



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 03:47 PM UTC

PDB ID : 8UXE / pdb_00008uxe
EMDB ID : EMD-42761
Title : Structure of PKA phosphorylated human RyR2-R420Q in the closed state in the presence of ARM210
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2023-11-09
Resolution : 3.53 Å(reported)
Based on initial model : 7UA5

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

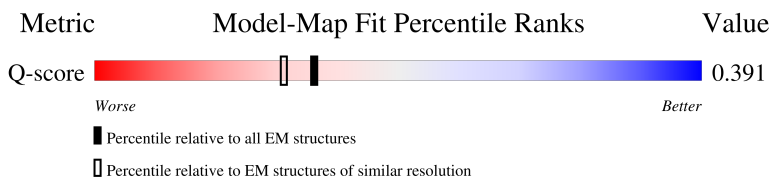
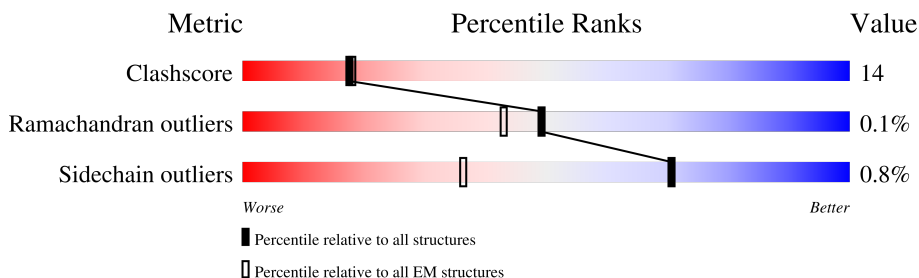
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.53 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.



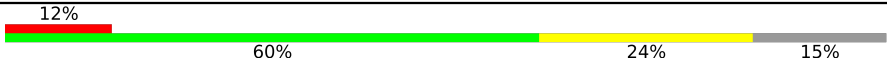
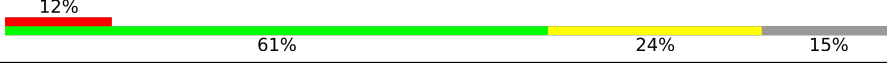
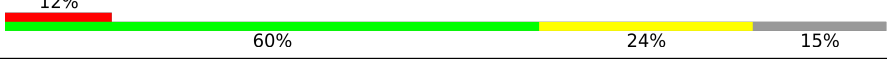
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	12947 (3.03 - 4.02)

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

Mol	Chain	Length	Quality of chain
1	E	108	 73% 24% ..
1	F	108	 74% 23% ..
1	G	108	 73% 24% ..
1	H	108	 74% 23% ..

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Mol	Chain	Length	Quality of chain
2	A	4967	
2	B	4967	
2	C	4967	
2	D	4967	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 138692 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	E	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	F	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	G	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

- Molecule 2 is a protein called Ryanodine receptor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	4224	Total	C	N	O	S	2	0
			33769	21515	5743	6281	230		
2	B	4224	Total	C	N	O	S	2	0
			33769	21515	5743	6281	230		
2	C	4224	Total	C	N	O	S	2	0
			33769	21515	5743	6281	230		
2	D	4224	Total	C	N	O	S	2	0
			33769	21515	5743	6281	230		

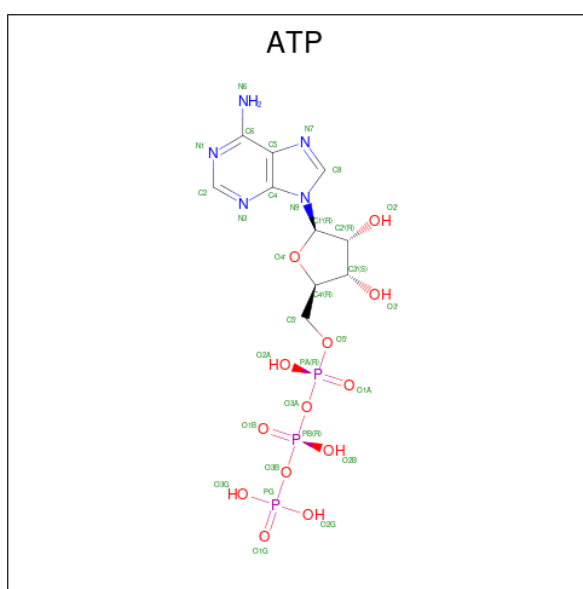
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	420	GLN	ARG	conflict	UNP Q92736
B	420	GLN	ARG	conflict	UNP Q92736
C	420	GLN	ARG	conflict	UNP Q92736
D	420	GLN	ARG	conflict	UNP Q92736

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
3	A	1	Total	Zn	0
			1	1	
3	B	1	Total	Zn	0
			1	1	
3	C	1	Total	Zn	0
			1	1	
3	D	1	Total	Zn	0
			1	1	

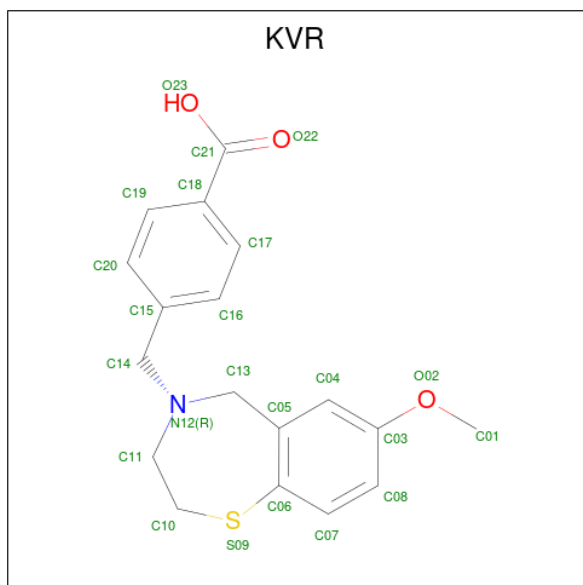
- Molecule 4 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).



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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
4	D	1	31	10	5	13	3	0

- Molecule 5 is 4-[(7-methoxy-2,3-dihydro-1,4-benzothiazepin-4(5H)-yl)methyl]benzoic acid (CCD ID: KVR) (formula: C₁₈H₁₉NO₃S) (labeled as "Ligand of Interest" by depositor).

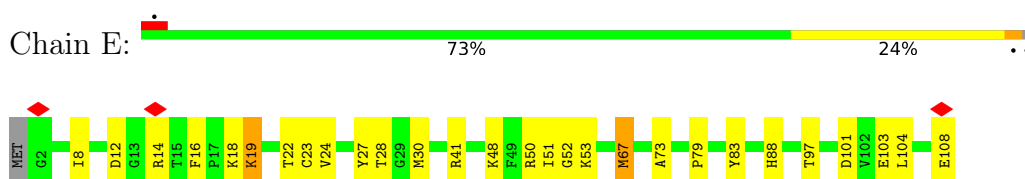


Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	S	
5	A	1	23	18	1	3	1	0
5	B	1	23	18	1	3	1	0
5	C	1	23	18	1	3	1	0
5	D	1	23	18	1	3	1	0

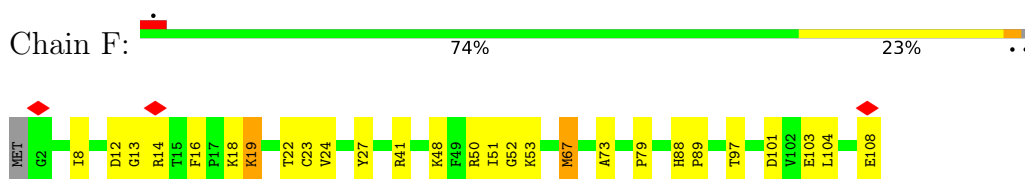
3 Residue-property plots

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

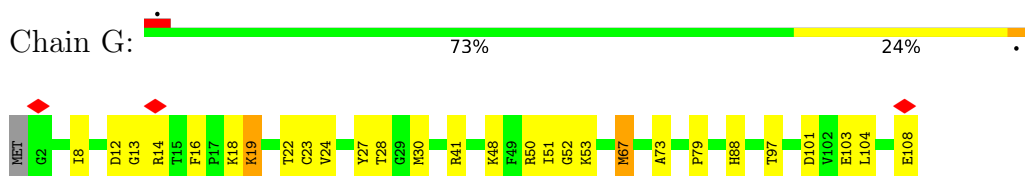
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



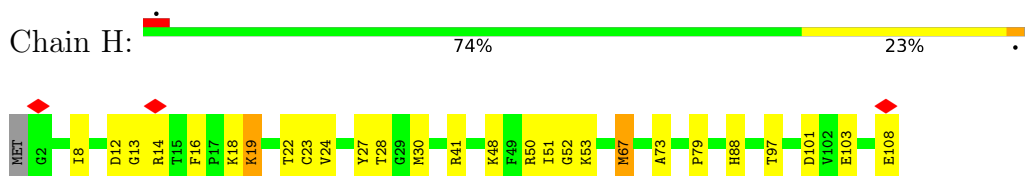
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



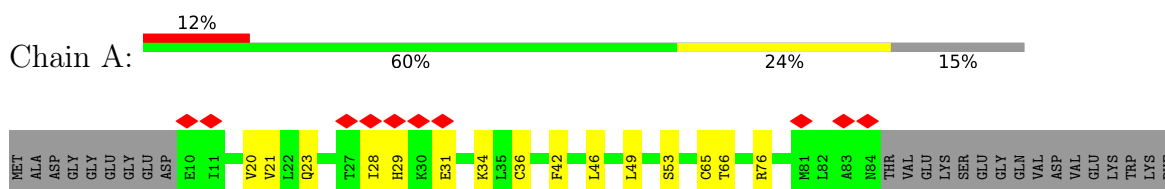
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



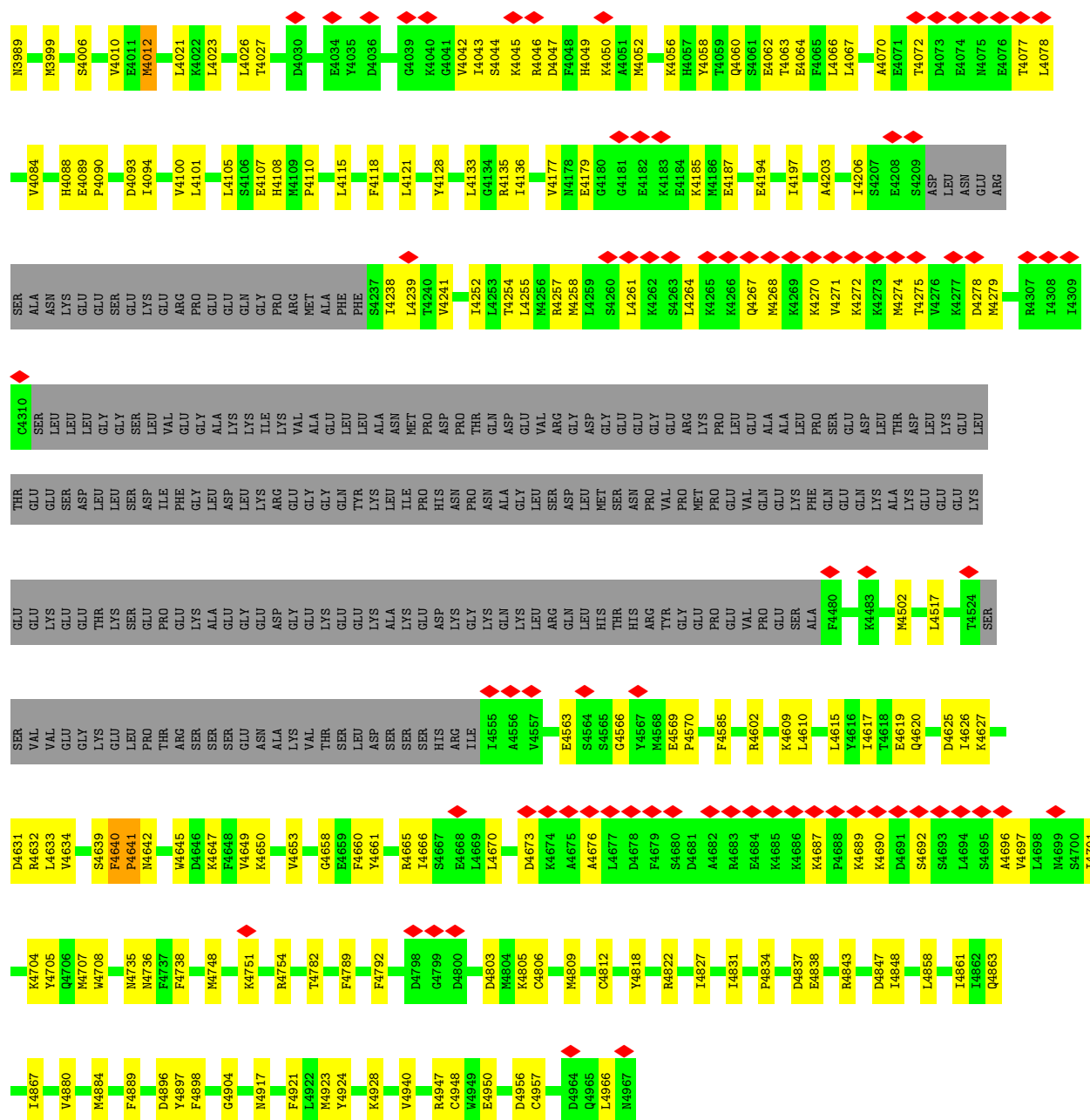
- Molecule 2: Ryanodine receptor 2



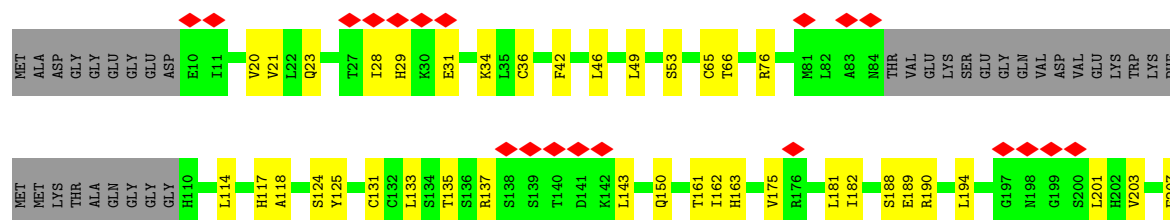


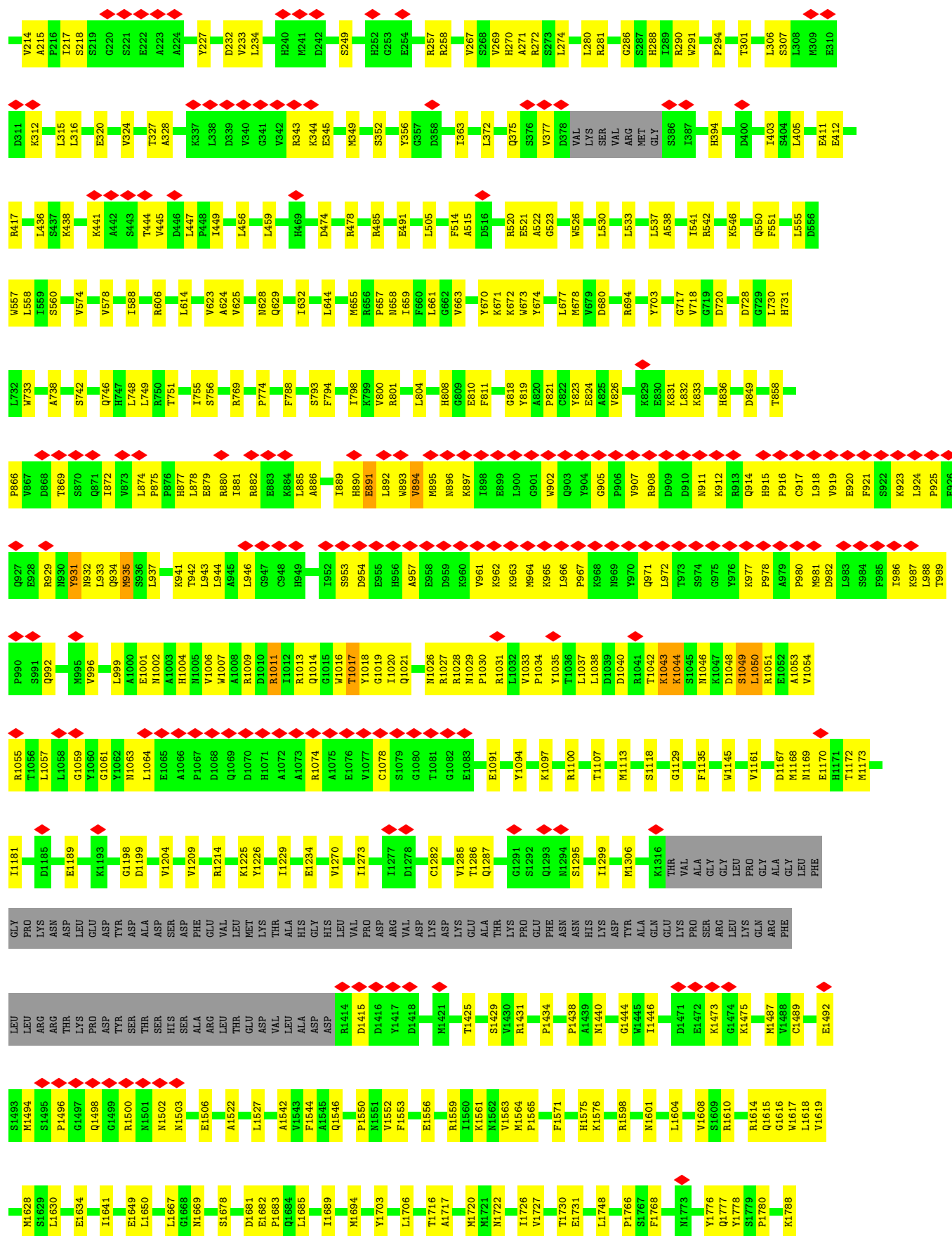






• Molecule 2: Ryanodine receptor 2





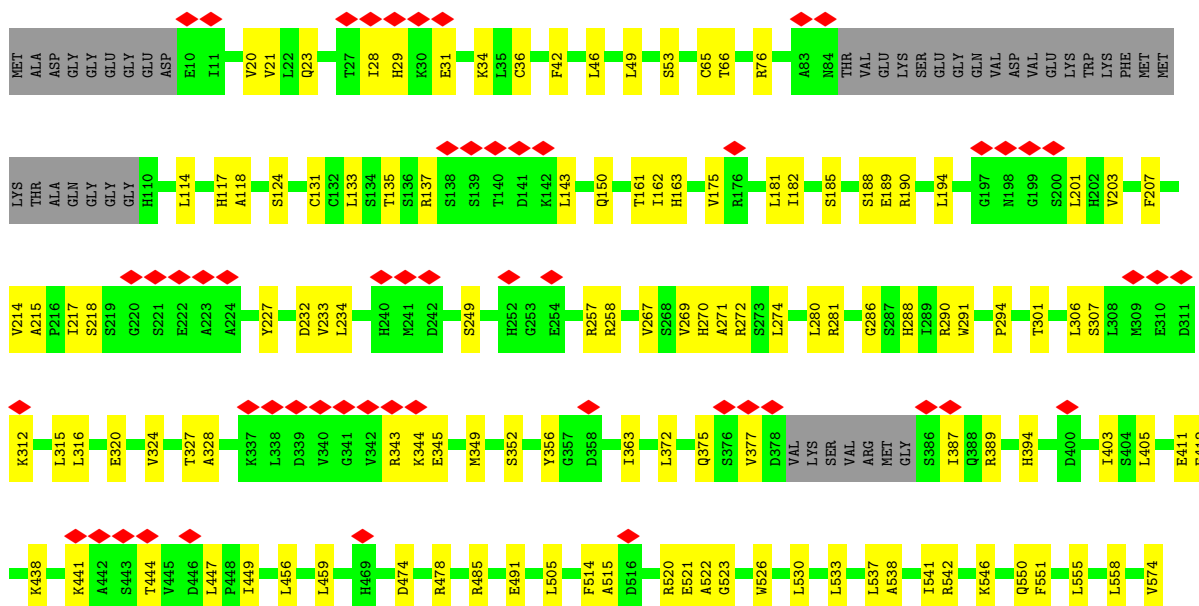
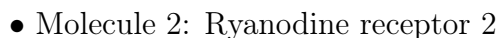






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K4050	L3940	R3810	D3655	GLU	GLN	GLU	ALA	GLU	ALA	L3322	W3250	E3172	R3095	R3024
M4051	M3941	F3815	E3656	LYS	LYS	GLU	VAL	ASP	ALA	R3323	P3254	T3173	Y3096	D3025
E4179	D3942	G3816	G3657	SER	SER	VAL	VAL	VAL	TRP	E3324	R3174	H3174	T3097	A3026
K4056	V3945	G3818	R3658	LYS	LYS	ARG	ASP	GLN	GLU	L3325	E3255	D3175	A3100	T3029
H4057	G3946	G3818	K3659	ARG	ARG	ILE	GLU	GLU	PRO	K3327	N3256	D3176	L3101	L3102
Y4058	R3660	L3817	R3660	VAL	GLY	ILE	ILE	ARG	ASN	K3328	R3260	H3178	L3102	L3101
K4060	A3952	M3819	V3661	ARG	ARG	ILE	LYS	LYS	PRO	K3329	A3261	T3183	L3036	M3104
E4184	S4061	F3820	L3664	ARG	HIS	SER	GLU	GLU	ALA	A3330	E3262	Y3184	L3037	S3107
S4061	L3958	T3821	H3665	TRP	TRP	ILE	LYS	LYS	ALA	A3331	M3263	K3187	Q3038	Q3038
E4052	L3967	E3822	Q3666	CYS	CYS	HIS	ARG	GLU	GLU	T3332	C3264	S3188	T3039	L3040
T4063	L3968	E3823	M3689	VAL	VAL	LEU	LYS	LEU	LEU	V3333	C3265	S3189	L3041	D3041
F4085	E3824	G3824	A3690	VAL	VAL	GLN	GLY	PHE	PHE	V3334	A3267	R3190	R3043	R3042
K4066	M3972	S3825	Y3691	HIS	HIS	GLY	ASP	GLY	ASP	S3335	L3268	E3191	T3044	T3044
L4067	Q3826	G3826	M3695	PRO	PRO	LEU	TYR	VAL	VAL	E3336	N3269	R3192	V3045	V3045
K4070	Q3975	E3827	A3696	GLN	GLN	GLU	SER	ALA	ALA	E3337	E3271	N3200	K3046	K3046
E4071	V3979	E3827	K3697	ARG	ARG	ASP	MET	GLU	GLU	ASP	H3272	W3200	L3121	K3047
T4072	D3838	D3838	G3697	SER	SER	PRO	GLN	VAL	VAL	HIS	M3273	V3201	E3124	L3050
D4073	L3982	L3982	H3700	LYS	LYS	ALA	THR	PHE	PHE	LYS	N3274	V3204	D3125	D3125
E4074	L3986	Q3844	D3701	ALA	ALA	ILE	SER	ILE	LYS	LYS	T3275	V3204	V3126	V3053
N4075	L3846	L3845	E3702	VAL	VAL	TRP	ILE	TRP	TRP	GLU	L3276	T3208	Q3127	K3054
E4076	N3989	GLU	GLU	TRP	TRP	GLN	VAL	SER	SER	ASP	G3278	R3211	C3130	L3057
T4077	M3999	H3850	ASP	HIS	HIS	MET	ALA	LYS	ALA	ARG	N3280	Y3131	R3132	R3058
L4078	M3999	F3854	ASP	LYS	LYS	LEU	LEU	SER	LEU	ASP	K3281	E3212	R3132	R3058
E4081	S4006	GLU	GLU	LEU	LEU	TYR	LYS	ASN	ASN	MET	K3282	K3213	I3133	I3133
V4084	V4010	GLU	GLU	LYS	LYS	ASP	ARG	PHE	PHE	SER	I3283	N3214	L3134	L3134
H4088	E4011	N3864	E3710	GLN	GLN	LEU	LEU	ARG	ALA	GLU	I3284	N3215	S3135	S3135
P4090	M4012	N3864	V3711	ARG	ARG	PRO	PRO	GLU	GLU	GLU	Y3285	E3216	S3136	S3136
L4021	L4021	I3870	K3712	LYS	LYS	ASN	ILE	GLU	GLU	LEU	N3286	T3217	L3140	L3068
K4022	K4022	Q3882	E3716	ALA	ALA	THR	GLY	ARG	GLY	LEU	N3287	T3218	E3069	E3069
L4023	L4023	E3883	K3717	VAL	VAL	ASP	LEU	ASN	ASN	ILE	L3288	V3219	K3070	K3070
L4026	L4026	S3884	Q3721	ASP	ASP	ASP	ASN	ILE	VAL	ASP	I3290	L3221	K3144	T3071
T4027	T4027	V3890	Q3721	THR	THR	THR	CYS	VAL	ALA	GLU	E3291	R3227	S3145	K3072
D4030	D4030	Y3891	Q3728	ASP	ASP	ASP	PRO	GLN	ASN	PHE	D3292	Y3228	T3146	E3073
K4033	K4033	Y3891	A3729	PRO	PRO	PRO	GLY	ASN	ASN	THR	M3296	T3229	R3074	R3074
S4106	S4106	Y3896	R3730	GLU	GLU	GLU	ASP	ILE	ILE	THR	K3297	Q3230	V3148	L3075
E4107	E4034	L3731	K3604	LYS	LYS	THR	ASN	ASN	ALA	LEU	R3298	K3231	E3149	K3076
H4108	Y4035	H3732	M3605	THR	THR	LYS	GLU	ASN	ARG	R3233	R3299	H3233	R3150	Q3077
N4109	E3900	D3733	A3606	VAL	VAL	VAL	LEU	MET	ASP	R3234	A3300	Q3079	Q3151	Q3078
P4110	D4036	R3734	P3607	ARG	ALA	PHE	THR	SER	THR	K3235	V3301	R3152	S3153	Q3079
R3904	R3904	N3610	N3610	VAL	LEU	LEU	LEU	ALA	ALA	E3236	Q3304	E3237	F3080	F3080
R3905	R3905	P3753	P3753	LEU	LEU	LEU	ALA	ILE	PHE	PHE	L3154	T3237	T3081	T3081
F3906	F3906	T3763	T3763	ASP	ASP	ASP	LYS	THR	THR	TYR	I3307	T3238	HIS	HIS
L3920	L3920	I3765	I3765	ILE	ILE	ILE	ASN	ASP	ASP	PRO	R3308	L3239	F3162	THR
T3921	T3921	A3764	A3764	ALA	ALA	ALA	ARG	THR	THR	LEU	K3309	P3240	A3163	ARG
E3922	E3922	R3923	R3923	ASN	ASN	ASN	PHE	LYS	LYS	LEU	K3310	M3241	A3163	ASN
Y3923	Y3923	A3649	A3649	VAL	VAL	VAL	SER	SER	SER	ILE	V3310	L3242	G3164	GLN
K4045	K4045	M3797	M3797	LEU	LEU	PHE	LYS	MET	PHE	ARG	K3311	Y3245	F3166	PRO
R4046	R4046	L3924	E3650	PHE	PHE	PHE	LYS	MET	SER	PHE	L3315	M3246	P3167	K3088
D4047	D4047	Q3925	P3651	HIS	HIS	HIS	ASP	SER	THR	VAL	L3315	M3246	V3168	G3089
F4048	F4048	L3803	L3803	LYS	LYS	LYS	THR	LYS	THR	TYR	F3319	W3249	V3090	V3090
H4049	H4049	L3805	L3805	LEU	LEU	LEU	THR	LYS	THR	ASN	L3520	F3170	A3169	T3091
										ARG	P3321	L3171	F3170	Q3092
										ASN			L3093	T3094









F4921	K4751	K4649	GLU	GLY	LYS
L4922	R4754	K4650	ASN	GLU	ILE
M4923		ALA	ALA	ASP	LYS
Y4924	T4782	VAL	LYS	GLY	VAL
L4925		VAL	LYS	GLY	ALA
	F4789	G4658	THR	LYS	GLU
K4928		F4659	SER	GLU	LEU
	F4792	F4660	LEU	GLU	LEU
V4940		Y4661	ASP	LYS	LEU
R4947	D4798	R4665	SER	LYS	ASN
C4948	G4799	I4666	SER	ALA	MET
M4949	D4800		SER	GLU	PRO
E4950		L4670	HIS	ASP	ASP
			ARG	LYS	PRO
	D4803	D4673	ILE	GLY	THR
D4956	M4804	K4674	I4555	LYS	GLN
C4957	K4805	A4566	A4556	GLN	ASP
	C4806	A4675	V4557	LYS	GLY
	M4809	A4676	ARG	LEU	VAL
	C4812	D4677	E4562	ARG	ARG
	Y4818	D4678	E4563	GLN	GLY
	I4827	F4679	S4564	LEU	ASP
G4828		S4680		HIS	GLY
D4829		D4681	Y4567	THR	GLU
E4830		A4682	M4568	HIS	GLU
I4831		R4683	E4569	ARG	GLY
		F4684	P4570	TYR	ARG
	P4834	K4685	F4585	GLU	GLY
		K4686		VAL	LEU
D4847	D4837	K4687	R4602	PRO	GLU
I4848	E4838	P4688	K4609	ALA	ALA
		K4689	L4610	GLU	GLY
L4858	R4843	K4690	L4615	SER	LEU
I4861		D4691	L4616	ALA	PRO
G4864	D4847	S4692	I4617	GLN	GLU
	I4848	S4693	I4619	LYS	ASP
	L4858	L4694	Q4620	ALA	THR
	I4861	S4695		LYS	ASP
	G4864	A4696	D4625	GLU	LYS
V4880		V4697	I4626	LEU	GLU
M4884	V4880	S4700	K4627	THR	GLU
		I4701	D4631	GLY	ASP
	F4889	K4704	R4632	VAL	LEU
	D4896	Y4705	L4633	SER	LEU
Y4897	F4897	Q4706	V4634	LYS	LEU
F4898		W4708		GLU	ASP
			S4639	THR	GLU
G4904		M4726	F4640	PRO	ILE
		M4735	P4641	THR	PHE
N4917		M4736	M4642	ARG	GLY
		F4737		SER	LYS
		F4738	W4645	ARG	LEU
		M4748	D4646	SER	ALA
			K4647	SER	ASP
			F4648		

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	14924	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 ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.660	Depositor
Minimum map value	-0.004	Depositor
Average map value	0.017	Depositor
Map value standard deviation	0.035	Depositor
Recommended contour level	0.16	Depositor
Map size (Å)	426.752, 426.752, 426.752	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.8335, 0.8335, 0.8335	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	E	0.21	0/834	0.44	0/1123
1	F	0.21	0/834	0.44	0/1123
1	G	0.21	0/834	0.44	0/1123
1	H	0.21	0/834	0.44	0/1123
2	A	0.19	0/34509	0.44	6/46612 (0.0%)
2	B	0.20	0/34509	0.44	6/46612 (0.0%)
2	C	0.20	0/34509	0.44	6/46612 (0.0%)
2	D	0.20	0/34509	0.44	6/46612 (0.0%)
All	All	0.20	0/141372	0.44	24/190940 (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
2	A	0	1
2	B	0	1
2	C	0	1
2	D	0	1
All	All	0	4

There are no bond length outliers.

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	3262	GLU	CA-CB-CG	7.61	129.31	114.10
2	B	3262	GLU	CA-CB-CG	7.60	129.30	114.10
2	D	3262	GLU	CA-CB-CG	7.60	129.30	114.10
2	C	3262	GLU	CA-CB-CG	7.58	129.25	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2605	MET	CB-CG-SD	6.62	132.57	112.70
2	A	2605	MET	CB-CG-SD	6.62	132.55	112.70
2	D	2605	MET	CB-CG-SD	6.62	132.55	112.70
2	B	2605	MET	CB-CG-SD	6.61	132.52	112.70
2	C	2689	MET	CB-CG-SD	6.01	130.72	112.70
2	D	2689	MET	CB-CG-SD	6.01	130.72	112.70
2	A	2689	MET	CB-CG-SD	6.00	130.71	112.70
2	B	2689	MET	CB-CG-SD	6.00	130.70	112.70
2	B	2605	MET	CA-CB-CG	5.91	125.92	114.10
2	A	2605	MET	CA-CB-CG	5.91	125.92	114.10
2	C	2134	MET	CB-CG-SD	5.90	130.41	112.70
2	A	2134	MET	CB-CG-SD	5.90	130.40	112.70
2	C	2605	MET	CA-CB-CG	5.89	125.89	114.10
2	D	2605	MET	CA-CB-CG	5.89	125.88	114.10
2	B	2134	MET	CB-CG-SD	5.89	130.37	112.70
2	D	2134	MET	CB-CG-SD	5.88	130.34	112.70
2	C	2798	MET	CB-CG-SD	5.36	128.78	112.70
2	B	2798	MET	CB-CG-SD	5.35	128.75	112.70
2	A	2798	MET	CB-CG-SD	5.35	128.75	112.70
2	D	2798	MET	CB-CG-SD	5.34	128.72	112.70

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	4640	PHE	Peptide
2	B	4640	PHE	Peptide
2	C	4640	PHE	Peptide
2	D	4640	PHE	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	E	818	0	821	21	0
1	F	818	0	821	22	0
1	G	818	0	821	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	818	0	821	18	0
2	A	33769	0	33450	938	0
2	B	33769	0	33450	922	0
2	C	33769	0	33450	925	0
2	D	33769	0	33450	927	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	62	0	24	3	0
4	B	62	0	24	3	0
4	C	62	0	24	3	0
4	D	62	0	24	3	0
5	A	23	0	0	2	0
5	B	23	0	0	2	0
5	C	23	0	0	2	0
5	D	23	0	0	2	0
All	All	138692	0	137180	3736	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 14.

All (3736) 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)
2:B:1031:ARG:HH21	2:B:1038:LEU:HD11	1.24	1.02
2:A:1031:ARG:HH21	2:A:1038:LEU:HD11	1.24	1.02
2:D:1031:ARG:HH21	2:D:1038:LEU:HD11	1.24	1.00
2:C:1031:ARG:HH21	2:C:1038:LEU:HD11	1.24	1.00
2:C:894:VAL:HG21	2:C:972:LEU:HD22	1.48	0.95
2:D:894:VAL:HG21	2:D:972:LEU:HD22	1.48	0.95
2:B:894:VAL:HG21	2:B:972:LEU:HD22	1.48	0.95
2:A:894:VAL:HG21	2:A:972:LEU:HD22	1.48	0.93
2:B:1968:PRO:HA	2:B:3605:MET:HE1	1.51	0.92
2:C:1968:PRO:HA	2:C:3605:MET:HE1	1.51	0.92
2:D:1968:PRO:HA	2:D:3605:MET:HE1	1.51	0.91
2:A:1968:PRO:HA	2:A:3605:MET:HE1	1.51	0.90
2:A:4834:PRO:HB3	2:A:4843:ARG:HD3	1.57	0.87
2:D:4834:PRO:HB3	2:D:4843:ARG:HD3	1.57	0.86
2:B:4834:PRO:HB3	2:B:4843:ARG:HD3	1.57	0.85
2:B:1031:ARG:HH22	2:B:1042:THR:HG21	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1031:ARG:HH22	2:C:1042:THR:HG21	1.42	0.84
2:C:4834:PRO:HB3	2:C:4843:ARG:HD3	1.57	0.84
2:A:999:LEU:HB3	2:A:1050:LEU:HD21	1.60	0.84
2:A:1031:ARG:HH22	2:A:1042:THR:HG21	1.42	0.84
2:B:999:LEU:HB3	2:B:1050:LEU:HD21	1.60	0.83
2:D:999:LEU:HB3	2:D:1050:LEU:HD21	1.60	0.83
2:C:2833:LEU:HB2	2:C:2894:LYS:HZ1	1.44	0.83
2:C:999:LEU:HB3	2:C:1050:LEU:HD21	1.60	0.83
2:A:1689:ILE:HA	2:A:1703:TYR:HE1	1.44	0.82
2:B:2353:ILE:HG12	2:B:2359:ARG:HE	1.45	0.82
2:D:2353:ILE:HG12	2:D:2359:ARG:HE	1.45	0.82
2:C:1689:ILE:HA	2:C:1703:TYR:HE1	1.43	0.81
2:C:2353:ILE:HG12	2:C:2359:ARG:HE	1.45	0.81
2:D:1031:ARG:HH22	2:D:1042:THR:HG21	1.42	0.81
2:D:2833:LEU:HB2	2:D:2894:LYS:HZ1	1.46	0.81
2:B:1689:ILE:HA	2:B:1703:TYR:HE1	1.43	0.81
2:B:3227:ARG:HG2	2:B:3290:ILE:HD12	1.62	0.81
2:A:2353:ILE:HG12	2:A:2359:ARG:HE	1.45	0.81
2:D:3227:ARG:HG2	2:D:3290:ILE:HD12	1.62	0.80
2:D:1689:ILE:HA	2:D:1703:TYR:HE1	1.43	0.80
2:C:2711:ILE:O	2:C:2780:LYS:NZ	2.15	0.80
2:A:3227:ARG:HG2	2:A:3290:ILE:HD12	1.62	0.80
2:D:2711:ILE:O	2:D:2780:LYS:NZ	2.15	0.80
2:B:2833:LEU:HB2	2:B:2894:LYS:HZ1	1.47	0.80
2:B:4640:PHE:CD2	2:B:4641:PRO:HD3	2.17	0.79
2:A:4640:PHE:CD2	2:A:4641:PRO:HD3	2.17	0.79
2:C:4640:PHE:CD2	2:C:4641:PRO:HD3	2.17	0.79
2:D:4640:PHE:CD2	2:D:4641:PRO:HD3	2.17	0.79
2:A:988:LEU:HB2	2:A:1055:ARG:HE	1.48	0.79
2:D:988:LEU:HB2	2:D:1055:ARG:HE	1.48	0.79
2:B:988:LEU:HB2	2:B:1055:ARG:HE	1.48	0.79
2:C:3227:ARG:HG2	2:C:3290:ILE:HD12	1.62	0.79
2:B:2711:ILE:O	2:B:2780:LYS:NZ	2.15	0.79
2:A:1689:ILE:HD11	2:A:1706:LEU:HD13	1.65	0.78
2:B:1689:ILE:HD11	2:B:1706:LEU:HD13	1.65	0.78
2:A:2711:ILE:O	2:A:2780:LYS:NZ	2.15	0.78
2:A:4831:ILE:HG13	2:A:4843:ARG:HH21	1.48	0.78
2:A:1415:ASP:OD2	2:A:1559:ARG:NH2	2.17	0.78
2:D:1031:ARG:NH2	2:D:1038:LEU:HD11	1.99	0.78
2:B:4831:ILE:HG13	2:B:4843:ARG:HH21	1.48	0.78
2:D:4831:ILE:HG13	2:D:4843:ARG:HH21	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1415:ASP:OD2	2:D:1559:ARG:NH2	2.17	0.77
2:C:1031:ARG:NH2	2:C:1038:LEU:HD11	1.99	0.77
2:D:1689:ILE:HD11	2:D:1706:LEU:HD13	1.65	0.77
2:C:1689:ILE:HD11	2:C:1706:LEU:HD13	1.65	0.77
2:C:4884:MET:HE1	2:C:4889:PHE:HB2	1.67	0.77
2:C:1415:ASP:OD2	2:C:1559:ARG:NH2	2.17	0.77
2:D:4884:MET:HE1	2:D:4889:PHE:HB2	1.67	0.77
2:C:4831:ILE:HG13	2:C:4843:ARG:HH21	1.49	0.77
2:B:4884:MET:HE1	2:B:4889:PHE:HB2	1.67	0.76
2:B:1031:ARG:NH2	2:B:1038:LEU:HD11	1.99	0.76
2:C:988:LEU:HB2	2:C:1055:ARG:HE	1.48	0.76
2:B:1415:ASP:OD2	2:B:1559:ARG:NH2	2.17	0.76
2:B:3001:LYS:HZ3	2:B:3044:THR:H	1.32	0.76
2:B:943:LEU:HA	2:B:946:LEU:HD12	1.68	0.76
2:A:4884:MET:HE1	2:A:4889:PHE:HB2	1.67	0.75
2:A:943:LEU:HA	2:A:946:LEU:HD12	1.68	0.75
2:A:866:PRO:HG2	2:A:1009:ARG:HD3	1.68	0.75
2:C:3689:MET:HA	2:C:3689:MET:HE3	1.68	0.75
2:D:866:PRO:HG2	2:D:1009:ARG:HD3	1.68	0.75
2:B:902:TRP:HB3	2:B:918:LEU:HD21	1.69	0.75
2:C:902:TRP:HB3	2:C:918:LEU:HD21	1.69	0.75
2:C:3001:LYS:HZ3	2:C:3044:THR:H	1.32	0.75
2:D:3803:LEU:HB2	2:D:3884:SER:HB3	1.69	0.75
2:A:1031:ARG:NH2	2:A:1038:LEU:HD11	1.99	0.74
2:A:3803:LEU:HB2	2:A:3884:SER:HB3	1.69	0.74
2:B:3945:VAL:HG23	2:B:4006:SER:HB3	1.70	0.74
2:C:2833:LEU:O	2:C:2835:ARG:NH2	2.20	0.74
2:D:3689:MET:HE3	2:D:3689:MET:HA	1.68	0.74
2:B:3689:MET:HA	2:B:3689:MET:HE3	1.68	0.74
2:C:866:PRO:HG2	2:C:1009:ARG:HD3	1.68	0.74
2:B:2833:LEU:O	2:B:2835:ARG:NH2	2.20	0.74
2:D:3945:VAL:HG23	2:D:4006:SER:HB3	1.70	0.74
2:A:2833:LEU:O	2:A:2835:ARG:NH2	2.20	0.74
2:B:3803:LEU:HB2	2:B:3884:SER:HB3	1.69	0.74
2:D:943:LEU:HA	2:D:946:LEU:HD12	1.68	0.74
2:A:3689:MET:HA	2:A:3689:MET:HE3	1.68	0.73
2:C:1628:MET:HE3	2:C:1641:ILE:HG21	1.70	0.73
2:A:1628:MET:HE3	2:A:1641:ILE:HG21	1.70	0.73
2:B:866:PRO:HG2	2:B:1009:ARG:HD3	1.68	0.73
2:C:943:LEU:HA	2:C:946:LEU:HD12	1.68	0.73
2:A:902:TRP:HB3	2:A:918:LEU:HD21	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:902:TRP:HB3	2:D:918:LEU:HD21	1.69	0.73
2:B:1628:MET:HE3	2:B:1641:ILE:HG21	1.70	0.73
2:C:3803:LEU:HB2	2:C:3884:SER:HB3	1.69	0.73
2:D:2833:LEU:O	2:D:2835:ARG:NH2	2.20	0.73
2:B:4650:LYS:HG2	2:B:4670:LEU:HD22	1.71	0.73
2:A:3945:VAL:HG23	2:A:4006:SER:HB3	1.70	0.72
2:A:2833:LEU:HB2	2:A:2894:LYS:HZ1	1.53	0.72
2:B:2241:ASP:OD1	2:B:2297:ARG:NH2	2.22	0.72
2:D:1628:MET:HE3	2:D:1641:ILE:HG21	1.71	0.72
2:A:4650:LYS:HG2	2:A:4670:LEU:HD22	1.71	0.72
2:C:3945:VAL:HG23	2:C:4006:SER:HB3	1.70	0.72
2:C:2241:ASP:OD1	2:C:2297:ARG:NH2	2.23	0.71
1:H:19:LYS:NZ	1:H:52:GLY:HA3	2.05	0.71
2:B:2627:TRP:HB2	2:B:2630:PHE:HB2	1.72	0.71
2:B:3250:TRP:O	2:B:3256:ASN:ND2	2.21	0.71
2:C:4650:LYS:HG2	2:C:4670:LEU:HD22	1.71	0.71
2:C:4633:LEU:O	2:C:4704:LYS:NZ	2.24	0.71
2:D:4650:LYS:HG2	2:D:4670:LEU:HD22	1.71	0.71
1:G:19:LYS:NZ	1:G:52:GLY:HA3	2.05	0.71
2:A:2241:ASP:OD1	2:A:2297:ARG:NH2	2.22	0.71
2:A:3260:ARG:NH1	2:A:3264:CYS:HA	2.06	0.71
1:F:19:LYS:NZ	1:F:52:GLY:HA3	2.05	0.71
2:D:114:LEU:HB2	2:D:117:HIS:CE1	2.26	0.71
2:B:4633:LEU:O	2:B:4704:LYS:NZ	2.24	0.71
2:D:2241:ASP:OD1	2:D:2297:ARG:NH2	2.23	0.71
1:E:19:LYS:NZ	1:E:52:GLY:HA3	2.05	0.71
2:A:114:LEU:HB2	2:A:117:HIS:CE1	2.26	0.71
2:B:114:LEU:HB2	2:B:117:HIS:CE1	2.26	0.71
2:C:114:LEU:HB2	2:C:117:HIS:CE1	2.26	0.71
2:C:3172:GLU:HG3	2:C:3266:THR:HA	1.73	0.71
2:D:2635:GLU:OE2	2:D:2680:TYR:OH	2.08	0.70
2:A:2798:MET:HE1	2:B:1496:PRO:O	1.90	0.70
2:A:1438:PRO:HG3	2:A:1500:ARG:HG2	1.72	0.70
2:A:2627:TRP:HB2	2:A:2630:PHE:HB2	1.72	0.70
2:A:2635:GLU:OE2	2:A:2680:TYR:OH	2.08	0.70
2:A:4633:LEU:O	2:A:4704:LYS:NZ	2.24	0.70
2:B:2964:ALA:HA	2:B:2968:LEU:HD12	1.74	0.70
2:B:3260:ARG:NH1	2:B:3264:CYS:HA	2.06	0.70
2:D:3260:ARG:NH1	2:D:3264:CYS:HA	2.06	0.70
2:A:2964:ALA:HA	2:A:2968:LEU:HD12	1.74	0.70
2:A:3152:ARG:NH1	2:A:3236:GLU:OE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1438:PRO:HG3	2:B:1500:ARG:HG2	1.72	0.70
2:A:3172:GLU:HG3	2:A:3266:THR:HA	1.73	0.70
2:C:2627:TRP:HB2	2:C:2630:PHE:HB2	1.72	0.70
2:A:3250:TRP:O	2:A:3256:ASN:ND2	2.21	0.70
2:C:1438:PRO:HG3	2:C:1500:ARG:HG2	1.72	0.70
2:D:1438:PRO:HG3	2:D:1500:ARG:HG2	1.72	0.70
2:D:4633:LEU:O	2:D:4704:LYS:NZ	2.24	0.70
2:B:3152:ARG:NH1	2:B:3236:GLU:OE2	2.25	0.70
2:C:3152:ARG:NH1	2:C:3236:GLU:OE2	2.25	0.70
2:D:1129:GLY:HA3	2:D:1145:TRP:HB3	1.74	0.70
2:B:1014:GLN:HB3	2:B:1027:ARG:HH21	1.57	0.69
2:C:2964:ALA:HA	2:C:2968:LEU:HD12	1.74	0.69
2:C:1129:GLY:HA3	2:C:1145:TRP:HB3	1.74	0.69
2:B:1129:GLY:HA3	2:B:1145:TRP:HB3	1.74	0.69
2:C:1014:GLN:HB3	2:C:1027:ARG:HH21	1.57	0.69
2:C:2831:VAL:HB	2:C:2894:LYS:HD3	1.73	0.69
2:C:3260:ARG:NH1	2:C:3264:CYS:HA	2.06	0.69
2:D:3152:ARG:NH1	2:D:3236:GLU:OE2	2.25	0.69
2:D:3172:GLU:HG3	2:D:3266:THR:HA	1.73	0.69
2:A:1129:GLY:HA3	2:A:1145:TRP:HB3	1.74	0.69
2:B:2831:VAL:HB	2:B:2894:LYS:HD3	1.73	0.69
2:D:2831:VAL:HB	2:D:2894:LYS:HD3	1.73	0.69
2:D:2964:ALA:HA	2:D:2968:LEU:HD12	1.74	0.69
2:B:3172:GLU:HG3	2:B:3266:THR:HA	1.73	0.69
2:A:2831:VAL:HB	2:A:2894:LYS:HD3	1.73	0.68
2:D:2627:TRP:HB2	2:D:2630:PHE:HB2	1.72	0.68
2:B:4690:LYS:NZ	2:B:4692:SER:OG	2.19	0.68
2:D:1014:GLN:HB3	2:D:1027:ARG:HH21	1.57	0.68
2:A:962:LYS:NZ	2:A:964:MET:SD	2.67	0.68
2:D:3250:TRP:O	2:D:3256:ASN:ND2	2.21	0.68
2:A:1100:ARG:NH1	2:A:1234:GLU:O	2.26	0.68
1:G:22:THR:N	1:G:108:GLU:O	2.27	0.68
2:A:1014:GLN:HB3	2:A:1027:ARG:HH21	1.57	0.68
2:D:962:LYS:NZ	2:D:964:MET:SD	2.67	0.68
2:B:908:ARG:HD2	2:B:916:PRO:HD2	1.76	0.68
2:B:2635:GLU:OE2	2:B:2680:TYR:OH	2.08	0.68
2:D:2694:SER:O	2:D:2702:ASN:N	2.26	0.68
2:C:2635:GLU:OE2	2:C:2680:TYR:OH	2.08	0.68
2:A:908:ARG:HD2	2:A:916:PRO:HD2	1.76	0.68
2:B:2599:LEU:HD12	2:B:2661:LEU:HD21	1.76	0.68
2:C:2599:LEU:HD12	2:C:2661:LEU:HD21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2424:ARG:HG2	2:D:2476:TYR:HE1	1.59	0.68
2:C:2424:ARG:HG2	2:C:2476:TYR:HE1	1.59	0.67
2:C:2155:PHE:HA	2:C:2162:MET:HE3	1.77	0.67
2:C:3227:ARG:HD3	2:C:3229:THR:H	1.60	0.67
2:A:2424:ARG:HG2	2:A:2476:TYR:HE1	1.59	0.67
2:D:908:ARG:HD2	2:D:916:PRO:HD2	1.76	0.67
2:B:2830:ASN:ND2	2:C:1549:SER:HB2	2.09	0.67
2:C:908:ARG:HD2	2:C:916:PRO:HD2	1.76	0.67
1:E:24:VAL:HG22	1:E:48:LYS:HG2	1.77	0.67
2:A:2599:LEU:HD12	2:A:2661:LEU:HD21	1.76	0.67
2:B:2424:ARG:HG2	2:B:2476:TYR:HE1	1.59	0.67
2:A:3968:LEU:HG	2:A:3972:MET:HE2	1.77	0.67
2:C:962:LYS:NZ	2:C:964:MET:SD	2.67	0.67
2:D:2599:LEU:HD12	2:D:2661:LEU:HD21	1.76	0.67
2:C:3284:ILE:HD12	2:C:3287:ASN:HD22	1.59	0.67
1:F:24:VAL:HG22	1:F:48:LYS:HG2	1.77	0.67
2:B:962:LYS:NZ	2:B:964:MET:SD	2.67	0.67
2:B:1100:ARG:NH1	2:B:1234:GLU:O	2.26	0.67
2:B:3968:LEU:HG	2:B:3972:MET:HE2	1.77	0.67
2:D:2155:PHE:HA	2:D:2162:MET:HE3	1.77	0.67
1:E:22:THR:N	1:E:108:GLU:O	2.27	0.66
2:A:2155:PHE:HA	2:A:2162:MET:HE3	1.77	0.66
2:B:2694:SER:O	2:B:2702:ASN:N	2.26	0.66
2:D:3227:ARG:HD3	2:D:3229:THR:H	1.60	0.66
1:H:24:VAL:HG22	1:H:48:LYS:HG2	1.77	0.66
2:A:2427:ILE:O	2:A:2476:TYR:OH	2.14	0.66
2:A:3284:ILE:HD12	2:A:3287:ASN:HD22	1.59	0.66
2:B:1286:THR:OG1	2:B:1550:PRO:O	2.13	0.66
2:C:3250:TRP:O	2:C:3256:ASN:ND2	2.21	0.66
2:D:3284:ILE:HD12	2:D:3287:ASN:HD22	1.59	0.66
1:H:22:THR:N	1:H:108:GLU:O	2.27	0.66
1:G:24:VAL:HG22	1:G:48:LYS:HG2	1.77	0.66
2:B:3284:ILE:HD12	2:B:3287:ASN:HD22	1.59	0.66
2:C:2830:ASN:ND2	2:D:1549:SER:HB2	2.10	0.66
2:B:924:LEU:HD12	2:B:925:PRO:HD2	1.77	0.66
2:D:4047:ASP:HA	2:D:4050:LYS:HE3	1.77	0.66
2:A:2139:GLU:HG3	2:A:2192:MET:HB3	1.78	0.66
2:A:2694:SER:O	2:A:2702:ASN:N	2.26	0.66
2:A:3227:ARG:HD3	2:A:3229:THR:H	1.60	0.66
2:B:932:ASN:HA	2:B:935:MET:HE3	1.78	0.66
2:C:3968:LEU:HG	2:C:3972:MET:HE2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1100:ARG:NH1	2:D:1234:GLU:O	2.26	0.66
2:D:2139:GLU:HG3	2:D:2192:MET:HB3	1.78	0.66
2:D:4661:TYR:HB3	2:D:4665:ARG:HH21	1.60	0.66
1:F:22:THR:N	1:F:108:GLU:O	2.27	0.66
2:C:4661:TYR:HB3	2:C:4665:ARG:HH21	1.60	0.66
2:A:1286:THR:OG1	2:A:1550:PRO:O	2.13	0.66
2:B:1017:THR:O	2:B:1028:ARG:HA	1.96	0.66
1:E:16:PHE:O	1:E:18:LYS:NZ	2.29	0.65
1:G:16:PHE:O	1:G:18:LYS:NZ	2.29	0.65
2:A:932:ASN:HA	2:A:935:MET:HE3	1.78	0.65
2:B:2139:GLU:HG3	2:B:2192:MET:HB3	1.78	0.65
2:B:2427:ILE:O	2:B:2476:TYR:OH	2.14	0.65
2:C:2427:ILE:O	2:C:2476:TYR:OH	2.14	0.65
2:D:2427:ILE:O	2:D:2476:TYR:OH	2.14	0.65
1:G:79:PRO:HD3	1:G:97:THR:HG22	1.79	0.65
2:A:1017:THR:O	2:A:1028:ARG:HA	1.96	0.65
2:A:2179:LEU:O	2:A:2183:GLU:HB2	1.97	0.65
2:B:2179:LEU:O	2:B:2183:GLU:HB2	1.97	0.65
2:C:924:LEU:HD12	2:C:925:PRO:HD2	1.77	0.65
1:H:16:PHE:O	1:H:18:LYS:NZ	2.29	0.65
1:H:79:PRO:HD3	1:H:97:THR:HG22	1.79	0.65
2:B:4661:TYR:HB3	2:B:4665:ARG:HH21	1.60	0.65
2:C:1100:ARG:NH1	2:C:1234:GLU:O	2.26	0.65
2:A:769:ARG:HG2	2:A:774:PRO:HA	1.78	0.65
2:A:2436:ILE:HG22	2:A:2491:GLY:HA3	1.78	0.65
2:B:769:ARG:HG2	2:B:774:PRO:HA	1.78	0.65
2:B:3227:ARG:HD3	2:B:3229:THR:H	1.60	0.65
2:C:3325:LYS:HG3	2:C:3328:LYS:HZ2	1.62	0.65
2:D:924:LEU:HD12	2:D:925:PRO:HD2	1.77	0.65
2:D:3968:LEU:HG	2:D:3972:MET:HE2	1.77	0.65
2:A:4661:TYR:HB3	2:A:4665:ARG:HH21	1.60	0.65
2:B:4047:ASP:HA	2:B:4050:LYS:HE3	1.77	0.65
2:B:2943:PHE:O	2:B:2947:SER:N	2.29	0.65
2:C:1017:THR:O	2:C:1028:ARG:HA	1.96	0.65
1:E:79:PRO:HD3	1:E:97:THR:HG22	1.79	0.65
2:B:912:LYS:NZ	2:B:914:GLN:O	2.26	0.65
2:C:2139:GLU:HG3	2:C:2192:MET:HB3	1.78	0.65
2:C:2943:PHE:O	2:C:2947:SER:N	2.30	0.65
2:C:4047:ASP:HA	2:C:4050:LYS:HE3	1.77	0.65
2:D:1017:THR:O	2:D:1028:ARG:HA	1.96	0.65
1:F:16:PHE:O	1:F:18:LYS:NZ	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:963:LYS:HD2	2:A:980:PRO:HA	1.79	0.65
2:C:2157:GLN:O	2:C:3615:ARG:NH2	2.30	0.65
2:C:2436:ILE:HG22	2:C:2491:GLY:HA3	1.78	0.65
2:D:1286:THR:OG1	2:D:1550:PRO:O	2.13	0.65
2:A:2943:PHE:O	2:A:2947:SER:N	2.30	0.65
2:C:1431:ARG:NH1	2:C:1506:GLU:OE2	2.30	0.65
2:C:2694:SER:O	2:C:2702:ASN:N	2.26	0.65
2:C:2773:TRP:HB3	2:C:2774:PRO:HD3	1.79	0.65
2:B:2773:TRP:HB3	2:B:2774:PRO:HD3	1.79	0.65
2:D:2502:LEU:HG	2:D:2512:MET:HE1	1.79	0.65
1:F:79:PRO:HD3	1:F:97:THR:HG22	1.79	0.64
2:A:4047:ASP:HA	2:A:4050:LYS:HE3	1.78	0.64
2:B:2155:PHE:HA	2:B:2162:MET:HE3	1.77	0.64
2:B:2157:GLN:O	2:B:3615:ARG:NH2	2.30	0.64
2:A:924:LEU:HD12	2:A:925:PRO:HD2	1.77	0.64
2:A:2502:LEU:HG	2:A:2512:MET:HE1	1.79	0.64
2:D:2157:GLN:O	2:D:3615:ARG:NH2	2.30	0.64
2:D:2436:ILE:HG22	2:D:2491:GLY:HA3	1.78	0.64
2:A:1549:SER:HB2	2:D:2830:ASN:ND2	2.13	0.64
2:B:2436:ILE:HG22	2:B:2491:GLY:HA3	1.78	0.64
2:D:932:ASN:HA	2:D:935:MET:HE3	1.78	0.64
2:D:2455:ASP:OD2	2:D:2457:SER:OG	2.15	0.64
2:A:2157:GLN:O	2:A:3615:ARG:NH2	2.30	0.64
2:C:963:LYS:HD2	2:C:980:PRO:HA	1.79	0.64
2:D:1431:ARG:NH1	2:D:1506:GLU:OE2	2.30	0.64
2:D:2179:LEU:O	2:D:2183:GLU:HB2	1.97	0.64
2:B:963:LYS:HD2	2:B:980:PRO:HA	1.79	0.64
2:C:769:ARG:HG2	2:C:774:PRO:HA	1.78	0.64
1:H:41:ARG:NH2	1:H:103:GLU:OE1	2.31	0.64
2:B:1431:ARG:NH1	2:B:1506:GLU:OE2	2.30	0.64
2:B:3325:LYS:HG3	2:B:3328:LYS:HZ2	1.62	0.64
2:C:2502:LEU:HG	2:C:2512:MET:HE1	1.79	0.64
1:E:41:ARG:NH2	1:E:103:GLU:OE1	2.31	0.64
2:C:2179:LEU:O	2:C:2183:GLU:HB2	1.96	0.64
2:D:4690:LYS:NZ	2:D:4692:SER:OG	2.19	0.64
2:A:891:GLU:HB3	2:A:978:PRO:HB3	1.80	0.64
2:A:1685:LEU:HB3	2:A:1706:LEU:HD12	1.80	0.64
2:C:1029:ASN:ND2	2:C:1031:ARG:HB2	2.13	0.64
2:C:2642:ARG:HH12	2:C:2921:PHE:HA	1.62	0.64
2:D:194:LEU:HD11	2:D:201:LEU:HB3	1.80	0.64
2:A:1431:ARG:NH1	2:A:1506:GLU:OE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3044:THR:HA	2:A:3047:LYS:HG2	1.80	0.64
2:A:4056:LYS:NZ	2:B:4660:PHE:O	2.31	0.64
2:C:520:ARG:NH1	2:C:521:GLU:HB3	2.13	0.64
2:D:1029:ASN:ND2	2:D:1031:ARG:HB2	2.13	0.64
2:A:1029:ASN:ND2	2:A:1031:ARG:HB2	2.13	0.63
2:C:932:ASN:HA	2:C:935:MET:HE3	1.78	0.63
2:D:891:GLU:HB3	2:D:978:PRO:HB3	1.80	0.63
2:D:924:LEU:HD23	2:D:929:ARG:HB2	1.80	0.63
2:A:3201:VAL:HA	2:A:3204:VAL:HG12	1.80	0.63
2:B:924:LEU:HD23	2:B:929:ARG:HB2	1.79	0.63
2:B:1167:ASP:OD1	2:B:1169:ASN:ND2	2.30	0.63
2:C:3044:THR:HA	2:C:3047:LYS:HG2	1.80	0.63
2:D:520:ARG:NH1	2:D:521:GLU:HB3	2.13	0.63
2:D:769:ARG:HG2	2:D:774:PRO:HA	1.78	0.63
2:D:2642:ARG:HH12	2:D:2921:PHE:HA	1.62	0.63
2:D:3044:THR:HA	2:D:3047:LYS:HG2	1.80	0.63
2:C:320:GLU:OE1	2:C:320:GLU:N	2.31	0.63
2:C:1522:ALA:HB3	2:C:1527:LEU:HD21	1.81	0.63
2:D:879:GLU:O	2:D:882:ARG:NH1	2.32	0.63
2:D:963:LYS:HD2	2:D:980:PRO:HA	1.79	0.63
2:D:2896:LEU:HD12	2:D:2901:TYR:HB2	1.81	0.63
2:A:320:GLU:OE1	2:A:320:GLU:N	2.31	0.63
2:A:3605:MET:HG2	2:A:3606:ALA:H	1.63	0.63
2:B:2502:LEU:HG	2:B:2512:MET:HE1	1.79	0.63
2:D:912:LYS:NZ	2:D:914:GLN:O	2.26	0.63
2:D:2773:TRP:HB3	2:D:2774:PRO:HD3	1.79	0.63
2:A:194:LEU:HD11	2:A:201:LEU:HB3	1.80	0.63
2:B:520:ARG:NH1	2:B:521:GLU:HB3	2.13	0.63
2:B:1029:ASN:ND2	2:B:1031:ARG:HB2	2.13	0.63
2:B:1685:LEU:HB3	2:B:1706:LEU:HD12	1.80	0.63
2:B:2642:ARG:HH12	2:B:2921:PHE:HA	1.63	0.63
2:B:2896:LEU:HD12	2:B:2901:TYR:HB2	1.81	0.63
2:B:3201:VAL:HA	2:B:3204:VAL:HG12	1.80	0.63
2:C:4045:LYS:HD3	2:C:4072:THR:HB	1.80	0.63
2:C:4690:LYS:NZ	2:C:4692:SER:OG	2.19	0.63
1:F:41:ARG:NH2	1:F:103:GLU:OE1	2.31	0.63
2:A:879:GLU:O	2:A:882:ARG:NH1	2.32	0.63
2:A:2773:TRP:HB3	2:A:2774:PRO:HD3	1.80	0.63
2:A:3242:LEU:O	2:A:3246:MET:HG2	1.99	0.63
2:C:2134:MET:HA	2:C:2134:MET:HE3	1.81	0.63
2:D:3242:LEU:O	2:D:3246:MET:HG2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1167:ASP:OD1	2:A:1169:ASN:ND2	2.30	0.63
2:A:2896:LEU:HD12	2:A:2901:TYR:HB2	1.81	0.63
2:B:891:GLU:HB3	2:B:978:PRO:HB3	1.80	0.63
2:B:2134:MET:HE3	2:B:2134:MET:HA	1.81	0.63
2:B:4045:LYS:HD3	2:B:4072:THR:HB	1.80	0.63
2:D:3325:LYS:HG3	2:D:3328:LYS:HZ2	1.64	0.63
1:G:41:ARG:NH2	1:G:103:GLU:OE1	2.31	0.63
2:B:1522:ALA:HB3	2:B:1527:LEU:HD21	1.81	0.63
2:A:2134:MET:HA	2:A:2134:MET:HE3	1.81	0.63
2:C:924:LEU:HD23	2:C:929:ARG:HB2	1.79	0.63
2:C:2896:LEU:HD12	2:C:2901:TYR:HB2	1.81	0.63
2:C:3201:VAL:HA	2:C:3204:VAL:HG12	1.80	0.63
2:D:2943:PHE:O	2:D:2947:SER:N	2.29	0.63
2:D:4045:LYS:HD3	2:D:4072:THR:HB	1.80	0.63
2:A:2570:GLU:HG2	2:A:2605:MET:HG2	1.81	0.62
2:A:3040:LEU:O	2:A:3111:HIS:NE2	2.33	0.62
2:C:3242:LEU:O	2:C:3246:MET:HG2	1.98	0.62
2:D:694:ARG:NH1	2:D:718:VAL:O	2.32	0.62
2:A:2642:ARG:HH12	2:A:2921:PHE:HA	1.63	0.62
2:C:2455:ASP:OD2	2:C:2457:SER:OG	2.15	0.62
2:C:2570:GLU:HG2	2:C:2605:MET:HG2	1.81	0.62
2:D:1980:LYS:O	2:D:1983:LYS:NZ	2.33	0.62
2:A:2232:PRO:HD2	2:A:2379:ASP:HA	1.82	0.62
2:A:2980:LEU:HG	2:A:2990:LEU:HD23	1.81	0.62
2:A:4187:GLU:OE2	2:A:4947:ARG:NH2	2.33	0.62
2:B:965:LYS:HA	2:B:977:LYS:HG3	1.82	0.62
2:B:2767:GLU:HA	2:B:2770:ILE:HG12	1.81	0.62
2:B:3040:LEU:O	2:B:3111:HIS:NE2	2.32	0.62
2:D:905:GLY:HA3	2:D:914:GLN:HB3	1.81	0.62
2:D:2232:PRO:HD2	2:D:2379:ASP:HA	1.82	0.62
2:A:1980:LYS:O	2:A:1983:LYS:NZ	2.32	0.62
2:B:3044:THR:HA	2:B:3047:LYS:HG2	1.80	0.62
2:B:3261:ALA:C	2:B:3263:MET:H	2.08	0.62
2:C:194:LEU:HD11	2:C:201:LEU:HB3	1.80	0.62
2:C:1167:ASP:OD1	2:C:1169:ASN:ND2	2.30	0.62
4:C:5003:ATP:H5'2	5:C:5004:KVR:C17	2.29	0.62
2:D:1522:ALA:HB3	2:D:1527:LEU:HD21	1.81	0.62
2:A:520:ARG:NH1	2:A:521:GLU:HB3	2.13	0.62
2:A:4044:SER:HA	2:A:4077:THR:HA	1.80	0.62
2:B:320:GLU:OE1	2:B:320:GLU:N	2.31	0.62
2:B:555:LEU:HD21	2:B:578:VAL:HG11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3242:LEU:O	2:B:3246:MET:HG2	1.98	0.62
2:C:3040:LEU:O	2:C:3111:HIS:NE2	2.33	0.62
2:D:320:GLU:OE1	2:D:320:GLU:N	2.31	0.62
2:D:2980:LEU:HG	2:D:2990:LEU:HD23	1.81	0.62
2:B:2980:LEU:HG	2:B:2990:LEU:HD23	1.81	0.62
2:B:3605:MET:HG2	2:B:3606:ALA:H	1.63	0.62
2:B:4027:THR:HG21	2:B:4084:VAL:HG11	1.82	0.62
2:B:4187:GLU:OE2	2:B:4947:ARG:NH2	2.33	0.62
2:D:1167:ASP:OD1	2:D:1169:ASN:ND2	2.30	0.62
2:D:3201:VAL:HA	2:D:3204:VAL:HG12	1.80	0.62
2:A:3221:LEU:HD11	2:A:3234:VAL:HG21	1.82	0.62
4:A:5003:ATP:H5'2	5:A:5004:KVR:C17	2.29	0.62
2:B:1980:LYS:O	2:B:1983:LYS:NZ	2.33	0.62
2:C:694:ARG:NH1	2:C:718:VAL:O	2.32	0.62
2:C:4044:SER:HA	2:C:4077:THR:HA	1.80	0.62
4:D:5003:ATP:H5'2	5:D:5004:KVR:C17	2.29	0.62
2:A:555:LEU:HD21	2:A:578:VAL:HG11	1.81	0.62
2:A:4027:THR:HG21	2:A:4084:VAL:HG11	1.82	0.62
2:B:274:LEU:HD11	2:B:412:GLU:HG2	1.82	0.62
2:B:3269:ASN:HD21	2:B:3271:GLU:HB3	1.65	0.62
2:C:1685:LEU:O	2:C:1689:ILE:HG12	2.00	0.62
2:C:2767:GLU:HA	2:C:2770:ILE:HG12	1.81	0.62
2:D:2134:MET:HA	2:D:2134:MET:HE3	1.81	0.62
2:D:2570:GLU:HG2	2:D:2605:MET:HG2	1.81	0.62
2:A:965:LYS:HA	2:A:977:LYS:HG3	1.82	0.62
2:A:2455:ASP:OD2	2:A:2457:SER:OG	2.15	0.62
2:A:3141:GLY:O	2:A:3152:ARG:NH1	2.33	0.62
2:A:3269:ASN:HD21	2:A:3271:GLU:HB3	1.65	0.62
2:B:194:LEU:HD11	2:B:201:LEU:HB3	1.80	0.62
2:B:1685:LEU:O	2:B:1689:ILE:HG12	2.00	0.62
2:B:3141:GLY:O	2:B:3152:ARG:NH1	2.33	0.62
2:C:1685:LEU:HB3	2:C:1706:LEU:HD12	1.80	0.62
2:C:1980:LYS:O	2:C:1983:LYS:NZ	2.32	0.62
2:D:274:LEU:HD11	2:D:412:GLU:HG2	1.82	0.62
2:D:555:LEU:HD21	2:D:578:VAL:HG11	1.81	0.62
2:D:2868:HIS:HB3	2:D:2871:LEU:HG	1.82	0.62
2:D:3261:ALA:C	2:D:3263:MET:H	2.08	0.62
2:D:3605:MET:HG2	2:D:3606:ALA:H	1.63	0.62
2:D:4187:GLU:OE2	2:D:4947:ARG:NH2	2.33	0.62
2:A:924:LEU:HD23	2:A:929:ARG:HB2	1.80	0.62
2:A:1522:ALA:HB3	2:A:1527:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2793:ARG:NH2	2:A:2796:ASP:OD2	2.33	0.62
2:C:965:LYS:HA	2:C:977:LYS:HG3	1.82	0.62
2:C:4187:GLU:OE2	2:C:4947:ARG:NH2	2.33	0.62
2:D:1685:LEU:O	2:D:1689:ILE:HG12	2.00	0.62
2:A:274:LEU:HD11	2:A:412:GLU:HG2	1.82	0.61
2:A:921:PHE:HB2	2:A:929:ARG:HD3	1.82	0.61
2:A:1685:LEU:O	2:A:1689:ILE:HG12	2.00	0.61
2:A:3261:ALA:C	2:A:3263:MET:H	2.08	0.61
2:B:2232:PRO:HD2	2:B:2379:ASP:HA	1.82	0.61
2:C:905:GLY:HA3	2:C:914:GLN:HB3	1.81	0.61
2:C:1689:ILE:HA	2:C:1703:TYR:CE1	2.32	0.61
2:D:655:MET:HE2	2:D:1608:VAL:HG11	1.82	0.61
2:B:2793:ARG:NH2	2:B:2796:ASP:OD2	2.33	0.61
2:B:4044:SER:HA	2:B:4077:THR:HA	1.80	0.61
2:C:891:GLU:HB3	2:C:978:PRO:HB3	1.80	0.61
2:C:3221:LEU:HD11	2:C:3234:VAL:HG21	1.81	0.61
2:C:3261:ALA:C	2:C:3263:MET:H	2.08	0.61
2:D:2767:GLU:HA	2:D:2770:ILE:HG12	1.81	0.61
2:D:4027:THR:HG21	2:D:4084:VAL:HG11	1.82	0.61
2:A:288:HIS:O	2:A:290:ARG:NH1	2.33	0.61
2:A:4045:LYS:HD3	2:A:4072:THR:HB	1.80	0.61
2:B:655:MET:HE2	2:B:1608:VAL:HG11	1.82	0.61
2:B:905:GLY:HA3	2:B:914:GLN:HB3	1.81	0.61
2:C:2232:PRO:HD2	2:C:2379:ASP:HA	1.81	0.61
2:C:2793:ARG:NH2	2:C:2796:ASP:OD2	2.33	0.61
2:A:655:MET:HE2	2:A:1608:VAL:HG11	1.82	0.61
2:A:905:GLY:HA3	2:A:914:GLN:HB3	1.81	0.61
2:B:921:PHE:HB2	2:B:929:ARG:HD3	1.82	0.61
2:C:175:VAL:HG11	2:C:181:LEU:HD21	1.82	0.61
2:C:3269:ASN:HD21	2:C:3271:GLU:HB3	1.65	0.61
2:C:3605:MET:HG2	2:C:3606:ALA:H	1.63	0.61
2:D:4044:SER:HA	2:D:4077:THR:HA	1.80	0.61
2:A:3301:VAL:HA	2:A:3304:GLN:HG2	1.83	0.61
2:B:2570:GLU:HG2	2:B:2605:MET:HG2	1.81	0.61
2:C:1286:THR:OG1	2:C:1550:PRO:O	2.13	0.61
2:C:3141:GLY:O	2:C:3152:ARG:NH1	2.33	0.61
2:D:2176:VAL:HG22	2:D:2220:TYR:CZ	2.35	0.61
2:A:175:VAL:HG11	2:A:181:LEU:HD21	1.82	0.61
2:A:2868:HIS:HB3	2:A:2871:LEU:HG	1.82	0.61
2:C:655:MET:HE2	2:C:1608:VAL:HG11	1.82	0.61
2:D:965:LYS:HA	2:D:977:LYS:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3040:LEU:O	2:D:3111:HIS:NE2	2.33	0.61
4:B:5003:ATP:H5'2	5:B:5004:KVR:C17	2.29	0.61
2:C:555:LEU:HD21	2:C:578:VAL:HG11	1.81	0.61
2:A:4270:LYS:NZ	2:A:4278:ASP:OD1	2.25	0.61
2:A:4822:ARG:HH12	2:B:4829:ASP:N	1.99	0.61
2:B:694:ARG:NH1	2:B:718:VAL:O	2.32	0.61
2:C:912:LYS:NZ	2:C:914:GLN:O	2.26	0.61
2:D:3141:GLY:O	2:D:3152:ARG:NH1	2.33	0.61
2:A:2176:VAL:HG22	2:A:2220:TYR:CZ	2.35	0.61
2:A:2767:GLU:HA	2:A:2770:ILE:HG12	1.81	0.61
2:A:4831:ILE:HG13	2:A:4843:ARG:NH2	2.16	0.61
2:B:3301:VAL:HA	2:B:3304:GLN:HG2	1.83	0.61
2:B:4831:ILE:HG13	2:B:4843:ARG:NH2	2.16	0.61
2:C:274:LEU:HD11	2:C:412:GLU:HG2	1.82	0.61
2:C:879:GLU:O	2:C:882:ARG:NH1	2.32	0.61
2:C:3018:ARG:HG2	2:C:3021:LEU:HD22	1.83	0.61
2:C:4027:THR:HG21	2:C:4084:VAL:HG11	1.82	0.61
2:D:1685:LEU:HB3	2:D:1706:LEU:HD12	1.80	0.61
2:A:1444:GLY:HA3	2:A:1487:MET:HA	1.83	0.61
2:B:175:VAL:HG11	2:B:181:LEU:HD21	1.82	0.61
2:B:1031:ARG:HH22	2:B:1042:THR:CG2	2.13	0.61
2:C:2176:VAL:HG22	2:C:2220:TYR:CZ	2.35	0.61
2:D:801:ARG:NH1	2:D:1615:GLN:O	2.34	0.61
2:B:4056:LYS:NZ	2:C:4660:PHE:O	2.34	0.60
2:C:2724:TYR:OH	2:C:2891:ASP:OD1	2.18	0.60
2:C:2868:HIS:HB3	2:C:2871:LEU:HG	1.82	0.60
2:C:2980:LEU:HG	2:C:2990:LEU:HD23	1.81	0.60
2:D:288:HIS:O	2:D:290:ARG:NH1	2.33	0.60
2:D:3269:ASN:HD21	2:D:3271:GLU:HB3	1.65	0.60
2:A:3325:LYS:HG3	2:A:3328:LYS:HZ2	1.67	0.60
2:B:1444:GLY:HA3	2:B:1487:MET:HA	1.83	0.60
2:B:2176:VAL:HG22	2:B:2220:TYR:CZ	2.35	0.60
2:C:515:ALA:HB2	2:C:523:GLY:HA3	1.84	0.60
2:C:921:PHE:HB2	2:C:929:ARG:HD3	1.82	0.60
2:C:2424:ARG:HG2	2:C:2476:TYR:CE1	2.36	0.60
2:C:4748:MET:HA	2:C:4754:ARG:HH21	1.66	0.60
2:D:175:VAL:HG11	2:D:181:LEU:HD21	1.82	0.60
2:D:921:PHE:HB2	2:D:929:ARG:HD3	1.82	0.60
2:D:3319:PHE:HB3	2:D:3323:MET:HE1	1.83	0.60
2:A:1031:ARG:HH22	2:A:1042:THR:CG2	2.13	0.60
2:B:3221:LEU:HD11	2:B:3234:VAL:HG21	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:234:LEU:HD13	2:D:405:LEU:HD22	1.83	0.60
2:B:1689:ILE:HA	2:B:1703:TYR:CE1	2.32	0.60
2:C:801:ARG:NH1	2:C:1615:GLN:O	2.34	0.60
2:C:971:GLN:HE22	2:C:978:PRO:HD3	1.66	0.60
2:D:3221:LEU:HD11	2:D:3234:VAL:HG21	1.81	0.60
2:A:3018:ARG:HG2	2:A:3021:LEU:HD22	1.83	0.60
2:B:515:ALA:HB2	2:B:523:GLY:HA3	1.84	0.60
2:B:2455:ASP:OD2	2:B:2457:SER:OG	2.15	0.60
2:D:3301:VAL:HA	2:D:3304:GLN:HG2	1.83	0.60
2:B:971:GLN:HE22	2:B:978:PRO:HD3	1.67	0.60
2:B:2717:LEU:HD23	2:B:2779:LEU:HD23	1.84	0.60
2:C:3301:VAL:HA	2:C:3304:GLN:HG2	1.83	0.60
2:D:3018:ARG:HG2	2:D:3021:LEU:HD22	1.83	0.60
2:A:801:ARG:NH1	2:A:1615:GLN:O	2.34	0.60
2:C:629:GLN:OE1	2:C:1669:ASN:ND2	2.29	0.60
2:D:1559:ARG:HD2	2:D:1565:PRO:HD3	1.84	0.60
2:A:2679:ASP:HA	2:A:2920:ARG:HH21	1.67	0.60
2:B:2424:ARG:HG2	2:B:2476:TYR:CE1	2.36	0.60
2:B:2868:HIS:HB3	2:B:2871:LEU:HG	1.82	0.60
2:C:288:HIS:O	2:C:290:ARG:NH1	2.33	0.60
2:C:894:VAL:CG2	2:C:972:LEU:HD22	2.29	0.60
2:C:3192:ARG:HD3	2:C:3199:THR:HA	1.84	0.60
2:D:1444:GLY:HA3	2:D:1487:MET:HA	1.83	0.60
2:A:2070:ALA:HA	2:A:2075:ILE:HD11	1.83	0.60
2:A:2605:MET:HA	2:A:2608:LYS:HE2	1.84	0.60
2:A:4690:LYS:NZ	2:A:4692:SER:OG	2.19	0.60
2:B:288:HIS:O	2:B:290:ARG:NH1	2.33	0.60
2:B:2905:ARG:HH11	2:B:2906:GLY:H	1.50	0.60
2:B:3018:ARG:HG2	2:B:3021:LEU:HD22	1.83	0.60
2:C:234:LEU:HD13	2:C:405:LEU:HD22	1.83	0.60
2:C:3319:PHE:HB3	2:C:3323:MET:HE1	1.83	0.60
2:C:4831:ILE:HG13	2:C:4843:ARG:NH2	2.16	0.60
2:A:694:ARG:NH1	2:A:718:VAL:O	2.32	0.59
2:A:2424:ARG:HG2	2:A:2476:TYR:CE1	2.36	0.59
2:B:879:GLU:O	2:B:882:ARG:NH1	2.32	0.59
2:B:2920:ARG:HB2	2:B:2923:TYR:HB2	1.84	0.59
2:B:3319:PHE:HB3	2:B:3323:MET:HE1	1.83	0.59
2:C:2920:ARG:HB2	2:C:2923:TYR:HB2	1.84	0.59
2:D:2793:ARG:NH2	2:D:2796:ASP:OD2	2.33	0.59
2:D:3192:ARG:HD3	2:D:3199:THR:HA	1.84	0.59
2:A:912:LYS:NZ	2:A:914:GLN:O	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3192:ARG:HD3	2:B:3199:THR:HA	1.84	0.59
2:C:1031:ARG:HH22	2:C:1042:THR:CG2	2.13	0.59
2:D:307:SER:OG	2:D:315:LEU:O	2.20	0.59
2:D:1689:ILE:HA	2:D:1703:TYR:CE1	2.32	0.59
2:D:2679:ASP:HA	2:D:2920:ARG:HH21	1.67	0.59
2:D:4748:MET:HA	2:D:4754:ARG:HH21	1.66	0.59
2:A:307:SER:OG	2:A:315:LEU:O	2.20	0.59
2:A:3319:PHE:HB3	2:A:3323:MET:HE1	1.83	0.59
2:B:234:LEU:HD13	2:B:405:LEU:HD22	1.83	0.59
2:B:4748:MET:HA	2:B:4754:ARG:HH21	1.66	0.59
2:D:515:ALA:HB2	2:D:523:GLY:HA3	1.84	0.59
1:E:19:LYS:HZ1	1:E:52:GLY:HA3	1.65	0.59
2:A:234:LEU:HD13	2:A:405:LEU:HD22	1.83	0.59
2:A:2905:ARG:HH11	2:A:2906:GLY:H	1.50	0.59
2:A:2920:ARG:HB2	2:A:2923:TYR:HB2	1.84	0.59
2:C:2717:LEU:HD23	2:C:2779:LEU:HD23	1.84	0.59
2:D:2920:ARG:HB2	2:D:2923:TYR:HB2	1.84	0.59
2:A:515:ALA:HB2	2:A:523:GLY:HA3	1.84	0.59
2:A:1559:ARG:HD2	2:A:1565:PRO:HD3	1.84	0.59
2:A:2396:ILE:HD13	2:A:2468:MET:HE1	1.85	0.59
2:B:2605:MET:HA	2:B:2608:LYS:HE2	1.84	0.59
2:C:4270:LYS:NZ	2:C:4278:ASP:OD1	2.26	0.59
2:A:2717:LEU:HD23	2:A:2779:LEU:HD23	1.84	0.59
2:B:801:ARG:NH1	2:B:1615:GLN:O	2.34	0.59
2:C:4056:LYS:NZ	2:D:4660:PHE:O	2.35	0.59
2:D:2396:ILE:HD13	2:D:2468:MET:HE1	1.85	0.59
2:A:4748:MET:HA	2:A:4754:ARG:HH21	1.66	0.59
2:B:2679:ASP:HA	2:B:2920:ARG:HH21	1.67	0.59
2:C:2679:ASP:HA	2:C:2920:ARG:HH21	1.67	0.59
2:D:2424:ARG:HG2	2:D:2476:TYR:CE1	2.36	0.59
2:A:4673:ASP:HB3	2:A:4676:ALA:HB3	1.83	0.59
2:C:1559:ARG:HD2	2:C:1565:PRO:HD3	1.84	0.59
2:C:2070:ALA:HA	2:C:2075:ILE:HD11	1.84	0.59
2:D:2724:TYR:OH	2:D:2891:ASP:OD1	2.18	0.59
2:D:3188:SER:OG	2:D:3191:GLU:OE1	2.21	0.59
1:H:19:LYS:HZ1	1:H:52:GLY:HA3	1.67	0.59
2:A:3192:ARG:HD3	2:A:3199:THR:HA	1.84	0.59
2:B:2833:LEU:HB3	2:B:2838[B]:HIS:CE1	2.38	0.59
2:D:2070:ALA:HA	2:D:2075:ILE:HD11	1.84	0.59
2:D:2833:LEU:HB3	2:D:2838[B]:HIS:CE1	2.38	0.59
2:D:2905:ARG:HH11	2:D:2906:GLY:H	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3730:ARG:O	2:D:3734:ARG:NH1	2.36	0.59
2:D:4673:ASP:HB3	2:D:4676:ALA:HB3	1.83	0.59
2:A:971:GLN:HE22	2:A:978:PRO:HD3	1.66	0.59
2:B:2070:ALA:HA	2:B:2075:ILE:HD11	1.83	0.59
2:C:1444:GLY:HA3	2:C:1487:MET:HA	1.83	0.59
2:C:2396:ILE:HD13	2:C:2468:MET:HE1	1.85	0.59
2:C:2605:MET:HA	2:C:2608:LYS:HE2	1.84	0.59
2:D:2605:MET:HA	2:D:2608:LYS:HE2	1.84	0.59
2:B:804:LEU:HD13	2:B:832:LEU:HD21	1.85	0.58
2:B:2179:LEU:O	2:B:2183:GLU:CB	2.51	0.58
2:B:3188:SER:OG	2:B:3191:GLU:OE1	2.21	0.58
2:C:2833:LEU:HB3	2:C:2838[B]:HIS:CE1	2.38	0.58
2:C:4673:ASP:HB3	2:C:4676:ALA:HB3	1.84	0.58
2:D:4831:ILE:HG13	2:D:4843:ARG:NH2	2.16	0.58
2:A:1788:LYS:NZ	2:A:1838:ASP:OD2	2.36	0.58
2:A:3844:GLN:HG3	2:A:3922:GLU:HG3	1.86	0.58
2:B:1559:ARG:HD2	2:B:1565:PRO:HD3	1.84	0.58
2:B:2710:ASN:OD1	2:B:2711:ILE:HG13	2.03	0.58
2:D:894:VAL:CG2	2:D:972:LEU:HD22	2.29	0.58
2:D:895:MET:HE3	2:D:978:PRO:HG2	1.85	0.58
2:A:2179:LEU:O	2:A:2183:GLU:CB	2.51	0.58
2:B:4673:ASP:HB3	2:B:4676:ALA:HB3	1.83	0.58
2:C:3188:SER:OG	2:C:3191:GLU:OE1	2.21	0.58
2:D:1031:ARG:HH22	2:D:1042:THR:CG2	2.13	0.58
2:D:2980:LEU:HD11	2:D:2989:PRO:HB2	1.85	0.58
2:D:3245:TYR:HD2	2:D:3246:MET:HE2	1.69	0.58
2:D:4185:LYS:NZ	2:D:4889:PHE:O	2.33	0.58
2:B:629:GLN:OE1	2:B:1669:ASN:ND2	2.29	0.58
2:C:2980:LEU:HD11	2:C:2989:PRO:HB2	1.85	0.58
2:D:218:SER:HB2	2:D:286:GLY:HA3	1.86	0.58
2:D:1051:ARG:HA	2:D:1054:VAL:HG22	1.86	0.58
2:D:2179:LEU:O	2:D:2183:GLU:CB	2.51	0.58
2:D:2717:LEU:HD23	2:D:2779:LEU:HD23	1.84	0.58
2:A:804:LEU:HD13	2:A:832:LEU:HD21	1.85	0.58
2:A:895:MET:HE3	2:A:978:PRO:HG2	1.85	0.58
2:B:894:VAL:CG2	2:B:972:LEU:HD22	2.29	0.58
2:B:2396:ILE:HD13	2:B:2468:MET:HE1	1.85	0.58
2:C:2905:ARG:HH11	2:C:2906:GLY:H	1.50	0.58
2:C:3730:ARG:O	2:C:3734:ARG:NH1	2.36	0.58
2:D:3844:GLN:HG3	2:D:3922:GLU:HG3	1.86	0.58
2:A:2559:CYS:O	2:A:2566:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2833:LEU:HB3	2:A:2838[B]:HIS:CE1	2.38	0.58
2:B:1788:LYS:NZ	2:B:1838:ASP:OD2	2.36	0.58
2:C:895:MET:HE3	2:C:978:PRO:HG2	1.85	0.58
2:C:2179:LEU:O	2:C:2183:GLU:CB	2.51	0.58
2:C:2678:PRO:HA	2:C:2921:PHE:HD2	1.69	0.58
2:C:3935:LEU:HD23	2:C:3940:LEU:HD22	1.85	0.58
2:D:2759:PRO:O	2:D:2763:LEU:N	2.36	0.58
2:A:894:VAL:HA	2:A:897:LYS:HD2	1.86	0.58
2:A:2759:PRO:O	2:A:2763:LEU:N	2.36	0.58
2:B:894:VAL:HA	2:B:897:LYS:HD2	1.86	0.58
2:B:2759:PRO:O	2:B:2763:LEU:N	2.36	0.58
2:C:3844:GLN:HG3	2:C:3922:GLU:HG3	1.86	0.58
2:D:661:LEU:O	2:D:788:PHE:N	2.37	0.58
2:D:971:GLN:HE22	2:D:978:PRO:HD3	1.66	0.58
2:D:1973:ILE:HA	2:D:1976:LEU:HB2	1.86	0.58
2:D:3171:LEU:HB3	2:D:3211:LEU:HB2	1.86	0.58
2:D:3935:LEU:HD23	2:D:3940:LEU:HD22	1.85	0.58
2:A:1973:ILE:HA	2:A:1976:LEU:HB2	1.86	0.58
2:C:661:LEU:O	2:C:788:PHE:N	2.37	0.58
2:C:1788:LYS:NZ	2:C:1838:ASP:OD2	2.36	0.58
2:A:218:SER:HB2	2:A:286:GLY:HA3	1.86	0.58
2:A:1051:ARG:HA	2:A:1054:VAL:HG22	1.86	0.58
2:A:3188:SER:OG	2:A:3191:GLU:OE1	2.21	0.58
2:B:3171:LEU:HB3	2:B:3211:LEU:HB2	1.86	0.58
2:B:3844:GLN:HG3	2:B:3922:GLU:HG3	1.86	0.58
2:C:307:SER:OG	2:C:315:LEU:O	2.20	0.58
2:C:2710:ASN:OD1	2:C:2711:ILE:HG13	2.03	0.58
2:D:2710:ASN:OD1	2:D:2711:ILE:HG13	2.03	0.58
2:A:1689:ILE:HA	2:A:1703:TYR:CE1	2.32	0.58
2:B:307:SER:OG	2:B:315:LEU:O	2.20	0.58
2:B:2559:CYS:O	2:B:2566:ARG:NH2	2.37	0.58
2:B:3245:TYR:HD2	2:B:3246:MET:HE2	1.69	0.58
2:C:2759:PRO:O	2:C:2763:LEU:N	2.36	0.58
2:A:2980:LEU:HD11	2:A:2989:PRO:HB2	1.85	0.57
2:B:2244:ALA:O	2:B:2248:MET:HB2	2.04	0.57
2:C:894:VAL:HA	2:C:897:LYS:HD2	1.86	0.57
2:C:1051:ARG:HA	2:C:1054:VAL:HG22	1.86	0.57
2:A:3046:MET:HA	2:A:3046:MET:HE3	1.86	0.57
2:A:3245:TYR:HD2	2:A:3246:MET:HE2	1.69	0.57
2:C:3817:LEU:HD22	2:C:3819:MET:SD	2.44	0.57
2:A:2710:ASN:OD1	2:A:2711:ILE:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:661:LEU:O	2:B:788:PHE:N	2.37	0.57
2:B:893:TRP:CE3	2:B:896:ASN:HB2	2.40	0.57
2:B:895:MET:HE3	2:B:978:PRO:HG2	1.85	0.57
2:B:2678:PRO:HA	2:B:2921:PHE:HD2	1.69	0.57
2:B:2980:LEU:HD11	2:B:2989:PRO:HB2	1.85	0.57
2:C:2436:ILE:HA	2:C:2465:LYS:HE3	1.87	0.57
2:D:2546:ASP:O	2:D:2550:HIS:ND1	2.37	0.57
2:A:2546:ASP:O	2:A:2550:HIS:ND1	2.37	0.57
2:B:1004:HIS:NE2	2:B:1033:VAL:O	2.25	0.57
2:B:2895:PHE:HA	2:B:2898:ILE:HD12	1.87	0.57
2:B:3817:LEU:HD22	2:B:3819:MET:SD	2.44	0.57
2:C:2244:ALA:O	2:C:2248:MET:HB2	2.04	0.57
2:C:2546:ASP:O	2:C:2550:HIS:ND1	2.37	0.57
2:C:2895:PHE:HA	2:C:2898:ILE:HD12	1.87	0.57
2:B:891:GLU:O	2:B:894:VAL:HG22	2.05	0.57
2:B:916:PRO:HB3	2:B:923:LYS:NZ	2.20	0.57
2:B:2546:ASP:O	2:B:2550:HIS:ND1	2.37	0.57
2:C:893:TRP:CE3	2:C:896:ASN:HB2	2.40	0.57
2:A:893:TRP:CE3	2:A:896:ASN:HB2	2.40	0.57
2:A:2202:TYR:O	2:A:2206:ILE:HG12	2.05	0.57
2:B:2436:ILE:HA	2:B:2465:LYS:HE3	1.87	0.57
2:B:2541:HIS:HB3	2:B:2544:LEU:HB3	1.86	0.57
2:D:804:LEU:HD13	2:D:832:LEU:HD21	1.85	0.57
2:D:893:TRP:CE3	2:D:896:ASN:HB2	2.40	0.57
2:A:3034:HIS:CE1	2:A:3038:GLN:HE22	2.23	0.57
2:B:218:SER:HB2	2:B:286:GLY:HA3	1.86	0.57
2:B:1051:ARG:HA	2:B:1054:VAL:HG22	1.86	0.57
2:C:2202:TYR:O	2:C:2206:ILE:HG12	2.05	0.57
2:D:1788:LYS:NZ	2:D:1838:ASP:OD2	2.36	0.57
2:A:916:PRO:HB3	2:A:923:LYS:NZ	2.20	0.57
2:A:2678:PRO:HA	2:A:2921:PHE:HD2	1.69	0.57
2:C:2541:HIS:HB3	2:C:2544:LEU:HB3	1.86	0.57
2:C:2559:CYS:O	2:C:2566:ARG:NH2	2.37	0.57
2:C:2798:MET:HA	2:C:2798:MET:HE2	1.86	0.57
2:C:3171:LEU:HB3	2:C:3211:LEU:HB2	1.86	0.57
2:D:894:VAL:HA	2:D:897:LYS:HD2	1.86	0.57
2:A:661:LEU:O	2:A:788:PHE:N	2.37	0.57
2:A:3817:LEU:HD22	2:A:3819:MET:SD	2.44	0.57
2:B:3046:MET:HA	2:B:3046:MET:HE3	1.86	0.57
2:C:218:SER:HB2	2:C:286:GLY:HA3	1.85	0.57
2:C:1004:HIS:NE2	2:C:1033:VAL:O	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3034:HIS:CE1	2:C:3038:GLN:HE22	2.23	0.57
2:D:2202:TYR:O	2:D:2206:ILE:HG12	2.05	0.57
2:D:2678:PRO:HA	2:D:2921:PHE:HD2	1.69	0.57
2:D:3046:MET:HA	2:D:3046:MET:HE3	1.86	0.57
2:D:4948:CYS:SG	2:D:4950:GLU:HG2	2.45	0.57
2:A:1074:ARG:NH1	2:A:1078:CYS:O	2.38	0.57
2:A:4948:CYS:SG	2:A:4950:GLU:HG2	2.45	0.57
2:B:162:ILE:HD11	2:B:181:LEU:HB3	1.87	0.57
2:B:3246:MET:SD	2:B:3273:MET:HE1	2.45	0.57
2:C:804:LEU:HD13	2:C:832:LEU:HD21	1.85	0.57
2:D:916:PRO:HB3	2:D:923:LYS:HZ2	1.69	0.57
2:D:1074:ARG:NH1	2:D:1078:CYS:O	2.38	0.57
2:D:2541:HIS:HB3	2:D:2544:LEU:HB3	1.86	0.57
2:D:2559:CYS:O	2:D:2566:ARG:NH2	2.37	0.57
2:D:3246:MET:SD	2:D:3273:MET:HE1	2.45	0.57
2:A:2798:MET:HE2	2:A:2798:MET:HA	1.86	0.56
2:A:3246:MET:SD	2:A:3273:MET:HE1	2.45	0.56
2:B:1074:ARG:NH1	2:B:1078:CYS:O	2.38	0.56
2:B:1973:ILE:HA	2:B:1976:LEU:HB2	1.86	0.56
2:B:4948:CYS:SG	2:B:4950:GLU:HG2	2.45	0.56
2:C:162:ILE:HD11	2:C:181:LEU:HB3	1.87	0.56
2:C:3174:HIS:ND1	2:C:3175:LEU:HG	2.20	0.56
2:D:163:HIS:HB2	2:D:182:ILE:HG13	1.87	0.56
2:D:2895:PHE:HA	2:D:2898:ILE:HD12	1.87	0.56
2:D:3043:ARG:NH2	2:D:3116:GLN:O	2.38	0.56
2:D:3900:GLU:OE2	2:D:3904:ARG:NH2	2.38	0.56
2:A:894:VAL:CG2	2:A:972:LEU:HD22	2.29	0.56
2:A:3730:ARG:O	2:A:3734:ARG:NH1	2.36	0.56
2:A:3935:LEU:HD23	2:A:3940:LEU:HD22	1.85	0.56
2:B:3043:ARG:NH2	2:B:3116:GLN:O	2.38	0.56
2:B:3900:GLU:OE2	2:B:3904:ARG:NH2	2.38	0.56
2:B:3935:LEU:HD23	2:B:3940:LEU:HD22	1.85	0.56
2:C:891:GLU:O	2:C:894:VAL:HG22	2.05	0.56
2:D:3817:LEU:HD22	2:D:3819:MET:SD	2.44	0.56
2:A:2541:HIS:HB3	2:A:2544:LEU:HB3	1.86	0.56
2:A:2895:PHE:HA	2:A:2898:ILE:HD12	1.87	0.56
2:A:3043:ARG:NH2	2:A:3116:GLN:O	2.38	0.56
2:A:4185:LYS:NZ	2:A:4889:PHE:O	2.33	0.56
2:B:2724:TYR:OH	2:B:2891:ASP:OD1	2.18	0.56
2:B:3174:HIS:ND1	2:B:3175:LEU:HG	2.20	0.56
2:C:3046:MET:HA	2:C:3046:MET:HE3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3245:TYR:HD2	2:C:3246:MET:HE2	1.69	0.56
2:C:3900:GLU:OE2	2:C:3904:ARG:NH2	2.38	0.56
2:C:4948:CYS:SG	2:C:4950:GLU:HG2	2.45	0.56
2:D:162:ILE:HD11	2:D:181:LEU:HB3	1.87	0.56
2:D:2436:ILE:HA	2:D:2465:LYS:HE3	1.87	0.56
2:D:2798:MET:HE2	2:D:2798:MET:HA	1.86	0.56
2:D:3174:HIS:ND1	2:D:3175:LEU:HG	2.20	0.56
2:B:3034:HIS:CE1	2:B:3038:GLN:HE22	2.23	0.56
2:C:1009:ARG:O	2:C:1013:ARG:HG2	2.06	0.56
2:C:1973:ILE:HA	2:C:1976:LEU:HB2	1.86	0.56
2:C:3214:LEU:HD13	2:C:3242:LEU:HD21	1.88	0.56
2:D:3034:HIS:CE1	2:D:3038:GLN:HE22	2.23	0.56
2:A:2080:LEU:O	2:A:2084:MET:HG3	2.06	0.56
2:A:2688:MET:HB3	2:A:2689:MET:HE2	1.88	0.56
2:C:3246:MET:SD	2:C:3273:MET:HE1	2.45	0.56
2:D:629:GLN:OE1	2:D:1669:ASN:ND2	2.29	0.56
2:A:891:GLU:O	2:A:894:VAL:HG22	2.05	0.56
2:A:3607:PRO:HD2	2:A:3610:ASN:HB2	1.87	0.56
2:B:2688:MET:HB3	2:B:2689:MET:HE2	1.88	0.56
2:B:2798:MET:HE2	2:B:2798:MET:HA	1.86	0.56
2:B:3214:LEU:HD13	2:B:3242:LEU:HD21	1.88	0.56
2:B:3730:ARG:O	2:B:3734:ARG:NH1	2.36	0.56
2:C:163:HIS:HB2	2:C:182:ILE:HG13	1.87	0.56
2:A:2057:THR:HG22	2:A:2059:GLN:H	1.71	0.56
2:A:2436:ILE:HA	2:A:2465:LYS:HE3	1.87	0.56
2:A:4660:PHE:O	2:D:4056:LYS:NZ	2.39	0.56
2:B:1009:ARG:O	2:B:1013:ARG:HG2	2.06	0.56
2:B:2202:TYR:O	2:B:2206:ILE:HG12	2.05	0.56
2:C:916:PRO:HB3	2:C:923:LYS:NZ	2.20	0.56
2:C:3043:ARG:NH2	2:C:3116:GLN:O	2.38	0.56
2:C:3325:LYS:HG3	2:C:3328:LYS:NZ	2.20	0.56
2:D:2244:ALA:O	2:D:2248:MET:HB2	2.04	0.56
2:D:2605:MET:SD	2:D:2606:PRO:HD3	2.46	0.56
2:A:882:ARG:HD2	2:A:937:LEU:HD21	1.88	0.56
2:A:916:PRO:HB3	2:A:923:LYS:HZ2	1.71	0.56
2:A:1766:PRO:HG3	2:A:1780:PRO:HB3	1.87	0.56
2:A:2279:MET:SD	2:A:2283:LYS:HE2	2.46	0.56
2:A:3171:LEU:HB3	2:A:3211:LEU:HB2	1.86	0.56
2:B:2057:THR:HG22	2:B:2059:GLN:H	1.71	0.56
2:B:3072:MET:HE3	2:B:3136:SER:HB2	1.88	0.56
2:B:4185:LYS:NZ	2:B:4889:PHE:O	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1074:ARG:NH1	2:C:1078:CYS:O	2.38	0.56
2:C:3607:PRO:HD2	2:C:3610:ASN:HB2	1.87	0.56
2:D:891:GLU:O	2:D:894:VAL:HG22	2.05	0.56
2:D:3072:MET:HE3	2:D:3136:SER:HB2	1.88	0.56
2:A:163:HIS:HB2	2:A:182:ILE:HG13	1.87	0.56
2:B:3325:LYS:HG3	2:B:3328:LYS:NZ	2.20	0.56
2:C:1766:PRO:HG3	2:C:1780:PRO:HB3	1.87	0.56
2:C:2057:THR:HG22	2:C:2059:GLN:H	1.71	0.56
2:D:363:ILE:HD11	2:D:403:ILE:HD13	1.88	0.56
2:D:916:PRO:HB3	2:D:923:LYS:NZ	2.20	0.56
2:D:2057:THR:HG22	2:D:2059:GLN:H	1.71	0.56
2:A:162:ILE:HD11	2:A:181:LEU:HB3	1.87	0.56
2:A:1502:ASN:OD1	2:A:1503:ASN:N	2.39	0.56
2:A:2244:ALA:O	2:A:2248:MET:HB2	2.04	0.56
2:C:2688:MET:HB3	2:C:2689:MET:HE2	1.88	0.56
2:D:2728:SER:HA	2:D:2731:LYS:NZ	2.21	0.56
2:D:4270:LYS:NZ	2:D:4278:ASP:OD1	2.26	0.56
2:A:2605:MET:SD	2:A:2606:PRO:HD3	2.46	0.55
2:A:3174:HIS:ND1	2:A:3175:LEU:HG	2.20	0.55
2:B:363:ILE:HD11	2:B:403:ILE:HD13	1.88	0.55
2:B:4043:ILE:O	2:B:4078:LEU:N	2.31	0.55
2:C:2728:SER:HA	2:C:2731:LYS:NZ	2.21	0.55
2:D:46:LEU:HD23	2:D:137:ARG:HH21	1.72	0.55
2:D:1502:ASN:OD1	2:D:1503:ASN:N	2.39	0.55
2:D:2688:MET:HB3	2:D:2689:MET:HE2	1.88	0.55
2:A:3148:VAL:HA	2:A:3151:GLN:NE2	2.21	0.55
2:A:3298:ARG:HA	2:A:3301:VAL:HG22	1.88	0.55
2:A:3892:TYR:OH	2:A:3899:ASP:OD1	2.19	0.55
2:A:4837:ASP:OD2	2:A:4838:GLU:N	2.39	0.55
2:B:882:ARG:HD2	2:B:937:LEU:HD21	1.88	0.55
2:B:2279:MET:SD	2:B:2283:LYS:HE2	2.46	0.55
2:B:2605:MET:SD	2:B:2606:PRO:HD3	2.46	0.55
2:B:3607:PRO:HD2	2:B:3610:ASN:HB2	1.87	0.55
2:A:46:LEU:HD23	2:A:137:ARG:HH21	1.71	0.55
2:A:2728:SER:HA	2:A:2731:LYS:NZ	2.21	0.55
2:A:4268:MET:O	2:A:4272:LYS:HG2	2.07	0.55
2:B:1502:ASN:OD1	2:B:1503:ASN:N	2.39	0.55
2:B:2581:ARG:HH11	2:B:2582:PRO:HD2	1.71	0.55
2:B:2728:SER:HA	2:B:2731:LYS:NZ	2.21	0.55
2:C:363:ILE:HD11	2:C:403:ILE:HD13	1.88	0.55
2:C:3281:LEU:O	2:C:3284:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4185:LYS:NZ	2:C:4889:PHE:O	2.33	0.55
1:F:22:THR:HG22	1:F:50:ARG:HG2	1.89	0.55
2:A:474:ASP:O	2:A:478:ARG:HG2	2.07	0.55
2:A:3214:LEU:HD13	2:A:3242:LEU:HD21	1.88	0.55
2:B:1766:PRO:HG3	2:B:1780:PRO:HB3	1.87	0.55
2:C:2279:MET:SD	2:C:2283:LYS:HE2	2.46	0.55
2:C:2605:MET:SD	2:C:2606:PRO:HD3	2.46	0.55
2:D:1009:ARG:O	2:D:1013:ARG:HG2	2.06	0.55
2:D:3187:LYS:NZ	2:D:3191:GLU:HB3	2.22	0.55
2:D:3214:LEU:HD13	2:D:3242:LEU:HD21	1.88	0.55
2:D:3325:LYS:HG3	2:D:3328:LYS:NZ	2.20	0.55
2:A:363:ILE:HD11	2:A:403:ILE:HD13	1.88	0.55
2:A:1971:GLU:HA	2:A:1974:ASN:HB2	1.88	0.55
2:A:3900:GLU:OE2	2:A:3904:ARG:NH2	2.38	0.55
2:B:163:HIS:HB2	2:B:182:ILE:HG13	1.87	0.55
2:B:2080:LEU:O	2:B:2084:MET:HG3	2.06	0.55
2:C:882:ARG:HD2	2:C:937:LEU:HD21	1.88	0.55
2:C:2080:LEU:O	2:C:2084:MET:HG3	2.06	0.55
2:C:3187:LYS:NZ	2:C:3191:GLU:HB3	2.22	0.55
1:F:19:LYS:HZ1	1:F:52:GLY:HA3	1.72	0.55
2:A:2426:LEU:HA	2:B:143:LEU:HD21	1.88	0.55
2:A:2603:ALA:C	2:A:2606:PRO:HD2	2.32	0.55
2:A:3325:LYS:HG3	2:A:3328:LYS:NZ	2.20	0.55
2:D:2538:THR:HG23	2:D:2584:MET:HE1	1.88	0.55
2:D:4043:ILE:O	2:D:4078:LEU:N	2.31	0.55
1:F:50:ARG:NH2	1:F:53:LYS:HE2	2.22	0.55
1:G:50:ARG:NH2	1:G:53:LYS:HE2	2.22	0.55
1:H:22:THR:HG22	1:H:50:ARG:HG2	1.89	0.55
2:A:1009:ARG:O	2:A:1013:ARG:HG2	2.06	0.55
2:A:1575:HIS:O	2:A:1576:LYS:NZ	2.40	0.55
2:B:270:HIS:CE1	2:B:491:GLU:HG3	2.42	0.55
2:B:1006:VAL:HA	2:B:1009:ARG:HG2	1.89	0.55
2:B:3281:LEU:O	2:B:3284:ILE:HG22	2.07	0.55
2:B:4268:MET:O	2:B:4272:LYS:HG2	2.07	0.55
2:C:280:LEU:HD12	2:C:294:PRO:HB2	1.89	0.55
2:D:280:LEU:HD12	2:D:294:PRO:HB2	1.89	0.55
2:D:882:ARG:HD2	2:D:937:LEU:HD21	1.88	0.55
2:D:1766:PRO:HG3	2:D:1780:PRO:HB3	1.87	0.55
2:D:2279:MET:SD	2:D:2283:LYS:HE2	2.46	0.55
2:D:3249:TRP:HB3	2:D:3266:THR:HG21	1.89	0.55
2:D:3287:ASN:HA	2:D:3290:ILE:HG12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:50:ARG:NH2	1:H:53:LYS:HE2	2.22	0.55
2:A:270:HIS:CE1	2:A:491:GLU:HG3	2.42	0.55
2:A:1440:ASN:HB3	2:A:1546:GLN:HB3	1.89	0.55
2:A:1608:VAL:HA	2:A:1618:LEU:O	2.07	0.55
2:A:3150:ARG:NH2	2:A:3151:GLN:OE1	2.40	0.55
2:B:880:ARG:NH1	2:B:881:ILE:HB	2.22	0.55
2:C:2603:ALA:C	2:C:2606:PRO:HD2	2.32	0.55
2:D:3150:ARG:NH2	2:D:3151:GLN:OE1	2.40	0.55
2:A:981:MET:N	2:A:981:MET:SD	2.80	0.55
2:A:2724:TYR:OH	2:A:2891:ASP:OD1	2.18	0.55
2:B:1575:HIS:O	2:B:1576:LYS:NZ	2.40	0.55
2:B:2603:ALA:C	2:B:2606:PRO:HD2	2.32	0.55
2:C:2591:ARG:HG2	2:C:2695:MET:HE1	1.88	0.55
2:C:3150:ARG:NH2	2:C:3151:GLN:OE1	2.40	0.55
2:D:270:HIS:CE1	2:D:491:GLU:HG3	2.42	0.55
2:D:3236:GLU:HG3	2:D:3237:VAL:HG13	1.88	0.55
2:A:2581:ARG:HH11	2:A:2582:PRO:HD2	1.71	0.55
2:A:3187:LYS:NZ	2:A:3191:GLU:HB3	2.22	0.55
2:B:3287:ASN:HA	2:B:3290:ILE:HG12	1.89	0.55
2:C:2538:THR:HG23	2:C:2584:MET:HE1	1.88	0.55
2:C:2893:LEU:O	2:C:2896:LEU:HB3	2.07	0.55
2:D:981:MET:N	2:D:981:MET:SD	2.80	0.55
2:D:2080:LEU:O	2:D:2084:MET:HG3	2.06	0.55
2:D:2603:ALA:C	2:D:2606:PRO:HD2	2.32	0.55
2:D:3607:PRO:HD2	2:D:3610:ASN:HB2	1.87	0.55
2:A:4641:PRO:HB2	2:A:4647:LYS:HD2	1.90	0.54
2:B:1608:VAL:HA	2:B:1618:LEU:O	2.07	0.54
2:B:1971:GLU:HA	2:B:1974:ASN:HB2	1.88	0.54
2:B:2681:MET:HE1	2:B:2917:ILE:HA	1.89	0.54
2:B:2893:LEU:O	2:B:2896:LEU:HB3	2.08	0.54
2:B:3236:GLU:HG3	2:B:3237:VAL:HG13	1.88	0.54
2:B:3298:ARG:HA	2:B:3301:VAL:HG22	1.88	0.54
2:C:1440:ASN:HB3	2:C:1546:GLN:HB3	1.89	0.54
2:C:3072:MET:HE3	2:C:3136:SER:HB2	1.88	0.54
2:C:3074:ASN:ND2	2:C:3094:ILE:HD11	2.22	0.54
2:C:3287:ASN:HA	2:C:3290:ILE:HG12	1.89	0.54
2:D:880:ARG:NH1	2:D:881:ILE:HB	2.22	0.54
2:D:1975:MET:HA	2:D:1978:ASN:ND2	2.22	0.54
2:A:189:GLU:OE2	2:D:2322:ARG:NH1	2.39	0.54
2:A:1975:MET:HA	2:A:1978:ASN:ND2	2.22	0.54
2:A:2833:LEU:HB2	2:A:2894:LYS:NZ	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3281:LEU:O	2:A:3284:ILE:HG22	2.07	0.54
2:B:2538:THR:HG23	2:B:2584:MET:HE1	1.88	0.54
2:B:3148:VAL:HA	2:B:3151:GLN:NE2	2.21	0.54
2:B:4241:VAL:HG13	2:C:4626:ILE:HG12	1.88	0.54
2:C:1502:ASN:OD1	2:C:1503:ASN:N	2.39	0.54
2:C:1608:VAL:HA	2:C:1618:LEU:O	2.07	0.54
2:C:1975:MET:HA	2:C:1978:ASN:ND2	2.22	0.54
2:C:3148:VAL:HA	2:C:3151:GLN:NE2	2.21	0.54
2:D:474:ASP:O	2:D:478:ARG:HG2	2.07	0.54
2:D:1575:HIS:O	2:D:1576:LYS:NZ	2.40	0.54
2:D:1608:VAL:HA	2:D:1618:LEU:O	2.07	0.54
2:A:3072:MET:HE3	2:A:3136:SER:HB2	1.88	0.54
2:B:981:MET:SD	2:B:981:MET:N	2.80	0.54
2:B:2642:ARG:NE	2:B:2682:GLU:OE1	2.40	0.54
2:B:3150:ARG:NH2	2:B:3151:GLN:OE1	2.40	0.54
2:B:3605:MET:HG2	2:B:3606:ALA:N	2.22	0.54
2:C:441:LYS:HB3	2:C:444:THR:HG23	1.90	0.54
2:C:2642:ARG:NE	2:C:2682:GLU:OE1	2.40	0.54
2:C:2681:MET:HE1	2:C:2917:ILE:HA	1.89	0.54
2:C:3298:ARG:HA	2:C:3301:VAL:HG22	1.88	0.54
2:D:441:LYS:HB3	2:D:444:THR:HG23	1.90	0.54
2:D:1971:GLU:HA	2:D:1974:ASN:HB2	1.88	0.54
2:D:2681:MET:HE1	2:D:2917:ILE:HA	1.89	0.54
2:D:3281:LEU:O	2:D:3284:ILE:HG22	2.07	0.54
2:D:4837:ASP:OD2	2:D:4838:GLU:N	2.40	0.54
1:E:50:ARG:NH2	1:E:53:LYS:HE2	2.22	0.54
2:A:629:GLN:OE1	2:A:1669:ASN:ND2	2.29	0.54
2:A:2893:LEU:O	2:A:2896:LEU:HB3	2.08	0.54
2:A:4818:TYR:HA	2:B:4848:ILE:HD11	1.90	0.54
2:B:280:LEU:HD12	2:B:294:PRO:HB2	1.89	0.54
2:B:2149:ILE:HG21	2:B:2167:MET:HE1	1.90	0.54
2:B:3187:LYS:NZ	2:B:3191:GLU:HB3	2.22	0.54
2:C:1006:VAL:HG22	2:C:1009:ARG:HE	1.72	0.54
2:C:2149:ILE:HG21	2:C:2167:MET:HE1	1.90	0.54
2:C:2406:MET:HA	2:C:2409:ILE:HG22	1.90	0.54
2:C:2894:LYS:O	2:C:2898:ILE:HG13	2.08	0.54
2:D:2247:VAL:HG21	2:D:2257:LEU:HD12	1.90	0.54
2:D:2894:LYS:O	2:D:2898:ILE:HG13	2.07	0.54
2:A:280:LEU:HD12	2:A:294:PRO:HB2	1.89	0.54
2:A:3236:GLU:HG3	2:A:3237:VAL:HG13	1.89	0.54
2:A:4707:MET:HG3	2:D:4252:ILE:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:LYS:HB3	2:B:444:THR:HG23	1.90	0.54
2:B:1975:MET:HA	2:B:1978:ASN:ND2	2.22	0.54
2:B:3074:ASN:ND2	2:B:3094:ILE:HD11	2.23	0.54
2:C:270:HIS:CE1	2:C:491:GLU:HG3	2.42	0.54
2:C:474:ASP:O	2:C:478:ARG:HG2	2.07	0.54
2:C:880:ARG:NH1	2:C:881:ILE:HB	2.22	0.54
2:D:2149:ILE:HG21	2:D:2167:MET:HE1	1.90	0.54
2:D:2581:ARG:HH11	2:D:2582:PRO:HD2	1.71	0.54
2:D:2591:ARG:HG2	2:D:2695:MET:HE1	1.88	0.54
2:D:2833:LEU:HB3	2:D:2838[A]:HIS:CE1	2.43	0.54
2:D:3148:VAL:HA	2:D:3151:GLN:NE2	2.21	0.54
2:A:880:ARG:NH1	2:A:881:ILE:HB	2.22	0.54
2:A:1839:LEU:HD12	2:A:1842:ILE:HD11	1.90	0.54
2:A:2149:ILE:HG21	2:A:2167:MET:HE1	1.90	0.54
2:A:2247:VAL:HG21	2:A:2257:LEU:HD12	1.90	0.54
2:A:2642:ARG:NE	2:A:2682:GLU:OE1	2.40	0.54
2:A:3074:ASN:ND2	2:A:3094:ILE:HD11	2.23	0.54
2:B:1029:ASN:C	2:B:1031:ARG:H	2.15	0.54
2:B:2172:MET:O	2:B:2176:VAL:HG23	2.08	0.54
2:B:2406:MET:HA	2:B:2409:ILE:HG22	1.90	0.54
2:B:2413:LYS:HZ2	2:B:2415:GLU:HB3	1.73	0.54
2:B:3249:TRP:HB3	2:B:3266:THR:HG21	1.89	0.54
2:B:4045:LYS:HB3	2:B:4046:ARG:HH21	1.73	0.54
2:B:4837:ASP:OD2	2:B:4838:GLU:N	2.40	0.54
2:C:28:ILE:O	2:C:31:GLU:HG3	2.08	0.54
2:C:1074:ARG:HH11	2:C:1078:CYS:HB3	1.73	0.54
2:C:1575:HIS:O	2:C:1576:LYS:NZ	2.40	0.54
2:C:2833:LEU:HB3	2:C:2838[A]:HIS:CE1	2.43	0.54
2:C:4045:LYS:HB3	2:C:4046:ARG:HH21	1.73	0.54
2:C:4641:PRO:HB2	2:C:4647:LYS:HD2	1.89	0.54
2:D:2172:MET:O	2:D:2176:VAL:HG23	2.08	0.54
2:D:4268:MET:O	2:D:4272:LYS:HG2	2.07	0.54
2:A:23:GLN:HB3	2:A:34:LYS:HD2	1.90	0.54
2:A:1006:VAL:HA	2:A:1009:ARG:HG2	1.89	0.54
2:B:2247:VAL:HG21	2:B:2257:LEU:HD12	1.90	0.54
2:C:46:LEU:HD23	2:C:137:ARG:HH21	1.72	0.54
2:C:2247:VAL:HG21	2:C:2257:LEU:HD12	1.90	0.54
2:C:2581:ARG:HH11	2:C:2582:PRO:HD2	1.71	0.54
2:C:4837:ASP:OD2	2:C:4838:GLU:N	2.40	0.54
2:D:2406:MET:HA	2:D:2409:ILE:HG22	1.90	0.54
2:A:663:VAL:HA	2:A:671:LYS:HZ3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2538:THR:HG23	2:A:2584:MET:HE1	1.88	0.54
2:A:2591:ARG:HG2	2:A:2695:MET:HE1	1.88	0.54
2:A:3287:ASN:HA	2:A:3290:ILE:HG12	1.89	0.54
2:B:28:ILE:O	2:B:31:GLU:HG3	2.08	0.54
2:B:474:ASP:O	2:B:478:ARG:HG2	2.07	0.54
2:B:663:VAL:HA	2:B:671:LYS:HZ3	1.73	0.54
2:B:2591:ARG:HG2	2:B:2695:MET:HE1	1.88	0.54
2:B:2981:TYR:O	2:B:2984:SER:OG	2.26	0.54
2:C:981:MET:N	2:C:981:MET:SD	2.80	0.54
2:C:2172:MET:O	2:C:2176:VAL:HG23	2.08	0.54
2:C:3605:MET:HG2	2:C:3606:ALA:N	2.22	0.54
2:D:663:VAL:HA	2:D:671:LYS:HZ3	1.73	0.54
2:D:2550:HIS:CD2	2:D:2591:ARG:HD2	2.43	0.54
2:D:3074:ASN:ND2	2:D:3094:ILE:HD11	2.22	0.54
2:D:4045:LYS:HB3	2:D:4046:ARG:HH21	1.73	0.54
1:E:22:THR:HG22	1:E:50:ARG:HG2	1.89	0.54
2:A:441:LYS:HB3	2:A:444:THR:HG23	1.90	0.54
2:A:1006:VAL:HG22	2:A:1009:ARG:HE	1.73	0.54
2:A:2550:HIS:CD2	2:A:2591:ARG:HD2	2.43	0.54
2:A:3249:TRP:HB3	2:A:3266:THR:HG21	1.89	0.54
2:B:232:ASP:OD1	2:B:356:TYR:OH	2.21	0.54
2:B:1440:ASN:HB3	2:B:1546:GLN:HB3	1.89	0.54
2:B:2894:LYS:O	2:B:2898:ILE:HG13	2.08	0.54
2:B:3227:ARG:HB3	2:B:3230:GLN:OE1	2.08	0.54
2:C:1029:ASN:C	2:C:1031:ARG:H	2.15	0.54
2:C:1971:GLU:HA	2:C:1974:ASN:HB2	1.88	0.54
2:C:3236:GLU:HG3	2:C:3237:VAL:HG13	1.88	0.54
2:C:4093:ASP:OD1	2:C:4094:ILE:N	2.41	0.54
2:D:28:ILE:O	2:D:31:GLU:HG3	2.08	0.54
2:D:1006:VAL:HG22	2:D:1009:ARG:HE	1.72	0.54
2:D:3298:ARG:HA	2:D:3301:VAL:HG22	1.88	0.54
2:D:4194:GLU:HG2	2:D:4645:TRP:HZ3	1.73	0.54
2:A:798:ILE:HD12	2:A:800:VAL:HG22	1.90	0.54
2:A:1074:ARG:HH11	2:A:1078:CYS:HB3	1.73	0.54
2:A:3605:MET:HG2	2:A:3606:ALA:N	2.22	0.54
2:B:1006:VAL:HG22	2:B:1009:ARG:HE	1.73	0.54
2:A:28:ILE:O	2:A:31:GLU:HG3	2.08	0.53
2:A:76:ARG:HG2	2:D:3890:TRP:HB3	1.89	0.53
2:A:733:TRP:CE2	2:A:738:ALA:HB2	2.43	0.53
2:A:2172:MET:O	2:A:2176:VAL:HG23	2.08	0.53
2:A:2521:CYS:HA	2:A:2525:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3217:GLU:O	2:A:3221:LEU:HG	2.08	0.53
2:B:798:ILE:HD12	2:B:800:VAL:HG22	1.90	0.53
2:B:1839:LEU:HD12	2:B:1842:ILE:HD11	1.90	0.53
2:B:2550:HIS:CD2	2:B:2591:ARG:HD2	2.43	0.53
2:B:2773:TRP:NE1	2:B:2777:GLU:OE2	2.42	0.53
2:C:2629:ASN:OD1	2:C:2630:PHE:N	2.41	0.53
2:C:3249:TRP:HB3	2:C:3266:THR:HG21	1.89	0.53
2:D:3892:TYR:OH	2:D:3899:ASP:OD1	2.19	0.53
2:D:4641:PRO:HB2	2:D:4647:LYS:HD2	1.90	0.53
1:G:19:LYS:HZ1	1:G:52:GLY:HA3	1.71	0.53
2:A:1029:ASN:C	2:A:1031:ARG:H	2.15	0.53
2:A:2406:MET:HA	2:A:2409:ILE:HG22	1.90	0.53
2:A:2981:TYR:O	2:A:2984:SER:OG	2.26	0.53
2:B:3127:GLN:HB2	2:B:3183:ILE:HD12	1.90	0.53
2:B:4093:ASP:OD1	2:B:4094:ILE:N	2.41	0.53
2:B:4641:PRO:HB2	2:B:4647:LYS:HD2	1.90	0.53
2:C:3227:ARG:HB3	2:C:3230:GLN:OE1	2.08	0.53
2:D:23:GLN:HB3	2:D:34:LYS:HD2	1.90	0.53
2:D:798:ILE:HD12	2:D:800:VAL:HG22	1.90	0.53
2:D:2773:TRP:NE1	2:D:2777:GLU:OE2	2.42	0.53
2:D:2893:LEU:O	2:D:2896:LEU:HB3	2.08	0.53
2:D:4093:ASP:OD1	2:D:4094:ILE:N	2.41	0.53
2:A:2629:ASN:OD1	2:A:2630:PHE:N	2.41	0.53
2:A:2681:MET:HE1	2:A:2917:ILE:HA	1.89	0.53
2:A:3292:GLU:HB2	2:A:3296:MET:HG2	1.90	0.53
2:A:4194:GLU:HG2	2:A:4645:TRP:HZ3	1.73	0.53
2:B:3217:GLU:O	2:B:3221:LEU:HG	2.08	0.53
2:B:3292:GLU:HB2	2:B:3296:MET:HG2	1.90	0.53
2:C:798:ILE:HD12	2:C:800:VAL:HG22	1.90	0.53
2:D:2642:ARG:NE	2:D:2682:GLU:OE1	2.40	0.53
2:D:4023:LEU:HD12	2:D:4026:LEU:HD23	1.91	0.53
1:E:8:ILE:HA	2:A:730:LEU:HD11	1.89	0.53
1:F:8:ILE:HA	2:B:730:LEU:HD11	1.90	0.53
2:A:49:LEU:HD11	2:A:203:VAL:HB	1.90	0.53
2:B:1299:ILE:HD11	2:B:1544:PHE:HB3	1.91	0.53
2:B:2521:CYS:HA	2:B:2525:LEU:HD12	1.90	0.53
2:C:257:ARG:HH21	2:C:272:ARG:HG3	1.73	0.53
2:C:801:ARG:HG2	2:C:1618:LEU:HA	1.89	0.53
2:C:2550:HIS:CD2	2:C:2591:ARG:HD2	2.43	0.53
2:C:4241:VAL:HG13	2:D:4626:ILE:HG12	1.89	0.53
2:D:2621:TYR:OH	2:D:2637:GLU:OE2	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2981:TYR:O	2:D:2984:SER:OG	2.26	0.53
1:G:8:ILE:HA	2:C:730:LEU:HD11	1.89	0.53
2:A:1299:ILE:HD11	2:A:1544:PHE:HB3	1.91	0.53
2:A:2621:TYR:OH	2:A:2637:GLU:OE2	2.21	0.53
2:A:2773:TRP:NE1	2:A:2777:GLU:OE2	2.42	0.53
2:A:4093:ASP:OD1	2:A:4094:ILE:N	2.41	0.53
2:B:46:LEU:HD23	2:B:137:ARG:HH21	1.72	0.53
2:B:1074:ARG:HH11	2:B:1078:CYS:HB3	1.73	0.53
2:B:2629:ASN:OD1	2:B:2630:PHE:N	2.41	0.53
2:C:3043:ARG:HG3	2:C:3047:LYS:NZ	2.24	0.53
2:C:3127:GLN:HB2	2:C:3183:ILE:HD12	1.90	0.53
2:C:4268:MET:O	2:C:4272:LYS:HG2	2.07	0.53
2:D:733:TRP:CE2	2:D:738:ALA:HB2	2.44	0.53
2:D:801:ARG:HG2	2:D:1618:LEU:HA	1.90	0.53
2:D:967:PRO:O	2:D:971:GLN:N	2.40	0.53
2:D:987:LYS:HZ3	2:D:989:THR:HG22	1.72	0.53
2:D:1006:VAL:HA	2:D:1009:ARG:HG2	1.89	0.53
2:D:2828:MET:SD	2:D:2894:LYS:HB3	2.49	0.53
2:D:3043:ARG:HG3	2:D:3047:LYS:NZ	2.24	0.53
2:D:3605:MET:HG2	2:D:3606:ALA:N	2.22	0.53
2:A:2894:LYS:O	2:A:2898:ILE:HG13	2.08	0.53
2:A:3043:ARG:HG3	2:A:3047:LYS:NZ	2.24	0.53
2:B:257:ARG:HH21	2:B:272:ARG:HG3	1.73	0.53
2:B:2830:ASN:HD21	2:C:1549:SER:HB2	1.72	0.53
2:B:2833:LEU:HB3	2:B:2838[A]:HIS:CE1	2.43	0.53
2:B:4642:ASN:HD22	2:B:4705:TYR:HE2	1.57	0.53
2:C:4023:LEU:HD12	2:C:4026:LEU:HD23	1.91	0.53
2:D:2211:GLN:NE2	2:D:2248:MET:O	2.35	0.53
2:D:2629:ASN:OD1	2:D:2630:PHE:N	2.41	0.53
2:A:2828:MET:SD	2:A:2894:LYS:HB3	2.48	0.53
2:B:658:ASN:ND2	2:B:833:LYS:HG2	2.24	0.53
2:B:893:TRP:CZ2	2:B:1049:SER:HB3	2.44	0.53
2:B:3117:PHE:HB3	2:B:3121:LEU:HD13	1.91	0.53
2:C:1299:ILE:HD11	2:C:1544:PHE:HB3	1.91	0.53
2:C:2071:GLN:CD	2:C:3648:GLY:HA3	2.34	0.53
2:D:1299:ILE:HD11	2:D:1544:PHE:HB3	1.91	0.53
2:D:2071:GLN:CD	2:D:3648:GLY:HA3	2.34	0.53
2:A:66:THR:HG1	2:A:124:SER:HG	1.57	0.53
2:A:670:TYR:O	2:A:673:TRP:NE1	2.42	0.53
2:A:2071:GLN:CD	2:A:3648:GLY:HA3	2.34	0.53
2:B:49:LEU:HD11	2:B:203:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:943:LEU:HD21	2:B:1064:LEU:HD21	1.90	0.53
2:B:2828:MET:SD	2:B:2894:LYS:HB3	2.49	0.53
2:B:3043:ARG:HG3	2:B:3047:LYS:NZ	2.24	0.53
2:C:232:ASP:OD1	2:C:356:TYR:OH	2.22	0.53
2:C:893:TRP:CZ2	2:C:1049:SER:HB3	2.44	0.53
2:D:2413:LYS:HZ2	2:D:2415:GLU:HB3	1.73	0.53
2:A:943:LEU:HD21	2:A:1064:LEU:HD21	1.90	0.53
2:A:2413:LYS:HZ2	2:A:2415:GLU:HB3	1.74	0.53
2:A:3043:ARG:HG3	2:A:3047:LYS:HZ2	1.74	0.53
2:C:670:TYR:O	2:C:673:TRP:NE1	2.42	0.53
2:C:878:LEU:HA	2:C:881:ILE:HG22	1.91	0.53
2:C:1839:LEU:HD12	2:C:1842:ILE:HD11	1.90	0.53
2:C:2445:ILE:HA	2:C:2451:VAL:HA	1.91	0.53
2:C:2773:TRP:NE1	2:C:2777:GLU:OE2	2.42	0.53
2:D:893:TRP:CZ2	2:D:1049:SER:HB3	2.44	0.53
2:D:3227:ARG:HB3	2:D:3230:GLN:OE1	2.08	0.53
2:A:801:ARG:HG2	2:A:1618:LEU:HA	1.90	0.53
2:A:3117:PHE:HB3	2:A:3121:LEU:HD13	1.91	0.53
2:A:4642:ASN:HD22	2:A:4705:TYR:HE2	1.57	0.53
2:B:801:ARG:HG2	2:B:1618:LEU:HA	1.90	0.53
2:B:992:GLN:O	2:B:996:VAL:HG23	2.09	0.53
2:B:4042:VAL:HG12	2:B:4077:THR:HB	1.91	0.53
2:C:1270:VAL:HG22	2:C:1285:VAL:HG22	1.91	0.53
2:C:2211:GLN:NE2	2:C:2248:MET:O	2.35	0.53
2:C:3117:PHE:HB3	2:C:3121:LEU:HD13	1.91	0.53
2:C:3729:ALA:HA	2:C:3732:HIS:CE1	2.44	0.53
2:C:4642:ASN:HD22	2:C:4705:TYR:HE2	1.57	0.53
2:D:670:TYR:O	2:D:673:TRP:NE1	2.42	0.53
2:A:658:ASN:ND2	2:A:833:LYS:HG2	2.24	0.52
2:A:1004:HIS:NE2	2:A:1033:VAL:O	2.25	0.52
2:A:2833:LEU:HB3	2:A:2838[A]:HIS:CE1	2.43	0.52
2:A:3712:LYS:O	2:A:3717:LYS:NZ	2.42	0.52
2:B:674:TYR:CE1	2:B:756:SER:HB2	2.45	0.52
2:B:1097:LYS:NZ	2:B:1198:GLY:O	2.42	0.52
2:B:2620:TYR:HB2	2:B:2627:TRP:CD1	2.44	0.52
2:B:2933:VAL:HG21	2:B:3007:LEU:HD11	1.91	0.52
2:B:2940:ILE:HA	2:B:2943:PHE:HB3	1.92	0.52
2:B:4023:LEU:HD12	2:B:4026:LEU:HD23	1.91	0.52
2:C:23:GLN:HB3	2:C:34:LYS:HD2	1.90	0.52
2:C:2521:CYS:HA	2:C:2525:LEU:HD12	1.90	0.52
2:D:878:LEU:HA	2:D:881:ILE:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:992:GLN:O	2:D:996:VAL:HG23	2.09	0.52
2:D:4617:ILE:HG23	2:D:4665:ARG:HH22	1.74	0.52
1:F:88:HIS:NE2	2:B:1776:TYR:OH	2.33	0.52
1:G:22:THR:HG22	1:G:50:ARG:HG2	1.89	0.52
2:A:992:GLN:O	2:A:996:VAL:HG23	2.09	0.52
2:A:1270:VAL:HG22	2:A:1285:VAL:HG22	1.91	0.52
2:A:1682:GLU:HG2	2:A:1683:PRO:HD3	1.92	0.52
2:A:2409:ILE:HD11	2:A:2417:ILE:HD13	1.91	0.52
2:A:2933:VAL:HG21	2:A:3007:LEU:HD11	1.91	0.52
2:A:3127:GLN:HB2	2:A:3183:ILE:HD12	1.91	0.52
2:A:4042:VAL:HG12	2:A:4077:THR:HB	1.91	0.52
2:A:4045:LYS:HB3	2:A:4046:ARG:HH21	1.73	0.52
2:B:987:LYS:HZ3	2:B:989:THR:HA	1.74	0.52
2:C:897:LYS:HB3	2:C:918:LEU:CD2	2.40	0.52
2:C:943:LEU:HD21	2:C:1064:LEU:HD21	1.90	0.52
2:C:1097:LYS:NZ	2:C:1198:GLY:O	2.42	0.52
2:C:4617:ILE:HG23	2:C:4665:ARG:HH22	1.74	0.52
2:D:1097:LYS:NZ	2:D:1198:GLY:O	2.42	0.52
2:D:3001:LYS:HZ1	2:D:3044:THR:H	1.56	0.52
2:D:3117:PHE:HB3	2:D:3121:LEU:HD13	1.91	0.52
2:A:674:TYR:CE1	2:A:756:SER:HB2	2.45	0.52
2:A:4043:ILE:O	2:A:4078:LEU:N	2.31	0.52
2:B:897:LYS:HD3	2:B:918:LEU:HG	1.92	0.52
2:B:2071:GLN:CD	2:B:3648:GLY:HA3	2.34	0.52
2:B:2409:ILE:HD11	2:B:2417:ILE:HD13	1.91	0.52
2:B:2826:ILE:HD13	2:B:2898:ILE:HD13	1.92	0.52
2:B:3050:LEU:HD23	2:B:3053:VAL:HG23	1.91	0.52
2:B:3729:ALA:HA	2:B:3732:HIS:CE1	2.44	0.52
2:C:733:TRP:CE2	2:C:738:ALA:HB2	2.43	0.52
2:C:992:GLN:O	2:C:996:VAL:HG23	2.10	0.52
2:C:1006:VAL:HA	2:C:1009:ARG:HG2	1.89	0.52
2:C:2620:TYR:HB2	2:C:2627:TRP:CD1	2.44	0.52
2:D:1074:ARG:HH11	2:D:1078:CYS:HB3	1.73	0.52
2:D:1440:ASN:HB3	2:D:1546:GLN:HB3	1.89	0.52
2:D:2521:CYS:HA	2:D:2525:LEU:HD12	1.90	0.52
2:D:3050:LEU:HD23	2:D:3053:VAL:HG23	1.91	0.52
2:A:188:SER:HB2	2:A:190:ARG:HH11	1.75	0.52
2:A:897:LYS:HD3	2:A:918:LEU:HG	1.92	0.52
2:A:2940:ILE:HA	2:A:2943:PHE:HB3	1.92	0.52
2:A:3227:ARG:HB3	2:A:3230:GLN:OE1	2.08	0.52
2:A:4023:LEU:HD12	2:A:4026:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:878:LEU:HA	2:B:881:ILE:HG22	1.91	0.52
2:B:2621:TYR:OH	2:B:2637:GLU:OE2	2.21	0.52
2:B:4194:GLU:HG2	2:B:4645:TRP:HZ3	1.73	0.52
2:C:2791:ARG:NH2	2:C:2795:GLY:O	2.42	0.52
2:C:2981:TYR:O	2:C:2984:SER:OG	2.26	0.52
2:D:658:ASN:HD21	2:D:833:LYS:HG2	1.75	0.52
2:D:897:LYS:HD3	2:D:918:LEU:HG	1.92	0.52
2:A:257:ARG:HH21	2:A:272:ARG:HG3	1.73	0.52
2:A:1097:LYS:NZ	2:A:1198:GLY:O	2.42	0.52
2:A:1722:ASN:O	2:A:1919:ARG:NH2	2.43	0.52
2:A:3013:VAL:O	2:A:3018:ARG:NH2	2.43	0.52
2:B:733:TRP:CE2	2:B:738:ALA:HB2	2.43	0.52
2:B:1682:GLU:HG2	2:B:1683:PRO:HD3	1.92	0.52
2:B:2788:ARG:HH22	2:B:2908:LYS:HE2	1.75	0.52
2:C:821:PRO:HB2	2:C:823:TYR:CE1	2.45	0.52
2:C:2826:ILE:HD13	2:C:2898:ILE:HD13	1.91	0.52
2:C:2828:MET:SD	2:C:2894:LYS:HB3	2.49	0.52
2:D:1029:ASN:C	2:D:1031:ARG:H	2.15	0.52
2:D:3292:GLU:HB2	2:D:3296:MET:HG2	1.90	0.52
2:D:4275:THR:HG22	2:D:4278:ASP:H	1.74	0.52
2:A:541:ILE:HD11	2:A:574:VAL:HG13	1.92	0.52
2:B:658:ASN:HD21	2:B:833:LYS:HG2	1.75	0.52
2:B:2689:MET:HE2	2:B:2689:MET:N	2.25	0.52
2:C:663:VAL:HA	2:C:671:LYS:HZ3	1.74	0.52
2:C:987:LYS:HZ3	2:C:989:THR:HA	1.75	0.52
2:C:1682:GLU:HG2	2:C:1683:PRO:HD3	1.92	0.52
2:D:1682:GLU:HG2	2:D:1683:PRO:HD3	1.92	0.52
2:D:2445:ILE:HA	2:D:2451:VAL:HA	1.91	0.52
2:D:2940:ILE:HA	2:D:2943:PHE:HB3	1.92	0.52
2:D:3127:GLN:HB2	2:D:3183:ILE:HD12	1.90	0.52
2:D:4642:ASN:HD22	2:D:4705:TYR:HE2	1.57	0.52
2:A:3140:LEU:O	2:A:3152:ARG:NH2	2.43	0.52
2:A:3729:ALA:HA	2:A:3732:HIS:CE1	2.44	0.52
2:B:1722:ASN:O	2:B:1919:ARG:NH2	2.43	0.52
2:B:3013:VAL:O	2:B:3018:ARG:NH2	2.43	0.52
2:C:2689:MET:HE2	2:C:2689:MET:N	2.25	0.52
2:C:2830:ASN:HD21	2:D:1549:SER:HB2	1.72	0.52
2:C:3217:GLU:O	2:C:3221:LEU:HG	2.08	0.52
2:C:3292:GLU:HB2	2:C:3296:MET:HG2	1.90	0.52
2:C:4275:THR:HG22	2:C:4278:ASP:H	1.74	0.52
2:D:2788:ARG:HH22	2:D:2908:LYS:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:881:ILE:HG23	2:A:885:LEU:HD13	1.92	0.52
2:A:2212:LYS:HG2	2:A:2253:LEU:HD21	1.92	0.52
2:A:2620:TYR:HB2	2:A:2627:TRP:CD1	2.44	0.52
2:A:3050:LEU:HD23	2:A:3053:VAL:HG23	1.91	0.52
2:B:23:GLN:HB3	2:B:34:LYS:HD2	1.90	0.52
2:B:670:TYR:O	2:B:673:TRP:NE1	2.42	0.52
2:B:897:LYS:HB3	2:B:918:LEU:CD2	2.40	0.52
2:B:2833:LEU:HB2	2:B:2894:LYS:NZ	2.22	0.52
2:B:4617:ILE:HG23	2:B:4665:ARG:HH22	1.74	0.52
2:C:674:TYR:CE1	2:C:756:SER:HB2	2.45	0.52
2:C:1722:ASN:O	2:C:1919:ARG:NH2	2.43	0.52
2:C:2087:LEU:O	2:C:2091:GLN:HG2	2.10	0.52
2:C:3282:LYS:HA	2:C:3285:TYR:CD2	2.45	0.52
2:C:4610:LEU:HD21	2:C:4670:LEU:HD21	1.92	0.52
2:D:821:PRO:HB2	2:D:823:TYR:CE1	2.45	0.52
2:D:897:LYS:HB3	2:D:918:LEU:CD2	2.40	0.52
2:D:1839:LEU:HD12	2:D:1842:ILE:HD11	1.90	0.52
2:D:2212:LYS:HG2	2:D:2253:LEU:HD21	1.92	0.52
2:A:2689:MET:HE2	2:A:2689:MET:N	2.25	0.52
2:A:3282:LYS:HA	2:A:3285:TYR:CD2	2.45	0.52
2:A:3882:GLN:NE2	2:A:3946:GLY:HA3	2.25	0.52
2:A:3890:TRP:HB3	2:B:76:ARG:HG2	1.92	0.52
2:B:188:SER:HB2	2:B:190:ARG:HH11	1.75	0.52
2:B:541:ILE:HD11	2:B:574:VAL:HG13	1.92	0.52
2:B:1270:VAL:HG22	2:B:1285:VAL:HG22	1.91	0.52
2:B:3140:LEU:O	2:B:3152:ARG:NH2	2.43	0.52
2:B:3282:LYS:HA	2:B:3285:TYR:CD2	2.45	0.52
2:C:49:LEU:HD11	2:C:203:VAL:HB	1.90	0.52
2:C:677:LEU:HD11	2:C:800:VAL:HB	1.92	0.52
2:C:3140:LEU:O	2:C:3152:ARG:NH2	2.43	0.52
2:C:3712:LYS:O	2:C:3717:LYS:NZ	2.42	0.52
2:D:257:ARG:HH21	2:D:272:ARG:HG3	1.73	0.52
2:D:674:TYR:CE1	2:D:756:SER:HB2	2.45	0.52
2:D:677:LEU:HD11	2:D:800:VAL:HB	1.92	0.52
2:D:881:ILE:HG23	2:D:885:LEU:HD13	1.92	0.52
2:D:2620:TYR:HB2	2:D:2627:TRP:CD1	2.45	0.52
2:D:3013:VAL:O	2:D:3018:ARG:NH2	2.43	0.52
2:D:3140:LEU:O	2:D:3152:ARG:NH2	2.43	0.52
2:A:987:LYS:HZ3	2:A:989:THR:HA	1.75	0.52
2:A:3101:LEU:HA	2:A:3104:MET:HG2	1.92	0.52
2:B:4610:LEU:HD21	2:B:4670:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1689:ILE:HD13	2:C:1703:TYR:CE1	2.45	0.52
2:C:3050:LEU:HD23	2:C:3053:VAL:HG23	1.91	0.52
2:D:232:ASP:OD2	2:D:233:VAL:N	2.43	0.52
2:D:1270:VAL:HG22	2:D:1285:VAL:HG22	1.91	0.52
2:D:2087:LEU:O	2:D:2091:GLN:HG2	2.10	0.52
2:D:2689:MET:HE2	2:D:2689:MET:N	2.25	0.52
2:D:2933:VAL:HG21	2:D:3007:LEU:HD11	1.91	0.52
2:D:4042:VAL:HG12	2:D:4077:THR:HB	1.91	0.52
1:H:8:ILE:HA	2:D:730:LEU:HD11	1.91	0.51
2:A:878:LEU:HA	2:A:881:ILE:HG22	1.91	0.51
2:A:2681:MET:HE3	2:A:2920:ARG:HG2	1.93	0.51
2:A:4241:VAL:HG13	2:B:4626:ILE:HG12	1.92	0.51
2:B:1689:ILE:HD13	2:B:1703:TYR:CE1	2.46	0.51
2:B:4275:THR:HG22	2:B:4278:ASP:H	1.74	0.51
2:C:3882:GLN:NE2	2:C:3946:GLY:HA3	2.25	0.51
2:D:188:SER:HB2	2:D:190:ARG:HH11	1.75	0.51
2:D:514:PHE:HD2	2:D:526:TRP:HB2	1.76	0.51
2:D:943:LEU:HD21	2:D:1064:LEU:HD21	1.90	0.51
2:D:1722:ASN:O	2:D:1919:ARG:NH2	2.43	0.51
2:D:3712:LYS:O	2:D:3717:LYS:NZ	2.42	0.51
2:A:514:PHE:HD2	2:A:526:TRP:HB2	1.75	0.51
2:A:2445:ILE:HA	2:A:2451:VAL:HA	1.91	0.51
2:A:2826:ILE:HD13	2:A:2898:ILE:HD13	1.91	0.51
2:B:2851:ILE:HG22	2:B:2855:LYS:NZ	2.25	0.51
2:B:3712:LYS:O	2:B:3717:LYS:NZ	2.42	0.51
2:B:3892:TYR:OH	2:B:3899:ASP:OD1	2.19	0.51
2:C:514:PHE:CD2	2:C:526:TRP:HB2	2.45	0.51
2:C:658:ASN:ND2	2:C:833:LYS:HG2	2.24	0.51
2:C:881:ILE:HG23	2:C:885:LEU:HD13	1.92	0.51
2:C:2833:LEU:HB2	2:C:2894:LYS:NZ	2.22	0.51
2:C:2851:ILE:HG22	2:C:2855:LYS:NZ	2.25	0.51
2:D:658:ASN:ND2	2:D:833:LYS:HG2	2.24	0.51
2:D:2409:ILE:HD11	2:D:2417:ILE:HD13	1.91	0.51
2:D:2681:MET:HE3	2:D:2920:ARG:HG2	1.93	0.51
2:D:2826:ILE:HD13	2:D:2898:ILE:HD13	1.91	0.51
2:D:2851:ILE:HG22	2:D:2855:LYS:NZ	2.25	0.51
2:D:3729:ALA:HA	2:D:3732:HIS:CE1	2.44	0.51
2:A:2851:ILE:HG22	2:A:2855:LYS:NZ	2.25	0.51
2:A:3261:ALA:C	2:A:3262:GLU:OE1	2.54	0.51
2:B:821:PRO:HB2	2:B:823:TYR:CE1	2.45	0.51
2:B:881:ILE:HG23	2:B:885:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1944:TYR:O	2:B:1948:MET:HG2	2.11	0.51
2:C:3013:VAL:O	2:C:3018:ARG:NH2	2.43	0.51
2:C:4197:ILE:HG12	2:C:4923:MET:HE2	1.93	0.51
2:D:49:LEU:HD11	2:D:203:VAL:HB	1.90	0.51
2:D:3217:GLU:O	2:D:3221:LEU:HG	2.08	0.51
1:G:88:HIS:NE2	2:C:1776:TYR:OH	2.33	0.51
2:A:143:LEU:HD13	2:A:207:PHE:HE2	1.76	0.51
2:A:677:LEU:HD11	2:A:800:VAL:HB	1.92	0.51
2:A:893:TRP:CZ2	2:A:1049:SER:HB3	2.44	0.51
2:A:1944:TYR:O	2:A:1948:MET:HG2	2.11	0.51
2:A:2788:ARG:HH22	2:A:2908:LYS:HE2	1.75	0.51
2:A:3097:THR:HA	2:A:3101:LEU:HB3	1.92	0.51
2:B:232:ASP:OD2	2:B:233:VAL:N	2.43	0.51
2:B:514:PHE:CD2	2:B:526:TRP:HB2	2.45	0.51
2:B:677:LEU:HD11	2:B:800:VAL:HB	1.92	0.51
2:C:658:ASN:HD21	2:C:833:LYS:HG2	1.75	0.51
2:C:2409:ILE:HD11	2:C:2417:ILE:HD13	1.91	0.51
2:C:2788:ARG:HH22	2:C:2908:LYS:HE2	1.75	0.51
2:C:4194:GLU:HG2	2:C:4645:TRP:HZ3	1.73	0.51
2:D:232:ASP:OD1	2:D:356:TYR:OH	2.21	0.51
2:D:514:PHE:CD2	2:D:526:TRP:HB2	2.46	0.51
2:A:658:ASN:HD21	2:A:833:LYS:HG2	1.75	0.51
2:A:4197:ILE:HG12	2:A:4923:MET:HE2	1.93	0.51
2:A:4896:ASP:OD1	2:A:4897:TYR:N	2.44	0.51
2:B:2445:ILE:HA	2:B:2451:VAL:HA	1.91	0.51
2:B:2681:MET:HE3	2:B:2920:ARG:HG2	1.93	0.51
2:B:4896:ASP:OD1	2:B:4897:TYR:N	2.44	0.51
2:C:162:ILE:O	2:C:163:HIS:ND1	2.43	0.51
2:C:897:LYS:HD3	2:C:918:LEU:HG	1.92	0.51
2:C:1034:PRO:HG2	2:C:1037:LEU:HD12	1.92	0.51
2:C:2621:TYR:OH	2:C:2637:GLU:OE2	2.21	0.51
2:C:2940:ILE:HA	2:C:2943:PHE:HB3	1.92	0.51
2:D:541:ILE:HD11	2:D:574:VAL:HG13	1.92	0.51
2:D:1944:TYR:O	2:D:1948:MET:HG2	2.10	0.51
2:D:2695:MET:HG2	2:D:2700:ASN:O	2.11	0.51
2:A:173:GLU:HG2	2:D:3939:ARG:NH1	2.25	0.51
2:A:1689:ILE:HD13	2:A:1703:TYR:CE1	2.46	0.51
2:B:162:ILE:O	2:B:163:HIS:ND1	2.43	0.51
2:B:3805:LEU:HD21	2:B:3891:TYR:HB2	1.92	0.51
2:C:188:SER:HB2	2:C:190:ARG:HH11	1.75	0.51
2:C:1989:PRO:HD2	2:C:1992:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4042:VAL:HG12	2:C:4077:THR:HB	1.91	0.51
2:D:4197:ILE:HG12	2:D:4923:MET:HE2	1.93	0.51
1:E:88:HIS:NE2	2:A:1776:TYR:OH	2.36	0.51
2:A:232:ASP:OD2	2:A:233:VAL:N	2.43	0.51
2:A:821:PRO:HB2	2:A:823:TYR:CE1	2.45	0.51
2:A:1016:TRP:CE3	2:A:1029:ASN:HB2	2.46	0.51
2:A:2087:LEU:O	2:A:2091:GLN:HG2	2.10	0.51
2:A:2778:SER:HA	2:A:2848:TYR:OH	2.11	0.51
2:A:4610:LEU:HD21	2:A:4670:LEU:HD21	1.92	0.51
2:A:4617:ILE:HG23	2:A:4665:ARG:HH22	1.74	0.51
2:B:916:PRO:HB3	2:B:923:LYS:HZ2	1.76	0.51
2:C:1016:TRP:CE3	2:C:1029:ASN:HB2	2.46	0.51
2:C:1944:TYR:O	2:C:1948:MET:HG2	2.10	0.51
2:C:2681:MET:HE3	2:C:2920:ARG:HG2	1.93	0.51
2:D:749:LEU:HD22	2:D:755:ILE:HD11	1.93	0.51
2:D:1004:HIS:NE2	2:D:1033:VAL:O	2.25	0.51
2:D:1989:PRO:O	2:D:1993:ARG:HG3	2.11	0.51
2:D:3101:LEU:HA	2:D:3104:MET:HG2	1.92	0.51
2:D:4896:ASP:OD1	2:D:4897:TYR:N	2.44	0.51
2:A:1989:PRO:O	2:A:1993:ARG:HG3	2.11	0.51
2:A:3068:LEU:HD12	2:A:3133:ILE:HG12	1.93	0.51
2:A:3805:LEU:HD21	2:A:3891:TYR:HB2	1.92	0.51
2:B:2212:LYS:HG2	2:B:2253:LEU:HD21	1.92	0.51
2:C:541:ILE:HD11	2:C:574:VAL:HG13	1.92	0.51
2:C:966:LEU:H	2:C:977:LYS:HD2	1.75	0.51
2:C:3069:GLU:O	2:C:3072:MET:HB2	2.11	0.51
2:D:893:TRP:CE2	2:D:1049:SER:HB3	2.46	0.51
2:A:4275:THR:HG22	2:A:4278:ASP:H	1.74	0.51
2:B:28:ILE:HD11	2:B:201:LEU:HD21	1.93	0.51
2:B:3068:LEU:HD12	2:B:3133:ILE:HG12	1.93	0.51
2:B:3261:ALA:C	2:B:3262:GLU:OE1	2.54	0.51
2:C:232:ASP:OD2	2:C:233:VAL:N	2.43	0.51
2:C:514:PHE:HD2	2:C:526:TRP:HB2	1.75	0.51
2:C:749:LEU:HD22	2:C:755:ILE:HD11	1.93	0.51
2:C:2930:ILE:HD12	2:C:3003:MET:HE3	1.92	0.51
2:C:2933:VAL:HG21	2:C:3007:LEU:HD11	1.91	0.51
2:C:3892:TYR:OH	2:C:3899:ASP:OD1	2.19	0.51
2:D:3069:GLU:O	2:D:3072:MET:HB2	2.11	0.51
2:D:4610:LEU:HD21	2:D:4670:LEU:HD21	1.92	0.51
2:A:514:PHE:CD2	2:A:526:TRP:HB2	2.45	0.51
2:A:893:TRP:CE2	2:A:1049:SER:HB3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1435:GLY:CA	2:D:2831:VAL:HG22	2.41	0.51
2:A:3068:LEU:O	2:A:3071:THR:OG1	2.25	0.51
2:A:3697:LYS:HA	2:A:3700:HIS:CD2	2.46	0.51
2:B:514:PHE:HD2	2:B:526:TRP:HB2	1.75	0.51
2:B:658:ASN:ND2	2:B:831:LYS:O	2.44	0.51
2:B:967:PRO:O	2:B:971:GLN:N	2.40	0.51
2:B:2087:LEU:O	2:B:2091:GLN:HG2	2.10	0.51
2:B:3097:THR:HA	2:B:3101:LEU:HB3	1.92	0.51
2:B:4197:ILE:HG12	2:B:4923:MET:HE2	1.93	0.51
2:C:1989:PRO:O	2:C:1993:ARG:HG3	2.11	0.51
2:C:3261:ALA:C	2:C:3262:GLU:OE1	2.54	0.51
2:C:3846:LEU:HB3	2:C:3854:PHE:CE2	2.46	0.51
2:D:28:ILE:HD11	2:D:201:LEU:HD21	1.93	0.51
2:D:3882:GLN:NE2	2:D:3946:GLY:HA3	2.25	0.51
2:A:162:ILE:O	2:A:163:HIS:ND1	2.43	0.50
2:A:967:PRO:O	2:A:971:GLN:N	2.40	0.50
2:A:2322:ARG:NH1	2:B:189:GLU:OE2	2.44	0.50
2:A:2695:MET:HG2	2:A:2700:ASN:O	2.11	0.50
2:A:2930:ILE:HD12	2:A:3003:MET:HE3	1.92	0.50
2:A:3069:GLU:O	2:A:3072:MET:HB2	2.11	0.50
2:B:749:LEU:HD22	2:B:755:ILE:HD11	1.93	0.50
2:C:1717:ALA:HA	2:C:1720:MET:HE2	1.94	0.50
2:C:2214:MET:HE2	2:C:2242:VAL:CG1	2.41	0.50
2:D:658:ASN:ND2	2:D:831:LYS:O	2.44	0.50
2:D:3282:LYS:HA	2:D:3285:TYR:CD2	2.45	0.50
2:A:28:ILE:HD11	2:A:201:LEU:HD21	1.93	0.50
2:A:749:LEU:HD22	2:A:755:ILE:HD11	1.93	0.50
2:A:897:LYS:HB3	2:A:918:LEU:CD2	2.40	0.50
2:A:966:LEU:H	2:A:977:LYS:HD2	1.76	0.50
2:A:1034:PRO:HG2	2:A:1037:LEU:HD12	1.92	0.50
2:A:1608:VAL:HG12	2:A:1619:VAL:HG22	1.94	0.50
2:A:3846:LEU:HB3	2:A:3854:PHE:CE2	2.47	0.50
2:B:143:LEU:HD13	2:B:207:PHE:HE2	1.76	0.50
2:B:893:TRP:CE2	2:B:1049:SER:HB3	2.46	0.50
2:B:1016:TRP:CE3	2:B:1029:ASN:HB2	2.46	0.50
2:C:28:ILE:HD11	2:C:201:LEU:HD21	1.93	0.50
2:C:658:ASN:ND2	2:C:831:LYS:O	2.44	0.50
2:C:2695:MET:HG2	2:C:2700:ASN:O	2.11	0.50
2:C:4751:LYS:HG3	2:C:4754:ARG:NH1	2.27	0.50
2:D:728:ASP:OD2	2:D:731:HIS:HB2	2.12	0.50
2:D:1016:TRP:CD1	2:D:1027:ARG:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1016:TRP:CE3	2:D:1029:ASN:HB2	2.46	0.50
2:D:1564:MET:HG3	2:D:1565:PRO:HD2	1.93	0.50
2:D:1689:ILE:HD13	2:D:1703:TYR:CE1	2.45	0.50
2:D:3268:LEU:HG	2:D:3273:MET:HE3	1.94	0.50
2:A:625:VAL:HG23	2:A:628:ASN:HB2	1.93	0.50
2:A:1564:MET:HG3	2:A:1565:PRO:HD2	1.93	0.50
2:A:2791:ARG:NH2	2:A:2795:GLY:O	2.42	0.50
2:B:981:MET:HG2	2:B:986:ILE:HD11	1.93	0.50
2:B:1034:PRO:HG2	2:B:1037:LEU:HD12	1.92	0.50
2:B:3101:LEU:HA	2:B:3104:MET:HG2	1.92	0.50
2:C:893:TRP:CE2	2:C:1049:SER:HB3	2.46	0.50
2:C:1016:TRP:CD1	2:C:1027:ARG:HB3	2.46	0.50
2:C:3068:LEU:O	2:C:3071:THR:OG1	2.25	0.50
2:C:4177:VAL:HG11	2:C:4880:VAL:HA	1.94	0.50
2:D:162:ILE:O	2:D:163:HIS:ND1	2.43	0.50
2:D:966:LEU:H	2:D:977:LYS:HD2	1.75	0.50
2:D:2759:PRO:HD2	2:D:2762:LEU:HD22	1.94	0.50
2:D:3097:THR:HA	2:D:3101:LEU:HB3	1.92	0.50
2:B:1016:TRP:CD1	2:B:1027:ARG:HB3	2.46	0.50
2:B:2930:ILE:HD12	2:B:3003:MET:HE3	1.92	0.50
2:B:3846:LEU:HB3	2:B:3854:PHE:CE2	2.47	0.50
2:D:2214:MET:HE2	2:D:2242:VAL:CG1	2.41	0.50
2:D:3261:ALA:C	2:D:3262:GLU:OE1	2.54	0.50
2:D:3697:LYS:HA	2:D:3700:HIS:CD2	2.47	0.50
2:D:4254:THR:HA	2:D:4257:ARG:HE	1.77	0.50
2:D:4751:LYS:HG3	2:D:4754:ARG:NH1	2.27	0.50
2:B:2778:SER:HA	2:B:2848:TYR:OH	2.11	0.50
2:B:3697:LYS:HA	2:B:3700:HIS:CD2	2.46	0.50
2:C:2212:LYS:HG2	2:C:2253:LEU:HD21	1.92	0.50
2:C:2791:ARG:NH1	2:C:2901:TYR:OH	2.45	0.50
2:C:3805:LEU:HD21	2:C:3891:TYR:HB2	1.92	0.50
2:D:897:LYS:HB3	2:D:918:LEU:HD23	1.93	0.50
2:D:1989:PRO:HD2	2:D:1992:ILE:HD12	1.92	0.50
2:A:942:THR:HG21	2:A:1002:ASN:HD22	1.77	0.50
2:A:981:MET:HG2	2:A:986:ILE:HD11	1.93	0.50
2:A:1019:GLY:O	2:A:1030:PRO:HB3	2.12	0.50
2:B:625:VAL:HG23	2:B:628:ASN:HB2	1.94	0.50
2:B:1564:MET:HG3	2:B:1565:PRO:HD2	1.93	0.50
2:B:1989:PRO:O	2:B:1993:ARG:HG3	2.11	0.50
2:C:728:ASP:OD2	2:C:731:HIS:HB2	2.12	0.50
2:C:897:LYS:HB3	2:C:918:LEU:HD23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1287:GLN:NE2	2:C:1295:SER:OG	2.45	0.50
2:C:3101:LEU:HA	2:C:3104:MET:HG2	1.92	0.50
2:D:143:LEU:HD13	2:D:207:PHE:HE2	1.76	0.50
2:D:1034:PRO:HG2	2:D:1037:LEU:HD12	1.92	0.50
2:D:1287:GLN:NE2	2:D:1295:SER:OG	2.45	0.50
2:D:1552:VAL:HG12	2:D:1553:PHE:HD1	1.77	0.50
2:D:2791:ARG:NH1	2:D:2901:TYR:OH	2.45	0.50
1:G:19:LYS:HZ3	1:G:52:GLY:HA3	1.76	0.50
2:B:1717:ALA:HA	2:B:1720:MET:HE2	1.94	0.50
2:B:1989:PRO:HD2	2:B:1992:ILE:HD12	1.92	0.50
2:B:3296:MET:HE1	2:B:3334:VAL:HG11	1.94	0.50
2:B:3882:GLN:NE2	2:B:3946:GLY:HA3	2.25	0.50
2:C:3097:THR:HA	2:C:3101:LEU:HB3	1.92	0.50
2:D:1019:GLY:O	2:D:1030:PRO:HB3	2.12	0.50
2:D:3284:ILE:HA	2:D:3287:ASN:HD22	1.76	0.50
2:D:3989:ASN:HB3	2:D:4108:HIS:CD2	2.47	0.50
2:A:897:LYS:CB	2:A:918:LEU:HD23	2.42	0.50
2:A:2791:ARG:NH1	2:A:2901:TYR:OH	2.45	0.50
2:A:4252:ILE:HG21	2:B:4707:MET:HG3	1.94	0.50
2:B:942:THR:HG21	2:B:1002:ASN:HD22	1.77	0.50
2:B:2706:VAL:HG23	2:B:2847:ASN:HD21	1.77	0.50
2:B:2791:ARG:NH1	2:B:2901:TYR:OH	2.45	0.50
2:B:3034:HIS:CE1	2:B:3107:SER:HB2	2.47	0.50
2:B:3069:GLU:O	2:B:3072:MET:HB2	2.11	0.50
2:B:3284:ILE:HA	2:B:3287:ASN:HD22	1.76	0.50
2:B:3989:ASN:HB3	2:B:4108:HIS:CD2	2.47	0.50
2:C:143:LEU:HD13	2:C:207:PHE:HE2	1.76	0.50
2:C:2478:ILE:HG21	2:C:2484:LEU:HD13	1.94	0.50
2:C:3296:MET:HE1	2:C:3334:VAL:HG11	1.94	0.50
2:D:4177:VAL:HG11	2:D:4880:VAL:HA	1.94	0.50
2:A:271:ALA:O	2:A:301:THR:OG1	2.30	0.50
2:A:1989:PRO:HD2	2:A:1992:ILE:HD12	1.92	0.50
2:B:537:LEU:O	2:B:541:ILE:HG12	2.12	0.50
2:B:1608:VAL:HG12	2:B:1619:VAL:HG22	1.94	0.50
2:B:1954:SER:HB3	2:B:1957:LEU:HB2	1.94	0.50
2:B:2478:ILE:HG21	2:B:2484:LEU:HD13	1.94	0.50
2:B:2791:ARG:NH2	2:B:2795:GLY:O	2.42	0.50
2:C:537:LEU:O	2:C:541:ILE:HG12	2.12	0.50
2:C:2759:PRO:HD2	2:C:2762:LEU:HD22	1.94	0.50
2:C:2766:LYS:HA	2:C:2766:LYS:HE2	1.94	0.50
2:D:897:LYS:CB	2:D:918:LEU:HD23	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:981:MET:HG2	2:D:986:ILE:HD11	1.93	0.50
2:D:1608:VAL:HG12	2:D:1619:VAL:HG22	1.94	0.50
2:D:2766:LYS:HE2	2:D:2766:LYS:HA	1.94	0.50
2:A:1018:TYR:CE1	2:A:1030:PRO:HA	2.47	0.49
2:A:1975:MET:HA	2:A:1978:ASN:HD22	1.77	0.49
2:A:2214:MET:HE2	2:A:2242:VAL:CG1	2.41	0.49
2:A:3284:ILE:HA	2:A:3287:ASN:HD22	1.76	0.49
2:A:3319:PHE:O	2:A:3323:MET:HE2	2.12	0.49
2:B:514:PHE:CE2	2:B:522:ALA:HB1	2.47	0.49
2:B:953:SER:OG	2:B:1063:ASN:OD1	2.30	0.49
2:B:1011:ARG:O	2:B:1014:GLN:HB2	2.12	0.49
2:C:1018:TYR:CE1	2:C:1030:PRO:HA	2.47	0.49
2:C:3697:LYS:HA	2:C:3700:HIS:CD2	2.46	0.49
2:D:953:SER:OG	2:D:1063:ASN:OD1	2.30	0.49
2:D:1011:ARG:O	2:D:1014:GLN:HB2	2.12	0.49
2:D:2930:ILE:HD12	2:D:3003:MET:HE3	1.92	0.49
2:A:4689:LYS:HE3	2:A:4696:ALA:HB2	1.94	0.49
2:B:271:ALA:O	2:B:301:THR:OG1	2.30	0.49
2:B:897:LYS:CB	2:B:918:LEU:HD23	2.42	0.49
2:B:1975:MET:HA	2:B:1978:ASN:HD22	1.77	0.49
2:B:2214:MET:HE2	2:B:2242:VAL:CG1	2.41	0.49
2:B:2759:PRO:HD2	2:B:2762:LEU:HD22	1.94	0.49
2:C:942:THR:HG21	2:C:1002:ASN:HD22	1.77	0.49
2:C:2706:VAL:HG23	2:C:2847:ASN:HD21	1.77	0.49
2:D:1717:ALA:HA	2:D:1720:MET:HE2	1.94	0.49
2:D:2778:SER:HA	2:D:2848:TYR:OH	2.11	0.49
2:D:4689:LYS:HE3	2:D:4696:ALA:HB2	1.94	0.49
2:A:537:LEU:O	2:A:541:ILE:HG12	2.12	0.49
2:A:728:ASP:OD2	2:A:731:HIS:HB2	2.12	0.49
2:A:1011:ARG:O	2:A:1014:GLN:HB2	2.12	0.49
2:A:1287:GLN:NE2	2:A:1295:SER:OG	2.45	0.49
2:A:2211:GLN:NE2	2:A:2248:MET:O	2.35	0.49
2:A:2478:ILE:HG21	2:A:2484:LEU:HD13	1.94	0.49
2:A:2704:GLN:HA	2:A:2854:LYS:HE2	1.94	0.49
2:A:3989:ASN:HB3	2:A:4108:HIS:CD2	2.47	0.49
2:B:2447:LYS:HD2	2:B:2864:GLY:HA3	1.95	0.49
2:B:2591:ARG:HH22	2:B:2875:ASP:HB3	1.78	0.49
2:B:2766:LYS:HE2	2:B:2766:LYS:HA	1.94	0.49
2:C:981:MET:HG2	2:C:986:ILE:HD11	1.93	0.49
2:C:1011:ARG:O	2:C:1014:GLN:HB2	2.12	0.49
2:C:1552:VAL:HG12	2:C:1553:PHE:HD1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1681:ASP:HB3	2:C:1683:PRO:HD2	1.94	0.49
2:C:1963:LYS:O	2:C:1967:SER:OG	2.27	0.49
2:C:2778:SER:HA	2:C:2848:TYR:OH	2.11	0.49
2:C:3068:LEU:HD12	2:C:3133:ILE:HG12	1.93	0.49
2:C:3268:LEU:HG	2:C:3273:MET:HE3	1.94	0.49
2:C:3989:ASN:HB3	2:C:4108:HIS:CD2	2.47	0.49
2:C:4697:VAL:O	2:C:4701:ILE:HG12	2.12	0.49
2:C:4896:ASP:OD1	2:C:4897:TYR:N	2.44	0.49
2:D:1415:ASP:HB3	2:D:1561:LYS:HD2	1.94	0.49
2:D:2791:ARG:HD3	2:D:2901:TYR:CE1	2.47	0.49
1:E:8:ILE:HG23	2:A:748:LEU:HB2	1.94	0.49
2:A:514:PHE:CE2	2:A:522:ALA:HB1	2.47	0.49
2:A:658:ASN:ND2	2:A:831:LYS:O	2.44	0.49
2:A:2759:PRO:HD2	2:A:2762:LEU:HD22	1.94	0.49
2:A:3089:GLY:O	2:A:3093:ILE:HG12	2.13	0.49
2:A:3268:LEU:HG	2:A:3273:MET:HE3	1.94	0.49
2:A:4254:THR:HA	2:A:4257:ARG:HE	1.77	0.49
2:B:1019:GLY:O	2:B:1030:PRO:HB3	2.12	0.49
2:B:2142:MET:HE2	2:B:2192:MET:HE2	1.95	0.49
2:B:2695:MET:HG2	2:B:2700:ASN:O	2.11	0.49
2:B:2704:GLN:HA	2:B:2854:LYS:HE2	1.95	0.49
2:B:3089:GLY:O	2:B:3093:ILE:HG12	2.13	0.49
2:B:3319:PHE:O	2:B:3323:MET:HE2	2.12	0.49
2:B:4751:LYS:HG3	2:B:4754:ARG:NH1	2.27	0.49
2:C:1019:GLY:O	2:C:1030:PRO:HB3	2.12	0.49
2:C:1564:MET:HG3	2:C:1565:PRO:HD2	1.93	0.49
2:C:2591:ARG:HH22	2:C:2875:ASP:HB3	1.78	0.49
2:C:2704:GLN:HA	2:C:2854:LYS:HE2	1.94	0.49
2:D:4517:LEU:HD21	2:D:4736:ASN:HB3	1.95	0.49
2:A:953:SER:OG	2:A:1063:ASN:OD1	2.30	0.49
2:A:3304:GLN:HA	2:A:3307:ILE:HG12	1.94	0.49
2:A:4089:GLU:HB2	2:A:4090:PRO:HD3	1.95	0.49
2:B:966:LEU:H	2:B:977:LYS:HD2	1.76	0.49
2:B:1018:TYR:CE1	2:B:1030:PRO:HA	2.47	0.49
2:B:1963:LYS:O	2:B:1967:SER:OG	2.27	0.49
2:B:4517:LEU:HD21	2:B:4736:ASN:HB3	1.95	0.49
2:C:4254:THR:HA	2:C:4257:ARG:HE	1.77	0.49
2:D:1018:TYR:CE1	2:D:1030:PRO:HA	2.47	0.49
2:D:2868:HIS:CE1	2:D:2870:LEU:HB2	2.48	0.49
2:D:3075:LEU:HD12	2:D:3076:LYS:HD2	1.95	0.49
2:D:3296:MET:HE1	2:D:3334:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3805:LEU:HD21	2:D:3891:TYR:HB2	1.92	0.49
2:D:4089:GLU:HB2	2:D:4090:PRO:HD3	1.95	0.49
1:F:19:LYS:HZ3	1:F:52:GLY:HA3	1.76	0.49
2:A:232:ASP:OD1	2:A:356:TYR:OH	2.22	0.49
2:A:1016:TRP:CD1	2:A:1027:ARG:HB3	2.47	0.49
2:A:4751:LYS:HG3	2:A:4754:ARG:NH1	2.27	0.49
2:B:2488:LEU:HA	2:B:2492:PHE:HB2	1.95	0.49
2:B:4689:LYS:HE3	2:B:4696:ALA:HB2	1.94	0.49
2:C:271:ALA:O	2:C:301:THR:OG1	2.30	0.49
2:C:2142:MET:HE2	2:C:2192:MET:HE2	1.95	0.49
2:C:2413:LYS:HZ2	2:C:2415:GLU:HB3	1.77	0.49
2:C:2791:ARG:HD3	2:C:2901:TYR:CE1	2.47	0.49
2:C:2894:LYS:NZ	2:C:2897:GLN:OE1	2.46	0.49
2:C:3284:ILE:HA	2:C:3287:ASN:HD22	1.76	0.49
2:D:1975:MET:HA	2:D:1978:ASN:HD22	1.77	0.49
2:D:2591:ARG:HH22	2:D:2875:ASP:HB3	1.78	0.49
2:D:3068:LEU:HD12	2:D:3133:ILE:HG12	1.93	0.49
2:D:3846:LEU:HB3	2:D:3854:PHE:CE2	2.47	0.49
2:A:897:LYS:HB3	2:A:918:LEU:HD23	1.94	0.49
2:A:907:VAL:HB	2:A:912:LYS:HE2	1.94	0.49
2:A:3861:GLN:HB3	2:A:3864:ASN:HD22	1.78	0.49
2:B:728:ASP:OD2	2:B:731:HIS:HB2	2.12	0.49
2:B:1118:SER:HB3	2:B:1204:VAL:HG11	1.95	0.49
2:B:2158:HIS:CE1	2:B:3615:ARG:HH12	2.31	0.49
2:B:3036:LEU:O	2:B:3040:LEU:HG	2.13	0.49
2:C:514:PHE:CE2	2:C:522:ALA:HB1	2.47	0.49
2:C:1954:SER:HB3	2:C:1957:LEU:HB2	1.94	0.49
2:C:2674:GLY:HA2	2:C:2978:HIS:CE1	2.48	0.49
2:C:2714:PRO:HG2	2:C:2717:LEU:HD13	1.95	0.49
2:C:3036:LEU:O	2:C:3040:LEU:HG	2.13	0.49
2:C:3986:LEU:HD12	2:C:4101:LEU:HD12	1.94	0.49
2:D:537:LEU:O	2:D:541:ILE:HG12	2.12	0.49
2:D:2704:GLN:HA	2:D:2854:LYS:HE2	1.94	0.49
2:D:3089:GLY:O	2:D:3093:ILE:HG12	2.13	0.49
2:D:3319:PHE:O	2:D:3323:MET:HE2	2.12	0.49
2:D:4858:LEU:HA	2:D:4861:ILE:HD12	1.94	0.49
2:A:1118:SER:HB3	2:A:1204:VAL:HG11	1.95	0.49
2:A:2119:LEU:HB2	2:A:2152:ASN:ND2	2.28	0.49
2:A:2591:ARG:HH22	2:A:2875:ASP:HB3	1.78	0.49
2:A:2706:VAL:HG23	2:A:2847:ASN:HD21	1.77	0.49
2:A:3034:HIS:CE1	2:A:3107:SER:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2894:LYS:NZ	2:B:2897:GLN:OE1	2.46	0.49
2:B:3239:LEU:HD23	2:B:3242:LEU:HD12	1.95	0.49
2:B:3304:GLN:HA	2:B:3307:ILE:HG12	1.94	0.49
2:B:4697:VAL:O	2:B:4701:ILE:HG12	2.12	0.49
2:C:897:LYS:CB	2:C:918:LEU:HD23	2.42	0.49
2:C:3034:HIS:CE1	2:C:3107:SER:HB2	2.47	0.49
2:C:4089:GLU:HB2	2:C:4090:PRO:HD3	1.95	0.49
2:D:312:LYS:HE2	2:D:394:HIS:HA	1.95	0.49
2:D:942:THR:HG21	2:D:1002:ASN:HD22	1.77	0.49
2:D:1074:ARG:HH12	2:D:1209:VAL:HG11	1.78	0.49
2:D:1681:ASP:HB3	2:D:1683:PRO:HD2	1.94	0.49
2:D:1954:SER:HB3	2:D:1957:LEU:HB2	1.94	0.49
2:D:2488:LEU:HA	2:D:2492:PHE:HB2	1.95	0.49
2:D:2894:LYS:NZ	2:D:2897:GLN:OE1	2.46	0.49
2:D:3861:GLN:HB3	2:D:3864:ASN:HD22	1.78	0.49
2:A:931:TYR:OH	4:A:5003:ATP:H2'	2.13	0.49
2:A:1135:PHE:CG	2:A:1173:MET:HE1	2.48	0.49
2:A:2488:LEU:HA	2:A:2492:PHE:HB2	1.95	0.49
2:A:3986:LEU:HD12	2:A:4101:LEU:HD12	1.94	0.49
2:A:4177:VAL:HG11	2:A:4880:VAL:HA	1.94	0.49
2:B:258:ARG:NH1	2:B:316:LEU:O	2.46	0.49
2:B:312:LYS:HE2	2:B:394:HIS:HA	1.94	0.49
2:B:1552:VAL:HG12	2:B:1553:PHE:HD1	1.77	0.49
2:B:2211:GLN:NE2	2:B:2248:MET:O	2.35	0.49
2:B:2791:ARG:HD3	2:B:2901:TYR:CE1	2.47	0.49
2:B:4089:GLU:HB2	2:B:4090:PRO:HD3	1.95	0.49
2:B:4858:LEU:HA	2:B:4861:ILE:HD12	1.95	0.49
2:C:907:VAL:HB	2:C:912:LYS:HE2	1.95	0.49
2:C:953:SER:OG	2:C:1061:GLY:O	2.31	0.49
2:C:2716:LYS:HG3	2:C:2717:LEU:HD12	1.95	0.49
2:C:4043:ILE:O	2:C:4078:LEU:N	2.31	0.49
2:C:4517:LEU:HD21	2:C:4736:ASN:HB3	1.95	0.49
2:D:514:PHE:CE2	2:D:522:ALA:HB1	2.47	0.49
2:D:625:VAL:HG23	2:D:628:ASN:HB2	1.93	0.49
2:D:953:SER:OG	2:D:1061:GLY:O	2.31	0.49
2:D:1074:ARG:HD2	2:D:1078:CYS:HB3	1.95	0.49
2:D:2119:LEU:HB2	2:D:2152:ASN:ND2	2.28	0.49
2:D:2674:GLY:HA2	2:D:2978:HIS:CE1	2.48	0.49
2:D:4697:VAL:O	2:D:4701:ILE:HG12	2.12	0.49
2:A:1552:VAL:HG12	2:A:1553:PHE:HD1	1.77	0.49
2:A:1717:ALA:HA	2:A:1720:MET:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:411:GLU:OE2	2:B:485:ARG:NE	2.46	0.49
2:B:456:LEU:HD11	2:B:533:LEU:HG	1.95	0.49
2:C:967:PRO:O	2:C:971:GLN:N	2.40	0.49
2:C:1415:ASP:HB3	2:C:1561:LYS:HD2	1.94	0.49
2:C:1608:VAL:HG12	2:C:1619:VAL:HG22	1.94	0.49
2:C:3089:GLY:O	2:C:3093:ILE:HG12	2.13	0.49
2:D:2478:ILE:HG21	2:D:2484:LEU:HD13	1.94	0.49
2:D:3034:HIS:CE1	2:D:3107:SER:HB2	2.47	0.49
2:A:953:SER:OG	2:A:1061:GLY:O	2.31	0.48
2:A:1415:ASP:HB3	2:A:1561:LYS:HD2	1.94	0.48
2:A:1954:SER:HB3	2:A:1957:LEU:HB2	1.94	0.48
2:A:2142:MET:HE2	2:A:2192:MET:HE2	1.95	0.48
2:A:2447:LYS:HD2	2:A:2864:GLY:HA3	1.95	0.48
2:A:2710:ASN:OD1	2:A:2711:ILE:N	2.46	0.48
2:A:3075:LEU:HD12	2:A:3076:LYS:HD2	1.95	0.48
2:A:4238:ILE:HG23	2:A:4239:LEU:HD12	1.95	0.48
2:B:897:LYS:HB3	2:B:918:LEU:HD23	1.94	0.48
2:B:1287:GLN:NE2	2:B:1295:SER:OG	2.45	0.48
2:B:2674:GLY:HA2	2:B:2978:HIS:CE1	2.48	0.48
2:B:3261:ALA:C	2:B:3263:MET:N	2.71	0.48
2:B:4177:VAL:HG11	2:B:4880:VAL:HA	1.94	0.48
2:B:4254:THR:HA	2:B:4257:ARG:HE	1.77	0.48
2:C:456:LEU:HD11	2:C:533:LEU:HG	1.95	0.48
2:C:1135:PHE:CG	2:C:1173:MET:HE1	2.48	0.48
2:C:3075:LEU:HD12	2:C:3076:LYS:HD2	1.95	0.48
2:C:3319:PHE:O	2:C:3323:MET:HE2	2.12	0.48
2:C:4052:MET:HE1	2:C:4063:THR:HA	1.95	0.48
2:D:411:GLU:OE2	2:D:485:ARG:NE	2.46	0.48
2:D:931:TYR:OH	4:D:5003:ATP:H2'	2.13	0.48
2:D:2716:LYS:HG3	2:D:2717:LEU:HD12	1.95	0.48
2:D:3986:LEU:HD12	2:D:4101:LEU:HD12	1.94	0.48
2:A:3235:MET:HA	2:A:3239:LEU:HD12	1.96	0.48
2:A:4697:VAL:O	2:A:4701:ILE:HG12	2.12	0.48
2:B:227:TYR:CG	2:B:352:SER:HB2	2.49	0.48
2:B:2716:LYS:HG3	2:B:2717:LEU:HD12	1.95	0.48
2:B:3920:LEU:HD22	2:B:3935:LEU:HD21	1.95	0.48
2:B:4010:VAL:HG11	2:B:4118:PHE:HZ	1.78	0.48
2:C:2488:LEU:HA	2:C:2492:PHE:HB2	1.95	0.48
2:C:2868:HIS:CE1	2:C:2870:LEU:HB2	2.48	0.48
2:D:1031:ARG:HE	2:D:1038:LEU:HD11	1.78	0.48
2:D:2754:GLN:HE22	2:D:2757:MET:HG2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2791:ARG:HD3	2:D:2901:TYR:CZ	2.48	0.48
2:D:4052:MET:HE1	2:D:4063:THR:HA	1.95	0.48
2:A:1972:GLN:HA	2:A:1975:MET:SD	2.53	0.48
2:A:2716:LYS:HG3	2:A:2717:LEU:HD12	1.95	0.48
2:A:4010:VAL:HG11	2:A:4118:PHE:HZ	1.78	0.48
2:B:1074:ARG:HD2	2:B:1078:CYS:HB3	1.95	0.48
2:B:1972:GLN:HA	2:B:1975:MET:SD	2.53	0.48
2:B:2714:PRO:HG2	2:B:2717:LEU:HD13	1.95	0.48
2:B:3268:LEU:HG	2:B:3273:MET:HE3	1.94	0.48
2:B:3861:GLN:HB3	2:B:3864:ASN:HD22	1.78	0.48
2:C:1074:ARG:HD2	2:C:1078:CYS:HB3	1.95	0.48
2:C:3304:GLN:HA	2:C:3307:ILE:HG12	1.94	0.48
2:C:4625:ASP:OD1	2:C:4625:ASP:N	2.46	0.48
2:D:1031:ARG:NH2	2:D:1042:THR:HG21	2.21	0.48
2:A:1074:ARG:HH12	2:A:1209:VAL:HG11	1.78	0.48
2:A:1107:THR:HB	2:A:1113:MET:HE1	1.96	0.48
2:A:2158:HIS:CE1	2:A:3615:ARG:HH12	2.31	0.48
2:A:2766:LYS:HE2	2:A:2766:LYS:HA	1.94	0.48
2:A:3239:LEU:HD23	2:A:3242:LEU:HD12	1.95	0.48
2:A:4626:ILE:HG12	2:D:4241:VAL:HG13	1.95	0.48
2:B:1074:ARG:HH12	2:B:1209:VAL:HG11	1.78	0.48
2:B:1939:ASN:ND2	2:B:1989:PRO:HG2	2.28	0.48
2:C:1043:LYS:HB2	2:C:1043:LYS:HE2	1.54	0.48
2:C:3239:LEU:HD23	2:C:3242:LEU:HD12	1.95	0.48
2:C:3261:ALA:C	2:C:3263:MET:N	2.71	0.48
2:D:227:TYR:CG	2:D:352:SER:HB2	2.49	0.48
2:D:2561:LEU:O	2:D:2566:ARG:NH1	2.46	0.48
2:D:2714:PRO:HG2	2:D:2717:LEU:HD13	1.95	0.48
2:D:3152:ARG:HA	2:D:3155:LEU:HD12	1.96	0.48
2:D:4238:ILE:HG23	2:D:4239:LEU:HD12	1.95	0.48
2:A:1681:ASP:HB3	2:A:1683:PRO:HD2	1.94	0.48
2:A:2791:ARG:HD3	2:A:2901:TYR:CZ	2.48	0.48
2:A:4517:LEU:HD21	2:A:4736:ASN:HB3	1.95	0.48
2:A:4689:LYS:HD2	2:A:4690:LYS:H	1.78	0.48
2:B:2976:LYS:HG3	2:B:2979:ARG:NH2	2.29	0.48
2:B:3235:MET:HA	2:B:3239:LEU:HD12	1.96	0.48
2:B:3986:LEU:HD12	2:B:4101:LEU:HD12	1.94	0.48
2:B:4921:PHE:HE2	2:B:4940:VAL:HG11	1.78	0.48
2:C:227:TYR:CG	2:C:352:SER:HB2	2.49	0.48
2:C:375:GLN:HG2	2:C:377:VAL:HG23	1.96	0.48
2:C:625:VAL:HG23	2:C:628:ASN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2158:HIS:CE1	2:C:3615:ARG:HH12	2.31	0.48
2:C:2561:LEU:O	2:C:2566:ARG:NH1	2.46	0.48
2:C:2710:ASN:OD1	2:C:2711:ILE:N	2.47	0.48
2:D:271:ALA:O	2:D:301:THR:OG1	2.30	0.48
2:D:2158:HIS:CE1	2:D:3615:ARG:HH12	2.31	0.48
2:D:2976:LYS:HG3	2:D:2979:ARG:NH2	2.28	0.48
2:A:288:HIS:CE1	2:A:349:MET:HG3	2.49	0.48
2:A:2894:LYS:NZ	2:A:2897:GLN:OE1	2.46	0.48
2:A:2976:LYS:HG3	2:A:2979:ARG:NH2	2.28	0.48
2:A:4052:MET:HE1	2:A:4063:THR:HA	1.95	0.48
2:A:4257:ARG:O	2:A:4261:LEU:HG	2.14	0.48
2:A:4863:GLN:HG2	2:B:4860:ALA:HB2	1.96	0.48
2:B:907:VAL:HB	2:B:912:LYS:HE2	1.94	0.48
2:B:953:SER:OG	2:B:1061:GLY:O	2.31	0.48
2:C:118:ALA:HA	2:C:161:THR:HA	1.95	0.48
2:C:2791:ARG:HD3	2:C:2901:TYR:CZ	2.48	0.48
2:C:4010:VAL:HG11	2:C:4118:PHE:HZ	1.78	0.48
2:C:4689:LYS:HE3	2:C:4696:ALA:HB2	1.94	0.48
2:D:118:ALA:HA	2:D:161:THR:HA	1.95	0.48
2:D:2142:MET:HE2	2:D:2192:MET:HE2	1.95	0.48
2:D:2447:LYS:HD2	2:D:2864:GLY:HA3	1.95	0.48
2:A:1936:LEU:HD11	2:A:1976:LEU:HD22	1.96	0.48
2:A:2754:GLN:HE22	2:A:2757:MET:HG2	1.78	0.48
2:A:3920:LEU:HD22	2:A:3935:LEU:HD21	1.95	0.48
2:A:4658:GLY:HA2	2:A:4666:ILE:HD12	1.95	0.48
2:A:4858:LEU:HA	2:A:4861:ILE:HD12	1.95	0.48
2:B:288:HIS:CE1	2:B:349:MET:HG3	2.49	0.48
2:B:375:GLN:HG2	2:B:377:VAL:HG23	1.96	0.48
2:B:2502:LEU:HD13	2:B:2507:LEU:HD13	1.96	0.48
2:B:2710:ASN:OD1	2:B:2711:ILE:N	2.46	0.48
2:B:2791:ARG:HD3	2:B:2901:TYR:CZ	2.48	0.48
2:B:4257:ARG:O	2:B:4261:LEU:HG	2.14	0.48
4:B:5003:ATP:H5'1	4:B:5003:ATP:H8	1.79	0.48
2:C:288:HIS:CE1	2:C:349:MET:HG3	2.49	0.48
2:C:1967:SER:O	2:C:1972:GLN:NE2	2.40	0.48
2:C:2443:PRO:HD2	2:C:2512:MET:HE2	1.96	0.48
2:C:2888:LYS:HA	2:C:2891:ASP:OD2	2.14	0.48
2:C:3819:MET:HE2	2:C:3819:MET:HB2	1.75	0.48
2:D:907:VAL:HB	2:D:912:LYS:HE2	1.94	0.48
2:D:1118:SER:HB3	2:D:1204:VAL:HG11	1.95	0.48
2:D:3235:MET:HA	2:D:3239:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3321:PRO:HA	2:D:3324:GLU:HG3	1.96	0.48
2:A:2077:ASP:O	2:A:2081:VAL:HG23	2.14	0.48
2:A:2674:GLY:HA2	2:A:2978:HIS:CE1	2.48	0.48
2:A:4107:GLU:OE2	2:A:4135:ARG:NE	2.47	0.48
4:A:5003:ATP:H8	4:A:5003:ATP:H5'1	1.79	0.48
2:B:1135:PHE:CG	2:B:1173:MET:HE1	2.48	0.48
2:B:1415:ASP:HB3	2:B:1561:LYS:HD2	1.94	0.48
2:B:2561:LEU:O	2:B:2566:ARG:NH1	2.46	0.48
2:C:2077:ASP:O	2:C:2081:VAL:HG23	2.14	0.48
2:C:2976:LYS:HG3	2:C:2979:ARG:NH2	2.29	0.48
2:C:3221:LEU:HD22	2:C:3231:MET:SD	2.54	0.48
2:C:3861:GLN:HB3	2:C:3864:ASN:HD22	1.78	0.48
2:C:4238:ILE:HG23	2:C:4239:LEU:HD12	1.95	0.48
2:C:4620:GLN:OE1	2:C:4632:ARG:NH1	2.47	0.48
2:D:1107:THR:HB	2:D:1113:MET:HE1	1.96	0.48
2:D:2074:VAL:HG23	2:D:3660:ARG:HG2	1.96	0.48
2:D:2710:ASN:OD1	2:D:2711:ILE:N	2.46	0.48
2:D:3036:LEU:O	2:D:3040:LEU:HG	2.13	0.48
2:D:3304:GLN:HA	2:D:3307:ILE:HG12	1.94	0.48
1:E:27:TYR:HA	1:E:101:ASP:O	2.14	0.48
2:A:312:LYS:HE2	2:A:394:HIS:HA	1.94	0.48
2:A:375:GLN:HG2	2:A:377:VAL:HG23	1.96	0.48
2:A:2502:LEU:HD13	2:A:2507:LEU:HD13	1.96	0.48
2:A:3001:LYS:HE2	2:A:3045:VAL:HG23	1.96	0.48
2:A:3296:MET:HE1	2:A:3334:VAL:HG11	1.94	0.48
2:B:1681:ASP:HB3	2:B:1683:PRO:HD2	1.94	0.48
2:B:2119:LEU:HB2	2:B:2152:ASN:ND2	2.28	0.48
2:B:4238:ILE:HG23	2:B:4239:LEU:HD12	1.95	0.48
2:B:4658:GLY:HA2	2:B:4666:ILE:HD12	1.95	0.48
2:C:312:LYS:HE2	2:C:394:HIS:HA	1.94	0.48
2:C:931:TYR:OH	4:C:5003:ATP:H2'	2.13	0.48
2:C:1031:ARG:HE	2:C:1038:LEU:HD11	1.78	0.48
2:C:3920:LEU:HD22	2:C:3935:LEU:HD21	1.95	0.48
2:C:4107:GLU:OE2	2:C:4135:ARG:NE	2.47	0.48
2:D:717:GLY:N	2:D:720:ASP:OD2	2.42	0.48
2:D:1936:LEU:HD11	2:D:1976:LEU:HD22	1.96	0.48
2:D:1939:ASN:ND2	2:D:1989:PRO:HG2	2.28	0.48
2:D:2605:MET:C	2:D:2605:MET:HE2	2.39	0.48
2:D:2888:LYS:HA	2:D:2891:ASP:OD2	2.14	0.48
2:D:3277:LEU:O	2:D:3281:LEU:HG	2.14	0.48
2:D:3920:LEU:HD22	2:D:3935:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4631:ASP:OD1	2:D:4708:TRP:NE1	2.42	0.48
2:A:258:ARG:NH1	2:A:316:LEU:O	2.46	0.48
2:A:2074:VAL:HG23	2:A:3660:ARG:HG2	1.96	0.48
2:A:2868:HIS:CE1	2:A:2870:LEU:HB2	2.48	0.48
2:A:3152:ARG:HA	2:A:3155:LEU:HD12	1.96	0.48
2:A:4620:GLN:OE1	2:A:4632:ARG:NH1	2.47	0.48
2:B:3075:LEU:HD12	2:B:3076:LYS:HD2	1.95	0.48
2:B:3221:LEU:HD22	2:B:3231:MET:SD	2.54	0.48
2:B:4620:GLN:OE1	2:B:4632:ARG:NH1	2.47	0.48
2:C:953:SER:OG	2:C:1063:ASN:OD1	2.30	0.48
2:C:4257:ARG:O	2:C:4261:LEU:HG	2.14	0.48
2:D:456:LEU:HD11	2:D:533:LEU:HG	1.95	0.48
2:D:872:ILE:O	2:D:941:LYS:NZ	2.47	0.48
2:D:1135:PHE:CG	2:D:1173:MET:HE1	2.48	0.48
2:D:2077:ASP:O	2:D:2081:VAL:HG23	2.14	0.48
2:D:2943:PHE:HD2	2:D:3021:LEU:HD23	1.78	0.48
2:A:1074:ARG:HD2	2:A:1078:CYS:HB3	1.95	0.47
2:A:2561:LEU:O	2:A:2566:ARG:NH1	2.46	0.47
2:A:2590:ARG:HG2	2:A:2691:LYS:HE3	1.96	0.47
2:A:2605:MET:C	2:A:2605:MET:HE2	2.39	0.47
2:A:2791:ARG:HD3	2:A:2901:TYR:CE1	2.47	0.47
2:A:3016:ARG:HG2	2:A:3017:HIS:CD2	2.49	0.47
2:A:3036:LEU:O	2:A:3040:LEU:HG	2.13	0.47
2:A:3221:LEU:HD22	2:A:3231:MET:SD	2.54	0.47
2:A:4848:ILE:HD11	2:D:4818:TYR:HA	1.96	0.47
2:B:1936:LEU:HD11	2:B:1976:LEU:HD22	1.96	0.47
2:B:2550:HIS:HD2	2:B:2591:ARG:HD2	1.79	0.47
2:B:2758:LYS:HE2	2:B:2762:LEU:O	2.14	0.47
2:B:3025:ASP:O	2:B:3028:SER:OG	2.31	0.47
2:B:3187:LYS:O	2:B:3191:GLU:HB2	2.14	0.47
2:B:4689:LYS:HD2	2:B:4690:LYS:H	1.78	0.47
2:C:1074:ARG:HH12	2:C:1209:VAL:HG11	1.78	0.47
2:C:1118:SER:HB3	2:C:1204:VAL:HG11	1.95	0.47
2:C:1939:ASN:ND2	2:C:1989:PRO:HG2	2.28	0.47
2:C:1972:GLN:HA	2:C:1975:MET:SD	2.53	0.47
2:C:1975:MET:HA	2:C:1978:ASN:HD22	1.77	0.47
2:C:2074:VAL:HG23	2:C:3660:ARG:HG2	1.96	0.47
2:C:2550:HIS:HD2	2:C:2591:ARG:HD2	1.79	0.47
2:C:2754:GLN:HE22	2:C:2757:MET:HG2	1.78	0.47
2:C:3235:MET:HA	2:C:3239:LEU:HD12	1.96	0.47
2:C:4858:LEU:HA	2:C:4861:ILE:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2443:PRO:HD2	2:D:2512:MET:HE2	1.96	0.47
2:D:4107:GLU:OE2	2:D:4135:ARG:NE	2.47	0.47
2:D:4658:GLY:HA2	2:D:4666:ILE:HD12	1.95	0.47
2:A:118:ALA:HA	2:A:161:THR:HA	1.95	0.47
2:A:456:LEU:HD11	2:A:533:LEU:HG	1.95	0.47
2:A:1939:ASN:ND2	2:A:1989:PRO:HG2	2.28	0.47
2:A:3712:LYS:HB2	2:A:3712:LYS:HE3	1.69	0.47
2:B:2077:ASP:O	2:B:2081:VAL:HG23	2.14	0.47
2:B:2443:PRO:HD2	2:B:2512:MET:HE2	1.96	0.47
2:B:3016:ARG:HG2	2:B:3017:HIS:CD2	2.49	0.47
2:C:2758:LYS:HE2	2:C:2762:LEU:O	2.14	0.47
2:C:3321:PRO:HA	2:C:3324:GLU:HG3	1.96	0.47
2:D:1967:SER:HB3	2:D:1971:GLU:OE1	2.14	0.47
2:D:1972:GLN:HA	2:D:1975:MET:SD	2.53	0.47
2:D:2502:LEU:HD13	2:D:2507:LEU:HD13	1.96	0.47
2:D:2706:VAL:HG23	2:D:2847:ASN:HD21	1.77	0.47
2:D:2791:ARG:NH2	2:D:2795:GLY:O	2.42	0.47
2:D:3924:ILE:HG21	2:D:3935:LEU:HD22	1.96	0.47
2:D:4179:GLU:HG2	2:D:4179:GLU:O	2.15	0.47
1:G:27:TYR:HA	1:G:101:ASP:O	2.14	0.47
2:A:227:TYR:CG	2:A:352:SER:HB2	2.49	0.47
2:A:2943:PHE:HD2	2:A:3021:LEU:HD23	1.79	0.47
2:A:4179:GLU:HG2	2:A:4179:GLU:O	2.15	0.47
2:B:931:TYR:OH	4:B:5003:ATP:H2'	2.13	0.47
2:B:2888:LYS:HA	2:B:2891:ASP:OD2	2.14	0.47
2:B:3002:GLU:OE2	2:B:3045:VAL:HA	2.14	0.47
2:B:3043:ARG:HG3	2:B:3047:LYS:HZ2	1.79	0.47
2:C:1100:ARG:HH12	2:C:1234:GLU:C	2.21	0.47
2:C:2502:LEU:HD13	2:C:2507:LEU:HD13	1.96	0.47
2:C:2664:LEU:O	2:C:2667:PRO:HD2	2.15	0.47
2:C:2730:ASP:CG	2:C:2734:MET:HE1	2.40	0.47
2:D:3260:ARG:HH11	2:D:3264:CYS:HA	1.79	0.47
2:D:4620:GLN:OE1	2:D:4632:ARG:NH1	2.47	0.47
1:E:23:CYS:SG	1:E:51:ILE:HD11	2.55	0.47
1:F:27:TYR:HA	1:F:101:ASP:O	2.14	0.47
2:A:1031:ARG:HE	2:A:1038:LEU:HD11	1.78	0.47
2:A:2664:LEU:O	2:A:2667:PRO:HD2	2.15	0.47
2:A:2714:PRO:HG2	2:A:2717:LEU:HD13	1.95	0.47
2:A:3277:LEU:O	2:A:3281:LEU:HG	2.14	0.47
2:B:1967:SER:O	2:B:1972:GLN:NE2	2.40	0.47
2:B:2664:LEU:O	2:B:2667:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2868:HIS:CE1	2:B:2870:LEU:HB2	2.48	0.47
2:B:2943:PHE:HD2	2:B:3021:LEU:HD23	1.78	0.47
2:B:3277:LEU:O	2:B:3281:LEU:HG	2.14	0.47
2:B:3321:PRO:HA	2:B:3324:GLU:HG3	1.96	0.47
2:C:2119:LEU:HB2	2:C:2152:ASN:ND2	2.28	0.47
2:C:2447:LYS:HD2	2:C:2864:GLY:HA3	1.95	0.47
1:H:27:TYR:HA	1:H:101:ASP:O	2.14	0.47
2:A:1914:CYS:HB3	2:A:2090:ARG:HH21	1.80	0.47
2:A:2730:ASP:CG	2:A:2734:MET:HE1	2.40	0.47
2:A:2888:LYS:HA	2:A:2891:ASP:OD2	2.14	0.47
2:B:1967:SER:HB3	2:B:1971:GLU:OE1	2.14	0.47
2:B:2590:ARG:HG2	2:B:2691:LYS:HE3	1.97	0.47
2:B:3025:ASP:O	2:B:3029:ILE:HD12	2.15	0.47
2:C:2605:MET:C	2:C:2605:MET:HE2	2.39	0.47
2:C:3016:ARG:HG2	2:C:3017:HIS:CD2	2.49	0.47
2:C:3171:LEU:HB2	2:C:3245:TYR:CZ	2.50	0.47
2:D:3239:LEU:HD23	2:D:3242:LEU:HD12	1.95	0.47
2:A:872:ILE:O	2:A:941:LYS:NZ	2.47	0.47
2:A:2758:LYS:HE2	2:A:2762:LEU:O	2.14	0.47
2:A:3187:LYS:O	2:A:3191:GLU:HB2	2.14	0.47
2:A:4921:PHE:HE2	2:A:4940:VAL:HG11	1.79	0.47
2:B:66:THR:HG22	2:B:217:ILE:HG13	1.97	0.47
2:B:118:ALA:HA	2:B:161:THR:HA	1.95	0.47
2:B:902:TRP:CB	2:B:918:LEU:HD21	2.42	0.47
2:B:1914:CYS:HB3	2:B:2090:ARG:HH21	1.80	0.47
2:B:3124:GLU:C	2:B:3126:VAL:H	2.23	0.47
2:B:4052:MET:HE1	2:B:4063:THR:HA	1.95	0.47
2:B:4118:PHE:HA	2:B:4121:LEU:HD12	1.97	0.47
2:C:258:ARG:NH1	2:C:316:LEU:O	2.46	0.47
2:C:1967:SER:HB3	2:C:1971:GLU:OE1	2.14	0.47
2:C:3043:ARG:HG3	2:C:3047:LYS:HZ2	1.79	0.47
2:C:3924:ILE:HG21	2:C:3935:LEU:HD22	1.96	0.47
2:C:4658:GLY:HA2	2:C:4666:ILE:HD12	1.95	0.47
2:D:258:ARG:NH1	2:D:316:LEU:O	2.46	0.47
2:D:3016:ARG:HG2	2:D:3017:HIS:CD2	2.49	0.47
2:D:3187:LYS:O	2:D:3191:GLU:HB2	2.14	0.47
2:D:4010:VAL:HG11	2:D:4118:PHE:HZ	1.78	0.47
2:D:4569:GLU:HB3	2:D:4570:PRO:HD3	1.97	0.47
1:F:23:CYS:SG	1:F:51:ILE:HD11	2.55	0.47
2:A:1011:ARG:HA	2:A:1014:GLN:CD	2.40	0.47
2:A:1967:SER:HB3	2:A:1971:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3261:ALA:C	2:A:3263:MET:N	2.71	0.47
2:A:3819:MET:HE2	2:A:3819:MET:HB2	1.75	0.47
2:A:4867:ILE:HG12	2:B:4864:GLY:HA2	1.97	0.47
2:B:28:ILE:HG22	2:B:29:HIS:HD2	1.80	0.47
2:B:1001:GLU:OE2	2:B:1035:TYR:HB3	2.14	0.47
2:B:1031:ARG:HE	2:B:1038:LEU:HD11	1.78	0.47
2:B:1199:ASP:OD1	2:B:1199:ASP:N	2.45	0.47
2:B:1957:LEU:HG	2:B:1961:LYS:HB3	1.97	0.47
2:B:2754:GLN:HE22	2:B:2757:MET:HG2	1.78	0.47
2:B:3171:LEU:HB2	2:B:3245:TYR:CZ	2.50	0.47
2:B:4107:GLU:OE2	2:B:4135:ARG:NE	2.47	0.47
2:C:307:SER:HB3	2:C:327:THR:HG22	1.97	0.47
2:C:1107:THR:HB	2:C:1113:MET:HE1	1.96	0.47
2:C:1936:LEU:HD11	2:C:1976:LEU:HD22	1.96	0.47
2:C:2134:MET:SD	2:C:2192:MET:HE3	2.55	0.47
2:C:2943:PHE:HD2	2:C:3021:LEU:HD23	1.78	0.47
2:C:3002:GLU:OE2	2:C:3045:VAL:HA	2.14	0.47
2:C:3140:LEU:HB3	2:C:3155:LEU:HD13	1.97	0.47
2:C:3187:LYS:O	2:C:3191:GLU:HB2	2.14	0.47
2:C:3277:LEU:O	2:C:3281:LEU:HG	2.14	0.47
4:C:5003:ATP:H8	4:C:5003:ATP:H5'1	1.79	0.47
2:D:375:GLN:HG2	2:D:377:VAL:HG23	1.96	0.47
2:D:2664:LEU:O	2:D:2667:PRO:HD2	2.15	0.47
2:D:2730:ASP:CG	2:D:2734:MET:HE1	2.40	0.47
2:D:2788:ARG:HH12	2:D:2908:LYS:HG2	1.80	0.47
2:D:2928:GLN:HA	2:D:2931:ARG:HE	1.80	0.47
2:D:3001:LYS:HE2	2:D:3045:VAL:HG23	1.96	0.47
2:D:3002:GLU:OE2	2:D:3045:VAL:HA	2.14	0.47
2:D:3221:LEU:HD22	2:D:3231:MET:SD	2.54	0.47
2:D:4921:PHE:HE2	2:D:4940:VAL:HG11	1.78	0.47
1:G:23:CYS:SG	1:G:51:ILE:HD11	2.55	0.47
2:A:808:HIS:O	2:A:1616:GLY:HA2	2.15	0.47
2:A:902:TRP:CB	2:A:918:LEU:HD21	2.42	0.47
2:A:2441:GLN:OE1	2:A:2454:PRO:HG3	2.14	0.47
2:A:3321:PRO:HA	2:A:3324:GLU:HG3	1.96	0.47
2:A:3653:GLU:HB2	2:A:3660:ARG:HH22	1.80	0.47
2:A:4569:GLU:HB3	2:A:4570:PRO:HD3	1.97	0.47
2:B:810:GLU:HB2	2:B:1614:ARG:HE	1.80	0.47
2:B:4502:MET:SD	2:B:4585:PHE:HB3	2.55	0.47
2:C:703:TYR:HD2	2:C:858:THR:HG22	1.80	0.47
2:C:872:ILE:O	2:C:941:LYS:NZ	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:877:HIS:O	2:C:880:ARG:HD3	2.15	0.47
2:C:2974:TYR:CZ	2:C:2982:PHE:HZ	2.33	0.47
2:C:3001:LYS:HE2	2:C:3045:VAL:HG23	1.96	0.47
2:C:3152:ARG:HA	2:C:3155:LEU:HD12	1.96	0.47
2:C:4274:MET:HE3	2:C:4279:MET:HE1	1.97	0.47
2:D:66:THR:HG22	2:D:217:ILE:HG13	1.97	0.47
2:D:1161:VAL:HG21	2:D:1225:LYS:HE2	1.97	0.47
2:D:2441:GLN:OE1	2:D:2454:PRO:HG3	2.14	0.47
2:D:3171:LEU:HB2	2:D:3245:TYR:CZ	2.50	0.47
4:D:5003:ATP:H8	4:D:5003:ATP:H5'1	1.79	0.47
2:A:143:LEU:HD21	2:D:2426:LEU:HA	1.97	0.47
2:A:1161:VAL:HG21	2:A:1225:LYS:HE2	1.97	0.47
2:A:1957:LEU:HG	2:A:1961:LYS:HB3	1.97	0.47
2:A:2332:GLY:N	2:A:2336:ARG:HH12	2.13	0.47
2:A:3124:GLU:C	2:A:3126:VAL:H	2.23	0.47
2:A:3171:LEU:HB2	2:A:3245:TYR:CZ	2.50	0.47
2:A:3260:ARG:O	2:A:3260:ARG:HD3	2.15	0.47
2:A:4502:MET:SD	2:A:4585:PHE:HB3	2.55	0.47
2:B:717:GLY:N	2:B:720:ASP:OD2	2.42	0.47
2:B:1306:MET:HE1	2:B:1571:PHE:CZ	2.50	0.47
2:B:2074:VAL:HG23	2:B:3660:ARG:HG2	1.96	0.47
2:B:2134:MET:SD	2:B:2192:MET:HE3	2.55	0.47
2:B:2229:LEU:HD13	2:B:2297:ARG:HB2	1.97	0.47
2:B:2884:LYS:HA	2:B:2887:GLU:OE2	2.15	0.47
2:C:66:THR:HG22	2:C:217:ILE:HG13	1.97	0.47
2:C:890:HIS:O	2:C:894:VAL:HG13	2.15	0.47
2:C:1011:ARG:HA	2:C:1014:GLN:CD	2.40	0.47
2:C:2705:PRO:HG3	2:C:2851:ILE:HG12	1.97	0.47
2:C:4569:GLU:HB3	2:C:4570:PRO:HD3	1.97	0.47
2:C:4921:PHE:HE2	2:C:4940:VAL:HG11	1.78	0.47
2:D:1001:GLU:OE2	2:D:1035:TYR:HB3	2.14	0.47
2:D:1986:CYS:O	2:D:1993:ARG:NH2	2.48	0.47
2:D:2590:ARG:HG2	2:D:2691:LYS:HE3	1.96	0.47
2:D:3001:LYS:NZ	2:D:3044:THR:H	2.13	0.47
2:A:307:SER:HB3	2:A:327:THR:HG22	1.97	0.47
2:A:794:PHE:CG	2:A:798:ILE:HD13	2.51	0.47
2:A:2596:VAL:O	2:A:2599:LEU:HD22	2.15	0.47
2:A:2928:GLN:HA	2:A:2931:ARG:HE	1.80	0.47
2:B:3140:LEU:HB3	2:B:3155:LEU:HD13	1.97	0.47
2:B:3152:ARG:HA	2:B:3155:LEU:HD12	1.96	0.47
2:C:28:ILE:HG22	2:C:29:HIS:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1306:MET:HE1	2:C:1571:PHE:CZ	2.50	0.47
2:C:2596:VAL:O	2:C:2599:LEU:HD22	2.15	0.47
2:C:3025:ASP:O	2:C:3029:ILE:HD12	2.15	0.47
2:C:4502:MET:SD	2:C:4585:PHE:HB3	2.55	0.47
2:D:877:HIS:O	2:D:880:ARG:HD3	2.15	0.47
2:D:890:HIS:O	2:D:894:VAL:HG13	2.15	0.47
2:D:2134:MET:SD	2:D:2192:MET:HE3	2.55	0.47
2:D:2596:VAL:O	2:D:2599:LEU:HD22	2.15	0.47
2:D:2974:TYR:CZ	2:D:2982:PHE:HZ	2.33	0.47
2:D:3124:GLU:C	2:D:3126:VAL:H	2.23	0.47
2:D:4617:ILE:HG23	2:D:4665:ARG:NH2	2.30	0.47
2:A:28:ILE:HG22	2:A:29:HIS:HD2	1.80	0.46
2:A:606:ARG:HH22	2:A:1634:GLU:HG2	1.80	0.46
2:A:703:TYR:HD2	2:A:858:THR:HG22	1.80	0.46
2:A:877:HIS:O	2:A:880:ARG:HD3	2.15	0.46
2:A:2009:ILE:HD12	2:A:3634:HIS:CD2	2.50	0.46
2:A:2229:LEU:HD13	2:A:2297:ARG:HB2	1.97	0.46
2:A:2443:PRO:HD2	2:A:2512:MET:HE2	1.96	0.46
2:A:2788:ARG:HH12	2:A:2908:LYS:HG2	1.80	0.46
2:A:3002:GLU:OE2	2:A:3045:VAL:HA	2.14	0.46
2:B:872:ILE:O	2:B:941:LYS:NZ	2.47	0.46
2:B:2141:LEU:O	2:B:2144:ARG:HD3	2.15	0.46
2:B:2178:VAL:HG21	2:B:2192:MET:SD	2.55	0.46
2:C:1001:GLU:OE2	2:C:1035:TYR:HB3	2.14	0.46
2:D:288:HIS:CE1	2:D:349:MET:HG3	2.49	0.46
2:D:1011:ARG:HA	2:D:1014:GLN:CD	2.40	0.46
2:D:1100:ARG:HH12	2:D:1234:GLU:C	2.21	0.46
2:D:1199:ASP:OD1	2:D:1199:ASP:N	2.45	0.46
2:D:1306:MET:HE1	2:D:1571:PHE:CZ	2.50	0.46
2:D:2884:LYS:HA	2:D:2887:GLU:OE2	2.15	0.46
2:D:4118:PHE:HA	2:D:4121:LEU:HD12	1.97	0.46
2:A:1945:ASN:O	2:A:1949:GLN:NE2	2.42	0.46
2:A:2134:MET:SD	2:A:2192:MET:HE3	2.55	0.46
2:A:3227:ARG:NH1	2:A:3228:TYR:HB3	2.31	0.46
2:B:824:GLU:HA	2:B:1020:ILE:HD12	1.97	0.46
2:B:1161:VAL:HG21	2:B:1225:LYS:HE2	1.97	0.46
2:B:2172:MET:HE3	2:B:2217:HIS:CG	2.50	0.46
2:B:2596:VAL:O	2:B:2599:LEU:HD22	2.15	0.46
2:B:2788:ARG:HH12	2:B:2908:LYS:HG2	1.80	0.46
2:B:3227:ARG:NH1	2:B:3228:TYR:HB3	2.30	0.46
2:B:4179:GLU:O	2:B:4179:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:606:ARG:HH22	2:C:1634:GLU:HG2	1.80	0.46
2:C:810:GLU:HB2	2:C:1614:ARG:HE	1.80	0.46
2:C:2009:ILE:HD12	2:C:3634:HIS:CD2	2.50	0.46
2:D:606:ARG:HH22	2:D:1634:GLU:HG2	1.80	0.46
2:D:2170:THR:O	2:D:2174:VAL:HG23	2.16	0.46
2:D:2681:MET:SD	2:D:2914:THR:HA	2.55	0.46
2:D:4257:ARG:O	2:D:4261:LEU:HG	2.14	0.46
2:A:890:HIS:O	2:A:894:VAL:HG13	2.15	0.46
2:A:2550:HIS:HD2	2:A:2591:ARG:HD2	1.79	0.46
2:A:3650:GLU:OE1	2:A:3659:LYS:NZ	2.49	0.46
2:B:2441:GLN:OE1	2:B:2454:PRO:HG3	2.14	0.46
2:B:2730:ASP:CG	2:B:2734:MET:HE1	2.40	0.46
2:C:267:VAL:HG22	2:C:272:ARG:HH12	1.81	0.46
2:C:1161:VAL:HG21	2:C:1225:LYS:HE2	1.97	0.46
2:C:1957:LEU:HG	2:C:1961:LYS:HB3	1.97	0.46
2:C:1986:CYS:O	2:C:1993:ARG:NH2	2.48	0.46
2:C:2178:VAL:HG21	2:C:2192:MET:SD	2.55	0.46
2:C:2229:LEU:HD13	2:C:2297:ARG:HB2	1.97	0.46
2:C:2681:MET:SD	2:C:2914:THR:HA	2.56	0.46
2:C:2788:ARG:HH12	2:C:2908:LYS:HG2	1.80	0.46
2:C:3124:GLU:C	2:C:3126:VAL:H	2.23	0.46
2:C:3653:GLU:HB2	2:C:3660:ARG:HH22	1.80	0.46
2:C:4617:ILE:HG23	2:C:4665:ARG:NH2	2.30	0.46
2:C:4822:ARG:HH12	2:D:4829:ASP:N	2.13	0.46
2:D:1914:CYS:HB3	2:D:2090:ARG:HH21	1.80	0.46
2:D:2059:GLN:HG3	2:D:2091:GLN:HB3	1.98	0.46
2:D:2172:MET:HE3	2:D:2217:HIS:CG	2.51	0.46
2:D:2758:LYS:HE2	2:D:2762:LEU:O	2.14	0.46
2:D:4689:LYS:HD2	2:D:4690:LYS:H	1.78	0.46
1:H:23:CYS:SG	1:H:51:ILE:HD11	2.55	0.46
2:A:66:THR:HG22	2:A:217:ILE:HG13	1.97	0.46
2:A:810:GLU:HB2	2:A:1614:ARG:HE	1.80	0.46
2:A:1001:GLU:OE2	2:A:1035:TYR:HB3	2.14	0.46
2:A:3001:LYS:NZ	2:A:3044:THR:H	2.13	0.46
2:A:4118:PHE:HA	2:A:4121:LEU:HD12	1.97	0.46
2:B:606:ARG:HH22	2:B:1634:GLU:HG2	1.80	0.46
2:B:1489:CYS:O	2:B:1492:GLU:HG3	2.15	0.46
2:B:2113:VAL:O	2:B:2117:ILE:HG13	2.15	0.46
2:B:2170:THR:O	2:B:2174:VAL:HG23	2.16	0.46
2:B:2332:GLY:N	2:B:2336:ARG:HH12	2.13	0.46
2:B:2605:MET:HE2	2:B:2605:MET:C	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3001:LYS:HE2	2:B:3045:VAL:HG23	1.96	0.46
2:B:3653:GLU:HB2	2:B:3660:ARG:HH22	1.80	0.46
2:C:1914:CYS:HB3	2:C:2090:ARG:HH21	1.80	0.46
2:C:2141:LEU:O	2:C:2144:ARG:HD3	2.15	0.46
2:C:2441:GLN:OE1	2:C:2454:PRO:HG3	2.15	0.46
2:C:3134:LEU:HB2	2:C:3162:PHE:CE2	2.51	0.46
2:D:2760:TYR:CE2	2:D:2768:LYS:HE3	2.51	0.46
2:D:3650:GLU:OE1	2:D:3659:LYS:NZ	2.49	0.46
2:D:4264:LEU:HA	2:D:4267:GLN:OE1	2.16	0.46
2:D:4274:MET:HE3	2:D:4279:MET:HE1	1.97	0.46
2:A:1489:CYS:O	2:A:1492:GLU:HG3	2.15	0.46
2:A:2172:MET:HE3	2:A:2217:HIS:CG	2.51	0.46
2:A:2884:LYS:HA	2:A:2887:GLU:OE2	2.15	0.46
2:B:20:VAL:HB	2:B:214:VAL:HG13	1.97	0.46
2:B:890:HIS:O	2:B:894:VAL:HG13	2.15	0.46
2:B:1011:ARG:HA	2:B:1014:GLN:CD	2.40	0.46
2:B:2974:TYR:CZ	2:B:2982:PHE:HZ	2.33	0.46
2:B:3605:MET:HB3	2:B:3605:MET:HE2	1.49	0.46
2:B:3924:ILE:HG21	2:B:3935:LEU:HD22	1.96	0.46
2:C:794:PHE:CG	2:C:798:ILE:HD13	2.50	0.46
2:C:1438:PRO:HG3	2:C:1494:MET:HE2	1.98	0.46
2:C:2590:ARG:HG2	2:C:2691:LYS:HE3	1.97	0.46
2:C:2884:LYS:HA	2:C:2887:GLU:OE2	2.15	0.46
2:C:2928:GLN:HA	2:C:2931:ARG:HE	1.80	0.46
2:D:20:VAL:HB	2:D:214:VAL:HG13	1.97	0.46
2:D:810:GLU:HB2	2:D:1614:ARG:HE	1.80	0.46
2:D:1819:VAL:HG13	2:D:1905:GLN:NE2	2.31	0.46
2:D:2229:LEU:HD13	2:D:2297:ARG:HB2	1.97	0.46
1:H:88:HIS:NE2	2:D:1776:TYR:OH	2.37	0.46
2:A:1016:TRP:CG	2:A:1027:ARG:HB3	2.51	0.46
2:A:1306:MET:HE1	2:A:1571:PHE:CZ	2.50	0.46
2:A:1549:SER:HB2	2:D:2830:ASN:HD21	1.79	0.46
2:A:2113:VAL:O	2:A:2117:ILE:HG13	2.16	0.46
2:A:2898:ILE:O	2:B:1498:GLN:NE2	2.49	0.46
2:A:2974:TYR:CZ	2:A:2982:PHE:HZ	2.33	0.46
2:A:3140:LEU:HB3	2:A:3155:LEU:HD13	1.97	0.46
2:B:546:LYS:O	2:B:550:GLN:HG2	2.16	0.46
2:B:703:TYR:HD2	2:B:858:THR:HG22	1.80	0.46
2:B:1100:ARG:HH12	2:B:1234:GLU:C	2.21	0.46
2:B:2009:ILE:HD12	2:B:3634:HIS:CD2	2.50	0.46
2:B:3134:LEU:HB2	2:B:3162:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:824:GLU:HA	2:C:1020:ILE:HD12	1.97	0.46
2:C:1016:TRP:CG	2:C:1027:ARG:HB3	2.51	0.46
2:C:3275:THR:O	2:C:3279:ASN:ND2	2.49	0.46
2:C:4118:PHE:HA	2:C:4121:LEU:HD12	1.96	0.46
2:C:4252:ILE:HG21	2:D:4707:MET:HG3	1.96	0.46
2:D:2550:HIS:HD2	2:D:2591:ARG:HD2	1.79	0.46
2:D:3025:ASP:O	2:D:3029:ILE:HD12	2.15	0.46
2:D:3275:THR:O	2:D:3279:ASN:ND2	2.49	0.46
2:D:4502:MET:SD	2:D:4585:PHE:HB3	2.55	0.46
2:A:546:LYS:O	2:A:550:GLN:HG2	2.16	0.46
2:A:717:GLY:N	2:A:720:ASP:OD2	2.42	0.46
2:A:824:GLU:HA	2:A:1020:ILE:HD12	1.97	0.46
2:A:2141:LEU:O	2:A:2144:ARG:HD3	2.15	0.46
2:A:2204:CYS:SG	2:A:2214:MET:HG2	2.56	0.46
2:A:2681:MET:SD	2:A:2914:THR:HA	2.56	0.46
2:A:3025:ASP:O	2:A:3029:ILE:HD12	2.15	0.46
2:A:4264:LEU:HA	2:A:4267:GLN:OE1	2.16	0.46
2:B:438:LYS:HD3	2:B:438:LYS:HA	1.70	0.46
2:B:1016:TRP:CG	2:B:1027:ARG:HB3	2.51	0.46
2:B:2705:PRO:HG3	2:B:2851:ILE:HG12	1.97	0.46
2:B:3650:GLU:OE1	2:B:3659:LYS:NZ	2.49	0.46
2:B:4569:GLU:HB3	2:B:4570:PRO:HD3	1.97	0.46
2:C:411:GLU:OE2	2:C:485:ARG:NE	2.46	0.46
2:C:902:TRP:HB3	2:C:918:LEU:CD2	2.44	0.46
2:C:4179:GLU:O	2:C:4179:GLU:HG2	2.15	0.46
2:D:28:ILE:HG22	2:D:29:HIS:HD2	1.80	0.46
2:D:2332:GLY:N	2:D:2336:ARG:HH12	2.13	0.46
2:D:3260:ARG:O	2:D:3260:ARG:HD3	2.15	0.46
2:A:483:LYS:HE2	2:A:483:LYS:HB2	1.80	0.46
2:B:808:HIS:O	2:B:1616:GLY:HA2	2.15	0.46
2:B:877:HIS:O	2:B:880:ARG:HD3	2.15	0.46
2:B:880:ARG:HH11	2:B:881:ILE:HB	1.81	0.46
2:B:886:ALA:HB1	2:B:929:ARG:HH12	1.81	0.46
2:B:4203:ALA:HA	2:B:4206:ILE:HG12	1.98	0.46
2:C:20:VAL:HB	2:C:214:VAL:HG13	1.97	0.46
2:C:2431:ASP:O	2:C:2435:VAL:HG23	2.16	0.46
2:C:2760:TYR:CE2	2:C:2768:LYS:HE3	2.51	0.46
2:C:3601:ALA:HA	2:C:3604:ARG:HH11	1.81	0.46
2:C:4203:ALA:HA	2:C:4206:ILE:HG12	1.98	0.46
2:C:4639:SER:O	2:C:4642:ASN:HB2	2.16	0.46
2:D:703:TYR:HD2	2:D:858:THR:HG22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:794:PHE:CG	2:D:798:ILE:HD13	2.50	0.46
2:D:808:HIS:O	2:D:1616:GLY:HA2	2.15	0.46
2:D:2009:ILE:HD12	2:D:3634:HIS:CD2	2.50	0.46
2:D:2431:ASP:O	2:D:2435:VAL:HG23	2.16	0.46
2:A:267:VAL:HG22	2:A:272:ARG:HH12	1.81	0.46
2:A:1649:GLU:HG2	2:A:1650:LEU:N	2.31	0.46
2:A:1819:VAL:HG13	2:A:1905:GLN:NE2	2.31	0.46
2:A:2178:VAL:HG21	2:A:2192:MET:SD	2.55	0.46
2:A:2705:PRO:HG3	2:A:2851:ILE:HG12	1.97	0.46
2:A:3275:THR:O	2:A:3279:ASN:ND2	2.49	0.46
2:B:2431:ASP:O	2:B:2435:VAL:HG23	2.16	0.46
2:B:2681:MET:SD	2:B:2914:THR:HA	2.56	0.46
2:B:3260:ARG:O	2:B:3260:ARG:HD3	2.15	0.46
2:C:886:ALA:HB1	2:C:929:ARG:HH12	1.81	0.46
2:C:1489:CYS:O	2:C:1492:GLU:HG3	2.15	0.46
2:C:1819:VAL:HG13	2:C:1905:GLN:NE2	2.31	0.46
2:C:2332:GLY:N	2:C:2336:ARG:HH12	2.13	0.46
2:C:2581:ARG:HD3	2:C:2583:SER:H	1.81	0.46
2:C:4689:LYS:HD2	2:C:4690:LYS:H	1.79	0.46
2:D:1649:GLU:HG2	2:D:1650:LEU:N	2.31	0.46
2:D:3025:ASP:O	2:D:3028:SER:OG	2.31	0.46
2:D:3601:ALA:HA	2:D:3604:ARG:HH11	1.81	0.46
2:D:4639:SER:O	2:D:4642:ASN:HB2	2.16	0.46
2:A:1415:ASP:N	2:A:1415:ASP:OD1	2.49	0.46
2:A:2059:GLN:HG3	2:A:2091:GLN:HB3	1.98	0.46
2:A:2290:TRP:CZ2	2:A:2388:ILE:HG12	2.51	0.46
2:A:2431:ASP:O	2:A:2435:VAL:HG23	2.16	0.46
2:A:2620:TYR:HB2	2:A:2627:TRP:HD1	1.81	0.46
2:A:3100:ALA:C	2:A:3103:PRO:HD2	2.41	0.46
2:A:3227:ARG:HH11	2:A:3228:TYR:HB3	1.81	0.46
2:B:794:PHE:CG	2:B:798:ILE:HD13	2.50	0.46
2:B:889:ILE:HA	2:B:892:LEU:HD12	1.98	0.46
2:B:1107:THR:HB	2:B:1113:MET:HE1	1.96	0.46
2:B:2928:GLN:HA	2:B:2931:ARG:HE	1.80	0.46
2:B:4264:LEU:HA	2:B:4267:GLN:OE1	2.16	0.46
2:B:4274:MET:HE3	2:B:4279:MET:HE1	1.97	0.46
2:C:808:HIS:O	2:C:1616:GLY:HA2	2.15	0.46
2:D:267:VAL:HG22	2:D:272:ARG:HH12	1.81	0.46
2:D:889:ILE:HA	2:D:892:LEU:HD12	1.98	0.46
2:D:1016:TRP:CG	2:D:1027:ARG:HB3	2.51	0.46
2:D:2141:LEU:O	2:D:2144:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2620:TYR:HB2	2:D:2627:TRP:HD1	1.81	0.46
2:D:3100:ALA:C	2:D:3103:PRO:HD2	2.41	0.46
2:D:3227:ARG:NH1	2:D:3228:TYR:HB3	2.30	0.46
2:A:20:VAL:HB	2:A:214:VAL:HG13	1.97	0.45
2:A:888:ASN:ND2	2:A:1060:TYR:OH	2.23	0.45
2:B:2191:LYS:O	2:B:2195:ASN:ND2	2.50	0.45
2:B:2581:ARG:HD3	2:B:2583:SER:H	1.81	0.45
2:B:2745:GLU:HA	2:B:2755:PRO:HB3	1.98	0.45
2:B:4631:ASP:OD1	2:B:4708:TRP:NE1	2.42	0.45
2:C:902:TRP:CB	2:C:918:LEU:HD21	2.42	0.45
2:C:1649:GLU:HG2	2:C:1650:LEU:N	2.31	0.45
2:C:2191:LYS:O	2:C:2195:ASN:ND2	2.49	0.45
2:C:3227:ARG:NH1	2:C:3228:TYR:HB3	2.31	0.45
2:D:66:THR:HG1	2:D:124:SER:HG	1.57	0.45
2:D:438:LYS:HD3	2:D:438:LYS:HA	1.69	0.45
2:D:2705:PRO:HG3	2:D:2851:ILE:HG12	1.97	0.45
2:A:1031:ARG:CZ	2:A:1031:ARG:HB3	2.44	0.45
2:A:2170:THR:O	2:A:2174:VAL:HG23	2.16	0.45
2:A:2745:GLU:HA	2:A:2755:PRO:HB3	1.98	0.45
2:A:3924:ILE:HG21	2:A:3935:LEU:HD22	1.96	0.45
2:A:4617:ILE:HG23	2:A:4665:ARG:NH2	2.30	0.45
2:B:1986:CYS:O	2:B:1993:ARG:NH2	2.48	0.45
2:B:2204:CYS:SG	2:B:2214:MET:HG2	2.56	0.45
2:B:2496:LEU:HD23	2:B:2520:LEU:HD13	1.99	0.45
2:B:2576:ILE:O	2:B:2580:LEU:HG	2.17	0.45
2:B:2760:TYR:CE2	2:B:2768:LYS:HE3	2.51	0.45
2:B:3100:ALA:C	2:B:3103:PRO:HD2	2.41	0.45
2:B:3275:THR:O	2:B:3279:ASN:ND2	2.49	0.45
2:B:3601:ALA:HA	2:B:3604:ARG:HH11	1.81	0.45
2:C:717:GLY:N	2:C:720:ASP:OD2	2.42	0.45
2:C:1031:ARG:CZ	2:C:1031:ARG:HB3	2.44	0.45
2:C:2498:ALA:O	2:C:2502:LEU:HD23	2.16	0.45
2:C:3054:LYS:O	2:C:3057:LEU:HG	2.16	0.45
2:D:2178:VAL:HG21	2:D:2192:MET:SD	2.56	0.45
2:D:2589:LEU:O	2:D:2593:VAL:HG13	2.17	0.45
2:D:3134:LEU:HB2	2:D:3162:PHE:CE2	2.51	0.45
2:D:3227:ARG:HH11	2:D:3228:TYR:HB3	1.81	0.45
2:D:3653:GLU:HB2	2:D:3660:ARG:HH22	1.80	0.45
1:H:19:LYS:HZ3	1:H:52:GLY:HA3	1.81	0.45
2:A:411:GLU:OE2	2:A:485:ARG:NE	2.46	0.45
2:A:447:LEU:HG	2:A:449:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3134:LEU:HB2	2:A:3162:PHE:CE2	2.51	0.45
2:A:3656:GLU:OE1	2:A:3656:GLU:N	2.50	0.45
2:B:267:VAL:HG22	2:B:272:ARG:HH12	1.81	0.45
2:B:307:SER:HB3	2:B:327:THR:HG22	1.97	0.45
2:B:1031:ARG:HH21	2:B:1038:LEU:CD1	2.11	0.45
2:B:2290:TRP:CZ2	2:B:2388:ILE:HG12	2.52	0.45
2:B:2620:TYR:HB2	2:B:2627:TRP:HD1	1.81	0.45
2:B:4252:ILE:HG21	2:C:4707:MET:HG3	1.97	0.45
2:B:4639:SER:O	2:B:4642:ASN:HB2	2.16	0.45
2:C:29:HIS:CE1	2:C:31:GLU:HG2	2.52	0.45
2:C:447:LEU:HG	2:C:449:ILE:HG12	1.98	0.45
2:C:916:PRO:HB3	2:C:923:LYS:HZ2	1.80	0.45
2:C:2113:VAL:O	2:C:2117:ILE:HG13	2.16	0.45
2:C:3260:ARG:O	2:C:3260:ARG:HD3	2.15	0.45
2:C:3650:GLU:OE1	2:C:3659:LYS:NZ	2.49	0.45
2:C:4631:ASP:OD1	2:C:4708:TRP:NE1	2.42	0.45
2:D:546:LYS:O	2:D:550:GLN:HG2	2.16	0.45
2:D:1438:PRO:HG3	2:D:1494:MET:HE2	1.98	0.45
2:D:1489:CYS:O	2:D:1492:GLU:HG3	2.15	0.45
2:D:1898:LEU:HD13	2:D:1902:VAL:HG12	1.99	0.45
2:D:2204:CYS:SG	2:D:2214:MET:HG2	2.56	0.45
2:D:2290:TRP:CZ2	2:D:2388:ILE:HG12	2.52	0.45
2:D:2581:ARG:HG2	2:D:2582:PRO:HD2	1.99	0.45
2:A:892:LEU:HD21	2:A:980:PRO:HD3	1.99	0.45
2:A:2498:ALA:O	2:A:2502:LEU:HD23	2.16	0.45
2:A:3981:MET:HE3	2:A:3981:MET:HB3	1.80	0.45
2:B:2059:GLN:HG3	2:B:2091:GLN:HB3	1.98	0.45
2:C:546:LYS:O	2:C:550:GLN:HG2	2.16	0.45
2:C:880:ARG:HH11	2:C:881:ILE:HB	1.81	0.45
2:C:889:ILE:HA	2:C:892:LEU:HD12	1.98	0.45
2:C:2576:ILE:O	2:C:2580:LEU:HG	2.17	0.45
2:C:2745:GLU:HA	2:C:2755:PRO:HB3	1.98	0.45
2:C:3054:LYS:O	2:C:3058:ARG:HG3	2.17	0.45
2:D:826:VAL:HG21	2:D:832:LEU:HB2	1.98	0.45
2:D:2496:LEU:HD23	2:D:2520:LEU:HD13	1.99	0.45
2:D:2576:ILE:O	2:D:2580:LEU:HG	2.17	0.45
2:D:3311:LYS:O	2:D:3315:LEU:N	2.49	0.45
2:D:3321:PRO:O	2:D:3324:GLU:HG3	2.17	0.45
2:A:29:HIS:CE1	2:A:31:GLU:HG2	2.52	0.45
2:A:911:ASN:OD1	2:A:912:LYS:N	2.50	0.45
2:A:2496:LEU:HD23	2:A:2520:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2581:ARG:HG2	2:A:2582:PRO:HD2	1.99	0.45
2:A:2642:ARG:HA	2:A:2676:LEU:HD11	1.99	0.45
2:A:2760:TYR:CE2	2:A:2768:LYS:HE3	2.51	0.45
2:A:2840:MET:HA	2:A:2843:MET:HG2	1.99	0.45
2:B:624:ALA:HB2	2:B:1667:LEU:HD12	1.99	0.45
2:B:911:ASN:OD1	2:B:912:LYS:N	2.50	0.45
2:B:2581:ARG:HG2	2:B:2582:PRO:HD2	1.99	0.45
2:B:3054:LYS:O	2:B:3057:LEU:HG	2.16	0.45
2:B:3068:LEU:O	2:B:3071:THR:OG1	2.25	0.45
2:B:3074:ASN:O	2:B:3077:GLN:HG3	2.17	0.45
2:B:3656:GLU:N	2:B:3656:GLU:OE1	2.50	0.45
2:C:131:CYS:SG	2:C:150:GLN:HB2	2.57	0.45
2:C:892:LEU:HD21	2:C:980:PRO:HD3	1.99	0.45
2:C:1031:ARG:NH2	2:C:1042:THR:HG21	2.21	0.45
2:C:1170:GLU:HG2	2:C:1172:THR:HG23	1.99	0.45
2:C:1945:ASN:O	2:C:1949:GLN:NE2	2.42	0.45
2:C:2170:THR:O	2:C:2174:VAL:HG23	2.16	0.45
2:C:2589:LEU:O	2:C:2593:VAL:HG13	2.17	0.45
2:D:29:HIS:CE1	2:D:31:GLU:HG2	2.52	0.45
2:D:1953:MET:HE3	2:D:1953:MET:HB3	1.85	0.45
2:D:2113:VAL:O	2:D:2117:ILE:HG13	2.16	0.45
2:D:3261:ALA:C	2:D:3263:MET:N	2.71	0.45
2:D:3728:GLN:HG2	2:D:3765:ILE:HA	1.98	0.45
2:A:1273:ILE:HB	2:A:1282:CYS:HB2	1.99	0.45
2:A:1986:CYS:O	2:A:1993:ARG:NH2	2.48	0.45
2:A:4274:MET:HE3	2:A:4279:MET:HE1	1.97	0.45
2:A:4639:SER:O	2:A:4642:ASN:HB2	2.16	0.45
2:B:131:CYS:SG	2:B:150:GLN:HB2	2.57	0.45
2:B:2642:ARG:HA	2:B:2676:LEU:HD11	1.99	0.45
2:B:3653:GLU:OE1	2:B:3660:ARG:NH1	2.50	0.45
2:C:2172:MET:HE3	2:C:2217:HIS:CG	2.51	0.45
2:C:2620:TYR:HB2	2:C:2627:TRP:HD1	1.82	0.45
2:C:3227:ARG:HH11	2:C:3228:TYR:HB3	1.82	0.45
2:C:4052:MET:HE1	2:C:4066:LEU:HB2	1.98	0.45
2:C:4602:ARG:NH1	2:C:4627:LYS:HG3	2.32	0.45
2:D:3054:LYS:O	2:D:3057:LEU:HG	2.16	0.45
2:D:3140:LEU:HB3	2:D:3155:LEU:HD13	1.97	0.45
2:A:2191:LYS:O	2:A:2195:ASN:ND2	2.49	0.45
2:A:3653:GLU:OE1	2:A:3660:ARG:NH1	2.50	0.45
2:A:4052:MET:HE1	2:A:4066:LEU:HB2	1.98	0.45
2:A:4203:ALA:HA	2:A:4206:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1438:PRO:HG3	2:B:1494:MET:HE2	1.98	0.45
2:B:1649:GLU:HG2	2:B:1650:LEU:N	2.31	0.45
2:B:2589:LEU:O	2:B:2593:VAL:HG13	2.16	0.45
2:B:3260:ARG:HH11	2:B:3264:CYS:HA	1.79	0.45
2:B:3321:PRO:O	2:B:3324:GLU:HG3	2.17	0.45
2:B:4100:VAL:HG22	2:B:4133:LEU:HD13	1.99	0.45
2:C:911:ASN:OD1	2:C:912:LYS:N	2.50	0.45
2:C:1031:ARG:HH22	2:C:1042:THR:CB	2.30	0.45
2:C:2496:LEU:HD23	2:C:2520:LEU:HD13	1.99	0.45
2:C:2581:ARG:HG2	2:C:2582:PRO:HD2	1.99	0.45
2:C:2788:ARG:HH22	2:C:2908:LYS:CE	2.30	0.45
2:D:892:LEU:HD21	2:D:980:PRO:HD3	1.99	0.45
2:D:902:TRP:HB3	2:D:918:LEU:CD2	2.44	0.45
2:D:1957:LEU:HG	2:D:1961:LYS:HB3	1.97	0.45
2:D:4735:ASN:HB3	2:D:4738:PHE:CD2	2.52	0.45
1:F:12:ASP:HB2	1:F:14:ARG:HH12	1.81	0.45
1:G:12:ASP:HB2	1:G:14:ARG:HH12	1.81	0.45
2:A:624:ALA:HB2	2:A:1667:LEU:HD12	1.99	0.45
2:A:889:ILE:HA	2:A:892:LEU:HD12	1.98	0.45
2:A:2303:ARG:HH11	2:A:2304:PHE:HA	1.82	0.45
2:B:826:VAL:HG21	2:B:832:LEU:HB2	1.98	0.45
2:B:892:LEU:HD21	2:B:980:PRO:HD3	1.99	0.45
2:B:1031:ARG:CZ	2:B:1031:ARG:HB3	2.44	0.45
2:B:1044:LYS:HD3	2:B:1044:LYS:HA	1.77	0.45
2:B:2788:ARG:HH22	2:B:2908:LYS:CE	2.30	0.45
2:B:2840:MET:HA	2:B:2843:MET:HG2	1.99	0.45
2:B:4617:ILE:HG23	2:B:4665:ARG:NH2	2.30	0.45
2:C:826:VAL:HG21	2:C:832:LEU:HB2	1.98	0.45
2:C:3100:ALA:C	2:C:3103:PRO:HD2	2.42	0.45
2:C:3605:MET:HE2	2:C:3605:MET:HB3	1.49	0.45
2:D:131:CYS:SG	2:D:150:GLN:HB2	2.57	0.45
2:D:911:ASN:OD1	2:D:912:LYS:N	2.50	0.45
2:D:2498:ALA:O	2:D:2502:LEU:HD23	2.16	0.45
2:D:3653:GLU:OE1	2:D:3660:ARG:NH1	2.50	0.45
2:D:4602:ARG:NH1	2:D:4627:LYS:HG3	2.32	0.45
1:E:12:ASP:HB2	1:E:14:ARG:HH12	1.81	0.45
2:A:131:CYS:SG	2:A:150:GLN:HB2	2.57	0.45
2:A:677:LEU:HD12	2:A:801:ARG:O	2.17	0.45
2:A:1963:LYS:HE2	2:A:1963:LYS:HB2	1.77	0.45
2:A:2788:ARG:HH22	2:A:2908:LYS:CE	2.30	0.45
2:A:3763:ILE:HD11	2:A:3838:ASP:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:HIS:CE1	2:B:31:GLU:HG2	2.52	0.45
2:B:1031:ARG:HH22	2:B:1042:THR:CB	2.30	0.45
2:B:3227:ARG:HH11	2:B:3228:TYR:HB3	1.81	0.45
2:C:1415:ASP:OD1	2:C:1415:ASP:N	2.49	0.45
2:C:2204:CYS:SG	2:C:2214:MET:HG2	2.56	0.45
2:D:307:SER:HB3	2:D:327:THR:HG22	1.97	0.45
2:D:902:TRP:CB	2:D:918:LEU:HD21	2.42	0.45
2:D:1226:TYR:HD1	2:D:1229:ILE:HD11	1.82	0.45
2:D:1273:ILE:HB	2:D:1282:CYS:HB2	1.99	0.45
2:D:2642:ARG:HA	2:D:2676:LEU:HD11	1.99	0.45
2:A:1226:TYR:HD1	2:A:1229:ILE:HD11	1.82	0.45
2:A:2761:LYS:HA	2:A:2761:LYS:HD3	1.83	0.45
2:A:3207:ASN:OD1	2:A:3208:ILE:N	2.50	0.45
2:A:3601:ALA:HA	2:A:3604:ARG:HH11	1.81	0.45
2:A:4100:VAL:HG22	2:A:4133:LEU:HD13	1.99	0.45
2:A:4625:ASP:OD1	2:A:4625:ASP:N	2.46	0.45
2:B:447:LEU:HG	2:B:449:ILE:HG12	1.98	0.45
2:B:1819:VAL:HG13	2:B:1905:GLN:NE2	2.31	0.45
2:B:2322:ARG:NH1	2:C:189:GLU:OE2	2.50	0.45
2:B:2498:ALA:O	2:B:2502:LEU:HD23	2.16	0.45
2:B:3689:MET:HE1	2:B:3753:PRO:O	2.17	0.45
2:B:3728:GLN:HG2	2:B:3765:ILE:HA	1.98	0.45
2:B:4084:VAL:O	2:B:4088:HIS:HB3	2.17	0.45
2:C:2290:TRP:CZ2	2:C:2388:ILE:HG12	2.52	0.45
2:C:2926:LEU:HB3	2:C:3003:MET:HE2	1.99	0.45
2:C:3763:ILE:HD11	2:C:3838:ASP:O	2.17	0.45
2:D:1598:ARG:NH2	2:D:1601:ASN:OD1	2.47	0.45
2:D:2232:PRO:C	2:D:2234:MET:H	2.25	0.45
2:D:4100:VAL:HG22	2:D:4133:LEU:HD13	1.99	0.45
2:D:4203:ALA:HA	2:D:4206:ILE:HG12	1.98	0.45
2:A:1839:LEU:HA	2:A:1842:ILE:HG12	1.99	0.44
2:A:1967:SER:O	2:A:1972:GLN:NE2	2.40	0.44
2:A:2576:ILE:O	2:A:2580:LEU:HG	2.17	0.44
2:A:2926:LEU:HB3	2:A:3003:MET:HE2	1.99	0.44
2:A:4602:ARG:NH1	2:A:4627:LYS:HG3	2.32	0.44
2:B:1273:ILE:HB	2:B:1282:CYS:HB2	1.99	0.44
2:B:1694:MET:HE2	2:B:1694:MET:HB2	1.92	0.44
2:B:1839:LEU:HA	2:B:1842:ILE:HG12	1.99	0.44
2:B:3166:PHE:CD1	2:B:3167:PRO:HD2	2.53	0.44
2:B:3763:ILE:HD11	2:B:3838:ASP:O	2.17	0.44
2:B:4602:ARG:NH1	2:B:4627:LYS:HG3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:624:ALA:HB2	2:C:1667:LEU:HD12	1.99	0.44
2:C:1199:ASP:OD1	2:C:1199:ASP:N	2.45	0.44
2:C:1727:VAL:HG11	2:C:1926:VAL:HG21	1.99	0.44
2:C:2798:MET:SD	2:D:1498:GLN:HG3	2.58	0.44
2:C:3311:LYS:O	2:C:3315:LEU:N	2.49	0.44
2:C:3321:PRO:O	2:C:3324:GLU:HG3	2.17	0.44
2:C:3656:GLU:OE1	2:C:3656:GLU:N	2.50	0.44
2:C:4264:LEU:HA	2:C:4267:GLN:OE1	2.16	0.44
2:D:447:LEU:HG	2:D:449:ILE:HG12	1.98	0.44
2:D:2586:GLN:HE22	2:D:2590:ARG:NH2	2.15	0.44
2:A:880:ARG:HH11	2:A:881:ILE:HB	1.81	0.44
2:A:894:VAL:HG23	2:A:895:MET:HE2	2.00	0.44
2:A:1727:VAL:HG11	2:A:1926:VAL:HG21	1.99	0.44
2:A:3054:LYS:O	2:A:3058:ARG:HG3	2.17	0.44
2:B:2926:LEU:HB3	2:B:3003:MET:HE2	1.99	0.44
2:B:4735:ASN:HB3	2:B:4738:PHE:CD2	2.52	0.44
2:C:1018:TYR:CD1	2:C:1030:PRO:HA	2.52	0.44
2:C:4100:VAL:HG22	2:C:4133:LEU:HD13	1.99	0.44
2:D:677:LEU:HD12	2:D:801:ARG:O	2.17	0.44
2:D:824:GLU:HA	2:D:1020:ILE:HD12	1.97	0.44
2:D:3216:GLU:HA	2:D:3219:VAL:HG22	2.00	0.44
2:D:3656:GLU:OE1	2:D:3656:GLU:N	2.50	0.44
2:D:3763:ILE:HD11	2:D:3838:ASP:O	2.17	0.44
2:A:1170:GLU:HG2	2:A:1172:THR:HG23	1.99	0.44
2:A:1898:LEU:HD13	2:A:1902:VAL:HG12	1.98	0.44
2:A:1971:GLU:HA	2:A:1974:ASN:HD22	1.82	0.44
2:A:2434:GLY:O	2:A:2438:ILE:HG13	2.18	0.44
2:A:2586:GLN:HE22	2:A:2590:ARG:NH2	2.15	0.44
2:A:3054:LYS:O	2:A:3057:LEU:HG	2.16	0.44
2:A:3288:LEU:HD22	2:A:3332:THR:HG21	2.00	0.44
2:A:3321:PRO:O	2:A:3324:GLU:HG3	2.17	0.44
2:B:954:ASP:OD2	2:B:957:ALA:N	2.51	0.44
2:B:1991:GLU:HG2	2:B:1992:ILE:N	2.32	0.44
2:B:3729:ALA:HA	2:B:3732:HIS:ND1	2.32	0.44
2:B:4052:MET:HE1	2:B:4066:LEU:HB2	1.98	0.44
2:B:4277:LYS:HD2	2:B:4277:LYS:HA	1.73	0.44
2:C:34:LYS:H	2:C:53:SER:HB3	1.82	0.44
2:C:849:ASP:OD1	2:C:1214:ARG:NE	2.51	0.44
2:C:1226:TYR:HD1	2:C:1229:ILE:HD11	1.82	0.44
2:C:1839:LEU:HA	2:C:1842:ILE:HG12	1.99	0.44
2:D:624:ALA:HB2	2:D:1667:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1931:ASP:OD1	2:D:1932:PHE:N	2.51	0.44
2:D:3054:LYS:O	2:D:3058:ARG:HG3	2.17	0.44
2:D:3068:LEU:O	2:D:3071:THR:OG1	2.25	0.44
2:D:3074:ASN:O	2:D:3077:GLN:HG3	2.17	0.44
2:A:2379:ASP:OD1	2:A:2380:ASP:N	2.51	0.44
2:A:3729:ALA:HA	2:A:3732:HIS:ND1	2.32	0.44
2:A:4631:ASP:OD1	2:A:4708:TRP:NE1	2.42	0.44
2:A:4735:ASN:HB3	2:A:4738:PHE:CD2	2.52	0.44
2:B:677:LEU:HD12	2:B:801:ARG:O	2.17	0.44
2:B:1168:MET:HE3	2:B:1168:MET:HB3	1.93	0.44
2:B:1170:GLU:HG2	2:B:1172:THR:HG23	1.99	0.44
2:B:2303:ARG:HH11	2:B:2304:PHE:HA	1.82	0.44
2:B:3300:ALA:O	2:B:3304:GLN:HG2	2.18	0.44
2:C:555:LEU:HD12	2:C:588:ILE:HD11	1.99	0.44
2:C:674:TYR:HE1	2:C:756:SER:HB2	1.83	0.44
2:C:1931:ASP:OD1	2:C:1932:PHE:N	2.51	0.44
2:C:2726:GLU:HG2	2:C:2760:TYR:CD2	2.52	0.44
2:C:2736:LYS:HD3	2:C:2736:LYS:HA	1.82	0.44
2:C:3695:MET:HB3	2:C:3731:LEU:HD11	2.00	0.44
2:C:3728:GLN:HG2	2:C:3765:ILE:HA	1.98	0.44
2:C:4084:VAL:O	2:C:4088:HIS:HB3	2.17	0.44
2:D:894:VAL:HG23	2:D:895:MET:HE2	2.00	0.44
2:D:1415:ASP:OD1	2:D:1415:ASP:N	2.49	0.44
2:D:1727:VAL:HG11	2:D:1926:VAL:HG21	1.99	0.44
2:D:2726:GLU:HG2	2:D:2760:TYR:CD2	2.52	0.44
2:D:2788:ARG:HH22	2:D:2908:LYS:CE	2.30	0.44
2:D:2926:LEU:HB3	2:D:3003:MET:HE2	1.99	0.44
2:D:3288:LEU:HD22	2:D:3332:THR:HG21	2.00	0.44
2:A:28:ILE:HG22	2:A:29:HIS:CD2	2.53	0.44
2:A:1598:ARG:NH2	2:A:1601:ASN:OD1	2.47	0.44
2:A:3216:GLU:HA	2:A:3219:VAL:HG22	2.00	0.44
2:B:28:ILE:HG22	2:B:29:HIS:CD2	2.53	0.44
2:B:2232:PRO:C	2:B:2234:MET:H	2.25	0.44
2:B:3043:ARG:HH21	2:B:3117:PHE:HD1	1.66	0.44
2:B:3054:LYS:O	2:B:3058:ARG:HG3	2.17	0.44
2:B:3695:MET:HB3	2:B:3731:LEU:HD11	2.00	0.44
2:C:1971:GLU:HA	2:C:1974:ASN:HD22	1.82	0.44
2:C:1991:GLU:HG2	2:C:1992:ILE:N	2.32	0.44
2:C:2586:GLN:HE22	2:C:2590:ARG:NH2	2.15	0.44
2:C:4956:ASP:OD1	2:C:4957:CYS:N	2.50	0.44
2:D:1031:ARG:HH22	2:D:1042:THR:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1692:LYS:HB3	2:D:1692:LYS:HE3	1.86	0.44
2:D:2833:LEU:HB2	2:D:2894:LYS:NZ	2.22	0.44
2:D:2840:MET:HA	2:D:2843:MET:HG2	1.99	0.44
2:D:3712:LYS:HE3	2:D:3712:LYS:HB2	1.69	0.44
2:D:4084:VAL:O	2:D:4088:HIS:HB3	2.17	0.44
2:A:1438:PRO:HG3	2:A:1494:MET:HE2	1.98	0.44
2:A:1953:MET:HE3	2:A:1953:MET:HB3	1.85	0.44
2:A:2392:TYR:O	2:A:2396:ILE:HD12	2.18	0.44
2:A:2589:LEU:O	2:A:2593:VAL:HG13	2.17	0.44
2:A:3016:ARG:HA	2:A:3096:TYR:CZ	2.53	0.44
2:A:3074:ASN:O	2:A:3077:GLN:HG3	2.17	0.44
2:B:555:LEU:HD12	2:B:588:ILE:HD11	2.00	0.44
2:B:2443:PRO:HG3	2:B:2454:PRO:HD2	1.99	0.44
2:B:2729:HIS:CG	2:B:2763:LEU:HD22	2.53	0.44
2:B:3284:ILE:HD11	2:B:3296:MET:HE2	2.00	0.44
2:C:1898:LEU:HD13	2:C:1902:VAL:HG12	1.99	0.44
2:C:2642:ARG:HA	2:C:2676:LEU:HD11	1.99	0.44
2:C:3061:LEU:HD23	2:C:3061:LEU:HA	1.84	0.44
2:C:3216:GLU:HA	2:C:3219:VAL:HG22	2.00	0.44
2:C:4270:LYS:HE3	2:C:4270:LYS:HB3	1.84	0.44
2:D:674:TYR:OH	2:D:676:GLU:OE1	2.31	0.44
2:D:2194:ALA:HA	2:D:2237:SER:HB3	2.00	0.44
2:D:2676:LEU:HD23	2:D:2676:LEU:HA	1.83	0.44
2:D:2745:GLU:HA	2:D:2755:PRO:HB3	1.98	0.44
2:D:4924:TYR:CZ	2:D:4928:LYS:HD2	2.53	0.44
1:G:67:MET:SD	1:G:73:ALA:HB3	2.58	0.44
1:H:67:MET:SD	1:H:73:ALA:HB3	2.58	0.44
2:A:555:LEU:HD12	2:A:588:ILE:HD11	2.00	0.44
2:A:2179:LEU:HD13	2:A:2224:ASN:HD22	1.83	0.44
2:A:2844:MET:HE2	2:A:2848:TYR:CE2	2.53	0.44
2:A:2905:ARG:NH1	2:A:2906:GLY:H	2.15	0.44
2:A:3300:ALA:O	2:A:3304:GLN:HG2	2.18	0.44
2:A:3689:MET:HE1	2:A:3753:PRO:O	2.17	0.44
2:A:4956:ASP:OD1	2:A:4957:CYS:N	2.50	0.44
2:B:36:CYS:SG	2:B:65:CYS:HB3	2.58	0.44
2:B:1007:TRP:CZ2	2:B:1011:ARG:HD3	2.53	0.44
2:B:1748:LEU:HD23	2:B:1748:LEU:HA	1.84	0.44
2:B:1971:GLU:HA	2:B:1974:ASN:HD22	1.82	0.44
2:B:2831:VAL:HG22	2:C:1435:GLY:CA	2.47	0.44
2:C:954:ASP:OD2	2:C:957:ALA:N	2.51	0.44
2:C:2232:PRO:C	2:C:2234:MET:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2379:ASP:OD1	2:C:2380:ASP:N	2.51	0.44
2:C:3246:MET:O	2:C:3250:TRP:HB2	2.17	0.44
2:C:3288:LEU:HD22	2:C:3332:THR:HG21	2.00	0.44
2:C:3300:ALA:O	2:C:3304:GLN:HG2	2.18	0.44
2:C:4735:ASN:HB3	2:C:4738:PHE:CD2	2.52	0.44
2:D:456:LEU:HD23	2:D:456:LEU:HA	1.84	0.44
2:D:1967:SER:O	2:D:1972:GLN:NE2	2.40	0.44
2:D:2443:PRO:HG3	2:D:2454:PRO:HD2	1.99	0.44
2:D:3691:TYR:O	2:D:3695:MET:HG3	2.18	0.44
1:H:12:ASP:HB2	1:H:14:ARG:HH12	1.81	0.44
2:A:849:ASP:OD1	2:A:1214:ARG:NE	2.51	0.44
2:A:4924:TYR:CZ	2:A:4928:LYS:HD2	2.53	0.44
2:B:66:THR:HG1	2:B:124:SER:HG	1.64	0.44
2:B:849:ASP:OD1	2:B:1214:ARG:NE	2.51	0.44
2:B:1018:TYR:CD1	2:B:1030:PRO:HA	2.52	0.44
2:B:1929:SER:O	2:B:1933:VAL:HG12	2.18	0.44
2:B:3102:LEU:HB2	2:B:3103:PRO:HD3	2.00	0.44
2:B:4060:GLN:O	2:B:4064:GLU:OE1	2.36	0.44
2:B:4818:TYR:HA	2:C:4848:ILE:HD11	1.99	0.44
2:C:36:CYS:SG	2:C:65:CYS:HB3	2.58	0.44
2:C:1979:PHE:HZ	2:C:1996:LEU:HB3	1.83	0.44
2:C:2666:LEU:HD13	2:C:2966:VAL:HA	2.00	0.44
2:C:2729:HIS:CG	2:C:2763:LEU:HD22	2.53	0.44
2:C:3074:ASN:O	2:C:3077:GLN:HG3	2.17	0.44
2:C:3284:ILE:HD11	2:C:3296:MET:HE2	2.00	0.44
2:C:3653:GLU:OE1	2:C:3660:ARG:NH1	2.50	0.44
2:D:674:TYR:HE1	2:D:756:SER:HB2	1.83	0.44
2:D:1829:LEU:HD12	2:D:1829:LEU:HA	1.88	0.44
2:D:1945:ASN:O	2:D:1949:GLN:NE2	2.42	0.44
2:D:2581:ARG:HD3	2:D:2583:SER:H	1.81	0.44
2:D:4052:MET:HE1	2:D:4066:LEU:HB2	1.98	0.44
2:A:886:ALA:HB1	2:A:929:ARG:HH12	1.81	0.44
2:A:1014:GLN:HB3	2:A:1027:ARG:NH2	2.31	0.44
2:A:1018:TYR:CD1	2:A:1030:PRO:HA	2.52	0.44
2:A:1100:ARG:HH12	2:A:1234:GLU:C	2.21	0.44
2:A:1434:PRO:HB2	2:D:2827:ASP:CG	2.43	0.44
2:A:1473:LYS:NZ	2:A:1475:LYS:HB2	2.33	0.44
2:A:2232:PRO:C	2:A:2234:MET:H	2.25	0.44
2:A:2443:PRO:HG3	2:A:2454:PRO:HD2	1.99	0.44
2:A:2729:HIS:CG	2:A:2763:LEU:HD22	2.53	0.44
2:A:3284:ILE:HD11	2:A:3296:MET:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3728:GLN:HG2	2:A:3765:ILE:HA	1.98	0.44
2:B:2379:ASP:OD1	2:B:2380:ASP:N	2.51	0.44
2:B:2434:GLY:O	2:B:2438:ILE:HG13	2.18	0.44
2:B:2726:GLU:HG2	2:B:2760:TYR:CD2	2.52	0.44
2:B:3216:GLU:HA	2:B:3219:VAL:HG22	2.00	0.44
2:C:2059:GLN:HG3	2:C:2091:GLN:HB3	1.98	0.44
2:C:2434:GLY:O	2:C:2438:ILE:HG13	2.17	0.44
2:C:2831:VAL:HB	2:C:2894:LYS:CD	2.46	0.44
2:C:2840:MET:HA	2:C:2843:MET:HG2	1.99	0.44
2:C:2844:MET:HE2	2:C:2848:TYR:CE2	2.53	0.44
2:C:3260:ARG:HH11	2:C:3264:CYS:HA	1.79	0.44
2:D:1007:TRP:CZ2	2:D:1011:ARG:HD3	2.53	0.44
2:D:1473:LYS:NZ	2:D:1475:LYS:HB2	2.33	0.44
2:D:2179:LEU:HD13	2:D:2224:ASN:HD22	1.83	0.44
2:D:2379:ASP:OD1	2:D:2380:ASP:N	2.51	0.44
2:D:2392:TYR:O	2:D:2396:ILE:HD12	2.18	0.44
2:D:2729:HIS:CG	2:D:2763:LEU:HD22	2.53	0.44
2:D:3246:MET:O	2:D:3250:TRP:HB2	2.17	0.44
2:D:3300:ALA:O	2:D:3304:GLN:HG2	2.18	0.44
2:A:1031:ARG:HH22	2:A:1042:THR:CB	2.30	0.43
2:A:1929:SER:O	2:A:1933:VAL:HG12	2.18	0.43
2:A:1931:ASP:OD1	2:A:1932:PHE:N	2.51	0.43
2:A:2726:GLU:HG2	2:A:2760:TYR:CD2	2.52	0.43
2:A:3166:PHE:CD1	2:A:3167:PRO:HD2	2.53	0.43
2:A:3649:ALA:C	2:A:3652:PRO:HD2	2.43	0.43
2:B:1014:GLN:HB3	2:B:1027:ARG:NH2	2.30	0.43
2:B:1598:ARG:NH2	2:B:1601:ASN:OD1	2.47	0.43
2:B:1727:VAL:HG11	2:B:1926:VAL:HG21	1.99	0.43
2:B:2392:TYR:O	2:B:2396:ILE:HD12	2.18	0.43
2:B:3712:LYS:HE3	2:B:3712:LYS:HB2	1.70	0.43
2:C:2194:ALA:HA	2:C:2237:SER:HB3	2.00	0.43
2:C:3649:ALA:C	2:C:3652:PRO:HD2	2.43	0.43
2:D:36:CYS:SG	2:D:65:CYS:HB3	2.58	0.43
2:D:1043:LYS:HB2	2:D:1043:LYS:HE2	1.54	0.43
2:D:1170:GLU:HG2	2:D:1172:THR:HG23	1.99	0.43
2:D:1971:GLU:HA	2:D:1974:ASN:HD22	1.82	0.43
2:D:3061:LEU:HD23	2:D:3061:LEU:HA	1.84	0.43
2:D:3649:ALA:C	2:D:3652:PRO:HD2	2.43	0.43
2:D:3729:ALA:HA	2:D:3732:HIS:ND1	2.32	0.43
2:A:826:VAL:HG21	2:A:832:LEU:HB2	1.98	0.43
2:A:1007:TRP:CZ2	2:A:1011:ARG:HD3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2194:ALA:HA	2:A:2237:SER:HB3	2.00	0.43
2:A:2581:ARG:HD3	2:A:2583:SER:H	1.81	0.43
2:A:3043:ARG:HH21	2:A:3117:PHE:HD1	1.66	0.43
2:A:4806:CYS:HA	2:A:4812:CYS:HB2	2.00	0.43
2:B:1226:TYR:HD1	2:B:1229:ILE:HD11	1.82	0.43
2:B:1473:LYS:NZ	2:B:1475:LYS:HB2	2.33	0.43
2:B:3235:MET:O	2:B:3299:LEU:HD21	2.19	0.43
2:B:3246:MET:O	2:B:3250:TRP:HB2	2.17	0.43
2:B:3288:LEU:HD22	2:B:3332:THR:HG21	2.00	0.43
2:B:4956:ASP:OD1	2:B:4957:CYS:N	2.50	0.43
2:C:677:LEU:HD12	2:C:801:ARG:O	2.17	0.43
2:C:1273:ILE:HB	2:C:1282:CYS:HB2	1.99	0.43
2:C:1438:PRO:CG	2:C:1494:MET:HE2	2.49	0.43
2:C:2443:PRO:HG3	2:C:2454:PRO:HD2	1.99	0.43
2:C:2504:THR:OG1	2:C:2507:LEU:HB2	2.18	0.43
2:C:3102:LEU:HB2	2:C:3103:PRO:HD3	2.00	0.43
2:C:3689:MET:HE1	2:C:3753:PRO:O	2.17	0.43
2:C:3729:ALA:HA	2:C:3732:HIS:ND1	2.32	0.43
2:C:4277:LYS:HD2	2:C:4277:LYS:HA	1.73	0.43
2:C:4818:TYR:HA	2:D:4848:ILE:HD11	1.99	0.43
2:D:1979:PHE:HZ	2:D:1996:LEU:HB3	1.83	0.43
2:A:3246:MET:O	2:A:3250:TRP:HB2	2.17	0.43
2:A:3260:ARG:HH11	2:A:3264:CYS:HA	1.79	0.43
2:A:3695:MET:HB3	2:A:3731:LEU:HD11	2.00	0.43
2:A:4270:LYS:HE3	2:A:4270:LYS:HB3	1.83	0.43
2:B:1415:ASP:OD1	2:B:1415:ASP:N	2.49	0.43
2:B:1794:MET:HE3	2:B:1794:MET:HB2	1.87	0.43
2:B:1963:LYS:HB2	2:B:1963:LYS:HE2	1.77	0.43
2:B:1979:PHE:HZ	2:B:1996:LEU:HB3	1.83	0.43
2:C:1473:LYS:NZ	2:C:1475:LYS:HB2	2.33	0.43
2:C:4060:GLN:O	2:C:4064:GLU:OE1	2.36	0.43
2:D:555:LEU:HD12	2:D:588:ILE:HD11	2.00	0.43
2:D:880:ARG:HH11	2:D:881:ILE:HB	1.81	0.43
2:D:2844:MET:HE2	2:D:2848:TYR:CE2	2.53	0.43
2:D:3001:LYS:HD2	2:D:3041:ASP:OD2	2.18	0.43
2:D:3043:ARG:HG3	2:D:3047:LYS:HZ2	1.83	0.43
2:D:3069:GLU:HG3	2:D:3132:ARG:HH11	1.83	0.43
2:D:3166:PHE:CD1	2:D:3167:PRO:HD2	2.53	0.43
2:D:4060:GLN:O	2:D:4064:GLU:OE1	2.36	0.43
2:B:894:VAL:HG23	2:B:895:MET:HE2	2.00	0.43
2:B:1042:THR:HG23	5:B:5004:KVR:C15	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2504:THR:OG1	2:B:2507:LEU:HB2	2.19	0.43
2:B:2586:GLN:HE22	2:B:2590:ARG:NH2	2.15	0.43
2:C:1091:GLU:HB3	2:C:1094:TYR:HD2	1.84	0.43
2:C:2511:ASP:HA	2:C:2514:LEU:HD12	2.01	0.43
2:D:28:ILE:HG22	2:D:29:HIS:CD2	2.53	0.43
2:D:291:TRP:O	2:D:343:ARG:NH1	2.52	0.43
2:D:886:ALA:HB1	2:D:929:ARG:HH12	1.81	0.43
2:D:1018:TYR:CD1	2:D:1030:PRO:HA	2.52	0.43
2:D:1716:THR:O	2:D:1720:MET:HG3	2.18	0.43
2:D:1968:PRO:O	2:D:1972:GLN:HG3	2.19	0.43
2:D:1991:GLU:HG2	2:D:1992:ILE:N	2.32	0.43
2:D:4267:GLN:O	2:D:4271:VAL:HG23	2.19	0.43
2:D:4956:ASP:OD1	2:D:4957:CYS:N	2.50	0.43
2:A:674:TYR:OH	2:A:676:GLU:OE1	2.31	0.43
2:A:1716:THR:O	2:A:1720:MET:HG3	2.18	0.43
2:A:2423:LEU:HD23	2:A:2426:LEU:HD12	2.01	0.43
2:A:2429:LEU:HD21	2:A:2483:PHE:CE1	2.54	0.43
2:A:2782:MET:HG2	2:A:2787:TRP:CE3	2.54	0.43
2:A:4136:ILE:HG22	2:A:4917:ASN:HB3	2.01	0.43
2:A:4848:ILE:HD11	2:D:4818:TYR:HD1	1.83	0.43
2:B:34:LYS:H	2:B:53:SER:HB3	1.82	0.43
2:B:257:ARG:NH2	2:B:272:ARG:HG3	2.33	0.43
2:B:674:TYR:HE1	2:B:756:SER:HB2	1.83	0.43
2:B:1438:PRO:CG	2:B:1494:MET:HE2	2.49	0.43
2:B:1953:MET:HE3	2:B:1953:MET:HB3	1.85	0.43
2:B:2511:ASP:HA	2:B:2514:LEU:HD12	2.00	0.43
2:B:2666:LEU:HD13	2:B:2966:VAL:HA	2.00	0.43
2:B:3069:GLU:HG3	2:B:3132:ARG:HH11	1.83	0.43
2:B:3207:ASN:OD1	2:B:3208:ILE:N	2.50	0.43
2:B:4924:TYR:CZ	2:B:4928:LYS:HD2	2.53	0.43
2:C:894:VAL:HG23	2:C:895:MET:HE2	2.00	0.43
2:C:2429:LEU:HD21	2:C:2483:PHE:CE1	2.54	0.43
2:C:3003:MET:HE3	2:C:3003:MET:HB2	1.95	0.43
2:C:3166:PHE:CD1	2:C:3167:PRO:HD2	2.53	0.43
2:C:3691:TYR:O	2:C:3695:MET:HG3	2.18	0.43
2:D:849:ASP:OD1	2:D:1214:ARG:NE	2.51	0.43
2:D:1042:THR:HG23	5:D:5004:KVR:C15	2.49	0.43
2:D:2146:LEU:O	2:D:2150:MET:HG2	2.18	0.43
2:D:3235:MET:O	2:D:3299:LEU:HD21	2.19	0.43
2:D:3650:GLU:HB2	2:D:3651:PRO:HD3	2.01	0.43
2:D:3689:MET:HE1	2:D:3753:PRO:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3695:MET:HB3	2:D:3731:LEU:HD11	2.00	0.43
1:F:67:MET:SD	1:F:73:ALA:HB3	2.58	0.43
2:A:34:LYS:H	2:A:53:SER:HB3	1.82	0.43
2:A:538:ALA:O	2:A:542:ARG:HB2	2.19	0.43
2:A:902:TRP:HZ2	2:A:915:HIS:ND1	2.17	0.43
2:A:3217:GLU:O	2:A:3220:GLU:HG3	2.19	0.43
2:A:3288:LEU:HA	2:A:3292:GLU:OE1	2.19	0.43
2:B:456:LEU:HD23	2:B:456:LEU:HA	1.84	0.43
2:B:902:TRP:HZ2	2:B:915:HIS:ND1	2.17	0.43
2:B:1689:ILE:HD13	2:B:1703:TYR:CD1	2.54	0.43
2:B:1898:LEU:HD13	2:B:1902:VAL:HG12	1.99	0.43
2:B:1945:ASN:O	2:B:1949:GLN:NE2	2.42	0.43
2:B:2790:GLU:O	2:B:2901:TYR:HA	2.19	0.43
2:B:3217:GLU:O	2:B:3220:GLU:HG3	2.19	0.43
2:C:694:ARG:HD3	2:C:733:TRP:HB2	2.01	0.43
2:C:1716:THR:O	2:C:1720:MET:HG3	2.18	0.43
2:C:1929:SER:O	2:C:1933:VAL:HG12	2.18	0.43
2:C:1953:MET:HE3	2:C:1953:MET:HB3	1.85	0.43
2:C:2322:ARG:NH1	2:D:189:GLU:OE2	2.52	0.43
2:C:2423:LEU:HD23	2:C:2426:LEU:HD12	2.01	0.43
2:C:2782:MET:HG2	2:C:2787:TRP:CE3	2.54	0.43
2:D:34:LYS:H	2:D:53:SER:HB3	1.82	0.43
2:D:1839:LEU:HA	2:D:1842:ILE:HG12	1.99	0.43
2:D:2191:LYS:O	2:D:2195:ASN:ND2	2.50	0.43
2:D:4806:CYS:HA	2:D:4812:CYS:HB2	2.00	0.43
2:A:1043:LYS:HE2	2:A:1043:LYS:HB2	1.55	0.43
2:A:2504:THR:OG1	2:A:2507:LEU:HB2	2.19	0.43
2:A:2655:LYS:HZ3	2:A:2656:LYS:H	1.66	0.43
2:A:3001:LYS:HD2	2:A:3041:ASP:OD2	2.18	0.43
2:A:3235:MET:O	2:A:3299:LEU:HD21	2.19	0.43
2:A:3691:TYR:O	2:A:3695:MET:HG3	2.18	0.43
2:A:4615:LEU:HA	2:A:4619:GLU:OE2	2.19	0.43
2:B:1043:LYS:HB2	2:B:1043:LYS:HE2	1.54	0.43
2:B:2179:LEU:HD13	2:B:2224:ASN:HD22	1.83	0.43
2:B:2194:ALA:HA	2:B:2237:SER:HB3	2.00	0.43
2:B:2214:MET:HE3	2:B:2221:LEU:HD11	2.00	0.43
2:B:2423:LEU:HD23	2:B:2426:LEU:HD12	2.01	0.43
2:B:2782:MET:HG2	2:B:2787:TRP:CE3	2.54	0.43
2:B:3649:ALA:C	2:B:3652:PRO:HD2	2.43	0.43
2:B:3679:LYS:HE2	2:B:3679:LYS:HB2	1.88	0.43
2:B:3942:ASP:HA	2:B:3945:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:893:TRP:NE1	2:C:1049:SER:HB3	2.34	0.43
2:C:1042:THR:HG23	5:C:5004:KVR:C15	2.49	0.43
2:C:1044:LYS:HD3	2:C:1044:LYS:HA	1.77	0.43
2:C:1968:PRO:O	2:C:1972:GLN:HG3	2.19	0.43
2:C:2214:MET:HE3	2:C:2221:LEU:HD11	2.01	0.43
2:C:2790:GLU:O	2:C:2901:TYR:HA	2.19	0.43
2:C:2894:LYS:HE2	2:C:2894:LYS:HB2	1.81	0.43
2:C:3023:GLY:C	2:C:3025:ASP:H	2.27	0.43
2:C:3712:LYS:HB3	2:C:3716:GLU:HG3	2.01	0.43
2:C:4924:TYR:CZ	2:C:4928:LYS:HD2	2.53	0.43
2:D:672:LYS:HB3	2:D:819:TYR:HA	2.01	0.43
2:D:2303:ARG:HH11	2:D:2304:PHE:HA	1.82	0.43
2:D:2397:ASP:O	2:D:2401:ARG:HG3	2.19	0.43
2:D:2429:LEU:HD21	2:D:2483:PHE:CE1	2.54	0.43
2:D:2434:GLY:O	2:D:2438:ILE:HG13	2.18	0.43
2:D:2666:LEU:HD13	2:D:2966:VAL:HA	2.00	0.43
2:D:2782:MET:HG2	2:D:2787:TRP:CE3	2.54	0.43
2:A:36:CYS:SG	2:A:65:CYS:HB3	2.58	0.43
2:A:291:TRP:O	2:A:343:ARG:NH1	2.52	0.43
2:A:306:LEU:HA	2:A:316:LEU:HD23	2.01	0.43
2:A:980:PRO:HB2	2:A:981:MET:SD	2.59	0.43
2:A:1438:PRO:CG	2:A:1494:MET:HE2	2.49	0.43
2:A:2413:LYS:NZ	2:A:2415:GLU:OE1	2.52	0.43
2:A:2666:LEU:HD13	2:A:2966:VAL:HA	2.00	0.43
2:A:3198:PRO:O	2:A:3199:THR:OG1	2.35	0.43
2:A:3650:GLU:HB2	2:A:3651:PRO:HD3	2.01	0.43
2:A:4084:VAL:O	2:A:4088:HIS:HB3	2.17	0.43
2:A:4631:ASP:O	2:A:4634:VAL:HG12	2.19	0.43
2:B:291:TRP:O	2:B:343:ARG:NH1	2.52	0.43
2:B:2334:ALA:HB2	2:B:2346:ALA:HB2	2.01	0.43
2:B:3198:PRO:O	2:B:3199:THR:OG1	2.34	0.43
2:B:3288:LEU:HA	2:B:3292:GLU:OE1	2.19	0.43
2:B:3691:TYR:O	2:B:3695:MET:HG3	2.18	0.43
2:B:4615:LEU:HA	2:B:4619:GLU:OE2	2.19	0.43
2:C:363:ILE:HD13	2:C:372:LEU:HD23	2.01	0.43
2:C:1007:TRP:CZ2	2:C:1011:ARG:HD3	2.53	0.43
2:C:1014:GLN:HB3	2:C:1027:ARG:NH2	2.31	0.43
2:C:2146:LEU:O	2:C:2150:MET:HG2	2.18	0.43
2:C:2182:GLY:HA2	2:C:2185:LYS:HE2	2.00	0.43
2:C:4021:LEU:HD22	2:C:4128:TYR:CE2	2.54	0.43
2:C:4136:ILE:HG22	2:C:4917:ASN:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4615:LEU:HA	2:C:4619:GLU:OE2	2.19	0.43
2:D:306:LEU:HA	2:D:316:LEU:HD23	2.01	0.43
2:D:902:TRP:HZ2	2:D:915:HIS:ND1	2.17	0.43
2:D:954:ASP:OD2	2:D:957:ALA:N	2.51	0.43
2:D:1014:GLN:HB3	2:D:1027:ARG:NH2	2.31	0.43
2:D:1689:ILE:HD13	2:D:1703:TYR:CD1	2.54	0.43
2:D:3016:ARG:HA	2:D:3096:TYR:CZ	2.53	0.43
2:D:3288:LEU:HA	2:D:3292:GLU:OE1	2.19	0.43
1:E:67:MET:SD	1:E:73:ALA:HB3	2.58	0.43
2:A:141:ASP:HA	2:D:2337:GLY:O	2.19	0.43
2:A:718:VAL:HG23	2:A:793:SER:HB3	2.01	0.43
2:A:1991:GLU:HG2	2:A:1992:ILE:N	2.32	0.43
2:A:2790:GLU:O	2:A:2901:TYR:HA	2.19	0.43
2:A:2894:LYS:HE2	2:A:2894:LYS:HB2	1.81	0.43
2:A:4021:LEU:HD22	2:A:4128:TYR:CE2	2.54	0.43
2:A:4060:GLN:O	2:A:4064:GLU:OE1	2.36	0.43
2:B:718:VAL:HG23	2:B:793:SER:HB3	2.01	0.43
2:B:811:PHE:CE2	2:B:821:PRO:HB3	2.54	0.43
2:B:1091:GLU:HB3	2:B:1094:TYR:HD2	1.84	0.43
2:B:1931:ASP:OD1	2:B:1932:PHE:N	2.51	0.43
2:B:2182:GLY:HA2	2:B:2185:LYS:HE2	2.00	0.43
2:B:2727:HIS:O	2:B:2731:LYS:HG3	2.19	0.43
2:B:2844:MET:HE2	2:B:2848:TYR:CE2	2.53	0.43
2:B:4021:LEU:HD22	2:B:4128:TYR:CE2	2.54	0.43
2:C:2303:ARG:HH11	2:C:2304:PHE:HA	1.82	0.43
2:C:2397:ASP:O	2:C:2401:ARG:HG3	2.19	0.43
2:C:3207:ASN:OD1	2:C:3208:ILE:N	2.50	0.43
2:C:4070:ALA:HB1	2:C:4078:LEU:CD1	2.49	0.43
2:D:811:PHE:CE2	2:D:821:PRO:HB3	2.54	0.43
2:D:893:TRP:NE1	2:D:1049:SER:HB3	2.34	0.43
2:D:2894:LYS:HE2	2:D:2894:LYS:HB2	1.81	0.43
2:D:3254:PRO:HD2	2:D:3268:LEU:O	2.19	0.43
2:D:3982:LEU:HD22	2:D:3999:MET:HE2	2.01	0.43
2:D:4070:ALA:HB1	2:D:4078:LEU:CD1	2.49	0.43
1:E:19:LYS:HD3	1:E:19:LYS:HA	1.81	0.43
2:A:551:PHE:HE2	2:A:558:LEU:HD22	1.84	0.43
2:A:811:PHE:CE2	2:A:821:PRO:HB3	2.54	0.43
2:A:1689:ILE:HD13	2:A:1703:TYR:CD1	2.54	0.43
2:A:1968:PRO:O	2:A:1972:GLN:HG3	2.19	0.43
2:A:2658:GLU:OE1	2:A:2661:LEU:N	2.34	0.43
2:A:3982:LEU:HD22	2:A:3999:MET:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4735:ASN:HB3	2:A:4738:PHE:HD2	1.84	0.43
2:B:694:ARG:HD3	2:B:733:TRP:HB2	2.01	0.43
2:B:893:TRP:NE1	2:B:1049:SER:HB3	2.34	0.43
2:B:1716:THR:O	2:B:1720:MET:HG3	2.18	0.43
2:B:1968:PRO:O	2:B:1972:GLN:HG3	2.19	0.43
2:B:4058:TYR:HD1	2:B:4062:GLU:HB3	1.84	0.43
2:C:28:ILE:HG22	2:C:29:HIS:CD2	2.53	0.43
2:C:902:TRP:HZ2	2:C:915:HIS:ND1	2.17	0.43
2:C:1029:ASN:C	2:C:1031:ARG:N	2.77	0.43
2:C:2179:LEU:HD13	2:C:2224:ASN:HD22	1.83	0.43
2:C:2334:ALA:HB2	2:C:2346:ALA:HB2	2.01	0.43
2:C:3001:LYS:HD2	2:C:3041:ASP:OD2	2.18	0.43
2:C:3288:LEU:HA	2:C:3292:GLU:OE1	2.19	0.43
2:C:4735:ASN:HB3	2:C:4738:PHE:HD2	1.84	0.43
2:D:133:LEU:HD23	2:D:133:LEU:HA	1.88	0.43
2:D:694:ARG:HD3	2:D:733:TRP:HB2	2.01	0.43
2:D:980:PRO:HB2	2:D:981:MET:SD	2.59	0.43
2:D:1031:ARG:CZ	2:D:1031:ARG:HB3	2.44	0.43
2:D:1429:SER:OG	2:D:1556:GLU:HB2	2.19	0.43
2:D:2182:GLY:HA2	2:D:2185:LYS:HE2	2.00	0.43
2:D:2843:MET:O	2:D:2846:GLU:HG2	2.19	0.43
2:D:3712:LYS:HB3	2:D:3716:GLU:HG3	2.01	0.43
2:D:4615:LEU:HA	2:D:4619:GLU:OE2	2.19	0.43
2:D:4687:LYS:HD3	2:D:4687:LYS:HA	1.88	0.43
2:A:143:LEU:HD13	2:A:207:PHE:CE2	2.54	0.42
2:A:874:LEU:HD12	2:A:875:PRO:HD2	2.01	0.42
2:A:986:ILE:HG22	2:A:1055:ARG:HD2	2.01	0.42
2:A:1757:LEU:HD23	2:A:1757:LEU:HA	1.86	0.42
2:A:1986:CYS:HA	2:A:1987:PRO:HD3	1.91	0.42
2:A:3214:LEU:HD23	2:A:3214:LEU:HA	1.90	0.42
2:B:3016:ARG:HA	2:B:3096:TYR:CZ	2.53	0.42
2:B:3981:MET:HE3	2:B:3981:MET:HB3	1.80	0.42
2:C:794:PHE:HB2	2:C:798:ILE:HG21	2.01	0.42
2:C:811:PHE:HE2	2:C:821:PRO:HB3	1.84	0.42
2:C:1429:SER:OG	2:C:1556:GLU:HB2	2.19	0.42
2:C:3016:ARG:HA	2:C:3096:TYR:CZ	2.53	0.42
2:C:3942:ASP:HA	2:C:3945:VAL:HG12	2.01	0.42
2:C:3958:LEU:HB2	2:C:3968:LEU:HD13	2.01	0.42
2:C:4631:ASP:O	2:C:4634:VAL:HG12	2.19	0.42
2:D:1029:ASN:C	2:D:1031:ARG:N	2.77	0.42
2:D:1963:LYS:O	2:D:1967:SER:OG	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2504:THR:OG1	2:D:2507:LEU:HB2	2.19	0.42
2:D:3217:GLU:O	2:D:3220:GLU:HG3	2.19	0.42
2:A:986:ILE:CG2	2:A:1055:ARG:HD2	2.50	0.42
2:A:1029:ASN:C	2:A:1031:ARG:N	2.77	0.42
2:A:4070:ALA:HB1	2:A:4078:LEU:CD1	2.49	0.42
2:B:143:LEU:HD13	2:B:207:PHE:CE2	2.54	0.42
2:B:672:LYS:HB3	2:B:819:TYR:HA	2.01	0.42
2:B:2146:LEU:O	2:B:2150:MET:HG2	2.18	0.42
2:B:2798:MET:SD	2:C:1498:GLN:HG3	2.59	0.42
2:C:986:ILE:HG22	2:C:1055:ARG:HD2	2.01	0.42
2:C:1689:ILE:HD13	2:C:1703:TYR:CD1	2.54	0.42
2:C:3043:ARG:HH21	2:C:3117:PHE:HD1	1.65	0.42
2:C:3069:GLU:HG3	2:C:3132:ARG:HH11	1.83	0.42
2:C:3650:GLU:HB2	2:C:3651:PRO:HD3	2.01	0.42
2:D:986:ILE:HG22	2:D:1055:ARG:HD2	2.01	0.42
2:D:1608:VAL:HG12	2:D:1619:VAL:HA	2.01	0.42
2:D:1678:SER:HB2	2:D:1768:PHE:CZ	2.55	0.42
2:D:2423:LEU:HD23	2:D:2426:LEU:HD12	2.01	0.42
2:D:3043:ARG:HH21	2:D:3117:PHE:HD1	1.66	0.42
2:A:257:ARG:NH2	2:A:272:ARG:HG3	2.33	0.42
2:A:505:LEU:HB3	2:A:530:LEU:HD21	2.01	0.42
2:A:674:TYR:HE1	2:A:756:SER:HB2	1.83	0.42
2:A:988:LEU:HB2	2:A:1055:ARG:NE	2.26	0.42
2:A:1678:SER:HB2	2:A:1768:PHE:CZ	2.55	0.42
2:A:2397:ASP:O	2:A:2401:ARG:HG3	2.19	0.42
2:A:2827:ASP:OD1	2:B:1434:PRO:HB2	2.19	0.42
2:A:2885:ASP:O	2:A:2888:LYS:HG2	2.19	0.42
2:A:3254:PRO:HD2	2:A:3268:LEU:O	2.19	0.42
2:A:3958:LEU:HB2	2:A:3968:LEU:HD13	2.02	0.42
2:B:538:ALA:O	2:B:542:ARG:HB2	2.19	0.42
2:B:794:PHE:HB2	2:B:798:ILE:HG21	2.02	0.42
2:B:980:PRO:HB2	2:B:981:MET:SD	2.59	0.42
2:B:1026:ASN:HB3	2:B:1028:ARG:HG2	2.02	0.42
2:B:1429:SER:OG	2:B:1556:GLU:HB2	2.19	0.42
2:B:2413:LYS:NZ	2:B:2415:GLU:OE1	2.52	0.42
2:B:2429:LEU:HD21	2:B:2483:PHE:CE1	2.54	0.42
2:B:2843:MET:O	2:B:2846:GLU:HG2	2.19	0.42
2:B:2844:MET:O	2:B:2848:TYR:HD2	2.02	0.42
2:B:3001:LYS:HD2	2:B:3041:ASP:OD2	2.18	0.42
2:B:3023:GLY:C	2:B:3025:ASP:H	2.27	0.42
2:C:521:GLU:HG2	2:C:522:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:980:PRO:HB2	2:C:981:MET:SD	2.59	0.42
2:C:1608:VAL:HG12	2:C:1619:VAL:HA	2.01	0.42
2:C:2413:LYS:NZ	2:C:2415:GLU:OE1	2.52	0.42
2:C:3217:GLU:O	2:C:3220:GLU:HG3	2.19	0.42
2:C:4267:GLN:O	2:C:4271:VAL:HG23	2.19	0.42
2:D:1091:GLU:HB3	2:D:1094:TYR:HD2	1.84	0.42
2:D:1929:SER:O	2:D:1933:VAL:HG12	2.18	0.42
2:D:2413:LYS:NZ	2:D:2415:GLU:OE1	2.52	0.42
2:D:2727:HIS:O	2:D:2731:LYS:HG3	2.19	0.42
2:D:3102:LEU:HB2	2:D:3103:PRO:HD3	2.00	0.42
2:D:3284:ILE:HD11	2:D:3296:MET:HE2	2.00	0.42
2:D:3605:MET:HE2	2:D:3605:MET:HB3	1.49	0.42
2:A:1608:VAL:HG12	2:A:1619:VAL:HA	2.01	0.42
2:A:1748:LEU:HD23	2:A:1748:LEU:HA	1.83	0.42
2:A:2146:LEU:O	2:A:2150:MET:HG2	2.18	0.42
2:A:2187:ILE:HG13	2:A:2227:VAL:HG13	2.01	0.42
2:B:306:LEU:HA	2:B:316:LEU:HD23	2.01	0.42
2:B:363:ILE:HD13	2:B:372:LEU:HD23	2.01	0.42
2:B:811:PHE:HE2	2:B:821:PRO:HB3	1.84	0.42
2:B:1608:VAL:HG12	2:B:1619:VAL:HA	2.01	0.42
2:B:1678:SER:HB2	2:B:1768:PHE:CZ	2.55	0.42
2:B:3712:LYS:HB3	2:B:3716:GLU:HG3	2.01	0.42
2:B:4070:ALA:HB1	2:B:4078:LEU:CD1	2.49	0.42
2:C:133:LEU:HD23	2:C:133:LEU:HA	1.88	0.42
2:C:811:PHE:CE2	2:C:821:PRO:HB3	2.54	0.42
2:C:1026:ASN:HB3	2:C:1028:ARG:HG2	2.02	0.42
2:C:1943:ARG:O	2:C:1947:VAL:HG23	2.20	0.42
2:C:2392:TYR:O	2:C:2396:ILE:HD12	2.18	0.42
2:C:2905:ARG:NH1	2:C:2906:GLY:H	2.15	0.42
2:D:538:ALA:O	2:D:542:ARG:HB2	2.19	0.42
2:D:1694:MET:HE2	2:D:1694:MET:HB2	1.92	0.42
2:D:2511:ASP:HA	2:D:2514:LEU:HD12	2.01	0.42
2:D:2885:ASP:O	2:D:2888:LYS:HG2	2.19	0.42
2:D:2937:HIS:HA	2:D:3014:LEU:HD13	2.01	0.42
2:D:3213:LYS:O	2:D:3216:GLU:HG3	2.20	0.42
2:D:3958:LEU:HB2	2:D:3968:LEU:HD13	2.01	0.42
2:D:4021:LEU:HD22	2:D:4128:TYR:CE2	2.54	0.42
2:D:4631:ASP:O	2:D:4634:VAL:HG12	2.19	0.42
2:A:363:ILE:HD13	2:A:372:LEU:HD23	2.01	0.42
2:A:1042:THR:HG23	5:A:5004:KVR:C15	2.49	0.42
2:A:2182:GLY:HA2	2:A:2185:LYS:HE2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2844:MET:O	2:A:2848:TYR:HD2	2.02	0.42
2:A:2910:LEU:HD12	2:A:2911:GLU:N	2.35	0.42
2:A:3069:GLU:HG3	2:A:3132:ARG:HH11	1.83	0.42
2:A:3712:LYS:HB3	2:A:3716:GLU:HG3	2.01	0.42
2:B:557:TRP:O	2:B:560:SER:OG	2.37	0.42
2:B:874:LEU:HD12	2:B:875:PRO:HD2	2.01	0.42
2:B:2397:ASP:O	2:B:2401:ARG:HG3	2.19	0.42
2:C:291:TRP:O	2:C:343:ARG:NH1	2.52	0.42
2:C:2760:TYR:CE1	2:C:2768:LYS:HG2	2.55	0.42
2:D:961:VAL:HG13	2:D:961:VAL:O	2.19	0.42
2:D:986:ILE:CG2	2:D:1055:ARG:HD2	2.50	0.42
2:D:1013:ARG:NE	2:D:1013:ARG:HA	2.35	0.42
2:D:1963:LYS:HB2	2:D:1963:LYS:HE2	1.77	0.42
2:D:2721:ILE:HD11	2:D:2779:LEU:HD22	2.02	0.42
2:D:2760:TYR:CE1	2:D:2768:LYS:HG2	2.55	0.42
2:D:2831:VAL:HB	2:D:2894:LYS:CD	2.46	0.42
2:D:3018:ARG:HA	2:D:3021:LEU:HD13	2.01	0.42
2:D:3296:MET:HA	2:D:3299:LEU:HD12	2.01	0.42
2:D:3942:ASP:HA	2:D:3945:VAL:HG12	2.01	0.42
2:D:4803:ASP:OD2	2:D:4805:LYS:HE2	2.20	0.42
2:A:811:PHE:HE2	2:A:821:PRO:HB3	1.84	0.42
2:A:1013:ARG:NE	2:A:1013:ARG:HA	2.35	0.42
2:A:1979:PHE:HZ	2:A:1996:LEU:HB3	1.83	0.42
2:A:2843:MET:O	2:A:2846:GLU:HG2	2.19	0.42
2:A:3942:ASP:HA	2:A:3945:VAL:HG12	2.01	0.42
2:A:4105:LEU:HB3	2:A:4115:LEU:HD21	2.02	0.42
2:A:4267:GLN:O	2:A:4271:VAL:HG23	2.18	0.42
2:A:4649:VAL:O	2:A:4653:VAL:HG23	2.20	0.42
2:B:551:PHE:HE2	2:B:558:LEU:HD22	1.84	0.42
2:B:1932:PHE:CE1	2:B:1996:LEU:HB2	2.54	0.42
2:B:1943:ARG:O	2:B:1947:VAL:HG23	2.20	0.42
2:B:2187:ILE:HG13	2:B:2227:VAL:HG13	2.01	0.42
2:B:2914:THR:N	2:B:2915:PRO:HD2	2.35	0.42
2:B:2937:HIS:HA	2:B:3014:LEU:HD13	2.01	0.42
2:B:3018:ARG:HA	2:B:3021:LEU:HD13	2.01	0.42
2:B:3650:GLU:HB2	2:B:3651:PRO:HD3	2.01	0.42
2:B:4631:ASP:O	2:B:4634:VAL:HG12	2.19	0.42
2:B:4822:ARG:HH12	2:C:4829:ASP:N	2.17	0.42
2:C:133:LEU:C	2:C:135:THR:H	2.28	0.42
2:C:1932:PHE:CE1	2:C:1996:LEU:HB2	2.54	0.42
2:C:2788:ARG:NH2	2:C:2908:LYS:HZ3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2910:LEU:HD12	2:C:2911:GLU:N	2.35	0.42
2:C:3235:MET:O	2:C:3299:LEU:HD21	2.19	0.42
2:D:185:SER:OG	2:D:188:SER:OG	2.32	0.42
2:D:811:PHE:HE2	2:D:821:PRO:HB3	1.84	0.42
2:D:1031:ARG:HH21	2:D:1038:LEU:CD1	2.11	0.42
2:D:1053:ALA:O	2:D:1057:LEU:HG	2.20	0.42
2:D:4049:HIS:HB2	2:D:4067:LEU:HD21	2.02	0.42
1:F:53:LYS:HE3	1:F:53:LYS:HB3	1.88	0.42
2:A:694:ARG:HD3	2:A:733:TRP:HB2	2.01	0.42
2:A:1932:PHE:CE1	2:A:1996:LEU:HB2	2.54	0.42
2:A:2214:MET:HE3	2:A:2221:LEU:HD11	2.01	0.42
2:A:2334:ALA:HB2	2:A:2346:ALA:HB2	2.01	0.42
2:A:2727:HIS:O	2:A:2731:LYS:HG3	2.19	0.42
2:A:2758:LYS:HE2	2:A:2762:LEU:C	2.45	0.42
2:A:3797:MET:HE1	2:A:3870:ILE:HG23	2.02	0.42
2:B:133:LEU:HD23	2:B:133:LEU:HA	1.88	0.42
2:B:521:GLU:HG2	2:B:522:ALA:N	2.34	0.42
2:B:962:LYS:HZ2	2:B:982:ASP:H	1.68	0.42
2:B:986:ILE:HG22	2:B:1055:ARG:HD2	2.02	0.42
2:B:3254:PRO:HD2	2:B:3268:LEU:O	2.19	0.42
2:B:3296:MET:HA	2:B:3299:LEU:HD12	2.01	0.42
2:B:3797:MET:HE1	2:B:3870:ILE:HG23	2.02	0.42
2:B:4136:ILE:HG22	2:B:4917:ASN:HB3	2.01	0.42
2:B:4267:GLN:O	2:B:4271:VAL:HG23	2.19	0.42
2:B:4649:VAL:O	2:B:4653:VAL:HG23	2.20	0.42
2:C:505:LEU:HD23	2:C:505:LEU:HA	1.88	0.42
2:C:680:ASP:O	2:C:751:THR:HG23	2.20	0.42
2:C:1678:SER:HB2	2:C:1768:PHE:CZ	2.55	0.42
2:C:2095:ILE:HD12	2:C:2095:ILE:HA	1.93	0.42
2:C:2399:LEU:HD12	2:C:2427:ILE:HD11	2.02	0.42
2:C:2885:ASP:O	2:C:2888:LYS:HG2	2.19	0.42
2:C:2914:THR:N	2:C:2915:PRO:HD2	2.35	0.42
2:C:3213:LYS:O	2:C:3216:GLU:HG3	2.20	0.42
2:C:3797:MET:HE1	2:C:3870:ILE:HG23	2.02	0.42
2:C:4649:VAL:O	2:C:4653:VAL:HG23	2.20	0.42
2:C:4803:ASP:OD2	2:C:4805:LYS:HE2	2.20	0.42
2:C:4806:CYS:HA	2:C:4812:CYS:HB2	2.00	0.42
2:D:143:LEU:HD13	2:D:207:PHE:CE2	2.54	0.42
2:D:505:LEU:HB3	2:D:530:LEU:HD21	2.01	0.42
2:D:874:LEU:HD12	2:D:875:PRO:HD2	2.01	0.42
2:D:1438:PRO:CG	2:D:1494:MET:HE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3611:LEU:HD23	2:D:3611:LEU:HA	1.90	0.42
1:E:19:LYS:HZ3	1:E:52:GLY:HA3	1.83	0.42
2:A:794:PHE:HB2	2:A:798:ILE:HG21	2.02	0.42
2:A:954:ASP:OD2	2:A:957:ALA:N	2.51	0.42
2:A:1053:ALA:O	2:A:1057:LEU:HG	2.20	0.42
2:A:1091:GLU:HB3	2:A:1094:TYR:HD2	1.84	0.42
2:A:1181:ILE:HG21	2:A:1189:GLU:HB3	2.02	0.42
2:A:2511:ASP:HA	2:A:2514:LEU:HD12	2.01	0.42
2:A:3102:LEU:HB2	2:A:3103:PRO:HD3	2.00	0.42
2:A:3311:LYS:O	2:A:3315:LEU:N	2.49	0.42
2:B:269:VAL:O	2:B:269:VAL:HG12	2.20	0.42
2:B:2137:GLU:HG2	2:B:2138:GLU:N	2.35	0.42
2:B:2760:TYR:CE1	2:B:2768:LYS:HG2	2.55	0.42
2:B:2841:ALA:HB2	2:B:2893:LEU:HD12	2.02	0.42
2:B:2885:ASP:O	2:B:2888:LYS:HG2	2.19	0.42
2:B:3890:TRP:HB3	2:C:76:ARG:HG2	2.02	0.42
2:B:3958:LEU:HB2	2:B:3968:LEU:HD13	2.01	0.42
2:C:66:THR:HG1	2:C:124:SER:HG	1.63	0.42
2:C:143:LEU:HD13	2:C:207:PHE:CE2	2.55	0.42
2:C:306:LEU:HA	2:C:316:LEU:HD23	2.01	0.42
2:C:874:LEU:HD12	2:C:875:PRO:HD2	2.01	0.42
2:C:1031:ARG:HH21	2:C:1038:LEU:CD1	2.11	0.42
2:C:2214:MET:HE2	2:C:2242:VAL:HG11	2.02	0.42
2:C:2841:ALA:HB2	2:C:2893:LEU:HD12	2.02	0.42
2:C:4058:TYR:HD1	2:C:4062:GLU:HB3	1.84	0.42
2:D:2399:LEU:HD12	2:D:2427:ILE:HD11	2.02	0.42
2:D:2910:LEU:HD12	2:D:2911:GLU:N	2.35	0.42
2:D:3023:GLY:C	2:D:3025:ASP:H	2.27	0.42
2:D:3207:ASN:OD1	2:D:3208:ILE:N	2.50	0.42
2:D:4058:TYR:HD1	2:D:4062:GLU:HB3	1.84	0.42
1:E:83:TYR:OH	2:A:1768:PHE:O	2.29	0.42
2:A:890:HIS:CE1	2:A:924:LEU:HD22	2.55	0.42
2:A:1040:ASP:HA	2:A:1043:LYS:HE2	2.02	0.42
2:A:1435:GLY:HA2	2:D:2831:VAL:HG22	2.01	0.42
2:A:1900:GLU:HG2	2:A:2080:LEU:HD23	2.02	0.42
2:A:1963:LYS:O	2:A:1967:SER:OG	2.26	0.42
2:A:2841:ALA:HB2	2:A:2893:LEU:HD12	2.02	0.42
2:A:2914:THR:N	2:A:2915:PRO:HD2	2.35	0.42
2:A:3023:GLY:C	2:A:3025:ASP:H	2.27	0.42
2:A:3679:LYS:HE2	2:A:3679:LYS:HB2	1.88	0.42
2:B:986:ILE:CG2	2:B:1055:ARG:HD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1900:GLU:HG2	2:B:2080:LEU:HD23	2.02	0.42
2:B:2761:LYS:HA	2:B:2761:LYS:HD3	1.83	0.42
2:C:505:LEU:HB3	2:C:530:LEU:HD21	2.01	0.42
2:C:538:ALA:O	2:C:542:ARG:HB2	2.19	0.42
2:C:674:TYR:OH	2:C:676:GLU:OE1	2.31	0.42
2:C:694:ARG:HD2	2:C:718:VAL:O	2.20	0.42
2:C:2187:ILE:HG13	2:C:2227:VAL:HG13	2.01	0.42
2:C:2721:ILE:HD11	2:C:2779:LEU:HD22	2.02	0.42
2:C:3254:PRO:HD2	2:C:3268:LEU:O	2.19	0.42
2:D:363:ILE:HD13	2:D:372:LEU:HD23	2.01	0.42
2:D:902:TRP:CG	2:D:918:LEU:HD21	2.55	0.42
2:D:981:MET:SD	2:D:1059:GLY:HA3	2.60	0.42
2:D:1040:ASP:HA	2:D:1043:LYS:HE2	2.02	0.42
2:D:1943:ARG:O	2:D:1947:VAL:HG23	2.20	0.42
2:D:2736:LYS:HA	2:D:2736:LYS:HD3	1.82	0.42
2:D:2841:ALA:HB2	2:D:2893:LEU:HD12	2.02	0.42
2:D:3072:MET:HE1	2:D:3140:LEU:HD12	2.02	0.42
1:F:19:LYS:HA	1:F:19:LYS:HD3	1.81	0.42
2:A:521:GLU:HG2	2:A:522:ALA:N	2.34	0.42
2:A:961:VAL:HG13	2:A:961:VAL:O	2.19	0.42
2:A:1026:ASN:HB3	2:A:1028:ARG:HG2	2.02	0.42
2:A:2721:ILE:HD11	2:A:2779:LEU:HD22	2.02	0.42
2:A:2937:HIS:HA	2:A:3014:LEU:HD13	2.01	0.42
2:A:3213:LYS:O	2:A:3216:GLU:HG3	2.20	0.42
2:A:3260:ARG:HH12	2:A:3265:CYS:H	1.68	0.42
2:A:3850:HIS:HE1	2:A:3925:GLN:OE1	2.03	0.42
2:B:1031:ARG:NH2	2:B:1042:THR:HG21	2.22	0.42
2:B:1825:PHE:CZ	2:B:1842:ILE:HD12	2.55	0.42
2:B:2758:LYS:HE2	2:B:2762:LEU:C	2.45	0.42
2:B:3213:LYS:O	2:B:3216:GLU:HG3	2.20	0.42
2:B:4806:CYS:HA	2:B:4812:CYS:HB2	2.00	0.42
2:C:2257:LEU:HD21	2:C:2262:LEU:HG	2.02	0.42
2:C:2758:LYS:HE2	2:C:2762:LEU:C	2.45	0.42
2:C:3018:ARG:HA	2:C:3021:LEU:HD13	2.01	0.42
2:D:133:LEU:C	2:D:135:THR:H	2.28	0.42
2:D:249:SER:HA	2:D:272:ARG:HD2	2.02	0.42
2:D:257:ARG:NH2	2:D:272:ARG:HG3	2.33	0.42
2:D:349:MET:HA	2:D:349:MET:HE2	2.02	0.42
2:D:718:VAL:HG23	2:D:793:SER:HB3	2.01	0.42
2:D:1019:GLY:HA3	2:D:1028:ARG:HB3	2.02	0.42
2:D:3144:LYS:HE3	2:D:3233:HIS:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3178:HIS:HB2	2:D:3265:CYS:HA	2.02	0.42
2:A:981:MET:SD	2:A:1059:GLY:HA3	2.60	0.41
2:A:1031:ARG:NH2	2:A:1042:THR:HG21	2.21	0.41
2:A:1777:GLN:O	2:A:1778:TYR:HB2	2.20	0.41
2:A:2605:MET:HE2	2:A:2606:PRO:N	2.35	0.41
2:A:4782:THR:HG22	2:A:4809:MET:HE3	2.02	0.41
2:B:555:LEU:HD11	2:B:578:VAL:HG11	2.02	0.41
2:B:694:ARG:HD2	2:B:718:VAL:O	2.20	0.41
2:B:961:VAL:O	2:B:961:VAL:HG13	2.19	0.41
2:B:2591:ARG:HG2	2:B:2691:LYS:HZ3	1.85	0.41
2:B:2910:LEU:HD12	2:B:2911:GLU:N	2.35	0.41
2:B:3850:HIS:HE1	2:B:3925:GLN:OE1	2.03	0.41
2:C:672:LYS:NZ	2:C:818:GLY:HA3	2.35	0.41
2:C:718:VAL:HG23	2:C:793:SER:HB3	2.01	0.41
2:C:2844:MET:O	2:C:2848:TYR:HD2	2.02	0.41
2:C:3661:VAL:HG23	2:C:3666:GLN:HG2	2.02	0.41
2:C:3732:HIS:O	2:C:3776:LYS:NZ	2.49	0.41
2:C:3850:HIS:HE1	2:C:3925:GLN:OE1	2.03	0.41
2:C:3982:LEU:HD22	2:C:3999:MET:HE2	2.01	0.41
2:C:4049:HIS:HB2	2:C:4067:LEU:HD21	2.02	0.41
2:D:657:PRO:HB2	2:D:659:ILE:HG12	2.02	0.41
2:D:794:PHE:HB2	2:D:798:ILE:HG21	2.02	0.41
2:D:2214:MET:HE3	2:D:2221:LEU:HD11	2.00	0.41
2:D:2644:LEU:O	2:D:2648:ILE:HG13	2.20	0.41
2:D:2758:LYS:HE2	2:D:2762:LEU:C	2.45	0.41
2:D:3166:PHE:CG	2:D:3167:PRO:HD2	2.55	0.41
2:D:4277:LYS:HA	2:D:4277:LYS:HD2	1.73	0.41
2:D:4649:VAL:O	2:D:4653:VAL:HG23	2.20	0.41
2:A:520:ARG:HH11	2:A:521:GLU:HB3	1.85	0.41
2:A:672:LYS:HB3	2:A:819:TYR:HA	2.01	0.41
2:A:756:SER:OG	2:A:769:ARG:HB2	2.20	0.41
2:A:902:TRP:CG	2:A:918:LEU:HD21	2.55	0.41
2:A:1429:SER:OG	2:A:1556:GLU:HB2	2.19	0.41
2:A:2142:MET:HE3	2:A:2142:MET:HB3	1.97	0.41
2:A:3018:ARG:HA	2:A:3021:LEU:HD13	2.01	0.41
2:A:3061:LEU:HD23	2:A:3061:LEU:HA	1.84	0.41
2:A:3144:LYS:HE3	2:A:3233:HIS:NE2	2.35	0.41
2:A:3296:MET:HA	2:A:3299:LEU:HD12	2.00	0.41
2:B:2257:LEU:HD21	2:B:2262:LEU:HG	2.02	0.41
2:B:2605:MET:HE2	2:B:2606:PRO:N	2.35	0.41
2:B:3233:HIS:O	2:B:3236:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4105:LEU:HB3	2:B:4115:LEU:HD21	2.02	0.41
2:C:657:PRO:HB2	2:C:659:ILE:HG12	2.02	0.41
2:C:890:HIS:CE1	2:C:924:LEU:HD22	2.55	0.41
2:C:1029:ASN:OD1	2:C:1030:PRO:HD2	2.21	0.41
2:C:1282:CYS:SG	2:C:1556:GLU:HG2	2.61	0.41
2:C:3023:GLY:N	2:C:3025:ASP:OD1	2.53	0.41
2:C:3145:SER:O	2:C:3148:VAL:HG12	2.20	0.41
2:C:3296:MET:HA	2:C:3299:LEU:HD12	2.01	0.41
2:C:4255:LEU:O	2:C:4258:MET:HG3	2.20	0.41
2:D:551:PHE:HE2	2:D:558:LEU:HD22	1.84	0.41
2:D:1026:ASN:HB3	2:D:1028:ARG:HG2	2.02	0.41
2:D:1029:ASN:OD1	2:D:1030:PRO:HD2	2.21	0.41
2:D:1181:ILE:HG21	2:D:1189:GLU:HB3	2.02	0.41
2:D:2137:GLU:HG2	2:D:2138:GLU:N	2.35	0.41
2:D:2433:VAL:HG13	2:D:2490:VAL:HG21	2.03	0.41
2:D:2605:MET:HE2	2:D:2606:PRO:N	2.35	0.41
2:A:893:TRP:NE1	2:A:1049:SER:HB3	2.34	0.41
2:A:1282:CYS:SG	2:A:1556:GLU:HG2	2.61	0.41
2:A:2222:LEU:HD23	2:A:2222:LEU:HA	1.94	0.41
2:A:2767:GLU:HG3	2:A:2771:TYR:CE2	2.55	0.41
2:A:3023:GLY:N	2:A:3025:ASP:OD1	2.53	0.41
2:A:3793:LEU:HD23	2:A:3793:LEU:HA	1.93	0.41
2:B:890:HIS:CE1	2:B:924:LEU:HD22	2.55	0.41
2:B:1181:ILE:HG21	2:B:1189:GLU:HB3	2.02	0.41
2:B:2831:VAL:HB	2:B:2894:LYS:CD	2.46	0.41
2:B:2905:ARG:NH1	2:B:2906:GLY:H	2.15	0.41
2:B:3982:LEU:HD22	2:B:3999:MET:HE2	2.01	0.41
2:B:4735:ASN:HB3	2:B:4738:PHE:HD2	1.84	0.41
2:B:4782:THR:HG22	2:B:4809:MET:HE3	2.03	0.41
2:C:257:ARG:NH2	2:C:272:ARG:HG3	2.33	0.41
2:C:349:MET:HE2	2:C:349:MET:HA	2.02	0.41
2:C:672:LYS:HB3	2:C:819:TYR:HA	2.01	0.41
2:C:961:VAL:O	2:C:961:VAL:HG13	2.19	0.41
2:C:986:ILE:CG2	2:C:1055:ARG:HD2	2.50	0.41
2:C:1019:GLY:HA3	2:C:1028:ARG:HB3	2.02	0.41
2:C:1053:ALA:O	2:C:1057:LEU:HG	2.20	0.41
2:C:2593:VAL:HG12	2:C:2644:LEU:HB2	2.02	0.41
2:C:2605:MET:HE2	2:C:2606:PRO:N	2.35	0.41
2:C:2649:PHE:CE2	2:C:2932:TYR:HE2	2.38	0.41
2:C:2727:HIS:O	2:C:2731:LYS:HG3	2.19	0.41
2:C:2767:GLU:HG3	2:C:2771:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3278:GLY:O	2:C:3282:LYS:HG2	2.21	0.41
2:C:3712:LYS:HE3	2:C:3712:LYS:HB2	1.70	0.41
2:D:962:LYS:HZ2	2:D:982:ASP:H	1.68	0.41
2:D:1932:PHE:CE1	2:D:1996:LEU:HB2	2.54	0.41
2:D:2062:ILE:O	2:D:2066:MET:HG2	2.20	0.41
2:D:2694:SER:HA	2:D:2704:GLN:HE22	1.85	0.41
2:D:2849:HIS:NE2	2:D:2877:LEU:HD11	2.36	0.41
2:D:2905:ARG:NH1	2:D:2906:GLY:H	2.15	0.41
2:D:3237:VAL:HG23	2:D:3238:ILE:HG13	2.02	0.41
2:D:4110:PRO:HG3	2:D:4966:LEU:HD12	2.02	0.41
1:F:8:ILE:HG23	2:B:748:LEU:HB2	2.02	0.41
2:A:249:SER:HA	2:A:272:ARG:HD2	2.03	0.41
2:A:680:ASP:O	2:A:751:THR:HG23	2.20	0.41
2:A:1610:ARG:HD3	2:A:1617:TRP:CE2	2.56	0.41
2:A:2214:MET:HE2	2:A:2242:VAL:HG11	2.02	0.41
2:A:2409:ILE:HG12	2:A:2420:ARG:NH2	2.36	0.41
2:A:2429:LEU:HD21	2:A:2483:PHE:CZ	2.56	0.41
2:A:2478:ILE:HB	2:A:2531:CYS:SG	2.60	0.41
2:A:2649:PHE:CE2	2:A:2932:TYR:HE2	2.38	0.41
2:A:2760:TYR:CE1	2:A:2768:LYS:HG2	2.55	0.41
2:A:2849:HIS:NE2	2:A:2877:LEU:HD11	2.35	0.41
2:A:2927:GLN:HG3	2:A:2931:ARG:NE	2.35	0.41
2:A:3130:CYS:HA	2:A:3133:ILE:HD12	2.02	0.41
2:A:3664:LEU:HD21	2:A:3731:LEU:HD23	2.02	0.41
2:A:4803:ASP:OD2	2:A:4805:LYS:HE2	2.20	0.41
2:B:349:MET:HE2	2:B:349:MET:HA	2.02	0.41
2:B:1703:TYR:HD2	2:B:1820:PRO:CB	2.34	0.41
2:B:2409:ILE:HG12	2:B:2420:ARG:NH2	2.36	0.41
2:B:2721:ILE:HD11	2:B:2779:LEU:HD22	2.02	0.41
2:B:3130:CYS:HA	2:B:3133:ILE:HD12	2.02	0.41
2:B:3145:SER:O	2:B:3148:VAL:HG12	2.20	0.41
2:B:3237:VAL:C	2:B:3240:PRO:HD2	2.46	0.41
2:B:3237:VAL:HG23	2:B:3238:ILE:HG13	2.02	0.41
2:B:3260:ARG:HH12	2:B:3265:CYS:H	1.68	0.41
2:C:756:SER:OG	2:C:769:ARG:HB2	2.20	0.41
2:C:1703:TYR:HD2	2:C:1820:PRO:CB	2.34	0.41
2:C:2488:LEU:HG	2:C:2544:LEU:HD11	2.03	0.41
2:C:2644:LEU:O	2:C:2648:ILE:HG13	2.20	0.41
2:C:2658:GLU:OE1	2:C:2661:LEU:N	2.34	0.41
2:C:3166:PHE:CG	2:C:3167:PRO:HD2	2.55	0.41
2:C:3237:VAL:HG23	2:C:3238:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3952:ALA:HB1	2:C:4012:MET:HE3	2.02	0.41
2:D:555:LEU:HD11	2:D:578:VAL:HG11	2.02	0.41
2:D:680:ASP:O	2:D:751:THR:HG23	2.20	0.41
2:D:1168:MET:HE3	2:D:1168:MET:HB3	1.93	0.41
2:D:1255:LEU:HG	2:D:1451:HIS:HB3	2.03	0.41
2:D:1825:PHE:CZ	2:D:1842:ILE:HD12	2.55	0.41
2:D:2914:THR:N	2:D:2915:PRO:HD2	2.35	0.41
2:D:3952:ALA:HB1	2:D:4012:MET:HE3	2.02	0.41
2:D:4136:ILE:HG22	2:D:4917:ASN:HB3	2.01	0.41
2:D:4270:LYS:HE3	2:D:4270:LYS:HB3	1.84	0.41
1:F:12:ASP:OD1	1:F:13:GLY:N	2.54	0.41
2:A:269:VAL:O	2:A:269:VAL:HG12	2.20	0.41
2:A:1559:ARG:HB3	2:A:1565:PRO:HB3	2.03	0.41
2:A:1754:SER:OG	2:A:1923:GLU:OE2	2.33	0.41
2:A:2137:GLU:HG2	2:A:2138:GLU:N	2.35	0.41
2:A:2255:LEU:O	2:A:3810:ARG:HD3	2.21	0.41
2:A:2426:LEU:HA	2:B:143:LEU:CD2	2.50	0.41
2:A:3072:MET:HE1	2:A:3140:LEU:HD12	2.02	0.41
2:A:3233:HIS:O	2:A:3236:GLU:HG2	2.21	0.41
2:A:3732:HIS:O	2:A:3776:LYS:NZ	2.49	0.41
2:A:4255:LEU:O	2:A:4258:MET:HG3	2.20	0.41
2:A:4609:LYS:HD2	2:A:4615:LEU:HD13	2.02	0.41
2:B:133:LEU:C	2:B:135:THR:H	2.28	0.41
2:B:680:ASP:O	2:B:751:THR:HG23	2.20	0.41
2:B:902:TRP:CG	2:B:918:LEU:HD21	2.55	0.41
2:B:1053:ALA:O	2:B:1057:LEU:HG	2.20	0.41
2:B:1425:THR:HG22	2:B:1563:VAL:HG13	2.02	0.41
2:B:2429:LEU:HD21	2:B:2483:PHE:CZ	2.56	0.41
2:B:2990:LEU:HD12	2:B:2990:LEU:O	2.21	0.41
2:B:3278:GLY:O	2:B:3282:LYS:HG2	2.21	0.41
2:B:3661:VAL:HG23	2:B:3666:GLN:HG2	2.02	0.41
2:B:3952:ALA:HB1	2:B:4012:MET:HE3	2.02	0.41
2:C:2062:ILE:O	2:C:2066:MET:HG2	2.21	0.41
2:C:2255:LEU:O	2:C:3810:ARG:HD3	2.21	0.41
2:D:1610:ARG:HD3	2:D:1617:TRP:CE2	2.56	0.41
2:D:1703:TYR:HD2	2:D:1820:PRO:CB	2.33	0.41
2:D:2257:LEU:HD21	2:D:2262:LEU:HG	2.02	0.41
2:D:2334:ALA:HB2	2:D:2346:ALA:HB2	2.01	0.41
2:D:2790:GLU:O	2:D:2901:TYR:HA	2.19	0.41
2:D:3145:SER:O	2:D:3148:VAL:HG12	2.20	0.41
2:D:3906:PHE:HB3	2:D:3967:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4255:LEU:O	2:D:4258:MET:HG3	2.20	0.41
2:D:4625:ASP:OD1	2:D:4625:ASP:N	2.46	0.41
2:D:4735:ASN:HB3	2:D:4738:PHE:HD2	1.84	0.41
2:D:4782:THR:HG22	2:D:4809:MET:HE3	2.02	0.41
2:D:4843:ARG:NH1	2:D:4847:ASP:OD2	2.54	0.41
1:G:28:THR:O	1:G:30:MET:HG3	2.21	0.41
2:A:21:VAL:HG23	2:A:215:ALA:HB3	2.03	0.41
2:A:657:PRO:HB2	2:A:659:ILE:HG12	2.02	0.41
2:A:902:TRP:HB3	2:A:918:LEU:CD2	2.44	0.41
2:A:1703:TYR:HD2	2:A:1820:PRO:CB	2.34	0.41
2:A:2062:ILE:O	2:A:2066:MET:HG2	2.21	0.41
2:A:2433:VAL:HG13	2:A:2490:VAL:HG21	2.02	0.41
2:A:2694:SER:HA	2:A:2704:GLN:HE22	1.85	0.41
2:A:3661:VAL:HG23	2:A:3666:GLN:HG2	2.02	0.41
2:A:3952:ALA:HB1	2:A:4012:MET:HE3	2.02	0.41
2:A:3975:GLN:O	2:A:3979:VAL:HG23	2.20	0.41
2:B:324:VAL:O	2:B:328:ALA:HB2	2.21	0.41
2:B:505:LEU:HB3	2:B:530:LEU:HD21	2.01	0.41
2:B:1971:GLU:HA	2:B:1974:ASN:ND2	2.36	0.41
2:B:2062:ILE:O	2:B:2066:MET:HG2	2.20	0.41
2:B:2478:ILE:HB	2:B:2531:CYS:SG	2.60	0.41
2:B:2593:VAL:HG12	2:B:2644:LEU:HB2	2.02	0.41
2:B:2891:ASP:OD1	2:B:2892:ILE:N	2.54	0.41
2:B:3178:HIS:HB2	2:B:3265:CYS:HA	2.02	0.41
2:B:3271:GLU:O	2:B:3275:THR:HG23	2.21	0.41
2:B:4609:LYS:HD2	2:B:4615:LEU:HD13	2.02	0.41
2:B:4803:ASP:OD2	2:B:4805:LYS:HE2	2.20	0.41
2:C:436:LEU:HG	2:C:445:VAL:HG11	2.03	0.41
2:C:981:MET:SD	2:C:1059:GLY:HA3	2.60	0.41
2:C:1598:ARG:NH2	2:C:1601:ASN:OD1	2.47	0.41
2:C:1730:THR:HG22	2:C:1731:GLU:N	2.36	0.41
2:C:1900:GLU:HG2	2:C:2080:LEU:HD23	2.02	0.41
2:C:2694:SER:HA	2:C:2704:GLN:HE22	1.85	0.41
2:C:2843:MET:O	2:C:2846:GLU:HG2	2.19	0.41
2:C:2937:HIS:HA	2:C:3014:LEU:HD13	2.01	0.41
2:C:3072:MET:HE1	2:C:3140:LEU:HD12	2.02	0.41
2:C:3319:PHE:O	2:C:3322:LEU:N	2.54	0.41
2:C:3975:GLN:O	2:C:3979:VAL:HG23	2.20	0.41
2:C:4751:LYS:HG3	2:C:4754:ARG:HH12	1.86	0.41
2:D:1914:CYS:SG	2:D:2091:GLN:NE2	2.89	0.41
2:D:2285:TYR:HH	2:D:2382:ILE:H	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2488:LEU:HG	2:D:2544:LEU:HD11	2.03	0.41
2:D:3319:PHE:O	2:D:3322:LEU:N	2.54	0.41
2:D:3797:MET:HE1	2:D:3870:ILE:HG23	2.02	0.41
2:D:4105:LEU:HB3	2:D:4115:LEU:HD21	2.02	0.41
1:H:28:THR:O	1:H:30:MET:HG3	2.21	0.41
2:A:1825:PHE:CZ	2:A:1842:ILE:HD12	2.55	0.41
2:A:1971:GLU:HA	2:A:1974:ASN:ND2	2.36	0.41
2:A:4687:LYS:HD3	2:A:4687:LYS:HA	1.87	0.41
2:B:125:TYR:CE1	2:B:417:ARG:HG2	2.56	0.41
2:B:678:MET:SD	2:B:801:ARG:NH2	2.93	0.41
2:B:1019:GLY:HA3	2:B:1028:ARG:HB3	2.02	0.41
2:B:1282:CYS:SG	2:B:1556:GLU:HG2	2.61	0.41
2:B:1559:ARG:HB3	2:B:1565:PRO:HB3	2.03	0.41
2:B:1610:ARG:HD3	2:B:1617:TRP:CE2	2.56	0.41
2:B:1730:THR:HG22	2:B:1731:GLU:N	2.36	0.41
2:B:1829:LEU:HD12	2:B:1829:LEU:HA	1.88	0.41
2:C:902:TRP:CG	2:C:918:LEU:HD21	2.55	0.41
2:C:983:LEU:HD12	2:C:983:LEU:HA	1.94	0.41
2:C:2433:VAL:HG13	2:C:2490:VAL:HG21	2.02	0.41
2:C:3178:HIS:HB2	2:C:3265:CYS:HA	2.02	0.41
2:C:3184:TYR:HB3	2:C:3192:ARG:NH2	2.36	0.41
2:C:3237:VAL:C	2:C:3240:PRO:HD2	2.46	0.41
2:C:3271:GLU:O	2:C:3275:THR:HG23	2.21	0.41
2:C:3664:LEU:HD21	2:C:3731:LEU:HD23	2.02	0.41
2:C:4843:ARG:NH1	2:C:4847:ASP:OD2	2.54	0.41
2:C:4867:ILE:HG12	2:D:4864:GLY:HA2	2.03	0.41
2:D:678:MET:SD	2:D:801:ARG:NH2	2.93	0.41
2:D:919:VAL:HG12	2:D:920:GLU:N	2.36	0.41
2:D:1282:CYS:SG	2:D:1556:GLU:HG2	2.61	0.41
2:D:1425:THR:HG22	2:D:1563:VAL:HG13	2.02	0.41
2:D:3023:GLY:N	2:D:3025:ASP:OD1	2.53	0.41
2:D:3260:ARG:HH12	2:D:3265:CYS:H	1.68	0.41
1:F:67:MET:HE3	1:F:104:LEU:HB2	2.03	0.41
2:A:42:PHE:HZ	2:A:459:LEU:HG	1.86	0.41
2:A:281:ARG:NH1	2:A:345:GLU:OE2	2.54	0.41
2:A:678:MET:SD	2:A:801:ARG:NH2	2.93	0.41
2:A:1029:ASN:OD1	2:A:1030:PRO:HD2	2.21	0.41
2:A:1943:ARG:O	2:A:1947:VAL:HG23	2.20	0.41
2:A:2445:ILE:HG22	2:A:2451:VAL:HG12	2.03	0.41
2:A:2593:VAL:HG12	2:A:2644:LEU:HB2	2.02	0.41
2:A:2638:LEU:HD23	2:A:2638:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3169:ALA:HB1	2:A:3245:TYR:OH	2.21	0.41
2:A:3237:VAL:C	2:A:3240:PRO:HD2	2.46	0.41
2:A:4049:HIS:HB2	2:A:4067:LEU:HD21	2.02	0.41
2:A:4898:PHE:O	2:A:4904:GLY:HA3	2.21	0.41
2:B:657:PRO:HB2	2:B:659:ILE:HG12	2.02	0.41
2:B:1604:LEU:HD23	2:B:1604:LEU:HA	1.92	0.41
2:B:2445:ILE:HG22	2:B:2451:VAL:HG12	2.03	0.41
2:B:2649:PHE:CE2	2:B:2932:TYR:HE2	2.38	0.41
2:B:2767:GLU:HG3	2:B:2771:TYR:CE2	2.56	0.41
2:B:3023:GLY:N	2:B:3025:ASP:OD1	2.53	0.41
2:B:3184:TYR:HB3	2:B:3192:ARG:NH2	2.36	0.41
2:B:3285:TYR:O	2:B:3329:LYS:NZ	2.54	0.41
2:B:3664:LEU:HD21	2:B:3731:LEU:HD23	2.02	0.41
2:B:4270:LYS:NZ	2:B:4278:ASP:OD1	2.25	0.41
2:C:1013:ARG:NE	2:C:1013:ARG:HA	2.35	0.41
2:C:1777:GLN:O	2:C:1778:TYR:HB2	2.20	0.41
2:C:1825:PHE:CZ	2:C:1842:ILE:HD12	2.55	0.41
2:C:2429:LEU:HD21	2:C:2483:PHE:CZ	2.56	0.41
2:C:2478:ILE:HB	2:C:2531:CYS:SG	2.60	0.41
2:C:2990:LEU:O	2:C:2990:LEU:HD12	2.21	0.41
2:C:3144:LYS:HE3	2:C:3233:HIS:NE2	2.35	0.41
2:C:4609:LYS:HD2	2:C:4615:LEU:HD13	2.02	0.41
2:D:614:LEU:HD22	2:D:632:ILE:HG12	2.03	0.41
2:D:672:LYS:NZ	2:D:818:GLY:HA3	2.35	0.41
2:D:1730:THR:HG22	2:D:1731:GLU:H	1.86	0.41
2:D:1900:GLU:HG2	2:D:2080:LEU:HD23	2.02	0.41
2:D:2478:ILE:HB	2:D:2531:CYS:SG	2.61	0.41
2:D:2593:VAL:HG12	2:D:2644:LEU:HB2	2.02	0.41
2:D:3793:LEU:HD23	2:D:3793:LEU:HA	1.93	0.41
1:E:28:THR:O	1:E:30:MET:HG3	2.21	0.41
2:A:76:ARG:NH2	2:D:3891:TYR:HA	2.36	0.41
2:A:125:TYR:CE1	2:A:417:ARG:HG2	2.56	0.41
2:A:324:VAL:O	2:A:328:ALA:HB2	2.21	0.41
2:A:742:SER:HA	2:A:746:GLN:NE2	2.36	0.41
2:A:1031:ARG:HH21	2:A:1038:LEU:CD1	2.11	0.41
2:A:1100:ARG:HG2	2:A:1167:ASP:OD1	2.21	0.41
2:A:1255:LEU:HG	2:A:1451:HIS:HB3	2.03	0.41
2:A:1268:ILE:HG21	2:A:1302:TYR:HE1	1.86	0.41
2:A:1726:ILE:HD11	2:A:2165:LEU:HD21	2.03	0.41
2:A:1730:THR:HG22	2:A:1731:GLU:H	1.86	0.41
2:A:2257:LEU:HD21	2:A:2262:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2891:ASP:OD1	2:A:2892:ILE:N	2.54	0.41
2:A:3072:MET:SD	2:A:3136:SER:HA	2.61	0.41
2:A:3166:PHE:CG	2:A:3167:PRO:HD2	2.55	0.41
2:A:3237:VAL:HG23	2:A:3238:ILE:HG13	2.02	0.41
2:A:3319:PHE:O	2:A:3322:LEU:N	2.54	0.41
2:A:3717:LYS:O	2:A:3721:LYS:HG3	2.21	0.41
2:A:4110:PRO:HG3	2:A:4966:LEU:HD12	2.02	0.41
2:A:4789:PHE:HB3	2:A:4792:PHE:HD2	1.86	0.41
2:B:281:ARG:NH1	2:B:345:GLU:OE2	2.54	0.41
2:B:981:MET:SD	2:B:1059:GLY:HA3	2.60	0.41
2:B:1011:ARG:HG3	2:B:1014:GLN:NE2	2.36	0.41
2:B:1013:ARG:HA	2:B:1013:ARG:NE	2.35	0.41
2:B:2255:LEU:O	2:B:3810:ARG:HD3	2.21	0.41
2:B:2399:LEU:HD12	2:B:2427:ILE:HD11	2.02	0.41
2:B:2433:VAL:HG13	2:B:2490:VAL:HG21	2.02	0.41
2:B:2655:LYS:HZ3	2:B:2656:LYS:H	1.67	0.41
2:B:2827:ASP:O	2:B:2831:VAL:HG23	2.21	0.41
2:B:4049:HIS:HB2	2:B:4067:LEU:HD21	2.02	0.41
2:B:4093:ASP:OD1	2:B:4094:ILE:HG13	2.21	0.41
2:B:4255:LEU:O	2:B:4258:MET:HG3	2.20	0.41
2:B:4898:PHE:O	2:B:4904:GLY:HA3	2.21	0.41
2:C:249:SER:HA	2:C:272:ARG:HD2	2.03	0.41
2:C:551:PHE:HE2	2:C:558:LEU:HD22	1.84	0.41
2:C:742:SER:HA	2:C:746:GLN:NE2	2.36	0.41
2:C:869:THR:OG1	2:C:941:LYS:HB3	2.21	0.41
2:C:906:PRO:HB2	2:C:907:VAL:HG23	2.03	0.41
2:C:1685:LEU:HD22	2:C:1706:LEU:HB2	2.03	0.41
2:C:2555:LEU:O	2:C:2561:LEU:HD11	2.21	0.41
2:C:2676:LEU:HD23	2:C:2676:LEU:HA	1.83	0.41
2:C:2831:VAL:HG22	2:D:1435:GLY:CA	2.50	0.41
2:C:2849:HIS:NE2	2:C:2877:LEU:HD11	2.36	0.41
2:C:2933:VAL:HG22	2:C:2963:PHE:HZ	1.86	0.41
2:C:3285:TYR:O	2:C:3329:LYS:NZ	2.54	0.41
2:C:4105:LEU:HB3	2:C:4115:LEU:HD21	2.02	0.41
2:C:4110:PRO:HG3	2:C:4966:LEU:HD12	2.02	0.41
2:C:4782:THR:HG22	2:C:4809:MET:HE3	2.03	0.41
2:D:269:VAL:HG12	2:D:269:VAL:O	2.20	0.41
2:D:694:ARG:HD2	2:D:718:VAL:O	2.20	0.41
2:D:742:SER:HA	2:D:746:GLN:NE2	2.36	0.41
2:D:756:SER:OG	2:D:769:ARG:HB2	2.20	0.41
2:D:890:HIS:CE1	2:D:924:LEU:HD22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1268:ILE:HG21	2:D:1302:TYR:HE1	1.86	0.41
2:D:1446:ILE:HG12	2:D:1542:ALA:HB2	2.02	0.41
2:D:2255:LEU:O	2:D:3810:ARG:HD3	2.21	0.41
2:D:2553:TYR:HE1	2:D:2557:LYS:HZ3	1.67	0.41
2:D:2767:GLU:HG3	2:D:2771:TYR:CE2	2.55	0.41
2:D:2844:MET:O	2:D:2848:TYR:HD2	2.02	0.41
2:D:3661:VAL:HG23	2:D:3666:GLN:HG2	2.02	0.41
2:D:3850:HIS:HE1	2:D:3925:GLN:OE1	2.03	0.41
2:D:3858:LEU:HD23	2:D:3858:LEU:HA	1.94	0.41
1:G:12:ASP:OD1	1:G:13:GLY:N	2.54	0.41
1:H:12:ASP:OD1	1:H:13:GLY:N	2.54	0.41
2:A:133:LEU:C	2:A:135:THR:H	2.28	0.41
2:A:1011:ARG:HG3	2:A:1014:GLN:NE2	2.36	0.41
2:A:1168:MET:HE3	2:A:1168:MET:HB3	1.93	0.41
2:A:1446:ILE:HG12	2:A:1542:ALA:HB2	2.02	0.41
2:A:2644:LEU:O	2:A:2648:ILE:HG13	2.20	0.41
2:A:2782:MET:HG2	2:A:2787:TRP:HE3	1.86	0.41
2:A:2990:LEU:HD12	2:A:2990:LEU:O	2.21	0.41
2:A:3041:ASP:HA	2:A:3117:PHE:HE2	1.86	0.41
2:A:3178:HIS:HB2	2:A:3265:CYS:HA	2.02	0.41
2:A:3669:LEU:HD23	2:A:3669:LEU:HA	1.95	0.41
2:B:436:LEU:HG	2:B:445:VAL:HG11	2.03	0.41
2:B:614:LEU:HD22	2:B:632:ILE:HG12	2.03	0.41
2:B:1029:ASN:OD1	2:B:1030:PRO:HD2	2.20	0.41
2:B:1446:ILE:HG12	2:B:1542:ALA:HB2	2.02	0.41
2:B:1726:ILE:HD11	2:B:2165:LEU:HD21	2.03	0.41
2:B:2644:LEU:O	2:B:2648:ILE:HG13	2.21	0.41
2:B:2694:SER:HA	2:B:2704:GLN:HE22	1.85	0.41
2:B:2927:GLN:HG3	2:B:2931:ARG:NE	2.35	0.41
2:B:3072:MET:SD	2:B:3136:SER:HA	2.61	0.41
2:B:4789:PHE:HB3	2:B:4792:PHE:HD2	1.86	0.41
2:C:269:VAL:HG12	2:C:269:VAL:O	2.20	0.41
2:C:483:LYS:HE2	2:C:483:LYS:HB2	1.80	0.41
2:C:678:MET:SD	2:C:801:ARG:NH2	2.93	0.41
2:C:1181:ILE:HG21	2:C:1189:GLU:HB3	2.02	0.41
2:C:1425:THR:HG22	2:C:1563:VAL:HG13	2.02	0.41
2:C:1576:LYS:HA	2:C:1576:LYS:HD3	1.95	0.41
2:C:2445:ILE:HG22	2:C:2451:VAL:HG12	2.03	0.41
2:C:2553:TYR:HE1	2:C:2557:LYS:HZ3	1.68	0.41
2:C:2782:MET:HG2	2:C:2787:TRP:HE3	1.86	0.41
2:C:3169:ALA:HB1	2:C:3245:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3235:MET:SD	2:C:3235:MET:N	2.93	0.41
2:C:3717:LYS:O	2:C:3721:LYS:HG3	2.21	0.41
2:C:3986:LEU:HD23	2:C:3986:LEU:HA	1.83	0.41
2:C:4789:PHE:HB3	2:C:4792:PHE:HD2	1.86	0.41
2:C:4898:PHE:O	2:C:4904:GLY:HA3	2.21	0.41
2:D:281:ARG:NH1	2:D:345:GLU:OE2	2.54	0.41
2:D:1777:GLN:O	2:D:1778:TYR:HB2	2.20	0.41
2:D:2429:LEU:HD21	2:D:2483:PHE:CZ	2.56	0.41
2:D:2658:GLU:OE1	2:D:2661:LEU:N	2.34	0.41
2:D:2827:ASP:O	2:D:2831:VAL:HG23	2.21	0.41
2:D:3072:MET:SD	2:D:3136:SER:HA	2.61	0.41
2:D:4827:ILE:O	2:D:4831:ILE:HG12	2.21	0.41
2:A:694:ARG:HD2	2:A:718:VAL:O	2.20	0.40
2:A:906:PRO:HB2	2:A:907:VAL:HG23	2.03	0.40
2:A:1011:ARG:CB	2:A:1032:LEU:HD21	2.51	0.40
2:A:1014:GLN:HE21	2:A:1016:TRP:CD1	2.39	0.40
2:A:1425:THR:HG22	2:A:1563:VAL:HG13	2.02	0.40
2:A:1730:THR:HG22	2:A:1731:GLU:N	2.36	0.40
2:A:2420:ARG:HD3	2:A:2424:ARG:NE	2.37	0.40
2:A:4058:TYR:HD1	2:A:4062:GLU:HB3	1.84	0.40
2:B:249:SER:HA	2:B:272:ARG:HD2	2.03	0.40
2:B:897:LYS:HB3	2:B:902:TRP:HB3	2.03	0.40
2:B:919:VAL:HG12	2:B:920:GLU:N	2.36	0.40
2:B:2214:MET:HE2	2:B:2242:VAL:HG11	2.02	0.40
2:B:3975:GLN:O	2:B:3979:VAL:HG23	2.20	0.40
2:B:4753:LEU:HD12	2:B:4753:LEU:HA	1.91	0.40
2:C:962:LYS:HZ2	2:C:982:ASP:H	1.68	0.40
2:C:1559:ARG:HB3	2:C:1565:PRO:HB3	2.03	0.40
2:C:1914:CYS:SG	2:C:2091:GLN:NE2	2.89	0.40
2:C:2137:GLU:HG2	2:C:2138:GLU:N	2.35	0.40
2:C:2409:ILE:HG12	2:C:2420:ARG:NH2	2.36	0.40
2:C:2891:ASP:OD1	2:C:2892:ILE:N	2.54	0.40
2:C:3150:ARG:NH2	2:C:3151:GLN:HB3	2.36	0.40
2:C:3260:ARG:HH12	2:C:3265:CYS:H	1.68	0.40
2:C:4563:GLU:HG2	2:C:4566:GLY:H	1.86	0.40
2:D:21:VAL:HG23	2:D:215:ALA:HB3	2.03	0.40
2:D:324:VAL:O	2:D:328:ALA:HB2	2.21	0.40
2:D:520:ARG:HH11	2:D:521:GLU:HB3	1.85	0.40
2:D:521:GLU:HG2	2:D:522:ALA:N	2.34	0.40
2:D:1100:ARG:HG2	2:D:1167:ASP:OD1	2.21	0.40
2:D:2187:ILE:HG13	2:D:2227:VAL:HG13	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2798:MET:HA	2:D:2798:MET:CE	2.51	0.40
2:D:2927:GLN:HG3	2:D:2931:ARG:NE	2.35	0.40
2:D:2990:LEU:HD12	2:D:2990:LEU:O	2.21	0.40
2:D:3130:CYS:HA	2:D:3133:ILE:HD12	2.02	0.40
2:D:3172:GLU:O	2:D:3176:ASP:N	2.54	0.40
2:D:3237:VAL:C	2:D:3240:PRO:HD2	2.46	0.40
2:D:3271:GLU:O	2:D:3275:THR:HG23	2.21	0.40
2:D:3664:LEU:HD21	2:D:3731:LEU:HD23	2.02	0.40
2:D:4609:LYS:HD2	2:D:4615:LEU:HD13	2.02	0.40
2:D:4751:LYS:HG3	2:D:4754:ARG:HH12	1.86	0.40
2:D:4789:PHE:HB3	2:D:4792:PHE:HD2	1.86	0.40
2:A:349:MET:HE2	2:A:349:MET:HA	2.02	0.40
2:A:889:ILE:HA	2:A:892:LEU:HB2	2.04	0.40
2:A:2399:LEU:HD12	2:A:2427:ILE:HD11	2.02	0.40
2:A:2488:LEU:HD23	2:A:2544:LEU:HD21	2.03	0.40
2:A:2555:LEU:O	2:A:2561:LEU:HD11	2.21	0.40
2:A:2736:LYS:HA	2:A:2736:LYS:HD3	1.82	0.40
2:A:2827:ASP:O	2:A:2831:VAL:HG23	2.21	0.40
2:A:3145:SER:O	2:A:3148:VAL:HG12	2.20	0.40
2:A:3184:TYR:HB3	2:A:3192:ARG:NH2	2.36	0.40
2:A:3796:LEU:HD22	2:A:3835:PHE:HZ	1.86	0.40
2:A:4827:ILE:O	2:A:4831:ILE:HG12	2.21	0.40
2:B:742:SER:HA	2:B:746:GLN:NE2	2.36	0.40
2:B:756:SER:OG	2:B:769:ARG:HB2	2.20	0.40
2:B:1029:ASN:C	2:B:1031:ARG:N	2.77	0.40
2:B:2849:HIS:NE2	2:B:2877:LEU:HD11	2.36	0.40
2:B:3072:MET:HE1	2:B:3140:LEU:HD12	2.02	0.40
2:B:3150:ARG:NH2	2:B:3151:GLN:HB3	2.36	0.40
2:B:3166:PHE:CG	2:B:3167:PRO:HD2	2.55	0.40
2:B:3172:GLU:O	2:B:3176:ASP:N	2.54	0.40
2:B:3796:LEU:HD22	2:B:3835:PHE:HZ	1.86	0.40
2:C:614:LEU:HD22	2:C:632:ILE:HG12	2.02	0.40
2:C:1011:ARG:HG3	2:C:1014:GLN:NE2	2.36	0.40
2:C:1029:ASN:HD21	2:C:1031:ARG:HB2	1.86	0.40
2:C:1255:LEU:HG	2:C:1451:HIS:HB3	2.03	0.40
2:C:1730:THR:HG22	2:C:1731:GLU:H	1.86	0.40
2:C:1921:ARG:O	2:C:1925:ILE:HG13	2.21	0.40
2:C:3130:CYS:HA	2:C:3133:ILE:HD12	2.02	0.40
2:C:3233:HIS:O	2:C:3236:GLU:HG2	2.20	0.40
2:C:3288:LEU:HB2	2:C:3329:LYS:NZ	2.36	0.40
2:C:4093:ASP:OD1	2:C:4094:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2891:ASP:OD1	2:D:2892:ILE:N	2.54	0.40
2:D:3107:SER:HA	2:D:3110:GLU:HG2	2.03	0.40
2:D:3184:TYR:HB3	2:D:3192:ARG:NH2	2.36	0.40
2:D:3278:GLY:O	2:D:3282:LYS:HG2	2.21	0.40
2:D:3796:LEU:HD22	2:D:3835:PHE:HZ	1.85	0.40
2:D:4698:LEU:HD23	2:D:4698:LEU:HA	1.95	0.40
2:D:4925:LEU:HD12	2:D:4925:LEU:HA	1.89	0.40
1:E:67:MET:HE3	1:E:104:LEU:HB2	2.03	0.40
2:A:505:LEU:HA	2:A:505:LEU:HD23	1.88	0.40
2:A:555:LEU:HD11	2:A:578:VAL:HG11	2.02	0.40
2:A:1921:ARG:O	2:A:1925:ILE:HG13	2.21	0.40
2:A:3605:MET:HB3	2:A:3605:MET:HE2	1.49	0.40
2:A:3906:PHE:HB3	2:A:3967:LEU:HD11	2.03	0.40
2:B:21:VAL:HG23	2:B:215:ALA:HB3	2.03	0.40
2:B:623:VAL:HA	2:B:2131:SER:O	2.22	0.40
2:B:644:LEU:HD13	2:B:1630:LEU:HD21	2.03	0.40
2:B:655:MET:SD	2:B:836:HIS:HA	2.61	0.40
2:B:1040:ASP:HA	2:B:1043:LYS:HE2	2.02	0.40
2:B:1685:LEU:HD22	2:B:1706:LEU:HB2	2.03	0.40
2:B:1777:GLN:O	2:B:1778:TYR:HB2	2.20	0.40
2:B:1921:ARG:O	2:B:1925:ILE:HG13	2.21	0.40
2:B:2666:LEU:HB3	2:B:2667:PRO:HD3	2.04	0.40
2:B:3144:LYS:HE3	2:B:3233:HIS:NE2	2.35	0.40
2:B:3208:ILE:HA	2:B:3209:PRO:HD3	1.96	0.40
2:B:3235:MET:SD	2:B:3235:MET:N	2.93	0.40
2:B:4625:ASP:OD1	2:B:4625:ASP:N	2.46	0.40
2:C:258:ARG:HH12	2:C:317:MET:HA	1.87	0.40
2:C:644:LEU:HD13	2:C:1630:LEU:HD21	2.04	0.40
2:C:888:ASN:ND2	2:C:1060:TYR:OH	2.23	0.40
2:C:897:LYS:HB3	2:C:902:TRP:HB3	2.03	0.40
2:C:1610:ARG:HD3	2:C:1617:TRP:CE2	2.56	0.40
2:C:1914:CYS:O	2:C:1918:VAL:HG23	2.21	0.40
2:C:1971:GLU:HA	2:C:1974:ASN:ND2	2.36	0.40
2:C:1986:CYS:HA	2:C:1987:PRO:HD3	1.91	0.40
2:C:2666:LEU:HB3	2:C:2667:PRO:HD3	2.04	0.40
2:C:3890:TRP:HB3	2:D:76:ARG:HG2	2.03	0.40
2:C:3906:PHE:HB3	2:C:3967:LEU:HD11	2.03	0.40
2:C:4841:ILE:HD12	2:C:4841:ILE:HA	1.98	0.40
2:D:644:LEU:HD13	2:D:1630:LEU:HD21	2.03	0.40
2:D:889:ILE:HA	2:D:892:LEU:HB2	2.04	0.40
2:D:1100:ARG:HB3	2:D:1236:TYR:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2555:LEU:O	2:D:2561:LEU:HD11	2.21	0.40
2:D:3169:ALA:HB1	2:D:3245:TYR:OH	2.21	0.40
2:D:3819:MET:HE2	2:D:3819:MET:HB2	1.75	0.40
2:D:4898:PHE:O	2:D:4904:GLY:HA3	2.21	0.40
2:A:614:LEU:HD22	2:A:632:ILE:HG12	2.02	0.40
2:A:1019:GLY:HA3	2:A:1028:ARG:HB3	2.02	0.40
2:A:1100:ARG:HB3	2:A:1236:TYR:CD1	2.57	0.40
2:A:1255:LEU:HD12	2:A:1255:LEU:HA	1.91	0.40
2:A:2429:LEU:HA	2:A:2476:TYR:HE2	1.87	0.40
2:A:2933:VAL:HG22	2:A:2963:PHE:HZ	1.86	0.40
2:A:2943:PHE:HD1	2:A:2954:PHE:CE2	2.39	0.40
2:A:3271:GLU:O	2:A:3275:THR:HG23	2.20	0.40
2:A:3288:LEU:HB2	2:A:3329:LYS:NZ	2.36	0.40
2:A:3926:GLY:O	2:A:3927:PRO:C	2.65	0.40
2:B:42:PHE:HZ	2:B:459:LEU:HG	1.86	0.40
2:B:869:THR:OG1	2:B:941:LYS:HB3	2.21	0.40
2:B:1730:THR:HG22	2:B:1731:GLU:H	1.86	0.40
2:B:1956:ALA:O	2:B:1960:ARG:HG3	2.22	0.40
2:B:2200:LEU:HD23	2:B:2200:LEU:HA	1.93	0.40
2:B:2748:SER:HB3	2:B:2751:SER:HB3	2.03	0.40
2:B:3041:ASP:HA	2:B:3117:PHE:HE2	1.86	0.40
2:B:3159:LEU:HG	2:B:3241:MET:HB3	2.04	0.40
2:B:3319:PHE:O	2:B:3322:LEU:N	2.54	0.40
2:C:324:VAL:O	2:C:328:ALA:HB2	2.21	0.40
2:C:555:LEU:HD11	2:C:578:VAL:HG11	2.02	0.40
2:C:686:VAL:HG13	2:C:687:THR:HG23	2.04	0.40
2:C:1100:ARG:HG2	2:C:1167:ASP:OD1	2.21	0.40
2:C:1268:ILE:HG21	2:C:1302:TYR:HE1	1.86	0.40
2:C:2488:LEU:HD23	2:C:2544:LEU:HD21	2.03	0.40
2:C:2827:ASP:O	2:C:2831:VAL:HG23	2.21	0.40
2:D:42:PHE:HZ	2:D:459:LEU:HG	1.86	0.40
2:D:983:LEU:HD12	2:D:983:LEU:HA	1.94	0.40
2:D:1014:GLN:HE21	2:D:1016:TRP:CD1	2.39	0.40
2:D:1730:THR:HG22	2:D:1731:GLU:N	2.36	0.40
2:D:1914:CYS:O	2:D:1918:VAL:HG23	2.21	0.40
2:D:1956:ALA:O	2:D:1960:ARG:HG3	2.22	0.40
2:D:1971:GLU:HA	2:D:1974:ASN:ND2	2.36	0.40
2:D:2638:LEU:HD23	2:D:2638:LEU:HA	1.93	0.40
2:D:3717:LYS:O	2:D:3721:LYS:HG3	2.21	0.40
1:F:88:HIS:HD2	1:F:89:PRO:HD2	1.87	0.40
1:G:67:MET:HE3	1:G:104:LEU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1719:LEU:HD21	2:A:1830:ILE:HD12	2.04	0.40
2:A:2095:ILE:HD12	2:A:2095:ILE:HA	1.93	0.40
2:A:2488:LEU:HG	2:A:2544:LEU:HD11	2.03	0.40
2:A:2518:ARG:O	2:A:2522:THR:OG1	2.36	0.40
2:A:3172:GLU:O	2:A:3176:ASP:N	2.54	0.40
2:A:4563:GLU:HG2	2:A:4566:GLY:H	1.86	0.40
2:A:4843:ARG:NH1	2:A:4847:ASP:OD2	2.54	0.40
2:B:672:LYS:NZ	2:B:818:GLY:HA3	2.35	0.40
2:B:988:LEU:HB2	2:B:1055:ARG:NE	2.26	0.40
2:B:1014:GLN:HE21	2:B:1016:TRP:CD1	2.39	0.40
2:B:1100:ARG:HG2	2:B:1167:ASP:OD1	2.21	0.40
2:B:2933:VAL:HG22	2:B:2963:PHE:HZ	1.86	0.40
2:B:3068:LEU:O	2:B:3072:MET:HG2	2.22	0.40
2:B:3169:ALA:HB1	2:B:3245:TYR:OH	2.21	0.40
2:B:4563:GLU:HG2	2:B:4566:GLY:H	1.86	0.40
2:B:4751:LYS:HG3	2:B:4754:ARG:HH12	1.86	0.40
2:C:281:ARG:NH1	2:C:345:GLU:OE2	2.54	0.40
2:C:1011:ARG:CB	2:C:1032:LEU:HD21	2.51	0.40
2:C:1040:ASP:HA	2:C:1043:LYS:HE2	2.02	0.40
2:C:1940:GLN:NE2	2:C:1964:GLU:OE2	2.55	0.40
2:C:3172:GLU:O	2:C:3176:ASP:N	2.55	0.40
2:C:3187:LYS:HZ1	2:C:3191:GLU:HB3	1.85	0.40
2:C:4827:ILE:O	2:C:4831:ILE:HG12	2.21	0.40
2:D:387:ILE:HD11	2:D:389:ARG:CZ	2.52	0.40
2:D:1011:ARG:HG3	2:D:1014:GLN:NE2	2.36	0.40
2:D:2214:MET:HE2	2:D:2242:VAL:HG11	2.02	0.40
2:D:2619:LYS:O	2:D:2626:GLY:HA2	2.22	0.40
2:D:2649:PHE:CE2	2:D:2932:TYR:HE2	2.38	0.40
2:D:3975:GLN:O	2:D:3979:VAL:HG23	2.20	0.40
2:D:4726:MET:HE2	2:D:4726:MET:HA	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	A	4198/4967 (84%)	4061 (97%)	132 (3%)	5 (0%)	48	79
2	B	4198/4967 (84%)	4061 (97%)	132 (3%)	5 (0%)	48	79
2	C	4198/4967 (84%)	4061 (97%)	132 (3%)	5 (0%)	48	79
2	D	4198/4967 (84%)	4060 (97%)	133 (3%)	5 (0%)	48	79
All	All	17212/20300 (85%)	16655 (97%)	537 (3%)	20 (0%)	49	79

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	3927	PRO
2	A	4641	PRO
2	B	3927	PRO
2	B	4641	PRO
2	C	3927	PRO
2	C	4641	PRO
2	D	3927	PRO
2	D	4641	PRO
2	A	3262	GLU
2	B	3262	GLU
2	C	3262	GLU
2	D	3262	GLU
2	A	3292	GLU
2	B	3292	GLU
2	C	3292	GLU
2	D	3292	GLU
2	A	1836	ASN
2	B	1836	ASN
2	C	1836	ASN
2	D	1836	ASN

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	E	88/89 (99%)	86 (98%)	2 (2%)	44	64
1	F	88/89 (99%)	86 (98%)	2 (2%)	44	64
1	G	88/89 (99%)	86 (98%)	2 (2%)	44	64
1	H	88/89 (99%)	86 (98%)	2 (2%)	44	64
2	A	3708/4358 (85%)	3680 (99%)	28 (1%)	73	77
2	B	3708/4358 (85%)	3680 (99%)	28 (1%)	73	77
2	C	3708/4358 (85%)	3680 (99%)	28 (1%)	73	77
2	D	3708/4358 (85%)	3680 (99%)	28 (1%)	73	77
All	All	15184/17788 (85%)	15064 (99%)	120 (1%)	70	77

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	19	LYS
1	E	67	MET
1	F	19	LYS
1	F	67	MET
1	G	19	LYS
1	G	67	MET
1	H	19	LYS
1	H	67	MET
2	A	344	LYS
2	A	891	GLU
2	A	894	VAL
2	A	917	CYS
2	A	931	TYR
2	A	933	LEU
2	A	934	GLN
2	A	935	MET
2	A	944	LEU
2	A	1011	ARG
2	A	1017	THR

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Mol	Chain	Res	Type
2	A	1021	GLN
2	A	1043	LYS
2	A	1044	LYS
2	A	1046	ASN
2	A	1048	ASP
2	A	1049	SER
2	A	1050	LEU
2	A	2134	MET
2	A	2347	MET
2	A	2605	MET
2	A	2689	MET
2	A	2798	MET
2	A	2886	ARG
2	A	3262	GLU
2	A	3689	MET
2	A	3819	MET
2	A	4012	MET
2	B	344	LYS
2	B	891	GLU
2	B	894	VAL
2	B	917	CYS
2	B	931	TYR
2	B	933	LEU
2	B	934	GLN
2	B	935	MET
2	B	944	LEU
2	B	1011	ARG
2	B	1017	THR
2	B	1021	GLN
2	B	1043	LYS
2	B	1044	LYS
2	B	1046	ASN
2	B	1048	ASP
2	B	1049	SER
2	B	1050	LEU
2	B	2134	MET
2	B	2347	MET
2	B	2605	MET
2	B	2689	MET
2	B	2798	MET
2	B	2886	ARG
2	B	3262	GLU

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Mol	Chain	Res	Type
2	B	3689	MET
2	B	3819	MET
2	B	4012	MET
2	C	344	LYS
2	C	891	GLU
2	C	894	VAL
2	C	917	CYS
2	C	931	TYR
2	C	933	LEU
2	C	934	GLN
2	C	935	MET
2	C	944	LEU
2	C	1011	ARG
2	C	1017	THR
2	C	1021	GLN
2	C	1043	LYS
2	C	1044	LYS
2	C	1046	ASN
2	C	1048	ASP
2	C	1049	SER
2	C	1050	LEU
2	C	2134	MET
2	C	2347	MET
2	C	2605	MET
2	C	2689	MET
2	C	2798	MET
2	C	2886	ARG
2	C	3262	GLU
2	C	3689	MET
2	C	3819	MET
2	C	4012	MET
2	D	344	LYS
2	D	891	GLU
2	D	894	VAL
2	D	917	CYS
2	D	931	TYR
2	D	933	LEU
2	D	934	GLN
2	D	935	MET
2	D	944	LEU
2	D	1011	ARG
2	D	1017	THR

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Mol	Chain	Res	Type
2	D	1021	GLN
2	D	1043	LYS
2	D	1044	LYS
2	D	1046	ASN
2	D	1048	ASP
2	D	1049	SER
2	D	1050	LEU
2	D	2134	MET
2	D	2347	MET
2	D	2605	MET
2	D	2689	MET
2	D	2798	MET
2	D	2886	ARG
2	D	3262	GLU
2	D	3689	MET
2	D	3819	MET
2	D	4012	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (174) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	71	GLN
1	E	106	ASN
1	F	71	GLN
1	G	71	GLN
1	G	106	ASN
1	H	71	GLN
2	A	29	HIS
2	A	33	GLN
2	A	84	ASN
2	A	117	HIS
2	A	375	GLN
2	A	457	GLN
2	A	731	HIS
2	A	890	HIS
2	A	896	ASN
2	A	1014	GLN
2	A	1046	ASN
2	A	1151	HIS
2	A	1233	GLN
2	A	1287	GLN
2	A	1805	HIS

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Mol	Chain	Res	Type
2	A	1970	GLN
2	A	1978	ASN
2	A	2089	HIS
2	A	2486	HIS
2	A	2722	ASN
2	A	2830	ASN
2	A	2847	ASN
2	A	2927	GLN
2	A	3034	HIS
2	A	3287	ASN
2	A	3634	HIS
2	A	3727	GLN
2	A	3770	ASN
2	A	3811	GLN
2	A	3850	HIS
2	A	3869	ASN
2	A	3901	GLN
2	A	4049	HIS
2	A	4060	GLN
2	A	4075	ASN
2	A	4108	HIS
2	A	4159	GLN
2	A	4579	HIS
2	A	4933	HIS
2	A	4967	ASN
2	B	29	HIS
2	B	33	GLN
2	B	84	ASN
2	B	117	HIS
2	B	375	GLN
2	B	457	GLN
2	B	669	GLN
2	B	731	HIS
2	B	890	HIS
2	B	896	ASN
2	B	1014	GLN
2	B	1046	ASN
2	B	1233	GLN
2	B	1287	GLN
2	B	1805	HIS
2	B	1835	HIS
2	B	1970	GLN

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Mol	Chain	Res	Type
2	B	1978	ASN
2	B	2089	HIS
2	B	2486	HIS
2	B	2722	ASN
2	B	2830	ASN
2	B	2847	ASN
2	B	2927	GLN
2	B	3034	HIS
2	B	3115	HIS
2	B	3269	ASN
2	B	3287	ASN
2	B	3634	HIS
2	B	3727	GLN
2	B	3770	ASN
2	B	3811	GLN
2	B	3850	HIS
2	B	3869	ASN
2	B	3901	GLN
2	B	4049	HIS
2	B	4060	GLN
2	B	4075	ASN
2	B	4108	HIS
2	B	4159	GLN
2	B	4579	HIS
2	B	4879	GLN
2	B	4933	HIS
2	B	4967	ASN
2	C	29	HIS
2	C	33	GLN
2	C	84	ASN
2	C	117	HIS
2	C	168	GLN
2	C	375	GLN
2	C	457	GLN
2	C	669	GLN
2	C	731	HIS
2	C	890	HIS
2	C	896	ASN
2	C	1014	GLN
2	C	1046	ASN
2	C	1233	GLN
2	C	1287	GLN

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Mol	Chain	Res	Type
2	C	1805	HIS
2	C	1836	ASN
2	C	1970	GLN
2	C	1978	ASN
2	C	2291	ASN
2	C	2486	HIS
2	C	2830	ASN
2	C	2847	ASN
2	C	2927	GLN
2	C	3034	HIS
2	C	3115	HIS
2	C	3269	ASN
2	C	3287	ASN
2	C	3727	GLN
2	C	3770	ASN
2	C	3811	GLN
2	C	3850	HIS
2	C	3869	ASN
2	C	3882	GLN
2	C	3901	GLN
2	C	4049	HIS
2	C	4060	GLN
2	C	4088	HIS
2	C	4108	HIS
2	C	4159	GLN
2	C	4579	HIS
2	C	4879	GLN
2	C	4933	HIS
2	C	4967	ASN
2	D	29	HIS
2	D	84	ASN
2	D	117	HIS
2	D	168	GLN
2	D	375	GLN
2	D	457	GLN
2	D	669	GLN
2	D	731	HIS
2	D	890	HIS
2	D	896	ASN
2	D	1014	GLN
2	D	1046	ASN
2	D	1233	GLN

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Mol	Chain	Res	Type
2	D	1287	GLN
2	D	1805	HIS
2	D	1835	HIS
2	D	1917	GLN
2	D	1970	GLN
2	D	1978	ASN
2	D	2089	HIS
2	D	2486	HIS
2	D	2722	ASN
2	D	2830	ASN
2	D	2847	ASN
2	D	2927	GLN
2	D	3034	HIS
2	D	3115	HIS
2	D	3287	ASN
2	D	3727	GLN
2	D	3770	ASN
2	D	3811	GLN
2	D	3850	HIS
2	D	3869	ASN
2	D	4060	GLN
2	D	4075	ASN
2	D	4108	HIS
2	D	4159	GLN
2	D	4579	HIS
2	D	4933	HIS
2	D	4967	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 16 ligands modelled in this entry, 4 are monoatomic - leaving 12 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
5	KVR	B	5004	-	24,25,25	0.49	0	31,34,34	0.82	2 (6%)
4	ATP	A	5003	-	32,33,33	0.54	0	48,52,52	0.57	0
4	ATP	C	5003	-	32,33,33	0.54	0	48,52,52	0.57	0
5	KVR	C	5004	-	24,25,25	0.52	0	31,34,34	0.83	2 (6%)
5	KVR	D	5004	-	24,25,25	0.50	0	31,34,34	0.83	2 (6%)
5	KVR	A	5004	-	24,25,25	0.51	0	31,34,34	0.83	2 (6%)
4	ATP	A	5002	-	32,33,33	0.31	0	48,52,52	0.37	0
4	ATP	D	5003	-	32,33,33	0.56	0	48,52,52	0.57	0
4	ATP	B	5002	-	32,33,33	0.31	0	48,52,52	0.37	0
4	ATP	D	5002	-	32,33,33	0.31	0	48,52,52	0.37	0
4	ATP	C	5002	-	32,33,33	0.32	0	48,52,52	0.37	0
4	ATP	B	5003	-	32,33,33	0.55	0	48,52,52	0.57	0

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
5	KVR	B	5004	-	-	6/10/20/20	0/2/3/3
4	ATP	A	5003	-	-	6/22/38/38	0/3/3/3
4	ATP	C	5003	-	-	6/22/38/38	0/3/3/3
5	KVR	C	5004	-	-	6/10/20/20	0/2/3/3
5	KVR	D	5004	-	-	6/10/20/20	0/2/3/3
5	KVR	A	5004	-	-	6/10/20/20	0/2/3/3
4	ATP	A	5002	-	-	5/22/38/38	0/3/3/3
4	ATP	D	5003	-	-	6/22/38/38	0/3/3/3
4	ATP	B	5002	-	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ATP	D	5002	-	-	5/22/38/38	0/3/3/3
4	ATP	C	5002	-	-	5/22/38/38	0/3/3/3
4	ATP	B	5003	-	-	6/22/38/38	0/3/3/3

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	5004	KVR	C10-S09-C06	3.24	107.30	102.71
5	D	5004	KVR	C10-S09-C06	3.23	107.28	102.71
5	A	5004	KVR	C10-S09-C06	3.22	107.28	102.71
5	B	5004	KVR	C10-S09-C06	3.18	107.21	102.71
5	B	5004	KVR	C14-N12-C11	2.12	114.54	111.09
5	D	5004	KVR	C14-N12-C11	2.08	114.49	111.09
5	C	5004	KVR	C14-N12-C11	2.08	114.48	111.09
5	A	5004	KVR	C14-N12-C11	2.08	114.47	111.09

There are no chirality outliers.

All (68) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	5002	ATP	C5'-O5'-PA-O2A
4	A	5003	ATP	C5'-O5'-PA-O1A
4	A	5003	ATP	C5'-O5'-PA-O2A
4	A	5003	ATP	C5'-O5'-PA-O3A
4	B	5002	ATP	C5'-O5'-PA-O2A
4	B	5003	ATP	C5'-O5'-PA-O1A
4	B	5003	ATP	C5'-O5'-PA-O2A
4	B	5003	ATP	C5'-O5'-PA-O3A
4	C	5002	ATP	C5'-O5'-PA-O2A
4	C	5003	ATP	C5'-O5'-PA-O1A
4	C	5003	ATP	C5'-O5'-PA-O2A
4	C	5003	ATP	C5'-O5'-PA-O3A
4	D	5002	ATP	C5'-O5'-PA-O2A
4	D	5003	ATP	C5'-O5'-PA-O1A
4	D	5003	ATP	C5'-O5'-PA-O2A
4	D	5003	ATP	C5'-O5'-PA-O3A
5	A	5004	KVR	C04-C03-O02-C01
5	A	5004	KVR	C08-C03-O02-C01
5	B	5004	KVR	C04-C03-O02-C01

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Mol	Chain	Res	Type	Atoms
5	B	5004	KVR	C08-C03-O02-C01
5	C	5004	KVR	C04-C03-O02-C01
5	C	5004	KVR	C08-C03-O02-C01
5	D	5004	KVR	C04-C03-O02-C01
5	D	5004	KVR	C08-C03-O02-C01
4	A	5002	ATP	C3'-C4'-C5'-O5'
4	B	5002	ATP	C3'-C4'-C5'-O5'
4	C	5002	ATP	C3'-C4'-C5'-O5'
4	D	5002	ATP	C3'-C4'-C5'-O5'
5	A	5004	KVR	C19-C18-C21-O23
5	C	5004	KVR	C19-C18-C21-O23
5	D	5004	KVR	C19-C18-C21-O23
5	B	5004	KVR	C19-C18-C21-O23
5	A	5004	KVR	C17-C18-C21-O23
5	B	5004	KVR	C17-C18-C21-O23
5	C	5004	KVR	C17-C18-C21-O23
5	D	5004	KVR	C17-C18-C21-O23
5	C	5004	KVR	C19-C18-C21-O22
5	D	5004	KVR	C19-C18-C21-O22
5	A	5004	KVR	C19-C18-C21-O22
5	B	5004	KVR	C19-C18-C21-O22
5	A	5004	KVR	C17-C18-C21-O22
5	D	5004	KVR	C17-C18-C21-O22
5	B	5004	KVR	C17-C18-C21-O22
5	C	5004	KVR	C17-C18-C21-O22
4	A	5002	ATP	O4'-C4'-C5'-O5'
4	A	5003	ATP	O4'-C4'-C5'-O5'
4	B	5002	ATP	O4'-C4'-C5'-O5'
4	B	5003	ATP	O4'-C4'-C5'-O5'
4	C	5002	ATP	O4'-C4'-C5'-O5'
4	C	5003	ATP	O4'-C4'-C5'-O5'
4	D	5002	ATP	O4'-C4'-C5'-O5'
4	D	5003	ATP	O4'-C4'-C5'-O5'
4	A	5003	ATP	C3'-C4'-C5'-O5'
4	B	5003	ATP	C3'-C4'-C5'-O5'
4	C	5003	ATP	C3'-C4'-C5'-O5'
4	D	5003	ATP	C3'-C4'-C5'-O5'
4	A	5002	ATP	C5'-O5'-PA-O1A
4	A	5002	ATP	C5'-O5'-PA-O3A
4	B	5002	ATP	C5'-O5'-PA-O1A
4	B	5002	ATP	C5'-O5'-PA-O3A
4	C	5002	ATP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
4	C	5002	ATP	C5'-O5'-PA-O3A
4	D	5002	ATP	C5'-O5'-PA-O1A
4	D	5002	ATP	C5'-O5'-PA-O3A
4	A	5003	ATP	PA-O3A-PB-O2B
4	B	5003	ATP	PA-O3A-PB-O2B
4	C	5003	ATP	PA-O3A-PB-O2B
4	D	5003	ATP	PA-O3A-PB-O2B

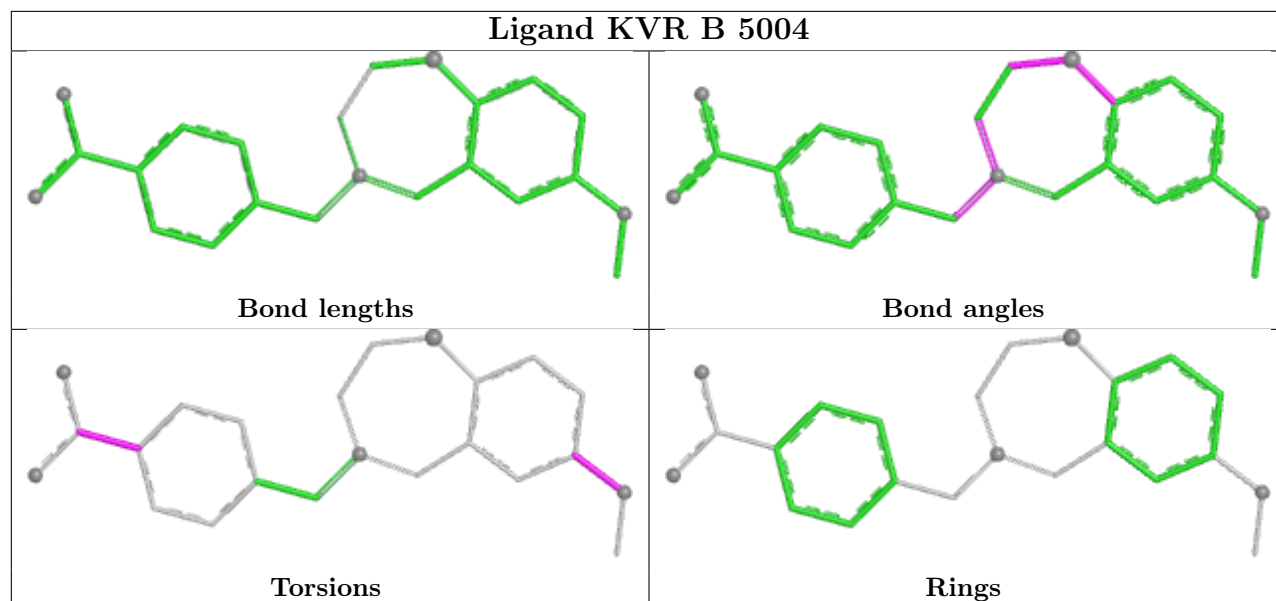
There are no ring outliers.

8 monomers are involved in 16 short contacts:

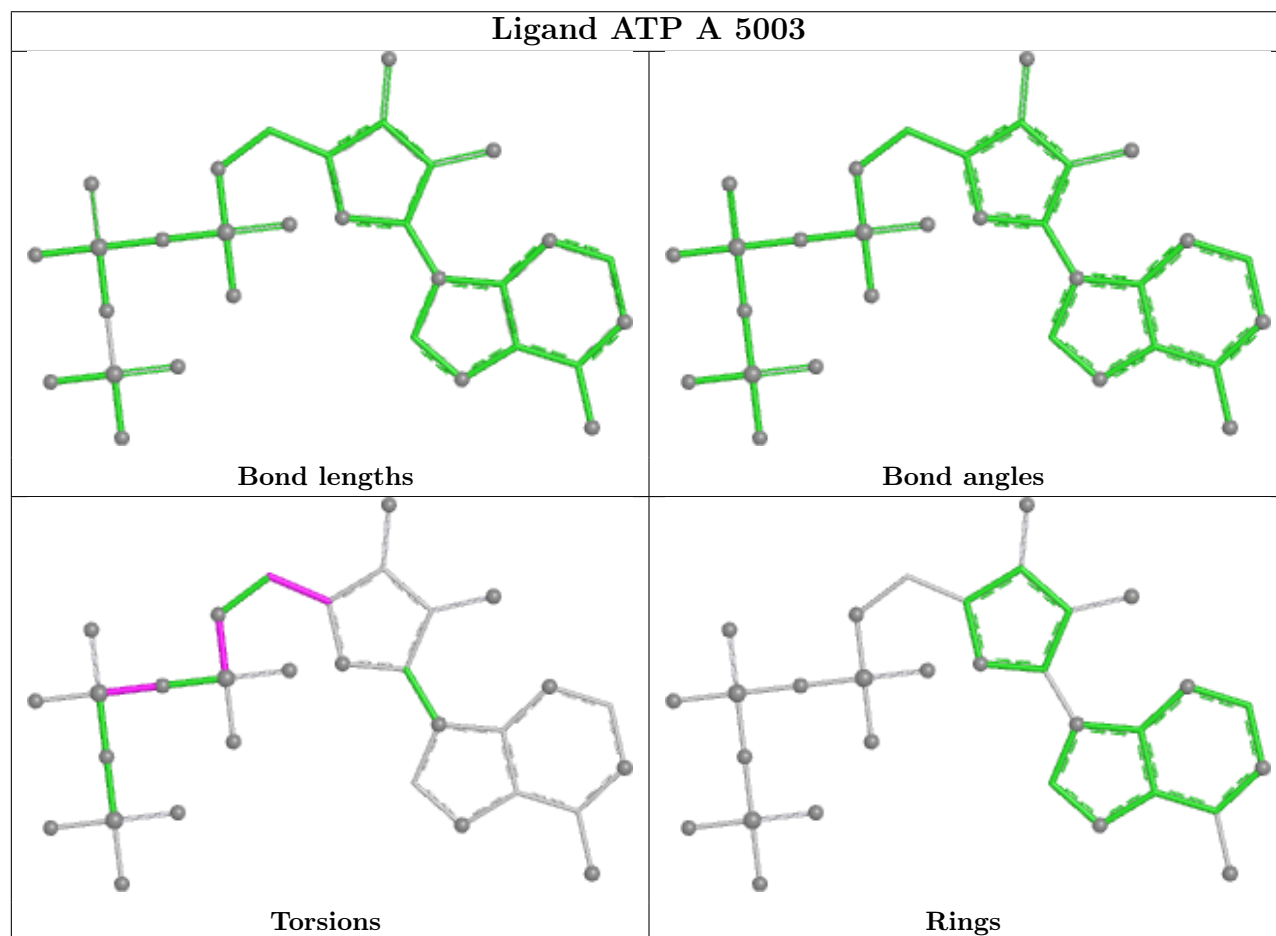
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	5004	KVR	2	0
4	A	5003	ATP	3	0
4	C	5003	ATP	3	0
5	C	5004	KVR	2	0
5	D	5004	KVR	2	0
5	A	5004	KVR	2	0
4	D	5003	ATP	3	0
4	B	5003	ATP	3	0

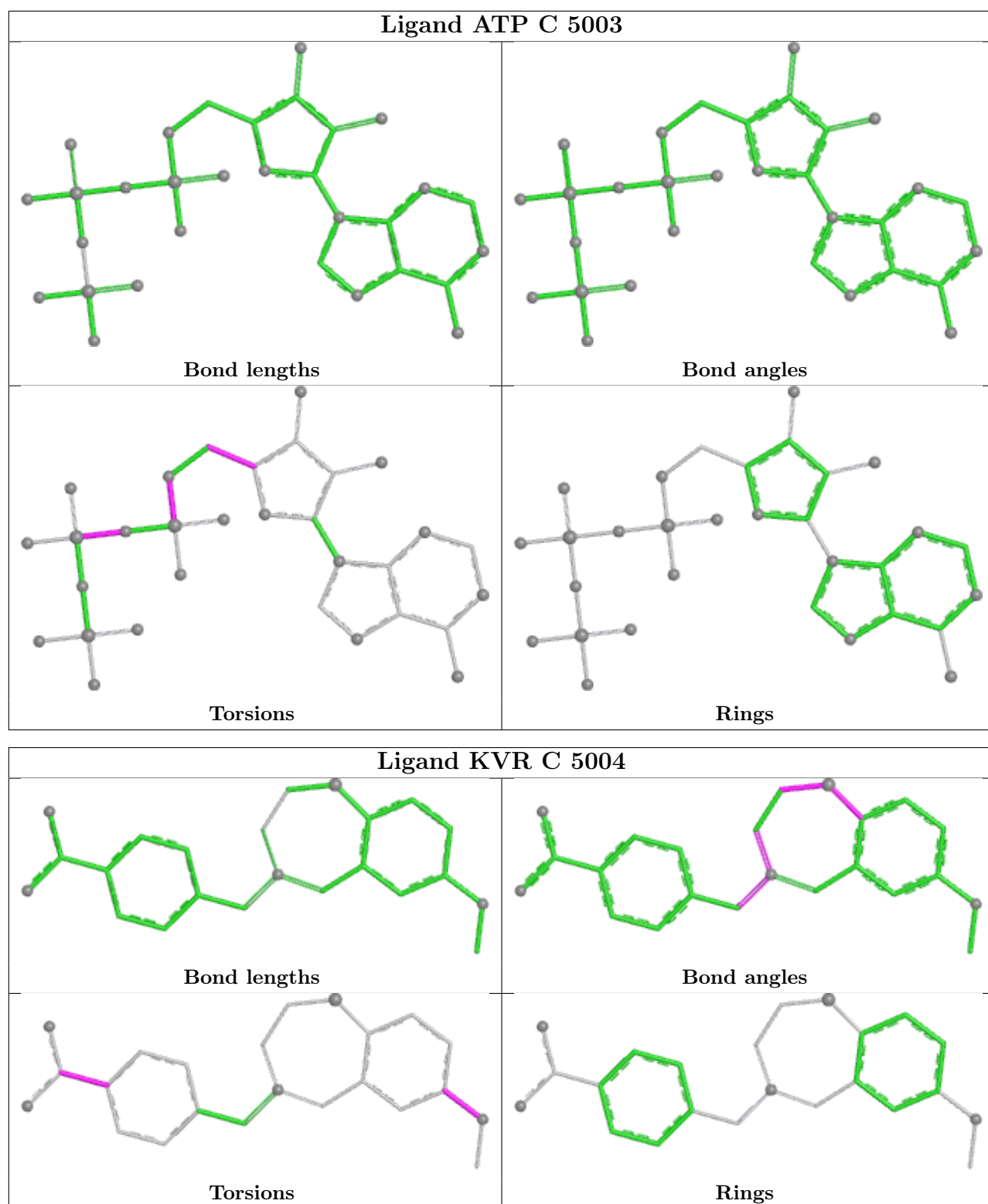
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

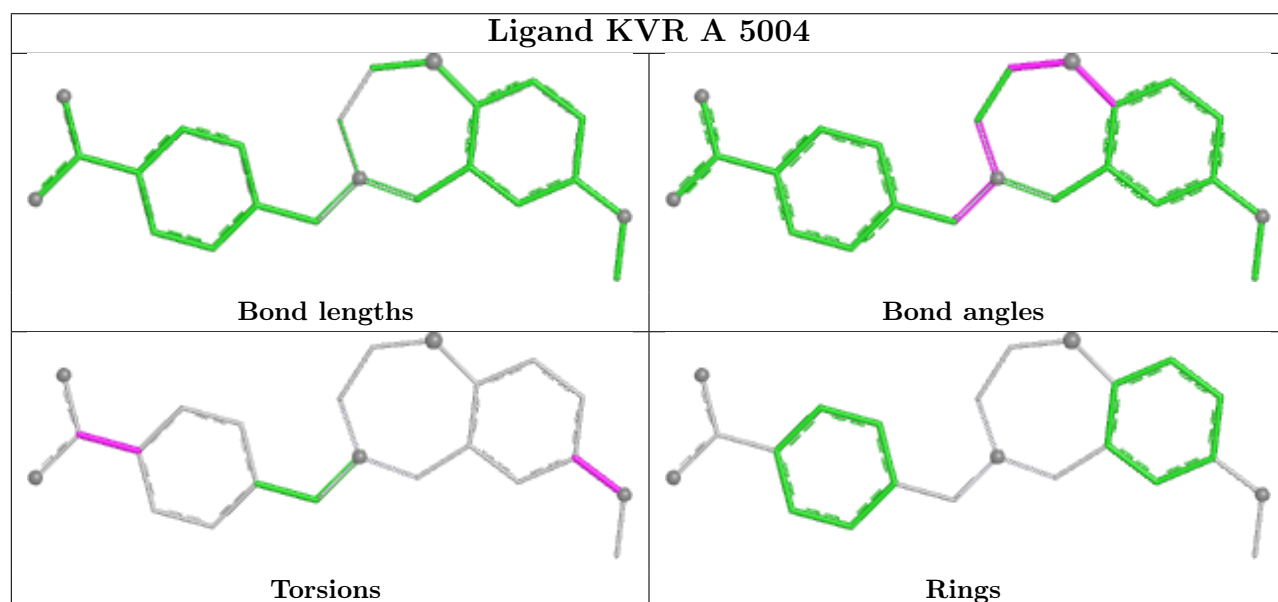
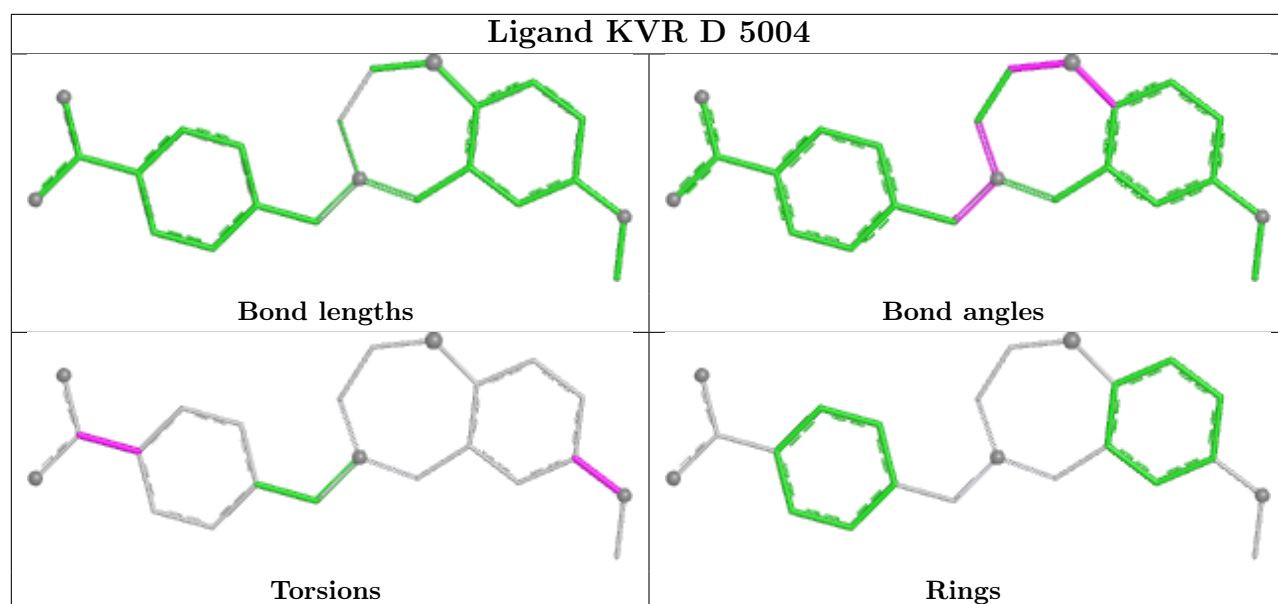
Ligand KVR B 5004

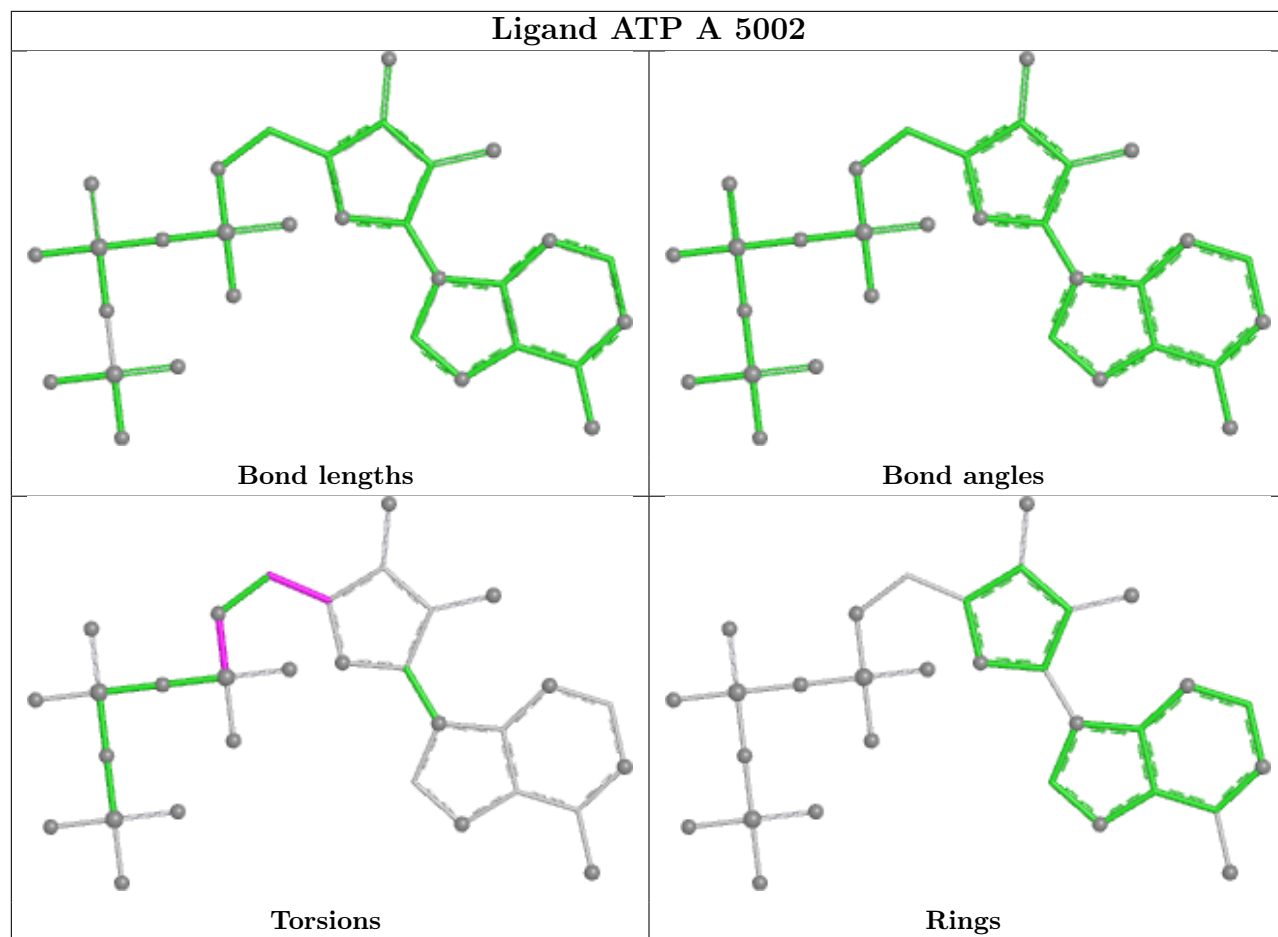


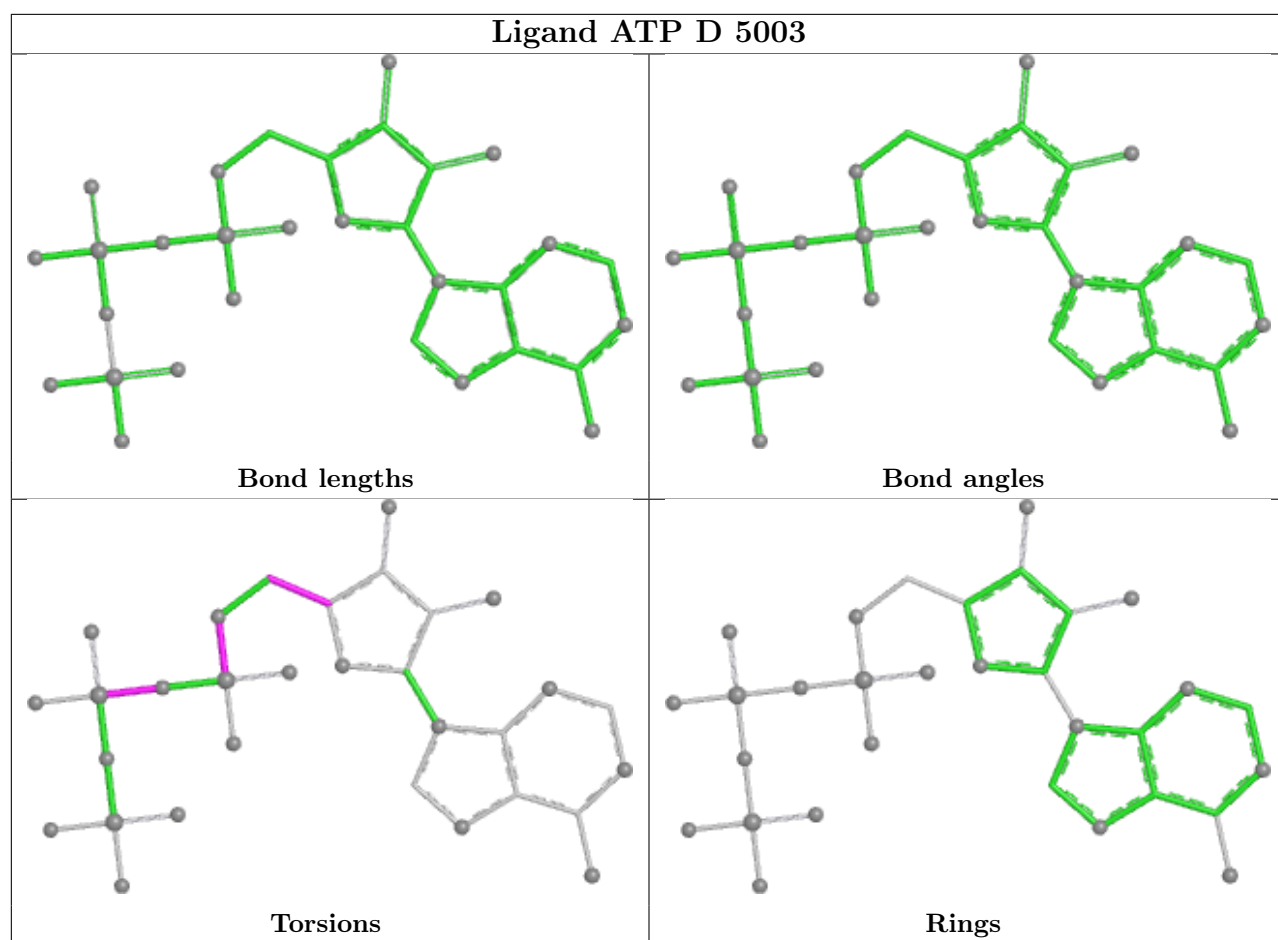
Ligand ATP A 5003

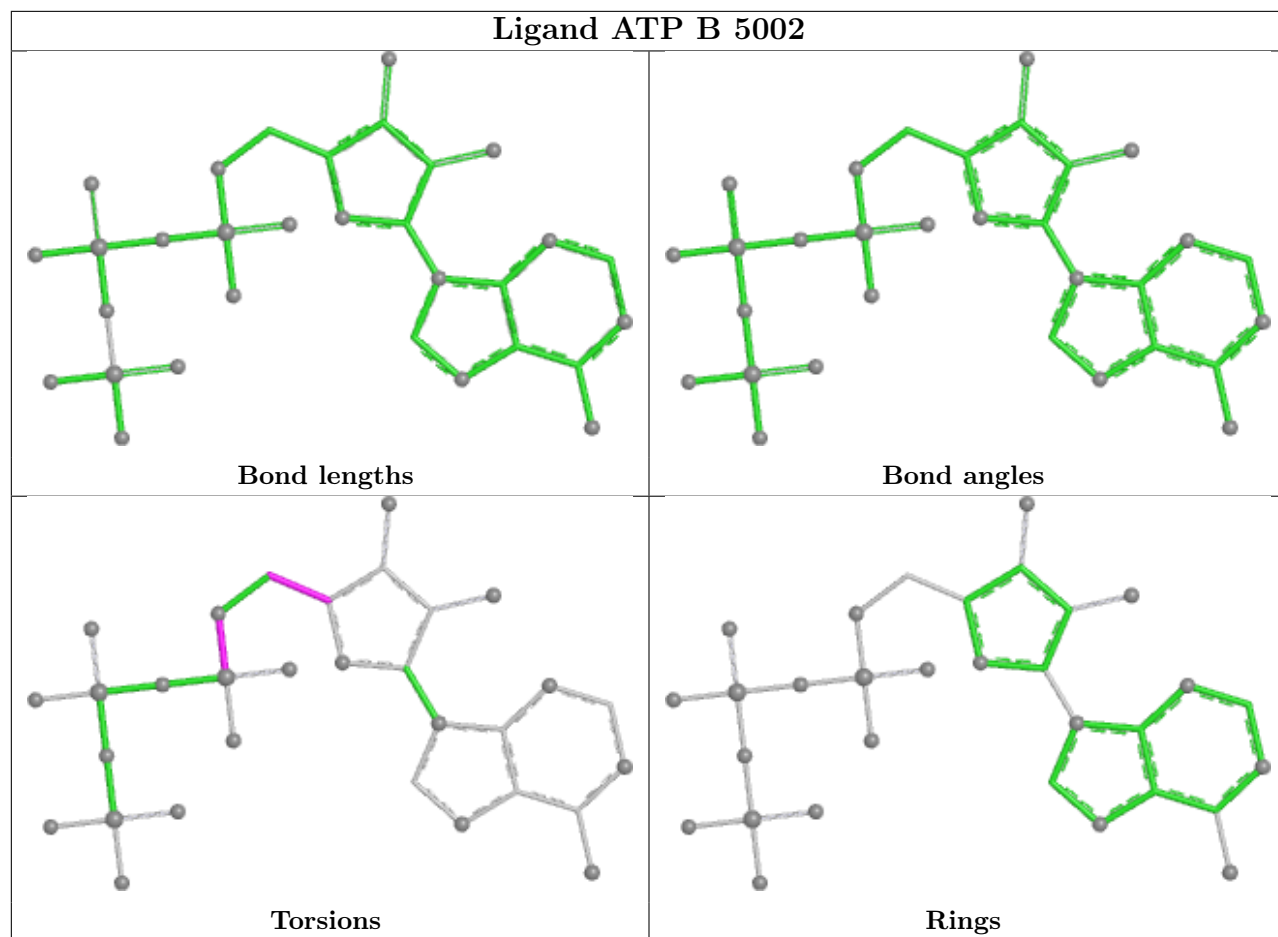


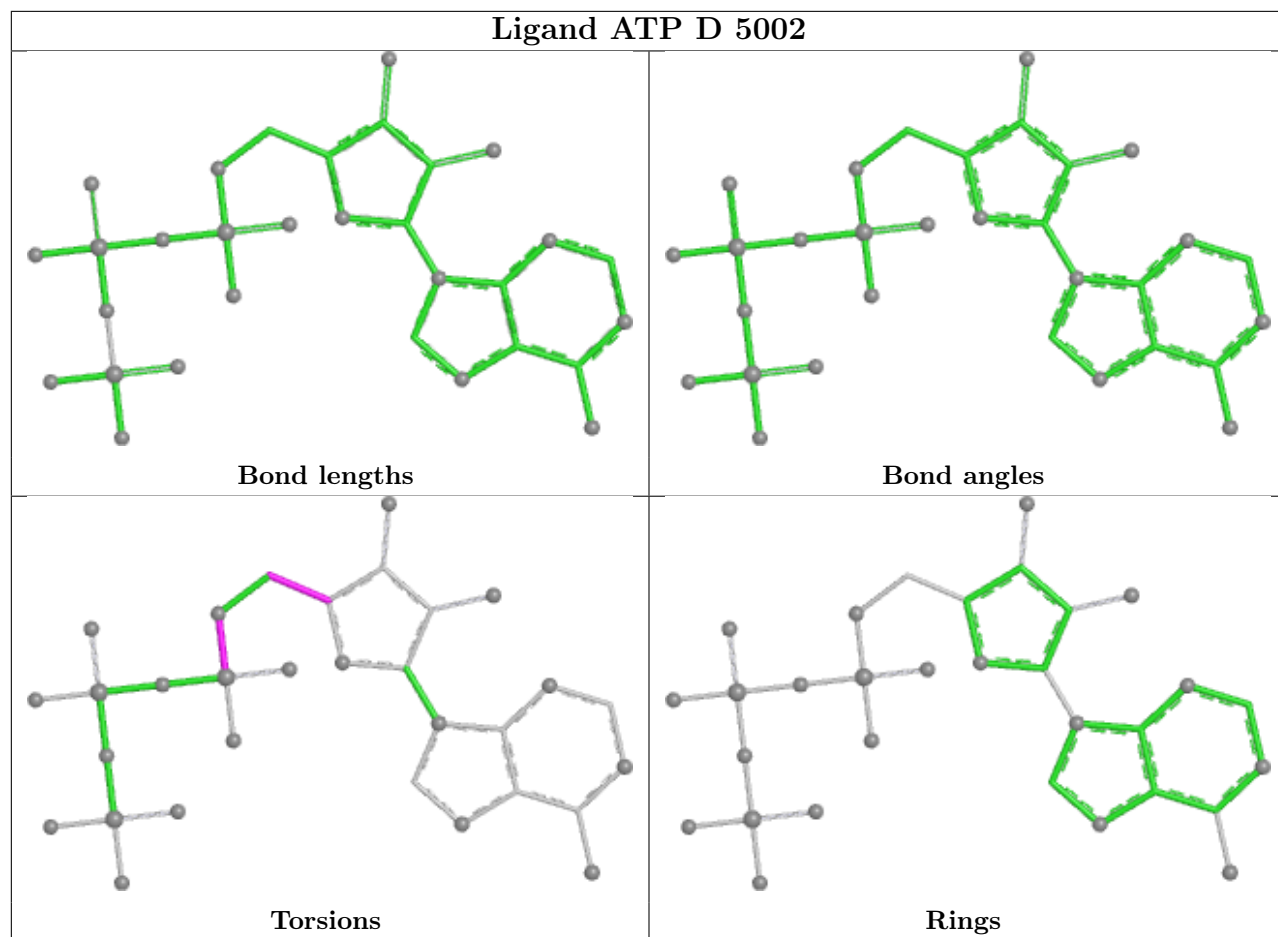


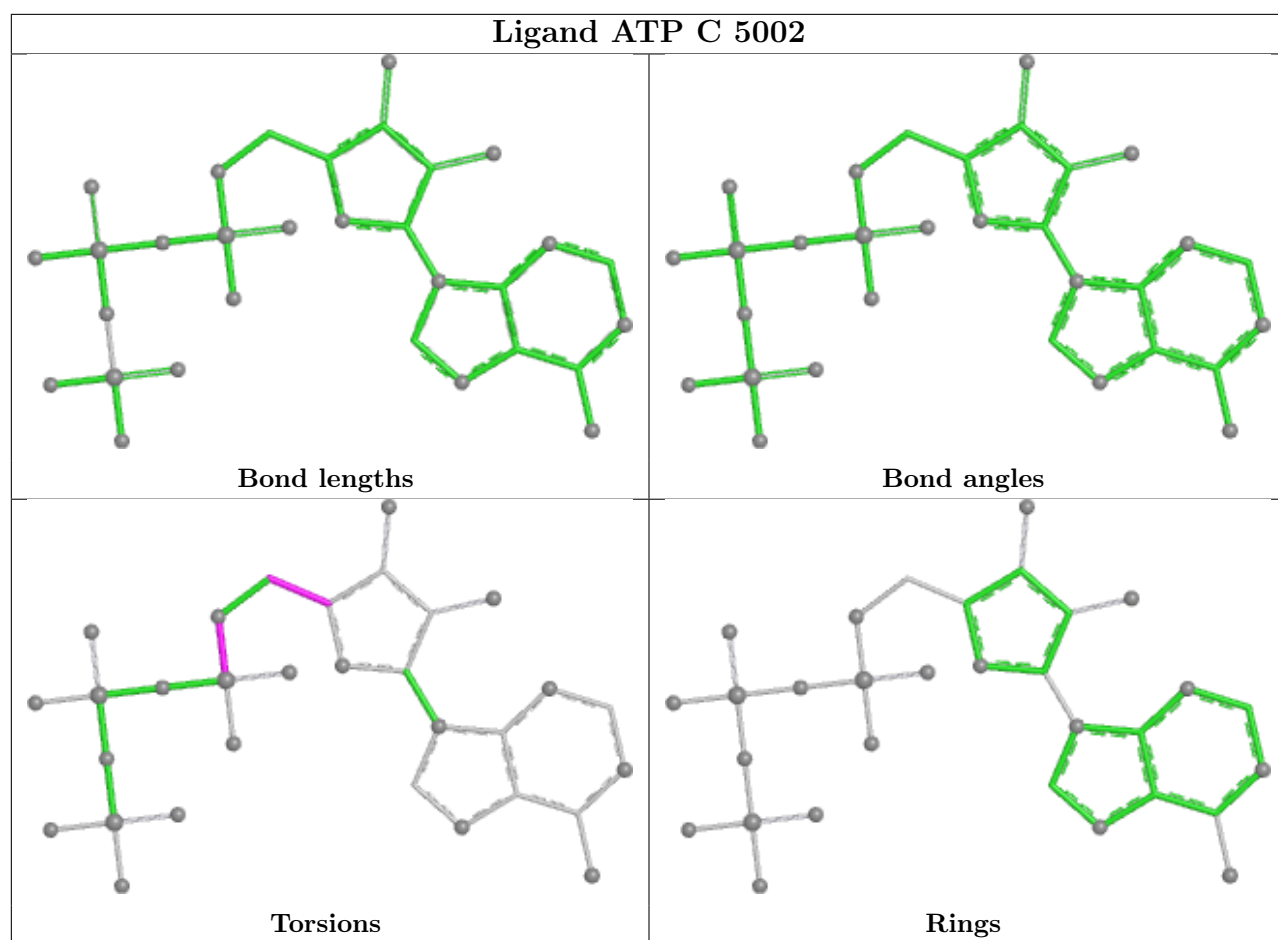


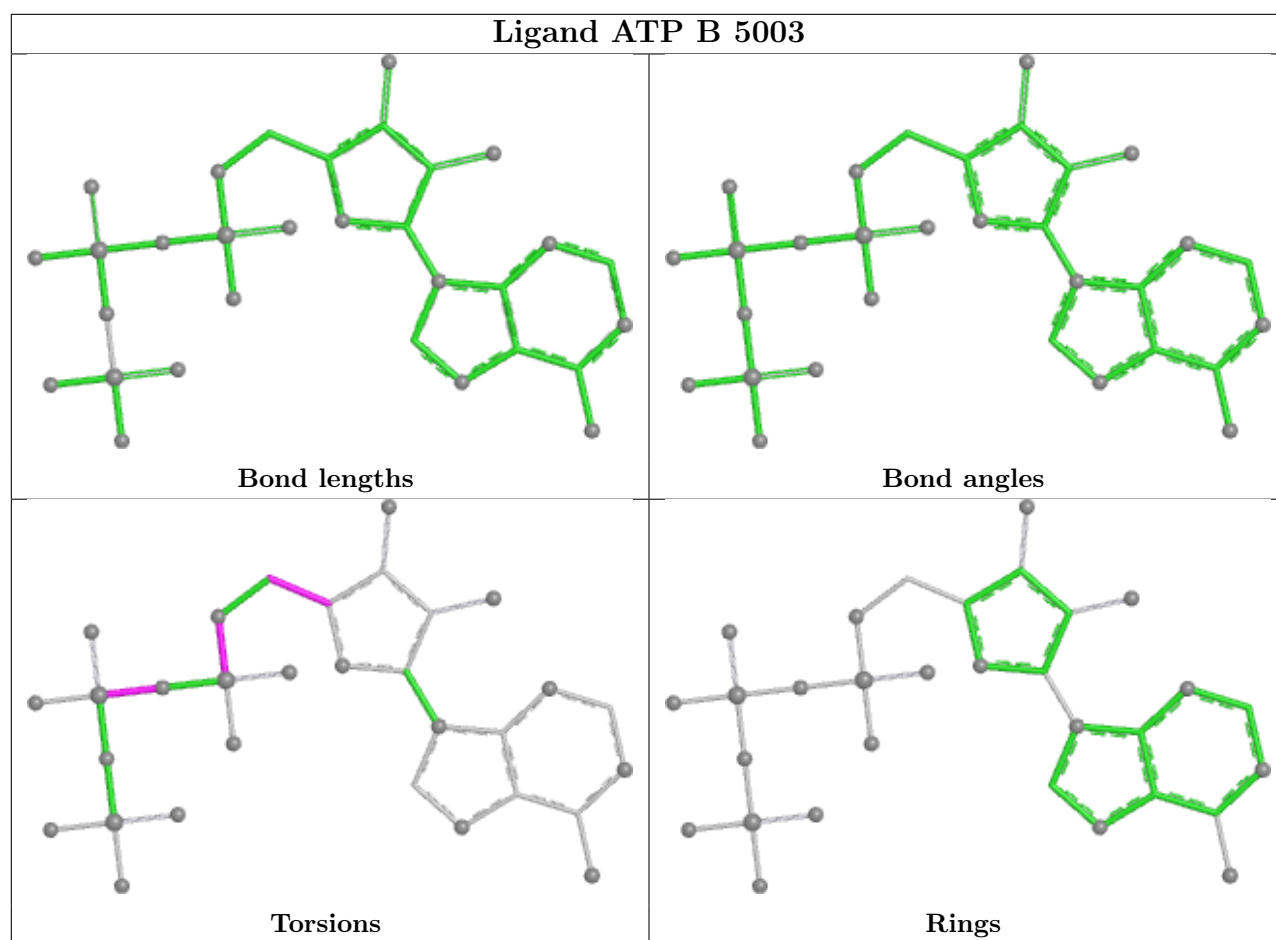












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

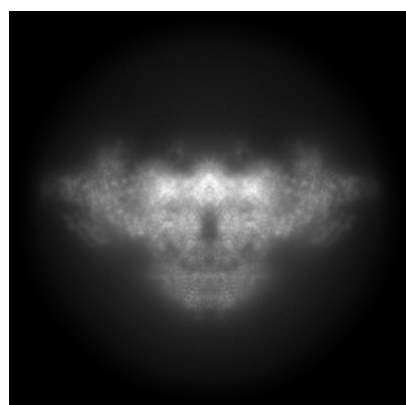
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-42761. These allow visual inspection of the internal detail of the map and identification of artifacts.

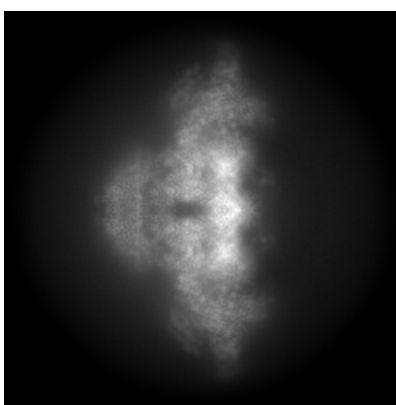
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

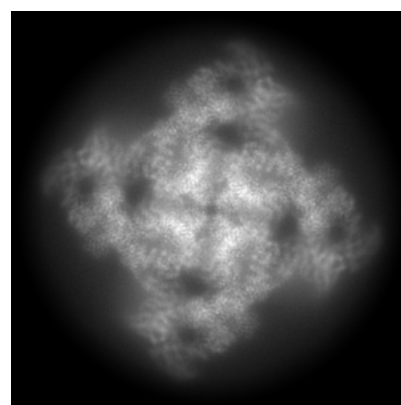
6.1.1 Primary map



X



Y

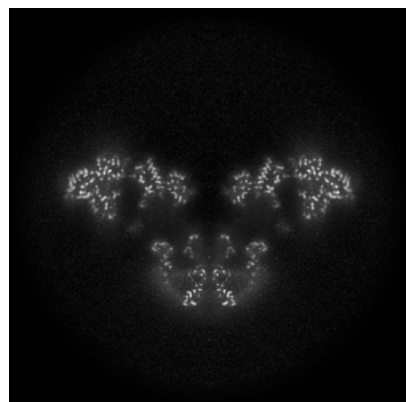


Z

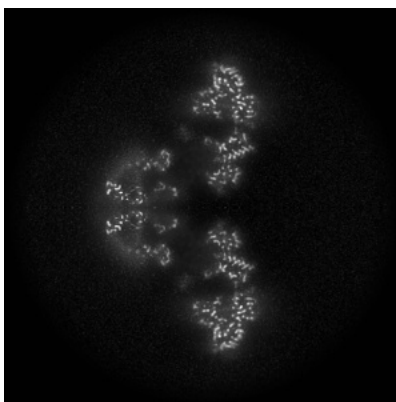
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

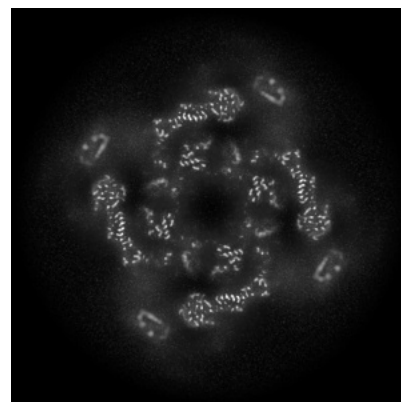
6.2.1 Primary map



X Index: 256



Y Index: 256

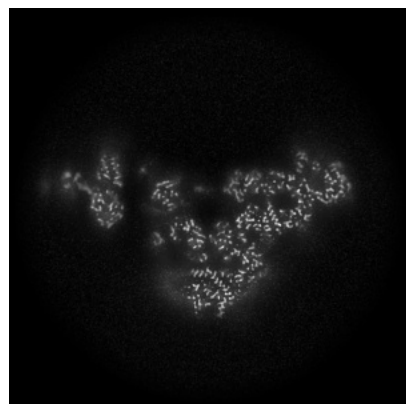


Z Index: 256

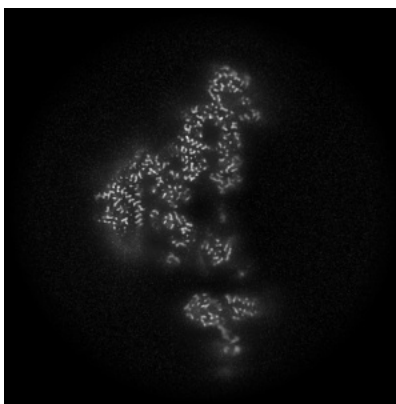
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

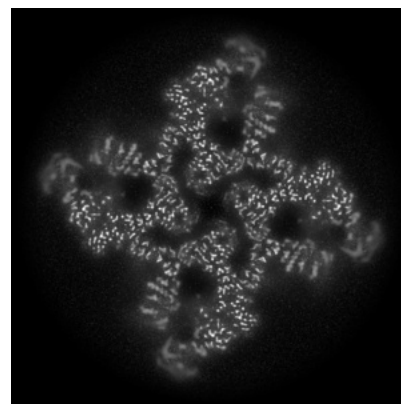
6.3.1 Primary map



X Index: 238



Y Index: 274



Z Index: 282

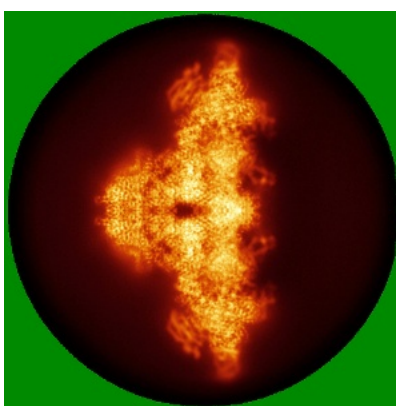
The images above show the largest variance slices of the map in three orthogonal directions.

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

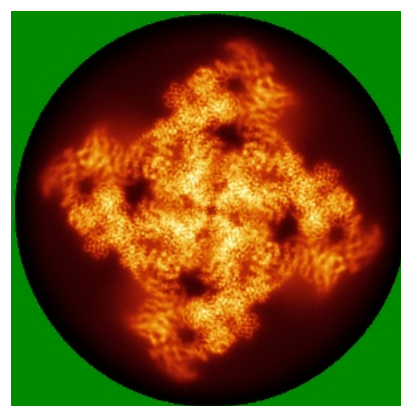
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

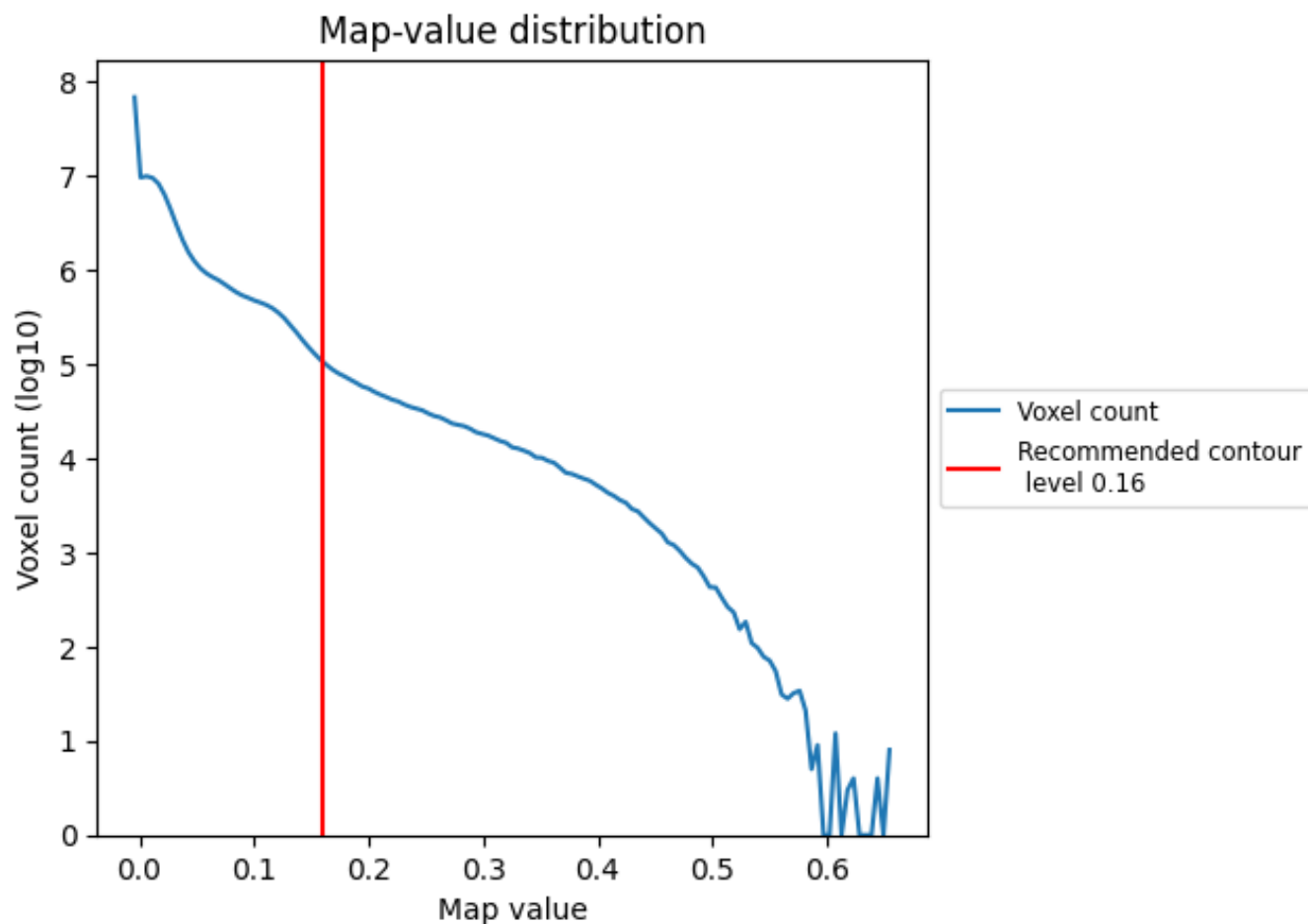
6.6 Mask visualisation

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

7 Map analysis [i](#)

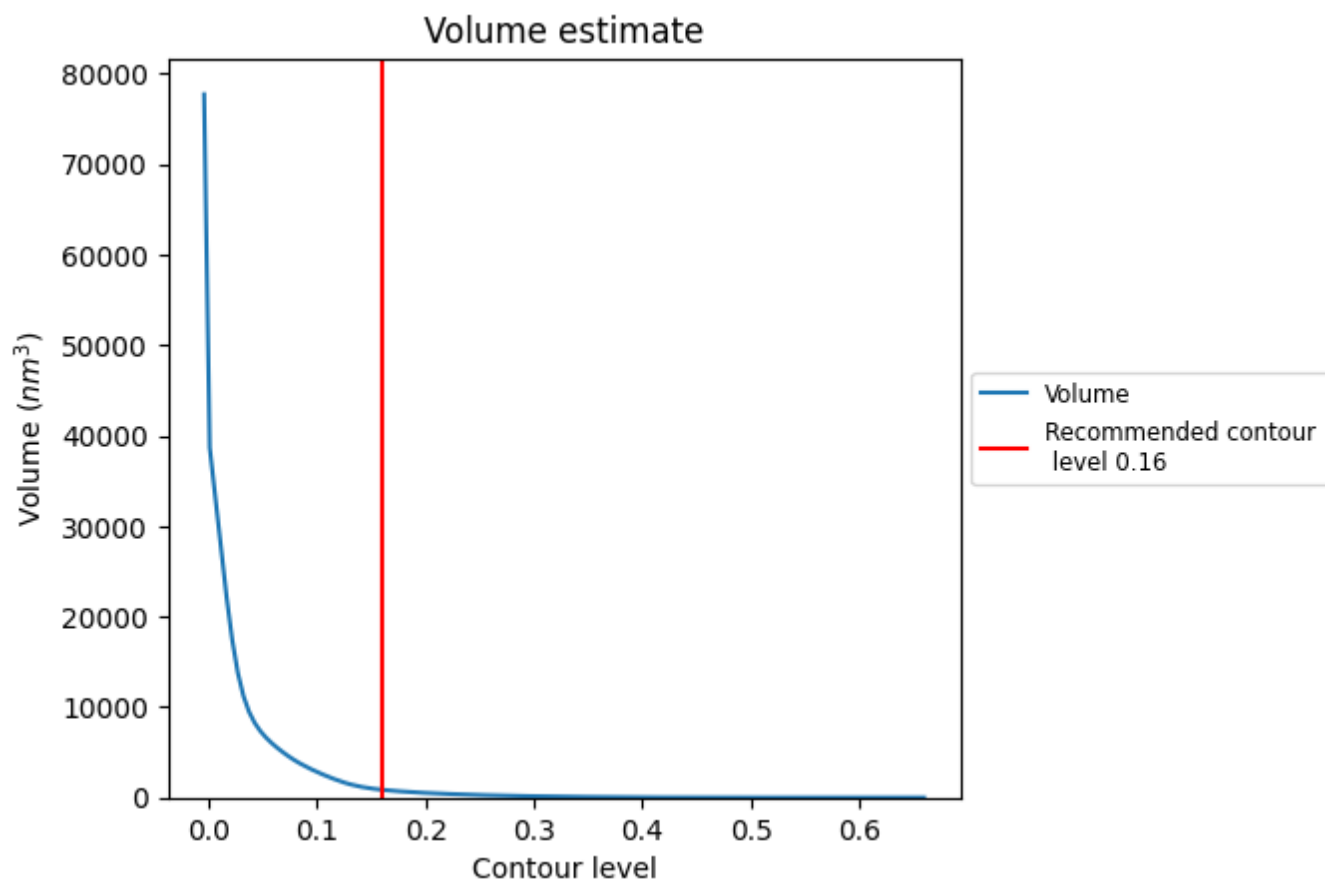
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

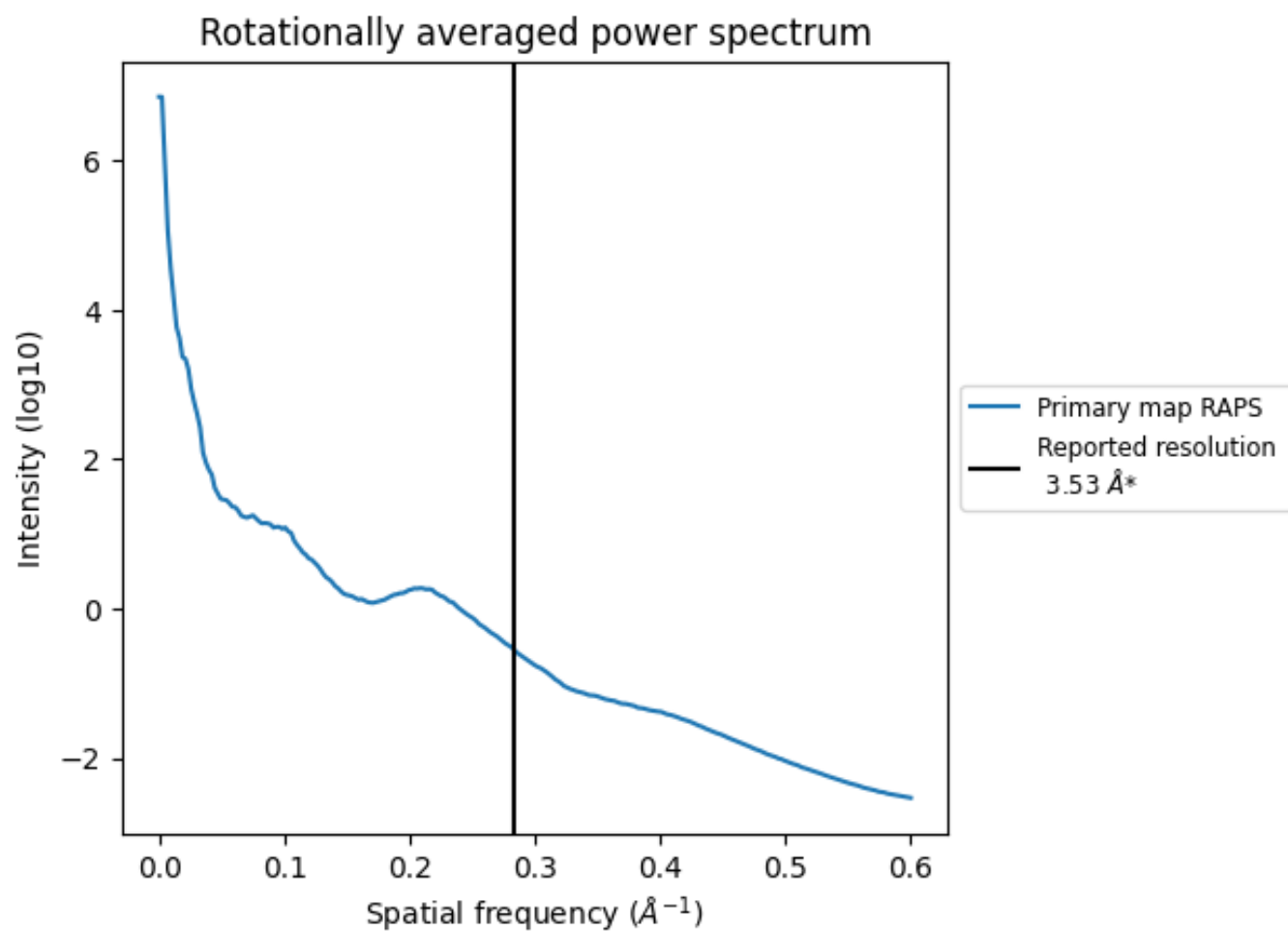
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 858 nm^3 ; this corresponds to an approximate mass of 775 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.283 Å⁻¹

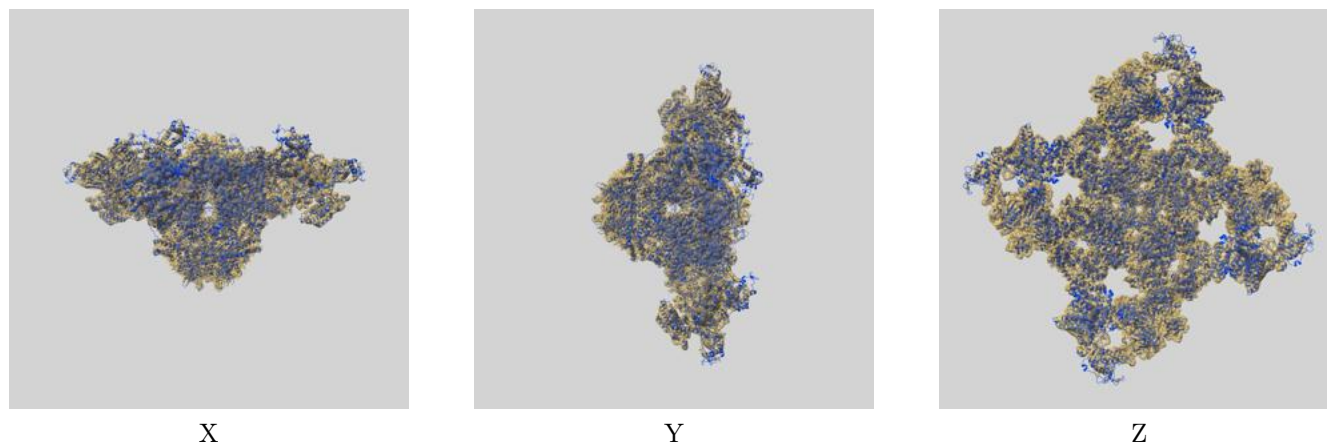
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

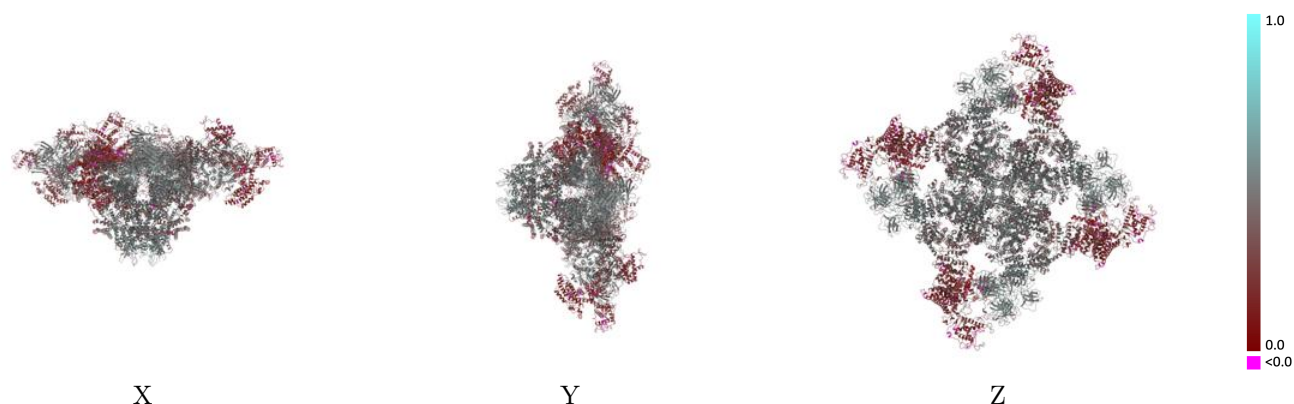
This section contains information regarding the fit between EMDB map EMD-42761 and PDB model 8UXE. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



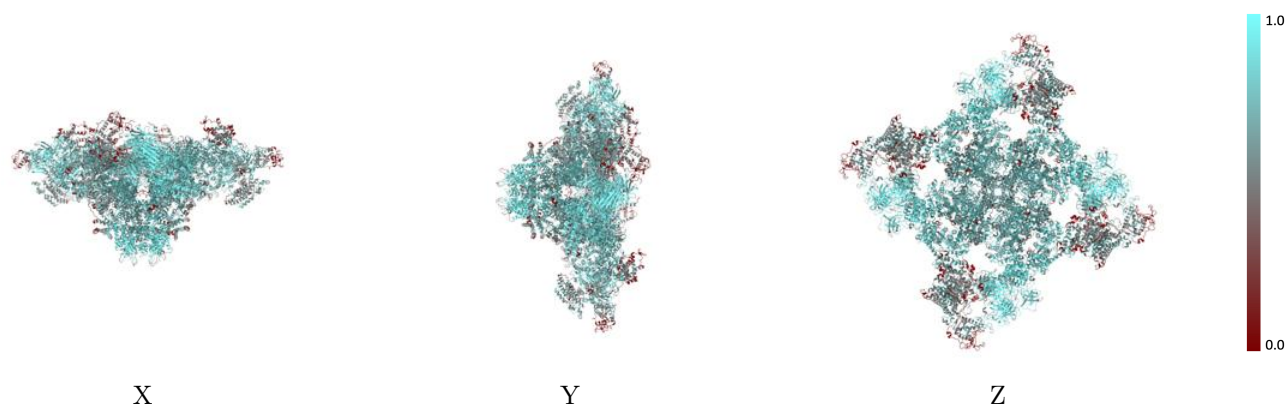
The images above show the 3D surface view of the map at the recommended contour level 0.16 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



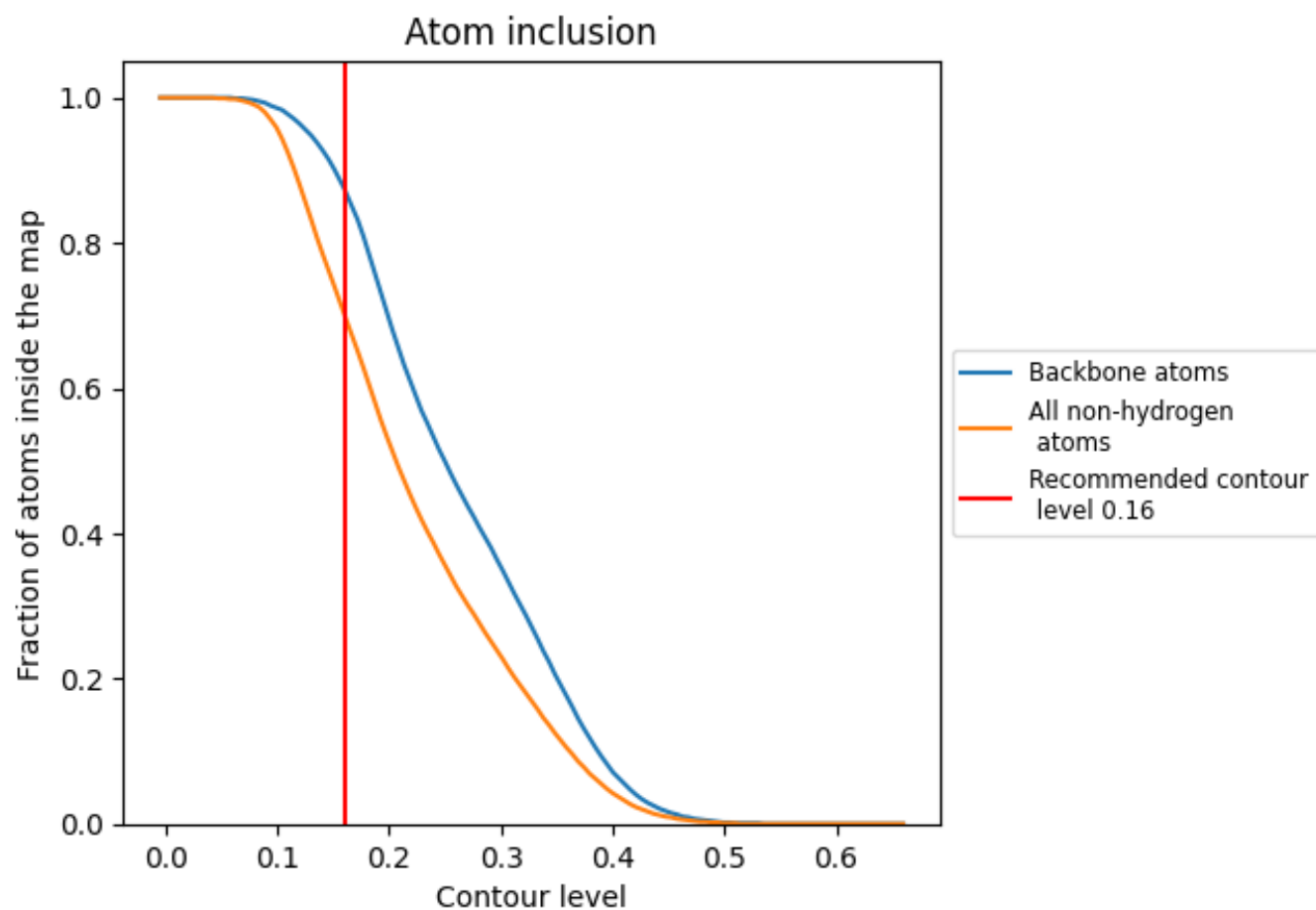
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.16).

9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 70% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.16) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7020	0.3910
A	0.6990	0.3870
B	0.7000	0.3900
C	0.7000	0.3900
D	0.7000	0.3900
E	0.8190	0.4810
F	0.8090	0.4800
G	0.8180	0.4790
H	0.8230	0.4800

1.0

0.0

<0.0