:839:LYS:HG2	1:D:879:VAL:HA	1.80	0.63
1:E:296:ASP:CA	1:E:299:ASN:HB3	2.27	0.63
1:E:462:LEU:CD1	1:E:465:ARG:HH11	2.11	0.63
1:F:651:ALA:N	1:F:654:LYS:HZ1	1.96	0.63
1:F:792:GLU:HG2	1:F:797:GLN:HG2	1.80	0.63
1:B:371:ALA:HB2	1:B:542:ASP:HA	1.80	0.63
1:C:216:ILE:HG23	1:C:387:ARG:HD2	1.79	0.63
1:C:700:LEU:CA	1:C:703:LEU:HB2	2.20	0.63
1:D:258:LYS:HZ1	1:D:262:GLU:HB3	1.61	0.63
1:D:299:ASN:OD1	1:D:300:ILE:HG13	1.97	0.63
1:D:305:LEU:HA	1:D:307:ARG:HG2	1.80	0.63
1:D:732:GLU:HG3	1:D:733:PHE:CD1	2.34	0.63
1:D:804:LEU:HD12	1:D:855:VAL:N	2.09	0.63
1:D:819:TYR:HA	1:D:825:ALA:HB2	1.81	0.63
1:E:256:LYS:NZ	1:E:264:ARG:HD3	2.14	0.63
1:E:605:ARG:HB3	1:E:705:ASP:OD1	1.98	0.63
1:E:674:GLN:OE1	1:E:678:LYS:HG3	1.99	0.63
1:E:683:LEU:HD23	1:E:723:VAL:HB	1.79	0.63
1:F:197:ILE:HG12	1:F:228:ARG:HH11	1.62	0.63
1:F:198:ARG:O	1:F:202:ARG:HB2	1.97	0.63
1:F:356:GLN:NE2	1:F:367:ILE:HG21	2.03	0.63
1:A:572:MET:O	1:A:576:LEU:N	2.22	0.63
1:A:843:ARG:HD2	1:A:849:ILE:HG21	1.80	0.63
1:B:375:ALA:O	1:B:379:ALA:N	2.27	0.63
1:B:610:PHE:O	1:B:724:ILE:HG21	1.98	0.63
1:B:637:MET:O	1:B:674:GLN:NE2	2.32	0.63
1:C:296:ASP:OD2	1:C:300:ILE:HD12	1.99	0.63
1:C:365:VAL:HA	1:C:473:HIS:CE1	2.33	0.63
1:C:542:ASP:HA	1:C:545:THR:HB	1.80	0.63
1:D:258:LYS:HZ2	1:D:262:GLU:CB	2.11	0.63
1:D:320:GLU:O	1:D:324:ILE:HD12	1.99	0.63
1:D:564:SER:OG	1:D:566:ASN:OD1	2.11	0.63
1:D:565:GLU:OE1	1:D:565:GLU:N	2.20	0.63
1:D:733:PHE:HA	1:D:736:SER:HB3	1.80	0.63
1:D:839:LYS:NZ	1:D:879:VAL:N	2.45	0.63
1:E:476:LEU:HD11	1:E:517:ILE:HG12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:606:GLN:N	1:E:705:ASP:OD2	2.31	0.63
2:E:1002:AGS:PB	2:E:1002:AGS:H4'	2.38	0.63
1:F:279:ILE:O	1:F:310:LEU:HD21	1.98	0.63
1:B:800:LYS:N	1:B:800:LYS:HD2	2.12	0.63
1:C:222:ILE:C	1:C:225:VAL:HB	2.18	0.63
1:C:286:ILE:HG13	1:C:289:LEU:HB2	1.81	0.63
1:C:691:ALA:HB3	1:C:696:LEU:HD21	1.81	0.63
1:D:271:GLU:HG2	1:D:276:LYS:HZ1	1.63	0.63
1:D:363:HIS:CB	1:D:407:ARG:HH22	2.09	0.63
1:D:614:GLY:HA2	1:D:772:PHE:CG	2.33	0.63
1:D:671:LEU:O	1:D:675:LEU:HG	1.97	0.63
1:D:718:CYS:C	1:D:720:ASN:H	2.00	0.63
1:E:273:GLU:OE2	1:E:308:GLY:HA2	1.99	0.63
1:E:324:ILE:O	1:E:328:ASP:N	2.25	0.63
1:E:351:ILE:HD13	2:E:1001:AGS:H2	1.79	0.63
1:E:365:VAL:HG12	1:E:407:ARG:NH1	2.11	0.63
1:E:828:LEU:O	1:E:832:ILE:HG13	1.98	0.63
1:F:170:TYR:HD2	1:F:248:LEU:HB2	1.63	0.63
1:F:207:ASN:HB2	1:F:335:PHE:CD1	2.33	0.63
1:F:714:LYS:C	1:F:716:ILE:N	2.51	0.63
1:A:740:SER:HB3	1:A:774:LYS:NZ	2.13	0.63
1:B:226:ALA:HA	1:B:229:ILE:HD12	1.80	0.63
1:B:236:THR:OG1	1:B:237:ILE:N	2.30	0.63
1:B:649:LYS:HB3	1:B:692:HIS:CE1	2.34	0.63
1:C:345:VAL:HG11	1:C:377:GLN:HB3	1.79	0.63
1:C:427:GLU:HB3	1:C:452:GLU:OE2	1.99	0.63
1:C:544:ASP:OD1	1:C:544:ASP:N	2.24	0.63
1:C:683:LEU:H	1:C:723:VAL:HG22	1.63	0.63
1:D:365:VAL:HG22	1:D:538:GLN:HE22	1.62	0.63
1:D:558:VAL:HG22	1:D:561:LEU:HD22	1.79	0.63
1:F:605:ARG:HD2	1:F:707:ARG:H	1.63	0.63
1:F:842:LEU:O	1:F:845:LEU:N	2.22	0.63
1:A:211:ILE:HG12	1:A:317:THR:O	1.99	0.63
1:A:566:ASN:OD1	1:A:566:ASN:N	2.31	0.63
1:A:802:TYR:HE2	1:A:804:LEU:HB2	1.63	0.63
1:A:831:LEU:O	1:A:834:ASN:N	2.29	0.63
1:B:10:ARG:O	1:B:14:ILE:N	2.30	0.63
1:B:176:GLU:OE1	1:B:179:ARG:HB3	1.99	0.63
1:B:195:SER:HG	1:B:196:THR:H	1.47	0.63
1:B:196:THR:O	1:B:199:VAL:N	2.31	0.63
1:B:613:LEU:HB2	1:B:732:GLU:OE2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:LEU:HB2	1:B:690:LYS:H	1.63	0.63
1:B:829:ASN:CA	1:B:832:ILE:HB	2.17	0.63
1:C:203:ARG:NE	1:D:362:HIS:CD2	2.67	0.63
1:C:404:ALA:HA	1:C:408:ASP:H	1.63	0.63
1:C:599:SER:OG	1:C:602:ALA:N	2.31	0.63
1:C:613:LEU:HD21	1:C:772:PHE:CG	2.34	0.63
1:C:777:ARG:HB3	1:C:781:HIS:CE1	2.33	0.63
1:C:827:PRO:O	1:C:831:LEU:N	2.30	0.63
1:D:462:LEU:HA	1:D:465:ARG:HD2	1.81	0.63
1:D:546:ILE:O	1:D:549:THR:HB	1.98	0.63
1:D:611:LEU:CB	1:D:770:VAL:H	2.12	0.63
1:D:759:ARG:HE	1:D:763:LEU:HD21	1.63	0.63
1:E:274:GLU:O	1:E:276:LYS:N	2.32	0.63
1:E:483:LEU:HG	1:E:508:PHE:CZ	2.34	0.63
1:E:695:VAL:HG12	1:E:699:MET:SD	2.38	0.63
1:E:737:GLN:HB3	1:E:774:LYS:HD3	1.81	0.63
1:E:785:ASP:OD1	1:E:786:ILE:N	2.32	0.63
1:A:346:ARG:HA	1:A:349:VAL:HB	1.80	0.63
1:A:592:ASN:HA	1:A:595:ARG:HB3	1.79	0.63
1:B:378:LEU:HA	1:B:381:ARG:HG2	1.79	0.63
1:B:819:TYR:CZ	1:B:821:ASP:HA	2.33	0.63
1:B:830:ARG:NH1	1:B:834:ASN:OD1	2.31	0.63
1:C:428:ILE:HG23	1:C:449:ARG:HH12	1.62	0.63
1:D:190:GLU:OE2	1:D:191:GLU:HG2	1.99	0.63
1:D:352:LEU:HD13	1:D:373:VAL:HG13	1.81	0.63
1:D:714:LYS:HD2	1:D:715:THR:H	1.63	0.63
1:E:216:ILE:CG2	1:E:218:LYS:HZ2	2.09	0.63
1:E:528:GLU:OE1	1:E:528:GLU:N	2.31	0.63
1:E:572:MET:O	1:E:576:LEU:N	2.25	0.63
1:E:613:LEU:HG	1:E:728:ALA:HA	1.81	0.63
1:E:724:ILE:O	1:E:725:MET:HB3	1.99	0.63
1:A:817:TYR:HD1	1:A:874:GLU:HB3	1.63	0.63
1:B:323:SER:C	1:B:327:LYS:HZ3	2.01	0.63
1:B:785:ASP:C	1:B:789:LYS:HZ1	1.99	0.63
1:B:855:VAL:O	1:B:856:ASN:ND2	2.31	0.63
1:C:349:VAL:HB	1:C:353:ARG:NH1	2.13	0.63
1:C:837:LEU:HD12	1:C:838:ASN:N	2.14	0.63
1:D:202:ARG:NH1	1:D:205:LYS:C	2.52	0.63
1:D:321:TYR:O	1:D:325:VAL:HG23	1.98	0.63
1:D:743:GLN:C	1:D:747:LYS:HZ1	2.03	0.63
1:D:751:MET:O	1:D:755:ARG:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:843:ARG:O	1:D:846:LYS:N	2.32	0.63
1:E:784:VAL:HG11	1:E:815:ALA:HB2	1.80	0.63
1:E:845:LEU:HD12	1:E:846:LYS:N	2.13	0.63
1:F:715:THR:O	1:F:716:ILE:C	2.37	0.63
1:A:217:GLY:HA2	1:A:220:ALA:HB3	1.81	0.63
1:A:736:SER:O	1:A:738:GLN:HG2	1.99	0.63
1:B:251:LEU:HG	1:B:264:ARG:HG2	1.81	0.63
1:B:319:ASN:OD1	1:B:320:GLU:N	2.32	0.63
1:B:557:PRO:HB2	1:B:561:LEU:HD11	1.80	0.63
1:C:168:SER:N	1:C:271:GLU:OE2	2.31	0.63
1:C:585:ASP:HA	1:C:588:LYS:HG3	1.81	0.63
1:D:170:TYR:OH	1:D:271:GLU:OE1	2.11	0.63
1:D:530:ARG:NH2	1:D:536:MET:H	1.97	0.63
1:D:790:GLU:C	1:D:794:ARG:HH22	2.01	0.63
1:D:798:ASN:HA	1:D:801:HIS:CD2	2.34	0.63
1:D:803:LYS:HB3	1:D:806:LEU:HD11	1.81	0.63
1:F:360:GLU:OE1	1:F:367:ILE:CD1	2.47	0.63
1:A:549:THR:HA	1:A:552:ARG:HH11	1.63	0.62
1:A:612:PHE:CD2	1:A:769:ILE:HG22	2.34	0.62
1:B:228:ARG:HA	1:B:231:ASP:OD2	1.99	0.62
1:B:329:GLY:HA2	1:B:332:GLU:HB2	1.81	0.62
1:B:708:ILE:HG22	1:B:709:THR:H	1.61	0.62
1:B:710:SER:HB3	1:B:714:LYS:N	2.14	0.62
1:C:324:ILE:HG23	1:C:327:LYS:HB2	1.81	0.62
1:D:176:GLU:O	1:D:180:GLN:N	2.23	0.62
1:D:708:ILE:O	1:D:715:THR:HA	1.99	0.62
1:E:464:GLN:O	1:E:467:ASN:N	2.31	0.62
1:E:508:PHE:CE2	1:E:510:ILE:HD11	2.34	0.62
1:E:625:LYS:C	1:E:635:GLU:OE2	2.38	0.62
1:E:643:CYS:N	1:E:649:LYS:HZ3	1.96	0.62
1:E:694:ASP:O	1:E:698:VAL:HG22	1.99	0.62
1:E:794:ARG:NH1	1:E:794:ARG:O	2.32	0.62
1:F:344:SER:O	1:F:347:GLN:NE2	2.27	0.62
1:F:646:LEU:HB3	1:F:691:ALA:HA	1.81	0.62
1:F:710:SER:HG	1:F:713:GLY:HA2	1.62	0.62
1:F:781:HIS:NE2	1:F:782:LYS:NZ	2.46	0.62
1:A:766:ILE:O	1:B:830:ARG:NH2	2.32	0.62
1:A:830:ARG:NH2	1:F:275:SER:H	1.91	0.62
1:B:203:ARG:HH11	1:C:362:HIS:HB2	1.61	0.62
1:B:346:ARG:HG3	1:B:347:GLN:H	1.64	0.62
1:B:669:GLY:O	1:B:672:THR:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:689:GLU:OE1	1:B:689:GLU:N	2.31	0.62
1:B:784:VAL:HG21	1:B:811:LYS:HG3	1.80	0.62
1:C:168:SER:C	1:C:264:ARG:NE	2.53	0.62
1:C:265:PHE:O	1:C:269:LEU:HG	1.98	0.62
1:C:318:ASN:HA	1:C:321:TYR:HB3	1.81	0.62
1:D:316:THR:HA	1:D:321:TYR:CD1	2.34	0.62
1:D:762:PHE:CE1	1:D:766:ILE:HG21	2.33	0.62
1:E:302:LYS:HZ3	1:E:334:ARG:CD	2.07	0.62
1:E:302:LYS:CE	1:E:331:PHE:HA	2.29	0.62
1:E:318:ASN:HA	1:E:321:TYR:HE2	1.64	0.62
1:E:523:GLN:O	1:E:527:GLU:N	2.21	0.62
1:E:618:SER:HG	1:E:620:LYS:NZ	1.95	0.62
1:E:745:SER:HA	1:E:748:ASN:OD1	1.99	0.62
1:E:786:ILE:N	1:E:789:LYS:HZ1	1.97	0.62
1:F:702:MET:HB3	1:F:708:ILE:CB	2.28	0.62
1:A:177:GLN:CB	1:A:182:LYS:HZ1	2.09	0.62
1:A:228:ARG:HG2	1:A:233:ASP:OD2	2.00	0.62
1:A:290:MET:O	1:A:294:LYS:N	2.24	0.62
1:A:693:PRO:HA	1:A:696:LEU:HD21	1.81	0.62
1:A:696:LEU:CA	1:A:699:MET:HB3	2.27	0.62
1:B:320:GLU:N	1:B:320:GLU:OE1	2.32	0.62
1:C:199:VAL:O	1:C:202:ARG:N	2.30	0.62
1:C:216:ILE:N	1:C:218:LYS:NZ	2.43	0.62
1:C:554:THR:OG1	1:C:555:GLY:N	2.32	0.62
1:C:696:LEU:HA	1:C:699:MET:HG2	1.82	0.62
1:D:202:ARG:NH2	1:D:205:LYS:HB3	2.12	0.62
1:D:441:THR:HG22	1:D:442:LYS:H	1.64	0.62
1:D:813:PHE:CE2	1:D:817:TYR:HE2	2.17	0.62
1:E:209:CYS:SG	1:E:315:ALA:HA	2.39	0.62
1:E:256:LYS:HZ1	1:E:264:ARG:HD3	1.64	0.62
1:E:597:SER:O	1:E:599:SER:N	2.32	0.62
1:E:645:GLU:H	1:E:649:LYS:NZ	1.97	0.62
1:E:800:LYS:HB3	1:E:802:TYR:CE1	2.33	0.62
1:F:242:LYS:HG2	1:F:277:THR:OG1	1.99	0.62
1:F:350:ALA:HA	1:F:353:ARG:HG2	1.80	0.62
1:F:583:GLN:O	1:F:587:ILE:HD12	1.99	0.62
1:F:615:LEU:HD21	1:F:734:ILE:HD13	1.81	0.62
1:F:828:LEU:HA	1:F:831:LEU:HB2	1.81	0.62
1:A:204:ILE:HB	1:A:334:ARG:HE	1.63	0.62
1:A:218:LYS:NZ	1:A:387:ARG:HE	1.97	0.62
1:B:171:ALA:CA	1:B:246:LEU:HD21	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:GLU:O	1:B:178:ALA:N	2.32	0.62
1:B:348:THR:OG1	1:B:388:LEU:HD21	2.00	0.62
1:B:825:ALA:HA	1:B:828:LEU:HB2	1.82	0.62
1:C:169:LYS:N	1:C:264:ARG:NH2	2.45	0.62
1:C:208:PRO:HG3	1:C:313:ILE:HG23	1.81	0.62
1:C:241:ALA:HB1	1:C:280:VAL:HG23	1.81	0.62
1:C:390:ASP:HA	1:C:393:LEU:HD12	1.80	0.62
1:D:192:GLU:OE2	1:D:193:ILE:HG13	1.98	0.62
1:D:579:GLU:C	1:D:626:LYS:NZ	2.52	0.62
1:D:583:GLN:OE1	1:D:773:ASN:N	2.31	0.62
1:D:840:LEU:HD13	1:D:844:ILE:HD12	1.81	0.62
1:E:243:LEU:HA	1:E:280:VAL:H	1.64	0.62
1:E:298:ALA:HA	1:E:301:LEU:HB3	1.82	0.62
1:E:637:MET:SD	1:E:678:LYS:HE2	2.39	0.62
1:F:367:ILE:HD11	1:F:372:LEU:HD11	1.81	0.62
1:F:651:ALA:N	1:F:654:LYS:NZ	2.47	0.62
1:A:347:GLN:OE1	1:A:347:GLN:N	2.30	0.62
1:A:634:ASP:CG	1:A:637:MET:HB2	2.20	0.62
1:B:196:THR:HA	1:B:199:VAL:HG23	1.80	0.62
1:B:638:MET:SD	1:B:640:ARG:NH2	2.72	0.62
1:B:683:LEU:HB3	1:B:723:VAL:HB	1.82	0.62
1:C:190:GLU:O	1:C:193:ILE:HB	1.99	0.62
1:C:219:THR:OG1	2:C:1001:AGS:O3B	2.14	0.62
1:C:407:ARG:NH2	1:C:538:GLN:N	2.48	0.62
1:C:839:LYS:HA	1:C:842:LEU:HD13	1.81	0.62
1:D:48:VAL:O	1:D:50:TYR:N	2.33	0.62
1:D:265:PHE:CZ	1:D:269:LEU:HD11	2.34	0.62
1:D:282:PHE:HA	1:D:313:ILE:CG1	2.28	0.62
1:D:461:PRO:O	1:D:465:ARG:HG3	1.99	0.62
1:D:656:LEU:HD11	1:D:709:THR:HB	1.81	0.62
1:D:819:TYR:CE2	1:D:821:ASP:HA	2.35	0.62
1:E:209:CYS:H	1:E:337:LYS:HA	1.63	0.62
1:E:241:ALA:HB2	1:E:278:LEU:HB3	1.81	0.62
1:E:400:CYS:O	1:E:404:ALA:N	2.32	0.62
1:E:655:LEU:O	1:E:659:THR:OG1	2.17	0.62
1:E:841:ALA:HA	1:E:844:ILE:HD12	1.81	0.62
1:F:647:SER:HA	1:F:690:LYS:HG2	1.82	0.62
1:A:266:LYS:O	1:A:270:LYS:N	2.28	0.62
1:A:388:LEU:HB2	1:A:389:PRO:HD3	1.82	0.62
1:A:777:ARG:HH22	1:A:815:ALA:HB3	1.64	0.62
1:A:822:ASP:CG	1:F:307:ARG:HH12	2.03	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:822:ASP:N	1:A:822:ASP:OD1	2.31	0.62
1:C:344:SER:OG	1:C:346:ARG:HB3	1.99	0.62
1:D:177:GLN:HG3	1:D:182:LYS:HB2	1.82	0.62
1:D:246:LEU:CD1	1:D:249:ALA:HB3	2.30	0.62
1:D:272:ILE:HB	1:D:279:ILE:HG21	1.81	0.62
1:D:316:THR:CA	1:D:321:TYR:CD1	2.83	0.62
1:D:637:MET:HG3	1:D:681:SER:HB2	1.82	0.62
1:D:797:GLN:HG3	1:D:801:HIS:CE1	2.34	0.62
1:D:859:LEU:HB3	1:D:876:CYS:C	2.20	0.62
1:E:669:GLY:O	1:E:673:ASN:ND2	2.32	0.62
1:E:803:LYS:HG2	1:E:852:LYS:HB3	1.80	0.62
1:F:190:GLU:HB3	1:F:228:ARG:HH21	1.64	0.62
1:F:205:LYS:HD2	1:F:336:GLN:HG2	1.80	0.62
1:F:812:ASP:O	1:F:816:LYS:N	2.28	0.62
1:A:175:THR:OG1	1:A:243:LEU:O	2.18	0.62
1:A:317:THR:HG23	1:A:321:TYR:HB2	1.82	0.62
1:A:548:GLU:O	1:A:552:ARG:N	2.31	0.62
1:A:813:PHE:HB2	1:A:817:TYR:HE2	1.63	0.62
1:B:650:TYR:HD1	1:B:652:VAL:H	1.48	0.62
1:B:839:LYS:NZ	1:B:877:LEU:HD23	2.14	0.62
1:C:215:GLY:C	2:C:1001:AGS:O2B	2.38	0.62
1:C:367:ILE:HG22	1:C:368:LEU:O	2.00	0.62
1:C:591:SER:C	1:C:595:ARG:NH1	2.52	0.62
1:C:673:ASN:O	1:C:676:GLN:HB3	2.00	0.62
1:D:94:LYS:O	1:D:97:GLN:N	2.33	0.62
1:D:229:ILE:C	1:D:232:ASP:H	2.02	0.62
1:D:301:LEU:HD12	1:D:302:LYS:N	2.14	0.62
1:D:722:ILE:HG22	1:D:723:VAL:N	2.14	0.62
1:D:743:GLN:C	1:D:747:LYS:NZ	2.52	0.62
1:E:428:ILE:HA	1:E:449:ARG:HD3	1.82	0.62
1:E:827:PRO:O	1:E:831:LEU:HG	1.99	0.62
1:E:828:LEU:HG	1:E:832:ILE:HG13	1.80	0.62
1:F:703:LEU:HD12	1:F:703:LEU:N	2.12	0.62
1:F:732:GLU:O	1:F:735:ASN:HB3	1.99	0.62
1:F:805:ASN:HB2	1:F:854:THR:HB	1.80	0.62
1:A:274:GLU:OE2	1:A:275:SER:OG	2.16	0.62
1:A:599:SER:HB2	1:A:601:LEU:HG	1.82	0.62
1:A:812:ASP:OD2	1:A:816:LYS:HD3	2.00	0.62
1:B:113:GLN:N	1:B:159:ASP:O	2.17	0.62
1:B:268:VAL:HA	1:B:271:GLU:HB2	1.82	0.62
1:B:378:LEU:O	1:B:382:TYR:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:374:THR:O	1:C:377:GLN:N	2.33	0.62
1:C:609:SER:OG	1:C:767:SER:N	2.31	0.62
1:D:210:LEU:C	1:D:316:THR:HG22	2.20	0.62
1:D:507:TYR:CG	1:E:429:LYS:HB2	2.35	0.62
1:E:270:LYS:HD2	1:E:273:GLU:HB2	1.82	0.62
1:E:407:ARG:NH1	1:E:538:GLN:CD	2.52	0.62
1:E:573:GLU:OE2	1:E:595:ARG:CZ	2.48	0.62
1:E:629:GLY:HA2	1:E:633:ASN:C	2.20	0.62
1:E:681:SER:O	1:E:722:ILE:HB	1.99	0.62
1:F:551:ALA:HB2	1:F:557:PRO:HD3	1.81	0.62
1:B:229:ILE:O	1:B:232:ASP:N	2.30	0.62
1:B:671:LEU:HD12	1:B:672:THR:HG23	1.80	0.62
1:C:216:ILE:N	1:C:218:LYS:HZ2	1.85	0.62
1:C:242:LYS:NZ	1:C:244:PHE:CE1	2.57	0.62
1:C:306:SER:OG	1:C:334:ARG:NH2	2.32	0.62
1:C:372:LEU:N	1:C:542:ASP:OD2	2.32	0.62
1:C:744:GLU:O	1:C:748:ASN:ND2	2.33	0.62
1:D:345:VAL:HG12	1:D:346:ARG:HG3	1.82	0.62
1:E:483:LEU:HD12	1:E:513:ILE:HG22	1.82	0.62
1:E:564:SER:O	1:E:567:GLU:N	2.32	0.62
1:E:650:TYR:HB2	1:E:654:LYS:CG	2.23	0.62
1:F:331:PHE:HA	1:F:334:ARG:HD2	1.79	0.62
1:F:344:SER:OG	1:F:345:VAL:N	2.29	0.62
1:F:765:ARG:HG3	1:F:766:ILE:HG13	1.82	0.62
1:A:211:ILE:HA	1:A:316:THR:O	2.00	0.62
1:B:265:PHE:HE2	1:B:297:ALA:HA	1.64	0.62
1:B:646:LEU:HD22	1:B:687:GLU:O	2.00	0.62
1:B:675:LEU:HB3	1:B:717:ASP:OD2	2.00	0.62
1:C:192:GLU:H	1:C:192:GLU:CD	1.99	0.62
1:C:333:ARG:HG3	1:C:334:ARG:HG2	1.82	0.62
1:C:549:THR:O	1:C:553:LEU:HG	1.99	0.62
1:C:629:GLY:H	1:C:635:GLU:CD	2.02	0.62
1:C:712:GLN:HG3	1:C:714:LYS:HZ1	1.65	0.62
1:C:833:GLN:HG3	1:C:834:ASN:N	2.15	0.62
1:D:235:PRO:HG3	1:E:408:ASP:HA	1.82	0.62
1:D:508:PHE:HA	1:D:511:PRO:HD2	1.82	0.62
1:D:530:ARG:HH22	1:D:538:GLN:N	1.96	0.62
1:D:761:GLU:CD	1:D:764:ASN:HD22	2.03	0.62
1:F:175:THR:HG23	1:F:244:PHE:HE1	1.65	0.62
1:F:316:THR:CG2	1:F:322:ARG:HG2	2.27	0.62
1:F:786:ILE:O	1:F:790:GLU:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:814:LEU:HD13	1:F:832:ILE:HD13	1.81	0.62
1:A:218:LYS:O	1:A:222:ILE:HG12	1.98	0.61
1:A:382:TYR:CD2	1:A:383:LEU:HB2	2.36	0.61
1:A:582:GLY:O	1:A:587:ILE:HD12	2.01	0.61
1:B:567:GLU:HA	1:B:570:ILE:HD12	1.82	0.61
1:B:617:GLY:H	1:B:620:LYS:HD3	1.65	0.61
1:C:172:ILE:HG13	1:C:244:PHE:HB3	1.82	0.61
1:D:753:ALA:O	1:D:756:GLN:HG2	2.00	0.61
1:D:828:LEU:HA	1:D:831:LEU:HD12	1.82	0.61
1:E:169:LYS:NZ	1:E:268:VAL:N	2.48	0.61
1:E:322:ARG:HA	1:E:325:VAL:HG22	1.82	0.61
1:E:547:SER:HB3	1:E:561:LEU:HD13	1.81	0.61
1:E:647:SER:HB2	1:E:692:HIS:CD2	2.35	0.61
1:F:221:ILE:O	1:F:225:VAL:N	2.26	0.61
1:F:264:ARG:O	1:F:268:VAL:HG23	2.00	0.61
1:F:556:ILE:CG1	1:F:559:LYS:HZ3	2.10	0.61
1:F:616:SER:CB	1:F:620:LYS:HD3	2.20	0.61
1:F:683:LEU:HD22	1:F:685:PHE:CZ	2.35	0.61
1:B:175:THR:HG22	1:B:243:LEU:HG	1.81	0.61
1:C:168:SER:HB2	1:C:271:GLU:OE2	1.99	0.61
1:C:210:LEU:HB2	1:C:337:LYS:HA	1.82	0.61
1:C:841:ALA:O	1:C:845:LEU:HG	2.01	0.61
1:D:263:GLU:O	1:D:266:LYS:N	2.33	0.61
1:D:295:ASP:C	1:D:297:ALA:H	2.02	0.61
1:D:320:GLU:O	1:D:324:ILE:N	2.31	0.61
1:E:457:GLU:HA	1:E:460:GLU:HB3	1.82	0.61
1:E:619:GLY:HA2	2:E:1002:AGS:H5'2	1.81	0.61
1:E:638:MET:C	1:E:682:VAL:HG11	2.21	0.61
1:E:655:LEU:O	1:E:667:GLU:HB2	2.00	0.61
1:E:702:MET:HA	1:E:707:ARG:HD3	1.82	0.61
1:E:812:ASP:OD2	1:E:816:LYS:HE3	2.00	0.61
1:E:859:LEU:O	1:E:877:LEU:N	2.32	0.61
1:E:879:VAL:HG12	1:E:880:LEU:H	1.64	0.61
1:F:393:LEU:O	1:F:396:VAL:HB	2.00	0.61
1:F:707:ARG:CA	1:F:715:THR:HG21	2.30	0.61
1:A:332:GLU:OE2	1:A:334:ARG:HG2	2.00	0.61
1:B:210:LEU:HD21	1:B:337:LYS:NZ	2.12	0.61
1:B:759:ARG:O	1:B:763:LEU:HG	2.00	0.61
1:B:804:LEU:H	1:B:853:GLU:CG	2.13	0.61
1:C:789:LYS:O	1:C:792:GLU:HB3	2.00	0.61
1:D:186:VAL:HB	2:D:1001:AGS:C2	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:752:GLY:HA2	1:D:755:ARG:HH21	1.64	0.61
1:E:685:PHE:CB	1:E:725:MET:HB2	2.30	0.61
1:F:705:ASP:OD1	1:F:705:ASP:N	2.32	0.61
1:A:211:ILE:H	1:A:316:THR:N	1.97	0.61
1:A:244:PHE:HB3	1:A:281:LEU:CD2	2.29	0.61
1:A:777:ARG:NH2	1:A:815:ALA:HB3	2.16	0.61
1:B:370:SER:O	1:B:373:VAL:HB	2.01	0.61
1:C:473:HIS:CD2	1:C:538:GLN:HB3	2.35	0.61
1:C:708:ILE:O	1:C:716:ILE:N	2.30	0.61
1:D:352:LEU:HD23	1:D:355:LEU:HD21	1.81	0.61
1:D:395:LEU:O	1:D:399:SER:OG	2.18	0.61
1:D:402:GLY:O	1:D:405:VAL:HB	2.01	0.61
1:D:799:ASP:N	1:D:801:HIS:HD2	1.96	0.61
1:E:637:MET:HE2	1:E:682:VAL:HG12	1.81	0.61
1:E:797:GLN:OE1	1:E:797:GLN:N	2.33	0.61
1:F:166:TYR:HE2	1:F:264:ARG:HA	1.65	0.61
1:F:172:ILE:O	1:F:172:ILE:HG13	2.01	0.61
1:F:331:PHE:CA	1:F:334:ARG:CD	2.70	0.61
1:F:828:LEU:HD22	1:F:832:ILE:HD11	1.82	0.61
1:A:758:PHE:CZ	1:A:763:LEU:HB2	2.34	0.61
1:B:175:THR:OG1	1:B:176:GLU:N	2.33	0.61
1:B:318:ASN:N	1:B:318:ASN:OD1	2.32	0.61
1:B:396:VAL:O	1:B:400:CYS:N	2.26	0.61
1:C:169:LYS:H	1:C:264:ARG:NE	1.86	0.61
1:C:641:VAL:N	1:C:684:LEU:O	2.33	0.61
1:C:689:GLU:OE1	1:C:727:SER:OG	2.17	0.61
1:C:706:GLY:O	1:C:717:ASP:HB3	2.01	0.61
1:D:844:ILE:HA	1:D:847:ASN:OD1	2.01	0.61
1:E:671:LEU:C	1:E:675:LEU:HB2	2.21	0.61
1:E:673:ASN:N	1:E:673:ASN:OD1	2.33	0.61
1:E:704:ASP:C	1:E:707:ARG:NH1	2.54	0.61
1:E:859:LEU:HD23	1:E:876:CYS:HB3	1.82	0.61
1:F:640:ARG:HH21	1:F:641:VAL:H	1.48	0.61
1:F:702:MET:CB	1:F:708:ILE:CG1	2.76	0.61
1:A:274:GLU:CA	1:A:276:LYS:HZ2	2.14	0.61
1:A:872:GLU:OE2	1:F:200:LEU:HD12	2.01	0.61
1:B:180:GLN:HG3	1:B:182:LYS:NZ	2.15	0.61
1:B:203:ARG:HB2	1:C:359:TYR:HH	1.63	0.61
1:B:342:GLU:OE2	1:B:388:LEU:N	2.33	0.61
1:B:551:ALA:HA	1:B:554:THR:HG23	1.82	0.61
1:B:617:GLY:N	1:B:620:LYS:HZ2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:656:LEU:HD13	1:B:658:THR:HG23	1.82	0.61
1:C:483:LEU:HG	1:C:486:LEU:HD12	1.83	0.61
1:C:764:ASN:OD1	1:C:764:ASN:N	2.29	0.61
1:D:164:LEU:O	1:D:165:GLU:HG2	2.00	0.61
1:D:198:ARG:NH1	1:E:402:GLY:O	2.33	0.61
1:D:400:CYS:HA	1:D:403:VAL:HB	1.83	0.61
1:D:503:ALA:HB1	1:D:507:TYR:CE1	2.35	0.61
1:D:684:LEU:HA	1:D:725:MET:HG2	1.81	0.61
1:F:171:ALA:HA	1:F:246:LEU:HA	1.80	0.61
1:F:214:PRO:C	1:F:218:LYS:HZ1	2.04	0.61
1:F:640:ARG:HD2	1:F:684:LEU:CB	2.30	0.61
1:A:583:GLN:HE22	1:A:773:ASN:H	1.47	0.61
1:A:840:LEU:O	1:A:844:ILE:N	2.27	0.61
1:B:191:GLU:HG2	1:B:192:GLU:OE1	1.99	0.61
1:B:359:TYR:O	1:B:362:HIS:HB3	1.99	0.61
1:B:648:GLU:CB	1:B:693:PRO:HD3	2.30	0.61
1:B:783:ILE:O	1:B:786:ILE:HB	2.00	0.61
1:C:648:GLU:HA	1:C:692:HIS:NE2	2.16	0.61
1:D:429:LYS:HA	1:D:445:LEU:HD11	1.82	0.61
1:E:609:SER:HG	1:E:723:VAL:HG13	1.64	0.61
1:E:645:GLU:HB2	1:E:649:LYS:HE3	1.81	0.61
1:E:828:LEU:O	1:E:831:LEU:N	2.33	0.61
1:E:830:ARG:C	1:E:833:GLN:HE22	2.04	0.61
1:F:584:MET:O	1:F:588:LYS:N	2.21	0.61
1:A:213:GLU:CB	1:A:218:LYS:HZ3	2.14	0.61
1:A:379:ALA:HA	1:A:382:TYR:CZ	2.36	0.61
1:C:285:GLU:HA	1:C:287:HIS:CD2	2.36	0.61
1:C:320:GLU:O	1:C:323:SER:HB2	2.01	0.61
1:C:659:THR:HA	1:C:712:GLN:NE2	2.16	0.61
1:C:785:ASP:OD1	1:C:785:ASP:N	2.30	0.61
1:D:613:LEU:HB3	1:D:771:ILE:HG23	1.83	0.61
1:D:708:ILE:H	1:D:716:ILE:N	1.85	0.61
1:E:626:LYS:NZ	1:E:635:GLU:OE2	2.34	0.61
1:F:351:ILE:O	1:F:355:LEU:N	2.25	0.61
1:F:613:LEU:HD13	1:F:770:VAL:N	2.12	0.61
1:F:651:ALA:H	1:F:654:LYS:HZ1	1.47	0.61
1:F:810:ALA:HB2	1:F:858:VAL:HG21	1.81	0.61
1:A:262:GLU:O	1:A:266:LYS:N	2.34	0.61
1:A:813:PHE:CE2	1:A:814:LEU:HB2	2.35	0.61
1:B:346:ARG:O	1:B:350:ALA:N	2.25	0.61
1:B:405:VAL:HA	1:B:408:ASP:OD2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:610:PHE:HA	1:B:768:SER:HB3	1.81	0.61
1:C:173:ASP:OD2	1:C:176:GLU:C	2.39	0.61
1:C:301:LEU:HD12	1:C:302:LYS:H	1.65	0.61
1:C:328:ASP:HA	1:C:331:PHE:CD2	2.36	0.61
1:C:391:SER:HA	1:C:394:ASP:OD2	2.00	0.61
1:C:639:ILE:O	1:C:684:LEU:N	2.33	0.61
1:C:733:PHE:O	1:C:736:SER:OG	2.09	0.61
1:D:210:LEU:O	1:D:211:ILE:HG12	2.01	0.61
1:D:219:THR:O	1:D:222:ILE:N	2.34	0.61
1:D:557:PRO:HB2	1:D:558:VAL:HG23	1.81	0.61
1:E:611:LEU:H	1:E:769:ILE:HA	1.66	0.61
1:E:744:GLU:HA	1:E:747:LYS:HE3	1.82	0.61
1:F:170:TYR:CD2	1:F:248:LEU:HB2	2.36	0.61
1:F:175:THR:HG23	1:F:244:PHE:CE1	2.35	0.61
1:F:360:GLU:OE1	1:F:367:ILE:CB	2.48	0.61
1:F:687:GLU:HA	1:F:727:SER:CA	2.28	0.61
1:F:774:LYS:HG2	1:F:775:LEU:H	1.66	0.61
2:F:1002:AGS:O3A	2:F:1002:AGS:H4'	1.99	0.61
1:A:274:GLU:C	1:A:276:LYS:HZ2	2.03	0.61
1:A:571:HIS:HD2	1:A:574:ARG:HD2	1.65	0.61
1:B:170:TYR:CD1	1:B:251:LEU:HD23	2.36	0.61
1:B:198:ARG:O	1:B:200:LEU:N	2.34	0.61
1:B:745:SER:OG	1:B:746:THR:N	2.33	0.61
1:C:173:ASP:CG	1:C:176:GLU:HG3	2.21	0.61
1:C:839:LYS:HZ3	1:C:879:VAL:HG12	1.65	0.61
1:D:198:ARG:NH1	1:E:405:VAL:N	2.48	0.61
1:D:565:GLU:H	1:D:565:GLU:CD	2.03	0.61
1:D:686:ASP:OD1	1:D:687:GLU:N	2.33	0.61
1:E:270:LYS:HZ3	1:E:274:GLU:CA	2.05	0.61
1:E:374:THR:HA	1:E:377:GLN:CD	2.21	0.61
1:E:378:LEU:HG	1:E:381:ARG:HD2	1.81	0.61
1:E:445:LEU:HD23	1:E:449:ARG:HH21	1.64	0.61
1:E:643:CYS:N	1:E:686:ASP:OD2	2.34	0.61
1:F:270:LYS:HA	1:F:273:GLU:HB2	1.82	0.61
1:F:715:THR:O	1:F:717:ASP:CA	2.48	0.61
1:F:785:ASP:CB	1:F:789:LYS:HZ1	2.00	0.61
1:F:798:ASN:HA	1:F:801:HIS:NE2	2.15	0.61
1:B:294:LYS:O	1:B:299:ASN:ND2	2.34	0.60
1:B:587:ILE:H	1:B:587:ILE:HD12	1.64	0.60
1:C:12:LEU:O	1:C:16:THR:N	2.33	0.60
1:C:167:LEU:C	1:C:264:ARG:NH2	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:608:ALA:O	1:C:722:ILE:HD11	2.01	0.60
1:D:469:GLU:OE2	1:D:533:ALA:HB1	2.00	0.60
1:D:524:VAL:HG13	1:D:533:ALA:N	2.16	0.60
1:D:685:PHE:N	1:D:725:MET:HG2	2.15	0.60
1:D:744:GLU:HB2	1:D:746:THR:CG2	2.28	0.60
1:D:763:LEU:HA	1:D:766:ILE:HG12	1.83	0.60
1:E:302:LYS:O	1:E:305:LEU:HB2	2.01	0.60
1:F:714:LYS:O	1:F:714:LYS:HG3	2.02	0.60
1:F:760:PRO:O	1:F:764:ASN:N	2.34	0.60
1:F:788:LEU:HD12	1:F:791:ILE:HD12	1.83	0.60
1:F:813:PHE:N	1:F:816:LYS:NZ	2.49	0.60
1:A:382:TYR:CD2	1:A:383:LEU:N	2.69	0.60
1:A:612:PHE:HB2	1:A:771:ILE:HA	1.84	0.60
1:A:673:ASN:ND2	1:A:676:GLN:OE1	2.33	0.60
1:A:760:PRO:O	1:A:763:LEU:HB3	2.00	0.60
1:A:791:ILE:HA	1:A:794:ARG:NH1	2.16	0.60
1:B:367:ILE:O	1:B:368:LEU:HD12	2.01	0.60
1:B:565:GLU:N	1:B:568:LYS:NZ	2.47	0.60
1:B:617:GLY:CA	1:B:620:LYS:HZ2	2.13	0.60
1:B:770:VAL:C	1:B:771:ILE:HG13	2.21	0.60
1:C:375:ALA:HA	1:C:378:LEU:HD12	1.82	0.60
1:C:686:ASP:O	1:C:689:GLU:N	2.34	0.60
1:C:829:ASN:O	1:C:832:ILE:N	2.33	0.60
1:D:227:GLN:O	1:D:231:ASP:N	2.30	0.60
1:D:355:LEU:HD12	1:D:356:GLN:N	2.16	0.60
1:D:453:ALA:O	1:D:457:GLU:HG2	2.01	0.60
1:D:637:MET:O	1:D:639:ILE:HG23	2.01	0.60
1:E:197:ILE:HA	1:E:200:LEU:HD12	1.83	0.60
1:E:202:ARG:NH1	1:E:205:LYS:N	2.49	0.60
1:E:510:ILE:HD13	1:E:514:LYS:NZ	2.15	0.60
1:E:581:VAL:HG11	1:E:772:PHE:HE1	1.65	0.60
1:E:620:LYS:HG2	2:E:1002:AGS:O1A	2.01	0.60
1:E:689:GLU:HG3	1:E:758:PHE:CZ	2.35	0.60
1:E:807:THR:C	1:E:811:LYS:NZ	2.55	0.60
1:F:807:THR:HG23	1:F:810:ALA:HB3	1.83	0.60
1:A:274:GLU:N	1:A:276:LYS:NZ	2.50	0.60
1:B:362:HIS:HD2	1:B:363:HIS:CD2	2.19	0.60
1:C:570:ILE:HD11	1:D:845:LEU:HD13	1.82	0.60
1:C:683:LEU:N	1:C:723:VAL:HG22	2.16	0.60
1:D:168:SER:OG	1:D:169:LYS:N	2.31	0.60
1:D:205:LYS:HD2	1:D:333:ARG:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:613:LEU:HD21	1:D:734:ILE:HD11	1.82	0.60
1:E:345:VAL:HA	1:E:388:LEU:HD21	1.83	0.60
1:E:483:LEU:HG	1:E:508:PHE:HZ	1.66	0.60
1:E:606:GLN:HG3	1:F:794:ARG:NH2	2.17	0.60
1:E:611:LEU:HB2	1:E:725:MET:HG2	1.83	0.60
1:E:683:LEU:HB3	1:E:723:VAL:HB	1.82	0.60
1:F:605:ARG:HG2	1:F:707:ARG:H	1.65	0.60
1:F:730:GLY:O	1:F:734:ILE:N	2.27	0.60
1:F:802:TYR:O	1:F:803:LYS:HG2	2.01	0.60
1:B:210:LEU:HD11	1:B:337:LYS:HZ3	1.66	0.60
1:B:366:ARG:HE	1:B:538:GLN:N	1.98	0.60
1:B:548:GLU:H	1:B:560:LYS:HZ2	1.46	0.60
1:C:170:TYR:CE2	1:C:249:ALA:C	2.70	0.60
1:C:362:HIS:HD2	1:C:363:HIS:CE1	2.19	0.60
1:C:407:ARG:CZ	1:C:539:ASN:H	2.15	0.60
1:C:786:ILE:CG1	1:C:789:LYS:HZ3	2.15	0.60
1:C:787:ARG:NH1	1:C:826:ARG:NH2	2.44	0.60
1:C:837:LEU:HD12	1:C:838:ASN:H	1.66	0.60
1:C:841:ALA:HA	1:C:844:ILE:HD13	1.83	0.60
1:D:468:GLU:O	1:D:471:HIS:HB3	2.02	0.60
1:D:542:ASP:OD1	1:D:543:SER:N	2.29	0.60
1:D:549:THR:O	1:D:553:LEU:N	2.34	0.60
1:D:642:ASP:HA	1:D:685:PHE:CZ	2.36	0.60
1:E:228:ARG:HH11	1:E:231:ASP:HB2	1.67	0.60
1:E:230:ILE:HG22	1:E:495:ARG:NH2	2.13	0.60
1:E:304:ALA:CA	1:E:307:ARG:HH11	2.14	0.60
1:E:367:ILE:HA	1:E:540:VAL:HG23	1.84	0.60
1:E:654:LYS:HZ2	1:E:698:VAL:HG13	1.66	0.60
1:E:763:LEU:O	1:E:766:ILE:HB	2.00	0.60
1:F:190:GLU:HA	1:F:193:ILE:HD12	1.83	0.60
1:F:646:LEU:CB	1:F:691:ALA:HA	2.32	0.60
1:F:819:TYR:HE1	1:F:828:LEU:H	1.49	0.60
1:A:287:HIS:HB2	1:A:321:TYR:CE2	2.35	0.60
1:A:374:THR:O	1:A:378:LEU:HG	2.01	0.60
1:A:696:LEU:HD12	1:A:697:THR:N	2.16	0.60
1:A:800:LYS:HE2	1:A:850:LYS:HB3	1.82	0.60
1:B:195:SER:HB2	1:B:198:ARG:NH2	2.16	0.60
1:B:541:VAL:H	1:B:546:ILE:HD11	1.67	0.60
1:B:782:LYS:O	1:B:785:ASP:N	2.35	0.60
1:C:348:THR:O	1:C:352:LEU:HG	2.01	0.60
1:C:465:ARG:NH2	1:C:466:TYR:OH	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:606:GLN:HE22	1:C:704:ASP:HA	1.66	0.60
1:C:622:GLU:CG	1:C:826:ARG:HH22	2.15	0.60
1:D:206:SER:OG	1:D:207:ASN:N	2.34	0.60
1:D:735:ASN:O	1:D:737:GLN:N	2.35	0.60
1:D:745:SER:HB2	1:D:748:ASN:OD1	2.01	0.60
1:D:776:SER:HB3	1:D:779:ALA:HB3	1.83	0.60
1:E:366:ARG:HG2	1:E:367:ILE:H	1.63	0.60
1:F:194:ARG:CA	1:F:228:ARG:HH12	2.14	0.60
1:F:216:ILE:CG1	1:F:218:LYS:HG3	2.31	0.60
1:F:240:GLY:O	1:F:279:ILE:N	2.35	0.60
1:F:556:ILE:N	1:F:559:LYS:NZ	2.48	0.60
1:F:610:PHE:HA	1:F:768:SER:CB	2.28	0.60
1:A:207:ASN:HB2	1:A:335:PHE:CD1	2.37	0.60
1:A:268:VAL:O	1:A:272:ILE:HG13	2.01	0.60
1:A:858:VAL:N	1:A:877:LEU:HB3	2.14	0.60
1:B:244:PHE:CE1	1:B:280:VAL:HA	2.36	0.60
1:B:366:ARG:O	1:B:367:ILE:HG13	2.02	0.60
1:B:377:GLN:HA	1:B:380:LYS:HB3	1.84	0.60
1:B:606:GLN:HB2	1:B:607:PRO:HD2	1.84	0.60
1:B:607:PRO:CB	1:B:722:ILE:HG12	2.31	0.60
1:C:583:GLN:CD	1:C:583:GLN:H	2.05	0.60
1:C:650:TYR:CZ	1:C:656:LEU:HB3	2.37	0.60
1:D:199:VAL:O	1:D:202:ARG:HG2	2.02	0.60
1:D:630:PHE:CE2	1:D:631:LEU:HD23	2.36	0.60
1:D:708:ILE:HD12	1:D:716:ILE:HB	1.83	0.60
1:E:217:GLY:HA2	2:E:1001:AGS:C4'	2.31	0.60
1:E:302:LYS:HG2	1:E:334:ARG:HH11	1.66	0.60
1:E:588:LYS:HG3	1:E:592:ASN:HD21	1.67	0.60
1:E:590:VAL:O	1:E:594:VAL:N	2.23	0.60
1:E:638:MET:CA	1:E:682:VAL:HG11	2.31	0.60
1:E:845:LEU:HD12	1:E:846:LYS:H	1.67	0.60
1:F:618:SER:HA	2:F:1002:AGS:C2	2.31	0.60
1:F:787:ARG:HA	1:F:790:GLU:CD	2.22	0.60
1:F:855:VAL:HG13	1:F:880:LEU:HB2	1.84	0.60
2:F:1001:AGS:HO3'	2:F:1001:AGS:PB	2.25	0.60
1:A:620:LYS:HA	1:A:772:PHE:CE2	2.37	0.60
1:A:820:SER:OG	1:F:307:ARG:NH2	2.34	0.60
1:B:195:SER:CB	1:B:198:ARG:HH12	2.15	0.60
1:B:739:GLY:O	1:B:742:ILE:N	2.29	0.60
1:B:744:GLU:CA	1:B:747:LYS:HE3	2.32	0.60
1:C:208:PRO:HB2	1:C:338:ILE:HG12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:285:GLU:O	1:C:288:MET:N	2.34	0.60
1:C:296:ASP:OD2	1:C:300:ILE:HB	2.01	0.60
1:C:713:GLY:C	1:C:714:LYS:HZ3	2.05	0.60
1:C:761:GLU:HA	1:C:764:ASN:ND2	2.17	0.60
1:C:783:ILE:HA	1:C:786:ILE:HB	1.84	0.60
1:C:857:VAL:HG13	1:C:879:VAL:CA	2.31	0.60
1:D:344:SER:O	1:D:347:GLN:HB2	2.02	0.60
1:E:214:PRO:C	1:E:387:ARG:HH11	2.00	0.60
1:E:216:ILE:HD11	1:E:390:ASP:H	1.65	0.60
1:E:282:PHE:O	1:E:283:ILE:HG13	2.01	0.60
1:E:342:GLU:OE2	1:E:388:LEU:HB2	2.00	0.60
1:E:705:ASP:H	1:E:765:ARG:NH1	1.98	0.60
1:E:800:LYS:HB3	1:E:802:TYR:CZ	2.36	0.60
1:F:167:LEU:N	1:F:169:LYS:HZ3	1.92	0.60
1:F:261:PHE:CE2	1:F:262:GLU:HB2	2.37	0.60
1:A:746:THR:O	1:A:750:VAL:N	2.17	0.60
1:B:646:LEU:HD11	1:B:690:LYS:HZ3	1.67	0.60
1:B:748:ASN:HA	1:B:751:MET:SD	2.42	0.60
1:B:759:ARG:O	1:B:762:PHE:HB3	2.02	0.60
1:B:806:LEU:HD22	1:B:811:LYS:N	2.16	0.60
1:C:264:ARG:HG2	1:C:268:VAL:HG23	1.82	0.60
1:C:350:ALA:N	1:C:353:ARG:HH11	2.00	0.60
1:C:619:GLY:HA2	1:C:622:GLU:HG2	1.84	0.60
1:C:805:ASN:HB2	1:C:854:THR:HG22	1.83	0.60
1:D:229:ILE:HG13	1:D:233:ASP:OD2	2.01	0.60
1:D:367:ILE:HG22	1:D:369:ASP:H	1.67	0.60
1:E:193:ILE:HA	1:E:196:THR:HB	1.84	0.60
1:E:434:ASP:OD1	1:E:435:GLU:N	2.34	0.60
1:E:584:MET:O	1:E:587:ILE:HB	2.00	0.60
1:E:803:LYS:HZ1	1:E:854:THR:HG23	1.67	0.60
1:B:333:ARG:NH2	1:B:334:ARG:HE	2.00	0.60
1:B:385:TYR:OH	1:B:386:ARG:NH1	2.34	0.60
1:B:848:GLU:OE2	1:B:881:PRO:HA	2.00	0.60
1:C:168:SER:OG	1:C:268:VAL:CG2	2.50	0.60
1:C:375:ALA:O	1:C:379:ALA:N	2.23	0.60
1:C:592:ASN:O	1:C:596:LEU:N	2.24	0.60
1:C:686:ASP:C	1:C:688:VAL:N	2.53	0.60
1:C:751:MET:O	1:C:754:VAL:HB	2.01	0.60
1:C:784:VAL:HG23	1:C:785:ASP:N	2.14	0.60
1:D:213:GLU:OE2	1:D:388:LEU:HG	2.02	0.60
1:D:242:LYS:HG2	1:D:278:LEU:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:380:LYS:HZ1	1:D:381:ARG:HB3	1.66	0.60
1:D:848:GLU:OE1	1:D:882:ASN:ND2	2.31	0.60
1:E:207:ASN:OD1	1:E:311:LYS:HG3	2.00	0.60
1:E:583:GLN:O	1:E:587:ILE:N	2.30	0.60
1:E:637:MET:HA	1:E:678:LYS:HZ1	1.64	0.60
1:E:804:LEU:HA	1:E:854:THR:HA	1.84	0.60
1:F:683:LEU:N	1:F:723:VAL:HG11	2.16	0.60
1:A:205:LYS:NZ	1:B:394:ASP:HA	2.17	0.60
1:A:404:ALA:HA	1:A:408:ASP:OD2	2.01	0.60
1:A:692:HIS:O	1:A:694:ASP:N	2.35	0.60
1:B:211:ILE:HG12	1:B:318:ASN:HA	1.84	0.60
1:B:541:VAL:HG11	1:B:545:THR:OG1	2.01	0.60
1:B:605:ARG:HG3	1:B:606:GLN:H	1.65	0.60
1:C:302:LYS:HD2	1:C:306:SER:N	2.16	0.60
1:C:596:LEU:O	1:C:599:SER:N	2.35	0.60
1:C:630:PHE:C	1:C:633:ASN:HD21	2.05	0.60
1:C:788:LEU:HG	1:C:789:LYS:N	2.16	0.60
1:D:570:ILE:HG12	1:D:595:ARG:HH12	1.65	0.60
1:E:202:ARG:N	1:E:206:SER:OG	2.35	0.60
1:E:378:LEU:HA	1:E:381:ARG:CB	2.27	0.60
1:E:459:LEU:HG	1:E:463:ARG:HB3	1.84	0.60
1:E:646:LEU:HB2	1:E:649:LYS:CB	2.32	0.60
1:E:708:ILE:HA	1:E:716:ILE:O	2.02	0.60
1:E:839:LYS:HE3	1:E:880:LEU:HD12	1.84	0.60
1:F:240:GLY:O	1:F:279:ILE:HG12	2.02	0.60
1:F:778:LYS:C	1:F:781:HIS:HD2	2.05	0.60
1:B:189:ARG:O	1:B:192:GLU:HB2	2.02	0.59
1:B:596:LEU:O	1:B:602:ALA:HB2	2.02	0.59
1:B:752:GLY:O	1:B:756:GLN:N	2.33	0.59
1:C:362:HIS:CD2	1:C:363:HIS:CE1	2.90	0.59
1:C:397:ASP:HA	1:C:400:CYS:HB2	1.84	0.59
1:D:281:LEU:HG	1:D:311:LYS:O	2.02	0.59
1:D:282:PHE:CD1	1:D:313:ILE:HD11	2.35	0.59
1:D:563:GLU:HA	1:D:568:LYS:HZ3	1.65	0.59
1:D:752:GLY:HA2	1:D:755:ARG:NH2	2.17	0.59
1:D:825:ALA:H	1:D:827:PRO:HD2	1.67	0.59
1:E:174:MET:O	1:E:177:GLN:N	2.35	0.59
1:E:582:GLY:O	1:E:584:MET:N	2.35	0.59
1:E:585:ASP:O	1:E:589:ALA:N	2.27	0.59
1:E:645:GLU:HB2	1:E:649:LYS:CE	2.31	0.59
1:F:603:ASN:HB3	1:F:605:ARG:H	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:THR:CG2	1:A:322:ARG:HH11	2.06	0.59
1:A:583:GLN:NE2	1:A:771:ILE:O	2.35	0.59
1:B:38:ALA:O	1:B:71:ARG:N	2.35	0.59
1:B:208:PRO:HD2	1:B:313:ILE:CA	2.26	0.59
1:B:644:SER:O	1:B:690:LYS:HE2	2.02	0.59
1:B:696:LEU:HA	1:B:699:MET:SD	2.42	0.59
1:C:211:ILE:HG21	1:C:316:THR:N	2.17	0.59
1:C:365:VAL:HG12	1:C:366:ARG:N	2.16	0.59
1:C:526:GLU:HA	1:C:532:GLY:HA2	1.84	0.59
1:C:616:SER:HA	1:C:620:LYS:CD	2.30	0.59
1:C:650:TYR:HE2	1:C:657:GLY:H	1.49	0.59
1:C:767:SER:HA	1:D:830:ARG:HH11	1.66	0.59
1:C:784:VAL:CG2	1:C:811:LYS:HZ2	2.15	0.59
1:C:842:LEU:O	1:C:845:LEU:HB2	2.01	0.59
1:D:684:LEU:HA	1:D:725:MET:HA	1.84	0.59
1:E:217:GLY:HA2	2:E:1001:AGS:H4'	1.83	0.59
1:F:287:HIS:NE2	1:F:322:ARG:CG	2.65	0.59
2:F:1001:AGS:O2B	2:F:1001:AGS:O3'	2.14	0.59
1:A:170:TYR:HD1	1:A:264:ARG:HE	1.50	0.59
1:A:173:ASP:OD2	1:A:175:THR:OG1	2.19	0.59
1:A:272:ILE:C	1:A:276:LYS:NZ	2.55	0.59
1:A:643:CYS:SG	1:A:685:PHE:HB3	2.43	0.59
1:A:780:ILE:O	1:A:784:VAL:HG12	2.02	0.59
1:B:303:PRO:O	1:B:307:ARG:HG2	2.01	0.59
1:B:654:LYS:HZ2	1:B:694:ASP:N	2.00	0.59
1:B:792:GLU:HB3	1:B:802:TYR:CZ	2.37	0.59
1:C:625:LYS:NZ	1:C:635:GLU:HB2	2.17	0.59
1:D:265:PHE:HA	1:D:268:VAL:HB	1.84	0.59
1:D:317:THR:HG23	1:D:321:TYR:CD1	2.38	0.59
1:D:317:THR:HG22	1:D:321:TYR:CE1	2.30	0.59
1:D:394:ASP:O	1:D:397:ASP:HB3	2.02	0.59
1:D:453:ALA:O	1:D:457:GLU:N	2.27	0.59
1:D:682:VAL:HA	1:D:722:ILE:O	2.02	0.59
1:D:778:LYS:O	1:D:782:LYS:NZ	2.34	0.59
1:E:170:TYR:CE2	1:E:251:LEU:HD21	2.38	0.59
1:E:247:ASP:CB	1:E:250:ALA:H	2.09	0.59
1:E:358:LYS:HZ1	1:E:359:TYR:HB2	1.66	0.59
1:E:372:LEU:HD11	1:E:540:VAL:HG21	1.84	0.59
1:E:805:ASN:N	1:E:854:THR:HA	2.17	0.59
1:F:317:THR:HG22	1:F:318:ASN:H	1.67	0.59
1:A:213:GLU:H	1:A:218:LYS:HD3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:354:GLY:HA2	1:A:361:ILE:HD11	1.84	0.59
1:B:208:PRO:HA	1:B:337:LYS:HB2	1.83	0.59
1:B:302:LYS:HZ3	1:B:305:LEU:HB2	1.67	0.59
1:B:566:ASN:O	1:B:569:LEU:N	2.36	0.59
1:B:752:GLY:O	1:B:756:GLN:HG3	2.02	0.59
1:C:167:LEU:C	1:C:264:ARG:HH21	2.04	0.59
1:C:658:THR:HG23	1:C:662:TYR:HB2	1.83	0.59
1:D:338:ILE:HG22	1:D:339:GLU:N	2.18	0.59
1:D:587:ILE:HD12	1:D:587:ILE:H	1.68	0.59
1:D:705:ASP:HA	1:D:707:ARG:CZ	2.33	0.59
1:E:265:PHE:O	1:E:269:LEU:HG	2.02	0.59
1:E:573:GLU:O	1:E:576:LEU:N	2.35	0.59
1:F:261:PHE:CG	1:F:262:GLU:N	2.70	0.59
1:F:612:PHE:CE2	1:F:614:GLY:HA2	2.37	0.59
1:F:658:THR:N	1:F:667:GLU:OE1	2.25	0.59
1:F:775:LEU:HD22	1:F:780:ILE:HG21	1.84	0.59
1:F:813:PHE:HZ	1:F:875:GLU:HA	1.67	0.59
1:A:248:LEU:HD12	1:A:250:ALA:N	2.18	0.59
1:A:393:LEU:O	1:A:397:ASP:N	2.30	0.59
1:A:842:LEU:O	1:A:846:LYS:HG3	2.01	0.59
1:B:258:LYS:HZ1	1:C:255:ALA:CB	2.15	0.59
1:B:549:THR:C	1:B:552:ARG:HH11	2.06	0.59
1:B:617:GLY:C	1:B:826:ARG:HD2	2.23	0.59
1:C:170:TYR:CD1	1:C:249:ALA:HA	2.34	0.59
1:C:627:VAL:N	1:C:635:GLU:OE2	2.35	0.59
1:D:265:PHE:O	1:D:269:LEU:HG	2.02	0.59
1:D:475:GLU:HA	1:D:478:GLN:HB2	1.84	0.59
1:E:172:ILE:N	1:E:245:SER:O	2.32	0.59
1:E:247:ASP:HB3	1:E:250:ALA:N	2.09	0.59
1:E:611:LEU:HD11	1:E:727:SER:H	1.67	0.59
1:F:205:LYS:HZ3	1:F:334:ARG:N	2.00	0.59
1:F:379:ALA:O	1:F:383:LEU:HB2	2.02	0.59
1:F:640:ARG:NH1	1:F:686:ASP:CG	2.54	0.59
1:F:693:PRO:HA	1:F:696:LEU:HB2	1.83	0.59
1:A:190:GLU:N	1:A:191:GLU:OE1	2.35	0.59
1:A:279:ILE:O	1:A:309:GLN:HB3	2.02	0.59
1:A:791:ILE:HA	1:A:794:ARG:CZ	2.33	0.59
1:B:222:ILE:O	1:B:225:VAL:HB	2.02	0.59
1:B:543:SER:HB2	1:B:547:SER:HB2	1.84	0.59
1:B:842:LEU:CB	1:B:846:LYS:NZ	2.65	0.59
1:C:387:ARG:O	1:C:391:SER:OG	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:ASP:O	1:D:638:MET:N	2.35	0.59
1:D:692:HIS:O	1:D:695:VAL:HB	2.02	0.59
1:D:744:GLU:O	1:D:747:LYS:NZ	2.22	0.59
1:E:751:MET:O	1:E:755:ARG:HG2	2.03	0.59
1:F:273:GLU:CD	1:F:309:GLN:HE22	2.05	0.59
1:F:307:ARG:HH11	1:F:333:ARG:HH12	1.49	0.59
1:F:398:ILE:HG22	1:F:545:THR:HG23	1.83	0.59
1:F:640:ARG:HH21	1:F:684:LEU:HB2	1.67	0.59
1:A:242:LYS:HG3	1:A:243:LEU:H	1.67	0.59
1:A:298:ALA:H	1:A:301:LEU:HD23	1.68	0.59
1:A:574:ARG:O	1:A:577:SER:OG	2.21	0.59
1:A:787:ARG:NE	1:A:790:GLU:OE1	2.24	0.59
1:B:640:ARG:HA	1:B:684:LEU:HB3	1.84	0.59
1:C:242:LYS:N	1:C:279:ILE:HA	2.17	0.59
1:C:683:LEU:HG	1:C:684:LEU:N	2.18	0.59
1:C:737:GLN:HA	1:C:774:LYS:NZ	2.17	0.59
1:D:369:ASP:OD1	1:D:373:VAL:HG23	2.02	0.59
1:D:397:ASP:O	1:D:401:ALA:N	2.29	0.59
1:D:413:GLU:O	1:D:416:SER:HB2	2.02	0.59
1:D:464:GLN:O	1:D:468:GLU:N	2.34	0.59
1:D:679:PRO:HB2	1:D:680:TYR:CE2	2.38	0.59
1:D:855:VAL:HG11	1:D:881:PRO:HG2	1.83	0.59
1:E:284:ASP:HB3	1:E:315:ALA:HB3	1.85	0.59
1:E:551:ALA:HA	1:E:555:GLY:H	1.68	0.59
1:E:789:LYS:HD2	1:E:793:GLU:OE2	2.03	0.59
1:E:841:ALA:HA	1:E:844:ILE:HB	1.85	0.59
1:F:312:VAL:HG22	1:F:313:ILE:N	2.18	0.59
1:B:228:ARG:NH2	1:B:233:ASP:HB2	2.18	0.59
1:B:262:GLU:HA	1:B:265:PHE:CD2	2.37	0.59
1:B:353:ARG:NH2	1:B:372:LEU:HB2	2.18	0.59
1:B:612:PHE:HA	1:B:770:VAL:O	2.02	0.59
1:B:764:ASN:HA	1:C:830:ARG:CZ	2.32	0.59
1:C:158:ALA:N	1:C:165:GLU:OE2	2.31	0.59
1:C:205:LYS:HZ1	1:C:334:ARG:H	1.43	0.59
1:C:287:HIS:ND1	1:C:288:MET:N	2.50	0.59
1:C:597:SER:C	1:C:598:ARG:NH1	2.51	0.59
1:C:713:GLY:O	1:C:714:LYS:HG3	2.02	0.59
1:C:830:ARG:O	1:C:833:GLN:NE2	2.36	0.59
1:C:859:LEU:N	1:C:878:GLU:HA	2.17	0.59
1:D:166:TYR:CE1	1:D:169:LYS:HB3	2.38	0.59
1:D:216:ILE:HD12	2:D:1001:AGS:O3G	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:607:PRO:HB2	1:D:722:ILE:HG23	1.85	0.59
1:D:812:ASP:N	1:D:812:ASP:OD1	2.32	0.59
1:E:448:ALA:HA	1:E:451:LYS:HE3	1.85	0.59
1:E:704:ASP:HA	1:E:765:ARG:CZ	2.31	0.59
1:F:172:ILE:HG12	1:F:245:SER:N	2.13	0.59
1:F:190:GLU:HB3	1:F:228:ARG:NH2	2.17	0.59
1:F:226:ALA:O	1:F:230:ILE:N	2.35	0.59
1:A:211:ILE:H	1:A:316:THR:HG22	1.67	0.59
1:A:217:GLY:O	1:A:221:ILE:HD12	2.03	0.59
1:A:244:PHE:CZ	1:A:279:ILE:HB	2.37	0.59
1:A:381:ARG:HG2	1:A:382:TYR:CD1	2.38	0.59
1:B:92:LEU:O	1:B:96:LEU:N	2.35	0.59
1:B:166:TYR:HA	1:B:169:LYS:NZ	2.18	0.59
1:B:205:LYS:HB3	1:B:336:GLN:HB3	1.85	0.59
1:B:353:ARG:HH22	1:B:372:LEU:HB2	1.66	0.59
1:B:764:ASN:ND2	1:B:765:ARG:HH12	1.99	0.59
1:B:787:ARG:HH11	1:B:790:GLU:CD	2.06	0.59
1:C:482:LYS:O	1:C:485:GLU:N	2.35	0.59
1:C:785:ASP:HA	1:C:788:LEU:HB3	1.85	0.59
1:C:786:ILE:N	1:C:789:LYS:HZ3	2.01	0.59
1:D:302:LYS:HZ3	1:D:306:SER:CA	2.15	0.59
1:E:660:ALA:HB3	1:E:662:TYR:HB2	1.85	0.59
1:E:795:PHE:HZ	1:E:799:ASP:OD2	1.86	0.59
1:F:193:ILE:O	1:F:197:ILE:HG12	2.03	0.59
1:F:280:VAL:HA	1:F:310:LEU:HG	1.85	0.59
1:F:317:THR:O	1:F:321:TYR:OH	2.21	0.59
1:F:356:GLN:NE2	1:F:367:ILE:CD1	2.60	0.59
1:F:587:ILE:O	1:F:591:SER:N	2.36	0.59
1:F:687:GLU:HG2	1:F:728:ALA:H	1.68	0.59
1:F:783:ILE:O	1:F:786:ILE:HB	2.02	0.59
1:F:789:LYS:HA	1:F:792:GLU:OE2	2.03	0.59
1:A:270:LYS:HG2	1:A:273:GLU:OE1	2.03	0.59
1:A:380:LYS:HG2	1:A:680:TYR:OH	2.03	0.59
1:B:180:GLN:CG	1:B:182:LYS:NZ	2.66	0.59
1:B:235:PRO:HB3	1:C:408:ASP:O	2.02	0.59
1:B:363:HIS:HB3	1:B:365:VAL:HG23	1.84	0.59
1:B:657:GLY:O	1:B:667:GLU:HB3	2.03	0.59
1:B:778:LYS:O	1:B:782:LYS:HG2	2.03	0.59
1:C:179:ARG:HD2	1:C:495:ARG:HD2	1.85	0.59
1:C:592:ASN:CA	1:C:595:ARG:HH11	2.16	0.59
1:D:291:GLY:H	1:D:294:LYS:HG2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:390:ASP:O	1:D:393:LEU:HB2	2.03	0.59
1:D:599:SER:OG	1:D:600:GLY:N	2.32	0.59
1:D:762:PHE:O	1:D:766:ILE:HG23	2.02	0.59
1:D:801:HIS:N	1:D:802:TYR:HD1	2.00	0.59
1:E:242:LYS:C	1:E:279:ILE:HA	2.23	0.59
1:E:606:GLN:HG3	1:E:705:ASP:OD2	2.03	0.59
1:E:629:GLY:N	1:E:634:ASP:O	2.36	0.59
1:F:211:ILE:HG13	1:F:318:ASN:OD1	2.03	0.59
1:F:744:GLU:CG	1:F:747:LYS:HB2	2.31	0.59
1:A:198:ARG:HG2	1:B:401:ALA:HB1	1.85	0.58
1:B:173:ASP:OD1	1:B:173:ASP:C	2.40	0.58
1:C:214:PRO:HG2	1:C:387:ARG:NH2	2.18	0.58
1:C:785:ASP:CG	1:C:789:LYS:HZ2	2.06	0.58
1:C:857:VAL:HG12	1:C:878:GLU:HB3	1.86	0.58
1:D:197:ILE:HA	1:D:200:LEU:HD12	1.85	0.58
1:D:763:LEU:H	1:D:763:LEU:HD12	1.66	0.58
1:D:833:GLN:C	1:D:837:LEU:HG	2.23	0.58
1:D:840:LEU:HD12	1:D:841:ALA:N	2.18	0.58
1:E:211:ILE:HA	1:E:316:THR:O	2.03	0.58
1:E:597:SER:OG	1:E:598:ARG:N	2.33	0.58
1:A:594:VAL:O	1:A:597:SER:OG	2.13	0.58
1:A:651:ALA:HB1	1:A:658:THR:HG23	1.85	0.58
1:B:282:PHE:HA	1:B:312:VAL:HB	1.85	0.58
1:B:797:GLN:HB3	1:B:799:ASP:CG	2.23	0.58
1:B:825:ALA:O	1:B:828:LEU:N	2.36	0.58
1:C:391:SER:O	1:C:394:ASP:HB2	2.03	0.58
1:C:513:ILE:HD12	1:C:514:LYS:HG3	1.84	0.58
1:C:567:GLU:O	1:C:571:HIS:N	2.29	0.58
1:D:172:ILE:H	1:D:245:SER:H	1.51	0.58
1:D:190:GLU:CD	1:D:191:GLU:H	2.05	0.58
1:D:266:LYS:HG2	1:D:270:LYS:NZ	2.18	0.58
1:D:377:GLN:HA	1:D:380:LYS:HE3	1.84	0.58
1:D:728:ALA:C	1:D:730:GLY:H	2.07	0.58
1:D:731:ALA:O	1:D:734:ILE:N	2.37	0.58
1:E:226:ALA:O	1:E:229:ILE:HB	2.02	0.58
1:E:228:ARG:NH1	1:E:231:ASP:HB2	2.18	0.58
1:E:367:ILE:HG12	1:E:540:VAL:HG23	1.85	0.58
1:E:405:VAL:O	1:E:408:ASP:N	2.35	0.58
1:E:504:ASP:HA	1:E:507:TYR:CD2	2.38	0.58
1:E:616:SER:HA	2:E:1002:AGS:PB	2.43	0.58
1:E:813:PHE:O	1:E:816:LYS:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:THR:O	1:F:351:ILE:HB	2.03	0.58
1:F:623:LEU:O	1:F:627:VAL:N	2.31	0.58
1:F:702:MET:O	1:F:705:ASP:O	2.21	0.58
1:F:758:PHE:O	1:F:759:ARG:HG2	2.04	0.58
1:A:357:PRO:HA	1:A:361:ILE:H	1.67	0.58
1:A:684:LEU:HA	1:A:723:VAL:HG21	1.86	0.58
1:A:777:ARG:HH12	1:A:815:ALA:C	2.05	0.58
1:B:612:PHE:H	1:B:726:THR:HB	1.67	0.58
1:B:683:LEU:CB	1:B:723:VAL:HB	2.33	0.58
1:C:325:VAL:HA	1:C:331:PHE:CE2	2.37	0.58
1:C:490:ALA:HA	1:C:493:ALA:HB3	1.84	0.58
1:C:557:PRO:HA	1:C:560:LYS:HZ3	1.65	0.58
1:C:680:TYR:HA	1:C:721:CYS:HB2	1.84	0.58
1:C:738:GLN:NE2	1:C:746:THR:HG1	2.00	0.58
1:D:165:GLU:O	1:D:264:ARG:NH2	2.36	0.58
1:D:251:LEU:HA	1:D:261:PHE:HZ	1.67	0.58
1:D:371:ALA:O	1:D:375:ALA:N	2.36	0.58
1:D:377:GLN:O	1:D:380:LYS:HB3	2.02	0.58
1:D:593:ALA:O	1:D:597:SER:OG	2.22	0.58
1:D:813:PHE:O	1:D:817:TYR:N	2.36	0.58
1:E:189:ARG:HA	1:E:191:GLU:OE2	2.02	0.58
1:E:643:CYS:N	1:E:645:GLU:OE1	2.36	0.58
1:E:655:LEU:HG	1:E:710:SER:HA	1.85	0.58
1:F:283:ILE:O	1:F:314:GLY:HA2	2.02	0.58
1:F:833:GLN:O	1:F:837:LEU:N	2.21	0.58
1:A:169:LYS:HZ2	1:A:264:ARG:NH1	2.01	0.58
1:A:200:LEU:HD21	1:A:235:PRO:HG2	1.86	0.58
1:A:624:ALA:O	1:A:627:VAL:HB	2.03	0.58
1:B:176:GLU:CD	1:B:179:ARG:HB3	2.24	0.58
1:B:316:THR:HG22	1:B:317:THR:N	2.18	0.58
1:B:759:ARG:HB3	1:B:762:PHE:HB3	1.85	0.58
1:C:286:ILE:HA	1:C:289:LEU:HD12	1.85	0.58
1:C:417:LYS:HZ1	1:C:463:ARG:CG	2.16	0.58
1:D:202:ARG:O	1:D:206:SER:HB2	2.02	0.58
1:D:425:GLN:HG3	1:D:428:ILE:HD12	1.84	0.58
1:E:168:SER:HG	1:E:264:ARG:HH21	1.47	0.58
1:E:597:SER:O	1:E:601:LEU:HG	2.03	0.58
1:E:742:ILE:HG12	1:E:773:ASN:OD1	2.02	0.58
1:F:211:ILE:HB	1:F:339:GLU:CD	2.24	0.58
1:F:683:LEU:HB3	1:F:685:PHE:CE2	2.38	0.58
1:F:700:LEU:HD22	1:F:761:GLU:HG2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:ARG:O	1:A:198:ARG:HG3	2.02	0.58
1:A:646:LEU:HD12	1:A:647:SER:H	1.67	0.58
1:A:817:TYR:CD1	1:A:874:GLU:HB3	2.38	0.58
1:B:172:ILE:HG12	1:B:245:SER:O	2.03	0.58
1:B:656:LEU:HD21	1:B:710:SER:HA	1.85	0.58
1:B:806:LEU:O	1:B:807:THR:OG1	2.20	0.58
1:B:846:LYS:HE3	1:B:879:VAL:HG13	1.86	0.58
1:C:255:ALA:HB1	1:C:256:LYS:NZ	2.18	0.58
1:C:392:ALA:C	1:C:396:VAL:HG23	2.24	0.58
1:C:564:SER:O	1:C:566:ASN:N	2.29	0.58
1:D:227:GLN:HE21	1:D:231:ASP:CG	2.05	0.58
1:D:283:ILE:O	1:D:314:GLY:HA2	2.04	0.58
1:D:452:GLU:HG2	1:D:456:GLN:HB2	1.85	0.58
1:E:270:LYS:NZ	1:E:274:GLU:CA	2.66	0.58
1:E:369:ASP:HA	1:E:372:LEU:HD12	1.84	0.58
1:E:651:ALA:CA	1:E:656:LEU:HB2	2.25	0.58
1:E:658:THR:HB	1:E:665:TYR:HA	1.85	0.58
1:E:667:GLU:CD	1:E:711:GLY:HA3	2.24	0.58
1:E:767:SER:O	1:F:830:ARG:NH2	2.31	0.58
1:F:548:GLU:HA	1:F:551:ALA:HB3	1.85	0.58
1:F:605:ARG:HG3	1:F:707:ARG:N	2.18	0.58
1:F:607:PRO:HD3	1:F:705:ASP:C	2.24	0.58
1:F:613:LEU:HB2	1:F:770:VAL:O	2.03	0.58
1:F:704:ASP:OD1	1:F:765:ARG:HD3	2.01	0.58
1:F:743:GLN:C	1:F:747:LYS:NZ	2.57	0.58
1:F:833:GLN:HE21	1:F:834:ASN:ND2	2.01	0.58
1:A:213:GLU:CA	1:A:218:LYS:HZ3	2.16	0.58
1:B:189:ARG:NH1	1:B:341:ALA:C	2.47	0.58
1:B:195:SER:OG	1:B:196:THR:N	2.35	0.58
1:B:594:VAL:O	1:B:597:SER:OG	2.12	0.58
1:B:649:LYS:N	1:B:691:ALA:O	2.36	0.58
1:C:172:ILE:HD11	1:C:245:SER:N	2.18	0.58
1:C:197:ILE:HA	1:C:200:LEU:CD1	2.34	0.58
1:C:350:ALA:HA	1:C:353:ARG:HD2	1.84	0.58
1:C:587:ILE:O	1:C:590:VAL:HB	2.04	0.58
1:C:712:GLN:C	1:C:714:LYS:HZ3	2.05	0.58
1:D:463:ARG:NH1	1:D:463:ARG:HB2	2.19	0.58
1:D:673:ASN:HA	1:D:676:GLN:OE1	2.03	0.58
1:D:802:TYR:CE1	1:D:853:GLU:HG3	2.39	0.58
1:E:448:ALA:O	1:E:452:GLU:N	2.31	0.58
1:F:197:ILE:HG13	1:F:228:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:356:GLN:OE1	1:F:372:LEU:HD23	2.03	0.58
1:F:569:LEU:HG	1:F:572:MET:HE1	1.84	0.58
1:F:620:LYS:HD2	2:F:1002:AGS:C4'	2.32	0.58
1:A:549:THR:O	1:A:552:ARG:NH1	2.36	0.58
1:A:801:HIS:N	1:A:851:ASP:OD1	2.37	0.58
1:B:302:LYS:NZ	1:B:305:LEU:HB2	2.18	0.58
1:C:190:GLU:OE2	1:C:192:GLU:OE2	2.22	0.58
1:C:290:MET:C	1:C:294:LYS:HG2	2.24	0.58
1:C:548:GLU:HG2	1:C:549:THR:N	2.17	0.58
1:C:852:LYS:N	1:C:853:GLU:OE1	2.36	0.58
1:D:89:SER:O	1:D:93:GLY:N	2.30	0.58
1:D:198:ARG:HH12	1:E:403:VAL:C	2.07	0.58
1:D:264:ARG:O	1:D:268:VAL:N	2.29	0.58
1:D:357:PRO:CD	1:D:358:LYS:HZ2	2.17	0.58
1:D:639:ILE:HD11	1:D:682:VAL:C	2.23	0.58
1:D:733:PHE:CE2	1:D:750:VAL:HB	2.39	0.58
1:D:778:LYS:O	1:D:781:HIS:N	2.36	0.58
1:E:216:ILE:HG23	1:E:217:GLY:H	1.69	0.58
1:E:222:ILE:O	1:E:225:VAL:HB	2.03	0.58
1:E:300:ILE:O	1:E:303:PRO:HD2	2.03	0.58
1:E:319:ASN:O	1:E:322:ARG:NH1	2.36	0.58
1:E:416:SER:O	1:E:419:ARG:NE	2.37	0.58
1:F:331:PHE:CA	1:F:334:ARG:HD2	2.33	0.58
1:A:606:GLN:HG3	1:A:703:LEU:HD21	1.85	0.58
1:A:790:GLU:HG2	1:A:794:ARG:NH2	2.18	0.58
1:A:839:LYS:HA	1:A:842:LEU:HD12	1.85	0.58
1:A:843:ARG:NH1	1:A:846:LYS:HD2	2.18	0.58
1:B:191:GLU:H	1:B:191:GLU:CD	2.06	0.58
1:B:353:ARG:HH22	1:B:372:LEU:CD1	2.17	0.58
1:B:643:CYS:O	1:B:686:ASP:OD2	2.21	0.58
1:B:650:TYR:HD1	1:B:652:VAL:HG22	1.69	0.58
1:B:754:VAL:O	1:B:756:GLN:N	2.36	0.58
1:C:298:ALA:HB1	1:C:302:LYS:CB	2.33	0.58
1:D:431:LEU:HB3	1:D:443:ASP:OD1	2.03	0.58
1:D:576:LEU:O	1:D:580:VAL:HG23	2.04	0.58
1:E:170:TYR:HB2	1:E:246:LEU:HD13	1.86	0.58
1:E:189:ARG:HB3	1:E:192:GLU:OE1	2.03	0.58
1:E:389:PRO:O	1:E:393:LEU:HG	2.03	0.58
1:F:176:GLU:O	1:F:179:ARG:N	2.36	0.58
1:F:225:VAL:O	1:F:229:ILE:HG12	2.04	0.58
1:F:245:SER:HA	1:F:283:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:366:ARG:O	1:F:367:ILE:HB	2.03	0.58
1:F:790:GLU:HA	1:F:793:GLU:OE2	2.04	0.58
1:A:200:LEU:HD11	1:A:235:PRO:HG2	1.86	0.58
1:A:351:ILE:HG22	1:A:355:LEU:HD11	1.86	0.58
1:A:597:SER:HG	1:A:598:ARG:H	1.50	0.58
1:A:602:ALA:O	1:A:605:ARG:NE	2.18	0.58
1:A:814:LEU:HA	1:A:817:TYR:HB2	1.86	0.58
1:B:210:LEU:CD2	1:B:337:LYS:HZ3	2.13	0.58
1:B:215:GLY:HA2	1:B:218:LYS:HE3	1.85	0.58
1:B:228:ARG:NH1	1:B:231:ASP:OD2	2.36	0.58
1:B:348:THR:O	1:B:351:ILE:N	2.37	0.58
1:B:656:LEU:HA	1:B:668:GLY:CA	2.34	0.58
1:C:323:SER:HA	1:C:326:GLU:CD	2.24	0.58
1:C:485:GLU:HG2	1:C:488:ASN:HD22	1.68	0.58
1:C:708:ILE:HB	1:C:716:ILE:HB	1.85	0.58
1:D:716:ILE:HG13	1:D:717:ASP:O	2.04	0.58
1:D:746:THR:O	1:D:747:LYS:C	2.42	0.58
1:D:784:VAL:HG13	1:D:785:ASP:N	2.17	0.58
1:E:330:ALA:CA	1:E:333:ARG:HB2	2.28	0.58
1:E:516:GLN:O	1:E:520:LEU:HG	2.04	0.58
1:A:177:GLN:HB2	1:A:182:LYS:NZ	2.12	0.58
1:A:608:ALA:O	1:A:722:ILE:HG23	2.04	0.58
1:B:215:GLY:O	1:B:218:LYS:N	2.37	0.58
1:B:700:LEU:HA	1:B:703:LEU:CB	2.27	0.58
1:C:371:ALA:C	1:C:374:THR:HG1	2.04	0.58
1:C:671:LEU:C	1:C:675:LEU:HG	2.24	0.58
1:C:785:ASP:HB2	1:C:789:LYS:HZ2	1.67	0.58
1:D:650:TYR:HB2	1:D:654:LYS:N	2.19	0.58
1:D:744:GLU:C	1:D:747:LYS:NZ	2.55	0.58
1:D:857:VAL:CG1	1:D:878:GLU:HA	2.29	0.58
1:E:323:SER:HA	1:E:326:GLU:OE1	2.04	0.58
1:E:418:GLU:OE2	1:E:421:LEU:HD12	2.04	0.58
1:E:686:ASP:CG	1:E:690:LYS:HE2	2.25	0.58
1:E:779:ALA:O	1:E:782:LYS:N	2.37	0.58
1:A:234:VAL:HB	1:A:238:LEU:HB2	1.86	0.57
1:A:368:LEU:HD21	1:A:540:VAL:H	1.69	0.57
1:B:175:THR:N	1:B:243:LEU:HD11	2.19	0.57
1:B:399:SER:O	1:B:403:VAL:N	2.23	0.57
1:C:599:SER:C	1:C:601:LEU:H	2.07	0.57
1:C:622:GLU:H	1:C:826:ARG:NH1	1.99	0.57
1:D:192:GLU:N	1:D:192:GLU:OE1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:369:ASP:OD1	1:D:369:ASP:O	2.21	0.57
1:D:395:LEU:HD23	1:D:398:ILE:HD12	1.86	0.57
1:D:565:GLU:HG2	1:D:566:ASN:N	2.18	0.57
1:E:276:LYS:HZ3	1:E:279:ILE:HB	1.68	0.57
1:E:377:GLN:O	1:E:381:ARG:N	2.32	0.57
1:E:383:LEU:HD21	1:E:385:TYR:CE1	2.39	0.57
1:E:622:GLU:HA	1:E:625:LYS:HB2	1.86	0.57
1:E:629:GLY:O	1:E:633:ASN:N	2.33	0.57
1:E:681:SER:OG	1:E:722:ILE:N	2.37	0.57
1:F:356:GLN:CB	1:F:357:PRO:HD2	2.25	0.57
1:A:246:LEU:HG	1:A:283:ILE:HD13	1.85	0.57
1:A:361:ILE:HA	1:A:364:GLY:HA2	1.86	0.57
1:A:569:LEU:HA	1:A:572:MET:CG	2.33	0.57
1:A:833:GLN:HA	1:A:836:ILE:HD12	1.85	0.57
1:B:320:GLU:HA	1:B:323:SER:CB	2.34	0.57
1:B:611:LEU:CG	1:B:769:ILE:HA	2.33	0.57
1:C:328:ASP:O	1:C:331:PHE:HB3	2.04	0.57
1:C:350:ALA:N	1:C:353:ARG:NH1	2.52	0.57
1:C:366:ARG:HG2	1:C:538:GLN:O	2.03	0.57
1:C:611:LEU:O	1:C:726:THR:HG22	2.05	0.57
1:C:784:VAL:HG22	1:C:811:LYS:HZ1	1.69	0.57
1:D:175:THR:OG1	1:D:223:GLU:OE2	2.14	0.57
1:D:378:LEU:HA	1:D:381:ARG:HG2	1.86	0.57
1:D:537:ILE:HG13	1:D:540:VAL:CG1	2.34	0.57
1:D:803:LYS:HB3	1:D:806:LEU:CD1	2.33	0.57
1:E:304:ALA:HA	1:E:307:ARG:HD2	1.86	0.57
1:F:240:GLY:O	1:F:278:LEU:N	2.37	0.57
1:F:648:GLU:O	1:F:692:HIS:HA	2.04	0.57
1:F:708:ILE:HD12	1:F:708:ILE:H	1.69	0.57
1:B:166:TYR:O	1:B:169:LYS:HG2	2.03	0.57
1:B:219:THR:O	1:B:222:ILE:HD12	2.04	0.57
1:B:751:MET:HB3	1:B:755:ARG:NH1	2.16	0.57
1:C:48:VAL:O	1:C:55:ILE:N	2.37	0.57
1:C:317:THR:HB	1:C:320:GLU:HB3	1.87	0.57
1:C:322:ARG:HG3	1:C:325:VAL:HB	1.86	0.57
1:C:390:ASP:O	1:C:394:ASP:N	2.27	0.57
1:D:6:GLN:N	1:D:153:ILE:O	2.37	0.57
1:D:408:ASP:CG	1:D:409:SER:N	2.56	0.57
1:D:544:ASP:OD1	1:D:544:ASP:N	2.35	0.57
1:D:791:ILE:CA	1:D:794:ARG:HH12	2.16	0.57
1:D:832:ILE:O	1:D:836:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:169:LYS:HZ2	1:E:268:VAL:N	2.02	0.57
1:E:218:LYS:HZ2	1:E:387:ARG:NH1	2.00	0.57
1:E:221:ILE:O	1:E:225:VAL:HG23	2.04	0.57
1:E:668:GLY:HA3	1:E:672:THR:H	1.68	0.57
1:E:856:ASN:N	1:E:879:VAL:O	2.30	0.57
1:F:305:LEU:HD12	1:F:306:SER:N	2.20	0.57
1:F:803:LYS:HD3	1:F:852:LYS:HB3	1.85	0.57
1:A:320:GLU:HA	1:A:323:SER:HB2	1.84	0.57
1:B:12:LEU:O	1:B:16:THR:N	2.37	0.57
1:B:345:VAL:O	1:B:348:THR:HB	2.05	0.57
1:B:563:GLU:O	1:B:568:LYS:NZ	2.36	0.57
1:B:777:ARG:HG3	1:B:778:LYS:N	2.18	0.57
1:C:174:MET:CG	1:C:242:LYS:HZ3	2.14	0.57
1:C:290:MET:HA	1:C:294:LYS:HA	1.84	0.57
1:C:610:PHE:CB	1:C:724:ILE:HD13	2.34	0.57
1:C:655:LEU:HG	1:C:656:LEU:N	2.18	0.57
1:D:207:ASN:HD21	1:D:311:LYS:HA	1.69	0.57
1:D:218:LYS:O	1:D:221:ILE:HB	2.05	0.57
1:D:225:VAL:HA	1:D:228:ARG:HB2	1.85	0.57
1:D:321:TYR:HD1	1:D:324:ILE:HD13	1.69	0.57
1:D:707:ARG:HB2	1:D:716:ILE:O	2.05	0.57
1:E:217:GLY:O	1:E:220:ALA:HB3	2.05	0.57
1:E:348:THR:O	1:E:352:LEU:HG	2.03	0.57
1:E:409:SER:OG	1:E:414:LEU:HD21	2.03	0.57
1:E:795:PHE:CD2	1:E:796:GLU:N	2.72	0.57
1:F:265:PHE:O	1:F:268:VAL:HB	2.04	0.57
1:A:262:GLU:OE1	1:A:262:GLU:N	2.37	0.57
1:A:331:PHE:CD2	1:A:332:GLU:HB3	2.40	0.57
1:A:584:MET:O	1:A:588:LYS:N	2.26	0.57
1:A:611:LEU:HB2	1:A:724:ILE:HG21	1.87	0.57
1:B:617:GLY:O	1:B:826:ARG:HD2	2.03	0.57
1:B:683:LEU:H	1:B:723:VAL:HG11	1.69	0.57
1:B:696:LEU:O	1:B:699:MET:HB2	2.04	0.57
1:B:745:SER:O	1:B:749:LEU:N	2.30	0.57
1:C:557:PRO:HA	1:C:560:LYS:CE	2.34	0.57
1:D:225:VAL:HG13	1:D:233:ASP:OD2	2.04	0.57
1:D:613:LEU:H	1:D:771:ILE:HA	1.68	0.57
1:D:794:ARG:O	1:D:796:GLU:OE2	2.23	0.57
1:E:237:ILE:H	1:E:237:ILE:HD12	1.68	0.57
1:E:383:LEU:HD11	1:E:385:TYR:CZ	2.39	0.57
1:E:407:ARG:HA	1:E:536:MET:SD	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:THR:O	1:E:553:LEU:HG	2.04	0.57
1:E:657:GLY:HA3	1:E:667:GLU:HA	1.86	0.57
1:E:667:GLU:OE1	1:E:711:GLY:HA3	2.05	0.57
1:F:257:TYR:CZ	1:F:260:ASP:OD2	2.57	0.57
1:F:640:ARG:NE	1:F:685:PHE:O	2.38	0.57
1:F:742:ILE:CG2	1:F:747:LYS:HZ2	2.17	0.57
1:A:344:SER:O	1:A:348:THR:N	2.34	0.57
1:A:700:LEU:HD21	1:A:765:ARG:HB2	1.86	0.57
1:B:550:ALA:HA	1:B:552:ARG:NH1	2.20	0.57
1:B:659:THR:OG1	1:B:661:GLY:O	2.14	0.57
1:B:830:ARG:O	1:B:833:GLN:HB3	2.03	0.57
1:C:460:GLU:OE1	1:C:463:ARG:HD2	2.05	0.57
1:C:506:ARG:NH2	1:D:430:ALA:HB1	2.20	0.57
1:C:654:LYS:O	1:C:671:LEU:HG	2.04	0.57
1:C:857:VAL:HA	1:C:880:LEU:H	1.70	0.57
1:D:248:LEU:O	1:D:251:LEU:HG	2.05	0.57
1:D:493:ALA:HB3	1:D:498:ASP:OD2	2.04	0.57
1:D:650:TYR:HB2	1:D:654:LYS:HB3	1.87	0.57
1:D:777:ARG:CA	1:D:780:ILE:HB	2.34	0.57
1:D:879:VAL:HG12	1:D:880:LEU:N	2.18	0.57
1:E:169:LYS:NZ	1:E:268:VAL:H	2.03	0.57
1:E:762:PHE:O	1:E:766:ILE:HG13	2.04	0.57
1:F:193:ILE:HG22	1:F:228:ARG:NH1	2.20	0.57
1:F:206:SER:OG	1:F:207:ASN:ND2	2.37	0.57
1:F:707:ARG:HA	1:F:715:THR:HG21	1.86	0.57
1:A:270:LYS:HA	1:A:273:GLU:HB2	1.85	0.57
1:A:828:LEU:O	1:A:832:ILE:HG13	2.04	0.57
1:B:673:ASN:HA	1:B:676:GLN:HB3	1.86	0.57
1:C:234:VAL:HB	1:C:239:GLN:HA	1.85	0.57
1:C:333:ARG:C	1:C:335:PHE:H	2.06	0.57
1:C:784:VAL:CG2	1:C:785:ASP:H	2.13	0.57
1:D:187:ILE:C	2:D:1001:AGS:HN62	2.06	0.57
1:D:297:ALA:HB3	1:D:299:ASN:ND2	2.20	0.57
1:D:650:TYR:HD2	1:D:654:LYS:CB	2.14	0.57
1:D:723:VAL:CG1	1:D:725:MET:HG3	2.35	0.57
1:E:179:ARG:HG2	1:E:492:ASP:OD2	2.04	0.57
1:E:209:CYS:SG	1:E:210:LEU:N	2.76	0.57
1:E:621:THR:HG22	1:E:625:LYS:CD	2.35	0.57
1:E:645:GLU:N	1:E:649:LYS:HZ2	2.00	0.57
1:E:659:THR:O	1:E:714:LYS:NZ	2.36	0.57
1:F:704:ASP:CG	1:F:765:ARG:NH2	2.56	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:LEU:HB3	1:A:282:PHE:N	2.20	0.57
1:A:283:ILE:H	1:A:312:VAL:CG2	2.17	0.57
1:A:808:GLN:O	1:A:811:LYS:HB2	2.05	0.57
1:A:818:GLY:O	1:A:828:LEU:HB2	2.05	0.57
1:A:822:ASP:OD1	1:F:307:ARG:NH2	2.34	0.57
1:A:842:LEU:O	1:A:845:LEU:HB3	2.05	0.57
1:B:320:GLU:HA	1:B:323:SER:OG	2.05	0.57
1:B:778:LYS:HA	1:B:781:HIS:HB3	1.85	0.57
1:B:787:ARG:O	1:B:790:GLU:N	2.38	0.57
1:B:848:GLU:HG3	1:B:849:ILE:N	2.18	0.57
1:C:568:LYS:NZ	1:C:630:PHE:CD2	2.73	0.57
1:C:620:LYS:O	1:C:623:LEU:HB3	2.04	0.57
1:C:718:CYS:O	1:C:720:ASN:N	2.32	0.57
1:C:813:PHE:CZ	1:C:877:LEU:HA	2.40	0.57
1:C:828:LEU:HD22	1:C:832:ILE:HD11	1.86	0.57
1:D:225:VAL:O	1:D:229:ILE:HG13	2.05	0.57
1:D:234:VAL:HG12	1:D:235:PRO:O	2.04	0.57
1:D:251:LEU:O	1:D:253:ALA:N	2.37	0.57
1:D:381:ARG:HH11	1:D:382:TYR:HE1	1.50	0.57
1:D:668:GLY:O	1:D:671:LEU:HG	2.05	0.57
1:E:191:GLU:HG2	1:E:192:GLU:N	2.19	0.57
1:E:356:GLN:O	1:E:359:TYR:N	2.38	0.57
1:E:470:LYS:HA	1:E:473:HIS:ND1	2.20	0.57
1:E:696:LEU:HD23	1:E:699:MET:SD	2.45	0.57
1:E:815:ALA:C	1:E:818:GLY:H	2.08	0.57
1:F:783:ILE:HD12	1:F:786:ILE:HD12	1.86	0.57
1:F:807:THR:HB	1:F:856:ASN:HA	1.87	0.57
1:B:211:ILE:HG12	1:B:317:THR:C	2.24	0.57
1:B:251:LEU:N	1:B:264:ARG:HH12	2.00	0.57
1:B:637:MET:HE2	1:B:681:SER:HA	1.87	0.57
1:B:646:LEU:N	1:B:692:HIS:N	2.47	0.57
1:C:214:PRO:HG2	1:C:387:ARG:HH21	1.69	0.57
1:C:242:LYS:H	1:C:280:VAL:H	1.52	0.57
1:C:395:LEU:O	1:C:399:SER:OG	2.22	0.57
1:C:612:PHE:HA	1:C:726:THR:CA	2.32	0.57
1:C:648:GLU:HG3	1:C:692:HIS:CD2	2.40	0.57
1:C:733:PHE:HZ	1:C:749:LEU:CB	2.12	0.57
1:C:803:LYS:NZ	1:C:854:THR:N	2.53	0.57
1:C:857:VAL:CA	1:C:880:LEU:HB3	2.31	0.57
1:D:200:LEU:HD23	1:D:208:PRO:HD2	1.86	0.57
1:D:260:ASP:OD2	1:D:264:ARG:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:460:GLU:OE2	1:D:463:ARG:NH1	2.38	0.57
1:D:461:PRO:HB2	1:D:465:ARG:HE	1.69	0.57
1:E:200:LEU:HB3	1:E:311:LYS:HE3	1.87	0.57
1:E:268:VAL:O	1:E:272:ILE:N	2.24	0.57
1:E:611:LEU:N	1:E:769:ILE:HG12	2.19	0.57
1:E:617:GLY:N	2:E:1002:AGS:O2G	2.21	0.57
1:E:798:ASN:HA	1:E:801:HIS:CB	2.33	0.57
1:F:286:ILE:HA	1:F:289:LEU:HB2	1.87	0.57
1:F:605:ARG:HD2	1:F:707:ARG:HB3	1.86	0.57
1:F:649:LYS:O	1:F:694:ASP:HB2	2.05	0.57
1:A:583:GLN:O	1:A:587:ILE:N	2.20	0.57
1:B:176:GLU:OE2	1:B:179:ARG:HB3	2.05	0.57
1:B:617:GLY:CA	1:B:620:LYS:NZ	2.67	0.57
1:B:803:LYS:H	1:B:853:GLU:HB3	1.70	0.57
1:B:804:LEU:H	1:B:853:GLU:HG2	1.69	0.57
1:C:176:GLU:O	1:C:180:GLN:NE2	2.35	0.57
1:C:212:GLY:HA3	1:C:340:VAL:HG22	1.87	0.57
1:C:678:LYS:HE2	1:C:681:SER:CB	2.32	0.57
1:C:842:LEU:CD1	1:C:881:PRO:HB3	2.33	0.57
1:C:853:GLU:O	1:C:853:GLU:HG2	2.04	0.57
1:D:124:SER:N	1:D:126:ILE:O	2.38	0.57
1:D:659:THR:HG22	1:D:660:ALA:H	1.69	0.57
1:D:707:ARG:HA	1:D:716:ILE:HG22	1.86	0.57
1:E:186:VAL:HG13	2:E:1001:AGS:C2	2.35	0.57
1:E:577:SER:OG	1:E:578:SER:N	2.37	0.57
1:E:611:LEU:O	1:E:770:VAL:N	2.38	0.57
1:E:637:MET:HG2	1:E:680:TYR:O	2.04	0.57
1:E:747:LYS:HA	1:E:750:VAL:HB	1.86	0.57
1:F:245:SER:HB3	1:F:282:PHE:O	2.05	0.57
1:F:363:HIS:ND1	1:F:397:ASP:OD1	2.37	0.57
1:F:612:PHE:HA	1:F:770:VAL:HG21	1.87	0.57
1:A:268:VAL:HA	1:A:271:GLU:CB	2.34	0.56
1:B:246:LEU:H	1:B:283:ILE:HB	1.68	0.56
1:B:385:TYR:CZ	1:B:386:ARG:CZ	2.87	0.56
1:B:751:MET:CA	1:B:755:ARG:HH12	2.17	0.56
1:C:261:PHE:O	1:C:263:GLU:N	2.38	0.56
1:C:471:HIS:ND1	1:C:474:GLU:OE1	2.33	0.56
1:C:591:SER:HB2	1:C:595:ARG:NH1	2.19	0.56
1:C:593:ALA:HA	1:C:596:LEU:HD12	1.87	0.56
1:D:198:ARG:HD3	1:E:401:ALA:C	2.25	0.56
1:D:218:LYS:HZ2	2:D:1001:AGS:PA	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:262:GLU:CD	1:D:263:GLU:HG2	2.25	0.56
1:D:342:GLU:HG3	1:D:343:PRO:O	2.05	0.56
1:D:378:LEU:O	1:D:382:TYR:N	2.38	0.56
1:D:425:GLN:OE1	1:D:456:GLN:NE2	2.37	0.56
1:D:630:PHE:O	1:D:631:LEU:C	2.43	0.56
1:D:755:ARG:NH2	1:D:756:GLN:OE1	2.38	0.56
1:D:853:GLU:HG2	1:D:854:THR:N	2.20	0.56
1:E:325:VAL:O	1:E:329:GLY:N	2.29	0.56
1:E:802:TYR:HB3	1:E:852:LYS:CA	2.35	0.56
1:F:556:ILE:HG13	1:F:559:LYS:N	2.17	0.56
1:F:569:LEU:HD22	1:F:598:ARG:HH21	1.70	0.56
1:F:572:MET:O	1:F:576:LEU:HG	2.04	0.56
1:F:678:LYS:NZ	1:F:680:TYR:C	2.59	0.56
1:F:708:ILE:H	1:F:715:THR:CG2	2.18	0.56
1:F:806:LEU:HB3	1:F:811:LYS:HD3	1.87	0.56
1:F:834:ASN:O	1:F:838:ASN:N	2.35	0.56
1:A:210:LEU:HB3	1:A:338:ILE:O	2.04	0.56
1:A:213:GLU:HG3	1:A:387:ARG:HH21	1.70	0.56
1:A:256:LYS:HE3	1:A:257:TYR:CZ	2.40	0.56
1:A:387:ARG:O	1:A:391:SER:N	2.31	0.56
1:A:700:LEU:HD11	1:A:765:ARG:HB3	1.86	0.56
1:B:197:ILE:HA	1:B:200:LEU:CD1	2.34	0.56
1:B:359:TYR:CZ	1:B:363:HIS:NE2	2.73	0.56
1:B:650:TYR:N	1:B:692:HIS:CE1	2.73	0.56
1:B:750:VAL:HA	1:B:753:ALA:HB3	1.87	0.56
1:C:403:VAL:O	1:C:406:ALA:N	2.38	0.56
1:D:480:LYS:O	1:D:484:ASP:N	2.23	0.56
1:E:188:GLY:N	1:E:190:GLU:OE2	2.38	0.56
1:E:211:ILE:HD13	1:E:337:LYS:HD2	1.85	0.56
1:E:474:GLU:HA	1:E:477:THR:HB	1.85	0.56
1:E:610:PHE:HD2	1:E:724:ILE:HD12	1.70	0.56
1:F:170:TYR:HB2	1:F:246:LEU:O	2.05	0.56
1:F:294:LYS:CE	1:F:325:VAL:HG12	2.27	0.56
1:F:353:ARG:HA	1:F:356:GLN:HB2	1.87	0.56
1:F:356:GLN:HE22	1:F:372:LEU:CD2	2.11	0.56
1:F:394:ASP:O	1:F:398:ILE:N	2.24	0.56
1:A:212:GLY:H	1:A:315:ALA:C	2.09	0.56
1:A:290:MET:HB3	1:A:293:GLY:H	1.68	0.56
1:A:366:ARG:O	1:A:367:ILE:HG22	2.05	0.56
1:A:380:LYS:NZ	1:A:680:TYR:OH	2.33	0.56
1:A:583:GLN:HE22	1:A:773:ASN:N	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:680:TYR:O	1:A:720:ASN:HB3	2.06	0.56
1:A:813:PHE:CG	1:A:814:LEU:N	2.74	0.56
1:B:11:ALA:O	1:B:15:LEU:N	2.38	0.56
1:B:173:ASP:O	1:B:175:THR:N	2.37	0.56
1:B:610:PHE:N	1:B:724:ILE:HD12	2.20	0.56
1:B:722:ILE:O	1:B:723:VAL:HG23	2.05	0.56
1:B:820:SER:N	1:B:824:GLY:HA2	2.19	0.56
1:C:218:LYS:O	1:C:221:ILE:HB	2.06	0.56
1:C:228:ARG:HA	1:C:231:ASP:HB2	1.87	0.56
1:C:355:LEU:HD22	1:C:358:LYS:HD3	1.85	0.56
1:C:421:LEU:O	1:C:424:ILE:HG22	2.05	0.56
1:C:541:VAL:HB	1:C:544:ASP:OD2	2.04	0.56
1:C:646:LEU:HB3	1:C:695:VAL:HG21	1.86	0.56
1:C:788:LEU:HD11	1:C:792:GLU:HB2	1.87	0.56
1:C:825:ALA:HA	1:C:828:LEU:HB2	1.86	0.56
1:C:839:LYS:HZ2	1:C:881:PRO:N	2.03	0.56
1:D:165:GLU:OE2	1:D:167:LEU:HD12	2.05	0.56
1:D:243:LEU:HD21	1:D:282:PHE:CB	2.32	0.56
1:D:391:SER:HA	1:D:394:ASP:CG	2.26	0.56
1:D:617:GLY:N	1:D:620:LYS:HG2	2.20	0.56
1:D:620:LYS:CG	1:D:621:THR:H	2.15	0.56
1:D:794:ARG:NH1	1:D:795:PHE:HE1	2.00	0.56
1:D:805:ASN:HA	1:D:856:ASN:HB3	1.88	0.56
1:E:189:ARG:NH2	1:E:192:GLU:OE2	2.39	0.56
1:E:205:LYS:CB	1:E:336:GLN:HE22	2.13	0.56
1:E:388:LEU:HB3	1:E:389:PRO:HD3	1.87	0.56
1:E:421:LEU:O	1:E:425:GLN:N	2.37	0.56
1:E:620:LYS:NZ	2:E:1002:AGS:PB	2.79	0.56
1:E:622:GLU:HA	1:E:625:LYS:HD3	1.87	0.56
1:E:802:TYR:CD1	1:E:852:LYS:HA	2.41	0.56
1:F:215:GLY:O	2:F:1001:AGS:O2B	2.22	0.56
1:F:219:THR:O	1:F:222:ILE:N	2.39	0.56
1:F:287:HIS:NE2	1:F:322:ARG:CA	2.68	0.56
1:F:287:HIS:CE1	1:F:322:ARG:HA	2.40	0.56
1:F:674:GLN:O	1:F:678:LYS:N	2.33	0.56
1:F:685:PHE:CG	1:F:725:MET:HA	2.41	0.56
1:F:700:LEU:HG	1:F:703:LEU:CD2	2.05	0.56
1:F:750:VAL:HA	1:F:753:ALA:HB3	1.88	0.56
1:F:807:THR:O	1:F:810:ALA:N	2.38	0.56
1:A:169:LYS:NZ	1:A:170:TYR:CE1	2.70	0.56
1:A:213:GLU:OE2	1:A:318:ASN:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:ILE:HA	1:A:239:GLN:HE22	1.70	0.56
1:A:265:PHE:HA	1:A:268:VAL:HG22	1.87	0.56
1:A:386:ARG:HB3	1:A:390:ASP:OD2	2.05	0.56
1:A:820:SER:OG	1:A:823:MET:N	2.37	0.56
1:A:829:ASN:HA	1:A:832:ILE:HD12	1.87	0.56
1:B:211:ILE:O	1:B:318:ASN:N	2.39	0.56
1:B:228:ARG:CZ	1:B:233:ASP:HB2	2.34	0.56
1:B:252:THR:HG21	1:B:256:LYS:NZ	2.20	0.56
1:C:169:LYS:CG	1:C:264:ARG:NE	2.46	0.56
1:C:216:ILE:O	2:C:1001:AGS:O2'	2.20	0.56
1:C:265:PHE:CE1	1:C:269:LEU:HD21	2.39	0.56
1:C:280:VAL:HA	1:C:311:LYS:HG3	1.87	0.56
1:D:270:LYS:HA	1:D:273:GLU:CD	2.26	0.56
1:D:656:LEU:HD21	1:D:709:THR:HG22	1.88	0.56
1:D:701:GLN:O	1:D:703:LEU:HB3	2.05	0.56
1:D:758:PHE:CD2	1:D:759:ARG:HG3	2.40	0.56
1:D:761:GLU:HA	1:D:764:ASN:ND2	2.19	0.56
1:D:762:PHE:HD1	1:D:763:LEU:HD12	1.70	0.56
1:E:535:SER:O	1:E:537:ILE:HG12	2.05	0.56
1:E:541:VAL:HG12	1:E:544:ASP:OD2	2.05	0.56
1:E:653:SER:O	1:E:668:GLY:HA2	2.05	0.56
1:F:268:VAL:HG12	1:F:272:ILE:HD13	1.87	0.56
1:F:629:GLY:O	1:F:632:PHE:N	2.38	0.56
1:F:698:VAL:O	1:F:701:GLN:HB2	2.05	0.56
1:A:205:LYS:NZ	1:B:393:LEU:O	2.39	0.56
1:A:560:LYS:HZ1	1:A:633:ASN:HB2	1.71	0.56
1:A:643:CYS:SG	1:A:688:VAL:N	2.78	0.56
1:A:658:THR:HB	1:A:667:GLU:HA	1.87	0.56
1:B:331:PHE:HD1	1:B:334:ARG:CZ	2.19	0.56
1:B:731:ALA:HB3	1:B:746:THR:HG23	1.87	0.56
1:B:755:ARG:HH11	1:B:755:ARG:HG3	1.71	0.56
1:B:799:ASP:O	1:B:801:HIS:ND1	2.39	0.56
1:B:849:ILE:HG23	1:B:852:LYS:HB2	1.87	0.56
1:C:211:ILE:HG21	1:C:316:THR:H	1.71	0.56
1:C:216:ILE:HG13	1:C:218:LYS:HG3	1.88	0.56
1:C:302:LYS:HE2	1:C:310:LEU:HB3	1.88	0.56
1:C:686:ASP:C	1:C:688:VAL:H	2.09	0.56
1:C:831:LEU:HD12	1:C:834:ASN:OD1	2.05	0.56
1:D:398:ILE:HA	1:D:401:ALA:HB3	1.87	0.56
1:D:686:ASP:CG	1:D:727:SER:HA	2.26	0.56
1:D:710:SER:CB	1:D:714:LYS:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:367:ILE:HG23	1:E:372:LEU:HD11	1.88	0.56
1:E:383:LEU:HD22	1:E:386:ARG:HG2	1.88	0.56
1:E:397:ASP:O	1:E:400:CYS:N	2.39	0.56
1:E:421:LEU:HA	1:E:452:GLU:OE2	2.04	0.56
1:E:571:HIS:HD2	1:E:574:ARG:HD3	1.68	0.56
1:F:337:LYS:HD2	1:F:339:GLU:OE2	2.06	0.56
1:F:632:PHE:CZ	1:F:720:ASN:HB3	2.40	0.56
1:F:837:LEU:O	1:F:840:LEU:HB2	2.05	0.56
1:A:269:LEU:HD23	1:A:270:LYS:HG3	1.87	0.56
1:A:274:GLU:O	1:A:276:LYS:HG3	2.06	0.56
1:A:347:GLN:H	1:A:347:GLN:CD	2.09	0.56
1:A:543:SER:HA	1:A:547:SER:CB	2.32	0.56
1:A:612:PHE:N	1:A:770:VAL:O	2.35	0.56
1:B:180:GLN:CG	1:B:182:LYS:HZ3	2.18	0.56
1:B:194:ARG:HA	1:B:197:ILE:CD1	2.33	0.56
1:B:274:GLU:CD	1:B:274:GLU:H	2.01	0.56
1:B:302:LYS:HA	1:B:305:LEU:HD12	1.88	0.56
1:B:343:PRO:HG2	1:B:388:LEU:HD23	1.87	0.56
1:B:609:SER:O	1:B:767:SER:N	2.39	0.56
1:C:291:GLY:H	1:C:294:LYS:NZ	2.03	0.56
1:C:308:GLY:O	1:C:310:LEU:HG	2.05	0.56
1:C:366:ARG:NH1	1:C:534:ASN:OD1	2.39	0.56
1:C:481:LYS:O	1:C:484:ASP:HB3	2.06	0.56
1:C:686:ASP:CB	1:C:690:LYS:NZ	2.68	0.56
1:C:796:GLU:HG2	1:C:797:GLN:OE1	2.05	0.56
1:D:167:LEU:HA	1:D:170:TYR:CG	2.40	0.56
1:D:659:THR:HG22	1:D:660:ALA:N	2.21	0.56
1:D:705:ASP:CG	1:D:707:ARG:NH1	2.59	0.56
1:E:366:ARG:NH1	1:E:367:ILE:C	2.59	0.56
1:E:407:ARG:HH12	1:E:538:GLN:NE2	2.03	0.56
1:E:761:GLU:OE1	1:E:761:GLU:N	2.39	0.56
1:F:360:GLU:OE1	1:F:367:ILE:HD12	2.06	0.56
1:F:558:VAL:HA	1:F:561:LEU:O	2.04	0.56
1:A:274:GLU:HB3	1:A:276:LYS:NZ	2.21	0.56
1:A:796:GLU:OE2	1:A:800:LYS:N	2.39	0.56
1:B:228:ARG:HH22	1:B:233:ASP:HB2	1.71	0.56
1:B:610:PHE:HB2	1:B:724:ILE:HG13	1.87	0.56
1:B:617:GLY:H	1:B:620:LYS:HZ2	1.54	0.56
1:B:681:SER:HB3	1:B:722:ILE:N	2.20	0.56
1:B:777:ARG:HG3	1:B:778:LYS:H	1.69	0.56
1:C:48:VAL:CA	1:C:53:ASN:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:VAL:HG22	2:C:1001:AGS:C2	2.35	0.56
1:C:189:ARG:NH1	1:C:341:ALA:N	2.51	0.56
1:C:236:THR:O	1:C:239:GLN:N	2.33	0.56
1:C:266:LYS:HA	1:C:269:LEU:HG	1.87	0.56
1:C:330:ALA:O	1:C:333:ARG:N	2.39	0.56
1:C:334:ARG:O	1:C:336:GLN:NE2	2.39	0.56
1:C:356:GLN:HG2	1:C:357:PRO:CD	2.35	0.56
1:C:747:LYS:O	1:C:750:VAL:HB	2.06	0.56
1:C:762:PHE:CZ	1:C:766:ILE:HD11	2.40	0.56
1:C:808:GLN:OE1	1:C:811:LYS:HB2	2.06	0.56
1:C:858:VAL:C	1:C:878:GLU:HA	2.25	0.56
1:D:466:TYR:HE1	1:D:538:GLN:NE2	2.00	0.56
1:D:490:ALA:O	1:D:494:GLU:HG2	2.06	0.56
1:E:243:LEU:HD12	1:E:244:PHE:HA	1.88	0.56
1:E:246:LEU:HB3	1:E:281:LEU:HD21	1.87	0.56
1:E:304:ALA:HA	1:E:307:ARG:HB2	1.87	0.56
1:E:467:ASN:HA	1:E:470:LYS:HB3	1.87	0.56
1:E:612:PHE:CA	1:E:771:ILE:HA	2.35	0.56
1:E:759:ARG:C	1:E:763:LEU:HG	2.26	0.56
1:F:696:LEU:O	1:F:703:LEU:HD21	2.06	0.56
1:A:223:GLU:OE2	1:A:284:ASP:OD2	2.24	0.56
1:A:381:ARG:CG	1:A:382:TYR:HD1	2.18	0.56
1:A:782:LYS:O	1:A:785:ASP:HB3	2.05	0.56
1:B:252:THR:HB	1:B:254:GLY:H	1.71	0.56
1:B:353:ARG:CZ	1:B:372:LEU:HB2	2.35	0.56
1:B:398:ILE:HA	1:B:401:ALA:HB3	1.88	0.56
1:B:637:MET:O	1:B:637:MET:HG3	2.06	0.56
1:C:194:ARG:O	1:C:197:ILE:N	2.38	0.56
1:C:196:THR:O	1:C:200:LEU:HG	2.05	0.56
1:C:282:PHE:CB	1:C:313:ILE:H	2.19	0.56
1:C:366:ARG:HD3	1:C:476:LEU:HD21	1.86	0.56
1:C:839:LYS:HD3	1:C:842:LEU:HD13	1.87	0.56
1:D:186:VAL:HB	2:D:1001:AGS:N3	2.21	0.56
1:D:198:ARG:HH12	1:E:406:ALA:H	1.53	0.56
1:D:203:ARG:NH1	1:E:363:HIS:ND1	2.53	0.56
1:D:564:SER:C	1:D:568:LYS:HE2	2.25	0.56
1:D:609:SER:O	1:D:768:SER:OG	2.20	0.56
1:D:641:VAL:HG12	1:D:642:ASP:N	2.21	0.56
1:D:674:GLN:O	1:D:677:TYR:N	2.38	0.56
1:D:730:GLY:O	1:D:734:ILE:HD12	2.06	0.56
1:D:811:LYS:O	1:D:814:LEU:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:463:ARG:HA	1:E:466:TYR:HD2	1.71	0.56
1:E:687:GLU:HA	1:E:727:SER:HA	1.86	0.56
1:E:754:VAL:CA	1:E:757:HIS:HD2	2.17	0.56
1:F:281:LEU:O	1:F:312:VAL:HA	2.05	0.56
1:F:621:THR:HB	2:F:1002:AGS:O5'	2.05	0.56
1:F:701:GLN:OE1	1:F:709:THR:HG21	2.06	0.56
1:F:819:TYR:HD1	1:F:824:GLY:O	1.89	0.56
1:F:832:ILE:O	1:F:836:ILE:HG12	2.06	0.56
1:A:229:ILE:HA	1:A:233:ASP:CB	2.21	0.56
1:A:248:LEU:N	1:A:288:MET:SD	2.79	0.56
1:B:290:MET:HB2	1:B:324:ILE:HD11	1.88	0.56
1:C:265:PHE:HZ	1:C:301:LEU:HD11	1.71	0.56
1:C:274:GLU:N	1:C:276:LYS:NZ	2.53	0.56
1:C:349:VAL:HA	1:C:352:LEU:CD1	2.35	0.56
1:C:366:ARG:NE	1:C:539:ASN:HB3	2.21	0.56
1:C:428:ILE:CG2	1:C:449:ARG:HH12	2.18	0.56
1:C:634:ASP:HB2	1:C:636:ASP:CG	2.26	0.56
1:C:638:MET:HA	1:C:681:SER:OG	2.06	0.56
1:C:712:GLN:C	1:C:714:LYS:HZ1	2.08	0.56
1:D:218:LYS:CA	1:D:221:ILE:HB	2.36	0.56
1:D:686:ASP:OD2	1:D:727:SER:HA	2.06	0.56
1:D:703:LEU:O	1:D:706:GLY:N	2.39	0.56
1:D:791:ILE:O	1:D:793:GLU:N	2.39	0.56
1:D:818:GLY:HA2	1:D:828:LEU:HD11	1.88	0.56
1:D:835:GLU:OE1	1:D:836:ILE:HD13	2.05	0.56
1:E:207:ASN:HA	1:E:311:LYS:NZ	2.21	0.56
1:E:296:ASP:OD1	1:E:299:ASN:ND2	2.39	0.56
1:E:323:SER:C	1:E:327:LYS:NZ	2.59	0.56
1:E:358:LYS:HZ1	1:E:359:TYR:CB	2.19	0.56
1:E:653:SER:OG	1:E:654:LYS:N	2.39	0.56
1:E:732:GLU:HG2	1:E:733:PHE:N	2.21	0.56
1:E:737:GLN:HE21	1:E:739:GLY:H	1.54	0.56
1:E:740:SER:HA	1:E:774:LYS:O	2.06	0.56
1:E:805:ASN:HA	1:E:855:VAL:HG23	1.88	0.56
1:E:826:ARG:NE	2:E:1002:AGS:H1'	2.20	0.56
1:F:217:GLY:H	2:F:1001:AGS:PB	2.29	0.56
1:F:353:ARG:HG3	1:F:354:GLY:N	2.20	0.56
1:F:395:LEU:O	1:F:399:SER:OG	2.16	0.56
1:F:563:GLU:OE2	1:F:571:HIS:HB2	2.05	0.56
1:F:622:GLU:OE1	2:F:1002:AGS:H8	2.06	0.56
1:A:565:GLU:HA	1:A:568:LYS:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:591:SER:O	1:A:595:ARG:N	2.27	0.56
1:B:303:PRO:O	1:B:306:SER:OG	2.11	0.56
1:B:329:GLY:O	1:B:333:ARG:N	2.30	0.56
1:B:344:SER:CA	1:B:347:GLN:HE22	2.19	0.56
1:B:366:ARG:C	1:B:539:ASN:HB2	2.26	0.56
1:B:695:VAL:O	1:B:699:MET:HG3	2.06	0.56
1:B:737:GLN:H	1:B:774:LYS:NZ	2.04	0.56
1:B:840:LEU:O	1:B:843:ARG:N	2.39	0.56
1:C:410:LYS:HD3	1:C:470:LYS:HZ3	1.70	0.56
1:C:620:LYS:H	1:C:772:PHE:HE1	1.54	0.56
1:C:621:THR:O	1:C:625:LYS:N	2.29	0.56
1:C:828:LEU:O	1:C:832:ILE:HG13	2.05	0.56
2:C:1001:AGS:O1A	2:C:1001:AGS:O3'	2.19	0.56
1:D:216:ILE:HB	2:D:1001:AGS:PA	2.46	0.56
1:D:284:ASP:O	1:D:315:ALA:N	2.26	0.56
1:D:570:ILE:CB	1:D:595:ARG:HH12	2.18	0.56
1:D:637:MET:SD	1:D:678:LYS:HD3	2.46	0.56
1:E:186:VAL:HG22	2:E:1001:AGS:C5	2.35	0.56
1:E:202:ARG:HD3	1:E:205:LYS:O	2.06	0.56
1:E:694:ASP:HA	1:E:697:THR:OG1	2.05	0.56
1:E:785:ASP:OD1	1:E:785:ASP:N	2.38	0.56
1:A:278:LEU:HA	1:A:309:GLN:HG2	1.88	0.55
1:B:336:GLN:HE21	1:B:337:LYS:HA	1.71	0.55
1:B:573:GLU:H	1:B:595:ARG:HH22	1.53	0.55
1:B:593:ALA:HA	1:B:596:LEU:HB2	1.88	0.55
1:B:643:CYS:O	1:B:645:GLU:N	2.40	0.55
1:C:190:GLU:CG	1:C:191:GLU:H	2.14	0.55
1:C:196:THR:O	1:C:199:VAL:N	2.39	0.55
1:C:622:GLU:N	1:C:826:ARG:HH12	1.97	0.55
1:C:643:CYS:SG	1:C:690:LYS:N	2.79	0.55
1:C:707:ARG:HG3	1:C:707:ARG:O	2.07	0.55
1:D:209:CYS:C	1:D:210:LEU:HD12	2.27	0.55
1:D:262:GLU:CB	1:D:298:ALA:HB2	2.31	0.55
1:D:265:PHE:CD2	1:D:298:ALA:HB1	2.40	0.55
1:D:330:ALA:HA	1:D:333:ARG:HG3	1.88	0.55
1:D:461:PRO:C	1:D:465:ARG:HG3	2.27	0.55
1:D:468:GLU:HA	1:D:471:HIS:HB3	1.88	0.55
1:D:592:ASN:O	1:D:596:LEU:HG	2.06	0.55
1:D:740:SER:OG	1:D:741:LYS:N	2.39	0.55
1:E:247:ASP:CG	1:E:249:ALA:HB3	2.27	0.55
1:E:434:ASP:OD2	1:E:436:ASP:OD2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:611:LEU:HD12	1:E:612:PHE:H	1.71	0.55
1:E:668:GLY:HA3	1:E:672:THR:OG1	2.07	0.55
1:E:671:LEU:HD23	1:E:672:THR:N	2.20	0.55
1:E:701:GLN:HA	1:E:704:ASP:HB3	1.87	0.55
1:F:202:ARG:NH1	1:F:208:PRO:CD	2.62	0.55
1:F:219:THR:HG23	1:F:222:ILE:HB	1.87	0.55
1:F:392:ALA:O	1:F:396:VAL:HG23	2.05	0.55
1:A:282:PHE:HB2	1:A:313:ILE:HB	1.88	0.55
1:A:302:LYS:N	1:A:303:PRO:HD2	2.22	0.55
1:A:570:ILE:O	1:A:573:GLU:OE2	2.24	0.55
1:A:874:GLU:OE2	1:F:203:ARG:HG3	2.07	0.55
1:B:186:VAL:HG11	1:B:216:ILE:HD11	1.87	0.55
1:B:543:SER:HA	1:B:546:ILE:HB	1.87	0.55
1:B:617:GLY:HA2	1:B:620:LYS:HZ1	1.68	0.55
1:B:696:LEU:HD22	1:B:762:PHE:CZ	2.41	0.55
1:B:792:GLU:O	1:B:798:ASN:ND2	2.37	0.55
1:B:839:LYS:HB3	1:B:878:GLU:OE1	2.06	0.55
1:C:226:ALA:O	1:C:229:ILE:HB	2.05	0.55
1:C:268:VAL:O	1:C:271:GLU:HB2	2.07	0.55
1:C:333:ARG:O	1:C:335:PHE:N	2.39	0.55
1:C:350:ALA:CA	1:C:353:ARG:HH11	2.19	0.55
1:C:738:GLN:OE1	1:C:743:GLN:HG2	2.06	0.55
1:D:166:TYR:HB2	1:D:264:ARG:NE	2.21	0.55
1:D:557:PRO:O	1:D:559:LYS:HG2	2.05	0.55
1:D:719:SER:HA	1:D:722:ILE:HD13	1.88	0.55
1:E:203:ARG:HG3	1:F:397:ASP:OD1	2.06	0.55
1:E:216:ILE:HG23	1:E:217:GLY:N	2.20	0.55
1:E:692:HIS:CD2	1:E:693:PRO:HD2	2.41	0.55
1:F:166:TYR:CE2	1:F:264:ARG:HA	2.41	0.55
1:A:625:LYS:HZ3	1:A:638:MET:HG3	1.71	0.55
1:B:251:LEU:N	1:B:264:ARG:NH1	2.46	0.55
1:B:324:ILE:N	1:B:327:LYS:HZ1	2.04	0.55
1:B:344:SER:H	1:B:347:GLN:NE2	2.05	0.55
1:B:674:GLN:HA	1:B:678:LYS:CE	2.36	0.55
1:C:221:ILE:O	1:C:223:GLU:N	2.39	0.55
1:C:268:VAL:O	1:C:272:ILE:HG12	2.06	0.55
1:C:280:VAL:HA	1:C:311:LYS:CD	2.36	0.55
1:C:334:ARG:C	1:C:335:PHE:HD1	2.10	0.55
1:C:628:ALA:HA	1:C:631:LEU:HD13	1.87	0.55
1:C:743:GLN:HB2	1:C:746:THR:OG1	2.05	0.55
1:C:751:MET:HA	1:C:755:ARG:HH12	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:THR:HG23	1:D:227:GLN:OE1	2.06	0.55
1:D:214:PRO:HG2	1:D:387:ARG:HE	1.71	0.55
1:D:265:PHE:CD2	1:D:266:LYS:N	2.75	0.55
1:D:280:VAL:HG12	1:D:281:LEU:H	1.69	0.55
1:D:281:LEU:H	1:D:312:VAL:HA	1.70	0.55
1:D:290:MET:HB3	1:D:294:LYS:HG2	1.87	0.55
1:D:569:LEU:HD12	1:D:570:ILE:HA	1.89	0.55
1:D:650:TYR:CD1	1:D:650:TYR:N	2.74	0.55
1:E:366:ARG:HB3	1:E:539:ASN:HB2	1.88	0.55
1:E:464:GLN:OE1	1:E:464:GLN:N	2.33	0.55
1:E:512:ASP:O	1:E:515:LYS:N	2.38	0.55
1:E:644:SER:H	1:E:690:LYS:HE3	1.71	0.55
1:E:732:GLU:OE2	1:E:733:PHE:CE2	2.60	0.55
1:E:785:ASP:C	1:E:789:LYS:NZ	2.58	0.55
1:E:814:LEU:HD21	1:E:878:GLU:OE2	2.06	0.55
1:E:819:TYR:HA	1:E:824:GLY:HA2	1.87	0.55
1:F:607:PRO:HD3	1:F:706:GLY:HA2	1.88	0.55
1:F:737:GLN:HG2	1:F:742:ILE:CD1	2.33	0.55
1:A:300:ILE:HG12	1:B:253:ALA:HB3	1.89	0.55
1:A:592:ASN:HB3	1:A:595:ARG:HH21	1.71	0.55
1:A:595:ARG:NH1	1:B:842:LEU:H	2.03	0.55
1:A:768:SER:OG	1:A:769:ILE:N	2.40	0.55
1:B:302:LYS:O	1:B:305:LEU:N	2.37	0.55
1:B:548:GLU:O	1:B:551:ALA:HB3	2.07	0.55
1:B:616:SER:HA	1:B:620:LYS:HB3	1.87	0.55
1:B:650:TYR:H	1:B:692:HIS:CE1	2.20	0.55
1:C:246:LEU:H	1:C:283:ILE:HA	1.72	0.55
1:D:179:ARG:HH22	1:D:230:ILE:CG2	2.20	0.55
1:D:198:ARG:HH22	1:E:406:ALA:H	1.54	0.55
1:E:186:VAL:HG13	2:E:1001:AGS:N3	2.20	0.55
1:E:351:ILE:HD13	2:E:1001:AGS:C2	2.36	0.55
1:E:366:ARG:O	1:E:367:ILE:HG13	2.06	0.55
1:E:701:GLN:HE22	1:E:709:THR:N	2.04	0.55
1:B:242:LYS:HA	1:B:243:LEU:HD23	1.87	0.55
1:B:290:MET:HG2	1:B:294:LYS:HA	1.89	0.55
1:B:320:GLU:HA	1:B:323:SER:HB2	1.87	0.55
1:B:329:GLY:O	1:B:332:GLU:N	2.40	0.55
1:B:359:TYR:CE1	1:B:362:HIS:CD2	2.95	0.55
1:B:592:ASN:O	1:B:595:ARG:N	2.40	0.55
1:B:708:ILE:HG12	1:B:717:ASP:N	2.21	0.55
1:B:761:GLU:O	1:B:765:ARG:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:427:GLU:OE2	1:C:448:ALA:HB1	2.07	0.55
1:C:708:ILE:C	1:C:716:ILE:HB	2.26	0.55
1:C:757:HIS:ND1	1:C:757:HIS:O	2.40	0.55
1:C:823:MET:HB3	1:C:827:PRO:HG3	1.89	0.55
1:D:298:ALA:C	1:D:301:LEU:HD11	2.26	0.55
1:D:346:ARG:HA	1:D:349:VAL:HB	1.88	0.55
1:D:806:LEU:O	1:D:807:THR:OG1	2.23	0.55
1:D:809:GLU:HG2	1:D:810:ALA:H	1.71	0.55
1:E:554:THR:OG1	1:E:555:GLY:N	2.40	0.55
1:E:575:ASP:O	1:E:579:GLU:OE2	2.24	0.55
1:E:621:THR:HG22	1:E:625:LYS:HD2	1.89	0.55
1:E:772:PHE:HE1	1:E:775:LEU:HD12	1.71	0.55
1:F:194:ARG:HG2	1:F:228:ARG:HH22	1.71	0.55
1:F:229:ILE:O	1:F:232:ASP:N	2.33	0.55
1:F:612:PHE:CE1	1:F:770:VAL:HG11	2.41	0.55
1:F:671:LEU:HD23	1:F:674:GLN:HB2	1.89	0.55
1:F:700:LEU:CD2	1:F:703:LEU:HD23	2.22	0.55
1:F:827:PRO:O	1:F:831:LEU:N	2.38	0.55
1:F:828:LEU:HB3	1:F:832:ILE:CD1	2.36	0.55
1:A:646:LEU:HG	1:A:691:ALA:HB1	1.89	0.55
1:A:733:PHE:HD2	1:A:750:VAL:HG22	1.71	0.55
1:A:777:ARG:NH1	1:A:816:LYS:HG3	2.21	0.55
1:A:806:LEU:HD23	1:A:855:VAL:HB	1.88	0.55
1:B:251:LEU:HD12	1:B:252:THR:H	1.71	0.55
1:B:549:THR:O	1:B:552:ARG:NH1	2.40	0.55
1:B:570:ILE:O	1:B:573:GLU:OE2	2.25	0.55
1:B:685:PHE:HZ	1:B:727:SER:HB2	1.70	0.55
1:B:803:LYS:H	1:B:853:GLU:CB	2.19	0.55
1:C:174:MET:H	1:C:242:LYS:CE	2.20	0.55
1:C:191:GLU:O	1:C:194:ARG:N	2.40	0.55
1:C:569:LEU:O	1:C:573:GLU:HB3	2.07	0.55
1:C:677:TYR:C	1:C:679:PRO:HD3	2.27	0.55
1:D:175:THR:N	1:D:223:GLU:OE2	2.39	0.55
1:D:344:SER:HB2	1:D:345:VAL:HG23	1.87	0.55
1:E:173:ASP:HA	1:E:243:LEU:HD12	1.89	0.55
1:E:176:GLU:O	1:E:179:ARG:HB3	2.07	0.55
1:E:394:ASP:O	1:E:397:ASP:HB3	2.06	0.55
1:E:652:VAL:CG1	1:E:669:GLY:HA3	2.37	0.55
1:E:692:HIS:CG	1:E:693:PRO:HD2	2.41	0.55
1:E:703:LEU:O	1:E:703:LEU:HD23	2.06	0.55
1:E:807:THR:HB	1:E:811:LYS:HZ2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:ASP:HA	1:F:244:PHE:CD2	2.42	0.55
1:F:268:VAL:O	1:F:272:ILE:HG12	2.05	0.55
1:F:280:VAL:HG22	1:F:311:LYS:N	2.19	0.55
1:F:702:MET:HB3	1:F:708:ILE:CA	2.35	0.55
1:A:258:LYS:HZ2	1:A:295:ASP:HB3	1.72	0.55
1:A:612:PHE:N	1:A:770:VAL:H	2.03	0.55
1:A:613:LEU:HD13	1:A:727:SER:H	1.72	0.55
1:B:685:PHE:CZ	1:B:727:SER:HB2	2.42	0.55
1:B:857:VAL:CG1	1:B:878:GLU:H	2.18	0.55
1:C:168:SER:OG	1:C:268:VAL:HG22	2.06	0.55
1:C:178:ALA:O	1:C:181:GLY:N	2.28	0.55
1:C:219:THR:O	1:C:223:GLU:OE1	2.25	0.55
1:C:259:GLY:O	1:C:262:GLU:HG2	2.07	0.55
1:C:488:ASN:ND2	1:C:489:LYS:NZ	2.55	0.55
1:C:710:SER:HA	1:C:716:ILE:HD11	1.88	0.55
1:C:834:ASN:HA	1:C:837:LEU:HD21	1.87	0.55
1:D:218:LYS:HD3	1:D:221:ILE:CD1	2.36	0.55
1:D:345:VAL:O	1:D:349:VAL:HG23	2.06	0.55
1:D:383:LEU:HB3	1:D:385:TYR:CE2	2.42	0.55
1:D:810:ALA:O	1:D:813:PHE:N	2.40	0.55
1:E:169:LYS:HE2	1:E:264:ARG:NE	2.22	0.55
1:E:705:ASP:H	1:E:765:ARG:HH12	1.55	0.55
1:E:795:PHE:CD2	1:E:801:HIS:ND1	2.74	0.55
1:F:770:VAL:HG12	1:F:772:PHE:CE1	2.41	0.55
1:F:783:ILE:HD13	2:F:1002:AGS:N6	2.22	0.55
1:F:785:ASP:HA	1:F:788:LEU:HB3	1.88	0.55
1:A:234:VAL:HA	1:A:238:LEU:HD12	1.88	0.55
1:A:242:LYS:O	1:A:279:ILE:HG12	2.07	0.55
1:A:776:SER:HB3	1:A:779:ALA:H	1.71	0.55
1:B:250:ALA:HB3	1:B:264:ARG:NH1	2.22	0.55
1:B:639:ILE:O	1:B:684:LEU:N	2.30	0.55
1:C:6:GLN:O	1:C:112:ALA:N	2.39	0.55
1:C:173:ASP:HA	1:C:244:PHE:HE1	1.70	0.55
1:C:199:VAL:C	1:C:202:ARG:H	2.09	0.55
1:C:302:LYS:NZ	1:C:310:LEU:O	2.39	0.55
1:C:342:GLU:HG2	1:C:343:PRO:HD2	1.88	0.55
1:C:366:ARG:NH1	1:C:473:HIS:CD2	2.75	0.55
1:D:281:LEU:HB2	1:D:312:VAL:HG12	1.89	0.55
1:D:282:PHE:O	1:D:283:ILE:HD13	2.07	0.55
1:D:336:GLN:NE2	1:D:337:LYS:H	2.04	0.55
1:D:357:PRO:HD2	1:D:358:LYS:HZ2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:580:VAL:HG22	1:D:626:LYS:HE2	1.89	0.55
1:D:651:ALA:HA	1:D:657:GLY:HA2	1.89	0.55
1:D:762:PHE:HB3	1:D:763:LEU:HD12	1.88	0.55
1:D:799:ASP:OD1	1:D:800:LYS:N	2.36	0.55
1:D:872:GLU:N	1:D:877:LEU:HD13	2.22	0.55
1:E:174:MET:O	1:E:176:GLU:N	2.39	0.55
1:E:776:SER:OG	1:E:777:ARG:HG2	2.07	0.55
1:A:541:VAL:N	1:A:545:THR:OG1	2.38	0.55
1:A:595:ARG:HH11	1:B:841:ALA:CB	2.19	0.55
1:A:613:LEU:HD22	1:A:727:SER:C	2.27	0.55
1:B:167:LEU:CD2	1:B:271:GLU:HA	2.33	0.55
1:B:234:VAL:CG1	1:B:239:GLN:HG3	2.36	0.55
1:B:759:ARG:O	1:B:763:LEU:N	2.29	0.55
1:B:782:LYS:HA	1:B:785:ASP:OD2	2.07	0.55
1:B:843:ARG:HA	1:B:846:LYS:CB	2.31	0.55
1:C:14:ILE:N	1:C:160:THR:N	2.52	0.55
1:C:281:LEU:HG	1:C:311:LYS:O	2.07	0.55
1:C:325:VAL:HA	1:C:331:PHE:HE2	1.71	0.55
1:C:564:SER:OG	1:C:565:GLU:N	2.39	0.55
1:C:638:MET:HG3	1:C:682:VAL:O	2.06	0.55
1:D:140:ILE:O	1:D:144:ALA:N	2.40	0.55
1:D:179:ARG:NH1	1:D:227:GLN:OE1	2.37	0.55
1:D:198:ARG:HD3	1:E:401:ALA:O	2.06	0.55
1:D:377:GLN:O	1:D:381:ARG:N	2.22	0.55
1:D:460:GLU:CD	1:D:463:ARG:NH1	2.61	0.55
1:D:473:HIS:HA	1:D:476:LEU:HD12	1.88	0.55
1:E:256:LYS:HZ1	1:E:264:ARG:CD	2.20	0.55
1:E:333:ARG:HH12	1:F:214:PRO:HG2	1.72	0.55
1:E:494:GLU:HG2	1:E:501:THR:HG22	1.88	0.55
1:E:576:LEU:HA	1:E:579:GLU:CG	2.29	0.55
1:E:627:VAL:O	1:E:630:PHE:N	2.40	0.55
1:E:637:MET:CE	1:E:682:VAL:HG12	2.36	0.55
1:E:668:GLY:O	1:E:671:LEU:N	2.39	0.55
1:F:605:ARG:HG2	1:F:707:ARG:N	2.21	0.55
1:F:609:SER:HB3	1:F:722:ILE:CG2	2.36	0.55
1:F:837:LEU:HA	1:F:840:LEU:HD22	1.88	0.55
1:A:822:ASP:OD2	1:F:333:ARG:NH1	2.39	0.55
1:B:197:ILE:HA	1:B:200:LEU:HD12	1.88	0.55
1:C:322:ARG:O	1:C:326:GLU:HG3	2.07	0.55
1:C:411:PRO:HA	1:C:414:LEU:HB2	1.89	0.55
1:C:417:LYS:NZ	1:C:463:ARG:HG2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:577:SER:C	1:C:580:VAL:H	2.10	0.55
1:C:593:ALA:HA	1:C:596:LEU:HB2	1.88	0.55
1:C:619:GLY:O	1:C:622:GLU:HG2	2.07	0.55
1:D:210:LEU:HD11	1:D:338:ILE:HB	1.88	0.55
1:D:296:ASP:O	1:D:298:ALA:N	2.40	0.55
1:D:530:ARG:NH2	1:D:538:GLN:H	2.02	0.55
1:D:542:ASP:O	1:D:546:ILE:N	2.31	0.55
1:D:708:ILE:CD1	1:D:716:ILE:HB	2.37	0.55
1:E:332:GLU:C	1:E:335:PHE:H	2.10	0.55
1:E:408:ASP:CB	1:E:411:PRO:HG3	2.34	0.55
1:E:436:ASP:HB2	1:E:441:THR:OG1	2.07	0.55
1:E:654:LYS:HD3	1:E:698:VAL:HG11	1.89	0.55
1:F:563:GLU:CG	1:F:568:LYS:HB3	2.36	0.55
1:F:611:LEU:HA	1:F:724:ILE:HB	1.89	0.55
1:F:809:GLU:H	1:F:809:GLU:CD	2.08	0.55
1:F:841:ALA:O	1:F:845:LEU:HG	2.07	0.55
1:A:173:ASP:OD1	1:A:175:THR:N	2.37	0.54
1:A:210:LEU:HB3	1:A:338:ILE:C	2.27	0.54
1:A:771:ILE:HG22	1:A:772:PHE:C	2.27	0.54
1:B:247:ASP:OD1	1:B:248:LEU:HG	2.07	0.54
1:B:374:THR:HA	1:B:377:GLN:OE1	2.07	0.54
1:B:381:ARG:NH2	1:B:559:LYS:HB3	2.22	0.54
1:B:590:VAL:HG13	1:B:610:PHE:HD2	1.72	0.54
1:C:211:ILE:HD13	1:C:316:THR:H	1.71	0.54
1:C:332:GLU:O	1:C:335:PHE:HB2	2.06	0.54
1:C:345:VAL:O	1:C:348:THR:N	2.40	0.54
1:C:372:LEU:HA	1:C:542:ASP:CB	2.37	0.54
1:C:639:ILE:O	1:C:640:ARG:HD2	2.06	0.54
1:C:731:ALA:O	1:C:734:ILE:HG22	2.07	0.54
1:D:351:ILE:O	1:D:354:GLY:N	2.40	0.54
1:D:559:LYS:HZ3	1:D:560:LYS:NZ	2.02	0.54
1:D:737:GLN:H	1:D:774:LYS:CE	2.20	0.54
1:D:752:GLY:O	1:D:756:GLN:HG2	2.07	0.54
1:D:876:CYS:O	1:D:877:LEU:HB2	2.05	0.54
1:E:358:LYS:HZ2	1:E:359:TYR:CA	2.19	0.54
1:E:581:VAL:HG12	1:E:582:GLY:N	2.22	0.54
1:E:583:GLN:C	1:E:585:ASP:OD1	2.46	0.54
1:E:674:GLN:OE1	1:E:677:TYR:HB3	2.07	0.54
1:F:189:ARG:HH22	1:F:342:GLU:C	2.10	0.54
1:F:302:LYS:HE2	1:F:305:LEU:HD21	1.89	0.54
1:F:331:PHE:CB	1:F:334:ARG:HG3	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:543:SER:OG	1:F:546:ILE:HD12	2.07	0.54
1:F:783:ILE:HD11	1:F:787:ARG:NH1	2.22	0.54
1:F:879:VAL:HG12	1:F:880:LEU:N	2.15	0.54
1:A:283:ILE:HG23	1:A:288:MET:HB2	1.89	0.54
1:A:873:ALA:HB3	1:F:201:ALA:O	2.08	0.54
1:B:174:MET:HG2	1:B:244:PHE:HA	1.89	0.54
1:B:177:GLN:O	1:B:182:LYS:HB2	2.06	0.54
1:B:214:PRO:O	1:B:218:LYS:N	2.40	0.54
1:C:333:ARG:C	1:C:335:PHE:N	2.61	0.54
1:D:651:ALA:CA	1:D:654:LYS:HG2	2.37	0.54
1:E:202:ARG:NH1	1:E:336:GLN:NE2	2.54	0.54
1:E:214:PRO:C	1:E:387:ARG:NH1	2.60	0.54
1:E:218:LYS:HZ1	1:E:387:ARG:NH1	2.04	0.54
1:E:322:ARG:O	1:E:326:GLU:N	2.20	0.54
1:E:410:LYS:C	1:E:414:LEU:HG	2.28	0.54
1:E:448:ALA:O	1:E:451:LYS:HG2	2.07	0.54
1:F:179:ARG:HA	1:F:230:ILE:HG21	1.88	0.54
1:F:199:VAL:HG13	1:F:206:SER:O	2.07	0.54
1:F:382:TYR:CD2	1:F:560:LYS:HE3	2.43	0.54
1:F:569:LEU:O	1:F:572:MET:HB3	2.07	0.54
1:F:835:GLU:OE1	1:F:835:GLU:N	2.40	0.54
1:A:196:THR:HG23	1:A:199:VAL:HB	1.89	0.54
1:A:282:PHE:HA	1:A:312:VAL:HG23	1.89	0.54
1:B:303:PRO:O	1:B:307:ARG:N	2.32	0.54
1:B:337:LYS:HG3	1:B:338:ILE:O	2.06	0.54
1:B:613:LEU:O	1:B:772:PHE:N	2.41	0.54
1:B:742:ILE:HG22	1:B:743:GLN:N	2.23	0.54
1:B:764:ASN:ND2	1:B:765:ARG:NH1	2.55	0.54
1:C:592:ASN:HA	1:C:595:ARG:HH11	1.72	0.54
1:C:616:SER:OG	1:C:617:GLY:N	2.40	0.54
1:C:739:GLY:H	1:C:774:LYS:HE3	1.72	0.54
1:D:285:GLU:HB3	1:D:288:MET:H	1.73	0.54
1:D:591:SER:HA	1:D:594:VAL:HB	1.90	0.54
1:D:650:TYR:CD2	1:D:654:LYS:HD2	2.43	0.54
1:D:775:LEU:HB2	1:D:780:ILE:HD11	1.89	0.54
1:D:800:LYS:HZ3	1:D:801:HIS:CE1	2.25	0.54
1:E:304:ALA:O	1:E:308:GLY:N	2.26	0.54
1:E:322:ARG:HG3	1:E:323:SER:H	1.71	0.54
1:E:637:MET:HG3	1:E:682:VAL:HG12	1.88	0.54
1:E:802:TYR:HB3	1:E:852:LYS:O	2.07	0.54
1:F:206:SER:HG	1:F:335:PHE:HE1	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:605:ARG:HD2	1:F:707:ARG:CB	2.38	0.54
1:F:761:GLU:OE2	1:F:765:ARG:NH2	2.40	0.54
1:F:833:GLN:HG3	1:F:834:ASN:ND2	2.22	0.54
1:A:382:TYR:HD2	1:A:383:LEU:HB2	1.71	0.54
1:A:643:CYS:HB3	1:A:685:PHE:HB3	1.90	0.54
1:A:807:THR:O	1:A:811:LYS:HG3	2.07	0.54
1:B:302:LYS:HD2	1:B:305:LEU:HB2	1.89	0.54
1:B:358:LYS:O	1:B:362:HIS:N	2.30	0.54
1:B:367:ILE:N	1:B:539:ASN:HB2	2.22	0.54
1:B:392:ALA:O	1:B:396:VAL:HG23	2.06	0.54
1:B:591:SER:O	1:B:594:VAL:HB	2.07	0.54
1:B:646:LEU:CD1	1:B:690:LYS:H	2.17	0.54
1:B:835:GLU:HA	1:B:838:ASN:ND2	2.23	0.54
1:C:176:GLU:HA	1:C:179:ARG:HB2	1.88	0.54
1:C:191:GLU:CD	1:C:194:ARG:HB2	2.27	0.54
1:C:202:ARG:O	1:C:206:SER:HA	2.07	0.54
1:C:333:ARG:HH11	1:C:334:ARG:HG2	1.73	0.54
1:C:404:ALA:O	1:C:409:SER:N	2.31	0.54
1:C:613:LEU:HG	1:C:772:PHE:N	2.21	0.54
1:C:816:LYS:NZ	1:C:817:TYR:CZ	2.75	0.54
1:D:391:SER:O	1:D:394:ASP:HB2	2.07	0.54
1:D:617:GLY:C	1:D:826:ARG:NH1	2.60	0.54
1:D:826:ARG:N	1:D:827:PRO:HD2	2.22	0.54
1:E:166:TYR:HB3	1:E:169:LYS:HG3	1.89	0.54
1:E:291:GLY:O	1:E:292:ASN:ND2	2.41	0.54
1:E:366:ARG:NH1	1:E:368:LEU:N	2.56	0.54
1:E:611:LEU:HB2	1:E:725:MET:CG	2.37	0.54
1:B:224:GLY:O	1:B:228:ARG:N	2.30	0.54
1:B:332:GLU:HA	1:B:335:PHE:CB	2.37	0.54
1:B:687:GLU:OE1	1:B:727:SER:OG	2.20	0.54
1:B:814:LEU:O	1:B:817:TYR:N	2.40	0.54
1:B:858:VAL:O	1:B:875:GLU:HG3	2.08	0.54
1:C:190:GLU:O	1:C:194:ARG:HG3	2.06	0.54
1:C:259:GLY:O	1:C:263:GLU:OE2	2.26	0.54
1:C:368:LEU:HD22	1:C:541:VAL:HA	1.88	0.54
1:C:378:LEU:O	1:C:381:ARG:HB3	2.08	0.54
1:C:583:GLN:HG2	1:C:772:PHE:C	2.28	0.54
1:D:193:ILE:HG23	1:D:222:ILE:HG23	1.90	0.54
1:E:195:SER:N	1:E:198:ARG:HH11	2.06	0.54
1:E:228:ARG:HH12	1:E:232:ASP:C	2.11	0.54
1:E:230:ILE:HG22	1:E:495:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:573:GLU:CD	1:E:573:GLU:H	2.11	0.54
1:E:611:LEU:HD12	1:E:612:PHE:N	2.23	0.54
1:E:644:SER:HA	1:E:691:ALA:N	2.23	0.54
1:E:708:ILE:HG23	1:E:716:ILE:O	2.07	0.54
1:F:207:ASN:HB2	1:F:335:PHE:CD2	2.42	0.54
1:F:608:ALA:H	1:F:722:ILE:HD12	1.73	0.54
1:A:258:LYS:NZ	1:A:295:ASP:HB3	2.22	0.54
1:A:345:VAL:O	1:A:349:VAL:HG23	2.08	0.54
1:A:572:MET:O	1:A:576:LEU:HG	2.08	0.54
1:A:632:PHE:CD2	1:A:637:MET:HG2	2.43	0.54
1:A:820:SER:HG	1:F:307:ARG:HH22	1.56	0.54
1:B:248:LEU:O	1:B:264:ARG:NH2	2.41	0.54
1:B:617:GLY:H	1:B:620:LYS:CD	2.21	0.54
1:B:618:SER:O	1:B:826:ARG:NE	2.41	0.54
1:B:645:GLU:O	1:B:646:LEU:HD23	2.06	0.54
1:B:792:GLU:OE2	1:B:795:PHE:CD2	2.60	0.54
1:B:843:ARG:NH1	1:B:848:GLU:CD	2.60	0.54
1:B:843:ARG:N	1:B:846:LYS:HZ3	2.04	0.54
1:C:172:ILE:O	1:C:244:PHE:HD1	1.90	0.54
1:C:189:ARG:NH2	1:C:342:GLU:HA	2.16	0.54
1:C:201:ALA:HB2	1:C:238:LEU:HD11	1.88	0.54
1:C:366:ARG:HH12	1:C:538:GLN:CB	2.17	0.54
1:C:534:ASN:HB3	1:C:537:ILE:CA	2.38	0.54
1:C:776:SER:OG	1:C:777:ARG:N	2.40	0.54
1:C:857:VAL:CG1	1:C:879:VAL:H	2.20	0.54
1:D:213:GLU:CD	1:D:387:ARG:HD2	2.28	0.54
1:D:352:LEU:HA	1:D:355:LEU:HD21	1.90	0.54
1:D:396:VAL:O	1:D:399:SER:HB2	2.08	0.54
1:D:401:ALA:O	1:D:405:VAL:HG23	2.07	0.54
1:D:569:LEU:HD12	1:D:573:GLU:OE2	2.08	0.54
1:E:332:GLU:CD	1:E:337:LYS:NZ	2.60	0.54
1:E:358:LYS:NZ	1:E:359:TYR:CA	2.70	0.54
1:E:392:ALA:O	1:E:395:LEU:N	2.41	0.54
1:E:473:HIS:HA	1:E:521:GLU:OE2	2.08	0.54
1:E:616:SER:HA	2:E:1002:AGS:O2B	2.07	0.54
1:E:620:LYS:NZ	2:E:1002:AGS:O3A	2.41	0.54
1:E:759:ARG:HB3	1:E:761:GLU:OE2	2.08	0.54
1:E:837:LEU:HA	1:E:840:LEU:HD13	1.90	0.54
1:E:856:ASN:ND2	1:E:880:LEU:O	2.40	0.54
1:F:197:ILE:HG12	1:F:228:ARG:NH1	2.22	0.54
1:F:212:GLY:H	1:F:218:LYS:HD3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:LEU:O	1:F:372:LEU:HD13	2.07	0.54
1:F:649:LYS:HA	1:F:693:PRO:HD2	1.89	0.54
1:A:175:THR:HA	1:A:243:LEU:HG	1.88	0.54
1:A:563:GLU:HB3	1:A:568:LYS:HE3	1.89	0.54
1:A:601:LEU:HD11	1:B:841:ALA:HB2	1.88	0.54
1:A:751:MET:HG2	1:A:755:ARG:NH1	2.23	0.54
1:B:374:THR:O	1:B:378:LEU:HG	2.08	0.54
1:B:650:TYR:CD1	1:B:652:VAL:HG22	2.43	0.54
1:C:171:ALA:HB1	1:C:244:PHE:CD1	2.43	0.54
1:C:190:GLU:HB2	1:C:194:ARG:NH1	2.23	0.54
1:C:197:ILE:O	1:C:200:LEU:HB2	2.07	0.54
1:C:247:ASP:HB2	1:C:248:LEU:HD13	1.90	0.54
1:C:342:GLU:OE2	1:C:389:PRO:HD3	2.07	0.54
1:C:614:GLY:CA	1:C:728:ALA:HA	2.31	0.54
1:C:639:ILE:HG13	1:C:678:LYS:HZ3	1.72	0.54
1:C:839:LYS:HZ1	1:C:880:LEU:N	2.06	0.54
1:D:192:GLU:HG2	1:D:193:ILE:N	2.22	0.54
1:D:333:ARG:HH22	2:E:1001:AGS:PB	2.30	0.54
1:D:421:LEU:HD22	1:D:459:LEU:HD11	1.90	0.54
1:D:463:ARG:HB2	1:D:463:ARG:CZ	2.38	0.54
1:D:586:ALA:O	1:D:590:VAL:HG23	2.08	0.54
1:D:810:ALA:C	1:D:814:LEU:HG	2.28	0.54
1:E:496:ARG:HG3	1:E:499:THR:OG1	2.07	0.54
1:E:612:PHE:C	1:E:771:ILE:HG13	2.28	0.54
1:E:634:ASP:HB3	1:E:637:MET:H	1.73	0.54
1:E:703:LEU:HB3	1:E:765:ARG:HD2	1.90	0.54
1:F:859:LEU:HB2	1:F:876:CYS:HB3	1.88	0.54
1:A:349:VAL:O	1:A:352:LEU:HD13	2.08	0.54
1:A:379:ALA:HA	1:A:382:TYR:CE1	2.42	0.54
1:A:624:ALA:O	1:A:628:ALA:N	2.41	0.54
1:B:544:ASP:CG	1:B:545:THR:H	2.11	0.54
1:C:506:ARG:NE	1:D:430:ALA:O	2.40	0.54
1:C:565:GLU:CA	1:C:568:LYS:HB3	2.35	0.54
1:C:650:TYR:CE1	1:C:654:LYS:NZ	2.64	0.54
1:C:779:ALA:HB1	1:C:783:ILE:HD12	1.89	0.54
1:D:203:ARG:NH1	1:E:363:HIS:NE2	2.56	0.54
1:D:272:ILE:HA	1:D:276:LYS:HZ2	1.73	0.54
1:D:362:HIS:CD2	1:D:363:HIS:CE1	2.96	0.54
1:D:364:GLY:HA2	1:D:473:HIS:HE2	1.72	0.54
1:D:424:ILE:O	1:D:427:GLU:HB3	2.08	0.54
1:D:825:ALA:O	1:D:828:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:169:LYS:HZ1	1:E:267:GLY:CA	2.17	0.54
1:E:366:ARG:O	1:E:539:ASN:HA	2.08	0.54
1:E:557:PRO:O	1:E:560:LYS:N	2.40	0.54
1:F:332:GLU:OE1	1:F:332:GLU:HA	2.08	0.54
1:F:669:GLY:O	1:F:672:THR:HB	2.08	0.54
1:A:170:TYR:CE1	1:A:264:ARG:HG3	2.43	0.54
1:A:217:GLY:C	1:A:221:ILE:HD12	2.27	0.54
1:A:259:GLY:N	1:A:261:PHE:HB2	2.23	0.54
1:B:234:VAL:HG11	1:B:238:LEU:N	2.22	0.54
1:B:403:VAL:O	1:B:407:ARG:N	2.22	0.54
1:B:625:LYS:C	1:B:635:GLU:OE2	2.46	0.54
1:C:203:ARG:CG	1:C:204:ILE:H	2.19	0.54
1:C:209:CYS:HB2	1:C:335:PHE:HA	1.90	0.54
1:C:237:ILE:HD13	1:D:362:HIS:NE2	2.22	0.54
1:C:505:LEU:HD12	1:C:508:PHE:HB2	1.88	0.54
1:D:378:LEU:O	1:D:381:ARG:N	2.41	0.54
1:D:390:ASP:HA	1:D:393:LEU:HD13	1.90	0.54
1:D:606:GLN:C	1:D:719:SER:HB3	2.28	0.54
1:D:689:GLU:CB	1:D:729:LEU:HD12	2.38	0.54
1:D:779:ALA:C	1:D:782:LYS:NZ	2.56	0.54
1:D:820:SER:O	1:D:822:ASP:N	2.41	0.54
1:E:195:SER:O	1:E:198:ARG:HB2	2.08	0.54
1:E:703:LEU:HD22	1:E:765:ARG:CD	2.37	0.54
1:E:826:ARG:O	1:E:829:ASN:HB2	2.08	0.54
1:F:210:LEU:HD11	1:F:340:VAL:HG22	1.88	0.54
1:F:638:MET:N	1:F:682:VAL:HG12	2.19	0.54
1:F:701:GLN:OE1	1:F:709:THR:CG2	2.55	0.54
1:F:781:HIS:O	1:F:784:VAL:HG22	2.07	0.54
1:F:808:GLN:O	1:F:811:LYS:N	2.41	0.54
1:A:227:GLN:O	1:A:231:ASP:N	2.34	0.54
1:A:583:GLN:HE21	1:A:771:ILE:C	2.11	0.54
1:A:702:MET:SD	1:A:708:ILE:HA	2.48	0.54
1:B:207:ASN:HB2	1:B:335:PHE:CD1	2.43	0.54
1:B:365:VAL:HG13	1:B:407:ARG:CZ	2.38	0.54
1:B:648:GLU:HA	1:B:691:ALA:O	2.08	0.54
1:B:654:LYS:NZ	1:B:694:ASP:H	2.05	0.54
1:B:826:ARG:HB2	1:B:827:PRO:HD3	1.89	0.54
1:B:849:ILE:HG13	1:B:882:ASN:HA	1.89	0.54
1:C:194:ARG:O	1:C:198:ARG:HG3	2.07	0.54
1:C:209:CYS:HB2	1:C:336:GLN:OE1	2.08	0.54
1:C:270:LYS:HA	1:C:273:GLU:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:741:LYS:HG2	1:C:742:ILE:H	1.72	0.54
1:C:846:LYS:HZ3	1:C:882:ASN:HD21	1.55	0.54
1:D:248:LEU:CA	1:D:251:LEU:HG	2.37	0.54
1:D:510:ILE:HD12	1:E:426:VAL:HG21	1.90	0.54
1:D:544:ASP:O	1:D:547:SER:HB2	2.08	0.54
1:D:645:GLU:H	1:D:645:GLU:CD	2.11	0.54
1:E:218:LYS:HE2	2:E:1001:AGS:S1G	2.47	0.54
1:E:361:ILE:HD13	1:E:481:LYS:HA	1.89	0.54
1:E:454:SER:HA	1:E:457:GLU:OE1	2.08	0.54
1:E:491:LEU:HD22	1:E:494:GLU:OE2	2.07	0.54
1:E:702:MET:O	1:E:707:ARG:NE	2.40	0.54
1:F:839:LYS:CA	1:F:842:LEU:HB3	2.32	0.54
1:A:383:LEU:N	1:A:384:PRO:HD3	2.23	0.53
1:A:762:PHE:O	1:A:766:ILE:HG13	2.08	0.53
1:A:776:SER:O	1:A:780:ILE:HG23	2.08	0.53
1:B:337:LYS:CG	1:B:338:ILE:H	2.22	0.53
1:B:616:SER:HB3	1:B:620:LYS:HD3	1.90	0.53
1:B:643:CYS:C	1:B:645:GLU:N	2.59	0.53
1:B:759:ARG:HG3	1:B:761:GLU:OE1	2.09	0.53
1:C:417:LYS:HZ1	1:C:463:ARG:HG3	1.73	0.53
1:C:693:PRO:O	1:C:696:LEU:HB2	2.08	0.53
1:D:198:ARG:HH11	1:E:404:ALA:N	2.05	0.53
1:D:262:GLU:HB2	1:D:298:ALA:CB	2.34	0.53
1:D:272:ILE:O	1:D:276:LYS:HB2	2.08	0.53
1:D:459:LEU:C	1:D:463:ARG:HH12	2.11	0.53
1:D:729:LEU:O	1:D:729:LEU:HD23	2.08	0.53
1:E:189:ARG:HE	1:E:192:GLU:CD	2.04	0.53
1:E:297:ALA:O	1:E:300:ILE:HB	2.07	0.53
1:E:322:ARG:O	1:E:326:GLU:HG3	2.08	0.53
1:E:383:LEU:HD21	1:E:385:TYR:CD1	2.43	0.53
1:E:826:ARG:HH21	2:E:1002:AGS:H1'	1.73	0.53
1:F:620:LYS:HD2	2:F:1002:AGS:H4'	1.90	0.53
1:F:640:ARG:NH2	1:F:641:VAL:O	2.41	0.53
1:F:714:LYS:O	1:F:716:ILE:HG12	2.07	0.53
1:A:274:GLU:CB	1:A:276:LYS:HZ2	2.20	0.53
1:B:280:VAL:HG12	1:B:310:LEU:CA	2.38	0.53
1:B:353:ARG:NH1	1:B:373:VAL:N	2.56	0.53
1:B:548:GLU:H	1:B:560:LYS:NZ	2.03	0.53
1:B:843:ARG:N	1:B:846:LYS:NZ	2.57	0.53
1:C:175:THR:HA	1:C:230:ILE:HD12	1.90	0.53
1:C:189:ARG:O	1:C:192:GLU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:249:ALA:HB3	1:C:251:LEU:HB3	1.91	0.53
1:C:266:LYS:HA	1:C:269:LEU:CD1	2.37	0.53
1:C:349:VAL:HG12	1:C:353:ARG:HG3	1.89	0.53
1:C:504:ASP:OD1	1:D:433:ARG:NH2	2.38	0.53
1:D:422:GLN:O	1:D:426:VAL:N	2.39	0.53
1:D:595:ARG:HB2	1:E:838:ASN:OD1	2.07	0.53
1:D:736:SER:N	1:D:774:LYS:HZ1	2.05	0.53
1:E:225:VAL:HG12	1:E:229:ILE:HD11	1.89	0.53
1:E:281:LEU:HD23	1:E:282:PHE:H	1.70	0.53
1:E:372:LEU:O	1:E:375:ALA:HB3	2.07	0.53
1:F:615:LEU:HB2	1:F:772:PHE:CE1	2.43	0.53
1:F:700:LEU:HD21	1:F:762:PHE:CD1	2.43	0.53
1:B:669:GLY:C	1:B:671:LEU:HG	2.28	0.53
1:B:751:MET:O	1:B:755:ARG:NH1	2.41	0.53
1:C:17:LEU:O	1:C:21:LEU:N	2.36	0.53
1:C:208:PRO:HD3	1:C:313:ILE:HG12	1.91	0.53
1:C:599:SER:HB3	1:C:602:ALA:HB2	1.89	0.53
1:C:695:VAL:HA	1:C:698:VAL:HB	1.90	0.53
1:C:837:LEU:HA	1:C:840:LEU:CB	2.38	0.53
1:D:328:ASP:OD2	1:D:330:ALA:HB3	2.08	0.53
1:D:482:LYS:O	1:D:485:GLU:HB2	2.07	0.53
1:D:585:ASP:HA	1:D:588:LYS:NZ	2.23	0.53
2:D:1001:AGS:H8	2:D:1001:AGS:O1A	2.08	0.53
1:E:169:LYS:CE	1:E:264:ARG:HB3	2.37	0.53
1:E:408:ASP:OD2	1:E:411:PRO:HG3	2.07	0.53
1:E:641:VAL:N	1:E:684:LEU:HD22	2.22	0.53
1:E:683:LEU:C	1:E:723:VAL:HG23	2.28	0.53
1:F:170:TYR:HD1	1:F:264:ARG:HH21	1.56	0.53
1:F:347:GLN:OE1	1:F:347:GLN:N	2.41	0.53
1:F:612:PHE:HE2	1:F:614:GLY:HA2	1.72	0.53
1:F:808:GLN:HA	1:F:811:LYS:NZ	2.24	0.53
1:A:173:ASP:OD1	1:A:174:MET:N	2.42	0.53
1:A:353:ARG:C	1:A:360:GLU:OE2	2.46	0.53
1:A:642:ASP:OD2	1:A:645:GLU:HB3	2.08	0.53
1:B:391:SER:O	1:B:395:LEU:HG	2.08	0.53
1:B:630:PHE:CE2	1:B:631:LEU:HD23	2.43	0.53
1:B:680:TYR:HA	1:B:721:CYS:SG	2.48	0.53
1:B:693:PRO:O	1:B:696:LEU:HG	2.08	0.53
1:B:740:SER:CB	1:B:773:ASN:HB2	2.39	0.53
1:B:843:ARG:NE	1:B:846:LYS:HE2	2.24	0.53
1:C:169:LYS:NZ	1:C:264:ARG:HB2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:282:PHE:CE1	1:C:314:GLY:HA2	2.44	0.53
1:C:392:ALA:O	1:C:393:LEU:C	2.46	0.53
1:C:566:ASN:O	1:C:570:ILE:HG12	2.08	0.53
1:C:716:ILE:HG22	1:C:717:ASP:N	2.24	0.53
1:C:771:ILE:HB	1:C:772:PHE:O	2.09	0.53
1:C:788:LEU:O	1:C:792:GLU:N	2.38	0.53
1:D:189:ARG:O	1:D:192:GLU:OE2	2.26	0.53
1:D:218:LYS:HA	1:D:221:ILE:HD12	1.90	0.53
1:D:459:LEU:C	1:D:463:ARG:NH1	2.62	0.53
1:D:824:GLY:O	1:D:828:LEU:HD11	2.08	0.53
1:D:842:LEU:HD12	1:D:846:LYS:HZ2	1.73	0.53
1:E:175:THR:HG22	1:E:230:ILE:HD11	1.89	0.53
1:E:247:ASP:OD2	1:E:249:ALA:HB3	2.09	0.53
1:E:602:ALA:O	1:E:606:GLN:HB2	2.09	0.53
1:E:782:LYS:O	1:E:784:VAL:N	2.42	0.53
1:E:836:ILE:O	1:E:839:LYS:HB2	2.08	0.53
1:F:200:LEU:HD22	1:F:238:LEU:HB2	1.91	0.53
1:F:218:LYS:HB2	2:F:1001:AGS:S1G	2.47	0.53
1:F:620:LYS:NZ	2:F:1002:AGS:PG	2.82	0.53
1:F:704:ASP:CB	1:F:765:ARG:NH1	2.42	0.53
1:F:777:ARG:HG3	1:F:778:LYS:N	2.23	0.53
1:A:708:ILE:H	1:A:717:ASP:N	2.07	0.53
1:A:733:PHE:O	1:A:736:SER:OG	2.25	0.53
1:B:207:ASN:HA	1:B:311:LYS:HD2	1.90	0.53
1:B:617:GLY:H	1:B:620:LYS:NZ	2.07	0.53
1:C:200:LEU:HD22	1:C:313:ILE:HD13	1.91	0.53
1:C:229:ILE:HA	1:C:234:VAL:HG22	1.90	0.53
1:C:417:LYS:NZ	1:C:463:ARG:CG	2.71	0.53
1:C:655:LEU:HA	1:C:668:GLY:O	2.09	0.53
1:C:796:GLU:OE2	1:C:797:GLN:HB2	2.09	0.53
1:D:247:ASP:OD1	1:D:283:ILE:HA	2.08	0.53
1:D:321:TYR:CD1	1:D:321:TYR:CA	2.92	0.53
1:D:461:PRO:HB2	1:D:465:ARG:HH21	1.73	0.53
1:D:630:PHE:CE2	1:D:631:LEU:HA	2.44	0.53
1:E:274:GLU:C	1:E:276:LYS:H	2.12	0.53
1:E:522:ASP:O	1:E:526:GLU:HG2	2.08	0.53
1:F:166:TYR:CE2	1:F:264:ARG:HD2	2.43	0.53
1:F:285:GLU:CB	1:F:288:MET:H	2.04	0.53
1:F:713:GLY:O	1:F:714:LYS:CB	2.55	0.53
1:F:761:GLU:OE2	1:F:765:ARG:NH1	2.41	0.53
1:A:205:LYS:HD3	1:B:397:ASP:OD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:THR:HA	1:A:255:ALA:HB3	1.89	0.53
1:A:349:VAL:HA	1:A:352:LEU:HD13	1.91	0.53
1:A:816:LYS:HA	1:A:819:TYR:CE2	2.43	0.53
1:A:858:VAL:HG12	1:A:859:LEU:N	2.24	0.53
1:B:185:PRO:HB3	1:B:227:GLN:OE1	2.08	0.53
1:B:689:GLU:OE2	1:B:729:LEU:HD13	2.08	0.53
1:C:545:THR:O	1:C:548:GLU:OE2	2.26	0.53
1:C:838:ASN:OD1	1:C:839:LYS:HG2	2.08	0.53
1:D:184:ASP:O	1:D:186:VAL:N	2.41	0.53
1:D:307:ARG:HG3	1:D:308:GLY:H	1.74	0.53
1:D:321:TYR:CD1	1:D:321:TYR:CB	2.79	0.53
1:D:393:LEU:HD21	2:D:1001:AGS:H1'	1.90	0.53
1:D:516:GLN:O	1:D:520:LEU:N	2.22	0.53
1:D:879:VAL:O	1:D:880:LEU:HG	2.09	0.53
1:E:285:GLU:O	1:E:285:GLU:HG2	2.07	0.53
1:E:381:ARG:HA	1:E:680:TYR:OH	2.09	0.53
1:E:597:SER:OG	1:E:598:ARG:HG2	2.09	0.53
1:E:745:SER:N	1:E:747:LYS:HZ1	2.06	0.53
1:F:176:GLU:HG2	1:F:177:GLN:N	2.24	0.53
1:F:352:LEU:O	1:F:356:GLN:N	2.41	0.53
1:F:638:MET:HE1	1:F:671:LEU:HD11	1.91	0.53
1:F:844:ILE:HA	1:F:847:ASN:OD1	2.08	0.53
1:A:759:ARG:O	1:A:762:PHE:HB3	2.09	0.53
1:A:830:ARG:HH22	1:F:275:SER:N	1.95	0.53
1:A:858:VAL:O	1:A:877:LEU:N	2.42	0.53
1:B:112:ALA:O	1:B:116:ILE:N	2.24	0.53
1:B:174:MET:SD	1:B:244:PHE:HA	2.49	0.53
1:C:296:ASP:HA	1:C:299:ASN:CG	2.29	0.53
1:C:345:VAL:O	1:C:349:VAL:HG23	2.09	0.53
1:C:407:ARG:O	1:C:410:LYS:N	2.37	0.53
1:C:629:GLY:O	1:C:633:ASN:ND2	2.41	0.53
1:C:692:HIS:HE1	1:C:694:ASP:CG	2.12	0.53
1:C:788:LEU:O	1:C:789:LYS:C	2.46	0.53
1:D:186:VAL:HB	2:D:1001:AGS:C5	2.38	0.53
1:D:198:ARG:NH2	1:E:406:ALA:N	2.56	0.53
1:D:229:ILE:HG23	1:D:234:VAL:HB	1.90	0.53
1:D:317:THR:C	1:D:321:TYR:CG	2.67	0.53
1:D:395:LEU:O	1:D:399:SER:N	2.26	0.53
1:D:483:LEU:HD11	1:D:487:GLU:HB2	1.90	0.53
1:D:570:ILE:CG1	1:D:595:ARG:HH12	2.21	0.53
1:D:584:MET:C	1:D:588:LYS:HZ3	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:619:GLY:O	1:D:623:LEU:HD13	2.08	0.53
1:D:847:ASN:HB3	1:D:850:LYS:CD	2.39	0.53
1:E:249:ALA:HA	1:E:252:THR:HG23	1.91	0.53
1:E:428:ILE:HG12	1:E:449:ARG:HG2	1.90	0.53
1:E:457:GLU:O	1:E:460:GLU:N	2.38	0.53
1:E:541:VAL:HG12	1:E:544:ASP:CB	2.39	0.53
1:E:650:TYR:CE1	1:E:656:LEU:HD11	2.43	0.53
1:F:170:TYR:OH	1:F:253:ALA:O	2.27	0.53
1:F:286:ILE:HD13	1:F:322:ARG:HE	1.70	0.53
1:F:622:GLU:CD	2:F:1002:AGS:H8	2.29	0.53
1:F:637:MET:HB3	1:F:682:VAL:H	1.72	0.53
1:F:810:ALA:O	1:F:814:LEU:HG	2.09	0.53
1:A:195:SER:O	1:A:199:VAL:N	2.42	0.53
1:A:208:PRO:HB3	1:A:338:ILE:HD12	1.91	0.53
1:A:682:VAL:HG12	1:A:683:LEU:N	2.23	0.53
1:A:777:ARG:NH1	1:A:816:LYS:N	2.52	0.53
1:B:183:LEU:HG	1:B:184:ASP:N	2.23	0.53
1:B:193:ILE:O	1:B:196:THR:N	2.42	0.53
1:B:259:GLY:HA2	1:B:261:PHE:CZ	2.43	0.53
1:B:317:THR:O	1:B:320:GLU:OE2	2.27	0.53
1:B:323:SER:HB3	1:B:327:LYS:NZ	2.23	0.53
1:B:374:THR:C	1:B:378:LEU:HG	2.29	0.53
1:B:384:PRO:HD2	1:B:386:ARG:HG2	1.91	0.53
1:C:176:GLU:HA	1:C:179:ARG:CB	2.38	0.53
1:C:494:GLU:O	1:C:497:TYR:N	2.40	0.53
1:C:841:ALA:HA	1:C:844:ILE:HB	1.90	0.53
1:D:202:ARG:HG3	1:D:206:SER:HA	1.91	0.53
1:D:217:GLY:N	2:D:1001:AGS:PB	2.82	0.53
1:D:218:LYS:H	2:D:1001:AGS:PB	2.31	0.53
1:D:328:ASP:CG	1:D:331:PHE:H	2.12	0.53
1:D:380:LYS:HZ1	1:D:381:ARG:N	2.06	0.53
1:E:216:ILE:CD1	1:E:387:ARG:HB2	2.38	0.53
1:E:365:VAL:CG1	1:E:538:GLN:HB2	2.37	0.53
1:E:378:LEU:HB3	1:E:382:TYR:CD2	2.44	0.53
1:E:470:LYS:O	1:E:473:HIS:HB2	2.08	0.53
1:F:211:ILE:HG21	1:F:318:ASN:CG	2.28	0.53
1:F:730:GLY:O	1:F:733:PHE:N	2.41	0.53
1:A:296:ASP:O	1:A:301:LEU:N	2.41	0.53
1:A:587:ILE:HA	1:A:590:VAL:HB	1.91	0.53
1:A:660:ALA:HB2	1:A:667:GLU:OE2	2.08	0.53
1:A:805:ASN:HB3	1:A:854:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:SER:CA	1:B:198:ARG:NH1	2.72	0.53
1:B:573:GLU:OE1	1:B:595:ARG:NH1	2.41	0.53
1:B:580:VAL:HG22	1:B:622:GLU:HG2	1.91	0.53
1:B:583:GLN:HE21	1:B:773:ASN:HB3	1.74	0.53
1:C:350:ALA:HA	1:C:353:ARG:HH11	1.74	0.53
1:C:351:ILE:HD13	2:C:1001:AGS:N7	2.24	0.53
1:C:449:ARG:HA	1:C:452:GLU:HB3	1.91	0.53
1:C:710:SER:OG	1:C:713:GLY:N	2.42	0.53
1:C:809:GLU:HA	1:C:812:ASP:OD2	2.09	0.53
1:D:176:GLU:OE1	1:D:179:ARG:HG3	2.09	0.53
1:D:372:LEU:O	1:D:375:ALA:HB3	2.09	0.53
1:E:260:ASP:HA	1:E:263:GLU:HB2	1.91	0.53
1:E:359:TYR:HA	1:E:362:HIS:NE2	2.24	0.53
1:E:383:LEU:HD11	1:E:385:TYR:OH	2.09	0.53
1:E:575:ASP:O	1:E:578:SER:N	2.42	0.53
1:F:550:ALA:HB3	1:F:557:PRO:HB3	1.89	0.53
1:A:191:GLU:HG2	1:A:192:GLU:N	2.24	0.53
1:A:279:ILE:H	1:A:309:GLN:HG2	1.74	0.53
1:A:325:VAL:HA	1:A:328:ASP:OD2	2.09	0.53
1:A:542:ASP:O	1:A:546:ILE:HB	2.09	0.53
1:A:654:LYS:HE2	1:A:657:GLY:O	2.09	0.53
1:A:728:ALA:O	1:A:731:ALA:N	2.39	0.53
1:A:813:PHE:C	1:A:817:TYR:HD2	2.12	0.53
1:A:872:GLU:OE2	1:F:237:ILE:HB	2.09	0.53
1:B:250:ALA:CA	1:B:264:ARG:HH12	2.21	0.53
1:B:648:GLU:HB3	1:B:693:PRO:CD	2.39	0.53
1:B:672:THR:OG1	1:B:673:ASN:N	2.41	0.53
1:C:413:GLU:N	1:C:413:GLU:OE1	2.40	0.53
1:C:421:LEU:HB2	1:C:456:GLN:HE21	1.73	0.53
1:C:607:PRO:HD3	1:C:719:SER:HA	1.91	0.53
1:C:628:ALA:O	1:C:633:ASN:N	2.42	0.53
1:C:757:HIS:O	1:C:758:PHE:CG	2.62	0.53
1:D:276:LYS:HE2	1:D:279:ILE:HD11	1.90	0.53
1:D:330:ALA:HA	1:D:333:ARG:CG	2.39	0.53
1:D:872:GLU:HG3	1:D:877:LEU:HD21	1.89	0.53
1:E:592:ASN:O	1:E:593:ALA:C	2.47	0.53
1:A:210:LEU:HB2	1:A:337:LYS:C	2.29	0.52
1:A:249:ALA:O	1:A:254:GLY:HA3	2.08	0.52
1:A:307:ARG:N	1:A:310:LEU:HD12	2.12	0.52
1:A:643:CYS:SG	1:A:686:ASP:N	2.82	0.52
1:A:803:LYS:H	1:A:853:GLU:H	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:ARG:NH2	1:B:372:LEU:HD12	2.24	0.52
1:B:814:LEU:HD13	1:B:832:ILE:HG12	1.90	0.52
1:C:650:TYR:HE1	1:C:654:LYS:HZ1	1.48	0.52
1:C:839:LYS:HE2	1:C:879:VAL:HG13	1.91	0.52
1:D:317:THR:CA	1:D:321:TYR:CG	2.92	0.52
1:D:549:THR:O	1:D:553:LEU:HG	2.09	0.52
1:D:655:LEU:HA	1:D:671:LEU:HD11	1.91	0.52
1:D:670:PHE:CD2	1:D:671:LEU:N	2.77	0.52
1:D:683:LEU:O	1:D:724:ILE:N	2.42	0.52
1:D:835:GLU:OE1	1:D:839:LYS:HE2	2.09	0.52
1:E:220:ALA:O	1:E:224:GLY:N	2.20	0.52
1:E:256:LYS:CE	1:E:263:GLU:HG2	2.39	0.52
1:E:349:VAL:O	1:E:352:LEU:N	2.42	0.52
1:E:508:PHE:HE2	1:E:510:ILE:HD11	1.71	0.52
1:E:513:ILE:HA	1:E:516:GLN:CD	2.29	0.52
1:E:658:THR:OG1	1:E:663:VAL:O	2.15	0.52
1:E:804:LEU:HA	1:E:854:THR:CA	2.40	0.52
1:E:881:PRO:O	1:E:882:ASN:ND2	2.42	0.52
1:F:173:ASP:C	1:F:176:GLU:OE2	2.48	0.52
1:F:694:ASP:O	1:F:697:THR:OG1	2.23	0.52
1:F:806:LEU:CB	1:F:811:LYS:HZ2	2.19	0.52
1:F:820:SER:HB3	1:F:823:MET:C	2.29	0.52
1:A:563:GLU:HB3	1:A:568:LYS:CE	2.39	0.52
1:A:654:LYS:HG2	1:A:656:LEU:HB3	1.91	0.52
1:A:704:ASP:OD2	1:A:765:ARG:NE	2.42	0.52
1:A:853:GLU:OE2	1:A:880:LEU:HD22	2.09	0.52
1:A:872:GLU:HB3	1:F:201:ALA:CB	2.38	0.52
1:B:878:GLU:CG	1:B:879:VAL:H	2.23	0.52
1:C:15:LEU:N	1:C:160:THR:N	2.54	0.52
1:C:291:GLY:H	1:C:294:LYS:HZ2	1.56	0.52
1:C:401:ALA:O	1:C:404:ALA:N	2.42	0.52
1:C:682:VAL:HA	1:C:722:ILE:O	2.10	0.52
1:C:751:MET:HB3	1:C:755:ARG:CZ	2.38	0.52
1:D:512:ASP:OD1	1:D:513:ILE:HG12	2.09	0.52
1:D:580:VAL:HA	1:D:626:LYS:CE	2.40	0.52
1:D:791:ILE:HA	1:D:794:ARG:HH12	1.74	0.52
1:D:847:ASN:HB3	1:D:850:LYS:HD3	1.90	0.52
1:E:189:ARG:CZ	1:E:192:GLU:OE2	2.58	0.52
1:E:208:PRO:HB3	1:E:336:GLN:HB2	1.91	0.52
1:E:210:LEU:HG	1:E:339:GLU:N	2.24	0.52
1:E:311:LYS:NZ	1:E:313:ILE:HD11	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:730:GLY:O	1:E:733:PHE:N	2.42	0.52
1:F:839:LYS:NZ	1:F:879:VAL:HA	2.25	0.52
1:A:221:ILE:O	1:A:225:VAL:HG23	2.09	0.52
1:A:777:ARG:CA	1:A:780:ILE:HG12	2.31	0.52
1:A:791:ILE:O	1:A:794:ARG:HG2	2.09	0.52
1:A:809:GLU:OE1	1:A:857:VAL:HB	2.09	0.52
1:B:610:PHE:H	1:B:724:ILE:CD1	2.20	0.52
1:B:625:LYS:O	1:B:635:GLU:OE2	2.26	0.52
1:C:419:ARG:O	1:C:423:LEU:N	2.41	0.52
1:C:574:ARG:HG3	1:C:575:ASP:OD1	2.09	0.52
1:C:732:GLU:HA	1:C:735:ASN:ND2	2.24	0.52
1:C:796:GLU:H	1:C:802:TYR:HH	1.45	0.52
1:D:166:TYR:CE1	1:D:169:LYS:HD2	2.44	0.52
1:D:196:THR:O	1:D:200:LEU:HG	2.09	0.52
1:D:223:GLU:CA	1:D:226:ALA:HB3	2.31	0.52
1:D:395:LEU:O	1:D:398:ILE:N	2.43	0.52
1:D:589:ALA:HA	1:D:592:ASN:OD1	2.09	0.52
1:D:834:ASN:CG	1:D:835:GLU:H	2.07	0.52
1:E:746:THR:O	1:E:750:VAL:HG23	2.08	0.52
1:E:812:ASP:OD1	1:E:816:LYS:HG3	2.09	0.52
1:F:398:ILE:O	1:F:401:ALA:HB3	2.10	0.52
1:A:175:THR:HA	1:A:243:LEU:CG	2.39	0.52
1:A:356:GLN:HB2	1:A:360:GLU:CB	2.33	0.52
1:A:612:PHE:H	1:A:770:VAL:C	2.13	0.52
1:A:733:PHE:CE2	1:A:750:VAL:HA	2.45	0.52
1:A:872:GLU:N	1:F:198:ARG:HA	2.24	0.52
1:B:621:THR:O	1:B:625:LYS:N	2.43	0.52
1:C:15:LEU:H	1:C:160:THR:H	1.53	0.52
1:C:280:VAL:HA	1:C:311:LYS:HD2	1.92	0.52
1:C:350:ALA:O	1:C:353:ARG:HB2	2.09	0.52
1:C:628:ALA:HA	1:C:631:LEU:HB2	1.92	0.52
1:C:761:GLU:HA	1:C:764:ASN:HD21	1.73	0.52
1:C:784:VAL:CG2	1:C:811:LYS:NZ	2.71	0.52
1:D:328:ASP:OD1	1:D:330:ALA:N	2.42	0.52
1:D:459:LEU:HB3	1:D:463:ARG:NH2	2.20	0.52
1:D:569:LEU:O	1:D:573:GLU:OE2	2.27	0.52
1:D:639:ILE:N	1:D:640:ARG:HH12	2.07	0.52
1:D:682:VAL:HA	1:D:722:ILE:C	2.30	0.52
1:D:746:THR:OG1	1:D:747:LYS:N	2.42	0.52
1:D:858:VAL:HG23	1:D:859:LEU:HG	1.92	0.52
1:E:194:ARG:CB	1:E:198:ARG:HH12	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:393:LEU:O	1:E:396:VAL:HB	2.09	0.52
1:E:399:SER:OG	1:E:400:CYS:N	2.43	0.52
1:E:580:VAL:HB	1:E:581:VAL:HG23	1.92	0.52
1:E:655:LEU:HD21	1:E:709:THR:HB	1.91	0.52
1:E:802:TYR:CZ	1:E:850:LYS:O	2.62	0.52
1:F:211:ILE:HB	1:F:339:GLU:OE2	2.08	0.52
1:F:303:PRO:O	1:F:306:SER:N	2.42	0.52
1:F:373:VAL:O	1:F:376:ALA:HB3	2.09	0.52
1:F:568:LYS:HA	1:F:571:HIS:CD2	2.45	0.52
1:F:651:ALA:H	1:F:654:LYS:HZ2	1.56	0.52
1:F:748:ASN:C	1:F:751:MET:HB3	2.30	0.52
1:F:820:SER:N	1:F:823:MET:O	2.42	0.52
1:A:204:ILE:HD12	1:A:334:ARG:CZ	2.39	0.52
1:A:543:SER:OG	1:A:544:ASP:N	2.42	0.52
1:A:573:GLU:HA	1:A:576:LEU:HD12	1.91	0.52
1:A:786:ILE:CA	1:A:789:LYS:HZ3	2.21	0.52
1:A:803:LYS:N	1:A:853:GLU:H	2.06	0.52
1:B:324:ILE:O	1:B:327:LYS:N	2.43	0.52
1:B:541:VAL:O	1:B:541:VAL:HG12	2.09	0.52
1:B:606:GLN:HB2	1:B:703:LEU:O	2.09	0.52
1:C:222:ILE:N	1:C:223:GLU:OE1	2.42	0.52
1:C:242:LYS:HB3	1:C:279:ILE:HG23	1.92	0.52
1:C:413:GLU:HB2	1:C:417:LYS:CE	2.39	0.52
1:C:417:LYS:HD3	1:C:463:ARG:CZ	2.40	0.52
1:C:622:GLU:O	1:C:626:LYS:HG3	2.09	0.52
1:C:643:CYS:HB2	1:C:690:LYS:HE2	1.90	0.52
1:D:198:ARG:NH1	1:E:406:ALA:H	2.08	0.52
1:D:286:ILE:HA	1:D:289:LEU:CB	2.39	0.52
1:D:307:ARG:HG3	1:D:308:GLY:N	2.25	0.52
1:D:365:VAL:HG13	1:D:536:MET:O	2.09	0.52
1:D:494:GLU:OE1	1:D:499:THR:HA	2.10	0.52
1:D:777:ARG:HA	1:D:780:ILE:HD12	1.91	0.52
1:E:176:GLU:HG2	1:E:177:GLN:N	2.21	0.52
1:E:210:LEU:HG	1:E:338:ILE:C	2.30	0.52
1:E:542:ASP:OD1	1:E:543:SER:N	2.39	0.52
1:E:626:LYS:NZ	1:E:635:GLU:CD	2.62	0.52
1:F:198:ARG:CB	1:F:202:ARG:HH21	2.22	0.52
1:F:205:LYS:NZ	1:F:334:ARG:N	2.57	0.52
1:F:209:CYS:N	1:F:337:LYS:HA	2.24	0.52
1:A:196:THR:HA	1:A:199:VAL:CB	2.38	0.52
1:A:210:LEU:HD22	1:A:339:GLU:CA	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:ILE:H	1:A:316:THR:H	1.57	0.52
1:A:244:PHE:CD2	1:A:279:ILE:HG22	2.45	0.52
1:A:283:ILE:HD12	1:A:288:MET:HB3	1.91	0.52
1:A:346:ARG:HH11	1:A:349:VAL:HG11	1.75	0.52
1:A:404:ALA:O	1:A:408:ASP:HB2	2.09	0.52
1:A:593:ALA:O	1:A:597:SER:N	2.35	0.52
1:A:684:LEU:HA	1:A:723:VAL:CG2	2.40	0.52
1:B:167:LEU:HD21	1:B:274:GLU:OE2	2.09	0.52
1:C:203:ARG:HA	1:C:206:SER:OG	2.10	0.52
1:C:568:LYS:NZ	1:C:630:PHE:O	2.25	0.52
1:C:592:ASN:N	1:C:595:ARG:HH11	2.06	0.52
1:D:198:ARG:NH2	1:E:406:ALA:H	2.08	0.52
1:D:216:ILE:HB	2:D:1001:AGS:O5'	2.09	0.52
1:D:218:LYS:HD3	1:D:221:ILE:HD12	1.91	0.52
1:D:620:LYS:NZ	1:D:621:THR:HG23	2.25	0.52
1:D:622:GLU:HG3	1:D:826:ARG:CZ	2.40	0.52
1:D:639:ILE:HD11	1:D:682:VAL:O	2.09	0.52
1:E:228:ARG:NH1	1:E:231:ASP:C	2.63	0.52
1:E:246:LEU:HD11	1:E:251:LEU:HD12	1.91	0.52
1:E:458:GLU:OE1	1:E:458:GLU:N	2.33	0.52
1:E:592:ASN:O	1:E:595:ARG:N	2.43	0.52
1:E:746:THR:N	1:E:747:LYS:NZ	2.54	0.52
1:E:779:ALA:HB1	1:E:783:ILE:HD11	1.91	0.52
1:E:828:LEU:C	1:E:831:LEU:H	2.12	0.52
1:F:269:LEU:HA	1:F:272:ILE:HG12	1.91	0.52
1:F:859:LEU:N	1:F:876:CYS:O	2.28	0.52
1:A:209:CYS:HA	1:A:314:GLY:O	2.09	0.52
1:A:248:LEU:HD11	1:A:254:GLY:H	1.75	0.52
1:A:261:PHE:HD2	1:A:263:GLU:HG2	1.74	0.52
1:A:269:LEU:HA	1:A:272:ILE:HD12	1.90	0.52
1:A:274:GLU:N	1:A:276:LYS:HZ1	2.07	0.52
1:A:298:ALA:N	1:A:301:LEU:HB3	2.24	0.52
1:A:592:ASN:HA	1:A:595:ARG:HE	1.75	0.52
1:A:617:GLY:C	1:A:620:LYS:NZ	2.62	0.52
1:A:689:GLU:OE1	1:A:689:GLU:N	2.28	0.52
1:A:747:LYS:HA	1:A:750:VAL:HB	1.92	0.52
1:B:265:PHE:O	1:B:268:VAL:N	2.42	0.52
1:C:245:SER:HA	1:C:282:PHE:O	2.09	0.52
1:C:630:PHE:HD1	1:C:631:LEU:HA	1.74	0.52
1:C:642:ASP:HB2	1:C:645:GLU:CG	2.25	0.52
1:C:682:VAL:HG23	1:C:723:VAL:CA	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:857:VAL:HG13	1:C:879:VAL:HA	1.90	0.52
1:D:207:ASN:ND2	1:D:312:VAL:HG22	2.24	0.52
1:D:482:LYS:HA	1:D:485:GLU:CD	2.30	0.52
1:D:645:GLU:OE1	1:D:645:GLU:N	2.39	0.52
1:E:175:THR:O	1:E:179:ARG:N	2.43	0.52
1:E:226:ALA:CA	1:E:229:ILE:HD12	2.32	0.52
1:E:228:ARG:O	1:E:231:ASP:HB2	2.09	0.52
1:E:303:PRO:O	1:E:307:ARG:N	2.32	0.52
1:E:318:ASN:HB3	1:E:322:ARG:HH22	1.74	0.52
1:E:541:VAL:C	1:E:544:ASP:OD2	2.48	0.52
1:E:566:ASN:O	1:E:569:LEU:N	2.42	0.52
1:E:665:TYR:HE1	1:E:667:GLU:OE2	1.93	0.52
1:E:786:ILE:HA	1:E:789:LYS:NZ	2.25	0.52
1:F:363:HIS:HE2	1:F:396:VAL:C	2.10	0.52
1:F:569:LEU:CD2	1:F:598:ARG:HH21	2.22	0.52
1:F:639:ILE:O	1:F:684:LEU:HB3	2.10	0.52
2:F:1002:AGS:O3A	2:F:1002:AGS:O2G	2.27	0.52
1:A:785:ASP:CG	1:A:789:LYS:HZ2	2.12	0.52
1:A:800:LYS:HE3	1:A:851:ASP:CB	2.39	0.52
1:B:323:SER:C	1:B:327:LYS:NZ	2.63	0.52
1:B:349:VAL:O	1:B:353:ARG:HG2	2.10	0.52
1:B:367:ILE:HG23	1:B:540:VAL:HG21	1.92	0.52
1:B:820:SER:HB3	1:B:824:GLY:N	2.13	0.52
1:C:171:ALA:HB1	1:C:244:PHE:CG	2.45	0.52
1:C:333:ARG:NH1	1:C:334:ARG:CG	2.73	0.52
1:C:472:GLY:HA2	1:C:475:GLU:OE2	2.10	0.52
1:D:785:ASP:OD1	1:D:785:ASP:O	2.28	0.52
1:E:193:ILE:CG2	1:E:225:VAL:HG22	2.40	0.52
1:E:216:ILE:O	2:E:1001:AGS:PB	2.68	0.52
1:E:222:ILE:HG21	1:E:282:PHE:CZ	2.45	0.52
1:E:652:VAL:HG13	1:E:669:GLY:HA3	1.91	0.52
1:F:211:ILE:N	1:F:339:GLU:HG2	2.21	0.52
1:F:568:LYS:HA	1:F:571:HIS:HB2	1.92	0.52
1:F:614:GLY:O	1:F:615:LEU:HG	2.08	0.52
1:F:818:GLY:HA3	1:F:828:LEU:HD11	1.92	0.52
1:F:839:LYS:HZ2	1:F:879:VAL:HA	1.74	0.52
1:A:751:MET:CG	1:A:755:ARG:HH12	2.23	0.52
1:A:823:MET:SD	1:A:826:ARG:HD3	2.49	0.52
1:B:262:GLU:O	1:B:265:PHE:N	2.43	0.52
1:B:541:VAL:HG12	1:B:544:ASP:OD2	2.10	0.52
1:B:580:VAL:HG21	1:B:622:GLU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:609:SER:HA	1:B:724:ILE:HD12	1.91	0.52
1:B:846:LYS:HE3	1:B:879:VAL:HA	1.91	0.52
1:C:186:VAL:HA	2:C:1001:AGS:N6	2.25	0.52
1:C:190:GLU:CG	1:C:191:GLU:N	2.72	0.52
1:C:285:GLU:HB3	1:C:288:MET:HE1	1.92	0.52
1:C:599:SER:C	1:C:601:LEU:N	2.62	0.52
1:C:621:THR:CB	1:C:826:ARG:NH1	2.69	0.52
1:D:178:ALA:C	1:D:181:GLY:H	2.12	0.52
1:D:260:ASP:O	1:D:264:ARG:N	2.37	0.52
1:D:609:SER:CA	1:D:724:ILE:HG13	2.26	0.52
1:D:692:HIS:O	1:D:696:LEU:HG	2.09	0.52
1:D:732:GLU:OE2	1:D:750:VAL:HG23	2.10	0.52
1:E:216:ILE:O	1:E:218:LYS:N	2.43	0.52
1:E:476:LEU:HD23	1:E:521:GLU:HG3	1.90	0.52
1:F:250:ALA:HA	1:F:253:ALA:HB3	1.91	0.52
1:F:285:GLU:CG	1:F:288:MET:HG2	2.40	0.52
1:F:352:LEU:HA	1:F:355:LEU:HB2	1.90	0.52
1:F:375:ALA:HB2	1:F:546:ILE:HD13	1.92	0.52
1:F:549:THR:HA	1:F:552:ARG:HH11	1.75	0.52
1:A:213:GLU:HB3	1:A:214:PRO:HD2	1.92	0.52
1:A:332:GLU:OE2	1:A:333:ARG:C	2.48	0.52
1:A:673:ASN:HB3	1:A:676:GLN:HB3	1.91	0.52
1:A:824:GLY:O	1:A:827:PRO:HD2	2.10	0.52
1:A:879:VAL:O	1:A:880:LEU:HD23	2.10	0.52
1:B:202:ARG:CZ	1:B:204:ILE:O	2.58	0.52
1:B:237:ILE:O	1:B:240:GLY:N	2.42	0.52
1:B:307:ARG:O	1:B:309:GLN:NE2	2.43	0.52
1:B:781:HIS:O	1:B:784:VAL:HB	2.08	0.52
1:C:174:MET:HG2	1:C:243:LEU:O	2.09	0.52
1:C:205:LYS:HZ1	1:C:333:ARG:HB2	1.74	0.52
1:C:212:GLY:O	1:C:317:THR:HA	2.10	0.52
1:C:544:ASP:O	1:C:547:SER:N	2.36	0.52
1:C:615:LEU:HD22	1:C:734:ILE:HD13	1.91	0.52
1:D:265:PHE:O	1:D:269:LEU:N	2.38	0.52
1:D:357:PRO:HD2	1:D:358:LYS:NZ	2.25	0.52
1:D:681:SER:OG	1:D:721:CYS:SG	2.30	0.52
1:D:708:ILE:N	1:D:716:ILE:HG22	2.25	0.52
1:D:762:PHE:CD1	1:D:763:LEU:HD12	2.44	0.52
1:E:544:ASP:N	1:E:547:SER:OG	2.43	0.52
1:E:570:ILE:C	1:E:595:ARG:HH22	2.13	0.52
1:E:620:LYS:O	1:E:623:LEU:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:615:LEU:HD21	1:F:734:ILE:HG21	1.90	0.52
1:F:678:LYS:HG2	1:F:679:PRO:O	2.10	0.52
1:A:210:LEU:HD22	1:A:339:GLU:HG3	1.92	0.51
1:A:375:ALA:HA	1:A:378:LEU:HD12	1.91	0.51
1:A:389:PRO:O	1:A:393:LEU:HG	2.09	0.51
1:A:568:LYS:O	1:A:572:MET:HB3	2.11	0.51
1:A:606:GLN:HG2	1:A:608:ALA:N	2.25	0.51
1:A:751:MET:O	1:A:754:VAL:HB	2.10	0.51
1:B:242:LYS:O	1:B:279:ILE:HA	2.10	0.51
1:B:787:ARG:CA	1:B:790:GLU:HB3	2.36	0.51
1:B:789:LYS:HG3	1:B:790:GLU:N	2.24	0.51
1:C:223:GLU:N	1:C:223:GLU:CD	2.58	0.51
1:C:247:ASP:CG	1:C:248:LEU:N	2.63	0.51
1:C:460:GLU:O	1:C:464:GLN:HG2	2.11	0.51
1:C:697:THR:HG1	1:C:698:VAL:H	1.57	0.51
1:C:700:LEU:HD22	1:C:762:PHE:HD1	1.74	0.51
1:C:753:ALA:HA	1:C:756:GLN:CD	2.30	0.51
1:E:366:ARG:C	1:E:539:ASN:HA	2.31	0.51
1:E:385:TYR:HD1	1:E:386:ARG:HH12	1.55	0.51
1:E:451:LYS:O	1:E:455:LEU:HB2	2.10	0.51
1:E:529:ARG:NH1	1:E:535:SER:HB3	2.25	0.51
1:E:571:HIS:HB3	1:E:574:ARG:HD3	1.91	0.51
1:E:698:VAL:O	1:E:702:MET:HG2	2.09	0.51
1:F:283:ILE:HG12	1:F:312:VAL:CG2	2.37	0.51
1:F:307:ARG:HH11	1:F:333:ARG:NH1	2.04	0.51
1:F:625:LYS:HZ1	1:F:636:ASP:C	2.13	0.51
1:F:787:ARG:HD3	1:F:790:GLU:OE1	2.10	0.51
1:A:321:TYR:O	1:A:325:VAL:HG23	2.10	0.51
1:A:348:THR:HA	1:A:351:ILE:HG13	1.93	0.51
1:A:740:SER:HB3	1:A:774:LYS:HE2	1.93	0.51
1:A:857:VAL:HA	1:A:878:GLU:H	1.75	0.51
1:B:195:SER:HA	1:B:198:ARG:NH1	2.26	0.51
1:B:228:ARG:HH11	1:B:231:ASP:CG	2.12	0.51
1:B:375:ALA:HA	1:B:378:LEU:HD12	1.91	0.51
1:B:612:PHE:CG	1:B:613:LEU:N	2.78	0.51
1:B:779:ALA:O	1:B:782:LYS:N	2.44	0.51
1:C:174:MET:H	1:C:242:LYS:HZ3	1.44	0.51
1:C:366:ARG:NH1	1:C:538:GLN:C	2.63	0.51
1:C:373:VAL:O	1:C:376:ALA:HB3	2.09	0.51
1:C:655:LEU:HB2	1:C:671:LEU:HD21	1.91	0.51
1:D:166:TYR:HB2	1:D:264:ARG:HE	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:ASP:CG	1:D:175:THR:HB	2.30	0.51
1:D:233:ASP:HB2	1:D:234:VAL:HG23	1.91	0.51
1:D:563:GLU:HA	1:D:568:LYS:CE	2.40	0.51
1:D:590:VAL:O	1:D:594:VAL:N	2.22	0.51
1:D:609:SER:C	1:D:768:SER:HG	2.14	0.51
1:D:619:GLY:H	1:D:772:PHE:HE2	1.55	0.51
1:D:655:LEU:O	1:D:657:GLY:N	2.43	0.51
1:D:746:THR:O	1:D:748:ASN:N	2.42	0.51
1:D:771:ILE:HG22	1:D:772:PHE:N	2.26	0.51
1:D:790:GLU:HA	1:D:793:GLU:OE2	2.08	0.51
1:D:807:THR:OG1	1:D:856:ASN:ND2	2.42	0.51
1:D:849:ILE:HD13	1:D:852:LYS:HG3	1.91	0.51
1:E:235:PRO:HD2	1:E:238:LEU:HD12	1.93	0.51
1:E:356:GLN:CG	1:E:360:GLU:HB2	2.40	0.51
1:E:484:ASP:HA	1:E:487:GLU:HB3	1.92	0.51
1:E:619:GLY:C	2:E:1002:AGS:O1A	2.48	0.51
1:E:651:ALA:HA	1:E:656:LEU:CB	2.27	0.51
1:E:800:LYS:HE3	1:E:802:TYR:HH	1.75	0.51
1:E:802:TYR:HB2	1:E:804:LEU:CD1	2.39	0.51
1:F:697:THR:HA	1:F:700:LEU:HB2	1.91	0.51
1:F:700:LEU:HD23	1:F:703:LEU:CG	2.23	0.51
1:F:702:MET:CB	1:F:708:ILE:CG2	2.79	0.51
1:A:249:ALA:O	1:A:264:ARG:NH1	2.43	0.51
1:A:822:ASP:CG	1:F:307:ARG:NH1	2.64	0.51
1:B:329:GLY:O	1:B:333:ARG:HG2	2.11	0.51
1:B:344:SER:O	1:B:347:GLN:NE2	2.43	0.51
1:B:688:VAL:HG13	1:B:727:SER:CB	2.41	0.51
1:C:270:LYS:HA	1:C:273:GLU:CB	2.39	0.51
1:C:505:LEU:HA	1:C:508:PHE:HB2	1.91	0.51
1:C:576:LEU:HA	1:C:579:GLU:CD	2.31	0.51
1:D:228:ARG:O	1:D:231:ASP:HB2	2.10	0.51
1:D:483:LEU:CD1	1:D:487:GLU:HB2	2.40	0.51
1:D:535:SER:HB3	1:D:538:GLN:HA	1.93	0.51
1:D:541:VAL:HB	1:D:544:ASP:OD2	2.10	0.51
1:D:684:LEU:CA	1:D:725:MET:HG2	2.40	0.51
1:D:765:ARG:NH2	1:E:640:ARG:HH12	2.08	0.51
1:E:302:LYS:HB3	1:E:303:PRO:HD3	1.92	0.51
1:E:316:THR:HG23	1:E:317:THR:O	2.10	0.51
1:E:772:PHE:CE1	1:E:775:LEU:HD12	2.44	0.51
1:E:794:ARG:HH22	1:E:796:GLU:HA	1.76	0.51
1:F:191:GLU:O	1:F:195:SER:N	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:322:ARG:HH12	1:F:326:GLU:HA	1.75	0.51
1:F:609:SER:HB2	1:F:724:ILE:CG2	2.40	0.51
1:F:684:LEU:HD12	1:F:684:LEU:O	2.09	0.51
1:F:788:LEU:HD23	1:F:789:LYS:HZ2	1.75	0.51
1:A:692:HIS:CD2	1:A:693:PRO:HD2	2.45	0.51
1:A:808:GLN:OE1	1:A:811:LYS:HD2	2.10	0.51
1:B:189:ARG:CZ	1:B:343:PRO:HD3	2.40	0.51
1:B:244:PHE:CE2	1:B:312:VAL:HG12	2.46	0.51
1:B:343:PRO:O	1:B:388:LEU:HD22	2.11	0.51
1:B:348:THR:O	1:B:351:ILE:HG22	2.10	0.51
1:B:356:GLN:HB3	1:B:357:PRO:HD3	1.92	0.51
1:B:367:ILE:CA	1:B:539:ASN:HB2	2.41	0.51
1:B:572:MET:HE2	1:B:576:LEU:HD12	1.92	0.51
1:B:663:VAL:H	1:B:667:GLU:HG2	1.76	0.51
1:B:704:ASP:CG	1:B:707:ARG:HH11	2.14	0.51
1:B:747:LYS:O	1:B:751:MET:HG3	2.11	0.51
1:C:168:SER:C	1:C:264:ARG:NH2	2.63	0.51
1:C:217:GLY:CA	2:C:1001:AGS:H4'	2.40	0.51
1:C:542:ASP:OD1	1:C:542:ASP:N	2.43	0.51
1:C:640:ARG:HH21	1:C:684:LEU:HD13	1.75	0.51
1:C:650:TYR:HE2	1:C:657:GLY:N	2.08	0.51
1:C:692:HIS:O	1:C:695:VAL:HB	2.11	0.51
1:C:785:ASP:C	1:C:789:LYS:HG3	2.30	0.51
1:C:839:LYS:NZ	1:C:880:LEU:C	2.64	0.51
1:C:853:GLU:O	1:C:854:THR:OG1	2.27	0.51
1:D:210:LEU:HB3	1:D:340:VAL:HG23	1.92	0.51
1:D:351:ILE:O	1:D:355:LEU:N	2.37	0.51
1:D:425:GLN:CD	1:D:456:GLN:HE22	2.14	0.51
1:D:615:LEU:HD12	1:D:616:SER:H	1.76	0.51
1:E:202:ARG:NH1	1:E:205:LYS:CB	2.73	0.51
1:E:468:GLU:O	1:E:471:HIS:HB2	2.09	0.51
1:E:602:ALA:HB1	1:E:606:GLN:HB3	1.92	0.51
1:E:734:ILE:HA	1:E:774:LYS:HD2	1.92	0.51
1:E:827:PRO:O	1:E:830:ARG:N	2.43	0.51
1:F:286:ILE:HG13	1:F:287:HIS:CD2	2.46	0.51
1:F:403:VAL:O	1:F:406:ALA:N	2.44	0.51
1:F:618:SER:O	1:F:620:LYS:HG2	2.10	0.51
1:F:628:ALA:HA	1:F:631:LEU:HG	1.92	0.51
1:A:233:ASP:O	1:A:234:VAL:HG13	2.11	0.51
1:A:356:GLN:O	1:A:358:LYS:N	2.43	0.51
1:A:569:LEU:HA	1:A:572:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:796:GLU:CG	1:A:800:LYS:H	2.22	0.51
1:B:281:LEU:HD12	1:B:282:PHE:H	1.75	0.51
1:B:337:LYS:HG3	1:B:338:ILE:N	2.25	0.51
1:B:610:PHE:HD1	1:B:767:SER:HB2	1.75	0.51
1:B:751:MET:C	1:B:755:ARG:NH1	2.64	0.51
1:B:764:ASN:C	1:B:765:ARG:HH11	2.13	0.51
1:B:770:VAL:HG12	1:B:771:ILE:N	2.24	0.51
1:B:780:ILE:HA	1:B:783:ILE:HD12	1.92	0.51
1:B:786:ILE:C	1:B:789:LYS:HZ3	2.06	0.51
1:B:812:ASP:O	1:B:815:ALA:N	2.44	0.51
1:C:322:ARG:HA	1:C:325:VAL:HG23	1.93	0.51
1:C:357:PRO:O	1:C:360:GLU:N	2.44	0.51
1:C:646:LEU:HB2	1:C:692:HIS:H	1.75	0.51
1:C:784:VAL:HG22	1:C:811:LYS:HZ2	1.76	0.51
1:C:815:ALA:C	1:C:819:TYR:H	2.13	0.51
1:D:210:LEU:HG	1:D:338:ILE:O	2.11	0.51
1:D:672:THR:O	1:D:675:LEU:N	2.43	0.51
1:D:679:PRO:HB2	1:D:680:TYR:CD2	2.45	0.51
1:D:704:ASP:OD1	1:D:704:ASP:O	2.28	0.51
1:D:728:ALA:O	1:D:730:GLY:N	2.41	0.51
1:D:783:ILE:HA	1:D:786:ILE:CD1	2.28	0.51
1:D:787:ARG:HA	1:D:790:GLU:OE1	2.11	0.51
1:E:227:GLN:O	1:E:230:ILE:N	2.43	0.51
1:E:428:ILE:HG12	1:E:449:ARG:CD	2.41	0.51
1:E:446:LYS:HA	1:E:449:ARG:NH2	2.26	0.51
1:E:656:LEU:O	1:E:659:THR:OG1	2.28	0.51
1:F:625:LYS:CE	1:F:637:MET:HB2	2.39	0.51
1:A:244:PHE:CD2	1:A:281:LEU:HG	2.45	0.51
1:A:285:GLU:HG3	1:A:288:MET:N	2.26	0.51
1:A:379:ALA:HA	1:A:382:TYR:OH	2.11	0.51
1:A:403:VAL:O	1:A:407:ARG:N	2.44	0.51
1:A:639:ILE:C	1:A:683:LEU:HD12	2.31	0.51
1:A:698:VAL:HA	1:A:701:GLN:HB2	1.92	0.51
1:A:837:LEU:HA	1:A:840:LEU:HB2	1.93	0.51
1:B:203:ARG:HG3	1:B:204:ILE:HG13	1.93	0.51
1:B:224:GLY:O	1:B:227:GLN:HB3	2.10	0.51
1:B:374:THR:OG1	1:B:375:ALA:N	2.44	0.51
1:B:565:GLU:O	1:B:568:LYS:NZ	2.40	0.51
1:C:187:ILE:HD12	1:C:351:ILE:CG1	2.41	0.51
1:C:229:ILE:O	1:C:232:ASP:N	2.42	0.51
1:C:247:ASP:O	1:C:248:LEU:HD12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:ILE:HB	1:C:331:PHE:CE1	2.45	0.51
1:C:331:PHE:O	1:C:335:PHE:CD2	2.63	0.51
1:C:387:ARG:HB3	1:C:389:PRO:HD2	1.93	0.51
1:C:571:HIS:CA	1:C:574:ARG:HG2	2.36	0.51
1:C:709:THR:HA	1:C:716:ILE:N	2.25	0.51
1:C:785:ASP:CG	1:C:811:LYS:NZ	2.64	0.51
1:D:213:GLU:HA	1:D:387:ARG:CZ	2.40	0.51
1:D:543:SER:HA	1:D:546:ILE:HD12	1.92	0.51
1:D:740:SER:CB	1:D:774:LYS:HB2	2.40	0.51
1:D:842:LEU:C	1:D:846:LYS:NZ	2.61	0.51
1:E:213:GLU:C	1:E:387:ARG:NH1	2.64	0.51
1:E:219:THR:HG23	1:E:222:ILE:HD12	1.92	0.51
1:E:639:ILE:HD13	1:E:683:LEU:HD13	1.91	0.51
1:E:701:GLN:O	1:E:704:ASP:N	2.44	0.51
1:E:806:LEU:HD13	1:E:809:GLU:OE2	2.10	0.51
1:F:205:LYS:HG3	1:F:334:ARG:HA	1.92	0.51
1:F:282:PHE:HA	1:F:313:ILE:H	1.75	0.51
1:F:363:HIS:HE2	1:F:397:ASP:CA	2.19	0.51
1:F:669:GLY:HA2	1:F:672:THR:HG1	1.74	0.51
1:F:785:ASP:C	1:F:789:LYS:HZ3	2.13	0.51
1:A:282:PHE:HA	1:A:312:VAL:HA	1.92	0.51
1:A:542:ASP:O	1:A:547:SER:N	2.41	0.51
1:A:632:PHE:HD2	1:A:637:MET:HG2	1.76	0.51
1:A:647:SER:HA	1:A:692:HIS:CB	2.40	0.51
1:A:828:LEU:HD11	1:A:831:LEU:HD22	1.92	0.51
1:B:215:GLY:N	1:B:218:LYS:HG2	2.26	0.51
1:B:246:LEU:HD23	1:B:249:ALA:C	2.31	0.51
1:B:252:THR:C	1:B:264:ARG:HH21	2.14	0.51
1:B:333:ARG:CZ	1:B:334:ARG:HE	2.24	0.51
1:B:336:GLN:O	1:B:337:LYS:HB2	2.11	0.51
1:B:338:ILE:HD12	1:B:339:GLU:N	2.26	0.51
1:B:631:LEU:CD1	1:B:632:PHE:HB2	2.41	0.51
1:C:174:MET:HE3	1:C:243:LEU:HB2	1.93	0.51
1:C:188:GLY:H	1:C:351:ILE:HD11	1.74	0.51
1:C:226:ALA:O	1:C:230:ILE:HG12	2.11	0.51
1:C:744:GLU:HA	1:C:747:LYS:CE	2.41	0.51
1:C:805:ASN:OD1	1:C:856:ASN:ND2	2.43	0.51
1:D:174:MET:HE2	1:D:183:LEU:HD11	1.91	0.51
1:D:198:ARG:NH1	1:E:402:GLY:C	2.64	0.51
1:D:585:ASP:HA	1:D:588:LYS:HB2	1.92	0.51
1:D:874:GLU:HB3	1:D:876:CYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:ARG:HH12	1:E:205:LYS:CB	2.24	0.51
1:E:215:GLY:HA2	2:E:1001:AGS:O3G	2.10	0.51
1:E:245:SER:CA	1:E:281:LEU:HG	2.41	0.51
1:E:276:LYS:HE2	1:E:279:ILE:HB	1.93	0.51
1:E:350:ALA:HA	1:E:353:ARG:CZ	2.41	0.51
1:E:356:GLN:HG3	1:E:360:GLU:HB2	1.93	0.51
1:E:366:ARG:HB3	1:E:539:ASN:CB	2.41	0.51
1:E:603:ASN:HB3	1:F:795:PHE:CD1	2.45	0.51
1:E:620:LYS:CA	1:E:623:LEU:HB3	2.40	0.51
1:E:857:VAL:HA	1:E:878:GLU:CA	2.28	0.51
1:F:170:TYR:CD1	1:F:250:ALA:HB2	2.46	0.51
1:F:560:LYS:O	1:F:562:SER:OG	2.21	0.51
1:F:612:PHE:HA	1:F:770:VAL:CG2	2.41	0.51
1:F:704:ASP:CA	1:F:765:ARG:NH1	2.73	0.51
1:A:204:ILE:HG13	1:A:205:LYS:N	2.26	0.51
1:A:213:GLU:O	1:A:218:LYS:HD2	2.10	0.51
1:A:246:LEU:HB2	1:A:281:LEU:HD22	1.93	0.51
1:A:709:THR:HG22	1:A:710:SER:H	1.75	0.51
1:A:823:MET:HB2	1:F:307:ARG:CZ	2.41	0.51
1:B:180:GLN:HG2	1:B:182:LYS:HZ3	1.76	0.51
1:B:190:GLU:O	1:B:193:ILE:N	2.44	0.51
1:B:208:PRO:CG	1:B:313:ILE:HG23	2.41	0.51
1:B:728:ALA:HB1	1:B:732:GLU:OE1	2.11	0.51
1:B:784:VAL:HB	1:B:811:LYS:NZ	2.25	0.51
1:C:140:ILE:O	1:C:144:ALA:N	2.32	0.51
1:C:189:ARG:NH2	1:C:343:PRO:HD3	2.26	0.51
1:C:265:PHE:CE2	1:C:269:LEU:HD11	2.45	0.51
1:C:265:PHE:CZ	1:C:301:LEU:HD11	2.46	0.51
1:C:467:ASN:O	1:C:471:HIS:N	2.40	0.51
1:C:558:VAL:O	1:C:561:LEU:HB2	2.10	0.51
1:C:637:MET:SD	1:C:681:SER:HA	2.51	0.51
1:C:820:SER:HB3	1:C:824:GLY:N	2.25	0.51
1:D:165:GLU:HB2	1:D:170:TYR:OH	2.11	0.51
1:D:295:ASP:C	1:D:297:ALA:N	2.63	0.51
1:D:388:LEU:O	1:D:391:SER:OG	2.25	0.51
1:D:545:THR:OG1	1:D:546:ILE:N	2.42	0.51
1:D:575:ASP:O	1:D:578:SER:OG	2.29	0.51
1:D:585:ASP:CA	1:D:588:LYS:NZ	2.74	0.51
1:D:650:TYR:HB2	1:D:654:LYS:H	1.74	0.51
1:D:733:PHE:O	1:D:774:LYS:NZ	2.43	0.51
1:D:811:LYS:H	1:D:811:LYS:CD	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:218:LYS:O	1:E:221:ILE:HB	2.11	0.51
1:E:228:ARG:NH1	1:E:232:ASP:O	2.43	0.51
1:E:319:ASN:CA	1:E:322:ARG:NH1	2.65	0.51
1:E:362:HIS:H	1:E:362:HIS:CD2	2.28	0.51
1:E:378:LEU:HD23	1:E:382:TYR:CZ	2.45	0.51
1:E:546:ILE:O	1:E:550:ALA:N	2.40	0.51
1:E:610:PHE:H	1:E:724:ILE:CA	2.14	0.51
1:E:619:GLY:O	1:E:622:GLU:HB3	2.11	0.51
1:E:777:ARG:HG3	1:E:778:LYS:N	2.24	0.51
1:F:175:THR:HG1	1:F:244:PHE:HZ	1.58	0.51
1:F:834:ASN:O	1:F:837:LEU:N	2.43	0.51
1:A:210:LEU:HD12	1:A:337:LYS:HB3	1.92	0.51
1:A:780:ILE:O	1:A:783:ILE:N	2.44	0.51
1:B:285:GLU:OE1	1:B:287:HIS:N	2.44	0.51
1:B:594:VAL:CG2	1:B:610:PHE:HE2	2.24	0.51
1:B:620:LYS:NZ	1:B:826:ARG:HH11	2.05	0.51
1:B:646:LEU:HD13	1:B:687:GLU:C	2.30	0.51
1:C:174:MET:H	1:C:242:LYS:HE2	1.74	0.51
1:C:243:LEU:CD2	1:C:282:PHE:HB3	2.35	0.51
1:C:304:ALA:O	1:C:307:ARG:N	2.42	0.51
1:C:621:THR:CB	1:C:826:ARG:HH11	2.23	0.51
1:D:180:GLN:OE1	1:D:182:LYS:HD2	2.11	0.51
1:D:248:LEU:HG	1:D:249:ALA:HA	1.93	0.51
1:D:286:ILE:HA	1:D:289:LEU:HD12	1.93	0.51
1:D:321:TYR:CD1	1:D:321:TYR:HA	2.46	0.51
1:D:369:ASP:C	1:D:372:LEU:HB3	2.31	0.51
1:D:684:LEU:HG	1:D:726:THR:H	1.75	0.51
1:D:804:LEU:CD1	1:D:855:VAL:H	2.13	0.51
1:E:180:GLN:O	1:E:488:ASN:ND2	2.44	0.51
1:E:290:MET:SD	1:E:327:LYS:HE3	2.51	0.51
1:E:486:LEU:N	1:E:489:LYS:NZ	2.57	0.51
1:E:698:VAL:O	1:E:701:GLN:N	2.44	0.51
1:E:787:ARG:O	1:E:790:GLU:HB3	2.10	0.51
1:E:806:LEU:O	1:E:809:GLU:HB3	2.11	0.51
1:F:290:MET:HA	1:F:298:ALA:HB3	1.93	0.51
1:F:620:LYS:HZ2	2:F:1002:AGS:PG	2.34	0.51
1:F:623:LEU:HD12	1:F:626:LYS:CB	2.39	0.51
1:A:391:SER:O	1:A:394:ASP:HB3	2.11	0.51
1:A:762:PHE:CG	1:A:766:ILE:HD11	2.46	0.51
1:A:788:LEU:HD12	1:A:789:LYS:N	2.26	0.51
1:B:195:SER:HB2	1:B:198:ARG:CZ	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:SER:O	1:B:311:LYS:HE3	2.10	0.51
1:B:222:ILE:HD12	1:B:222:ILE:H	1.75	0.51
1:B:337:LYS:HE2	1:B:338:ILE:O	2.11	0.51
1:B:346:ARG:HG3	1:B:347:GLN:N	2.26	0.51
1:B:633:ASN:O	1:B:634:ASP:OD1	2.29	0.51
1:B:634:ASP:OD1	1:B:634:ASP:C	2.48	0.51
1:B:640:ARG:HA	1:B:684:LEU:CB	2.41	0.51
1:B:672:THR:O	1:B:675:LEU:N	2.43	0.51
1:C:190:GLU:CG	1:C:194:ARG:HH12	2.24	0.51
1:C:226:ALA:HA	1:C:229:ILE:HB	1.93	0.51
1:C:285:GLU:OE1	1:C:287:HIS:CE1	2.64	0.51
1:C:493:ALA:C	1:C:495:ARG:H	2.14	0.51
1:C:593:ALA:O	1:C:596:LEU:HB2	2.11	0.51
1:C:643:CYS:SG	1:C:691:ALA:N	2.83	0.51
1:C:699:MET:C	1:C:703:LEU:HD13	2.32	0.51
1:D:203:ARG:CZ	1:E:362:HIS:C	2.80	0.51
1:D:265:PHE:O	1:D:268:VAL:N	2.44	0.51
1:D:355:LEU:HA	1:D:358:LYS:HD3	1.93	0.51
1:D:421:LEU:HG	1:D:452:GLU:HG3	1.92	0.51
1:D:503:ALA:HB1	1:D:507:TYR:CZ	2.46	0.51
1:D:656:LEU:HD21	1:D:709:THR:CG2	2.41	0.51
1:D:763:LEU:HD12	1:D:763:LEU:N	2.26	0.51
1:D:829:ASN:HA	1:D:832:ILE:HD12	1.93	0.51
1:E:351:ILE:O	1:E:355:LEU:HG	2.10	0.51
1:E:546:ILE:O	1:E:549:THR:HB	2.11	0.51
1:E:746:THR:O	1:E:749:LEU:HB2	2.11	0.51
1:F:192:GLU:HA	1:F:195:SER:HB2	1.92	0.51
1:F:318:ASN:O	1:F:319:ASN:O	2.29	0.51
1:F:389:PRO:O	1:F:393:LEU:HG	2.11	0.51
1:F:591:SER:C	1:F:595:ARG:HH12	2.11	0.51
1:F:810:ALA:HA	1:F:813:PHE:HB3	1.93	0.51
1:A:317:THR:HB	1:A:319:ASN:H	1.77	0.50
1:B:167:LEU:HA	1:B:170:TYR:CE1	2.47	0.50
1:B:187:ILE:HD12	1:B:188:GLY:N	2.26	0.50
1:B:646:LEU:CD1	1:B:690:LYS:NZ	2.72	0.50
1:B:704:ASP:HB2	1:B:707:ARG:HH11	1.76	0.50
1:B:859:LEU:HD21	1:B:873:ALA:HB1	1.93	0.50
1:C:195:SER:O	1:C:199:VAL:HG23	2.12	0.50
1:C:217:GLY:O	1:C:220:ALA:N	2.45	0.50
1:C:218:LYS:N	2:C:1001:AGS:O1B	2.45	0.50
1:C:236:THR:C	1:C:239:GLN:H	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:HIS:HD2	1:C:404:ALA:HB2	1.76	0.50
1:C:659:THR:HA	1:C:712:GLN:HE22	1.75	0.50
1:C:803:LYS:HZ1	1:C:854:THR:N	2.09	0.50
1:D:320:GLU:O	1:D:323:SER:N	2.44	0.50
1:D:558:VAL:HA	1:D:561:LEU:HD13	1.91	0.50
1:D:646:LEU:O	1:D:692:HIS:HD2	1.94	0.50
1:D:830:ARG:HA	1:D:833:GLN:HG2	1.93	0.50
1:E:210:LEU:CD1	1:E:338:ILE:HB	2.39	0.50
1:E:210:LEU:HA	1:E:338:ILE:O	2.11	0.50
1:E:329:GLY:O	1:E:331:PHE:N	2.44	0.50
1:E:530:ARG:HG3	1:E:531:ALA:H	1.76	0.50
1:E:804:LEU:HD23	1:E:854:THR:N	2.26	0.50
1:E:833:GLN:HG2	1:E:837:LEU:CD1	2.39	0.50
1:F:318:ASN:CG	1:F:337:LYS:HZ2	2.13	0.50
1:F:356:GLN:O	1:F:360:GLU:N	2.36	0.50
1:F:593:ALA:HB1	1:F:608:ALA:HB1	1.92	0.50
1:F:830:ARG:O	1:F:833:GLN:NE2	2.44	0.50
1:A:575:ASP:HB2	1:A:630:PHE:HZ	1.75	0.50
1:B:280:VAL:HG12	1:B:310:LEU:C	2.30	0.50
1:B:385:TYR:CE1	1:B:386:ARG:NH1	2.79	0.50
1:B:607:PRO:CG	1:B:703:LEU:HA	2.41	0.50
1:B:618:SER:N	1:B:826:ARG:NH1	2.60	0.50
1:B:632:PHE:CD2	1:B:680:TYR:HB3	2.46	0.50
1:B:732:GLU:C	1:B:735:ASN:H	2.14	0.50
1:C:234:VAL:N	1:D:409:SER:OG	2.45	0.50
1:C:259:GLY:C	1:C:263:GLU:OE2	2.49	0.50
1:C:291:GLY:N	1:C:294:LYS:HG2	2.26	0.50
1:C:306:SER:HG	1:C:334:ARG:HH21	1.58	0.50
1:C:348:THR:OG1	1:C:388:LEU:HD21	2.11	0.50
1:C:782:LYS:O	1:C:784:VAL:HG22	2.10	0.50
1:D:197:ILE:O	1:D:200:LEU:N	2.45	0.50
1:D:261:PHE:HB3	1:D:262:GLU:OE1	2.11	0.50
1:D:302:LYS:O	1:D:305:LEU:N	2.44	0.50
1:D:480:LYS:HA	1:D:483:LEU:HB3	1.93	0.50
1:D:530:ARG:NH2	1:D:538:GLN:N	2.57	0.50
1:D:728:ALA:HB1	1:D:734:ILE:CD1	2.41	0.50
1:E:200:LEU:HD23	1:E:208:PRO:HD2	1.91	0.50
1:E:276:LYS:NZ	1:E:279:ILE:HB	2.25	0.50
1:E:278:LEU:O	1:E:280:VAL:HG23	2.12	0.50
1:E:283:ILE:HB	1:E:286:ILE:CG2	2.40	0.50
1:E:391:SER:O	1:E:394:ASP:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:459:LEU:HB3	1:E:463:ARG:HH21	1.76	0.50
1:E:613:LEU:HD11	1:E:729:LEU:H	1.76	0.50
1:F:345:VAL:HA	1:F:380:LYS:CE	2.42	0.50
1:A:675:LEU:O	1:A:678:LYS:N	2.44	0.50
1:A:843:ARG:HH11	1:A:846:LYS:HD2	1.76	0.50
1:A:855:VAL:HG12	1:A:857:VAL:HG23	1.94	0.50
1:B:198:ARG:C	1:B:200:LEU:N	2.64	0.50
1:B:263:GLU:CD	1:B:266:LYS:HZ1	2.14	0.50
1:B:324:ILE:N	1:B:327:LYS:NZ	2.58	0.50
1:B:628:ALA:HA	1:B:631:LEU:HD11	1.93	0.50
1:B:743:GLN:HB3	1:B:745:SER:OG	2.10	0.50
1:C:259:GLY:HA3	1:C:262:GLU:CD	2.31	0.50
1:C:368:LEU:HD13	1:C:540:VAL:N	2.26	0.50
1:C:407:ARG:CD	1:C:538:GLN:HA	2.29	0.50
1:C:417:LYS:HE3	1:C:459:LEU:HD22	1.93	0.50
1:C:514:LYS:HA	1:C:517:ILE:HB	1.94	0.50
1:C:557:PRO:HA	1:C:560:LYS:HE2	1.93	0.50
1:C:579:GLU:HB2	1:C:626:LYS:HZ3	1.73	0.50
1:C:583:GLN:NE2	1:C:773:ASN:N	2.58	0.50
1:C:605:ARG:HG3	1:C:606:GLN:H	1.76	0.50
1:C:619:GLY:HA2	1:C:826:ARG:HH22	1.75	0.50
1:C:718:CYS:C	1:C:720:ASN:H	2.15	0.50
1:D:191:GLU:HA	1:D:194:ARG:HD2	1.94	0.50
1:D:194:ARG:O	1:D:197:ILE:HB	2.11	0.50
1:D:461:PRO:HB2	1:D:465:ARG:NE	2.26	0.50
1:D:464:GLN:HA	1:D:467:ASN:HB2	1.93	0.50
1:D:596:LEU:O	1:D:600:GLY:N	2.43	0.50
1:D:804:LEU:HG	1:D:805:ASN:OD1	2.10	0.50
1:E:203:ARG:CG	1:F:363:HIS:ND1	2.74	0.50
1:E:216:ILE:HD11	1:E:389:PRO:HD2	1.93	0.50
1:E:359:TYR:CZ	1:E:396:VAL:HG12	2.47	0.50
1:E:479:ALA:HA	1:E:482:LYS:HB3	1.93	0.50
1:E:485:GLU:O	1:E:488:ASN:HB3	2.11	0.50
1:E:842:LEU:O	1:E:848:GLU:OE2	2.30	0.50
1:F:207:ASN:HD21	1:F:311:LYS:CE	2.19	0.50
1:F:222:ILE:O	1:F:225:VAL:HB	2.11	0.50
1:F:565:GLU:HB3	1:F:598:ARG:NH2	2.26	0.50
1:F:793:GLU:HA	1:F:797:GLN:HG3	1.93	0.50
1:F:843:ARG:NH1	1:F:881:PRO:C	2.65	0.50
1:A:172:ILE:O	1:A:245:SER:HB3	2.11	0.50
1:A:193:ILE:O	1:A:196:THR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:PHE:CG	1:A:262:GLU:N	2.79	0.50
1:A:347:GLN:O	1:A:350:ALA:HB3	2.11	0.50
1:A:351:ILE:HG22	1:A:355:LEU:CD1	2.42	0.50
1:A:395:LEU:HD12	1:A:398:ILE:HB	1.94	0.50
1:A:610:PHE:C	1:A:724:ILE:HG21	2.31	0.50
1:A:639:ILE:O	1:A:683:LEU:HD12	2.11	0.50
1:B:172:ILE:HD12	1:B:174:MET:N	2.24	0.50
1:B:211:ILE:H	1:B:339:GLU:CD	2.15	0.50
1:B:368:LEU:O	1:B:540:VAL:HG21	2.11	0.50
1:B:583:GLN:NE2	1:B:773:ASN:HB3	2.27	0.50
1:B:623:LEU:HD12	1:B:627:VAL:HG11	1.94	0.50
1:C:317:THR:HB	1:C:320:GLU:CB	2.42	0.50
1:C:488:ASN:ND2	1:C:489:LYS:HZ2	2.09	0.50
1:C:625:LYS:HZ1	1:C:635:GLU:HB2	1.75	0.50
1:C:654:LYS:O	1:C:670:PHE:HB3	2.12	0.50
1:C:655:LEU:HG	1:C:656:LEU:H	1.76	0.50
1:C:782:LYS:HG3	1:C:783:ILE:N	2.26	0.50
1:D:411:PRO:HB3	1:D:538:GLN:HG2	1.92	0.50
1:D:557:PRO:O	1:D:559:LYS:N	2.38	0.50
1:E:215:GLY:N	1:E:218:LYS:NZ	2.59	0.50
1:E:285:GLU:OE2	1:E:288:MET:SD	2.69	0.50
1:E:460:GLU:CD	1:E:463:ARG:HH12	2.10	0.50
1:E:473:HIS:HA	1:E:521:GLU:CD	2.32	0.50
1:E:510:ILE:HG12	1:E:513:ILE:HB	1.93	0.50
1:E:513:ILE:O	1:E:517:ILE:HG13	2.11	0.50
1:E:551:ALA:O	1:E:554:THR:N	2.45	0.50
1:E:654:LYS:CE	1:E:694:ASP:OD2	2.59	0.50
1:E:686:ASP:HA	1:E:726:THR:HG1	1.68	0.50
1:E:688:VAL:HG22	1:E:689:GLU:OE1	2.11	0.50
1:F:225:VAL:O	1:F:229:ILE:N	2.44	0.50
1:F:403:VAL:HA	1:F:406:ALA:HB3	1.92	0.50
1:F:583:GLN:NE2	1:F:773:ASN:OD1	2.44	0.50
1:F:683:LEU:HD23	1:F:684:LEU:N	2.22	0.50
1:F:700:LEU:HD22	1:F:761:GLU:CG	2.41	0.50
1:F:707:ARG:HG3	1:F:715:THR:CB	2.40	0.50
1:F:723:VAL:HG12	1:F:724:ILE:H	1.76	0.50
1:A:637:MET:HG3	1:A:681:SER:CB	2.41	0.50
1:B:265:PHE:C	1:B:269:LEU:HD13	2.31	0.50
1:B:266:LYS:O	1:B:269:LEU:HB2	2.12	0.50
1:B:281:LEU:C	1:B:312:VAL:HA	2.32	0.50
1:B:337:LYS:CD	1:B:338:ILE:H	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ALA:HA	1:B:353:ARG:HB2	1.93	0.50
1:B:367:ILE:HA	1:B:539:ASN:HB2	1.93	0.50
1:B:737:GLN:H	1:B:774:LYS:HZ3	1.57	0.50
1:C:198:ARG:HD2	1:D:405:VAL:HA	1.93	0.50
1:C:219:THR:O	1:C:221:ILE:N	2.43	0.50
1:C:223:GLU:O	1:C:226:ALA:N	2.45	0.50
1:C:287:HIS:O	1:C:324:ILE:HD11	2.11	0.50
1:C:288:MET:HA	1:C:320:GLU:OE2	2.11	0.50
1:C:331:PHE:HA	1:C:335:PHE:CE2	2.46	0.50
1:C:640:ARG:HE	1:C:684:LEU:HD13	1.76	0.50
1:C:828:LEU:O	1:C:831:LEU:N	2.45	0.50
1:D:14:ILE:N	1:D:116:ILE:O	2.36	0.50
1:D:348:THR:HA	1:D:351:ILE:HD12	1.94	0.50
1:D:367:ILE:HD11	1:D:540:VAL:HG13	1.92	0.50
1:D:404:ALA:HA	1:D:407:ARG:HE	1.76	0.50
1:D:736:SER:N	1:D:774:LYS:NZ	2.59	0.50
1:D:781:HIS:O	1:D:784:VAL:HG12	2.11	0.50
1:E:190:GLU:C	1:E:194:ARG:HG3	2.32	0.50
1:E:400:CYS:HA	1:E:403:VAL:HB	1.94	0.50
1:E:457:GLU:HA	1:E:460:GLU:CB	2.42	0.50
1:F:351:ILE:O	1:F:355:LEU:HD13	2.12	0.50
1:F:352:LEU:HA	1:F:355:LEU:HD22	1.93	0.50
1:F:367:ILE:CD1	1:F:372:LEU:HD11	2.41	0.50
1:F:391:SER:O	1:F:395:LEU:HG	2.11	0.50
1:F:543:SER:OG	1:F:543:SER:O	2.24	0.50
1:F:570:ILE:HD12	1:F:595:ARG:HH21	1.76	0.50
1:F:612:PHE:HB3	1:F:725:MET:O	2.10	0.50
1:F:819:TYR:CE1	1:F:827:PRO:HD2	2.46	0.50
1:A:266:LYS:HA	1:A:269:LEU:HB3	1.93	0.50
1:A:541:VAL:HB	1:A:545:THR:HG23	1.93	0.50
1:A:638:MET:C	1:A:639:ILE:HG13	2.32	0.50
1:A:709:THR:HA	1:A:715:THR:HA	1.92	0.50
1:A:788:LEU:O	1:A:791:ILE:N	2.45	0.50
1:B:173:ASP:O	1:B:174:MET:HB2	2.12	0.50
1:B:556:ILE:HB	1:B:557:PRO:HD2	1.93	0.50
1:B:623:LEU:O	1:B:625:LYS:N	2.44	0.50
1:B:693:PRO:O	1:B:695:VAL:N	2.45	0.50
1:B:755:ARG:NH1	1:B:755:ARG:HG3	2.27	0.50
1:C:642:ASP:O	1:C:645:GLU:N	2.45	0.50
1:C:759:ARG:HG3	1:C:761:GLU:N	2.26	0.50
1:C:788:LEU:HD21	1:C:804:LEU:HD21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:810:ALA:HA	1:C:878:GLU:OE2	2.11	0.50
1:D:203:ARG:NH1	1:E:362:HIS:CB	2.74	0.50
1:D:248:LEU:O	1:D:250:ALA:N	2.44	0.50
1:D:625:LYS:HA	1:D:628:ALA:HB3	1.93	0.50
1:D:762:PHE:CE1	1:D:766:ILE:HD13	2.47	0.50
1:D:823:MET:C	1:D:825:ALA:N	2.63	0.50
1:E:569:LEU:HG	1:E:595:ARG:CZ	2.42	0.50
1:F:269:LEU:HA	1:F:272:ILE:CG1	2.42	0.50
1:F:605:ARG:NH1	1:F:705:ASP:CB	2.58	0.50
1:F:689:GLU:OE1	1:F:689:GLU:N	2.31	0.50
1:A:331:PHE:HZ	1:A:335:PHE:HE2	1.58	0.50
1:B:353:ARG:HH12	1:B:372:LEU:CB	2.15	0.50
1:B:387:ARG:HB3	1:B:389:PRO:HD2	1.94	0.50
1:B:700:LEU:O	1:B:704:ASP:N	2.45	0.50
1:B:778:LYS:CA	1:B:781:HIS:HB3	2.41	0.50
1:B:797:GLN:HB3	1:B:799:ASP:OD1	2.10	0.50
1:C:14:ILE:C	1:C:160:THR:N	2.61	0.50
1:C:180:GLN:N	1:C:180:GLN:CD	2.65	0.50
1:C:218:LYS:H	1:C:218:LYS:HZ3	1.58	0.50
1:C:242:LYS:O	1:C:280:VAL:O	2.30	0.50
1:C:264:ARG:O	1:C:268:VAL:N	2.35	0.50
1:C:317:THR:O	1:C:320:GLU:HB3	2.12	0.50
1:C:568:LYS:NZ	1:C:630:PHE:C	2.63	0.50
1:C:569:LEU:HD11	1:C:595:ARG:CZ	2.42	0.50
1:C:638:MET:HG2	1:C:639:ILE:O	2.11	0.50
1:D:195:SER:O	1:D:199:VAL:HG23	2.12	0.50
1:D:214:PRO:CG	1:D:387:ARG:HE	2.25	0.50
1:D:828:LEU:O	1:D:831:LEU:N	2.44	0.50
1:D:833:GLN:O	1:D:834:ASN:C	2.50	0.50
1:E:168:SER:HG	1:E:264:ARG:NH2	2.05	0.50
1:E:415:ASP:O	1:E:419:ARG:HG3	2.11	0.50
1:E:513:ILE:O	1:E:516:GLN:HB2	2.12	0.50
1:E:619:GLY:H	2:E:1002:AGS:C4'	2.24	0.50
1:F:552:ARG:HB2	1:F:552:ARG:HH11	1.74	0.50
1:F:575:ASP:O	1:F:578:SER:HB2	2.12	0.50
1:F:651:ALA:O	1:F:654:LYS:NZ	2.28	0.50
1:F:658:THR:HG22	1:F:666:ASP:HA	1.94	0.50
1:F:825:ALA:HB3	2:F:1002:AGS:S1G	2.52	0.50
1:A:169:LYS:O	1:A:264:ARG:NH2	2.45	0.50
1:A:872:GLU:CB	1:F:201:ALA:H	2.24	0.50
1:B:688:VAL:HG13	1:B:727:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:746:THR:HA	1:B:749:LEU:HD12	1.93	0.50
1:C:193:ILE:HG23	1:C:197:ILE:HD11	1.94	0.50
1:C:207:ASN:H	1:C:336:GLN:NE2	2.09	0.50
1:C:280:VAL:HG22	1:C:311:LYS:HD3	1.93	0.50
1:C:594:VAL:HA	1:C:597:SER:CB	2.42	0.50
1:C:744:GLU:HA	1:C:747:LYS:HE2	1.93	0.50
1:C:803:LYS:HZ2	1:C:853:GLU:CA	2.25	0.50
1:D:243:LEU:HD12	1:D:280:VAL:HG12	1.94	0.50
1:D:473:HIS:HA	1:D:476:LEU:CG	2.42	0.50
1:D:515:LYS:O	1:D:519:LYS:N	2.25	0.50
1:E:179:ARG:NH1	1:E:495:ARG:HB3	2.27	0.50
1:E:318:ASN:O	1:E:322:ARG:NH1	2.45	0.50
1:E:502:ALA:HA	1:E:505:LEU:HB3	1.94	0.50
1:E:534:ASN:O	1:E:537:ILE:HD13	2.12	0.50
1:E:637:MET:HE2	1:E:682:VAL:N	2.24	0.50
1:E:639:ILE:HD12	1:E:682:VAL:O	2.10	0.50
1:E:650:TYR:HA	1:E:653:SER:OG	2.12	0.50
1:E:682:VAL:HG22	1:E:683:LEU:N	2.26	0.50
1:E:732:GLU:O	1:E:736:SER:N	2.21	0.50
1:E:820:SER:OG	1:E:822:ASP:OD1	2.27	0.50
1:E:835:GLU:O	1:E:839:LYS:HE2	2.11	0.50
1:E:846:LYS:O	1:E:848:GLU:HG3	2.11	0.50
1:F:652:VAL:HG22	1:F:667:GLU:OE2	2.12	0.50
1:F:752:GLY:O	1:F:755:ARG:N	2.45	0.50
1:F:810:ALA:O	1:F:813:PHE:N	2.45	0.50
1:A:190:GLU:O	1:A:193:ILE:N	2.45	0.50
1:A:210:LEU:HB2	1:A:338:ILE:N	2.27	0.50
1:A:837:LEU:HA	1:A:840:LEU:HD12	1.93	0.50
1:B:263:GLU:CA	1:B:266:LYS:NZ	2.63	0.50
1:B:282:PHE:CD2	1:B:284:ASP:HA	2.47	0.50
1:B:397:ASP:O	1:B:400:CYS:HB2	2.12	0.50
1:B:597:SER:HG	1:B:598:ARG:N	2.10	0.50
1:B:803:LYS:NZ	1:B:854:THR:HG23	2.17	0.50
1:B:809:GLU:O	1:B:812:ASP:N	2.37	0.50
1:C:174:MET:HG2	1:C:242:LYS:HZ2	1.75	0.50
1:C:222:ILE:HA	1:C:225:VAL:HB	1.92	0.50
1:C:302:LYS:HE2	1:C:310:LEU:CB	2.42	0.50
1:C:583:GLN:NE2	1:C:775:LEU:HD21	2.27	0.50
1:C:652:VAL:C	1:C:654:LYS:HZ2	2.12	0.50
1:C:708:ILE:H	1:C:717:ASP:HB2	1.76	0.50
1:C:709:THR:HG23	1:C:714:LYS:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:786:ILE:HD12	1:C:789:LYS:NZ	2.27	0.50
1:D:212:GLY:O	1:D:318:ASN:OD1	2.30	0.50
1:D:332:GLU:O	1:D:334:ARG:N	2.45	0.50
1:D:508:PHE:CA	1:D:511:PRO:HD2	2.41	0.50
1:D:613:LEU:N	1:D:771:ILE:HA	2.26	0.50
1:D:637:MET:C	1:D:678:LYS:NZ	2.64	0.50
1:D:650:TYR:O	1:D:654:LYS:HD2	2.12	0.50
1:D:842:LEU:HG	1:D:846:LYS:NZ	2.27	0.50
1:E:805:ASN:HB2	1:E:807:THR:CG2	2.42	0.50
1:F:186:VAL:HB	2:F:1001:AGS:C5	2.41	0.50
1:F:260:ASP:HA	1:F:263:GLU:HB3	1.94	0.50
1:F:802:TYR:N	1:F:802:TYR:CD1	2.79	0.50
1:F:819:TYR:CD1	1:F:824:GLY:O	2.64	0.50
1:F:843:ARG:NH2	1:F:849:ILE:HG21	2.17	0.50
1:A:213:GLU:C	1:A:218:LYS:HZ3	2.16	0.49
1:A:228:ARG:HA	1:A:231:ASP:HB2	1.93	0.49
1:A:262:GLU:HA	1:A:265:PHE:CB	2.42	0.49
1:A:764:ASN:ND2	1:A:765:ARG:CZ	2.75	0.49
1:B:189:ARG:HH22	1:B:342:GLU:N	2.09	0.49
1:B:195:SER:CA	1:B:198:ARG:HH12	2.26	0.49
1:B:205:LYS:NZ	1:B:334:ARG:HG2	2.27	0.49
1:B:329:GLY:HA2	1:B:332:GLU:OE1	2.11	0.49
1:B:348:THR:HA	1:B:351:ILE:HG22	1.94	0.49
1:B:611:LEU:HG	1:B:768:SER:O	2.11	0.49
1:B:634:ASP:OD1	1:B:636:ASP:CG	2.50	0.49
1:B:793:GLU:N	1:B:802:TYR:OH	2.45	0.49
1:C:205:LYS:HD3	1:C:335:PHE:N	2.27	0.49
1:C:568:LYS:NZ	1:C:630:PHE:CA	2.75	0.49
1:C:576:LEU:HD12	1:C:587:ILE:CG2	2.42	0.49
1:C:592:ASN:O	1:C:596:LEU:HG	2.11	0.49
1:C:692:HIS:HE1	1:C:694:ASP:OD2	1.95	0.49
1:C:823:MET:CB	1:C:827:PRO:HG3	2.42	0.49
1:D:185:PRO:O	1:D:187:ILE:HG23	2.11	0.49
1:D:241:ALA:C	1:D:278:LEU:HA	2.32	0.49
1:D:380:LYS:HZ1	1:D:381:ARG:CA	2.25	0.49
1:D:498:ASP:OD1	1:D:499:THR:N	2.44	0.49
1:D:596:LEU:HD11	1:E:838:ASN:HD21	1.76	0.49
1:E:306:SER:OG	1:E:334:ARG:NH2	2.45	0.49
1:E:478:GLN:O	1:E:481:LYS:HB3	2.12	0.49
1:E:482:LYS:HA	1:E:485:GLU:CD	2.33	0.49
1:E:529:ARG:HG3	1:E:530:ARG:N	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:557:PRO:O	1:E:561:LEU:HG	2.12	0.49
1:E:685:PHE:H	1:E:726:THR:H	1.59	0.49
1:F:700:LEU:CB	1:F:703:LEU:HD21	2.08	0.49
1:F:793:GLU:HB3	1:F:797:GLN:HE21	1.77	0.49
1:A:560:LYS:NZ	1:A:633:ASN:HB2	2.27	0.49
1:A:625:LYS:NZ	1:A:635:GLU:O	2.45	0.49
1:B:590:VAL:O	1:B:594:VAL:HG23	2.13	0.49
1:B:621:THR:O	1:B:624:ALA:N	2.45	0.49
1:B:628:ALA:HB3	1:B:635:GLU:HG3	1.93	0.49
1:B:704:ASP:N	1:B:704:ASP:OD1	2.38	0.49
1:C:14:ILE:C	1:C:160:THR:CA	2.81	0.49
1:C:198:ARG:HD2	1:D:405:VAL:HG22	1.93	0.49
1:C:228:ARG:HG2	1:C:233:ASP:O	2.12	0.49
1:C:262:GLU:HG2	1:C:263:GLU:CD	2.32	0.49
1:C:281:LEU:HD21	1:C:311:LYS:H	1.77	0.49
1:C:404:ALA:O	1:C:408:ASP:N	2.45	0.49
1:C:476:LEU:O	1:C:520:LEU:HD13	2.12	0.49
1:C:591:SER:O	1:C:594:VAL:HB	2.11	0.49
1:C:613:LEU:HD21	1:C:772:PHE:CD2	2.47	0.49
1:C:746:THR:C	1:C:748:ASN:H	2.15	0.49
1:C:810:ALA:O	1:C:814:LEU:HG	2.12	0.49
1:C:836:ILE:O	1:C:840:LEU:N	2.45	0.49
1:D:205:LYS:HE3	1:D:334:ARG:C	2.33	0.49
1:D:262:GLU:O	1:D:265:PHE:CD2	2.63	0.49
1:D:272:ILE:HG22	1:D:276:LYS:HZ3	1.77	0.49
1:D:414:LEU:O	1:D:417:LYS:N	2.44	0.49
1:D:543:SER:HA	1:D:546:ILE:HB	1.93	0.49
1:D:584:MET:HA	1:D:587:ILE:HD13	1.95	0.49
1:D:623:LEU:O	1:D:627:VAL:HG23	2.11	0.49
1:D:673:ASN:HA	1:D:676:GLN:CD	2.31	0.49
1:D:695:VAL:HA	1:D:698:VAL:HB	1.94	0.49
1:D:771:ILE:HG22	1:D:772:PHE:O	2.12	0.49
1:E:219:THR:HA	1:E:222:ILE:HD12	1.94	0.49
1:E:270:LYS:HZ2	1:E:274:GLU:HB3	1.77	0.49
1:E:723:VAL:HG22	1:E:725:MET:HA	1.93	0.49
1:E:794:ARG:HH22	1:E:796:GLU:CA	2.26	0.49
1:E:794:ARG:HG3	1:E:795:PHE:O	2.12	0.49
1:E:813:PHE:CD1	1:E:813:PHE:N	2.76	0.49
1:F:202:ARG:HD2	1:F:206:SER:O	2.12	0.49
1:F:294:LYS:HA	1:F:300:ILE:HD11	1.94	0.49
1:F:391:SER:O	1:F:394:ASP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:742:ILE:CG2	1:F:747:LYS:NZ	2.73	0.49
1:F:781:HIS:CE1	1:F:782:LYS:HZ2	2.30	0.49
1:F:817:TYR:OH	1:F:874:GLU:HG2	2.11	0.49
1:A:618:SER:OG	1:A:772:PHE:HB3	2.11	0.49
1:A:839:LYS:O	1:A:842:LEU:HB2	2.11	0.49
1:B:205:LYS:CE	1:B:334:ARG:HA	2.31	0.49
1:B:245:SER:HB3	1:B:282:PHE:O	2.11	0.49
1:B:261:PHE:HB2	1:B:265:PHE:CZ	2.47	0.49
1:B:590:VAL:HA	1:B:593:ALA:HB3	1.95	0.49
1:B:744:GLU:CA	1:B:747:LYS:HB2	2.38	0.49
1:B:764:ASN:HB3	1:B:765:ARG:NH1	2.21	0.49
1:B:803:LYS:NZ	1:B:854:THR:HA	2.28	0.49
1:C:186:VAL:HG12	1:C:187:ILE:N	2.27	0.49
1:C:421:LEU:HB2	1:C:456:GLN:NE2	2.27	0.49
1:C:558:VAL:HG13	1:C:561:LEU:HD12	1.93	0.49
1:C:654:LYS:CG	1:C:655:LEU:H	1.88	0.49
1:C:656:LEU:HD13	1:C:711:GLY:HA3	1.94	0.49
1:C:801:HIS:C	1:C:853:GLU:OE2	2.51	0.49
1:C:826:ARG:N	1:C:827:PRO:HD2	2.27	0.49
1:D:202:ARG:HH12	1:D:205:LYS:HB3	1.77	0.49
1:D:273:GLU:HB3	1:D:310:LEU:HD11	1.94	0.49
1:D:342:GLU:HG2	1:D:388:LEU:HD12	1.94	0.49
1:D:356:GLN:HG2	1:D:360:GLU:CD	2.32	0.49
1:D:584:MET:O	1:D:588:LYS:HG3	2.11	0.49
1:D:613:LEU:H	1:D:770:VAL:C	2.16	0.49
1:D:686:ASP:C	1:D:688:VAL:N	2.66	0.49
1:E:592:ASN:HA	1:E:595:ARG:HB2	1.93	0.49
1:E:613:LEU:HG	1:E:728:ALA:CA	2.42	0.49
1:E:641:VAL:HG23	1:E:684:LEU:HB3	1.94	0.49
1:E:644:SER:N	1:E:690:LYS:HB3	2.27	0.49
1:E:689:GLU:OE2	1:E:754:VAL:HG13	2.12	0.49
1:E:703:LEU:HD22	1:E:765:ARG:HD3	1.94	0.49
1:F:198:ARG:HB2	1:F:202:ARG:NH2	2.25	0.49
1:F:201:ALA:O	1:F:203:ARG:HG2	2.12	0.49
1:F:349:VAL:O	1:F:352:LEU:N	2.45	0.49
1:F:563:GLU:HB3	1:F:568:LYS:CB	2.40	0.49
1:F:567:GLU:O	1:F:571:HIS:N	2.34	0.49
1:F:761:GLU:CD	1:F:765:ARG:HH22	2.15	0.49
1:F:845:LEU:O	1:F:847:ASN:ND2	2.46	0.49
1:A:248:LEU:HD12	1:A:250:ALA:H	1.76	0.49
1:A:258:LYS:HZ1	1:A:295:ASP:CG	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:ARG:CZ	1:B:842:LEU:HD12	2.42	0.49
1:B:174:MET:HB3	1:B:243:LEU:CD1	2.39	0.49
1:B:218:LYS:O	1:B:221:ILE:HD12	2.12	0.49
1:B:224:GLY:HA2	1:B:227:GLN:HB3	1.94	0.49
1:B:234:VAL:HB	1:B:238:LEU:HD23	1.95	0.49
1:B:573:GLU:H	1:B:595:ARG:NH2	2.10	0.49
1:B:612:PHE:HA	1:B:770:VAL:C	2.33	0.49
1:B:656:LEU:HA	1:B:668:GLY:C	2.33	0.49
1:B:740:SER:O	1:B:742:ILE:HD12	2.12	0.49
1:B:837:LEU:HA	1:B:840:LEU:CD1	2.42	0.49
1:C:191:GLU:HA	1:C:194:ARG:CB	2.37	0.49
1:C:381:ARG:HG3	1:C:382:TYR:CE1	2.48	0.49
1:C:584:MET:HA	1:C:587:ILE:HD12	1.95	0.49
1:C:640:ARG:N	1:C:683:LEU:HD12	2.28	0.49
1:C:685:PHE:C	1:C:688:VAL:H	2.16	0.49
1:C:787:ARG:HH12	1:C:826:ARG:HE	1.59	0.49
1:C:797:GLN:H	1:C:797:GLN:CD	2.16	0.49
1:D:206:SER:O	1:D:335:PHE:HA	2.13	0.49
1:D:280:VAL:HG12	1:D:281:LEU:N	2.27	0.49
1:D:378:LEU:HB3	1:D:382:TYR:CE2	2.47	0.49
1:D:530:ARG:NH1	1:D:537:ILE:C	2.51	0.49
1:D:792:GLU:HA	1:D:795:PHE:CD2	2.47	0.49
1:D:834:ASN:CG	1:D:835:GLU:N	2.66	0.49
1:E:362:HIS:CD2	1:E:362:HIS:N	2.80	0.49
1:E:787:ARG:HD2	1:E:790:GLU:OE1	2.12	0.49
1:E:855:VAL:HG12	1:E:856:ASN:O	2.11	0.49
1:F:685:PHE:CB	1:F:726:THR:H	2.25	0.49
1:F:708:ILE:N	1:F:708:ILE:CD1	2.73	0.49
1:F:808:GLN:HA	1:F:811:LYS:HE2	1.93	0.49
1:A:376:ALA:HA	1:A:379:ALA:HB3	1.94	0.49
1:A:815:ALA:O	1:A:819:TYR:HD2	1.96	0.49
1:B:166:TYR:CA	1:B:169:LYS:HG2	2.37	0.49
1:B:195:SER:HA	1:B:198:ARG:HH12	1.77	0.49
1:B:253:ALA:C	1:B:260:ASP:OD2	2.51	0.49
1:B:549:THR:O	1:B:552:ARG:HG2	2.12	0.49
1:B:646:LEU:CD1	1:B:690:LYS:HZ3	2.25	0.49
1:B:781:HIS:CE1	1:B:811:LYS:HE3	2.47	0.49
1:C:466:TYR:CE1	1:C:535:SER:HB2	2.47	0.49
1:C:471:HIS:HA	1:C:474:GLU:CB	2.36	0.49
1:C:488:ASN:HD21	1:C:489:LYS:HZ2	1.61	0.49
1:C:691:ALA:HB3	1:C:696:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:813:PHE:HB3	1:C:878:GLU:OE2	2.13	0.49
1:C:837:LEU:O	1:C:840:LEU:N	2.46	0.49
1:D:201:ALA:HB2	1:D:238:LEU:HD11	1.95	0.49
1:D:321:TYR:O	1:D:324:ILE:HB	2.12	0.49
1:D:351:ILE:HG12	2:D:1001:AGS:C2	2.43	0.49
1:D:395:LEU:HA	1:D:398:ILE:HB	1.95	0.49
1:D:517:ILE:O	1:D:521:GLU:N	2.31	0.49
1:D:733:PHE:CZ	1:D:746:THR:O	2.65	0.49
1:D:733:PHE:CD2	1:D:750:VAL:HB	2.47	0.49
1:D:782:LYS:O	1:D:786:ILE:HG13	2.12	0.49
1:E:232:ASP:HA	1:E:239:GLN:OE1	2.13	0.49
1:E:331:PHE:CE1	1:E:335:PHE:HE2	2.30	0.49
1:E:625:LYS:HE2	1:E:626:LYS:HZ1	1.78	0.49
1:E:825:ALA:O	1:E:828:LEU:N	2.45	0.49
1:F:576:LEU:O	1:F:579:GLU:HB2	2.12	0.49
1:F:618:SER:OG	1:F:619:GLY:N	2.44	0.49
1:F:620:LYS:NZ	2:F:1002:AGS:O2G	2.41	0.49
1:F:708:ILE:O	1:F:715:THR:OG1	2.20	0.49
1:F:819:TYR:CZ	1:F:828:LEU:HB2	2.48	0.49
1:F:836:ILE:O	1:F:839:LYS:N	2.46	0.49
1:A:573:GLU:HA	1:A:576:LEU:HB2	1.94	0.49
1:A:607:PRO:HD3	1:A:706:GLY:HA3	1.94	0.49
1:A:613:LEU:HD11	1:A:726:THR:HA	1.95	0.49
1:A:638:MET:HE1	1:A:684:LEU:HB3	1.93	0.49
1:A:872:GLU:HB3	1:F:201:ALA:H	1.77	0.49
1:B:217:GLY:O	1:B:221:ILE:HD11	2.12	0.49
1:B:301:LEU:CD1	1:B:305:LEU:HD11	2.42	0.49
1:B:597:SER:HG	1:B:598:ARG:H	1.60	0.49
1:B:753:ALA:HA	1:B:756:GLN:CD	2.32	0.49
1:B:857:VAL:HG12	1:B:878:GLU:N	2.21	0.49
1:C:174:MET:N	1:C:242:LYS:NZ	2.53	0.49
1:C:186:VAL:HG13	2:C:1001:AGS:N7	2.28	0.49
1:C:191:GLU:HB2	1:C:194:ARG:HH21	1.74	0.49
1:C:344:SER:O	1:C:348:THR:OG1	2.20	0.49
1:C:377:GLN:HA	1:C:380:LYS:HB3	1.94	0.49
1:C:542:ASP:O	1:C:545:THR:N	2.45	0.49
1:C:567:GLU:HB3	1:C:571:HIS:NE2	2.28	0.49
1:C:794:ARG:O	1:C:795:PHE:C	2.51	0.49
1:D:391:SER:O	1:D:394:ASP:N	2.45	0.49
1:D:460:GLU:HA	1:D:463:ARG:NH1	2.25	0.49
1:D:607:PRO:HB3	1:D:719:SER:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:607:PRO:HB3	1:D:722:ILE:HD13	1.94	0.49
1:D:741:LYS:HA	1:D:773:ASN:CG	2.33	0.49
1:E:246:LEU:HB2	1:E:281:LEU:HD11	1.94	0.49
1:E:379:ALA:O	1:E:383:LEU:N	2.39	0.49
1:E:476:LEU:HD23	1:E:521:GLU:CG	2.43	0.49
1:E:644:SER:HA	1:E:691:ALA:HB2	1.94	0.49
1:E:684:LEU:HD23	1:E:685:PHE:C	2.33	0.49
1:E:709:THR:N	1:E:716:ILE:N	2.54	0.49
1:E:858:VAL:HG12	1:E:859:LEU:N	2.28	0.49
1:F:399:SER:HA	1:F:545:THR:OG1	2.13	0.49
1:F:682:VAL:HG22	1:F:683:LEU:H	1.77	0.49
1:F:829:ASN:CG	1:F:830:ARG:H	2.07	0.49
1:A:200:LEU:HD12	1:A:201:ALA:CA	2.38	0.49
1:A:740:SER:HB3	1:A:774:LYS:CE	2.42	0.49
1:B:337:LYS:HG3	1:B:338:ILE:H	1.77	0.49
1:B:348:THR:O	1:B:349:VAL:C	2.51	0.49
1:B:353:ARG:HH12	1:B:373:VAL:H	1.59	0.49
1:B:355:LEU:O	1:B:358:LYS:HG2	2.13	0.49
1:B:566:ASN:HA	1:B:569:LEU:HD12	1.95	0.49
1:B:585:ASP:HA	1:B:588:LYS:CD	2.37	0.49
1:B:780:ILE:O	1:B:784:VAL:HG23	2.13	0.49
1:C:193:ILE:O	1:C:197:ILE:HG12	2.13	0.49
1:C:372:LEU:HA	1:C:542:ASP:HB3	1.94	0.49
1:C:557:PRO:CA	1:C:560:LYS:HB2	2.43	0.49
1:C:618:SER:C	1:C:826:ARG:NH1	2.65	0.49
1:C:837:LEU:HA	1:C:840:LEU:HB3	1.95	0.49
1:D:232:ASP:O	1:D:495:ARG:NH2	2.45	0.49
1:D:357:PRO:HG2	1:D:358:LYS:NZ	2.25	0.49
1:D:365:VAL:HA	1:D:536:MET:O	2.12	0.49
1:D:461:PRO:HB2	1:D:465:ARG:NH2	2.27	0.49
1:D:557:PRO:HG2	1:D:558:VAL:HG23	1.93	0.49
1:D:733:PHE:CD1	1:D:733:PHE:N	2.74	0.49
1:D:736:SER:H	1:D:774:LYS:HZ1	1.60	0.49
1:D:762:PHE:O	1:D:765:ARG:HB2	2.12	0.49
1:D:825:ALA:N	1:D:827:PRO:HD2	2.28	0.49
1:E:232:ASP:O	1:E:234:VAL:HG13	2.13	0.49
1:E:283:ILE:O	1:E:314:GLY:HA2	2.12	0.49
1:E:794:ARG:NH2	1:E:796:GLU:HA	2.28	0.49
1:F:194:ARG:O	1:F:198:ARG:HG3	2.13	0.49
1:F:218:LYS:NZ	2:F:1001:AGS:O3G	2.46	0.49
1:F:242:LYS:HZ3	1:F:277:THR:CG2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:279:ILE:C	1:F:310:LEU:HD11	2.33	0.49
1:A:262:GLU:O	1:A:267:GLY:N	2.41	0.49
1:A:274:GLU:HB3	1:A:276:LYS:HZ2	1.77	0.49
1:A:302:LYS:O	1:A:305:LEU:N	2.45	0.49
1:A:654:LYS:HE3	1:A:657:GLY:N	2.27	0.49
1:B:387:ARG:HB2	1:B:390:ASP:HB2	1.94	0.49
1:C:208:PRO:CD	1:C:313:ILE:HG23	2.42	0.49
1:C:316:THR:OG1	1:C:317:THR:N	2.46	0.49
1:C:383:LEU:HB3	1:C:385:TYR:CE1	2.48	0.49
1:D:558:VAL:HA	1:D:561:LEU:CB	2.38	0.49
1:D:609:SER:H	1:D:767:SER:CB	2.21	0.49
1:E:611:LEU:HB3	1:E:769:ILE:HG12	1.95	0.49
1:E:786:ILE:CA	1:E:789:LYS:HZ1	2.26	0.49
1:F:261:PHE:O	1:F:264:ARG:HB3	2.13	0.49
1:F:287:HIS:CE1	1:F:321:TYR:HD2	2.31	0.49
1:F:331:PHE:CG	1:F:334:ARG:HG3	2.48	0.49
1:A:194:ARG:HA	1:A:197:ILE:HD12	1.93	0.49
1:A:211:ILE:O	1:A:213:GLU:HG2	2.13	0.49
1:A:283:ILE:CG2	1:A:288:MET:HB2	2.43	0.49
1:A:343:PRO:HG2	1:A:388:LEU:HB2	1.95	0.49
1:A:355:LEU:C	1:A:357:PRO:HD3	2.33	0.49
1:A:380:LYS:O	1:A:382:TYR:N	2.46	0.49
1:A:396:VAL:O	1:A:400:CYS:N	2.45	0.49
1:A:810:ALA:HA	1:A:813:PHE:CE1	2.47	0.49
1:B:387:ARG:O	1:B:390:ASP:HB3	2.12	0.49
1:B:631:LEU:O	1:B:633:ASN:N	2.46	0.49
1:B:656:LEU:HD12	1:B:656:LEU:O	2.12	0.49
1:B:820:SER:H	1:B:828:LEU:HD11	1.78	0.49
1:C:207:ASN:HB2	1:C:313:ILE:HG12	1.95	0.49
1:C:298:ALA:O	1:C:303:PRO:HD2	2.12	0.49
1:C:618:SER:O	1:C:621:THR:N	2.25	0.49
1:C:796:GLU:OE1	1:C:799:ASP:HB3	2.13	0.49
1:C:824:GLY:O	1:C:828:LEU:HD12	2.13	0.49
1:C:875:GLU:HG2	1:C:876:CYS:N	2.21	0.49
1:D:298:ALA:O	1:D:301:LEU:HD11	2.13	0.49
1:D:564:SER:HB3	1:D:567:GLU:HB3	1.94	0.49
1:D:606:GLN:CG	1:D:704:ASP:HB3	2.43	0.49
1:D:636:ASP:C	1:D:638:MET:H	2.16	0.49
1:E:175:THR:C	1:E:179:ARG:H	2.16	0.49
1:E:239:GLN:C	1:E:241:ALA:H	2.14	0.49
1:E:247:ASP:HB3	1:E:249:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:285:GLU:HA	1:E:287:HIS:HE1	1.75	0.49
1:E:548:GLU:HA	1:E:551:ALA:HB3	1.95	0.49
1:E:877:LEU:O	1:E:879:VAL:HG23	2.13	0.49
1:F:548:GLU:OE2	1:F:552:ARG:NH2	2.46	0.49
1:F:585:ASP:HA	1:F:588:LYS:HB2	1.94	0.49
1:F:592:ASN:O	1:F:595:ARG:HG2	2.13	0.49
1:F:612:PHE:CG	1:F:726:THR:HG22	2.48	0.49
1:F:619:GLY:O	1:F:623:LEU:N	2.41	0.49
1:A:197:ILE:HA	1:A:200:LEU:HD21	1.95	0.49
1:A:321:TYR:O	1:A:325:VAL:N	2.44	0.49
1:A:351:ILE:HG23	1:A:393:LEU:HD11	1.94	0.49
1:A:707:ARG:HG3	1:A:717:ASP:HB2	1.94	0.49
1:B:167:LEU:O	1:B:171:ALA:HB2	2.13	0.49
1:B:210:LEU:CB	1:B:339:GLU:HB3	2.42	0.49
1:B:265:PHE:CE2	1:B:297:ALA:HA	2.46	0.49
1:B:750:VAL:HG12	1:B:754:VAL:HG23	1.95	0.49
1:C:190:GLU:HB2	1:C:194:ARG:HH12	1.77	0.49
1:C:243:LEU:HA	1:C:280:VAL:O	2.13	0.49
1:C:286:ILE:C	1:C:289:LEU:H	2.16	0.49
1:C:291:GLY:CA	1:C:294:LYS:HZ3	2.25	0.49
1:C:594:VAL:HA	1:C:597:SER:OG	2.13	0.49
1:C:612:PHE:CB	1:C:727:SER:H	2.26	0.49
1:D:227:GLN:NE2	1:D:227:GLN:O	2.46	0.49
1:D:283:ILE:O	1:D:313:ILE:HD12	2.12	0.49
1:D:616:SER:HA	1:D:620:LYS:HE3	1.95	0.49
1:D:619:GLY:HA2	1:D:622:GLU:OE1	2.13	0.49
1:D:630:PHE:CG	1:D:631:LEU:N	2.79	0.49
1:E:219:THR:H	2:E:1001:AGS:PB	2.36	0.49
1:E:228:ARG:HA	1:E:231:ASP:HB2	1.94	0.49
1:E:242:LYS:H	1:E:279:ILE:CA	2.22	0.49
1:E:349:VAL:HA	1:E:352:LEU:HB2	1.95	0.49
1:E:447:LEU:O	1:E:450:GLN:HB3	2.13	0.49
1:E:514:LYS:HG2	1:E:517:ILE:HD12	1.95	0.49
1:E:707:ARG:O	1:E:708:ILE:HD13	2.12	0.49
1:E:787:ARG:HA	1:E:790:GLU:OE1	2.12	0.49
1:E:820:SER:OG	1:E:820:SER:O	2.27	0.49
1:F:605:ARG:HG2	1:F:605:ARG:HH11	1.78	0.49
1:F:827:PRO:O	1:F:831:LEU:HG	2.12	0.49
1:A:343:PRO:HG3	1:A:389:PRO:HD3	1.95	0.48
1:A:375:ALA:HA	1:A:378:LEU:HB2	1.94	0.48
1:A:598:ARG:NH2	1:A:720:ASN:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:603:ASN:HB3	1:A:605:ARG:HE	1.77	0.48
1:A:660:ALA:HA	1:A:665:TYR:HE1	1.78	0.48
1:A:675:LEU:HD13	1:A:716:ILE:HG13	1.94	0.48
1:A:698:VAL:HG12	1:A:702:MET:HG2	1.94	0.48
1:A:809:GLU:OE2	1:A:813:PHE:HB3	2.13	0.48
1:B:214:PRO:HD3	1:B:317:THR:CG2	2.42	0.48
1:B:651:ALA:O	1:B:654:LYS:HG2	2.13	0.48
1:B:841:ALA:O	1:B:844:ILE:HB	2.13	0.48
1:C:169:LYS:NZ	1:C:264:ARG:CB	2.75	0.48
1:C:318:ASN:N	1:C:318:ASN:OD1	2.47	0.48
1:C:368:LEU:C	1:C:372:LEU:HD11	2.34	0.48
1:C:557:PRO:O	1:C:559:LYS:N	2.46	0.48
1:C:628:ALA:HB1	1:C:632:PHE:H	1.78	0.48
1:C:658:THR:H	1:C:667:GLU:HB3	1.77	0.48
1:C:743:GLN:O	1:C:746:THR:HB	2.13	0.48
1:C:843:ARG:HA	1:C:846:LYS:N	2.28	0.48
1:D:220:ALA:HA	1:D:223:GLU:HB3	1.94	0.48
1:D:319:ASN:HD21	1:D:714:LYS:N	2.10	0.48
1:D:441:THR:HG22	1:D:442:LYS:N	2.27	0.48
1:D:464:GLN:HA	1:D:468:GLU:H	1.78	0.48
1:D:579:GLU:CB	1:D:626:LYS:NZ	2.76	0.48
1:D:683:LEU:N	1:D:723:VAL:HA	2.26	0.48
1:D:721:CYS:O	1:D:722:ILE:HD13	2.12	0.48
1:D:781:HIS:O	1:D:783:ILE:N	2.46	0.48
1:E:194:ARG:O	1:E:198:ARG:HG3	2.13	0.48
1:E:481:LYS:O	1:E:485:GLU:HG3	2.13	0.48
1:E:588:LYS:HG3	1:E:592:ASN:ND2	2.27	0.48
1:E:624:ALA:O	1:E:627:VAL:N	2.46	0.48
1:E:668:GLY:HA3	1:E:672:THR:CB	2.43	0.48
1:E:682:VAL:O	1:E:683:LEU:HB2	2.13	0.48
1:E:686:ASP:OD1	1:E:686:ASP:N	2.43	0.48
1:E:786:ILE:HG13	1:E:789:LYS:HZ1	1.76	0.48
1:E:791:ILE:HD13	1:E:791:ILE:HA	1.66	0.48
1:E:839:LYS:CD	1:E:879:VAL:HG13	2.43	0.48
1:E:858:VAL:CB	1:E:877:LEU:HD12	2.43	0.48
1:F:190:GLU:O	1:F:228:ARG:NH2	2.37	0.48
1:F:640:ARG:NH1	1:F:686:ASP:OD2	2.45	0.48
1:A:296:ASP:OD1	1:A:300:ILE:HB	2.13	0.48
1:A:788:LEU:HD22	1:A:804:LEU:HD21	1.95	0.48
1:B:211:ILE:HA	1:B:316:THR:O	2.12	0.48
1:B:296:ASP:HB2	1:B:300:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:SER:HA	1:B:394:ASP:CB	2.40	0.48
1:B:645:GLU:C	1:B:692:HIS:H	2.16	0.48
1:B:827:PRO:O	1:B:830:ARG:HB3	2.12	0.48
1:B:829:ASN:O	1:B:830:ARG:C	2.52	0.48
1:B:843:ARG:NE	1:B:880:LEU:O	2.46	0.48
1:C:410:LYS:N	1:C:411:PRO:HD3	2.28	0.48
1:C:499:THR:HA	1:C:502:ALA:HB3	1.94	0.48
1:D:189:ARG:C	1:D:192:GLU:OE2	2.52	0.48
1:D:260:ASP:C	1:D:263:GLU:H	2.15	0.48
1:D:272:ILE:HA	1:D:276:LYS:CE	2.43	0.48
1:D:273:GLU:HA	1:D:310:LEU:HD21	1.93	0.48
1:D:611:LEU:CB	1:D:769:ILE:HA	2.43	0.48
1:D:615:LEU:HD21	1:D:822:ASP:O	2.13	0.48
1:D:634:ASP:CG	1:D:636:ASP:HB3	2.33	0.48
1:E:350:ALA:O	1:E:354:GLY:N	2.31	0.48
1:E:368:LEU:HB3	1:E:540:VAL:HB	1.95	0.48
1:E:371:ALA:HB3	1:E:540:VAL:HG11	1.94	0.48
1:E:385:TYR:CD1	1:E:386:ARG:CZ	2.96	0.48
1:E:645:GLU:CB	1:E:649:LYS:HZ1	2.26	0.48
1:F:241:ALA:HA	1:F:279:ILE:CB	2.30	0.48
1:F:563:GLU:OE2	1:F:572:MET:N	2.46	0.48
1:F:685:PHE:O	1:F:686:ASP:OD1	2.30	0.48
1:F:751:MET:O	1:F:755:ARG:HG2	2.13	0.48
1:A:199:VAL:HG21	1:A:208:PRO:HB3	1.95	0.48
1:A:226:ALA:O	1:A:230:ILE:HG12	2.13	0.48
1:A:541:VAL:HG12	1:A:543:SER:N	2.26	0.48
1:B:191:GLU:CA	1:B:194:ARG:HB2	2.39	0.48
1:B:193:ILE:HG13	1:B:194:ARG:N	2.29	0.48
1:B:209:CYS:N	1:B:335:PHE:HZ	2.11	0.48
1:B:263:GLU:HA	1:B:266:LYS:HZ3	1.74	0.48
1:B:651:ALA:N	1:B:692:HIS:CE1	2.73	0.48
1:B:837:LEU:HD12	1:B:840:LEU:HD12	1.95	0.48
1:C:207:ASN:OD1	1:C:209:CYS:SG	2.71	0.48
1:C:214:PRO:HD3	1:C:317:THR:OG1	2.12	0.48
1:C:268:VAL:HA	1:C:271:GLU:CG	2.43	0.48
1:C:278:LEU:O	1:C:279:ILE:HG13	2.13	0.48
1:C:642:ASP:HB3	1:C:644:SER:OG	2.14	0.48
1:C:643:CYS:SG	1:C:686:ASP:HB2	2.53	0.48
1:C:643:CYS:CB	1:C:690:LYS:HB2	2.43	0.48
1:C:836:ILE:HG22	1:C:840:LEU:HB2	1.96	0.48
1:D:177:GLN:HE21	1:D:182:LYS:C	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:PRO:HA	1:D:336:GLN:C	2.34	0.48
1:D:234:VAL:HG13	1:D:235:PRO:HD2	1.96	0.48
1:D:356:GLN:NE2	1:D:367:ILE:H	2.11	0.48
1:D:618:SER:HA	1:D:826:ARG:CG	2.42	0.48
1:D:684:LEU:HD23	1:D:685:PHE:CA	2.44	0.48
1:D:748:ASN:HA	1:D:751:MET:HE3	1.94	0.48
2:D:1001:AGS:O2A	2:D:1001:AGS:PG	2.71	0.48
1:E:213:GLU:HB3	1:E:387:ARG:HD2	1.95	0.48
1:E:222:ILE:HG21	1:E:282:PHE:CE2	2.49	0.48
1:E:268:VAL:CA	1:E:271:GLU:HB2	2.42	0.48
1:E:365:VAL:CG1	1:E:407:ARG:HH11	2.23	0.48
1:E:544:ASP:N	1:E:544:ASP:OD1	2.39	0.48
1:E:572:MET:H	1:E:595:ARG:HH22	1.61	0.48
1:E:608:ALA:HB3	1:E:721:CYS:O	2.13	0.48
1:E:620:LYS:NZ	2:E:1002:AGS:O2A	2.38	0.48
1:E:667:GLU:O	1:E:672:THR:HB	2.12	0.48
1:E:803:LYS:NZ	1:E:854:THR:HG23	2.28	0.48
1:F:548:GLU:CD	1:F:552:ARG:HH12	2.13	0.48
1:F:594:VAL:N	1:F:610:PHE:HZ	2.11	0.48
1:F:700:LEU:HD23	1:F:703:LEU:HD22	0.49	0.48
1:F:704:ASP:N	1:F:765:ARG:NH1	2.62	0.48
1:F:804:LEU:O	1:F:854:THR:HA	2.12	0.48
1:A:197:ILE:HG23	1:A:235:PRO:CG	2.44	0.48
1:A:563:GLU:HA	1:A:568:LYS:CB	2.44	0.48
1:A:575:ASP:HB2	1:A:630:PHE:CZ	2.48	0.48
1:A:598:ARG:HH22	1:A:720:ASN:HA	1.76	0.48
1:A:658:THR:HG22	1:A:659:THR:N	2.27	0.48
1:A:842:LEU:HB3	1:A:846:LYS:HZ3	1.76	0.48
1:A:843:ARG:HB3	1:A:849:ILE:HG21	1.95	0.48
1:B:169:LYS:HG3	1:B:170:TYR:H	1.78	0.48
1:B:214:PRO:CA	1:B:218:LYS:HB3	2.32	0.48
1:B:344:SER:OG	1:B:347:GLN:NE2	2.46	0.48
1:B:353:ARG:HH22	1:B:372:LEU:CB	2.26	0.48
1:B:752:GLY:O	1:B:755:ARG:N	2.45	0.48
1:B:778:LYS:O	1:B:781:HIS:HB3	2.13	0.48
1:C:189:ARG:HB2	1:C:193:ILE:HG13	1.96	0.48
1:C:507:TYR:HB2	1:D:433:ARG:HB3	1.95	0.48
1:C:626:LYS:HA	1:C:635:GLU:OE1	2.13	0.48
1:C:730:GLY:O	1:C:732:GLU:N	2.47	0.48
1:C:758:PHE:CD1	1:C:762:PHE:CE2	3.01	0.48
1:C:786:ILE:HA	1:C:789:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:787:ARG:NH1	1:C:826:ARG:HE	2.12	0.48
1:C:809:GLU:HG2	1:C:810:ALA:N	2.29	0.48
1:C:843:ARG:HH21	1:C:882:ASN:HA	1.79	0.48
1:D:150:ASN:C	1:D:152:ARG:H	2.16	0.48
1:D:352:LEU:CD1	1:D:373:VAL:HG13	2.42	0.48
1:D:606:GLN:CD	1:D:704:ASP:HB3	2.34	0.48
1:D:759:ARG:NE	1:D:763:LEU:HD11	2.29	0.48
1:D:763:LEU:CD1	1:D:763:LEU:H	2.26	0.48
1:D:828:LEU:O	1:D:829:ASN:C	2.52	0.48
1:E:283:ILE:HG22	1:E:284:ASP:H	1.79	0.48
1:E:518:GLU:O	1:E:522:ASP:HB2	2.13	0.48
1:E:573:GLU:OE1	1:E:573:GLU:N	2.46	0.48
1:E:636:ASP:N	1:E:636:ASP:OD1	2.45	0.48
1:E:696:LEU:HA	1:E:699:MET:SD	2.53	0.48
1:E:771:ILE:CG2	1:E:772:PHE:N	2.77	0.48
1:E:780:ILE:HA	1:E:783:ILE:HD12	1.95	0.48
1:F:374:THR:O	1:F:378:LEU:HD13	2.14	0.48
1:F:580:VAL:HG12	1:F:581:VAL:O	2.14	0.48
1:F:625:LYS:NZ	1:F:636:ASP:O	2.44	0.48
1:F:786:ILE:O	1:F:790:GLU:N	2.38	0.48
1:F:831:LEU:O	1:F:834:ASN:N	2.25	0.48
1:A:195:SER:HA	1:A:198:ARG:CZ	2.43	0.48
1:A:302:LYS:NZ	1:A:310:LEU:C	2.67	0.48
1:A:780:ILE:HG22	1:A:783:ILE:HD12	1.95	0.48
1:A:826:ARG:HH12	1:F:304:ALA:CB	2.27	0.48
1:B:198:ARG:HB3	1:C:405:VAL:CG2	2.44	0.48
1:B:384:PRO:CG	1:B:386:ARG:HE	2.27	0.48
1:B:545:THR:CA	1:B:548:GLU:HB2	2.41	0.48
1:B:617:GLY:HA2	1:B:826:ARG:HH11	1.78	0.48
1:B:815:ALA:HA	1:B:818:GLY:HA3	1.95	0.48
1:C:14:ILE:CA	1:C:160:THR:CA	2.91	0.48
1:C:222:ILE:CA	1:C:225:VAL:HB	2.43	0.48
1:C:351:ILE:HG23	2:C:1001:AGS:C6	2.44	0.48
1:C:387:ARG:HB2	1:C:390:ASP:CG	2.33	0.48
1:C:514:LYS:HA	1:C:517:ILE:HD12	1.94	0.48
1:C:546:ILE:HA	1:C:549:THR:HB	1.94	0.48
1:D:285:GLU:CD	1:D:321:TYR:HE1	2.17	0.48
1:D:520:LEU:HA	1:D:523:GLN:OE1	2.14	0.48
1:D:579:GLU:HB2	1:D:626:LYS:HZ2	1.77	0.48
1:D:603:ASN:OD1	1:D:605:ARG:N	2.26	0.48
1:D:630:PHE:CD1	1:D:630:PHE:C	2.84	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:ALA:CA	1:D:657:GLY:HA2	2.43	0.48
1:D:654:LYS:HG3	1:D:657:GLY:H	1.78	0.48
1:E:395:LEU:O	1:E:398:ILE:N	2.47	0.48
1:E:424:ILE:HD13	1:E:448:ALA:O	2.13	0.48
1:E:478:GLN:CA	1:E:481:LYS:HB3	2.41	0.48
1:E:580:VAL:HG12	2:E:1002:AGS:C6	2.44	0.48
1:E:583:GLN:NE2	1:E:772:PHE:HA	2.29	0.48
1:E:737:GLN:C	1:E:774:LYS:HZ3	2.06	0.48
1:E:806:LEU:HG	1:E:855:VAL:HB	1.96	0.48
1:F:220:ALA:O	1:F:224:GLY:N	2.26	0.48
1:F:245:SER:HA	1:F:283:ILE:CD1	2.43	0.48
1:A:196:THR:HA	1:A:199:VAL:CG2	2.43	0.48
1:A:331:PHE:CG	1:A:332:GLU:N	2.81	0.48
1:A:343:PRO:HG2	1:A:388:LEU:HD12	1.95	0.48
1:A:592:ASN:O	1:A:596:LEU:N	2.40	0.48
1:A:814:LEU:HA	1:A:817:TYR:CD2	2.48	0.48
1:B:173:ASP:CB	1:B:177:GLN:HG3	2.43	0.48
1:B:246:LEU:HB3	1:B:249:ALA:HB3	1.96	0.48
1:B:334:ARG:CZ	1:B:334:ARG:HB2	2.43	0.48
1:B:403:VAL:O	1:B:407:ARG:HG2	2.13	0.48
1:B:671:LEU:HD12	1:B:672:THR:H	1.77	0.48
1:B:748:ASN:O	1:B:751:MET:N	2.45	0.48
1:B:814:LEU:O	1:B:818:GLY:N	2.47	0.48
1:C:291:GLY:N	1:C:294:LYS:NZ	2.60	0.48
1:C:319:ASN:O	1:C:323:SER:OG	2.25	0.48
1:C:417:LYS:HG2	1:C:456:GLN:NE2	2.25	0.48
1:C:534:ASN:CB	1:C:537:ILE:HA	2.43	0.48
1:C:571:HIS:HA	1:C:574:ARG:CG	2.40	0.48
1:C:682:VAL:HB	1:C:722:ILE:HG23	1.96	0.48
1:C:705:ASP:O	1:C:717:ASP:OD2	2.32	0.48
1:C:825:ALA:CA	1:C:828:LEU:HB2	2.44	0.48
1:C:839:LYS:NZ	1:C:881:PRO:N	2.62	0.48
1:D:193:ILE:HG12	1:D:222:ILE:HD12	1.96	0.48
1:D:362:HIS:CD2	1:D:363:HIS:ND1	2.82	0.48
1:D:452:GLU:HA	1:D:455:LEU:HD12	1.94	0.48
1:D:566:ASN:O	1:D:570:ILE:HG13	2.14	0.48
1:D:616:SER:O	1:D:823:MET:HE2	2.14	0.48
1:D:640:ARG:HG2	1:D:640:ARG:HH11	1.79	0.48
1:D:708:ILE:CG1	1:D:716:ILE:HB	2.44	0.48
1:D:845:LEU:HG	1:D:846:LYS:HG3	1.95	0.48
1:E:376:ALA:HA	1:E:395:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:544:ASP:O	1:E:545:THR:C	2.52	0.48
1:E:584:MET:HA	1:E:587:ILE:HD12	1.94	0.48
1:E:612:PHE:HA	1:E:771:ILE:HG13	1.94	0.48
1:E:622:GLU:CA	1:E:625:LYS:HD3	2.43	0.48
1:E:627:VAL:C	1:E:631:LEU:HG	2.34	0.48
1:E:723:VAL:HG13	1:E:724:ILE:O	2.13	0.48
1:E:775:LEU:HD23	1:E:775:LEU:HA	1.54	0.48
1:E:823:MET:O	1:E:826:ARG:HG2	2.13	0.48
1:F:193:ILE:CG2	1:F:225:VAL:HG22	2.44	0.48
1:F:286:ILE:HG22	1:F:289:LEU:HD12	1.96	0.48
1:F:287:HIS:HD2	1:F:316:THR:HG21	1.78	0.48
1:F:637:MET:HB3	1:F:682:VAL:N	2.28	0.48
1:A:194:ARG:HA	1:A:197:ILE:HB	1.95	0.48
1:A:213:GLU:HB2	1:A:218:LYS:HZ1	1.75	0.48
1:A:234:VAL:CG1	1:A:238:LEU:HB2	2.44	0.48
1:A:262:GLU:HB3	1:A:266:LYS:CB	2.43	0.48
1:A:344:SER:OG	1:A:345:VAL:N	2.47	0.48
1:A:373:VAL:O	1:A:376:ALA:N	2.38	0.48
1:A:563:GLU:HA	1:A:568:LYS:HB3	1.95	0.48
1:A:641:VAL:HG21	1:A:683:LEU:HD21	1.96	0.48
1:A:659:THR:HA	1:A:667:GLU:HB3	1.96	0.48
1:B:199:VAL:HG12	1:B:206:SER:O	2.13	0.48
1:B:394:ASP:O	1:B:398:ILE:HB	2.14	0.48
1:B:646:LEU:H	1:B:691:ALA:CA	2.27	0.48
1:B:704:ASP:O	1:B:707:ARG:HG2	2.13	0.48
1:B:731:ALA:C	1:B:733:PHE:N	2.65	0.48
1:B:831:LEU:O	1:B:834:ASN:N	2.47	0.48
1:C:60:TYR:H	1:C:136:ASP:N	2.12	0.48
1:C:208:PRO:O	1:C:336:GLN:C	2.51	0.48
1:C:303:PRO:C	1:C:333:ARG:HH22	2.17	0.48
1:C:577:SER:O	1:C:581:VAL:HG23	2.13	0.48
1:C:834:ASN:HA	1:C:837:LEU:CD2	2.43	0.48
1:D:192:GLU:CG	1:D:193:ILE:N	2.76	0.48
1:D:213:GLU:HB3	1:D:387:ARG:HD2	1.96	0.48
1:D:395:LEU:HA	1:D:398:ILE:HD12	1.95	0.48
1:D:419:ARG:O	1:D:423:LEU:HD12	2.14	0.48
1:D:611:LEU:H	1:D:769:ILE:CA	2.25	0.48
1:D:785:ASP:O	1:D:786:ILE:C	2.52	0.48
1:D:833:GLN:O	1:D:836:ILE:N	2.47	0.48
1:E:202:ARG:NH1	1:E:336:GLN:HE21	2.11	0.48
1:E:347:GLN:OE1	1:E:347:GLN:N	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:643:CYS:CA	1:E:649:LYS:HZ3	2.27	0.48
1:F:211:ILE:HG13	1:F:337:LYS:HD2	1.96	0.48
1:F:581:VAL:HG12	1:F:582:GLY:N	2.23	0.48
1:F:638:MET:HB2	1:F:681:SER:HB2	1.95	0.48
1:F:760:PRO:O	1:F:763:LEU:N	2.47	0.48
1:A:247:ASP:OD2	1:A:284:ASP:HB2	2.13	0.48
1:A:549:THR:HA	1:A:552:ARG:HH12	1.76	0.48
1:A:621:THR:OG1	1:A:622:GLU:N	2.46	0.48
1:A:655:LEU:O	1:A:672:THR:OG1	2.31	0.48
1:A:659:THR:HG22	1:A:660:ALA:N	2.27	0.48
1:B:187:ILE:H	1:B:351:ILE:CD1	2.26	0.48
1:B:244:PHE:CE2	1:B:281:LEU:O	2.67	0.48
1:B:607:PRO:HB3	1:B:722:ILE:HG12	1.95	0.48
1:B:775:LEU:HB3	1:B:779:ALA:HB3	1.95	0.48
1:B:785:ASP:HA	1:B:788:LEU:HD11	1.94	0.48
1:B:805:ASN:ND2	1:B:855:VAL:O	2.47	0.48
1:C:211:ILE:CG2	1:C:316:THR:H	2.26	0.48
1:C:228:ARG:HH22	1:D:409:SER:CB	2.26	0.48
1:C:228:ARG:HA	1:C:231:ASP:CG	2.34	0.48
1:C:397:ASP:O	1:C:400:CYS:N	2.46	0.48
1:C:400:CYS:O	1:C:403:VAL:HB	2.13	0.48
1:C:570:ILE:O	1:C:573:GLU:HB3	2.13	0.48
1:C:652:VAL:HG12	1:C:654:LYS:HG2	1.94	0.48
1:C:767:SER:CA	1:D:830:ARG:NH1	2.72	0.48
1:D:245:SER:HA	1:D:282:PHE:HB3	1.95	0.48
1:D:317:THR:CG2	1:D:321:TYR:CZ	2.93	0.48
1:D:367:ILE:HG22	1:D:369:ASP:N	2.29	0.48
1:D:530:ARG:HH12	1:D:537:ILE:CA	2.26	0.48
1:D:577:SER:O	1:D:580:VAL:HB	2.14	0.48
1:E:285:GLU:HG2	1:E:288:MET:HB3	1.96	0.48
1:E:585:ASP:O	1:E:588:LYS:N	2.46	0.48
1:E:695:VAL:O	1:E:698:VAL:N	2.47	0.48
1:E:800:LYS:HE2	1:E:850:LYS:HB3	1.95	0.48
1:E:837:LEU:O	1:E:840:LEU:HB2	2.14	0.48
1:F:261:PHE:CD2	1:F:297:ALA:HA	2.49	0.48
1:F:569:LEU:HD23	1:F:594:VAL:HG12	1.96	0.48
1:F:674:GLN:HA	1:F:677:TYR:HD2	1.78	0.48
1:F:742:ILE:HG22	1:F:747:LYS:HZ1	1.77	0.48
1:F:778:LYS:HG3	1:F:779:ALA:N	2.29	0.48
1:A:213:GLU:O	1:A:215:GLY:N	2.44	0.48
1:A:274:GLU:CA	1:A:276:LYS:NZ	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:LYS:HA	1:A:299:ASN:ND2	2.29	0.48
1:A:613:LEU:HD22	1:A:728:ALA:N	2.29	0.48
1:A:639:ILE:CD1	1:A:674:GLN:HB3	2.43	0.48
1:B:331:PHE:HD1	1:B:334:ARG:NH2	2.11	0.48
1:B:563:GLU:OE2	1:B:564:SER:O	2.31	0.48
1:B:613:LEU:HD11	1:B:771:ILE:HG23	1.96	0.48
1:B:789:LYS:O	1:B:793:GLU:OE2	2.31	0.48
1:C:175:THR:N	1:C:242:LYS:HE2	2.26	0.48
1:C:193:ILE:O	1:C:194:ARG:C	2.51	0.48
1:C:217:GLY:HA2	2:C:1001:AGS:O3A	2.14	0.48
1:C:410:LYS:HD3	1:C:470:LYS:HZ2	1.79	0.48
1:C:696:LEU:CA	1:C:699:MET:HG2	2.43	0.48
1:C:839:LYS:HZ1	1:C:880:LEU:CA	2.27	0.48
1:C:850:LYS:HG3	1:C:851:ASP:CG	2.34	0.48
1:D:183:LEU:HA	1:D:183:LEU:HD23	1.73	0.48
1:D:285:GLU:OE1	1:D:321:TYR:HE1	1.97	0.48
1:D:285:GLU:OE2	1:D:315:ALA:HB3	2.13	0.48
1:D:616:SER:C	1:D:618:SER:N	2.66	0.48
1:D:684:LEU:HA	1:D:725:MET:CG	2.43	0.48
1:D:728:ALA:HB1	1:D:734:ILE:HD13	1.94	0.48
1:D:855:VAL:HG23	1:D:880:LEU:HD13	1.94	0.48
1:E:428:ILE:O	1:E:445:LEU:HD11	2.14	0.48
1:E:543:SER:O	1:E:546:ILE:HG12	2.14	0.48
1:E:551:ALA:HA	1:E:555:GLY:N	2.29	0.48
1:E:606:GLN:CD	1:F:794:ARG:NH1	2.67	0.48
1:E:622:GLU:O	1:E:625:LYS:HB2	2.14	0.48
1:E:626:LYS:HZ2	1:E:635:GLU:CD	2.15	0.48
1:E:745:SER:N	1:E:747:LYS:NZ	2.62	0.48
1:E:758:PHE:O	1:E:762:PHE:HB3	2.13	0.48
1:E:808:GLN:CD	1:E:809:GLU:H	2.15	0.48
1:F:265:PHE:HZ	1:F:305:LEU:HD22	1.79	0.48
1:F:294:LYS:HG3	1:F:325:VAL:CG1	2.44	0.48
1:A:283:ILE:N	1:A:312:VAL:HG23	2.22	0.48
1:A:316:THR:OG1	1:A:317:THR:N	2.47	0.48
1:A:549:THR:CA	1:A:552:ARG:NH1	2.72	0.48
1:A:610:PHE:HB3	1:A:767:SER:OG	2.14	0.48
1:A:685:PHE:HB2	1:A:725:MET:CG	2.39	0.48
1:A:751:MET:HG2	1:A:751:MET:O	2.14	0.48
1:B:173:ASP:OD1	1:B:173:ASP:O	2.31	0.48
1:B:298:ALA:O	1:B:302:LYS:HB2	2.14	0.48
1:B:319:ASN:O	1:B:322:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:559:LYS:NZ	1:B:631:LEU:O	2.38	0.48
1:B:704:ASP:CB	1:B:707:ARG:HH11	2.27	0.48
1:C:183:LEU:HA	1:C:183:LEU:HD23	1.65	0.48
1:C:193:ILE:O	1:C:196:THR:N	2.47	0.48
1:C:211:ILE:HG13	1:C:340:VAL:CG1	2.44	0.48
1:C:281:LEU:CD2	1:C:311:LYS:H	2.27	0.48
1:C:321:TYR:CE1	1:C:331:PHE:CZ	3.01	0.48
1:C:500:ALA:O	1:C:504:ASP:HB2	2.14	0.48
1:C:698:VAL:O	1:C:701:GLN:HB3	2.14	0.48
1:C:751:MET:HA	1:C:755:ARG:NH1	2.28	0.48
1:D:172:ILE:N	1:D:245:SER:H	2.11	0.48
1:D:179:ARG:NH2	1:D:230:ILE:HG21	2.26	0.48
1:D:196:THR:HA	1:D:199:VAL:HB	1.96	0.48
1:D:213:GLU:HG2	1:D:387:ARG:CZ	2.44	0.48
1:D:235:PRO:HG3	1:E:408:ASP:CA	2.44	0.48
1:D:333:ARG:NH2	2:E:1001:AGS:O1B	2.47	0.48
1:D:403:VAL:O	1:D:406:ALA:N	2.47	0.48
1:D:507:TYR:HE1	1:E:425:GLN:O	1.97	0.48
1:D:752:GLY:HA2	1:D:755:ARG:NE	2.29	0.48
1:D:853:GLU:HG2	1:D:854:THR:OG1	2.13	0.48
1:E:282:PHE:HB2	1:E:313:ILE:O	2.14	0.48
1:E:409:SER:HA	1:E:470:LYS:NZ	2.29	0.48
1:E:612:PHE:O	1:E:613:LEU:HB2	2.14	0.48
1:E:613:LEU:CG	1:E:728:ALA:HA	2.43	0.48
1:E:668:GLY:CA	1:E:672:THR:H	2.27	0.48
1:E:802:TYR:HD1	1:E:852:LYS:HG2	1.78	0.48
1:E:826:ARG:NH2	2:E:1002:AGS:H1'	2.28	0.48
1:F:403:VAL:O	1:F:407:ARG:N	2.33	0.48
1:F:645:GLU:OE1	1:F:645:GLU:N	2.37	0.48
1:F:678:LYS:NZ	1:F:679:PRO:C	2.67	0.48
1:F:751:MET:CE	1:F:755:ARG:HD3	2.44	0.48
1:A:166:TYR:CZ	1:A:170:TYR:CE2	3.02	0.47
1:A:235:PRO:O	1:A:236:THR:C	2.53	0.47
1:A:287:HIS:CG	1:A:290:MET:HB2	2.49	0.47
1:A:346:ARG:HH11	1:A:349:VAL:CG1	2.27	0.47
1:A:709:THR:HG22	1:A:710:SER:N	2.28	0.47
1:A:727:SER:C	1:A:729:LEU:H	2.16	0.47
1:A:828:LEU:CD1	1:A:831:LEU:HD22	2.44	0.47
1:A:835:GLU:OE1	1:A:835:GLU:N	2.36	0.47
1:B:209:CYS:CB	1:B:315:ALA:HB2	2.35	0.47
1:B:265:PHE:CA	1:B:268:VAL:HB	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:543:SER:O	1:B:544:ASP:HB3	2.13	0.47
1:B:571:HIS:O	1:B:574:ARG:HB2	2.13	0.47
1:B:606:GLN:HA	1:B:705:ASP:O	2.14	0.47
1:C:342:GLU:OE2	1:C:389:PRO:CD	2.62	0.47
1:C:465:ARG:HA	1:C:468:GLU:HB3	1.96	0.47
1:C:606:GLN:HE22	1:C:704:ASP:CA	2.26	0.47
1:C:813:PHE:HA	1:C:816:LYS:HB3	1.96	0.47
1:C:833:GLN:CA	1:C:836:ILE:HG12	2.42	0.47
1:D:190:GLU:CG	1:D:191:GLU:N	2.77	0.47
1:D:333:ARG:CZ	2:E:1001:AGS:O3G	2.61	0.47
1:D:349:VAL:HG12	1:D:353:ARG:HG2	1.96	0.47
1:D:752:GLY:HA2	1:D:755:ARG:HE	1.79	0.47
1:D:800:LYS:NZ	1:D:801:HIS:CE1	2.82	0.47
1:D:828:LEU:O	1:D:832:ILE:HG13	2.14	0.47
1:D:836:ILE:O	1:D:840:LEU:HG	2.14	0.47
1:E:230:ILE:CG2	1:E:495:ARG:HE	2.27	0.47
1:E:284:ASP:CA	1:E:315:ALA:H	2.27	0.47
1:E:377:GLN:O	1:E:380:LYS:HB3	2.13	0.47
1:E:420:GLN:HA	1:E:423:LEU:HD12	1.94	0.47
1:E:566:ASN:O	1:E:570:ILE:HG23	2.14	0.47
1:E:654:LYS:HZ2	1:E:698:VAL:CG1	2.26	0.47
1:E:685:PHE:O	1:E:726:THR:OG1	2.04	0.47
1:F:285:GLU:HA	1:F:315:ALA:H	1.79	0.47
1:F:378:LEU:O	1:F:381:ARG:O	2.31	0.47
1:F:382:TYR:CD2	1:F:383:LEU:HG	2.49	0.47
1:F:670:PHE:O	1:F:673:ASN:N	2.47	0.47
1:F:831:LEU:HA	1:F:834:ASN:OD1	2.12	0.47
1:A:625:LYS:O	1:A:629:GLY:N	2.47	0.47
1:A:640:ARG:HA	1:A:684:LEU:CG	2.37	0.47
1:A:793:GLU:OE1	1:A:793:GLU:N	2.47	0.47
1:B:236:THR:OG1	1:B:237:ILE:HG23	2.14	0.47
1:B:286:ILE:HG13	1:B:320:GLU:CG	2.44	0.47
1:B:323:SER:CB	1:B:327:LYS:NZ	2.77	0.47
1:B:361:ILE:O	1:B:364:GLY:N	2.47	0.47
1:B:583:GLN:HE21	1:B:773:ASN:N	2.12	0.47
1:B:618:SER:OG	1:B:619:GLY:N	2.40	0.47
1:B:785:ASP:OD1	1:B:785:ASP:N	2.43	0.47
1:B:804:LEU:HA	1:B:855:VAL:CG2	2.40	0.47
1:C:276:LYS:HB2	1:C:276:LYS:HE2	1.55	0.47
1:C:302:LYS:HD2	1:C:305:LEU:C	2.34	0.47
1:C:385:TYR:HE2	1:C:386:ARG:CZ	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:SER:OG	1:C:682:VAL:O	2.28	0.47
1:C:843:ARG:HA	1:C:846:LYS:H	1.79	0.47
1:D:208:PRO:HA	1:D:336:GLN:O	2.13	0.47
1:D:565:GLU:N	1:D:565:GLU:CD	2.63	0.47
1:D:645:GLU:O	1:D:646:LEU:HB3	2.13	0.47
1:D:692:HIS:HE1	1:D:694:ASP:HB2	1.79	0.47
1:D:710:SER:HB3	1:D:714:LYS:HB3	1.96	0.47
1:D:795:PHE:N	1:D:795:PHE:CD1	2.82	0.47
1:E:172:ILE:HB	1:E:245:SER:HB3	1.96	0.47
1:E:440:THR:HA	1:E:443:ASP:HB2	1.97	0.47
1:E:484:ASP:O	1:E:488:ASN:N	2.33	0.47
1:E:486:LEU:HD23	1:E:489:LYS:CE	2.44	0.47
1:E:676:GLN:CG	1:E:677:TYR:N	2.77	0.47
1:E:680:TYR:HA	1:E:720:ASN:CB	2.44	0.47
1:E:872:GLU:N	1:E:875:GLU:HB3	2.28	0.47
1:F:785:ASP:O	1:F:789:LYS:N	2.26	0.47
1:A:563:GLU:HB3	1:A:568:LYS:NZ	2.30	0.47
1:A:612:PHE:HB2	1:A:771:ILE:CA	2.44	0.47
1:B:180:GLN:HG3	1:B:182:LYS:HZ2	1.78	0.47
1:B:254:GLY:N	1:B:260:ASP:OD2	2.47	0.47
1:B:321:TYR:CZ	1:B:325:VAL:HG21	2.49	0.47
1:B:354:GLY:O	1:B:357:PRO:HD2	2.13	0.47
1:B:607:PRO:HA	1:B:722:ILE:HD11	1.97	0.47
1:B:713:GLY:O	1:B:715:THR:HG23	2.14	0.47
1:B:744:GLU:N	1:B:747:LYS:HE3	2.28	0.47
1:C:177:GLN:O	1:C:182:LYS:HD2	2.14	0.47
1:C:255:ALA:CB	1:C:256:LYS:HZ3	2.26	0.47
1:C:370:SER:OG	1:C:371:ALA:N	2.47	0.47
1:C:459:LEU:HA	1:C:462:LEU:HB2	1.96	0.47
1:D:198:ARG:NH1	1:E:403:VAL:C	2.67	0.47
1:D:406:ALA:O	1:D:412:GLU:HB2	2.14	0.47
1:D:469:GLU:OE1	1:D:535:SER:N	2.48	0.47
1:D:656:LEU:HG	1:D:710:SER:C	2.34	0.47
1:D:710:SER:C	1:D:713:GLY:H	2.16	0.47
1:D:748:ASN:HA	1:D:751:MET:CE	2.43	0.47
1:D:839:LYS:HZ3	1:D:879:VAL:H	1.59	0.47
1:E:265:PHE:O	1:E:268:VAL:HB	2.15	0.47
1:E:269:LEU:O	1:E:272:ILE:HB	2.15	0.47
1:E:403:VAL:O	1:E:406:ALA:HB3	2.14	0.47
1:E:671:LEU:O	1:E:675:LEU:HB2	2.14	0.47
1:E:701:GLN:HE21	1:E:708:ILE:N	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:740:SER:OG	1:E:741:LYS:N	2.47	0.47
1:E:786:ILE:CA	1:E:789:LYS:NZ	2.77	0.47
1:F:175:THR:HB	1:F:230:ILE:HD11	1.94	0.47
1:F:294:LYS:HG3	1:F:325:VAL:HG12	1.95	0.47
1:F:360:GLU:OE1	1:F:367:ILE:CG2	2.62	0.47
1:F:812:ASP:CB	1:F:816:LYS:NZ	2.76	0.47
1:A:205:LYS:CE	1:B:398:ILE:HG13	2.45	0.47
1:A:262:GLU:CG	1:A:301:LEU:HD13	2.44	0.47
1:A:787:ARG:C	1:A:790:GLU:HB3	2.35	0.47
1:B:272:ILE:HG12	1:B:279:ILE:O	2.14	0.47
1:B:610:PHE:CD1	1:B:767:SER:HB2	2.49	0.47
1:B:640:ARG:HA	1:B:684:LEU:HD13	1.97	0.47
1:B:693:PRO:CD	1:B:694:ASP:N	2.78	0.47
1:B:709:THR:CA	1:B:715:THR:HG22	2.45	0.47
1:B:843:ARG:CZ	1:B:848:GLU:OE2	2.57	0.47
1:C:168:SER:CB	1:C:264:ARG:HE	2.27	0.47
1:C:281:LEU:N	1:C:311:LYS:O	2.42	0.47
1:C:300:ILE:HG23	1:D:248:LEU:HD11	1.97	0.47
1:C:417:LYS:CE	1:C:459:LEU:HB3	2.45	0.47
1:C:472:GLY:O	1:C:475:GLU:HG2	2.14	0.47
1:C:610:PHE:HA	1:C:768:SER:HB3	1.96	0.47
1:C:850:LYS:HZ2	1:C:851:ASP:CG	2.10	0.47
1:D:162:THR:O	1:D:165:GLU:OE2	2.33	0.47
1:D:228:ARG:HA	1:D:231:ASP:HB2	1.95	0.47
1:D:357:PRO:O	1:D:360:GLU:HB2	2.13	0.47
1:D:537:ILE:HA	1:D:540:VAL:HG12	1.97	0.47
1:D:718:CYS:C	1:D:720:ASN:N	2.67	0.47
1:D:829:ASN:O	1:D:832:ILE:HB	2.14	0.47
1:E:303:PRO:HB2	1:E:307:ARG:NH2	2.29	0.47
1:E:614:GLY:H	1:E:728:ALA:HB1	1.78	0.47
1:E:634:ASP:OD1	1:E:636:ASP:OD2	2.32	0.47
1:E:848:GLU:O	1:E:849:ILE:HD13	2.15	0.47
1:F:166:TYR:CZ	1:F:263:GLU:OE2	2.67	0.47
1:F:202:ARG:HH12	1:F:208:PRO:CG	2.28	0.47
1:F:236:THR:O	1:F:239:GLN:HB2	2.14	0.47
1:F:701:GLN:HB2	1:F:709:THR:HG1	1.79	0.47
1:F:859:LEU:HB2	1:F:876:CYS:CB	2.44	0.47
1:A:286:ILE:CD1	1:A:321:TYR:HD2	2.27	0.47
1:A:544:ASP:HA	1:A:548:GLU:CG	2.44	0.47
1:A:579:GLU:OE2	1:A:580:VAL:HG23	2.14	0.47
1:A:597:SER:OG	1:A:598:ARG:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:SER:HG	1:A:598:ARG:N	2.13	0.47
1:B:174:MET:H	1:B:177:GLN:NE2	2.13	0.47
1:B:185:PRO:HB3	1:B:227:GLN:HE22	1.80	0.47
1:B:204:ILE:HG22	1:B:205:LYS:H	1.80	0.47
1:B:344:SER:N	1:B:347:GLN:HE22	2.13	0.47
1:B:353:ARG:NE	1:B:369:ASP:HB2	2.30	0.47
1:B:759:ARG:HG3	1:B:761:GLU:OE2	2.14	0.47
1:B:839:LYS:C	1:B:842:LEU:HD13	2.34	0.47
1:C:46:GLY:O	1:C:50:TYR:N	2.48	0.47
1:C:205:LYS:HZ1	1:C:333:ARG:CA	2.28	0.47
1:C:217:GLY:HA2	2:C:1001:AGS:H4'	1.95	0.47
1:C:286:ILE:HA	1:C:289:LEU:CB	2.42	0.47
1:C:479:ALA:HB1	1:C:516:GLN:HE21	1.79	0.47
1:C:545:THR:C	1:C:548:GLU:OE2	2.53	0.47
1:C:650:TYR:CZ	1:C:652:VAL:O	2.68	0.47
1:C:656:LEU:O	1:C:668:GLY:HA3	2.14	0.47
1:C:787:ARG:HH12	1:C:826:ARG:HH21	1.58	0.47
1:D:190:GLU:HG2	1:D:194:ARG:NE	2.28	0.47
1:D:191:GLU:OE2	1:D:194:ARG:CZ	2.56	0.47
1:D:343:PRO:HA	1:D:347:GLN:NE2	2.30	0.47
1:D:350:ALA:O	1:D:353:ARG:HB2	2.15	0.47
1:D:399:SER:H	1:D:399:SER:HG	1.34	0.47
1:D:456:GLN:HG3	1:D:459:LEU:CD1	2.41	0.47
1:D:580:VAL:N	1:D:626:LYS:NZ	2.63	0.47
1:D:610:PHE:HA	1:D:768:SER:C	2.35	0.47
1:D:638:MET:C	1:D:640:ARG:HH12	2.18	0.47
1:D:839:LYS:O	1:D:842:LEU:HB3	2.15	0.47
1:E:166:TYR:HB3	1:E:169:LYS:CG	2.44	0.47
1:E:189:ARG:HB2	1:E:193:ILE:HD11	1.95	0.47
1:E:190:GLU:O	1:E:193:ILE:N	2.48	0.47
1:E:222:ILE:O	1:E:226:ALA:N	2.22	0.47
1:E:256:LYS:HZ1	1:E:264:ARG:CG	2.28	0.47
1:E:628:ALA:HA	1:E:631:LEU:HD12	1.97	0.47
1:E:859:LEU:C	1:E:877:LEU:HG	2.35	0.47
1:F:363:HIS:CE1	1:F:397:ASP:N	2.82	0.47
1:F:589:ALA:C	1:F:768:SER:HG	2.18	0.47
1:F:642:ASP:O	1:F:645:GLU:OE2	2.31	0.47
1:F:702:MET:CE	1:F:708:ILE:HG12	2.44	0.47
1:A:227:GLN:HG3	1:A:228:ARG:N	2.27	0.47
1:A:643:CYS:SG	1:A:688:VAL:HB	2.54	0.47
1:A:675:LEU:HB3	1:A:716:ILE:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:839:LYS:HZ1	1:A:879:VAL:HA	1.79	0.47
1:A:872:GLU:OE2	1:F:237:ILE:HD13	2.14	0.47
1:B:211:ILE:HG23	1:B:318:ASN:HA	1.97	0.47
1:B:583:GLN:O	1:B:587:ILE:HD12	2.15	0.47
1:B:645:GLU:CA	1:B:691:ALA:HB3	2.18	0.47
1:B:663:VAL:HG13	1:B:665:TYR:O	2.15	0.47
1:B:695:VAL:O	1:B:698:VAL:N	2.48	0.47
1:B:746:THR:O	1:B:750:VAL:HG23	2.14	0.47
1:B:777:ARG:O	1:B:780:ILE:N	2.47	0.47
1:B:807:THR:OG1	1:B:809:GLU:N	2.45	0.47
1:B:824:GLY:O	1:B:828:LEU:HG	2.14	0.47
1:B:843:ARG:NH1	1:B:848:GLU:HG2	2.29	0.47
1:C:189:ARG:HH22	1:C:341:ALA:C	2.18	0.47
1:C:217:GLY:N	2:C:1001:AGS:PB	2.86	0.47
1:C:370:SER:O	1:C:372:LEU:N	2.47	0.47
1:C:568:LYS:NZ	1:C:630:PHE:CD1	2.81	0.47
1:C:673:ASN:HA	1:C:676:GLN:OE1	2.14	0.47
1:D:210:LEU:CA	1:D:316:THR:HG22	2.44	0.47
1:D:283:ILE:N	1:D:313:ILE:O	2.47	0.47
1:D:345:VAL:HG12	1:D:346:ARG:N	2.29	0.47
1:D:799:ASP:OD2	1:D:850:LYS:HE3	2.15	0.47
1:E:176:GLU:O	1:E:180:GLN:N	2.36	0.47
1:E:187:ILE:HG22	1:E:188:GLY:N	2.29	0.47
1:E:270:LYS:O	1:E:274:GLU:HG2	2.14	0.47
1:E:805:ASN:H	1:E:854:THR:HA	1.78	0.47
1:F:544:ASP:HA	1:F:547:SER:HB3	1.96	0.47
1:F:629:GLY:HA2	1:F:634:ASP:O	2.14	0.47
1:F:685:PHE:CD1	1:F:725:MET:HG3	2.48	0.47
1:F:799:ASP:O	1:F:800:LYS:HD3	2.15	0.47
1:A:196:THR:O	1:A:199:VAL:N	2.48	0.47
1:A:211:ILE:O	1:A:211:ILE:HG22	2.15	0.47
1:A:211:ILE:HG23	1:A:318:ASN:HA	1.96	0.47
1:A:222:ILE:O	1:A:225:VAL:HB	2.14	0.47
1:A:248:LEU:CD1	1:A:254:GLY:H	2.27	0.47
1:A:260:ASP:OD1	1:A:264:ARG:HB2	2.14	0.47
1:A:324:ILE:HG22	1:A:328:ASP:OD1	2.15	0.47
1:A:599:SER:HB2	1:A:601:LEU:CD1	2.45	0.47
1:A:702:MET:SD	1:A:709:THR:N	2.86	0.47
1:A:751:MET:HG2	1:A:755:ARG:HH12	1.78	0.47
1:A:828:LEU:HG	1:A:832:ILE:HG13	1.96	0.47
1:B:174:MET:CG	1:B:244:PHE:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:SER:CB	1:B:198:ARG:NH1	2.77	0.47
1:B:210:LEU:HA	1:B:339:GLU:HB3	1.97	0.47
1:B:296:ASP:OD1	1:B:296:ASP:O	2.32	0.47
1:B:393:LEU:HA	1:B:396:VAL:CB	2.40	0.47
1:B:625:LYS:HA	1:B:635:GLU:HG2	1.97	0.47
1:B:645:GLU:C	1:B:646:LEU:HD23	2.34	0.47
1:B:654:LYS:HD2	1:B:695:VAL:HG23	1.97	0.47
1:C:210:LEU:O	1:C:338:ILE:HG13	2.14	0.47
1:C:243:LEU:HD12	1:C:280:VAL:HB	1.96	0.47
1:C:244:PHE:HB2	1:C:246:LEU:HD11	1.97	0.47
1:C:338:ILE:HD12	1:C:339:GLU:O	2.14	0.47
1:C:515:LYS:O	1:C:519:LYS:HG2	2.15	0.47
1:C:596:LEU:C	1:C:599:SER:H	2.17	0.47
1:C:626:LYS:HE3	1:C:626:LYS:HB3	1.65	0.47
1:C:743:GLN:HB3	1:C:745:SER:N	2.30	0.47
1:C:799:ASP:N	1:C:799:ASP:OD1	2.46	0.47
1:C:819:TYR:OH	1:C:821:ASP:HA	2.15	0.47
1:C:843:ARG:NH1	1:C:846:LYS:HE3	2.29	0.47
1:D:102:ILE:N	1:D:110:PHE:O	2.48	0.47
1:D:213:GLU:CG	1:D:387:ARG:HD2	2.45	0.47
1:D:294:LYS:NZ	1:D:327:LYS:HD2	2.29	0.47
1:D:321:TYR:O	1:D:325:VAL:N	2.47	0.47
1:D:357:PRO:HB2	1:D:358:LYS:HD2	1.97	0.47
1:D:369:ASP:CG	1:D:372:LEU:HD22	2.34	0.47
1:D:429:LYS:HE3	1:D:449:ARG:HH21	1.79	0.47
1:D:487:GLU:O	1:D:490:ALA:HB3	2.13	0.47
1:D:537:ILE:HG13	1:D:540:VAL:HG12	1.97	0.47
1:D:572:MET:HA	1:D:575:ASP:CB	2.41	0.47
1:D:613:LEU:HG	1:D:614:GLY:N	2.29	0.47
1:D:619:GLY:CA	1:D:622:GLU:HB2	2.44	0.47
1:D:637:MET:CA	1:D:678:LYS:HZ3	2.27	0.47
1:D:684:LEU:HD11	1:D:726:THR:OG1	2.14	0.47
1:D:785:ASP:OD2	1:D:806:LEU:HD22	2.14	0.47
1:D:809:GLU:HG2	1:D:810:ALA:N	2.29	0.47
1:D:810:ALA:O	1:D:812:ASP:N	2.48	0.47
1:D:848:GLU:O	1:D:849:ILE:HG13	2.14	0.47
1:E:166:TYR:HD2	1:E:168:SER:OG	1.97	0.47
1:E:172:ILE:HG12	1:E:246:LEU:HA	1.96	0.47
1:E:216:ILE:HD12	1:E:390:ASP:HB2	1.97	0.47
1:E:244:PHE:H	1:E:281:LEU:HA	1.78	0.47
1:E:262:GLU:HA	1:E:265:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:477:THR:O	1:E:480:LYS:HB2	2.15	0.47
1:E:485:GLU:C	1:E:489:LYS:NZ	2.64	0.47
1:E:543:SER:O	1:E:545:THR:N	2.47	0.47
1:E:611:LEU:HD21	1:E:727:SER:OG	2.14	0.47
1:E:791:ILE:HG22	1:E:795:PHE:HB2	1.97	0.47
1:E:815:ALA:O	1:E:818:GLY:N	2.48	0.47
1:F:210:LEU:HA	1:F:338:ILE:O	2.15	0.47
1:F:343:PRO:HG3	1:F:388:LEU:HD23	1.96	0.47
1:F:360:GLU:OE1	1:F:367:ILE:HG21	2.15	0.47
1:F:556:ILE:HG12	1:F:559:LYS:HG3	1.96	0.47
1:F:609:SER:HG	1:F:723:VAL:C	2.16	0.47
1:F:649:LYS:HA	1:F:692:HIS:HA	1.95	0.47
1:F:693:PRO:HA	1:F:696:LEU:HD12	1.97	0.47
1:F:774:LYS:HG2	1:F:775:LEU:N	2.29	0.47
1:F:818:GLY:HA3	1:F:828:LEU:CD2	2.40	0.47
2:F:1001:AGS:O2A	2:F:1001:AGS:H4'	2.13	0.47
1:A:189:ARG:O	1:A:192:GLU:OE2	2.33	0.47
1:A:194:ARG:CB	1:A:198:ARG:HH12	2.26	0.47
1:A:612:PHE:CD2	1:A:771:ILE:HG13	2.50	0.47
1:A:629:GLY:HA3	1:A:635:GLU:HG2	1.97	0.47
1:A:806:LEU:O	1:A:810:ALA:HB3	2.15	0.47
1:B:300:ILE:HG23	1:C:248:LEU:HD23	1.96	0.47
1:B:331:PHE:CE2	1:B:335:PHE:HB2	2.49	0.47
1:B:573:GLU:C	1:B:575:ASP:H	2.18	0.47
1:B:611:LEU:HD21	1:B:769:ILE:HG12	1.97	0.47
1:B:649:LYS:H	1:B:692:HIS:CE1	2.32	0.47
1:B:803:LYS:HE3	1:B:854:THR:HA	1.96	0.47
1:C:165:GLU:H	1:C:165:GLU:CD	2.12	0.47
1:C:208:PRO:HD2	1:C:314:GLY:H	1.79	0.47
1:C:305:LEU:HD23	1:C:305:LEU:HA	1.51	0.47
1:C:324:ILE:O	1:C:328:ASP:N	2.32	0.47
1:C:399:SER:HB3	1:C:545:THR:HG21	1.97	0.47
1:C:511:PRO:HG3	1:D:435:GLU:HA	1.96	0.47
1:C:639:ILE:C	1:C:640:ARG:HD2	2.35	0.47
1:D:235:PRO:HD3	1:E:408:ASP:CB	2.43	0.47
1:D:349:VAL:HA	1:D:352:LEU:HB2	1.95	0.47
1:D:376:ALA:O	1:D:379:ALA:N	2.48	0.47
1:D:403:VAL:HG12	1:D:407:ARG:NE	2.30	0.47
1:D:487:GLU:HA	1:D:490:ALA:HB3	1.97	0.47
1:D:569:LEU:CD1	1:D:595:ARG:HG2	2.45	0.47
1:D:580:VAL:HA	1:D:626:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:LEU:HD21	1:E:540:VAL:CG2	2.44	0.47
1:E:397:ASP:OD2	1:E:398:ILE:HG13	2.15	0.47
1:E:514:LYS:O	1:E:517:ILE:N	2.48	0.47
1:E:603:ASN:ND2	1:F:794:ARG:CZ	2.78	0.47
1:E:610:PHE:HB2	1:E:724:ILE:HG23	1.96	0.47
1:E:617:GLY:HA2	2:E:1002:AGS:O3'	2.15	0.47
1:E:683:LEU:HB3	1:E:723:VAL:HA	1.96	0.47
1:F:166:TYR:CE2	1:F:263:GLU:OE2	2.68	0.47
1:F:167:LEU:HB2	1:F:271:GLU:OE1	2.14	0.47
1:F:210:LEU:CD1	1:F:340:VAL:H	2.28	0.47
1:F:685:PHE:CD1	1:F:725:MET:HA	2.50	0.47
1:A:227:GLN:O	1:A:230:ILE:N	2.47	0.47
1:A:355:LEU:HG	1:A:393:LEU:CD2	2.44	0.47
1:A:595:ARG:NH1	1:B:842:LEU:N	2.63	0.47
1:A:700:LEU:HA	1:A:703:LEU:HB3	1.96	0.47
1:A:801:HIS:CE1	1:A:851:ASP:OD2	2.68	0.47
1:B:203:ARG:HA	1:C:362:HIS:CE1	2.49	0.47
1:B:301:LEU:HD12	1:B:305:LEU:HD11	1.96	0.47
1:B:540:VAL:HG12	1:B:542:ASP:N	2.23	0.47
1:B:652:VAL:HG23	1:B:653:SER:H	1.80	0.47
1:B:839:LYS:HD3	1:B:878:GLU:HB3	1.96	0.47
1:C:248:LEU:CG	1:C:251:LEU:HD21	2.36	0.47
1:C:530:ARG:HD2	1:C:537:ILE:HD11	1.97	0.47
1:C:547:SER:HB2	1:C:548:GLU:OE1	2.15	0.47
1:C:579:GLU:CD	1:C:579:GLU:H	2.18	0.47
1:C:669:GLY:C	1:C:672:THR:HG1	2.15	0.47
1:C:708:ILE:C	1:C:716:ILE:H	2.16	0.47
1:C:842:LEU:HD21	1:C:881:PRO:CB	2.45	0.47
1:D:173:ASP:HB2	1:D:244:PHE:HD1	1.75	0.47
1:D:198:ARG:NH1	1:E:405:VAL:H	2.11	0.47
1:D:285:GLU:CB	1:D:287:HIS:HB3	2.34	0.47
1:D:592:ASN:O	1:D:596:LEU:N	2.40	0.47
1:D:770:VAL:HG12	1:D:771:ILE:N	2.30	0.47
1:D:818:GLY:HA2	1:D:828:LEU:CD1	2.45	0.47
1:E:611:LEU:CD1	1:E:726:THR:HA	2.44	0.47
1:E:613:LEU:CB	1:E:771:ILE:HG12	2.44	0.47
1:E:836:ILE:HA	1:E:839:LYS:HE3	1.95	0.47
1:E:872:GLU:HB2	1:E:875:GLU:HB3	1.97	0.47
1:F:199:VAL:O	1:F:200:LEU:C	2.53	0.47
1:F:274:GLU:HA	1:F:309:GLN:HG2	1.97	0.47
1:F:395:LEU:CA	1:F:398:ILE:HB	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:LYS:HD2	2:F:1002:AGS:O4'	2.15	0.47
1:F:638:MET:HG2	1:F:639:ILE:N	2.30	0.47
1:F:819:TYR:CG	1:F:825:ALA:HA	2.49	0.47
1:A:195:SER:O	1:A:198:ARG:HB2	2.15	0.47
1:A:237:ILE:HA	1:A:239:GLN:NE2	2.29	0.47
1:A:266:LYS:O	1:A:270:LYS:HG3	2.14	0.47
1:A:322:ARG:HA	1:A:325:VAL:CG2	2.45	0.47
1:A:332:GLU:OE2	1:A:334:ARG:N	2.48	0.47
1:A:355:LEU:HG	1:A:393:LEU:HD22	1.97	0.47
1:A:558:VAL:HG23	1:A:559:LYS:H	1.79	0.47
1:A:609:SER:HB3	1:A:724:ILE:CG1	2.39	0.47
1:A:647:SER:HA	1:A:692:HIS:N	2.29	0.47
1:A:828:LEU:HG	1:A:832:ILE:HD11	1.97	0.47
1:A:872:GLU:CG	1:F:200:LEU:HB2	2.30	0.47
1:B:193:ILE:HA	1:B:196:THR:HB	1.97	0.47
1:B:211:ILE:CG2	1:B:318:ASN:HA	2.45	0.47
1:B:300:ILE:O	1:B:303:PRO:HD2	2.15	0.47
1:B:302:LYS:HZ1	1:B:306:SER:N	2.13	0.47
1:B:333:ARG:HH12	1:B:334:ARG:HD3	1.79	0.47
1:B:337:LYS:CG	1:B:338:ILE:N	2.77	0.47
1:B:707:ARG:HA	1:B:708:ILE:HD12	1.96	0.47
1:C:542:ASP:O	1:C:543:SER:C	2.54	0.47
1:C:576:LEU:O	1:C:579:GLU:HG2	2.15	0.47
1:C:785:ASP:C	1:C:789:LYS:HZ2	2.18	0.47
1:C:786:ILE:HG13	1:C:789:LYS:NZ	2.28	0.47
1:C:803:LYS:HD2	1:C:853:GLU:C	2.36	0.47
1:C:812:ASP:O	1:C:813:PHE:C	2.53	0.47
1:D:190:GLU:O	1:D:193:ILE:HB	2.15	0.47
1:D:242:LYS:N	1:D:278:LEU:HA	2.30	0.47
1:D:385:TYR:CD1	1:D:386:ARG:N	2.83	0.47
1:D:421:LEU:O	1:D:425:GLN:N	2.45	0.47
1:D:515:LYS:HG3	1:D:519:LYS:HE3	1.96	0.47
1:D:567:GLU:HA	1:D:570:ILE:HB	1.96	0.47
1:D:735:ASN:O	1:D:737:GLN:HG3	2.15	0.47
1:D:763:LEU:HA	1:D:766:ILE:CG1	2.44	0.47
1:D:819:TYR:CD1	1:D:823:MET:O	2.67	0.47
1:E:175:THR:CA	1:E:178:ALA:HB3	2.40	0.47
1:E:179:ARG:HH12	1:E:495:ARG:HB3	1.80	0.47
1:E:242:LYS:N	1:E:279:ILE:HA	2.26	0.47
1:E:246:LEU:HG	1:E:247:ASP:C	2.35	0.47
1:E:460:GLU:HB3	1:E:461:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:552:ARG:NH1	1:E:552:ARG:HG3	2.30	0.47
1:E:597:SER:C	1:E:599:SER:H	2.16	0.47
1:F:176:GLU:CG	1:F:177:GLN:N	2.78	0.47
1:F:192:GLU:OE2	1:F:339:GLU:C	2.53	0.47
1:F:375:ALA:O	1:F:378:LEU:N	2.47	0.47
1:F:623:LEU:O	1:F:627:VAL:HG22	2.15	0.47
1:F:654:LYS:HB2	1:F:657:GLY:N	2.28	0.47
1:F:682:VAL:HG13	1:F:683:LEU:N	2.30	0.47
1:F:808:GLN:HA	1:F:811:LYS:CE	2.45	0.47
1:A:234:VAL:HB	1:A:235:PRO:O	2.15	0.46
1:A:268:VAL:O	1:A:271:GLU:HB3	2.16	0.46
1:A:290:MET:CB	1:A:293:GLY:H	2.28	0.46
1:A:879:VAL:HG12	1:A:880:LEU:N	2.30	0.46
1:B:199:VAL:O	1:B:202:ARG:HG2	2.15	0.46
1:B:323:SER:O	1:B:327:LYS:N	2.27	0.46
1:B:343:PRO:HG2	1:B:388:LEU:CD2	2.45	0.46
1:B:360:GLU:CG	1:B:367:ILE:HD12	2.45	0.46
1:B:393:LEU:O	1:B:396:VAL:N	2.48	0.46
1:B:393:LEU:HG	1:B:397:ASP:H	1.80	0.46
1:B:646:LEU:HD13	1:B:687:GLU:O	2.15	0.46
1:B:656:LEU:HA	1:B:669:GLY:N	2.30	0.46
1:C:168:SER:O	1:C:169:LYS:C	2.53	0.46
1:C:173:ASP:HB3	1:C:177:GLN:OE1	2.15	0.46
1:C:174:MET:O	1:C:177:GLN:HB3	2.15	0.46
1:C:395:LEU:HD12	1:C:396:VAL:N	2.30	0.46
1:C:478:GLN:O	1:C:481:LYS:HG2	2.15	0.46
1:C:776:SER:C	1:C:780:ILE:HG12	2.36	0.46
1:D:175:THR:HG21	1:D:230:ILE:HG13	1.96	0.46
1:D:214:PRO:HD2	1:D:387:ARG:CZ	2.44	0.46
1:D:263:GLU:O	1:D:267:GLY:N	2.42	0.46
1:D:650:TYR:HD2	1:D:654:LYS:HD2	1.80	0.46
1:D:753:ALA:O	1:D:757:HIS:N	2.19	0.46
1:D:782:LYS:C	1:D:784:VAL:N	2.67	0.46
1:D:788:LEU:HA	1:D:791:ILE:CG1	2.38	0.46
1:D:792:GLU:OE2	1:D:800:LYS:HE2	2.15	0.46
1:D:817:TYR:OH	1:D:874:GLU:OE2	2.14	0.46
1:D:857:VAL:HG22	1:D:880:LEU:HG	1.97	0.46
1:E:196:THR:O	1:E:199:VAL:HB	2.15	0.46
1:E:202:ARG:CZ	1:E:204:ILE:HB	2.44	0.46
1:E:398:ILE:O	1:E:401:ALA:HB3	2.15	0.46
1:E:701:GLN:O	1:E:707:ARG:NE	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:701:GLN:HB3	1:E:702:MET:CE	2.45	0.46
1:E:744:GLU:C	1:E:746:THR:H	2.18	0.46
1:E:745:SER:HA	1:E:748:ASN:CG	2.35	0.46
1:E:802:TYR:CB	1:E:804:LEU:HG	2.45	0.46
1:F:193:ILE:C	1:F:228:ARG:HH12	2.16	0.46
1:F:639:ILE:HG22	1:F:640:ARG:N	2.26	0.46
1:F:674:GLN:HA	1:F:677:TYR:CD2	2.49	0.46
1:A:317:THR:HG1	1:A:322:ARG:H	1.54	0.46
1:A:403:VAL:CG1	1:A:407:ARG:NH1	2.77	0.46
1:A:637:MET:HG3	1:A:681:SER:HB3	1.95	0.46
1:A:685:PHE:CD2	1:A:723:VAL:HG21	2.49	0.46
1:A:688:VAL:O	1:A:691:ALA:HB3	2.15	0.46
1:B:234:VAL:HG11	1:B:239:GLN:H	1.81	0.46
1:B:367:ILE:HA	1:B:540:VAL:HG23	1.97	0.46
1:B:378:LEU:CA	1:B:381:ARG:HG2	2.45	0.46
1:B:550:ALA:N	1:B:552:ARG:HH12	2.12	0.46
1:B:571:HIS:ND1	1:B:574:ARG:HG3	2.30	0.46
1:B:579:GLU:CD	1:B:626:LYS:HE2	2.34	0.46
1:B:759:ARG:HG3	1:B:761:GLU:CD	2.36	0.46
1:C:180:GLN:CG	1:C:182:LYS:HE3	2.45	0.46
1:C:211:ILE:CG2	1:C:316:THR:N	2.78	0.46
1:C:366:ARG:CZ	1:C:537:ILE:O	2.60	0.46
1:C:370:SER:C	1:C:372:LEU:N	2.67	0.46
1:C:609:SER:HB2	1:C:766:ILE:HA	1.97	0.46
1:C:782:LYS:HG3	1:C:783:ILE:HG13	1.96	0.46
1:D:321:TYR:HA	1:D:324:ILE:HD13	1.97	0.46
1:D:399:SER:O	1:D:403:VAL:N	2.45	0.46
1:D:475:GLU:HA	1:D:478:GLN:OE1	2.15	0.46
1:D:611:LEU:O	1:D:612:PHE:C	2.54	0.46
1:E:170:TYR:HB2	1:E:246:LEU:CD1	2.44	0.46
1:E:256:LYS:HE3	1:E:263:GLU:HG2	1.96	0.46
1:E:343:PRO:HG2	1:E:388:LEU:CD2	2.40	0.46
1:E:389:PRO:C	1:E:393:LEU:HG	2.35	0.46
1:E:552:ARG:HG3	1:E:552:ARG:HH11	1.80	0.46
1:E:654:LYS:NZ	1:E:694:ASP:CG	2.61	0.46
1:F:187:ILE:O	1:F:187:ILE:HG13	2.15	0.46
1:F:250:ALA:HB1	1:F:264:ARG:CG	2.45	0.46
1:F:331:PHE:N	1:F:334:ARG:HD2	2.17	0.46
1:F:786:ILE:O	1:F:789:LYS:N	2.48	0.46
1:F:787:ARG:HD3	1:F:790:GLU:CD	2.36	0.46
1:A:274:GLU:HG3	1:A:275:SER:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:ASP:C	1:A:546:ILE:HB	2.36	0.46
1:A:580:VAL:HG12	1:A:581:VAL:N	2.31	0.46
1:A:813:PHE:HB2	1:A:817:TYR:CE2	2.48	0.46
1:B:189:ARG:HH22	1:B:342:GLU:C	2.19	0.46
1:B:382:TYR:CE2	1:B:384:PRO:HD3	2.50	0.46
1:B:573:GLU:O	1:B:577:SER:HB3	2.14	0.46
1:B:621:THR:HA	1:B:624:ALA:CB	2.43	0.46
1:B:708:ILE:HB	1:B:715:THR:CA	2.45	0.46
1:B:745:SER:O	1:B:749:LEU:HG	2.14	0.46
1:B:803:LYS:HZ1	1:B:854:THR:HA	1.80	0.46
1:B:843:ARG:NH1	1:B:848:GLU:CG	2.78	0.46
1:C:178:ALA:HA	1:C:182:LYS:N	2.30	0.46
1:C:349:VAL:HG13	1:C:373:VAL:HG21	1.96	0.46
1:C:594:VAL:HA	1:C:597:SER:HB2	1.96	0.46
1:C:740:SER:OG	1:C:741:LYS:N	2.47	0.46
1:C:770:VAL:HA	1:C:771:ILE:HD12	1.97	0.46
1:C:839:LYS:NZ	1:C:881:PRO:HD3	2.31	0.46
1:D:241:ALA:CA	1:D:278:LEU:HA	2.46	0.46
1:D:360:GLU:HA	1:D:364:GLY:H	1.80	0.46
1:D:366:ARG:N	1:D:536:MET:HE3	2.30	0.46
1:D:381:ARG:HG3	1:D:382:TYR:CE1	2.51	0.46
1:D:545:THR:HA	1:D:548:GLU:HB2	1.98	0.46
1:D:560:LYS:CA	1:D:563:GLU:OE2	2.61	0.46
1:D:573:GLU:CD	1:D:595:ARG:NH2	2.69	0.46
1:D:614:GLY:HA2	1:D:772:PHE:CD2	2.51	0.46
1:E:296:ASP:HA	1:E:299:ASN:CB	2.37	0.46
1:E:303:PRO:HB2	1:E:307:ARG:HH12	1.75	0.46
1:E:332:GLU:HA	1:E:335:PHE:CB	2.28	0.46
1:E:392:ALA:O	1:E:393:LEU:C	2.52	0.46
1:E:431:LEU:HB3	1:E:441:THR:HG22	1.97	0.46
1:E:445:LEU:HD23	1:E:449:ARG:NH2	2.31	0.46
1:E:510:ILE:HG21	1:E:514:LYS:NZ	2.30	0.46
1:E:668:GLY:C	1:E:671:LEU:H	2.19	0.46
1:E:688:VAL:HG22	1:E:689:GLU:H	1.81	0.46
1:E:802:TYR:HA	1:E:852:LYS:CG	2.39	0.46
1:F:556:ILE:O	1:F:559:LYS:HB2	2.16	0.46
1:F:827:PRO:O	1:F:828:LEU:C	2.52	0.46
1:F:829:ASN:CG	1:F:830:ARG:N	2.68	0.46
1:F:841:ALA:O	1:F:845:LEU:N	2.48	0.46
1:A:657:GLY:HA3	1:A:668:GLY:HA2	1.97	0.46
1:B:227:GLN:O	1:B:230:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:611:LEU:CD2	1:B:769:ILE:HA	2.46	0.46
1:B:693:PRO:CD	1:B:694:ASP:H	2.21	0.46
1:B:764:ASN:CB	1:B:765:ARG:NH1	2.76	0.46
1:C:265:PHE:O	1:C:268:VAL:HB	2.16	0.46
1:C:395:LEU:HA	1:C:398:ILE:HB	1.96	0.46
1:C:417:LYS:HA	1:C:456:GLN:HE22	1.80	0.46
1:C:609:SER:CB	1:C:766:ILE:HA	2.45	0.46
1:C:699:MET:HG3	1:C:700:LEU:N	2.30	0.46
1:C:732:GLU:O	1:C:735:ASN:HB2	2.15	0.46
1:C:842:LEU:HA	1:C:845:LEU:HD12	1.98	0.46
1:D:172:ILE:HB	1:D:245:SER:HB3	1.97	0.46
1:D:281:LEU:HB2	1:D:312:VAL:HA	1.98	0.46
1:D:367:ILE:HG12	1:D:537:ILE:HD12	1.98	0.46
1:D:369:ASP:O	1:D:373:VAL:HG23	2.15	0.46
1:D:707:ARG:HA	1:D:716:ILE:CG2	2.45	0.46
1:D:742:ILE:HG22	1:D:743:GLN:O	2.15	0.46
1:D:794:ARG:HG2	1:D:795:PHE:CD1	2.50	0.46
1:E:294:LYS:HE2	1:E:327:LYS:HB3	1.98	0.46
1:E:304:ALA:HA	1:E:307:ARG:CG	2.45	0.46
1:E:322:ARG:HG3	1:E:323:SER:N	2.30	0.46
1:E:383:LEU:HD21	1:E:385:TYR:CZ	2.50	0.46
1:E:434:ASP:HB3	1:E:441:THR:HG21	1.97	0.46
1:E:537:ILE:HG22	1:E:537:ILE:O	2.15	0.46
1:E:704:ASP:O	1:E:707:ARG:CZ	2.64	0.46
1:E:858:VAL:HB	1:E:877:LEU:CB	2.44	0.46
1:F:316:THR:HG23	1:F:317:THR:O	2.15	0.46
1:A:322:ARG:NH2	1:A:337:LYS:HD3	2.25	0.46
1:A:325:VAL:O	1:A:328:ASP:HB2	2.15	0.46
1:A:329:GLY:HA2	1:A:331:PHE:CE1	2.50	0.46
1:A:828:LEU:HG	1:A:832:ILE:CG1	2.45	0.46
1:B:302:LYS:CE	1:B:305:LEU:HB2	2.45	0.46
1:B:632:PHE:CG	1:B:680:TYR:HB3	2.50	0.46
1:B:647:SER:HA	1:B:693:PRO:N	2.30	0.46
1:B:684:LEU:HD23	1:B:685:PHE:N	2.30	0.46
1:C:167:LEU:O	1:C:167:LEU:HD12	2.15	0.46
1:C:211:ILE:HB	1:C:338:ILE:HD11	1.98	0.46
1:C:640:ARG:NH2	1:C:684:LEU:HD13	2.31	0.46
1:C:753:ALA:HA	1:C:756:GLN:OE1	2.15	0.46
1:C:757:HIS:O	1:C:758:PHE:CD1	2.68	0.46
1:C:790:GLU:O	1:C:793:GLU:N	2.48	0.46
1:D:357:PRO:O	1:D:361:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:377:GLN:O	1:D:380:LYS:HE3	2.16	0.46
1:D:462:LEU:CD2	1:D:465:ARG:NH1	2.78	0.46
1:D:556:ILE:HB	1:D:560:LYS:HZ1	1.80	0.46
1:D:571:HIS:HB2	1:D:575:ASP:OD2	2.15	0.46
1:D:603:ASN:HD21	1:D:605:ARG:HB3	1.81	0.46
1:D:702:MET:HA	1:D:706:GLY:CA	2.44	0.46
1:E:260:ASP:CA	1:E:263:GLU:HB2	2.46	0.46
1:E:277:THR:HG1	1:E:278:LEU:H	1.63	0.46
1:E:296:ASP:O	1:E:300:ILE:HG12	2.14	0.46
1:E:350:ALA:O	1:E:353:ARG:HB2	2.16	0.46
1:E:394:ASP:O	1:E:398:ILE:HG13	2.16	0.46
1:E:410:LYS:O	1:E:413:GLU:N	2.48	0.46
1:E:597:SER:HG	1:E:598:ARG:H	1.64	0.46
1:E:807:THR:CA	1:E:811:LYS:HZ2	2.27	0.46
1:E:812:ASP:CG	1:E:816:LYS:HE3	2.36	0.46
1:F:166:TYR:CD1	1:F:264:ARG:NH1	2.83	0.46
1:F:194:ARG:HG2	1:F:228:ARG:NH2	2.31	0.46
1:F:299:ASN:CB	1:F:302:LYS:HE3	2.34	0.46
1:F:649:LYS:HE2	1:F:649:LYS:HB3	1.78	0.46
1:F:781:HIS:CD2	1:F:782:LYS:NZ	2.84	0.46
1:A:319:ASN:HD21	1:A:712:GLN:CB	2.29	0.46
1:A:395:LEU:HG	1:A:399:SER:HG	1.80	0.46
1:A:403:VAL:HG11	1:A:407:ARG:NH1	2.30	0.46
1:A:611:LEU:C	1:A:770:VAL:H	2.19	0.46
1:A:628:ALA:O	1:A:630:PHE:N	2.48	0.46
1:A:654:LYS:CD	1:A:656:LEU:HB3	2.46	0.46
1:A:786:ILE:CA	1:A:789:LYS:NZ	2.74	0.46
1:A:823:MET:HE2	1:F:307:ARG:HB2	1.98	0.46
1:B:166:TYR:O	1:B:169:LYS:N	2.49	0.46
1:B:169:LYS:CG	1:B:170:TYR:H	2.29	0.46
1:B:189:ARG:HG2	1:B:192:GLU:OE2	2.14	0.46
1:B:261:PHE:O	1:B:265:PHE:N	2.48	0.46
1:B:365:VAL:HG13	1:B:407:ARG:NH1	2.30	0.46
1:B:379:ALA:O	1:B:382:TYR:N	2.48	0.46
1:B:764:ASN:CG	1:B:765:ARG:HH12	2.19	0.46
1:C:219:THR:HA	1:C:222:ILE:HD12	1.98	0.46
1:C:282:PHE:HB2	1:C:313:ILE:N	2.25	0.46
1:C:286:ILE:O	1:C:289:LEU:N	2.47	0.46
1:C:391:SER:O	1:C:395:LEU:N	2.42	0.46
1:C:770:VAL:CG2	1:C:771:ILE:H	2.25	0.46
1:D:203:ARG:NH1	1:E:363:HIS:N	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:398:ILE:O	1:D:401:ALA:HB3	2.16	0.46
1:D:503:ALA:HB2	1:E:425:GLN:HE21	1.80	0.46
1:D:686:ASP:CG	1:D:687:GLU:H	2.18	0.46
1:E:243:LEU:N	1:E:279:ILE:HG23	2.30	0.46
1:E:341:ALA:O	1:E:342:GLU:HB3	2.16	0.46
1:E:351:ILE:HG22	1:E:352:LEU:HD23	1.97	0.46
1:E:378:LEU:HD23	1:E:382:TYR:CE2	2.50	0.46
1:E:603:ASN:OD1	1:E:605:ARG:HB2	2.15	0.46
1:E:701:GLN:O	1:E:707:ARG:HB3	2.16	0.46
1:E:745:SER:O	1:E:749:LEU:N	2.37	0.46
1:F:612:PHE:HB2	1:F:724:ILE:CG1	2.43	0.46
1:F:640:ARG:HA	1:F:684:LEU:HB2	1.94	0.46
1:F:649:LYS:HE2	1:F:693:PRO:HG2	1.96	0.46
1:F:743:GLN:C	1:F:747:LYS:HZ3	2.18	0.46
1:F:836:ILE:HD13	1:F:839:LYS:NZ	2.31	0.46
1:A:374:THR:HA	1:A:377:GLN:OE1	2.15	0.46
1:A:758:PHE:CZ	1:A:760:PRO:HA	2.51	0.46
1:B:329:GLY:CA	1:B:332:GLU:HB2	2.45	0.46
1:B:587:ILE:O	1:B:591:SER:OG	2.31	0.46
1:B:617:GLY:N	1:B:620:LYS:NZ	2.64	0.46
1:B:638:MET:HA	1:B:682:VAL:HG12	1.97	0.46
1:B:704:ASP:OD2	1:B:707:ARG:HD2	2.16	0.46
1:C:187:ILE:HD12	1:C:351:ILE:HG12	1.98	0.46
1:C:208:PRO:CG	1:C:313:ILE:HG23	2.45	0.46
1:C:350:ALA:O	1:C:354:GLY:N	2.40	0.46
1:C:513:ILE:CD1	1:C:514:LYS:HG3	2.44	0.46
1:D:173:ASP:OD2	1:D:176:GLU:HG2	2.16	0.46
1:D:203:ARG:HH12	1:E:363:HIS:N	2.14	0.46
1:D:301:LEU:O	1:D:304:ALA:HB3	2.16	0.46
1:D:394:ASP:O	1:D:398:ILE:HG13	2.15	0.46
1:D:459:LEU:CB	1:D:463:ARG:HH12	2.28	0.46
1:D:549:THR:O	1:D:552:ARG:N	2.49	0.46
1:D:693:PRO:O	1:D:696:LEU:HB2	2.15	0.46
1:D:714:LYS:CD	1:D:715:THR:H	2.26	0.46
1:D:788:LEU:CA	1:D:791:ILE:HG12	2.37	0.46
1:E:223:GLU:HA	1:E:226:ALA:HB3	1.97	0.46
1:E:383:LEU:HD23	1:E:383:LEU:C	2.36	0.46
1:E:643:CYS:C	1:E:649:LYS:HZ2	2.19	0.46
1:E:794:ARG:NH2	1:E:797:GLN:OE1	2.49	0.46
1:F:205:LYS:HZ2	1:F:334:ARG:C	2.11	0.46
1:F:356:GLN:NE2	1:F:367:ILE:CG2	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:576:LEU:HD23	1:F:576:LEU:HA	1.59	0.46
1:F:686:ASP:O	1:F:727:SER:HB2	2.16	0.46
1:F:742:ILE:HG22	1:F:743:GLN:O	2.16	0.46
1:F:803:LYS:NZ	1:F:852:LYS:O	2.48	0.46
1:A:320:GLU:HA	1:A:323:SER:CB	2.46	0.46
1:A:567:GLU:OE1	1:A:567:GLU:N	2.42	0.46
1:A:682:VAL:HG12	1:A:683:LEU:O	2.15	0.46
1:A:791:ILE:HG23	1:A:794:ARG:HG3	1.98	0.46
1:B:234:VAL:HG22	1:B:236:THR:N	2.24	0.46
1:B:580:VAL:CG2	1:B:622:GLU:HG2	2.46	0.46
1:B:662:TYR:HB3	1:B:663:VAL:HG23	1.97	0.46
1:B:728:ALA:HB1	1:B:732:GLU:OE2	2.16	0.46
1:B:753:ALA:HA	1:B:756:GLN:NE2	2.31	0.46
1:B:849:ILE:CG1	1:B:882:ASN:HA	2.46	0.46
1:C:178:ALA:HA	1:C:182:LYS:H	1.81	0.46
1:C:375:ALA:HB1	1:C:546:ILE:HD12	1.98	0.46
1:C:417:LYS:HG2	1:C:459:LEU:HD13	1.98	0.46
1:C:417:LYS:CG	1:C:459:LEU:HD13	2.45	0.46
1:C:655:LEU:HD13	1:C:671:LEU:HD11	1.96	0.46
1:C:842:LEU:HD21	1:C:881:PRO:HB3	1.98	0.46
1:D:199:VAL:CG1	1:D:336:GLN:HG2	2.46	0.46
1:D:243:LEU:C	1:D:244:PHE:CG	2.89	0.46
1:D:459:LEU:HA	1:D:462:LEU:HB2	1.98	0.46
1:D:530:ARG:HH12	1:D:538:GLN:N	2.10	0.46
1:D:537:ILE:HG12	1:D:540:VAL:H	1.81	0.46
1:D:566:ASN:O	1:D:567:GLU:C	2.53	0.46
1:D:568:LYS:O	1:D:572:MET:HB2	2.15	0.46
1:D:845:LEU:HG	1:D:846:LYS:N	2.30	0.46
1:E:276:LYS:CE	1:E:279:ILE:HB	2.45	0.46
1:E:303:PRO:HA	1:E:334:ARG:NH2	2.28	0.46
1:E:352:LEU:HG	1:E:352:LEU:H	1.47	0.46
1:E:416:SER:HA	1:E:419:ARG:HE	1.80	0.46
1:E:880:LEU:HD23	1:E:880:LEU:HA	1.65	0.46
1:F:185:PRO:HB3	1:F:227:GLN:OE1	2.16	0.46
1:F:212:GLY:HA3	1:F:216:ILE:HD13	1.98	0.46
1:F:238:LEU:HB3	1:F:279:ILE:HD13	1.98	0.46
1:F:701:GLN:CB	1:F:709:THR:OG1	2.64	0.46
1:F:755:ARG:CZ	1:F:763:LEU:HB3	2.46	0.46
1:F:788:LEU:HG	1:F:789:LYS:N	2.29	0.46
1:F:802:TYR:CE2	1:F:851:ASP:N	2.80	0.46
1:A:302:LYS:HE2	1:A:306:SER:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:LEU:O	1:A:360:GLU:OE2	2.34	0.46
1:A:654:LYS:CG	1:A:656:LEU:HB3	2.46	0.46
1:B:171:ALA:N	1:B:250:ALA:HA	2.31	0.46
1:B:196:THR:O	1:B:200:LEU:HG	2.16	0.46
1:B:366:ARG:HG2	1:B:407:ARG:HH22	1.81	0.46
1:B:583:GLN:HG3	1:B:771:ILE:O	2.16	0.46
1:B:652:VAL:HG23	1:B:653:SER:N	2.31	0.46
1:B:698:VAL:HG22	1:B:701:GLN:OE1	2.16	0.46
1:B:744:GLU:HG3	1:B:748:ASN:ND2	2.31	0.46
1:B:757:HIS:ND1	1:B:758:PHE:HD1	2.14	0.46
1:B:806:LEU:HD23	1:B:810:ALA:HB3	1.98	0.46
1:B:814:LEU:HD13	1:B:832:ILE:HG23	1.98	0.46
1:C:392:ALA:O	1:C:395:LEU:N	2.49	0.46
1:C:474:GLU:O	1:C:478:GLN:N	2.46	0.46
1:C:808:GLN:O	1:C:811:LYS:N	2.48	0.46
1:D:242:LYS:HE2	1:D:278:LEU:HB3	1.97	0.46
1:D:258:LYS:NZ	1:D:262:GLU:H	2.12	0.46
1:D:265:PHE:CE2	1:D:269:LEU:HD11	2.50	0.46
1:D:272:ILE:HB	1:D:279:ILE:HD13	1.98	0.46
1:D:380:LYS:HZ1	1:D:381:ARG:CB	2.28	0.46
1:D:542:ASP:O	1:D:543:SER:C	2.55	0.46
1:D:740:SER:N	1:D:743:GLN:OE1	2.48	0.46
1:D:742:ILE:C	1:D:747:LYS:HZ2	2.15	0.46
1:E:231:ASP:HA	1:E:495:ARG:HH22	1.81	0.46
1:E:549:THR:HG22	1:E:553:LEU:HD11	1.98	0.46
1:E:565:GLU:HB2	1:E:566:ASN:CB	2.46	0.46
1:E:607:PRO:CG	1:E:707:ARG:NH1	2.78	0.46
1:E:701:GLN:HG2	1:E:707:ARG:CB	2.40	0.46
1:E:711:GLY:C	1:E:713:GLY:H	2.18	0.46
1:E:762:PHE:HA	1:E:765:ARG:CB	2.39	0.46
1:E:794:ARG:NH2	1:E:797:GLN:CD	2.70	0.46
1:E:807:THR:O	1:E:810:ALA:N	2.49	0.46
1:F:166:TYR:CE1	1:F:264:ARG:NH1	2.84	0.46
1:F:192:GLU:HG2	1:F:338:ILE:HG22	1.98	0.46
1:F:295:ASP:O	1:F:300:ILE:HB	2.16	0.46
1:F:626:LYS:HA	1:F:626:LYS:HD2	1.74	0.46
1:F:697:THR:O	1:F:700:LEU:N	2.49	0.46
1:F:798:ASN:O	1:F:799:ASP:C	2.54	0.46
1:F:803:LYS:HZ2	1:F:853:GLU:N	2.14	0.46
1:F:810:ALA:C	1:F:814:LEU:HG	2.35	0.46
1:A:654:LYS:HG2	1:A:656:LEU:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:809:GLU:O	1:A:812:ASP:N	2.49	0.46
1:B:251:LEU:HD21	1:B:264:ARG:HA	1.98	0.46
1:B:252:THR:N	1:B:264:ARG:NH2	2.64	0.46
1:B:603:ASN:OD1	1:B:605:ARG:HG2	2.16	0.46
1:B:669:GLY:O	1:B:671:LEU:HG	2.16	0.46
1:B:737:GLN:N	1:B:774:LYS:NZ	2.63	0.46
1:C:190:GLU:N	1:C:190:GLU:CD	2.69	0.46
1:C:218:LYS:HA	1:C:221:ILE:CD1	2.39	0.46
1:C:286:ILE:HD12	1:C:297:ALA:HB3	1.98	0.46
1:C:322:ARG:HA	1:C:325:VAL:CG2	2.45	0.46
1:C:643:CYS:HB3	1:C:690:LYS:HB2	1.96	0.46
1:C:759:ARG:CG	1:C:761:GLU:HB3	2.46	0.46
1:D:166:TYR:HB2	1:D:264:ARG:NH2	2.31	0.46
1:D:248:LEU:HD12	1:D:251:LEU:CB	2.45	0.46
1:D:264:ARG:O	1:D:268:VAL:HG23	2.15	0.46
1:D:369:ASP:CA	1:D:372:LEU:HB3	2.46	0.46
1:D:372:LEU:HB2	1:D:542:ASP:CB	2.45	0.46
1:D:708:ILE:HG13	1:D:716:ILE:HB	1.98	0.46
1:D:744:GLU:C	1:D:746:THR:N	2.68	0.46
1:D:802:TYR:N	1:D:802:TYR:CD1	2.82	0.46
1:E:347:GLN:CD	1:E:347:GLN:N	2.67	0.46
1:E:385:TYR:HD1	1:E:386:ARG:CZ	2.29	0.46
1:E:610:PHE:O	1:E:724:ILE:HG22	2.16	0.46
1:F:605:ARG:HH11	1:F:706:GLY:N	2.14	0.46
1:F:853:GLU:OE2	1:F:880:LEU:HD11	2.15	0.46
1:A:213:GLU:CD	1:A:318:ASN:H	2.19	0.45
1:A:605:ARG:HG3	1:A:606:GLN:N	2.31	0.45
1:A:610:PHE:H	1:A:724:ILE:CG1	2.08	0.45
1:A:625:LYS:CE	1:A:635:GLU:HB3	2.39	0.45
1:A:729:LEU:HG	1:A:753:ALA:HB1	1.97	0.45
1:B:198:ARG:O	1:B:201:ALA:N	2.49	0.45
1:B:204:ILE:HG22	1:B:205:LYS:N	2.30	0.45
1:B:237:ILE:O	1:B:241:ALA:N	2.49	0.45
1:B:242:LYS:C	1:B:279:ILE:HA	2.36	0.45
1:B:299:ASN:O	1:B:302:LYS:N	2.45	0.45
1:B:324:ILE:HG12	1:B:327:LYS:HE2	1.98	0.45
1:B:331:PHE:HE2	1:B:335:PHE:HD1	1.63	0.45
1:B:361:ILE:C	1:B:364:GLY:H	2.20	0.45
1:B:620:LYS:CG	1:B:621:THR:H	2.18	0.45
1:B:784:VAL:HB	1:B:811:LYS:HZ3	1.81	0.45
1:B:801:HIS:CE1	1:B:851:ASP:OD2	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:829:ASN:O	1:B:832:ILE:N	2.50	0.45
1:C:17:LEU:CA	1:C:36:LEU:H	2.29	0.45
1:C:199:VAL:HA	1:C:202:ARG:CB	2.46	0.45
1:C:265:PHE:HA	1:C:268:VAL:HB	1.98	0.45
1:C:356:GLN:CG	1:C:357:PRO:HD3	2.43	0.45
1:C:564:SER:O	1:C:566:ASN:ND2	2.49	0.45
1:C:611:LEU:HD22	1:C:770:VAL:HB	1.98	0.45
1:C:639:ILE:HG22	1:C:640:ARG:N	2.27	0.45
1:D:285:GLU:CB	1:D:288:MET:HG2	2.38	0.45
1:D:302:LYS:NZ	1:D:306:SER:CA	2.66	0.45
1:D:338:ILE:CG2	1:D:339:GLU:H	2.27	0.45
1:D:380:LYS:O	1:D:382:TYR:N	2.48	0.45
1:D:460:GLU:HB2	1:D:461:PRO:HD3	1.98	0.45
1:D:537:ILE:HG13	1:D:540:VAL:HG13	1.98	0.45
1:D:595:ARG:O	1:D:599:SER:HB3	2.16	0.45
1:D:851:ASP:O	1:D:852:LYS:HB2	2.16	0.45
1:E:208:PRO:HA	1:E:336:GLN:C	2.36	0.45
1:E:265:PHE:O	1:E:268:VAL:N	2.49	0.45
1:E:266:LYS:HA	1:E:269:LEU:HG	1.98	0.45
1:E:544:ASP:O	1:E:547:SER:N	2.49	0.45
1:E:603:ASN:CG	1:F:794:ARG:NH1	2.70	0.45
1:E:666:ASP:O	1:E:667:GLU:HB3	2.16	0.45
1:F:685:PHE:CD2	1:F:725:MET:HA	2.52	0.45
1:F:743:GLN:C	1:F:747:LYS:HZ1	2.19	0.45
1:F:784:VAL:HG23	1:F:785:ASP:N	2.30	0.45
1:F:843:ARG:NH2	1:F:849:ILE:HD13	2.31	0.45
1:A:394:ASP:O	1:A:397:ASP:HB3	2.16	0.45
1:A:651:ALA:O	1:A:654:LYS:HB3	2.16	0.45
1:A:695:VAL:O	1:A:698:VAL:N	2.49	0.45
1:A:710:SER:OG	1:A:713:GLY:N	2.49	0.45
1:B:221:ILE:O	1:B:225:VAL:HG23	2.15	0.45
1:B:374:THR:O	1:B:377:GLN:N	2.50	0.45
1:B:380:LYS:HA	1:B:383:LEU:CD2	2.45	0.45
1:B:719:SER:O	1:B:722:ILE:HG13	2.16	0.45
1:B:779:ALA:O	1:B:783:ILE:N	2.40	0.45
1:C:209:CYS:CB	1:C:335:PHE:HA	2.45	0.45
1:C:383:LEU:HD11	1:C:553:LEU:HB3	1.98	0.45
1:C:576:LEU:CA	1:C:579:GLU:OE2	2.63	0.45
1:C:625:LYS:C	1:C:627:VAL:H	2.17	0.45
1:C:738:GLN:N	1:C:774:LYS:HE3	2.30	0.45
1:C:759:ARG:HG3	1:C:761:GLU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:792:GLU:O	1:C:795:PHE:N	2.37	0.45
1:D:94:LYS:O	1:D:98:ASP:N	2.49	0.45
1:D:266:LYS:O	1:D:269:LEU:HB2	2.15	0.45
1:D:631:LEU:HB3	1:D:632:PHE:CD2	2.52	0.45
1:D:685:PHE:HB3	1:D:725:MET:HE3	1.98	0.45
1:D:708:ILE:HG22	1:D:714:LYS:O	2.17	0.45
1:E:200:LEU:CD2	1:E:208:PRO:HD2	2.46	0.45
1:E:208:PRO:HA	1:E:336:GLN:O	2.16	0.45
1:E:216:ILE:HD12	1:E:387:ARG:HB2	1.97	0.45
1:E:218:LYS:O	1:E:221:ILE:N	2.48	0.45
1:E:316:THR:OG1	1:E:317:THR:N	2.50	0.45
1:E:344:SER:HG	1:E:347:GLN:HB2	1.80	0.45
1:E:392:ALA:O	1:E:396:VAL:N	2.39	0.45
1:E:608:ALA:H	1:E:721:CYS:HB2	1.81	0.45
1:F:194:ARG:HD2	1:F:228:ARG:NH1	2.31	0.45
1:F:274:GLU:HA	1:F:309:GLN:CG	2.46	0.45
1:F:607:PRO:HD3	1:F:705:ASP:O	2.16	0.45
1:F:801:HIS:N	1:F:802:TYR:HD1	2.14	0.45
1:A:213:GLU:CG	1:A:387:ARG:HH21	2.30	0.45
1:A:262:GLU:HG3	1:A:301:LEU:HD13	1.98	0.45
1:A:285:GLU:HG3	1:A:288:MET:H	1.81	0.45
1:A:407:ARG:HD3	1:A:538:GLN:HB3	1.99	0.45
1:A:617:GLY:C	1:A:620:LYS:HZ2	2.19	0.45
1:A:646:LEU:CD1	1:A:691:ALA:HB1	2.46	0.45
1:B:205:LYS:HA	1:B:207:ASN:HD21	1.82	0.45
1:B:323:SER:O	1:B:327:LYS:HG3	2.17	0.45
1:B:550:ALA:N	1:B:552:ARG:NH1	2.63	0.45
1:B:803:LYS:CE	1:B:854:THR:HA	2.47	0.45
1:C:170:TYR:HE1	1:C:249:ALA:CB	2.26	0.45
1:C:194:ARG:HA	1:C:197:ILE:HG12	1.97	0.45
1:C:225:VAL:O	1:C:226:ALA:C	2.54	0.45
1:C:349:VAL:CB	1:C:353:ARG:NH1	2.79	0.45
1:C:355:LEU:HB3	1:C:358:LYS:HB3	1.98	0.45
1:C:567:GLU:HA	1:C:570:ILE:HG12	1.98	0.45
1:D:205:LYS:HZ1	1:D:332:GLU:C	2.17	0.45
1:D:234:VAL:CG1	1:D:238:LEU:HB2	2.37	0.45
1:D:374:THR:O	1:D:377:GLN:OE1	2.33	0.45
1:D:573:GLU:OE2	1:D:595:ARG:CZ	2.64	0.45
1:D:626:LYS:HE3	1:D:626:LYS:HB3	1.63	0.45
1:E:216:ILE:HG22	1:E:387:ARG:NH1	2.31	0.45
1:E:241:ALA:CB	1:E:278:LEU:HB3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:374:THR:O	1:E:377:GLN:HB2	2.16	0.45
1:E:462:LEU:HA	1:E:465:ARG:HG2	1.96	0.45
1:E:487:GLU:O	1:E:491:LEU:HG	2.17	0.45
1:E:599:SER:C	1:E:601:LEU:HD12	2.36	0.45
1:E:639:ILE:O	1:E:640:ARG:HD3	2.16	0.45
1:E:772:PHE:CD2	1:E:773:ASN:O	2.70	0.45
1:F:170:TYR:CD2	1:F:248:LEU:HD12	2.51	0.45
1:F:261:PHE:HD2	1:F:297:ALA:HA	1.82	0.45
1:A:210:LEU:CD2	1:A:339:GLU:HG3	2.46	0.45
1:A:260:ASP:OD1	1:A:264:ARG:HD2	2.15	0.45
1:A:382:TYR:HD2	1:A:383:LEU:HD13	1.80	0.45
1:A:590:VAL:O	1:A:594:VAL:HG23	2.16	0.45
1:A:611:LEU:HG	1:A:612:PHE:O	2.15	0.45
1:A:643:CYS:SG	1:A:686:ASP:C	2.95	0.45
1:A:790:GLU:CG	1:A:791:ILE:HG13	2.47	0.45
1:A:808:GLN:CD	1:A:811:LYS:HD2	2.36	0.45
1:A:858:VAL:HG12	1:A:859:LEU:H	1.81	0.45
1:B:167:LEU:HB3	1:B:267:GLY:HA3	1.98	0.45
1:B:265:PHE:HA	1:B:268:VAL:CB	2.43	0.45
1:B:685:PHE:CZ	1:B:687:GLU:HA	2.52	0.45
1:B:813:PHE:HA	1:B:816:LYS:HG2	1.98	0.45
1:C:193:ILE:C	1:C:197:ILE:HG12	2.37	0.45
1:C:200:LEU:O	1:C:206:SER:HB3	2.16	0.45
1:C:283:ILE:HG22	1:C:284:ASP:H	1.81	0.45
1:C:298:ALA:HA	1:C:301:LEU:CG	2.45	0.45
1:C:368:LEU:HD11	1:C:539:ASN:ND2	2.31	0.45
1:C:374:THR:O	1:C:375:ALA:C	2.52	0.45
1:C:424:ILE:HG23	1:C:425:GLN:N	2.31	0.45
1:C:681:SER:HG	1:C:682:VAL:N	2.15	0.45
1:C:694:ASP:O	1:C:698:VAL:HG23	2.17	0.45
1:C:751:MET:CA	1:C:755:ARG:NH1	2.79	0.45
1:C:786:ILE:N	1:C:789:LYS:HZ2	2.13	0.45
1:D:226:ALA:HA	1:D:229:ILE:HB	1.97	0.45
1:D:266:LYS:HG2	1:D:270:LYS:HZ3	1.80	0.45
1:D:583:GLN:NE2	1:D:771:ILE:O	2.49	0.45
1:D:598:ARG:HH22	1:D:632:PHE:HZ	1.64	0.45
1:D:616:SER:O	1:D:618:SER:N	2.50	0.45
1:D:673:ASN:O	1:D:677:TYR:CG	2.69	0.45
1:D:732:GLU:HG3	1:D:733:PHE:N	2.30	0.45
1:E:246:LEU:HD12	1:E:247:ASP:H	1.81	0.45
1:E:274:GLU:C	1:E:276:LYS:N	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:346:ARG:HG2	1:E:347:GLN:N	2.32	0.45
1:E:809:GLU:HA	1:E:813:PHE:CZ	2.52	0.45
1:F:236:THR:HB	1:F:239:GLN:CD	2.37	0.45
1:F:263:GLU:O	1:F:266:LYS:N	2.49	0.45
1:F:369:ASP:OD1	1:F:370:SER:N	2.50	0.45
1:F:386:ARG:HH21	1:F:391:SER:N	2.15	0.45
1:F:836:ILE:C	1:F:840:LEU:HD13	2.37	0.45
1:A:571:HIS:CD2	1:A:574:ARG:NH1	2.85	0.45
1:A:810:ALA:HA	1:A:813:PHE:HD1	1.73	0.45
1:A:814:LEU:CD2	1:A:828:LEU:HD11	2.47	0.45
1:B:202:ARG:NH1	1:B:205:LYS:CB	2.69	0.45
1:B:298:ALA:H	1:B:301:LEU:HD21	1.82	0.45
1:B:672:THR:O	1:B:676:GLN:N	2.33	0.45
1:C:228:ARG:HA	1:C:231:ASP:CB	2.46	0.45
1:C:235:PRO:HG2	1:C:238:LEU:HD12	1.98	0.45
1:C:390:ASP:O	1:C:391:SER:C	2.53	0.45
1:C:590:VAL:O	1:C:593:ALA:HB3	2.16	0.45
1:D:170:TYR:O	1:D:246:LEU:HD13	2.16	0.45
1:D:197:ILE:O	1:D:200:LEU:HB2	2.16	0.45
1:D:283:ILE:HB	1:D:313:ILE:O	2.16	0.45
1:D:291:GLY:N	1:D:294:LYS:HG2	2.31	0.45
1:D:369:ASP:HA	1:D:372:LEU:CB	2.45	0.45
1:D:377:GLN:HA	1:D:380:LYS:HB3	1.98	0.45
1:D:549:THR:HG22	1:D:553:LEU:HD12	1.98	0.45
1:D:585:ASP:HA	1:D:588:LYS:HG3	1.98	0.45
1:D:611:LEU:O	1:D:726:THR:HB	2.16	0.45
1:D:643:CYS:C	1:D:645:GLU:N	2.67	0.45
1:D:684:LEU:HD12	1:D:724:ILE:O	2.17	0.45
1:E:469:GLU:O	1:E:473:HIS:N	2.38	0.45
1:E:535:SER:C	1:E:537:ILE:HG12	2.36	0.45
1:F:244:PHE:O	1:F:281:LEU:HD13	2.16	0.45
1:F:805:ASN:CG	1:F:856:ASN:HB2	2.37	0.45
1:A:228:ARG:HA	1:A:231:ASP:OD2	2.17	0.45
1:A:283:ILE:HD12	1:A:288:MET:CB	2.47	0.45
1:A:331:PHE:HZ	1:A:335:PHE:CE2	2.34	0.45
1:A:549:THR:CA	1:A:552:ARG:HH12	2.29	0.45
1:A:560:LYS:N	1:A:562:SER:OG	2.49	0.45
1:A:606:GLN:HE21	1:A:608:ALA:HA	1.82	0.45
1:A:658:THR:H	1:A:667:GLU:C	2.18	0.45
1:A:733:PHE:HE2	1:A:750:VAL:HA	1.82	0.45
1:B:228:ARG:HH22	1:B:233:ASP:CB	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:LEU:HG	1:B:690:LYS:HB2	1.99	0.45
1:B:673:ASN:HA	1:B:676:GLN:OE1	2.17	0.45
1:B:704:ASP:CB	1:B:707:ARG:NH1	2.78	0.45
1:C:352:LEU:HG	1:C:352:LEU:H	1.52	0.45
1:C:375:ALA:HA	1:C:378:LEU:HB2	1.98	0.45
1:C:659:THR:HG23	1:C:712:GLN:HA	1.99	0.45
1:C:752:GLY:O	1:C:755:ARG:N	2.49	0.45
1:C:784:VAL:O	1:C:787:ARG:HB2	2.16	0.45
1:C:803:LYS:HZ2	1:C:853:GLU:HB2	1.82	0.45
1:D:409:SER:O	1:D:410:LYS:HB2	2.16	0.45
1:D:462:LEU:CD2	1:D:465:ARG:HH11	2.30	0.45
1:D:825:ALA:C	1:D:827:PRO:HD2	2.37	0.45
1:E:198:ARG:HD3	1:F:401:ALA:CB	2.39	0.45
1:E:214:PRO:O	1:E:218:LYS:NZ	2.43	0.45
1:E:248:LEU:O	1:E:251:LEU:N	2.50	0.45
1:E:284:ASP:HA	1:E:314:GLY:HA2	1.99	0.45
1:E:319:ASN:C	1:E:322:ARG:NH1	2.69	0.45
1:E:330:ALA:O	1:E:334:ARG:HG3	2.16	0.45
1:E:761:GLU:HG2	1:E:762:PHE:N	2.31	0.45
1:F:166:TYR:HD2	1:F:264:ARG:O	2.00	0.45
1:F:199:VAL:HA	1:F:202:ARG:CB	2.47	0.45
1:F:285:GLU:HB2	1:F:288:MET:HG2	1.99	0.45
1:F:609:SER:O	1:F:724:ILE:HG22	2.16	0.45
1:F:789:LYS:O	1:F:792:GLU:OE2	2.34	0.45
1:A:262:GLU:HB3	1:A:266:LYS:HB2	1.99	0.45
1:A:306:SER:HA	1:A:310:LEU:HB3	1.98	0.45
1:A:767:SER:OG	1:A:768:SER:N	2.50	0.45
1:A:830:ARG:O	1:A:833:GLN:HB3	2.16	0.45
1:B:225:VAL:HG12	1:B:229:ILE:HD11	1.99	0.45
1:B:349:VAL:HG12	1:B:353:ARG:HG2	1.99	0.45
1:C:201:ALA:HB2	1:C:238:LEU:HD21	1.99	0.45
1:C:218:LYS:HE2	1:C:218:LYS:HB2	1.70	0.45
1:C:567:GLU:CD	1:C:567:GLU:N	2.67	0.45
1:C:568:LYS:HZ1	1:C:630:PHE:CA	2.28	0.45
1:C:573:GLU:HA	1:C:576:LEU:HG	1.99	0.45
1:C:671:LEU:HB2	1:C:675:LEU:HD11	1.98	0.45
1:C:786:ILE:HD12	1:C:789:LYS:HZ1	1.82	0.45
1:C:810:ALA:O	1:C:811:LYS:C	2.54	0.45
1:C:841:ALA:O	1:C:844:ILE:N	2.50	0.45
1:D:167:LEU:HG	1:D:170:TYR:CD2	2.52	0.45
1:D:301:LEU:HD12	1:D:302:LYS:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:330:ALA:O	1:D:333:ARG:HB2	2.17	0.45
1:D:355:LEU:O	1:D:356:GLN:C	2.53	0.45
1:D:469:GLU:OE2	1:D:536:MET:HB2	2.17	0.45
1:D:572:MET:HE2	1:D:576:LEU:HD11	1.98	0.45
1:D:586:ALA:O	1:D:587:ILE:C	2.54	0.45
1:D:654:LYS:CE	1:D:656:LEU:HB2	2.45	0.45
1:D:694:ASP:O	1:D:698:VAL:HG23	2.17	0.45
1:D:787:ARG:O	1:D:791:ILE:HG12	2.16	0.45
1:D:840:LEU:CD1	1:D:844:ILE:HD12	2.47	0.45
1:E:243:LEU:HA	1:E:280:VAL:N	2.32	0.45
1:E:248:LEU:O	1:E:252:THR:HG23	2.16	0.45
1:E:572:MET:H	1:E:595:ARG:NH2	2.15	0.45
1:E:611:LEU:HD13	1:E:726:THR:HA	1.98	0.45
1:E:790:GLU:HA	1:E:793:GLU:OE1	2.17	0.45
1:F:683:LEU:HD13	1:F:685:PHE:HZ	1.82	0.45
1:F:744:GLU:HB2	1:F:747:LYS:HE2	1.98	0.45
1:F:748:ASN:O	1:F:751:MET:HB3	2.17	0.45
1:F:848:GLU:O	1:F:849:ILE:HB	2.16	0.45
1:A:192:GLU:HA	1:A:195:SER:HB2	1.97	0.45
1:A:262:GLU:OE2	1:A:296:ASP:OD2	2.35	0.45
1:A:286:ILE:HG22	1:A:314:GLY:HA3	1.99	0.45
1:A:586:ALA:O	1:A:590:VAL:N	2.37	0.45
1:A:590:VAL:O	1:A:593:ALA:HB3	2.16	0.45
1:A:809:GLU:OE1	1:A:810:ALA:N	2.50	0.45
1:A:809:GLU:OE2	1:A:857:VAL:HG12	2.16	0.45
1:A:816:LYS:HA	1:A:819:TYR:HE2	1.81	0.45
1:B:207:ASN:ND2	1:B:335:PHE:HA	2.32	0.45
1:B:337:LYS:HA	1:B:337:LYS:HD2	1.75	0.45
1:B:393:LEU:O	1:B:397:ASP:N	2.48	0.45
1:B:541:VAL:O	1:B:542:ASP:OD1	2.34	0.45
1:B:547:SER:HA	1:B:550:ALA:HB3	1.99	0.45
1:B:666:ASP:OD2	1:B:669:GLY:O	2.34	0.45
1:C:378:LEU:O	1:C:382:TYR:CD2	2.69	0.45
1:C:698:VAL:HA	1:C:701:GLN:HB3	1.99	0.45
1:C:759:ARG:HG3	1:C:761:GLU:H	1.82	0.45
1:C:805:ASN:O	1:C:856:ASN:HA	2.17	0.45
1:C:807:THR:OG1	1:C:856:ASN:OD1	2.35	0.45
1:D:542:ASP:HB2	1:D:546:ILE:HD11	1.98	0.45
1:D:543:SER:O	1:D:547:SER:OG	2.25	0.45
1:D:603:ASN:ND2	1:D:606:GLN:HB2	2.32	0.45
1:E:221:ILE:O	1:E:222:ILE:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:256:LYS:HZ1	1:E:264:ARG:HG2	1.82	0.45
1:E:270:LYS:HZ2	1:E:274:GLU:CB	2.30	0.45
1:E:303:PRO:O	1:E:307:ARG:HG3	2.17	0.45
1:E:349:VAL:HG12	1:E:353:ARG:CG	2.43	0.45
1:E:386:ARG:HA	1:E:386:ARG:HD3	1.77	0.45
1:E:486:LEU:HD23	1:E:489:LYS:HZ1	1.82	0.45
1:E:620:LYS:C	1:E:623:LEU:HB3	2.37	0.45
1:E:712:GLN:OE1	1:E:714:LYS:NZ	2.48	0.45
1:F:216:ILE:HG22	1:F:388:LEU:HD11	1.97	0.45
1:F:349:VAL:O	1:F:353:ARG:HG2	2.17	0.45
1:F:615:LEU:HB2	1:F:772:PHE:CD1	2.51	0.45
1:F:778:LYS:HB2	1:F:781:HIS:CD2	2.51	0.45
1:F:819:TYR:HE1	1:F:827:PRO:HD2	1.82	0.45
1:A:285:GLU:O	1:A:288:MET:HB2	2.17	0.45
1:A:287:HIS:NE2	1:A:290:MET:HB2	2.31	0.45
1:A:822:ASP:CB	1:F:333:ARG:NH1	2.77	0.45
1:A:835:GLU:HA	1:A:838:ASN:ND2	2.30	0.45
1:A:854:THR:O	1:A:880:LEU:HD22	2.17	0.45
1:B:180:GLN:HG2	1:B:182:LYS:NZ	2.30	0.45
1:B:198:ARG:HB3	1:C:405:VAL:HG23	1.99	0.45
1:B:607:PRO:HG2	1:B:703:LEU:HA	1.97	0.45
1:B:770:VAL:O	1:B:771:ILE:HG13	2.17	0.45
1:B:784:VAL:HG12	1:B:788:LEU:HD21	1.99	0.45
1:C:262:GLU:HG2	1:C:263:GLU:OE2	2.17	0.45
1:C:377:GLN:O	1:C:380:LYS:N	2.50	0.45
1:C:630:PHE:CD1	1:C:631:LEU:HA	2.52	0.45
1:C:791:ILE:O	1:C:795:PHE:HB2	2.16	0.45
1:D:218:LYS:HZ1	2:D:1001:AGS:PA	2.34	0.45
1:D:270:LYS:O	1:D:273:GLU:HG2	2.16	0.45
1:D:393:LEU:O	1:D:396:VAL:N	2.50	0.45
1:D:618:SER:OG	1:D:772:PHE:HE2	2.00	0.45
1:D:631:LEU:HB3	1:D:632:PHE:CE2	2.52	0.45
1:D:794:ARG:NH1	1:D:794:ARG:HG2	2.31	0.45
1:D:810:ALA:O	1:D:813:PHE:HB3	2.17	0.45
1:D:830:ARG:O	1:D:833:GLN:HG2	2.16	0.45
1:E:166:TYR:CE2	1:E:167:LEU:HG	2.52	0.45
1:E:211:ILE:O	1:E:339:GLU:HG3	2.17	0.45
1:E:262:GLU:HG3	1:E:265:PHE:HD2	1.82	0.45
1:E:287:HIS:CE1	1:E:315:ALA:C	2.90	0.45
1:E:288:MET:HG2	1:E:290:MET:HB3	1.99	0.45
1:E:390:ASP:O	1:E:394:ASP:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:467:ASN:O	1:E:470:LYS:HB3	2.17	0.45
1:E:473:HIS:HA	1:E:521:GLU:HG2	1.99	0.45
1:E:476:LEU:HD11	1:E:517:ILE:HA	1.99	0.45
1:E:679:PRO:O	1:E:720:ASN:HB2	2.16	0.45
1:E:786:ILE:HA	1:E:789:LYS:CE	2.47	0.45
1:E:802:TYR:HB2	1:E:804:LEU:HD11	1.99	0.45
1:F:221:ILE:O	1:F:225:VAL:HG23	2.17	0.45
1:F:307:ARG:HH12	1:F:333:ARG:HH12	1.56	0.45
1:A:215:GLY:HA3	1:A:218:LYS:HE3	1.99	0.45
1:A:270:LYS:CA	1:A:273:GLU:HB2	2.47	0.45
1:A:612:PHE:H	1:A:770:VAL:H	1.65	0.45
1:A:622:GLU:O	1:A:625:LYS:N	2.50	0.45
1:A:689:GLU:HA	1:A:757:HIS:ND1	2.31	0.45
1:A:777:ARG:HH22	1:A:816:LYS:H	1.63	0.45
1:A:802:TYR:HA	1:A:852:LYS:HA	1.99	0.45
1:A:802:TYR:CD2	1:A:804:LEU:HB2	2.52	0.45
1:B:378:LEU:O	1:B:381:ARG:HG2	2.17	0.45
1:B:384:PRO:HD2	1:B:386:ARG:CG	2.46	0.45
1:B:543:SER:CA	1:B:546:ILE:HB	2.46	0.45
1:B:592:ASN:O	1:B:593:ALA:C	2.55	0.45
1:B:765:ARG:HD3	1:B:765:ARG:HA	1.41	0.45
1:B:795:PHE:HB3	1:B:798:ASN:OD1	2.17	0.45
1:C:168:SER:CA	1:C:264:ARG:CZ	2.59	0.45
1:C:198:ARG:CD	1:D:405:VAL:HG22	2.47	0.45
1:C:268:VAL:HA	1:C:271:GLU:HG3	1.97	0.45
1:C:281:LEU:HD12	1:C:312:VAL:CB	2.40	0.45
1:C:296:ASP:OD1	1:C:299:ASN:N	2.50	0.45
1:C:396:VAL:O	1:C:400:CYS:N	2.33	0.45
1:C:468:GLU:O	1:C:472:GLY:N	2.45	0.45
1:C:671:LEU:O	1:C:672:THR:C	2.55	0.45
1:C:763:LEU:O	1:C:766:ILE:N	2.41	0.45
1:C:839:LYS:HZ2	1:C:881:PRO:CD	2.29	0.45
1:D:166:TYR:O	1:D:170:TYR:CD1	2.70	0.45
1:D:176:GLU:O	1:D:179:ARG:HB2	2.17	0.45
1:D:232:ASP:C	1:D:495:ARG:HH21	2.20	0.45
1:D:248:LEU:CD1	1:D:251:LEU:HD12	2.44	0.45
1:D:328:ASP:HB3	1:D:331:PHE:CB	2.45	0.45
1:D:580:VAL:HA	1:D:626:LYS:HE2	1.98	0.45
1:D:781:HIS:CE1	1:D:808:GLN:HE22	2.35	0.45
1:D:808:GLN:CA	1:D:811:LYS:HD3	2.47	0.45
1:D:859:LEU:O	1:D:877:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:205:LYS:HD2	1:E:334:ARG:O	2.17	0.45
1:E:216:ILE:CD1	1:E:389:PRO:HD2	2.47	0.45
1:E:301:LEU:O	1:E:304:ALA:N	2.50	0.45
1:E:322:ARG:CG	1:E:323:SER:H	2.30	0.45
1:E:386:ARG:HB2	1:E:391:SER:HB2	1.98	0.45
1:E:570:ILE:HG13	1:E:571:HIS:N	2.33	0.45
1:E:591:SER:O	1:E:595:ARG:HG3	2.17	0.45
1:E:745:SER:O	1:E:748:ASN:N	2.50	0.45
1:F:175:THR:HG22	1:F:243:LEU:HD12	1.99	0.45
1:F:320:GLU:HB3	1:F:321:TYR:H	1.48	0.45
1:F:689:GLU:OE2	1:F:758:PHE:CG	2.70	0.45
1:F:836:ILE:HG22	1:F:840:LEU:CD1	2.47	0.45
1:A:169:LYS:HZ1	1:A:170:TYR:HE1	1.54	0.44
1:A:213:GLU:CB	1:A:387:ARG:HH21	2.29	0.44
1:A:216:ILE:O	1:A:217:GLY:C	2.56	0.44
1:A:236:THR:O	1:A:238:LEU:N	2.50	0.44
1:A:596:LEU:CD2	1:B:838:ASN:HA	2.46	0.44
1:A:683:LEU:O	1:A:723:VAL:HB	2.17	0.44
1:B:281:LEU:HD12	1:B:282:PHE:CD1	2.52	0.44
1:B:302:LYS:HZ3	1:B:306:SER:N	2.12	0.44
1:B:369:ASP:O	1:B:372:LEU:N	2.50	0.44
1:B:544:ASP:C	1:B:560:LYS:HZ3	2.20	0.44
1:B:739:GLY:HA2	1:B:774:LYS:HD2	1.99	0.44
1:B:798:ASN:HB3	1:B:802:TYR:HE1	1.82	0.44
1:C:158:ALA:C	1:C:159:ASP:O	2.53	0.44
1:C:221:ILE:O	1:C:222:ILE:C	2.55	0.44
1:C:281:LEU:H	1:C:311:LYS:HG3	1.82	0.44
1:C:310:LEU:HA	1:C:310:LEU:HD23	1.81	0.44
1:C:620:LYS:HB3	1:C:772:PHE:CE1	2.52	0.44
1:C:838:ASN:O	1:C:842:LEU:HB2	2.17	0.44
1:D:189:ARG:HH12	1:D:341:ALA:CB	2.14	0.44
1:D:190:GLU:N	1:D:192:GLU:OE2	2.50	0.44
1:D:200:LEU:HD23	1:D:200:LEU:HA	1.75	0.44
1:D:290:MET:C	1:D:294:LYS:HA	2.38	0.44
1:D:343:PRO:HB2	1:D:347:GLN:HB3	1.98	0.44
1:D:557:PRO:CB	1:D:558:VAL:HG23	2.47	0.44
1:D:559:LYS:HE2	1:D:560:LYS:HZ2	1.82	0.44
1:D:592:ASN:HB3	1:E:838:ASN:HD21	1.82	0.44
1:D:630:PHE:CD2	1:D:631:LEU:N	2.86	0.44
1:D:684:LEU:CG	1:D:726:THR:H	2.30	0.44
1:D:702:MET:SD	1:D:706:GLY:HA2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:874:GLU:CB	1:D:876:CYS:HB2	2.47	0.44
1:E:213:GLU:O	1:E:218:LYS:HE3	2.16	0.44
1:E:216:ILE:HG12	1:E:217:GLY:H	1.81	0.44
1:E:234:VAL:CG2	1:E:238:LEU:HB2	2.47	0.44
1:E:368:LEU:H	1:E:540:VAL:CB	2.26	0.44
1:E:473:HIS:O	1:E:477:THR:N	2.28	0.44
1:E:659:THR:OG1	1:E:667:GLU:OE1	2.34	0.44
1:E:828:LEU:O	1:E:829:ASN:C	2.54	0.44
1:F:198:ARG:C	1:F:202:ARG:HH21	2.20	0.44
1:F:266:LYS:HA	1:F:269:LEU:HD12	1.99	0.44
1:F:287:HIS:NE2	1:F:322:ARG:CB	2.80	0.44
1:F:351:ILE:HG22	1:F:355:LEU:HD22	1.99	0.44
1:F:616:SER:OG	2:F:1002:AGS:O3B	2.34	0.44
1:F:796:GLU:OE1	1:F:798:ASN:HB3	2.17	0.44
1:A:629:GLY:HA3	1:A:635:GLU:CG	2.48	0.44
1:A:781:HIS:NE2	1:A:782:LYS:HG3	2.32	0.44
1:B:193:ILE:O	1:B:197:ILE:HG13	2.17	0.44
1:B:202:ARG:NH1	1:B:204:ILE:O	2.49	0.44
1:B:244:PHE:C	1:B:281:LEU:HD23	2.37	0.44
1:B:284:ASP:OD2	1:B:285:GLU:HA	2.17	0.44
1:B:629:GLY:HA2	1:B:634:ASP:CA	2.43	0.44
1:B:739:GLY:CA	1:B:774:LYS:HD2	2.47	0.44
1:B:853:GLU:OE2	1:B:855:VAL:HG23	2.17	0.44
1:C:222:ILE:H	1:C:222:ILE:HG13	1.56	0.44
1:C:579:GLU:HB2	1:C:626:LYS:CE	2.46	0.44
1:C:584:MET:HG3	1:C:585:ASP:OD1	2.17	0.44
1:C:598:ARG:HA	1:C:598:ARG:HD3	1.35	0.44
1:C:783:ILE:O	1:C:786:ILE:HB	2.17	0.44
1:C:825:ALA:N	1:C:827:PRO:HG2	2.29	0.44
1:D:190:GLU:N	1:D:192:GLU:OE1	2.50	0.44
1:D:224:GLY:O	1:D:228:ARG:HG2	2.17	0.44
1:D:425:GLN:O	1:D:428:ILE:HB	2.16	0.44
1:D:591:SER:O	1:D:594:VAL:HB	2.17	0.44
1:D:641:VAL:HG12	1:D:642:ASP:H	1.83	0.44
1:D:808:GLN:C	1:D:811:LYS:HD3	2.37	0.44
1:E:400:CYS:O	1:E:403:VAL:HB	2.15	0.44
1:E:556:ILE:HB	1:E:560:LYS:CD	2.43	0.44
1:E:684:LEU:N	1:E:723:VAL:HG23	2.32	0.44
1:E:689:GLU:HA	1:E:758:PHE:HZ	1.83	0.44
1:E:701:GLN:CG	1:E:707:ARG:HB2	2.42	0.44
1:E:770:VAL:HA	1:E:771:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:777:ARG:CA	1:E:780:ILE:HG22	2.45	0.44
1:E:839:LYS:O	1:E:843:ARG:HG2	2.16	0.44
1:F:310:LEU:HG	1:F:311:LYS:H	1.82	0.44
1:A:209:CYS:C	1:A:315:ALA:HA	2.38	0.44
1:A:674:GLN:NE2	1:A:677:TYR:HE2	2.14	0.44
1:B:302:LYS:HD2	1:B:302:LYS:HA	1.76	0.44
1:B:391:SER:HA	1:B:394:ASP:CG	2.37	0.44
1:B:646:LEU:CB	1:B:690:LYS:H	2.27	0.44
1:B:654:LYS:NZ	1:B:694:ASP:HB2	2.29	0.44
1:C:129:ILE:O	1:C:131:LYS:N	2.50	0.44
1:C:335:PHE:N	1:C:335:PHE:CD1	2.86	0.44
1:C:345:VAL:HG21	1:C:380:LYS:HD3	1.98	0.44
1:C:366:ARG:O	1:C:539:ASN:HA	2.17	0.44
1:C:396:VAL:O	1:C:399:SER:HB2	2.17	0.44
1:C:397:ASP:O	1:C:398:ILE:C	2.55	0.44
1:C:558:VAL:HG13	1:C:561:LEU:CD1	2.47	0.44
1:C:563:GLU:OE2	1:C:564:SER:O	2.34	0.44
1:C:573:GLU:HA	1:C:576:LEU:CD1	2.46	0.44
1:C:799:ASP:O	1:C:801:HIS:CE1	2.71	0.44
1:C:833:GLN:NE2	1:C:834:ASN:HD21	2.15	0.44
1:C:837:LEU:C	1:C:840:LEU:H	2.20	0.44
1:D:381:ARG:HG3	1:D:382:TYR:CD1	2.52	0.44
1:D:556:ILE:HG21	1:D:633:ASN:ND2	2.32	0.44
1:D:605:ARG:HG3	1:D:704:ASP:HA	1.98	0.44
1:D:857:VAL:HG12	1:D:859:LEU:N	2.06	0.44
1:E:242:LYS:O	1:E:280:VAL:N	2.47	0.44
1:E:301:LEU:O	1:E:305:LEU:HG	2.18	0.44
1:E:363:HIS:CD2	1:E:400:CYS:HB3	2.53	0.44
1:E:363:HIS:HD2	1:E:400:CYS:SG	2.40	0.44
1:E:365:VAL:HB	1:E:538:GLN:C	2.38	0.44
1:E:392:ALA:O	1:E:396:VAL:HG23	2.17	0.44
1:E:596:LEU:HB3	1:F:837:LEU:HD21	2.00	0.44
1:E:618:SER:C	2:E:1002:AGS:N3	2.71	0.44
1:E:619:GLY:O	1:E:623:LEU:N	2.24	0.44
1:E:846:LYS:C	1:E:848:GLU:HG3	2.38	0.44
1:F:219:THR:HA	1:F:222:ILE:CG1	2.44	0.44
1:F:549:THR:O	1:F:552:ARG:HB3	2.17	0.44
1:F:563:GLU:HA	1:F:568:LYS:HD3	1.99	0.44
1:F:721:CYS:O	1:F:722:ILE:HD13	2.17	0.44
1:F:808:GLN:N	1:F:811:LYS:HZ1	2.14	0.44
1:A:221:ILE:O	1:A:222:ILE:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:PRO:HD2	1:A:238:LEU:HD11	1.99	0.44
1:A:317:THR:O	1:A:322:ARG:HB2	2.18	0.44
1:A:387:ARG:O	1:A:390:ASP:HB3	2.17	0.44
1:A:643:CYS:CB	1:A:685:PHE:HB3	2.47	0.44
1:A:843:ARG:NH2	1:A:880:LEU:O	2.51	0.44
1:B:226:ALA:O	1:B:229:ILE:HB	2.18	0.44
1:B:286:ILE:HG12	1:B:316:THR:CB	2.48	0.44
1:C:215:GLY:O	2:C:1001:AGS:O2B	2.36	0.44
1:C:261:PHE:O	1:C:262:GLU:C	2.55	0.44
1:C:282:PHE:CZ	1:C:284:ASP:HA	2.52	0.44
1:C:319:ASN:ND2	1:C:713:GLY:O	2.51	0.44
1:C:374:THR:O	1:C:378:LEU:HG	2.16	0.44
1:C:557:PRO:CB	1:C:560:LYS:HB2	2.48	0.44
1:C:699:MET:O	1:C:703:LEU:HD13	2.16	0.44
1:C:798:ASN:HA	1:C:801:HIS:HE2	1.83	0.44
1:C:814:LEU:O	1:C:818:GLY:CA	2.66	0.44
1:D:198:ARG:CG	1:E:404:ALA:HB3	2.43	0.44
1:D:260:ASP:CG	1:D:264:ARG:HB2	2.38	0.44
1:D:344:SER:CB	1:D:345:VAL:HG23	2.48	0.44
1:D:369:ASP:O	1:D:373:VAL:N	2.37	0.44
1:D:381:ARG:NH1	1:D:382:TYR:CE1	2.75	0.44
1:D:610:PHE:O	1:D:724:ILE:HG23	2.17	0.44
1:D:785:ASP:HA	1:D:788:LEU:HB2	1.98	0.44
1:E:360:GLU:OE2	1:E:365:VAL:HG22	2.17	0.44
1:E:573:GLU:HA	1:E:576:LEU:HB2	2.00	0.44
1:E:590:VAL:O	1:E:591:SER:C	2.55	0.44
1:E:843:ARG:CZ	1:E:882:ASN:HD22	2.30	0.44
1:F:194:ARG:N	1:F:228:ARG:NH1	2.49	0.44
1:F:331:PHE:CD1	1:F:334:ARG:O	2.57	0.44
1:F:389:PRO:O	1:F:392:ALA:N	2.51	0.44
1:F:707:ARG:CB	1:F:715:THR:HG21	2.47	0.44
1:A:203:ARG:O	1:A:204:ILE:HG12	2.17	0.44
1:A:205:LYS:HZ3	1:B:397:ASP:CB	2.16	0.44
1:A:235:PRO:O	1:A:238:LEU:HG	2.18	0.44
1:A:346:ARG:NH1	1:A:349:VAL:CG1	2.81	0.44
1:A:565:GLU:HA	1:A:568:LYS:CD	2.48	0.44
1:A:595:ARG:NH1	1:B:842:LEU:HD12	2.32	0.44
1:A:643:CYS:HG	1:A:725:MET:HB3	1.82	0.44
1:A:813:PHE:CZ	1:A:857:VAL:HG21	2.51	0.44
1:A:839:LYS:HD2	1:A:842:LEU:HD12	2.00	0.44
1:A:841:ALA:HA	1:A:844:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:PHE:N	1:B:70:ASN:H	2.15	0.44
1:B:205:LYS:HB3	1:B:336:GLN:CB	2.47	0.44
1:B:210:LEU:HD12	1:B:210:LEU:N	2.32	0.44
1:B:328:ASP:OD1	1:B:328:ASP:O	2.35	0.44
1:B:391:SER:HA	1:B:394:ASP:OD2	2.18	0.44
1:B:759:ARG:HD3	1:B:760:PRO:CD	2.48	0.44
1:C:168:SER:C	1:C:264:ARG:CZ	2.85	0.44
1:C:173:ASP:C	1:C:177:GLN:HB2	2.38	0.44
1:C:337:LYS:O	1:C:337:LYS:HG3	2.18	0.44
1:C:374:THR:HA	1:C:377:GLN:CD	2.38	0.44
1:C:595:ARG:HD3	1:D:841:ALA:HB1	2.00	0.44
1:C:622:GLU:HG2	1:C:826:ARG:HH22	1.83	0.44
1:C:641:VAL:HG12	1:C:642:ASP:N	2.32	0.44
1:C:743:GLN:HB3	1:C:745:SER:HB2	1.98	0.44
1:C:834:ASN:HA	1:C:837:LEU:CG	2.47	0.44
1:D:507:TYR:C	1:D:509:ALA:H	2.20	0.44
1:D:564:SER:O	1:D:568:LYS:N	2.43	0.44
1:D:680:TYR:HD1	1:D:720:ASN:C	2.21	0.44
1:D:780:ILE:O	1:D:781:HIS:C	2.56	0.44
1:D:791:ILE:O	1:D:792:GLU:C	2.55	0.44
1:E:209:CYS:C	1:E:210:LEU:HD12	2.38	0.44
1:E:303:PRO:CA	1:E:334:ARG:HH12	2.31	0.44
1:E:529:ARG:CZ	1:E:535:SER:HB3	2.47	0.44
1:E:583:GLN:HE22	1:E:772:PHE:HA	1.82	0.44
1:E:606:GLN:CD	1:F:794:ARG:CZ	2.85	0.44
1:E:632:PHE:HB2	1:E:634:ASP:HB2	1.99	0.44
1:E:688:VAL:CG1	1:E:690:LYS:H	2.22	0.44
1:E:747:LYS:O	1:E:750:VAL:HB	2.18	0.44
1:F:197:ILE:CG1	1:F:228:ARG:NH1	2.75	0.44
1:F:322:ARG:NH1	1:F:326:GLU:HA	2.32	0.44
1:F:651:ALA:O	1:F:654:LYS:HG3	2.17	0.44
1:F:826:ARG:N	1:F:827:PRO:HD3	2.32	0.44
1:A:176:GLU:OE1	1:A:176:GLU:N	2.50	0.44
1:A:610:PHE:HA	1:A:768:SER:O	2.18	0.44
1:A:736:SER:HB2	1:A:738:GLN:HE21	1.83	0.44
1:B:550:ALA:CA	1:B:552:ARG:NH1	2.80	0.44
1:B:693:PRO:HD2	1:B:694:ASP:N	2.22	0.44
1:B:843:ARG:HH11	1:B:848:GLU:CG	2.30	0.44
1:C:328:ASP:OD1	1:C:329:GLY:N	2.50	0.44
1:C:360:GLU:C	1:C:360:GLU:CD	2.75	0.44
1:C:371:ALA:C	1:C:542:ASP:OD2	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:LEU:HA	1:C:396:VAL:HB	1.99	0.44
1:C:570:ILE:O	1:C:573:GLU:OE1	2.36	0.44
1:D:243:LEU:HD23	1:D:244:PHE:N	2.32	0.44
1:D:262:GLU:O	1:D:265:PHE:HB3	2.18	0.44
1:D:616:SER:C	1:D:618:SER:H	2.21	0.44
1:D:622:GLU:O	1:D:623:LEU:C	2.56	0.44
1:D:763:LEU:CA	1:D:766:ILE:HG12	2.48	0.44
1:D:835:GLU:OE2	1:D:878:GLU:CB	2.65	0.44
1:D:855:VAL:CG2	1:D:880:LEU:HD22	2.46	0.44
1:E:219:THR:O	1:E:222:ILE:HB	2.18	0.44
1:E:245:SER:HA	1:E:281:LEU:HG	1.99	0.44
1:E:270:LYS:CD	1:E:273:GLU:HB2	2.47	0.44
1:E:307:ARG:O	1:E:309:GLN:HG3	2.17	0.44
1:E:454:SER:O	1:E:457:GLU:N	2.41	0.44
1:E:510:ILE:H	1:E:513:ILE:HG12	1.82	0.44
1:E:613:LEU:HG	1:E:728:ALA:CB	2.48	0.44
1:E:614:GLY:H	1:E:728:ALA:CB	2.30	0.44
1:E:637:MET:HG3	1:E:682:VAL:CG1	2.48	0.44
1:E:639:ILE:CB	1:E:683:LEU:HA	2.45	0.44
1:E:834:ASN:HA	1:E:837:LEU:HD12	1.99	0.44
1:E:853:GLU:CD	1:E:881:PRO:HB2	2.38	0.44
1:F:383:LEU:HD23	1:F:383:LEU:HA	1.67	0.44
1:F:390:ASP:HA	1:F:393:LEU:HB2	2.00	0.44
1:F:616:SER:HA	1:F:620:LYS:HB2	2.00	0.44
1:F:733:PHE:HB3	1:F:746:THR:CG2	2.47	0.44
1:A:206:SER:N	1:A:334:ARG:HB3	2.18	0.44
1:A:218:LYS:O	1:A:221:ILE:HB	2.18	0.44
1:A:285:GLU:HG3	1:A:287:HIS:N	2.32	0.44
1:A:358:LYS:HZ1	1:A:400:CYS:HB3	1.83	0.44
1:A:374:THR:O	1:A:377:GLN:N	2.51	0.44
1:A:625:LYS:HZ2	1:A:638:MET:HG2	1.83	0.44
1:B:384:PRO:HG2	1:B:385:TYR:H	1.82	0.44
1:B:555:GLY:C	1:B:556:ILE:HG23	2.37	0.44
1:B:683:LEU:HD22	1:B:723:VAL:O	2.18	0.44
1:B:710:SER:OG	1:B:712:GLN:HB3	2.18	0.44
1:B:777:ARG:HA	1:B:780:ILE:HG12	2.00	0.44
1:B:839:LYS:HZ3	1:B:877:LEU:CA	2.20	0.44
1:B:839:LYS:O	1:B:842:LEU:HD22	2.18	0.44
1:C:186:VAL:CG1	1:C:187:ILE:N	2.81	0.44
1:C:288:MET:HG3	1:C:320:GLU:OE2	2.17	0.44
1:C:577:SER:HA	1:C:581:VAL:N	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:637:MET:HG3	1:C:678:LYS:HE3	1.99	0.44
1:C:769:ILE:O	1:C:770:VAL:HB	2.18	0.44
1:C:845:LEU:HG	1:C:845:LEU:H	1.59	0.44
1:D:242:LYS:HG2	1:D:278:LEU:C	2.38	0.44
1:D:404:ALA:CA	1:D:407:ARG:HE	2.30	0.44
1:D:446:LYS:HG3	1:D:447:LEU:HD12	2.00	0.44
1:D:474:GLU:O	1:D:478:GLN:HG3	2.17	0.44
1:D:485:GLU:O	1:D:489:LYS:HG3	2.17	0.44
1:D:639:ILE:HG21	1:D:639:ILE:HD13	1.60	0.44
1:D:775:LEU:CB	1:D:780:ILE:HD11	2.47	0.44
1:E:203:ARG:CD	1:F:359:TYR:CE1	2.90	0.44
1:E:267:GLY:O	1:E:268:VAL:C	2.56	0.44
1:E:349:VAL:HA	1:E:352:LEU:CD1	2.46	0.44
1:E:366:ARG:HH12	1:E:368:LEU:CA	2.30	0.44
1:E:383:LEU:HD23	1:E:385:TYR:N	2.32	0.44
1:E:553:LEU:HA	1:E:553:LEU:HD23	1.63	0.44
1:E:564:SER:O	1:E:565:GLU:C	2.55	0.44
1:E:612:PHE:CA	1:E:771:ILE:HG13	2.48	0.44
1:E:626:LYS:HD3	1:E:626:LYS:HA	1.69	0.44
1:E:791:ILE:O	1:E:792:GLU:C	2.56	0.44
1:F:243:LEU:HA	1:F:281:LEU:HA	2.00	0.44
1:F:577:SER:HG	1:F:578:SER:H	1.66	0.44
1:F:632:PHE:C	1:F:634:ASP:H	2.19	0.44
1:F:683:LEU:HD22	1:F:685:PHE:CE1	2.53	0.44
1:F:755:ARG:NH1	1:F:763:LEU:O	2.49	0.44
1:F:843:ARG:HH21	1:F:849:ILE:HD13	1.82	0.44
1:A:352:LEU:O	1:A:355:LEU:HD13	2.18	0.44
1:A:583:GLN:NE2	1:A:773:ASN:N	2.66	0.44
1:A:625:LYS:C	1:A:628:ALA:H	2.21	0.44
1:B:213:GLU:HG2	1:B:387:ARG:HD2	2.00	0.44
1:B:359:TYR:CA	1:B:362:HIS:HB3	2.43	0.44
1:B:569:LEU:C	1:B:595:ARG:HE	2.21	0.44
1:B:605:ARG:HG3	1:B:606:GLN:HG2	2.00	0.44
1:B:632:PHE:CE2	1:B:680:TYR:HB3	2.53	0.44
1:B:655:LEU:HA	1:B:671:LEU:HD21	2.00	0.44
1:B:710:SER:C	1:B:713:GLY:H	2.21	0.44
1:B:801:HIS:HD1	1:B:851:ASP:CG	2.20	0.44
1:C:174:MET:HB2	1:C:242:LYS:HD2	2.00	0.44
1:C:313:ILE:O	1:C:313:ILE:HG22	2.17	0.44
1:C:385:TYR:CD2	1:C:386:ARG:N	2.86	0.44
1:C:549:THR:HG22	1:C:553:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:742:ILE:HG22	1:C:743:GLN:N	2.32	0.44
1:D:192:GLU:O	1:D:196:THR:OG1	2.18	0.44
1:D:193:ILE:HG22	1:D:197:ILE:HD11	1.99	0.44
1:D:195:SER:O	1:D:198:ARG:N	2.51	0.44
1:D:218:LYS:HG2	2:D:1001:AGS:PB	2.58	0.44
1:D:231:ASP:C	1:D:495:ARG:HE	2.14	0.44
1:D:245:SER:HA	1:D:282:PHE:CD2	2.52	0.44
1:D:294:LYS:HZ1	1:D:327:LYS:HD2	1.82	0.44
1:D:296:ASP:O	1:D:299:ASN:N	2.45	0.44
1:D:340:VAL:HG12	1:D:341:ALA:N	2.33	0.44
1:D:462:LEU:HG	1:D:465:ARG:CZ	2.48	0.44
1:D:470:LYS:HE3	1:D:470:LYS:HB3	1.68	0.44
1:D:805:ASN:OD1	1:D:855:VAL:O	2.36	0.44
1:E:205:LYS:HE3	1:E:336:GLN:NE2	2.33	0.44
1:E:216:ILE:O	2:E:1001:AGS:PA	2.75	0.44
1:E:227:GLN:O	1:E:231:ASP:N	2.42	0.44
1:E:307:ARG:NH2	1:F:248:LEU:HD11	2.33	0.44
1:E:346:ARG:HB3	1:E:347:GLN:CD	2.38	0.44
1:E:364:GLY:O	1:E:407:ARG:CZ	2.65	0.44
1:E:408:ASP:OD2	1:E:414:LEU:HD12	2.18	0.44
1:E:429:LYS:HE3	1:E:429:LYS:HB3	1.84	0.44
1:E:528:GLU:H	1:E:528:GLU:CD	2.20	0.44
1:E:583:GLN:CD	1:E:772:PHE:HD1	2.21	0.44
1:E:657:GLY:HA3	1:E:667:GLU:CA	2.46	0.44
1:E:780:ILE:HA	1:E:783:ILE:HB	2.00	0.44
1:E:833:GLN:CD	1:E:834:ASN:H	2.21	0.44
1:E:841:ALA:O	1:E:844:ILE:HB	2.17	0.44
1:F:210:LEU:CD1	1:F:339:GLU:HA	2.43	0.44
1:F:242:LYS:O	1:F:281:LEU:HB3	2.17	0.44
1:F:347:GLN:HG2	1:F:351:ILE:CD1	2.48	0.44
1:F:542:ASP:O	1:F:543:SER:HB3	2.18	0.44
1:F:593:ALA:HB3	1:F:608:ALA:O	2.17	0.44
1:F:682:VAL:C	1:F:723:VAL:HG21	2.38	0.44
1:F:792:GLU:HG2	1:F:793:GLU:N	2.32	0.44
1:F:837:LEU:HA	1:F:840:LEU:HD13	1.98	0.44
1:A:378:LEU:HA	1:A:381:ARG:HD2	1.99	0.44
1:A:557:PRO:O	1:A:561:LEU:HB2	2.17	0.44
1:A:571:HIS:CD2	1:A:574:ARG:CZ	3.00	0.44
1:A:753:ALA:O	1:A:756:GLN:HG2	2.18	0.44
1:B:210:LEU:HB3	1:B:339:GLU:HB3	2.00	0.44
1:B:234:VAL:CG1	1:B:238:LEU:HG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLU:CD	1:B:286:ILE:N	2.71	0.44
1:B:347:GLN:O	1:B:350:ALA:HB3	2.17	0.44
1:B:552:ARG:HG3	1:B:553:LEU:N	2.33	0.44
1:B:672:THR:HA	1:B:675:LEU:HD12	1.99	0.44
1:B:685:PHE:HB2	1:B:725:MET:HG2	1.99	0.44
1:B:685:PHE:HE2	1:B:687:GLU:OE2	2.01	0.44
1:B:761:GLU:CA	1:B:764:ASN:HB3	2.42	0.44
1:B:777:ARG:O	1:B:778:LYS:C	2.56	0.44
1:C:129:ILE:C	1:C:131:LYS:H	2.21	0.44
1:C:228:ARG:NH1	1:D:409:SER:OG	2.44	0.44
1:C:266:LYS:O	1:C:270:LYS:HG2	2.18	0.44
1:C:270:LYS:HA	1:C:270:LYS:HD3	1.67	0.44
1:C:526:GLU:H	1:C:533:ALA:HB2	1.81	0.44
1:C:546:ILE:O	1:C:549:THR:N	2.51	0.44
1:C:798:ASN:HA	1:C:801:HIS:NE2	2.32	0.44
1:C:836:ILE:O	1:C:839:LYS:N	2.50	0.44
1:D:331:PHE:CE2	1:D:335:PHE:HZ	2.36	0.44
1:D:348:THR:O	1:D:351:ILE:HB	2.17	0.44
1:D:658:THR:OG1	1:D:662:TYR:HB2	2.18	0.44
1:D:696:LEU:HA	1:D:699:MET:CB	2.42	0.44
1:D:733:PHE:CE2	1:D:746:THR:O	2.71	0.44
1:D:805:ASN:CG	1:D:856:ASN:HA	2.38	0.44
1:D:835:GLU:HA	1:D:838:ASN:ND2	2.33	0.44
1:E:310:LEU:HG	1:E:311:LYS:O	2.18	0.44
1:E:338:ILE:HG22	1:E:339:GLU:N	2.27	0.44
1:E:462:LEU:HG	1:E:466:TYR:HE2	1.83	0.44
1:E:510:ILE:HA	1:E:513:ILE:HG12	2.00	0.44
1:E:541:VAL:HB	1:E:545:THR:OG1	2.18	0.44
1:E:625:LYS:HE2	1:E:626:LYS:NZ	2.33	0.44
1:E:650:TYR:HD1	1:E:656:LEU:HG	1.83	0.44
1:E:742:ILE:HD11	1:E:773:ASN:HA	2.00	0.44
1:E:748:ASN:HA	1:E:751:MET:CG	2.24	0.44
1:E:806:LEU:HD11	1:E:856:ASN:HA	2.00	0.44
1:F:592:ASN:HB2	1:F:610:PHE:HE1	1.82	0.44
1:F:593:ALA:HB1	1:F:596:LEU:HB2	1.98	0.44
1:F:614:GLY:H	1:F:727:SER:C	2.21	0.44
1:F:778:LYS:O	1:F:780:ILE:N	2.51	0.44
1:F:820:SER:HB3	1:F:824:GLY:N	2.33	0.44
1:A:235:PRO:HA	1:B:408:ASP:OD1	2.18	0.43
1:A:387:ARG:HB2	1:A:390:ASP:HB3	2.00	0.43
1:A:564:SER:HB2	1:A:567:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:GLN:NE2	1:A:608:ALA:HA	2.33	0.43
1:A:623:LEU:HA	1:A:626:LYS:HB2	2.00	0.43
1:A:689:GLU:HG3	1:A:757:HIS:CD2	2.52	0.43
1:A:762:PHE:CD2	1:A:766:ILE:HD11	2.53	0.43
1:A:813:PHE:CG	1:A:857:VAL:HG11	2.52	0.43
1:A:831:LEU:O	1:A:832:ILE:C	2.55	0.43
1:B:88:PRO:N	1:B:93:GLY:HA3	2.33	0.43
1:B:176:GLU:C	1:B:178:ALA:H	2.21	0.43
1:B:292:ASN:HB3	1:B:295:ASP:CG	2.37	0.43
1:B:544:ASP:O	1:B:545:THR:C	2.56	0.43
1:B:551:ALA:O	1:B:554:THR:N	2.50	0.43
1:B:641:VAL:N	1:B:684:LEU:HD22	2.32	0.43
1:B:654:LYS:HZ2	1:B:694:ASP:H	1.59	0.43
1:B:735:ASN:CG	1:B:774:LYS:HE3	2.39	0.43
1:B:778:LYS:O	1:B:782:LYS:N	2.45	0.43
1:C:189:ARG:HA	1:C:192:GLU:OE2	2.18	0.43
1:C:221:ILE:HG22	1:C:225:VAL:HG23	1.99	0.43
1:C:243:LEU:CD1	1:C:280:VAL:HB	2.48	0.43
1:C:245:SER:HA	1:C:283:ILE:HA	1.99	0.43
1:C:282:PHE:HA	1:C:312:VAL:CG2	2.30	0.43
1:C:291:GLY:O	1:C:294:LYS:HG3	2.18	0.43
1:C:417:LYS:HZ3	1:C:463:ARG:HG2	1.82	0.43
1:C:776:SER:O	1:C:779:ALA:HB3	2.17	0.43
1:D:175:THR:HA	1:D:178:ALA:CB	2.45	0.43
1:D:462:LEU:HG	1:D:465:ARG:NH1	2.32	0.43
1:D:552:ARG:HD3	1:D:552:ARG:HA	1.63	0.43
1:D:655:LEU:HA	1:D:668:GLY:HA3	2.00	0.43
1:D:655:LEU:HG	1:D:671:LEU:HD11	2.00	0.43
1:D:710:SER:O	1:D:713:GLY:N	2.48	0.43
1:D:733:PHE:CE2	1:D:750:VAL:N	2.86	0.43
1:D:769:ILE:HG23	1:D:769:ILE:O	2.17	0.43
1:D:792:GLU:OE2	1:D:801:HIS:HA	2.18	0.43
1:E:200:LEU:HD23	1:E:206:SER:O	2.18	0.43
1:E:407:ARG:HA	1:E:536:MET:CE	2.48	0.43
1:E:483:LEU:HD12	1:E:513:ILE:CG2	2.48	0.43
1:E:598:ARG:C	1:E:601:LEU:HG	2.38	0.43
1:E:758:PHE:O	1:E:761:GLU:OE2	2.36	0.43
1:E:826:ARG:HB2	1:E:827:PRO:HD3	2.00	0.43
1:E:837:LEU:O	1:E:838:ASN:C	2.56	0.43
1:F:269:LEU:HA	1:F:269:LEU:HD23	1.81	0.43
1:F:269:LEU:CA	1:F:272:ILE:HG12	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:VAL:N	1:F:310:LEU:HD11	2.33	0.43
1:F:553:LEU:HD23	1:F:553:LEU:HA	1.76	0.43
1:F:748:ASN:HB2	1:F:749:LEU:HG	1.99	0.43
1:F:769:ILE:HG22	1:F:770:VAL:N	2.33	0.43
1:F:789:LYS:CA	1:F:792:GLU:OE2	2.65	0.43
1:F:820:SER:OG	1:F:822:ASP:N	2.50	0.43
2:F:1001:AGS:O2G	2:F:1001:AGS:O1B	2.35	0.43
1:A:176:GLU:HA	1:A:179:ARG:CB	2.34	0.43
1:A:204:ILE:HD12	1:A:334:ARG:NH2	2.33	0.43
1:A:258:LYS:NZ	1:A:295:ASP:CG	2.72	0.43
1:A:287:HIS:HA	1:A:290:MET:HG3	1.99	0.43
1:A:289:LEU:O	1:A:290:MET:HG3	2.18	0.43
1:A:605:ARG:HA	1:A:705:ASP:HA	2.01	0.43
1:A:656:LEU:O	1:A:669:GLY:N	2.51	0.43
1:A:804:LEU:HD12	1:A:855:VAL:CG2	2.48	0.43
1:A:828:LEU:O	1:A:831:LEU:HB3	2.18	0.43
1:B:169:LYS:HG3	1:B:170:TYR:N	2.33	0.43
1:B:208:PRO:HA	1:B:337:LYS:CB	2.48	0.43
1:B:210:LEU:CA	1:B:339:GLU:HB3	2.47	0.43
1:B:234:VAL:HG12	1:B:239:GLN:HG3	1.99	0.43
1:B:296:ASP:CB	1:B:300:ILE:HB	2.48	0.43
1:B:304:ALA:O	1:B:307:ARG:HB2	2.17	0.43
1:B:623:LEU:HG	1:B:624:ALA:N	2.32	0.43
1:B:630:PHE:CZ	1:B:631:LEU:HD23	2.53	0.43
1:B:634:ASP:HB2	1:B:635:GLU:OE1	2.18	0.43
1:B:728:ALA:HB1	1:B:732:GLU:CD	2.39	0.43
1:C:336:GLN:OE1	1:C:336:GLN:N	2.51	0.43
1:C:356:GLN:N	1:C:357:PRO:HD2	2.33	0.43
1:C:543:SER:OG	1:C:544:ASP:N	2.39	0.43
1:C:640:ARG:NE	1:C:684:LEU:HD13	2.33	0.43
1:C:655:LEU:HB2	1:C:671:LEU:HD11	2.00	0.43
1:D:180:GLN:HB3	1:D:182:LYS:CG	2.42	0.43
1:D:281:LEU:CD1	1:D:312:VAL:HG12	2.42	0.43
1:D:418:GLU:O	1:D:423:LEU:HG	2.18	0.43
1:D:543:SER:O	1:D:546:ILE:HB	2.18	0.43
1:D:559:LYS:HA	1:D:562:SER:OG	2.18	0.43
1:D:585:ASP:N	1:D:588:LYS:NZ	2.65	0.43
1:D:605:ARG:NH1	1:D:717:ASP:CG	2.70	0.43
1:D:752:GLY:HA2	1:D:755:ARG:CZ	2.48	0.43
1:D:792:GLU:HA	1:D:795:PHE:CZ	2.52	0.43
1:D:802:TYR:CG	1:D:853:GLU:OE2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:SER:O	1:E:246:LEU:HB2	2.18	0.43
1:E:283:ILE:HG22	1:E:284:ASP:N	2.34	0.43
1:E:409:SER:HB2	1:E:470:LYS:NZ	2.33	0.43
1:E:523:GLN:HA	1:E:526:GLU:HB2	1.99	0.43
1:E:549:THR:HG22	1:E:553:LEU:CD1	2.48	0.43
1:E:621:THR:OG1	2:E:1002:AGS:PA	2.76	0.43
1:E:650:TYR:CE1	1:E:694:ASP:OD2	2.70	0.43
1:E:807:THR:CA	1:E:811:LYS:NZ	2.81	0.43
1:F:179:ARG:HA	1:F:179:ARG:HD2	1.74	0.43
1:F:285:GLU:CD	1:F:288:MET:HG2	2.39	0.43
1:F:323:SER:HA	1:F:326:GLU:HB3	1.99	0.43
1:F:811:LYS:HA	1:F:814:LEU:HB2	2.00	0.43
1:F:853:GLU:OE2	1:F:854:THR:O	2.37	0.43
1:A:209:CYS:HA	1:A:315:ALA:HA	2.00	0.43
1:A:325:VAL:HA	1:A:328:ASP:HB2	2.00	0.43
1:A:579:GLU:OE1	1:A:580:VAL:N	2.52	0.43
1:A:591:SER:O	1:A:594:VAL:N	2.51	0.43
1:A:642:ASP:HA	1:A:686:ASP:HB2	1.99	0.43
1:B:189:ARG:NH2	1:B:342:GLU:C	2.72	0.43
1:B:237:ILE:HG13	1:B:238:LEU:N	2.34	0.43
1:B:286:ILE:HG13	1:B:320:GLU:OE2	2.19	0.43
1:B:375:ALA:HA	1:B:378:LEU:HB2	2.01	0.43
1:B:551:ALA:HA	1:B:554:THR:CG2	2.45	0.43
1:B:581:VAL:HG12	1:B:582:GLY:N	2.33	0.43
1:B:583:GLN:HE21	1:B:773:ASN:CB	2.31	0.43
1:B:583:GLN:O	1:B:584:MET:C	2.56	0.43
1:C:212:GLY:O	1:C:213:GLU:HB2	2.17	0.43
1:C:287:HIS:CG	1:C:288:MET:N	2.87	0.43
1:C:380:LYS:CG	1:C:381:ARG:N	2.81	0.43
1:C:502:ALA:O	1:C:506:ARG:HD3	2.17	0.43
1:C:586:ALA:O	1:C:587:ILE:C	2.56	0.43
1:D:266:LYS:HA	1:D:269:LEU:CD1	2.47	0.43
1:D:349:VAL:O	1:D:352:LEU:N	2.51	0.43
1:D:414:LEU:HD13	1:D:459:LEU:HD21	2.00	0.43
1:D:425:GLN:NE2	1:D:456:GLN:HE22	2.17	0.43
1:D:458:GLU:O	1:D:461:PRO:HD2	2.18	0.43
1:D:462:LEU:HD21	1:D:465:ARG:HH11	1.83	0.43
1:D:558:VAL:CA	1:D:561:LEU:HD13	2.48	0.43
1:D:689:GLU:HB2	1:D:729:LEU:HD12	2.00	0.43
1:D:699:MET:O	1:D:702:MET:N	2.51	0.43
1:D:747:LYS:O	1:D:751:MET:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:324:ILE:HA	1:E:327:LYS:NZ	2.33	0.43
1:E:352:LEU:HA	1:E:355:LEU:HG	2.00	0.43
1:E:428:ILE:HG12	1:E:449:ARG:HD3	2.00	0.43
1:E:544:ASP:HB2	1:E:545:THR:H	1.42	0.43
1:E:580:VAL:HG23	1:E:581:VAL:H	1.83	0.43
1:E:587:ILE:O	1:E:591:SER:OG	2.31	0.43
1:E:651:ALA:HA	1:E:656:LEU:HD12	2.00	0.43
1:E:803:LYS:HZ1	1:E:854:THR:CG2	2.31	0.43
1:E:805:ASN:HB2	1:E:807:THR:HG22	2.00	0.43
1:F:170:TYR:CG	1:F:250:ALA:HB2	2.53	0.43
1:F:220:ALA:O	1:F:223:GLU:HB2	2.18	0.43
1:F:348:THR:C	1:F:351:ILE:HB	2.38	0.43
1:F:378:LEU:O	1:F:383:LEU:HD12	2.19	0.43
1:F:389:PRO:HB2	1:F:393:LEU:HG	2.00	0.43
1:F:787:ARG:HA	1:F:787:ARG:HD3	1.73	0.43
1:A:216:ILE:HD13	1:A:216:ILE:HA	1.89	0.43
1:A:230:ILE:HG21	1:A:243:LEU:HD23	2.00	0.43
1:A:831:LEU:HD23	1:A:831:LEU:C	2.38	0.43
1:A:836:ILE:O	1:A:840:LEU:HG	2.18	0.43
1:B:229:ILE:HA	1:B:238:LEU:HD22	2.00	0.43
1:B:285:GLU:CD	1:B:287:HIS:ND1	2.71	0.43
1:B:362:HIS:CD2	1:B:363:HIS:CE1	3.06	0.43
1:B:396:VAL:O	1:B:399:SER:HB2	2.18	0.43
1:B:617:GLY:CA	1:B:826:ARG:HH11	2.30	0.43
1:B:681:SER:OG	1:B:683:LEU:HB2	2.18	0.43
1:B:699:MET:O	1:B:703:LEU:HG	2.19	0.43
1:C:174:MET:HE2	1:C:244:PHE:CA	2.36	0.43
1:C:284:ASP:O	1:C:287:HIS:CD2	2.71	0.43
1:C:333:ARG:NH1	1:C:334:ARG:HG3	2.33	0.43
1:C:343:PRO:HB2	1:C:347:GLN:HB2	2.01	0.43
1:C:433:ARG:HD3	1:C:434:ASP:H	1.82	0.43
1:C:541:VAL:O	1:C:545:THR:OG1	2.34	0.43
1:C:568:LYS:O	1:C:569:LEU:C	2.57	0.43
1:C:638:MET:HG3	1:C:682:VAL:HG13	1.98	0.43
1:C:754:VAL:O	1:C:758:PHE:CE2	2.71	0.43
1:D:177:GLN:CD	1:D:183:LEU:HG	2.38	0.43
1:D:208:PRO:N	1:D:336:GLN:HB3	2.33	0.43
1:D:211:ILE:HD13	1:D:340:VAL:HG21	1.99	0.43
1:D:278:LEU:HA	1:D:278:LEU:HD23	1.81	0.43
1:D:462:LEU:HD21	1:D:465:ARG:NH1	2.33	0.43
1:D:575:ASP:O	1:D:577:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:637:MET:CA	1:D:678:LYS:NZ	2.81	0.43
1:D:670:PHE:CG	1:D:671:LEU:N	2.84	0.43
1:D:800:LYS:HG2	1:D:800:LYS:H	1.53	0.43
1:E:186:VAL:HA	2:E:1001:AGS:N6	2.31	0.43
1:E:358:LYS:NZ	1:E:362:HIS:HE1	2.03	0.43
1:E:462:LEU:HG	1:E:466:TYR:CE2	2.53	0.43
1:E:566:ASN:O	1:E:570:ILE:N	2.49	0.43
1:E:596:LEU:HB3	1:F:837:LEU:CD2	2.49	0.43
1:F:226:ALA:HA	1:F:229:ILE:HB	2.01	0.43
1:F:290:MET:CG	1:F:293:GLY:HA2	2.45	0.43
1:F:331:PHE:CG	1:F:331:PHE:O	2.70	0.43
1:F:583:GLN:HE22	1:F:741:LYS:NZ	2.16	0.43
1:F:605:ARG:NH1	1:F:605:ARG:HG2	2.34	0.43
1:F:610:PHE:CA	1:F:768:SER:HB3	2.32	0.43
1:F:639:ILE:O	1:F:684:LEU:HD23	2.19	0.43
1:F:802:TYR:C	1:F:803:LYS:HG2	2.39	0.43
1:A:642:ASP:OD1	1:A:644:SER:OG	2.34	0.43
1:A:747:LYS:HG3	1:A:748:ASN:N	2.33	0.43
1:B:214:PRO:C	1:B:218:LYS:H	2.22	0.43
1:B:383:LEU:HB2	1:B:386:ARG:CG	2.48	0.43
1:B:610:PHE:C	1:B:724:ILE:HG21	2.39	0.43
1:B:674:GLN:O	1:B:675:LEU:C	2.57	0.43
1:B:759:ARG:HA	1:B:760:PRO:HD3	1.91	0.43
1:B:761:GLU:CD	1:B:762:PHE:H	2.22	0.43
1:C:170:TYR:HH	1:C:250:ALA:N	1.81	0.43
1:C:200:LEU:HD23	1:C:200:LEU:HA	1.50	0.43
1:C:274:GLU:H	1:C:276:LYS:NZ	2.15	0.43
1:C:345:VAL:C	1:C:348:THR:H	2.22	0.43
1:C:360:GLU:HB2	1:C:367:ILE:HD11	2.00	0.43
1:C:371:ALA:HA	1:C:374:THR:HG23	2.00	0.43
1:C:682:VAL:HG23	1:C:723:VAL:HG13	2.00	0.43
1:C:739:GLY:C	1:C:774:LYS:HD2	2.39	0.43
1:C:799:ASP:O	1:C:801:HIS:ND1	2.51	0.43
1:C:801:HIS:O	1:C:853:GLU:HG3	2.19	0.43
1:D:186:VAL:HG23	1:D:186:VAL:O	2.18	0.43
1:D:193:ILE:HG22	1:D:197:ILE:CD1	2.49	0.43
1:D:368:LEU:O	1:D:369:ASP:HB3	2.18	0.43
1:D:460:GLU:O	1:D:463:ARG:HB3	2.18	0.43
1:D:536:MET:N	1:D:538:GLN:H	2.16	0.43
1:D:618:SER:OG	1:D:772:PHE:CE2	2.71	0.43
1:D:831:LEU:H	1:D:831:LEU:HG	1.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:834:ASN:O	1:D:835:GLU:C	2.54	0.43
1:E:191:GLU:CG	1:E:192:GLU:N	2.82	0.43
1:E:214:PRO:C	1:E:218:LYS:NZ	2.50	0.43
1:E:266:LYS:HA	1:E:269:LEU:CD1	2.49	0.43
1:E:318:ASN:C	1:E:322:ARG:HH12	2.22	0.43
1:E:687:GLU:CA	1:E:727:SER:HA	2.48	0.43
1:E:699:MET:O	1:E:703:LEU:N	2.36	0.43
1:E:734:ILE:O	1:E:737:GLN:N	2.50	0.43
1:E:760:PRO:HA	1:E:763:LEU:CB	2.37	0.43
1:E:791:ILE:O	1:E:794:ARG:N	2.52	0.43
1:E:814:LEU:HA	1:E:814:LEU:HD23	1.61	0.43
1:E:850:LYS:HE2	1:E:850:LYS:HB2	1.65	0.43
1:F:167:LEU:N	1:F:169:LYS:NZ	2.46	0.43
1:F:783:ILE:HD11	1:F:787:ARG:CZ	2.49	0.43
1:F:785:ASP:O	1:F:788:LEU:HB3	2.18	0.43
1:A:213:GLU:HB3	1:A:214:PRO:CD	2.48	0.43
1:A:218:LYS:HZ2	1:A:387:ARG:HG3	1.83	0.43
1:A:542:ASP:N	1:A:542:ASP:OD1	2.51	0.43
1:A:564:SER:CB	1:A:567:GLU:OE2	2.66	0.43
1:A:607:PRO:HD3	1:A:706:GLY:CA	2.49	0.43
1:A:848:GLU:H	1:A:849:ILE:HG22	1.83	0.43
1:B:174:MET:SD	1:B:243:LEU:O	2.76	0.43
1:B:213:GLU:HG3	1:B:341:ALA:O	2.18	0.43
1:B:244:PHE:CD1	1:B:279:ILE:HG22	2.46	0.43
1:B:383:LEU:HD12	1:B:383:LEU:O	2.18	0.43
1:C:212:GLY:H	1:C:340:VAL:HG13	1.83	0.43
1:C:294:LYS:HZ3	1:C:327:LYS:HE2	1.84	0.43
1:C:548:GLU:N	1:C:548:GLU:CD	2.71	0.43
1:C:563:GLU:HG2	1:C:565:GLU:OE1	2.19	0.43
1:C:654:LYS:HB2	1:C:671:LEU:HD23	1.99	0.43
1:C:801:HIS:CE1	1:C:851:ASP:OD2	2.71	0.43
1:C:841:ALA:O	1:C:844:ILE:HB	2.18	0.43
1:D:211:ILE:HG22	1:D:212:GLY:O	2.18	0.43
1:D:362:HIS:CD2	1:D:363:HIS:CD2	2.94	0.43
1:D:399:SER:O	1:D:403:VAL:HG23	2.18	0.43
1:D:404:ALA:N	1:D:407:ARG:HE	2.16	0.43
1:D:630:PHE:CD2	1:D:631:LEU:HA	2.54	0.43
1:D:654:LYS:HE2	1:D:656:LEU:N	2.33	0.43
1:D:684:LEU:CG	1:D:725:MET:HA	2.38	0.43
1:D:692:HIS:CE1	1:D:694:ASP:HB2	2.53	0.43
1:D:748:ASN:N	1:D:748:ASN:ND2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:765:ARG:NH2	1:E:640:ARG:NH1	2.61	0.43
1:D:805:ASN:O	1:D:856:ASN:HB3	2.19	0.43
1:D:859:LEU:C	1:D:878:GLU:H	2.19	0.43
1:E:173:ASP:OD2	1:E:176:GLU:OE1	2.36	0.43
1:E:193:ILE:HG22	1:E:197:ILE:CD1	2.48	0.43
1:E:211:ILE:HB	1:E:318:ASN:N	2.33	0.43
1:E:224:GLY:O	1:E:227:GLN:HB3	2.18	0.43
1:E:522:ASP:C	1:E:526:GLU:HG2	2.39	0.43
1:E:585:ASP:OD1	1:E:586:ALA:N	2.50	0.43
1:E:773:ASN:HB2	1:E:775:LEU:HG	1.99	0.43
1:F:202:ARG:HD2	1:F:206:SER:C	2.39	0.43
1:F:207:ASN:HB2	1:F:335:PHE:CE1	2.53	0.43
1:F:612:PHE:CD1	1:F:770:VAL:HG21	2.54	0.43
1:F:689:GLU:OE2	1:F:758:PHE:CD1	2.71	0.43
1:F:723:VAL:HG12	1:F:724:ILE:N	2.32	0.43
1:A:173:ASP:HA	1:A:244:PHE:C	2.39	0.43
1:A:297:ALA:HA	1:A:301:LEU:HD22	2.01	0.43
1:A:332:GLU:OE2	1:A:334:ARG:CZ	2.61	0.43
1:A:693:PRO:C	1:A:696:LEU:HD11	2.39	0.43
1:B:261:PHE:HB2	1:B:265:PHE:CE2	2.54	0.43
1:B:261:PHE:CD2	1:B:262:GLU:N	2.81	0.43
1:B:324:ILE:HG22	1:B:332:GLU:OE2	2.19	0.43
1:C:198:ARG:CZ	1:D:405:VAL:HG22	2.49	0.43
1:C:205:LYS:HZ1	1:C:334:ARG:N	2.10	0.43
1:C:286:ILE:CG1	1:C:289:LEU:HB2	2.47	0.43
1:C:333:ARG:HH12	1:C:334:ARG:NE	2.15	0.43
1:C:349:VAL:HA	1:C:352:LEU:CG	2.48	0.43
1:C:376:ALA:O	1:C:379:ALA:HB3	2.19	0.43
1:C:395:LEU:O	1:C:396:VAL:C	2.56	0.43
1:C:504:ASP:O	1:C:507:TYR:HB3	2.19	0.43
1:C:610:PHE:CA	1:C:768:SER:HB3	2.48	0.43
1:C:628:ALA:HA	1:C:631:LEU:H	1.84	0.43
1:C:646:LEU:O	1:C:692:HIS:HB2	2.18	0.43
1:C:762:PHE:CE1	1:C:766:ILE:HD11	2.53	0.43
1:D:195:SER:O	1:D:196:THR:C	2.56	0.43
1:D:246:LEU:N	1:D:282:PHE:HD2	2.16	0.43
1:D:414:LEU:HD22	1:D:459:LEU:HD22	2.01	0.43
1:D:542:ASP:O	1:D:544:ASP:N	2.51	0.43
1:D:553:LEU:C	1:D:554:THR:HG1	2.14	0.43
1:D:680:TYR:HA	1:D:720:ASN:O	2.19	0.43
1:D:759:ARG:HA	1:D:760:PRO:HD3	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:833:GLN:HA	1:D:836:ILE:HG12	2.00	0.43
1:E:206:SER:C	1:E:311:LYS:NZ	2.66	0.43
1:E:285:GLU:O	1:E:286:ILE:C	2.56	0.43
1:E:332:GLU:CD	1:E:337:LYS:HG3	2.38	0.43
1:E:627:VAL:HG12	1:E:631:LEU:HD11	2.00	0.43
1:E:713:GLY:O	1:E:715:THR:HG23	2.19	0.43
1:F:392:ALA:O	1:F:395:LEU:N	2.52	0.43
1:F:800:LYS:HA	1:F:802:TYR:CD1	2.54	0.43
1:F:839:LYS:HD3	1:F:880:LEU:N	2.34	0.43
1:A:196:THR:HA	1:A:199:VAL:HG23	2.01	0.43
1:A:208:PRO:CB	1:A:338:ILE:HD12	2.48	0.43
1:A:220:ALA:O	1:A:224:GLY:N	2.46	0.43
1:A:249:ALA:O	1:A:264:ARG:NH2	2.52	0.43
1:A:289:LEU:HD23	1:A:289:LEU:HA	1.74	0.43
1:A:617:GLY:HA2	1:A:620:LYS:CD	2.39	0.43
1:A:646:LEU:HD12	1:A:647:SER:N	2.34	0.43
1:A:748:ASN:O	1:A:752:GLY:N	2.51	0.43
1:A:806:LEU:CA	1:A:810:ALA:HB3	2.48	0.43
1:A:814:LEU:HA	1:A:817:TYR:HD2	1.83	0.43
1:B:234:VAL:HG12	1:B:238:LEU:HG	2.00	0.43
1:B:255:ALA:O	1:B:256:LYS:C	2.57	0.43
1:B:362:HIS:NE2	1:B:363:HIS:CE1	2.86	0.43
1:B:610:PHE:CB	1:B:768:SER:HB3	2.48	0.43
1:B:627:VAL:O	1:B:630:PHE:CE1	2.72	0.43
1:B:785:ASP:HA	1:B:788:LEU:CD1	2.49	0.43
1:B:814:LEU:HD23	1:B:814:LEU:HA	1.52	0.43
1:C:203:ARG:NH1	1:D:362:HIS:HB3	2.33	0.43
1:C:225:VAL:O	1:C:227:GLN:N	2.51	0.43
1:C:333:ARG:O	1:C:335:PHE:CD1	2.72	0.43
1:C:785:ASP:CG	1:C:789:LYS:HZ1	2.22	0.43
1:C:801:HIS:ND1	1:C:851:ASP:CG	2.72	0.43
1:D:375:ALA:O	1:D:378:LEU:HB2	2.19	0.43
1:D:393:LEU:O	1:D:396:VAL:HB	2.19	0.43
1:D:714:LYS:HG3	1:D:715:THR:N	2.34	0.43
1:D:721:CYS:SG	1:D:722:ILE:O	2.77	0.43
1:D:759:ARG:NE	1:D:763:LEU:HD21	2.32	0.43
1:D:857:VAL:HG13	1:D:879:VAL:O	2.19	0.43
1:E:187:ILE:HB	1:E:351:ILE:HD11	2.01	0.43
1:E:200:LEU:CB	1:E:311:LYS:HE3	2.48	0.43
1:E:318:ASN:O	1:E:321:TYR:CE2	2.72	0.43
1:E:369:ASP:OD1	1:E:369:ASP:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:394:ASP:O	1:E:395:LEU:C	2.55	0.43
1:E:650:TYR:O	1:E:654:LYS:HG2	2.18	0.43
1:F:200:LEU:HB3	1:F:238:LEU:HG	2.00	0.43
1:F:283:ILE:HB	1:F:289:LEU:CD2	2.48	0.43
1:F:378:LEU:HA	1:F:381:ARG:CB	2.44	0.43
1:F:878:GLU:H	1:F:878:GLU:CD	2.16	0.43
1:A:219:THR:O	1:A:223:GLU:HG2	2.18	0.43
1:A:299:ASN:OD1	1:A:299:ASN:N	2.52	0.43
1:A:380:LYS:HZ2	1:A:381:ARG:HA	1.75	0.43
1:A:571:HIS:CD2	1:A:574:ARG:HD2	2.51	0.43
1:A:592:ASN:O	1:A:595:ARG:HB3	2.18	0.43
1:A:858:VAL:HB	1:A:877:LEU:HD13	1.99	0.43
1:A:858:VAL:HG23	1:A:877:LEU:HD22	2.00	0.43
1:B:245:SER:C	1:B:246:LEU:HD12	2.38	0.43
1:B:310:LEU:HA	1:B:310:LEU:HD23	1.71	0.43
1:B:393:LEU:HD21	1:B:397:ASP:HB2	2.00	0.43
1:B:541:VAL:HB	1:B:543:SER:O	2.19	0.43
1:B:571:HIS:O	1:B:574:ARG:N	2.51	0.43
1:B:612:PHE:HB2	1:B:770:VAL:HB	2.01	0.43
1:B:671:LEU:HD12	1:B:672:THR:N	2.33	0.43
1:B:799:ASP:OD1	1:B:799:ASP:N	2.52	0.43
1:B:843:ARG:CZ	1:B:846:LYS:HE2	2.49	0.43
1:C:168:SER:CA	1:C:271:GLU:CD	2.77	0.43
1:C:208:PRO:HD2	1:C:313:ILE:HA	2.00	0.43
1:C:213:GLU:O	1:C:218:LYS:HE3	2.19	0.43
1:C:297:ALA:O	1:C:301:LEU:HD21	2.19	0.43
1:C:371:ALA:HA	1:C:374:THR:CG2	2.47	0.43
1:C:490:ALA:HB2	1:C:505:LEU:HD23	2.00	0.43
1:C:595:ARG:HG3	1:C:595:ARG:H	1.55	0.43
1:D:211:ILE:HB	1:D:321:TYR:CE2	2.54	0.43
1:D:231:ASP:OD1	1:D:231:ASP:N	2.49	0.43
1:D:245:SER:HA	1:D:282:PHE:CB	2.49	0.43
1:D:302:LYS:HD2	1:D:305:LEU:C	2.39	0.43
1:D:352:LEU:HG	1:D:352:LEU:H	1.60	0.43
1:D:473:HIS:HA	1:D:476:LEU:CD1	2.49	0.43
1:D:560:LYS:O	1:D:563:GLU:OE2	2.37	0.43
1:D:592:ASN:O	1:D:593:ALA:C	2.57	0.43
1:D:618:SER:C	1:D:826:ARG:NH1	2.57	0.43
1:D:696:LEU:CA	1:D:699:MET:HB3	2.41	0.43
1:D:704:ASP:O	1:D:705:ASP:HB3	2.18	0.43
1:D:731:ALA:HA	1:D:734:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:810:ALA:O	1:D:811:LYS:C	2.57	0.43
1:D:827:PRO:O	1:D:829:ASN:N	2.52	0.43
1:D:835:GLU:CD	1:D:839:LYS:HE2	2.39	0.43
1:E:173:ASP:O	1:E:173:ASP:CG	2.58	0.43
1:E:262:GLU:HA	1:E:265:PHE:CE2	2.54	0.43
1:E:265:PHE:CE2	1:E:298:ALA:HB2	2.54	0.43
1:E:268:VAL:O	1:E:272:ILE:HG12	2.19	0.43
1:E:620:LYS:HG2	2:E:1002:AGS:PA	2.59	0.43
1:E:675:LEU:N	1:E:676:GLN:OE1	2.52	0.43
1:E:683:LEU:HB3	1:E:723:VAL:CB	2.49	0.43
1:E:840:LEU:O	1:E:844:ILE:HG13	2.19	0.43
1:E:842:LEU:HA	1:E:845:LEU:CD2	2.49	0.43
1:F:673:ASN:HA	1:F:676:GLN:OE1	2.19	0.43
1:F:685:PHE:HB2	1:F:726:THR:H	1.82	0.43
1:F:781:HIS:CD2	1:F:782:LYS:HZ2	2.32	0.43
1:A:172:ILE:HD12	1:A:247:ASP:H	1.83	0.43
1:A:183:LEU:HD23	1:A:185:PRO:HD3	2.01	0.43
1:A:211:ILE:N	1:A:316:THR:N	2.66	0.43
1:A:225:VAL:O	1:A:227:GLN:N	2.52	0.43
1:A:599:SER:HB2	1:A:601:LEU:CG	2.49	0.43
1:A:623:LEU:O	1:A:626:LYS:HB2	2.19	0.43
1:B:173:ASP:OD1	1:B:177:GLN:N	2.51	0.43
1:B:211:ILE:HG12	1:B:318:ASN:CA	2.47	0.43
1:B:366:ARG:CG	1:B:407:ARG:HH22	2.32	0.43
1:B:544:ASP:CA	1:B:560:LYS:NZ	2.82	0.43
1:B:552:ARG:CG	1:B:553:LEU:N	2.81	0.43
1:B:591:SER:O	1:B:595:ARG:HG3	2.18	0.43
1:C:194:ARG:CA	1:C:197:ILE:HG12	2.49	0.43
1:C:207:ASN:OD1	1:C:207:ASN:C	2.57	0.43
1:C:246:LEU:O	1:C:283:ILE:HG22	2.19	0.43
1:C:290:MET:HB3	1:C:294:LYS:HZ2	1.84	0.43
1:C:359:TYR:CZ	1:C:397:ASP:OD2	2.72	0.43
1:C:368:LEU:HB3	1:C:372:LEU:HD21	2.00	0.43
1:C:416:SER:O	1:C:419:ARG:N	2.52	0.43
1:C:503:ALA:HB1	1:D:433:ARG:HG3	2.01	0.43
1:C:588:LYS:O	1:C:589:ALA:C	2.55	0.43
1:C:591:SER:CB	1:C:595:ARG:NH1	2.82	0.43
1:C:603:ASN:CG	1:C:605:ARG:HG2	2.38	0.43
1:C:688:VAL:HB	1:C:725:MET:CB	2.45	0.43
1:C:803:LYS:HD2	1:C:853:GLU:HG2	2.01	0.43
1:C:828:LEU:O	1:C:829:ASN:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:215:GLY:N	2:D:1001:AGS:O2G	2.52	0.43
1:D:272:ILE:CA	1:D:276:LYS:HZ2	2.32	0.43
1:D:421:LEU:HD23	1:D:452:GLU:OE2	2.19	0.43
1:D:576:LEU:CD1	1:D:630:PHE:HB2	2.49	0.43
1:D:610:PHE:H	1:D:724:ILE:CG2	2.29	0.43
1:D:627:VAL:O	1:D:630:PHE:HB3	2.19	0.43
1:D:644:SER:HA	1:D:692:HIS:H	1.84	0.43
1:D:797:GLN:NE2	1:D:800:LYS:NZ	2.59	0.43
1:E:167:LEU:HD12	1:E:168:SER:N	2.33	0.43
1:E:173:ASP:O	1:E:175:THR:OG1	2.34	0.43
1:E:173:ASP:OD2	1:E:175:THR:OG1	2.37	0.43
1:E:186:VAL:HA	2:E:1001:AGS:C5	2.47	0.43
1:E:221:ILE:O	1:E:224:GLY:N	2.52	0.43
1:E:247:ASP:CB	1:E:249:ALA:HB3	2.49	0.43
1:E:359:TYR:CD1	1:E:362:HIS:CE1	3.07	0.43
1:E:424:ILE:O	1:E:428:ILE:HG13	2.18	0.43
1:E:429:LYS:HG2	1:E:432:GLU:OE1	2.18	0.43
1:E:611:LEU:HB3	1:E:769:ILE:CG1	2.48	0.43
1:E:672:THR:O	1:E:676:GLN:OE1	2.37	0.43
1:E:799:ASP:CG	1:E:800:LYS:H	2.14	0.43
1:E:853:GLU:OE1	1:E:881:PRO:HB2	2.19	0.43
1:E:859:LEU:C	1:E:877:LEU:H	2.22	0.43
1:F:285:GLU:HA	1:F:315:ALA:C	2.38	0.43
1:F:569:LEU:O	1:F:573:GLU:N	2.48	0.43
1:F:671:LEU:HD23	1:F:671:LEU:HA	1.53	0.43
1:F:687:GLU:C	1:F:727:SER:HG	2.22	0.43
1:F:796:GLU:HG3	1:F:799:ASP:N	2.20	0.43
1:F:798:ASN:O	1:F:801:HIS:CE1	2.72	0.43
1:A:297:ALA:HA	1:A:301:LEU:HB2	2.01	0.42
1:A:299:ASN:O	1:A:303:PRO:HG3	2.19	0.42
1:A:652:VAL:HG13	1:A:658:THR:HG21	2.01	0.42
1:A:781:HIS:CE1	1:A:782:LYS:HG3	2.54	0.42
1:B:189:ARG:C	1:B:192:GLU:OE1	2.58	0.42
1:B:210:LEU:HD23	1:B:339:GLU:HA	2.00	0.42
1:B:252:THR:HG21	1:B:256:LYS:HZ3	1.83	0.42
1:B:252:THR:OG1	1:B:260:ASP:OD1	2.36	0.42
1:B:286:ILE:HG21	1:B:320:GLU:CG	2.49	0.42
1:B:344:SER:N	1:B:347:GLN:NE2	2.66	0.42
1:B:386:ARG:HA	1:B:386:ARG:HD3	1.75	0.42
1:B:585:ASP:CA	1:B:588:LYS:HD3	2.41	0.42
1:B:754:VAL:O	1:B:758:PHE:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:ALA:C	1:C:223:GLU:OE1	2.57	0.42
1:C:282:PHE:CE1	1:C:283:ILE:O	2.72	0.42
1:C:289:LEU:O	1:C:290:MET:HB2	2.18	0.42
1:C:397:ASP:N	1:C:397:ASP:OD1	2.51	0.42
1:C:465:ARG:HH12	1:C:529:ARG:CZ	2.29	0.42
1:C:542:ASP:CG	1:C:543:SER:N	2.70	0.42
1:C:605:ARG:HE	1:C:606:GLN:HB2	1.83	0.42
1:C:716:ILE:HG22	1:C:717:ASP:OD1	2.19	0.42
1:D:177:GLN:O	1:D:180:GLN:HB2	2.19	0.42
1:D:241:ALA:C	1:D:278:LEU:HD23	2.39	0.42
1:D:320:GLU:HG3	1:D:712:GLN:NE2	2.33	0.42
1:D:369:ASP:OD1	1:D:369:ASP:C	2.58	0.42
1:D:503:ALA:O	1:D:507:TYR:CG	2.72	0.42
1:D:555:GLY:O	1:D:560:LYS:HE3	2.18	0.42
1:D:612:PHE:N	1:D:770:VAL:O	2.52	0.42
1:D:618:SER:CA	1:D:826:ARG:HH11	2.31	0.42
1:D:804:LEU:CA	1:D:854:THR:HA	2.45	0.42
1:E:202:ARG:CG	1:E:204:ILE:H	2.30	0.42
1:E:424:ILE:HG21	1:E:448:ALA:C	2.39	0.42
1:E:581:VAL:HG12	1:E:582:GLY:H	1.83	0.42
1:E:641:VAL:HB	1:E:684:LEU:CD2	2.49	0.42
1:E:733:PHE:HA	1:E:736:SER:HB2	2.00	0.42
1:E:761:GLU:CG	1:E:762:PHE:N	2.82	0.42
1:F:265:PHE:CZ	1:F:269:LEU:HD21	2.53	0.42
1:F:395:LEU:HA	1:F:395:LEU:HD23	1.80	0.42
1:F:781:HIS:O	1:F:784:VAL:HG13	2.19	0.42
1:F:819:TYR:CE2	1:F:828:LEU:HD12	2.54	0.42
1:F:877:LEU:HD23	1:F:877:LEU:HA	1.83	0.42
1:A:219:THR:HA	1:A:222:ILE:HG12	2.00	0.42
1:A:236:THR:O	1:A:239:GLN:CD	2.57	0.42
1:A:355:LEU:O	1:A:357:PRO:HD3	2.18	0.42
1:A:543:SER:CA	1:A:547:SER:HB3	2.38	0.42
1:A:625:LYS:HA	1:A:628:ALA:CB	2.46	0.42
1:A:806:LEU:HA	1:A:810:ALA:HB3	1.99	0.42
1:B:166:TYR:CB	1:B:169:LYS:NZ	2.82	0.42
1:B:186:VAL:HG22	1:B:355:LEU:HD11	2.01	0.42
1:B:268:VAL:CA	1:B:271:GLU:HB2	2.45	0.42
1:B:603:ASN:HB3	1:B:605:ARG:NE	2.34	0.42
1:B:615:LEU:HD23	1:B:615:LEU:HA	1.81	0.42
1:B:647:SER:H	1:B:690:LYS:C	2.22	0.42
1:B:820:SER:N	1:B:828:LEU:HD11	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:223:GLU:HA	1:C:226:ALA:HB3	2.01	0.42
1:C:229:ILE:C	1:C:232:ASP:H	2.22	0.42
1:C:247:ASP:CG	1:C:248:LEU:HB2	2.39	0.42
1:C:356:GLN:HG3	1:C:367:ILE:CD1	2.42	0.42
1:C:407:ARG:NH1	1:C:539:ASN:H	2.16	0.42
1:C:524:VAL:HG13	1:C:533:ALA:HB3	2.00	0.42
1:C:585:ASP:HB3	1:C:588:LYS:HE2	2.01	0.42
1:C:596:LEU:HA	1:C:596:LEU:HD23	1.61	0.42
1:C:607:PRO:HB2	1:C:722:ILE:HA	2.01	0.42
1:C:689:GLU:OE2	1:C:729:LEU:HD13	2.19	0.42
1:C:722:ILE:HG13	1:C:723:VAL:N	2.34	0.42
1:C:843:ARG:NH1	1:C:848:GLU:CB	2.71	0.42
1:D:227:GLN:O	1:D:230:ILE:HB	2.18	0.42
1:D:299:ASN:N	1:D:301:LEU:HD21	2.34	0.42
1:D:351:ILE:HG23	2:D:1001:AGS:C2	2.49	0.42
1:D:390:ASP:O	1:D:394:ASP:N	2.49	0.42
1:D:393:LEU:O	1:D:394:ASP:C	2.57	0.42
1:D:507:TYR:CD2	1:E:429:LYS:HD3	2.54	0.42
1:E:173:ASP:HB3	1:E:176:GLU:OE2	2.20	0.42
1:E:193:ILE:O	1:E:194:ARG:C	2.58	0.42
1:E:200:LEU:HG	1:E:200:LEU:H	1.66	0.42
1:E:228:ARG:HH12	1:E:231:ASP:C	2.22	0.42
1:E:276:LYS:HG2	1:E:277:THR:O	2.18	0.42
1:E:298:ALA:CA	1:E:301:LEU:HB3	2.49	0.42
1:E:473:HIS:O	1:E:521:GLU:OE2	2.37	0.42
1:E:543:SER:O	1:E:544:ASP:C	2.58	0.42
1:E:619:GLY:CA	2:E:1002:AGS:H5'2	2.48	0.42
1:E:649:LYS:O	1:E:651:ALA:N	2.50	0.42
1:F:205:LYS:HB2	1:F:205:LYS:HE2	1.71	0.42
1:F:239:GLN:N	1:F:278:LEU:HD12	2.27	0.42
1:F:556:ILE:HG12	1:F:559:LYS:HZ2	1.78	0.42
1:F:575:ASP:O	1:F:579:GLU:N	2.51	0.42
1:F:606:GLN:O	1:F:606:GLN:HG3	2.20	0.42
1:F:613:LEU:O	1:F:772:PHE:CE1	2.72	0.42
1:F:731:ALA:CA	1:F:734:ILE:HB	2.42	0.42
1:F:749:LEU:HD23	1:F:749:LEU:HA	1.80	0.42
1:F:832:ILE:HA	1:F:835:GLU:CD	2.37	0.42
1:A:260:ASP:O	1:A:263:GLU:HB2	2.19	0.42
1:A:287:HIS:CD2	1:A:321:TYR:OH	2.72	0.42
1:A:758:PHE:CG	1:A:759:ARG:N	2.86	0.42
1:B:191:GLU:N	1:B:191:GLU:CD	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:THR:HA	1:B:199:VAL:CG2	2.49	0.42
1:B:357:PRO:O	1:B:360:GLU:HB3	2.19	0.42
1:B:360:GLU:HG3	1:B:367:ILE:HD12	2.01	0.42
1:B:630:PHE:CD2	1:B:631:LEU:N	2.88	0.42
1:B:750:VAL:O	1:B:754:VAL:HG23	2.19	0.42
1:B:762:PHE:HA	1:B:765:ARG:HG2	2.00	0.42
1:C:193:ILE:O	1:C:196:THR:HB	2.20	0.42
1:C:299:ASN:OD1	1:C:300:ILE:HG13	2.19	0.42
1:C:611:LEU:HB3	1:C:769:ILE:C	2.39	0.42
1:C:709:THR:HA	1:C:716:ILE:H	1.84	0.42
1:C:738:GLN:CD	1:C:743:GLN:HG2	2.39	0.42
1:C:835:GLU:O	1:C:838:ASN:OD1	2.38	0.42
1:D:234:VAL:O	1:D:239:GLN:HB2	2.18	0.42
1:D:276:LYS:HE2	1:D:279:ILE:CD1	2.50	0.42
1:D:360:GLU:OE2	1:D:366:ARG:HA	2.19	0.42
1:D:362:HIS:CD2	1:D:363:HIS:N	2.88	0.42
1:D:386:ARG:HG2	1:D:391:SER:HB3	2.00	0.42
1:D:515:LYS:HA	1:D:518:GLU:HB3	2.00	0.42
1:D:548:GLU:O	1:D:552:ARG:HG2	2.20	0.42
1:D:714:LYS:CG	1:D:715:THR:N	2.83	0.42
1:D:808:GLN:HB3	1:D:812:ASP:OD2	2.19	0.42
1:D:827:PRO:O	1:D:828:LEU:C	2.57	0.42
1:D:842:LEU:CD2	1:D:843:ARG:HE	2.33	0.42
1:D:843:ARG:NH1	1:D:881:PRO:C	2.51	0.42
1:E:300:ILE:CD1	1:F:249:ALA:HB3	2.49	0.42
1:E:301:LEU:O	1:E:302:LYS:C	2.56	0.42
1:E:534:ASN:HD21	1:E:538:GLN:N	2.04	0.42
1:E:548:GLU:O	1:E:551:ALA:HB3	2.19	0.42
1:E:562:SER:N	1:E:563:GLU:OE1	2.52	0.42
1:E:612:PHE:HA	1:E:770:VAL:O	2.19	0.42
1:E:819:TYR:CZ	1:E:821:ASP:HA	2.53	0.42
1:E:851:ASP:CG	1:E:852:LYS:H	2.22	0.42
1:F:352:LEU:O	1:F:355:LEU:HB2	2.19	0.42
1:F:356:GLN:HE22	1:F:372:LEU:HD11	1.83	0.42
1:F:388:LEU:HB3	1:F:389:PRO:HD2	2.01	0.42
1:F:715:THR:O	1:F:715:THR:HG22	2.18	0.42
1:F:785:ASP:O	1:F:789:LYS:NZ	2.36	0.42
1:A:272:ILE:C	1:A:276:LYS:HZ3	2.06	0.42
1:A:597:SER:HA	1:A:602:ALA:HB2	2.00	0.42
1:A:687:GLU:HA	1:A:726:THR:O	2.19	0.42
1:A:748:ASN:HA	1:A:751:MET:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:790:GLU:HG2	1:A:791:ILE:HG13	2.02	0.42
1:A:804:LEU:HD12	1:A:855:VAL:HG21	2.00	0.42
1:A:820:SER:HG	1:A:822:ASP:H	1.66	0.42
1:A:826:ARG:HH22	1:F:304:ALA:HB1	1.84	0.42
1:B:174:MET:HB2	1:B:175:THR:H	1.53	0.42
1:B:211:ILE:O	1:B:317:THR:HA	2.20	0.42
1:B:245:SER:HB2	1:B:283:ILE:HA	2.02	0.42
1:B:246:LEU:O	1:B:283:ILE:HG21	2.19	0.42
1:B:321:TYR:HD2	1:B:322:ARG:HG3	1.84	0.42
1:B:352:LEU:HG	1:B:352:LEU:H	1.60	0.42
1:B:625:LYS:O	1:B:627:VAL:N	2.53	0.42
1:C:266:LYS:HA	1:C:269:LEU:CG	2.49	0.42
1:C:275:SER:C	1:C:276:LYS:HZ3	2.23	0.42
1:C:374:THR:HG23	1:C:374:THR:H	1.58	0.42
1:C:379:ALA:O	1:C:380:LYS:C	2.56	0.42
1:C:563:GLU:OE2	1:C:565:GLU:CD	2.58	0.42
1:C:803:LYS:HA	1:C:803:LYS:HD2	1.86	0.42
1:C:809:GLU:O	1:C:813:PHE:N	2.38	0.42
1:D:507:TYR:CD1	1:E:426:VAL:HA	2.55	0.42
1:D:594:VAL:O	1:D:597:SER:HB2	2.19	0.42
1:D:610:PHE:H	1:D:724:ILE:CG1	2.32	0.42
1:D:640:ARG:HA	1:D:683:LEU:HD11	2.00	0.42
1:D:672:THR:O	1:D:673:ASN:C	2.58	0.42
1:D:751:MET:CG	1:D:769:ILE:HD11	2.49	0.42
1:D:769:ILE:C	1:D:770:VAL:HG23	2.39	0.42
1:D:794:ARG:HH11	1:D:794:ARG:HG2	1.83	0.42
1:D:813:PHE:HE2	1:D:874:GLU:OE1	2.02	0.42
1:E:304:ALA:HA	1:E:307:ARG:CD	2.49	0.42
1:E:443:ASP:O	1:E:447:LEU:N	2.34	0.42
1:E:510:ILE:HA	1:E:513:ILE:H	1.84	0.42
1:E:529:ARG:NH2	1:E:535:SER:HB3	2.33	0.42
1:E:595:ARG:O	1:E:598:ARG:N	2.52	0.42
1:E:605:ARG:HA	1:E:706:GLY:HA2	2.01	0.42
1:E:613:LEU:O	1:E:771:ILE:HG23	2.19	0.42
1:E:785:ASP:CG	1:E:789:LYS:NZ	2.72	0.42
1:E:825:ALA:O	1:E:826:ARG:C	2.57	0.42
1:E:855:VAL:HA	1:E:880:LEU:CD2	2.48	0.42
1:F:369:ASP:OD1	1:F:369:ASP:N	2.51	0.42
1:F:787:ARG:HA	1:F:790:GLU:OE1	2.18	0.42
1:A:168:SER:HA	1:A:171:ALA:HB3	2.01	0.42
1:A:264:ARG:O	1:A:268:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:268:VAL:CA	1:A:271:GLU:HB3	2.49	0.42
1:A:378:LEU:O	1:A:379:ALA:C	2.57	0.42
1:A:387:ARG:HA	1:A:387:ARG:HD3	1.81	0.42
1:A:873:ALA:HB2	1:F:202:ARG:HA	2.00	0.42
1:B:176:GLU:C	1:B:178:ALA:N	2.71	0.42
1:B:187:ILE:CG1	1:B:351:ILE:HD13	2.49	0.42
1:B:211:ILE:C	1:B:316:THR:O	2.58	0.42
1:B:251:LEU:H	1:B:264:ARG:CZ	2.29	0.42
1:B:585:ASP:OD1	1:B:585:ASP:N	2.52	0.42
1:B:595:ARG:O	1:B:599:SER:N	2.51	0.42
1:B:673:ASN:O	1:B:676:GLN:HB3	2.20	0.42
1:C:191:GLU:O	1:C:192:GLU:C	2.57	0.42
1:C:291:GLY:HA2	1:C:327:LYS:HE2	2.01	0.42
1:C:331:PHE:HD1	1:C:335:PHE:HE2	1.68	0.42
1:C:342:GLU:OE2	1:C:388:LEU:HB3	2.19	0.42
1:C:420:GLN:NE2	1:C:455:LEU:O	2.52	0.42
1:C:629:GLY:N	1:C:635:GLU:OE2	2.32	0.42
1:C:682:VAL:HA	1:C:723:VAL:HG22	2.01	0.42
1:C:716:ILE:CG2	1:C:717:ASP:N	2.83	0.42
1:C:790:GLU:O	1:C:791:ILE:C	2.57	0.42
1:D:530:ARG:NH2	1:D:535:SER:HA	2.35	0.42
1:D:550:ALA:C	1:D:553:LEU:H	2.22	0.42
1:D:554:THR:O	1:D:556:ILE:HG13	2.19	0.42
1:D:813:PHE:HD1	1:D:814:LEU:HD23	1.84	0.42
1:E:186:VAL:HG22	2:E:1001:AGS:C4	2.50	0.42
1:E:358:LYS:HZ2	1:E:362:HIS:CE1	2.34	0.42
1:E:502:ALA:HB3	1:E:506:ARG:NH1	2.35	0.42
1:E:585:ASP:HA	1:E:588:LYS:HB3	2.00	0.42
1:E:610:PHE:O	1:E:725:MET:HG2	2.19	0.42
1:E:802:TYR:HB3	1:E:804:LEU:HG	2.02	0.42
1:F:594:VAL:H	1:F:610:PHE:HZ	1.67	0.42
1:F:656:LEU:HD13	1:F:711:GLY:HA2	1.93	0.42
1:F:804:LEU:HB3	1:F:855:VAL:CG2	2.41	0.42
1:F:810:ALA:O	1:F:811:LYS:C	2.57	0.42
1:A:238:LEU:HA	1:A:278:LEU:HD23	2.02	0.42
1:A:262:GLU:HA	1:A:266:LYS:H	1.84	0.42
1:A:378:LEU:HA	1:A:378:LEU:HD23	1.80	0.42
1:B:173:ASP:HB3	1:B:177:GLN:HG3	2.01	0.42
1:B:194:ARG:O	1:B:197:ILE:HB	2.20	0.42
1:B:209:CYS:N	1:B:337:LYS:HB3	2.34	0.42
1:B:272:ILE:O	1:B:274:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:THR:O	1:B:278:LEU:HD12	2.19	0.42
1:B:285:GLU:OE2	1:B:287:HIS:N	2.49	0.42
1:B:358:LYS:HG3	1:B:359:TYR:N	2.29	0.42
1:B:611:LEU:O	1:B:770:VAL:N	2.52	0.42
1:B:654:LYS:NZ	1:B:694:ASP:N	2.64	0.42
1:B:848:GLU:CD	1:B:882:ASN:H	2.22	0.42
1:C:180:GLN:HG2	1:C:182:LYS:HE3	2.01	0.42
1:C:217:GLY:O	1:C:221:ILE:HG13	2.20	0.42
1:C:261:PHE:O	1:C:265:PHE:HB3	2.18	0.42
1:C:345:VAL:HG21	1:C:377:GLN:HB2	2.01	0.42
1:C:620:LYS:N	1:C:772:PHE:HE1	2.18	0.42
1:C:627:VAL:C	1:C:635:GLU:OE2	2.58	0.42
1:C:646:LEU:HD23	1:C:646:LEU:HA	1.67	0.42
1:C:709:THR:OG1	1:C:715:THR:HA	2.20	0.42
1:C:777:ARG:HA	1:C:780:ILE:HG12	2.02	0.42
1:C:777:ARG:CA	1:C:780:ILE:HG12	2.49	0.42
1:C:786:ILE:CD1	1:C:789:LYS:NZ	2.83	0.42
1:C:839:LYS:HZ1	1:C:880:LEU:C	2.21	0.42
1:D:404:ALA:O	1:D:408:ASP:N	2.39	0.42
1:D:465:ARG:O	1:D:534:ASN:HB2	2.19	0.42
1:D:616:SER:HA	1:D:620:LYS:CE	2.50	0.42
1:D:692:HIS:HB3	1:D:695:VAL:CG2	2.50	0.42
1:D:715:THR:HG22	1:D:716:ILE:O	2.20	0.42
1:E:187:ILE:HD12	2:E:1001:AGS:N6	2.28	0.42
1:E:194:ARG:O	1:E:197:ILE:HB	2.18	0.42
1:E:262:GLU:OE2	1:E:297:ALA:O	2.38	0.42
1:E:544:ASP:O	1:E:548:GLU:HG2	2.19	0.42
1:E:570:ILE:HG13	1:E:571:HIS:ND1	2.35	0.42
1:E:680:TYR:N	1:E:680:TYR:CD1	2.88	0.42
1:E:770:VAL:CA	1:E:771:ILE:HD12	2.50	0.42
1:E:837:LEU:HA	1:E:840:LEU:HD22	2.00	0.42
1:F:275:SER:OG	1:F:310:LEU:HB2	2.19	0.42
1:F:286:ILE:O	1:F:289:LEU:HB2	2.19	0.42
1:F:707:ARG:CZ	1:F:707:ARG:HB2	2.48	0.42
1:F:730:GLY:HA3	1:F:750:VAL:HG11	2.00	0.42
1:F:775:LEU:HD12	1:F:776:SER:O	2.19	0.42
1:A:243:LEU:HD12	1:A:244:PHE:O	2.20	0.42
1:A:283:ILE:HD13	1:A:283:ILE:HA	1.74	0.42
1:A:385:TYR:CE2	1:A:386:ARG:HG3	2.54	0.42
1:A:541:VAL:HB	1:A:545:THR:H	1.84	0.42
1:A:556:ILE:HG22	1:A:559:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:768:SER:C	1:A:769:ILE:HG13	2.40	0.42
1:A:823:MET:CE	1:F:303:PRO:HB2	2.50	0.42
1:B:236:THR:O	1:B:239:GLN:HB2	2.20	0.42
1:B:322:ARG:O	1:B:326:GLU:HG2	2.20	0.42
1:B:542:ASP:O	1:B:543:SER:OG	2.31	0.42
1:B:591:SER:HB3	1:B:595:ARG:HH12	1.85	0.42
1:B:645:GLU:OE1	1:B:691:ALA:HB1	2.20	0.42
1:B:708:ILE:C	1:B:715:THR:HB	2.40	0.42
1:B:735:ASN:OD1	1:B:774:LYS:HE3	2.20	0.42
1:B:798:ASN:C	1:B:800:LYS:N	2.72	0.42
1:B:839:LYS:O	1:B:842:LEU:HB2	2.20	0.42
1:B:854:THR:HG22	1:B:855:VAL:O	2.20	0.42
1:C:189:ARG:HH12	1:C:341:ALA:H	1.62	0.42
1:C:195:SER:HB3	1:C:198:ARG:HH21	1.84	0.42
1:C:224:GLY:HA2	1:C:227:GLN:HB2	2.02	0.42
1:C:227:GLN:O	1:C:230:ILE:N	2.52	0.42
1:C:343:PRO:HG2	1:C:388:LEU:HD23	2.02	0.42
1:C:344:SER:O	1:C:347:GLN:HB2	2.19	0.42
1:C:354:GLY:O	1:C:357:PRO:HD2	2.20	0.42
1:C:355:LEU:HD13	1:C:358:LYS:CE	2.49	0.42
1:C:498:ASP:HB3	1:C:501:THR:H	1.85	0.42
1:C:685:PHE:CB	1:C:688:VAL:HA	2.49	0.42
1:C:693:PRO:O	1:C:697:THR:HG23	2.19	0.42
1:D:186:VAL:HG21	2:D:1001:AGS:H2'	2.01	0.42
1:D:190:GLU:O	1:D:194:ARG:HG3	2.18	0.42
1:D:193:ILE:O	1:D:196:THR:N	2.52	0.42
1:D:218:LYS:C	1:D:221:ILE:HB	2.40	0.42
1:D:281:LEU:HB2	1:D:312:VAL:CB	2.50	0.42
1:D:383:LEU:HB3	1:D:385:TYR:CZ	2.54	0.42
1:D:417:LYS:O	1:D:421:LEU:N	2.52	0.42
1:D:507:TYR:HB3	1:E:429:LYS:HB2	2.01	0.42
1:D:585:ASP:HA	1:D:588:LYS:CG	2.50	0.42
1:D:618:SER:HA	1:D:826:ARG:HG3	2.01	0.42
1:D:635:GLU:O	1:D:638:MET:HG3	2.20	0.42
1:D:744:GLU:O	1:D:747:LYS:HG3	2.19	0.42
1:E:379:ALA:HB2	1:E:395:LEU:HD21	2.02	0.42
1:E:617:GLY:CA	2:E:1002:AGS:O1B	2.65	0.42
1:E:674:GLN:OE1	1:E:678:LYS:N	2.53	0.42
1:E:855:VAL:HG12	1:E:856:ASN:N	2.34	0.42
1:F:191:GLU:O	1:F:194:ARG:N	2.52	0.42
1:F:201:ALA:C	1:F:203:ARG:NH1	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:234:VAL:HB	1:F:235:PRO:HD2	2.02	0.42
1:F:270:LYS:O	1:F:273:GLU:HB2	2.20	0.42
1:F:320:GLU:O	1:F:324:ILE:HG12	2.19	0.42
1:F:570:ILE:O	1:F:573:GLU:HB2	2.19	0.42
1:F:657:GLY:CA	1:F:667:GLU:HB2	2.38	0.42
1:F:708:ILE:N	1:F:715:THR:CG2	2.82	0.42
1:F:835:GLU:O	1:F:838:ASN:HB2	2.19	0.42
1:A:226:ALA:HB1	1:A:230:ILE:HG12	2.01	0.42
1:A:368:LEU:HD21	1:A:539:ASN:HB2	2.02	0.42
1:A:612:PHE:N	1:A:770:VAL:N	2.68	0.42
1:B:166:TYR:HA	1:B:169:LYS:HZ2	1.85	0.42
1:B:281:LEU:O	1:B:312:VAL:HG12	2.19	0.42
1:B:649:LYS:HB3	1:B:692:HIS:HE1	1.78	0.42
1:B:698:VAL:HA	1:B:701:GLN:CB	2.26	0.42
1:C:203:ARG:NE	1:D:362:HIS:CG	2.87	0.42
1:C:225:VAL:C	1:C:227:GLN:N	2.71	0.42
1:C:280:VAL:HA	1:C:311:LYS:CG	2.49	0.42
1:C:287:HIS:CG	1:C:288:MET:H	2.37	0.42
1:C:299:ASN:O	1:C:303:PRO:HG2	2.20	0.42
1:C:475:GLU:OE2	1:C:523:GLN:HB3	2.20	0.42
1:C:546:ILE:O	1:C:547:SER:C	2.56	0.42
1:C:596:LEU:HA	1:C:599:SER:CB	2.50	0.42
1:C:722:ILE:HD12	1:C:722:ILE:HA	1.88	0.42
1:C:801:HIS:ND1	1:C:851:ASP:OD2	2.52	0.42
1:C:857:VAL:HA	1:C:880:LEU:CB	2.37	0.42
1:D:166:TYR:HB2	1:D:264:ARG:CZ	2.49	0.42
1:D:192:GLU:CD	1:D:193:ILE:H	2.23	0.42
1:D:221:ILE:HD11	2:D:1001:AGS:C8	2.50	0.42
1:D:413:GLU:OE1	1:D:462:LEU:HD22	2.19	0.42
1:D:544:ASP:O	1:D:548:GLU:HG2	2.20	0.42
1:D:558:VAL:N	1:D:561:LEU:HD13	2.34	0.42
1:D:622:GLU:HG3	1:D:826:ARG:NH2	2.35	0.42
1:D:680:TYR:HD1	1:D:720:ASN:O	2.03	0.42
1:D:691:ALA:HB1	1:D:696:LEU:HD21	2.01	0.42
1:D:829:ASN:O	1:D:833:GLN:N	2.24	0.42
1:D:840:LEU:O	1:D:841:ALA:C	2.58	0.42
1:E:205:LYS:HB2	1:E:205:LYS:HE3	1.61	0.42
1:E:270:LYS:HA	1:E:273:GLU:HB2	2.00	0.42
1:E:342:GLU:OE2	1:E:388:LEU:HD22	2.20	0.42
1:E:613:LEU:CD1	1:E:728:ALA:HA	2.50	0.42
1:E:807:THR:O	1:E:811:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:205:LYS:HD3	1:F:336:GLN:N	2.34	0.42
1:F:547:SER:OG	1:F:548:GLU:N	2.53	0.42
1:F:646:LEU:HB2	1:F:691:ALA:HA	2.01	0.42
1:F:646:LEU:HA	1:F:692:HIS:NE2	2.34	0.42
1:A:211:ILE:H	1:A:316:THR:CG2	2.32	0.42
1:A:228:ARG:HA	1:A:231:ASP:CB	2.50	0.42
1:A:261:PHE:CD2	1:A:262:GLU:N	2.88	0.42
1:A:586:ALA:O	1:A:590:VAL:HG23	2.20	0.42
1:A:742:ILE:HD12	1:A:746:THR:HG21	2.01	0.42
1:A:786:ILE:HA	1:A:789:LYS:CE	2.50	0.42
1:A:792:GLU:HB3	1:A:793:GLU:OE1	2.19	0.42
1:A:879:VAL:HG12	1:A:880:LEU:H	1.85	0.42
1:B:213:GLU:OE2	1:B:342:GLU:HG3	2.20	0.42
1:B:313:ILE:HG22	1:B:314:GLY:N	2.33	0.42
1:B:594:VAL:HG22	1:B:610:PHE:HE2	1.85	0.42
1:B:646:LEU:HD12	1:B:690:LYS:N	2.25	0.42
1:B:732:GLU:O	1:B:735:ASN:N	2.52	0.42
1:C:186:VAL:HA	2:C:1001:AGS:N1	2.34	0.42
1:C:214:PRO:CA	1:C:218:LYS:HE3	2.49	0.42
1:C:216:ILE:O	2:C:1001:AGS:H1'	2.20	0.42
1:C:225:VAL:HG12	1:C:229:ILE:CD1	2.49	0.42
1:C:467:ASN:HA	1:C:470:LYS:HB3	2.01	0.42
1:C:575:ASP:O	1:C:576:LEU:C	2.57	0.42
1:C:696:LEU:HA	1:C:699:MET:CG	2.48	0.42
1:C:765:ARG:C	1:D:830:ARG:HH22	2.23	0.42
1:D:190:GLU:HG2	1:D:191:GLU:N	2.35	0.42
1:D:284:ASP:OD1	1:D:284:ASP:C	2.57	0.42
1:D:369:ASP:HA	1:D:372:LEU:CD1	2.38	0.42
1:D:514:LYS:O	1:D:517:ILE:HB	2.19	0.42
1:D:559:LYS:HG2	1:D:559:LYS:HZ2	1.45	0.42
1:D:620:LYS:O	1:D:623:LEU:HB2	2.20	0.42
1:D:708:ILE:HG22	1:D:714:LYS:C	2.41	0.42
1:D:847:ASN:CG	1:D:850:LYS:HZ3	2.19	0.42
1:E:174:MET:CG	1:E:177:GLN:HB2	2.29	0.42
1:E:303:PRO:N	1:E:334:ARG:HH12	2.17	0.42
1:E:356:GLN:N	1:E:357:PRO:HD2	2.35	0.42
1:E:585:ASP:CG	1:E:586:ALA:H	2.23	0.42
1:E:707:ARG:NH2	1:E:718:CYS:SG	2.93	0.42
1:E:772:PHE:CG	1:E:773:ASN:N	2.87	0.42
1:E:782:LYS:N	1:E:782:LYS:HD2	2.35	0.42
1:E:807:THR:CB	1:E:811:LYS:HZ2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:675:LEU:HA	1:F:678:LYS:O	2.20	0.42
1:F:701:GLN:CD	1:F:709:THR:OG1	2.51	0.42
1:F:702:MET:CB	1:F:708:ILE:CB	2.97	0.42
1:F:774:LYS:HG2	1:F:775:LEU:HG	2.02	0.42
1:F:812:ASP:CB	1:F:816:LYS:HZ3	2.32	0.42
1:F:829:ASN:OD1	1:F:830:ARG:HG2	2.19	0.42
1:A:166:TYR:O	1:A:170:TYR:CD2	2.73	0.42
1:A:335:PHE:CD1	1:A:335:PHE:N	2.83	0.42
1:A:625:LYS:C	1:A:635:GLU:OE2	2.58	0.42
1:A:803:LYS:CB	1:A:852:LYS:HE3	2.49	0.42
1:A:823:MET:HE1	1:F:304:ALA:HA	2.02	0.42
1:B:225:VAL:HG12	1:B:229:ILE:CD1	2.49	0.42
1:B:339:GLU:N	1:B:339:GLU:OE1	2.52	0.42
1:B:399:SER:O	1:B:403:VAL:HG23	2.19	0.42
1:B:619:GLY:CA	1:B:622:GLU:HB3	2.45	0.42
1:B:736:SER:OG	1:B:738:GLN:N	2.44	0.42
1:B:780:ILE:HA	1:B:783:ILE:HB	2.00	0.42
1:B:840:LEU:C	1:B:842:LEU:N	2.70	0.42
1:C:196:THR:HB	1:C:197:ILE:HD13	2.02	0.42
1:C:325:VAL:O	1:C:328:ASP:HB2	2.19	0.42
1:C:558:VAL:C	1:C:561:LEU:H	2.23	0.42
1:C:573:GLU:O	1:C:576:LEU:N	2.40	0.42
1:C:644:SER:OG	1:C:645:GLU:OE2	2.30	0.42
1:D:175:THR:CG2	1:D:230:ILE:HG13	2.50	0.42
1:D:352:LEU:HD23	1:D:352:LEU:HA	1.80	0.42
1:D:375:ALA:HB2	1:D:546:ILE:CD1	2.50	0.42
1:D:383:LEU:HD22	1:D:385:TYR:HE2	1.84	0.42
1:D:388:LEU:HB2	1:D:389:PRO:HD3	2.02	0.42
1:D:530:ARG:NH1	1:D:538:GLN:N	2.68	0.42
1:D:792:GLU:CD	1:D:801:HIS:HA	2.39	0.42
1:E:349:VAL:HA	1:E:352:LEU:CG	2.50	0.42
1:E:456:GLN:HG3	1:E:460:GLU:HB2	2.01	0.42
1:E:541:VAL:HG12	1:E:544:ASP:HB2	2.00	0.42
1:E:571:HIS:O	1:E:572:MET:C	2.58	0.42
1:E:609:SER:C	1:E:610:PHE:CD2	2.94	0.42
1:E:639:ILE:HD12	1:E:682:VAL:HG13	2.02	0.42
1:E:641:VAL:HG12	1:E:643:CYS:SG	2.60	0.42
1:E:698:VAL:HG23	1:E:699:MET:N	2.34	0.42
1:E:753:ALA:O	1:E:756:GLN:NE2	2.53	0.42
1:E:759:ARG:CZ	1:E:759:ARG:HB2	2.48	0.42
1:F:166:TYR:OH	1:F:263:GLU:OE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:217:GLY:H	2:F:1001:AGS:PG	2.42	0.42
1:F:394:ASP:O	1:F:397:ASP:N	2.53	0.42
1:F:625:LYS:NZ	1:F:636:ASP:C	2.74	0.42
1:F:732:GLU:HA	1:F:735:ASN:HB2	2.02	0.42
1:F:793:GLU:HA	1:F:797:GLN:CG	2.50	0.42
1:F:807:THR:O	1:F:808:GLN:C	2.58	0.42
1:A:218:LYS:NZ	1:A:387:ARG:HG3	2.35	0.41
1:A:358:LYS:NZ	1:A:400:CYS:HB3	2.34	0.41
1:B:198:ARG:CG	1:B:199:VAL:N	2.82	0.41
1:B:221:ILE:H	1:B:221:ILE:HG13	1.41	0.41
1:B:271:GLU:O	1:B:274:GLU:OE1	2.38	0.41
1:B:282:PHE:CD2	1:B:283:ILE:C	2.94	0.41
1:B:637:MET:HB3	1:B:682:VAL:CG2	2.50	0.41
1:B:773:ASN:N	1:B:773:ASN:OD1	2.47	0.41
1:B:791:ILE:HD13	1:B:833:GLN:HG3	2.01	0.41
1:C:210:LEU:CD1	1:C:337:LYS:HA	2.47	0.41
1:C:214:PRO:HA	1:C:218:LYS:CE	2.48	0.41
1:C:274:GLU:H	1:C:276:LYS:HZ1	1.66	0.41
1:C:285:GLU:OE1	1:C:287:HIS:NE2	2.52	0.41
1:C:290:MET:HG2	1:C:299:ASN:HD22	1.85	0.41
1:C:606:GLN:OE1	1:C:705:ASP:N	2.53	0.41
1:C:777:ARG:O	1:C:778:LYS:C	2.58	0.41
1:C:798:ASN:OD1	1:C:801:HIS:CE1	2.73	0.41
1:D:210:LEU:C	1:D:211:ILE:HG12	2.40	0.41
1:D:311:LYS:HE2	1:D:311:LYS:HB2	1.72	0.41
1:D:411:PRO:HB2	1:D:538:GLN:HB3	2.02	0.41
1:D:467:ASN:HA	1:D:470:LYS:HE3	2.01	0.41
1:D:553:LEU:C	1:D:555:GLY:H	2.23	0.41
1:D:570:ILE:HA	1:D:595:ARG:CZ	2.47	0.41
1:D:642:ASP:OD2	1:D:645:GLU:OE1	2.38	0.41
1:D:693:PRO:HA	1:D:696:LEU:HD12	2.02	0.41
1:D:794:ARG:HG2	1:D:795:PHE:HD1	1.85	0.41
1:D:847:ASN:CG	1:D:850:LYS:NZ	2.68	0.41
1:E:231:ASP:HA	1:E:495:ARG:NH2	2.35	0.41
1:E:342:GLU:HG3	1:E:343:PRO:HD2	2.02	0.41
1:E:373:VAL:O	1:E:376:ALA:N	2.53	0.41
1:E:470:LYS:HG2	1:E:474:GLU:CD	2.40	0.41
1:E:583:GLN:CD	1:E:772:PHE:CD1	2.93	0.41
1:E:607:PRO:HG3	1:E:707:ARG:CZ	2.50	0.41
1:E:659:THR:HA	1:E:667:GLU:OE1	2.20	0.41
1:E:771:ILE:HG22	1:E:772:PHE:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:777:ARG:O	1:E:780:ILE:HG22	2.19	0.41
1:E:779:ALA:O	1:E:783:ILE:HG13	2.20	0.41
1:E:794:ARG:HH22	1:E:796:GLU:C	2.23	0.41
1:E:836:ILE:O	1:E:840:LEU:HD13	2.20	0.41
1:F:290:MET:HG2	1:F:293:GLY:CA	2.42	0.41
1:F:317:THR:HG22	1:F:318:ASN:N	2.33	0.41
1:F:369:ASP:O	1:F:372:LEU:HB2	2.19	0.41
1:F:580:VAL:CG2	1:F:623:LEU:HD22	2.50	0.41
1:F:744:GLU:OE2	1:F:748:ASN:OD1	2.37	0.41
1:F:880:LEU:HG	1:F:881:PRO:N	2.32	0.41
1:A:302:LYS:HE2	1:A:305:LEU:O	2.20	0.41
1:A:378:LEU:HG	1:A:378:LEU:H	1.64	0.41
1:A:389:PRO:O	1:A:392:ALA:HB3	2.21	0.41
1:A:576:LEU:HD21	1:A:630:PHE:CD1	2.55	0.41
1:A:589:ALA:O	1:A:592:ASN:N	2.52	0.41
1:A:668:GLY:C	1:A:670:PHE:H	2.23	0.41
1:A:759:ARG:HA	1:A:760:PRO:HD3	1.87	0.41
1:A:830:ARG:NH2	1:F:275:SER:HB2	2.35	0.41
1:B:280:VAL:CG1	1:B:310:LEU:HA	2.44	0.41
1:B:596:LEU:H	1:B:596:LEU:HG	1.69	0.41
1:B:617:GLY:HA2	1:B:620:LYS:HZ2	1.72	0.41
1:B:620:LYS:O	1:B:623:LEU:HB3	2.19	0.41
1:B:641:VAL:H	1:B:684:LEU:HD22	1.85	0.41
1:B:777:ARG:O	1:B:780:ILE:HG12	2.20	0.41
1:C:210:LEU:C	1:C:211:ILE:HG22	2.39	0.41
1:C:237:ILE:HD13	1:D:362:HIS:CE1	2.55	0.41
1:C:262:GLU:CA	1:C:265:PHE:HB3	2.49	0.41
1:C:299:ASN:OD1	1:C:299:ASN:C	2.58	0.41
1:C:461:PRO:O	1:C:464:GLN:HB2	2.21	0.41
1:C:672:THR:H	1:C:672:THR:HG23	1.59	0.41
1:C:828:LEU:HB3	1:C:832:ILE:HD11	2.02	0.41
1:D:174:MET:C	1:D:176:GLU:N	2.71	0.41
1:D:211:ILE:N	1:D:316:THR:O	2.53	0.41
1:D:218:LYS:O	1:D:219:THR:C	2.57	0.41
1:D:508:PHE:CZ	1:D:512:ASP:HB3	2.54	0.41
1:D:587:ILE:HG22	1:D:591:SER:OG	2.20	0.41
1:D:605:ARG:NH1	1:D:707:ARG:HB3	2.35	0.41
1:D:722:ILE:CG2	1:D:723:VAL:H	2.19	0.41
1:D:802:TYR:CE2	1:D:853:GLU:HG3	2.54	0.41
1:D:826:ARG:N	1:D:827:PRO:CD	2.83	0.41
1:E:219:THR:O	1:E:223:GLU:N	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:HIS:HE1	1:E:315:ALA:C	2.23	0.41
1:E:356:GLN:HG3	1:E:367:ILE:HD12	2.02	0.41
1:E:428:ILE:HG12	1:E:449:ARG:CG	2.49	0.41
1:E:536:MET:CG	1:E:538:GLN:HB3	2.45	0.41
1:E:622:GLU:N	1:E:625:LYS:HD3	2.35	0.41
1:E:652:VAL:C	1:E:669:GLY:H	2.22	0.41
1:E:697:THR:O	1:E:700:LEU:HB3	2.21	0.41
1:E:723:VAL:HG13	1:E:724:ILE:N	2.34	0.41
1:E:794:ARG:NH2	1:E:797:GLN:NE2	2.68	0.41
1:E:813:PHE:HD2	1:E:857:VAL:HG11	1.84	0.41
1:E:825:ALA:CB	1:E:828:LEU:HB3	2.41	0.41
1:F:166:TYR:CZ	1:F:264:ARG:NH1	2.88	0.41
1:F:205:LYS:HZ3	1:F:333:ARG:C	2.22	0.41
1:F:699:MET:O	1:F:702:MET:HG2	2.20	0.41
1:F:715:THR:C	1:F:717:ASP:H	2.21	0.41
1:F:763:LEU:HA	1:F:763:LEU:HD23	1.79	0.41
1:F:808:GLN:CA	1:F:811:LYS:NZ	2.83	0.41
1:A:235:PRO:HD2	1:A:238:LEU:CD1	2.50	0.41
1:A:270:LYS:C	1:A:273:GLU:H	2.22	0.41
1:A:378:LEU:CD2	1:A:381:ARG:HD2	2.50	0.41
1:A:576:LEU:O	1:A:579:GLU:HB3	2.20	0.41
1:A:612:PHE:HD2	1:A:770:VAL:CA	2.33	0.41
1:A:785:ASP:CG	1:A:789:LYS:NZ	2.72	0.41
1:B:166:TYR:HA	1:B:169:LYS:CG	2.44	0.41
1:B:193:ILE:HB	1:B:225:VAL:HG22	2.02	0.41
1:B:195:SER:O	1:B:197:ILE:N	2.52	0.41
1:B:205:LYS:HZ1	1:B:334:ARG:HG2	1.86	0.41
1:B:220:ALA:C	1:B:223:GLU:OE1	2.59	0.41
1:B:566:ASN:OD1	1:B:570:ILE:HG13	2.21	0.41
1:B:592:ASN:O	1:B:596:LEU:HG	2.20	0.41
1:B:599:SER:O	1:B:602:ALA:HB3	2.20	0.41
1:B:607:PRO:HD3	1:B:705:ASP:O	2.19	0.41
1:C:251:LEU:HA	1:C:260:ASP:CG	2.41	0.41
1:C:318:ASN:O	1:C:321:TYR:HB3	2.20	0.41
1:C:333:ARG:HH11	1:C:334:ARG:NE	2.18	0.41
1:C:392:ALA:HA	1:C:395:LEU:HG	2.02	0.41
1:C:417:LYS:CG	1:C:456:GLN:HE22	2.30	0.41
1:C:492:ASP:O	1:C:495:ARG:HB2	2.19	0.41
1:C:514:LYS:O	1:C:517:ILE:HB	2.20	0.41
1:C:534:ASN:OD1	1:C:538:GLN:HB2	2.20	0.41
1:C:546:ILE:O	1:C:549:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:816:LYS:NZ	1:C:817:TYR:CE1	2.88	0.41
1:D:178:ALA:O	1:D:181:GLY:N	2.53	0.41
1:D:237:ILE:O	1:D:240:GLY:N	2.54	0.41
1:D:323:SER:O	1:D:326:GLU:OE2	2.38	0.41
1:D:356:GLN:HE21	1:D:366:ARG:HA	1.86	0.41
1:D:462:LEU:HA	1:D:465:ARG:CD	2.50	0.41
1:D:683:LEU:O	1:D:723:VAL:HG13	2.20	0.41
1:D:699:MET:O	1:D:700:LEU:C	2.57	0.41
1:D:728:ALA:C	1:D:730:GLY:N	2.72	0.41
1:D:846:LYS:HE2	1:D:846:LYS:HB2	1.73	0.41
1:E:190:GLU:O	1:E:191:GLU:C	2.59	0.41
1:E:205:LYS:NZ	1:E:334:ARG:CA	2.83	0.41
1:E:205:LYS:NZ	1:E:334:ARG:C	2.68	0.41
1:E:244:PHE:CB	1:E:281:LEU:HD12	2.50	0.41
1:E:262:GLU:CB	1:E:297:ALA:HB1	2.45	0.41
1:E:453:ALA:O	1:E:457:GLU:HG3	2.20	0.41
1:E:502:ALA:O	1:E:506:ARG:HG3	2.19	0.41
1:E:624:ALA:O	1:E:625:LYS:C	2.56	0.41
1:E:695:VAL:O	1:E:696:LEU:C	2.57	0.41
1:E:745:SER:H	1:E:747:LYS:CE	2.34	0.41
1:E:747:LYS:HB2	1:E:747:LYS:HE2	1.60	0.41
1:E:807:THR:HA	1:E:811:LYS:CD	2.50	0.41
1:E:807:THR:HA	1:E:811:LYS:HG3	2.03	0.41
1:E:814:LEU:HB3	1:E:828:LEU:HD21	2.02	0.41
1:F:363:HIS:CD2	1:F:400:CYS:HG	2.27	0.41
1:F:402:GLY:O	1:F:405:VAL:HB	2.20	0.41
1:F:616:SER:HB3	2:F:1002:AGS:O2A	2.20	0.41
1:F:745:SER:O	1:F:749:LEU:HG	2.20	0.41
1:F:790:GLU:O	1:F:793:GLU:OE2	2.38	0.41
1:F:833:GLN:HG3	1:F:834:ASN:N	2.35	0.41
1:A:179:ARG:HD2	1:A:242:LYS:HZ2	1.82	0.41
1:A:266:LYS:O	1:A:269:LEU:HB3	2.20	0.41
1:A:279:ILE:H	1:A:309:GLN:CG	2.33	0.41
1:A:355:LEU:N	1:A:360:GLU:OE1	2.53	0.41
1:A:582:GLY:H	1:A:584:MET:HE2	1.84	0.41
1:A:619:GLY:C	1:A:623:LEU:HB3	2.40	0.41
1:A:625:LYS:O	1:A:628:ALA:N	2.53	0.41
1:A:669:GLY:C	1:A:672:THR:H	2.23	0.41
1:A:739:GLY:O	1:A:742:ILE:HG12	2.21	0.41
1:A:763:LEU:HA	1:A:766:ILE:HD12	2.01	0.41
1:B:207:ASN:O	1:B:335:PHE:CZ	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:PHE:HA	1:B:268:VAL:CG2	2.50	0.41
1:B:287:HIS:HA	1:B:290:MET:CB	2.46	0.41
1:B:372:LEU:H	1:B:372:LEU:HG	1.31	0.41
1:B:542:ASP:OD1	1:B:544:ASP:HB2	2.20	0.41
1:B:548:GLU:CD	1:B:560:LYS:HD3	2.40	0.41
1:B:611:LEU:O	1:B:770:VAL:HB	2.20	0.41
1:B:825:ALA:O	1:B:826:ARG:C	2.58	0.41
1:B:842:LEU:C	1:B:846:LYS:HZ3	2.23	0.41
1:C:203:ARG:CG	1:C:204:ILE:N	2.83	0.41
1:C:208:PRO:HD3	1:C:313:ILE:CG2	2.48	0.41
1:C:652:VAL:HB	1:C:654:LYS:NZ	2.36	0.41
1:C:683:LEU:H	1:C:723:VAL:HG13	1.85	0.41
1:C:800:LYS:HA	1:C:851:ASP:OD1	2.20	0.41
1:D:260:ASP:OD1	1:D:264:ARG:HB2	2.21	0.41
1:D:411:PRO:CB	1:D:538:GLN:HB3	2.50	0.41
1:D:565:GLU:CG	1:D:566:ASN:H	2.29	0.41
1:D:584:MET:O	1:D:587:ILE:HB	2.20	0.41
1:D:620:LYS:HZ1	1:D:621:THR:HG23	1.85	0.41
1:D:642:ASP:HA	1:D:685:PHE:CE2	2.56	0.41
1:D:779:ALA:HA	1:D:782:LYS:NZ	2.36	0.41
1:D:805:ASN:CA	1:D:856:ASN:HB3	2.50	0.41
1:D:831:LEU:HA	1:D:834:ASN:ND2	2.34	0.41
1:E:186:VAL:HA	2:E:1001:AGS:N1	2.31	0.41
1:E:206:SER:O	1:E:208:PRO:HD2	2.20	0.41
1:E:219:THR:O	1:E:222:ILE:N	2.53	0.41
1:E:228:ARG:HH12	1:E:232:ASP:N	2.18	0.41
1:E:372:LEU:H	1:E:372:LEU:HG	1.26	0.41
1:E:598:ARG:HD3	1:E:598:ARG:HA	1.27	0.41
1:E:626:LYS:O	1:E:630:PHE:N	2.40	0.41
1:E:754:VAL:O	1:E:756:GLN:N	2.53	0.41
1:E:828:LEU:HG	1:E:832:ILE:CG1	2.48	0.41
1:F:242:LYS:HD3	1:F:242:LYS:HA	1.62	0.41
1:F:321:TYR:CD1	1:F:321:TYR:N	2.88	0.41
1:F:321:TYR:CD2	1:F:322:ARG:N	2.89	0.41
1:F:382:TYR:CE2	1:F:383:LEU:HD21	2.55	0.41
1:F:678:LYS:HG2	1:F:678:LYS:HZ2	1.65	0.41
1:F:704:ASP:H	1:F:765:ARG:NH1	2.18	0.41
1:F:806:LEU:O	1:F:811:LYS:HG3	2.20	0.41
1:A:283:ILE:O	1:A:313:ILE:O	2.39	0.41
1:A:552:ARG:HB3	1:A:552:ARG:CZ	2.50	0.41
1:A:607:PRO:HB3	1:A:719:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:PHE:HB2	1:A:770:VAL:C	2.41	0.41
1:A:613:LEU:CD1	1:A:727:SER:H	2.32	0.41
1:A:639:ILE:HG22	1:A:640:ARG:N	2.36	0.41
1:A:740:SER:HB3	1:A:774:LYS:HZ3	1.84	0.41
1:A:742:ILE:HD13	1:A:742:ILE:HA	1.89	0.41
1:A:785:ASP:OD1	1:A:789:LYS:NZ	2.53	0.41
1:A:813:PHE:CD2	1:A:814:LEU:N	2.89	0.41
1:B:165:GLU:O	1:B:169:LYS:HD3	2.21	0.41
1:B:282:PHE:CE2	1:B:284:ASP:HA	2.56	0.41
1:B:287:HIS:CD2	1:B:288:MET:N	2.89	0.41
1:B:300:ILE:CG2	1:C:248:LEU:HD23	2.50	0.41
1:B:564:SER:CA	1:B:568:LYS:HZ1	2.33	0.41
1:B:583:GLN:HG3	1:B:772:PHE:HA	2.01	0.41
1:B:587:ILE:O	1:B:590:VAL:HB	2.20	0.41
1:B:615:LEU:HD12	1:B:772:PHE:HE2	1.85	0.41
1:B:700:LEU:HA	1:B:703:LEU:HD12	2.03	0.41
1:B:784:VAL:O	1:B:788:LEU:HG	2.20	0.41
1:C:203:ARG:HE	1:D:363:HIS:CD2	2.39	0.41
1:C:465:ARG:NH2	1:C:466:TYR:CZ	2.89	0.41
1:C:611:LEU:HB3	1:C:769:ILE:CA	2.50	0.41
1:C:616:SER:O	1:C:618:SER:OG	2.38	0.41
1:C:658:THR:HG22	1:C:665:TYR:CE1	2.54	0.41
1:C:786:ILE:O	1:C:787:ARG:C	2.58	0.41
1:C:831:LEU:O	1:C:833:GLN:N	2.54	0.41
1:D:317:THR:HG1	1:D:321:TYR:N	2.18	0.41
1:D:348:THR:O	1:D:349:VAL:C	2.57	0.41
1:D:373:VAL:O	1:D:376:ALA:N	2.44	0.41
1:D:556:ILE:C	1:D:559:LYS:NZ	2.66	0.41
1:D:570:ILE:HG23	1:D:595:ARG:HH12	1.85	0.41
1:D:613:LEU:HD11	1:D:728:ALA:HA	2.03	0.41
1:D:656:LEU:O	1:D:667:GLU:HB3	2.21	0.41
1:D:777:ARG:HG3	1:D:778:LYS:N	2.36	0.41
1:D:791:ILE:CG2	1:D:795:PHE:HZ	2.27	0.41
1:D:799:ASP:CG	1:D:800:LYS:N	2.74	0.41
1:E:191:GLU:HG2	1:E:192:GLU:H	1.85	0.41
1:E:215:GLY:C	2:E:1001:AGS:O1B	2.58	0.41
1:E:344:SER:O	1:E:344:SER:OG	2.38	0.41
1:E:349:VAL:O	1:E:350:ALA:C	2.58	0.41
1:E:352:LEU:HD23	1:E:355:LEU:HD12	2.01	0.41
1:E:378:LEU:HG	1:E:381:ARG:HB3	2.03	0.41
1:E:583:GLN:O	1:E:586:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:603:ASN:HD21	1:F:794:ARG:CZ	2.34	0.41
1:E:632:PHE:HE1	1:E:680:TYR:HD2	1.68	0.41
1:E:806:LEU:HD13	1:E:809:GLU:CD	2.41	0.41
1:E:858:VAL:HB	1:E:877:LEU:CD1	2.48	0.41
1:E:876:CYS:SG	1:E:878:GLU:OE2	2.74	0.41
1:F:189:ARG:HH11	1:F:340:VAL:HB	1.84	0.41
1:F:319:ASN:CA	1:F:323:SER:OG	2.53	0.41
1:F:638:MET:HG3	1:F:674:GLN:HE22	1.85	0.41
1:F:674:GLN:O	1:F:677:TYR:HB2	2.20	0.41
1:F:858:VAL:CA	1:F:878:GLU:HA	2.42	0.41
1:A:218:LYS:CG	1:A:219:THR:H	2.20	0.41
1:A:246:LEU:HD22	1:A:281:LEU:HB3	2.01	0.41
1:A:607:PRO:HD2	1:A:703:LEU:O	2.21	0.41
1:A:698:VAL:O	1:A:702:MET:HG2	2.20	0.41
1:A:781:HIS:CD2	1:A:782:LYS:HG3	2.55	0.41
1:A:788:LEU:HD13	1:A:802:TYR:OH	2.21	0.41
1:B:170:TYR:CE1	1:B:251:LEU:HD23	2.55	0.41
1:B:247:ASP:C	1:B:249:ALA:N	2.74	0.41
1:B:324:ILE:O	1:B:325:VAL:C	2.58	0.41
1:B:362:HIS:CD2	1:B:363:HIS:CD2	3.05	0.41
1:B:393:LEU:CD2	1:B:397:ASP:HB2	2.51	0.41
1:B:553:LEU:HD12	1:B:553:LEU:HA	1.85	0.41
1:B:619:GLY:HA2	1:B:622:GLU:OE1	2.20	0.41
1:B:656:LEU:HB2	1:B:667:GLU:HB2	2.02	0.41
1:B:657:GLY:H	1:B:668:GLY:HA3	1.86	0.41
1:B:799:ASP:O	1:B:801:HIS:CE1	2.72	0.41
1:B:804:LEU:O	1:B:855:VAL:N	2.48	0.41
1:B:859:LEU:C	1:B:875:GLU:OE2	2.58	0.41
1:C:279:ILE:C	1:C:311:LYS:HD2	2.41	0.41
1:C:377:GLN:O	1:C:378:LEU:C	2.58	0.41
1:C:568:LYS:NZ	1:C:630:PHE:HA	2.34	0.41
1:C:713:GLY:C	1:C:714:LYS:NZ	2.74	0.41
1:C:803:LYS:NZ	1:C:855:VAL:HG13	2.35	0.41
1:C:814:LEU:HA	1:C:814:LEU:HD23	1.76	0.41
1:D:352:LEU:HA	1:D:355:LEU:CD2	2.49	0.41
1:D:380:LYS:C	1:D:382:TYR:N	2.72	0.41
1:D:460:GLU:O	1:D:464:GLN:HG3	2.21	0.41
1:D:623:LEU:O	1:D:624:ALA:C	2.59	0.41
1:D:785:ASP:HA	1:D:788:LEU:CD1	2.50	0.41
1:D:800:LYS:N	1:D:801:HIS:HD2	2.19	0.41
1:E:205:LYS:HZ3	1:E:334:ARG:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:277:THR:C	1:E:279:ILE:H	2.23	0.41
1:E:371:ALA:O	1:E:372:LEU:C	2.58	0.41
1:E:483:LEU:CD1	1:E:514:LYS:HG3	2.51	0.41
1:E:644:SER:CB	1:E:690:LYS:HE3	2.51	0.41
1:F:556:ILE:H	1:F:559:LYS:NZ	2.19	0.41
1:F:678:LYS:HZ3	1:F:681:SER:N	2.18	0.41
1:A:334:ARG:HD3	1:A:334:ARG:HA	1.51	0.41
1:A:374:THR:O	1:A:377:GLN:HB2	2.21	0.41
1:A:403:VAL:HG11	1:A:407:ARG:HH12	1.84	0.41
1:A:613:LEU:HB3	1:A:728:ALA:HA	2.03	0.41
1:A:655:LEU:HD12	1:A:671:LEU:HB3	2.03	0.41
1:A:708:ILE:H	1:A:717:ASP:HA	1.86	0.41
1:A:782:LYS:NZ	1:A:782:LYS:HB2	2.34	0.41
1:B:262:GLU:C	1:B:262:GLU:CD	2.79	0.41
1:B:296:ASP:O	1:B:297:ALA:C	2.58	0.41
1:B:345:VAL:O	1:B:349:VAL:HG23	2.21	0.41
1:B:759:ARG:HD3	1:B:759:ARG:HA	1.83	0.41
1:B:798:ASN:HB3	1:B:802:TYR:CE1	2.55	0.41
1:C:197:ILE:N	1:C:197:ILE:HD13	2.35	0.41
1:C:211:ILE:HD13	1:C:315:ALA:HA	2.03	0.41
1:C:235:PRO:HB2	1:C:238:LEU:HB2	2.03	0.41
1:C:259:GLY:HA3	1:C:262:GLU:OE1	2.20	0.41
1:D:259:GLY:O	1:D:263:GLU:HG3	2.20	0.41
1:D:365:VAL:HG11	1:D:540:VAL:HG11	2.01	0.41
1:D:371:ALA:O	1:D:374:THR:N	2.54	0.41
1:D:487:GLU:O	1:D:491:LEU:N	2.34	0.41
1:D:619:GLY:O	1:D:623:LEU:N	2.33	0.41
1:D:642:ASP:C	1:D:644:SER:H	2.23	0.41
1:D:650:TYR:CD2	1:D:650:TYR:O	2.73	0.41
1:D:729:LEU:HD22	1:D:754:VAL:CG2	2.51	0.41
1:D:777:ARG:N	1:D:780:ILE:HD12	2.35	0.41
1:D:792:GLU:HG2	1:D:801:HIS:HA	2.03	0.41
1:D:810:ALA:C	1:D:812:ASP:N	2.73	0.41
1:D:849:ILE:HG21	1:D:852:LYS:HG2	2.02	0.41
1:E:459:LEU:HG	1:E:463:ARG:NE	2.36	0.41
1:E:613:LEU:N	1:E:771:ILE:HG23	2.36	0.41
1:E:674:GLN:O	1:E:675:LEU:C	2.59	0.41
1:F:286:ILE:CD1	1:F:322:ARG:HG3	2.24	0.41
1:F:335:PHE:N	1:F:335:PHE:CD1	2.85	0.41
1:F:556:ILE:CG1	1:F:559:LYS:HG3	2.50	0.41
1:F:687:GLU:CG	1:F:728:ALA:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:808:GLN:HA	1:F:811:LYS:HB2	2.02	0.41
1:A:263:GLU:O	1:A:267:GLY:HA3	2.20	0.41
1:A:625:LYS:NZ	1:A:638:MET:CG	2.84	0.41
1:A:812:ASP:O	1:A:813:PHE:C	2.59	0.41
1:B:184:ASP:CG	1:B:358:LYS:HZ2	2.24	0.41
1:B:332:GLU:C	1:B:335:PHE:H	2.24	0.41
1:B:349:VAL:HA	1:B:352:LEU:HD12	2.02	0.41
1:B:387:ARG:HD3	1:B:387:ARG:HA	1.76	0.41
1:B:403:VAL:HA	1:B:406:ALA:HB3	2.03	0.41
1:B:544:ASP:CG	1:B:545:THR:N	2.74	0.41
1:B:744:GLU:HG3	1:B:748:ASN:HD21	1.86	0.41
1:C:240:GLY:H	1:C:278:LEU:HD12	1.86	0.41
1:C:659:THR:CG2	1:C:712:GLN:HA	2.51	0.41
1:C:692:HIS:HB3	1:C:695:VAL:CG2	2.51	0.41
1:C:839:LYS:HZ2	1:C:881:PRO:HD3	1.85	0.41
1:C:859:LEU:HG	1:C:876:CYS:SG	2.61	0.41
1:D:191:GLU:HA	1:D:194:ARG:HB2	2.01	0.41
1:D:355:LEU:HD12	1:D:356:GLN:HA	2.01	0.41
1:D:356:GLN:HE22	1:D:367:ILE:H	1.68	0.41
1:D:378:LEU:HA	1:D:378:LEU:HD23	1.88	0.41
1:D:571:HIS:O	1:D:574:ARG:N	2.54	0.41
1:D:596:LEU:HG	1:E:838:ASN:OD1	2.21	0.41
1:D:655:LEU:HD23	1:D:656:LEU:HA	2.02	0.41
1:D:655:LEU:HD23	1:D:667:GLU:O	2.21	0.41
1:D:656:LEU:HG	1:D:710:SER:CA	2.51	0.41
1:E:174:MET:C	1:E:176:GLU:N	2.74	0.41
1:E:216:ILE:HG21	1:E:387:ARG:CZ	2.50	0.41
1:E:241:ALA:CA	1:E:278:LEU:HB3	2.50	0.41
1:E:351:ILE:C	1:E:355:LEU:HG	2.41	0.41
1:E:643:CYS:N	1:E:649:LYS:NZ	2.66	0.41
1:E:687:GLU:OE2	1:E:728:ALA:O	2.39	0.41
1:E:696:LEU:HA	1:E:699:MET:CG	2.46	0.41
1:E:752:GLY:HA2	1:E:755:ARG:CG	2.50	0.41
1:E:785:ASP:CG	1:E:789:LYS:HZ2	2.23	0.41
1:E:796:GLU:HB3	1:E:797:GLN:H	1.73	0.41
1:E:803:LYS:NZ	1:E:854:THR:CG2	2.84	0.41
1:F:192:GLU:CG	1:F:338:ILE:HG22	2.51	0.41
1:F:351:ILE:C	1:F:355:LEU:HD13	2.41	0.41
1:F:583:GLN:HB2	1:F:586:ALA:HB2	2.03	0.41
1:F:627:VAL:O	1:F:631:LEU:HG	2.21	0.41
1:F:687:GLU:HB3	1:F:728:ALA:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:789:LYS:HA	1:F:792:GLU:CD	2.41	0.41
1:F:833:GLN:CG	1:F:834:ASN:N	2.83	0.41
1:A:216:ILE:O	1:A:219:THR:N	2.53	0.41
1:A:243:LEU:HD12	1:A:244:PHE:N	2.36	0.41
1:A:299:ASN:CG	1:A:300:ILE:HD12	2.40	0.41
1:A:316:THR:HG23	1:A:317:THR:O	2.21	0.41
1:A:351:ILE:HD13	1:A:389:PRO:HA	2.03	0.41
1:A:355:LEU:N	1:A:360:GLU:OE2	2.54	0.41
1:A:368:LEU:HD23	1:A:539:ASN:ND2	2.36	0.41
1:A:571:HIS:HD2	1:A:574:ARG:CD	2.32	0.41
1:A:621:THR:HB	1:A:684:LEU:HD22	2.03	0.41
1:A:675:LEU:CD1	1:A:716:ILE:HG13	2.51	0.41
1:A:682:VAL:CG1	1:A:683:LEU:N	2.84	0.41
1:A:780:ILE:CA	1:A:783:ILE:HB	2.40	0.41
1:B:175:THR:H	1:B:175:THR:HG23	1.53	0.41
1:B:207:ASN:CG	1:B:335:PHE:HA	2.41	0.41
1:B:285:GLU:CD	1:B:287:HIS:CE1	2.94	0.41
1:B:333:ARG:NH1	1:B:334:ARG:HG3	2.36	0.41
1:B:391:SER:O	1:B:392:ALA:C	2.59	0.41
1:B:393:LEU:HG	1:B:397:ASP:HB2	2.03	0.41
1:B:583:GLN:CG	1:B:772:PHE:HA	2.51	0.41
1:B:612:PHE:HD1	1:B:770:VAL:HG12	1.86	0.41
1:B:617:GLY:C	1:B:826:ARG:NH1	2.75	0.41
1:B:637:MET:O	1:B:639:ILE:HG13	2.21	0.41
1:B:683:LEU:H	1:B:723:VAL:CG1	2.33	0.41
1:B:685:PHE:CE2	1:B:687:GLU:OE2	2.73	0.41
1:B:697:THR:O	1:B:701:GLN:HG3	2.21	0.41
1:B:705:ASP:O	1:B:719:SER:HB3	2.21	0.41
1:B:740:SER:OG	1:B:773:ASN:HB2	2.21	0.41
1:B:746:THR:HA	1:B:749:LEU:HB2	2.03	0.41
1:B:762:PHE:O	1:B:765:ARG:N	2.54	0.41
1:B:808:GLN:NE2	1:B:808:GLN:O	2.54	0.41
1:C:169:LYS:NZ	1:C:264:ARG:CD	2.69	0.41
1:C:170:TYR:HE2	1:C:250:ALA:N	2.05	0.41
1:C:175:THR:HA	1:C:230:ILE:CD1	2.51	0.41
1:C:175:THR:O	1:C:179:ARG:HB2	2.20	0.41
1:C:191:GLU:OE2	1:C:194:ARG:HB2	2.21	0.41
1:C:210:LEU:HB3	1:C:338:ILE:H	1.78	0.41
1:C:241:ALA:CB	1:C:280:VAL:HG23	2.51	0.41
1:C:262:GLU:HA	1:C:265:PHE:HB3	2.03	0.41
1:C:268:VAL:O	1:C:269:LEU:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:276:LYS:CB	1:C:279:ILE:HD12	2.48	0.41
1:C:385:TYR:CG	1:C:386:ARG:N	2.89	0.41
1:C:402:GLY:O	1:C:405:VAL:HB	2.21	0.41
1:C:599:SER:CB	1:C:602:ALA:H	2.33	0.41
1:C:634:ASP:HB2	1:C:636:ASP:OD1	2.20	0.41
1:C:685:PHE:O	1:C:688:VAL:N	2.45	0.41
1:C:700:LEU:O	1:C:701:GLN:C	2.59	0.41
1:C:757:HIS:C	1:C:758:PHE:CG	2.94	0.41
1:C:826:ARG:N	1:C:827:PRO:CD	2.84	0.41
1:C:839:LYS:NZ	1:C:881:PRO:CD	2.84	0.41
1:C:874:GLU:HB3	1:C:877:LEU:HD21	2.03	0.41
1:D:166:TYR:CE2	1:D:169:LYS:O	2.74	0.41
1:D:166:TYR:CZ	1:D:169:LYS:HB3	2.55	0.41
1:D:213:GLU:OE1	1:D:389:PRO:HD2	2.21	0.41
1:D:221:ILE:HD11	2:D:1001:AGS:H5'2	2.03	0.41
1:D:231:ASP:CB	1:D:495:ARG:HG3	2.47	0.41
1:D:337:LYS:HE3	1:D:339:GLU:OE2	2.20	0.41
1:D:417:LYS:O	1:D:420:GLN:N	2.53	0.41
1:D:585:ASP:HA	1:D:588:LYS:HZ3	1.85	0.41
1:D:643:CYS:SG	1:D:649:LYS:HD3	2.61	0.41
1:D:644:SER:CB	1:D:691:ALA:HA	2.41	0.41
1:D:779:ALA:CA	1:D:782:LYS:NZ	2.83	0.41
1:D:797:GLN:HG3	1:D:801:HIS:NE2	2.36	0.41
1:D:799:ASP:N	1:D:799:ASP:OD1	2.53	0.41
1:D:808:GLN:HA	1:D:811:LYS:HD3	2.01	0.41
1:E:174:MET:HG2	1:E:178:ALA:HB2	2.03	0.41
1:E:184:ASP:OD2	1:E:358:LYS:HD3	2.20	0.41
1:E:195:SER:O	1:E:199:VAL:N	2.38	0.41
1:E:207:ASN:ND2	1:E:312:VAL:O	2.53	0.41
1:E:216:ILE:HD11	1:E:389:PRO:CD	2.51	0.41
1:E:217:GLY:O	1:E:221:ILE:HG13	2.21	0.41
1:E:218:LYS:HA	1:E:221:ILE:HD12	2.03	0.41
1:E:346:ARG:HD2	1:E:347:GLN:NE2	2.36	0.41
1:E:356:GLN:CD	1:E:367:ILE:HD12	2.41	0.41
1:E:360:GLU:O	1:E:362:HIS:N	2.54	0.41
1:E:396:VAL:C	1:E:399:SER:HG	2.18	0.41
1:E:460:GLU:O	1:E:464:GLN:NE2	2.53	0.41
1:E:462:LEU:CD1	1:E:465:ARG:NH1	2.82	0.41
1:E:467:ASN:OD1	1:E:471:HIS:NE2	2.54	0.41
1:E:494:GLU:HA	1:E:501:THR:HG22	2.03	0.41
1:E:496:ARG:O	1:E:496:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:545:THR:O	1:E:548:GLU:HB2	2.21	0.41
1:E:580:VAL:HG23	1:E:581:VAL:N	2.36	0.41
1:E:607:PRO:CG	1:E:707:ARG:HH12	2.34	0.41
1:E:622:GLU:CA	1:E:625:LYS:HB2	2.49	0.41
1:E:709:THR:H	1:E:716:ILE:N	1.98	0.41
1:E:777:ARG:HA	1:E:780:ILE:CG2	2.46	0.41
1:E:787:ARG:HE	1:E:832:ILE:CD1	2.34	0.41
1:E:833:GLN:HA	1:E:836:ILE:CG2	2.48	0.41
1:F:174:MET:HE1	1:F:183:LEU:HB2	2.02	0.41
1:F:192:GLU:CD	1:F:338:ILE:HG22	2.41	0.41
1:F:195:SER:O	1:F:198:ARG:HB2	2.20	0.41
1:F:262:GLU:OE2	1:F:299:ASN:HA	2.20	0.41
1:F:265:PHE:HE2	1:F:299:ASN:HD22	1.68	0.41
1:F:301:LEU:HG	1:F:303:PRO:CD	2.48	0.41
1:F:381:ARG:CZ	1:F:565:GLU:OE2	2.67	0.41
1:F:389:PRO:O	1:F:390:ASP:C	2.59	0.41
1:F:395:LEU:HD22	1:F:545:THR:HG22	2.02	0.41
1:F:552:ARG:HG2	1:F:553:LEU:CD2	2.51	0.41
1:F:591:SER:O	1:F:595:ARG:CZ	2.65	0.41
1:F:618:SER:HB2	2:F:1002:AGS:C6	2.50	0.41
1:F:655:LEU:CA	1:F:668:GLY:HA3	2.46	0.41
1:F:787:ARG:O	1:F:790:GLU:HB2	2.21	0.41
1:F:840:LEU:O	1:F:841:ALA:C	2.59	0.41
1:A:228:ARG:HA	1:A:231:ASP:CG	2.41	0.41
1:A:344:SER:HB3	1:A:347:GLN:NE2	2.36	0.41
1:A:609:SER:CB	1:A:724:ILE:HG13	2.43	0.41
1:B:218:LYS:HZ2	1:B:218:LYS:HG3	1.61	0.41
1:B:226:ALA:O	1:B:230:ILE:HG23	2.21	0.41
1:B:263:GLU:C	1:B:266:LYS:HZ3	2.23	0.41
1:B:285:GLU:C	1:B:285:GLU:CD	2.80	0.41
1:B:286:ILE:O	1:B:289:LEU:N	2.53	0.41
1:B:372:LEU:HA	1:B:372:LEU:HD23	1.82	0.41
1:B:390:ASP:C	1:B:392:ALA:N	2.73	0.41
1:B:544:ASP:CA	1:B:560:LYS:HZ3	2.34	0.41
1:B:583:GLN:NE2	1:B:771:ILE:HG22	2.35	0.41
1:B:590:VAL:O	1:B:591:SER:C	2.58	0.41
1:B:641:VAL:N	1:B:684:LEU:HB3	2.29	0.41
1:B:645:GLU:HB3	1:B:692:HIS:CG	2.55	0.41
1:B:812:ASP:O	1:B:813:PHE:C	2.60	0.41
1:C:170:TYR:OH	1:C:249:ALA:CA	2.53	0.41
1:C:365:VAL:CG1	1:C:366:ARG:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:370:SER:N	1:C:372:LEU:HG	2.36	0.41
1:C:394:ASP:O	1:C:398:ILE:HB	2.20	0.41
1:C:407:ARG:CZ	1:C:539:ASN:O	2.68	0.41
1:C:420:GLN:HE21	1:C:455:LEU:CA	2.34	0.41
1:C:490:ALA:O	1:C:494:GLU:HG3	2.21	0.41
1:C:502:ALA:C	1:C:506:ARG:HD3	2.42	0.41
1:C:572:MET:HB3	1:C:630:PHE:CD2	2.56	0.41
1:C:607:PRO:HB2	1:C:722:ILE:CD1	2.48	0.41
1:C:675:LEU:HA	1:C:678:LYS:HB3	2.03	0.41
1:C:699:MET:HE3	1:C:699:MET:HB2	1.92	0.41
1:C:758:PHE:HB3	1:C:762:PHE:HD2	1.86	0.41
1:D:166:TYR:CB	1:D:264:ARG:HE	2.34	0.41
1:D:179:ARG:HD3	1:D:179:ARG:HA	1.85	0.41
1:D:244:PHE:O	1:D:282:PHE:HB3	2.21	0.41
1:D:317:THR:HG1	1:D:321:TYR:H	1.69	0.41
1:D:352:LEU:O	1:D:355:LEU:HG	2.21	0.41
1:D:397:ASP:O	1:D:398:ILE:C	2.59	0.41
1:D:473:HIS:HA	1:D:476:LEU:HB2	2.02	0.41
1:D:643:CYS:HA	1:D:645:GLU:OE1	2.21	0.41
1:D:698:VAL:O	1:D:701:GLN:OE1	2.38	0.41
1:D:753:ALA:O	1:D:754:VAL:C	2.58	0.41
1:D:804:LEU:HD11	1:D:880:LEU:HD13	2.03	0.41
1:D:830:ARG:HA	1:D:833:GLN:CD	2.41	0.41
1:E:228:ARG:HD2	1:E:231:ASP:CB	2.48	0.41
1:E:472:GLY:HA2	1:E:475:GLU:OE1	2.20	0.41
1:E:512:ASP:O	1:E:512:ASP:OD1	2.38	0.41
1:E:542:ASP:OD1	1:E:544:ASP:OD2	2.38	0.41
1:E:605:ARG:O	1:E:705:ASP:HA	2.21	0.41
1:E:616:SER:HA	2:E:1002:AGS:O1B	2.20	0.41
1:E:649:LYS:C	1:E:650:TYR:CG	2.94	0.41
1:E:692:HIS:CE1	1:E:694:ASP:HB2	2.55	0.41
1:E:777:ARG:HG3	1:E:777:ARG:NH1	2.36	0.41
1:F:166:TYR:HA	1:F:169:LYS:HZ1	1.85	0.41
1:F:175:THR:OG1	1:F:244:PHE:HZ	2.03	0.41
1:F:254:GLY:HA2	1:F:264:ARG:HD3	2.02	0.41
1:F:287:HIS:NE2	1:F:321:TYR:HD2	2.19	0.41
1:F:566:ASN:O	1:F:570:ILE:HG12	2.21	0.41
1:F:786:ILE:HG22	1:F:790:GLU:OE2	2.21	0.41
1:F:807:THR:HB	1:F:856:ASN:OD1	2.21	0.41
1:F:832:ILE:HG23	1:F:835:GLU:OE2	2.21	0.41
1:A:286:ILE:HD11	1:A:321:TYR:HD2	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:THR:HA	1:A:377:GLN:CD	2.42	0.40
1:A:611:LEU:HB2	1:A:724:ILE:CG2	2.50	0.40
1:A:674:GLN:O	1:A:677:TYR:HB2	2.21	0.40
1:A:822:ASP:CB	1:F:333:ARG:HH11	2.34	0.40
1:B:218:LYS:HZ1	1:B:219:THR:CG2	2.34	0.40
1:B:607:PRO:HA	1:B:722:ILE:CD1	2.51	0.40
1:B:719:SER:C	1:B:721:CYS:N	2.75	0.40
1:B:738:GLN:N	1:B:774:LYS:NZ	2.69	0.40
1:B:762:PHE:O	1:B:765:ARG:HB2	2.21	0.40
1:B:764:ASN:HD22	1:B:765:ARG:HH12	1.69	0.40
1:B:835:GLU:O	1:B:838:ASN:HB2	2.21	0.40
1:C:14:ILE:N	1:C:159:ASP:CA	2.82	0.40
1:C:208:PRO:CD	1:C:313:ILE:HA	2.50	0.40
1:C:285:GLU:HB3	1:C:288:MET:CE	2.50	0.40
1:C:356:GLN:CG	1:C:357:PRO:CD	3.00	0.40
1:C:410:LYS:HB2	1:C:536:MET:HE3	2.02	0.40
1:C:596:LEU:O	1:C:597:SER:C	2.58	0.40
1:C:631:LEU:HD12	1:C:631:LEU:N	2.36	0.40
1:C:658:THR:HB	1:C:664:GLY:O	2.21	0.40
1:C:699:MET:CG	1:C:700:LEU:N	2.84	0.40
1:C:731:ALA:HB1	1:C:734:ILE:HG22	2.03	0.40
1:C:780:ILE:HA	1:C:784:VAL:HG13	2.02	0.40
1:C:790:GLU:CG	1:C:794:ARG:HE	2.34	0.40
1:D:172:ILE:N	1:D:245:SER:O	2.54	0.40
1:D:203:ARG:CZ	1:E:363:HIS:CE1	3.04	0.40
1:D:207:ASN:HD21	1:D:311:LYS:CA	2.34	0.40
1:D:266:LYS:O	1:D:270:LYS:NZ	2.49	0.40
1:D:296:ASP:CG	1:D:300:ILE:HD12	2.41	0.40
1:D:380:LYS:NZ	1:D:381:ARG:HB3	2.35	0.40
1:D:509:ALA:HA	1:D:512:ASP:OD2	2.21	0.40
1:D:744:GLU:N	1:D:747:LYS:NZ	2.68	0.40
1:E:227:GLN:O	1:E:228:ARG:C	2.60	0.40
1:E:276:LYS:NZ	1:E:279:ILE:C	2.71	0.40
1:E:277:THR:O	1:E:279:ILE:N	2.54	0.40
1:E:321:TYR:HA	1:E:324:ILE:HB	2.03	0.40
1:E:384:PRO:HB3	1:E:680:TYR:HE1	1.87	0.40
1:E:644:SER:HB3	1:E:690:LYS:HE3	2.02	0.40
1:E:701:GLN:HB3	1:E:702:MET:HE2	2.01	0.40
1:E:787:ARG:CZ	1:E:829:ASN:HB3	2.50	0.40
1:F:205:LYS:HG3	1:F:334:ARG:C	2.41	0.40
1:F:248:LEU:HB3	1:F:249:ALA:H	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:287:HIS:NE2	1:F:321:TYR:CD2	2.89	0.40
1:F:389:PRO:C	1:F:393:LEU:HG	2.41	0.40
1:F:592:ASN:HA	1:F:595:ARG:NH1	2.36	0.40
1:F:733:PHE:CG	1:F:750:VAL:HG21	2.56	0.40
1:A:348:THR:O	1:A:351:ILE:N	2.52	0.40
1:A:692:HIS:HB3	1:A:694:ASP:HB2	2.02	0.40
1:A:693:PRO:HA	1:A:696:LEU:HD11	2.03	0.40
1:A:693:PRO:CA	1:A:696:LEU:HD11	2.52	0.40
1:A:709:THR:HG22	1:A:713:GLY:HA2	2.02	0.40
1:A:784:VAL:HG13	1:A:785:ASP:N	2.36	0.40
1:B:193:ILE:HG13	1:B:194:ARG:H	1.87	0.40
1:B:193:ILE:HD12	1:B:197:ILE:HG13	2.03	0.40
1:B:204:ILE:O	1:B:206:SER:N	2.54	0.40
1:B:212:GLY:O	1:B:317:THR:HA	2.21	0.40
1:B:391:SER:O	1:B:394:ASP:N	2.53	0.40
1:B:392:ALA:HA	1:B:395:LEU:HD12	2.04	0.40
1:B:587:ILE:CA	1:B:590:VAL:HB	2.43	0.40
1:B:609:SER:OG	1:B:765:ARG:O	2.28	0.40
1:B:675:LEU:CB	1:B:717:ASP:OD2	2.68	0.40
1:B:736:SER:CB	1:B:738:GLN:H	2.33	0.40
1:B:740:SER:HB3	1:B:773:ASN:HB2	2.02	0.40
1:B:766:ILE:N	1:C:830:ARG:HH22	2.18	0.40
1:B:858:VAL:HG12	1:B:859:LEU:O	2.22	0.40
1:C:189:ARG:CB	1:C:193:ILE:HG13	2.51	0.40
1:C:201:ALA:O	1:C:206:SER:OG	2.33	0.40
1:C:208:PRO:O	1:C:210:LEU:N	2.55	0.40
1:C:210:LEU:HD22	1:C:338:ILE:N	2.36	0.40
1:C:241:ALA:HA	1:C:279:ILE:HA	2.04	0.40
1:C:243:LEU:HD23	1:C:282:PHE:O	2.21	0.40
1:C:302:LYS:HZ3	1:C:306:SER:CA	2.26	0.40
1:C:355:LEU:HB3	1:C:358:LYS:HE3	2.03	0.40
1:C:383:LEU:HD23	1:C:383:LEU:HA	1.62	0.40
1:C:458:GLU:CA	1:C:461:PRO:HD2	2.50	0.40
1:C:557:PRO:HA	1:C:560:LYS:HB2	2.02	0.40
1:C:567:GLU:O	1:C:570:ILE:HB	2.21	0.40
1:C:610:PHE:CB	1:C:768:SER:HB3	2.51	0.40
1:C:679:PRO:O	1:C:721:CYS:HB2	2.20	0.40
1:C:747:LYS:HA	1:C:750:VAL:HG21	2.03	0.40
1:C:786:ILE:HA	1:C:789:LYS:HD2	2.02	0.40
1:D:12:LEU:C	1:D:16:THR:H	2.25	0.40
1:D:177:GLN:CA	1:D:180:GLN:HB2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:210:LEU:HG	1:D:339:GLU:N	2.37	0.40
1:D:218:LYS:HD3	1:D:221:ILE:HD13	2.02	0.40
1:D:218:LYS:C	1:D:222:ILE:HG12	2.41	0.40
1:D:243:LEU:HD11	1:D:313:ILE:HG12	2.01	0.40
1:D:317:THR:OG1	1:D:321:TYR:N	2.54	0.40
1:D:353:ARG:O	1:D:354:GLY:C	2.59	0.40
1:D:388:LEU:C	1:D:391:SER:HG	2.20	0.40
1:D:464:GLN:HB3	1:D:468:GLU:HB3	2.03	0.40
1:D:620:LYS:HG3	1:D:621:THR:HG23	2.03	0.40
1:D:639:ILE:N	1:D:640:ARG:NH1	2.69	0.40
1:D:733:PHE:O	1:D:736:SER:N	2.32	0.40
1:D:818:GLY:O	1:D:819:TYR:C	2.59	0.40
1:D:830:ARG:HA	1:D:833:GLN:CG	2.49	0.40
1:D:842:LEU:C	1:D:845:LEU:HB3	2.41	0.40
1:E:214:PRO:HD2	1:E:387:ARG:HD2	2.02	0.40
1:E:392:ALA:HA	1:E:395:LEU:HD12	2.02	0.40
1:E:429:LYS:NZ	1:E:432:GLU:CD	2.71	0.40
1:E:596:LEU:HD23	1:F:841:ALA:HB2	2.02	0.40
1:E:645:GLU:CD	1:E:649:LYS:HZ1	2.19	0.40
1:E:687:GLU:CD	1:E:728:ALA:HB3	2.41	0.40
1:E:730:GLY:HA3	1:E:734:ILE:HG12	2.03	0.40
1:E:802:TYR:HB3	1:E:852:LYS:C	2.41	0.40
1:E:833:GLN:O	1:E:834:ASN:C	2.60	0.40
1:F:176:GLU:CD	1:F:177:GLN:H	2.25	0.40
1:F:238:LEU:HD22	1:F:278:LEU:HB3	2.02	0.40
1:F:548:GLU:CD	1:F:552:ARG:NH1	2.71	0.40
1:F:564:SER:HB3	1:F:568:LYS:HD2	2.03	0.40
1:F:583:GLN:HB2	1:F:586:ALA:CB	2.51	0.40
1:F:673:ASN:O	1:F:676:GLN:N	2.53	0.40
1:A:278:LEU:CD1	1:A:309:GLN:HA	2.51	0.40
1:A:541:VAL:O	1:A:545:THR:OG1	2.27	0.40
1:A:625:LYS:HG2	1:A:638:MET:SD	2.62	0.40
1:A:705:ASP:OD2	1:A:707:ARG:CZ	2.66	0.40
1:B:247:ASP:N	1:B:283:ILE:HG12	2.36	0.40
1:B:260:ASP:HA	1:B:263:GLU:HB3	2.03	0.40
1:B:321:TYR:CD2	1:B:322:ARG:N	2.90	0.40
1:B:565:GLU:O	1:B:569:LEU:HG	2.22	0.40
1:B:583:GLN:HG2	1:B:773:ASN:OD1	2.21	0.40
1:B:608:ALA:HB1	1:B:610:PHE:CE1	2.56	0.40
1:B:630:PHE:CD1	1:B:630:PHE:N	2.89	0.40
1:B:633:ASN:CG	1:B:636:ASP:OD2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:GLU:CD	1:B:791:ILE:HG13	2.41	0.40
1:B:813:PHE:O	1:B:816:LYS:HB2	2.22	0.40
1:B:839:LYS:NZ	1:B:877:LEU:CD2	2.82	0.40
1:C:251:LEU:HD12	1:C:252:THR:N	2.31	0.40
1:C:490:ALA:O	1:C:493:ALA:N	2.54	0.40
1:C:599:SER:O	1:C:601:LEU:N	2.50	0.40
1:C:731:ALA:CA	1:C:734:ILE:HG22	2.51	0.40
1:C:773:ASN:OD1	1:C:773:ASN:C	2.59	0.40
1:C:809:GLU:O	1:C:812:ASP:HB2	2.21	0.40
1:C:813:PHE:HZ	1:C:877:LEU:HD23	1.86	0.40
1:D:241:ALA:HA	1:D:278:LEU:HA	2.03	0.40
1:D:351:ILE:HG12	2:D:1001:AGS:N1	2.37	0.40
1:D:355:LEU:HD12	1:D:356:GLN:CA	2.51	0.40
1:D:536:MET:H	1:D:538:GLN:H	1.69	0.40
1:D:672:THR:O	1:D:676:GLN:HG3	2.22	0.40
1:D:683:LEU:N	1:D:722:ILE:O	2.54	0.40
1:D:685:PHE:HB3	1:D:725:MET:CE	2.51	0.40
1:E:202:ARG:HH11	1:E:336:GLN:NE2	2.17	0.40
1:E:204:ILE:HG22	1:E:205:LYS:HG3	2.03	0.40
1:E:375:ALA:O	1:E:376:ALA:C	2.58	0.40
1:E:588:LYS:C	1:E:592:ASN:HD22	2.21	0.40
1:E:609:SER:C	1:E:610:PHE:CG	2.94	0.40
1:E:676:GLN:NE2	1:E:677:TYR:HB2	2.36	0.40
1:E:789:LYS:O	1:E:790:GLU:C	2.60	0.40
1:F:215:GLY:CA	2:F:1001:AGS:O1B	2.66	0.40
1:F:273:GLU:HG3	1:F:274:GLU:N	2.27	0.40
1:F:287:HIS:CE1	1:F:322:ARG:HD2	2.56	0.40
1:F:306:SER:HA	1:F:310:LEU:O	2.21	0.40
1:F:552:ARG:HH11	1:F:552:ARG:CB	2.34	0.40
1:F:584:MET:O	1:F:587:ILE:HB	2.21	0.40
1:F:819:TYR:OH	1:F:828:LEU:HB2	2.22	0.40
1:A:175:THR:OG1	1:A:243:LEU:HG	2.21	0.40
1:A:547:SER:O	1:A:550:ALA:HB3	2.21	0.40
1:A:579:GLU:CD	1:A:580:VAL:HG23	2.42	0.40
1:A:609:SER:C	1:A:767:SER:HG	2.24	0.40
1:A:629:GLY:H	1:A:635:GLU:HG2	1.87	0.40
1:A:678:LYS:O	1:A:681:SER:OG	2.25	0.40
1:A:814:LEU:O	1:A:817:TYR:HB2	2.21	0.40
1:B:166:TYR:HA	1:B:169:LYS:HZ3	1.86	0.40
1:B:195:SER:O	1:B:198:ARG:N	2.50	0.40
1:B:281:LEU:HA	1:B:313:ILE:HD12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLU:O	1:B:288:MET:HB3	2.21	0.40
1:B:353:ARG:NH1	1:B:369:ASP:O	2.55	0.40
1:B:388:LEU:HB3	1:B:389:PRO:HD3	2.03	0.40
1:B:758:PHE:CB	1:B:763:LEU:HD21	2.49	0.40
1:B:842:LEU:O	1:B:846:LYS:HG3	2.21	0.40
1:C:189:ARG:NH2	1:C:341:ALA:C	2.75	0.40
1:C:205:LYS:HZ1	1:C:333:ARG:CB	2.34	0.40
1:C:302:LYS:N	1:C:303:PRO:HD2	2.37	0.40
1:C:363:HIS:CG	1:C:400:CYS:HB3	2.56	0.40
1:C:419:ARG:HG3	1:C:423:LEU:CD1	2.52	0.40
1:C:476:LEU:O	1:C:480:LYS:HG3	2.21	0.40
1:C:568:LYS:HZ3	1:C:630:PHE:HA	1.86	0.40
1:C:611:LEU:HB2	1:C:612:PHE:O	2.22	0.40
1:C:619:GLY:CA	1:C:622:GLU:HG2	2.50	0.40
1:C:652:VAL:O	1:C:655:LEU:O	2.40	0.40
1:C:659:THR:HG23	1:C:712:GLN:OE1	2.22	0.40
1:C:697:THR:O	1:C:698:VAL:C	2.59	0.40
1:C:792:GLU:O	1:C:802:TYR:CE1	2.75	0.40
1:D:229:ILE:O	1:D:232:ASP:HA	2.21	0.40
1:D:252:THR:HA	1:D:261:PHE:CE1	2.56	0.40
1:D:276:LYS:HB3	1:D:279:ILE:HD12	2.03	0.40
1:D:457:GLU:O	1:D:460:GLU:N	2.46	0.40
1:D:473:HIS:O	1:D:476:LEU:HB2	2.22	0.40
1:D:692:HIS:HA	1:D:693:PRO:HD3	1.96	0.40
1:D:696:LEU:HA	1:D:696:LEU:HD23	1.75	0.40
1:D:751:MET:HG3	1:D:769:ILE:HD11	2.04	0.40
1:D:759:ARG:HE	1:D:763:LEU:HD11	1.86	0.40
1:E:383:LEU:HD22	1:E:386:ARG:CG	2.52	0.40
1:E:471:HIS:O	1:E:474:GLU:N	2.53	0.40
1:E:492:ASP:O	1:E:495:ARG:N	2.53	0.40
1:E:611:LEU:HD13	1:E:725:MET:HG3	2.03	0.40
1:E:649:LYS:HG2	1:E:650:TYR:H	1.86	0.40
1:E:723:VAL:HG22	1:E:724:ILE:O	2.20	0.40
1:E:783:ILE:O	1:E:786:ILE:HD12	2.22	0.40
1:F:166:TYR:CG	1:F:264:ARG:NH1	2.89	0.40
1:F:363:HIS:CE1	1:F:397:ASP:CG	2.76	0.40
1:F:654:LYS:HG2	1:F:692:HIS:CD2	2.57	0.40
1:F:818:GLY:HA3	1:F:828:LEU:CG	2.51	0.40
1:A:357:PRO:CA	1:A:360:GLU:HB3	2.46	0.40
1:A:580:VAL:CG1	1:A:581:VAL:N	2.84	0.40
1:A:628:ALA:C	1:A:630:PHE:N	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:657:GLY:HA3	1:A:668:GLY:CA	2.52	0.40
1:B:169:LYS:NZ	1:B:170:TYR:HE2	2.20	0.40
1:B:190:GLU:O	1:B:191:GLU:C	2.60	0.40
1:B:207:ASN:O	1:B:336:GLN:O	2.39	0.40
1:B:305:LEU:H	1:B:305:LEU:HG	1.66	0.40
1:B:320:GLU:O	1:B:323:SER:HB2	2.22	0.40
1:B:323:SER:HB3	1:B:327:LYS:HZ2	1.86	0.40
1:B:346:ARG:N	1:B:347:GLN:OE1	2.55	0.40
1:B:394:ASP:N	1:B:394:ASP:OD1	2.55	0.40
1:B:615:LEU:HB2	1:B:772:PHE:CE2	2.57	0.40
1:B:673:ASN:CA	1:B:676:GLN:HB3	2.51	0.40
1:B:786:ILE:O	1:B:788:LEU:N	2.55	0.40
1:B:788:LEU:HB2	1:B:789:LYS:H	1.72	0.40
1:B:789:LYS:CG	1:B:790:GLU:N	2.84	0.40
1:C:167:LEU:C	1:C:167:LEU:CD1	2.85	0.40
1:C:211:ILE:HG21	1:C:315:ALA:CA	2.44	0.40
1:C:286:ILE:HA	1:C:289:LEU:CG	2.51	0.40
1:C:328:ASP:CG	1:C:329:GLY:H	2.25	0.40
1:C:373:VAL:HA	1:C:376:ALA:HB3	2.02	0.40
1:C:421:LEU:HD13	1:C:456:GLN:HG2	2.03	0.40
1:C:466:TYR:HE1	1:C:530:ARG:NH2	2.19	0.40
1:C:467:ASN:O	1:C:471:HIS:CD2	2.75	0.40
1:C:496:ARG:O	1:C:497:TYR:HB3	2.22	0.40
1:C:573:GLU:HA	1:C:576:LEU:HD12	2.03	0.40
1:C:765:ARG:HA	1:C:765:ARG:HD3	1.81	0.40
1:C:785:ASP:CG	1:C:811:LYS:HZ2	2.25	0.40
1:C:793:GLU:O	1:C:802:TYR:CE2	2.74	0.40
1:C:800:LYS:HA	1:C:850:LYS:HZ3	1.87	0.40
1:C:853:GLU:OE1	1:C:853:GLU:N	2.55	0.40
1:D:202:ARG:CZ	1:D:205:LYS:O	2.70	0.40
1:D:276:LYS:CB	1:D:279:ILE:HD12	2.51	0.40
1:D:330:ALA:HA	1:D:333:ARG:CD	2.51	0.40
1:D:338:ILE:CG2	1:D:339:GLU:N	2.83	0.40
1:D:414:LEU:O	1:D:415:ASP:C	2.59	0.40
1:D:468:GLU:C	1:D:471:HIS:HB3	2.42	0.40
1:D:559:LYS:O	1:D:562:SER:HB2	2.21	0.40
1:D:587:ILE:O	1:D:590:VAL:N	2.55	0.40
1:D:651:ALA:HA	1:D:654:LYS:HG2	2.04	0.40
1:D:682:VAL:HG22	1:D:722:ILE:CB	2.35	0.40
1:D:693:PRO:O	1:D:696:LEU:N	2.55	0.40
1:D:802:TYR:HE2	1:D:804:LEU:CB	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:805:ASN:HA	1:D:856:ASN:CB	2.51	0.40
1:D:805:ASN:HD21	1:D:880:LEU:HD11	1.87	0.40
1:E:172:ILE:C	1:E:245:SER:H	2.25	0.40
1:E:174:MET:HG2	1:E:178:ALA:N	2.37	0.40
1:E:218:LYS:HB2	2:E:1001:AGS:O3B	2.21	0.40
1:E:471:HIS:HA	1:E:474:GLU:OE1	2.22	0.40
1:E:522:ASP:OD1	1:E:526:GLU:OE2	2.39	0.40
1:E:570:ILE:HG22	1:F:845:LEU:HD22	2.02	0.40
1:E:571:HIS:HD2	1:E:574:ARG:CD	2.33	0.40
1:E:609:SER:HA	1:E:724:ILE:HA	2.03	0.40
1:E:624:ALA:O	1:E:628:ALA:N	2.41	0.40
1:E:784:VAL:HG11	1:E:815:ALA:CB	2.49	0.40
1:E:845:LEU:HD12	1:E:846:LYS:HB3	2.04	0.40
1:F:189:ARG:HH22	1:F:343:PRO:HA	1.86	0.40
1:F:199:VAL:HG11	1:F:207:ASN:OD1	2.20	0.40
1:F:280:VAL:HG13	1:F:311:LYS:O	2.21	0.40
1:F:356:GLN:O	1:F:360:GLU:HB3	2.21	0.40
1:F:392:ALA:HA	1:F:395:LEU:HD12	2.03	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	571/908 (63%)	408 (72%)	141 (25%)	22 (4%)	3	23
1	B	731/908 (80%)	492 (67%)	204 (28%)	35 (5%)	2	21
1	C	861/908 (95%)	591 (69%)	220 (26%)	50 (6%)	1	18
1	D	861/908 (95%)	584 (68%)	246 (29%)	31 (4%)	3	25
1	E	701/908 (77%)	496 (71%)	170 (24%)	35 (5%)	2	20
1	F	568/908 (63%)	426 (75%)	112 (20%)	30 (5%)	2	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	4293/5448 (79%)	2997 (70%)	1093 (26%)	203 (5%)	4 21

All (203) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	367	ILE
1	B	137	ILE
1	C	159	ASP
1	C	161	ASN
1	C	163	PRO
1	C	169	LYS
1	C	209	CYS
1	C	537	ILE
1	C	688	VAL
1	D	317	THR
1	D	643	CYS
1	E	174	MET
1	F	319	ASN
1	F	356	GLN
1	F	703	LEU
1	F	714	LYS
1	F	716	ILE
1	F	849	ILE
1	A	201	ALA
1	B	47	SER
1	C	211	ILE
1	C	627	VAL
1	C	754	VAL
1	D	111	ILE
1	D	126	ILE
1	D	135	VAL
1	D	211	ILE
1	D	558	VAL
1	D	703	LEU
1	D	742	ILE
1	D	784	VAL
1	D	879	VAL
1	E	175	THR
1	E	216	ILE
1	E	688	VAL
1	E	879	VAL
1	F	357	PRO

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Mol	Chain	Res	Type
1	F	879	VAL
1	A	204	ILE
1	A	227	GLN
1	A	357	PRO
1	A	697	THR
1	A	794	ARG
1	B	208	PRO
1	B	292	ASN
1	B	667	GLU
1	B	676	GLN
1	B	754	VAL
1	B	788	LEU
1	B	799	ASP
1	C	40	ILE
1	C	140	ILE
1	C	792	GLU
1	D	77	PRO
1	D	86	ILE
1	D	170	TYR
1	D	797	GLN
1	E	583	GLN
1	E	649	LYS
1	E	725	MET
1	E	809	GLU
1	F	365	VAL
1	F	564	SER
1	F	670	PHE
1	F	715	THR
1	A	352	LEU
1	A	355	LEU
1	A	647	SER
1	A	675	LEU
1	A	790	GLU
1	B	40	ILE
1	B	220	ALA
1	B	286	ILE
1	B	316	THR
1	B	318	ASN
1	B	345	VAL
1	B	632	PHE
1	B	742	ILE
1	B	876	CYS

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Mol	Chain	Res	Type
1	C	52	GLN
1	C	204	ILE
1	C	394	ASP
1	C	777	ARG
1	C	814	LEU
1	C	875	GLU
1	D	204	ILE
1	D	345	VAL
1	D	527	GLU
1	D	566	ASN
1	D	597	SER
1	D	755	ARG
1	D	781	HIS
1	E	252	THR
1	E	331	PHE
1	E	362	HIS
1	E	501	THR
1	E	656	LEU
1	E	700	LEU
1	E	724	ILE
1	F	701	GLN
1	A	231	ASP
1	A	265	PHE
1	A	799	ASP
1	A	849	ILE
1	B	86	ILE
1	B	221	ILE
1	B	321	TYR
1	B	756	GLN
1	B	784	VAL
1	B	786	ILE
1	C	135	VAL
1	C	153	ILE
1	C	154	ASP
1	C	175	THR
1	C	219	THR
1	C	227	GLN
1	C	261	PHE
1	C	756	GLN
1	C	797	GLN
1	C	810	ALA
1	C	812	ASP

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Mol	Chain	Res	Type
1	C	816	LYS
1	D	399	SER
1	D	749	LEU
1	E	297	ALA
1	E	330	ALA
1	E	346	ARG
1	E	397	ASP
1	E	404	ALA
1	E	697	THR
1	E	779	ALA
1	E	853	GLU
1	F	822	ASP
1	F	878	GLU
1	B	84	ALA
1	B	175	THR
1	B	269	LEU
1	B	395	LEU
1	B	546	ILE
1	B	745	SER
1	C	13	THR
1	C	42	THR
1	C	125	SER
1	C	190	GLU
1	C	283	ILE
1	C	405	VAL
1	C	674	GLN
1	C	687	GLU
1	D	261	PHE
1	D	845	LEU
1	E	275	SER
1	E	517	ILE
1	E	695	VAL
1	E	734	ILE
1	E	837	LEU
1	F	303	PRO
1	F	351	ILE
1	F	631	LEU
1	F	807	THR
1	F	880	LEU
1	A	207	ASN
1	B	556	ILE
1	C	31	GLN

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Mol	Chain	Res	Type
1	D	48	VAL
1	D	405	VAL
1	E	373	VAL
1	E	587	ILE
1	F	682	VAL
1	A	225	VAL
1	A	345	VAL
1	A	836	ILE
1	B	87	THR
1	C	213	GLU
1	C	396	VAL
1	C	428	ILE
1	C	581	VAL
1	C	770	VAL
1	E	229	ILE
1	F	345	VAL
1	F	396	VAL
1	F	759	ARG
1	F	766	ILE
1	B	384	PRO
1	C	27	HIS
1	C	35	ILE
1	C	590	VAL
1	C	879	VAL
1	D	237	ILE
1	D	410	LYS
1	E	537	ILE
1	E	652	VAL
1	F	581	VAL
1	A	693	PRO
1	B	879	VAL
1	D	49	PRO
1	E	556	ILE
1	F	221	ILE
1	F	367	ILE
1	F	713	GLY
1	A	759	ARG
1	B	48	VAL
1	C	55	ILE
1	F	594	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	484/782 (62%)	483 (100%)	1 (0%)	93	96
1	B	493/782 (63%)	490 (99%)	3 (1%)	86	92
1	C	599/782 (77%)	593 (99%)	6 (1%)	76	86
1	D	599/782 (77%)	595 (99%)	4 (1%)	84	90
1	E	595/782 (76%)	593 (100%)	2 (0%)	92	95
1	F	490/782 (63%)	475 (97%)	15 (3%)	40	62
All	All	3260/4692 (70%)	3229 (99%)	31 (1%)	77	86

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	655	LEU
1	B	173	ASP
1	B	238	LEU
1	B	671	LEU
1	C	169	LYS
1	C	170	TYR
1	C	281	LEU
1	C	544	ASP
1	C	764	ASN
1	C	837	LEU
1	D	301	LEU
1	D	585	ASP
1	D	640	ARG
1	D	812	ASP
1	E	544	ASP
1	E	575	ASP
1	F	319	ASN
1	F	320	GLU
1	F	322	ARG
1	F	356	GLN
1	F	358	LYS
1	F	360	GLU

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Mol	Chain	Res	Type
1	F	361	ILE
1	F	362	HIS
1	F	365	VAL
1	F	407	ARG
1	F	683	LEU
1	F	703	LEU
1	F	705	ASP
1	F	709	THR
1	F	712	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (67) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	177	GLN
1	A	571	HIS
1	A	583	GLN
1	A	606	GLN
1	A	673	ASN
1	A	738	GLN
1	A	808	GLN
1	B	177	GLN
1	B	336	GLN
1	B	347	GLN
1	B	356	GLN
1	B	362	HIS
1	B	583	GLN
1	B	743	GLN
1	B	808	GLN
1	B	856	ASN
1	C	319	ASN
1	C	362	HIS
1	C	363	HIS
1	C	456	GLN
1	C	473	HIS
1	C	488	ASN
1	C	516	GLN
1	C	583	GLN
1	C	633	ASN
1	C	673	ASN
1	C	781	HIS
1	C	833	GLN
1	C	882	ASN

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Mol	Chain	Res	Type
1	D	177	GLN
1	D	319	ASN
1	D	336	GLN
1	D	356	GLN
1	D	362	HIS
1	D	363	HIS
1	D	471	HIS
1	D	534	ASN
1	D	674	GLN
1	D	712	GLN
1	D	748	ASN
1	D	797	GLN
1	D	801	HIS
1	D	838	ASN
1	E	292	ASN
1	E	336	GLN
1	E	362	HIS
1	E	363	HIS
1	E	425	GLN
1	E	534	ASN
1	E	571	HIS
1	E	592	ASN
1	E	701	GLN
1	E	748	ASN
1	E	882	ASN
1	F	177	GLN
1	F	207	ASN
1	F	292	ASN
1	F	309	GLN
1	F	571	HIS
1	F	583	GLN
1	F	592	ASN
1	F	603	ASN
1	F	674	GLN
1	F	720	ASN
1	F	773	ASN
1	F	797	GLN
1	F	834	ASN

5.3.3 RNA ⓘ

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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
2	AGS	E	1001	-	26,33,33	0.88	1 (3%)	26,52,52	2.01	2 (7%)
2	AGS	D	1001	-	26,33,33	1.05	2 (7%)	26,52,52	1.34	2 (7%)
2	AGS	F	1001	-	26,33,33	0.78	0	26,52,52	1.29	1 (3%)
2	AGS	C	1001	-	26,33,33	0.88	1 (3%)	26,52,52	2.33	4 (15%)
2	AGS	F	1002	-	26,33,33	0.87	2 (7%)	26,52,52	1.25	2 (7%)
2	AGS	E	1002	-	26,33,33	0.90	1 (3%)	26,52,52	1.53	2 (7%)

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
2	AGS	E	1001	-	-	4/17/38/38	0/3/3/3
2	AGS	D	1001	-	-	8/17/38/38	0/3/3/3
2	AGS	F	1001	-	-	7/17/38/38	0/3/3/3
2	AGS	C	1001	-	-	4/17/38/38	0/3/3/3
2	AGS	F	1002	-	-	5/17/38/38	0/3/3/3
2	AGS	E	1002	-	-	6/17/38/38	0/3/3/3

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	1001	AGS	C4-N3	-2.52	1.32	1.35
2	F	1002	AGS	C8-N7	-2.40	1.30	1.34
2	E	1002	AGS	C8-N7	-2.38	1.30	1.34
2	C	1001	AGS	PB-O2B	-2.19	1.45	1.55
2	D	1001	AGS	PA-O2A	-2.18	1.45	1.55
2	F	1002	AGS	PG-S1G	2.15	1.95	1.90
2	E	1001	AGS	C8-N7	-2.03	1.31	1.34

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1001	AGS	PA-O3A-PB	-10.20	97.83	132.83
2	E	1001	AGS	PA-O3A-PB	-9.19	101.31	132.83
2	E	1002	AGS	PA-O3A-PB	-6.17	111.64	132.83
2	D	1001	AGS	PA-O3A-PB	-5.11	115.31	132.83
2	F	1001	AGS	PA-O3A-PB	-4.88	116.08	132.83
2	F	1002	AGS	PA-O3A-PB	-4.37	117.84	132.83
2	D	1001	AGS	C4-C5-N7	3.18	112.71	109.40
2	C	1001	AGS	O2G-PG-O3B	2.91	114.36	104.64
2	E	1002	AGS	C5-C6-N6	2.73	124.50	120.35
2	F	1002	AGS	C5-C6-N6	2.50	124.15	120.35
2	C	1001	AGS	C4-C5-N7	2.41	111.91	109.40
2	E	1001	AGS	C5-C6-N6	2.25	123.78	120.35
2	C	1001	AGS	C5-C6-N6	2.21	123.70	120.35

There are no chirality outliers.

All (34) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	1001	AGS	C4'-C5'-O5'-PA
2	D	1001	AGS	C5'-O5'-PA-O1A
2	D	1001	AGS	C5'-O5'-PA-O2A
2	D	1001	AGS	C3'-C4'-C5'-O5'
2	E	1001	AGS	C5'-O5'-PA-O1A
2	E	1001	AGS	C5'-O5'-PA-O2A
2	E	1002	AGS	O4'-C4'-C5'-O5'
2	E	1002	AGS	C3'-C4'-C5'-O5'
2	F	1001	AGS	C5'-O5'-PA-O1A
2	F	1001	AGS	C5'-O5'-PA-O2A
2	F	1001	AGS	C4'-C5'-O5'-PA
2	F	1002	AGS	PB-O3B-PG-O2G

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Mol	Chain	Res	Type	Atoms
2	F	1002	AGS	PB-O3B-PG-O3G
2	F	1002	AGS	C5'-O5'-PA-O1A
2	F	1002	AGS	C4'-C5'-O5'-PA
2	D	1001	AGS	O4'-C4'-C5'-O5'
2	E	1002	AGS	C4'-C5'-O5'-PA
2	F	1001	AGS	PA-O3A-PB-O1B
2	E	1001	AGS	C4'-C5'-O5'-PA
2	D	1001	AGS	C5'-O5'-PA-O3A
2	F	1002	AGS	C3'-C4'-C5'-O5'
2	D	1001	AGS	C4'-C5'-O5'-PA
2	F	1001	AGS	PB-O3A-PA-O2A
2	D	1001	AGS	PG-O3B-PB-O2B
2	E	1002	AGS	PB-O3B-PG-O2G
2	C	1001	AGS	PA-O3A-PB-O1B
2	E	1002	AGS	PA-O3A-PB-O3B
2	D	1001	AGS	PG-O3B-PB-O1B
2	E	1001	AGS	C5'-O5'-PA-O3A
2	F	1001	AGS	C5'-O5'-PA-O3A
2	F	1001	AGS	O4'-C4'-C5'-O5'
2	E	1002	AGS	PA-O3A-PB-O1B
2	C	1001	AGS	C5'-O5'-PA-O1A
2	C	1001	AGS	O4'-C4'-C5'-O5'

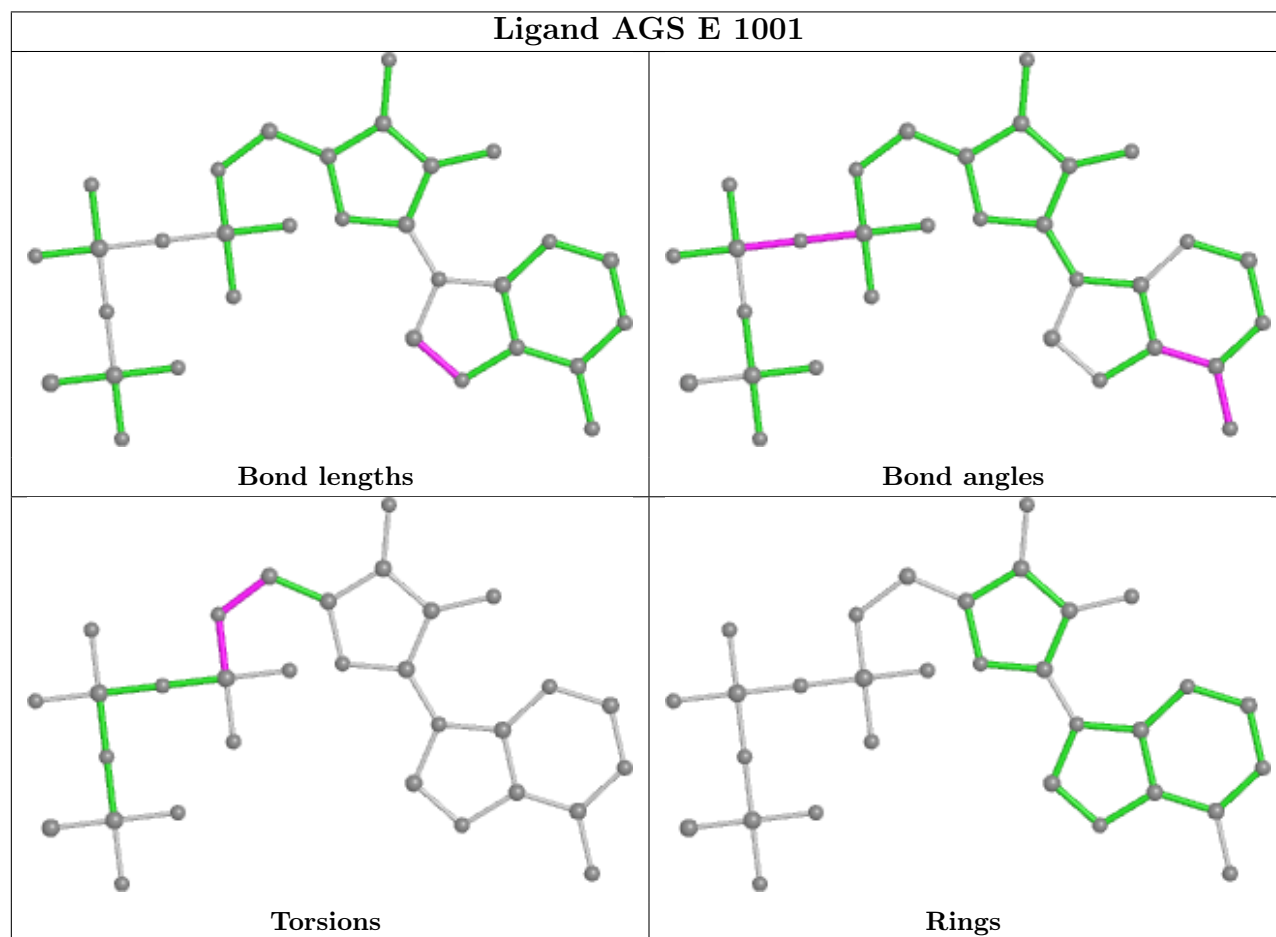
There are no ring outliers.

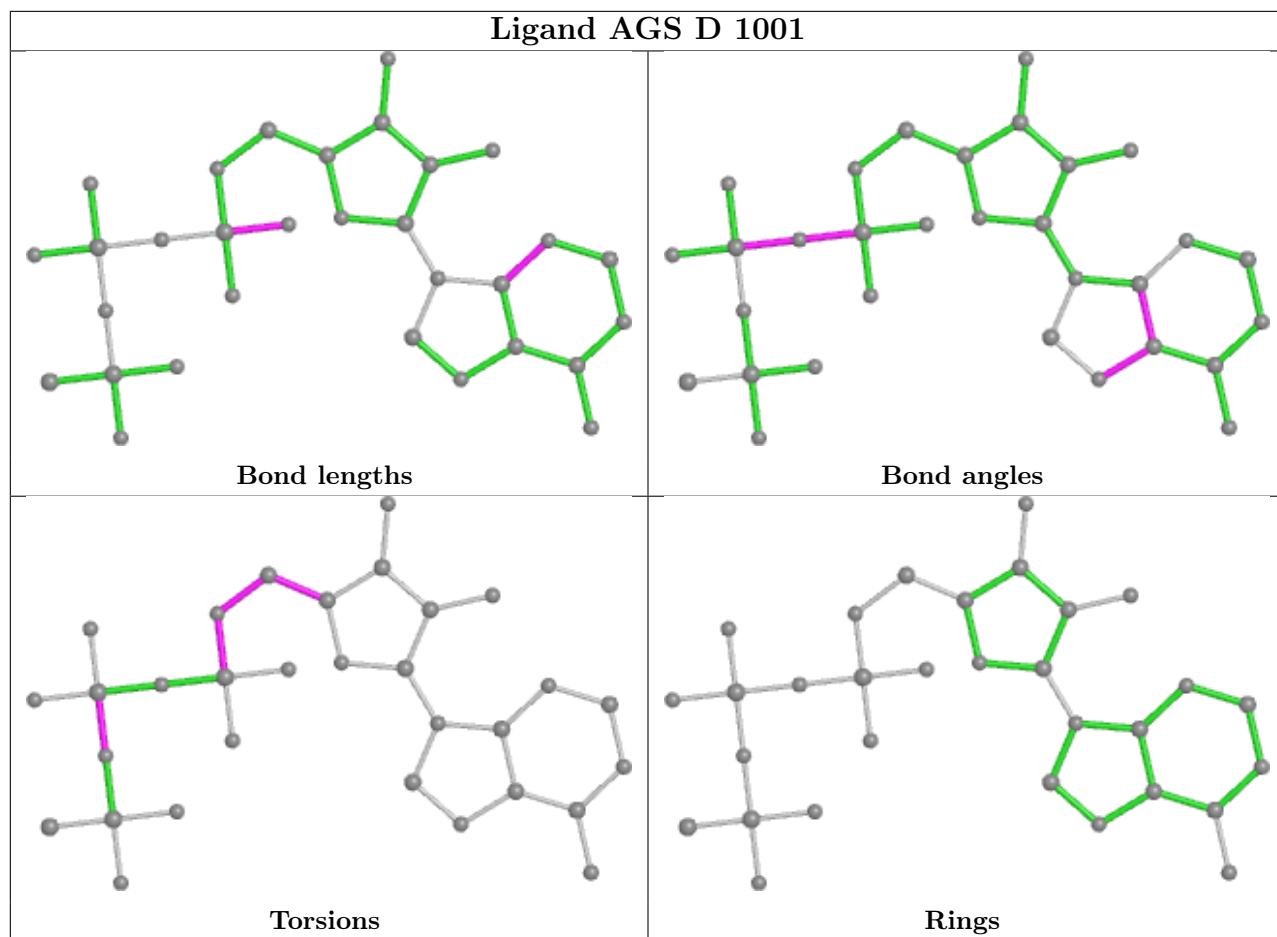
6 monomers are involved in 169 short contacts:

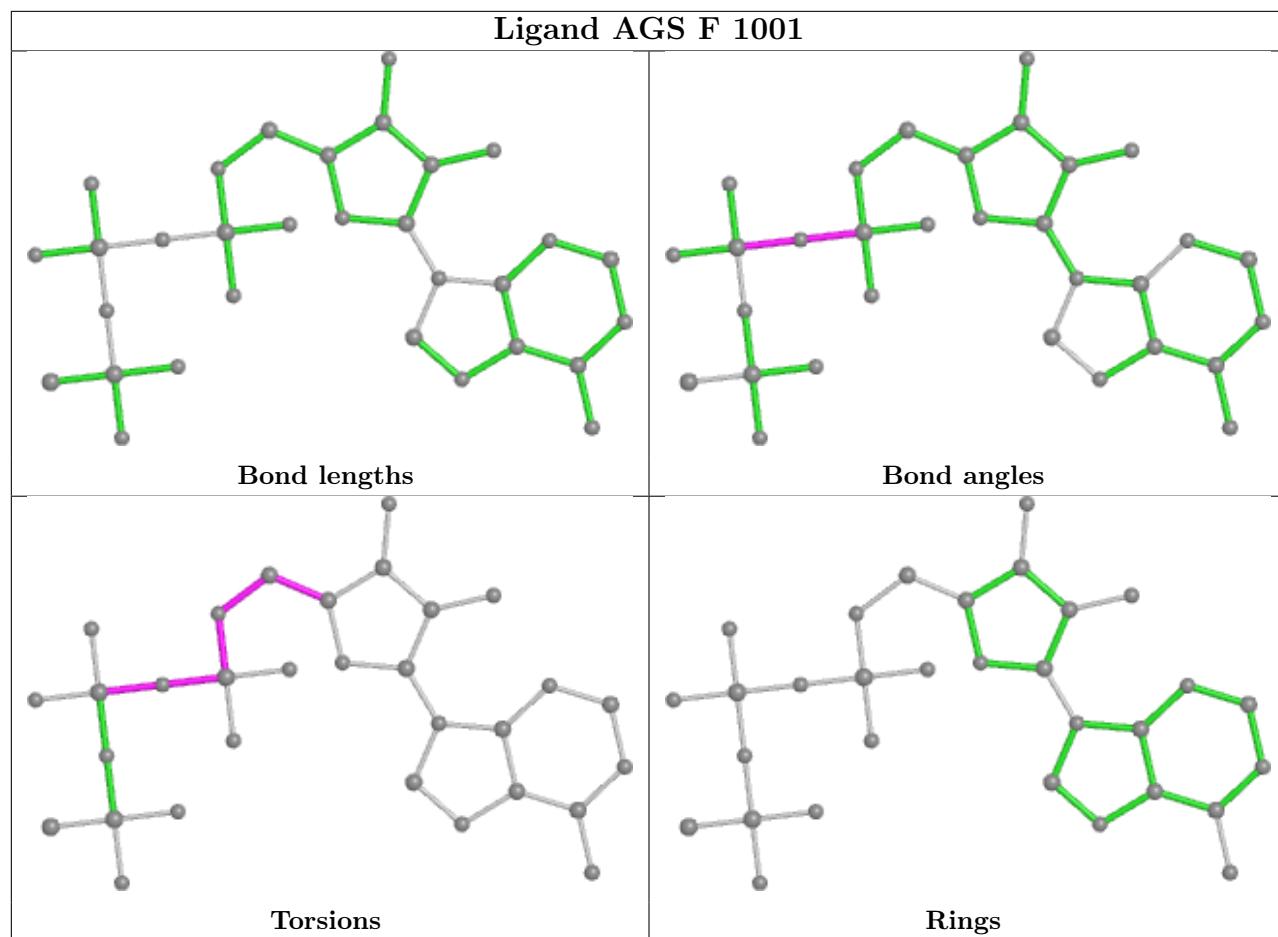
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	1001	AGS	29	0
2	D	1001	AGS	39	0
2	F	1001	AGS	18	0
2	C	1001	AGS	29	0
2	F	1002	AGS	19	0
2	E	1002	AGS	35	0

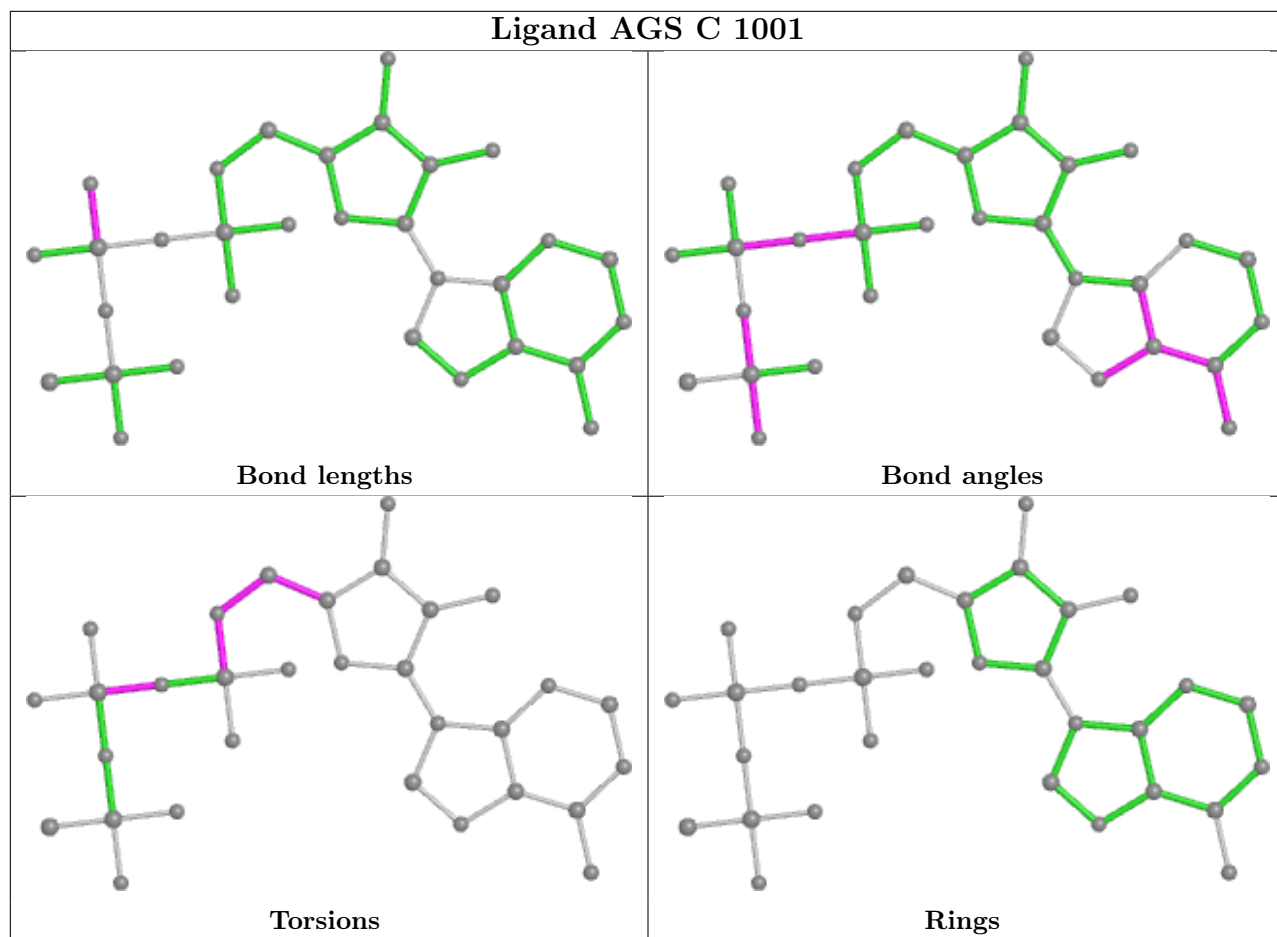
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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

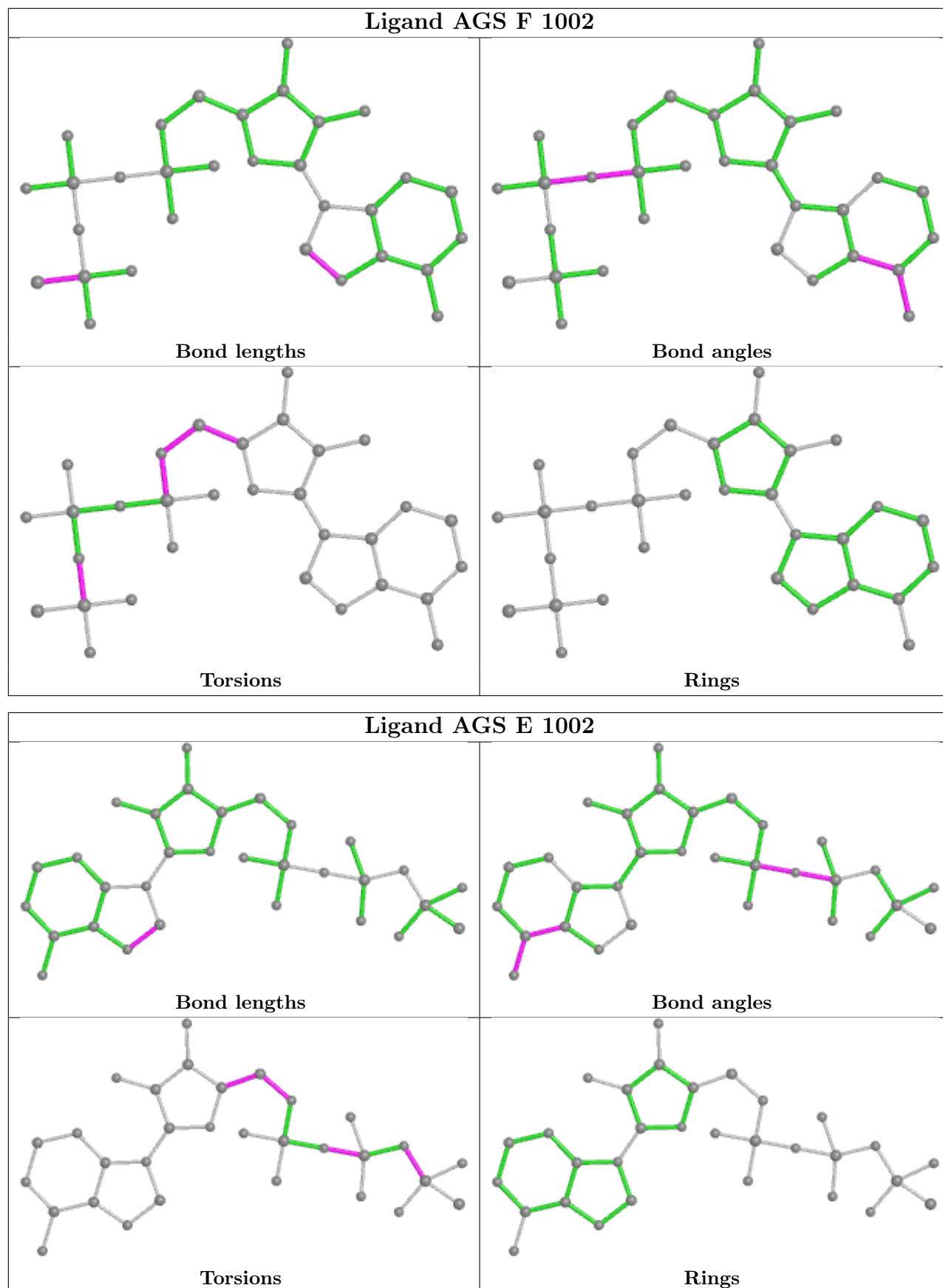
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents 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.

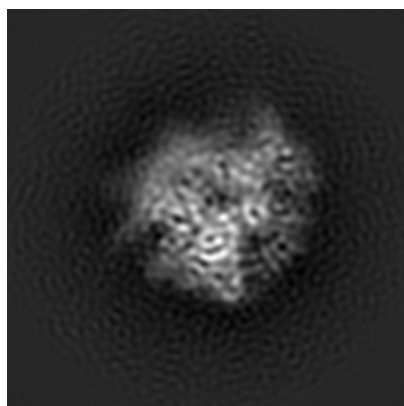
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9625. These allow visual inspection of the internal detail of the map and identification of artifacts.

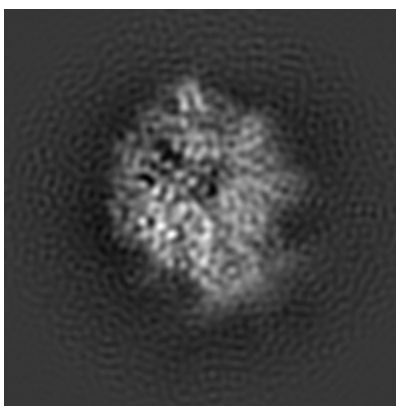
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

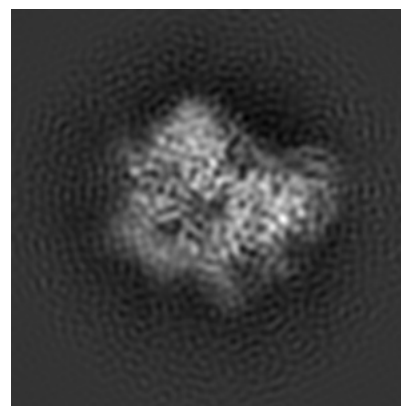
6.1.1 Primary map



X

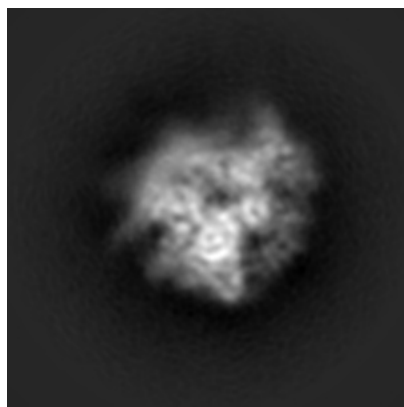


Y

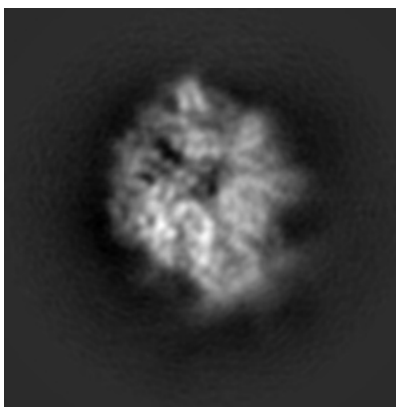


Z

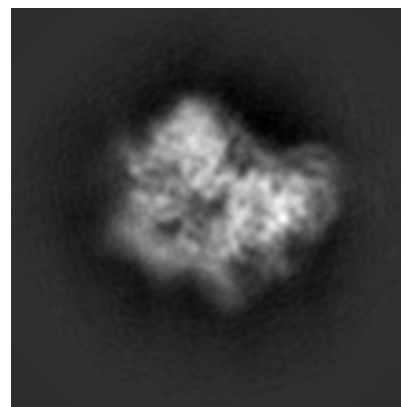
6.1.2 Raw map



X



Y

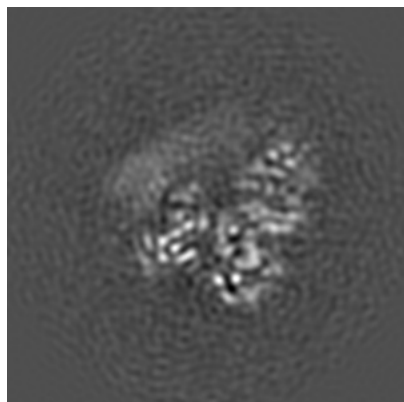


Z

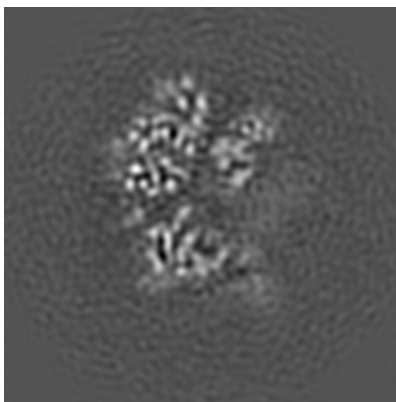
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

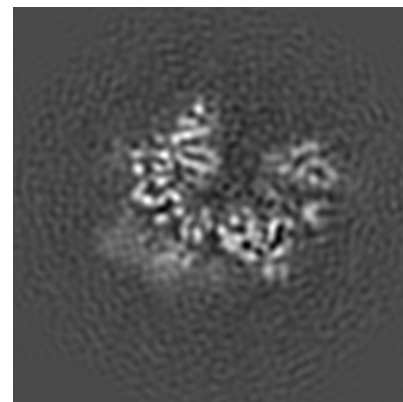
6.2.1 Primary map



X Index: 54

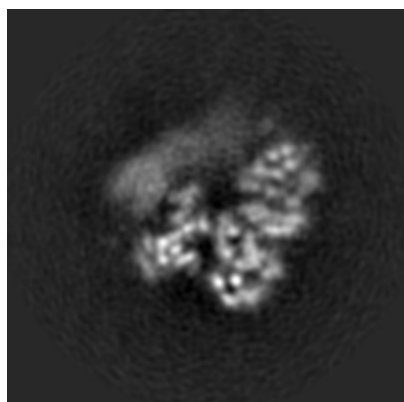


Y Index: 54

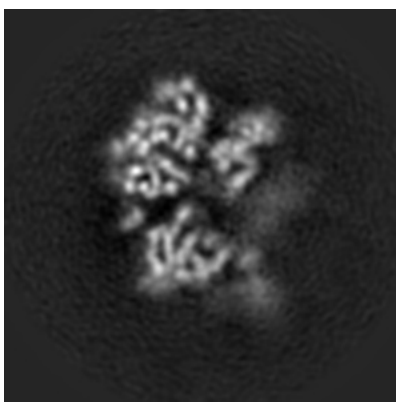


Z Index: 54

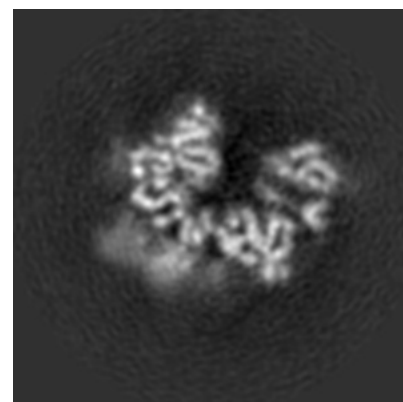
6.2.2 Raw map



X Index: 54



Y Index: 54

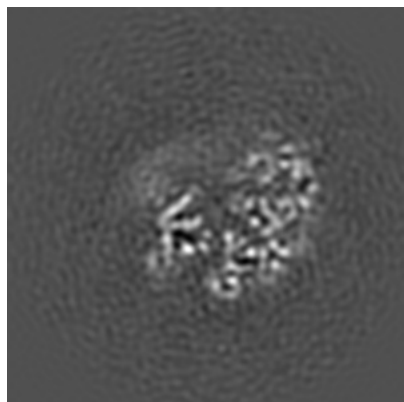


Z Index: 54

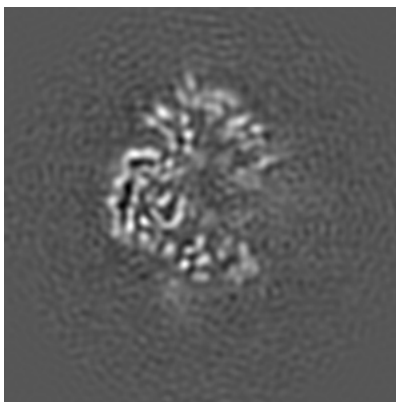
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

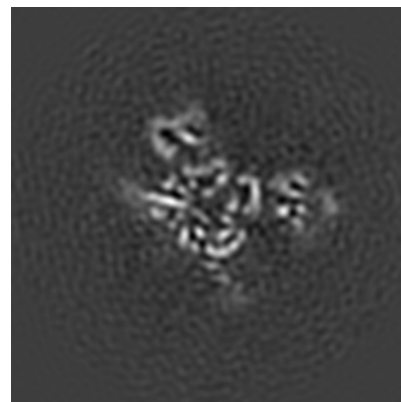
6.3.1 Primary map



X Index: 49

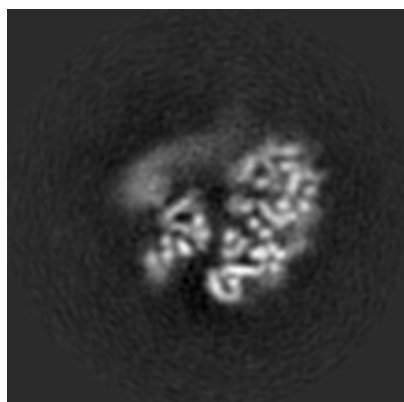


Y Index: 60

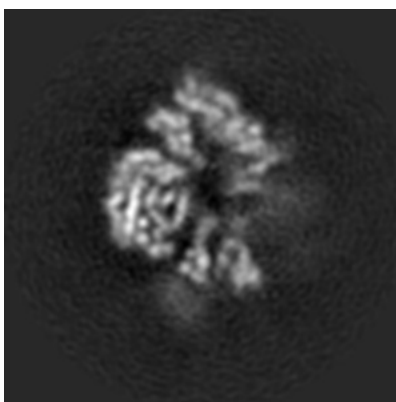


Z Index: 44

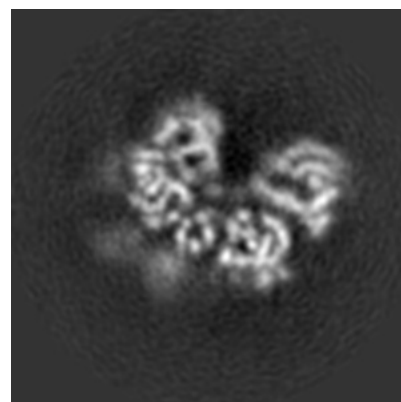
6.3.2 Raw map



X Index: 50



Y Index: 61

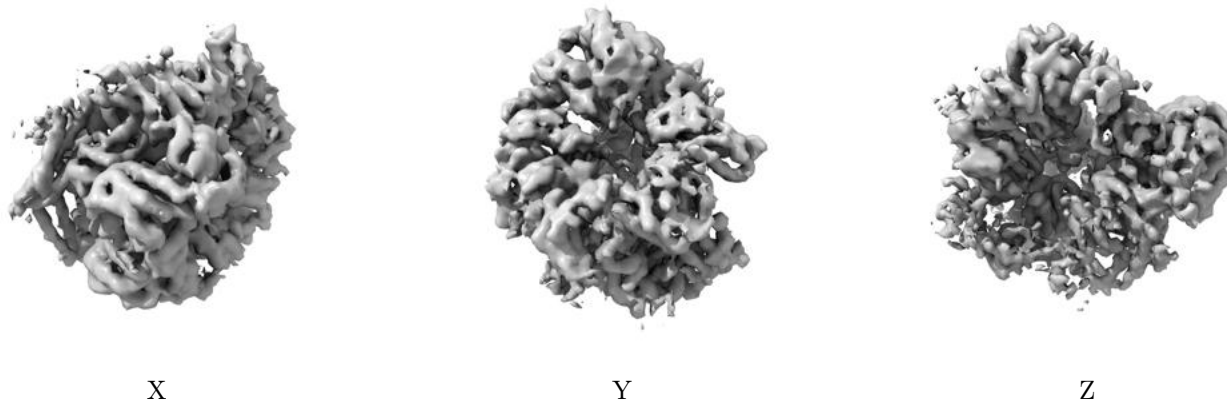


Z Index: 52

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

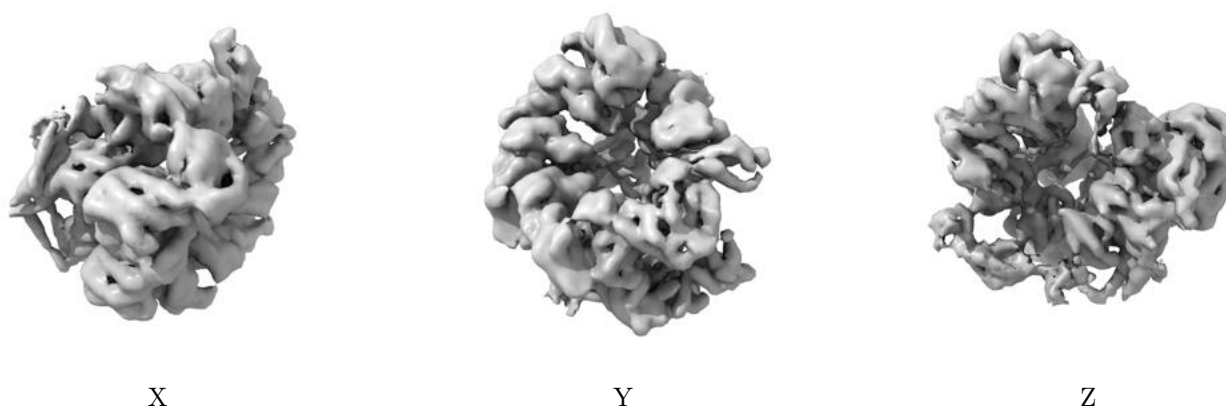
6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.08. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

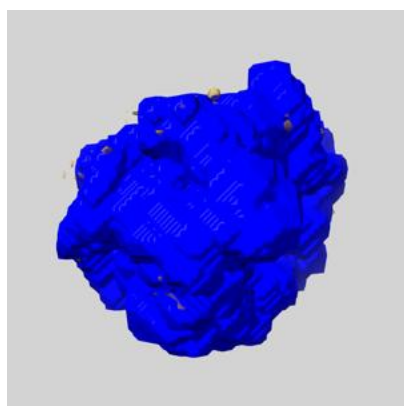
6.5 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

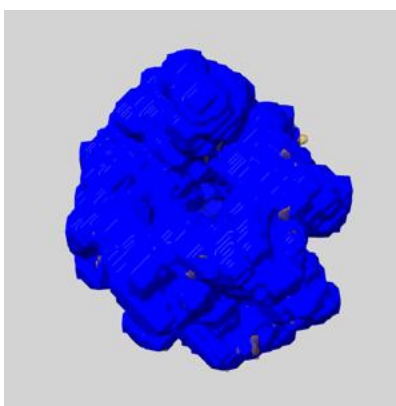
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

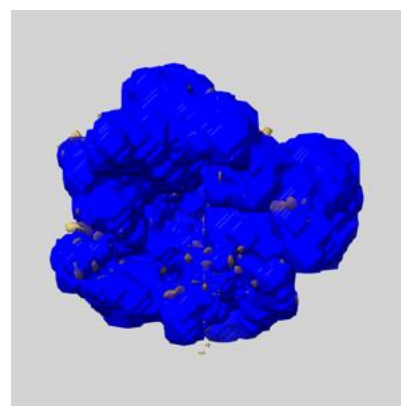
6.5.1 emd_9625_msk_1.map [i](#)



X



Y

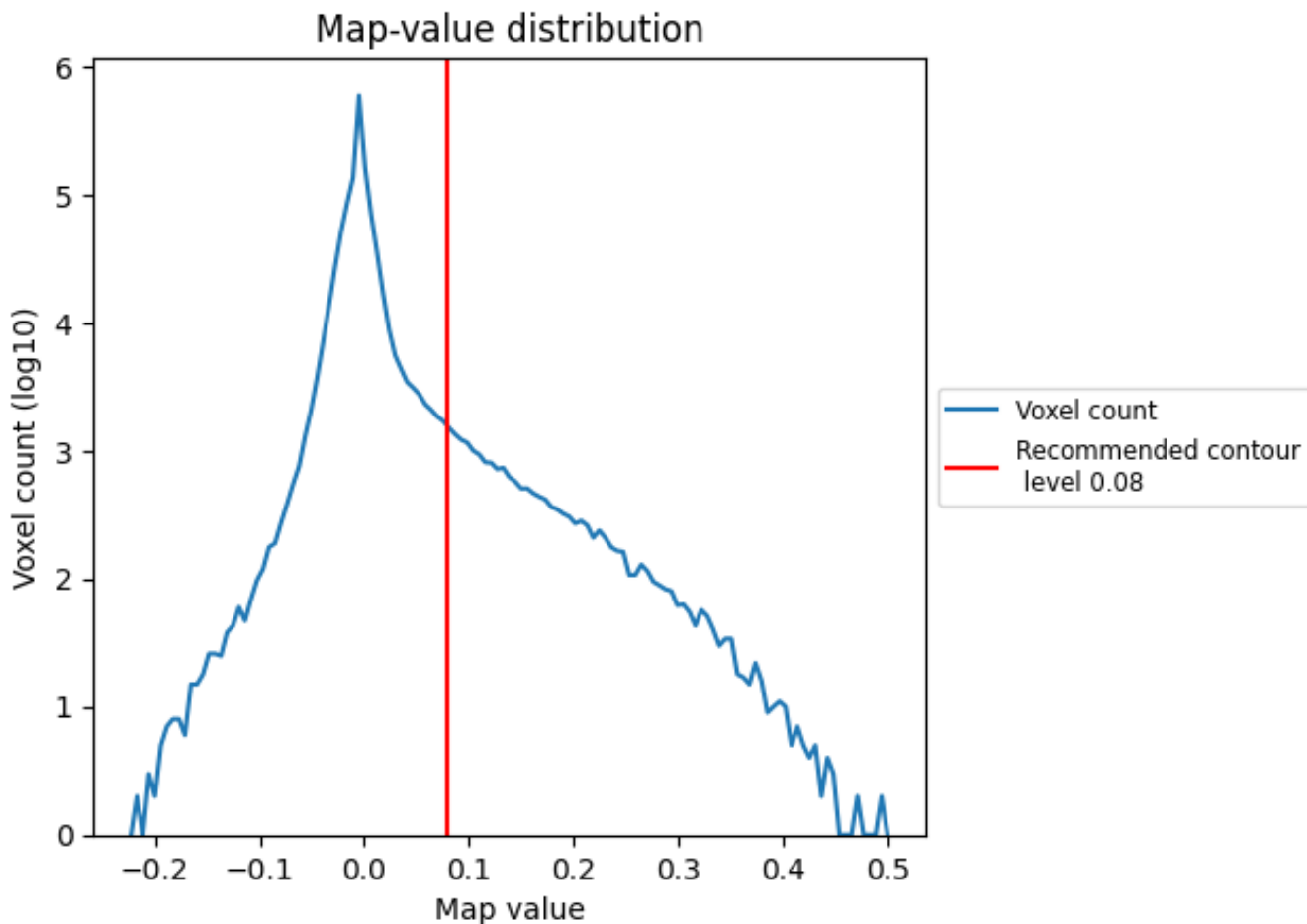


Z

7 Map analysis [i](#)

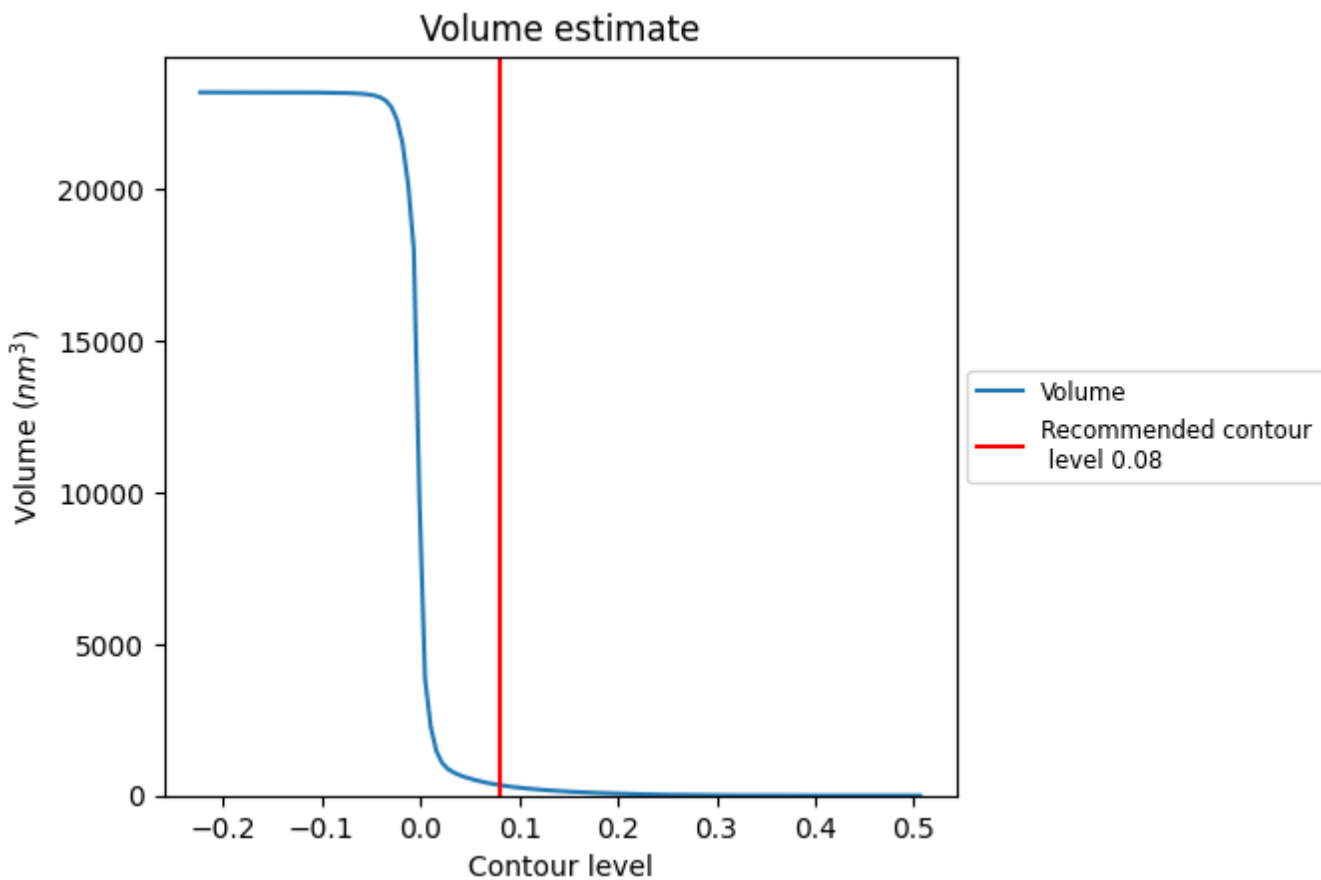
This section contains the results of statistical analysis of the map.

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.

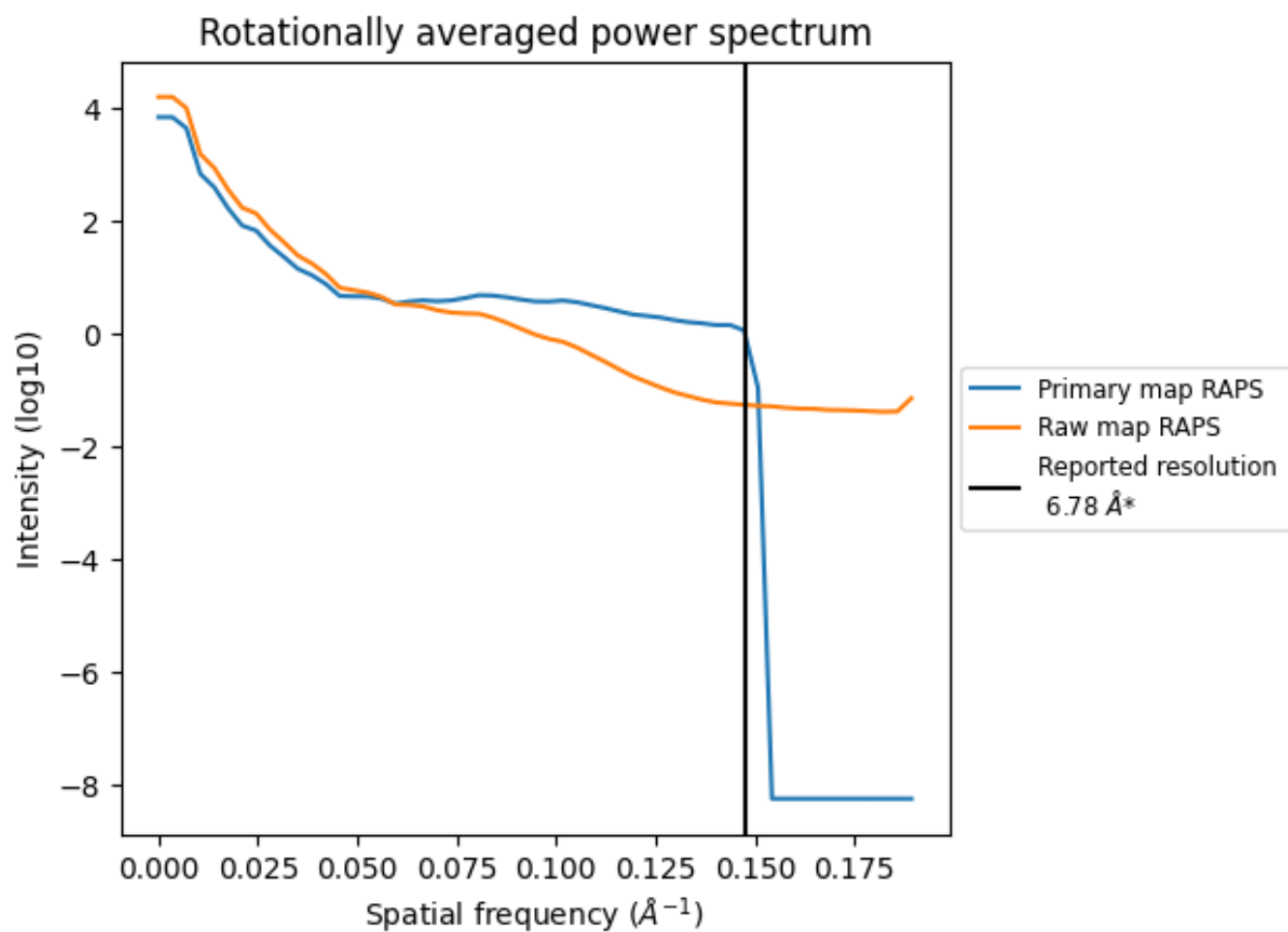
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 346 nm^3 ; this corresponds to an approximate mass of 313 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 [i](#)

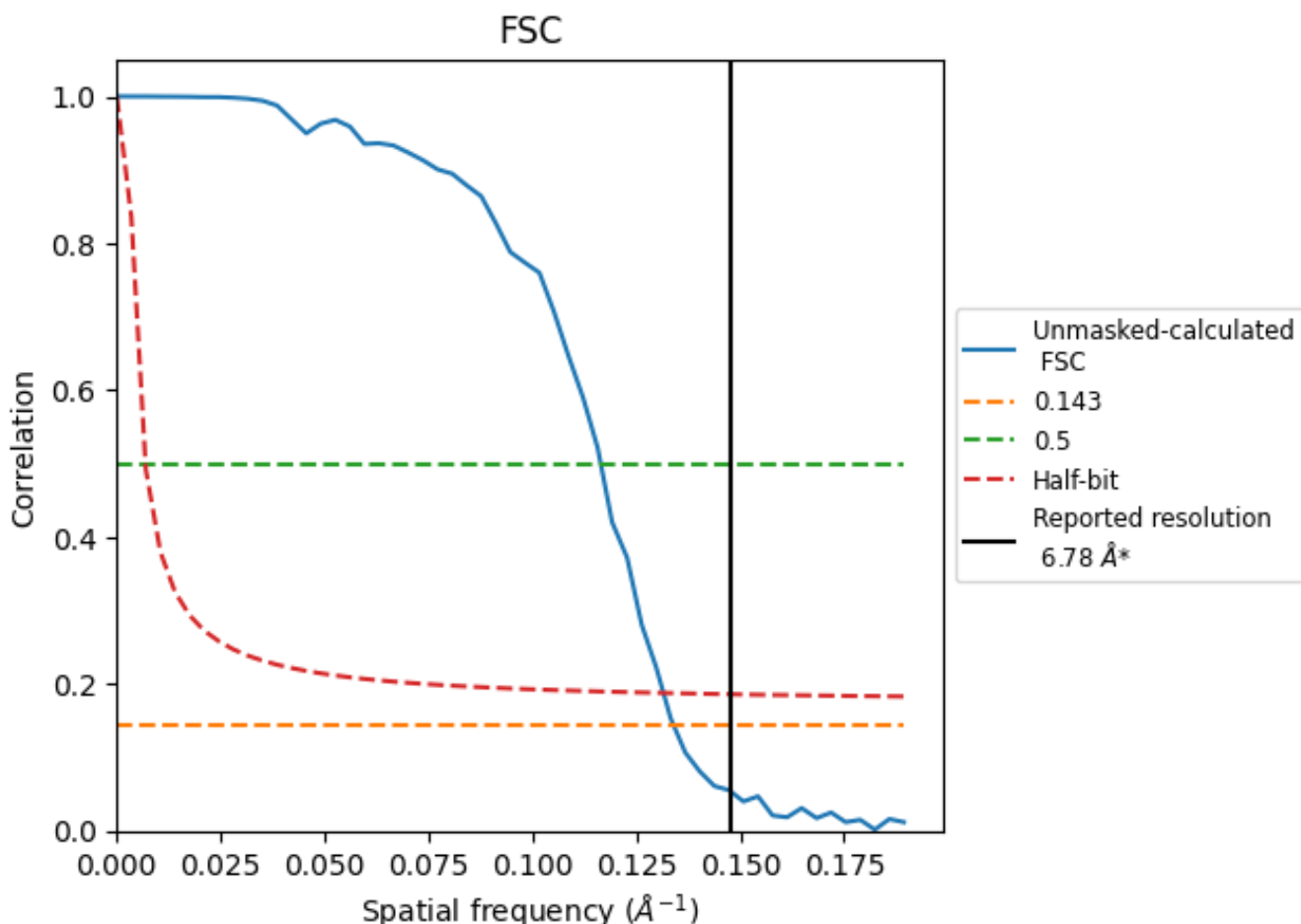


*Reported resolution corresponds to spatial frequency of 0.147 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.147 Å⁻¹

8.2 Resolution estimates [i](#)

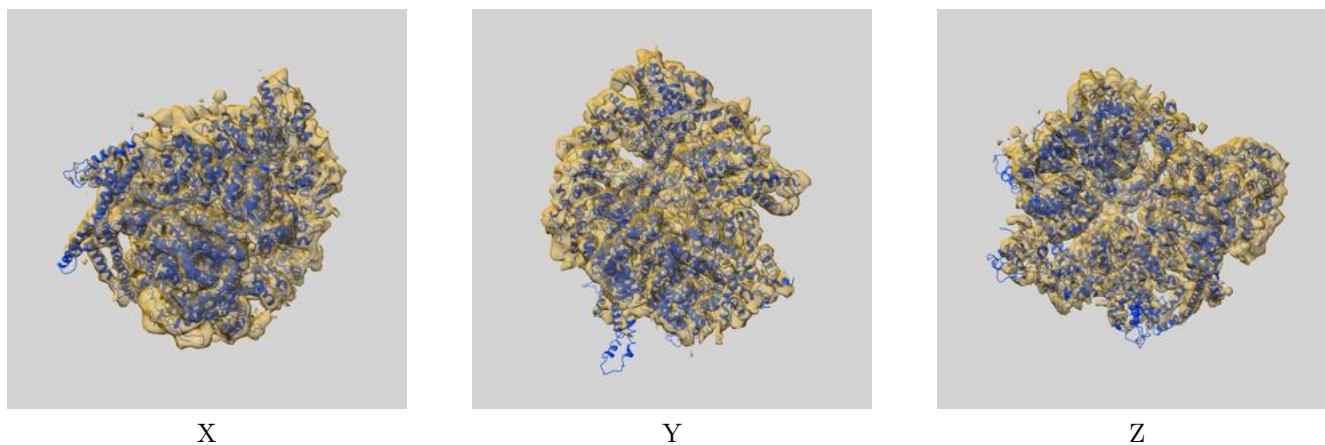
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.78	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	7.46	8.58	7.60

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.46 differs from the reported value 6.78 by more than 10 %

9 Map-model fit [i](#)

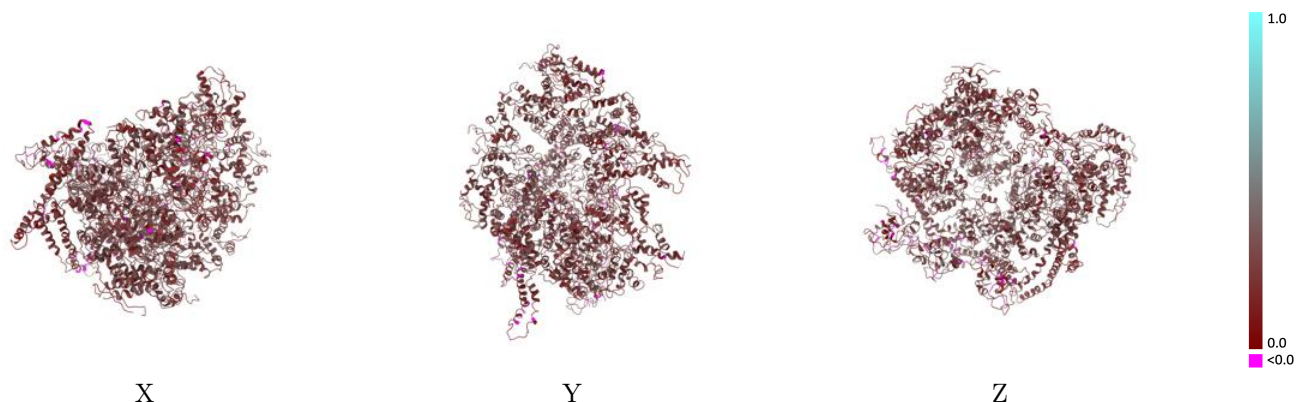
This section contains information regarding the fit between EMDB map EMD-9625 and PDB model 6AHF. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



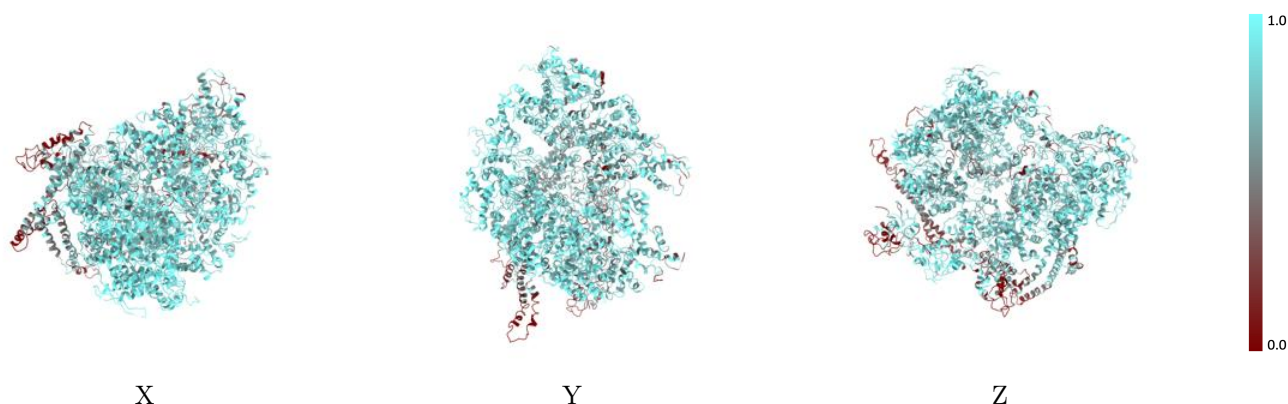
The images above show the 3D surface view of the map at the recommended contour level 0.08 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



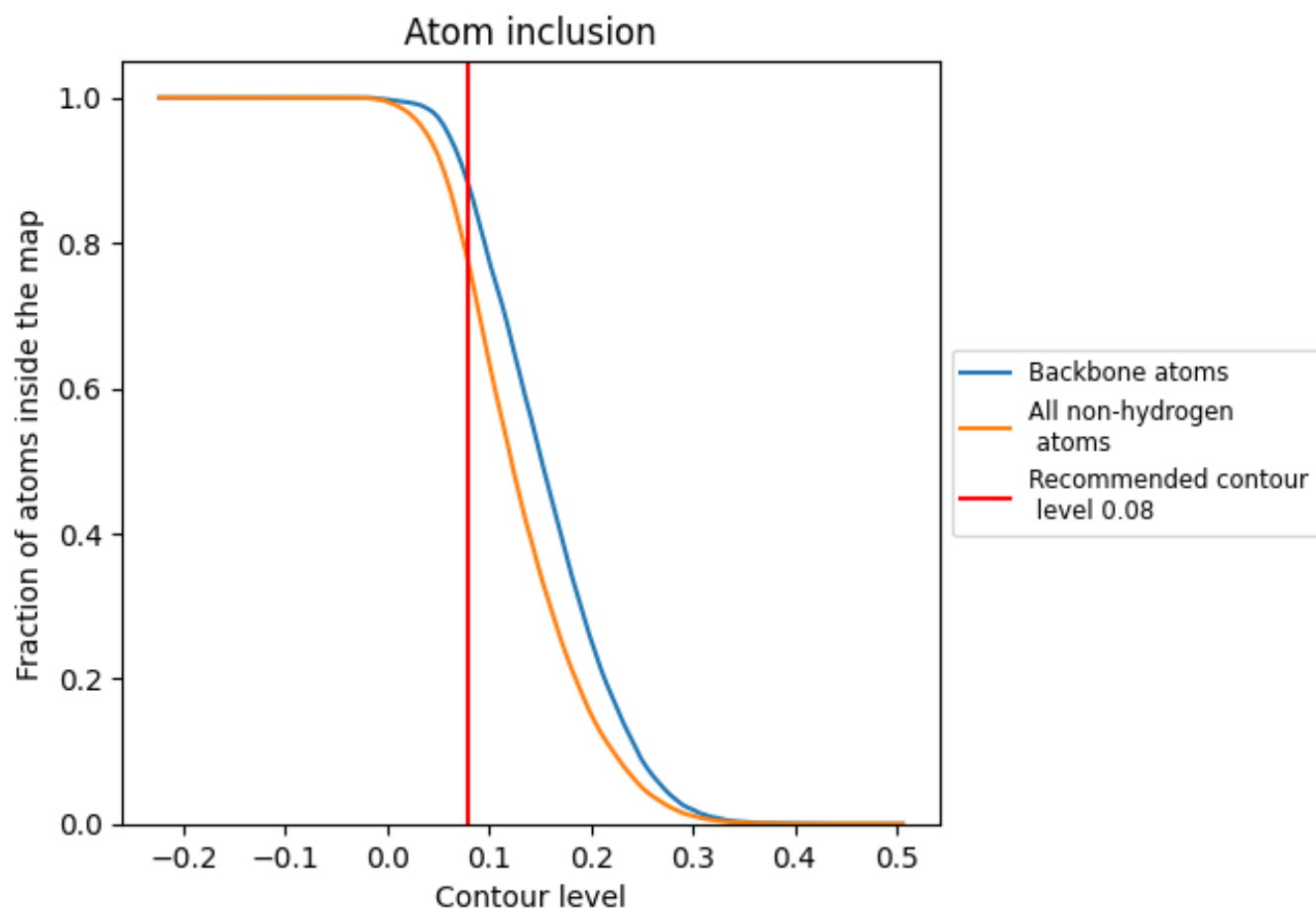
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.08).















9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 77% 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 (0.08) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7720	 0.2430
A	 0.7287	 0.2380
B	 0.7940	 0.2480
C	 0.7521	 0.2460
D	 0.7683	 0.2500
E	 0.8062	 0.2450
F	 0.7797	 0.2310

