



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Sep 17, 2017 – 11:31 AM EDT

PDB ID : 5UBQ
EMDB ID: : EMD-8528
Title : Cryo-EM structure of ciliary microtubule doublet
Authors : Ichikawa, M.; Liu, D.; Kastiris, P.L.; Basu, K.; Bui, K.H.
Deposited on : unknown
Resolution : 5.70 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

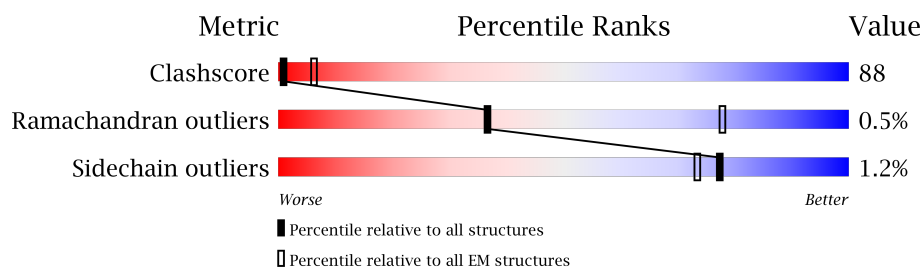
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.70 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	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	441	
1	C	441	
1	E	441	
2	B	429	
2	D	429	
2	F	429	

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
3	GTP	A	501	-	-	X	-
3	GTP	C	501	-	-	X	-
3	GTP	E	501	-	-	X	-
5	GDP	B	501	-	-	X	-
5	GDP	D	501	-	-	X	-
5	GDP	F	501	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 25014 atoms, of which 4476 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 Tubulin alpha chain.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	C	441	Total	C	H	N	O	S	0	0
			4165	2163	742	581	657	22		
1	E	441	Total	C	H	N	O	S	0	0
			4165	2163	742	581	657	22		
1	A	441	Total	C	H	N	O	S	0	0
			4165	2163	742	581	657	22		

- Molecule 2 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	D	429	Total	C	H	N	O	S	0	0
			4104	2112	742	576	646	28		
2	F	429	Total	C	H	N	O	S	0	0
			4104	2112	742	576	646	28		
2	B	429	Total	C	H	N	O	S	0	0
			4104	2112	742	576	646	28		

- Molecule 3 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃).

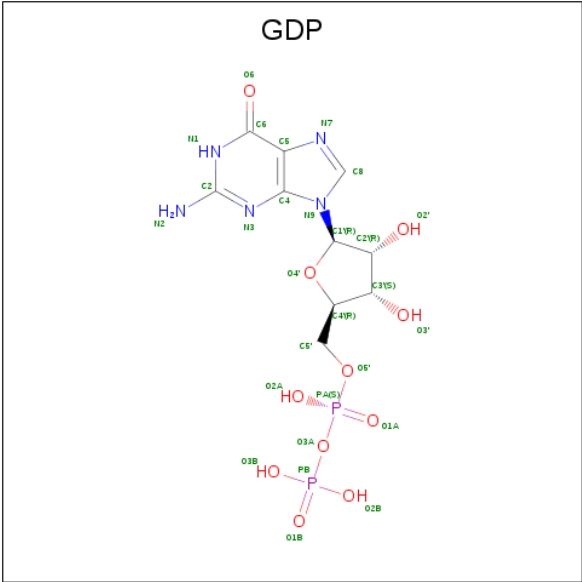


Mol	Chain	Residues	Atoms						AltConf
3	C	1	Total	C	H	N	O	P	0
			35	10	3	5	14	3	
3	E	1	Total	C	H	N	O	P	0
			35	10	3	5	14	3	
3	A	1	Total	C	H	N	O	P	0
			35	10	3	5	14	3	

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Mg	0
			1	1	
4	C	1	Total	Mg	0
			1	1	
4	E	1	Total	Mg	0
			1	1	

- Molecule 5 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



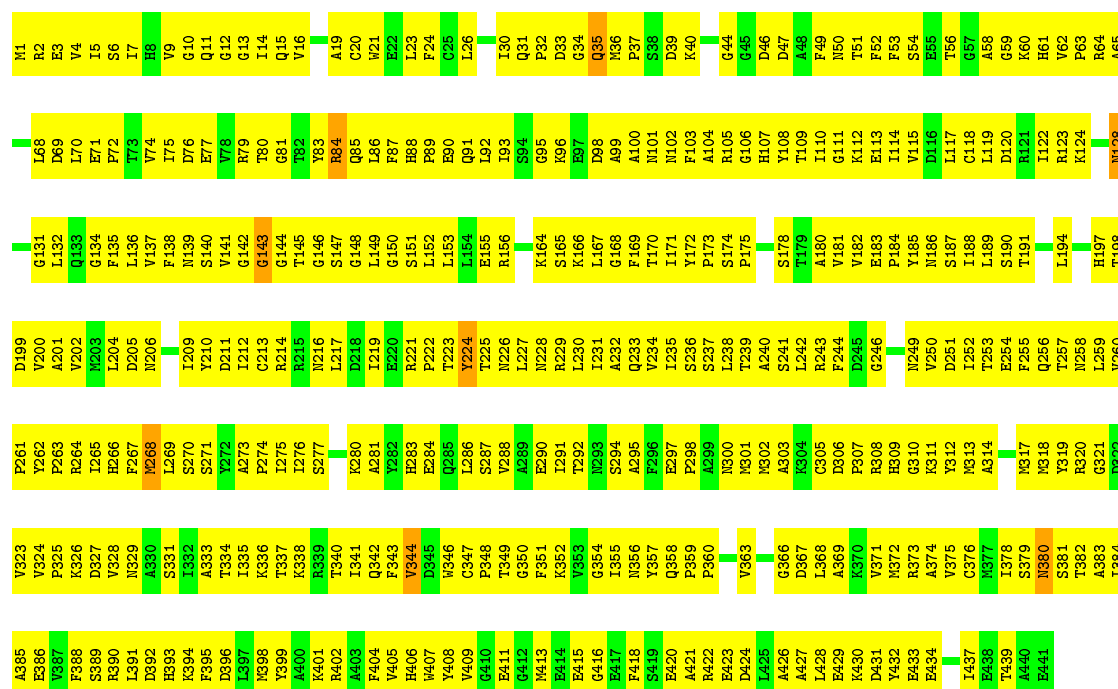
Mol	Chain	Residues	Atoms						AltConf
5	D	1	Total	C	H	N	O	P	0
			33	10	5	5	11	2	
5	F	1	Total	C	H	N	O	P	0
			33	10	5	5	11	2	
5	B	1	Total	C	H	N	O	P	0
			33	10	5	5	11	2	

3 Residue-property plots

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

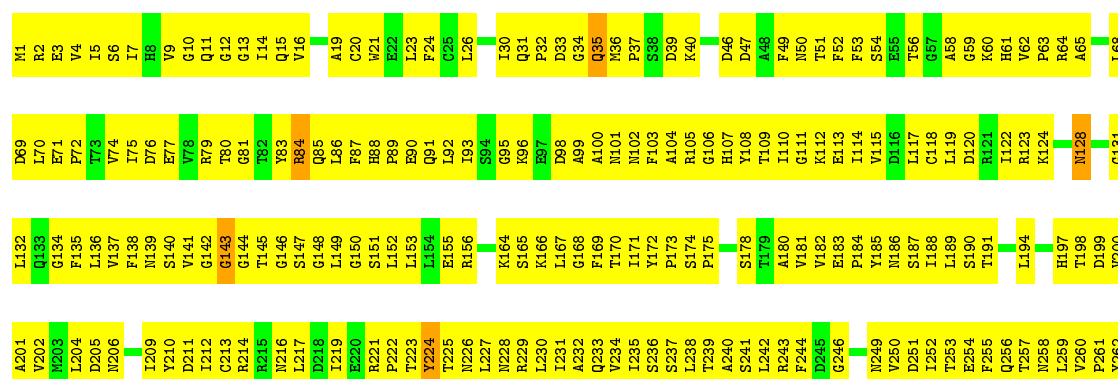
• Molecule 1: Tubulin alpha chain

Chain C: 

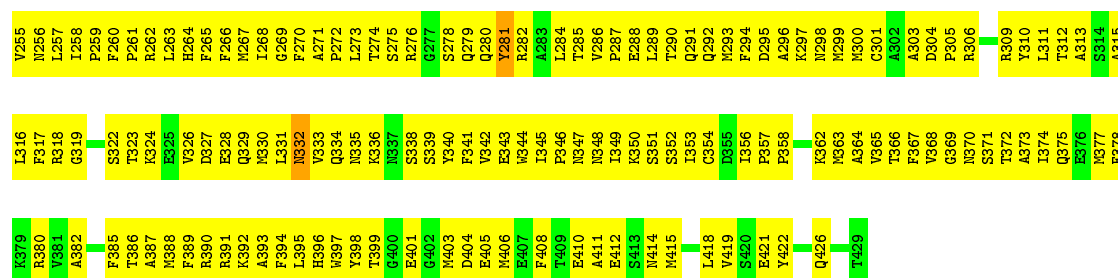


• Molecule 1: Tubulin alpha chain

Chain E: 

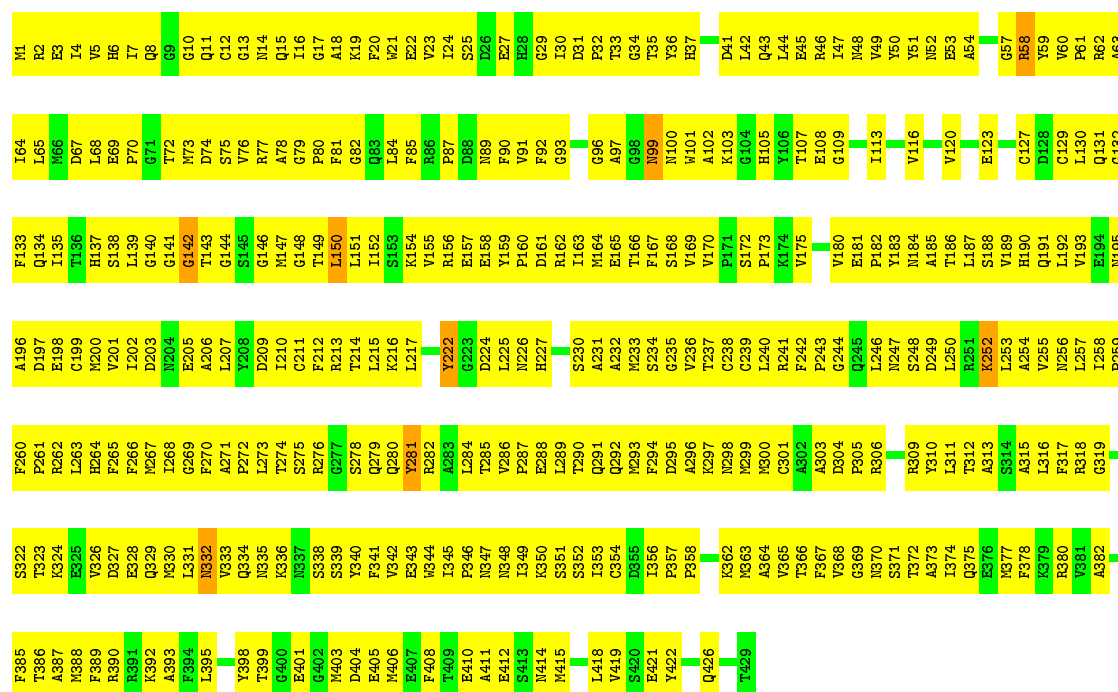






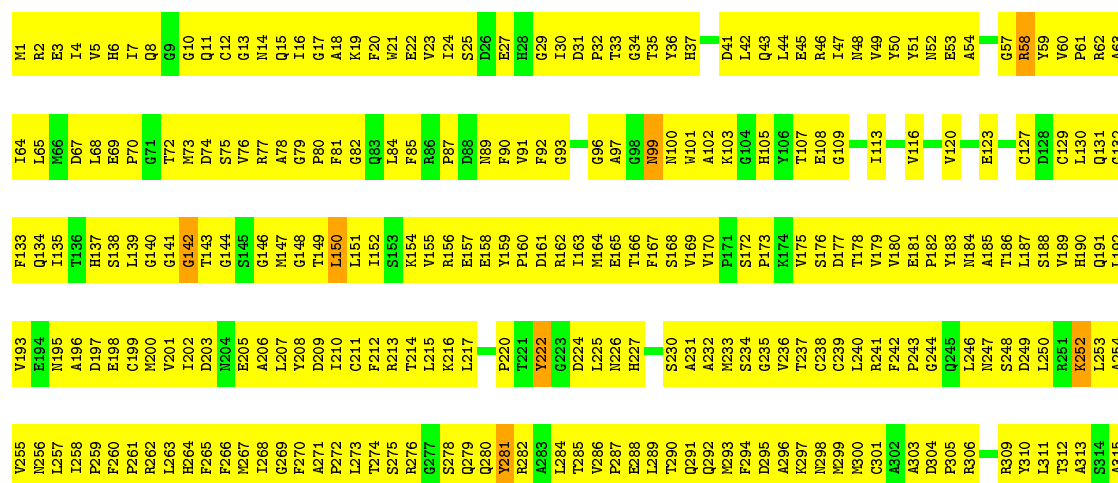
• Molecule 2: Tubulin beta chain

Chain F: 21% 77%



• Molecule 2: Tubulin beta chain

Chain B: 19% 79%



L316	L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400	L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424	L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472	L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484	L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520	L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580	L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000
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4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	127429	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 ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3800	Depositor
Magnification	59000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.58	1/3495 (0.0%)	0.61	0/4735
1	C	0.58	1/3495 (0.0%)	0.61	0/4735
1	E	0.58	1/3495 (0.0%)	0.61	0/4735
2	B	0.55	0/3435	0.66	3/4648 (0.1%)
2	D	0.55	0/3435	0.66	3/4648 (0.1%)
2	F	0.55	0/3435	0.66	3/4648 (0.1%)
All	All	0.57	3/20790 (0.0%)	0.64	9/28149 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
1	E	0	1
2	B	0	1
2	D	0	1
2	F	0	1
All	All	0	6

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	35	GLN	C-N	-8.20	1.15	1.34
1	A	35	GLN	C-N	-8.16	1.15	1.34
1	E	35	GLN	C-N	-8.15	1.15	1.34

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	252	LYS	CD-CE-NZ	8.21	130.58	111.70
2	B	252	LYS	CD-CE-NZ	8.20	130.55	111.70
2	D	252	LYS	CD-CE-NZ	8.19	130.53	111.70
2	B	150	LEU	CA-CB-CG	-5.56	102.51	115.30
2	D	150	LEU	CA-CB-CG	-5.56	102.52	115.30
2	F	150	LEU	CA-CB-CG	-5.55	102.55	115.30
2	F	58	ARG	NE-CZ-NH1	5.14	122.87	120.30
2	B	58	ARG	NE-CZ-NH1	5.12	122.86	120.30
2	D	58	ARG	NE-CZ-NH1	5.09	122.84	120.30

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	143	GLY	Peptide
2	B	99	ASN	Peptide
1	C	143	GLY	Peptide
2	D	99	ASN	Peptide
1	E	143	GLY	Peptide
2	F	99	ASN	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3423	742	3353	550	0
1	C	3423	742	3348	694	0
1	E	3423	742	3348	692	0
2	B	3362	742	3244	701	0
2	D	3362	742	3244	700	0
2	F	3362	742	3244	558	0
3	A	32	3	9	41	0
3	C	32	3	9	41	0
3	E	32	3	9	41	0
4	A	1	0	0	1	0
4	C	1	0	0	1	0
4	E	1	0	0	1	0
5	B	28	5	11	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	D	28	5	11	21	0
5	F	28	5	11	21	0
All	All	20538	4476	19841	3536	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 88.

All (3536) 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:C:347:CYS:CB	2:B:388:MET:HE3	1.21	1.67
2:D:388:MET:HE3	1:E:347:CYS:CB	1.18	1.64
2:D:388:MET:CE	1:E:347:CYS:HA	1.38	1.53
2:B:12:CYS:HB2	5:B:501:GDP:C8	1.45	1.52
2:D:12:CYS:HB2	5:D:501:GDP:C8	1.45	1.52
2:F:12:CYS:HB2	5:F:501:GDP:C8	1.45	1.52
2:D:12:CYS:HB2	5:D:501:GDP:N7	1.19	1.52
2:F:12:CYS:HB2	5:F:501:GDP:N7	1.19	1.52
2:B:12:CYS:HB2	5:B:501:GDP:N7	1.19	1.51
2:D:388:MET:SD	1:E:347:CYS:HA	1.49	1.51
1:C:347:CYS:HA	2:B:388:MET:CE	1.41	1.50
1:C:347:CYS:HA	2:B:388:MET:SD	1.51	1.50
2:D:70:PRO:CD	1:E:1:MET:HE1	1.40	1.49
2:D:12:CYS:SG	5:D:501:GDP:C6	2.05	1.49
2:F:12:CYS:SG	5:F:501:GDP:C6	2.05	1.49
2:B:12:CYS:SG	5:B:501:GDP:C6	2.05	1.48
2:B:12:CYS:SG	5:B:501:GDP:C5	2.08	1.47
2:D:12:CYS:SG	5:D:501:GDP:C5	2.08	1.47
2:F:12:CYS:SG	5:F:501:GDP:C5	2.08	1.47
1:C:1:MET:HE1	2:B:70:PRO:CD	1.42	1.47
1:C:257:THR:O	2:B:394:PHE:CD1	1.69	1.45
2:D:179:VAL:HB	1:E:350:GLY:CA	1.46	1.43
1:C:350:GLY:CA	2:B:179:VAL:HB	1.49	1.42
2:D:394:PHE:CD1	1:E:257:THR:O	1.72	1.42
2:D:397:TRP:HH2	1:E:255:PHE:C	1.23	1.41
2:D:388:MET:CE	1:E:347:CYS:CA	1.97	1.40
1:C:255:PHE:C	2:B:397:TRP:HH2	1.24	1.40
2:D:396:HIS:CD2	1:E:262:TYR:CA	2.03	1.40
1:C:262:TYR:C	2:B:396:HIS:NE2	1.71	1.39
2:D:70:PRO:CD	1:E:1:MET:CE	1.99	1.39
2:D:396:HIS:NE2	1:E:262:TYR:C	1.70	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:388:MET:CE	1:E:347:CYS:CB	1.98	1.39
1:C:1:MET:CE	2:B:70:PRO:HD2	1.48	1.39
1:C:1:MET:CE	2:B:70:PRO:CD	2.00	1.38
1:C:347:CYS:CA	2:B:388:MET:CE	2.01	1.37
2:D:70:PRO:HD2	1:E:1:MET:CE	1.49	1.37
1:C:262:TYR:CA	2:B:396:HIS:CD2	2.07	1.37
1:C:347:CYS:CB	2:B:388:MET:CE	2.01	1.37
2:D:396:HIS:CD2	1:E:262:TYR:HA	1.59	1.36
1:C:262:TYR:HA	2:B:396:HIS:CD2	1.62	1.34
2:D:179:VAL:CB	1:E:350:GLY:HA2	1.59	1.32
2:D:388:MET:HE3	1:E:347:CYS:CA	1.56	1.31
1:C:350:GLY:HA2	2:B:179:VAL:CB	1.61	1.30
2:D:394:PHE:CD1	1:E:261:PRO:HA	1.66	1.30
1:C:349:THR:O	2:B:179:VAL:HG23	1.15	1.30
1:C:346:TRP:CE3	2:B:391:ARG:HB2	1.67	1.29
1:C:347:CYS:CA	2:B:388:MET:HE3	1.59	1.29
2:D:391:ARG:HB2	1:E:346:TRP:CE3	1.67	1.29
1:C:347:CYS:SG	2:B:388:MET:HE3	1.72	1.29
2:D:388:MET:HE3	1:E:347:CYS:SG	1.71	1.28
1:C:261:PRO:HA	2:B:394:PHE:CD1	1.68	1.28
2:D:179:VAL:HG23	1:E:349:THR:O	1.12	1.27
1:A:11:GLN:H	3:A:501:GTP:PA	1.57	1.27
1:C:11:GLN:H	3:C:501:GTP:PA	1.57	1.27
1:E:11:GLN:H	3:E:501:GTP:PA	1.57	1.27
1:C:346:TRP:H	2:B:391:ARG:NH1	1.30	1.27
2:D:391:ARG:NH1	1:E:346:TRP:H	1.28	1.27
2:B:12:CYS:CB	5:B:501:GDP:N7	1.98	1.27
1:C:2:ARG:HD3	2:B:69:GLU:OE2	1.20	1.27
1:A:12:GLY:CA	3:A:501:GTP:C5	2.17	1.27
2:D:12:CYS:CB	5:D:501:GDP:N7	1.98	1.27
2:F:12:CYS:CB	5:F:501:GDP:N7	1.98	1.27
1:C:12:GLY:CA	3:C:501:GTP:C5	2.17	1.27
1:E:12:GLY:CA	3:E:501:GTP:C5	2.17	1.27
2:D:69:GLU:OE2	1:E:2:ARG:HD3	1.20	1.26
1:C:262:TYR:O	2:B:396:HIS:NE2	1.67	1.26
2:D:388:MET:SD	1:E:348:PRO:HD2	1.76	1.26
2:D:396:HIS:CE1	1:E:262:TYR:O	1.86	1.25
2:D:396:HIS:NE2	1:E:262:TYR:O	1.66	1.25
2:D:397:TRP:CH2	1:E:255:PHE:C	2.12	1.23
1:C:348:PRO:HD2	2:B:388:MET:SD	1.79	1.23
1:C:262:TYR:O	2:B:396:HIS:CE1	1.89	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:255:PHE:C	2:B:397:TRP:CH2	2.12	1.23
1:A:12:GLY:HA2	3:A:501:GTP:C5	1.49	1.22
1:C:12:GLY:HA2	3:C:501:GTP:C5	1.49	1.22
1:E:12:GLY:HA2	3:E:501:GTP:C5	1.49	1.22
2:D:179:VAL:CG2	1:E:349:THR:O	1.87	1.21
2:D:394:PHE:HD1	1:E:257:THR:O	0.88	1.20
1:E:10:GLY:HA2	3:E:501:GTP:O1B	1.42	1.20
1:C:10:GLY:HA2	3:C:501:GTP:O1B	1.43	1.19
1:A:10:GLY:HA2	3:A:501:GTP:O1B	1.43	1.19
2:D:397:TRP:CH2	1:E:256:GLN:N	2.01	1.19
1:C:257:THR:O	2:B:394:PHE:HD1	0.86	1.19
1:C:349:THR:O	2:B:179:VAL:CG2	1.89	1.18
1:C:256:GLN:N	2:B:397:TRP:CH2	2.00	1.18
2:D:396:HIS:CD2	1:E:262:TYR:C	2.14	1.17
1:C:261:PRO:HA	2:B:394:PHE:CG	1.81	1.16
2:D:394:PHE:CG	1:E:261:PRO:HA	1.81	1.16
1:C:262:TYR:C	2:B:396:HIS:CD2	2.15	1.16
2:D:396:HIS:NE2	1:E:262:TYR:CA	2.05	1.15
1:C:258:ASN:C	2:B:394:PHE:CE1	2.21	1.14
1:A:10:GLY:HA2	3:A:501:GTP:PB	1.87	1.13
1:C:10:GLY:HA2	3:C:501:GTP:PB	1.87	1.13
1:E:10:GLY:HA2	3:E:501:GTP:PB	1.87	1.13
2:D:394:PHE:CE1	1:E:258:ASN:C	2.21	1.13
1:C:262:TYR:CA	2:B:396:HIS:NE2	2.08	1.12
1:A:166:LYS:HE2	1:A:199:ASP:HB2	1.27	1.12
1:C:258:ASN:O	2:B:394:PHE:CZ	2.01	1.12
2:D:394:PHE:CZ	1:E:258:ASN:O	2.01	1.12
1:C:166:LYS:HE2	1:C:199:ASP:HB2	1.27	1.12
1:E:166:LYS:HE2	1:E:199:ASP:HB2	1.27	1.12
1:C:104:ALA:O	1:C:108:TYR:HB2	1.49	1.10
1:E:104:ALA:O	1:E:108:TYR:HB2	1.49	1.10
1:A:104:ALA:O	1:A:108:TYR:HB2	1.49	1.10
1:C:346:TRP:CE3	2:B:391:ARG:CB	2.35	1.10
2:D:391:ARG:CB	1:E:346:TRP:CE3	2.35	1.09
1:E:184:PRO:HB3	1:E:395:PHE:HB2	1.30	1.08
1:C:184:PRO:HB3	1:C:395:PHE:HB2	1.30	1.08
1:A:184:PRO:HB3	1:A:395:PHE:HB2	1.30	1.08
2:D:388:MET:CE	1:E:347:CYS:HB2	1.79	1.07
1:C:347:CYS:HB2	2:B:388:MET:CE	1.80	1.07
2:B:12:CYS:CB	5:B:501:GDP:C8	2.35	1.06
2:D:12:CYS:CB	5:D:501:GDP:C8	2.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:12:CYS:CB	5:F:501:GDP:C8	2.35	1.06
1:C:11:GLN:N	3:C:501:GTP:PA	2.27	1.06
1:E:11:GLN:N	3:E:501:GTP:PA	2.27	1.06
1:A:11:GLN:N	3:A:501:GTP:PA	2.27	1.06
1:A:11:GLN:N	3:A:501:GTP:O2A	1.89	1.06
1:C:11:GLN:N	3:C:501:GTP:O2A	1.89	1.06
1:E:11:GLN:N	3:E:501:GTP:O2A	1.89	1.06
2:D:391:ARG:NH1	1:E:346:TRP:N	2.03	1.05
1:C:346:TRP:N	2:B:391:ARG:NH1	2.04	1.05
2:F:207:LEU:HB3	2:F:225:LEU:HD22	1.40	1.04
2:B:207:LEU:HB3	2:B:225:LEU:HD22	1.40	1.04
2:D:207:LEU:HB3	2:D:225:LEU:HD22	1.40	1.04
1:A:12:GLY:HA3	3:A:501:GTP:C4	1.81	1.03
1:E:12:GLY:HA3	3:E:501:GTP:C4	1.81	1.03
1:C:12:GLY:HA3	3:C:501:GTP:C4	1.81	1.03
2:F:311:LEU:HD23	2:F:342:VAL:HG11	1.39	1.03
2:B:311:LEU:HD23	2:B:342:VAL:HG11	1.39	1.03
2:D:311:LEU:HD23	2:D:342:VAL:HG11	1.39	1.03
2:D:388:MET:SD	1:E:347:CYS:CA	2.45	1.03
2:D:69:GLU:OE2	1:E:2:ARG:CD	2.06	1.03
1:C:2:ARG:CD	2:B:69:GLU:OE2	2.07	1.02
2:D:73:MET:O	2:D:77:ARG:HB2	1.60	1.02
2:F:73:MET:O	2:F:77:ARG:HB2	1.60	1.02
2:B:73:MET:O	2:B:77:ARG:HB2	1.60	1.02
1:C:347:CYS:CA	2:B:388:MET:SD	2.47	1.01
2:B:12:CYS:CB	5:B:501:GDP:C5	2.43	1.00
2:D:12:CYS:CB	5:D:501:GDP:C5	2.43	1.00
2:F:12:CYS:CB	5:F:501:GDP:C5	2.43	1.00
2:D:316:LEU:HB2	2:D:366:THR:HB	1.44	0.99
2:B:65:LEU:HD22	2:B:90:PHE:HA	1.44	0.99
2:B:316:LEU:HB2	2:B:366:THR:HB	1.44	0.99
2:D:65:LEU:HD22	2:D:90:PHE:HA	1.44	0.99
2:F:316:LEU:HB2	2:F:366:THR:HB	1.44	0.99
2:F:65:LEU:HD22	2:F:90:PHE:HA	1.44	0.99
1:C:346:TRP:H	2:B:391:ARG:HH12	1.05	0.98
1:E:12:GLY:CA	3:E:501:GTP:C4	2.42	0.98
1:C:12:GLY:CA	3:C:501:GTP:C4	2.42	0.97
1:A:12:GLY:CA	3:A:501:GTP:C4	2.42	0.97
2:D:388:MET:SD	1:E:348:PRO:CD	2.52	0.97
2:D:178:THR:HA	1:E:351:PHE:O	1.64	0.97
2:D:396:HIS:CE1	1:E:262:TYR:C	2.33	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:391:ARG:HH12	1:E:346:TRP:H	1.05	0.97
2:D:394:PHE:CE1	1:E:258:ASN:O	2.16	0.96
2:D:175:VAL:HG21	1:E:329:ASN:OD1	1.65	0.96
2:D:70:PRO:CD	1:E:1:MET:HE3	1.94	0.96
2:D:394:PHE:CG	1:E:261:PRO:CA	2.49	0.95
2:B:410:GLU:O	2:B:414:ASN:HB2	1.66	0.95
2:D:410:GLU:O	2:D:414:ASN:HB2	1.66	0.95
2:F:410:GLU:O	2:F:414:ASN:HB2	1.66	0.95
1:C:1:MET:HE3	2:B:70:PRO:CD	1.94	0.95
1:C:258:ASN:O	2:B:394:PHE:CE1	2.18	0.95
1:C:256:GLN:N	2:B:397:TRP:HH2	1.48	0.95
1:C:261:PRO:CA	2:B:394:PHE:CG	2.50	0.95
2:D:394:PHE:CZ	1:E:261:PRO:N	2.23	0.95
1:C:261:PRO:N	2:B:394:PHE:CZ	2.23	0.94
1:C:348:PRO:CD	2:B:388:MET:SD	2.55	0.94
1:C:392:ASP:O	1:C:396:ASP:HB2	1.67	0.94
1:E:392:ASP:O	1:E:396:ASP:HB2	1.67	0.94
1:A:392:ASP:O	1:A:396:ASP:HB2	1.67	0.94
1:C:262:TYR:C	2:B:396:HIS:CE1	2.36	0.94
1:C:351:PHE:O	2:B:178:THR:HA	1.66	0.94
1:C:275:ILE:HA	1:C:368:LEU:HD13	1.49	0.94
1:E:275:ILE:HA	1:E:368:LEU:HD13	1.49	0.94
1:A:275:ILE:HA	1:A:368:LEU:HD13	1.49	0.94
1:C:329:ASN:OD1	2:B:175:VAL:HG21	1.67	0.94
2:D:70:PRO:CG	1:E:1:MET:CE	2.46	0.94
2:D:397:TRP:HH2	1:E:256:GLN:N	1.50	0.93
2:D:179:VAL:HG21	1:E:347:CYS:SG	2.08	0.93
2:B:12:CYS:HB2	5:B:501:GDP:C5	2.02	0.93
2:D:12:CYS:HB2	5:D:501:GDP:C5	2.02	0.93
2:F:12:CYS:HB2	5:F:501:GDP:C5	2.02	0.93
2:D:394:PHE:CE1	1:E:261:PRO:HA	2.04	0.92
1:C:258:ASN:CA	2:B:394:PHE:CE1	2.52	0.92
1:C:347:CYS:SG	2:B:179:VAL:HG21	2.09	0.92
1:C:261:PRO:HA	2:B:394:PHE:CE1	2.04	0.92
2:B:54:ALA:HB3	2:B:58:ARG:HB2	1.50	0.91
1:C:1:MET:CE	2:B:70:PRO:CG	2.48	0.91
2:D:54:ALA:HB3	2:D:58:ARG:HB2	1.50	0.91
2:D:70:PRO:CG	1:E:1:MET:HE3	2.00	0.91
2:F:54:ALA:HB3	2:F:58:ARG:HB2	1.50	0.91
2:D:391:ARG:HH11	1:E:346:TRP:N	1.66	0.91
1:C:346:TRP:CD2	2:B:391:ARG:CB	2.48	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:143:THR:N	5:D:501:GDP:O3B	1.93	0.90
2:F:143:THR:N	5:F:501:GDP:O3B	1.93	0.90
2:B:143:THR:N	5:B:501:GDP:O3B	1.93	0.90
2:D:394:PHE:CE1	1:E:258:ASN:CA	2.54	0.90
1:C:1:MET:HE3	2:B:70:PRO:CG	2.01	0.90
1:C:346:TRP:N	2:B:391:ARG:HH11	1.67	0.90
2:D:397:TRP:CH2	1:E:258:ASN:N	2.20	0.89
1:A:68:LEU:HD11	1:A:114:ILE:HD12	1.54	0.89
1:C:68:LEU:HD11	1:C:114:ILE:HD12	1.54	0.89
1:E:68:LEU:HD11	1:E:114:ILE:HD12	1.54	0.89
2:D:334:GLN:HB2	2:D:349:ILE:HD13	1.54	0.89
2:D:7:ILE:HG13	2:D:64:ILE:HB	1.53	0.89
2:F:334:GLN:HB2	2:F:349:ILE:HD13	1.54	0.89
2:F:7:ILE:HG13	2:F:64:ILE:HB	1.53	0.89
1:A:10:GLY:CA	3:A:501:GTP:O1B	2.20	0.89
2:B:334:GLN:HB2	2:B:349:ILE:HD13	1.54	0.89
2:B:7:ILE:HG13	2:B:64:ILE:HB	1.53	0.89
1:C:10:GLY:CA	3:C:501:GTP:O1B	2.20	0.89
1:E:10:GLY:CA	3:E:501:GTP:O1B	2.20	0.89
2:B:137:HIS:HB2	2:B:144:GLY:HA3	1.55	0.89
2:D:137:HIS:HB2	2:D:144:GLY:HA3	1.55	0.89
2:F:137:HIS:HB2	2:F:144:GLY:HA3	1.55	0.89
1:E:323:VAL:HB	1:E:355:ILE:HG23	1.54	0.88
1:A:323:VAL:HB	1:A:355:ILE:HG23	1.54	0.88
1:C:323:VAL:HB	1:C:355:ILE:HG23	1.54	0.88
1:A:142:GLY:HA3	3:A:501:GTP:H4'	1.53	0.88
2:B:11:GLN:N	5:B:501:GDP:O2B	2.05	0.88
2:D:12:CYS:SG	5:D:501:GDP:O6	2.30	0.88
2:D:11:GLN:N	5:D:501:GDP:O2B	2.05	0.88
2:F:11:GLN:N	5:F:501:GDP:O2B	2.05	0.88
2:F:12:CYS:SG	5:F:501:GDP:O6	2.30	0.88
2:B:12:CYS:SG	5:B:501:GDP:O6	2.30	0.88
1:E:142:GLY:HA3	3:E:501:GTP:H4'	1.53	0.88
1:C:142:GLY:HA3	3:C:501:GTP:H4'	1.53	0.88
2:D:208:TYR:CG	1:E:326:LYS:HD3	2.08	0.88
1:C:258:ASN:N	2:B:397:TRP:CH2	2.22	0.88
1:C:261:PRO:CA	2:B:394:PHE:CZ	2.56	0.88
2:D:391:ARG:CB	1:E:346:TRP:CD2	2.47	0.88
2:D:388:MET:HE2	1:E:347:CYS:CA	2.04	0.88
1:A:209:ILE:HG21	1:A:227:LEU:HG	1.56	0.87
2:D:394:PHE:CZ	1:E:261:PRO:CA	2.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:209:ILE:HG21	1:C:227:LEU:HG	1.57	0.87
1:E:209:ILE:HG21	1:E:227:LEU:HG	1.57	0.87
2:D:397:TRP:CH2	1:E:255:PHE:O	2.26	0.87
1:C:262:TYR:HA	2:B:396:HIS:HD2	1.05	0.86
1:E:144:GLY:CA	3:E:501:GTP:O1G	2.19	0.86
1:C:346:TRP:HE3	2:B:391:ARG:HB2	1.37	0.86
1:C:144:GLY:CA	3:C:501:GTP:O1G	2.19	0.86
1:A:144:GLY:CA	3:A:501:GTP:O1G	2.19	0.86
1:A:145:THR:N	3:A:501:GTP:O1G	2.07	0.86
1:C:145:THR:N	3:C:501:GTP:O1G	2.07	0.86
1:E:145:THR:N	3:E:501:GTP:O1G	2.07	0.86
2:D:170:VAL:HG11	2:D:201:VAL:HG13	1.56	0.86
2:F:170:VAL:HG11	2:F:201:VAL:HG13	1.56	0.86
2:B:170:VAL:HG11	2:B:201:VAL:HG13	1.56	0.86
2:D:391:ARG:HB2	1:E:346:TRP:HE3	1.37	0.85
1:C:347:CYS:SG	2:B:388:MET:CE	2.56	0.85
2:D:211:CYS:HA	2:D:215:LEU:HB2	1.57	0.85
2:B:252:LYS:O	2:B:256:ASN:HB2	1.74	0.85
2:D:252:LYS:O	2:D:256:ASN:HB2	1.74	0.85
2:F:211:CYS:HA	2:F:215:LEU:HB2	1.57	0.85
1:C:326:LYS:HD3	2:B:208:TYR:CG	2.11	0.85
2:D:388:MET:CE	1:E:347:CYS:SG	2.55	0.85
2:F:252:LYS:O	2:F:256:ASN:HB2	1.74	0.85
2:B:211:CYS:HA	2:B:215:LEU:HB2	1.58	0.85
2:D:391:ARG:HD2	1:E:439:THR:OG1	1.77	0.85
2:B:167:PHE:HB3	2:B:202:ILE:HD11	1.59	0.85
2:D:341:PHE:HB3	2:D:348:ASN:HD21	1.42	0.85
2:F:341:PHE:HB3	2:F:348:ASN:HD21	1.42	0.85
1:A:298:PRO:HA	1:A:301:MET:HG2	1.59	0.85
1:C:298:PRO:HA	1:C:301:MET:HG2	1.59	0.85
2:D:167:PHE:HB3	2:D:202:ILE:HD11	1.59	0.85
1:E:298:PRO:HA	1:E:301:MET:HG2	1.59	0.85
2:F:167:PHE:HB3	2:F:202:ILE:HD11	1.59	0.85
2:B:341:PHE:HB3	2:B:348:ASN:HD21	1.42	0.84
1:C:347:CYS:CA	2:B:388:MET:HE2	2.07	0.84
2:B:237:THR:HG23	2:B:240:LEU:HD23	1.59	0.84
2:D:237:THR:HG23	2:D:240:LEU:HD23	1.59	0.84
2:F:237:THR:HG23	2:F:240:LEU:HD23	1.59	0.84
1:C:255:PHE:O	2:B:397:TRP:CH2	2.29	0.84
2:D:169:VAL:HA	2:D:202:ILE:HB	1.59	0.84
2:F:169:VAL:HA	2:F:202:ILE:HB	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:169:VAL:HA	2:B:202:ILE:HB	1.59	0.84
1:C:326:LYS:HB2	2:B:220:PRO:HG3	1.59	0.83
1:A:222:PRO:HD2	2:B:324:LYS:HG2	1.60	0.83
1:C:222:PRO:HD2	2:D:324:LYS:HG2	1.60	0.83
1:E:132:LEU:O	1:E:164:LYS:NZ	2.10	0.83
1:E:222:PRO:HD2	2:F:324:LYS:HG2	1.60	0.83
1:C:132:LEU:O	1:C:164:LYS:NZ	2.10	0.83
1:C:439:THR:OG1	2:B:391:ARG:HD2	1.79	0.83
2:D:220:PRO:HG3	1:E:326:LYS:CB	2.09	0.82
1:C:232:ALA:O	1:C:236:SER:OG	1.98	0.82
1:A:232:ALA:O	1:A:236:SER:OG	1.98	0.82
1:E:232:ALA:O	1:E:236:SER:OG	1.98	0.82
1:E:76:ASP:OD1	1:E:79:ARG:NH1	2.12	0.82
1:A:76:ASP:OD1	1:A:79:ARG:NH1	2.12	0.82
1:C:76:ASP:OD1	1:C:79:ARG:NH1	2.12	0.82
2:D:220:PRO:HG3	1:E:326:LYS:HB2	1.60	0.82
1:A:132:LEU:O	1:A:164:LYS:NZ	2.10	0.82
1:C:326:LYS:CB	2:B:220:PRO:HG3	2.10	0.82
1:E:206:ASN:HA	1:E:209:ILE:HD12	1.62	0.81
1:A:206:ASN:HA	1:A:209:ILE:HD12	1.62	0.81
1:C:206:ASN:HA	1:C:209:ILE:HD12	1.62	0.81
2:B:73:MET:O	2:B:77:ARG:CB	2.28	0.81
1:C:239:THR:HG23	1:C:243:ARG:HE	1.45	0.81
1:E:239:THR:HG23	1:E:243:ARG:HE	1.45	0.81
2:F:51:TYR:O	2:F:62:ARG:NH2	2.13	0.81
2:F:73:MET:O	2:F:77:ARG:CB	2.28	0.81
1:A:239:THR:HG23	1:A:243:ARG:HE	1.45	0.81
2:B:51:TYR:O	2:B:62:ARG:NH2	2.13	0.81
2:D:51:TYR:O	2:D:62:ARG:NH2	2.13	0.81
2:D:73:MET:O	2:D:77:ARG:CB	2.28	0.81
1:C:258:ASN:HA	2:B:394:PHE:CD1	2.15	0.81
2:B:342:VAL:HG21	2:B:345:ILE:HD12	1.62	0.81
2:D:342:VAL:HG21	2:D:345:ILE:HD12	1.62	0.81
2:D:70:PRO:HD3	1:E:1:MET:CE	2.07	0.81
2:F:342:VAL:HG21	2:F:345:ILE:HD12	1.62	0.81
2:D:210:ILE:HD11	2:D:300:MET:HG2	1.60	0.81
2:D:388:MET:HE2	1:E:347:CYS:HB2	1.62	0.81
1:A:325:PRO:O	1:A:329:ASN:HB2	1.80	0.80
1:A:142:GLY:HA3	3:A:501:GTP:C4'	2.10	0.80
2:B:210:ILE:HD11	2:B:300:MET:HG2	1.61	0.80
1:E:142:GLY:HA3	3:E:501:GTP:C4'	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:210:ILE:HD11	2:F:300:MET:HG2	1.61	0.80
1:C:142:GLY:HA3	3:C:501:GTP:C4'	2.10	0.80
1:C:325:PRO:O	1:C:329:ASN:HB2	1.80	0.80
1:E:325:PRO:O	1:E:329:ASN:HB2	1.80	0.80
2:F:64:ILE:HD13	2:F:120:VAL:HG22	1.64	0.80
2:D:64:ILE:HD13	2:D:120:VAL:HG22	1.64	0.80
1:A:286:LEU:O	1:A:373:ARG:NH2	2.14	0.80
2:B:64:ILE:HD13	2:B:120:VAL:HG22	1.64	0.80
1:C:286:LEU:O	1:C:373:ARG:NH2	2.14	0.80
2:D:394:PHE:CE1	1:E:261:PRO:CA	2.65	0.80
1:E:286:LEU:O	1:E:373:ARG:NH2	2.14	0.80
2:D:177:ASP:O	1:E:352:LYS:HA	1.81	0.80
1:C:1:MET:CE	2:B:70:PRO:HD3	2.09	0.80
1:E:11:GLN:N	3:E:501:GTP:O3A	2.13	0.80
1:A:11:GLN:N	3:A:501:GTP:O3A	2.13	0.80
1:C:11:GLN:N	3:C:501:GTP:O3A	2.13	0.80
1:C:236:SER:O	1:C:243:ARG:NH2	2.15	0.80
2:D:394:PHE:CD1	1:E:258:ASN:HA	2.16	0.80
1:A:236:SER:O	1:A:243:ARG:NH2	2.15	0.79
1:E:236:SER:O	1:E:243:ARG:NH2	2.15	0.79
2:D:391:ARG:HB3	1:E:346:TRP:CD2	2.14	0.79
1:A:142:GLY:CA	3:A:501:GTP:H4'	2.12	0.79
2:B:374:ILE:HD12	2:B:378:PHE:HE2	1.47	0.79
1:C:261:PRO:CA	2:B:394:PHE:CE1	2.66	0.79
2:D:176:SER:OG	1:E:349:THR:OG1	2.00	0.79
2:D:396:HIS:HD2	1:E:262:TYR:HA	1.02	0.79
1:E:142:GLY:CA	3:E:501:GTP:H4'	2.12	0.79
2:B:215:LEU:O	2:B:275:SER:OG	2.01	0.79
1:C:349:THR:OG1	2:B:176:SER:OG	2.01	0.79
2:D:215:LEU:O	2:D:275:SER:OG	2.01	0.79
2:D:374:ILE:HD12	2:D:378:PHE:HE2	1.47	0.79
2:F:215:LEU:O	2:F:275:SER:OG	2.01	0.79
2:F:374:ILE:HD12	2:F:378:PHE:HE2	1.47	0.79
1:C:142:GLY:CA	3:C:501:GTP:H4'	2.12	0.79
1:C:346:TRP:CD2	2:B:391:ARG:HB3	2.15	0.79
2:D:70:PRO:HG3	1:E:1:MET:HE3	1.61	0.79
1:C:259:LEU:C	2:B:394:PHE:HZ	1.85	0.79
1:C:352:LYS:HA	2:B:177:ASP:O	1.82	0.79
1:E:319:TYR:HB3	1:E:323:VAL:HG21	1.63	0.79
1:A:15:GLN:HG3	3:A:501:GTP:O6	1.83	0.79
1:C:15:GLN:HG3	3:C:501:GTP:O6	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:15:GLN:HG3	3:E:501:GTP:O6	1.83	0.79
1:A:319:TYR:HB3	1:A:323:VAL:HG21	1.63	0.79
1:C:319:TYR:HB3	1:C:323:VAL:HG21	1.63	0.79
1:C:399:TYR:O	1:C:402:ARG:NH1	2.16	0.79
1:A:399:TYR:O	1:A:402:ARG:NH1	2.16	0.78
1:C:347:CYS:HB2	2:B:388:MET:HE2	1.63	0.78
2:D:410:GLU:O	2:D:414:ASN:CB	2.31	0.78
2:D:394:PHE:HZ	1:E:259:LEU:C	1.85	0.78
1:E:399:TYR:O	1:E:402:ARG:NH1	2.16	0.78
2:F:410:GLU:O	2:F:414:ASN:CB	2.31	0.78
1:C:254:GLU:O	2:B:397:TRP:CZ3	2.37	0.78
2:B:410:GLU:O	2:B:414:ASN:CB	2.31	0.78
2:D:13:GLY:HA2	2:D:16:ILE:HD12	1.63	0.78
2:D:391:ARG:CD	1:E:439:THR:OG1	2.31	0.78
1:E:2:ARG:HD2	1:E:242:LEU:HD22	1.65	0.78
2:F:13:GLY:HA2	2:F:16:ILE:HD12	1.63	0.78
1:A:2:ARG:HD2	1:A:242:LEU:HD22	1.65	0.78
2:B:13:GLY:HA2	2:B:16:ILE:HD12	1.63	0.78
1:C:2:ARG:HD2	1:C:242:LEU:HD22	1.65	0.78
2:D:24:ILE:HA	2:D:27:GLU:HG2	1.65	0.78
2:D:397:TRP:HZ3	1:E:254:GLU:O	1.66	0.78
2:B:24:ILE:HA	2:B:27:GLU:HG2	1.65	0.78
2:D:397:TRP:CZ3	1:E:254:GLU:O	2.37	0.78
2:F:24:ILE:HA	2:F:27:GLU:HG2	1.65	0.78
2:F:53:GLU:HG3	2:F:59:TYR:HE1	1.48	0.78
2:B:53:GLU:HG3	2:B:59:TYR:HE1	1.49	0.78
1:C:1:MET:HE3	2:B:70:PRO:HG3	1.63	0.78
2:D:53:GLU:HG3	2:D:59:TYR:HE1	1.49	0.78
1:A:54:SER:HA	1:A:64:ARG:NH2	2.00	0.77
2:B:289:LEU:HB3	2:B:365:VAL:HG21	1.66	0.77
1:C:54:SER:HA	1:C:64:ARG:NH2	2.00	0.77
2:D:238:CYS:O	2:D:242:PHE:N	2.17	0.77
2:D:289:LEU:HB3	2:D:365:VAL:HG21	1.66	0.77
2:D:394:PHE:CD1	1:E:261:PRO:CA	2.58	0.77
2:F:238:CYS:O	2:F:242:PHE:N	2.17	0.77
2:B:238:CYS:O	2:B:242:PHE:N	2.17	0.77
1:E:54:SER:HA	1:E:64:ARG:NH2	2.00	0.77
2:F:289:LEU:HB3	2:F:365:VAL:HG21	1.66	0.77
1:C:254:GLU:O	2:B:397:TRP:HZ3	1.67	0.77
2:B:14:ASN:HB3	2:B:72:THR:HG21	1.65	0.77
1:C:439:THR:OG1	2:B:391:ARG:CD	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:14:ASN:HB3	2:D:72:THR:HG21	1.65	0.77
1:E:223:THR:HG23	1:E:225:THR:HG22	1.67	0.77
2:F:14:ASN:HB3	2:F:72:THR:HG21	1.65	0.77
1:A:223:THR:HG23	1:A:225:THR:HG22	1.67	0.77
1:C:223:THR:HG23	1:C:225:THR:HG22	1.67	0.77
2:D:208:TYR:HB3	1:E:326:LYS:NZ	1.99	0.77
1:E:72:PRO:HG3	1:E:96:LYS:HA	1.67	0.77
1:A:72:PRO:HG3	1:A:96:LYS:HA	1.67	0.77
1:C:252:ILE:HA	1:C:255:PHE:HD2	1.47	0.77
1:C:72:PRO:HG3	1:C:96:LYS:HA	1.67	0.77
1:A:252:ILE:HA	1:A:255:PHE:HD2	1.47	0.77
1:E:252:ILE:HA	1:E:255:PHE:HD2	1.47	0.77
1:A:54:SER:O	1:A:61:HIS:HA	1.84	0.76
1:C:54:SER:O	1:C:61:HIS:HA	1.84	0.76
1:E:54:SER:O	1:E:61:HIS:HA	1.84	0.76
2:B:138:SER:HA	2:B:169:VAL:H	1.51	0.76
1:C:261:PRO:CA	2:B:394:PHE:CD1	2.60	0.76
2:D:138:SER:HA	2:D:169:VAL:H	1.50	0.76
2:D:234:SER:O	2:D:241:ARG:NH2	2.17	0.76
2:F:138:SER:HA	2:F:169:VAL:H	1.50	0.76
2:B:234:SER:O	2:B:241:ARG:NH2	2.17	0.76
2:B:318:ARG:HB2	2:B:364:ALA:HB3	1.68	0.76
2:D:318:ARG:HB2	2:D:364:ALA:HB3	1.68	0.76
2:F:234:SER:O	2:F:241:ARG:NH2	2.17	0.76
2:F:318:ARG:HB2	2:F:364:ALA:HB3	1.68	0.76
2:B:331:LEU:O	2:B:335:ASN:ND2	2.19	0.76
2:D:331:LEU:O	2:D:335:ASN:ND2	2.19	0.76
2:F:331:LEU:O	2:F:335:ASN:ND2	2.19	0.76
1:C:338:LYS:HG2	1:C:340:THR:HG22	1.68	0.76
1:C:76:ASP:HA	1:C:79:ARG:HB2	1.66	0.76
1:E:76:ASP:HA	1:E:79:ARG:HB2	1.66	0.76
1:A:338:LYS:HG2	1:A:340:THR:HG22	1.68	0.76
1:A:76:ASP:HA	1:A:79:ARG:HB2	1.66	0.76
1:E:338:LYS:HG2	1:E:340:THR:HG22	1.68	0.76
1:A:290:GLU:O	1:A:294:SER:CB	2.34	0.76
1:C:290:GLU:O	1:C:294:SER:CB	2.34	0.76
1:C:326:LYS:NZ	2:B:208:TYR:HB3	2.00	0.76
1:E:290:GLU:O	1:E:294:SER:CB	2.34	0.76
1:C:253:THR:O	1:C:256:GLN:HG2	1.87	0.75
1:C:3:GLU:HB2	1:C:132:LEU:HA	1.67	0.75
1:A:253:THR:O	1:A:256:GLN:HG2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:GLU:HB2	1:A:132:LEU:HA	1.68	0.75
1:E:253:THR:O	1:E:256:GLN:HG2	1.87	0.75
2:D:208:TYR:OH	1:E:325:PRO:HB2	1.85	0.75
1:C:231:ILE:HA	1:C:234:VAL:HG12	1.68	0.75
2:D:175:VAL:CG2	1:E:329:ASN:OD1	2.34	0.75
1:E:231:ILE:HA	1:E:234:VAL:HG12	1.68	0.75
1:E:3:GLU:HB2	1:E:132:LEU:HA	1.68	0.75
1:A:231:ILE:HA	1:A:234:VAL:HG12	1.69	0.75
2:B:140:GLY:O	2:B:184:ASN:ND2	2.16	0.75
2:D:140:GLY:O	2:D:184:ASN:ND2	2.16	0.75
2:F:140:GLY:O	2:F:184:ASN:ND2	2.16	0.75
1:A:10:GLY:HA3	3:A:501:GTP:O1A	1.86	0.75
2:B:344:TRP:O	2:B:346:PRO:HD3	1.87	0.75
1:C:10:GLY:HA3	3:C:501:GTP:O1A	1.86	0.75
2:D:344:TRP:O	2:D:346:PRO:HD3	1.87	0.75
1:E:10:GLY:HA3	3:E:501:GTP:O1A	1.86	0.75
1:A:301:MET:HG3	1:A:307:PRO:HD3	1.68	0.74
1:C:257:THR:C	2:B:394:PHE:CD1	2.59	0.74
1:C:301:MET:HG3	1:C:307:PRO:HD3	1.68	0.74
2:D:208:TYR:CD2	1:E:326:LYS:HD3	2.23	0.74
2:F:344:TRP:O	2:F:346:PRO:HD3	1.87	0.74
1:E:301:MET:HG3	1:E:307:PRO:HD3	1.68	0.74
1:A:167:LEU:HD21	1:A:252:ILE:HD13	1.69	0.74
1:E:167:LEU:HD21	1:E:252:ILE:HD13	1.69	0.74
1:A:254:GLU:O	1:A:258:ASN:ND2	2.21	0.74
1:E:174:SER:OG	1:E:205:ASP:OD1	2.04	0.74
1:E:254:GLU:O	1:E:258:ASN:ND2	2.21	0.74
1:E:311:LYS:HG2	1:E:342:GLN:HB2	1.69	0.74
1:A:174:SER:OG	1:A:205:ASP:OD1	2.04	0.74
1:A:311:LYS:HG2	1:A:342:GLN:HB2	1.69	0.74
1:C:167:LEU:HD21	1:C:252:ILE:HD13	1.69	0.74
1:C:174:SER:OG	1:C:205:ASP:OD1	2.04	0.74
1:C:254:GLU:O	1:C:258:ASN:ND2	2.21	0.74
1:C:311:LYS:HG2	1:C:342:GLN:HB2	1.69	0.74
1:A:139:ASN:OD1	1:A:170:THR:OG1	2.04	0.74
1:C:139:ASN:OD1	1:C:170:THR:OG1	2.04	0.74
2:D:319:GLY:HA2	2:D:357:PRO:HD3	1.68	0.74
1:E:139:ASN:OD1	1:E:170:THR:OG1	2.04	0.74
2:B:319:GLY:HA2	2:B:357:PRO:HD3	1.69	0.74
1:C:325:PRO:HB2	2:B:208:TYR:OH	1.86	0.74
2:F:319:GLY:HA2	2:F:357:PRO:HD3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:6:HIS:O	2:B:64:ILE:N	2.21	0.73
2:D:6:HIS:O	2:D:64:ILE:N	2.21	0.73
2:F:6:HIS:O	2:F:64:ILE:N	2.21	0.73
1:C:329:ASN:OD1	2:B:175:VAL:CG2	2.36	0.73
1:C:257:THR:O	2:B:394:PHE:CE1	2.40	0.73
2:B:318:ARG:O	2:B:364:ALA:N	2.21	0.73
2:D:210:ILE:HA	2:D:214:THR:HG22	1.69	0.73
2:F:210:ILE:HA	2:F:214:THR:HG22	1.68	0.73
2:F:318:ARG:O	2:F:364:ALA:N	2.21	0.73
2:B:210:ILE:HA	2:B:214:THR:HG22	1.69	0.73
1:C:56:THR:HG21	1:C:60:LYS:HB3	1.69	0.73
2:D:318:ARG:O	2:D:364:ALA:N	2.21	0.73
2:F:303:ALA:HB1	2:F:373:ALA:HB3	1.69	0.73
1:A:56:THR:HG21	1:A:60:LYS:HB3	1.69	0.73
2:B:338:SER:HA	2:B:341:PHE:HD2	1.53	0.73
2:D:303:ALA:HB1	2:D:373:ALA:HB3	1.70	0.73
2:D:262:ARG:O	2:D:422:TYR:OH	2.05	0.73
1:E:56:THR:HG21	1:E:60:LYS:HB3	1.69	0.73
2:F:338:SER:HA	2:F:341:PHE:HD2	1.52	0.73
2:B:303:ALA:HB1	2:B:373:ALA:HB3	1.70	0.73
2:B:262:ARG:O	2:B:422:TYR:OH	2.05	0.73
2:D:338:SER:HA	2:D:341:PHE:HD2	1.53	0.73
2:F:262:ARG:O	2:F:422:TYR:OH	2.05	0.73
1:C:292:THR:HG21	1:C:331:SER:HB3	1.69	0.73
1:A:292:THR:HG21	1:A:331:SER:HB3	1.69	0.73
1:E:292:THR:HG21	1:E:331:SER:HB3	1.69	0.73
1:A:56:THR:OG1	1:A:58:ALA:O	2.07	0.72
1:C:56:THR:OG1	1:C:58:ALA:O	2.07	0.72
1:E:56:THR:OG1	1:E:58:ALA:O	2.07	0.72
1:C:7:ILE:HD12	1:C:137:VAL:HG22	1.71	0.72
1:E:7:ILE:HD12	1:E:137:VAL:HG22	1.71	0.72
1:A:7:ILE:HD12	1:A:137:VAL:HG22	1.71	0.72
1:A:83:TYR:HB3	1:A:86:LEU:HB3	1.72	0.72
2:B:97:ALA:O	2:B:103:LYS:HD2	1.90	0.72
1:E:83:TYR:HB3	1:E:86:LEU:HB3	1.72	0.72
2:F:97:ALA:O	2:F:103:LYS:HD2	1.90	0.72
2:D:97:ALA:O	2:D:103:LYS:HD2	1.90	0.72
1:C:326:LYS:HD3	2:B:208:TYR:CD2	2.25	0.72
1:C:83:TYR:HB3	1:C:86:LEU:HB3	1.72	0.72
1:E:223:THR:CG2	1:E:225:THR:HG22	2.20	0.72
1:A:223:THR:CG2	1:A:225:THR:HG22	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:223:THR:CG2	1:C:225:THR:HG22	2.20	0.72
1:A:120:ASP:OD1	1:A:123:ARG:NH2	2.23	0.72
1:A:200:VAL:HA	1:A:266:HIS:HD1	1.54	0.72
1:A:415:GLU:HA	1:A:418:PHE:HD2	1.55	0.72
1:C:120:ASP:OD1	1:C:123:ARG:NH2	2.23	0.72
1:C:415:GLU:HA	1:C:418:PHE:HD2	1.55	0.72
1:E:120:ASP:OD1	1:E:123:ARG:NH2	2.23	0.72
1:E:415:GLU:HA	1:E:418:PHE:HD2	1.55	0.72
1:C:200:VAL:HA	1:C:266:HIS:HD1	1.54	0.72
1:C:75:ILE:HG23	1:C:79:ARG:NH1	2.05	0.72
1:E:200:VAL:HA	1:E:266:HIS:HD1	1.54	0.72
1:E:33:ASP:HA	1:E:85:GLN:HB2	1.72	0.72
1:E:75:ILE:HG23	1:E:79:ARG:NH1	2.05	0.72
1:A:75:ILE:HG23	1:A:79:ARG:NH1	2.05	0.71
1:A:33:ASP:HA	1:A:85:GLN:HB2	1.72	0.71
1:C:290:GLU:O	1:C:294:SER:OG	2.06	0.71
2:D:394:PHE:CD1	1:E:257:THR:C	2.62	0.71
1:A:290:GLU:O	1:A:294:SER:OG	2.06	0.71
2:B:6:HIS:NE2	2:B:8:GLN:HB3	2.05	0.71
1:C:33:ASP:HA	1:C:85:GLN:HB2	1.72	0.71
2:D:6:HIS:NE2	2:D:8:GLN:HB3	2.05	0.71
1:E:290:GLU:O	1:E:294:SER:OG	2.06	0.71
2:F:6:HIS:NE2	2:F:8:GLN:HB3	2.05	0.71
1:A:319:TYR:HE1	1:A:375:VAL:HG23	1.55	0.71
1:C:319:TYR:HE1	1:C:375:VAL:HG23	1.55	0.71
1:A:145:THR:HG23	1:A:149:LEU:HB3	1.70	0.71
2:B:113:ILE:HD12	2:B:147:MET:HE3	1.73	0.71
2:D:397:TRP:HA	1:E:257:THR:HG21	1.73	0.71
1:E:319:TYR:HE1	1:E:375:VAL:HG23	1.55	0.71
1:A:93:ILE:HD13	1:A:117:LEU:HG	1.71	0.71
1:C:107:HIS:HD2	1:C:151:SER:HB2	1.55	0.71
2:D:113:ILE:HD12	2:D:147:MET:HE3	1.73	0.71
1:E:93:ILE:HD13	1:E:117:LEU:HG	1.71	0.71
1:A:107:HIS:HD2	1:A:151:SER:HB2	1.55	0.71
2:B:210:ILE:HG22	2:B:215:LEU:HD13	1.73	0.71
2:B:246:LEU:HB3	2:B:353:ILE:HG22	1.71	0.71
1:C:93:ILE:HD13	1:C:117:LEU:HG	1.71	0.71
2:D:101:TRP:CD1	2:D:146:GLY:HA2	2.26	0.71
2:D:210:ILE:HG22	2:D:215:LEU:HD13	1.73	0.71
1:E:107:HIS:HD2	1:E:151:SER:HB2	1.55	0.71
1:E:145:THR:HG23	1:E:149:LEU:HB3	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:210:ILE:HG22	2:F:215:LEU:HD13	1.73	0.71
2:B:101:TRP:CD1	2:B:146:GLY:HA2	2.26	0.71
1:C:145:THR:HG23	1:C:149:LEU:HB3	1.70	0.71
2:F:101:TRP:CD1	2:F:146:GLY:HA2	2.26	0.71
2:F:130:LEU:O	2:F:162:ARG:NH1	2.24	0.71
1:A:24:PHE:HE1	1:A:236:SER:HA	1.56	0.71
1:A:71:GLU:CD	3:A:501:GTP:O2G	2.29	0.71
2:B:130:LEU:O	2:B:162:ARG:NH1	2.24	0.71
2:D:130:LEU:O	2:D:162:ARG:NH1	2.24	0.71
2:D:246:LEU:HB3	2:D:353:ILE:HG22	1.72	0.71
2:F:246:LEU:HB3	2:F:353:ILE:HG22	1.72	0.71
2:B:318:ARG:HB3	2:B:357:PRO:HA	1.73	0.71
1:C:71:GLU:CD	3:C:501:GTP:O2G	2.29	0.71
1:E:24:PHE:HE1	1:E:236:SER:HA	1.56	0.71
1:E:71:GLU:CD	3:E:501:GTP:O2G	2.29	0.71
2:F:318:ARG:HB3	2:F:357:PRO:HA	1.73	0.71
1:A:306:ASP:OD2	1:A:309:HIS:N	2.24	0.70
2:B:210:ILE:HG22	2:B:215:LEU:CD1	2.21	0.70
1:C:24:PHE:HE1	1:C:236:SER:HA	1.56	0.70
1:C:306:ASP:OD2	1:C:309:HIS:N	2.24	0.70
1:C:326:LYS:HB2	2:B:220:PRO:CG	2.20	0.70
2:D:210:ILE:HG22	2:D:215:LEU:CD1	2.21	0.70
2:D:220:PRO:CG	1:E:326:LYS:HB2	2.21	0.70
2:D:318:ARG:HB3	2:D:357:PRO:HA	1.73	0.70
1:E:306:ASP:OD2	1:E:309:HIS:N	2.24	0.70
2:F:210:ILE:HG22	2:F:215:LEU:CD1	2.22	0.70
2:B:165:GLU:HA	2:B:198:GLU:HB2	1.73	0.70
2:B:190:HIS:HA	2:B:414:ASN:HD21	1.55	0.70
2:B:30:ILE:HG12	2:B:36:TYR:HA	1.72	0.70
2:F:30:ILE:HG12	2:F:36:TYR:HA	1.72	0.70
2:D:30:ILE:HG12	2:D:36:TYR:HA	1.72	0.70
2:D:190:HIS:HA	2:D:414:ASN:HD21	1.55	0.70
2:F:113:ILE:HD12	2:F:147:MET:HE3	1.74	0.70
2:F:165:GLU:HA	2:F:198:GLU:HB2	1.73	0.70
1:C:257:THR:HG21	2:B:397:TRP:HA	1.74	0.70
2:D:165:GLU:HA	2:D:198:GLU:HB2	1.73	0.70
2:F:107:THR:OG1	2:F:401:GLU:OE1	2.10	0.70
2:F:190:HIS:HA	2:F:414:ASN:HD21	1.55	0.70
2:B:203:ASP:OD2	2:B:205:GLU:N	2.24	0.70
2:D:203:ASP:OD2	2:D:205:GLU:N	2.24	0.70
2:D:107:THR:OG1	2:D:401:GLU:OE1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:203:ASP:OD2	2:F:205:GLU:N	2.24	0.70
2:B:107:THR:OG1	2:B:401:GLU:OE1	2.10	0.70
2:D:394:PHE:CE1	1:E:257:THR:O	2.43	0.70
2:F:152:ILE:O	2:F:156:ARG:HB2	1.91	0.70
2:B:152:ILE:O	2:B:156:ARG:HB2	1.91	0.70
2:D:152:ILE:O	2:D:156:ARG:HB2	1.91	0.70
2:D:350:LYS:NZ	2:D:351:SER:O	2.19	0.70
2:D:176:SER:CB	1:E:349:THR:OG1	2.39	0.70
2:F:350:LYS:NZ	2:F:351:SER:O	2.19	0.70
1:A:268:MET:HG3	1:A:378:ILE:HG23	1.73	0.70
2:B:350:LYS:NZ	2:B:351:SER:O	2.20	0.70
2:B:375:GLN:HE21	2:B:422:TYR:HB3	1.57	0.70
1:C:268:MET:HG3	1:C:378:ILE:HG23	1.73	0.70
2:D:375:GLN:HE21	2:D:422:TYR:HB3	1.57	0.70
1:E:268:MET:HG3	1:E:378:ILE:HG23	1.73	0.70
1:A:429:GLU:O	1:A:433:GLU:HB2	1.92	0.69
1:C:11:GLN:CA	3:C:501:GTP:O2A	2.40	0.69
1:E:11:GLN:CA	3:E:501:GTP:O2A	2.40	0.69
2:F:375:GLN:HE21	2:F:422:TYR:HB3	1.57	0.69
1:A:11:GLN:CA	3:A:501:GTP:O2A	2.40	0.69
1:C:258:ASN:C	2:B:394:PHE:HE1	1.91	0.69
1:E:429:GLU:O	1:E:433:GLU:HB2	1.92	0.69
2:F:73:MET:HE2	2:F:92:PHE:HB3	1.73	0.69
1:C:429:GLU:O	1:C:433:GLU:HB2	1.92	0.69
2:D:73:MET:HE2	2:D:92:PHE:HB3	1.73	0.69
2:D:208:TYR:CD2	1:E:326:LYS:CD	2.75	0.69
2:D:208:TYR:CB	1:E:326:LYS:NZ	2.55	0.69
1:E:9:VAL:HB	1:E:139:ASN:HB3	1.73	0.69
2:B:73:MET:HE2	2:B:92:PHE:HB3	1.73	0.69
1:C:9:VAL:HB	1:C:139:ASN:HB3	1.73	0.69
1:A:9:VAL:HB	1:A:139:ASN:HB3	1.73	0.69
2:B:263:LEU:HA	2:B:422:TYR:OH	1.93	0.69
2:D:397:TRP:CZ2	1:E:255:PHE:O	2.45	0.69
2:F:263:LEU:HA	2:F:422:TYR:OH	1.93	0.69
2:F:386:THR:O	2:F:390:ARG:HG2	1.93	0.69
2:B:386:THR:O	2:B:390:ARG:HG2	1.93	0.69
2:D:386:THR:O	2:D:390:ARG:HG2	1.93	0.69
2:D:263:LEU:HA	2:D:422:TYR:OH	1.93	0.69
2:D:70:PRO:CG	1:E:1:MET:HE1	2.14	0.69
2:D:394:PHE:HE1	1:E:258:ASN:C	1.90	0.69
1:A:287:SER:OG	1:A:290:GLU:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:166:THR:O	2:B:199:CYS:HA	1.93	0.68
1:C:287:SER:OG	1:C:290:GLU:N	2.26	0.68
2:D:166:THR:O	2:D:199:CYS:HA	1.93	0.68
1:E:287:SER:OG	1:E:290:GLU:N	2.26	0.68
2:F:166:THR:O	2:F:199:CYS:HA	1.93	0.68
1:A:54:SER:HB3	1:A:62:VAL:HG22	1.74	0.68
1:C:54:SER:HB3	1:C:62:VAL:HG22	1.74	0.68
2:D:335:ASN:O	2:D:338:SER:OG	2.11	0.68
1:E:54:SER:HB3	1:E:62:VAL:HG22	1.74	0.68
2:F:335:ASN:O	2:F:338:SER:OG	2.11	0.68
1:A:290:GLU:O	1:A:294:SER:HB2	1.92	0.68
1:E:290:GLU:O	1:E:294:SER:HB2	1.92	0.68
2:B:199:CYS:HB2	2:B:265:PHE:HD1	1.59	0.68
2:B:201:VAL:HB	2:B:301:CYS:SG	2.33	0.68
2:B:335:ASN:O	2:B:338:SER:OG	2.11	0.68
1:C:119:LEU:HD11	1:C:156:ARG:HD2	1.75	0.68
1:C:258:ASN:HA	2:B:394:PHE:CE1	2.27	0.68
1:C:290:GLU:O	1:C:294:SER:HB2	1.92	0.68
2:D:199:CYS:HB2	2:D:265:PHE:HD1	1.59	0.68
2:D:201:VAL:HB	2:D:301:CYS:SG	2.33	0.68
2:F:199:CYS:HB2	2:F:265:PHE:HD1	1.59	0.68
2:F:201:VAL:HB	2:F:301:CYS:SG	2.33	0.68
1:A:119:LEU:HD11	1:A:156:ARG:HD2	1.75	0.68
2:B:271:ALA:HB1	2:B:272:PRO:HA	1.76	0.68
1:C:255:PHE:O	2:B:397:TRP:CZ2	2.46	0.68
2:D:271:ALA:HB1	2:D:272:PRO:HA	1.76	0.68
1:E:119:LEU:HD11	1:E:156:ARG:HD2	1.75	0.68
1:E:190:SER:O	1:E:194:LEU:N	2.26	0.68
2:F:271:ALA:HB1	2:F:272:PRO:HA	1.76	0.68
1:A:190:SER:O	1:A:194:LEU:N	2.26	0.68
1:A:275:ILE:HA	1:A:368:LEU:CD1	2.22	0.68
2:B:48:ASN:O	2:B:62:ARG:NH2	2.27	0.68
1:C:190:SER:O	1:C:194:LEU:N	2.26	0.68
2:D:48:ASN:O	2:D:62:ARG:NH2	2.27	0.68
2:F:48:ASN:O	2:F:62:ARG:NH2	2.27	0.68
2:B:156:ARG:NH2	2:B:159:TYR:O	2.27	0.68
2:B:12:CYS:SG	5:B:501:GDP:N7	2.51	0.68
2:B:5:VAL:HG22	2:B:62:ARG:HG2	1.76	0.68
1:C:326:LYS:NZ	2:B:208:TYR:CB	2.57	0.68
1:C:349:THR:OG1	2:B:176:SER:CB	2.40	0.68
1:C:275:ILE:HA	1:C:368:LEU:CD1	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:156:ARG:NH2	2:D:159:TYR:O	2.27	0.68
2:F:156:ARG:NH2	2:F:159:TYR:O	2.27	0.68
1:A:54:SER:N	1:A:62:VAL:O	2.26	0.68
1:C:54:SER:N	1:C:62:VAL:O	2.26	0.68
2:D:12:CYS:SG	5:D:501:GDP:N7	2.51	0.68
2:D:5:VAL:HG22	2:D:62:ARG:HG2	1.76	0.68
1:E:200:VAL:HG23	1:E:266:HIS:O	1.94	0.68
1:E:310:GLY:HA3	1:E:383:ALA:HB2	1.76	0.68
1:E:275:ILE:HA	1:E:368:LEU:CD1	2.23	0.68
2:F:5:VAL:HG22	2:F:62:ARG:HG2	1.76	0.68
1:A:200:VAL:HG23	1:A:266:HIS:O	1.94	0.67
1:A:310:GLY:HA3	1:A:383:ALA:HB2	1.76	0.67
1:C:200:VAL:HG23	1:C:266:HIS:O	1.94	0.67
1:C:310:GLY:HA3	1:C:383:ALA:HB2	1.76	0.67
1:E:54:SER:N	1:E:62:VAL:O	2.26	0.67
1:A:258:ASN:OD1	1:A:259:LEU:N	2.27	0.67
1:E:258:ASN:OD1	1:E:259:LEU:N	2.27	0.67
2:F:12:CYS:SG	5:F:501:GDP:N7	2.52	0.67
1:A:101:ASN:ND2	1:A:142:GLY:O	2.27	0.67
1:A:2:ARG:O	1:A:51:THR:HG22	1.95	0.67
1:C:258:ASN:OD1	1:C:259:LEU:N	2.27	0.67
1:C:2:ARG:O	1:C:51:THR:HG22	1.95	0.67
2:B:209:ASP:OD1	2:B:213:ARG:NH1	2.26	0.67
2:B:289:LEU:O	2:B:293:MET:HG3	1.93	0.67
1:C:101:ASN:ND2	1:C:142:GLY:O	2.27	0.67
2:D:209:ASP:OD1	2:D:213:ARG:NH1	2.27	0.67
1:E:2:ARG:O	1:E:51:THR:HG22	1.95	0.67
2:F:209:ASP:OD1	2:F:213:ARG:NH1	2.27	0.67
2:F:405:GLU:HA	2:F:408:PHE:HD2	1.60	0.67
2:B:405:GLU:HA	2:B:408:PHE:HD2	1.60	0.67
1:E:101:ASN:ND2	1:E:142:GLY:O	2.27	0.67
2:D:388:MET:HE2	1:E:347:CYS:CB	2.11	0.67
1:C:407:TRP:CG	2:D:255:VAL:HG13	2.30	0.67
2:D:289:LEU:O	2:D:293:MET:HG3	1.93	0.67
2:D:405:GLU:HA	2:D:408:PHE:HD2	1.60	0.67
2:D:372:THR:HG21	2:D:426:GLN:HB2	1.77	0.67
2:D:178:THR:CA	1:E:351:PHE:O	2.41	0.67
1:E:407:TRP:CG	2:F:255:VAL:HG13	2.30	0.67
2:F:289:LEU:O	2:F:293:MET:HG3	1.93	0.67
2:F:372:THR:HG21	2:F:426:GLN:HB2	1.77	0.67
1:A:407:TRP:CG	2:B:255:VAL:HG13	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:372:THR:HG21	2:B:426:GLN:HB2	1.77	0.67
2:B:68:LEU:O	2:B:96:GLY:N	2.28	0.67
2:D:68:LEU:O	2:D:96:GLY:N	2.28	0.67
2:F:68:LEU:O	2:F:96:GLY:N	2.28	0.67
2:D:152:ILE:O	2:D:156:ARG:CB	2.43	0.67
2:D:208:TYR:HB3	1:E:326:LYS:CE	2.25	0.67
1:E:407:TRP:CE2	2:F:255:VAL:HA	2.30	0.67
1:A:407:TRP:CE2	2:B:255:VAL:HA	2.30	0.67
2:B:152:ILE:O	2:B:156:ARG:CB	2.43	0.67
1:C:62:VAL:HB	1:C:91:GLN:HE22	1.60	0.67
2:F:152:ILE:O	2:F:156:ARG:CB	2.43	0.67
1:C:326:LYS:CD	2:B:208:TYR:CD2	2.78	0.67
2:B:388:MET:O	2:B:392:LYS:N	2.28	0.67
1:C:407:TRP:CE2	2:D:255:VAL:HA	2.30	0.67
2:D:388:MET:O	2:D:392:LYS:N	2.28	0.67
1:E:344:VAL:HG23	1:E:347:CYS:HB3	1.77	0.67
1:E:62:VAL:HB	1:E:91:GLN:HE22	1.60	0.67
2:F:388:MET:O	2:F:392:LYS:N	2.28	0.67
1:A:166:LYS:HB2	1:A:199:ASP:CB	2.26	0.66
1:A:344:VAL:HG23	1:A:347:CYS:HB3	1.77	0.66
1:A:62:VAL:HB	1:A:91:GLN:HE22	1.60	0.66
2:B:10:GLY:O	2:B:14:ASN:ND2	2.28	0.66
1:C:166:LYS:HB2	1:C:199:ASP:CB	2.26	0.66
1:C:344:VAL:HG23	1:C:347:CYS:HB3	1.77	0.66
2:F:10:GLY:O	2:F:14:ASN:ND2	2.28	0.66
2:D:10:GLY:O	2:D:14:ASN:ND2	2.28	0.66
1:E:166:LYS:HB2	1:E:199:ASP:CB	2.26	0.66
1:C:273:ALA:HB1	1:C:274:PRO:HA	1.76	0.66
2:F:411:ALA:HA	2:F:414:ASN:HD22	1.58	0.66
1:A:273:ALA:HB1	1:A:274:PRO:HA	1.76	0.66
2:B:3:GLU:N	2:B:3:GLU:OE1	2.29	0.66
2:B:411:ALA:HA	2:B:414:ASN:HD22	1.58	0.66
2:D:411:ALA:HA	2:D:414:ASN:HD22	1.58	0.66
1:E:273:ALA:HB1	1:E:274:PRO:HA	1.77	0.66
1:A:211:ASP:OD1	1:A:214:ARG:NH2	2.29	0.66
1:C:211:ASP:OD1	1:C:214:ARG:NH2	2.29	0.66
2:D:3:GLU:OE1	2:D:3:GLU:N	2.29	0.66
1:E:211:ASP:OD1	1:E:214:ARG:NH2	2.29	0.66
2:F:3:GLU:N	2:F:3:GLU:OE1	2.29	0.66
2:B:74:ASP:HA	2:B:77:ARG:HB3	1.75	0.66
2:F:74:ASP:HA	2:F:77:ARG:HB3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:PHE:O	1:A:107:HIS:HB3	1.95	0.66
1:A:183:GLU:HA	1:A:186:ASN:ND2	2.11	0.66
1:C:183:GLU:HA	1:C:186:ASN:ND2	2.11	0.66
1:C:30:ILE:HD12	1:C:36:MET:HB2	1.76	0.66
2:D:74:ASP:HA	2:D:77:ARG:HB3	1.75	0.66
1:E:103:PHE:O	1:E:107:HIS:HB3	1.95	0.66
1:E:183:GLU:HA	1:E:186:ASN:ND2	2.11	0.66
1:E:11:GLN:NE2	2:F:244:GLY:O	2.29	0.66
1:A:30:ILE:HD12	1:A:36:MET:HB2	1.76	0.66
2:B:105:HIS:O	2:B:150:LEU:HD11	1.96	0.66
2:B:237:THR:O	2:B:241:ARG:N	2.29	0.66
1:A:11:GLN:NE2	2:B:244:GLY:O	2.29	0.66
1:C:103:PHE:O	1:C:107:HIS:HB3	1.95	0.66
1:C:12:GLY:HA2	3:C:501:GTP:C6	2.27	0.66
2:D:105:HIS:O	2:D:150:LEU:HD11	1.96	0.66
2:D:237:THR:O	2:D:241:ARG:N	2.29	0.66
1:C:11:GLN:NE2	2:D:244:GLY:O	2.29	0.66
2:D:54:ALA:N	2:D:58:ARG:O	2.28	0.66
1:E:30:ILE:HD12	1:E:36:MET:HB2	1.76	0.66
2:F:105:HIS:O	2:F:150:LEU:HD11	1.96	0.66
2:F:237:THR:O	2:F:241:ARG:N	2.29	0.66
2:F:54:ALA:N	2:F:58:ARG:O	2.28	0.66
1:A:12:GLY:HA2	3:A:501:GTP:C6	2.27	0.66
2:B:54:ALA:N	2:B:58:ARG:O	2.28	0.66
2:D:215:LEU:HD11	2:D:273:LEU:HD12	1.77	0.66
1:E:12:GLY:HA2	3:E:501:GTP:C6	2.27	0.66
2:B:215:LEU:HD11	2:B:273:LEU:HD12	1.77	0.66
2:B:318:ARG:CB	2:B:357:PRO:HA	2.26	0.66
2:D:318:ARG:CB	2:D:357:PRO:HA	2.26	0.66
2:F:215:LEU:HD11	2:F:273:LEU:HD12	1.77	0.66
2:F:318:ARG:CB	2:F:357:PRO:HA	2.26	0.66
1:A:5:ILE:HG22	1:A:64:ARG:HB3	1.77	0.65
2:B:257:LEU:HD12	2:B:312:THR:HG21	1.77	0.65
1:C:1:MET:HE1	2:B:70:PRO:CG	2.17	0.65
1:C:263:PRO:N	2:B:396:HIS:CD2	2.64	0.65
1:C:70:LEU:HD23	1:C:95:GLY:HA3	1.76	0.65
2:D:257:LEU:HD12	2:D:312:THR:HG21	1.77	0.65
2:D:394:PHE:CE1	1:E:258:ASN:HA	2.29	0.65
2:D:394:PHE:CZ	1:E:259:LEU:C	2.70	0.65
2:F:257:LEU:HD12	2:F:312:THR:HG21	1.77	0.65
1:A:70:LEU:HD23	1:A:95:GLY:HA3	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:MET:HG3	2:B:92:PHE:HB3	1.78	0.65
1:C:5:ILE:HG22	1:C:64:ARG:HB3	1.77	0.65
2:D:296:ALA:HA	2:D:299:MET:CG	2.27	0.65
2:D:1:MET:N	2:D:3:GLU:OE1	2.28	0.65
2:D:73:MET:HG3	2:D:92:PHE:HB3	1.78	0.65
1:E:5:ILE:HG22	1:E:64:ARG:HB3	1.77	0.65
2:F:1:MET:N	2:F:3:GLU:OE1	2.28	0.65
1:A:10:GLY:CA	3:A:501:GTP:O1A	2.44	0.65
2:B:1:MET:N	2:B:3:GLU:OE1	2.28	0.65
2:B:296:ALA:HA	2:B:299:MET:CG	2.27	0.65
1:C:10:GLY:CA	3:C:501:GTP:O1A	2.44	0.65
2:D:296:ALA:HA	2:D:299:MET:HG2	1.78	0.65
2:D:396:HIS:CD2	1:E:263:PRO:N	2.64	0.65
1:E:10:GLY:CA	3:E:501:GTP:O1A	2.44	0.65
2:F:296:ALA:HA	2:F:299:MET:CG	2.27	0.65
2:F:73:MET:HG3	2:F:92:PHE:HB3	1.78	0.65
1:A:271:SER:HA	1:A:302:MET:CG	2.27	0.65
1:A:359:PRO:HB3	1:A:372:MET:O	1.96	0.65
2:B:230:SER:O	2:B:234:SER:HB3	1.96	0.65
2:B:296:ALA:HA	2:B:299:MET:HG2	1.78	0.65
2:D:230:SER:O	2:D:234:SER:HB3	1.97	0.65
1:E:271:SER:HA	1:E:302:MET:CG	2.27	0.65
1:E:359:PRO:HB3	1:E:372:MET:O	1.96	0.65
1:E:6:SER:HA	1:E:136:LEU:HB2	1.78	0.65
1:E:70:LEU:HD23	1:E:95:GLY:HA3	1.77	0.65
2:F:230:SER:O	2:F:234:SER:HB3	1.96	0.65
2:F:296:ALA:HA	2:F:299:MET:HG2	1.79	0.65
1:A:6:SER:HA	1:A:136:LEU:HB2	1.78	0.65
2:B:356:ILE:HG22	2:B:357:PRO:O	1.96	0.65
1:C:271:SER:HA	1:C:302:MET:CG	2.27	0.65
1:C:359:PRO:HB3	1:C:372:MET:O	1.96	0.65
2:D:19:LYS:HE2	2:D:227:HIS:HB2	1.79	0.65
1:A:298:PRO:HA	1:A:301:MET:CG	2.25	0.65
2:B:196:ALA:O	2:B:264:HIS:NE2	2.30	0.65
2:B:99:ASN:OD1	5:B:501:GDP:O3B	2.15	0.65
1:C:298:PRO:HA	1:C:301:MET:CG	2.25	0.65
2:D:196:ALA:O	2:D:264:HIS:NE2	2.30	0.65
2:D:356:ILE:HG22	2:D:357:PRO:O	1.97	0.65
2:D:99:ASN:OD1	5:D:501:GDP:O3B	2.15	0.65
1:E:298:PRO:HA	1:E:301:MET:CG	2.25	0.65
2:F:356:ILE:HG22	2:F:357:PRO:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:99:ASN:OD1	5:F:501:GDP:O3B	2.15	0.65
2:B:19:LYS:HE2	2:B:227:HIS:HB2	1.79	0.65
1:C:6:SER:HA	1:C:136:LEU:HB2	1.78	0.65
1:E:155:GLU:HA	1:E:197:HIS:ND1	2.11	0.65
2:F:196:ALA:O	2:F:264:HIS:NE2	2.30	0.65
2:F:19:LYS:HE2	2:F:227:HIS:HB2	1.79	0.65
1:A:172:TYR:CD1	1:A:173:PRO:HD2	2.31	0.65
1:C:172:TYR:CD1	1:C:173:PRO:HD2	2.31	0.65
1:A:155:GLU:HA	1:A:197:HIS:ND1	2.11	0.65
2:B:295:ASP:OD2	2:B:298:ASN:N	2.30	0.65
1:C:155:GLU:HA	1:C:197:HIS:ND1	2.11	0.65
1:E:172:TYR:CD1	1:E:173:PRO:HD2	2.31	0.65
2:F:295:ASP:OD2	2:F:298:ASN:N	2.30	0.65
2:B:31:ASP:OD2	2:B:33:THR:HB	1.97	0.65
1:C:351:PHE:O	2:B:178:THR:CA	2.44	0.65
2:D:295:ASP:OD2	2:D:298:ASN:N	2.30	0.65
2:D:31:ASP:OD2	2:D:33:THR:HB	1.97	0.65
2:F:31:ASP:OD2	2:F:33:THR:HB	1.97	0.65
1:A:269:LEU:CD1	1:A:303:ALA:HB3	2.27	0.64
2:F:113:ILE:HA	2:F:147:MET:HE3	1.78	0.64
1:A:181:VAL:HG12	1:A:398:MET:HE1	1.78	0.64
1:C:326:LYS:CE	2:B:208:TYR:HB3	2.27	0.64
1:C:269:LEU:CD1	1:C:303:ALA:HB3	2.28	0.64
1:C:181:VAL:HG12	1:C:398:MET:HE1	1.78	0.64
2:D:2:ARG:HA	2:D:131:GLN:HB2	1.79	0.64
1:E:269:LEU:CD1	1:E:303:ALA:HB3	2.28	0.64
1:E:181:VAL:HG12	1:E:398:MET:HE1	1.78	0.64
2:B:358:PRO:CD	2:B:364:ALA:HB2	2.27	0.64
2:B:372:THR:OG1	2:B:422:TYR:HB3	1.97	0.64
1:C:347:CYS:CB	2:B:388:MET:HE2	2.14	0.64
2:D:8:GLN:NE2	2:D:14:ASN:O	2.30	0.64
2:D:358:PRO:CD	2:D:364:ALA:HB2	2.27	0.64
2:D:372:THR:OG1	2:D:422:TYR:HB3	1.97	0.64
2:F:8:GLN:NE2	2:F:14:ASN:O	2.30	0.64
2:F:2:ARG:HA	2:F:131:GLN:HB2	1.79	0.64
2:F:358:PRO:CD	2:F:364:ALA:HB2	2.27	0.64
2:B:8:GLN:NE2	2:B:14:ASN:O	2.30	0.64
2:B:2:ARG:HA	2:B:131:GLN:HB2	1.79	0.64
2:F:372:THR:OG1	2:F:422:TYR:HB3	1.97	0.64
1:C:257:THR:C	2:B:394:PHE:CE1	2.70	0.64
2:D:397:TRP:CZ3	1:E:258:ASN:N	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:63:PRO:HG2	1:E:87:PHE:HE1	1.62	0.64
1:A:21:TRP:CZ3	1:A:63:PRO:HB3	2.33	0.64
1:A:63:PRO:HG2	1:A:87:PHE:HE1	1.62	0.64
1:C:63:PRO:HG2	1:C:87:PHE:HE1	1.62	0.64
1:E:21:TRP:CZ3	1:E:63:PRO:HB3	2.33	0.64
1:C:21:TRP:CZ3	1:C:63:PRO:HB3	2.33	0.64
2:B:222:TYR:CE1	5:B:501:GDP:C2	2.51	0.64
2:D:31:ASP:OD1	2:D:35:THR:N	2.29	0.64
2:F:31:ASP:OD1	2:F:35:THR:N	2.29	0.64
1:A:175:PRO:HA	1:A:390:ARG:NH2	2.13	0.64
1:A:81:GLY:O	1:A:84:ARG:HD2	1.98	0.64
2:B:31:ASP:OD1	2:B:35:THR:N	2.29	0.64
1:C:81:GLY:O	1:C:84:ARG:HD2	1.98	0.64
2:D:394:PHE:CE1	1:E:261:PRO:N	2.65	0.64
1:E:81:GLY:O	1:E:84:ARG:HD2	1.98	0.64
2:F:156:ARG:NH1	2:F:197:ASP:OD2	2.31	0.64
3:A:501:GTP:O2G	4:A:502:MG:MG	1.40	0.63
2:B:156:ARG:NH1	2:B:197:ASP:OD2	2.31	0.63
2:B:200:MET:HG2	2:B:266:PHE:HB2	1.80	0.63
2:B:318:ARG:HB2	2:B:364:ALA:CB	2.27	0.63
1:C:175:PRO:HA	1:C:390:ARG:NH2	2.13	0.63
3:C:501:GTP:O2G	4:C:502:MG:MG	1.40	0.63
2:D:156:ARG:NH1	2:D:197:ASP:OD2	2.31	0.63
2:D:200:MET:HG2	2:D:266:PHE:HB2	1.80	0.63
2:D:222:TYR:CE1	5:D:501:GDP:C2	2.51	0.63
1:E:175:PRO:HA	1:E:390:ARG:NH2	2.13	0.63
3:E:501:GTP:O2G	4:E:502:MG:MG	1.40	0.63
2:F:200:MET:HG2	2:F:266:PHE:HB2	1.80	0.63
2:F:318:ARG:HB2	2:F:364:ALA:CB	2.27	0.63
2:F:222:TYR:CE1	5:F:501:GDP:C2	2.51	0.63
1:A:239:THR:HG23	1:A:243:ARG:NE	2.12	0.63
1:C:105:ARG:O	1:C:110:ILE:N	2.31	0.63
1:C:210:TYR:CG	2:D:324:LYS:HD3	2.33	0.63
1:C:239:THR:HG23	1:C:243:ARG:NE	2.12	0.63
2:D:318:ARG:HB2	2:D:364:ALA:CB	2.27	0.63
1:E:114:ILE:HD11	1:E:149:LEU:HD11	1.81	0.63
1:E:239:THR:HG23	1:E:243:ARG:NE	2.12	0.63
1:A:105:ARG:O	1:A:110:ILE:N	2.31	0.63
1:A:114:ILE:HD11	1:A:149:LEU:HD11	1.81	0.63
1:A:210:TYR:CG	2:B:324:LYS:HD3	2.33	0.63
1:A:212:ILE:HG22	1:A:275:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:TYR:HA	1:A:374:ALA:O	1.98	0.63
1:C:114:ILE:HD11	1:C:149:LEU:HD11	1.81	0.63
1:C:319:TYR:HA	1:C:374:ALA:O	1.98	0.63
1:E:105:ARG:O	1:E:110:ILE:N	2.31	0.63
1:E:210:TYR:CG	2:F:324:LYS:HD3	2.33	0.63
1:E:319:TYR:HA	1:E:374:ALA:O	1.98	0.63
1:A:320:ARG:O	1:A:373:ARG:HA	1.99	0.63
1:C:212:ILE:HG22	1:C:275:ILE:HD11	1.81	0.63
1:C:238:LEU:HD12	1:C:318:MET:HE1	1.79	0.63
2:D:264:HIS:HA	2:D:266:PHE:CZ	2.34	0.63
1:E:212:ILE:HG22	1:E:275:ILE:HD11	1.81	0.63
1:A:238:LEU:HD12	1:A:318:MET:HE1	1.79	0.63
2:B:388:MET:HB3	2:B:393:ALA:HB3	1.79	0.63
1:C:320:ARG:O	1:C:373:ARG:HA	1.99	0.63
2:D:113:ILE:HA	2:D:147:MET:HE3	1.79	0.63
1:E:238:LEU:HD12	1:E:318:MET:HE1	1.79	0.63
1:E:320:ARG:O	1:E:373:ARG:HA	1.99	0.63
2:B:113:ILE:HA	2:B:147:MET:HE3	1.79	0.63
2:B:16:ILE:HG12	2:B:226:ASN:OD1	1.98	0.63
2:B:264:HIS:HA	2:B:266:PHE:CZ	2.34	0.63
2:D:388:MET:HB3	2:D:393:ALA:HB3	1.79	0.63
2:F:264:HIS:HA	2:F:266:PHE:CZ	2.34	0.63
1:A:381:SER:OG	1:A:382:THR:N	2.32	0.63
2:B:87:PRO:HA	2:B:90:PHE:CE2	2.33	0.63
1:C:276:ILE:HD11	1:C:286:LEU:HD11	1.79	0.63
1:C:381:SER:OG	1:C:382:THR:N	2.31	0.63
2:D:16:ILE:HG12	2:D:226:ASN:OD1	1.98	0.63
2:D:87:PRO:HA	2:D:90:PHE:CE2	2.33	0.63
1:E:276:ILE:HD11	1:E:286:LEU:HD11	1.79	0.63
1:E:381:SER:OG	1:E:382:THR:N	2.31	0.63
2:F:132:GLY:HA3	2:F:163:ILE:HG22	1.81	0.63
2:F:16:ILE:HG12	2:F:226:ASN:OD1	1.98	0.63
2:F:388:MET:HB3	2:F:393:ALA:HB3	1.79	0.63
1:A:276:ILE:HD11	1:A:286:LEU:HD11	1.79	0.63
1:A:286:LEU:HD13	1:A:371:VAL:HG12	1.81	0.63
2:B:132:GLY:HA3	2:B:163:ILE:HG22	1.81	0.63
2:B:274:THR:HB	2:B:278:SER:CB	2.29	0.63
2:D:132:GLY:HA3	2:D:163:ILE:HG22	1.81	0.63
1:E:286:LEU:HD13	1:E:371:VAL:HG12	1.81	0.63
2:F:87:PRO:HA	2:F:90:PHE:CE2	2.33	0.63
2:B:382:ALA:O	2:B:386:THR:OG1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:274:THR:HB	2:D:278:SER:CB	2.29	0.63
2:D:382:ALA:O	2:D:386:THR:OG1	2.14	0.63
2:F:274:THR:HB	2:F:278:SER:CB	2.29	0.63
2:F:382:ALA:O	2:F:386:THR:OG1	2.14	0.63
1:C:185:TYR:HB3	1:C:408:TYR:HE2	1.63	0.62
1:C:286:LEU:HD13	1:C:371:VAL:HG12	1.81	0.62
2:D:211:CYS:CA	2:D:215:LEU:HB2	2.28	0.62
1:E:185:TYR:HB3	1:E:408:TYR:HE2	1.63	0.62
2:F:211:CYS:CA	2:F:215:LEU:HB2	2.28	0.62
1:A:185:TYR:HB3	1:A:408:TYR:HE2	1.63	0.62
1:A:70:LEU:HA	1:A:95:GLY:HA3	1.80	0.62
2:B:211:CYS:CA	2:B:215:LEU:HB2	2.28	0.62
2:B:31:ASP:OD1	2:B:34:GLY:N	2.32	0.62
1:C:259:LEU:C	2:B:394:PHE:CZ	2.70	0.62
2:B:157:GLU:O	2:B:160:PRO:HD3	2.00	0.62
2:B:254:ALA:O	2:B:258:ILE:HG22	2.00	0.62
1:C:326:LYS:HZ2	2:B:208:TYR:CB	2.11	0.62
1:C:70:LEU:HA	1:C:95:GLY:HA3	1.80	0.62
2:D:254:ALA:O	2:D:258:ILE:HG22	2.00	0.62
2:D:31:ASP:OD1	2:D:34:GLY:N	2.32	0.62
1:E:70:LEU:HA	1:E:95:GLY:HA3	1.80	0.62
2:F:254:ALA:O	2:F:258:ILE:HG22	2.00	0.62
2:F:31:ASP:OD1	2:F:34:GLY:N	2.32	0.62
2:B:334:GLN:HA	2:B:341:PHE:CZ	2.34	0.62
2:B:311:LEU:H	2:B:371:SER:HA	1.64	0.62
2:D:157:GLU:O	2:D:160:PRO:HD3	2.00	0.62
2:D:385:PHE:O	2:D:389:PHE:HB2	2.00	0.62
2:F:157:GLU:O	2:F:160:PRO:HD3	2.00	0.62
2:F:385:PHE:O	2:F:389:PHE:HB2	2.00	0.62
2:B:385:PHE:O	2:B:389:PHE:HB2	2.00	0.62
2:B:74:ASP:O	2:B:78:ALA:N	2.30	0.62
1:C:70:LEU:CB	1:C:98:ASP:HA	2.30	0.62
2:D:334:GLN:HA	2:D:341:PHE:CZ	2.34	0.62
2:D:311:LEU:H	2:D:371:SER:HA	1.64	0.62
2:D:74:ASP:O	2:D:78:ALA:N	2.30	0.62
2:F:311:LEU:H	2:F:371:SER:HA	1.64	0.62
2:F:334:GLN:HA	2:F:341:PHE:CZ	2.34	0.62
2:F:74:ASP:O	2:F:78:ALA:N	2.30	0.62
1:A:70:LEU:CB	1:A:98:ASP:HA	2.30	0.62
1:E:70:LEU:CB	1:E:98:ASP:HA	2.30	0.62
2:F:169:VAL:HG22	2:F:202:ILE:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:169:VAL:HG22	2:B:202:ILE:HG21	1.81	0.62
2:D:169:VAL:HG22	2:D:202:ILE:HG21	1.81	0.62
2:D:237:THR:CG2	2:D:240:LEU:HB3	2.30	0.62
2:D:12:CYS:N	5:D:501:GDP:O1A	2.30	0.62
2:F:237:THR:CG2	2:F:240:LEU:HB3	2.30	0.62
2:F:12:CYS:N	5:F:501:GDP:O1A	2.30	0.62
2:B:237:THR:CG2	2:B:240:LEU:HB3	2.30	0.62
2:B:52:ASN:HB2	2:B:60:VAL:CG2	2.30	0.62
1:C:261:PRO:N	2:B:394:PHE:CE1	2.67	0.62
2:D:176:SER:O	1:E:351:PHE:HB2	1.99	0.62
2:D:52:ASN:HB2	2:D:60:VAL:CG2	2.30	0.62
2:F:52:ASN:HB2	2:F:60:VAL:CG2	2.30	0.62
2:B:12:CYS:N	5:B:501:GDP:O1A	2.30	0.62
2:B:244:GLY:O	2:B:247:ASN:ND2	2.33	0.62
2:B:100:ASN:HD21	2:B:398:TYR:HA	1.64	0.62
2:D:244:GLY:O	2:D:247:ASN:ND2	2.33	0.62
2:F:244:GLY:O	2:F:247:ASN:ND2	2.33	0.62
2:F:371:SER:OG	2:F:372:THR:N	2.31	0.62
2:B:13:GLY:HA2	2:B:16:ILE:CD1	2.30	0.61
2:B:371:SER:OG	2:B:372:THR:N	2.31	0.61
1:C:59:GLY:HA2	1:C:61:HIS:HE1	1.65	0.61
2:D:13:GLY:HA2	2:D:16:ILE:CD1	2.30	0.61
2:D:371:SER:OG	2:D:372:THR:N	2.31	0.61
2:D:100:ASN:HD21	2:D:398:TYR:HA	1.65	0.61
2:D:46:ARG:O	2:D:49:VAL:HG22	1.99	0.61
2:F:13:GLY:HA2	2:F:16:ILE:CD1	2.30	0.61
2:F:100:ASN:HD21	2:F:398:TYR:HA	1.65	0.61
2:B:327:ASP:OD1	2:B:328:GLU:N	2.33	0.61
2:B:326:VAL:O	2:B:330:MET:HG2	2.00	0.61
2:B:46:ARG:O	2:B:49:VAL:HG22	1.99	0.61
1:C:144:GLY:HA3	3:C:501:GTP:O1G	2.00	0.61
2:D:42:LEU:HG	2:D:242:PHE:CE1	2.36	0.61
2:D:327:ASP:OD1	2:D:328:GLU:N	2.33	0.61
1:E:144:GLY:HA3	3:E:501:GTP:O1G	2.00	0.61
2:F:327:ASP:OD1	2:F:328:GLU:N	2.33	0.61
2:F:326:VAL:O	2:F:330:MET:HG2	2.00	0.61
2:F:46:ARG:O	2:F:49:VAL:HG22	1.99	0.61
1:A:145:THR:HG23	1:A:149:LEU:CB	2.29	0.61
1:A:301:MET:HG3	1:A:307:PRO:HG3	1.81	0.61
1:A:144:GLY:HA3	3:A:501:GTP:O1G	2.00	0.61
2:B:203:ASP:O	2:B:207:LEU:HD13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:42:LEU:HG	2:B:242:PHE:CE1	2.36	0.61
1:C:301:MET:HG3	1:C:307:PRO:HG3	1.81	0.61
2:D:326:VAL:O	2:D:330:MET:HG2	2.00	0.61
1:E:301:MET:HG3	1:E:307:PRO:HG3	1.81	0.61
1:E:312:TYR:HB2	1:E:343:PHE:CE1	2.35	0.61
1:E:59:GLY:HA2	1:E:61:HIS:HE1	1.65	0.61
2:F:203:ASP:O	2:F:207:LEU:HD13	2.00	0.61
2:F:42:LEU:HG	2:F:242:PHE:CE1	2.36	0.61
1:A:312:TYR:HB2	1:A:343:PHE:CE1	2.35	0.61
1:A:59:GLY:HA2	1:A:61:HIS:HE1	1.65	0.61
2:D:203:ASP:O	2:D:207:LEU:HD13	2.00	0.61
2:D:237:THR:HB	2:D:241:ARG:HE	1.64	0.61
1:E:145:THR:HG23	1:E:149:LEU:CB	2.29	0.61
1:E:88:HIS:O	1:E:91:GLN:HB2	2.00	0.61
1:A:77:GLU:O	1:A:81:GLY:N	2.32	0.61
2:B:237:THR:HB	2:B:241:ARG:HE	1.64	0.61
1:C:145:THR:HG23	1:C:149:LEU:CB	2.29	0.61
1:C:312:TYR:HB2	1:C:343:PHE:CE1	2.35	0.61
1:C:77:GLU:O	1:C:81:GLY:N	2.32	0.61
1:C:88:HIS:O	1:C:91:GLN:HB2	2.00	0.61
2:D:19:LYS:O	2:D:23:VAL:HG23	2.01	0.61
2:F:237:THR:HB	2:F:241:ARG:HE	1.64	0.61
2:F:19:LYS:O	2:F:23:VAL:HG23	2.01	0.61
1:A:301:MET:HG3	1:A:307:PRO:CD	2.30	0.61
1:A:88:HIS:O	1:A:91:GLN:HB2	2.00	0.61
2:B:4:ILE:HG22	2:B:132:GLY:N	2.15	0.61
2:B:19:LYS:O	2:B:23:VAL:HG23	2.01	0.61
2:B:334:GLN:NE2	2:B:348:ASN:OD1	2.34	0.61
1:C:258:ASN:N	2:B:397:TRP:CZ3	2.54	0.61
1:C:174:SER:HA	1:C:205:ASP:OD2	2.01	0.61
1:C:301:MET:HG3	1:C:307:PRO:CD	2.30	0.61
2:D:334:GLN:NE2	2:D:348:ASN:OD1	2.34	0.61
1:E:174:SER:HA	1:E:205:ASP:OD2	2.01	0.61
1:E:301:MET:HG3	1:E:307:PRO:CD	2.30	0.61
1:E:77:GLU:O	1:E:81:GLY:N	2.32	0.61
1:A:174:SER:HA	1:A:205:ASP:OD2	2.01	0.61
1:A:321:GLY:N	1:A:356:ASN:O	2.33	0.61
1:C:321:GLY:N	1:C:356:ASN:O	2.33	0.61
2:D:191:GLN:O	2:D:195:ASN:ND2	2.34	0.61
1:E:144:GLY:C	3:E:501:GTP:O1G	2.38	0.61
2:F:191:GLN:O	2:F:195:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:334:GLN:NE2	2:F:348:ASN:OD1	2.34	0.61
1:A:144:GLY:C	3:A:501:GTP:O1G	2.38	0.61
2:B:191:GLN:O	2:B:195:ASN:ND2	2.34	0.61
1:C:144:GLY:C	3:C:501:GTP:O1G	2.38	0.61
2:D:4:ILE:HG22	2:D:132:GLY:N	2.15	0.61
2:D:208:TYR:CB	1:E:326:LYS:HZ2	2.13	0.61
1:E:321:GLY:N	1:E:356:ASN:O	2.33	0.61
2:F:4:ILE:HG22	2:F:132:GLY:N	2.15	0.61
1:A:107:HIS:CD2	1:A:151:SER:HB2	2.35	0.61
1:A:166:LYS:HB2	1:A:199:ASP:HB3	1.83	0.61
2:B:52:ASN:HB2	2:B:60:VAL:HG23	1.83	0.61
1:C:107:HIS:CD2	1:C:151:SER:HB2	2.35	0.61
1:C:166:LYS:HB2	1:C:199:ASP:HB3	1.83	0.61
1:C:261:PRO:O	2:B:394:PHE:HA	2.01	0.61
2:D:4:ILE:O	2:D:62:ARG:NH1	2.32	0.61
1:E:166:LYS:HB2	1:E:199:ASP:HB3	1.83	0.61
2:F:4:ILE:O	2:F:62:ARG:NH1	2.32	0.61
1:A:281:ALA:HB2	1:A:369:ALA:HB1	1.83	0.61
1:A:70:LEU:HA	1:A:95:GLY:CA	2.30	0.61
2:B:4:ILE:O	2:B:62:ARG:NH1	2.32	0.61
1:C:281:ALA:HB2	1:C:369:ALA:HB1	1.83	0.61
2:D:394:PHE:CE1	1:E:257:THR:C	2.74	0.61
2:D:52:ASN:HB2	2:D:60:VAL:HG23	1.83	0.61
1:E:107:HIS:HB2	1:E:148:GLY:CA	2.29	0.61
1:E:107:HIS:CD2	1:E:151:SER:HB2	2.35	0.61
1:E:281:ALA:HB2	1:E:369:ALA:HB1	1.83	0.61
2:F:408:PHE:O	2:F:412:GLU:HB2	2.01	0.61
1:A:138:PHE:CD1	1:A:169:PHE:HB2	2.36	0.60
1:A:2:ARG:NH2	1:A:46:ASP:OD1	2.34	0.60
2:B:408:PHE:O	2:B:412:GLU:HB2	2.01	0.60
2:B:4:ILE:HG22	2:B:132:GLY:H	1.66	0.60
2:D:220:PRO:CG	1:E:326:LYS:CB	2.77	0.60
2:D:408:PHE:O	2:D:412:GLU:HB2	2.01	0.60
1:E:138:PHE:CD1	1:E:169:PHE:HB2	2.36	0.60
2:F:52:ASN:HB2	2:F:60:VAL:HG23	1.83	0.60
1:A:3:GLU:HB2	1:A:132:LEU:CA	2.31	0.60
1:C:3:GLU:HB2	1:C:132:LEU:CA	2.31	0.60
1:C:7:ILE:N	1:C:136:LEU:O	2.34	0.60
1:C:138:PHE:CD1	1:C:169:PHE:HB2	2.36	0.60
1:C:2:ARG:NH2	1:C:46:ASP:OD1	2.34	0.60
1:C:70:LEU:HA	1:C:95:GLY:CA	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4:ILE:HG22	2:D:132:GLY:H	1.66	0.60
2:D:358:PRO:HD3	2:D:364:ALA:HB2	1.83	0.60
2:D:394:PHE:HZ	1:E:259:LEU:O	1.84	0.60
1:E:2:ARG:NH2	1:E:46:ASP:OD1	2.34	0.60
1:E:70:LEU:HA	1:E:95:GLY:CA	2.30	0.60
1:E:7:ILE:N	1:E:136:LEU:O	2.34	0.60
2:F:358:PRO:HD3	2:F:364:ALA:HB2	1.83	0.60
1:A:107:HIS:HB2	1:A:148:GLY:CA	2.29	0.60
2:B:358:PRO:HD3	2:B:364:ALA:HB2	1.84	0.60
1:C:107:HIS:HB2	1:C:148:GLY:CA	2.29	0.60
1:E:3:GLU:HB2	1:E:132:LEU:CA	2.31	0.60
2:D:394:PHE:HA	1:E:261:PRO:O	2.01	0.60
2:F:4:ILE:HG22	2:F:132:GLY:H	1.66	0.60
1:A:7:ILE:N	1:A:136:LEU:O	2.34	0.60
2:B:48:ASN:OD1	2:B:49:VAL:HG13	2.01	0.60
2:F:372:THR:OG1	2:F:375:GLN:NE2	2.34	0.60
2:F:48:ASN:OD1	2:F:49:VAL:HG13	2.01	0.60
1:A:221:ARG:HB3	2:B:322:SER:CB	2.31	0.60
1:A:167:LEU:HD21	1:A:252:ILE:CD1	2.31	0.60
1:A:269:LEU:HD13	1:A:303:ALA:HB3	1.81	0.60
2:B:342:VAL:CG2	2:B:345:ILE:HD12	2.28	0.60
2:B:372:THR:OG1	2:B:375:GLN:NE2	2.34	0.60
1:C:269:LEU:HD13	1:C:303:ALA:HB3	1.81	0.60
2:D:372:THR:OG1	2:D:375:GLN:NE2	2.34	0.60
2:D:48:ASN:OD1	2:D:49:VAL:HG13	2.01	0.60
1:E:221:ARG:HB3	2:F:322:SER:CB	2.31	0.60
1:E:1:MET:SD	1:E:2:ARG:HG3	2.41	0.60
1:A:1:MET:SD	1:A:2:ARG:HG3	2.41	0.60
2:B:137:HIS:O	2:B:168:SER:HA	2.02	0.60
2:B:274:THR:HB	2:B:278:SER:HB2	1.83	0.60
1:C:1:MET:SD	1:C:2:ARG:HG3	2.41	0.60
1:C:221:ARG:HB3	2:D:322:SER:CB	2.31	0.60
2:D:137:HIS:O	2:D:168:SER:HA	2.02	0.60
2:D:342:VAL:CG2	2:D:345:ILE:HD12	2.29	0.60
1:E:167:LEU:HD21	1:E:252:ILE:CD1	2.31	0.60
1:E:269:LEU:HD13	1:E:303:ALA:HB3	1.81	0.60
2:F:137:HIS:O	2:F:168:SER:HA	2.02	0.60
2:F:342:VAL:CG2	2:F:345:ILE:HD12	2.29	0.60
1:A:313:MET:HG2	1:A:344:VAL:CG1	2.32	0.60
1:C:93:ILE:HG23	1:C:117:LEU:HD23	1.83	0.60
1:C:221:ARG:HB3	2:D:322:SER:OG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:167:LEU:HD21	1:C:252:ILE:CD1	2.32	0.60
1:C:313:MET:HG2	1:C:344:VAL:CG1	2.32	0.60
1:E:93:ILE:HG23	1:E:117:LEU:HD23	1.83	0.60
1:E:147:SER:O	1:E:151:SER:OG	2.15	0.60
1:E:313:MET:HG2	1:E:344:VAL:CG1	2.32	0.60
1:E:221:ARG:HB3	2:F:322:SER:OG	2.01	0.60
1:A:93:ILE:HG23	1:A:117:LEU:HD23	1.83	0.60
1:A:221:ARG:HB3	2:B:322:SER:OG	2.01	0.60
2:B:30:ILE:HG23	2:B:35:THR:C	2.22	0.60
1:C:147:SER:O	1:C:151:SER:OG	2.15	0.60
2:D:30:ILE:HG23	2:D:35:THR:C	2.22	0.60
1:E:227:LEU:HD22	3:E:501:GTP:N2	2.17	0.60
2:F:30:ILE:HG23	2:F:35:THR:C	2.22	0.60
1:A:183:GLU:HA	1:A:186:ASN:HD22	1.66	0.60
1:A:227:LEU:HD22	3:A:501:GTP:N2	2.17	0.60
1:C:227:LEU:HD22	3:C:501:GTP:N2	2.17	0.60
2:D:274:THR:HB	2:D:278:SER:HB2	1.83	0.60
2:F:274:THR:HB	2:F:278:SER:HB2	1.83	0.60
1:A:147:SER:O	1:A:151:SER:OG	2.15	0.60
1:C:183:GLU:HA	1:C:186:ASN:HD22	1.66	0.60
1:C:351:PHE:HB2	2:B:176:SER:O	2.01	0.60
1:E:183:GLU:HA	1:E:186:ASN:HD22	1.66	0.60
1:A:102:ASN:OD1	1:A:104:ALA:N	2.34	0.59
2:B:199:CYS:N	2:B:264:HIS:O	2.35	0.59
2:D:179:VAL:HB	1:E:350:GLY:HA3	1.73	0.59
2:D:199:CYS:N	2:D:264:HIS:O	2.35	0.59
2:D:179:VAL:CB	1:E:349:THR:O	2.50	0.59
2:F:199:CYS:N	2:F:264:HIS:O	2.35	0.59
1:A:11:GLN:O	1:A:15:GLN:HG2	2.01	0.59
1:A:384:ILE:HD11	1:A:432:TYR:OH	2.01	0.59
2:B:279:GLN:HG3	2:B:280:GLN:OE1	2.02	0.59
2:B:285:THR:HB	2:B:287:PRO:HD2	1.84	0.59
1:C:102:ASN:OD1	1:C:104:ALA:N	2.34	0.59
1:C:320:ARG:NH2	1:C:358:GLN:HG3	2.17	0.59
1:C:384:ILE:HD11	1:C:432:TYR:OH	2.01	0.59
2:D:285:THR:HB	2:D:287:PRO:HD2	1.84	0.59
1:E:320:ARG:NH2	1:E:358:GLN:HG3	2.17	0.59
2:F:285:THR:HB	2:F:287:PRO:HD2	1.84	0.59
1:A:320:ARG:NH2	1:A:358:GLN:HG3	2.17	0.59
2:B:3:GLU:O	2:B:130:LEU:HD12	2.02	0.59
2:B:304:ASP:OD2	2:B:306:ARG:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:GLN:O	1:C:15:GLN:HG2	2.01	0.59
1:C:326:LYS:CB	2:B:220:PRO:CG	2.78	0.59
2:D:304:ASP:OD2	2:D:306:ARG:HB2	2.02	0.59
1:E:102:ASN:OD1	1:E:104:ALA:N	2.34	0.59
1:E:11:GLN:O	1:E:15:GLN:HG2	2.01	0.59
1:E:384:ILE:HD11	1:E:432:TYR:OH	2.01	0.59
2:F:279:GLN:HG3	2:F:280:GLN:OE1	2.02	0.59
2:F:3:GLU:O	2:F:130:LEU:HD12	2.02	0.59
2:D:279:GLN:HG3	2:D:280:GLN:OE1	2.02	0.59
2:D:3:GLU:O	2:D:130:LEU:HD12	2.02	0.59
2:F:304:ASP:OD2	2:F:306:ARG:HB2	2.02	0.59
1:A:259:LEU:O	1:A:261:PRO:HD3	2.02	0.59
1:A:3:GLU:N	1:A:3:GLU:OE1	2.35	0.59
2:B:52:ASN:O	2:B:60:VAL:HG22	2.02	0.59
1:C:3:GLU:N	1:C:3:GLU:OE1	2.35	0.59
1:E:3:GLU:N	1:E:3:GLU:OE1	2.35	0.59
2:F:52:ASN:O	2:F:60:VAL:HG22	2.02	0.59
1:A:110:ILE:HG23	1:A:113:GLU:OE1	2.02	0.59
1:C:110:ILE:HG23	1:C:113:GLU:OE1	2.02	0.59
1:C:259:LEU:O	1:C:261:PRO:HD3	2.02	0.59
2:D:52:ASN:O	2:D:60:VAL:HG22	2.02	0.59
1:E:110:ILE:HG23	1:E:113:GLU:OE1	2.02	0.59
1:E:259:LEU:O	1:E:261:PRO:HD3	2.02	0.59
1:E:393:HIS:O	1:E:396:ASP:HB3	2.03	0.59
1:A:393:HIS:O	1:A:396:ASP:HB3	2.03	0.59
3:A:501:GTP:O2G	3:A:501:GTP:O2B	2.20	0.59
2:B:319:GLY:HA2	2:B:357:PRO:CD	2.33	0.59
1:C:393:HIS:O	1:C:396:ASP:HB3	2.03	0.59
2:D:319:GLY:HA2	2:D:357:PRO:CD	2.33	0.59
2:F:319:GLY:HA2	2:F:357:PRO:CD	2.33	0.59
1:A:200:VAL:HA	1:A:266:HIS:ND1	2.18	0.59
1:A:206:ASN:O	1:A:209:ILE:N	2.35	0.59
2:B:230:SER:O	2:B:234:SER:CB	2.50	0.59
1:C:206:ASN:O	1:C:209:ILE:N	2.35	0.59
1:C:385:ALA:HA	1:C:388:PHE:CD2	2.37	0.59
3:C:501:GTP:O2G	3:C:501:GTP:O2B	2.20	0.59
2:D:230:SER:O	2:D:234:SER:CB	2.50	0.59
1:E:206:ASN:O	1:E:209:ILE:N	2.35	0.59
1:E:312:TYR:HB2	1:E:343:PHE:CD1	2.37	0.59
1:E:385:ALA:HA	1:E:388:PHE:CD2	2.37	0.59
3:E:501:GTP:O2G	3:E:501:GTP:O2B	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:230:SER:O	2:F:234:SER:CB	2.50	0.59
1:A:312:TYR:HB2	1:A:343:PHE:CD1	2.37	0.59
1:A:385:ALA:HA	1:A:388:PHE:CD2	2.38	0.59
1:A:421:ALA:O	1:A:424:ASP:HB3	2.03	0.59
2:B:53:GLU:HA	2:B:59:TYR:CD1	2.38	0.59
1:C:312:TYR:HB2	1:C:343:PHE:CD1	2.37	0.59
2:D:175:VAL:HG11	1:E:329:ASN:HD21	1.67	0.59
1:E:200:VAL:HA	1:E:266:HIS:ND1	2.18	0.59
2:D:179:VAL:CB	1:E:350:GLY:CA	2.42	0.59
1:E:99:ALA:HA	1:E:105:ARG:HD3	1.85	0.59
2:F:53:GLU:HA	2:F:59:TYR:CD1	2.38	0.59
1:A:181:VAL:O	1:A:184:PRO:HD2	2.03	0.59
1:A:276:ILE:HD13	1:A:286:LEU:HD21	1.85	0.59
2:B:7:ILE:O	2:B:135:ILE:HD12	2.03	0.59
1:C:258:ASN:C	2:B:394:PHE:CZ	2.62	0.59
1:C:200:VAL:HA	1:C:266:HIS:ND1	2.18	0.59
1:C:276:ILE:HD13	1:C:286:LEU:HD21	1.85	0.59
1:C:421:ALA:O	1:C:424:ASP:HB3	2.03	0.59
2:D:53:GLU:HA	2:D:59:TYR:CD1	2.38	0.59
1:E:181:VAL:O	1:E:184:PRO:HD2	2.03	0.59
1:E:276:ILE:HD13	1:E:286:LEU:HD21	1.85	0.59
1:E:421:ALA:O	1:E:424:ASP:HB3	2.03	0.59
2:F:21:TRP:CZ3	2:F:61:PRO:HB3	2.38	0.59
1:A:99:ALA:HA	1:A:105:ARG:HD3	1.85	0.58
1:A:12:GLY:N	3:A:501:GTP:O2A	2.35	0.58
2:B:21:TRP:CZ3	2:B:61:PRO:HB3	2.38	0.58
1:C:181:VAL:O	1:C:184:PRO:HD2	2.03	0.58
1:C:12:GLY:N	3:C:501:GTP:O2A	2.35	0.58
1:C:99:ALA:HA	1:C:105:ARG:HD3	1.85	0.58
2:D:7:ILE:O	2:D:135:ILE:HD12	2.03	0.58
2:D:21:TRP:CZ3	2:D:61:PRO:HB3	2.38	0.58
2:F:7:ILE:O	2:F:135:ILE:HD12	2.03	0.58
1:A:212:ILE:HG23	1:A:216:ASN:OD1	2.02	0.58
2:B:68:LEU:HA	2:B:93:GLY:HA3	1.85	0.58
1:C:212:ILE:HG23	1:C:216:ASN:OD1	2.01	0.58
1:E:12:GLY:N	3:E:501:GTP:O2A	2.35	0.58
1:A:115:VAL:HG13	1:A:156:ARG:NE	2.18	0.58
2:B:27:GLU:O	2:B:43:GLN:NE2	2.36	0.58
2:B:310:TYR:O	2:B:342:VAL:HG13	2.03	0.58
1:C:259:LEU:O	2:B:394:PHE:HZ	1.87	0.58
1:C:115:VAL:HG13	1:C:156:ARG:NE	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:310:TYR:O	2:D:342:VAL:HG13	2.03	0.58
2:D:27:GLU:O	2:D:43:GLN:NE2	2.36	0.58
2:D:68:LEU:HA	2:D:93:GLY:HA3	1.85	0.58
1:E:115:VAL:HG13	1:E:156:ARG:NE	2.18	0.58
1:E:212:ILE:HG23	1:E:216:ASN:OD1	2.02	0.58
2:F:294:PHE:CE2	2:F:333:VAL:HG11	2.38	0.58
2:F:27:GLU:O	2:F:43:GLN:NE2	2.36	0.58
2:F:68:LEU:HA	2:F:93:GLY:HA3	1.85	0.58
1:A:72:PRO:HD3	1:A:96:LYS:O	2.03	0.58
2:B:294:PHE:CE2	2:B:333:VAL:HG11	2.38	0.58
1:C:72:PRO:HD3	1:C:96:LYS:O	2.03	0.58
2:D:294:PHE:CE2	2:D:333:VAL:HG11	2.38	0.58
1:E:385:ALA:O	1:E:388:PHE:HB2	2.02	0.58
1:E:72:PRO:HD3	1:E:96:LYS:O	2.03	0.58
1:A:175:PRO:HD3	1:A:205:ASP:OD2	2.03	0.58
1:A:385:ALA:O	1:A:388:PHE:HB2	2.02	0.58
2:B:16:ILE:HA	2:B:226:ASN:ND2	2.18	0.58
1:C:258:ASN:CA	2:B:394:PHE:CD1	2.82	0.58
1:C:175:PRO:HD3	1:C:205:ASP:OD2	2.03	0.58
1:C:385:ALA:O	1:C:388:PHE:HB2	2.02	0.58
1:E:175:PRO:HD3	1:E:205:ASP:OD2	2.03	0.58
2:F:310:TYR:O	2:F:342:VAL:HG13	2.03	0.58
1:A:288:VAL:O	1:A:292:THR:OG1	2.07	0.58
2:D:99:ASN:OD1	2:D:143:THR:N	2.36	0.58
2:D:16:ILE:HA	2:D:226:ASN:ND2	2.18	0.58
1:E:68:LEU:CD1	1:E:114:ILE:HD12	2.31	0.58
2:F:99:ASN:OD1	2:F:143:THR:N	2.36	0.58
1:A:68:LEU:CD1	1:A:114:ILE:HD12	2.31	0.58
2:B:190:HIS:HB2	2:B:411:ALA:CB	2.33	0.58
2:B:65:LEU:HD23	2:B:73:MET:SD	2.43	0.58
1:C:44:GLY:O	2:B:74:ASP:OD1	2.05	0.58
2:B:99:ASN:OD1	2:B:143:THR:N	2.36	0.58
1:C:68:LEU:CD1	1:C:114:ILE:HD12	2.31	0.58
2:D:190:HIS:HB2	2:D:411:ALA:CB	2.33	0.58
2:D:65:LEU:HD23	2:D:73:MET:SD	2.43	0.58
2:F:16:ILE:HA	2:F:226:ASN:ND2	2.18	0.58
2:F:65:LEU:HD23	2:F:73:MET:SD	2.43	0.58
1:A:336:LYS:HE2	1:A:349:THR:HG21	1.86	0.58
1:A:399:TYR:OH	1:A:415:GLU:HG3	2.04	0.58
2:B:4:ILE:HD12	2:B:134:GLN:HG3	1.85	0.58
1:C:288:VAL:O	1:C:292:THR:OG1	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4:ILE:HD12	2:D:134:GLN:HG3	1.85	0.58
1:E:252:ILE:O	1:E:255:PHE:N	2.37	0.58
1:E:399:TYR:OH	1:E:415:GLU:HG3	2.04	0.58
2:F:190:HIS:HB2	2:F:411:ALA:CB	2.33	0.58
1:A:252:ILE:O	1:A:255:PHE:N	2.37	0.58
2:B:238:CYS:SG	2:B:239:CYS:N	2.76	0.58
1:C:252:ILE:O	1:C:255:PHE:N	2.37	0.58
1:C:399:TYR:OH	1:C:415:GLU:HG3	2.04	0.58
1:E:336:LYS:HE2	1:E:349:THR:HG21	1.86	0.58
2:F:238:CYS:SG	2:F:239:CYS:N	2.76	0.58
2:F:4:ILE:HD12	2:F:134:GLN:HG3	1.85	0.58
1:A:115:VAL:HG13	1:A:156:ARG:CZ	2.33	0.58
1:A:185:TYR:HB3	1:A:408:TYR:CE2	2.39	0.58
2:B:138:SER:HA	2:B:169:VAL:N	2.17	0.58
1:C:329:ASN:HD21	2:B:175:VAL:HG11	1.69	0.58
2:B:298:ASN:O	2:B:300:MET:HG3	2.04	0.58
1:C:336:LYS:HE2	1:C:349:THR:HG21	1.86	0.58
2:D:138:SER:HA	2:D:169:VAL:N	2.17	0.58
2:D:238:CYS:SG	2:D:239:CYS:N	2.76	0.58
1:E:223:THR:OG1	1:E:224:TYR:N	2.37	0.58
1:E:288:VAL:O	1:E:292:THR:OG1	2.07	0.58
1:E:185:TYR:HB3	1:E:408:TYR:CE2	2.39	0.58
1:C:115:VAL:HG13	1:C:156:ARG:CZ	2.33	0.57
1:C:223:THR:OG1	1:C:224:TYR:N	2.37	0.57
1:C:185:TYR:HB3	1:C:408:TYR:CE2	2.39	0.57
2:D:298:ASN:O	2:D:300:MET:HG3	2.04	0.57
1:E:115:VAL:HG13	1:E:156:ARG:CZ	2.33	0.57
2:F:138:SER:HA	2:F:169:VAL:N	2.17	0.57
2:F:298:ASN:O	2:F:300:MET:HG3	2.04	0.57
1:A:100:ALA:HA	2:B:252:LYS:HG3	1.86	0.57
1:A:223:THR:OG1	1:A:224:TYR:N	2.37	0.57
2:B:127:CYS:SG	2:B:130:LEU:HD13	2.45	0.57
2:B:212:PHE:HA	2:B:217:LEU:O	2.04	0.57
1:C:100:ALA:HA	2:D:252:LYS:HG3	1.86	0.57
2:D:127:CYS:SG	2:D:130:LEU:HD13	2.45	0.57
2:D:212:PHE:HA	2:D:217:LEU:O	2.04	0.57
2:F:212:PHE:HA	2:F:217:LEU:O	2.04	0.57
2:B:249:ASP:O	2:B:253:LEU:N	2.35	0.57
1:C:1:MET:HE1	2:B:70:PRO:HD2	0.62	0.57
1:C:350:GLY:CA	2:B:179:VAL:CB	2.45	0.57
1:E:100:ALA:HA	2:F:252:LYS:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:251:ASP:O	1:E:254:GLU:HB3	2.05	0.57
1:E:70:LEU:HB2	1:E:98:ASP:HA	1.86	0.57
2:F:127:CYS:SG	2:F:130:LEU:HD13	2.45	0.57
2:F:249:ASP:O	2:F:253:LEU:N	2.35	0.57
1:A:251:ASP:O	1:A:254:GLU:HB3	2.05	0.57
1:A:70:LEU:HB2	1:A:98:ASP:HA	1.86	0.57
1:C:251:ASP:O	1:C:254:GLU:HB3	2.05	0.57
1:C:70:LEU:HB2	1:C:98:ASP:HA	1.86	0.57
2:D:113:ILE:HA	2:D:147:MET:CE	2.35	0.57
2:D:249:ASP:O	2:D:253:LEU:N	2.35	0.57
2:F:113:ILE:HA	2:F:147:MET:CE	2.35	0.57
2:B:113:ILE:HA	2:B:147:MET:CE	2.35	0.57
2:D:179:VAL:HB	1:E:350:GLY:HA2	0.65	0.57
1:E:288:VAL:HG22	1:E:373:ARG:HD2	1.87	0.57
1:A:152:LEU:HG	1:A:156:ARG:HH11	1.70	0.57
1:A:288:VAL:HG22	1:A:373:ARG:HD2	1.87	0.57
2:B:250:LEU:HD23	2:B:253:LEU:HD12	1.87	0.57
1:C:288:VAL:HG22	1:C:373:ARG:HD2	1.87	0.57
2:D:250:LEU:HD23	2:D:253:LEU:HD12	1.87	0.57
1:E:152:LEU:HG	1:E:156:ARG:HH11	1.70	0.57
2:F:250:LEU:HD23	2:F:253:LEU:HD12	1.87	0.57
1:A:100:ALA:HA	2:B:252:LYS:CG	2.35	0.57
1:A:202:VAL:HB	1:A:268:MET:CE	2.35	0.57
1:A:93:ILE:CD1	1:A:117:LEU:HG	2.35	0.57
1:C:152:LEU:HG	1:C:156:ARG:HH11	1.70	0.57
1:C:202:VAL:HB	1:C:268:MET:CE	2.35	0.57
1:E:202:VAL:HB	1:E:268:MET:CE	2.35	0.57
1:A:213:CYS:SG	1:A:217:LEU:HD12	2.45	0.57
1:C:350:GLY:HA3	2:B:179:VAL:HB	1.75	0.57
1:C:213:CYS:SG	1:C:217:LEU:HD12	2.45	0.57
1:C:93:ILE:CD1	1:C:117:LEU:HG	2.35	0.57
1:C:100:ALA:HA	2:D:252:LYS:CG	2.35	0.57
1:E:100:ALA:HA	2:F:252:LYS:CG	2.35	0.57
2:D:394:PHE:CZ	1:E:258:ASN:C	2.64	0.57
1:E:93:ILE:CD1	1:E:117:LEU:HG	2.35	0.57
1:A:24:PHE:CE1	1:A:236:SER:HA	2.38	0.57
1:C:350:GLY:HA2	2:B:179:VAL:HB	0.66	0.57
1:C:105:ARG:O	1:C:109:THR:N	2.38	0.57
1:C:311:LYS:HE3	1:C:342:GLN:OE1	2.04	0.57
1:C:264:ARG:HD2	1:C:428:LEU:CD2	2.35	0.57
1:C:71:GLU:HB3	1:C:98:ASP:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:104:ALA:HB1	1:E:108:TYR:HD2	1.68	0.57
1:E:213:CYS:SG	1:E:217:LEU:HD12	2.45	0.57
1:E:24:PHE:CE1	1:E:236:SER:HA	2.38	0.57
1:E:264:ARG:HD2	1:E:428:LEU:CD2	2.35	0.57
1:E:311:LYS:HE3	1:E:342:GLN:OE1	2.04	0.57
1:A:104:ALA:HB1	1:A:108:TYR:HD2	1.68	0.57
1:A:105:ARG:O	1:A:109:THR:N	2.38	0.57
1:A:258:ASN:OD1	1:A:259:LEU:HD12	2.05	0.57
1:A:311:LYS:HE3	1:A:342:GLN:OE1	2.04	0.57
1:A:320:ARG:HB2	1:A:374:ALA:HB3	1.85	0.57
1:A:264:ARG:HD2	1:A:428:LEU:CD2	2.35	0.57
2:B:190:HIS:HB2	2:B:411:ALA:HB2	1.85	0.57
1:C:24:PHE:CE1	1:C:236:SER:HA	2.38	0.57
1:C:320:ARG:HB2	1:C:374:ALA:HB3	1.85	0.57
1:C:56:THR:CG2	1:C:60:LYS:HB3	2.35	0.57
2:D:190:HIS:HB2	2:D:411:ALA:HB2	1.85	0.57
2:D:406:MET:O	2:D:410:GLU:HG3	2.04	0.57
1:E:105:ARG:O	1:E:109:THR:N	2.38	0.57
1:E:7:ILE:O	1:E:138:PHE:N	2.37	0.57
1:E:71:GLU:HB3	1:E:98:ASP:HB3	1.87	0.57
1:A:56:THR:CG2	1:A:60:LYS:HB3	2.35	0.56
1:A:7:ILE:O	1:A:138:PHE:N	2.37	0.56
1:A:71:GLU:HB3	1:A:98:ASP:HB3	1.87	0.56
2:B:242:PHE:HB3	2:B:243:PRO:HD2	1.87	0.56
2:B:406:MET:O	2:B:410:GLU:HG3	2.04	0.56
2:B:53:GLU:HA	2:B:59:TYR:HD1	1.69	0.56
1:C:104:ALA:HB1	1:C:108:TYR:HD2	1.68	0.56
1:C:258:ASN:OD1	1:C:259:LEU:HD12	2.05	0.56
1:C:349:THR:O	2:B:179:VAL:CB	2.53	0.56
1:C:7:ILE:O	1:C:138:PHE:N	2.37	0.56
2:D:334:GLN:HB2	2:D:349:ILE:CD1	2.30	0.56
1:E:258:ASN:OD1	1:E:259:LEU:HD12	2.05	0.56
1:E:320:ARG:HB2	1:E:374:ALA:HB3	1.85	0.56
1:E:56:THR:CG2	1:E:60:LYS:HB3	2.35	0.56
2:F:242:PHE:HB3	2:F:243:PRO:HD2	1.87	0.56
2:F:334:GLN:HB2	2:F:349:ILE:CD1	2.30	0.56
2:F:406:MET:O	2:F:410:GLU:HG3	2.04	0.56
2:F:53:GLU:HA	2:F:59:TYR:HD1	1.69	0.56
1:A:217:LEU:HD21	1:A:275:ILE:HB	1.87	0.56
2:B:334:GLN:HB2	2:B:349:ILE:CD1	2.31	0.56
2:D:242:PHE:HB3	2:D:243:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:53:GLU:HA	2:D:59:TYR:HD1	1.69	0.56
1:E:217:LEU:HD21	1:E:275:ILE:HB	1.87	0.56
1:E:319:TYR:CB	1:E:323:VAL:HG21	2.32	0.56
1:E:63:PRO:HG2	1:E:87:PHE:CE1	2.40	0.56
2:F:190:HIS:HB2	2:F:411:ALA:HB2	1.85	0.56
1:A:229:ARG:O	1:A:232:ALA:HB3	2.05	0.56
1:A:319:TYR:CB	1:A:323:VAL:HG21	2.32	0.56
1:A:63:PRO:HG2	1:A:87:PHE:CE1	2.40	0.56
2:B:332:ASN:O	2:B:336:LYS:HG3	2.05	0.56
1:C:229:ARG:O	1:C:232:ALA:HB3	2.05	0.56
1:C:217:LEU:HD21	1:C:275:ILE:HB	1.87	0.56
1:C:319:TYR:CB	1:C:323:VAL:HG21	2.32	0.56
1:C:63:PRO:HG2	1:C:87:PHE:CE1	2.41	0.56
2:D:318:ARG:HB2	2:D:358:PRO:HD3	1.87	0.56
1:E:229:ARG:O	1:E:232:ALA:HB3	2.05	0.56
2:F:332:ASN:O	2:F:336:LYS:HG3	2.05	0.56
2:F:318:ARG:HB2	2:F:358:PRO:HD3	1.87	0.56
1:A:244:PHE:HB2	1:A:356:ASN:HD21	1.69	0.56
2:B:318:ARG:HA	2:B:354:CYS:HB3	1.87	0.56
2:B:318:ARG:HB2	2:B:358:PRO:HD3	1.87	0.56
1:C:244:PHE:HB2	1:C:356:ASN:HD21	1.69	0.56
2:D:332:ASN:O	2:D:336:LYS:HG3	2.05	0.56
2:F:318:ARG:HA	2:F:354:CYS:HB3	1.87	0.56
2:B:206:ALA:O	2:B:210:ILE:HG13	2.04	0.56
1:C:88:HIS:ND1	1:C:89:PRO:HD2	2.20	0.56
2:D:318:ARG:HA	2:D:354:CYS:HB3	1.87	0.56
1:E:244:PHE:HB2	1:E:356:ASN:HD21	1.69	0.56
1:A:229:ARG:NH1	1:A:366:GLY:HA2	2.20	0.56
1:A:313:MET:N	1:A:380:ASN:O	2.36	0.56
1:A:88:HIS:ND1	1:A:89:PRO:HD2	2.20	0.56
2:B:310:TYR:N	2:B:340:TYR:O	2.37	0.56
1:E:167:LEU:HD11	1:E:252:ILE:HG21	1.86	0.56
1:E:405:VAL:O	1:E:409:VAL:HG12	2.05	0.56
1:E:4:VAL:HB	1:E:52:PHE:CE1	2.40	0.56
1:E:88:HIS:ND1	1:E:89:PRO:HD2	2.20	0.56
2:F:206:ALA:O	2:F:210:ILE:HG13	2.05	0.56
1:A:167:LEU:HD11	1:A:252:ILE:HG21	1.86	0.56
1:A:238:LEU:HD12	1:A:318:MET:CE	2.35	0.56
1:A:4:VAL:HB	1:A:52:PHE:CE1	2.40	0.56
2:B:140:GLY:O	2:B:181:GLU:HA	2.05	0.56
2:B:271:ALA:HA	2:B:273:LEU:CD2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:MET:SD	2:B:346:PRO:HD2	2.46	0.56
2:B:318:ARG:HB3	2:B:356:ILE:O	2.05	0.56
2:B:41:ASP:O	2:B:45:GLU:HG2	2.05	0.56
1:C:167:LEU:HD11	1:C:252:ILE:HG21	1.86	0.56
1:C:313:MET:N	1:C:380:ASN:O	2.36	0.56
1:C:238:LEU:HD12	1:C:318:MET:CE	2.35	0.56
1:C:229:ARG:NH1	1:C:366:GLY:HA2	2.20	0.56
1:C:405:VAL:O	1:C:409:VAL:HG12	2.05	0.56
2:D:140:GLY:O	2:D:181:GLU:HA	2.05	0.56
2:D:206:ALA:O	2:D:210:ILE:HG13	2.05	0.56
2:D:271:ALA:HA	2:D:273:LEU:CD2	2.36	0.56
2:D:310:TYR:N	2:D:340:TYR:O	2.37	0.56
1:C:398:MET:SD	2:D:346:PRO:HD2	2.46	0.56
1:E:238:LEU:HD12	1:E:318:MET:CE	2.35	0.56
1:E:9:VAL:HG22	1:E:68:LEU:O	2.06	0.56
2:F:140:GLY:O	2:F:181:GLU:HA	2.05	0.56
2:F:271:ALA:HA	2:F:273:LEU:CD2	2.36	0.56
2:F:310:TYR:N	2:F:340:TYR:O	2.37	0.56
1:E:398:MET:SD	2:F:346:PRO:HD2	2.46	0.56
2:F:41:ASP:O	2:F:45:GLU:HG2	2.05	0.56
1:A:313:MET:HA	1:A:344:VAL:HG22	1.88	0.56
1:A:405:VAL:O	1:A:409:VAL:HG12	2.05	0.56
1:C:4:VAL:HB	1:C:52:PHE:CE1	2.41	0.56
1:C:9:VAL:HG22	1:C:68:LEU:O	2.06	0.56
2:D:318:ARG:HB3	2:D:356:ILE:O	2.05	0.56
2:D:41:ASP:O	2:D:45:GLU:HG2	2.05	0.56
1:E:298:PRO:HG2	1:E:308:ARG:CD	2.36	0.56
1:E:229:ARG:NH1	1:E:366:GLY:HA2	2.20	0.56
1:E:313:MET:N	1:E:380:ASN:O	2.36	0.56
2:F:318:ARG:HB3	2:F:356:ILE:O	2.05	0.56
1:A:298:PRO:HG2	1:A:308:ARG:CD	2.36	0.56
1:A:9:VAL:HG22	1:A:68:LEU:O	2.06	0.56
2:B:239:CYS:HA	2:B:242:PHE:O	2.06	0.56
1:C:313:MET:HA	1:C:344:VAL:HG22	1.88	0.56
1:E:313:MET:HA	1:E:344:VAL:HG22	1.88	0.56
1:A:50:ASN:O	1:A:64:ARG:NH1	2.38	0.56
2:B:316:LEU:CB	2:B:366:THR:HB	2.26	0.56
1:C:298:PRO:HG2	1:C:308:ARG:CD	2.36	0.56
2:D:239:CYS:HA	2:D:242:PHE:O	2.06	0.56
2:D:316:LEU:CB	2:D:366:THR:HB	2.26	0.56
2:F:239:CYS:HA	2:F:242:PHE:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:PRO:HD2	2:B:324:LYS:CG	2.33	0.56
2:B:286:VAL:HB	2:B:287:PRO:HD3	1.88	0.56
1:C:50:ASN:O	1:C:64:ARG:NH1	2.38	0.56
2:D:169:VAL:HG11	5:D:501:GDP:H1'	1.88	0.56
2:D:286:VAL:HB	2:D:287:PRO:HD3	1.88	0.56
1:E:50:ASN:O	1:E:64:ARG:NH1	2.38	0.56
2:F:286:VAL:HB	2:F:287:PRO:HD3	1.88	0.56
2:F:316:LEU:CB	2:F:366:THR:HB	2.26	0.56
1:A:318:MET:HA	1:A:354:GLY:HA3	1.87	0.55
2:B:287:PRO:O	2:B:291:GLN:HG2	2.06	0.55
2:B:169:VAL:HG11	5:B:501:GDP:H1'	1.88	0.55
1:C:318:MET:HA	1:C:354:GLY:HA3	1.87	0.55
2:D:287:PRO:O	2:D:291:GLN:HG2	2.06	0.55
2:D:30:ILE:HG23	2:D:35:THR:O	2.06	0.55
1:E:222:PRO:HD2	2:F:324:LYS:CG	2.33	0.55
2:F:169:VAL:HG11	5:F:501:GDP:H1'	1.88	0.55
2:F:287:PRO:O	2:F:291:GLN:HG2	2.06	0.55
2:B:189:VAL:O	2:B:193:VAL:HG13	2.07	0.55
2:B:30:ILE:HG23	2:B:35:THR:O	2.06	0.55
1:C:222:PRO:HD2	2:D:324:LYS:CG	2.33	0.55
1:E:318:MET:HA	1:E:354:GLY:HA3	1.87	0.55
2:F:30:ILE:HG23	2:F:35:THR:O	2.06	0.55
2:B:200:MET:HB3	2:B:268:ILE:HD11	1.87	0.55
2:D:200:MET:HB3	2:D:268:ILE:HD11	1.87	0.55
2:F:189:VAL:O	2:F:193:VAL:HG13	2.07	0.55
1:A:209:ILE:CG2	1:A:227:LEU:HG	2.34	0.55
1:A:288:VAL:O	1:A:291:ILE:HG22	2.06	0.55
2:B:68:LEU:HD12	2:B:97:ALA:HB2	1.87	0.55
1:C:288:VAL:O	1:C:291:ILE:HG22	2.06	0.55
2:D:189:VAL:O	2:D:193:VAL:HG13	2.07	0.55
1:E:288:VAL:O	1:E:291:ILE:HG22	2.06	0.55
1:E:53:PHE:O	1:E:64:ARG:NH1	2.40	0.55
2:F:200:MET:HB3	2:F:268:ILE:HD11	1.87	0.55
1:A:120:ASP:OD2	1:A:124:LYS:HE3	2.07	0.55
1:A:301:MET:HG3	1:A:307:PRO:CG	2.37	0.55
1:A:53:PHE:O	1:A:64:ARG:NH1	2.40	0.55
2:B:382:ALA:HB2	2:B:415:MET:CE	2.37	0.55
2:B:5:VAL:HG22	2:B:62:ARG:CD	2.35	0.55
1:C:209:ILE:CG2	1:C:227:LEU:HG	2.34	0.55
1:C:301:MET:HG3	1:C:307:PRO:CG	2.37	0.55
1:C:53:PHE:O	1:C:64:ARG:NH1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:138:SER:CB	2:D:169:VAL:HB	2.36	0.55
2:D:207:LEU:HD23	2:D:225:LEU:HB3	1.88	0.55
2:D:382:ALA:HB2	2:D:415:MET:CE	2.37	0.55
2:D:5:VAL:HG22	2:D:62:ARG:CD	2.35	0.55
2:D:75:SER:OG	2:D:76:VAL:N	2.39	0.55
2:D:68:LEU:HD12	2:D:97:ALA:HB2	1.88	0.55
1:E:209:ILE:CG2	1:E:227:LEU:HG	2.34	0.55
1:E:301:MET:HG3	1:E:307:PRO:CG	2.37	0.55
1:E:33:ASP:HA	1:E:85:GLN:CB	2.37	0.55
2:F:138:SER:CB	2:F:169:VAL:HB	2.36	0.55
2:F:382:ALA:HB2	2:F:415:MET:CE	2.37	0.55
2:F:68:LEU:HD12	2:F:97:ALA:HB2	1.88	0.55
1:A:33:ASP:HA	1:A:85:GLN:CB	2.37	0.55
2:B:138:SER:CB	2:B:169:VAL:HB	2.36	0.55
2:B:75:SER:OG	2:B:76:VAL:N	2.39	0.55
1:C:120:ASP:OD2	1:C:124:LYS:HE3	2.07	0.55
1:C:135:PHE:N	1:C:165:SER:O	2.36	0.55
2:D:30:ILE:HD13	2:D:59:TYR:HD2	1.72	0.55
1:E:120:ASP:OD2	1:E:124:LYS:HE3	2.07	0.55
1:E:135:PHE:N	1:E:165:SER:O	2.36	0.55
1:E:385:ALA:HB2	1:E:432:TYR:CD2	2.42	0.55
2:F:5:VAL:HG22	2:F:62:ARG:CD	2.35	0.55
2:F:75:SER:OG	2:F:76:VAL:N	2.39	0.55
1:A:135:PHE:N	1:A:165:SER:O	2.37	0.55
1:A:252:ILE:HA	1:A:255:PHE:CD2	2.37	0.55
1:A:385:ALA:HB2	1:A:432:TYR:CD2	2.42	0.55
2:B:207:LEU:HD23	2:B:225:LEU:HB3	1.89	0.55
2:B:30:ILE:HD13	2:B:59:TYR:HD2	1.72	0.55
1:C:252:ILE:HA	1:C:255:PHE:CD2	2.37	0.55
1:C:33:ASP:HA	1:C:85:GLN:CB	2.37	0.55
1:C:385:ALA:HB2	1:C:432:TYR:CD2	2.42	0.55
2:F:207:LEU:HD23	2:F:225:LEU:HB3	1.89	0.55
2:F:30:ILE:HD13	2:F:59:TYR:HD2	1.72	0.55
1:A:140:SER:HB3	3:A:501:GTP:O1A	2.06	0.55
1:A:407:TRP:CZ3	2:B:255:VAL:HG22	2.41	0.55
1:C:182:VAL:O	1:C:185:TYR:N	2.40	0.55
1:C:98:ASP:HB2	3:C:501:GTP:O2G	2.07	0.55
2:D:200:MET:CE	2:D:368:VAL:HG11	2.36	0.55
2:D:30:ILE:HG12	2:D:36:TYR:CA	2.36	0.55
1:E:182:VAL:O	1:E:185:TYR:N	2.40	0.55
1:E:252:ILE:HA	1:E:255:PHE:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:200:MET:CE	2:F:368:VAL:HG11	2.36	0.55
2:F:30:ILE:HG12	2:F:36:TYR:CA	2.36	0.55
1:A:182:VAL:O	1:A:185:TYR:N	2.40	0.55
1:A:52:PHE:O	1:A:64:ARG:HG3	2.06	0.55
1:A:98:ASP:HB2	3:A:501:GTP:O2G	2.07	0.55
2:B:2:ARG:CA	2:B:131:GLN:HB2	2.36	0.55
2:B:200:MET:CE	2:B:368:VAL:HG11	2.36	0.55
2:B:30:ILE:HG12	2:B:36:TYR:CA	2.36	0.55
1:C:140:SER:HB3	3:C:501:GTP:O1A	2.06	0.55
1:C:52:PHE:O	1:C:64:ARG:HG3	2.06	0.55
2:D:2:ARG:CA	2:D:131:GLN:HB2	2.36	0.55
1:C:407:TRP:CZ3	2:D:255:VAL:HG22	2.41	0.55
1:E:98:ASP:HB2	3:E:501:GTP:O2G	2.07	0.55
1:E:52:PHE:O	1:E:64:ARG:HG3	2.06	0.55
1:E:407:TRP:CZ3	2:F:255:VAL:HG22	2.41	0.55
1:A:428:LEU:HD23	1:A:431:ASP:OD2	2.07	0.55
2:B:62:ARG:HD3	2:B:127:CYS:SG	2.47	0.55
1:C:428:LEU:HD23	1:C:431:ASP:OD2	2.07	0.55
2:D:200:MET:HA	2:D:266:PHE:O	2.06	0.55
2:D:62:ARG:HD3	2:D:127:CYS:SG	2.47	0.55
1:E:140:SER:HB3	3:E:501:GTP:O1A	2.06	0.55
1:E:141:VAL:HG11	1:E:173:PRO:HD3	1.89	0.55
1:E:428:LEU:HD23	1:E:431:ASP:OD2	2.07	0.55
2:F:62:ARG:HD3	2:F:127:CYS:SG	2.47	0.55
2:F:2:ARG:CA	2:F:131:GLN:HB2	2.36	0.55
2:F:200:MET:HA	2:F:266:PHE:O	2.06	0.55
2:F:65:LEU:HB2	2:F:89:ASN:O	2.06	0.55
1:A:141:VAL:HG11	1:A:173:PRO:HD3	1.90	0.54
1:A:54:SER:HB3	1:A:62:VAL:CG2	2.36	0.54
2:B:210:ILE:O	2:B:215:LEU:N	2.33	0.54
1:A:98:ASP:OD2	2:B:252:LYS:HE2	2.07	0.54
2:B:200:MET:HA	2:B:266:PHE:O	2.06	0.54
2:B:65:LEU:HB2	2:B:89:ASN:O	2.06	0.54
1:C:103:PHE:O	1:C:107:HIS:CB	2.55	0.54
2:D:65:LEU:HB2	2:D:89:ASN:O	2.06	0.54
1:E:103:PHE:O	1:E:107:HIS:CB	2.55	0.54
1:E:54:SER:HB3	1:E:62:VAL:CG2	2.36	0.54
1:A:103:PHE:O	1:A:107:HIS:CB	2.55	0.54
2:B:237:THR:HG22	2:B:241:ARG:HG3	1.88	0.54
1:C:141:VAL:HG11	1:C:173:PRO:HD3	1.90	0.54
1:C:54:SER:HB3	1:C:62:VAL:CG2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:98:ASP:OD2	2:D:252:LYS:HE2	2.07	0.54
2:D:210:ILE:O	2:D:215:LEU:N	2.33	0.54
2:D:405:GLU:HA	2:D:408:PHE:CD2	2.41	0.54
1:E:271:SER:OG	1:E:301:MET:HA	2.07	0.54
2:F:210:ILE:O	2:F:215:LEU:N	2.33	0.54
1:E:98:ASP:OD2	2:F:252:LYS:HE2	2.07	0.54
2:F:405:GLU:HA	2:F:408:PHE:CD2	2.41	0.54
2:F:64:ILE:HD13	2:F:120:VAL:CG2	2.35	0.54
1:A:271:SER:OG	1:A:301:MET:HA	2.07	0.54
2:B:162:ARG:CZ	2:B:162:ARG:HA	2.37	0.54
2:B:405:GLU:HA	2:B:408:PHE:CD2	2.41	0.54
1:C:222:PRO:HG2	2:D:324:LYS:HB2	1.88	0.54
1:C:271:SER:OG	1:C:301:MET:HA	2.07	0.54
2:D:237:THR:HG22	2:D:241:ARG:HG3	1.89	0.54
2:D:64:ILE:HD13	2:D:120:VAL:CG2	2.36	0.54
1:E:222:PRO:HG2	2:F:324:LYS:HB2	1.88	0.54
2:F:237:THR:HG22	2:F:241:ARG:HG3	1.88	0.54
1:A:222:PRO:HG2	2:B:324:LYS:HB2	1.89	0.54
1:A:270:SER:O	1:A:302:MET:HB2	2.07	0.54
2:B:294:PHE:CD2	2:B:333:VAL:HG11	2.43	0.54
2:B:64:ILE:HD13	2:B:120:VAL:CG2	2.36	0.54
2:D:294:PHE:CD2	2:D:333:VAL:HG11	2.43	0.54
2:D:341:PHE:HB3	2:D:348:ASN:ND2	2.19	0.54
2:F:162:ARG:CZ	2:F:162:ARG:HA	2.37	0.54
2:F:294:PHE:CD2	2:F:333:VAL:HG11	2.43	0.54
1:A:288:VAL:HG22	1:A:373:ARG:CD	2.38	0.54
2:B:3:GLU:CB	2:B:49:VAL:HA	2.38	0.54
1:C:139:ASN:HB2	1:C:146:GLY:HA2	1.89	0.54
1:C:288:VAL:HG22	1:C:373:ARG:CD	2.38	0.54
1:C:270:SER:O	1:C:302:MET:HB2	2.07	0.54
2:D:162:ARG:CZ	2:D:162:ARG:HA	2.37	0.54
2:D:3:GLU:CB	2:D:49:VAL:HA	2.38	0.54
1:E:139:ASN:HB2	1:E:146:GLY:HA2	1.89	0.54
1:E:270:SER:O	1:E:302:MET:HB2	2.07	0.54
1:E:288:VAL:HG22	1:E:373:ARG:CD	2.38	0.54
1:A:139:ASN:HB2	1:A:146:GLY:HA2	1.90	0.54
2:B:252:LYS:O	2:B:256:ASN:CB	2.51	0.54
2:D:220:PRO:HD2	1:E:324:VAL:HG11	1.90	0.54
2:F:3:GLU:CB	2:F:49:VAL:HA	2.38	0.54
1:A:138:PHE:HA	1:A:169:PHE:O	2.07	0.54
2:B:395:LEU:O	2:B:399:THR:HG22	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:252:LYS:O	2:D:256:ASN:CB	2.51	0.54
2:F:395:LEU:O	2:F:399:THR:HG22	2.08	0.54
1:A:19:ALA:HB2	1:A:228:ASN:HB3	1.90	0.54
1:A:223:THR:HG23	1:A:225:THR:H	1.72	0.54
1:A:321:GLY:HA2	1:A:357:TYR:O	2.08	0.54
1:A:11:GLN:CB	3:A:501:GTP:O2A	2.56	0.54
1:C:138:PHE:HA	1:C:169:PHE:O	2.07	0.54
1:C:19:ALA:HB2	1:C:228:ASN:HB3	1.90	0.54
1:C:223:THR:HG23	1:C:225:THR:H	1.72	0.54
1:C:321:GLY:HA2	1:C:357:TYR:O	2.08	0.54
2:D:395:LEU:O	2:D:399:THR:HG22	2.08	0.54
1:E:138:PHE:HA	1:E:169:PHE:O	2.07	0.54
1:E:223:THR:HG23	1:E:225:THR:H	1.72	0.54
1:E:19:ALA:HB2	1:E:228:ASN:HB3	1.90	0.54
1:E:321:GLY:HA2	1:E:357:TYR:O	2.08	0.54
2:F:252:LYS:O	2:F:256:ASN:CB	2.51	0.54
1:A:155:GLU:HA	1:A:197:HIS:CG	2.43	0.54
2:B:87:PRO:HA	2:B:90:PHE:CD2	2.43	0.54
1:C:11:GLN:CB	3:C:501:GTP:O2A	2.56	0.54
1:C:155:GLU:HA	1:C:197:HIS:CG	2.43	0.54
2:D:87:PRO:HA	2:D:90:PHE:CD2	2.43	0.54
1:E:155:GLU:HA	1:E:197:HIS:CG	2.43	0.54
1:E:11:GLN:CB	3:E:501:GTP:O2A	2.56	0.54
2:F:318:ARG:HG2	2:F:354:CYS:HB3	1.88	0.54
1:A:213:CYS:O	1:A:217:LEU:HB2	2.08	0.54
1:A:11:GLN:HB3	3:A:501:GTP:O2A	2.07	0.54
2:B:318:ARG:HG2	2:B:354:CYS:HB3	1.88	0.54
2:B:269:GLY:N	2:B:367:PHE:O	2.40	0.54
1:C:260:VAL:C	2:B:394:PHE:CZ	2.82	0.54
1:C:213:CYS:O	1:C:217:LEU:HB2	2.08	0.54
1:C:26:LEU:HD23	1:C:363:VAL:HG22	1.90	0.54
2:D:271:ALA:HA	2:D:273:LEU:HD22	1.91	0.54
2:D:269:GLY:N	2:D:367:PHE:O	2.40	0.54
1:E:26:LEU:HD23	1:E:363:VAL:HG22	1.90	0.54
2:F:271:ALA:HA	2:F:273:LEU:HD22	1.90	0.54
2:F:87:PRO:HA	2:F:90:PHE:CD2	2.43	0.54
1:A:26:LEU:HD23	1:A:363:VAL:HG22	1.90	0.53
2:B:317:PHE:O	2:B:353:ILE:HD12	2.08	0.53
2:B:5:VAL:HG13	2:B:62:ARG:HG2	1.91	0.53
2:D:317:PHE:O	2:D:353:ILE:HD12	2.08	0.53
2:D:318:ARG:HG2	2:D:354:CYS:HB3	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:5:VAL:HG13	2:D:62:ARG:HG2	1.90	0.53
1:E:213:CYS:O	1:E:217:LEU:HB2	2.08	0.53
2:F:269:GLY:N	2:F:367:PHE:O	2.40	0.53
2:F:5:VAL:HG13	2:F:62:ARG:HG2	1.90	0.53
2:B:271:ALA:HA	2:B:273:LEU:HD22	1.91	0.53
1:C:11:GLN:HB3	3:C:501:GTP:O2A	2.07	0.53
1:C:59:GLY:HA2	1:C:61:HIS:CE1	2.42	0.53
2:D:309:ARG:NE	2:D:339:SER:O	2.42	0.53
1:E:11:GLN:HB3	3:E:501:GTP:O2A	2.07	0.53
2:F:317:PHE:O	2:F:353:ILE:HD12	2.08	0.53
1:A:59:GLY:HA2	1:A:61:HIS:CE1	2.42	0.53
2:B:309:ARG:NE	2:B:339:SER:O	2.42	0.53
1:C:155:GLU:HG3	1:C:197:HIS:NE2	2.23	0.53
1:C:168:GLY:HA3	1:C:201:ALA:HB2	1.89	0.53
1:E:168:GLY:HA3	1:E:201:ALA:HB2	1.89	0.53
2:F:309:ARG:NE	2:F:339:SER:O	2.42	0.53
1:A:168:GLY:HA3	1:A:201:ALA:HB2	1.89	0.53
1:A:204:LEU:HD13	1:A:231:ILE:HG12	1.91	0.53
1:A:108:TYR:HE2	1:A:413:MET:HB2	1.72	0.53
1:A:9:VAL:CG1	1:A:146:GLY:HA2	2.39	0.53
1:C:108:TYR:HE2	1:C:413:MET:HB2	1.72	0.53
1:C:204:LEU:HD13	1:C:231:ILE:HG12	1.91	0.53
2:D:396:HIS:CE1	1:E:260:VAL:O	2.62	0.53
1:E:271:SER:HA	1:E:302:MET:HG3	1.90	0.53
1:E:59:GLY:HA2	1:E:61:HIS:CE1	2.42	0.53
1:A:155:GLU:HG3	1:A:197:HIS:NE2	2.24	0.53
1:A:88:HIS:HB3	1:A:91:GLN:CD	2.28	0.53
1:C:256:GLN:O	1:C:260:VAL:HG22	2.08	0.53
1:C:331:SER:O	1:C:335:ILE:HG12	2.07	0.53
1:C:88:HIS:HB3	1:C:91:GLN:CD	2.28	0.53
2:D:237:THR:HG23	2:D:240:LEU:HB3	1.88	0.53
1:E:155:GLU:HG3	1:E:197:HIS:NE2	2.24	0.53
1:E:204:LEU:HD13	1:E:231:ILE:HG12	1.91	0.53
1:E:9:VAL:CG1	1:E:146:GLY:HA2	2.39	0.53
2:F:318:ARG:H	2:F:364:ALA:HB3	1.74	0.53
1:A:9:VAL:HG12	1:A:146:GLY:HA2	1.91	0.53
1:A:171:ILE:HG23	1:A:204:LEU:O	2.08	0.53
1:A:256:GLN:O	1:A:260:VAL:HG22	2.08	0.53
1:A:271:SER:HA	1:A:302:MET:HG3	1.91	0.53
1:A:331:SER:O	1:A:335:ILE:HG12	2.07	0.53
2:B:190:HIS:HA	2:B:414:ASN:ND2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:318:ARG:H	2:B:364:ALA:HB3	1.74	0.53
1:C:9:VAL:CG1	1:C:146:GLY:HA2	2.39	0.53
1:C:271:SER:HA	1:C:302:MET:HG3	1.91	0.53
2:D:318:ARG:H	2:D:364:ALA:HB3	1.74	0.53
1:E:256:GLN:O	1:E:260:VAL:HG22	2.08	0.53
1:E:331:SER:O	1:E:335:ILE:HG12	2.07	0.53
1:E:47:ASP:OD2	1:E:50:ASN:HB3	2.08	0.53
1:E:4:VAL:CG1	1:E:136:LEU:HG	2.39	0.53
1:E:88:HIS:HB3	1:E:91:GLN:CD	2.28	0.53
1:A:246:GLY:CA	1:A:356:ASN:HA	2.38	0.53
1:A:47:ASP:OD2	1:A:50:ASN:HB3	2.08	0.53
2:B:198:GLU:HA	2:B:264:HIS:HB2	1.91	0.53
2:B:237:THR:HG23	2:B:240:LEU:HB3	1.89	0.53
2:B:44:LEU:O	2:B:47:ILE:HG22	2.08	0.53
1:C:171:ILE:HG23	1:C:204:LEU:O	2.08	0.53
1:C:292:THR:HG21	1:C:331:SER:CB	2.36	0.53
1:C:4:VAL:CG1	1:C:136:LEU:HG	2.39	0.53
1:C:47:ASP:OD2	1:C:50:ASN:HB3	2.08	0.53
2:D:190:HIS:HA	2:D:414:ASN:ND2	2.23	0.53
2:D:44:LEU:O	2:D:47:ILE:HG22	2.08	0.53
1:E:9:VAL:HG12	1:E:146:GLY:HA2	1.91	0.53
1:E:274:PRO:HD3	1:E:291:ILE:CD1	2.39	0.53
1:E:292:THR:HG21	1:E:331:SER:CB	2.36	0.53
1:E:108:TYR:HE2	1:E:413:MET:HB2	1.72	0.53
2:F:198:GLU:HA	2:F:264:HIS:HB2	1.91	0.53
2:F:263:LEU:HG	2:F:422:TYR:CE1	2.43	0.53
1:A:274:PRO:HD3	1:A:291:ILE:CD1	2.39	0.53
1:A:292:THR:HG21	1:A:331:SER:CB	2.36	0.53
1:A:4:VAL:CG1	1:A:136:LEU:HG	2.39	0.53
2:B:162:ARG:NE	2:B:162:ARG:HA	2.24	0.53
2:B:263:LEU:HG	2:B:422:TYR:CE1	2.43	0.53
2:B:21:TRP:CE3	2:B:61:PRO:HB3	2.44	0.53
1:C:274:PRO:HD3	1:C:291:ILE:CD1	2.39	0.53
1:C:246:GLY:CA	1:C:356:ASN:HA	2.38	0.53
1:C:9:VAL:HG12	1:C:146:GLY:HA2	1.91	0.53
2:D:162:ARG:NE	2:D:162:ARG:HA	2.24	0.53
2:D:198:GLU:HA	2:D:264:HIS:HB2	1.91	0.53
2:D:263:LEU:HG	2:D:422:TYR:CE1	2.43	0.53
2:D:317:PHE:O	2:D:354:CYS:N	2.36	0.53
2:D:21:TRP:CE3	2:D:61:PRO:HB3	2.44	0.53
1:E:171:ILE:HG23	1:E:204:LEU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:162:ARG:NE	2:F:162:ARG:HA	2.24	0.53
2:F:190:HIS:HA	2:F:414:ASN:ND2	2.23	0.53
2:F:237:THR:HG23	2:F:240:LEU:HB3	1.88	0.53
2:F:317:PHE:O	2:F:354:CYS:N	2.36	0.53
2:F:44:LEU:O	2:F:47:ILE:HG22	2.08	0.53
1:A:31:GLN:HE21	1:A:37:PRO:HG3	1.74	0.53
2:B:317:PHE:O	2:B:354:CYS:N	2.36	0.53
2:B:303:ALA:HB1	2:B:373:ALA:CB	2.39	0.53
1:C:31:GLN:HE21	1:C:37:PRO:HG3	1.74	0.53
1:C:407:TRP:CE3	2:D:255:VAL:HG22	2.44	0.53
2:D:12:CYS:SG	5:D:501:GDP:C4	2.93	0.53
1:E:246:GLY:CA	1:E:356:ASN:HA	2.38	0.53
1:E:31:GLN:HE21	1:E:37:PRO:HG3	1.74	0.53
2:F:303:ALA:HB1	2:F:373:ALA:CB	2.39	0.53
2:F:21:TRP:CE3	2:F:61:PRO:HB3	2.44	0.53
2:B:12:CYS:SG	5:B:501:GDP:C4	2.94	0.53
2:B:395:LEU:O	2:B:398:TYR:HB2	2.09	0.53
1:C:210:TYR:CD1	2:D:324:LYS:HD3	2.44	0.53
2:D:303:ALA:HB1	2:D:373:ALA:CB	2.39	0.53
2:D:395:LEU:O	2:D:398:TYR:HB2	2.09	0.53
1:E:407:TRP:CE3	2:F:255:VAL:HG22	2.44	0.53
2:F:395:LEU:O	2:F:398:TYR:HB2	2.09	0.53
1:A:407:TRP:CE3	2:B:255:VAL:HG22	2.44	0.52
2:B:164:MET:N	2:B:197:ASP:OD2	2.41	0.52
1:C:324:VAL:HG11	2:B:220:PRO:HD2	1.91	0.52
2:B:309:ARG:HG3	2:B:340:TYR:C	2.29	0.52
2:B:309:ARG:HG3	2:B:340:TYR:O	2.08	0.52
2:B:48:ASN:OD1	2:B:49:VAL:N	2.41	0.52
1:C:166:LYS:HB2	1:C:199:ASP:HB2	1.91	0.52
2:D:164:MET:N	2:D:197:ASP:OD2	2.41	0.52
2:D:309:ARG:HG3	2:D:340:TYR:C	2.29	0.52
2:D:309:ARG:HG3	2:D:340:TYR:O	2.08	0.52
2:D:48:ASN:OD1	2:D:49:VAL:N	2.41	0.52
2:F:12:CYS:SG	5:F:501:GDP:C4	2.94	0.52
2:F:164:MET:N	2:F:197:ASP:OD2	2.41	0.52
2:F:309:ARG:HG3	2:F:340:TYR:C	2.29	0.52
2:F:310:TYR:O	2:F:342:VAL:HG22	2.08	0.52
2:F:48:ASN:OD1	2:F:49:VAL:N	2.41	0.52
1:A:210:TYR:CD1	2:B:324:LYS:HD3	2.44	0.52
2:B:310:TYR:O	2:B:342:VAL:HG22	2.08	0.52
1:C:102:ASN:HB3	1:C:105:ARG:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:310:TYR:O	2:D:342:VAL:HG22	2.08	0.52
1:E:166:LYS:HB2	1:E:199:ASP:HB2	1.92	0.52
1:E:210:TYR:CD1	2:F:324:LYS:HD3	2.44	0.52
2:D:394:PHE:CE1	1:E:260:VAL:C	2.83	0.52
2:F:180:VAL:O	2:F:184:ASN:ND2	2.42	0.52
2:F:309:ARG:HG3	2:F:340:TYR:O	2.08	0.52
1:A:166:LYS:HB2	1:A:199:ASP:HB2	1.92	0.52
1:C:346:TRP:N	2:B:391:ARG:HH12	1.88	0.52
2:D:180:VAL:O	2:D:184:ASN:ND2	2.42	0.52
2:D:341:PHE:CB	2:D:348:ASN:HD21	2.18	0.52
1:E:102:ASN:HB3	1:E:105:ARG:CB	2.40	0.52
1:E:12:GLY:O	1:E:15:GLN:HB2	2.09	0.52
1:A:102:ASN:HB3	1:A:105:ARG:CB	2.40	0.52
1:A:12:GLY:O	1:A:15:GLN:HB2	2.09	0.52
1:A:434:GLU:O	1:A:437:ILE:HG22	2.09	0.52
2:B:180:VAL:O	2:B:184:ASN:ND2	2.42	0.52
2:B:207:LEU:HB3	2:B:225:LEU:CD2	2.28	0.52
1:C:12:GLY:O	1:C:15:GLN:HB2	2.09	0.52
1:C:434:GLU:O	1:C:437:ILE:HG22	2.09	0.52
2:D:285:THR:CB	2:D:287:PRO:HD2	2.39	0.52
1:E:434:GLU:O	1:E:437:ILE:HG22	2.09	0.52
2:F:181:GLU:CG	2:F:182:PRO:HD3	2.39	0.52
2:F:207:LEU:HB3	2:F:225:LEU:CD2	2.28	0.52
2:F:285:THR:CB	2:F:287:PRO:HD2	2.39	0.52
2:F:341:PHE:CB	2:F:348:ASN:HD21	2.18	0.52
1:A:287:SER:OG	1:A:290:GLU:HG3	2.10	0.52
1:A:319:TYR:N	1:A:354:GLY:O	2.43	0.52
2:B:181:GLU:CG	2:B:182:PRO:HD3	2.39	0.52
2:B:285:THR:CB	2:B:287:PRO:HD2	2.39	0.52
2:B:341:PHE:CB	2:B:348:ASN:HD21	2.18	0.52
2:B:7:ILE:O	2:B:135:ILE:HA	2.10	0.52
1:C:287:SER:OG	1:C:290:GLU:HG3	2.10	0.52
2:D:207:LEU:HB3	2:D:225:LEU:CD2	2.28	0.52
2:D:391:ARG:NE	1:E:439:THR:OG1	2.41	0.52
2:D:7:ILE:O	2:D:135:ILE:HA	2.10	0.52
2:D:388:MET:CG	1:E:347:CYS:HA	2.37	0.52
1:E:319:TYR:N	1:E:354:GLY:O	2.43	0.52
2:F:7:ILE:O	2:F:135:ILE:HA	2.10	0.52
2:F:327:ASP:O	2:F:330:MET:HB2	2.09	0.52
1:A:264:ARG:HD2	1:A:428:LEU:HD21	1.91	0.52
1:A:407:TRP:NE1	2:B:255:VAL:HA	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:224:ASP:O	2:B:227:HIS:HB3	2.10	0.52
2:B:54:ALA:HB3	2:B:58:ARG:CB	2.34	0.52
2:B:5:VAL:HG22	2:B:62:ARG:CG	2.37	0.52
1:C:264:ARG:HD2	1:C:428:LEU:HD21	1.91	0.52
1:C:319:TYR:N	1:C:354:GLY:O	2.43	0.52
1:C:407:TRP:NE1	2:D:255:VAL:HA	2.24	0.52
2:D:181:GLU:CG	2:D:182:PRO:HD3	2.39	0.52
2:D:224:ASP:O	2:D:227:HIS:HB3	2.10	0.52
2:D:5:VAL:HG22	2:D:62:ARG:CG	2.37	0.52
1:E:114:ILE:HD11	1:E:149:LEU:CD1	2.39	0.52
1:E:264:ARG:HD2	1:E:428:LEU:HD21	1.91	0.52
1:E:287:SER:OG	1:E:290:GLU:HG3	2.10	0.52
1:E:407:TRP:NE1	2:F:255:VAL:HA	2.24	0.52
1:E:32:PRO:O	1:E:86:LEU:HB2	2.09	0.52
2:F:224:ASP:O	2:F:227:HIS:HB3	2.10	0.52
2:F:5:VAL:HG22	2:F:62:ARG:CG	2.37	0.52
1:A:114:ILE:HD11	1:A:149:LEU:CD1	2.39	0.52
1:A:280:LYS:O	1:A:284:GLU:HB2	2.09	0.52
1:A:32:PRO:O	1:A:86:LEU:HB2	2.09	0.52
2:B:185:ALA:O	2:B:189:VAL:HG23	2.10	0.52
2:B:327:ASP:O	2:B:330:MET:HB2	2.09	0.52
2:B:374:ILE:HD11	2:B:422:TYR:CE2	2.44	0.52
1:C:114:ILE:HD11	1:C:149:LEU:CD1	2.39	0.52
1:C:32:PRO:O	1:C:86:LEU:HB2	2.09	0.52
2:D:185:ALA:O	2:D:189:VAL:HG23	2.10	0.52
2:D:327:ASP:O	2:D:330:MET:HB2	2.09	0.52
2:F:185:ALA:O	2:F:189:VAL:HG23	2.10	0.52
2:F:169:VAL:HG22	2:F:202:ILE:CG2	2.40	0.52
1:A:406:HIS:HA	1:A:409:VAL:HG12	1.92	0.52
1:A:6:SER:HB2	1:A:65:ALA:CB	2.40	0.52
1:A:76:ASP:HA	1:A:79:ARG:HD3	1.92	0.52
2:B:169:VAL:HG22	2:B:202:ILE:CG2	2.40	0.52
2:B:187:LEU:HD11	2:B:408:PHE:CE1	2.44	0.52
1:C:406:HIS:HA	1:C:409:VAL:HG12	1.92	0.52
1:C:6:SER:HB2	1:C:65:ALA:CB	2.40	0.52
1:C:76:ASP:HA	1:C:79:ARG:HD3	1.92	0.52
2:D:169:VAL:HG22	2:D:202:ILE:CG2	2.40	0.52
2:D:293:MET:HG2	2:D:365:VAL:HG11	1.92	0.52
2:D:374:ILE:HD11	2:D:422:TYR:CE2	2.44	0.52
2:D:54:ALA:HB3	2:D:58:ARG:CB	2.34	0.52
1:E:406:HIS:HA	1:E:409:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:415:GLU:HA	1:E:418:PHE:CD2	2.43	0.52
1:E:76:ASP:HA	1:E:79:ARG:HD3	1.92	0.52
2:F:374:ILE:HD11	2:F:422:TYR:CE2	2.44	0.52
2:F:54:ALA:HB3	2:F:58:ARG:CB	2.34	0.52
1:A:118:CYS:O	1:A:122:ILE:HG12	2.10	0.52
1:A:415:GLU:HA	1:A:418:PHE:CD2	2.43	0.52
2:B:293:MET:HG2	2:B:365:VAL:HG11	1.92	0.52
1:C:118:CYS:O	1:C:122:ILE:HG12	2.10	0.52
1:C:280:LYS:O	1:C:284:GLU:HB2	2.09	0.52
1:C:415:GLU:HA	1:C:418:PHE:CD2	2.43	0.52
2:D:187:LEU:HD11	2:D:408:PHE:CE1	2.44	0.52
2:D:391:ARG:HH12	1:E:346:TRP:N	1.88	0.52
1:E:118:CYS:O	1:E:122:ILE:HG12	2.10	0.52
1:E:136:LEU:HD23	1:E:167:LEU:HB3	1.92	0.52
1:E:280:LYS:O	1:E:284:GLU:HB2	2.09	0.52
1:E:6:SER:HB2	1:E:65:ALA:CB	2.40	0.52
2:F:293:MET:HG2	2:F:365:VAL:HG11	1.92	0.52
2:F:187:LEU:HD11	2:F:408:PHE:CE1	2.44	0.52
1:A:136:LEU:HD23	1:A:167:LEU:HB3	1.92	0.52
1:C:136:LEU:HD23	1:C:167:LEU:HB3	1.92	0.52
1:C:439:THR:OG1	2:B:391:ARG:NE	2.42	0.52
2:F:296:ALA:O	2:F:299:MET:HB2	2.10	0.52
1:A:1:MET:O	1:A:131:GLY:HA3	2.11	0.51
2:B:5:VAL:H	2:B:133:PHE:HA	1.74	0.51
2:B:274:THR:HG22	2:B:282:ARG:HH21	1.74	0.51
2:B:296:ALA:O	2:B:299:MET:HB2	2.10	0.51
2:B:14:ASN:CB	2:B:72:THR:HG21	2.35	0.51
2:B:75:SER:HG	2:B:76:VAL:H	1.58	0.51
1:C:1:MET:O	1:C:131:GLY:HA3	2.11	0.51
1:C:260:VAL:C	2:B:394:PHE:CE1	2.83	0.51
2:D:274:THR:HG22	2:D:282:ARG:HH21	1.74	0.51
2:D:296:ALA:O	2:D:299:MET:HB2	2.10	0.51
2:D:14:ASN:CB	2:D:72:THR:HG21	2.35	0.51
2:D:75:SER:HG	2:D:76:VAL:H	1.58	0.51
1:E:1:MET:O	1:E:131:GLY:HA3	2.11	0.51
2:F:274:THR:HG22	2:F:282:ARG:HH21	1.74	0.51
2:F:75:SER:HG	2:F:76:VAL:H	1.58	0.51
2:B:24:ILE:HA	2:B:27:GLU:CG	2.39	0.51
2:B:266:PHE:HD1	2:B:370:ASN:HB2	1.74	0.51
2:D:24:ILE:HA	2:D:27:GLU:CG	2.38	0.51
2:D:266:PHE:HD1	2:D:370:ASN:HB2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:297:GLU:HB3	1:E:300:ASN:HB2	1.92	0.51
2:F:180:VAL:HG23	2:F:184:ASN:HD21	1.75	0.51
2:F:5:VAL:H	2:F:133:PHE:HA	1.74	0.51
2:F:14:ASN:CB	2:F:72:THR:HG21	2.35	0.51
2:B:108:GLU:N	2:B:108:GLU:OE1	2.43	0.51
2:B:180:VAL:HG23	2:B:184:ASN:HD21	1.76	0.51
2:B:53:GLU:HG3	2:B:59:TYR:CE1	2.39	0.51
2:B:68:LEU:CD1	2:B:97:ALA:HB2	2.41	0.51
1:C:297:GLU:HB3	1:C:300:ASN:HB2	1.92	0.51
2:D:152:ILE:HD13	2:D:192:LEU:HD23	1.92	0.51
2:D:180:VAL:HG23	2:D:184:ASN:HD21	1.76	0.51
2:D:53:GLU:HG3	2:D:59:TYR:CE1	2.39	0.51
2:D:5:VAL:H	2:D:133:PHE:HA	1.74	0.51
2:D:68:LEU:CD1	2:D:97:ALA:HB2	2.41	0.51
2:F:211:CYS:O	2:F:217:LEU:N	2.38	0.51
2:F:24:ILE:HA	2:F:27:GLU:CG	2.39	0.51
2:F:266:PHE:HD1	2:F:370:ASN:HB2	1.74	0.51
2:F:53:GLU:HG3	2:F:59:TYR:CE1	2.39	0.51
2:F:68:LEU:CD1	2:F:97:ALA:HB2	2.41	0.51
1:A:297:GLU:HB3	1:A:300:ASN:HB2	1.92	0.51
1:A:311:LYS:N	1:A:382:THR:OG1	2.41	0.51
2:B:152:ILE:HD13	2:B:192:LEU:HD23	1.92	0.51
1:C:260:VAL:O	2:B:396:HIS:CE1	2.64	0.51
2:D:108:GLU:N	2:D:108:GLU:OE1	2.43	0.51
2:D:183:TYR:HE1	2:D:389:PHE:HD1	1.57	0.51
2:F:108:GLU:N	2:F:108:GLU:OE1	2.43	0.51
2:F:152:ILE:HD13	2:F:192:LEU:HD23	1.92	0.51
2:B:199:CYS:HB2	2:B:265:PHE:CD1	2.44	0.51
2:B:211:CYS:O	2:B:217:LEU:N	2.38	0.51
2:B:329:GLN:O	2:B:333:VAL:HG23	2.10	0.51
2:B:289:LEU:CB	2:B:365:VAL:HG21	2.38	0.51
2:B:183:TYR:HE1	2:B:389:PHE:HD1	1.57	0.51
1:C:311:LYS:N	1:C:382:THR:OG1	2.41	0.51
2:D:211:CYS:O	2:D:217:LEU:N	2.38	0.51
2:D:289:LEU:CB	2:D:365:VAL:HG21	2.38	0.51
1:E:311:LYS:N	1:E:382:THR:OG1	2.41	0.51
2:F:183:TYR:HE1	2:F:389:PHE:HD1	1.57	0.51
1:A:224:TYR:O	1:A:228:ASN:ND2	2.44	0.51
2:B:248:SER:HA	2:B:252:LYS:HD2	1.92	0.51
2:B:284:LEU:HB3	2:B:363:MET:SD	2.50	0.51
1:C:7:ILE:HB	1:C:137:VAL:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:224:TYR:O	1:C:228:ASN:ND2	2.44	0.51
2:D:101:TRP:CZ3	2:D:187:LEU:HB3	2.46	0.51
2:D:199:CYS:HB2	2:D:265:PHE:CD1	2.44	0.51
2:D:248:SER:HA	2:D:252:LYS:HD2	1.92	0.51
1:E:224:TYR:O	1:E:228:ASN:ND2	2.44	0.51
2:F:101:TRP:CZ3	2:F:187:LEU:HB3	2.46	0.51
2:F:329:GLN:O	2:F:333:VAL:HG23	2.11	0.51
2:F:284:LEU:HB3	2:F:363:MET:SD	2.50	0.51
2:B:101:TRP:CZ3	2:B:187:LEU:HB3	2.46	0.51
1:C:181:VAL:HG12	1:C:398:MET:CE	2.41	0.51
2:D:284:LEU:HB3	2:D:363:MET:SD	2.50	0.51
2:D:329:GLN:O	2:D:333:VAL:HG23	2.11	0.51
1:E:181:VAL:HG12	1:E:398:MET:CE	2.41	0.51
2:F:199:CYS:HB2	2:F:265:PHE:CD1	2.44	0.51
2:F:248:SER:HA	2:F:252:LYS:HD2	1.92	0.51
2:F:289:LEU:CB	2:F:365:VAL:HG21	2.38	0.51
1:A:7:ILE:HB	1:A:137:VAL:HA	1.93	0.51
1:A:181:VAL:HG12	1:A:398:MET:CE	2.41	0.51
1:A:406:HIS:HA	1:A:409:VAL:CG1	2.40	0.51
1:A:5:ILE:O	1:A:136:LEU:HB2	2.11	0.51
1:C:262:TYR:HB3	1:C:263:PRO:HD2	1.93	0.51
1:C:246:GLY:HA3	1:C:356:ASN:HA	1.93	0.51
1:E:230:LEU:HD21	1:E:302:MET:HE1	1.92	0.51
1:E:262:TYR:HB3	1:E:263:PRO:HD2	1.93	0.51
2:D:208:TYR:HE2	1:E:329:ASN:HD22	1.59	0.51
2:F:263:LEU:HG	2:F:422:TYR:CZ	2.46	0.51
1:A:12:GLY:O	1:A:16:VAL:HG23	2.10	0.51
1:A:240:ALA:HA	1:A:243:ARG:CZ	2.40	0.51
1:A:246:GLY:HA3	1:A:356:ASN:HA	1.93	0.51
1:A:416:GLY:O	1:A:420:GLU:CB	2.58	0.51
2:B:1:MET:H1	2:B:129:CYS:HB3	1.76	0.51
2:B:272:PRO:O	2:B:273:LEU:HD22	2.11	0.51
2:B:263:LEU:HG	2:B:422:TYR:CZ	2.46	0.51
1:C:5:ILE:O	1:C:136:LEU:HB2	2.11	0.51
1:C:240:ALA:HA	1:C:243:ARG:CZ	2.40	0.51
1:C:230:LEU:HD21	1:C:302:MET:HE1	1.92	0.51
1:C:406:HIS:HA	1:C:409:VAL:CG1	2.40	0.51
1:C:416:GLY:O	1:C:420:GLU:CB	2.58	0.51
2:D:249:ASP:O	2:D:253:LEU:HG	2.10	0.51
2:D:272:PRO:O	2:D:273:LEU:HD22	2.11	0.51
2:D:263:LEU:HG	2:D:422:TYR:CZ	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:7:ILE:HB	1:E:137:VAL:HA	1.93	0.51
1:E:246:GLY:HA3	1:E:356:ASN:HA	1.93	0.51
1:E:416:GLY:O	1:E:420:GLU:CB	2.58	0.51
1:E:5:ILE:O	1:E:136:LEU:HB2	2.11	0.51
2:F:1:MET:H1	2:F:129:CYS:HB3	1.76	0.51
2:F:249:ASP:O	2:F:253:LEU:HG	2.10	0.51
2:F:42:LEU:HA	2:F:45:GLU:CG	2.41	0.51
1:A:139:ASN:O	1:A:170:THR:HA	2.10	0.51
1:A:230:LEU:HD21	1:A:302:MET:HE1	1.92	0.51
1:A:262:TYR:HB3	1:A:263:PRO:HD2	1.93	0.51
1:A:324:VAL:HG12	1:A:326:LYS:H	1.76	0.51
2:B:154:LYS:HA	2:B:154:LYS:HE2	1.93	0.51
2:B:249:ASP:O	2:B:253:LEU:HG	2.10	0.51
2:B:42:LEU:HA	2:B:45:GLU:CG	2.41	0.51
1:C:139:ASN:O	1:C:170:THR:HA	2.10	0.51
1:C:324:VAL:HG12	1:C:326:LYS:H	1.76	0.51
2:D:1:MET:H1	2:D:129:CYS:HB3	1.76	0.51
2:D:42:LEU:HA	2:D:45:GLU:CG	2.41	0.51
1:E:139:ASN:O	1:E:170:THR:HA	2.10	0.51
1:E:211:ASP:O	1:E:214:ARG:HG3	2.11	0.51
1:E:240:ALA:HA	1:E:243:ARG:CZ	2.40	0.51
1:E:406:HIS:HA	1:E:409:VAL:CG1	2.40	0.51
2:F:154:LYS:HE2	2:F:154:LYS:HA	1.93	0.51
2:F:166:THR:HB	2:F:199:CYS:SG	2.51	0.51
2:F:272:PRO:O	2:F:273:LEU:HD22	2.11	0.51
1:A:211:ASP:O	1:A:214:ARG:HG3	2.11	0.50
1:A:407:TRP:CH2	2:B:255:VAL:HG22	2.47	0.50
2:B:82:GLY:HA2	2:B:85:PHE:CD2	2.46	0.50
1:C:12:GLY:O	1:C:16:VAL:HG23	2.10	0.50
1:C:211:ASP:O	1:C:214:ARG:HG3	2.11	0.50
2:D:154:LYS:HE2	2:D:154:LYS:HA	1.93	0.50
2:D:166:THR:HB	2:D:199:CYS:SG	2.51	0.50
1:C:407:TRP:CH2	2:D:255:VAL:HG22	2.47	0.50
1:E:12:GLY:O	1:E:16:VAL:HG23	2.10	0.50
1:E:407:TRP:CH2	2:F:255:VAL:HG22	2.47	0.50
2:F:84:LEU:O	2:F:84:LEU:HD23	2.11	0.50
1:A:14:ILE:HD11	1:A:74:VAL:HG23	1.93	0.50
2:B:84:LEU:O	2:B:84:LEU:HD23	2.11	0.50
1:C:210:TYR:HB3	2:D:324:LYS:HE2	1.94	0.50
1:C:347:CYS:HA	2:B:388:MET:CG	2.39	0.50
1:C:14:ILE:HD11	1:C:74:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:84:LEU:O	2:D:84:LEU:HD23	2.11	0.50
1:E:210:TYR:HB3	2:F:324:LYS:HE2	1.94	0.50
1:E:250:VAL:HG23	1:E:254:GLU:CD	2.30	0.50
1:E:324:VAL:HG12	1:E:326:LYS:H	1.76	0.50
1:A:210:TYR:HB3	2:B:324:LYS:HE2	1.94	0.50
1:A:250:VAL:HG23	1:A:254:GLU:CD	2.30	0.50
2:B:107:THR:HB	2:B:108:GLU:OE1	2.11	0.50
2:B:166:THR:HB	2:B:199:CYS:SG	2.51	0.50
1:C:250:VAL:HG23	1:C:254:GLU:CD	2.30	0.50
2:D:107:THR:HB	2:D:108:GLU:OE1	2.11	0.50
2:D:82:GLY:HA2	2:D:85:PHE:CD2	2.46	0.50
1:E:313:MET:HG2	1:E:344:VAL:HG11	1.93	0.50
1:E:14:ILE:HD11	1:E:74:VAL:HG23	1.93	0.50
2:F:107:THR:HB	2:F:108:GLU:OE1	2.11	0.50
2:F:161:ASP:O	2:F:162:ARG:NH2	2.44	0.50
2:F:82:GLY:HA2	2:F:85:PHE:CD2	2.46	0.50
1:A:135:PHE:O	1:A:167:LEU:HB2	2.12	0.50
1:A:291:ILE:O	1:A:295:ALA:HB2	2.11	0.50
1:A:313:MET:HG2	1:A:344:VAL:HG11	1.93	0.50
1:A:217:LEU:HD13	1:A:367:ASP:OD2	2.11	0.50
1:A:102:ASN:HD22	1:A:411:GLU:HG3	1.76	0.50
2:B:161:ASP:O	2:B:162:ARG:NH2	2.44	0.50
2:B:317:PHE:HA	2:B:364:ALA:O	2.11	0.50
2:B:309:ARG:HD3	2:B:342:VAL:HA	1.93	0.50
2:B:69:GLU:HA	2:B:93:GLY:O	2.11	0.50
1:C:102:ASN:HD22	1:C:411:GLU:HG3	1.76	0.50
1:C:291:ILE:O	1:C:295:ALA:HB2	2.11	0.50
1:C:313:MET:HG2	1:C:344:VAL:HG11	1.93	0.50
2:D:161:ASP:O	2:D:162:ARG:NH2	2.44	0.50
2:D:405:GLU:O	2:D:408:PHE:HB2	2.11	0.50
2:D:70:PRO:HD2	1:E:1:MET:HE1	0.62	0.50
1:E:102:ASN:HD22	1:E:411:GLU:HG3	1.76	0.50
1:E:135:PHE:O	1:E:167:LEU:HB2	2.12	0.50
2:F:309:ARG:HD3	2:F:342:VAL:HA	1.93	0.50
2:F:317:PHE:HA	2:F:364:ALA:O	2.11	0.50
2:B:149:THR:O	2:B:152:ILE:HG12	2.11	0.50
2:B:187:LEU:HD13	2:B:403:MET:CE	2.42	0.50
2:B:405:GLU:O	2:B:408:PHE:HB2	2.11	0.50
1:C:135:PHE:O	1:C:167:LEU:HB2	2.12	0.50
2:D:309:ARG:HD3	2:D:342:VAL:HA	1.93	0.50
2:D:69:GLU:HA	2:D:93:GLY:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:291:ILE:O	1:E:295:ALA:HB2	2.11	0.50
1:E:217:LEU:HD13	1:E:367:ASP:OD2	2.11	0.50
2:F:99:ASN:OD1	2:F:143:THR:HG23	2.12	0.50
2:F:149:THR:O	2:F:152:ILE:HG12	2.11	0.50
2:F:367:PHE:CZ	2:F:369:GLY:HA3	2.45	0.50
2:F:405:GLU:O	2:F:408:PHE:HB2	2.11	0.50
2:F:69:GLU:HA	2:F:93:GLY:O	2.11	0.50
1:A:185:TYR:HE2	1:A:404:PHE:HB2	1.76	0.50
1:A:21:TRP:CE3	1:A:63:PRO:HB3	2.47	0.50
2:B:99:ASN:OD1	2:B:143:THR:HG23	2.12	0.50
2:B:289:LEU:HD13	2:B:365:VAL:HG23	1.94	0.50
2:B:311:LEU:HB2	2:B:370:ASN:O	2.11	0.50
1:C:21:TRP:CE3	1:C:63:PRO:HB3	2.47	0.50
1:C:217:LEU:HD13	1:C:367:ASP:OD2	2.12	0.50
1:C:185:TYR:HE2	1:C:404:PHE:HB2	1.76	0.50
2:D:99:ASN:OD1	2:D:143:THR:HG23	2.12	0.50
2:D:149:THR:O	2:D:152:ILE:HG12	2.11	0.50
2:D:187:LEU:HD13	2:D:403:MET:CE	2.42	0.50
2:D:220:PRO:O	1:E:325:PRO:HD2	2.12	0.50
2:D:317:PHE:HA	2:D:364:ALA:O	2.11	0.50
2:D:367:PHE:CZ	2:D:369:GLY:HA3	2.45	0.50
2:D:311:LEU:HB2	2:D:370:ASN:O	2.11	0.50
2:D:177:ASP:C	1:E:351:PHE:O	2.50	0.50
1:E:21:TRP:CE3	1:E:63:PRO:HB3	2.46	0.50
2:F:113:ILE:HD11	2:F:151:LEU:HD23	1.94	0.50
2:F:289:LEU:HD13	2:F:365:VAL:HG23	1.94	0.50
2:F:311:LEU:HB2	2:F:370:ASN:O	2.11	0.50
2:F:187:LEU:HD13	2:F:403:MET:CE	2.42	0.50
1:A:102:ASN:ND2	1:A:411:GLU:HG3	2.27	0.50
1:A:153:LEU:HD23	1:A:156:ARG:NH2	2.26	0.50
1:A:139:ASN:C	1:A:170:THR:HG23	2.32	0.50
2:B:113:ILE:HD11	2:B:151:LEU:HD23	1.94	0.50
2:B:367:PHE:CZ	2:B:369:GLY:HA3	2.45	0.50
2:B:374:ILE:HD11	2:B:422:TYR:HE2	1.77	0.50
1:C:102:ASN:ND2	1:C:411:GLU:HG3	2.27	0.50
1:C:139:ASN:C	1:C:170:THR:HG23	2.32	0.50
1:E:139:ASN:C	1:E:170:THR:HG23	2.32	0.50
1:E:185:TYR:HE2	1:E:404:PHE:HB2	1.76	0.50
2:F:374:ILE:HD11	2:F:422:TYR:HE2	1.77	0.50
1:A:34:GLY:O	1:A:61:HIS:ND1	2.39	0.50
1:C:153:LEU:HD23	1:C:156:ARG:NH2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:325:PRO:HD2	2:B:220:PRO:O	2.12	0.50
1:C:34:GLY:O	1:C:61:HIS:ND1	2.39	0.50
2:D:113:ILE:HD11	2:D:151:LEU:HD23	1.94	0.50
2:D:208:TYR:CD2	1:E:326:LYS:HD2	2.46	0.50
2:D:289:LEU:HD13	2:D:365:VAL:HG23	1.94	0.50
2:D:374:ILE:HD11	2:D:422:TYR:HE2	1.77	0.50
2:D:5:VAL:O	2:D:133:PHE:HA	2.12	0.50
1:E:102:ASN:ND2	1:E:411:GLU:HG3	2.27	0.50
1:E:153:LEU:HD23	1:E:156:ARG:NH2	2.26	0.50
1:E:188:ILE:HD12	1:E:189:LEU:N	2.27	0.50
1:A:188:ILE:HD12	1:A:189:LEU:N	2.27	0.50
1:C:329:ASN:HD22	2:B:208:TYR:HE2	1.60	0.50
1:C:188:ILE:HD12	1:C:189:LEU:N	2.27	0.50
1:C:428:LEU:HA	1:C:431:ASP:OD2	2.12	0.50
2:D:220:PRO:HG3	1:E:326:LYS:HB3	1.93	0.50
2:D:318:ARG:CB	2:D:364:ALA:HB3	2.40	0.50
2:F:5:VAL:O	2:F:133:PHE:HA	2.12	0.50
2:F:318:ARG:CB	2:F:364:ALA:HB3	2.40	0.50
1:A:428:LEU:HA	1:A:431:ASP:OD2	2.12	0.49
2:B:318:ARG:CB	2:B:364:ALA:HB3	2.40	0.49
1:C:102:ASN:HB3	1:C:105:ARG:HB2	1.94	0.49
1:E:102:ASN:HB3	1:E:105:ARG:HB2	1.94	0.49
1:E:34:GLY:O	1:E:61:HIS:ND1	2.39	0.49
1:A:102:ASN:HB3	1:A:105:ARG:HB2	1.95	0.49
1:A:15:GLN:CG	3:A:501:GTP:O6	2.56	0.49
2:B:15:GLN:O	2:B:18:ALA:HB3	2.12	0.49
2:B:24:ILE:CA	2:B:27:GLU:HG2	2.39	0.49
2:B:268:ILE:HG12	2:B:368:VAL:HG22	1.93	0.49
2:B:5:VAL:O	2:B:133:PHE:HA	2.12	0.49
2:B:65:LEU:HD13	2:B:89:ASN:HB3	1.93	0.49
2:B:74:ASP:CA	2:B:77:ARG:HB3	2.40	0.49
1:C:15:GLN:CG	3:C:501:GTP:O6	2.56	0.49
2:D:24:ILE:CA	2:D:27:GLU:HG2	2.39	0.49
2:D:268:ILE:HG12	2:D:368:VAL:HG22	1.93	0.49
1:E:428:LEU:HA	1:E:431:ASP:OD2	2.12	0.49
1:E:15:GLN:CG	3:E:501:GTP:O6	2.56	0.49
2:F:268:ILE:HG12	2:F:368:VAL:HG22	1.93	0.49
2:F:65:LEU:HD13	2:F:89:ASN:HB3	1.93	0.49
2:F:74:ASP:CA	2:F:77:ARG:HB3	2.40	0.49
1:A:276:ILE:CD1	1:A:286:LEU:HD11	2.42	0.49
1:C:155:GLU:HG3	1:C:197:HIS:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:276:ILE:CD1	1:C:286:LEU:HD11	2.42	0.49
1:C:297:GLU:HG3	1:C:300:ASN:H	1.78	0.49
2:D:6:HIS:ND1	2:D:134:GLN:O	2.44	0.49
2:D:15:GLN:O	2:D:18:ALA:HB3	2.12	0.49
2:D:374:ILE:O	2:D:377:MET:HB3	2.12	0.49
2:D:394:PHE:CD1	1:E:258:ASN:CA	2.83	0.49
2:D:65:LEU:HD13	2:D:89:ASN:HB3	1.93	0.49
2:D:74:ASP:CA	2:D:77:ARG:HB3	2.40	0.49
1:E:276:ILE:CD1	1:E:286:LEU:HD11	2.42	0.49
2:F:6:HIS:ND1	2:F:134:GLN:O	2.45	0.49
2:F:15:GLN:O	2:F:18:ALA:HB3	2.12	0.49
2:F:374:ILE:O	2:F:377:MET:HB3	2.12	0.49
1:A:108:TYR:O	1:A:112:LYS:HG2	2.11	0.49
1:A:155:GLU:HG3	1:A:197:HIS:CE1	2.48	0.49
1:A:297:GLU:HG3	1:A:300:ASN:H	1.78	0.49
2:B:12:CYS:O	2:B:15:GLN:N	2.45	0.49
2:B:6:HIS:ND1	2:B:134:GLN:O	2.45	0.49
2:B:31:ASP:HB3	2:B:37:HIS:CE1	2.48	0.49
2:B:374:ILE:O	2:B:377:MET:HB3	2.12	0.49
1:C:140:SER:OG	3:C:501:GTP:H4'	2.12	0.49
1:C:33:ASP:OD1	1:C:34:GLY:N	2.45	0.49
2:D:31:ASP:HB3	2:D:37:HIS:CE1	2.48	0.49
1:E:155:GLU:HG3	1:E:197:HIS:CE1	2.48	0.49
1:E:297:GLU:HG3	1:E:300:ASN:H	1.78	0.49
1:E:33:ASP:OD1	1:E:34:GLY:N	2.45	0.49
2:F:271:ALA:HB1	2:F:292:GLN:OE1	2.13	0.49
2:F:24:ILE:CA	2:F:27:GLU:HG2	2.39	0.49
2:F:31:ASP:HB3	2:F:37:HIS:CE1	2.48	0.49
1:A:33:ASP:OD1	1:A:34:GLY:N	2.45	0.49
1:A:10:GLY:CA	3:A:501:GTP:PA	3.01	0.49
2:B:271:ALA:HB1	2:B:292:GLN:OE1	2.13	0.49
2:B:42:LEU:HG	2:B:242:PHE:CD1	2.47	0.49
1:C:10:GLY:CA	3:C:501:GTP:PA	3.01	0.49
1:C:108:TYR:O	1:C:112:LYS:HG2	2.11	0.49
2:D:12:CYS:O	2:D:15:GLN:N	2.45	0.49
2:D:271:ALA:HB1	2:D:292:GLN:OE1	2.13	0.49
2:D:42:LEU:HG	2:D:242:PHE:CD1	2.47	0.49
1:E:10:GLY:CA	3:E:501:GTP:PA	3.01	0.49
1:E:108:TYR:O	1:E:112:LYS:HG2	2.11	0.49
1:E:140:SER:OG	3:E:501:GTP:H4'	2.12	0.49
2:F:12:CYS:O	2:F:15:GLN:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:42:LEU:HG	2:F:242:PHE:CD1	2.47	0.49
1:A:140:SER:OG	3:A:501:GTP:H4'	2.12	0.49
2:B:169:VAL:HG11	5:B:501:GDP:C1'	2.43	0.49
2:B:54:ALA:CB	2:B:58:ARG:HB2	2.35	0.49
2:B:68:LEU:HB2	2:B:96:GLY:HA2	1.94	0.49
2:D:216:LYS:HB2	2:D:275:SER:OG	2.13	0.49
2:D:169:VAL:HG11	5:D:501:GDP:C1'	2.43	0.49
2:F:169:VAL:HG11	5:F:501:GDP:C1'	2.43	0.49
2:B:105:HIS:C	2:B:109:GLY:HA3	2.33	0.49
2:B:216:LYS:HB2	2:B:275:SER:OG	2.13	0.49
2:D:105:HIS:C	2:D:109:GLY:HA3	2.33	0.49
2:D:54:ALA:CB	2:D:58:ARG:HB2	2.35	0.49
2:D:73:MET:HE3	2:D:91:VAL:O	2.13	0.49
2:F:216:LYS:HB2	2:F:275:SER:OG	2.13	0.49
2:F:233:MET:O	2:F:236:VAL:HG22	2.11	0.49
2:F:54:ALA:CB	2:F:58:ARG:HB2	2.35	0.49
2:F:73:MET:HE3	2:F:91:VAL:O	2.13	0.49
1:A:380:ASN:HD22	1:A:381:SER:N	2.11	0.49
2:B:233:MET:O	2:B:236:VAL:HG22	2.11	0.49
1:C:107:HIS:HB2	1:C:148:GLY:HA3	1.94	0.49
1:C:380:ASN:HD22	1:C:381:SER:N	2.11	0.49
2:D:233:MET:O	2:D:236:VAL:HG22	2.11	0.49
2:D:295:ASP:OD2	2:D:297:LYS:HB2	2.13	0.49
2:D:68:LEU:HB2	2:D:96:GLY:HA2	1.94	0.49
1:E:107:HIS:HB2	1:E:148:GLY:HA3	1.94	0.49
2:F:295:ASP:OD2	2:F:297:LYS:HB2	2.13	0.49
2:F:68:LEU:HB2	2:F:96:GLY:HA2	1.94	0.49
1:A:107:HIS:HB2	1:A:148:GLY:HA3	1.94	0.49
2:B:295:ASP:OD2	2:B:297:LYS:HB2	2.13	0.49
2:B:73:MET:HE3	2:B:91:VAL:O	2.13	0.49
1:C:298:PRO:HG2	1:C:308:ARG:NE	2.28	0.49
1:E:298:PRO:HG2	1:E:308:ARG:NE	2.28	0.49
1:E:380:ASN:HD22	1:E:381:SER:N	2.11	0.49
1:E:423:GLU:O	1:E:426:ALA:HB3	2.13	0.49
2:F:105:HIS:C	2:F:109:GLY:HA3	2.33	0.49
1:A:298:PRO:HG2	1:A:308:ARG:NE	2.28	0.49
2:B:99:ASN:ND2	2:B:143:THR:HG23	2.28	0.49
2:B:19:LYS:O	2:B:22:GLU:HB3	2.13	0.49
2:B:231:ALA:O	2:B:234:SER:OG	2.24	0.49
2:B:316:LEU:HA	2:B:352:SER:OG	2.13	0.49
1:C:141:VAL:HG12	1:C:171:ILE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:PHE:O	2:B:177:ASP:C	2.51	0.49
1:C:99:ALA:HB1	1:C:102:ASN:O	2.12	0.49
2:D:19:LYS:O	2:D:22:GLU:HB3	2.13	0.49
2:D:394:PHE:CZ	1:E:260:VAL:C	2.83	0.49
2:D:382:ALA:HB2	2:D:415:MET:HE1	1.94	0.49
1:E:99:ALA:HB1	1:E:102:ASN:O	2.12	0.49
1:E:141:VAL:HG12	1:E:171:ILE:O	2.13	0.49
2:F:382:ALA:HB2	2:F:415:MET:HE1	1.95	0.49
1:A:141:VAL:HG12	1:A:171:ILE:O	2.13	0.48
1:A:307:PRO:HB2	1:A:312:TYR:OH	2.13	0.48
1:A:423:GLU:O	1:A:426:ALA:HB3	2.13	0.48
2:B:334:GLN:HA	2:B:341:PHE:CE2	2.48	0.48
2:B:382:ALA:HB2	2:B:415:MET:HE3	1.95	0.48
2:B:52:ASN:HD21	2:B:62:ARG:HE	1.59	0.48
1:C:307:PRO:HB2	1:C:312:TYR:OH	2.13	0.48
1:C:423:GLU:O	1:C:426:ALA:HB3	2.13	0.48
2:D:99:ASN:ND2	2:D:143:THR:HG23	2.28	0.48
2:D:231:ALA:O	2:D:234:SER:OG	2.24	0.48
2:D:334:GLN:HA	2:D:341:PHE:CE2	2.48	0.48
2:D:316:LEU:HA	2:D:352:SER:OG	2.13	0.48
1:E:307:PRO:HB2	1:E:312:TYR:OH	2.13	0.48
2:F:99:ASN:ND2	2:F:143:THR:HG23	2.28	0.48
2:F:211:CYS:HA	2:F:215:LEU:HD22	1.95	0.48
2:F:19:LYS:O	2:F:22:GLU:HB3	2.13	0.48
2:F:231:ALA:O	2:F:234:SER:OG	2.24	0.48
2:F:334:GLN:HA	2:F:341:PHE:CE2	2.48	0.48
1:A:99:ALA:HB1	1:A:102:ASN:O	2.12	0.48
1:A:212:ILE:CG2	1:A:275:ILE:HD11	2.43	0.48
1:A:76:ASP:O	1:A:80:THR:N	2.46	0.48
2:B:211:CYS:HA	2:B:215:LEU:HD22	1.95	0.48
2:B:317:PHE:HE2	2:B:326:VAL:HG13	1.77	0.48
2:B:313:ALA:HB1	2:B:367:PHE:HE1	1.78	0.48
1:C:212:ILE:CG2	1:C:275:ILE:HD11	2.43	0.48
1:C:76:ASP:O	1:C:80:THR:N	2.46	0.48
2:D:211:CYS:HA	2:D:215:LEU:HD22	1.95	0.48
2:D:317:PHE:HE2	2:D:326:VAL:HG13	1.77	0.48
2:D:52:ASN:HD21	2:D:62:ARG:HE	1.59	0.48
1:E:212:ILE:CG2	1:E:275:ILE:HD11	2.43	0.48
1:E:76:ASP:O	1:E:80:THR:N	2.46	0.48
2:F:316:LEU:HA	2:F:352:SER:OG	2.13	0.48
2:F:317:PHE:HE2	2:F:326:VAL:HG13	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:52:ASN:HD21	2:F:62:ARG:HE	1.59	0.48
1:A:230:LEU:HD21	1:A:302:MET:CE	2.43	0.48
2:B:170:VAL:CG1	2:B:201:VAL:HG13	2.35	0.48
2:B:215:LEU:HD23	2:B:217:LEU:HD12	1.94	0.48
1:C:258:ASN:N	2:B:394:PHE:CE1	2.82	0.48
1:C:230:LEU:HD21	1:C:302:MET:CE	2.43	0.48
1:C:88:HIS:NE2	1:C:90:GLU:HB2	2.28	0.48
2:D:215:LEU:HD23	2:D:217:LEU:HD12	1.94	0.48
2:D:313:ALA:HB1	2:D:367:PHE:HE1	1.78	0.48
2:F:215:LEU:HD23	2:F:217:LEU:HD12	1.94	0.48
2:F:313:ALA:HB1	2:F:367:PHE:HE1	1.79	0.48
1:A:88:HIS:NE2	1:A:90:GLU:HB2	2.28	0.48
2:B:131:GLN:O	2:B:163:ILE:HG22	2.13	0.48
1:C:394:LYS:HA	1:C:394:LYS:HE2	1.95	0.48
2:D:131:GLN:O	2:D:163:ILE:HG22	2.13	0.48
2:D:170:VAL:CG1	2:D:201:VAL:HG13	2.34	0.48
2:D:288:GLU:O	2:D:291:GLN:N	2.46	0.48
1:E:230:LEU:HD21	1:E:302:MET:CE	2.43	0.48
1:E:264:ARG:HG2	1:E:431:ASP:OD2	2.13	0.48
1:E:88:HIS:NE2	1:E:90:GLU:HB2	2.28	0.48
2:F:131:GLN:O	2:F:163:ILE:HG22	2.13	0.48
2:F:288:GLU:O	2:F:291:GLN:N	2.46	0.48
1:A:205:ASP:OD1	1:A:206:ASN:N	2.43	0.48
1:A:264:ARG:HG2	1:A:431:ASP:OD2	2.13	0.48
1:A:344:VAL:O	1:A:347:CYS:N	2.42	0.48
1:A:394:LYS:HE2	1:A:394:LYS:HA	1.96	0.48
1:A:429:GLU:O	1:A:433:GLU:CB	2.61	0.48
2:B:244:GLY:HA3	2:B:247:ASN:OD1	2.14	0.48
2:B:288:GLU:O	2:B:291:GLN:N	2.46	0.48
1:C:344:VAL:O	1:C:347:CYS:N	2.42	0.48
1:C:264:ARG:HG2	1:C:431:ASP:OD2	2.13	0.48
1:C:6:SER:HB2	1:C:65:ALA:HB2	1.96	0.48
1:E:344:VAL:O	1:E:347:CYS:N	2.42	0.48
1:E:286:LEU:CD1	1:E:371:VAL:HG12	2.43	0.48
1:E:394:LYS:HA	1:E:394:LYS:HE2	1.95	0.48
1:E:429:GLU:O	1:E:433:GLU:CB	2.61	0.48
2:F:170:VAL:CG1	2:F:201:VAL:HG13	2.35	0.48
2:F:244:GLY:HA3	2:F:247:ASN:OD1	2.14	0.48
1:A:187:SER:O	1:A:190:SER:HB3	2.13	0.48
1:A:286:LEU:CD1	1:A:371:VAL:HG12	2.44	0.48
1:A:6:SER:HB2	1:A:65:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:155:VAL:HA	2:B:158:GLU:HB2	1.94	0.48
2:B:21:TRP:CZ2	2:B:63:ALA:HB2	2.48	0.48
2:B:377:MET:HG3	2:B:380:ARG:HH22	1.77	0.48
2:B:73:MET:CG	2:B:92:PHE:HB3	2.43	0.48
1:C:187:SER:O	1:C:190:SER:HB3	2.13	0.48
1:C:205:ASP:OD1	1:C:206:ASN:N	2.43	0.48
1:C:429:GLU:O	1:C:433:GLU:CB	2.61	0.48
2:D:155:VAL:HA	2:D:158:GLU:HB2	1.94	0.48
2:D:170:VAL:HG22	2:D:202:ILE:C	2.33	0.48
2:D:21:TRP:CZ2	2:D:63:ALA:HB2	2.48	0.48
2:D:73:MET:CG	2:D:92:PHE:HB3	2.43	0.48
1:E:205:ASP:OD1	1:E:206:ASN:N	2.43	0.48
2:F:155:VAL:HA	2:F:158:GLU:HB2	1.94	0.48
2:F:170:VAL:HG22	2:F:202:ILE:C	2.33	0.48
2:F:212:PHE:O	2:F:216:LYS:HA	2.13	0.48
2:F:76:VAL:O	2:F:79:GLY:N	2.44	0.48
2:F:73:MET:CG	2:F:92:PHE:HB3	2.43	0.48
2:B:170:VAL:HG22	2:B:202:ILE:C	2.34	0.48
2:B:212:PHE:O	2:B:216:LYS:HA	2.14	0.48
1:C:326:LYS:HB3	2:B:220:PRO:HG3	1.95	0.48
2:B:267:MET:O	2:B:368:VAL:HA	2.13	0.48
2:B:315:ALA:HB1	2:B:317:PHE:CZ	2.49	0.48
2:B:387:ALA:O	2:B:390:ARG:HB2	2.12	0.48
1:C:256:GLN:HG3	1:C:257:THR:H	1.79	0.48
1:C:286:LEU:CD1	1:C:371:VAL:HG12	2.44	0.48
1:C:70:LEU:HB3	1:C:98:ASP:HA	1.96	0.48
2:D:212:PHE:O	2:D:216:LYS:HA	2.14	0.48
2:D:244:GLY:HA3	2:D:247:ASN:OD1	2.14	0.48
2:D:315:ALA:HB1	2:D:317:PHE:CZ	2.49	0.48
2:D:76:VAL:O	2:D:79:GLY:N	2.44	0.48
2:D:32:PRO:O	2:D:84:LEU:HB2	2.14	0.48
1:E:187:SER:O	1:E:190:SER:HB3	2.13	0.48
1:E:6:SER:HB2	1:E:65:ALA:HB2	1.96	0.48
2:F:21:TRP:CZ2	2:F:63:ALA:HB2	2.48	0.48
2:F:267:MET:O	2:F:368:VAL:HA	2.13	0.48
2:F:315:ALA:HB1	2:F:317:PHE:CZ	2.49	0.48
2:F:377:MET:HG3	2:F:380:ARG:HH22	1.77	0.48
2:F:32:PRO:O	2:F:84:LEU:HB2	2.14	0.48
1:A:256:GLN:HG3	1:A:257:THR:H	1.79	0.48
1:A:70:LEU:HB3	1:A:98:ASP:HA	1.96	0.48
2:B:259:PRO:HB2	2:B:260:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:32:PRO:O	2:B:84:LEU:HB2	2.14	0.48
2:B:8:GLN:CD	2:B:14:ASN:HA	2.34	0.48
2:D:183:TYR:O	2:D:187:LEU:HG	2.14	0.48
2:D:267:MET:O	2:D:368:VAL:HA	2.13	0.48
2:D:377:MET:HG3	2:D:380:ARG:HH22	1.77	0.48
2:D:8:GLN:CD	2:D:14:ASN:HA	2.34	0.48
1:E:231:ILE:O	1:E:235:ILE:HG22	2.13	0.48
1:E:256:GLN:HG3	1:E:257:THR:H	1.79	0.48
1:E:227:LEU:CD2	3:E:501:GTP:N2	2.76	0.48
2:F:183:TYR:O	2:F:187:LEU:HG	2.14	0.48
2:F:387:ALA:O	2:F:390:ARG:HB2	2.12	0.48
2:F:8:GLN:CD	2:F:14:ASN:HA	2.34	0.48
1:A:320:ARG:HE	1:A:360:PRO:HA	1.79	0.48
1:A:227:LEU:CD2	3:A:501:GTP:N2	2.76	0.48
1:A:88:HIS:HB3	1:A:91:GLN:HG3	1.95	0.48
2:B:183:TYR:O	2:B:187:LEU:HG	2.14	0.48
1:C:227:LEU:CD2	3:C:501:GTP:N2	2.76	0.48
1:C:231:ILE:O	1:C:235:ILE:HG22	2.13	0.48
2:D:264:HIS:HA	2:D:266:PHE:CE2	2.49	0.48
2:D:387:ALA:O	2:D:390:ARG:HB2	2.12	0.48
1:E:88:HIS:HB3	1:E:91:GLN:HG3	1.95	0.48
1:E:70:LEU:HB3	1:E:98:ASP:HA	1.96	0.48
1:A:153:LEU:HA	1:A:156:ARG:NH1	2.28	0.48
1:A:231:ILE:O	1:A:235:ILE:HG22	2.13	0.48
2:B:262:ARG:C	2:B:263:LEU:HD12	2.33	0.48
2:B:32:PRO:HG3	2:B:81:PHE:HE1	1.79	0.48
2:B:358:PRO:HD2	2:B:364:ALA:HB2	1.95	0.48
1:C:145:THR:H	3:C:501:GTP:PG	2.37	0.48
1:C:320:ARG:HE	1:C:360:PRO:HA	1.79	0.48
1:C:88:HIS:HB3	1:C:91:GLN:HG3	1.95	0.48
2:D:259:PRO:HB2	2:D:260:PHE:CD2	2.48	0.48
2:D:262:ARG:C	2:D:263:LEU:HD12	2.33	0.48
2:D:270:PHE:N	2:D:298:ASN:HD21	2.11	0.48
2:D:30:ILE:HA	2:D:36:TYR:HA	1.96	0.48
2:D:358:PRO:HD2	2:D:364:ALA:HB2	1.95	0.48
1:E:145:THR:H	3:E:501:GTP:PG	2.37	0.48
2:F:259:PRO:HB2	2:F:260:PHE:CD2	2.48	0.48
2:F:262:ARG:C	2:F:263:LEU:HD12	2.33	0.48
2:F:270:PHE:N	2:F:298:ASN:HD21	2.11	0.48
2:F:30:ILE:HA	2:F:36:TYR:HA	1.96	0.48
2:F:32:PRO:HG3	2:F:81:PHE:HE1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:358:PRO:HD2	2:F:364:ALA:HB2	1.95	0.48
1:A:145:THR:H	3:A:501:GTP:PG	2.37	0.47
1:A:139:ASN:HB2	1:A:146:GLY:CA	2.44	0.47
1:A:242:LEU:HD21	1:A:251:ASP:OD1	2.13	0.47
1:A:301:MET:CG	1:A:307:PRO:HG3	2.44	0.47
2:B:264:HIS:HA	2:B:266:PHE:CE2	2.49	0.47
2:B:270:PHE:N	2:B:298:ASN:HD21	2.11	0.47
2:B:30:ILE:HA	2:B:36:TYR:HA	1.96	0.47
2:B:411:ALA:C	2:B:414:ASN:HB3	2.34	0.47
1:C:139:ASN:HB2	1:C:146:GLY:CA	2.44	0.47
1:C:242:LEU:HD21	1:C:251:ASP:OD1	2.13	0.47
1:C:301:MET:CG	1:C:307:PRO:HG3	2.44	0.47
2:D:411:ALA:C	2:D:414:ASN:HB3	2.34	0.47
1:E:139:ASN:HB2	1:E:146:GLY:CA	2.44	0.47
1:E:153:LEU:HA	1:E:156:ARG:NH1	2.28	0.47
1:E:242:LEU:HD21	1:E:251:ASP:OD1	2.13	0.47
1:E:301:MET:CG	1:E:307:PRO:HG3	2.44	0.47
2:F:264:HIS:HA	2:F:266:PHE:CE2	2.49	0.47
2:F:411:ALA:C	2:F:414:ASN:HB3	2.34	0.47
1:A:168:GLY:HA3	1:A:201:ALA:CB	2.44	0.47
1:A:274:PRO:HG2	1:A:371:VAL:HG11	1.96	0.47
1:A:317:MET:HB2	1:A:319:TYR:CZ	2.50	0.47
2:B:418:LEU:HD12	2:B:421:GLU:OE1	2.13	0.47
2:B:67:ASP:HB3	2:B:73:MET:HE2	1.97	0.47
1:C:153:LEU:HA	1:C:156:ARG:NH1	2.28	0.47
1:C:231:ILE:CA	1:C:234:VAL:HG12	2.43	0.47
1:C:317:MET:HB2	1:C:319:TYR:CZ	2.50	0.47
1:C:56:THR:HG21	1:C:60:LYS:CB	2.43	0.47
2:D:141:GLY:O	2:D:184:ASN:HB3	2.14	0.47
2:D:32:PRO:HG3	2:D:81:PHE:HE1	1.79	0.47
2:D:418:LEU:HD12	2:D:421:GLU:OE1	2.13	0.47
2:D:5:VAL:O	2:D:134:GLN:N	2.47	0.47
1:E:231:ILE:CA	1:E:234:VAL:HG12	2.43	0.47
1:E:317:MET:HB2	1:E:319:TYR:CZ	2.50	0.47
1:E:320:ARG:HE	1:E:360:PRO:HA	1.79	0.47
1:E:274:PRO:HG2	1:E:371:VAL:HG11	1.96	0.47
2:F:224:ASP:OD1	2:F:225:LEU:N	2.45	0.47
2:F:418:LEU:HD12	2:F:421:GLU:OE1	2.13	0.47
2:F:67:ASP:HB3	2:F:73:MET:HE2	1.97	0.47
1:A:219:ILE:HG21	1:A:222:PRO:HB3	1.95	0.47
1:A:231:ILE:CA	1:A:234:VAL:HG12	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:PHE:O	1:A:64:ARG:N	2.46	0.47
1:A:56:THR:HG21	1:A:60:LYS:CB	2.43	0.47
2:B:101:TRP:CZ2	2:B:149:THR:HG21	2.49	0.47
2:B:141:GLY:O	2:B:184:ASN:HB3	2.15	0.47
2:B:224:ASP:OD1	2:B:225:LEU:N	2.46	0.47
2:B:200:MET:HE2	2:B:368:VAL:HG11	1.96	0.47
2:B:5:VAL:O	2:B:134:GLN:N	2.47	0.47
2:B:76:VAL:O	2:B:79:GLY:N	2.44	0.47
1:C:274:PRO:HG2	1:C:371:VAL:HG11	1.96	0.47
1:C:52:PHE:O	1:C:64:ARG:N	2.46	0.47
2:D:224:ASP:OD1	2:D:225:LEU:N	2.46	0.47
2:D:396:HIS:CG	1:E:263:PRO:HD3	2.49	0.47
1:E:168:GLY:HA3	1:E:201:ALA:CB	2.44	0.47
1:E:52:PHE:O	1:E:64:ARG:N	2.46	0.47
1:E:56:THR:HG21	1:E:60:LYS:CB	2.43	0.47
2:F:141:GLY:O	2:F:184:ASN:HB3	2.15	0.47
2:F:200:MET:HE2	2:F:368:VAL:HG11	1.96	0.47
2:F:257:LEU:HD12	2:F:312:THR:CG2	2.42	0.47
1:A:106:GLY:HA2	1:A:110:ILE:HB	1.96	0.47
1:A:324:VAL:HG12	1:A:326:LYS:N	2.29	0.47
2:B:237:THR:HG22	2:B:240:LEU:HB3	1.97	0.47
2:B:257:LEU:HD12	2:B:312:THR:CG2	2.42	0.47
2:B:372:THR:O	2:B:375:GLN:HG3	2.14	0.47
1:C:168:GLY:HA3	1:C:201:ALA:CB	2.45	0.47
1:C:219:ILE:HG21	1:C:222:PRO:HB3	1.95	0.47
1:C:324:VAL:HG12	1:C:326:LYS:N	2.29	0.47
1:C:69:ASP:OD2	3:C:501:GTP:O2B	2.32	0.47
2:D:101:TRP:CZ2	2:D:149:THR:HG21	2.49	0.47
2:D:237:THR:HG22	2:D:240:LEU:HB3	1.97	0.47
2:D:253:LEU:O	2:D:257:LEU:HB2	2.14	0.47
2:D:257:LEU:HD12	2:D:312:THR:CG2	2.43	0.47
2:D:200:MET:HE2	2:D:368:VAL:HG11	1.96	0.47
2:D:67:ASP:HB3	2:D:73:MET:HE2	1.97	0.47
1:E:69:ASP:OD2	3:E:501:GTP:O2B	2.32	0.47
2:F:101:TRP:CZ2	2:F:149:THR:HG21	2.49	0.47
2:F:237:THR:HG22	2:F:240:LEU:HB3	1.97	0.47
2:F:5:VAL:O	2:F:134:GLN:N	2.48	0.47
1:A:69:ASP:OD2	3:A:501:GTP:O2B	2.32	0.47
2:B:253:LEU:O	2:B:257:LEU:HB2	2.14	0.47
2:B:62:ARG:HB2	2:B:62:ARG:CZ	2.41	0.47
1:C:106:GLY:HA2	1:C:110:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:372:THR:O	2:D:375:GLN:HG3	2.14	0.47
2:D:3:GLU:HA	2:D:49:VAL:HB	1.96	0.47
2:D:62:ARG:HB2	2:D:62:ARG:CZ	2.41	0.47
1:E:217:LEU:HB2	1:E:219:ILE:HG12	1.97	0.47
1:E:219:ILE:HG21	1:E:222:PRO:HB3	1.95	0.47
1:E:324:VAL:HG12	1:E:326:LYS:N	2.29	0.47
1:E:9:VAL:HB	1:E:139:ASN:CB	2.44	0.47
2:F:253:LEU:O	2:F:257:LEU:HB2	2.14	0.47
2:F:372:THR:O	2:F:375:GLN:HG3	2.14	0.47
2:F:62:ARG:HB2	2:F:62:ARG:CZ	2.41	0.47
1:A:217:LEU:HB2	1:A:219:ILE:HG12	1.97	0.47
1:A:317:MET:HB2	1:A:319:TYR:CE1	2.49	0.47
2:B:168:SER:CA	2:B:202:ILE:HD12	2.44	0.47
2:B:52:ASN:O	2:B:60:VAL:N	2.46	0.47
2:B:91:VAL:HG11	2:B:116:VAL:HG22	1.97	0.47
1:C:217:LEU:HB2	1:C:219:ILE:HG12	1.97	0.47
1:C:9:VAL:HB	1:C:139:ASN:CB	2.44	0.47
2:D:168:SER:CA	2:D:202:ILE:HD12	2.45	0.47
2:D:222:TYR:O	2:D:225:LEU:N	2.48	0.47
2:D:52:ASN:O	2:D:60:VAL:N	2.46	0.47
1:E:106:GLY:HA2	1:E:110:ILE:HB	1.96	0.47
1:E:317:MET:HB2	1:E:319:TYR:CE1	2.49	0.47
2:F:168:SER:CA	2:F:202:ILE:HD12	2.45	0.47
2:F:52:ASN:O	2:F:60:VAL:N	2.46	0.47
1:A:9:VAL:HB	1:A:139:ASN:CB	2.44	0.47
2:B:222:TYR:O	2:B:225:LEU:N	2.48	0.47
2:B:3:GLU:HA	2:B:49:VAL:HB	1.96	0.47
1:C:240:ALA:O	1:C:244:PHE:N	2.44	0.47
1:C:317:MET:HB2	1:C:319:TYR:CE1	2.49	0.47
2:D:91:VAL:HG11	2:D:116:VAL:HG22	1.97	0.47
1:E:240:ALA:O	1:E:244:PHE:N	2.44	0.47
2:F:222:TYR:O	2:F:225:LEU:N	2.48	0.47
2:F:3:GLU:HA	2:F:49:VAL:HB	1.96	0.47
1:A:139:ASN:O	1:A:170:THR:HG23	2.14	0.47
1:A:172:TYR:CG	1:A:173:PRO:HD2	2.49	0.47
1:A:240:ALA:O	1:A:244:PHE:N	2.44	0.47
1:C:172:TYR:CG	1:C:173:PRO:HD2	2.49	0.47
2:D:177:ASP:O	1:E:351:PHE:O	2.33	0.47
1:E:172:TYR:CG	1:E:173:PRO:HD2	2.49	0.47
2:F:173:PRO:HB3	2:F:380:ARG:HD3	1.97	0.47
2:F:415:MET:O	2:F:419:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:91:VAL:HG11	2:F:116:VAL:HG22	1.97	0.47
1:A:75:ILE:HD11	1:A:92:LEU:CD1	2.45	0.47
1:A:76:ASP:CA	1:A:79:ARG:HB2	2.40	0.47
1:A:71:GLU:HB3	1:A:98:ASP:OD2	2.14	0.47
2:B:309:ARG:HG2	2:B:342:VAL:HG13	1.97	0.47
2:B:343:GLU:OE1	2:B:343:GLU:N	2.47	0.47
2:B:173:PRO:HB3	2:B:380:ARG:HD3	1.97	0.47
2:B:415:MET:O	2:B:419:VAL:HG23	2.14	0.47
1:C:124:LYS:O	1:C:128:ASN:HB2	2.15	0.47
1:C:139:ASN:O	1:C:170:THR:HG23	2.14	0.47
1:C:326:LYS:HD2	2:B:208:TYR:CD2	2.49	0.47
1:C:71:GLU:HB3	1:C:98:ASP:OD2	2.14	0.47
1:C:76:ASP:CA	1:C:79:ARG:HB2	2.40	0.47
1:C:75:ILE:HD11	1:C:92:LEU:CD1	2.45	0.47
2:D:343:GLU:OE1	2:D:343:GLU:N	2.47	0.47
2:D:415:MET:O	2:D:419:VAL:HG23	2.14	0.47
1:E:124:LYS:O	1:E:128:ASN:HB2	2.15	0.47
1:E:139:ASN:O	1:E:170:THR:HG23	2.14	0.47
1:E:4:VAL:HG11	1:E:136:LEU:HG	1.97	0.47
1:E:75:ILE:HD11	1:E:92:LEU:CD1	2.45	0.47
1:E:76:ASP:CA	1:E:79:ARG:HB2	2.40	0.47
1:E:71:GLU:HB3	1:E:98:ASP:OD2	2.14	0.47
2:F:154:LYS:O	2:F:158:GLU:HG3	2.15	0.47
2:F:343:GLU:OE1	2:F:343:GLU:N	2.47	0.47
1:A:124:LYS:O	1:A:128:ASN:HB2	2.15	0.47
2:B:154:LYS:O	2:B:158:GLU:HG3	2.15	0.47
2:D:154:LYS:O	2:D:158:GLU:HG3	2.15	0.47
2:D:173:PRO:HB3	2:D:380:ARG:HD3	1.97	0.47
2:D:176:SER:HB2	1:E:349:THR:HB	1.97	0.47
2:D:309:ARG:HG2	2:D:342:VAL:HG13	1.97	0.47
1:A:9:VAL:O	1:A:13:GLY:HA3	2.15	0.47
1:A:32:PRO:HB3	1:A:83:TYR:CE1	2.49	0.47
1:A:334:THR:O	1:A:337:THR:HB	2.15	0.47
1:A:336:LYS:HE2	1:A:349:THR:CG2	2.44	0.47
2:B:222:TYR:O	2:B:225:LEU:HB2	2.15	0.47
1:C:9:VAL:O	1:C:13:GLY:HA3	2.15	0.47
1:C:39:ASP:OD1	1:C:40:LYS:N	2.48	0.47
1:C:32:PRO:HB3	1:C:83:TYR:CE1	2.49	0.47
1:E:336:LYS:HE2	1:E:349:THR:CG2	2.44	0.47
1:E:6:SER:HA	1:E:136:LEU:CB	2.44	0.47
1:E:9:VAL:O	1:E:13:GLY:HA3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:309:ARG:HG2	2:F:342:VAL:HG13	1.97	0.47
1:A:39:ASP:OD1	1:A:40:LYS:N	2.48	0.46
1:A:6:SER:HA	1:A:136:LEU:CB	2.45	0.46
2:B:155:VAL:O	2:B:159:TYR:N	2.44	0.46
2:B:200:MET:CB	2:B:268:ILE:HD11	2.44	0.46
1:C:336:LYS:HE2	1:C:349:THR:CG2	2.45	0.46
2:D:222:TYR:O	2:D:225:LEU:HB2	2.16	0.46
2:D:200:MET:CB	2:D:268:ILE:HD11	2.44	0.46
2:D:305:PRO:HB3	2:D:310:TYR:CE1	2.50	0.46
1:E:32:PRO:HB3	1:E:83:TYR:CE1	2.49	0.46
1:E:334:THR:O	1:E:337:THR:HB	2.15	0.46
1:E:39:ASP:OD1	1:E:40:LYS:N	2.48	0.46
2:F:222:TYR:O	2:F:225:LEU:HB2	2.16	0.46
2:F:200:MET:CB	2:F:268:ILE:HD11	2.44	0.46
1:C:6:SER:HA	1:C:136:LEU:O	2.15	0.46
1:C:334:THR:O	1:C:337:THR:HB	2.15	0.46
1:C:4:VAL:HG11	1:C:136:LEU:HG	1.97	0.46
1:C:6:SER:HA	1:C:136:LEU:CB	2.45	0.46
2:D:155:VAL:O	2:D:159:TYR:N	2.44	0.46
2:D:315:ALA:O	2:D:352:SER:OG	2.23	0.46
1:E:217:LEU:HD13	1:E:367:ASP:CG	2.35	0.46
2:F:155:VAL:O	2:F:159:TYR:N	2.44	0.46
2:F:315:ALA:O	2:F:352:SER:OG	2.23	0.46
1:A:4:VAL:HG11	1:A:136:LEU:HG	1.97	0.46
1:A:217:LEU:HD13	1:A:367:ASP:CG	2.35	0.46
1:A:277:SER:C	1:A:369:ALA:HB2	2.35	0.46
1:A:6:SER:HA	1:A:136:LEU:O	2.15	0.46
2:B:305:PRO:HB3	2:B:310:TYR:CE1	2.50	0.46
2:B:315:ALA:O	2:B:352:SER:OG	2.23	0.46
1:C:202:VAL:HG23	1:C:268:MET:O	2.15	0.46
1:C:275:ILE:HG13	1:C:275:ILE:O	2.16	0.46
1:C:277:SER:C	1:C:369:ALA:HB2	2.35	0.46
1:C:217:LEU:HD13	1:C:367:ASP:CG	2.35	0.46
1:C:3:GLU:C	1:C:132:LEU:HD22	2.36	0.46
2:D:73:MET:HE2	2:D:92:PHE:CB	2.41	0.46
1:E:275:ILE:O	1:E:275:ILE:HG13	2.16	0.46
1:E:277:SER:C	1:E:369:ALA:HB2	2.35	0.46
1:E:3:GLU:C	1:E:132:LEU:HD22	2.36	0.46
1:E:6:SER:HA	1:E:136:LEU:O	2.15	0.46
2:F:305:PRO:HB3	2:F:310:TYR:CE1	2.50	0.46
2:F:73:MET:HE2	2:F:92:PHE:CB	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:VAL:HG23	1:A:268:MET:O	2.15	0.46
1:A:275:ILE:HG13	1:A:275:ILE:O	2.16	0.46
1:A:3:GLU:C	1:A:132:LEU:HD22	2.36	0.46
1:A:51:THR:O	1:A:64:ARG:HD2	2.16	0.46
2:B:139:LEU:HG	2:B:168:SER:CB	2.45	0.46
1:C:376:CYS:SG	1:C:378:ILE:HG12	2.55	0.46
1:E:202:VAL:HG23	1:E:268:MET:O	2.15	0.46
2:D:396:HIS:CD2	1:E:263:PRO:CD	2.98	0.46
1:E:51:THR:O	1:E:64:ARG:HD2	2.16	0.46
1:E:76:ASP:O	1:E:79:ARG:HB2	2.14	0.46
1:A:76:ASP:O	1:A:79:ARG:HB2	2.14	0.46
1:A:71:GLU:HB3	1:A:98:ASP:CB	2.45	0.46
2:B:73:MET:HE2	2:B:92:PHE:CB	2.41	0.46
1:C:51:THR:O	1:C:64:ARG:HD2	2.16	0.46
1:C:76:ASP:O	1:C:79:ARG:HB2	2.14	0.46
1:C:71:GLU:HB3	1:C:98:ASP:CB	2.45	0.46
2:D:139:LEU:HG	2:D:168:SER:CB	2.45	0.46
1:E:376:CYS:SG	1:E:378:ILE:HG12	2.55	0.46
1:E:71:GLU:HB3	1:E:98:ASP:CB	2.45	0.46
2:F:139:LEU:HG	2:F:168:SER:CB	2.45	0.46
1:A:376:CYS:SG	1:A:378:ILE:HG12	2.55	0.46
1:A:178:SER:HB3	2:B:347:ASN:ND2	2.31	0.46
1:C:263:PRO:CD	2:B:396:HIS:CD2	2.98	0.46
2:B:99:ASN:OD1	2:B:142:GLY:N	2.45	0.46
1:C:178:SER:HB3	2:D:347:ASN:ND2	2.31	0.46
2:D:99:ASN:OD1	2:D:142:GLY:N	2.45	0.46
1:E:132:LEU:HD12	1:E:164:LYS:HD2	1.97	0.46
1:E:178:SER:HB3	2:F:347:ASN:ND2	2.31	0.46
1:A:1:MET:N	1:A:3:GLU:OE2	2.49	0.46
2:B:64:ILE:CD1	2:B:120:VAL:HG13	2.46	0.46
1:A:407:TRP:CD2	2:B:255:VAL:HG22	2.50	0.46
2:B:7:ILE:HA	2:B:64:ILE:O	2.16	0.46
1:C:132:LEU:HD12	1:C:164:LYS:HD2	1.97	0.46
1:C:291:ILE:HD11	1:C:375:VAL:HG12	1.97	0.46
1:C:62:VAL:HB	1:C:91:GLN:NE2	2.29	0.46
1:C:407:TRP:CD2	2:D:255:VAL:HG22	2.50	0.46
2:D:7:ILE:HA	2:D:64:ILE:O	2.16	0.46
1:E:1:MET:N	1:E:3:GLU:OE2	2.49	0.46
1:E:291:ILE:HD11	1:E:375:VAL:HG12	1.97	0.46
1:E:62:VAL:HB	1:E:91:GLN:NE2	2.29	0.46
2:F:64:ILE:CD1	2:F:120:VAL:HG13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:407:TRP:CD2	2:F:255:VAL:HG22	2.50	0.46
2:F:7:ILE:HA	2:F:64:ILE:O	2.16	0.46
1:A:132:LEU:HD12	1:A:164:LYS:HD2	1.97	0.46
1:A:62:VAL:HB	1:A:91:GLN:NE2	2.29	0.46
2:B:116:VAL:O	2:B:120:VAL:HG23	2.16	0.46
2:B:105:HIS:NE2	2:B:150:LEU:HD21	2.30	0.46
1:C:263:PRO:HD3	2:B:396:HIS:CG	2.50	0.46
1:C:1:MET:N	1:C:3:GLU:OE2	2.49	0.46
2:D:105:HIS:NE2	2:D:150:LEU:HD21	2.30	0.46
2:D:64:ILE:CD1	2:D:120:VAL:HG13	2.46	0.46
2:D:116:VAL:O	2:D:120:VAL:HG23	2.16	0.46
2:F:116:VAL:O	2:F:120:VAL:HG23	2.16	0.46
2:F:99:ASN:OD1	2:F:142:GLY:N	2.45	0.46
1:A:291:ILE:HD11	1:A:375:VAL:HG12	1.97	0.46
1:A:88:HIS:N	1:A:91:GLN:OE1	2.48	0.46
2:B:32:PRO:HG3	2:B:81:PHE:CE1	2.51	0.46
1:C:99:ALA:O	1:C:105:ARG:HD3	2.16	0.46
1:C:88:HIS:N	1:C:91:GLN:OE1	2.48	0.46
2:F:105:HIS:NE2	2:F:150:LEU:HD21	2.30	0.46
2:B:70:PRO:O	2:B:73:MET:HB2	2.16	0.46
1:E:99:ALA:O	1:E:105:ARG:HD3	2.17	0.46
1:E:88:HIS:N	1:E:91:GLN:OE1	2.48	0.46
2:F:32:PRO:HG3	2:F:81:PHE:CE1	2.51	0.46
1:A:99:ALA:O	1:A:105:ARG:HD3	2.17	0.45
2:B:11:GLN:N	5:B:501:GDP:PB	2.89	0.45
2:B:25:SER:O	2:B:29:GLY:N	2.49	0.45
2:D:309:ARG:NH1	2:D:343:GLU:OE2	2.49	0.45
2:D:32:PRO:HG3	2:D:81:PHE:CE1	2.51	0.45
2:D:70:PRO:O	2:D:73:MET:HB2	2.16	0.45
1:E:80:THR:O	1:E:84:ARG:NH1	2.49	0.45
2:F:11:GLN:N	5:F:501:GDP:PB	2.89	0.45
2:F:309:ARG:NH1	2:F:343:GLU:OE2	2.49	0.45
2:F:70:PRO:O	2:F:73:MET:HB2	2.16	0.45
1:A:15:GLN:HB3	1:A:228:ASN:ND2	2.32	0.45
1:A:271:SER:OG	1:A:302:MET:N	2.41	0.45
1:A:319:TYR:HE2	1:A:328:VAL:CG1	2.30	0.45
1:A:80:THR:O	1:A:84:ARG:NH1	2.49	0.45
1:A:83:TYR:CD1	1:A:86:LEU:HD22	2.52	0.45
2:B:1:MET:O	2:B:2:ARG:HB2	2.16	0.45
2:B:311:LEU:HA	2:B:342:VAL:HG11	1.98	0.45
2:B:309:ARG:NH1	2:B:343:GLU:OE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:15:GLN:HB3	1:C:228:ASN:ND2	2.32	0.45
1:C:271:SER:OG	1:C:302:MET:N	2.41	0.45
1:C:80:THR:O	1:C:84:ARG:NH1	2.49	0.45
2:D:11:GLN:N	5:D:501:GDP:PB	2.89	0.45
2:D:181:GLU:HG2	2:D:182:PRO:HD3	1.97	0.45
2:D:1:MET:O	2:D:2:ARG:HB2	2.16	0.45
2:D:311:LEU:HA	2:D:342:VAL:HG11	1.98	0.45
2:D:394:PHE:CE1	1:E:258:ASN:N	2.85	0.45
1:E:15:GLN:HB3	1:E:228:ASN:ND2	2.32	0.45
1:E:271:SER:OG	1:E:302:MET:N	2.41	0.45
1:E:274:PRO:HD3	1:E:291:ILE:HD12	1.96	0.45
1:E:297:GLU:HB3	1:E:300:ASN:CB	2.47	0.45
1:E:83:TYR:CD1	1:E:86:LEU:HD22	2.52	0.45
1:A:274:PRO:HD3	1:A:291:ILE:HD12	1.96	0.45
1:A:297:GLU:HB3	1:A:300:ASN:CB	2.47	0.45
2:B:181:GLU:HG2	2:B:182:PRO:HD3	1.98	0.45
2:B:232:ALA:O	2:B:235:GLY:N	2.49	0.45
2:B:295:ASP:O	2:B:299:MET:HG2	2.16	0.45
1:C:274:PRO:HD3	1:C:291:ILE:HD12	1.96	0.45
1:C:319:TYR:HE2	1:C:328:VAL:CG1	2.30	0.45
1:C:83:TYR:CD1	1:C:86:LEU:HD22	2.52	0.45
2:D:155:VAL:HG13	2:D:159:TYR:HD2	1.80	0.45
2:D:232:ALA:O	2:D:235:GLY:N	2.49	0.45
2:D:25:SER:O	2:D:29:GLY:N	2.49	0.45
2:D:295:ASP:O	2:D:299:MET:HG2	2.16	0.45
1:E:19:ALA:CB	1:E:228:ASN:HB3	2.46	0.45
1:E:320:ARG:HB3	1:E:358:GLN:O	2.17	0.45
1:E:319:TYR:HE2	1:E:328:VAL:CG1	2.30	0.45
2:F:155:VAL:HG13	2:F:159:TYR:HD2	1.80	0.45
2:F:181:GLU:HG2	2:F:182:PRO:HD3	1.98	0.45
2:F:25:SER:O	2:F:29:GLY:N	2.49	0.45
2:F:295:ASP:O	2:F:299:MET:HG2	2.16	0.45
2:F:1:MET:O	2:F:2:ARG:HB2	2.16	0.45
2:F:311:LEU:HA	2:F:342:VAL:HG11	1.98	0.45
1:A:151:SER:O	1:A:155:GLU:HB2	2.16	0.45
1:A:19:ALA:CB	1:A:228:ASN:HB3	2.46	0.45
2:B:113:ILE:CD1	2:B:147:MET:HE3	2.43	0.45
2:B:155:VAL:HG13	2:B:159:TYR:HD2	1.80	0.45
1:C:19:ALA:CB	1:C:228:ASN:HB3	2.46	0.45
1:C:297:GLU:HB3	1:C:300:ASN:CB	2.47	0.45
1:C:320:ARG:HB3	1:C:358:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:113:ILE:CD1	2:D:147:MET:HE3	2.43	0.45
1:E:151:SER:O	1:E:155:GLU:HB2	2.16	0.45
2:F:232:ALA:O	2:F:235:GLY:N	2.49	0.45
2:F:341:PHE:HB3	2:F:348:ASN:ND2	2.19	0.45
1:A:320:ARG:HB3	1:A:358:GLN:O	2.17	0.45
1:C:351:PHE:O	2:B:177:ASP:O	2.35	0.45
1:C:3:GLU:CB	1:C:132:LEU:HA	2.43	0.45
1:C:151:SER:O	1:C:155:GLU:HB2	2.16	0.45
1:E:260:VAL:HG23	1:E:260:VAL:O	2.17	0.45
2:F:70:PRO:HB3	2:F:92:PHE:CE2	2.50	0.45
1:A:3:GLU:CB	1:A:132:LEU:HA	2.43	0.45
1:A:260:VAL:HG23	1:A:260:VAL:O	2.17	0.45
1:A:303:ALA:O	1:A:305:CYS:N	2.49	0.45
2:B:332:ASN:CG	2:B:336:LYS:HE3	2.37	0.45
2:B:357:PRO:HG3	2:B:362:LYS:O	2.16	0.45
1:C:260:VAL:O	1:C:260:VAL:HG23	2.17	0.45
2:D:332:ASN:CG	2:D:336:LYS:HE3	2.37	0.45
2:F:311:LEU:HD23	2:F:342:VAL:CG1	2.28	0.45
2:F:332:ASN:CG	2:F:336:LYS:HE3	2.37	0.45
1:C:349:THR:HB	2:B:176:SER:HB2	1.98	0.45
2:B:334:GLN:OE1	2:B:349:ILE:HG12	2.17	0.45
2:B:341:PHE:HB3	2:B:348:ASN:ND2	2.20	0.45
2:B:70:PRO:HB3	2:B:92:PHE:CE2	2.50	0.45
1:C:303:ALA:O	1:C:305:CYS:N	2.49	0.45
2:D:220:PRO:CG	1:E:326:LYS:HB3	2.47	0.45
2:D:290:THR:HA	2:D:293:MET:SD	2.56	0.45
2:D:334:GLN:OE1	2:D:349:ILE:HG12	2.17	0.45
2:D:357:PRO:HG3	2:D:362:LYS:O	2.16	0.45
2:D:70:PRO:HB3	2:D:92:PHE:CE2	2.50	0.45
1:E:3:GLU:CB	1:E:132:LEU:HA	2.44	0.45
1:E:303:ALA:O	1:E:305:CYS:N	2.49	0.45
2:B:262:ARG:HB3	2:B:418:LEU:HD11	1.97	0.45
2:B:290:THR:HA	2:B:293:MET:SD	2.56	0.45
2:B:311:LEU:HD23	2:B:342:VAL:CG1	2.28	0.45
2:D:311:LEU:HD23	2:D:342:VAL:CG1	2.28	0.45
2:D:262:ARG:HB3	2:D:418:LEU:HD11	1.97	0.45
2:D:7:ILE:HG13	2:D:64:ILE:HD12	1.99	0.45
2:F:113:ILE:CD1	2:F:147:MET:HE3	2.43	0.45
2:F:334:GLN:OE1	2:F:349:ILE:HG12	2.17	0.45
2:F:357:PRO:HG3	2:F:362:LYS:O	2.16	0.45
1:A:93:ILE:CG2	1:A:117:LEU:HD23	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:ARG:HB2	1:A:374:ALA:CB	2.47	0.45
2:B:148:GLY:HA2	2:B:151:LEU:HD12	1.98	0.45
2:B:7:ILE:HG13	2:B:64:ILE:HD12	1.99	0.45
2:D:148:GLY:HA2	2:D:151:LEU:HD12	1.98	0.45
1:E:93:ILE:CG2	1:E:117:LEU:HD23	2.47	0.45
2:F:262:ARG:HB3	2:F:418:LEU:HD11	1.97	0.45
2:F:290:THR:HA	2:F:293:MET:SD	2.56	0.45
1:A:115:VAL:HG21	1:A:152:LEU:HD23	1.99	0.45
2:B:70:PRO:HD3	2:B:93:GLY:O	2.17	0.45
1:C:93:ILE:CG2	1:C:117:LEU:HD23	2.47	0.45
1:C:115:VAL:HG21	1:C:152:LEU:HD23	1.99	0.45
1:C:320:ARG:HB2	1:C:374:ALA:CB	2.47	0.45
2:D:70:PRO:HD3	2:D:93:GLY:O	2.17	0.45
1:E:320:ARG:HB2	1:E:374:ALA:CB	2.47	0.45
2:F:148:GLY:HA2	2:F:151:LEU:HD12	1.98	0.45
1:A:401:LYS:HG2	2:B:344:TRP:CZ2	2.52	0.44
2:B:172:SER:OG	2:B:175:VAL:HG12	2.17	0.44
2:B:188:SER:O	2:B:191:GLN:N	2.50	0.44
1:C:358:GLN:HG3	1:C:359:PRO:O	2.15	0.44
2:D:188:SER:O	2:D:191:GLN:N	2.50	0.44
1:C:401:LYS:HG2	2:D:344:TRP:CZ2	2.52	0.44
1:E:115:VAL:HG21	1:E:152:LEU:HD23	1.99	0.44
2:D:179:VAL:CA	1:E:350:GLY:HA2	2.41	0.44
1:E:358:GLN:HG3	1:E:359:PRO:O	2.15	0.44
1:E:320:ARG:NH2	1:E:359:PRO:O	2.45	0.44
2:F:172:SER:OG	2:F:175:VAL:HG12	2.17	0.44
2:F:188:SER:O	2:F:191:GLN:N	2.50	0.44
2:F:70:PRO:HD3	2:F:93:GLY:O	2.17	0.44
2:F:7:ILE:HG13	2:F:64:ILE:HD12	1.99	0.44
1:A:231:ILE:HA	1:A:234:VAL:CG1	2.42	0.44
1:A:298:PRO:HB3	1:A:307:PRO:HD2	1.99	0.44
1:A:358:GLN:HG3	1:A:359:PRO:O	2.16	0.44
1:C:231:ILE:HA	1:C:234:VAL:CG1	2.42	0.44
1:C:320:ARG:NH2	1:C:359:PRO:O	2.45	0.44
2:D:172:SER:OG	2:D:175:VAL:HG12	2.18	0.44
1:E:231:ILE:HA	1:E:234:VAL:CG1	2.42	0.44
1:E:401:LYS:HG2	2:F:344:TRP:CZ2	2.52	0.44
1:A:319:TYR:HE2	1:A:328:VAL:HG11	1.82	0.44
1:A:320:ARG:NH2	1:A:359:PRO:O	2.45	0.44
1:C:298:PRO:HB3	1:C:307:PRO:HD2	1.99	0.44
1:E:298:PRO:HB3	1:E:307:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:LEU:HD23	1:A:167:LEU:CB	2.47	0.44
1:C:136:LEU:HD23	1:C:167:LEU:CB	2.47	0.44
1:C:319:TYR:HE2	1:C:328:VAL:HG11	1.82	0.44
1:E:136:LEU:HD23	1:E:167:LEU:CB	2.47	0.44
1:E:180:ALA:N	1:E:183:GLU:OE2	2.45	0.44
1:E:265:ILE:O	1:E:265:ILE:HG13	2.17	0.44
1:E:319:TYR:HE2	1:E:328:VAL:HG11	1.82	0.44
1:E:69:ASP:OD1	1:E:145:THR:HB	2.18	0.44
2:F:332:ASN:ND2	2:F:336:LYS:HE3	2.32	0.44
2:F:65:LEU:CD2	2:F:90:PHE:HA	2.32	0.44
1:A:180:ALA:N	1:A:183:GLU:OE2	2.45	0.44
1:A:219:ILE:HD11	1:A:367:ASP:OD2	2.18	0.44
1:A:233:GLN:O	1:A:236:SER:HB2	2.17	0.44
1:A:265:ILE:O	1:A:265:ILE:HG13	2.17	0.44
1:A:385:ALA:HA	1:A:388:PHE:HD2	1.79	0.44
1:A:69:ASP:OD1	1:A:145:THR:HB	2.18	0.44
2:B:258:ILE:HD11	2:B:263:LEU:H	1.82	0.44
2:B:332:ASN:ND2	2:B:336:LYS:HE3	2.32	0.44
2:B:65:LEU:CD2	2:B:90:PHE:HA	2.32	0.44
1:C:180:ALA:N	1:C:183:GLU:OE2	2.45	0.44
1:C:265:ILE:HG13	1:C:265:ILE:O	2.17	0.44
1:C:69:ASP:OD1	1:C:145:THR:HB	2.18	0.44
2:D:317:PHE:CE1	2:D:365:VAL:HG22	2.52	0.44
2:D:332:ASN:ND2	2:D:336:LYS:HE3	2.32	0.44
2:D:65:LEU:CD2	2:D:90:PHE:HA	2.32	0.44
1:E:276:ILE:HG13	1:E:369:ALA:HB3	1.99	0.44
2:F:317:PHE:CE1	2:F:365:VAL:HG22	2.52	0.44
1:A:276:ILE:HG13	1:A:369:ALA:HB3	2.00	0.44
2:B:42:LEU:HA	2:B:45:GLU:HG2	2.00	0.44
1:C:233:GLN:O	1:C:236:SER:HB2	2.17	0.44
1:C:167:LEU:HD11	1:C:252:ILE:HD13	1.99	0.44
1:C:258:ASN:CA	2:B:394:PHE:HE1	2.18	0.44
1:C:219:ILE:HD11	1:C:367:ASP:OD2	2.18	0.44
1:C:276:ILE:HG13	1:C:369:ALA:HB3	2.00	0.44
1:C:385:ALA:HA	1:C:388:PHE:HD2	1.79	0.44
2:D:176:SER:HB2	1:E:349:THR:CB	2.48	0.44
2:D:258:ILE:HD11	2:D:263:LEU:H	1.82	0.44
2:D:315:ALA:HA	2:D:366:THR:O	2.17	0.44
2:D:42:LEU:HA	2:D:45:GLU:HG2	2.00	0.44
1:E:214:ARG:HA	1:E:219:ILE:H	1.83	0.44
1:E:219:ILE:HD11	1:E:367:ASP:OD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:385:ALA:HA	1:E:388:PHE:HD2	1.79	0.44
2:F:258:ILE:HD11	2:F:263:LEU:H	1.82	0.44
2:F:315:ALA:HA	2:F:366:THR:O	2.17	0.44
1:A:167:LEU:HD11	1:A:252:ILE:HD13	1.99	0.44
1:A:214:ARG:HA	1:A:219:ILE:H	1.83	0.44
1:A:79:ARG:HE	1:A:92:LEU:HD12	1.82	0.44
1:A:75:ILE:HD11	1:A:92:LEU:HD12	1.99	0.44
2:B:317:PHE:CE1	2:B:365:VAL:HG22	2.52	0.44
2:B:315:ALA:HA	2:B:366:THR:O	2.17	0.44
1:C:214:ARG:HA	1:C:219:ILE:H	1.83	0.44
1:C:407:TRP:CE2	2:D:255:VAL:HG22	2.53	0.44
1:C:75:ILE:HD11	1:C:92:LEU:HD12	1.98	0.44
2:D:272:PRO:C	2:D:273:LEU:HD22	2.38	0.44
1:E:233:GLN:O	1:E:236:SER:HB2	2.17	0.44
1:E:79:ARG:HE	1:E:92:LEU:HD12	1.82	0.44
1:E:75:ILE:HD11	1:E:92:LEU:HD12	1.98	0.44
2:F:42:LEU:HA	2:F:45:GLU:HG2	2.00	0.44
1:A:250:VAL:HA	1:A:254:GLU:OE1	2.18	0.44
1:A:23:LEU:O	1:A:26:LEU:HB3	2.18	0.44
1:A:386:GLU:O	1:A:389:SER:N	2.51	0.44
1:A:407:TRP:CE2	2:B:255:VAL:HG22	2.53	0.44
1:A:420:GLU:O	1:A:423:GLU:HB3	2.18	0.44
1:A:83:TYR:O	1:A:86:LEU:HB3	2.18	0.44
2:B:272:PRO:C	2:B:273:LEU:HD22	2.38	0.44
2:B:173:PRO:HA	2:B:380:ARG:HD2	2.00	0.44
1:C:11:GLN:HB3	3:C:501:GTP:C8	2.53	0.44
1:C:23:LEU:O	1:C:26:LEU:HB3	2.18	0.44
1:C:250:VAL:HA	1:C:254:GLU:OE1	2.18	0.44
1:C:386:GLU:O	1:C:389:SER:N	2.51	0.44
1:C:420:GLU:O	1:C:423:GLU:HB3	2.18	0.44
1:E:11:GLN:HB3	3:E:501:GTP:C8	2.53	0.44
1:E:214:ARG:HA	1:E:219:ILE:N	2.32	0.44
1:E:167:LEU:HD11	1:E:252:ILE:HD13	1.99	0.44
1:E:23:LEU:O	1:E:26:LEU:HB3	2.18	0.44
1:E:298:PRO:CA	1:E:301:MET:HG2	2.39	0.44
1:E:407:TRP:CE2	2:F:255:VAL:HG22	2.53	0.44
1:E:420:GLU:O	1:E:423:GLU:HB3	2.18	0.44
2:F:272:PRO:C	2:F:273:LEU:HD22	2.38	0.44
1:A:214:ARG:HA	1:A:219:ILE:N	2.32	0.44
1:A:11:GLN:HB3	3:A:501:GTP:C8	2.53	0.44
1:A:88:HIS:HB3	1:A:91:GLN:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:13:GLY:HA2	2:B:16:ILE:CG1	2.47	0.44
2:B:182:PRO:HB3	2:B:385:PHE:HB2	2.00	0.44
2:B:43:GLN:O	2:B:47:ILE:HB	2.18	0.44
1:C:298:PRO:CA	1:C:301:MET:HG2	2.39	0.44
1:C:79:ARG:HE	1:C:92:LEU:HD12	1.82	0.44
1:C:83:TYR:O	1:C:86:LEU:HB3	2.18	0.44
1:C:88:HIS:HB3	1:C:91:GLN:CG	2.48	0.44
2:D:167:PHE:CE1	2:D:200:MET:HB2	2.53	0.44
2:D:43:GLN:O	2:D:47:ILE:HB	2.18	0.44
1:E:194:LEU:HD21	1:E:267:PHE:HZ	1.83	0.44
1:E:250:VAL:HA	1:E:254:GLU:OE1	2.18	0.44
1:E:321:GLY:HA2	1:E:359:PRO:HD3	2.00	0.44
1:E:386:GLU:O	1:E:389:SER:N	2.51	0.44
1:E:88:HIS:HB3	1:E:91:GLN:CG	2.48	0.44
2:F:13:GLY:HA2	2:F:16:ILE:CG1	2.47	0.44
2:F:43:GLN:O	2:F:47:ILE:HB	2.18	0.44
1:A:194:LEU:HD21	1:A:267:PHE:HZ	1.83	0.43
1:A:204:LEU:HD13	1:A:231:ILE:CD1	2.48	0.43
1:A:298:PRO:CA	1:A:301:MET:HG2	2.39	0.43
1:A:321:GLY:HA2	1:A:359:PRO:HD3	2.00	0.43
1:A:391:LEU:O	1:A:395:PHE:HB3	2.17	0.43
2:B:150:LEU:O	2:B:154:LYS:HG2	2.16	0.43
2:B:161:ASP:OD1	2:B:162:ARG:HG2	2.18	0.43
1:C:103:PHE:CZ	1:C:190:SER:HA	2.53	0.43
1:C:204:LEU:HD13	1:C:231:ILE:CD1	2.48	0.43
1:C:214:ARG:HA	1:C:219:ILE:N	2.32	0.43
1:C:219:ILE:HG22	1:C:222:PRO:HD3	1.98	0.43
1:C:321:GLY:HA2	1:C:359:PRO:HD3	2.00	0.43
1:C:391:LEU:O	1:C:395:PHE:HB3	2.17	0.43
2:D:150:LEU:O	2:D:154:LYS:HG2	2.16	0.43
2:D:161:ASP:OD1	2:D:162:ARG:HG2	2.18	0.43
2:D:13:GLY:HA2	2:D:16:ILE:CG1	2.47	0.43
2:D:182:PRO:HB3	2:D:385:PHE:HB2	2.00	0.43
1:E:204:LEU:HD13	1:E:231:ILE:CD1	2.48	0.43
1:E:391:LEU:O	1:E:395:PHE:HB3	2.17	0.43
1:E:83:TYR:O	1:E:86:LEU:HB3	2.18	0.43
1:E:99:ALA:CA	1:E:105:ARG:HD3	2.48	0.43
2:F:150:LEU:O	2:F:154:LYS:HG2	2.16	0.43
2:F:167:PHE:CE1	2:F:200:MET:HB2	2.53	0.43
2:F:173:PRO:HA	2:F:380:ARG:HD2	2.00	0.43
2:F:182:PRO:HB3	2:F:385:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:PHE:CZ	1:A:190:SER:HA	2.53	0.43
1:A:99:ALA:CA	1:A:105:ARG:HD3	2.48	0.43
2:B:152:ILE:O	2:B:156:ARG:HB3	2.17	0.43
2:B:167:PHE:CE1	2:B:200:MET:HB2	2.53	0.43
2:B:65:LEU:HD13	2:B:89:ASN:O	2.18	0.43
1:C:99:ALA:CA	1:C:105:ARG:HD3	2.48	0.43
1:C:194:LEU:HD21	1:C:267:PHE:HZ	1.83	0.43
2:D:102:ALA:HB3	2:D:401:GLU:HG3	1.99	0.43
2:D:152:ILE:O	2:D:156:ARG:HB3	2.17	0.43
2:D:173:PRO:HA	2:D:380:ARG:HD2	2.00	0.43
1:E:103:PHE:CZ	1:E:190:SER:HA	2.53	0.43
2:F:116:VAL:HG21	2:F:147:MET:HE1	1.99	0.43
2:F:152:ILE:O	2:F:156:ARG:HB3	2.17	0.43
2:F:161:ASP:OD1	2:F:162:ARG:HG2	2.18	0.43
1:A:153:LEU:HA	1:A:156:ARG:CZ	2.48	0.43
1:A:219:ILE:HG22	1:A:222:PRO:HD3	1.99	0.43
1:A:320:ARG:HE	1:A:360:PRO:CA	2.31	0.43
1:A:320:ARG:NE	1:A:360:PRO:HA	2.33	0.43
1:C:263:PRO:HD3	2:B:396:HIS:CD2	2.53	0.43
1:C:99:ALA:C	1:C:105:ARG:HD3	2.38	0.43
2:D:65:LEU:HD13	2:D:89:ASN:O	2.19	0.43
1:E:153:LEU:HA	1:E:156:ARG:CZ	2.48	0.43
1:E:219:ILE:HG22	1:E:222:PRO:HD3	1.99	0.43
2:F:65:LEU:HD13	2:F:89:ASN:O	2.19	0.43
1:A:152:LEU:O	1:A:155:GLU:HB3	2.18	0.43
1:A:301:MET:CE	1:A:307:PRO:HG3	2.48	0.43
1:A:311:LYS:N	1:A:381:SER:OG	2.51	0.43
1:A:99:ALA:C	1:A:105:ARG:HD3	2.38	0.43
2:B:102:ALA:HB3	2:B:401:GLU:HG3	1.99	0.43
2:B:403:MET:HG2	2:B:404:ASP:N	2.33	0.43
1:C:153:LEU:HA	1:C:156:ARG:CZ	2.48	0.43
1:C:320:ARG:HE	1:C:360:PRO:CA	2.31	0.43
1:C:320:ARG:NE	1:C:360:PRO:HA	2.33	0.43
1:C:311:LYS:N	1:C:381:SER:OG	2.51	0.43
1:E:194:LEU:O	1:E:198:THR:HG23	2.18	0.43
1:E:301:MET:CE	1:E:307:PRO:HG3	2.48	0.43
1:E:320:ARG:HE	1:E:360:PRO:CA	2.31	0.43
1:E:99:ALA:C	1:E:105:ARG:HD3	2.38	0.43
2:F:237:THR:HG23	2:F:240:LEU:CD2	2.38	0.43
2:F:102:ALA:HB3	2:F:401:GLU:HG3	1.99	0.43
2:F:403:MET:HG2	2:F:404:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LEU:O	1:A:198:THR:HG23	2.18	0.43
1:A:237:SER:OG	1:A:320:ARG:HD2	2.18	0.43
1:C:326:LYS:HB3	2:B:220:PRO:CG	2.49	0.43
2:B:47:ILE:HG12	2:B:51:TYR:HB2	2.01	0.43
1:C:194:LEU:O	1:C:198:THR:HG23	2.18	0.43
1:C:301:MET:CE	1:C:307:PRO:HG3	2.48	0.43
1:C:237:SER:OG	1:C:320:ARG:HD2	2.18	0.43
2:D:237:THR:HG23	2:D:240:LEU:CD2	2.38	0.43
2:D:403:MET:HG2	2:D:404:ASP:N	2.33	0.43
1:E:152:LEU:O	1:E:155:GLU:HB3	2.18	0.43
1:E:320:ARG:NE	1:E:360:PRO:HA	2.33	0.43
1:E:311:LYS:N	1:E:381:SER:OG	2.51	0.43
2:F:250:LEU:HA	2:F:253:LEU:HB2	2.01	0.43
2:B:150:LEU:HA	2:B:150:LEU:HD23	1.58	0.43
2:B:237:THR:HG23	2:B:240:LEU:CD2	2.38	0.43
2:B:210:ILE:CD1	2:B:300:MET:HG2	2.39	0.43
2:B:385:PHE:HZ	2:B:408:PHE:HB3	1.83	0.43
2:B:41:ASP:O	2:B:45:GLU:N	2.51	0.43
1:C:152:LEU:O	1:C:155:GLU:HB3	2.18	0.43
2:D:150:LEU:HD23	2:D:150:LEU:HA	1.58	0.43
2:D:253:LEU:O	2:D:257:LEU:N	2.51	0.43
2:D:210:ILE:CD1	2:D:300:MET:HG2	2.39	0.43
2:D:385:PHE:HZ	2:D:408:PHE:HB3	1.83	0.43
2:D:47:ILE:HG12	2:D:51:TYR:HB2	2.01	0.43
1:E:237:SER:OG	1:E:320:ARG:HD2	2.18	0.43
2:F:150:LEU:HA	2:F:150:LEU:HD23	1.58	0.43
2:F:253:LEU:O	2:F:257:LEU:N	2.51	0.43
2:F:262:ARG:HD2	2:F:421:GLU:OE2	2.17	0.43
2:F:385:PHE:HZ	2:F:408:PHE:HB3	1.83	0.43
2:F:47:ILE:HG12	2:F:51:TYR:HB2	2.01	0.43
1:A:14:ILE:HD11	1:A:74:VAL:CG2	2.48	0.43
2:B:250:LEU:HA	2:B:253:LEU:HB2	2.01	0.43
2:B:253:LEU:O	2:B:257:LEU:N	2.51	0.43
1:C:14:ILE:HD11	1:C:74:VAL:CG2	2.48	0.43
2:D:99:ASN:CG	2:D:143:THR:HG23	2.39	0.43
2:D:138:SER:HB3	2:D:169:VAL:HB	1.99	0.43
2:D:250:LEU:HA	2:D:253:LEU:HB2	2.01	0.43
2:D:41:ASP:O	2:D:45:GLU:N	2.51	0.43
2:D:262:ARG:HD2	2:D:421:GLU:OE2	2.18	0.43
1:E:286:LEU:HD13	1:E:371:VAL:CG1	2.49	0.43
1:E:4:VAL:HB	1:E:52:PHE:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:138:SER:HB3	2:F:169:VAL:HB	1.99	0.43
2:F:210:ILE:CD1	2:F:300:MET:HG2	2.39	0.43
2:F:41:ASP:O	2:F:45:GLU:N	2.51	0.43
1:A:281:ALA:HB2	1:A:369:ALA:CB	2.48	0.43
1:A:286:LEU:HD13	1:A:371:VAL:CG1	2.49	0.43
1:A:298:PRO:CG	1:A:308:ARG:HG3	2.49	0.43
1:A:311:LYS:HG2	1:A:342:GLN:CB	2.44	0.43
1:A:4:VAL:HB	1:A:52:PHE:HE1	1.83	0.43
2:B:138:SER:HB3	2:B:169:VAL:HB	1.99	0.43
2:B:262:ARG:HD2	2:B:421:GLU:OE2	2.18	0.43
2:B:99:ASN:CG	2:B:143:THR:HG23	2.39	0.43
1:C:281:ALA:HB2	1:C:369:ALA:CB	2.48	0.43
1:C:298:PRO:CG	1:C:308:ARG:HG3	2.49	0.43
1:C:30:ILE:HD12	1:C:36:MET:CB	2.47	0.43
1:C:56:THR:OG1	1:C:60:LYS:HB3	2.18	0.43
1:E:281:ALA:HB2	1:E:369:ALA:CB	2.48	0.43
1:E:298:PRO:CG	1:E:308:ARG:HG3	2.49	0.43
1:E:30:ILE:HD12	1:E:36:MET:CB	2.47	0.43
1:E:56:THR:OG1	1:E:60:LYS:HB3	2.18	0.43
1:E:14:ILE:HD11	1:E:74:VAL:CG2	2.48	0.43
1:E:83:TYR:HB3	1:E:86:LEU:CB	2.46	0.43
2:F:65:LEU:HD13	2:F:89:ASN:CB	2.49	0.43
2:F:99:ASN:CG	2:F:143:THR:HG23	2.39	0.43
1:A:30:ILE:HD12	1:A:36:MET:CB	2.47	0.43
1:A:56:THR:OG1	1:A:60:LYS:HB3	2.18	0.43
1:A:83:TYR:HB3	1:A:86:LEU:CB	2.46	0.43
2:B:232:ALA:O	2:B:236:VAL:HG13	2.19	0.43
2:B:182:PRO:CB	2:B:385:PHE:HB2	2.49	0.43
2:B:65:LEU:HD13	2:B:89:ASN:CB	2.49	0.43
1:C:286:LEU:HD13	1:C:371:VAL:CG1	2.49	0.43
1:C:386:GLU:O	1:C:389:SER:HB2	2.19	0.43
1:C:4:VAL:HB	1:C:52:PHE:HE1	1.83	0.43
2:D:232:ALA:O	2:D:236:VAL:HG13	2.19	0.43
2:D:65:LEU:HD13	2:D:89:ASN:CB	2.49	0.43
1:E:311:LYS:HG2	1:E:342:GLN:CB	2.44	0.43
1:E:310:GLY:CA	1:E:383:ALA:HB2	2.45	0.43
1:E:386:GLU:O	1:E:389:SER:HB2	2.19	0.43
2:F:232:ALA:O	2:F:236:VAL:HG13	2.19	0.43
1:A:134:GLY:HA3	1:A:165:SER:HB2	2.01	0.43
1:A:276:ILE:O	1:A:369:ALA:N	2.48	0.43
1:A:386:GLU:O	1:A:389:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:12:CYS:CB	5:B:501:GDP:C4	2.98	0.43
1:C:311:LYS:HG2	1:C:342:GLN:CB	2.44	0.43
1:C:83:TYR:HB3	1:C:86:LEU:CB	2.46	0.43
2:D:396:HIS:CD2	1:E:263:PRO:HD3	2.53	0.43
2:D:80:PRO:O	2:D:81:PHE:HB2	2.18	0.43
1:E:134:GLY:HA3	1:E:165:SER:HB2	2.01	0.43
1:A:191:THR:HA	1:A:194:LEU:HB3	2.01	0.42
2:B:80:PRO:O	2:B:81:PHE:HB2	2.18	0.42
1:C:134:GLY:HA3	1:C:165:SER:HB2	2.01	0.42
1:C:191:THR:HA	1:C:194:LEU:HB3	2.01	0.42
1:C:276:ILE:O	1:C:369:ALA:N	2.48	0.42
1:C:349:THR:CB	2:B:176:SER:HB2	2.49	0.42
1:C:310:GLY:CA	1:C:383:ALA:HB2	2.45	0.42
2:D:12:CYS:CB	5:D:501:GDP:C4	2.98	0.42
2:D:182:PRO:CB	2:D:385:PHE:HB2	2.49	0.42
1:E:191:THR:HA	1:E:194:LEU:HB3	2.01	0.42
1:E:276:ILE:O	1:E:369:ALA:N	2.48	0.42
2:F:12:CYS:CB	5:F:501:GDP:C4	2.98	0.42
2:F:182:PRO:CB	2:F:385:PHE:HB2	2.49	0.42
2:F:80:PRO:O	2:F:81:PHE:HB2	2.18	0.42
1:A:241:SER:HB2	1:A:249:ASN:HB3	2.01	0.42
1:A:314:ALA:O	1:A:379:SER:HA	2.19	0.42
1:A:310:GLY:CA	1:A:383:ALA:HB2	2.45	0.42
1:C:314:ALA:O	1:C:379:SER:HA	2.19	0.42
2:D:208:TYR:HB3	1:E:326:LYS:HZ3	1.79	0.42
1:E:314:ALA:O	1:E:379:SER:HA	2.19	0.42
1:A:145:THR:CG2	1:A:149:LEU:HB3	2.45	0.42
1:A:184:PRO:O	1:A:188:ILE:HG13	2.18	0.42
1:C:184:PRO:O	1:C:188:ILE:HG13	2.18	0.42
1:C:241:SER:HB2	1:C:249:ASN:HB3	2.01	0.42
1:E:184:PRO:O	1:E:188:ILE:HG13	2.18	0.42
2:F:385:PHE:O	2:F:389:PHE:CB	2.66	0.42
1:A:407:TRP:CD2	2:B:255:VAL:HG13	2.54	0.42
1:C:145:THR:CG2	1:C:149:LEU:HB3	2.45	0.42
2:D:385:PHE:O	2:D:389:PHE:CB	2.66	0.42
1:E:145:THR:CG2	1:E:149:LEU:HB3	2.45	0.42
1:E:241:SER:HB2	1:E:249:ASN:HB3	2.01	0.42
2:F:97:ALA:C	2:F:103:LYS:HD2	2.39	0.42
2:F:190:HIS:O	2:F:193:VAL:HG22	2.20	0.42
2:F:32:PRO:HB3	2:F:81:PHE:HD1	1.85	0.42
1:A:4:VAL:HB	1:A:52:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:97:ALA:C	2:B:103:LYS:HD2	2.40	0.42
2:B:190:HIS:O	2:B:193:VAL:HG22	2.20	0.42
2:B:224:ASP:OD1	2:B:224:ASP:N	2.51	0.42
2:B:258:ILE:CD1	2:B:261:PRO:HA	2.50	0.42
2:B:385:PHE:O	2:B:389:PHE:CB	2.66	0.42
2:B:74:ASP:O	2:B:77:ARG:HB3	2.19	0.42
2:B:32:PRO:HB3	2:B:81:PHE:HD1	1.85	0.42
2:D:97:ALA:C	2:D:103:LYS:HD2	2.39	0.42
2:D:190:HIS:O	2:D:193:VAL:HG22	2.20	0.42
2:D:224:ASP:OD1	2:D:224:ASP:N	2.51	0.42
1:C:407:TRP:CD2	2:D:255:VAL:HG13	2.54	0.42
2:D:258:ILE:CD1	2:D:261:PRO:HA	2.50	0.42
2:D:32:PRO:HB3	2:D:81:PHE:HD1	1.85	0.42
1:E:4:VAL:HB	1:E:52:PHE:CZ	2.54	0.42
2:F:224:ASP:OD1	2:F:224:ASP:N	2.51	0.42
2:F:258:ILE:CD1	2:F:261:PRO:HA	2.50	0.42
2:F:74:ASP:O	2:F:77:ARG:HB3	2.19	0.42
1:A:20:CYS:O	1:A:23:LEU:HB3	2.20	0.42
2:B:137:HIS:CB	2:B:144:GLY:HA3	2.37	0.42
2:B:338:SER:HA	2:B:341:PHE:CD2	2.41	0.42
1:C:20:CYS:O	1:C:23:LEU:HB3	2.20	0.42
1:C:4:VAL:HB	1:C:52:PHE:CZ	2.55	0.42
2:D:338:SER:HA	2:D:341:PHE:CD2	2.41	0.42
2:D:74:ASP:O	2:D:77:ARG:HB3	2.19	0.42
1:E:20:CYS:O	1:E:23:LEU:HB3	2.20	0.42
2:F:116:VAL:HG21	2:F:147:MET:CE	2.50	0.42
2:F:225:LEU:HD23	2:F:225:LEU:HA	1.82	0.42
1:E:407:TRP:CD2	2:F:255:VAL:HG13	2.54	0.42
2:F:338:SER:HA	2:F:341:PHE:CD2	2.41	0.42
1:A:276:ILE:HD12	1:A:280:LYS:C	2.40	0.42
1:A:416:GLY:O	1:A:420:GLU:HB3	2.18	0.42
1:C:258:ASN:N	2:B:394:PHE:HE1	2.16	0.42
2:B:187:LEU:HD11	2:B:408:PHE:CZ	2.55	0.42
1:C:15:GLN:CB	3:C:501:GTP:O6	2.68	0.42
1:C:344:VAL:O	1:C:344:VAL:HG23	2.20	0.42
2:D:137:HIS:CB	2:D:144:GLY:HA3	2.37	0.42
1:E:416:GLY:O	1:E:420:GLU:HB3	2.18	0.42
2:F:137:HIS:CB	2:F:144:GLY:HA3	2.37	0.42
2:F:73:MET:CE	2:F:92:PHE:HB3	2.47	0.42
1:A:15:GLN:CB	3:A:501:GTP:O6	2.68	0.42
1:A:344:VAL:O	1:A:344:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:ASP:O	1:A:396:ASP:CB	2.53	0.42
2:B:116:VAL:HG21	2:B:147:MET:CE	2.50	0.42
2:B:116:VAL:HG21	2:B:147:MET:HE1	2.01	0.42
2:B:225:LEU:HA	2:B:225:LEU:HD23	1.82	0.42
2:B:237:THR:O	2:B:237:THR:HG22	2.19	0.42
2:B:3:GLU:HB2	2:B:49:VAL:HA	2.02	0.42
2:B:79:GLY:O	2:B:82:GLY:N	2.49	0.42
2:B:73:MET:CE	2:B:92:PHE:HB3	2.47	0.42
1:C:254:GLU:O	2:B:397:TRP:CH2	2.71	0.42
1:C:276:ILE:HD12	1:C:280:LYS:C	2.40	0.42
1:C:350:GLY:HA2	2:B:179:VAL:CA	2.43	0.42
1:C:416:GLY:O	1:C:420:GLU:HB3	2.18	0.42
2:D:116:VAL:HG21	2:D:147:MET:CE	2.50	0.42
2:D:116:VAL:HG21	2:D:147:MET:HE1	2.01	0.42
2:D:208:TYR:CG	1:E:326:LYS:CD	2.92	0.42
2:D:225:LEU:HA	2:D:225:LEU:HD23	1.82	0.42
2:D:285:THR:O	2:D:288:GLU:HB3	2.20	0.42
2:D:73:MET:CE	2:D:92:PHE:HB3	2.47	0.42
1:E:15:GLN:CB	3:E:501:GTP:O6	2.68	0.42
1:E:276:ILE:HD12	1:E:280:LYS:C	2.40	0.42
1:E:344:VAL:O	1:E:344:VAL:HG23	2.20	0.42
2:F:285:THR:O	2:F:288:GLU:HB3	2.20	0.42
2:F:318:ARG:N	2:F:364:ALA:HB3	2.33	0.42
2:F:54:ALA:O	2:F:57:GLY:N	2.42	0.42
1:A:150:GLY:O	1:A:153:LEU:HB3	2.20	0.42
2:B:285:THR:O	2:B:288:GLU:HB3	2.20	0.42
2:B:318:ARG:N	2:B:364:ALA:HB3	2.33	0.42
1:C:150:GLY:O	1:C:153:LEU:HB3	2.20	0.42
1:C:392:ASP:O	1:C:396:ASP:CB	2.53	0.42
2:D:187:LEU:HD11	2:D:408:PHE:CZ	2.55	0.42
2:D:237:THR:HG22	2:D:237:THR:O	2.19	0.42
2:D:318:ARG:N	2:D:364:ALA:HB3	2.33	0.42
2:D:3:GLU:HB2	2:D:49:VAL:HA	2.02	0.42
2:D:54:ALA:O	2:D:57:GLY:N	2.42	0.42
2:D:52:ASN:N	2:D:60:VAL:O	2.52	0.42
2:D:67:ASP:OD2	2:D:72:THR:HB	2.20	0.42
1:E:155:GLU:HA	1:E:197:HIS:CE1	2.54	0.42
1:E:392:ASP:O	1:E:396:ASP:CB	2.53	0.42
2:F:237:THR:O	2:F:237:THR:HG22	2.19	0.42
2:F:187:LEU:HD11	2:F:408:PHE:CZ	2.55	0.42
2:F:3:GLU:HB2	2:F:49:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:67:ASP:OD2	2:F:72:THR:HB	2.20	0.42
1:A:331:SER:O	1:A:334:THR:HB	2.19	0.42
1:A:246:GLY:HA2	1:A:356:ASN:HA	2.01	0.42
1:A:5:ILE:HG22	1:A:64:ARG:CB	2.47	0.42
2:B:120:VAL:O	2:B:123:GLU:HB2	2.19	0.42
2:B:52:ASN:N	2:B:60:VAL:O	2.52	0.42
2:B:54:ALA:O	2:B:57:GLY:N	2.42	0.42
2:B:67:ASP:OD2	2:B:72:THR:HB	2.20	0.42
2:B:72:THR:O	2:B:75:SER:OG	2.18	0.42
1:C:102:ASN:HB3	1:C:105:ARG:HB3	2.01	0.42
1:C:155:GLU:HA	1:C:197:HIS:CE1	2.55	0.42
1:C:331:SER:O	1:C:334:THR:HB	2.19	0.42
2:D:120:VAL:O	2:D:123:GLU:HB2	2.19	0.42
2:D:79:GLY:O	2:D:82:GLY:N	2.49	0.42
1:E:102:ASN:HB3	1:E:105:ARG:HB3	2.02	0.42
1:E:150:GLY:O	1:E:153:LEU:HB3	2.20	0.42
1:E:331:SER:O	1:E:334:THR:HB	2.19	0.42
1:E:312:TYR:HD1	1:E:381:SER:HB2	1.85	0.42
2:F:52:ASN:N	2:F:60:VAL:O	2.52	0.42
2:F:79:GLY:O	2:F:82:GLY:N	2.49	0.42
1:A:102:ASN:HB3	1:A:105:ARG:HB3	2.02	0.41
1:A:155:GLU:HA	1:A:197:HIS:CE1	2.55	0.41
1:A:312:TYR:HD1	1:A:381:SER:HB2	1.85	0.41
2:B:113:ILE:HD12	2:B:147:MET:CE	2.47	0.41
1:C:169:PHE:CD1	1:C:202:VAL:HG12	2.55	0.41
1:C:31:GLN:N	1:C:35:GLN:O	2.49	0.41
1:C:5:ILE:HG22	1:C:64:ARG:CB	2.47	0.41
2:D:113:ILE:HD12	2:D:147:MET:CE	2.47	0.41
2:D:72:THR:O	2:D:75:SER:OG	2.18	0.41
1:E:169:PHE:CD1	1:E:202:VAL:HG12	2.55	0.41
1:E:31:GLN:N	1:E:35:GLN:O	2.49	0.41
2:F:113:ILE:HD12	2:F:147:MET:CE	2.47	0.41
2:F:120:VAL:O	2:F:123:GLU:HB2	2.19	0.41
2:F:72:THR:O	2:F:75:SER:OG	2.18	0.41
1:A:169:PHE:CD1	1:A:202:VAL:HG12	2.56	0.41
1:A:214:ARG:HA	1:A:219:ILE:HB	2.02	0.41
1:A:31:GLN:N	1:A:35:GLN:O	2.49	0.41
2:B:139:LEU:HG	2:B:168:SER:HB2	2.02	0.41
1:C:346:TRP:CE3	2:B:391:ARG:HB3	2.34	0.41
1:C:181:VAL:HG13	2:D:346:PRO:O	2.20	0.41
1:C:23:LEU:CD1	1:C:232:ALA:HB1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:312:TYR:HD1	1:C:381:SER:HB2	1.85	0.41
1:C:407:TRP:CZ2	2:D:255:VAL:HG22	2.55	0.41
1:E:181:VAL:HG13	2:F:346:PRO:O	2.20	0.41
1:E:5:ILE:HG22	1:E:64:ARG:CB	2.47	0.41
1:E:407:TRP:CZ2	2:F:255:VAL:HG22	2.55	0.41
1:A:181:VAL:HG13	2:B:346:PRO:O	2.20	0.41
1:A:213:CYS:O	1:A:219:ILE:HG12	2.21	0.41
1:A:23:LEU:CD1	1:A:232:ALA:HB1	2.51	0.41
1:A:407:TRP:CZ2	2:B:255:VAL:HG22	2.55	0.41
1:C:213:CYS:O	1:C:219:ILE:HG12	2.21	0.41
1:C:246:GLY:HA2	1:C:356:ASN:HA	2.01	0.41
1:C:5:ILE:O	1:C:136:LEU:N	2.46	0.41
2:D:138:SER:HB2	2:D:169:VAL:HB	2.01	0.41
1:E:104:ALA:O	1:E:108:TYR:CB	2.41	0.41
1:E:213:CYS:O	1:E:219:ILE:HG12	2.21	0.41
1:E:23:LEU:CD1	1:E:232:ALA:HB1	2.51	0.41
1:E:5:ILE:O	1:E:136:LEU:N	2.46	0.41
2:F:138:SER:HB2	2:F:169:VAL:HB	2.01	0.41
2:F:139:LEU:HG	2:F:168:SER:HB2	2.02	0.41
1:A:338:LYS:HD2	1:A:341:ILE:CG1	2.50	0.41
1:A:99:ALA:HB3	3:A:501:GTP:O1G	2.21	0.41
2:B:138:SER:HB2	2:B:169:VAL:HB	2.01	0.41
2:B:100:ASN:ND2	2:B:398:TYR:HA	2.33	0.41
1:C:104:ALA:O	1:C:108:TYR:CB	2.41	0.41
1:C:214:ARG:HA	1:C:219:ILE:HB	2.02	0.41
2:D:139:LEU:HG	2:D:168:SER:HB2	2.02	0.41
2:D:276:ARG:HA	2:D:276:ARG:NE	2.35	0.41
1:E:183:GLU:HB2	1:E:184:PRO:HD3	2.03	0.41
1:E:214:ARG:HA	1:E:219:ILE:HB	2.02	0.41
1:E:338:LYS:HD2	1:E:341:ILE:CG1	2.50	0.41
1:E:246:GLY:HA2	1:E:356:ASN:HA	2.01	0.41
1:E:392:ASP:OD1	1:E:422:ARG:HG3	2.20	0.41
1:E:99:ALA:HB3	3:E:501:GTP:O1G	2.21	0.41
2:F:317:PHE:CE2	2:F:326:VAL:HG13	2.53	0.41
1:A:104:ALA:O	1:A:108:TYR:CB	2.41	0.41
1:A:183:GLU:HB2	1:A:184:PRO:HD3	2.03	0.41
1:A:206:ASN:HA	1:A:209:ILE:CD1	2.40	0.41
1:A:317:MET:HG2	1:A:317:MET:O	2.21	0.41
1:A:338:LYS:HD2	1:A:341:ILE:HG13	2.03	0.41
1:A:392:ASP:OD1	1:A:422:ARG:HG3	2.20	0.41
1:A:5:ILE:O	1:A:136:LEU:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:252:LYS:O	2:B:256:ASN:ND2	2.53	0.41
2:B:183:TYR:OH	2:B:389:PHE:N	2.53	0.41
1:C:183:GLU:HB2	1:C:184:PRO:HD3	2.03	0.41
1:C:338:LYS:HD2	1:C:341:ILE:CG1	2.50	0.41
1:C:392:ASP:OD1	1:C:422:ARG:HG3	2.20	0.41
1:C:99:ALA:HB3	3:C:501:GTP:O1G	2.21	0.41
2:D:252:LYS:O	2:D:256:ASN:ND2	2.53	0.41
2:D:317:PHE:CE2	2:D:326:VAL:HG13	2.53	0.41
2:D:183:TYR:OH	2:D:389:PHE:N	2.53	0.41
2:D:100:ASN:ND2	2:D:398:TYR:HA	2.33	0.41
1:E:206:ASN:HA	1:E:209:ILE:CD1	2.40	0.41
1:E:338:LYS:HD2	1:E:341:ILE:HG13	2.03	0.41
2:F:252:LYS:O	2:F:256:ASN:ND2	2.53	0.41
2:F:100:ASN:ND2	2:F:398:TYR:HA	2.33	0.41
1:A:111:GLY:O	1:A:115:VAL:HG23	2.21	0.41
1:A:194:LEU:CD2	1:A:198:THR:HG21	2.51	0.41
1:A:265:ILE:HB	1:A:432:TYR:CE1	2.55	0.41
1:A:341:ILE:HG22	1:A:343:PHE:CE1	2.55	0.41
1:A:58:ALA:O	1:A:60:LYS:N	2.51	0.41
2:B:230:SER:O	2:B:234:SER:OG	2.38	0.41
2:B:276:ARG:HA	2:B:276:ARG:NE	2.35	0.41
1:C:111:GLY:O	1:C:115:VAL:HG23	2.21	0.41
1:C:194:LEU:CD2	1:C:198:THR:HG21	2.51	0.41
1:C:206:ASN:HA	1:C:209:ILE:CD1	2.41	0.41
1:C:265:ILE:HB	1:C:432:TYR:CE1	2.55	0.41
1:C:317:MET:HG2	1:C:317:MET:O	2.21	0.41
1:C:338:LYS:HD2	1:C:341:ILE:HG13	2.03	0.41
1:C:341:ILE:HG22	1:C:343:PHE:CE1	2.55	0.41
2:D:5:VAL:HA	2:D:62:ARG:O	2.20	0.41
2:D:394:PHE:HE1	1:E:258:ASN:CA	2.20	0.41
1:E:317:MET:HG2	1:E:317:MET:O	2.21	0.41
1:E:341:ILE:HG22	1:E:343:PHE:CE1	2.55	0.41
2:F:230:SER:O	2:F:234:SER:OG	2.38	0.41
2:F:276:ARG:HA	2:F:276:ARG:NE	2.35	0.41
2:F:183:TYR:OH	2:F:389:PHE:N	2.53	0.41
2:F:5:VAL:HA	2:F:62:ARG:O	2.20	0.41
2:B:317:PHE:CE2	2:B:326:VAL:HG13	2.53	0.41
2:B:186:THR:HG22	2:B:411:ALA:CB	2.50	0.41
2:B:418:LEU:O	2:B:421:GLU:HB3	2.21	0.41
2:B:222:TYR:HE1	5:B:501:GDP:C2	2.07	0.41
2:B:5:VAL:HA	2:B:62:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:THR:CB	2:B:397:TRP:CA	2.77	0.41
1:C:58:ALA:O	1:C:60:LYS:N	2.51	0.41
2:D:230:SER:O	2:D:234:SER:OG	2.38	0.41
2:D:392:LYS:HD2	2:D:395:LEU:CD2	2.51	0.41
1:E:111:GLY:O	1:E:115:VAL:HG23	2.21	0.41
1:E:194:LEU:CD2	1:E:198:THR:HG21	2.51	0.41
1:E:265:ILE:HB	1:E:432:TYR:CE1	2.55	0.41
1:A:69:ASP:OD1	1:A:70:LEU:N	2.54	0.41
2:B:392:LYS:HD2	2:B:395:LEU:CD2	2.51	0.41
2:B:4:ILE:HG12	2:B:50:TYR:HE1	1.85	0.41
1:C:23:LEU:HD13	1:C:232:ALA:HB1	2.01	0.41
1:C:416:GLY:O	1:C:420:GLU:HB2	2.21	0.41
2:D:382:ALA:HB2	2:D:415:MET:HE3	2.01	0.41
2:D:186:THR:HG22	2:D:411:ALA:CB	2.51	0.41
2:D:418:LEU:O	2:D:421:GLU:HB3	2.21	0.41
2:D:4:ILE:HG12	2:D:50:TYR:HE1	1.85	0.41
1:E:23:LEU:HD13	1:E:232:ALA:HB1	2.01	0.41
1:E:416:GLY:O	1:E:420:GLU:HB2	2.21	0.41
1:E:58:ALA:O	1:E:60:LYS:N	2.52	0.41
2:F:392:LYS:HD2	2:F:395:LEU:CD2	2.51	0.41
2:F:418:LEU:O	2:F:421:GLU:HB3	2.21	0.41
1:A:23:LEU:HD13	1:A:232:ALA:HB1	2.01	0.41
1:A:416:GLY:O	1:A:420:GLU:HB2	2.21	0.41
2:B:168:SER:N	2:B:202:ILE:HD12	2.36	0.41
2:B:20:PHE:CE2	2:B:24:ILE:HD11	2.55	0.41
2:B:382:ALA:HB2	2:B:415:MET:HE2	2.01	0.41
2:B:398:TYR:O	2:B:401:GLU:HB2	2.21	0.41
1:C:388:PHE:O	1:C:391:LEU:HB3	2.21	0.41
1:C:69:ASP:OD1	1:C:70:LEU:N	2.54	0.41
2:D:168:SER:N	2:D:202:ILE:HD12	2.36	0.41
2:D:222:TYR:HE1	5:D:501:GDP:C2	2.07	0.41
2:D:397:TRP:CH2	1:E:254:GLU:O	2.72	0.41
1:E:388:PHE:O	1:E:391:LEU:HB3	2.21	0.41
1:E:69:ASP:OD1	1:E:70:LEU:N	2.54	0.41
2:F:186:THR:HG22	2:F:411:ALA:CB	2.51	0.41
2:F:168:SER:N	2:F:202:ILE:HD12	2.36	0.41
2:F:382:ALA:HB2	2:F:415:MET:HE3	2.01	0.41
2:F:4:ILE:HG12	2:F:50:TYR:HE1	1.85	0.41
1:A:388:PHE:O	1:A:391:LEU:HB3	2.21	0.41
1:C:333:ALA:O	1:C:337:THR:OG1	2.27	0.41
2:D:20:PHE:CE2	2:D:24:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:398:TYR:O	2:D:401:GLU:HB2	2.21	0.41
2:F:20:PHE:CE2	2:F:24:ILE:HD11	2.55	0.41
2:F:398:TYR:O	2:F:401:GLU:HB2	2.21	0.41
2:F:222:TYR:HE1	5:F:501:GDP:C2	2.07	0.41
1:A:333:ALA:O	1:A:337:THR:OG1	2.27	0.41
1:A:320:ARG:CB	1:A:374:ALA:HB3	2.51	0.41
1:A:75:ILE:O	1:A:79:ARG:HD3	2.19	0.41
2:B:8:GLN:OE1	2:B:17:GLY:HA3	2.21	0.41
1:C:257:THR:CG2	2:B:397:TRP:HA	2.48	0.41
2:B:41:ASP:O	2:B:44:LEU:N	2.51	0.41
2:B:51:TYR:HA	2:B:51:TYR:HD1	1.75	0.41
1:C:320:ARG:CB	1:C:374:ALA:HB3	2.51	0.41
1:C:427:ALA:O	1:C:430:LYS:HB3	2.21	0.41
2:D:164:MET:SD	2:D:196:ALA:HA	2.61	0.41
2:D:200:MET:HB3	2:D:268:ILE:CD1	2.51	0.41
1:E:333:ALA:O	1:E:337:THR:OG1	2.27	0.41
1:E:427:ALA:O	1:E:430:LYS:HB3	2.21	0.41
2:F:8:GLN:OE1	2:F:17:GLY:HA3	2.21	0.41
2:F:200:MET:HB3	2:F:268:ILE:CD1	2.51	0.41
2:F:278:SER:O	2:F:281:TYR:N	2.52	0.41
2:F:41:ASP:O	2:F:44:LEU:N	2.51	0.41
1:A:340:THR:HG23	1:A:341:ILE:CD1	2.52	0.40
1:A:427:ALA:O	1:A:430:LYS:HB3	2.21	0.40
2:B:200:MET:HB3	2:B:268:ILE:CD1	2.52	0.40
2:B:278:SER:O	2:B:281:TYR:N	2.52	0.40
2:B:7:ILE:CG1	2:B:64:ILE:HB	2.38	0.40
1:C:340:THR:HG23	1:C:341:ILE:CD1	2.51	0.40
1:C:75:ILE:O	1:C:79:ARG:HD3	2.19	0.40
2:D:8:GLN:OE1	2:D:17:GLY:HA3	2.21	0.40
2:D:278:SER:O	2:D:281:TYR:N	2.52	0.40
2:D:41:ASP:O	2:D:44:LEU:N	2.52	0.40
2:D:51:TYR:HD1	2:D:51:TYR:HA	1.75	0.40
2:D:7:ILE:CG1	2:D:64:ILE:HB	2.38	0.40
1:E:320:ARG:CB	1:E:374:ALA:HB3	2.51	0.40
1:E:75:ILE:O	1:E:79:ARG:HD3	2.19	0.40
2:F:164:MET:SD	2:F:196:ALA:HA	2.61	0.40
2:F:51:TYR:HD1	2:F:51:TYR:HA	1.75	0.40
1:A:9:VAL:HG12	1:A:146:GLY:CA	2.50	0.40
1:A:334:THR:HA	1:A:337:THR:OG1	2.22	0.40
2:B:164:MET:SD	2:B:196:ALA:HA	2.62	0.40
1:C:9:VAL:HG12	1:C:146:GLY:CA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:212:ILE:O	1:C:216:ASN:N	2.46	0.40
1:C:334:THR:HA	1:C:337:THR:OG1	2.21	0.40
2:D:317:PHE:O	2:D:353:ILE:HA	2.21	0.40
1:E:9:VAL:HG12	1:E:146:GLY:CA	2.50	0.40
1:E:212:ILE:O	1:E:216:ASN:N	2.46	0.40
1:E:334:THR:HA	1:E:337:THR:OG1	2.22	0.40
1:E:340:THR:HG23	1:E:341:ILE:CD1	2.52	0.40
2:F:21:TRP:CE2	2:F:63:ALA:HB2	2.55	0.40
1:A:256:GLN:HG3	1:A:257:THR:N	2.36	0.40
2:B:21:TRP:CE2	2:B:63:ALA:HB2	2.56	0.40
2:B:47:ILE:HD11	2:B:51:TYR:HD2	1.86	0.40
2:B:6:HIS:N	2:B:62:ARG:O	2.49	0.40
2:D:6:HIS:N	2:D:62:ARG:O	2.49	0.40
2:D:21:TRP:CE2	2:D:63:ALA:HB2	2.56	0.40
2:D:87:PRO:O	2:D:90:PHE:HD2	2.04	0.40
1:E:368:LEU:HD12	1:E:369:ALA:N	2.36	0.40
2:F:168:SER:C	2:F:202:ILE:HD12	2.42	0.40
2:F:317:PHE:O	2:F:353:ILE:HA	2.21	0.40
2:F:47:ILE:HD11	2:F:51:TYR:HD2	1.86	0.40
2:F:7:ILE:CG1	2:F:64:ILE:HB	2.38	0.40
1:A:211:ASP:C	1:A:214:ARG:HG3	2.42	0.40
1:A:212:ILE:O	1:A:216:ASN:N	2.46	0.40
1:A:368:LEU:HD12	1:A:369:ALA:N	2.36	0.40
2:B:168:SER:C	2:B:202:ILE:HD12	2.42	0.40
2:B:299:MET:HG3	2:B:305:PRO:HG2	2.03	0.40
2:B:317:PHE:O	2:B:353:ILE:HA	2.21	0.40
2:B:323:THR:O	2:B:326:VAL:N	2.55	0.40
2:B:87:PRO:O	2:B:90:PHE:HD2	2.04	0.40
1:C:211:ASP:C	1:C:214:ARG:HG3	2.42	0.40
1:C:256:GLN:HG3	1:C:257:THR:N	2.37	0.40
2:D:168:SER:C	2:D:202:ILE:HD12	2.42	0.40
2:D:220:PRO:HG2	1:E:324:VAL:CG1	2.51	0.40
2:D:316:LEU:HA	2:D:316:LEU:HD13	1.99	0.40
2:D:47:ILE:HD11	2:D:51:TYR:HD2	1.86	0.40
1:E:211:ASP:C	1:E:214:ARG:HG3	2.42	0.40
1:E:225:THR:HG23	1:E:226:ASN:N	2.36	0.40
2:F:103:LYS:HG2	2:F:108:GLU:OE1	2.21	0.40
2:F:6:HIS:N	2:F:62:ARG:O	2.49	0.40
2:F:87:PRO:O	2:F:90:PHE:HD2	2.04	0.40
1:A:312:TYR:O	1:A:343:PHE:HA	2.22	0.40
1:A:324:VAL:HB	1:A:327:ASP:OD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:ARG:O	1:A:394:LYS:HG2	2.21	0.40
2:B:199:CYS:O	2:B:266:PHE:N	2.48	0.40
2:B:316:LEU:HD13	2:B:316:LEU:HA	1.99	0.40
2:B:318:ARG:HG2	2:B:354:CYS:CB	2.52	0.40
1:C:225:THR:HG23	1:C:226:ASN:N	2.36	0.40
1:C:312:TYR:O	1:C:343:PHE:HA	2.22	0.40
1:C:324:VAL:HB	1:C:327:ASP:OD2	2.21	0.40
1:C:368:LEU:HD12	1:C:369:ALA:N	2.37	0.40
2:D:103:LYS:HG2	2:D:108:GLU:OE1	2.21	0.40
2:D:169:VAL:HA	2:D:202:ILE:CB	2.38	0.40
2:D:299:MET:HG3	2:D:305:PRO:HG2	2.03	0.40
2:D:323:THR:O	2:D:326:VAL:N	2.55	0.40
1:E:256:GLN:HG3	1:E:257:THR:N	2.37	0.40
2:D:176:SER:CB	1:E:349:THR:HG1	2.16	0.40
1:E:390:ARG:O	1:E:394:LYS:HG2	2.21	0.40
2:F:169:VAL:HA	2:F:202:ILE:CB	2.38	0.40
2:F:299:MET:HG3	2:F:305:PRO:HG2	2.03	0.40
2:F:316:LEU:HA	2:F:316:LEU:HD13	1.99	0.40
2:F:318:ARG:HG2	2:F:354:CYS:CB	2.52	0.40
2:F:323:THR:O	2:F:326:VAL:N	2.55	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	439/441 (100%)	377 (86%)	59 (13%)	3 (1%)	25	68
1	C	439/441 (100%)	377 (86%)	59 (13%)	3 (1%)	25	68
1	E	439/441 (100%)	377 (86%)	59 (13%)	3 (1%)	25	68
2	B	427/429 (100%)	388 (91%)	38 (9%)	1 (0%)	51	84

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D	427/429 (100%)	388 (91%)	38 (9%)	1 (0%)	51	84
2	F	427/429 (100%)	388 (91%)	38 (9%)	1 (0%)	51	84
All	All	2598/2610 (100%)	2295 (88%)	291 (11%)	12 (0%)	37	74

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	49	PHE
1	E	49	PHE
1	A	49	PHE
1	C	344	VAL
1	E	344	VAL
1	A	344	VAL
1	C	143	GLY
2	D	142	GLY
1	E	143	GLY
2	F	142	GLY
1	A	143	GLY
2	B	142	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	371/371 (100%)	365 (98%)	6 (2%)	68	85
1	C	371/371 (100%)	365 (98%)	6 (2%)	68	85
1	E	371/371 (100%)	365 (98%)	6 (2%)	68	85
2	B	365/365 (100%)	362 (99%)	3 (1%)	85	92
2	D	365/365 (100%)	362 (99%)	3 (1%)	85	92
2	F	365/365 (100%)	362 (99%)	3 (1%)	85	92
All	All	2208/2208 (100%)	2181 (99%)	27 (1%)	77	88

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	84	ARG
1	C	128	ASN
1	C	224	TYR
1	C	268	MET
1	C	283	HIS
1	C	380	ASN
2	D	222	TYR
2	D	281	TYR
2	D	332	ASN
1	E	84	ARG
1	E	128	ASN
1	E	224	TYR
1	E	268	MET
1	E	283	HIS
1	E	380	ASN
2	F	222	TYR
2	F	281	TYR
2	F	332	ASN
1	A	84	ARG
1	A	128	ASN
1	A	224	TYR
1	A	268	MET
1	A	283	HIS
1	A	380	ASN
2	B	222	TYR
2	B	281	TYR
2	B	332	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (58) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	31	GLN
1	C	101	ASN
1	C	107	HIS
1	C	186	ASN
1	C	380	ASN
2	D	28	HIS
2	D	37	HIS
2	D	52	ASN
2	D	184	ASN
2	D	191	GLN
2	D	195	ASN
2	D	256	ASN

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Mol	Chain	Res	Type
2	D	332	ASN
2	D	334	GLN
2	D	335	ASN
2	D	375	GLN
2	D	414	ASN
2	D	416	ASN
2	D	426	GLN
1	E	31	GLN
1	E	101	ASN
1	E	107	HIS
1	E	186	ASN
1	E	380	ASN
2	F	28	HIS
2	F	37	HIS
2	F	52	ASN
2	F	184	ASN
2	F	191	GLN
2	F	195	ASN
2	F	256	ASN
2	F	332	ASN
2	F	334	GLN
2	F	335	ASN
2	F	375	GLN
2	F	396	HIS
2	F	414	ASN
2	F	416	ASN
2	F	426	GLN
1	A	31	GLN
1	A	101	ASN
1	A	107	HIS
1	A	186	ASN
1	A	380	ASN
2	B	28	HIS
2	B	37	HIS
2	B	52	ASN
2	B	184	ASN
2	B	191	GLN
2	B	195	ASN
2	B	256	ASN
2	B	332	ASN
2	B	334	GLN
2	B	335	ASN

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Mol	Chain	Res	Type
2	B	375	GLN
2	B	414	ASN
2	B	416	ASN
2	B	426	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 9 ligands modelled in this entry, 3 are monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	GTP	A	501	1	27,34,34	1.24	4 (14%)	24,54,54	1.52	2 (8%)
5	GDP	B	501	2	25,30,30	1.29	4 (16%)	23,47,47	1.58	5 (21%)
3	GTP	C	501	1	27,34,34	1.23	4 (14%)	24,54,54	1.53	2 (8%)
5	GDP	D	501	2	25,30,30	1.29	4 (16%)	23,47,47	1.58	5 (21%)
3	GTP	E	501	1	27,34,34	1.23	4 (14%)	24,54,54	1.53	2 (8%)
5	GDP	F	501	2	25,30,30	1.29	4 (16%)	23,47,47	1.59	5 (21%)

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
3	GTP	A	501	1	-	0/18/38/38	0/3/3/3
5	GDP	B	501	2	-	0/12/32/32	0/3/3/3
3	GTP	C	501	1	-	0/18/38/38	0/3/3/3
5	GDP	D	501	2	-	0/12/32/32	0/3/3/3
3	GTP	E	501	1	-	0/18/38/38	0/3/3/3
5	GDP	F	501	2	-	0/12/32/32	0/3/3/3

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	501	GTP	O4'-C1'	2.10	1.44	1.41
3	A	501	GTP	O4'-C1'	2.16	1.44	1.41
3	C	501	GTP	O4'-C1'	2.19	1.44	1.41
5	D	501	GDP	O4'-C1'	2.35	1.44	1.41
5	F	501	GDP	O4'-C1'	2.37	1.44	1.41
5	B	501	GDP	O4'-C1'	2.42	1.44	1.41
3	A	501	GTP	C2-N1	2.51	1.40	1.36
3	E	501	GTP	C6-N1	2.52	1.40	1.36
3	C	501	GTP	C2-N1	2.53	1.40	1.36
3	C	501	GTP	C6-N1	2.54	1.40	1.36
3	A	501	GTP	C6-N1	2.55	1.40	1.36
3	E	501	GTP	C2-N1	2.58	1.40	1.36
5	B	501	GDP	C2-N1	2.64	1.40	1.36
5	F	501	GDP	C2-N1	2.66	1.40	1.36
5	D	501	GDP	C2-N1	2.67	1.40	1.36
5	F	501	GDP	C6-N1	2.68	1.40	1.36
5	B	501	GDP	C6-N1	2.70	1.40	1.36
5	D	501	GDP	C6-N1	2.72	1.40	1.36
3	C	501	GTP	PG-O1G	3.06	1.61	1.50
3	E	501	GTP	PG-O1G	3.09	1.61	1.50
3	A	501	GTP	PG-O1G	3.10	1.61	1.50
5	B	501	GDP	PB-O1B	3.11	1.61	1.50
5	F	501	GDP	PB-O1B	3.11	1.61	1.50
5	D	501	GDP	PB-O1B	3.12	1.61	1.50

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	501	GDP	C4-C5-N7	-2.41	107.08	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	501	GDP	C4-C5-N7	-2.39	107.10	109.41
5	B	501	GDP	C4-C5-N7	-2.38	107.11	109.41
3	A	501	GTP	C4'-O4'-C1'	-2.32	107.30	109.77
5	D	501	GDP	C2'-C3'-C4'	-2.30	98.14	102.62
5	F	501	GDP	C2'-C3'-C4'	-2.30	98.14	102.62
3	C	501	GTP	C4'-O4'-C1'	-2.30	107.33	109.77
3	E	501	GTP	C4'-O4'-C1'	-2.28	107.34	109.77
5	B	501	GDP	C2'-C3'-C4'	-2.26	98.22	102.62
5	F	501	GDP	C4'-O4'-C1'	-2.22	107.40	109.77
5	D	501	GDP	C4'-O4'-C1'	-2.21	107.42	109.77
5	B	501	GDP	C4'-O4'-C1'	-2.19	107.44	109.77
5	B	501	GDP	C5'-C4'-C3'	-2.12	107.21	115.29
5	F	501	GDP	C5'-C4'-C3'	-2.11	107.25	115.29
5	D	501	GDP	C5'-C4'-C3'	-2.10	107.29	115.29
3	A	501	GTP	C2-N3-C4	5.01	121.01	115.16
3	E	501	GTP	C2-N3-C4	5.04	121.05	115.16
3	C	501	GTP	C2-N3-C4	5.05	121.05	115.16
5	D	501	GDP	C2-N3-C4	5.19	121.22	115.16
5	B	501	GDP	C2-N3-C4	5.21	121.25	115.16
5	F	501	GDP	C2-N3-C4	5.22	121.25	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 186 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	501	GTP	41	0
5	B	501	GDP	21	0
3	C	501	GTP	41	0
5	D	501	GDP	21	0
3	E	501	GTP	41	0
5	F	501	GDP	21	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1
1	C	1
1	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	35:GLN	C	36:MET	N	1.15
1	E	35:GLN	C	36:MET	N	1.15
1	A	35:GLN	C	36:MET	N	1.15