



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 10:12 AM UTC

PDB ID : 8RRV / pdb_00008rrv
EMDB ID : EMD-19466
Title : Structure of RyR1 in detergent in close state in complex with FKBP and Nb9657.
Authors : Li, C.; Efremov, R.G.
Deposited on : 2024-01-23
Resolution : 3.20 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

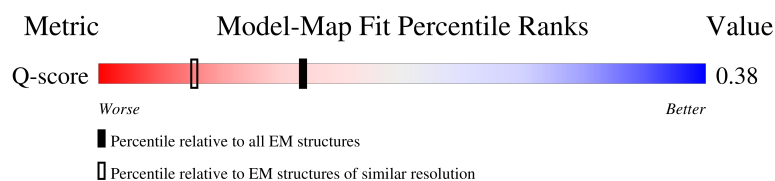
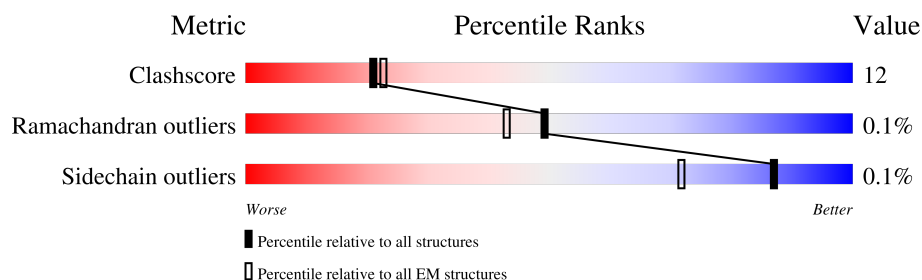
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 3.20 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.



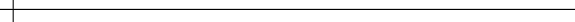
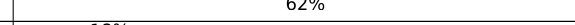
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	15020 (2.70 - 3.70)

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	B	5037	
1	E	5037	
1	G	5037	
1	J	5037	

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Mol	Chain	Length	Quality of chain
2	A	107	 77% 23%
2	D	107	 77% 23%
2	H	107	 75% 25%
2	I	107	 75% 25%
3	C	137	 18% 62% 30% 8%
3	F	137	 18% 64% 28% 8%
3	K	137	 18% 63% 29% 8%
3	M	137	 17% 64% 28% 8%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 142968 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	4290	Total	C	N	O	S	1	0
			33956	21639	5852	6236	229		
1	E	4290	Total	C	N	O	S	1	0
			33956	21639	5852	6236	229		
1	G	4290	Total	C	N	O	S	1	0
			33956	21639	5852	6236	229		
1	J	4290	Total	C	N	O	S	1	0
			33956	21639	5852	6236	229		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	3221	SER	THR	conflict	UNP P11716
E	3221	SER	THR	conflict	UNP P11716
G	3221	SER	THR	conflict	UNP P11716
J	3221	SER	THR	conflict	UNP P11716

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	D	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	I	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	100	ASP	GLY	conflict	UNP Q8HYX6

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Chain	Residue	Modelled	Actual	Comment	Reference
D	100	ASP	GLY	conflict	UNP Q8HYX6
H	100	ASP	GLY	conflict	UNP Q8HYX6
I	100	ASP	GLY	conflict	UNP Q8HYX6

- Molecule 3 is a protein called nanobody9657.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	126	Total 967	C 597	N 170	O 195	S 5	0	0
3	F	126	Total 967	C 597	N 170	O 195	S 5	0	0
3	K	126	Total 967	C 597	N 170	O 195	S 5	0	0
3	M	126	Total 967	C 597	N 170	O 195	S 5	0	0

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total 1	Zn 1	0
4	E	1	Total 1	Zn 1	0
4	G	1	Total 1	Zn 1	0
4	J	1	Total 1	Zn 1	0





PRO	S962	B976	L486	S344	C230	A106	MET
SER	N963	N877	V487	L345	L231	A106	GLY
GLN	G964	H879	I491	L355	V245	R110	ASP
VAL	Y965	B880	R728	L355	Y246	R115	GLY
GLU	L972	L881	V730	T358	Y247	R115	GLU
		N882	R493	Y359	E248	M127	GLY
R1076	R976	A883	T489	K365	G249	K130	GLU
K1079	P979	L884	P733	L369	G250	K130	ASP
S1080	A980	R885	H502	L369	A251	F133	GLU
Y1081	Y1081	R886	Q734	L369	V252	F133	V11
		R887	Q735	V371	H255	Q138	
Y1089	T982	W891	S745	L372	E510	Q138	L14
	T983		G746	L372	E510	Q138	R15
A1094	L984	R897	C747	K373	W260	Q138	T16
V1095	V985	L897	L748	K374	R266	D140	
	R987	K901	D749	K375	R266	A153	V20
M1100	L988	R902	L750	A376	S272	K162	L22
R1101		L903	S756	I377	H273	K162	Q23
	H993	H904	F757	L378	L274	I170	C24
R1110	W996	P905	R758	H379	L275	L171	A26
D1112		N909	C762	G382	Q278	V172	L4943
	D999	F910	Q765	D385	R283	S173	Y4630
L1115	Q1011	H911	Q765	D386	R283	S176	L4652
V1123	D1012	L913	V781	A387	Y290	E177	L4652
F1124	F1124	N921	L792	L388	G298	L189	Y4653
M1125	A1015	E917	G794	F389	L291	D192	A4654
		R918	F802	L390	A292	A193	F4655
W1132	R1020	R919	L626	Q399	L293	M196	L4656
S1136	V1022	Y920	L633	M403	T294	M196	C4657
M1152	Y1024	N924	I638	A104	Q297	W200	L4658
	R1025	S925	R652	Y411	L299	M201	L4659
M1170	L1026	G926	R652	L418	L308	M202	C4663
E1176	L1027	E927	L633	L418	T312	C208	Y4666
R1180	K1032	T928	K424	K424	L323	E210	I4670
E1181	R1036	L929	P425	R426	ASP	Y213	E4674
	D1037	K930	R426	L436	THR	Y215	K4675
L1189	Q1041	L932	L436	L436	ALA	Y215	E4676
P1190	A1042	L933	T657	P425	THR	Y215	GLY
V1191	R1043	A934	Y451	Y451	ALA	C208	GLU
L1194	R1044	L935	K661	K661	LYS	E210	ASP
	T1045	G936	P864	P864	ARG	Y213	MET
V1199	L1046	C937	Y663	E462	ASP	Y213	GLY
		H938	F664	S470	VAL	T215	ALA
P1225	Y1049	V939	E665	N473	GLY	T215	GLY
	I1053	G940	L675	R474	MET	L222	SER
I1228	I1053	N941	T676	R474	GLY	F223	GLN
M1230	P1056	L955	V684	L477	PRO	H224	GLY
P1249	ASP	Y959	E480	E480	E338	M227	GLY
	GLN	N960	E481	E481	L339	D228	H98
	GLU		L711	L711	K340	E229	R99

● Molecule 1: Ryanodine receptor 1





ALA	Q4209	T4104	F3996	GLY	D3717	Q3608	A3526	E3454	R3364	V3284	A3200	S3100	Y3016	LEU
ARG	K4214	E4107	A3997	THR	Y3722	P3612	D3529	E3455	L3365	W3285	M3201	M3106	F3017	LYS
LEU	M4000	I4108	M4001	ILE	E3740	TYR	Q3530	Q3456	R3366	R3287	P3202	K3106	L3018	ASP
SER	K4230	Q4109	K4002	ASN	E3740	LYS	M3534	R3458	K3367	E3290	F3205	L3110	H3030	GLU
THR	M4231	F4110		GLY	GLY	SER	K3533	V3459	R3368	A3291	A3204	R3111	K3034	ASP
ARG	V4235	L4111	S4008	GLU	GLU	LYS	M3534		A3369	P3292	L3206	LEU	K3036	THR
LEU	E4253	S4115	D4022	ALA	ALA	ALA	K3537	T3464	V3372	P3293	E3207	GLY	E3035	SER
ARG	PRO	E4116	M4023	THR	GLU	TRP	T3538	N3466	E3376	P3294	P3208	LYS	S2950	ARG
ARG	GLY	A4117		GLY	GLY	HIS	R3539	N3467	E3376	P3294	Q3209	VAL	M3038	ARG
VAL	GLY	D4118	M4026	ASN	E3747	LYS	Y3540	S3468	L3381	L3296	L3210	ALA	I3039	VAL
ARG	GLY	E4119	L4027	GLU		LEU	A3541	F3469	GLU	A3300	Y3219	ARG	T3040	ARG
ARG	PRO	N4120	L4028	GLU		LEU	L3542	T3471	LYS	P3301	K3222	THR	S3041	ARG
LEU	GLY	E4121	L4028	LYS	ARG	LYS	K3543	S3474	ALA	A3306	S3223	GLN	F3043	ARG
ARG	ALA	N4122	E4032	GLN	ARG	GLN	D3544		ALA	V3307	E3226	VAL	L3046	LYS
ASP	ASP	I4123	D4046	ARG	ARG	ARG	T3545	SER	GLU	R3227	A3228	GLY	A3047	GLY
GLY	ASP	F4125		THR	THR	ARG	D3546	LYS	GLU	G3229	G3231	VAL	A3048	VAL
THR	GLY	R4131	E4056	THR	M3758	ARG	E3547	MET	GLU	D3310	L3232	GLY	V3050	THR
ALA	GLY	F4132	M4057	ALA	K3760	VAL	V3549	ALA	GLY	L3312	G3231	GLY	R3051	ALA
GLY	MET	D4133	I4058	ALA	Q3761	VAL	R3550	LYS	E3391	N3313	L3232	GLY	H3052	ALA
ALA	GLY	E4134	E3945	ALA	R3762	VAL	E3551	GLY	R3395	S3314	P3233	GLY	R3053	ALA
ALA	GLY	F4135	E3946	CYS	L3763	ALA	F3552	ASP		L3315	K3234	L3137	V3054	ALA
THR	ALA	P4136	I4058	PHE	L3764	PHE	L3553	ALA	F3398	N3318	S3235	P3138	S3055	THR
LEU	ALA	R4137	L4059	ARG	Y3765	ARG	Q3554	GLN	S3399	L3319	G3238	V3139	L3056	LEU
ALA	ALA	E4138	K4060	MET	M3758	MET	N3555	SER	V3400	L3320	M3239	T3141	F3057	ALA
ALA	GLY	K4060	K4060	GLY	Q3769	GLY	E3548	GLY	L3401	R3321	L3249	T3142	D3060	ALA
ALA	GLY	V4145	D4063	GLY	L3770	P3640	H3558	SER	Y3406	L3322	I3243	L3143	A3061	ALA
ALA	ALA	L4146	M4064	GLY	H3771	L3641	L3559	ASP	A3407			F3144	P3062	ALA
LEU	GLY	V4154	F4065	GLY	E3777	N3651	K3562	GLN	L3408	L3327	L3246	Q3145	A3063	ALA
VAL	ALA	D4157	L4068	GLY	L3780	E3655	S3566	ARG	L3411	G3328	L3249	L3147	V3065	ALA
VAL	ALA	K4069	K4069	THR	Q3781	S3656	P3567	THR	V3416	L3329	A3261	Q3149	L3068	ALA
ALA	GLY	D4070	D4070	LYS	M3782	S3656	S3568	LYS	D3417	D3330	R3262	H3150	H3069	ALA
ALA	GLY	I4071	I4072	LYS			L3569	LYS		E3331	Y3263		L3070	ALA
ALA	GLY	E4164	G4073	ARG	N3809	S3678	R3570	ARG	R3420	A3332	T3264	V3163	L3071	ALA
ALA	ALA	L4166	S4074	ARG	V3812	E3687	W3571	ARG		T3333	E3265		A3072	ALA
GLY	ALA	A4167	F4077	GLY	M3816	E3688	Y3576	GLY	P3427	V3334	M3266	R3167	R3073	ALA
ALA	THR			THR				ASP		K3335	P3267	T3168	S3074	ALA
ALA	VAL	L4178	D4083	GLY	A3834	E3691	L3579	ARG	F3435	R3337	H3268	L3169	L3075	ALA
ALA	ALA	P4084	P4084	ALA		E3692	P3580	ARG	R3436	L3337	V3269	G3176	D3076	ALA
ALA	ALA	R4085	R4085	ALA	T3838	K3694	M3437	ARG		L3338	I3270		A3077	ALA
ALA	GLY	M4184	G4086	ALA		P3695		GLY		A3339	E3271		A3072	ALA
ALA	ALA			ALA	L3842	D3696	I3592	GLY	I3441	V3340	L3271	K3179	L3002	ALA
ALA	THR	R4188	I4087	ALA	L3844	H3704	R3595	GLY	F3442		T3273		T3079	ALA
ALA	ALA	L4190	S4089	ALA			V3596	THR	L3443	L3509	L3274	V3183	V3080	ALA
LEU	ARG	K4090	K4090	ARG	Q3850		Q3597	L3509	Y3444	P3351	P3275		M3081	ALA
LEU	LEU	V4194	K4091	ALA		T3708	S3600	L3510	W3445	E3352	M3276	R3187	K3082	ALA
LEU	ALA	F4195	D4092	ALA	Q3850	L3710	A3601	L3514	S3446	L3353	L3277		V3088	ALA
ALA	ALA	E4196	F4093	ALA			L3515	L3515	K3447	L3354	G3278	C3193	Y3009	ALA
GLY	ALA	Q4094	Q4094	THR	V3858	K3713	V3602	K3516	N3450	S3279	S3279	L3194	F3010	ALA
SER	ALA	A4095	K4095	GLY	VAL	K3714	L3603	K3517	F3451	F3358	Y3280	A3195	T3011	ALA
LEU	ALA	A4096	A4096	GLY	ASN	S3715	L3604	P3517	K3452	L3518	P3282	R3197	E3097	ALA
PHE	ARG	M4097	M4097	ASP	ASP	L3716	L3606	P3519	R3453	P3360	R3283	L3015	A3099	ALA

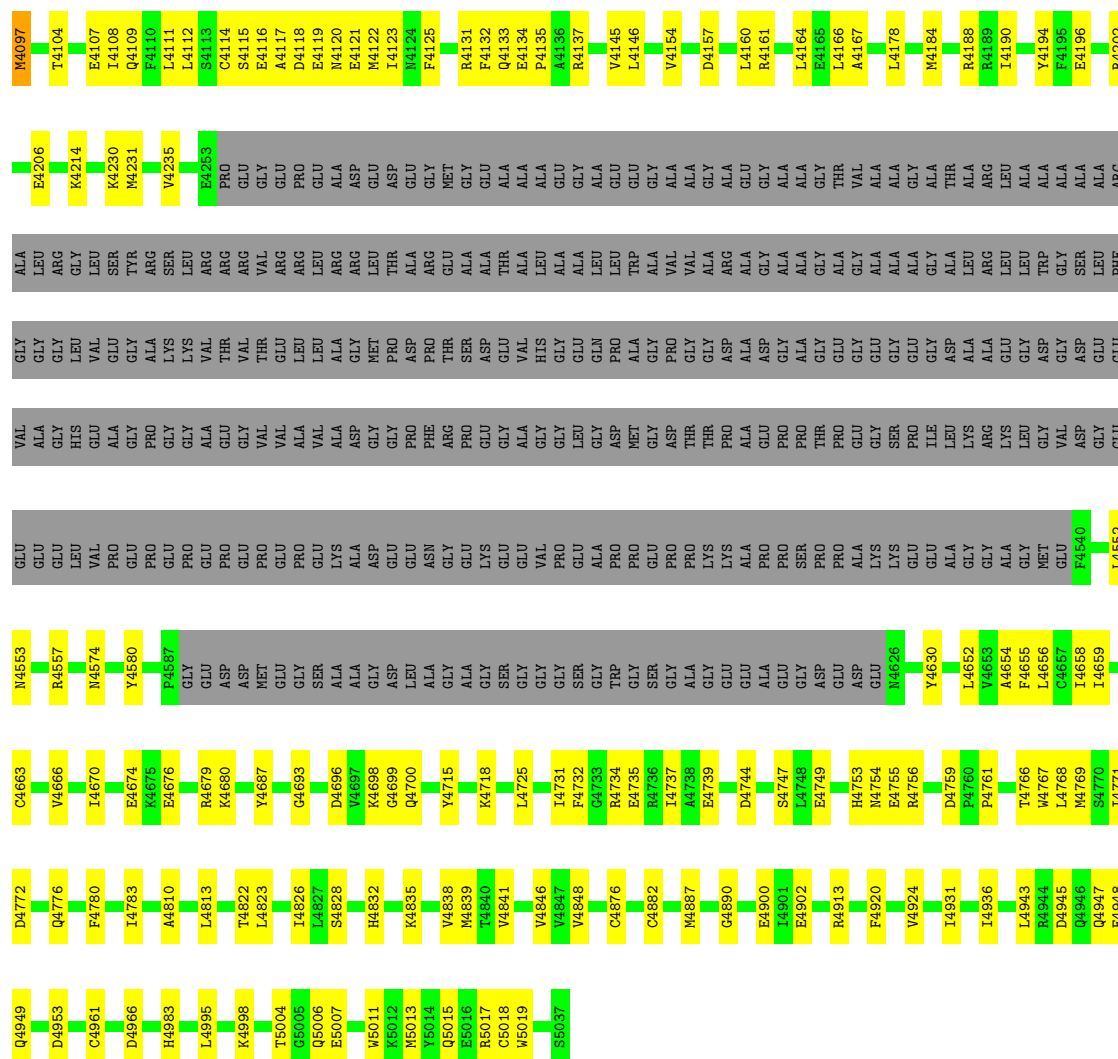




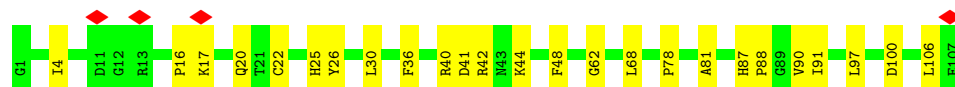
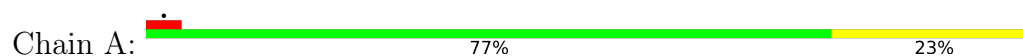


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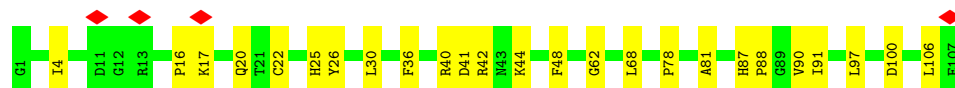
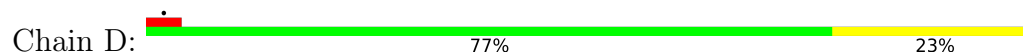
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ASN	GLU	ASP	GLY	THR	VAL	ILE	ASN	ARG	Q3869	N3870	K3873	V3874	N3875	D3878	Q3882	E3893	I3916	V3920	Q3927	Y3937	I3943	E3944	E3945	Q3946	K3947	G3947	K3948	R3949	V3779	K3780	Q3781	M3782	N3809	V3812	E3967	K3968	I3969	Q3970	G3971	P3972	L4088	C3973	S3979	L3980	S3983	D3987	A3988																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Q3608	P3612	TYR	LYS	SER	LYS	LYS	ALA	VAL	HIS	LEU	SER	GLN	ARG	ARG	ARG	VAL	VAL	ALA	CYS	PHE	ARG	MET	T3639	P3640	L3641	N3651	E3655	E3656	G3656	S3678	E3687	E3688	E3691	E3692	K3693	K3694	P3695	D3696	H3704	T3708	A3709	L3710	K3713	S3714	L3715																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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E3453	E3454	Q3455	Q3456	N3457	F3458	V3459	T3464	N3465	N3466	N3467	F3468	L3470	T3471	S3474	LYS	SER	LYS	MET	ALA	GLU	GLU	GLY	E3391	R3395	F3398	S3399	V3400	L3401	Y3406	A3407	L3408	L3411	V3416	D3417	E3431	A3432	T3433	W3434	K3435	R3436	M3437	T3441	F3442	Y3444	W3445	S3446	K3447	N3450	F3451	K3452																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
R3283	W3284	W3285	E3286	R3287	E3290	A3291	P3292	P3293	P3294	A3295	L3296	A3300	P3301	A3306	V3307	D3310	H3311	L3312	N3313	S3314	L3315	N3318	I3319	L3320	L3321	I3322	N3325	N3326	L3327	G3328	I3329	V3416	D3417	E3431	A3432	T3433	W3434	K3435	R3436	M3437	T3441	F3442	Y3444	W3445	S3446	K3447	N3450	F3451	K3452																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
P3360	R3361	R3362	R3363	R3364	R3365	R3366	R3367	R3368	R3369	V3372	E3376	L3381	ALA	LYS	ALA	GLU	GLY	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY



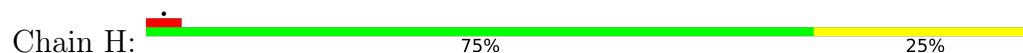
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

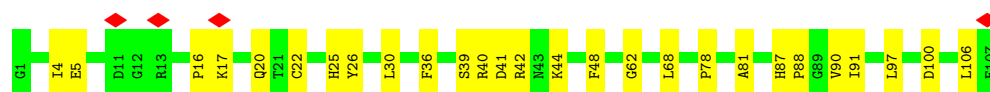


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

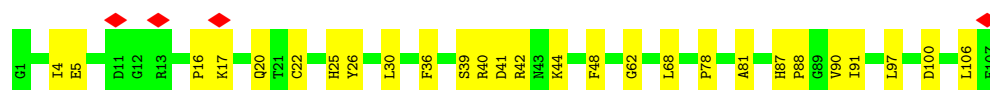
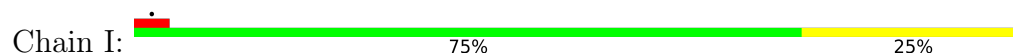


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

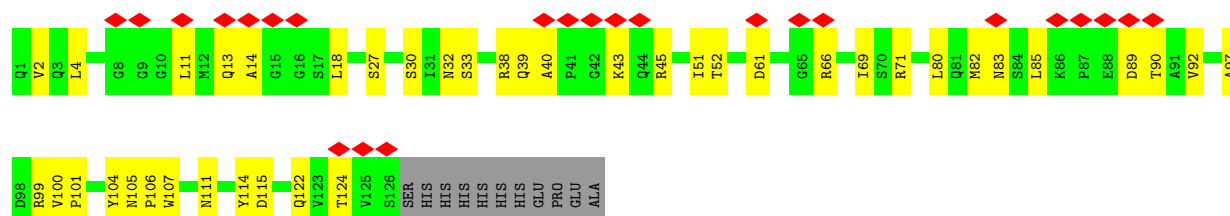




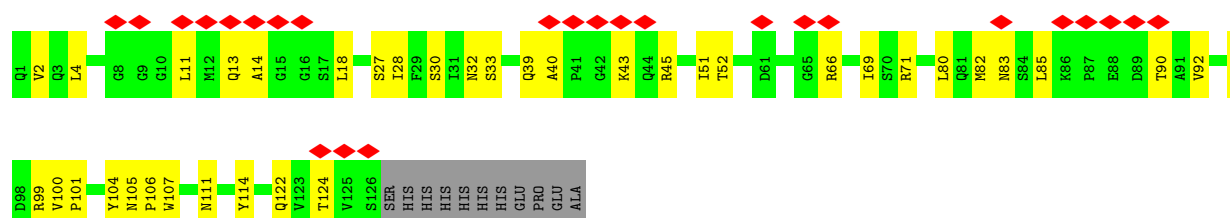
- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B



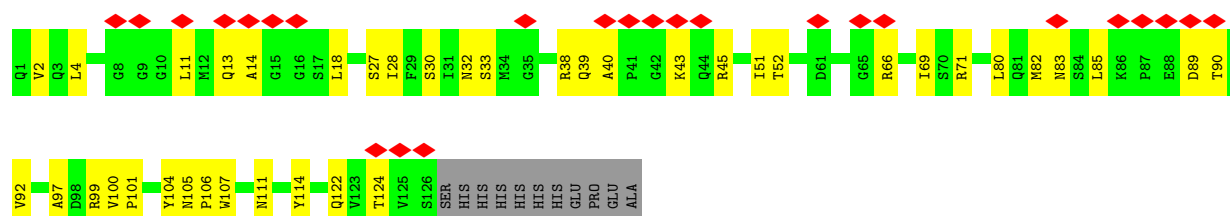
- Molecule 3: nanobody9657



- Molecule 3: nanobody9657

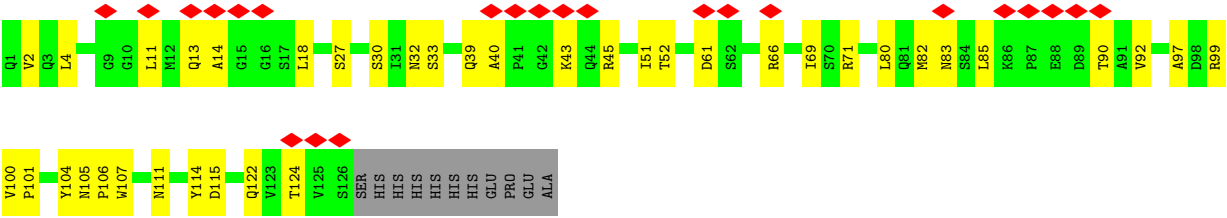


- Molecule 3: nanobody9657



- Molecule 3: nanobody9657





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	171023	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	6.350	Depositor
Minimum map value	-0.105	Depositor
Average map value	0.076	Depositor
Map value standard deviation	0.164	Depositor
Recommended contour level	0.35	Depositor
Map size ($\text{\AA}$)	499.96802, 499.96802, 499.96802	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.488, 1.488, 1.488	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

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	B	0.12	0/34727	0.32	2/47063 (0.0%)
1	E	0.13	0/34727	0.32	2/47063 (0.0%)
1	G	0.13	0/34727	0.32	2/47063 (0.0%)
1	J	0.13	0/34727	0.32	2/47063 (0.0%)
2	A	0.10	0/834	0.30	0/1123
2	D	0.10	0/834	0.30	0/1123
2	H	0.10	0/834	0.30	0/1123
2	I	0.10	0/834	0.30	0/1123
3	C	0.16	0/987	0.44	0/1340
3	F	0.15	0/987	0.44	0/1340
3	K	0.15	0/987	0.44	0/1340
3	M	0.15	0/987	0.44	0/1340
All	All	0.13	0/146192	0.32	8/198104 (0.0%)

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1503	PRO	N-CA-CB	6.96	110.19	103.51
1	E	1503	PRO	N-CA-CB	6.96	110.19	103.51
1	G	1503	PRO	N-CA-CB	6.91	110.14	103.51
1	J	1503	PRO	N-CA-CB	6.91	110.14	103.51
1	E	4097	MET	CB-CG-SD	-5.25	96.94	112.70
1	B	4097	MET	CB-CG-SD	-5.25	96.96	112.70
1	G	4097	MET	CB-CG-SD	-5.24	96.99	112.70
1	J	4097	MET	CB-CG-SD	-5.24	96.99	112.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	33956	0	33378	793	0
1	E	33956	0	33378	807	0
1	G	33956	0	33378	788	0
1	J	33956	0	33378	814	0
2	A	818	0	824	17	0
2	D	818	0	824	17	0
2	H	818	0	824	19	0
2	I	818	0	824	19	0
3	C	967	0	916	39	0
3	F	967	0	916	37	0
3	K	967	0	916	38	0
3	M	967	0	916	40	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	J	1	0	0	0	0
All	All	142968	0	140472	3373	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 12.

All (3373) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4961:CYS:SG	1:J:4983:HIS:CE1	2.58	0.97
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	2.58	0.96
1:E:4961:CYS:SG	1:E:4983:HIS:CE1	2.58	0.96
1:G:4961:CYS:SG	1:G:4983:HIS:CE1	2.58	0.95
1:B:870:ILE:HA	1:B:873:LYS:HE2	1.57	0.86
1:B:1520:VAL:HG23	1:B:1527:MET:HG2	1.58	0.86
1:J:870:ILE:HA	1:J:873:LYS:HE2	1.57	0.85
1:E:1520:VAL:HG23	1:E:1527:MET:HG2	1.58	0.84
1:G:870:ILE:HA	1:G:873:LYS:HE2	1.57	0.84
1:E:870:ILE:HA	1:E:873:LYS:HE2	1.57	0.84
1:G:1520:VAL:HG23	1:G:1527:MET:HG2	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1520:VAL:HG23	1:J:1527:MET:HG2	1.58	0.83
1:E:210:GLU:HB3	1:E:213:TYR:HB2	1.61	0.82
1:B:210:GLU:HB3	1:B:213:TYR:HB2	1.61	0.82
1:B:897:ARG:HB2	1:B:905:PRO:HB3	1.62	0.81
1:J:210:GLU:HB3	1:J:213:TYR:HB2	1.61	0.81
1:J:897:ARG:HB2	1:J:905:PRO:HB3	1.62	0.81
1:B:3534:MET:HA	1:B:3537:LYS:HE2	1.63	0.81
1:E:897:ARG:HB2	1:E:905:PRO:HB3	1.62	0.81
1:E:917:GLU:HB2	3:F:104:TYR:HE2	1.46	0.81
1:G:3534:MET:HA	1:G:3537:LYS:HE2	1.63	0.81
1:J:917:GLU:HB2	3:K:104:TYR:HE2	1.45	0.81
1:G:210:GLU:HB3	1:G:213:TYR:HB2	1.61	0.81
1:E:3534:MET:HA	1:E:3537:LYS:HE2	1.63	0.81
1:J:3534:MET:HA	1:J:3537:LYS:HE2	1.63	0.80
1:G:897:ARG:HB2	1:G:905:PRO:HB3	1.62	0.80
1:B:3227:ARG:HB3	1:B:3232:LEU:HB2	1.64	0.79
1:B:917:GLU:HB2	3:C:104:TYR:HE2	1.48	0.79
1:E:3227:ARG:HB3	1:E:3232:LEU:HB2	1.64	0.79
1:G:3227:ARG:HB3	1:G:3232:LEU:HB2	1.64	0.78
1:J:3227:ARG:HB3	1:J:3232:LEU:HB2	1.64	0.78
1:G:981:GLN:HA	1:G:984:LEU:HD12	1.66	0.77
1:E:1422:ASP:HB2	1:E:1427:ILE:HD11	1.67	0.77
1:J:919:ASN:O	1:J:923:GLN:NE2	2.12	0.77
1:J:1422:ASP:HB2	1:J:1427:ILE:HD11	1.67	0.77
1:J:2951:ILE:HD12	1:J:2954:ARG:HD2	1.67	0.77
1:J:981:GLN:HA	1:J:984:LEU:HD12	1.66	0.77
1:B:981:GLN:HA	1:B:984:LEU:HD12	1.66	0.76
1:E:2951:ILE:HD12	1:E:2954:ARG:HD2	1.67	0.76
1:G:917:GLU:HB2	3:M:104:TYR:HE2	1.49	0.76
1:B:2951:ILE:HD12	1:B:2954:ARG:HD2	1.67	0.76
1:B:1422:ASP:HB2	1:B:1427:ILE:HD11	1.67	0.76
1:E:981:GLN:HA	1:E:984:LEU:HD12	1.66	0.75
1:B:919:ASN:O	1:B:923:GLN:NE2	2.12	0.75
1:G:919:ASN:O	1:G:923:GLN:NE2	2.12	0.75
1:G:1422:ASP:HB2	1:G:1427:ILE:HD11	1.67	0.75
1:B:3416:VAL:HB	1:B:3516:LYS:NZ	2.02	0.74
1:E:3416:VAL:HB	1:E:3516:LYS:HZ1	1.52	0.74
1:J:3416:VAL:HB	1:J:3516:LYS:NZ	2.02	0.74
1:E:3416:VAL:HB	1:E:3516:LYS:NZ	2.02	0.74
1:J:4060:LYS:O	1:J:4064:MET:HG2	1.87	0.74
1:B:4060:LYS:O	1:B:4064:MET:HG2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3416:VAL:HB	1:G:3516:LYS:NZ	2.02	0.74
1:E:2998:PHE:HA	1:E:3002:LEU:HD23	1.70	0.74
1:G:4060:LYS:O	1:G:4064:MET:HG2	1.87	0.74
1:J:917:GLU:HB2	3:K:104:TYR:CE2	2.22	0.74
1:B:2998:PHE:HA	1:B:3002:LEU:HD23	1.70	0.74
1:E:3262:ARG:HG3	1:E:3326:ASN:HD21	1.52	0.74
1:G:924:MET:HE1	3:M:106:PRO:HB2	1.68	0.74
1:G:2998:PHE:HA	1:G:3002:LEU:HD23	1.70	0.74
1:E:4060:LYS:O	1:E:4064:MET:HG2	1.88	0.74
1:J:2998:PHE:HA	1:J:3002:LEU:HD23	1.70	0.74
1:B:917:GLU:HB2	3:C:104:TYR:CE2	2.23	0.74
1:E:917:GLU:HB2	3:F:104:TYR:CE2	2.22	0.73
1:G:2951:ILE:HD12	1:G:2954:ARG:HD2	1.67	0.73
3:F:111:ASN:HA	3:F:114:TYR:HB2	1.69	0.73
3:K:111:ASN:HA	3:K:114:TYR:HB2	1.69	0.73
1:G:3262:ARG:HG3	1:G:3326:ASN:HD21	1.52	0.73
1:J:3262:ARG:HG3	1:J:3326:ASN:HD21	1.52	0.73
1:J:3687:GLU:HB3	1:J:3693:LYS:HE2	1.71	0.73
1:E:919:ASN:O	1:E:923:GLN:NE2	2.12	0.73
1:E:3368:ARG:HH22	1:E:3400:VAL:HG22	1.54	0.73
1:G:3687:GLU:HB3	1:G:3693:LYS:HE2	1.71	0.73
1:G:2700:MET:HE3	1:G:2701:PRO:HD3	1.71	0.72
1:B:2700:MET:HE3	1:B:2701:PRO:HD3	1.71	0.72
1:J:2700:MET:HE3	1:J:2701:PRO:HD3	1.71	0.72
1:E:2700:MET:HE3	1:E:2701:PRO:HD3	1.71	0.72
1:G:4735:GLU:OE1	1:G:4735:GLU:N	2.22	0.72
3:F:105:ASN:HD21	3:F:107:TRP:HD1	1.37	0.72
1:B:3687:GLU:HB3	1:B:3693:LYS:HE2	1.71	0.72
1:J:920:TYR:HA	1:J:923:GLN:HG2	1.72	0.72
1:E:2704:CYS:HB3	1:E:3008:GLN:HG2	1.72	0.72
1:J:3368:ARG:HH22	1:J:3400:VAL:HG22	1.54	0.72
1:B:3368:ARG:HH22	1:B:3400:VAL:HG22	1.54	0.72
1:B:2704:CYS:HB3	1:B:3008:GLN:HG2	1.72	0.72
1:B:3262:ARG:HG3	1:B:3326:ASN:HD21	1.52	0.72
3:K:105:ASN:HD21	3:K:107:TRP:HD1	1.37	0.72
1:E:920:TYR:HA	1:E:923:GLN:HG2	1.72	0.71
1:G:920:TYR:HA	1:G:923:GLN:HG2	1.72	0.71
1:G:917:GLU:HB2	3:M:104:TYR:CE2	2.24	0.71
1:G:3368:ARG:HH22	1:G:3400:VAL:HG22	1.54	0.71
1:J:3235:SER:HB3	1:J:3238:GLU:HG3	1.72	0.71
1:B:4735:GLU:OE1	1:B:4735:GLU:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1256:GLU:HB2	1:J:1275:ARG:HE	1.56	0.71
1:E:3687:GLU:HB3	1:E:3693:LYS:HE2	1.71	0.71
3:M:111:ASN:HA	3:M:114:TYR:HB2	1.73	0.71
1:E:2974:ILE:HD11	1:E:3049:LEU:HD22	1.72	0.71
3:C:105:ASN:HD21	3:C:107:TRP:HD1	1.39	0.71
1:B:920:TYR:HA	1:B:923:GLN:HG2	1.72	0.71
1:B:2974:ILE:HD11	1:B:3049:LEU:HD22	1.72	0.71
3:C:111:ASN:HA	3:C:114:TYR:HB2	1.71	0.70
1:B:3235:SER:HB3	1:B:3238:GLU:HG3	1.72	0.70
1:G:4574:ASN:HD21	1:G:4810:ALA:HA	1.56	0.70
1:J:4735:GLU:OE1	1:J:4735:GLU:N	2.22	0.70
1:G:3319:ILE:HG12	1:G:3338:LEU:HD21	1.72	0.70
1:J:4574:ASN:HD21	1:J:4810:ALA:HA	1.56	0.70
1:B:875:ALA:O	1:B:879:HIS:ND1	2.25	0.70
1:E:3603:LEU:O	1:E:3607:GLU:HG3	1.91	0.70
1:G:2704:CYS:HB3	1:G:3008:GLN:HG2	1.72	0.70
1:E:3319:ILE:HG12	1:E:3338:LEU:HD21	1.72	0.70
1:G:875:ALA:O	1:G:879:HIS:ND1	2.25	0.70
1:J:2974:ILE:HD11	1:J:3049:LEU:HD22	1.72	0.70
1:J:2704:CYS:HB3	1:J:3008:GLN:HG2	1.72	0.70
1:E:3235:SER:HB3	1:E:3238:GLU:HG3	1.72	0.70
1:B:247:TYR:CD2	1:B:372:LEU:HB3	2.26	0.70
1:E:1256:GLU:HB2	1:E:1275:ARG:HE	1.56	0.70
1:G:3235:SER:HB3	1:G:3238:GLU:HG3	1.72	0.70
1:B:3603:LEU:O	1:B:3607:GLU:HG3	1.91	0.70
1:G:2974:ILE:HD11	1:G:3049:LEU:HD22	1.72	0.70
1:G:1256:GLU:HB2	1:G:1275:ARG:HE	1.56	0.69
1:G:3603:LEU:O	1:G:3607:GLU:HG3	1.91	0.69
1:J:3319:ILE:HG12	1:J:3338:LEU:HD21	1.72	0.69
1:E:3533:ILE:O	1:E:3537:LYS:HG3	1.92	0.69
1:E:4574:ASN:HD21	1:E:4810:ALA:HA	1.56	0.69
1:B:3319:ILE:HG12	1:B:3338:LEU:HD21	1.72	0.69
1:E:3537:LYS:HB3	1:E:3604:TYR:CD1	2.27	0.69
1:E:4735:GLU:OE1	1:E:4735:GLU:N	2.22	0.69
1:G:3533:ILE:O	1:G:3537:LYS:HG3	1.92	0.69
1:J:2638:LYS:HB2	1:J:2639:MET:HE2	1.74	0.69
1:B:3537:LYS:HB3	1:B:3604:TYR:CD1	2.27	0.69
1:J:3603:LEU:O	1:J:3607:GLU:HG3	1.91	0.69
1:B:3533:ILE:O	1:B:3537:LYS:HG3	1.92	0.69
1:E:2638:LYS:HB2	1:E:2639:MET:HE2	1.74	0.69
1:E:3233:PRO:HD2	1:E:3239:MET:HG2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1740:PRO:HA	1:J:1743:ARG:HG2	1.74	0.69
1:B:4574:ASN:HD21	1:B:4810:ALA:HA	1.56	0.69
1:E:4725:LEU:HD11	1:E:4734:ARG:HG3	1.75	0.69
1:G:4679:ARG:NH1	1:G:4715:TYR:OH	2.26	0.69
1:B:4725:LEU:HD11	1:B:4734:ARG:HG3	1.75	0.69
1:E:875:ALA:O	1:E:879:HIS:ND1	2.25	0.69
1:E:3453:ARG:NH1	1:E:3456:GLN:OE1	2.26	0.69
1:G:675:LEU:HG	1:G:676:THR:HG23	1.75	0.69
1:J:3233:PRO:HD2	1:J:3239:MET:HG2	1.74	0.69
1:J:3453:ARG:NH1	1:J:3456:GLN:OE1	2.26	0.69
1:B:675:LEU:HG	1:B:676:THR:HG23	1.75	0.69
1:G:3416:VAL:HB	1:G:3516:LYS:HZ1	1.58	0.69
1:G:3537:LYS:HB3	1:G:3604:TYR:CD1	2.27	0.69
1:J:3018:LEU:HB3	1:J:3074:SER:HA	1.74	0.69
1:J:3533:ILE:O	1:J:3537:LYS:HG3	1.92	0.69
1:B:1740:PRO:HA	1:B:1743:ARG:HG2	1.74	0.68
1:E:223:PHE:O	1:E:389:PHE:N	2.21	0.68
1:E:1740:PRO:HA	1:E:1743:ARG:HG2	1.74	0.68
1:B:1256:GLU:HB2	1:B:1275:ARG:HE	1.56	0.68
1:E:675:LEU:HG	1:E:676:THR:HG23	1.75	0.68
1:E:3018:LEU:HB3	1:E:3074:SER:HA	1.74	0.68
1:E:4679:ARG:NH1	1:E:4715:TYR:OH	2.26	0.68
1:J:875:ALA:O	1:J:879:HIS:ND1	2.25	0.68
1:J:2963:LEU:O	1:J:2967:MET:HG2	1.94	0.68
1:J:4090:LYS:HZ1	1:J:4115:SER:HB2	1.58	0.68
1:J:4679:ARG:NH1	1:J:4715:TYR:OH	2.26	0.68
1:B:4116:GLU:O	1:B:4118:ASP:N	2.27	0.68
1:B:3233:PRO:HD2	1:B:3239:MET:HG2	1.74	0.68
1:B:2638:LYS:HB2	1:B:2639:MET:HE2	1.74	0.68
1:J:4116:GLU:O	1:J:4118:ASP:N	2.27	0.68
1:B:4679:ARG:NH1	1:B:4715:TYR:OH	2.26	0.68
1:G:4116:GLU:O	1:G:4118:ASP:N	2.27	0.68
1:E:3036:LYS:HD3	1:E:3039:ILE:HD12	1.76	0.68
1:E:4580:TYR:HE2	1:E:4630:TYR:HB3	1.59	0.68
1:G:2638:LYS:HB2	1:G:2639:MET:HE2	1.74	0.68
1:B:2963:LEU:O	1:B:2967:MET:HG2	1.93	0.68
1:B:3018:LEU:HB3	1:B:3074:SER:HA	1.74	0.68
1:G:4725:LEU:HD11	1:G:4734:ARG:HG3	1.75	0.68
1:G:1740:PRO:HA	1:G:1743:ARG:HG2	1.74	0.68
1:G:3233:PRO:HD2	1:G:3239:MET:HG2	1.74	0.68
1:J:675:LEU:HG	1:J:676:THR:HG23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3537:LYS:HB3	1:J:3604:TYR:CD1	2.27	0.68
1:G:2963:LEU:O	1:G:2967:MET:HG2	1.94	0.67
1:J:4725:LEU:HD11	1:J:4734:ARG:HG3	1.75	0.67
1:G:3937:TYR:O	1:G:4002:LYS:NZ	2.27	0.67
1:J:3036:LYS:HD3	1:J:3039:ILE:HD12	1.76	0.67
1:J:4580:TYR:HE2	1:J:4630:TYR:HB3	1.59	0.67
1:B:223:PHE:O	1:B:389:PHE:N	2.21	0.67
1:B:3036:LYS:HD3	1:B:3039:ILE:HD12	1.76	0.67
1:E:2963:LEU:O	1:E:2967:MET:HG2	1.93	0.67
1:E:3376:GLU:OE2	1:E:3450:ASN:ND2	2.28	0.67
1:E:4116:GLU:O	1:E:4118:ASP:N	2.27	0.67
1:G:3018:LEU:HB3	1:G:3074:SER:HA	1.74	0.67
1:G:3036:LYS:HD3	1:G:3039:ILE:HD12	1.76	0.67
1:J:3376:GLU:OE2	1:J:3450:ASN:ND2	2.28	0.67
1:B:375:LYS:HG2	1:B:377:ILE:HD11	1.75	0.67
1:E:3937:TYR:O	1:E:4002:LYS:NZ	2.27	0.67
1:G:4580:TYR:HE2	1:G:4630:TYR:HB3	1.59	0.67
1:E:2712:PRO:HA	1:E:2955:PHE:HB3	1.76	0.67
1:J:2712:PRO:HA	1:J:2955:PHE:HB3	1.76	0.67
1:E:293:LEU:HD12	1:E:378:LEU:HD13	1.75	0.67
1:G:3376:GLU:OE2	1:G:3450:ASN:ND2	2.28	0.67
1:G:4090:LYS:HZ1	1:G:4115:SER:HB2	1.60	0.67
3:F:105:ASN:HD21	3:F:107:TRP:CD1	2.13	0.67
1:G:2577:ILE:HG23	1:G:2578:MET:SD	2.35	0.67
3:K:104:TYR:HE1	3:K:106:PRO:HG3	1.60	0.67
1:B:2577:ILE:HG23	1:B:2578:MET:SD	2.35	0.67
1:B:3376:GLU:OE2	1:B:3450:ASN:ND2	2.28	0.67
1:G:874:LEU:HA	1:G:877:ASN:HD21	1.60	0.67
1:G:2952:GLU:OE1	1:G:2961:GLN:NE2	2.28	0.67
1:B:3937:TYR:O	1:B:4002:LYS:NZ	2.27	0.67
1:B:4580:TYR:HE2	1:B:4630:TYR:HB3	1.59	0.67
1:J:2952:GLU:OE1	1:J:2961:GLN:NE2	2.28	0.67
3:K:105:ASN:HD21	3:K:107:TRP:CD1	2.13	0.67
1:B:2952:GLU:OE1	1:B:2961:GLN:NE2	2.28	0.66
1:G:2712:PRO:HA	1:G:2955:PHE:HB3	1.76	0.66
1:G:247:TYR:CD2	1:G:372:LEU:HB3	2.30	0.66
1:B:924:MET:HE1	3:C:106:PRO:HB2	1.76	0.66
1:J:3937:TYR:O	1:J:4002:LYS:NZ	2.27	0.66
1:E:345:LEU:HB3	1:E:387:ALA:HB1	1.78	0.66
1:G:2536:LEU:HD13	1:G:2541:PHE:HB3	1.78	0.66
1:B:2536:LEU:HD13	1:B:2541:PHE:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2712:PRO:HA	1:B:2955:PHE:HB3	1.76	0.66
1:J:2116:LEU:O	1:J:2120:MET:HG2	1.96	0.66
1:E:2577:ILE:HG23	1:E:2578:MET:SD	2.35	0.66
1:E:2952:GLU:OE1	1:E:2961:GLN:NE2	2.28	0.66
1:J:874:LEU:HA	1:J:877:ASN:HD21	1.60	0.66
1:B:1300:HIS:O	1:B:1302:ARG:NH1	2.29	0.66
1:J:246:TYR:HE1	1:J:375:LYS:HZ3	1.43	0.66
1:E:1300:HIS:O	1:E:1302:ARG:NH1	2.29	0.66
1:G:665:GLU:HB3	1:G:792:LEU:HB2	1.78	0.66
1:G:2469:ILE:HA	1:G:2472:LEU:HD23	1.78	0.66
1:G:3453:ARG:NH1	1:G:3456:GLN:OE1	2.26	0.66
1:B:2469:ILE:HA	1:B:2472:LEU:HD23	1.78	0.66
1:E:874:LEU:HA	1:E:877:ASN:HD21	1.60	0.65
1:E:2116:LEU:O	1:E:2120:MET:HG2	1.96	0.65
1:B:345:LEU:HB3	1:B:387:ALA:HB1	1.78	0.65
1:G:227:MET:HE1	1:G:249:GLY:HA2	1.78	0.65
1:G:1300:HIS:O	1:G:1302:ARG:NH1	2.29	0.65
1:J:247:TYR:CD2	1:J:372:LEU:HB3	2.30	0.65
1:E:4090:LYS:HZ1	1:E:4115:SER:HB2	1.59	0.65
1:J:293:LEU:HD12	1:J:378:LEU:HD13	1.78	0.65
1:J:2577:ILE:HG23	1:J:2578:MET:SD	2.35	0.65
1:B:874:LEU:HA	1:B:877:ASN:HD21	1.60	0.65
1:B:2116:LEU:O	1:B:2120:MET:HG2	1.96	0.65
1:E:3996:PHE:O	1:E:4000:MET:HG3	1.96	0.65
1:G:3996:PHE:O	1:G:4000:MET:HG3	1.96	0.65
1:B:227:MET:HE1	1:B:249:GLY:HA2	1.77	0.65
1:B:1089:TYR:HD1	1:B:1152:MET:HG2	1.61	0.65
1:G:293:LEU:HD12	1:G:378:LEU:HD13	1.78	0.65
1:J:665:GLU:HB3	1:J:792:LEU:HB2	1.78	0.65
1:E:227:MET:HE1	1:E:249:GLY:HA2	1.77	0.65
1:E:3176:GLY:HA2	1:E:3272:ILE:HD12	1.79	0.65
1:G:293:LEU:HD11	1:G:355:LEU:HD12	1.79	0.65
1:J:2536:LEU:HD13	1:J:2541:PHE:HB3	1.78	0.65
1:E:2536:LEU:HD13	1:E:2541:PHE:HB3	1.78	0.65
1:G:3081:MET:HE2	1:G:3092:LEU:HD23	1.79	0.65
1:J:293:LEU:HD11	1:J:355:LEU:HD12	1.79	0.65
1:J:960:MET:HE3	1:J:962:SER:HB2	1.79	0.65
1:J:1300:HIS:O	1:J:1302:ARG:NH1	2.29	0.65
1:B:374:LYS:O	1:B:375:LYS:C	2.40	0.65
1:B:4902:GLU:O	1:B:4913:ARG:NH2	2.30	0.65
1:E:2469:ILE:HA	1:E:2472:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:223:PHE:O	1:G:389:PHE:N	2.21	0.65
1:G:2116:LEU:O	1:G:2120:MET:HG2	1.96	0.65
1:G:4131:ARG:O	1:G:4133:GLN:HG2	1.97	0.65
1:G:4902:GLU:O	1:G:4913:ARG:NH2	2.30	0.65
1:J:345:LEU:HB3	1:J:387:ALA:HB1	1.78	0.65
1:J:3081:MET:HE2	1:J:3092:LEU:HD23	1.79	0.65
1:J:3270:ILE:HA	1:J:3274:LEU:HD23	1.79	0.65
1:B:3081:MET:HE2	1:B:3092:LEU:HD23	1.79	0.64
1:E:1089:TYR:HD1	1:E:1152:MET:HG2	1.61	0.64
1:G:345:LEU:HB3	1:G:387:ALA:HB1	1.78	0.64
1:J:227:MET:HE1	1:J:249:GLY:HA2	1.77	0.64
3:F:104:TYR:HE1	3:F:106:PRO:HG3	1.59	0.64
1:B:3996:PHE:O	1:B:4000:MET:HG3	1.96	0.64
1:G:3270:ILE:HA	1:G:3274:LEU:HD23	1.79	0.64
1:G:3989:VAL:HG13	1:G:4023:MET:HE2	1.79	0.64
1:J:3996:PHE:O	1:J:4000:MET:HG3	1.96	0.64
1:G:3445:TRP:HA	1:G:3451:PHE:HD1	1.63	0.64
1:B:665:GLU:HB3	1:B:792:LEU:HB2	1.78	0.64
1:B:2377:LEU:HA	1:B:2469:ILE:HD11	1.79	0.64
1:B:3453:ARG:NH1	1:B:3456:GLN:OE1	2.26	0.64
1:E:652:ARG:HD3	1:E:750:LEU:HB3	1.80	0.64
1:J:2469:ILE:HA	1:J:2472:LEU:HD23	1.78	0.64
1:J:3176:GLY:HA2	1:J:3272:ILE:HD12	1.79	0.64
1:J:3553:LEU:HD11	1:J:3597:GLN:HG3	1.79	0.64
1:B:983:THR:O	1:B:987:ARG:HG3	1.98	0.64
1:B:3270:ILE:HA	1:B:3274:LEU:HD23	1.79	0.64
1:B:3445:TRP:HA	1:B:3451:PHE:HD1	1.63	0.64
1:E:3270:ILE:HA	1:E:3274:LEU:HD23	1.79	0.64
1:E:3445:TRP:HA	1:E:3451:PHE:HD1	1.63	0.64
1:J:3445:TRP:HA	1:J:3451:PHE:HD1	1.63	0.64
1:G:960:MET:HE3	1:G:962:SER:HB2	1.79	0.64
1:G:983:THR:O	1:G:987:ARG:HG3	1.98	0.64
1:G:2377:LEU:HA	1:G:2469:ILE:HD11	1.79	0.64
1:J:4131:ARG:O	1:J:4133:GLN:HG2	1.97	0.64
1:B:4131:ARG:O	1:B:4133:GLN:HG2	1.97	0.64
1:E:3989:VAL:HG13	1:E:4023:MET:HE2	1.80	0.64
3:M:105:ASN:HD21	3:M:107:TRP:HD1	1.46	0.64
1:B:3553:LEU:HD11	1:B:3597:GLN:HG3	1.79	0.64
1:E:247:TYR:H	1:E:374:LYS:H	1.46	0.64
1:J:983:THR:O	1:J:987:ARG:HG3	1.98	0.64
1:B:293:LEU:HD12	1:B:378:LEU:HD13	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3176:GLY:HA2	1:B:3272:ILE:HD12	1.79	0.64
1:B:3987:ASP:OD2	1:E:162:LYS:NZ	2.29	0.64
1:E:665:GLU:HB3	1:E:792:LEU:HB2	1.78	0.64
1:G:1089:TYR:HD1	1:G:1152:MET:HG2	1.61	0.64
1:J:1089:TYR:HD1	1:J:1152:MET:HG2	1.61	0.64
1:E:293:LEU:HD11	1:E:355:LEU:HD12	1.79	0.64
1:E:960:MET:HE3	1:E:962:SER:HB2	1.79	0.64
1:E:2377:LEU:HA	1:E:2469:ILE:HD11	1.79	0.64
1:E:4131:ARG:O	1:E:4133:GLN:HG2	1.97	0.64
1:B:652:ARG:HD3	1:B:750:LEU:HB3	1.80	0.63
1:E:3081:MET:HE2	1:E:3092:LEU:HD23	1.79	0.63
1:J:2862:LEU:HG	1:J:2864:GLY:H	1.63	0.63
1:J:3194:LEU:HG	1:J:3279:SER:HB2	1.80	0.63
1:E:983:THR:O	1:E:987:ARG:HG3	1.98	0.63
1:G:246:TYR:HE1	1:G:375:LYS:HZ3	1.45	0.63
1:G:3176:GLY:HA2	1:G:3272:ILE:HD12	1.79	0.63
1:J:4902:GLU:O	1:J:4913:ARG:NH2	2.30	0.63
1:B:293:LEU:HD11	1:B:355:LEU:HD12	1.79	0.63
1:E:4902:GLU:O	1:E:4913:ARG:NH2	2.30	0.63
3:F:33:SER:HA	3:F:52:THR:HA	1.80	0.63
3:K:33:SER:HA	3:K:52:THR:HA	1.79	0.63
1:B:960:MET:HE3	1:B:962:SER:HB2	1.79	0.63
1:E:3194:LEU:HG	1:E:3279:SER:HB2	1.80	0.63
1:E:3842:LEU:HD23	1:E:3875:MET:HG3	1.81	0.63
1:G:404:ILE:HD13	1:G:481:GLU:HG3	1.81	0.63
1:G:2862:LEU:HG	1:G:2864:GLY:H	1.63	0.63
1:B:224:HIS:HA	1:B:388:LEU:HA	1.81	0.63
1:J:404:ILE:HD13	1:J:481:GLU:HG3	1.81	0.63
1:J:652:ARG:HD3	1:J:750:LEU:HB3	1.80	0.63
1:B:404:ILE:HD13	1:B:481:GLU:HG3	1.81	0.63
1:B:2447:LYS:HG2	1:B:2450:ALA:H	1.63	0.63
1:B:2862:LEU:HG	1:B:2864:GLY:H	1.63	0.63
1:B:3842:LEU:HD23	1:B:3875:MET:HG3	1.81	0.63
1:B:3970:GLN:HE21	1:B:5004:THR:HA	1.63	0.63
1:G:3553:LEU:HD11	1:G:3597:GLN:HG3	1.79	0.63
1:J:2377:LEU:HA	1:J:2469:ILE:HD11	1.79	0.63
1:E:2447:LYS:HG2	1:E:2450:ALA:H	1.63	0.63
1:E:3141:THR:OG1	1:E:3193:CYS:SG	2.56	0.63
1:G:224:HIS:HA	1:G:388:LEU:HA	1.81	0.63
1:G:359:TYR:HA	1:G:376:ALA:HA	1.80	0.63
1:G:3141:THR:OG1	1:G:3193:CYS:SG	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3989:VAL:HG13	1:J:4023:MET:HE2	1.80	0.63
1:E:404:ILE:HD13	1:E:481:GLU:HG3	1.81	0.63
1:E:3141:THR:HG1	1:E:3193:CYS:HG	1.43	0.63
1:G:633:LEU:HD13	1:G:1639:LEU:HD21	1.81	0.63
1:J:224:HIS:HA	1:J:388:LEU:HA	1.81	0.63
3:C:105:ASN:HD21	3:C:107:TRP:CD1	2.15	0.63
1:E:224:HIS:HA	1:E:388:LEU:HA	1.81	0.63
1:E:3987:ASP:OD2	1:J:162:LYS:NZ	2.30	0.63
1:J:3141:THR:OG1	1:J:3193:CYS:SG	2.56	0.63
1:J:3416:VAL:HB	1:J:3516:LYS:HZ3	1.62	0.63
1:B:2261:SER:HA	1:B:2265:LEU:HD23	1.81	0.62
1:B:3989:VAL:HG13	1:B:4023:MET:HE2	1.81	0.62
1:G:3194:LEU:HG	1:G:3279:SER:HB2	1.80	0.62
3:C:33:SER:HA	3:C:52:THR:HA	1.81	0.62
1:E:3553:LEU:HD11	1:E:3597:GLN:HG3	1.79	0.62
1:E:2261:SER:HA	1:E:2265:LEU:HD23	1.81	0.62
1:E:4090:LYS:H	1:E:4121:GLU:HB3	1.64	0.62
1:G:2447:LYS:HG2	1:G:2450:ALA:H	1.63	0.62
1:J:2376:LEU:HB2	1:J:2465:ASP:HB3	1.82	0.62
3:M:66:ARG:NH1	3:M:83:ASN:O	2.32	0.62
1:B:633:LEU:HD13	1:B:1639:LEU:HD21	1.81	0.62
1:G:2376:LEU:HB2	1:G:2465:ASP:HB3	1.82	0.62
1:J:2447:LYS:HG2	1:J:2450:ALA:H	1.63	0.62
1:J:4090:LYS:H	1:J:4121:GLU:HB3	1.64	0.62
1:E:633:LEU:HD13	1:E:1639:LEU:HD21	1.81	0.62
1:G:652:ARG:HD3	1:G:750:LEU:HB3	1.80	0.62
1:J:633:LEU:HD13	1:J:1639:LEU:HD21	1.81	0.62
1:B:3077:ALA:HA	1:B:3080:VAL:HG22	1.82	0.62
1:E:2862:LEU:HG	1:E:2864:GLY:H	1.63	0.62
1:E:294:THR:HG23	1:E:297:GLN:H	1.65	0.62
1:E:3077:ALA:HA	1:E:3080:VAL:HG22	1.82	0.62
1:G:3466:ASN:ND2	1:G:3507:THR:HG23	2.15	0.62
1:G:3842:LEU:HD23	1:G:3875:MET:HG3	1.81	0.62
1:G:3970:GLN:HE21	1:G:5004:THR:HA	1.64	0.62
1:J:3842:LEU:HD23	1:J:3875:MET:HG3	1.80	0.62
1:J:4059:LEU:HD13	1:J:4167:ALA:HB2	1.82	0.62
1:B:4059:LEU:HD13	1:B:4167:ALA:HB2	1.82	0.61
1:B:4154:VAL:O	1:B:4161:ARG:NH2	2.33	0.61
1:E:4059:LEU:HD13	1:E:4167:ALA:HB2	1.82	0.61
1:G:2261:SER:HA	1:G:2265:LEU:HD23	1.82	0.61
1:J:359:TYR:HA	1:J:376:ALA:HA	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3194:LEU:HG	1:B:3279:SER:HB2	1.80	0.61
1:E:4154:VAL:O	1:E:4161:ARG:NH2	2.33	0.61
1:J:2781:VAL:HA	1:J:2789:PRO:HB2	1.82	0.61
3:F:66:ARG:NH1	3:F:83:ASN:O	2.32	0.61
1:B:1981:MET:HE2	1:B:1981:MET:HA	1.82	0.61
1:B:3141:THR:OG1	1:B:3193:CYS:SG	2.56	0.61
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.00	0.61
1:G:2781:VAL:HA	1:G:2789:PRO:HB2	1.83	0.61
1:G:3077:ALA:HA	1:G:3080:VAL:HG22	1.82	0.61
1:B:2376:LEU:HB2	1:B:2465:ASP:HB3	1.82	0.61
1:B:4090:LYS:H	1:B:4121:GLU:HB3	1.64	0.61
1:E:2781:VAL:HA	1:E:2789:PRO:HB2	1.82	0.61
1:G:891:TRP:HA	1:G:902:ARG:HB3	1.83	0.61
1:G:1981:MET:HE2	1:G:1981:MET:HA	1.82	0.61
1:J:2522:LEU:HA	1:J:2526:PHE:HD2	1.66	0.61
1:B:1583:GLU:OE1	1:B:1586:ASN:ND2	2.34	0.61
1:B:2781:VAL:HA	1:B:2789:PRO:HB2	1.82	0.61
1:B:3466:ASN:ND2	1:B:3507:THR:HG23	2.15	0.61
1:E:3466:ASN:ND2	1:E:3507:THR:HG23	2.15	0.61
1:E:4654:ALA:O	1:E:4658:ILE:HG12	2.00	0.61
1:G:4059:LEU:HD13	1:G:4167:ALA:HB2	1.82	0.61
1:J:891:TRP:HE1	1:J:904:HIS:HA	1.66	0.61
1:E:3097:GLU:OE1	1:E:3167:ARG:NH1	2.34	0.61
1:J:3466:ASN:ND2	1:J:3507:THR:HG23	2.15	0.61
3:C:66:ARG:NH1	3:C:83:ASN:O	2.32	0.61
1:B:891:TRP:HA	1:B:902:ARG:HB3	1.83	0.61
1:E:2376:LEU:HB2	1:E:2465:ASP:HB3	1.82	0.61
1:G:2522:LEU:HA	1:G:2526:PHE:HD2	1.66	0.61
2:H:42:ARG:HB3	2:H:44:LYS:HE2	1.83	0.61
1:B:182:LEU:HD11	1:B:189:LEU:HB3	1.83	0.61
1:B:294:THR:HG23	1:B:297:GLN:H	1.65	0.61
1:B:1024:TYR:HA	1:B:1027:LEU:HD12	1.83	0.61
1:B:3997:ALA:HA	1:B:4000:MET:HE2	1.82	0.61
1:G:4090:LYS:H	1:G:4121:GLU:HB3	1.64	0.61
1:J:182:LEU:HD11	1:J:189:LEU:HB3	1.83	0.61
1:B:359:TYR:HA	1:B:376:ALA:HA	1.83	0.61
1:B:3038:MET:C	1:B:3038:MET:HE2	2.26	0.61
1:B:3539:ARG:HA	1:B:3542:LEU:HB2	1.83	0.61
1:E:3997:ALA:HA	1:E:4000:MET:HE2	1.82	0.61
1:G:182:LEU:HD11	1:G:189:LEU:HB3	1.83	0.61
1:G:2615:ARG:HG3	1:G:2664:PHE:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3537:LYS:HB3	1:G:3604:TYR:CE1	2.36	0.61
1:J:223:PHE:O	1:J:389:PHE:N	2.21	0.61
1:J:2261:SER:HA	1:J:2265:LEU:HD23	1.82	0.61
1:J:3077:ALA:HA	1:J:3080:VAL:HG22	1.82	0.61
1:B:2599:GLN:O	1:B:2603:ILE:HG12	2.01	0.60
1:E:2522:LEU:HA	1:E:2526:PHE:HD2	1.66	0.60
1:J:3539:ARG:HA	1:J:3542:LEU:HB2	1.83	0.60
2:I:42:ARG:HB3	2:I:44:LYS:HE2	1.83	0.60
1:B:2989:SER:HB2	1:B:2992:GLU:HB3	1.83	0.60
1:B:3416:VAL:HB	1:B:3516:LYS:HZ1	1.64	0.60
1:B:3441:ILE:HG22	1:B:3510:ILE:HD11	1.84	0.60
1:E:1981:MET:HE2	1:E:1981:MET:HA	1.82	0.60
1:G:266:ARG:HH12	1:G:273:HIS:CE1	2.19	0.60
1:G:3997:ALA:HA	1:G:4000:MET:HE2	1.82	0.60
1:J:266:ARG:HH12	1:J:273:HIS:CE1	2.19	0.60
1:J:4835:LYS:O	1:J:4839:MET:HG3	2.01	0.60
1:B:399:GLN:O	1:B:403:MET:HG3	2.02	0.60
1:B:2522:LEU:HA	1:B:2526:PHE:HD2	1.66	0.60
1:E:891:TRP:HE1	1:E:904:HIS:HA	1.66	0.60
1:E:1583:GLU:OE1	1:E:1586:ASN:ND2	2.34	0.60
1:E:2989:SER:HB2	1:E:2992:GLU:HB3	1.83	0.60
1:J:3537:LYS:HB3	1:J:3604:TYR:CE1	2.36	0.60
1:E:266:ARG:HH12	1:E:273:HIS:CE1	2.20	0.60
1:E:399:GLN:O	1:E:403:MET:HG3	2.02	0.60
1:G:3539:ARG:HA	1:G:3542:LEU:HB2	1.83	0.60
1:J:294:THR:HG23	1:J:297:GLN:H	1.66	0.60
1:J:3201:MET:SD	1:J:3203:VAL:HG12	2.42	0.60
1:J:3970:GLN:HE21	1:J:5004:THR:HA	1.65	0.60
2:A:42:ARG:HB3	2:A:44:LYS:HE2	1.83	0.60
1:E:3038:MET:HE2	1:E:3038:MET:C	2.26	0.60
1:E:3441:ILE:HG22	1:E:3510:ILE:HD11	1.83	0.60
1:G:399:GLN:O	1:G:403:MET:HG3	2.02	0.60
1:G:676:THR:HG21	1:G:1633:PRO:HB3	1.84	0.60
1:G:1024:TYR:HA	1:G:1027:LEU:HD12	1.83	0.60
1:J:2599:GLN:O	1:J:2603:ILE:HG12	2.01	0.60
1:J:2989:SER:HB2	1:J:2992:GLU:HB3	1.83	0.60
1:B:891:TRP:HE1	1:B:904:HIS:HA	1.66	0.60
1:E:1024:TYR:HA	1:E:1027:LEU:HD12	1.83	0.60
1:G:4835:LYS:O	1:G:4839:MET:HG3	2.01	0.60
1:J:891:TRP:HA	1:J:902:ARG:HB3	1.83	0.60
1:J:3097:GLU:OE1	1:J:3167:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4767:TRP:HE1	1:J:4771:ILE:HD11	1.67	0.60
1:B:4835:LYS:O	1:B:4839:MET:HG3	2.01	0.60
1:E:4835:LYS:O	1:E:4839:MET:HG3	2.01	0.60
1:G:294:THR:HG23	1:G:297:GLN:H	1.66	0.60
1:G:2989:SER:HB2	1:G:2992:GLU:HB3	1.83	0.60
1:G:3201:MET:SD	1:G:3203:VAL:HG12	2.42	0.60
1:G:4654:ALA:O	1:G:4658:ILE:HG12	2.00	0.60
1:J:365:LYS:HE2	1:J:369:LEU:HD21	1.83	0.60
1:J:1583:GLU:OE1	1:J:1586:ASN:ND2	2.34	0.60
1:J:3441:ILE:HG22	1:J:3510:ILE:HD11	1.84	0.60
1:J:3997:ALA:HA	1:J:4000:MET:HE2	1.82	0.60
1:B:266:ARG:HH12	1:B:273:HIS:CE1	2.19	0.60
1:B:3263:TYR:HA	1:B:3270:ILE:HG13	1.84	0.60
1:B:3537:LYS:HB3	1:B:3604:TYR:CE1	2.36	0.60
1:E:355:LEU:HD13	1:E:378:LEU:O	2.02	0.60
1:E:3537:LYS:HB3	1:E:3604:TYR:CE1	2.36	0.60
1:E:3539:ARG:HA	1:E:3542:LEU:HB2	1.83	0.60
1:G:900:ASN:ND2	3:M:61:ASP:OD1	2.34	0.60
1:G:2273:LEU:HD23	1:G:2330:ARG:HB3	1.84	0.60
1:G:2599:GLN:O	1:G:2603:ILE:HG12	2.01	0.60
1:G:3038:MET:C	1:G:3038:MET:HE2	2.26	0.60
1:G:3263:TYR:HA	1:G:3270:ILE:HG13	1.84	0.60
1:G:4154:VAL:O	1:G:4161:ARG:NH2	2.33	0.60
1:G:4767:TRP:HE1	1:G:4771:ILE:HD11	1.67	0.60
2:D:42:ARG:HB3	2:D:44:LYS:HE2	1.83	0.60
1:E:247:TYR:CD2	1:E:372:LEU:HB3	2.37	0.60
1:E:891:TRP:HA	1:E:902:ARG:HB3	1.83	0.60
1:E:2615:ARG:HG3	1:E:2664:PHE:HB3	1.83	0.60
1:E:4767:TRP:HE1	1:E:4771:ILE:HD11	1.67	0.60
1:G:365:LYS:HE2	1:G:369:LEU:HD21	1.84	0.60
1:G:3441:ILE:HG22	1:G:3510:ILE:HD11	1.83	0.60
1:J:2376:LEU:O	1:J:2380:ILE:HG12	2.02	0.60
1:J:3038:MET:C	1:J:3038:MET:HE2	2.26	0.60
1:J:4654:ALA:O	1:J:4658:ILE:HG12	2.00	0.60
1:B:676:THR:HG21	1:B:1633:PRO:HB3	1.84	0.60
1:E:182:LEU:HD11	1:E:189:LEU:HB3	1.83	0.60
1:E:676:THR:HG21	1:E:1633:PRO:HB3	1.84	0.60
1:E:3201:MET:SD	1:E:3203:VAL:HG12	2.42	0.60
1:G:1583:GLU:OE1	1:G:1586:ASN:ND2	2.34	0.60
1:G:3097:GLU:OE1	1:G:3167:ARG:NH1	2.34	0.60
1:G:3339:ALA:HB2	1:G:3407:ALA:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3097:GLU:OE1	1:B:3167:ARG:NH1	2.34	0.59
1:E:2599:GLN:O	1:E:2603:ILE:HG12	2.01	0.59
1:E:3970:GLN:HE21	1:E:5004:THR:HA	1.66	0.59
1:J:399:GLN:O	1:J:403:MET:HG3	2.02	0.59
1:J:1981:MET:HE2	1:J:1981:MET:HA	1.82	0.59
1:J:4154:VAL:O	1:J:4161:ARG:NH2	2.33	0.59
1:J:941:MET:HE1	1:J:1049:TYR:HB3	1.84	0.59
1:J:3263:TYR:HA	1:J:3270:ILE:HG13	1.84	0.59
1:B:2615:ARG:HG3	1:B:2664:PHE:HB3	1.83	0.59
1:B:4767:TRP:HE1	1:B:4771:ILE:HD11	1.67	0.59
1:G:891:TRP:HE1	1:G:904:HIS:HA	1.66	0.59
1:E:941:MET:HE1	1:E:1049:TYR:HB3	1.84	0.59
1:E:972:LEU:HB2	1:E:1044:ARG:HE	1.67	0.59
1:E:3263:TYR:HA	1:E:3270:ILE:HG13	1.84	0.59
1:J:2273:LEU:HD23	1:J:2330:ARG:HB3	1.84	0.59
1:B:941:MET:HE1	1:B:1049:TYR:HB3	1.84	0.59
1:J:1447:CYS:HB3	1:J:1555:LEU:HB3	1.84	0.59
1:B:4091:LYS:O	1:B:4095:LYS:HG2	2.03	0.59
1:J:1024:TYR:HA	1:J:1027:LEU:HD12	1.83	0.59
1:J:2615:ARG:HG3	1:J:2664:PHE:HB3	1.83	0.59
1:J:2961:GLN:HA	1:J:2964:LEU:HD12	1.85	0.59
1:B:247:TYR:HD2	1:B:372:LEU:HB3	1.68	0.59
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.85	0.59
1:B:3201:MET:SD	1:B:3203:VAL:HG12	2.42	0.59
1:G:2376:LEU:O	1:G:2380:ILE:HG12	2.02	0.59
1:G:2575:ARG:NH2	1:G:2578:MET:HE3	2.18	0.59
1:B:972:LEU:HB2	1:B:1044:ARG:HE	1.67	0.59
1:B:2575:ARG:NH2	1:B:2578:MET:HE3	2.18	0.59
1:E:224:HIS:NE2	1:E:230:CYS:SG	2.76	0.59
1:E:365:LYS:HE2	1:E:369:LEU:HD21	1.83	0.59
1:G:2961:GLN:HA	1:G:2964:LEU:HD12	1.85	0.59
1:J:676:THR:HG21	1:J:1633:PRO:HB3	1.84	0.59
1:J:1423:ASP:OD2	1:J:1425:GLU:HG2	2.03	0.59
2:D:90:VAL:HG12	2:D:91:ILE:HG13	1.85	0.59
3:M:105:ASN:HD21	3:M:107:TRP:CD1	2.20	0.59
1:B:3339:ALA:HB2	1:B:3407:ALA:HA	1.84	0.59
1:E:2376:LEU:O	1:E:2380:ILE:HG12	2.02	0.59
1:G:985:VAL:HG22	1:G:1043:VAL:HG21	1.85	0.59
1:G:3537:LYS:HA	1:G:3540:TYR:HD2	1.68	0.59
1:J:3331:GLU:HG3	1:J:3334:TRP:HB3	1.85	0.59
1:B:2273:LEU:HD23	1:B:2330:ARG:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2961:GLN:HA	1:E:2964:LEU:HD12	1.85	0.58
1:B:1447:CYS:HB3	1:B:1555:LEU:HB3	1.84	0.58
1:E:2736:ASP:OD1	1:E:2736:ASP:N	2.37	0.58
1:E:3331:GLU:HG3	1:E:3334:TRP:HB3	1.85	0.58
1:E:3537:LYS:HA	1:E:3540:TYR:HD2	1.68	0.58
3:M:33:SER:HA	3:M:52:THR:HA	1.84	0.58
1:B:229:GLU:HG2	1:B:252:VAL:HG13	1.85	0.58
1:E:1095:VAL:HB	1:E:1199:VAL:HG23	1.85	0.58
1:E:1423:ASP:OD2	1:E:1425:GLU:HG2	2.03	0.58
1:E:2273:LEU:HD23	1:E:2330:ARG:HB3	1.84	0.58
1:G:941:MET:HE1	1:G:1049:TYR:HB3	1.84	0.58
1:G:972:LEU:HB2	1:G:1044:ARG:HE	1.67	0.58
1:J:224:HIS:NE2	1:J:230:CYS:SG	2.76	0.58
1:J:1095:VAL:HB	1:J:1199:VAL:HG23	1.86	0.58
2:A:90:VAL:HG12	2:A:91:ILE:HG13	1.85	0.58
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.02	0.58
1:G:1780:PRO:O	2:H:42:ARG:NH1	2.36	0.58
1:J:985:VAL:HG22	1:J:1043:VAL:HG21	1.85	0.58
1:E:3230:LEU:HG	1:E:3232:LEU:HG	1.86	0.58
1:E:3360:PRO:O	1:E:3364:ARG:HG2	2.04	0.58
1:G:229:GLU:HG2	1:G:252:VAL:HG13	1.85	0.58
1:G:1447:CYS:HB3	1:G:1555:LEU:HB3	1.84	0.58
1:B:208:CYS:HB3	1:B:272:SER:HB3	1.86	0.58
1:B:1095:VAL:HB	1:B:1199:VAL:HG23	1.86	0.58
1:B:3230:LEU:HG	1:B:3232:LEU:HG	1.86	0.58
1:E:1447:CYS:HB3	1:E:1555:LEU:HB3	1.84	0.58
1:E:2310:CYS:HB3	1:E:2313:LEU:HG	1.86	0.58
1:E:3339:ALA:HB2	1:E:3407:ALA:HA	1.84	0.58
1:E:4091:LYS:O	1:E:4095:LYS:HG2	2.03	0.58
1:G:1423:ASP:OD2	1:G:1425:GLU:HG2	2.03	0.58
3:K:66:ARG:NH1	3:K:83:ASN:O	2.32	0.58
1:B:3360:PRO:O	1:B:3364:ARG:HG2	2.04	0.58
1:G:1095:VAL:HB	1:G:1199:VAL:HG23	1.86	0.58
1:G:4091:LYS:O	1:G:4095:LYS:HG2	2.03	0.58
2:I:90:VAL:HG12	2:I:91:ILE:HG13	1.85	0.58
3:C:4:LEU:HD21	3:C:97:ALA:HB2	1.86	0.58
3:K:4:LEU:HD21	3:K:97:ALA:HB2	1.86	0.58
1:B:224:HIS:NE2	1:B:230:CYS:SG	2.76	0.58
1:B:231:LEU:HA	1:B:245:VAL:HB	1.86	0.58
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.85	0.58
1:E:1448:VAL:HG12	1:E:1554:VAL:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3051:ARG:HH21	1:E:3098:SER:HB3	1.69	0.58
1:J:972:LEU:HB2	1:J:1044:ARG:HE	1.67	0.58
1:J:2175:GLU:O	1:J:2179:ILE:HG12	2.03	0.58
1:J:3246:LEU:HD23	1:J:3246:LEU:H	1.69	0.58
1:B:1423:ASP:OD2	1:B:1425:GLU:HG2	2.03	0.58
1:B:2418:LEU:O	1:B:2422:ILE:HG12	2.04	0.58
1:B:2736:ASP:OD1	1:B:2736:ASP:N	2.37	0.58
1:B:3331:GLU:HG3	1:B:3334:TRP:HB3	1.86	0.58
1:B:3537:LYS:HA	1:B:3540:TYR:HD2	1.68	0.58
1:E:2418:LEU:O	1:E:2422:ILE:HG12	2.04	0.58
1:G:162:LYS:NZ	1:J:3987:ASP:OD2	2.33	0.58
1:G:224:HIS:NE2	1:G:230:CYS:SG	2.76	0.58
1:G:2310:CYS:HB3	1:G:2313:LEU:HG	1.86	0.58
1:G:2418:LEU:O	1:G:2422:ILE:HG12	2.04	0.58
1:G:3230:LEU:HG	1:G:3232:LEU:HG	1.86	0.58
1:J:3360:PRO:O	1:J:3364:ARG:HG2	2.04	0.58
3:M:4:LEU:HD21	3:M:97:ALA:HB2	1.86	0.58
1:B:23:GLN:HG2	1:B:36:CYS:HB3	1.86	0.58
1:B:2175:GLU:O	1:B:2179:ILE:HG12	2.03	0.58
1:B:2310:CYS:HB3	1:B:2313:LEU:HG	1.86	0.58
1:B:2476:ILE:HD11	1:B:2536:LEU:HD21	1.86	0.58
1:B:3709:ALA:HB2	1:B:3782:MET:HE2	1.86	0.58
1:E:2534:ALA:HB1	1:E:2588:ARG:HD2	1.86	0.58
1:E:3709:ALA:HB2	1:E:3782:MET:HE2	1.86	0.58
1:G:2476:ILE:HD11	1:G:2536:LEU:HD21	1.86	0.58
1:J:3051:ARG:HH21	1:J:3098:SER:HB3	1.69	0.58
1:J:3230:LEU:HG	1:J:3232:LEU:HG	1.86	0.58
2:H:90:VAL:HG12	2:H:91:ILE:HG13	1.85	0.58
1:G:2534:ALA:HB1	1:G:2588:ARG:HD2	1.86	0.57
1:G:3246:LEU:H	1:G:3246:LEU:HD23	1.69	0.57
1:J:2310:CYS:HB3	1:J:2313:LEU:HG	1.86	0.57
1:B:2182:ILE:O	1:B:2186:MET:HG2	2.05	0.57
1:E:2175:GLU:O	1:E:2179:ILE:HG12	2.04	0.57
1:E:2182:ILE:O	1:E:2186:MET:HG2	2.05	0.57
1:E:3205:PHE:HE2	1:E:3243:ILE:HG21	1.69	0.57
1:E:3326:ASN:HB3	1:E:3329:ILE:HB	1.86	0.57
1:E:3540:TYR:CE2	1:E:3549:VAL:HG11	2.40	0.57
1:J:3205:PHE:HE2	1:J:3243:ILE:HG21	1.69	0.57
1:E:208:CYS:HB3	1:E:272:SER:HB3	1.86	0.57
1:E:231:LEU:HA	1:E:245:VAL:HB	1.85	0.57
1:E:985:VAL:HG22	1:E:1043:VAL:HG21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2575:ARG:NH2	1:E:2578:MET:HE3	2.18	0.57
1:G:2736:ASP:OD1	1:G:2736:ASP:N	2.36	0.57
1:G:3331:GLU:HG3	1:G:3334:TRP:HB3	1.85	0.57
1:G:3540:TYR:CE2	1:G:3549:VAL:HG11	2.39	0.57
1:J:3339:ALA:HB2	1:J:3407:ALA:HA	1.84	0.57
1:J:3537:LYS:HA	1:J:3540:TYR:HD2	1.68	0.57
1:J:4091:LYS:O	1:J:4095:LYS:HG2	2.03	0.57
3:M:30:SER:HB3	3:M:99:ARG:HB3	1.87	0.57
1:B:2591:ARG:HH12	1:B:2637:ALA:HA	1.70	0.57
1:E:4056:GLU:HG2	1:E:4166:LEU:HD13	1.86	0.57
1:G:208:CYS:HB3	1:G:272:SER:HB3	1.86	0.57
1:J:1780:PRO:O	2:I:42:ARG:NH1	2.38	0.57
1:E:229:GLU:HG2	1:E:252:VAL:HG13	1.85	0.57
1:J:23:GLN:HG2	1:J:36:CYS:HB3	1.86	0.57
1:J:2534:ALA:HB1	1:J:2588:ARG:HD2	1.86	0.57
1:J:3709:ALA:HB2	1:J:3782:MET:HE2	1.86	0.57
1:B:2382:GLU:HA	1:B:2385:ARG:HE	1.70	0.57
1:B:3540:TYR:CE2	1:B:3549:VAL:HG11	2.40	0.57
1:B:4072:VAL:HG23	1:B:4125:PHE:HE2	1.70	0.57
1:G:3360:PRO:O	1:G:3364:ARG:HG2	2.04	0.57
1:G:4072:VAL:HG23	1:G:4125:PHE:HE2	1.70	0.57
1:J:4056:GLU:HG2	1:J:4166:LEU:HD13	1.86	0.57
3:C:30:SER:HB3	3:C:99:ARG:HB3	1.87	0.57
3:F:4:LEU:HD21	3:F:97:ALA:HB2	1.86	0.57
1:E:765:GLN:NE2	1:E:1478:ASP:O	2.38	0.57
1:G:23:GLN:HG2	1:G:36:CYS:HB3	1.86	0.57
1:G:2175:GLU:O	1:G:2179:ILE:HG12	2.04	0.57
1:G:3051:ARG:HH21	1:G:3098:SER:HB3	1.69	0.57
1:J:2476:ILE:HD11	1:J:2536:LEU:HD21	1.86	0.57
1:B:359:TYR:HB2	1:B:374:LYS:HB3	1.86	0.57
1:B:3246:LEU:HD23	1:B:3246:LEU:H	1.69	0.57
1:G:2382:GLU:HA	1:G:2385:ARG:HE	1.70	0.57
1:J:2575:ARG:NH2	1:J:2578:MET:HE3	2.18	0.57
1:J:3540:TYR:CE2	1:J:3549:VAL:HG11	2.39	0.57
1:B:4053:SER:O	1:B:4057:MET:HG3	2.05	0.57
1:E:877:ASN:ND2	1:E:1045:THR:HG21	2.20	0.57
1:E:1011:GLN:OE1	1:E:1020:ARG:NH2	2.35	0.57
1:G:877:ASN:ND2	1:G:1045:THR:HG21	2.20	0.57
1:G:3450:ASN:HA	1:G:3453:ARG:HB2	1.87	0.57
1:J:231:LEU:HA	1:J:245:VAL:HB	1.86	0.57
1:J:2382:GLU:HA	1:J:2385:ARG:HE	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3534:MET:SD	1:J:3537:LYS:NZ	2.75	0.57
1:J:4072:VAL:HG23	1:J:4125:PHE:HE2	1.70	0.57
1:B:224:HIS:HD2	1:B:388:LEU:HB3	1.70	0.57
1:B:1448:VAL:HG12	1:B:1554:VAL:HG23	1.86	0.57
1:G:2591:ARG:HH12	1:G:2637:ALA:HA	1.69	0.57
1:G:2755:ILE:HG23	1:G:2813:LEU:HD13	1.87	0.57
1:J:229:GLU:HG2	1:J:252:VAL:HG13	1.85	0.57
1:J:1023:PRO:HD2	1:J:1026:LEU:HD12	1.87	0.57
1:B:1225:PRO:HG2	1:B:1228:ILE:HB	1.87	0.56
1:B:3326:ASN:HB3	1:B:3329:ILE:HB	1.86	0.56
1:E:4072:VAL:HG23	1:E:4125:PHE:HE2	1.70	0.56
1:G:224:HIS:HD2	1:G:388:LEU:HB3	1.70	0.56
1:G:231:LEU:HA	1:G:245:VAL:HB	1.86	0.56
1:G:1023:PRO:HD2	1:G:1026:LEU:HD12	1.87	0.56
1:G:2175:GLU:HG3	1:G:2228:MET:HB2	1.86	0.56
1:G:4053:SER:O	1:G:4057:MET:HG3	2.05	0.56
1:B:3169:LEU:HD13	1:B:3197:LEU:HD11	1.88	0.56
1:E:224:HIS:HD2	1:E:388:LEU:HB3	1.70	0.56
1:E:1225:PRO:HG2	1:E:1228:ILE:HB	1.87	0.56
1:E:4053:SER:O	1:E:4057:MET:HG3	2.05	0.56
1:G:924:MET:HE1	3:M:106:PRO:CB	2.34	0.56
1:G:1448:VAL:HG12	1:G:1554:VAL:HG23	1.86	0.56
1:G:2182:ILE:O	1:G:2186:MET:HG2	2.05	0.56
1:J:208:CYS:HB3	1:J:272:SER:HB3	1.86	0.56
1:J:1448:VAL:HG12	1:J:1554:VAL:HG23	1.86	0.56
1:J:2175:GLU:HG3	1:J:2228:MET:HB2	1.86	0.56
1:B:3205:PHE:HE2	1:B:3243:ILE:HG21	1.69	0.56
1:E:462:GLU:HG2	1:E:3710:LEU:HD13	1.88	0.56
1:E:2591:ARG:HH12	1:E:2637:ALA:HA	1.69	0.56
1:E:3246:LEU:HD23	1:E:3246:LEU:H	1.69	0.56
1:E:3455:GLU:O	1:E:3459:VAL:HG23	2.06	0.56
1:G:765:GLN:NE2	1:G:1478:ASP:O	2.38	0.56
1:G:1225:PRO:HG2	1:G:1228:ILE:HB	1.87	0.56
1:G:3326:ASN:HB3	1:G:3329:ILE:HB	1.86	0.56
1:J:224:HIS:HD2	1:J:388:LEU:HB3	1.70	0.56
1:J:765:GLN:NE2	1:J:1478:ASP:O	2.38	0.56
1:J:1225:PRO:HG2	1:J:1228:ILE:HB	1.87	0.56
1:J:2418:LEU:O	1:J:2422:ILE:HG12	2.04	0.56
1:J:3311:HIS:O	1:J:3315:LEU:HG	2.06	0.56
1:J:3326:ASN:HB3	1:J:3329:ILE:HB	1.86	0.56
1:J:3455:GLU:O	1:J:3459:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4001:MET:HE1	1:J:4057:MET:HB3	1.88	0.56
1:J:4053:SER:O	1:J:4057:MET:HG3	2.05	0.56
3:C:11:LEU:HG	3:C:124:THR:HB	1.87	0.56
1:B:4001:MET:HE1	1:B:4057:MET:HB3	1.88	0.56
1:G:2470:ILE:HG12	1:G:2502:MET:HE3	1.88	0.56
1:G:3205:PHE:HE2	1:G:3243:ILE:HG21	1.69	0.56
1:J:3169:LEU:HD13	1:J:3197:LEU:HD11	1.88	0.56
3:C:104:TYR:HE1	3:C:106:PRO:HG3	1.71	0.56
1:B:16:THR:HG22	1:B:99:ARG:H	1.71	0.56
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.71	0.56
1:B:3051:ARG:HH21	1:B:3098:SER:HB3	1.69	0.56
1:B:3971:GLY:O	1:B:3973:CYS:N	2.39	0.56
1:E:2175:GLU:HG3	1:E:2228:MET:HB2	1.86	0.56
1:E:2476:ILE:HD11	1:E:2536:LEU:HD21	1.86	0.56
1:E:2500:ALA:HB2	1:E:2553:TYR:HD1	1.71	0.56
1:G:2490:MET:HA	1:G:2490:MET:HE3	1.88	0.56
1:G:2500:ALA:HB2	1:G:2553:TYR:HD1	1.71	0.56
1:G:3466:ASN:HA	1:G:3469:PHE:CD2	2.41	0.56
1:G:3555:ASN:O	1:G:3558:HIS:ND1	2.37	0.56
1:G:3709:ALA:HB2	1:G:3782:MET:HE2	1.86	0.56
1:J:2755:ILE:HG23	1:J:2813:LEU:HD13	1.87	0.56
1:J:3537:LYS:O	1:J:3540:TYR:HB2	2.06	0.56
1:B:4056:GLU:HG2	1:B:4166:LEU:HD13	1.86	0.56
1:E:20:VAL:HG11	1:E:202:MET:HG3	1.88	0.56
1:E:23:GLN:HG2	1:E:36:CYS:HB3	1.86	0.56
1:E:377:ILE:HB	1:E:379:HIS:CE1	2.40	0.56
1:E:2737:PRO:HD2	1:E:2891:LYS:HD3	1.88	0.56
1:E:3534:MET:SD	1:E:3537:LYS:NZ	2.75	0.56
1:E:3537:LYS:O	1:E:3540:TYR:HB2	2.06	0.56
1:E:4001:MET:HE1	1:E:4057:MET:HB3	1.88	0.56
1:G:3311:HIS:O	1:G:3315:LEU:HG	2.06	0.56
1:J:877:ASN:ND2	1:J:1045:THR:HG21	2.20	0.56
1:J:2470:ILE:HG12	1:J:2502:MET:HE3	1.88	0.56
1:J:2591:ARG:HH12	1:J:2637:ALA:HA	1.69	0.56
1:B:2755:ILE:HG23	1:B:2813:LEU:HD13	1.87	0.56
1:E:2382:GLU:HA	1:E:2385:ARG:HE	1.70	0.56
1:E:3466:ASN:HA	1:E:3469:PHE:CD2	2.41	0.56
1:G:16:THR:HG22	1:G:99:ARG:H	1.71	0.56
1:G:3537:LYS:O	1:G:3540:TYR:HB2	2.06	0.56
3:K:30:SER:HB3	3:K:99:ARG:HB3	1.88	0.56
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3450:ASN:HA	1:B:3453:ARG:HB2	1.87	0.56
1:B:3466:ASN:HA	1:B:3469:PHE:CD2	2.41	0.56
1:B:3534:MET:SD	1:B:3537:LYS:NZ	2.75	0.56
1:E:2470:ILE:HG12	1:E:2502:MET:HE3	1.88	0.56
1:E:2755:ILE:HG23	1:E:2813:LEU:HD13	1.87	0.56
1:G:3757:GLU:O	1:G:3761:GLN:HG2	2.06	0.56
1:G:4001:MET:HE1	1:G:4057:MET:HB3	1.88	0.56
1:J:20:VAL:HG11	1:J:202:MET:HG3	1.88	0.56
1:J:3466:ASN:HA	1:J:3469:PHE:CD2	2.41	0.56
1:B:765:GLN:NE2	1:B:1478:ASP:O	2.38	0.56
1:B:877:ASN:ND2	1:B:1045:THR:HG21	2.20	0.56
1:B:2534:ALA:HB1	1:B:2588:ARG:HD2	1.86	0.56
1:G:1011:GLN:OE1	1:G:1020:ARG:NH2	2.35	0.56
1:G:3003:LEU:HB2	1:G:3004:PRO:HD3	1.88	0.56
1:G:4056:GLU:HG2	1:G:4166:LEU:HD13	1.86	0.56
1:J:3355:HIS:O	1:J:3359:ILE:HD12	2.06	0.56
1:J:3450:ASN:HA	1:J:3453:ARG:HB2	1.87	0.56
1:J:3757:GLU:O	1:J:3761:GLN:HG2	2.06	0.56
1:J:3971:GLY:O	1:J:3973:CYS:N	2.39	0.56
1:B:2470:ILE:HG12	1:B:2502:MET:HE3	1.88	0.56
1:E:16:THR:HG22	1:E:99:ARG:H	1.71	0.56
1:E:3311:HIS:O	1:E:3315:LEU:HG	2.06	0.56
1:E:3450:ASN:HA	1:E:3453:ARG:HB2	1.87	0.56
1:G:2271:THR:HG23	1:G:2274:ASP:H	1.71	0.56
1:G:3110:LEU:HD11	1:G:3129:LEU:HD22	1.87	0.56
1:G:3455:GLU:O	1:G:3459:VAL:HG23	2.06	0.56
1:B:1023:PRO:HD2	1:B:1026:LEU:HD12	1.87	0.55
1:E:358:THR:HG21	1:E:382:GLY:HA2	1.88	0.55
1:E:2653:LYS:HB2	1:E:2661:TRP:NE1	2.21	0.55
1:J:2653:LYS:HB2	1:J:2661:TRP:NE1	2.21	0.55
1:J:3040:THR:HA	1:J:3043:PHE:CD1	2.41	0.55
3:K:11:LEU:HG	3:K:124:THR:HB	1.87	0.55
1:B:2175:GLU:HG3	1:B:2228:MET:HB2	1.86	0.55
1:B:3040:THR:HA	1:B:3043:PHE:CD1	2.41	0.55
1:B:3455:GLU:O	1:B:3459:VAL:HG23	2.06	0.55
1:J:358:THR:HG21	1:J:382:GLY:HA2	1.88	0.55
1:J:2178:MET:HE2	1:J:2210:VAL:HG11	1.88	0.55
1:J:2500:ALA:HB2	1:J:2553:TYR:HD1	1.71	0.55
1:J:3003:LEU:HB2	1:J:3004:PRO:HD3	1.88	0.55
1:J:3219:TYR:HD1	1:J:3227:ARG:HD2	1.71	0.55
3:M:11:LEU:HG	3:M:124:THR:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:TYR:HB3	1:B:373:LYS:HA	1.88	0.55
1:B:462:GLU:HG2	1:B:3710:LEU:HD13	1.88	0.55
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.88	0.55
1:B:3311:HIS:O	1:B:3315:LEU:HG	2.06	0.55
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.89	0.55
1:E:1652:GLU:OE1	1:E:1656:ARG:NH1	2.40	0.55
1:E:2630:VAL:HG12	1:E:2682:ILE:HD11	1.88	0.55
1:E:3355:HIS:O	1:E:3359:ILE:HD12	2.06	0.55
1:G:3040:THR:HA	1:G:3043:PHE:CD1	2.41	0.55
1:G:3355:HIS:O	1:G:3359:ILE:HD12	2.06	0.55
1:J:462:GLU:HG2	1:J:3710:LEU:HD13	1.88	0.55
1:J:733:PRO:HG2	1:J:762:CYS:HB3	1.88	0.55
1:J:2182:ILE:O	1:J:2186:MET:HG2	2.05	0.55
1:E:1023:PRO:HD2	1:E:1026:LEU:HD12	1.87	0.55
1:G:358:THR:HG21	1:G:382:GLY:HA2	1.88	0.55
1:G:733:PRO:HG2	1:G:762:CYS:HB3	1.88	0.55
1:G:3971:GLY:O	1:G:3973:CYS:N	2.39	0.55
1:J:1652:GLU:OE1	1:J:1656:ARG:NH1	2.40	0.55
1:J:3040:THR:HA	1:J:3043:PHE:HD1	1.72	0.55
3:C:101:PRO:HG2	3:C:104:TYR:CE2	2.42	0.55
1:B:308:HIS:O	1:B:312:THR:OG1	2.24	0.55
1:B:909:ASN:HB2	1:B:964:GLY:H	1.71	0.55
1:B:2737:PRO:HD2	1:B:2891:LYS:HD3	1.88	0.55
1:B:3040:THR:HA	1:B:3043:PHE:HD1	1.72	0.55
1:B:3537:LYS:O	1:B:3540:TYR:HB2	2.06	0.55
1:B:3757:GLU:O	1:B:3761:GLN:HG2	2.06	0.55
1:E:2271:THR:HG23	1:E:2274:ASP:H	1.71	0.55
1:E:2368:LEU:HD11	1:E:2376:LEU:HD22	1.88	0.55
1:E:3335:MET:HE2	1:E:3335:MET:HA	1.89	0.55
1:G:462:GLU:HG2	1:G:3710:LEU:HD13	1.88	0.55
1:J:2736:ASP:OD1	1:J:2736:ASP:N	2.36	0.55
1:B:2476:ILE:HD12	1:B:2477:PRO:HD2	1.89	0.55
1:B:2490:MET:HE3	1:B:2490:MET:HA	1.88	0.55
1:B:2653:LYS:HB2	1:B:2661:TRP:NE1	2.21	0.55
1:E:3040:THR:HA	1:E:3043:PHE:CD1	2.41	0.55
1:E:3110:LEU:HD11	1:E:3129:LEU:HD22	1.87	0.55
1:G:20:VAL:HG11	1:G:202:MET:HG3	1.88	0.55
1:G:3169:LEU:HD13	1:G:3197:LEU:HD11	1.87	0.55
1:J:909:ASN:HB2	1:J:964:GLY:H	1.71	0.55
3:F:11:LEU:HG	3:F:124:THR:HB	1.87	0.55
1:E:2490:MET:HA	1:E:2490:MET:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3219:TYR:HD1	1:E:3227:ARG:HD2	1.71	0.55
1:G:874:LEU:HA	1:G:877:ASN:ND2	2.22	0.55
1:G:2881:ASN:HA	1:G:2884:ASN:HD21	1.72	0.55
1:J:2737:PRO:HD2	1:J:2891:LYS:HD3	1.88	0.55
1:J:3467:MET:O	1:J:3471:THR:HG22	2.07	0.55
1:B:20:VAL:HG11	1:B:202:MET:HG3	1.88	0.55
1:B:3110:LEU:HD11	1:B:3129:LEU:HD22	1.87	0.55
1:E:3040:THR:HA	1:E:3043:PHE:HD1	1.72	0.55
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.88	0.55
1:G:3040:THR:HA	1:G:3043:PHE:HD1	1.72	0.55
1:J:2630:VAL:HG12	1:J:2682:ILE:HD11	1.88	0.55
1:B:3948:LYS:NZ	1:B:4008:SER:O	2.40	0.55
1:B:4823:LEU:HD13	1:B:4826:ILE:HD11	1.88	0.55
1:E:2476:ILE:HD12	1:E:2477:PRO:HD2	1.89	0.55
1:J:2490:MET:HE3	1:J:2490:MET:HA	1.88	0.55
1:J:3335:MET:HA	1:J:3335:MET:HE2	1.89	0.55
1:J:3948:LYS:NZ	1:J:4008:SER:O	2.40	0.55
1:B:618:GLN:OE1	1:B:1678:ASN:ND2	2.38	0.55
1:E:2587:TYR:CZ	1:E:2591:ARG:HD2	2.42	0.55
1:E:3003:LEU:HB2	1:E:3004:PRO:HD3	1.88	0.55
1:G:2368:LEU:HD11	1:G:2376:LEU:HD22	1.88	0.55
1:G:3534:MET:SD	1:G:3537:LYS:NZ	2.75	0.55
1:J:308:HIS:O	1:J:312:THR:OG1	2.24	0.55
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.89	0.54
1:B:900:ASN:ND2	3:C:61:ASP:OD1	2.37	0.54
1:B:2960:LEU:HB3	1:B:3038:MET:HE3	1.89	0.54
1:B:3355:HIS:O	1:B:3359:ILE:HD12	2.06	0.54
1:E:3467:MET:O	1:E:3471:THR:HG22	2.07	0.54
1:J:3110:LEU:HD11	1:J:3129:LEU:HD22	1.87	0.54
1:J:4823:LEU:HD13	1:J:4826:ILE:HD11	1.88	0.54
3:F:30:SER:HB3	3:F:99:ARG:HB3	1.89	0.54
1:B:733:PRO:HG2	1:B:762:CYS:HB3	1.88	0.54
1:B:874:LEU:HA	1:B:877:ASN:ND2	2.22	0.54
1:E:909:ASN:HB2	1:E:964:GLY:H	1.71	0.54
1:E:2178:MET:HE2	1:E:2210:VAL:HG11	1.88	0.54
1:G:2630:VAL:HG12	1:G:2682:ILE:HD11	1.88	0.54
1:G:2653:LYS:HB2	1:G:2661:TRP:NE1	2.21	0.54
1:G:3219:TYR:HD1	1:G:3227:ARG:HD2	1.72	0.54
1:B:2765:LYS:HZ3	1:B:2857:PRO:HG2	1.71	0.54
1:B:3313:ASN:HB3	1:B:3353:LEU:HD13	1.90	0.54
1:E:3169:LEU:HD13	1:E:3197:LEU:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3971:GLY:O	1:E:3973:CYS:N	2.39	0.54
1:G:308:HIS:O	1:G:312:THR:OG1	2.24	0.54
1:G:909:ASN:HB2	1:G:964:GLY:H	1.71	0.54
1:B:358:THR:HG21	1:B:382:GLY:HA2	1.88	0.54
1:B:2271:THR:HG23	1:B:2274:ASP:H	1.71	0.54
1:B:3049:LEU:HB3	1:B:3057:PHE:HE1	1.73	0.54
1:B:3335:MET:HA	1:B:3335:MET:HE2	1.88	0.54
1:E:622:THR:HG23	1:E:626:LEU:HD12	1.89	0.54
1:E:2572:THR:HB	1:E:2575:ARG:HB2	1.90	0.54
1:G:3467:MET:O	1:G:3471:THR:HG22	2.07	0.54
1:J:16:THR:HG22	1:J:99:ARG:H	1.71	0.54
1:J:4780:PHE:HA	1:J:4783:ILE:HG22	1.90	0.54
3:F:100:VAL:HG13	3:F:104:TYR:O	2.07	0.54
1:B:2587:TYR:CZ	1:B:2591:ARG:HD2	2.42	0.54
1:B:2881:ASN:HA	1:B:2884:ASN:HD21	1.72	0.54
1:E:359:TYR:CE1	1:E:385:ASP:HB2	2.43	0.54
1:E:874:LEU:HA	1:E:877:ASN:ND2	2.22	0.54
1:E:1780:PRO:O	2:D:42:ARG:NH1	2.40	0.54
1:E:3757:GLU:O	1:E:3761:GLN:HG2	2.06	0.54
1:G:275:ARG:HB2	1:G:278:GLN:HB2	1.89	0.54
1:G:3948:LYS:NZ	1:G:4008:SER:O	2.40	0.54
1:J:2587:TYR:CZ	1:J:2591:ARG:HD2	2.42	0.54
1:J:2881:ASN:HA	1:J:2884:ASN:HD21	1.72	0.54
1:B:2178:MET:HE2	1:B:2210:VAL:HG11	1.88	0.54
1:B:2630:VAL:HG12	1:B:2682:ILE:HD11	1.88	0.54
1:B:3139:VAL:O	1:B:3143:LEU:HG	2.07	0.54
1:B:3809:ASN:OD1	1:B:3812:VAL:HG22	2.08	0.54
1:E:3948:LYS:NZ	1:E:4008:SER:O	2.40	0.54
1:G:2178:MET:HE2	1:G:2210:VAL:HG11	1.88	0.54
1:G:2587:TYR:CZ	1:G:2591:ARG:HD2	2.42	0.54
1:G:2737:PRO:HD2	1:G:2891:LYS:HD3	1.88	0.54
1:G:3313:ASN:HB3	1:G:3353:LEU:HD13	1.90	0.54
1:G:4780:PHE:HA	1:G:4783:ILE:HG22	1.90	0.54
1:G:4823:LEU:HD13	1:G:4826:ILE:HD11	1.88	0.54
1:J:275:ARG:HB2	1:J:278:GLN:HB2	1.89	0.54
1:J:2271:THR:HG23	1:J:2274:ASP:H	1.71	0.54
1:J:2476:ILE:HD12	1:J:2477:PRO:HD2	1.89	0.54
3:K:100:VAL:HG13	3:K:104:TYR:O	2.07	0.54
1:B:1652:GLU:OE1	1:B:1656:ARG:NH1	2.40	0.54
1:B:3467:MET:O	1:B:3471:THR:HG22	2.07	0.54
1:E:2881:ASN:HA	1:E:2884:ASN:HD21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3809:ASN:OD1	1:E:3812:VAL:HG22	2.08	0.54
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	2.08	0.54
1:G:1652:GLU:OE1	1:G:1656:ARG:NH1	2.40	0.54
1:G:3049:LEU:HB3	1:G:3057:PHE:HE1	1.73	0.54
1:G:3285:TRP:HE1	1:G:3306:ALA:HB3	1.73	0.54
1:J:924:MET:HE1	3:K:106:PRO:HB2	1.89	0.54
1:J:2368:LEU:HD11	1:J:2376:LEU:HD22	1.88	0.54
3:C:100:VAL:HG13	3:C:104:TYR:O	2.07	0.54
1:B:2710:LEU:HD21	1:B:2955:PHE:CE2	2.43	0.54
1:B:3219:TYR:HD1	1:B:3227:ARG:HD2	1.72	0.54
1:B:4780:PHE:HA	1:B:4783:ILE:HG22	1.90	0.54
1:E:3230:LEU:HD23	1:E:3230:LEU:H	1.73	0.54
1:E:3313:ASN:HB3	1:E:3353:LEU:HD13	1.90	0.54
1:E:4780:PHE:HA	1:E:4783:ILE:HG22	1.90	0.54
1:G:2960:LEU:HB3	1:G:3038:MET:HE3	1.89	0.54
1:J:3281:LEU:HD12	1:J:3341:PHE:CD1	2.43	0.54
1:J:3566:SER:HB3	1:J:3569:LEU:HD23	1.89	0.54
1:E:3566:SER:HB3	1:E:3569:LEU:HD23	1.89	0.54
1:E:4693:GLY:O	1:E:4700:GLN:NE2	2.41	0.54
1:G:4134:GLU:HB3	1:G:4135:PRO:HD3	1.90	0.54
1:G:4693:GLY:O	1:G:4700:GLN:NE2	2.41	0.54
1:J:874:LEU:HA	1:J:877:ASN:ND2	2.22	0.54
1:J:1477:GLY:HA2	1:J:1483:VAL:HA	1.89	0.54
1:J:2325:PRO:O	1:J:2329:GLU:HG2	2.08	0.54
1:J:2960:LEU:HB3	1:J:3038:MET:HE3	1.89	0.54
1:J:3049:LEU:HB3	1:J:3057:PHE:HE1	1.73	0.54
1:B:275:ARG:HB2	1:B:278:GLN:HB2	1.89	0.54
1:B:3230:LEU:HD23	1:B:3230:LEU:H	1.73	0.54
1:B:3566:SER:HB3	1:B:3569:LEU:HD23	1.89	0.54
1:E:3139:VAL:O	1:E:3143:LEU:HG	2.07	0.54
1:E:4823:LEU:HD13	1:E:4826:ILE:HD11	1.88	0.54
1:G:618:GLN:OE1	1:G:1678:ASN:ND2	2.38	0.54
1:G:2765:LYS:HZ2	1:G:2860:PRO:HA	1.71	0.54
1:G:3809:ASN:OD1	1:G:3812:VAL:HG22	2.08	0.54
1:B:3579:LEU:HD12	1:B:3580:PRO:HD2	1.90	0.53
1:B:4693:GLY:O	1:B:4700:GLN:NE2	2.41	0.53
1:E:3579:LEU:HD12	1:E:3580:PRO:HD2	1.90	0.53
1:G:3566:SER:HB3	1:G:3569:LEU:HD23	1.89	0.53
1:J:2710:LEU:HD21	1:J:2955:PHE:CE2	2.43	0.53
1:B:2368:LEU:HD11	1:B:2376:LEU:HD22	1.88	0.53
1:E:3049:LEU:HB3	1:E:3057:PHE:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3139:VAL:O	1:G:3143:LEU:HG	2.07	0.53
1:G:3230:LEU:HD23	1:G:3230:LEU:H	1.73	0.53
3:K:101:PRO:HG2	3:K:104:TYR:CE2	2.43	0.53
1:E:275:ARG:HB2	1:E:278:GLN:HB2	1.89	0.53
1:E:2011:HIS:O	1:E:2011:HIS:ND1	2.41	0.53
1:E:2325:PRO:O	1:E:2329:GLU:HG2	2.08	0.53
1:G:231:LEU:O	1:G:260:TRP:NE1	2.41	0.53
1:G:622:THR:HG23	1:G:626:LEU:HD12	1.89	0.53
1:G:2710:LEU:HD21	1:G:2955:PHE:CE2	2.43	0.53
3:K:13:GLN:OE1	3:K:13:GLN:N	2.37	0.53
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.09	0.53
1:E:733:PRO:HG2	1:E:762:CYS:HB3	1.88	0.53
1:E:2575:ARG:HH21	1:E:2578:MET:HE3	1.74	0.53
1:E:3281:LEU:HD12	1:E:3341:PHE:CD1	2.43	0.53
1:G:2476:ILE:HD12	1:G:2477:PRO:HD2	1.89	0.53
1:G:2572:THR:HB	1:G:2575:ARG:HB2	1.90	0.53
1:J:622:THR:HG23	1:J:626:LEU:HD12	1.89	0.53
1:J:4693:GLY:O	1:J:4700:GLN:NE2	2.41	0.53
1:B:3201:MET:HA	1:B:3201:MET:HE2	1.90	0.53
1:B:4090:LYS:HZ1	1:B:4115:SER:HB2	1.73	0.53
1:B:4848:VAL:HG11	1:B:4887:MET:HG2	1.91	0.53
1:G:3281:LEU:HD12	1:G:3341:PHE:CD1	2.43	0.53
1:G:3368:ARG:HH21	1:G:3401:LEU:HD23	1.74	0.53
1:G:3768:SER:HA	1:G:3771:HIS:CE1	2.44	0.53
3:F:101:PRO:HG2	3:F:104:TYR:CE2	2.43	0.53
1:B:2572:THR:HB	1:B:2575:ARG:HB2	1.90	0.53
1:E:1676:LEU:HD22	1:E:2167:ILE:HD12	1.90	0.53
1:E:2710:LEU:HD21	1:E:2955:PHE:CE2	2.43	0.53
1:G:2238:TYR:O	1:G:2242:ILE:HG12	2.09	0.53
1:J:2572:THR:HB	1:J:2575:ARG:HB2	1.89	0.53
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.24	0.53
1:E:3285:TRP:HE1	1:E:3306:ALA:HB3	1.73	0.53
1:E:3411:LEU:H	1:E:3411:LEU:HD12	1.74	0.53
1:G:3335:MET:HA	1:G:3335:MET:HE2	1.89	0.53
1:G:4848:VAL:HG11	1:G:4887:MET:HG2	1.91	0.53
1:J:2881:ASN:HA	1:J:2884:ASN:ND2	2.24	0.53
1:J:3230:LEU:HD23	1:J:3230:LEU:H	1.73	0.53
1:J:3313:ASN:HB3	1:J:3353:LEU:HD13	1.90	0.53
2:A:87:HIS:HD2	2:A:91:ILE:HD12	1.74	0.53
3:C:13:GLN:OE1	3:C:13:GLN:N	2.37	0.53
1:B:3285:TRP:HE1	1:B:3306:ALA:HB3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:374:LYS:O	1:G:375:LYS:C	2.51	0.53
1:G:1676:LEU:HD22	1:G:2167:ILE:HD12	1.90	0.53
1:J:2238:TYR:O	1:J:2242:ILE:HG12	2.09	0.53
1:J:3139:VAL:O	1:J:3143:LEU:HG	2.07	0.53
1:B:3368:ARG:HH21	1:B:3401:LEU:HD23	1.74	0.53
1:B:3768:SER:HA	1:B:3771:HIS:CE1	2.44	0.53
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	1.90	0.53
1:E:308:HIS:O	1:E:312:THR:OG1	2.24	0.53
1:E:2765:LYS:HZ3	1:E:2857:PRO:HG2	1.73	0.53
1:G:2325:PRO:O	1:G:2329:GLU:HG2	2.08	0.53
1:G:3201:MET:HE2	1:G:3201:MET:HA	1.90	0.53
1:J:3411:LEU:H	1:J:3411:LEU:HD12	1.74	0.53
1:J:3555:ASN:O	1:J:3558:HIS:ND1	2.37	0.53
1:J:4134:GLU:HB3	1:J:4135:PRO:HD3	1.90	0.53
3:M:100:VAL:HG13	3:M:104:TYR:O	2.09	0.53
1:B:231:LEU:O	1:B:260:TRP:NE1	2.41	0.53
1:E:1286:MET:HE2	1:E:1464:PHE:HB3	1.91	0.53
1:J:3287:ARG:HG2	1:J:3294:PRO:HD2	1.90	0.53
2:D:87:HIS:HD2	2:D:91:ILE:HD12	1.74	0.53
2:H:87:HIS:HD2	2:H:91:ILE:HD12	1.74	0.53
3:F:105:ASN:ND2	3:F:107:TRP:HD1	2.06	0.53
1:B:162:LYS:NZ	1:G:3987:ASP:OD2	2.32	0.52
1:B:369:LEU:HB2	1:B:371:VAL:HG23	1.90	0.52
1:E:2238:TYR:O	1:E:2242:ILE:HG12	2.09	0.52
1:E:2881:ASN:HA	1:E:2884:ASN:ND2	2.24	0.52
1:E:3768:SER:HA	1:E:3771:HIS:CE1	2.44	0.52
1:G:1286:MET:HE2	1:G:1464:PHE:HB3	1.91	0.52
1:G:2573:GLU:OE1	1:G:2573:GLU:N	2.42	0.52
1:J:1286:MET:HE2	1:J:1464:PHE:HB3	1.91	0.52
1:J:2206:THR:O	1:J:2210:VAL:HG23	2.09	0.52
1:J:3201:MET:HA	1:J:3201:MET:HE2	1.90	0.52
1:J:3579:LEU:HD12	1:J:3580:PRO:HD2	1.90	0.52
3:M:104:TYR:HE1	3:M:106:PRO:HG3	1.74	0.52
1:B:3281:LEU:HD12	1:B:3341:PHE:CD1	2.43	0.52
1:E:979:PRO:O	1:E:983:THR:HG23	2.10	0.52
1:E:3290:GLU:HG3	1:E:3307:VAL:HG22	1.92	0.52
1:E:3691:GLU:HG2	1:E:3692:GLU:HG3	1.92	0.52
1:E:4848:VAL:HG11	1:E:4887:MET:HG2	1.91	0.52
1:G:196:MET:HE2	1:G:196:MET:N	2.25	0.52
1:G:2206:THR:O	1:G:2210:VAL:HG23	2.09	0.52
1:G:3411:LEU:H	1:G:3411:LEU:HD12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3290:GLU:HG3	1:J:3307:VAL:HG22	1.92	0.52
1:J:3369:ALA:HA	1:J:3401:LEU:HD11	1.91	0.52
1:J:3809:ASN:OD1	1:J:3812:VAL:HG22	2.08	0.52
1:J:3893:GLU:HA	1:J:3967:GLU:OE2	2.08	0.52
1:J:4848:VAL:HG11	1:J:4887:MET:HG2	1.91	0.52
1:B:196:MET:H	1:B:196:MET:HE2	1.74	0.52
1:B:1286:MET:HE2	1:B:1464:PHE:HB3	1.91	0.52
1:B:3144:PHE:CD2	1:B:3197:LEU:HB3	2.44	0.52
1:B:3287:ARG:HG2	1:B:3294:PRO:HD2	1.90	0.52
1:E:196:MET:HE2	1:E:196:MET:N	2.25	0.52
1:E:411:TYR:HB2	1:E:486:LEU:HD21	1.92	0.52
1:E:2206:THR:O	1:E:2210:VAL:HG23	2.09	0.52
1:E:2960:LEU:HB3	1:E:3038:MET:HE3	1.89	0.52
1:E:2968:ASP:O	1:E:2971:GLN:HG2	2.10	0.52
1:G:2575:ARG:HH21	1:G:2578:MET:HE3	1.73	0.52
1:J:196:MET:H	1:J:196:MET:HE2	1.74	0.52
1:J:2011:HIS:ND1	1:J:2011:HIS:O	2.41	0.52
1:J:3310:ASP:HA	1:J:3313:ASN:HD21	1.75	0.52
1:J:4069:LYS:HD2	1:J:4133:GLN:HG3	1.91	0.52
2:I:87:HIS:HD2	2:I:91:ILE:HD12	1.74	0.52
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.09	0.52
1:B:2325:PRO:O	1:B:2329:GLU:HG2	2.08	0.52
1:B:3442:PHE:CD2	1:B:3514:LEU:HD11	2.44	0.52
1:E:924:MET:HE1	3:F:106:PRO:HB2	1.90	0.52
1:G:3144:PHE:CD2	1:G:3197:LEU:HB3	2.45	0.52
1:J:374:LYS:O	1:J:375:LYS:C	2.51	0.52
1:J:1623:ARG:NE	1:J:1623:ARG:O	2.43	0.52
1:J:3768:SER:HA	1:J:3771:HIS:CE1	2.44	0.52
1:J:3959:LYS:HG3	1:J:4022:ASP:OD2	2.10	0.52
1:B:3411:LEU:H	1:B:3411:LEU:HD12	1.74	0.52
1:B:3416:VAL:HB	1:B:3516:LYS:HZ3	1.73	0.52
1:E:1623:ARG:NE	1:E:1623:ARG:O	2.43	0.52
1:E:3144:PHE:CD2	1:E:3197:LEU:HB3	2.44	0.52
1:J:2573:GLU:OE1	1:J:2573:GLU:N	2.42	0.52
1:J:3368:ARG:HH21	1:J:3401:LEU:HD23	1.74	0.52
1:B:196:MET:HE2	1:B:196:MET:N	2.25	0.52
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	1.90	0.52
1:B:2710:LEU:HD21	1:B:2955:PHE:HE2	1.75	0.52
1:B:3310:ASP:HA	1:B:3313:ASN:HD21	1.75	0.52
1:B:3691:GLU:HG2	1:B:3692:GLU:HG3	1.92	0.52
1:E:196:MET:HE2	1:E:196:MET:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:595:ARG:HH22	1:E:1642:PRO:HD2	1.75	0.52
1:E:2573:GLU:OE1	1:E:2573:GLU:N	2.42	0.52
1:E:3201:MET:HE2	1:E:3201:MET:HA	1.90	0.52
1:E:3310:ASP:HA	1:E:3313:ASN:HD21	1.75	0.52
1:E:3959:LYS:HG3	1:E:4022:ASP:OD2	2.10	0.52
1:E:4069:LYS:HD2	1:E:4133:GLN:HG3	1.91	0.52
1:G:2011:HIS:O	1:G:2011:HIS:ND1	2.41	0.52
1:G:2881:ASN:HA	1:G:2884:ASN:ND2	2.24	0.52
1:G:3442:PHE:CD2	1:G:3514:LEU:HD11	2.44	0.52
1:J:979:PRO:O	1:J:983:THR:HG23	2.10	0.52
1:J:2871:LEU:HG	1:J:2927:LEU:HD11	1.91	0.52
1:J:4670:ILE:O	1:J:4674:GLU:HG3	2.10	0.52
1:B:2575:ARG:HH21	1:B:2578:MET:HE3	1.73	0.52
1:G:979:PRO:O	1:G:983:THR:HG23	2.09	0.52
1:G:3310:ASP:HA	1:G:3313:ASN:HD21	1.75	0.52
1:J:1676:LEU:HD22	1:J:2167:ILE:HD12	1.90	0.52
1:J:3144:PHE:CD2	1:J:3197:LEU:HB3	2.45	0.52
1:J:3285:TRP:HE1	1:J:3306:ALA:HB3	1.73	0.52
1:J:3442:PHE:CD2	1:J:3514:LEU:HD11	2.44	0.52
1:J:3691:GLU:HG2	1:J:3692:GLU:HG3	1.92	0.52
1:E:3555:ASN:O	1:E:3558:HIS:ND1	2.37	0.52
1:E:4134:GLU:HB3	1:E:4135:PRO:HD3	1.90	0.52
1:G:1958:LEU:HD23	1:G:2138:LEU:HD21	1.92	0.52
1:G:3287:ARG:HG2	1:G:3294:PRO:HD2	1.90	0.52
1:G:3579:LEU:HD12	1:G:3580:PRO:HD2	1.90	0.52
2:I:68:LEU:HD13	2:I:106:LEU:HB2	1.92	0.52
3:C:14:ALA:HA	3:C:85:LEU:HB2	1.92	0.52
3:F:14:ALA:HA	3:F:85:LEU:HB2	1.92	0.52
3:K:14:ALA:HA	3:K:85:LEU:HB2	1.92	0.52
1:B:291:LEU:HD11	1:B:299:LEU:HD12	1.92	0.52
1:B:1958:LEU:HD23	1:B:2138:LEU:HD21	1.92	0.52
1:E:1263:THR:OG1	1:E:1266:THR:OG1	2.26	0.52
1:E:3293:PRO:HD2	1:E:3296:LEU:HD22	1.92	0.52
1:E:3442:PHE:CD2	1:E:3514:LEU:HD11	2.44	0.52
1:G:196:MET:HE2	1:G:196:MET:H	1.74	0.52
1:G:2710:LEU:HD21	1:G:2955:PHE:HE2	1.75	0.52
1:G:2968:ASP:O	1:G:2971:GLN:HG2	2.10	0.52
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	2.08	0.52
1:J:3137:LEU:HB3	1:J:3138:PRO:HD3	1.92	0.52
3:M:14:ALA:HA	3:M:85:LEU:HB2	1.92	0.52
1:B:411:TYR:HB2	1:B:486:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:867:LEU:HA	1:B:871:ARG:HG2	1.92	0.52
1:B:2573:GLU:OE1	1:B:2573:GLU:N	2.42	0.52
1:B:2871:LEU:HG	1:B:2927:LEU:HD11	1.91	0.52
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.92	0.52
1:B:3290:GLU:HG3	1:B:3307:VAL:HG22	1.92	0.52
1:E:3287:ARG:HG2	1:E:3294:PRO:HD2	1.90	0.52
1:G:2751:LEU:O	1:G:2755:ILE:HG12	2.10	0.52
1:G:4670:ILE:O	1:G:4674:GLU:HG3	2.10	0.52
1:J:595:ARG:HH22	1:J:1642:PRO:HD2	1.75	0.52
1:B:881:LEU:O	1:B:885:THR:HG23	2.10	0.51
1:B:2968:ASP:O	1:B:2971:GLN:HG2	2.10	0.51
1:E:3368:ARG:HH21	1:E:3401:LEU:HD23	1.74	0.51
1:E:4137:ARG:NH2	1:E:4196:GLU:OE2	2.43	0.51
1:E:5013:MET:HG2	1:E:5018:CYS:HB2	1.92	0.51
1:G:595:ARG:HH22	1:G:1642:PRO:HD2	1.75	0.51
1:G:3369:ALA:HA	1:G:3401:LEU:HD11	1.91	0.51
1:J:510:GLU:OE1	1:J:510:GLU:N	2.43	0.51
1:J:2575:ARG:HH21	1:J:2578:MET:HE3	1.73	0.51
1:J:2751:LEU:O	1:J:2755:ILE:HG12	2.10	0.51
2:A:68:LEU:HD13	2:A:106:LEU:HB2	1.92	0.51
1:B:595:ARG:HH22	1:B:1642:PRO:HD2	1.75	0.51
1:B:858:THR:HG21	1:B:931:THR:HG23	1.92	0.51
1:B:924:MET:HE1	3:C:106:PRO:CB	2.40	0.51
1:B:3293:PRO:HD2	1:B:3296:LEU:HD22	1.92	0.51
1:E:291:LEU:HD11	1:E:299:LEU:HD12	1.92	0.51
1:G:1623:ARG:NE	1:G:1623:ARG:O	2.43	0.51
1:G:3037:GLU:HG2	1:G:3088:VAL:HG21	1.93	0.51
1:G:3290:GLU:HG3	1:G:3307:VAL:HG22	1.92	0.51
1:J:196:MET:HE2	1:J:196:MET:N	2.25	0.51
1:J:231:LEU:O	1:J:260:TRP:NE1	2.41	0.51
1:J:618:GLN:OE1	1:J:1678:ASN:ND2	2.38	0.51
1:J:2968:ASP:O	1:J:2971:GLN:HG2	2.10	0.51
3:C:39:GLN:OE1	3:C:45:ARG:NH2	2.39	0.51
1:B:3037:GLU:HG2	1:B:3088:VAL:HG21	1.93	0.51
1:B:3369:ALA:HA	1:B:3401:LEU:HD11	1.91	0.51
1:E:2767:ALA:HB2	1:E:2791:LEU:HD11	1.92	0.51
1:G:266:ARG:HH12	1:G:273:HIS:HE1	1.58	0.51
1:G:867:LEU:HA	1:G:871:ARG:HG2	1.92	0.51
1:G:3959:LYS:HG3	1:G:4022:ASP:OD2	2.10	0.51
1:J:881:LEU:O	1:J:885:THR:HG23	2.10	0.51
1:J:3539:ARG:HB3	1:J:3544:ASP:CG	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:30:LEU:HD23	2:H:36:PHE:HE2	1.75	0.51
2:H:68:LEU:HD13	2:H:106:LEU:HB2	1.92	0.51
3:M:69:ILE:HB	3:M:80:LEU:HD13	1.92	0.51
1:B:758:ARG:HH21	1:B:802:PHE:HB2	1.75	0.51
1:E:758:ARG:HH21	1:E:802:PHE:HB2	1.76	0.51
1:E:3043:PHE:HE2	1:E:3072:ALA:HA	1.76	0.51
1:E:3539:ARG:HB3	1:E:3544:ASP:CG	2.36	0.51
1:G:1000:ARG:NH2	3:M:115:ASP:O	2.43	0.51
1:J:858:THR:HG21	1:J:931:THR:HG23	1.92	0.51
2:A:30:LEU:HD23	2:A:36:PHE:HE2	1.75	0.51
1:B:979:PRO:O	1:B:983:THR:HG23	2.10	0.51
1:B:4069:LYS:HD2	1:B:4133:GLN:HG3	1.91	0.51
1:E:1958:LEU:HD23	1:E:2138:LEU:HD21	1.92	0.51
1:E:2871:LEU:HG	1:E:2927:LEU:HD11	1.91	0.51
1:E:3137:LEU:O	1:E:3141:THR:OG1	2.28	0.51
1:E:3369:ALA:HA	1:E:3401:LEU:HD11	1.91	0.51
1:G:881:LEU:O	1:G:885:THR:HG23	2.10	0.51
1:G:2767:ALA:HB2	1:G:2791:LEU:HD11	1.92	0.51
1:G:3691:GLU:HG2	1:G:3692:GLU:HG3	1.92	0.51
1:J:758:ARG:HH21	1:J:802:PHE:HB2	1.76	0.51
1:J:3293:PRO:HD2	1:J:3296:LEU:HD22	1.92	0.51
1:J:4761:PRO:HB2	1:J:4766:THR:HG21	1.92	0.51
1:B:1623:ARG:NE	1:B:1623:ARG:O	2.43	0.51
1:B:2767:ALA:HB2	1:B:2791:LEU:HD11	1.92	0.51
1:E:4761:PRO:HB2	1:E:4766:THR:HG21	1.92	0.51
1:G:411:TYR:HB2	1:G:486:LEU:HD21	1.92	0.51
1:G:4137:ARG:NH2	1:G:4196:GLU:OE2	2.43	0.51
1:J:266:ARG:HH12	1:J:273:HIS:HE1	1.58	0.51
1:J:3097:GLU:HA	1:J:3167:ARG:HH12	1.76	0.51
1:J:3529:ASP:O	1:J:3533:ILE:HG13	2.11	0.51
3:M:13:GLN:OE1	3:M:13:GLN:N	2.37	0.51
1:E:25:SER:HA	1:E:34:LYS:HA	1.93	0.51
1:E:881:LEU:O	1:E:885:THR:HG23	2.10	0.51
1:E:2751:LEU:O	1:E:2755:ILE:HG12	2.10	0.51
1:E:4936:ILE:HD11	1:J:4931:ILE:HG12	1.92	0.51
1:G:291:LEU:HD11	1:G:299:LEU:HD12	1.93	0.51
1:G:2496:PRO:HG3	1:G:2550:LEU:HD23	1.93	0.51
1:G:2871:LEU:HG	1:G:2927:LEU:HD11	1.91	0.51
1:G:3195:ALA:HA	1:G:3279:SER:HA	1.93	0.51
1:G:3539:ARG:HB3	1:G:3544:ASP:CG	2.35	0.51
1:J:25:SER:HA	1:J:34:LYS:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:291:LEU:HD11	1:J:299:LEU:HD12	1.93	0.51
1:J:411:TYR:HB2	1:J:486:LEU:HD21	1.92	0.51
1:J:3043:PHE:HE2	1:J:3072:ALA:HA	1.76	0.51
1:J:3163:VAL:O	1:J:3167:ARG:HG2	2.11	0.51
1:J:5013:MET:HG2	1:J:5018:CYS:HB2	1.92	0.51
3:K:105:ASN:ND2	3:K:107:TRP:HD1	2.06	0.51
1:B:1110:ARG:NH2	1:B:1112:ASP:OD1	2.44	0.51
1:B:1249:PRO:HG2	1:B:1252:HIS:HB2	1.92	0.51
1:B:1780:PRO:O	2:A:42:ARG:NH1	2.43	0.51
1:B:2686:LEU:HG	1:B:2997:PHE:CE2	2.46	0.51
1:B:3137:LEU:O	1:B:3141:THR:OG1	2.28	0.51
1:E:3753:PHE:HZ	1:E:4718:LYS:HD3	1.76	0.51
1:G:1249:PRO:HG2	1:G:1252:HIS:HB2	1.92	0.51
1:G:3222:LYS:HB3	1:G:3226:GLU:HB2	1.93	0.51
1:G:4069:LYS:HD2	1:G:4133:GLN:HG3	1.91	0.51
1:J:1249:PRO:HG2	1:J:1252:HIS:HB2	1.92	0.51
1:J:3030:HIS:HB2	1:J:3035:GLU:HG2	1.93	0.51
1:J:3446:SER:HA	1:J:3452:LYS:HE3	1.93	0.51
2:D:68:LEU:HD13	2:D:106:LEU:HB2	1.92	0.51
1:B:25:SER:HA	1:B:34:LYS:HA	1.93	0.51
1:B:1011:GLN:OE1	1:B:1020:ARG:NH2	2.35	0.51
1:B:2495:VAL:HG12	1:B:2497:ASP:H	1.76	0.51
1:B:3753:PHE:HZ	1:B:4718:LYS:HD3	1.76	0.51
1:B:4137:ARG:NH2	1:B:4196:GLU:OE2	2.43	0.51
1:E:1110:ARG:NH2	1:E:1112:ASP:OD1	2.44	0.51
1:E:4670:ILE:O	1:E:4674:GLU:HG3	2.10	0.51
1:G:25:SER:HA	1:G:34:LYS:HA	1.93	0.51
1:G:866:HIS:HB3	1:G:929:LEU:HD13	1.93	0.51
1:G:2110:TYR:HB2	1:G:3694:LYS:HA	1.93	0.51
1:G:3293:PRO:HD2	1:G:3296:LEU:HD22	1.92	0.51
1:G:3753:PHE:HZ	1:G:4718:LYS:HD3	1.76	0.51
1:J:1011:GLN:OE1	1:J:1020:ARG:NH2	2.35	0.51
1:J:2710:LEU:HD21	1:J:2955:PHE:HE2	1.75	0.51
1:J:4749:GLU:HG3	1:J:4753:HIS:CE1	2.46	0.51
3:F:69:ILE:HB	3:F:80:LEU:HD13	1.92	0.51
1:B:3893:GLU:HA	1:B:3967:GLU:OE2	2.11	0.51
1:E:2679:PHE:HB2	1:E:2706:ILE:HG21	1.93	0.51
1:E:3529:ASP:O	1:E:3533:ILE:HG13	2.11	0.51
1:E:4749:GLU:HG3	1:E:4753:HIS:CE1	2.46	0.51
1:G:758:ARG:HH21	1:G:802:PHE:HB2	1.75	0.51
1:G:858:THR:HG21	1:G:931:THR:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1110:ARG:NH2	1:G:1112:ASP:OD1	2.44	0.51
1:G:3030:HIS:HB2	1:G:3035:GLU:HG2	1.93	0.51
1:G:5013:MET:HG2	1:G:5018:CYS:HB2	1.92	0.51
1:J:1958:LEU:HD23	1:J:2138:LEU:HD21	1.92	0.51
1:J:2496:PRO:HG3	1:J:2550:LEU:HD23	1.93	0.51
3:M:2:VAL:HG22	3:M:27:SER:H	1.76	0.51
1:B:2679:PHE:HB2	1:B:2706:ILE:HG21	1.93	0.50
1:B:3539:ARG:HB3	1:B:3544:ASP:CG	2.36	0.50
1:E:858:THR:HG21	1:E:931:THR:HG23	1.93	0.50
1:J:2686:LEU:HG	1:J:2997:PHE:CE2	2.46	0.50
1:B:866:HIS:HB3	1:B:929:LEU:HD13	1.93	0.50
1:B:2751:LEU:O	1:B:2755:ILE:HG12	2.10	0.50
1:B:3097:GLU:HA	1:B:3167:ARG:HH12	1.76	0.50
1:B:4670:ILE:O	1:B:4674:GLU:HG3	2.10	0.50
1:E:618:GLN:OE1	1:E:1678:ASN:ND2	2.38	0.50
1:E:867:LEU:HA	1:E:871:ARG:HG2	1.92	0.50
1:E:2686:LEU:HG	1:E:2997:PHE:CE2	2.46	0.50
1:E:2710:LEU:HD21	1:E:2955:PHE:HE2	1.75	0.50
1:E:3030:HIS:HB2	1:E:3035:GLU:HG2	1.93	0.50
1:E:3037:GLU:HG2	1:E:3088:VAL:HG21	1.93	0.50
1:G:2244:ARG:NH2	1:G:2283:ASN:OD1	2.44	0.50
1:G:4761:PRO:HB2	1:G:4766:THR:HG21	1.92	0.50
1:J:2110:TYR:HB2	1:J:3694:LYS:HA	1.93	0.50
2:I:30:LEU:HD23	2:I:36:PHE:HE2	1.75	0.50
3:C:69:ILE:HB	3:C:80:LEU:HD13	1.92	0.50
1:B:2244:ARG:NH2	1:B:2283:ASN:OD1	2.44	0.50
1:E:2495:VAL:HG12	1:E:2497:ASP:H	1.76	0.50
1:E:3097:GLU:HA	1:E:3167:ARG:HH12	1.76	0.50
1:E:3137:LEU:HB3	1:E:3138:PRO:HD3	1.92	0.50
1:E:3222:LYS:HB3	1:E:3226:GLU:HB2	1.93	0.50
1:G:657:THR:HB	1:G:1021:LEU:HD13	1.93	0.50
1:G:2495:VAL:HG12	1:G:2497:ASP:H	1.76	0.50
1:G:3446:SER:HA	1:G:3452:LYS:HE3	1.93	0.50
1:G:3604:TYR:O	1:G:3608:GLN:HG2	2.12	0.50
1:J:2767:ALA:HB2	1:J:2791:LEU:HD11	1.92	0.50
1:J:3037:GLU:HG2	1:J:3088:VAL:HG21	1.93	0.50
1:J:3354:LEU:O	1:J:3358:PHE:HD1	1.94	0.50
1:J:3604:TYR:O	1:J:3608:GLN:HG2	2.12	0.50
1:J:3753:PHE:HZ	1:J:4718:LYS:HD3	1.76	0.50
2:A:16:PRO:HB3	2:A:106:LEU:HD11	1.94	0.50
1:B:3555:ASN:O	1:B:3558:HIS:ND1	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.92	0.50
1:E:3435:PHE:CZ	1:E:3602:VAL:HG21	2.47	0.50
1:G:3043:PHE:HE2	1:G:3072:ALA:HA	1.76	0.50
1:J:867:LEU:HA	1:J:871:ARG:HG2	1.92	0.50
1:J:2679:PHE:HB2	1:J:2706:ILE:HG21	1.93	0.50
3:M:101:PRO:HG2	3:M:104:TYR:CE2	2.46	0.50
1:B:3043:PHE:HE2	1:B:3072:ALA:HA	1.76	0.50
1:E:926:GLY:O	1:E:930:LYS:HG3	2.11	0.50
1:G:2336:ARG:HB2	1:G:2435:ARG:HD2	1.93	0.50
1:G:3219:TYR:HA	1:G:3227:ARG:HD3	1.94	0.50
1:G:4749:GLU:HG3	1:G:4753:HIS:CE1	2.46	0.50
1:J:866:HIS:HB3	1:J:929:LEU:HD13	1.93	0.50
1:J:2495:VAL:HG12	1:J:2497:ASP:H	1.76	0.50
1:J:3222:LYS:HB3	1:J:3226:GLU:HB2	1.93	0.50
2:H:16:PRO:HB3	2:H:106:LEU:HD11	1.94	0.50
3:C:105:ASN:ND2	3:C:107:TRP:HD1	2.08	0.50
3:K:69:ILE:HB	3:K:80:LEU:HD13	1.92	0.50
1:B:510:GLU:OE1	1:B:510:GLU:N	2.43	0.50
1:B:2496:PRO:HG3	1:B:2550:LEU:HD23	1.93	0.50
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.47	0.50
1:B:3529:ASP:O	1:B:3533:ILE:HG13	2.11	0.50
1:B:3547:GLU:O	1:B:3551:GLU:HG2	2.12	0.50
1:B:5013:MET:HG2	1:B:5018:CYS:HB2	1.92	0.50
1:E:231:LEU:O	1:E:260:TRP:NE1	2.41	0.50
1:E:1249:PRO:HG2	1:E:1252:HIS:HB2	1.92	0.50
1:E:3163:VAL:O	1:E:3167:ARG:HG2	2.11	0.50
1:E:3195:ALA:HA	1:E:3279:SER:HA	1.93	0.50
1:E:3229:ILE:H	1:E:3229:ILE:HD12	1.77	0.50
1:E:3604:TYR:O	1:E:3608:GLN:HG2	2.12	0.50
1:G:2679:PHE:HB2	1:G:2706:ILE:HG21	1.93	0.50
1:G:3163:VAL:O	1:G:3167:ARG:HG2	2.11	0.50
1:J:1263:THR:OG1	1:J:1266:THR:OG1	2.26	0.50
1:B:926:GLY:O	1:B:930:LYS:HG3	2.12	0.50
1:B:3354:LEU:O	1:B:3358:PHE:HD1	1.94	0.50
1:B:3427:PRO:HD3	1:B:3579:LEU:HD21	1.94	0.50
1:E:2970:SER:HA	1:E:2973:PHE:CE2	2.47	0.50
1:E:3427:PRO:HD3	1:E:3579:LEU:HD21	1.94	0.50
1:E:4822:THR:HB	1:J:4839:MET:HE1	1.92	0.50
1:G:436:LEU:H	1:G:436:LEU:HD12	1.77	0.50
1:G:2686:LEU:HG	1:G:2997:PHE:CE2	2.46	0.50
1:G:2960:LEU:HB3	1:G:3038:MET:CE	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3097:GLU:HA	1:G:3167:ARG:HH12	1.76	0.50
1:G:3427:PRO:HD3	1:G:3579:LEU:HD21	1.94	0.50
1:G:3529:ASP:O	1:G:3533:ILE:HG13	2.10	0.50
1:J:657:THR:HB	1:J:1021:LEU:HD13	1.93	0.50
1:J:2336:ARG:HB2	1:J:2435:ARG:HD2	1.93	0.50
1:J:2388:GLU:O	1:J:2390:PRO:HD3	2.12	0.50
1:J:3195:ALA:HA	1:J:3279:SER:HA	1.93	0.50
1:J:3280:TYR:HE1	1:J:3283:ARG:HH21	1.60	0.50
2:D:30:LEU:HD23	2:D:36:PHE:HE2	1.75	0.50
1:B:2110:TYR:HB2	1:B:3694:LYS:HA	1.93	0.50
1:B:3222:LYS:HB3	1:B:3226:GLU:HB2	1.93	0.50
1:B:3229:ILE:H	1:B:3229:ILE:HD12	1.77	0.50
1:E:3333:THR:HG22	1:E:3337:ARG:CZ	2.42	0.50
1:G:3137:LEU:HB3	1:G:3138:PRO:HD3	1.92	0.50
1:G:4839:MET:HE1	1:J:4822:THR:HB	1.94	0.50
1:J:3229:ILE:H	1:J:3229:ILE:HD12	1.77	0.50
1:J:4137:ARG:NH2	1:J:4196:GLU:OE2	2.43	0.50
3:F:2:VAL:HG22	3:F:27:SER:H	1.76	0.50
3:M:39:GLN:OE1	3:M:45:ARG:NH2	2.39	0.50
1:B:3163:VAL:O	1:B:3167:ARG:HG2	2.11	0.50
1:B:3959:LYS:HG3	1:B:4022:ASP:OD2	2.11	0.50
1:B:4749:GLU:HG3	1:B:4753:HIS:CE1	2.46	0.50
1:E:657:THR:HB	1:E:1021:LEU:HD13	1.93	0.50
1:G:926:GLY:O	1:G:930:LYS:HG3	2.11	0.50
1:G:4828:SER:O	1:G:4832:HIS:HB3	2.12	0.50
1:J:883:ALA:HA	1:J:886:ARG:HE	1.77	0.50
1:B:3219:TYR:HA	1:B:3227:ARG:HD3	1.94	0.49
1:E:794:GLY:HA3	1:E:812:HIS:HB3	1.94	0.49
1:G:246:TYR:CD1	1:G:373:LYS:HE3	2.47	0.49
1:G:2388:GLU:O	1:G:2390:PRO:HD3	2.12	0.49
1:J:1110:ARG:NH2	1:J:1112:ASP:OD1	2.44	0.49
1:J:2454:ARG:HD2	1:J:2458:ARG:HH21	1.77	0.49
1:J:3427:PRO:HD3	1:J:3579:LEU:HD21	1.94	0.49
1:J:3435:PHE:CZ	1:J:3602:VAL:HG21	2.47	0.49
1:B:436:LEU:H	1:B:436:LEU:HD12	1.77	0.49
1:B:657:THR:HB	1:B:1021:LEU:HD13	1.94	0.49
1:B:4828:SER:O	1:B:4832:HIS:HB3	2.12	0.49
1:E:866:HIS:HB3	1:E:929:LEU:HD13	1.93	0.49
1:E:2110:TYR:HB2	1:E:3694:LYS:HA	1.93	0.49
1:G:3229:ILE:H	1:G:3229:ILE:HD12	1.77	0.49
1:G:3280:TYR:HE1	1:G:3283:ARG:HH21	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3547:GLU:O	1:G:3551:GLU:HG2	2.12	0.49
1:J:4731:ILE:HG22	1:J:4732:PHE:CD2	2.48	0.49
1:B:2960:LEU:HB3	1:B:3038:MET:CE	2.42	0.49
1:B:3195:ALA:HA	1:B:3279:SER:HA	1.93	0.49
1:E:510:GLU:N	1:E:510:GLU:OE1	2.43	0.49
1:E:2496:PRO:HG3	1:E:2550:LEU:HD23	1.93	0.49
1:E:2578:MET:SD	1:E:2578:MET:N	2.86	0.49
1:G:710:ASP:OD1	1:G:711:LEU:N	2.46	0.49
1:G:883:ALA:HA	1:G:886:ARG:HE	1.77	0.49
1:G:3354:LEU:O	1:G:3358:PHE:HD1	1.94	0.49
1:G:3688:GLU:N	1:G:3688:GLU:OE1	2.46	0.49
1:G:4744:ASP:HB3	1:G:4747:SER:HB3	1.95	0.49
1:J:794:GLY:HA3	1:J:812:HIS:HB3	1.94	0.49
1:J:4828:SER:O	1:J:4832:HIS:HB3	2.12	0.49
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.11	0.49
1:B:3688:GLU:N	1:B:3688:GLU:OE1	2.46	0.49
1:B:4097:MET:SD	1:B:4108:ILE:HD12	2.53	0.49
1:B:4202:ARG:O	1:B:4206:GLU:HG2	2.12	0.49
1:E:2244:ARG:NH2	1:E:2283:ASN:OD1	2.44	0.49
1:E:3219:TYR:HA	1:E:3227:ARG:HD3	1.94	0.49
1:E:3446:SER:HA	1:E:3452:LYS:HE3	1.93	0.49
1:G:510:GLU:OE1	1:G:510:GLU:N	2.43	0.49
1:G:4097:MET:SD	1:G:4108:ILE:HD12	2.53	0.49
1:J:4202:ARG:O	1:J:4206:GLU:HG2	2.12	0.49
3:F:90:THR:HG23	3:F:124:THR:HA	1.95	0.49
3:K:2:VAL:HG22	3:K:27:SER:H	1.76	0.49
1:B:883:ALA:HA	1:B:886:ARG:HE	1.78	0.49
1:B:3042:LEU:HD22	1:B:3071:LEU:HD11	1.95	0.49
1:E:883:ALA:HA	1:E:886:ARG:HE	1.78	0.49
1:E:2454:ARG:HD2	1:E:2458:ARG:HH21	1.77	0.49
1:E:3052:HIS:C	1:E:3053:ARG:HD2	2.38	0.49
1:E:4097:MET:SD	1:E:4108:ILE:HD12	2.53	0.49
1:G:210:GLU:HB2	1:G:215:THR:HG22	1.95	0.49
1:G:1037:ASP:O	1:G:1041:GLN:HG2	2.12	0.49
1:G:2970:SER:HA	1:G:2973:PHE:CE2	2.47	0.49
1:G:3052:HIS:C	1:G:3053:ARG:HD2	2.38	0.49
1:G:3097:GLU:O	1:G:3167:ARG:NH2	2.44	0.49
1:J:210:GLU:HB2	1:J:215:THR:HG22	1.95	0.49
1:J:2578:MET:SD	1:J:2578:MET:N	2.86	0.49
1:J:2970:SER:HA	1:J:2973:PHE:CE2	2.47	0.49
1:J:3688:GLU:N	1:J:3688:GLU:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:30:LEU:HD23	2:D:36:PHE:CE2	2.48	0.49
2:I:30:LEU:HD23	2:I:36:PHE:CE2	2.48	0.49
3:C:2:VAL:HG22	3:C:27:SER:H	1.76	0.49
3:M:90:THR:HG23	3:M:124:THR:HA	1.95	0.49
1:B:2336:ARG:HB2	1:B:2435:ARG:HD2	1.93	0.49
1:B:3435:PHE:CZ	1:B:3602:VAL:HG21	2.47	0.49
1:B:3446:SER:HA	1:B:3452:LYS:HE3	1.93	0.49
1:E:3354:LEU:O	1:E:3358:PHE:HD1	1.94	0.49
1:E:3547:GLU:O	1:E:3551:GLU:HG2	2.12	0.49
1:E:4828:SER:O	1:E:4832:HIS:HB3	2.12	0.49
1:G:3333:THR:HG22	1:G:3337:ARG:CZ	2.42	0.49
1:J:371:VAL:HG12	1:J:373:LYS:H	1.78	0.49
1:J:926:GLY:O	1:J:930:LYS:HG3	2.12	0.49
1:J:1037:ASP:O	1:J:1041:GLN:HG2	2.12	0.49
1:J:3547:GLU:O	1:J:3551:GLU:HG2	2.12	0.49
3:C:90:THR:HG23	3:C:124:THR:HA	1.95	0.49
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.48	0.49
1:B:3315:LEU:HD13	1:B:3341:PHE:HE2	1.77	0.49
1:B:3333:THR:HG22	1:B:3337:ARG:CZ	2.42	0.49
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.95	0.49
1:E:359:TYR:HA	1:E:376:ALA:HA	1.95	0.49
1:G:371:VAL:HG12	1:G:373:LYS:H	1.77	0.49
1:G:897:ARG:HD3	1:G:905:PRO:HD3	1.95	0.49
1:G:2578:MET:SD	1:G:2578:MET:N	2.86	0.49
1:J:897:ARG:HD3	1:J:905:PRO:HD3	1.95	0.49
1:J:3219:TYR:HA	1:J:3227:ARG:HD3	1.94	0.49
2:A:4:ILE:HD11	2:A:62:GLY:HA2	1.95	0.49
3:K:90:THR:HG23	3:K:124:THR:HA	1.95	0.49
1:B:4931:ILE:HG12	1:G:4936:ILE:HD11	1.94	0.49
1:E:210:GLU:HB2	1:E:215:THR:HG22	1.95	0.49
1:E:1476:MET:HB2	1:E:1485:SER:HB2	1.95	0.49
1:E:2638:LYS:HB2	1:E:2639:MET:CE	2.43	0.49
1:E:2970:SER:HA	1:E:2973:PHE:CD2	2.48	0.49
1:G:721:LEU:HG	1:G:730:VAL:HG21	1.95	0.49
1:G:4731:ILE:HG22	1:G:4732:PHE:CD2	2.48	0.49
1:G:4931:ILE:HG12	1:J:4936:ILE:HD11	1.94	0.49
1:J:27:THR:HG23	1:J:32:GLN:HG3	1.95	0.49
1:J:246:TYR:CD1	1:J:373:LYS:HE3	2.48	0.49
1:J:1042:ALA:O	1:J:1046:LEU:HG	2.13	0.49
1:J:2638:LYS:HB2	1:J:2639:MET:CE	2.43	0.49
1:J:3052:HIS:C	1:J:3053:ARG:HD2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:16:PRO:HB3	2:I:106:LEU:HD11	1.94	0.49
1:B:246:TYR:CD1	1:B:373:LYS:HE3	2.48	0.49
1:B:2454:ARG:HD2	1:B:2458:ARG:HH21	1.77	0.49
1:B:2578:MET:SD	1:B:2578:MET:N	2.86	0.49
1:B:4744:ASP:HB3	1:B:4747:SER:HB3	1.95	0.49
1:E:359:TYR:HE1	1:E:385:ASP:HB2	1.77	0.49
1:E:783:PHE:HB2	1:E:787:VAL:HG11	1.94	0.49
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.13	0.49
1:E:2336:ARG:HB2	1:E:2435:ARG:HD2	1.93	0.49
1:G:27:THR:HG23	1:G:32:GLN:HG3	1.95	0.49
1:G:4202:ARG:O	1:G:4206:GLU:HG2	2.12	0.49
1:J:2244:ARG:NH2	1:J:2283:ASN:OD1	2.44	0.49
1:J:2991:HIS:O	1:J:2995:ILE:HG13	2.13	0.49
1:B:27:THR:HG23	1:B:32:GLN:HG3	1.95	0.49
1:B:710:ASP:OD1	1:B:711:LEU:N	2.46	0.49
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.12	0.49
1:B:2377:LEU:O	1:B:2381:GLU:HG2	2.13	0.49
1:B:3030:HIS:HB2	1:B:3035:GLU:HG2	1.93	0.49
1:B:3443:ILE:O	1:B:3447:LYS:HG3	2.13	0.49
1:B:4936:ILE:HD11	1:E:4931:ILE:HG12	1.93	0.49
1:E:222:LEU:O	1:E:223:PHE:HD1	1.96	0.49
1:E:2325:PRO:HB2	1:E:2421:ALA:HB1	1.95	0.49
1:E:2388:GLU:O	1:E:2390:PRO:HD3	2.12	0.49
1:E:4731:ILE:HG22	1:E:4732:PHE:CD2	2.48	0.49
1:G:251:ALA:O	1:G:255:HIS:ND1	2.40	0.49
1:G:783:PHE:HB2	1:G:787:VAL:HG11	1.94	0.49
1:G:1690:ASP:OD2	1:G:1693:GLN:NE2	2.46	0.49
1:G:4696:ASP:O	1:G:4700:GLN:HG2	2.13	0.49
1:J:251:ALA:O	1:J:255:HIS:ND1	2.40	0.49
1:J:747:CYS:SG	1:J:756:SER:HB2	2.53	0.49
1:J:3315:LEU:HD13	1:J:3341:PHE:HE2	1.77	0.49
2:I:4:ILE:HD11	2:I:62:GLY:HA2	1.95	0.49
1:B:210:GLU:HB2	1:B:215:THR:HG22	1.95	0.48
1:B:2325:PRO:HB2	1:B:2421:ALA:HB1	1.95	0.48
1:B:3052:HIS:C	1:B:3053:ARG:HD2	2.38	0.48
1:B:3183:VAL:O	1:B:3187:ARG:HG3	2.13	0.48
1:B:4235:VAL:HG11	1:B:5019:TRP:CH2	2.48	0.48
1:E:436:LEU:H	1:E:436:LEU:HD12	1.77	0.48
1:E:863:LEU:HD21	1:E:939:VAL:HG21	1.95	0.48
1:E:2960:LEU:HB3	1:E:3038:MET:CE	2.42	0.48
1:E:3183:VAL:O	1:E:3187:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3280:TYR:HE1	1:E:3283:ARG:HH21	1.60	0.48
1:E:3437:MET:O	1:E:3441:ILE:HG13	2.13	0.48
1:G:2325:PRO:HB2	1:G:2421:ALA:HB1	1.95	0.48
1:G:3435:PHE:CZ	1:G:3602:VAL:HG21	2.47	0.48
1:G:3437:MET:O	1:G:3441:ILE:HG13	2.13	0.48
1:J:222:LEU:O	1:J:223:PHE:HD1	1.96	0.48
1:J:863:LEU:HD21	1:J:939:VAL:HG21	1.95	0.48
1:J:3416:VAL:HB	1:J:3516:LYS:HZ1	1.75	0.48
1:J:3534:MET:O	1:J:3538:THR:HG23	2.13	0.48
1:J:4104:THR:O	1:J:4108:ILE:HG12	2.13	0.48
2:D:4:ILE:HD11	2:D:62:GLY:HA2	1.95	0.48
1:B:897:ARG:HD3	1:B:905:PRO:HD3	1.95	0.48
1:B:2504:LEU:O	1:B:2508:ARG:HG2	2.14	0.48
1:B:2700:MET:CE	1:B:2701:PRO:HD3	2.43	0.48
1:B:4731:ILE:HG22	1:B:4732:PHE:CD2	2.48	0.48
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.13	0.48
1:E:27:THR:HG23	1:E:32:GLN:HG3	1.95	0.48
1:E:2991:HIS:O	1:E:2995:ILE:HG13	2.13	0.48
1:E:4235:VAL:HG11	1:E:5019:TRP:CH2	2.48	0.48
1:G:794:GLY:HA3	1:G:812:HIS:HB3	1.94	0.48
1:G:3352:GLU:CD	1:G:3352:GLU:H	2.22	0.48
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.13	0.48
1:J:436:LEU:H	1:J:436:LEU:HD12	1.77	0.48
1:J:728:ARG:HE	1:J:1487:LEU:HD12	1.78	0.48
1:J:2960:LEU:HB3	1:J:3038:MET:CE	2.42	0.48
2:D:16:PRO:HB3	2:D:106:LEU:HD11	1.94	0.48
1:B:230:CYS:SG	1:B:231:LEU:HG	2.53	0.48
1:B:728:ARG:HE	1:B:1487:LEU:HD12	1.78	0.48
1:B:747:CYS:SG	1:B:756:SER:HB2	2.53	0.48
1:B:1042:ALA:O	1:B:1046:LEU:HG	2.13	0.48
1:B:2388:GLU:O	1:B:2390:PRO:HD3	2.12	0.48
1:E:747:CYS:SG	1:E:756:SER:HB2	2.53	0.48
1:E:2294:ASP:HA	1:E:2297:LYS:HE2	1.95	0.48
1:E:2504:LEU:O	1:E:2508:ARG:HG2	2.14	0.48
1:E:3206:LEU:H	1:E:3206:LEU:HD12	1.79	0.48
1:G:230:CYS:SG	1:G:231:LEU:HG	2.54	0.48
1:G:1476:MET:HB2	1:G:1485:SER:HB2	1.95	0.48
1:G:2689:LYS:HG2	1:G:2690:LYS:H	1.78	0.48
1:G:3315:LEU:HD13	1:G:3341:PHE:HE2	1.77	0.48
1:G:4876:CYS:HA	1:G:4882:CYS:HB2	1.95	0.48
1:G:4943:LEU:O	1:G:4947:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3042:LEU:HD22	1:J:3071:LEU:HD11	1.95	0.48
1:J:3206:LEU:HD12	1:J:3206:LEU:H	1.79	0.48
1:J:4696:ASP:O	1:J:4700:GLN:HG2	2.13	0.48
1:J:4744:ASP:HB3	1:J:4747:SER:HB3	1.95	0.48
2:H:4:ILE:HD11	2:H:62:GLY:HA2	1.95	0.48
3:F:18:LEU:HD21	3:F:85:LEU:HD11	1.95	0.48
3:K:18:LEU:HD21	3:K:85:LEU:HD11	1.96	0.48
1:B:252:VAL:HA	1:B:255:HIS:HB2	1.96	0.48
1:B:266:ARG:HH12	1:B:273:HIS:HE1	1.58	0.48
1:B:1423:ASP:O	1:B:1427:ILE:HG12	2.14	0.48
1:B:1973:GLN:NE2	1:B:2005:GLN:OE1	2.47	0.48
1:E:1037:ASP:O	1:E:1041:GLN:HG2	2.12	0.48
1:E:1423:ASP:O	1:E:1427:ILE:HG12	2.14	0.48
1:E:3443:ILE:O	1:E:3447:LYS:HG3	2.13	0.48
1:E:3688:GLU:OE1	1:E:3688:GLU:N	2.45	0.48
1:E:4696:ASP:O	1:E:4700:GLN:HG2	2.13	0.48
1:G:470:SER:HA	1:G:473:ASN:HD21	1.77	0.48
1:G:747:CYS:SG	1:G:756:SER:HB2	2.53	0.48
1:G:863:LEU:HD21	1:G:939:VAL:HG21	1.95	0.48
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.13	0.48
1:G:3042:LEU:HD22	1:G:3071:LEU:HD11	1.95	0.48
1:J:252:VAL:HA	1:J:255:HIS:HB2	1.96	0.48
1:J:1786:LEU:HD12	1:J:1787:PRO:HD2	1.96	0.48
1:J:2377:LEU:O	1:J:2381:GLU:HG2	2.13	0.48
1:J:4097:MET:SD	1:J:4108:ILE:HD12	2.53	0.48
1:B:213:TYR:HD1	1:B:340:LYS:HA	1.79	0.48
1:B:783:PHE:HB2	1:B:787:VAL:HG11	1.95	0.48
1:B:1476:MET:HB2	1:B:1485:SER:HB2	1.95	0.48
1:B:2689:LYS:HG2	1:B:2690:LYS:H	1.78	0.48
1:B:3352:GLU:CD	1:B:3352:GLU:H	2.21	0.48
1:B:4184:MET:O	1:B:4184:MET:HE3	2.14	0.48
1:E:230:CYS:SG	1:E:231:LEU:HG	2.53	0.48
1:E:299:LEU:CD2	1:E:378:LEU:HG	2.44	0.48
1:E:1786:LEU:HD12	1:E:1787:PRO:HD2	1.96	0.48
1:E:4202:ARG:O	1:E:4206:GLU:HG2	2.12	0.48
1:G:1423:ASP:O	1:G:1427:ILE:HG12	2.14	0.48
1:G:1973:GLN:NE2	1:G:2005:GLN:OE1	2.47	0.48
1:G:3443:ILE:O	1:G:3447:LYS:HG3	2.13	0.48
1:J:2325:PRO:HB2	1:J:2421:ALA:HB1	1.95	0.48
1:J:3097:GLU:O	1:J:3167:ARG:NH2	2.44	0.48
1:J:4109:GLN:HA	1:J:4112:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:SER:HA	1:B:473:ASN:HD21	1.77	0.48
1:B:721:LEU:HG	1:B:730:VAL:HG21	1.95	0.48
1:B:794:GLY:HA3	1:B:812:HIS:HB3	1.94	0.48
1:B:993:HIS:CE1	1:B:1027:LEU:HD11	2.49	0.48
1:B:2328:GLY:HA3	1:B:2425:PHE:HE2	1.79	0.48
1:B:2638:LYS:HB2	1:B:2639:MET:CE	2.43	0.48
1:B:2991:HIS:O	1:B:2995:ILE:HG13	2.13	0.48
1:B:3280:TYR:HE1	1:B:3283:ARG:HH21	1.60	0.48
1:B:3437:MET:O	1:B:3441:ILE:HG13	2.13	0.48
1:B:4696:ASP:O	1:B:4700:GLN:HG2	2.13	0.48
1:E:911:HIS:HB2	1:E:918:ARG:NE	2.29	0.48
1:E:2377:LEU:O	1:E:2381:GLU:HG2	2.13	0.48
1:E:3534:MET:O	1:E:3538:THR:HG23	2.13	0.48
1:G:222:LEU:O	1:G:223:PHE:HD1	1.96	0.48
1:G:252:VAL:HA	1:G:255:HIS:HB2	1.96	0.48
1:G:4235:VAL:HG11	1:G:5019:TRP:CH2	2.48	0.48
1:J:783:PHE:HB2	1:J:787:VAL:HG11	1.94	0.48
1:J:869:ARG:O	1:J:873:LYS:HG3	2.14	0.48
1:J:1423:ASP:O	1:J:1427:ILE:HG12	2.14	0.48
1:J:1476:MET:HB2	1:J:1485:SER:HB2	1.95	0.48
1:J:3352:GLU:HG2	1:J:3353:LEU:H	1.79	0.48
1:J:3850:GLN:HB2	1:J:3873:LYS:HG3	1.96	0.48
1:J:4184:MET:O	1:J:4184:MET:HE3	2.14	0.48
1:J:4235:VAL:HG11	1:J:5019:TRP:CH2	2.49	0.48
2:A:30:LEU:HD23	2:A:36:PHE:CE2	2.48	0.48
3:C:51:ILE:HG23	3:C:71:ARG:HD2	1.96	0.48
3:M:40:ALA:HB3	3:M:43:LYS:HB3	1.96	0.48
1:B:222:LEU:O	1:B:223:PHE:HD1	1.96	0.48
1:B:869:ARG:O	1:B:873:LYS:HG3	2.14	0.48
1:B:1786:LEU:HD12	1:B:1787:PRO:HD2	1.96	0.48
1:B:2294:ASP:HA	1:B:2297:LYS:HE2	1.95	0.48
1:B:4109:GLN:HA	1:B:4112:LEU:HD12	1.96	0.48
1:E:266:ARG:HH12	1:E:273:HIS:HE1	1.58	0.48
1:E:710:ASP:OD1	1:E:711:LEU:N	2.46	0.48
1:G:911:HIS:HB2	1:G:918:ARG:NE	2.29	0.48
1:G:2504:LEU:O	1:G:2508:ARG:HG2	2.14	0.48
1:G:3068:LEU:HA	1:G:3071:LEU:HD12	1.95	0.48
1:G:4184:MET:O	1:G:4184:MET:HE3	2.14	0.48
1:J:470:SER:HA	1:J:473:ASN:HD21	1.77	0.48
1:J:710:ASP:OD1	1:J:711:LEU:N	2.46	0.48
1:J:3183:VAL:O	1:J:3187:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4230:LYS:NZ	1:J:4231:MET:SD	2.84	0.48
1:J:4943:LEU:O	1:J:4947:GLN:HG2	2.14	0.48
3:K:104:TYR:C	3:K:104:TYR:CD1	2.92	0.48
1:B:3534:MET:O	1:B:3538:THR:HG23	2.13	0.48
1:E:213:TYR:HD1	1:E:340:LYS:HA	1.79	0.48
1:E:470:SER:HA	1:E:473:ASN:HD21	1.77	0.48
1:E:3537:LYS:HD3	1:E:3600:SER:HB2	1.96	0.48
1:G:2454:ARG:HD2	1:G:2458:ARG:HH21	1.77	0.48
1:G:3352:GLU:HG2	1:G:3353:LEU:H	1.79	0.48
1:G:4109:GLN:HA	1:G:4112:LEU:HD12	1.96	0.48
1:J:993:HIS:CE1	1:J:1027:LEU:HD11	2.49	0.48
1:J:1180:ARG:HG3	1:J:1181:GLU:HG3	1.96	0.48
1:J:2970:SER:HA	1:J:2973:PHE:CD2	2.48	0.48
1:J:3333:THR:HG22	1:J:3337:ARG:CZ	2.42	0.48
1:J:3437:MET:O	1:J:3441:ILE:HG13	2.13	0.48
1:J:3550:ARG:O	1:J:3554:GLN:HG2	2.14	0.48
3:C:18:LEU:HD21	3:C:85:LEU:HD11	1.96	0.48
3:M:18:LEU:HD21	3:M:85:LEU:HD11	1.96	0.48
3:M:100:VAL:HG22	3:M:105:ASN:HB2	1.96	0.48
1:B:1690:ASP:OD2	1:B:1693:GLN:NE2	2.46	0.48
1:B:2751:LEU:HD12	1:B:2754:PHE:HD2	1.79	0.48
1:B:3752:SER:HB2	1:B:3755:GLU:HG3	1.96	0.48
1:B:4574:ASN:ND2	1:B:4813:LEU:HG	2.29	0.48
1:E:266:ARG:NH2	1:E:273:HIS:O	2.47	0.48
1:E:638:ILE:HD11	1:E:1636:MET:HE2	1.96	0.48
1:E:870:ILE:O	1:E:874:LEU:HG	2.14	0.48
1:E:897:ARG:HD3	1:E:905:PRO:HD3	1.95	0.48
1:G:728:ARG:HE	1:G:1487:LEU:HD12	1.78	0.48
1:G:2377:LEU:O	1:G:2381:GLU:HG2	2.13	0.48
1:G:3183:VAL:O	1:G:3187:ARG:HG3	2.13	0.48
1:G:4574:ASN:ND2	1:G:4813:LEU:HG	2.29	0.48
1:J:230:CYS:SG	1:J:231:LEU:HG	2.53	0.48
1:J:2504:LEU:O	1:J:2508:ARG:HG2	2.14	0.48
3:K:40:ALA:HB3	3:K:43:LYS:HB3	1.96	0.48
3:M:51:ILE:HG23	3:M:71:ARG:HD2	1.96	0.48
1:B:2381:GLU:O	1:B:2385:ARG:HG3	2.14	0.48
1:B:3417:ASP:OD1	1:B:3516:LYS:HE2	2.14	0.48
1:E:2689:LYS:HG2	1:E:2690:LYS:H	1.78	0.48
1:E:3834:ALA:O	1:E:3838:THR:HG23	2.14	0.48
1:E:4744:ASP:HB3	1:E:4747:SER:HB3	1.95	0.48
1:G:638:ILE:HD11	1:G:1636:MET:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2638:LYS:HB2	1:G:2639:MET:CE	2.43	0.48
1:G:3550:ARG:O	1:G:3554:GLN:HG2	2.14	0.48
1:G:3850:GLN:HB2	1:G:3873:LYS:HG3	1.96	0.48
1:J:721:LEU:HG	1:J:730:VAL:HG21	1.95	0.48
1:J:3310:ASP:HA	1:J:3313:ASN:ND2	2.28	0.48
1:J:3352:GLU:CD	1:J:3352:GLU:H	2.22	0.48
1:B:266:ARG:NH2	1:B:273:HIS:O	2.47	0.47
1:B:863:LEU:HD21	1:B:939:VAL:HG21	1.95	0.47
1:B:882:TRP:O	1:B:885:THR:OG1	2.24	0.47
1:B:3537:LYS:HD3	1:B:3600:SER:HB2	1.96	0.47
1:B:4104:THR:O	1:B:4108:ILE:HG12	2.13	0.47
1:E:882:TRP:CD1	1:E:886:ARG:NE	2.82	0.47
1:E:1973:GLN:NE2	1:E:2005:GLN:OE1	2.47	0.47
1:E:3315:LEU:HD13	1:E:3341:PHE:HE2	1.77	0.47
1:E:3550:ARG:O	1:E:3554:GLN:HG2	2.14	0.47
1:E:4104:THR:O	1:E:4108:ILE:HG12	2.13	0.47
1:E:4184:MET:O	1:E:4184:MET:HE3	2.14	0.47
1:E:4876:CYS:HA	1:E:4882:CYS:HB2	1.95	0.47
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.14	0.47
1:G:869:ARG:O	1:G:873:LYS:HG3	2.14	0.47
1:G:993:HIS:CE1	1:G:1027:LEU:HD11	2.49	0.47
1:G:2991:HIS:O	1:G:2995:ILE:HG13	2.13	0.47
3:K:51:ILE:HG23	3:K:71:ARG:HD2	1.96	0.47
1:B:2011:HIS:O	1:B:2011:HIS:ND1	2.41	0.47
1:E:14:LEU:HD13	1:E:202:MET:HG2	1.96	0.47
1:E:1649:ASP:HB3	1:E:1652:GLU:HG3	1.96	0.47
1:E:1690:ASP:OD2	1:E:1693:GLN:NE2	2.46	0.47
1:E:2328:GLY:HA3	1:E:2425:PHE:HE2	1.79	0.47
1:E:2751:LEU:HD12	1:E:2754:PHE:HD2	1.79	0.47
1:E:3106:MET:HE2	1:E:3106:MET:N	2.29	0.47
1:E:4735:GLU:O	1:E:4739:GLU:HG2	2.14	0.47
1:G:1170:MET:HE1	1:G:1176:GLU:HG2	1.96	0.47
1:G:1180:ARG:HG3	1:G:1181:GLU:HG3	1.96	0.47
1:G:1931:LEU:HD22	1:G:1935:VAL:HG11	1.96	0.47
1:G:2970:SER:HA	1:G:2973:PHE:CD2	2.48	0.47
1:G:3047:ALA:O	1:G:3051:ARG:N	2.47	0.47
1:G:3179:LYS:HG2	1:G:3268:HIS:CE1	2.50	0.47
1:G:3534:MET:O	1:G:3538:THR:HG23	2.13	0.47
1:G:3537:LYS:HD3	1:G:3600:SER:HB2	1.96	0.47
1:J:14:LEU:HD13	1:J:202:MET:HG2	1.96	0.47
1:J:911:HIS:HB2	1:J:918:ARG:NE	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1649:ASP:HB3	1:J:1652:GLU:HG3	1.96	0.47
1:J:3443:ILE:O	1:J:3447:LYS:HG3	2.13	0.47
2:H:30:LEU:HD23	2:H:36:PHE:CE2	2.48	0.47
3:C:40:ALA:HB3	3:C:43:LYS:HB3	1.96	0.47
3:F:40:ALA:HB3	3:F:43:LYS:HB3	1.96	0.47
1:B:3097:GLU:O	1:B:3167:ARG:NH2	2.44	0.47
1:B:3550:ARG:O	1:B:3554:GLN:HG2	2.14	0.47
1:B:3850:GLN:HB2	1:B:3873:LYS:HG3	1.96	0.47
1:E:869:ARG:O	1:E:873:LYS:HG3	2.14	0.47
1:E:3179:LYS:HG2	1:E:3268:HIS:CE1	2.49	0.47
1:E:3310:ASP:HA	1:E:3313:ASN:ND2	2.28	0.47
1:E:3352:GLU:CD	1:E:3352:GLU:H	2.22	0.47
1:E:3352:GLU:HG2	1:E:3353:LEU:H	1.79	0.47
1:E:3850:GLN:HB2	1:E:3873:LYS:HG3	1.96	0.47
1:G:14:LEU:HD13	1:G:202:MET:HG2	1.96	0.47
1:G:2294:ASP:HA	1:G:2297:LYS:HE2	1.95	0.47
1:G:2328:GLY:HA3	1:G:2425:PHE:HE2	1.79	0.47
1:G:2381:GLU:O	1:G:2385:ARG:HG3	2.14	0.47
1:G:3310:ASP:HA	1:G:3313:ASN:ND2	2.28	0.47
1:J:2294:ASP:HA	1:J:2297:LYS:HE2	1.95	0.47
1:J:2689:LYS:HG2	1:J:2690:LYS:H	1.78	0.47
1:J:3068:LEU:HA	1:J:3071:LEU:HD12	1.95	0.47
1:J:3179:LYS:HG2	1:J:3268:HIS:CE1	2.49	0.47
1:J:4735:GLU:O	1:J:4739:GLU:HG2	2.15	0.47
1:B:3106:MET:HE2	1:B:3106:MET:N	2.29	0.47
1:E:252:VAL:HA	1:E:255:HIS:HB2	1.96	0.47
1:E:871:ARG:CZ	1:E:922:LEU:HB3	2.45	0.47
1:E:1620:ALA:HB3	1:E:1624:LEU:HB2	1.97	0.47
1:E:4109:GLN:HA	1:E:4112:LEU:HD12	1.96	0.47
1:G:3417:ASP:OD1	1:G:3516:LYS:HE2	2.14	0.47
1:J:3537:LYS:HD3	1:J:3600:SER:HB2	1.96	0.47
1:J:3713:LYS:NZ	1:J:3715:LYS:O	2.48	0.47
1:J:4090:LYS:HE2	1:J:4123:ILE:HG21	1.97	0.47
1:B:870:ILE:O	1:B:874:LEU:HG	2.14	0.47
1:B:1867:GLU:HG2	1:B:1870:VAL:HG12	1.97	0.47
1:B:3179:LYS:HG2	1:B:3268:HIS:CE1	2.49	0.47
1:B:4822:THR:HB	1:E:4839:MET:HE1	1.95	0.47
1:E:299:LEU:HD22	1:E:378:LEU:HG	1.97	0.47
1:E:728:ARG:HE	1:E:1487:LEU:HD12	1.78	0.47
1:E:882:TRP:O	1:E:885:THR:OG1	2.25	0.47
1:E:993:HIS:CE1	1:E:1027:LEU:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3417:ASP:OD1	1:E:3516:LYS:HE2	2.14	0.47
1:E:4090:LYS:HE2	1:E:4123:ILE:HG21	1.97	0.47
1:E:4574:ASN:ND2	1:E:4813:LEU:HG	2.29	0.47
1:G:4735:GLU:O	1:G:4739:GLU:HG2	2.15	0.47
1:J:213:TYR:HD1	1:J:340:LYS:HA	1.79	0.47
1:J:871:ARG:CZ	1:J:922:LEU:HB3	2.45	0.47
1:J:1620:ALA:HB3	1:J:1624:LEU:HB2	1.97	0.47
1:J:1690:ASP:OD2	1:J:1693:GLN:NE2	2.46	0.47
2:H:78:PRO:HA	2:H:81:ALA:HB3	1.97	0.47
1:B:882:TRP:CD1	1:B:886:ARG:NE	2.82	0.47
1:B:984:LEU:O	1:B:988:LEU:HD23	2.15	0.47
1:B:3206:LEU:HD12	1:B:3206:LEU:H	1.78	0.47
1:B:3310:ASP:HA	1:B:3313:ASN:ND2	2.28	0.47
1:E:972:LEU:HD12	1:E:976:ARG:HA	1.97	0.47
1:E:3047:ALA:O	1:E:3051:ARG:N	2.47	0.47
1:E:3755:GLU:O	1:E:3758:MET:HG3	2.15	0.47
1:G:213:TYR:HD1	1:G:340:LYS:HA	1.79	0.47
1:G:882:TRP:CD1	1:G:886:ARG:NE	2.83	0.47
1:G:972:LEU:HD12	1:G:976:ARG:HA	1.97	0.47
1:G:3137:LEU:O	1:G:3141:THR:OG1	2.28	0.47
1:G:3206:LEU:HD12	1:G:3206:LEU:H	1.79	0.47
1:G:3752:SER:HB2	1:G:3755:GLU:HG3	1.96	0.47
1:G:4090:LYS:HE2	1:G:4123:ILE:HG21	1.97	0.47
1:J:882:TRP:CD1	1:J:886:ARG:NE	2.83	0.47
1:J:972:LEU:HD12	1:J:976:ARG:HA	1.97	0.47
1:J:4083:ASP:HB3	1:J:4087:LEU:H	1.80	0.47
1:J:4876:CYS:HA	1:J:4882:CYS:HB2	1.95	0.47
1:B:911:HIS:HB2	1:B:918:ARG:NE	2.29	0.47
1:B:972:LEU:HD12	1:B:976:ARG:HA	1.97	0.47
1:B:1649:ASP:HB3	1:B:1652:GLU:HG3	1.96	0.47
1:B:2715:VAL:HG12	1:B:2954:ARG:HA	1.97	0.47
1:B:3018:LEU:HD13	1:B:3150:HIS:HE1	1.80	0.47
1:B:3755:GLU:O	1:B:3758:MET:HG3	2.15	0.47
1:B:4083:ASP:HB3	1:B:4087:LEU:H	1.80	0.47
1:E:365:LYS:O	1:E:369:LEU:HG	2.15	0.47
1:E:721:LEU:HG	1:E:730:VAL:HG21	1.95	0.47
1:E:1170:MET:HE1	1:E:1176:GLU:HG2	1.96	0.47
1:E:1180:ARG:HG3	1:E:1181:GLU:HG3	1.96	0.47
1:E:1867:GLU:HG2	1:E:1870:VAL:HG12	1.97	0.47
1:E:2755:ILE:HD12	1:E:2813:LEU:HD13	1.96	0.47
1:E:2975:ALA:O	1:E:2978:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3078:ARG:HG3	1:E:3082:LYS:HE3	1.97	0.47
1:E:3752:SER:HB2	1:E:3755:GLU:HG3	1.96	0.47
1:E:5011:TRP:O	1:E:5015:GLN:HG3	2.15	0.47
1:G:1274:HIS:O	1:G:1559:GLN:NE2	2.33	0.47
1:G:2559:LEU:O	1:G:2563:THR:HG23	2.15	0.47
1:G:2751:LEU:HD12	1:G:2754:PHE:HD2	1.79	0.47
1:G:3043:PHE:CE1	1:G:3075:LEU:HD21	2.50	0.47
1:G:3780:LEU:HD11	1:G:3816:MET:HG2	1.97	0.47
1:J:870:ILE:O	1:J:874:LEU:HG	2.14	0.47
1:J:2700:MET:CE	1:J:2701:PRO:HD3	2.43	0.47
1:J:3755:GLU:O	1:J:3758:MET:HG3	2.15	0.47
1:J:3834:ALA:O	1:J:3838:THR:HG23	2.14	0.47
1:J:4574:ASN:ND2	1:J:4813:LEU:HG	2.29	0.47
1:J:5011:TRP:O	1:J:5015:GLN:HG3	2.15	0.47
1:B:1931:LEU:HD22	1:B:1935:VAL:HG11	1.96	0.47
1:B:2975:ALA:O	1:B:2978:GLU:HG2	2.15	0.47
1:B:3047:ALA:O	1:B:3051:ARG:N	2.47	0.47
1:B:3713:LYS:NZ	1:B:3715:LYS:O	2.48	0.47
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.14	0.47
1:B:4091:LYS:NZ	1:B:4092:ASP:OD1	2.48	0.47
1:E:2670:GLU:HG3	1:E:2912:THR:HA	1.97	0.47
1:E:3042:LEU:HD22	1:E:3071:LEU:HD11	1.95	0.47
1:E:3078:ARG:H	1:E:3078:ARG:HD2	1.80	0.47
1:E:4068:LEU:O	1:E:4071:ILE:HG22	2.15	0.47
1:G:20:VAL:HG21	1:G:202:MET:HE3	1.97	0.47
1:G:1620:ALA:HB3	1:G:1624:LEU:HB2	1.97	0.47
1:G:1786:LEU:HD12	1:G:1787:PRO:HD2	1.96	0.47
1:G:2700:MET:N	1:G:2701:PRO:HD2	2.30	0.47
1:G:2715:VAL:HG12	1:G:2954:ARG:HA	1.97	0.47
1:G:3106:MET:HE2	1:G:3106:MET:N	2.29	0.47
1:G:3717:ASP:OD1	1:G:3717:ASP:N	2.48	0.47
1:G:4083:ASP:HB3	1:G:4087:LEU:H	1.80	0.47
1:G:5011:TRP:O	1:G:5015:GLN:HG3	2.15	0.47
1:J:1867:GLU:HG2	1:J:1870:VAL:HG12	1.97	0.47
1:J:2670:GLU:HG3	1:J:2912:THR:HA	1.97	0.47
1:J:3043:PHE:CE1	1:J:3075:LEU:HD21	2.50	0.47
1:B:153:ALA:HB2	1:B:170:ILE:HG13	1.97	0.47
1:B:638:ILE:HD11	1:B:1636:MET:HE2	1.96	0.47
1:B:1620:ALA:HB3	1:B:1624:LEU:HB2	1.97	0.47
1:B:4093:PHE:CD1	1:B:4123:ILE:HD11	2.50	0.47
1:E:3043:PHE:CE1	1:E:3075:LEU:HD21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:299:LEU:HD23	1:G:376:ALA:O	2.15	0.47
1:G:870:ILE:O	1:G:874:LEU:HG	2.14	0.47
1:G:1436:SER:OG	1:G:1565:GLU:HB2	2.15	0.47
1:G:2755:ILE:HD12	1:G:2813:LEU:HD13	1.96	0.47
1:G:3777:GLU:O	1:G:3781:GLN:HG3	2.15	0.47
1:J:266:ARG:NH2	1:J:273:HIS:O	2.47	0.47
1:J:1931:LEU:HD22	1:J:1935:VAL:HG11	1.96	0.47
3:F:51:ILE:HG23	3:F:71:ARG:HD2	1.96	0.47
1:B:2700:MET:N	1:B:2701:PRO:HD2	2.30	0.47
1:B:3277:LEU:HG	1:B:3341:PHE:CZ	2.50	0.47
1:B:4735:GLU:O	1:B:4739:GLU:HG2	2.15	0.47
1:E:984:LEU:O	1:E:988:LEU:HD23	2.15	0.47
1:E:3018:LEU:HD13	1:E:3150:HIS:HE1	1.80	0.47
1:E:3097:GLU:O	1:E:3167:ARG:NH2	2.44	0.47
1:E:4091:LYS:NZ	1:E:4092:ASP:OD1	2.48	0.47
1:E:4157:ASP:N	1:E:4161:ARG:HH21	2.13	0.47
1:G:153:ALA:HB2	1:G:170:ILE:HG13	1.97	0.47
1:J:20:VAL:HG21	1:J:202:MET:HE3	1.97	0.47
1:J:299:LEU:HD23	1:J:376:ALA:O	2.15	0.47
1:J:551:LEU:HB3	1:J:589:LEU:HD21	1.97	0.47
1:J:638:ILE:HD11	1:J:1636:MET:HE2	1.96	0.47
1:J:1973:GLN:NE2	1:J:2005:GLN:OE1	2.47	0.47
3:F:104:TYR:CD1	3:F:104:TYR:C	2.92	0.47
1:B:871:ARG:CZ	1:B:922:LEU:HB3	2.45	0.46
1:B:3352:GLU:HG2	1:B:3353:LEU:H	1.79	0.46
1:B:4839:MET:HE1	1:G:4822:THR:HB	1.96	0.46
1:E:3713:LYS:NZ	1:E:3715:LYS:O	2.48	0.46
1:E:4093:PHE:CD1	1:E:4123:ILE:HD11	2.50	0.46
1:G:266:ARG:NH2	1:G:273:HIS:O	2.47	0.46
1:G:1079:LYS:HA	1:G:1189:LEU:HD11	1.97	0.46
1:G:1100:MET:HG2	1:G:1194:LEU:HG	1.97	0.46
1:G:1649:ASP:HB3	1:G:1652:GLU:HG3	1.96	0.46
1:G:3078:ARG:H	1:G:3078:ARG:HD2	1.80	0.46
1:G:3834:ALA:O	1:G:3838:THR:HG23	2.14	0.46
1:J:2489:LYS:HE3	1:J:2546:MET:HG2	1.98	0.46
1:J:2751:LEU:HD12	1:J:2754:PHE:HD2	1.79	0.46
1:J:2755:ILE:HD12	1:J:2813:LEU:HD13	1.97	0.46
1:J:2975:ALA:O	1:J:2978:GLU:HG2	2.15	0.46
1:J:3047:ALA:O	1:J:3051:ARG:N	2.47	0.46
1:J:3752:SER:HB2	1:J:3755:GLU:HG3	1.96	0.46
1:J:3780:LEU:HD11	1:J:3816:MET:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:VAL:HG21	1:B:202:MET:HE3	1.97	0.46
1:B:1170:MET:HE1	1:B:1176:GLU:HG2	1.96	0.46
1:B:1617:THR:HG22	1:B:1628:VAL:HG13	1.97	0.46
1:B:2489:LYS:HE3	1:B:2546:MET:HG2	1.98	0.46
1:B:2773:ASN:OD1	1:E:1508:ARG:NH2	2.40	0.46
1:B:3068:LEU:HA	1:B:3071:LEU:HD12	1.96	0.46
1:B:4090:LYS:HE2	1:B:4123:ILE:HG21	1.97	0.46
1:B:4157:ASP:N	1:B:4161:ARG:HH21	2.13	0.46
1:E:20:VAL:HG21	1:E:202:MET:HE3	1.97	0.46
1:E:1436:SER:OG	1:E:1565:GLU:HB2	2.15	0.46
1:E:1617:THR:HG22	1:E:1628:VAL:HG13	1.97	0.46
1:E:3068:LEU:HA	1:E:3071:LEU:HD12	1.96	0.46
1:E:3277:LEU:HG	1:E:3341:PHE:CZ	2.50	0.46
1:J:3144:PHE:CE2	1:J:3197:LEU:HB3	2.51	0.46
1:J:3272:ILE:C	1:J:3275:PRO:HD2	2.41	0.46
1:J:3592:ILE:HA	1:J:3595:ARG:HE	1.80	0.46
1:J:4157:ASP:N	1:J:4161:ARG:HH21	2.13	0.46
1:B:1100:MET:HG2	1:B:1194:LEU:HG	1.97	0.46
1:B:3209:GLN:HG2	1:B:3210:LEU:HG	1.98	0.46
1:B:3780:LEU:HD11	1:B:3816:MET:HG2	1.97	0.46
1:B:4068:LEU:O	1:B:4071:ILE:HG22	2.14	0.46
1:E:153:ALA:HB2	1:E:170:ILE:HG13	1.97	0.46
1:E:1931:LEU:HD22	1:E:1935:VAL:HG11	1.96	0.46
1:E:2381:GLU:O	1:E:2385:ARG:HG3	2.14	0.46
1:E:4083:ASP:HB3	1:E:4087:LEU:H	1.80	0.46
1:G:470:SER:HA	1:G:473:ASN:ND2	2.31	0.46
1:G:1867:GLU:HG2	1:G:1870:VAL:HG12	1.97	0.46
1:J:470:SER:HA	1:J:473:ASN:ND2	2.31	0.46
1:J:981:GLN:O	1:J:985:VAL:HG23	2.15	0.46
1:J:1100:MET:HG2	1:J:1194:LEU:HG	1.97	0.46
1:J:2715:VAL:HG12	1:J:2954:ARG:HA	1.97	0.46
1:J:3417:ASP:OD1	1:J:3516:LYS:HE2	2.14	0.46
1:J:4068:LEU:O	1:J:4071:ILE:HG22	2.15	0.46
1:B:2693:GLN:HB3	1:B:2697:ARG:HH22	1.81	0.46
1:B:3758:MET:O	1:B:3762:ARG:HG2	2.16	0.46
1:B:3927:GLN:NE2	1:B:3991:GLY:HA3	2.31	0.46
1:E:470:SER:HA	1:E:473:ASN:ND2	2.31	0.46
1:E:1079:LYS:HA	1:E:1189:LEU:HD11	1.97	0.46
1:E:2700:MET:N	1:E:2701:PRO:HD2	2.30	0.46
1:E:2973:PHE:CE1	1:E:2995:ILE:HG23	2.51	0.46
1:G:551:LEU:HB3	1:G:589:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:937:CYS:SG	1:G:984:LEU:HD22	2.56	0.46
1:G:2619:LEU:O	1:G:2623:LEU:HG	2.16	0.46
1:G:3018:LEU:HD13	1:G:3150:HIS:HE1	1.80	0.46
1:G:3713:LYS:NZ	1:G:3715:LYS:O	2.48	0.46
1:J:1727:ARG:NH2	1:J:1773:PRO:O	2.49	0.46
1:J:2765:LYS:HD3	1:J:2765:LYS:HA	1.67	0.46
1:B:14:LEU:HD13	1:B:202:MET:HG2	1.96	0.46
1:B:1180:ARG:HG3	1:B:1181:GLU:HG3	1.96	0.46
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.48	0.46
1:E:2489:LYS:HE3	1:E:2546:MET:HG2	1.97	0.46
1:E:2619:LEU:O	1:E:2623:LEU:HG	2.16	0.46
1:E:3505:VAL:HG23	1:E:3507:THR:H	1.80	0.46
1:G:2489:LYS:HE3	1:G:2546:MET:HG2	1.98	0.46
1:G:3272:ILE:C	1:G:3275:PRO:HD2	2.41	0.46
1:G:3505:VAL:HG23	1:G:3507:THR:H	1.80	0.46
1:J:1274:HIS:O	1:J:1559:GLN:NE2	2.33	0.46
1:J:2328:GLY:HA3	1:J:2425:PHE:HE2	1.79	0.46
1:J:2381:GLU:O	1:J:2385:ARG:HG3	2.14	0.46
1:J:3106:MET:HE2	1:J:3106:MET:N	2.29	0.46
2:I:78:PRO:HA	2:I:81:ALA:HB3	1.96	0.46
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.15	0.46
1:B:3078:ARG:H	1:B:3078:ARG:HD2	1.80	0.46
1:B:3391:GLU:O	1:B:3395:ARG:HG3	2.16	0.46
1:E:2715:VAL:HG12	1:E:2954:ARG:HA	1.97	0.46
1:E:3144:PHE:CE2	1:E:3197:LEU:HB3	2.51	0.46
1:E:3780:LEU:HD11	1:E:3816:MET:HG2	1.97	0.46
1:G:871:ARG:CZ	1:G:922:LEU:HB3	2.45	0.46
1:G:924:MET:O	1:G:928:THR:HG23	2.16	0.46
1:G:2975:ALA:O	1:G:2978:GLU:HG2	2.15	0.46
1:G:3277:LEU:HG	1:G:3341:PHE:CZ	2.50	0.46
1:G:4097:MET:SD	1:G:4108:ILE:HG23	2.56	0.46
1:J:937:CYS:SG	1:J:984:LEU:HD22	2.56	0.46
1:J:1436:SER:OG	1:J:1565:GLU:HB2	2.15	0.46
1:J:2700:MET:N	1:J:2701:PRO:HD2	2.30	0.46
1:J:3018:LEU:HD13	1:J:3150:HIS:HE1	1.80	0.46
1:J:3078:ARG:H	1:J:3078:ARG:HD2	1.80	0.46
1:J:3078:ARG:HG3	1:J:3082:LYS:HE3	1.97	0.46
1:J:3137:LEU:O	1:J:3141:THR:OG1	2.28	0.46
1:J:3277:LEU:HG	1:J:3341:PHE:CZ	2.50	0.46
1:J:3777:GLU:O	1:J:3781:GLN:HG3	2.15	0.46
3:F:105:ASN:OD1	3:F:111:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2670:GLU:HG3	1:B:2912:THR:HA	1.97	0.46
1:B:3043:PHE:CE1	1:B:3075:LEU:HD21	2.50	0.46
1:B:3144:PHE:CE2	1:B:3197:LEU:HB3	2.51	0.46
1:B:3272:ILE:C	1:B:3275:PRO:HD2	2.40	0.46
1:B:3777:GLU:O	1:B:3781:GLN:HG3	2.15	0.46
1:E:283:ARG:NH1	1:E:290:TYR:OH	2.49	0.46
1:E:551:LEU:HB3	1:E:589:LEU:HD21	1.98	0.46
1:E:2495:VAL:HB	1:E:2498:HIS:CD2	2.51	0.46
1:E:3272:ILE:C	1:E:3275:PRO:HD2	2.40	0.46
1:E:3717:ASP:OD1	1:E:3717:ASP:N	2.48	0.46
1:E:3777:GLU:O	1:E:3781:GLN:HG3	2.15	0.46
1:G:3209:GLN:HG2	1:G:3210:LEU:HG	1.98	0.46
1:G:3391:GLU:O	1:G:3395:ARG:HG3	2.16	0.46
1:G:4118:ASP:OD1	1:G:4119:GLU:N	2.49	0.46
1:J:2559:LEU:O	1:J:2563:THR:HG23	2.15	0.46
1:J:3051:ARG:NH2	1:J:3098:SER:HB3	2.31	0.46
1:J:3262:ARG:HG3	1:J:3326:ASN:ND2	2.28	0.46
1:J:3540:TYR:HA	1:J:3544:ASP:O	2.16	0.46
2:A:78:PRO:HA	2:A:81:ALA:HB3	1.97	0.46
1:B:171:LEU:HB2	1:B:180:LEU:HD13	1.98	0.46
1:B:921:ASN:O	1:B:924:MET:HB3	2.15	0.46
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.15	0.46
1:E:251:ALA:O	1:E:255:HIS:ND1	2.40	0.46
1:E:924:MET:CE	3:F:107:TRP:CD1	2.99	0.46
1:E:2559:LEU:O	1:E:2563:THR:HG23	2.15	0.46
1:E:3051:ARG:NH2	1:E:3098:SER:HB3	2.31	0.46
1:G:171:LEU:HB2	1:G:180:LEU:HD13	1.98	0.46
1:G:921:ASN:O	1:G:924:MET:HB3	2.15	0.46
1:G:3051:ARG:NH2	1:G:3098:SER:HB3	2.31	0.46
1:G:3078:ARG:HG3	1:G:3082:LYS:HE3	1.97	0.46
1:G:3755:GLU:O	1:G:3758:MET:HG3	2.15	0.46
1:G:4093:PHE:CD1	1:G:4123:ILE:HD11	2.50	0.46
1:J:984:LEU:O	1:J:988:LEU:HD23	2.15	0.46
1:J:1738:LEU:HD12	1:J:1738:LEU:HA	1.80	0.46
1:J:2639:MET:HE2	1:J:2639:MET:N	2.31	0.46
1:J:3927:GLN:NE2	1:J:3991:GLY:HA3	2.31	0.46
3:C:105:ASN:OD1	3:C:111:ASN:HB2	2.16	0.46
1:B:551:LEU:HB3	1:B:589:LEU:HD21	1.97	0.46
1:B:2639:MET:HE2	1:B:2639:MET:N	2.31	0.46
1:B:2755:ILE:HD12	1:B:2813:LEU:HD13	1.97	0.46
1:B:3078:ARG:HG3	1:B:3082:LYS:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3435:PHE:HZ	1:B:3602:VAL:HG21	1.81	0.46
1:B:3592:ILE:HA	1:B:3595:ARG:HE	1.80	0.46
1:E:861:ILE:HG21	1:E:933:LEU:HD22	1.98	0.46
1:E:924:MET:O	1:E:928:THR:HG23	2.16	0.46
1:E:2693:GLN:HB3	1:E:2697:ARG:HH22	1.81	0.46
1:E:3758:MET:O	1:E:3762:ARG:HG2	2.16	0.46
1:G:661:LYS:HG2	1:G:749:ASP:OD1	2.16	0.46
1:G:887:ILE:HG21	1:G:959:TYR:HA	1.97	0.46
1:G:984:LEU:O	1:G:988:LEU:HD23	2.15	0.46
1:G:1727:ARG:NH2	1:G:1773:PRO:O	2.48	0.46
1:G:2670:GLU:HG3	1:G:2912:THR:HA	1.97	0.46
1:G:3758:MET:O	1:G:3762:ARG:HG2	2.16	0.46
1:J:661:LYS:HG2	1:J:749:ASP:OD1	2.16	0.46
1:J:2619:LEU:O	1:J:2623:LEU:HG	2.16	0.46
1:J:3505:VAL:HG23	1:J:3507:THR:H	1.80	0.46
1:J:4093:PHE:CD1	1:J:4123:ILE:HD11	2.50	0.46
2:D:78:PRO:HA	2:D:81:ALA:HB3	1.97	0.46
3:K:32:ASN:ND2	3:K:101:PRO:HB3	2.31	0.46
3:M:105:ASN:ND2	3:M:107:TRP:HD1	2.12	0.46
1:B:222:LEU:O	1:B:230:CYS:HB3	2.16	0.46
1:B:283:ARG:NH1	1:B:290:TYR:OH	2.49	0.46
1:B:861:ILE:HG21	1:B:933:LEU:HD22	1.98	0.46
1:B:924:MET:O	1:B:928:THR:HG23	2.16	0.46
1:B:1000:ARG:NH2	3:C:115:ASP:O	2.49	0.46
1:B:3051:ARG:NH2	1:B:3098:SER:HB3	2.31	0.46
1:E:222:LEU:O	1:E:230:CYS:HB3	2.16	0.46
1:E:3391:GLU:O	1:E:3395:ARG:HG3	2.16	0.46
1:E:3592:ILE:HA	1:E:3595:ARG:HE	1.80	0.46
1:G:140:ASP:OD1	1:G:140:ASP:N	2.49	0.46
1:G:981:GLN:O	1:G:985:VAL:HG23	2.15	0.46
1:G:2523:ASP:OD1	1:G:2524:VAL:N	2.49	0.46
1:G:2973:PHE:CE1	1:G:2995:ILE:HG23	2.51	0.46
1:G:3445:TRP:HA	1:G:3451:PHE:CD1	2.49	0.46
1:J:1170:MET:HE1	1:J:1176:GLU:HG2	1.96	0.46
1:J:2523:ASP:OD1	1:J:2524:VAL:N	2.49	0.46
1:J:4107:GLU:O	1:J:4111:LEU:HG	2.16	0.46
2:A:17:LYS:N	2:A:20:GLN:OE1	2.49	0.46
3:C:104:TYR:C	3:C:104:TYR:CD1	2.94	0.46
3:K:105:ASN:OD1	3:K:111:ASN:HB2	2.16	0.46
1:B:2495:VAL:HB	1:B:2498:HIS:CD2	2.51	0.45
1:B:2619:LEU:O	1:B:2623:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2973:PHE:CE1	1:B:2995:ILE:HG23	2.51	0.45
1:B:3505:VAL:HG23	1:B:3507:THR:H	1.80	0.45
1:E:3989:VAL:HG13	1:E:4023:MET:CE	2.46	0.45
1:G:2639:MET:HE2	1:G:2639:MET:N	2.31	0.45
1:G:3144:PHE:CE2	1:G:3197:LEU:HB3	2.51	0.45
1:G:4068:LEU:O	1:G:4071:ILE:HG22	2.15	0.45
1:G:4157:ASP:N	1:G:4161:ARG:HH21	2.13	0.45
1:J:153:ALA:HB2	1:J:170:ILE:HG13	1.97	0.45
1:J:228:ASP:HA	1:J:247:TYR:HE1	1.82	0.45
1:J:1617:THR:HG22	1:J:1628:VAL:HG13	1.97	0.45
1:J:2689:LYS:HG2	1:J:2690:LYS:N	2.31	0.45
1:J:3223:SER:O	1:J:3227:ARG:HG3	2.17	0.45
1:J:3391:GLU:O	1:J:3395:ARG:HG3	2.16	0.45
1:B:77:ALA:O	1:B:81:MET:HG3	2.17	0.45
1:B:470:SER:HA	1:B:473:ASN:ND2	2.31	0.45
1:B:937:CYS:SG	1:B:984:LEU:HD22	2.56	0.45
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.97	0.45
1:B:2765:LYS:HD3	1:B:2765:LYS:HA	1.67	0.45
1:B:3717:ASP:N	1:B:3717:ASP:OD1	2.48	0.45
1:E:228:ASP:HA	1:E:247:TYR:HE1	1.82	0.45
1:E:2523:ASP:OD1	1:E:2524:VAL:N	2.49	0.45
1:E:3006:ILE:HD11	1:E:3071:LEU:HD21	1.97	0.45
1:E:3148:ALA:HB2	1:E:3200:ALA:HB2	1.98	0.45
1:G:222:LEU:O	1:G:230:CYS:HB3	2.16	0.45
1:G:2689:LYS:HG2	1:G:2690:LYS:N	2.31	0.45
1:G:3592:ILE:HA	1:G:3595:ARG:HE	1.80	0.45
1:J:921:ASN:O	1:J:924:MET:HB3	2.15	0.45
1:J:1079:LYS:HA	1:J:1189:LEU:HD11	1.97	0.45
1:B:3075:LEU:O	1:B:3146:HIS:HE1	1.99	0.45
1:B:3540:TYR:HA	1:B:3544:ASP:O	2.16	0.45
1:B:4097:MET:SD	1:B:4108:ILE:HG23	2.56	0.45
1:B:4107:GLU:O	1:B:4111:LEU:HG	2.16	0.45
1:B:4230:LYS:NZ	1:B:4231:MET:SD	2.84	0.45
1:B:5011:TRP:O	1:B:5015:GLN:HG3	2.15	0.45
1:E:171:LEU:HB2	1:E:180:LEU:HD13	1.98	0.45
1:E:921:ASN:O	1:E:924:MET:HB3	2.15	0.45
1:E:981:GLN:O	1:E:985:VAL:HG23	2.15	0.45
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.17	0.45
1:G:861:ILE:HG21	1:G:933:LEU:HD22	1.98	0.45
1:G:1617:THR:HG22	1:G:1628:VAL:HG13	1.97	0.45
1:G:3006:ILE:HD11	1:G:3071:LEU:HD21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3435:PHE:HZ	1:G:3602:VAL:HG21	1.81	0.45
1:J:861:ILE:HG21	1:J:933:LEU:HD22	1.98	0.45
1:J:1081:TYR:HD1	1:J:1230:MET:HE1	1.82	0.45
1:J:2765:LYS:HZ3	1:J:2857:PRO:HG2	1.80	0.45
1:J:3989:VAL:HG13	1:J:4023:MET:CE	2.46	0.45
1:B:23:GLN:HB3	1:B:34:LYS:HG2	1.99	0.45
1:B:981:GLN:O	1:B:985:VAL:HG23	2.15	0.45
1:B:2978:GLU:HB3	1:B:3056:LEU:HD11	1.99	0.45
1:B:3223:SER:O	1:B:3227:ARG:HG3	2.17	0.45
1:E:1727:ARG:NH2	1:E:1773:PRO:O	2.48	0.45
1:G:228:ASP:HA	1:G:247:TYR:HE1	1.82	0.45
1:G:2495:VAL:HB	1:G:2498:HIS:CD2	2.51	0.45
1:G:2693:GLN:HB3	1:G:2697:ARG:HH22	1.81	0.45
1:G:2978:GLU:HB3	1:G:3056:LEU:HD11	1.99	0.45
1:G:3540:TYR:HA	1:G:3544:ASP:O	2.16	0.45
1:J:2973:PHE:CE1	1:J:2995:ILE:HG23	2.51	0.45
1:J:3018:LEU:HD13	1:J:3150:HIS:CE1	2.51	0.45
1:J:4032:GLU:HG3	1:J:5006:GLN:HE21	1.81	0.45
1:J:4655:PHE:O	1:J:4659:ILE:HG12	2.17	0.45
2:H:25:HIS:HB3	2:H:40:ARG:CZ	2.47	0.45
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.49	0.45
1:B:937:CYS:HB3	1:B:1053:ILE:HG22	1.98	0.45
1:B:3018:LEU:HD13	1:B:3150:HIS:CE1	2.51	0.45
1:E:601:ASP:OD1	1:E:1668:ARG:NH2	2.49	0.45
1:E:1081:TYR:HD1	1:E:1230:MET:HE1	1.82	0.45
1:E:2639:MET:HE2	1:E:2639:MET:N	2.31	0.45
1:E:2689:LYS:HG2	1:E:2690:LYS:N	2.31	0.45
1:E:3075:LEU:O	1:E:3146:HIS:HE1	1.99	0.45
1:E:3223:SER:O	1:E:3227:ARG:HG3	2.17	0.45
1:G:4032:GLU:HG3	1:G:5006:GLN:HE21	1.81	0.45
1:G:4085:ARG:HH12	1:G:4122:MET:HE1	1.81	0.45
1:J:77:ALA:O	1:J:81:MET:HG3	2.17	0.45
1:J:222:LEU:O	1:J:230:CYS:HB3	2.16	0.45
1:J:601:ASP:OD1	1:J:1668:ARG:NH2	2.50	0.45
1:J:2208:MET:HE1	1:J:2253:HIS:CG	2.52	0.45
1:J:4085:ARG:HH12	1:J:4122:MET:HE1	1.81	0.45
1:J:4097:MET:SD	1:J:4108:ILE:HG23	2.56	0.45
2:A:25:HIS:HB3	2:A:40:ARG:CZ	2.47	0.45
2:I:17:LYS:N	2:I:20:GLN:OE1	2.49	0.45
1:B:228:ASP:HA	1:B:247:TYR:HE1	1.82	0.45
1:B:3148:ALA:HB2	1:B:3200:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:871:ARG:HB2	1:E:925:SER:HB3	1.99	0.45
1:E:887:ILE:HG21	1:E:959:TYR:HA	1.97	0.45
1:E:917:GLU:CB	3:F:104:TYR:HE2	2.23	0.45
1:E:2765:LYS:NZ	1:E:2860:PRO:HA	2.32	0.45
1:E:3018:LEU:HD13	1:E:3150:HIS:CE1	2.51	0.45
1:E:3693:LYS:HZ2	1:E:3694:LYS:HD2	1.82	0.45
1:G:871:ARG:HB2	1:G:925:SER:HB3	1.99	0.45
1:G:4230:LYS:NZ	1:G:4231:MET:SD	2.84	0.45
1:J:283:ARG:NH1	1:J:290:TYR:OH	2.49	0.45
1:J:2495:VAL:HB	1:J:2498:HIS:CD2	2.51	0.45
1:J:3075:LEU:O	1:J:3146:HIS:HE1	1.99	0.45
1:J:3327:LEU:HD22	1:J:3368:ARG:CZ	2.47	0.45
1:B:3006:ILE:HD11	1:B:3071:LEU:HD21	1.97	0.45
1:B:4032:GLU:HG3	1:B:5006:GLN:HE21	1.81	0.45
1:B:4093:PHE:CZ	1:B:4097:MET:HE2	2.51	0.45
1:E:487:VAL:O	1:E:491:ILE:HG13	2.17	0.45
1:E:661:LYS:HG2	1:E:749:ASP:OD1	2.16	0.45
1:E:937:CYS:SG	1:E:984:LEU:HD22	2.56	0.45
1:E:1100:MET:HG2	1:E:1194:LEU:HG	1.97	0.45
1:J:140:ASP:OD1	1:J:140:ASP:N	2.49	0.45
1:J:3148:ALA:HB2	1:J:3200:ALA:HB2	1.98	0.45
1:J:3209:GLN:HG2	1:J:3210:LEU:HG	1.98	0.45
1:J:4091:LYS:NZ	1:J:4092:ASP:OD1	2.48	0.45
1:B:487:VAL:O	1:B:491:ILE:HG13	2.17	0.45
1:B:871:ARG:HB2	1:B:925:SER:HB3	1.99	0.45
1:B:887:ILE:HG21	1:B:959:TYR:HA	1.97	0.45
1:B:4085:ARG:HH12	1:B:4122:MET:HE1	1.82	0.45
1:B:4767:TRP:O	1:B:4767:TRP:HD1	1.99	0.45
1:B:5017:ARG:HD3	1:B:5019:TRP:CZ2	2.52	0.45
1:E:127:MET:O	1:E:130:LYS:NZ	2.49	0.45
1:E:2208:MET:HE1	1:E:2253:HIS:CG	2.52	0.45
1:E:2702:CYS:O	1:E:2706:ILE:HD13	2.17	0.45
1:E:3927:GLN:NE2	1:E:3991:GLY:HA3	2.31	0.45
1:E:4107:GLU:O	1:E:4111:LEU:HG	2.16	0.45
1:E:4813:LEU:HD23	1:E:4813:LEU:HA	1.85	0.45
1:G:426:ARG:H	1:G:506:TYR:HA	1.82	0.45
1:G:3927:GLN:NE2	1:G:3991:GLY:HA3	2.31	0.45
1:G:4107:GLU:O	1:G:4111:LEU:HG	2.16	0.45
1:J:171:LEU:HB2	1:J:180:LEU:HD13	1.98	0.45
1:J:887:ILE:HG21	1:J:959:TYR:HA	1.97	0.45
1:J:924:MET:CE	3:K:107:TRP:CD1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3758:MET:O	1:J:3762:ARG:HG2	2.16	0.45
1:J:4093:PHE:CZ	1:J:4097:MET:HE2	2.51	0.45
2:I:25:HIS:HB3	2:I:40:ARG:CZ	2.47	0.45
3:F:32:ASN:ND2	3:F:101:PRO:HB3	2.32	0.45
3:K:104:TYR:CE1	3:K:106:PRO:HG3	2.46	0.45
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.90	0.45
1:B:3318:ASN:O	1:B:3322:ILE:HG12	2.17	0.45
1:B:4655:PHE:O	1:B:4659:ILE:HG12	2.16	0.45
1:E:424:LYS:HE2	1:E:424:LYS:HB2	1.85	0.45
1:E:937:CYS:HB3	1:E:1053:ILE:HG22	1.98	0.45
1:E:3327:LEU:HD22	1:E:3368:ARG:CZ	2.47	0.45
1:G:77:ALA:O	1:G:81:MET:HG3	2.17	0.45
1:G:283:ARG:NH1	1:G:290:TYR:OH	2.49	0.45
1:G:553:ARG:NH1	1:G:555:GLU:OE2	2.48	0.45
1:G:960:MET:HE2	1:G:963:ASN:HB2	1.99	0.45
1:G:2208:MET:HE1	1:G:2253:HIS:CG	2.52	0.45
1:G:2283:ASN:HB3	1:G:2286:LEU:HB2	1.99	0.45
1:G:3401:LEU:HD23	1:G:3401:LEU:HA	1.81	0.45
1:J:937:CYS:HB3	1:J:1053:ILE:HG22	1.98	0.45
1:J:3459:VAL:HG11	1:J:3505:VAL:HG11	1.99	0.45
1:B:173:SER:HB2	1:B:176:SER:O	2.17	0.45
1:B:251:ALA:O	1:B:255:HIS:ND1	2.40	0.45
1:B:426:ARG:H	1:B:506:TYR:HA	1.82	0.45
1:B:936:GLY:HA3	1:B:1056:PRO:HB3	1.99	0.45
1:B:2523:ASP:OD1	1:B:2524:VAL:N	2.49	0.45
1:B:2689:LYS:HG2	1:B:2690:LYS:N	2.31	0.45
1:B:2758:PHE:O	1:B:2762:THR:HG23	2.17	0.45
1:E:426:ARG:H	1:E:506:TYR:HA	1.82	0.45
1:E:613:ALA:HB1	1:E:618:GLN:HE22	1.83	0.45
1:E:864:PRO:N	1:E:865:PRO:HD2	2.32	0.45
1:E:3262:ARG:HG3	1:E:3326:ASN:ND2	2.28	0.45
1:E:3540:TYR:HA	1:E:3544:ASP:O	2.16	0.45
1:E:4065:PHE:HA	1:E:4068:LEU:HB2	1.99	0.45
1:E:4069:LYS:O	1:E:4072:VAL:HG12	2.17	0.45
1:E:4767:TRP:O	1:E:4767:TRP:HD1	1.99	0.45
1:G:340:LYS:HB2	1:G:344:SER:HB3	1.99	0.45
1:G:601:ASP:OD1	1:G:1668:ARG:NH2	2.50	0.45
1:G:874:LEU:O	1:G:878:ILE:HG12	2.17	0.45
1:G:2758:PHE:O	1:G:2762:THR:HG23	2.17	0.45
1:G:3075:LEU:O	1:G:3146:HIS:HE1	1.99	0.45
1:G:3223:SER:O	1:G:3227:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:874:LEU:O	1:J:878:ILE:HG12	2.17	0.45
1:J:924:MET:O	1:J:928:THR:HG23	2.16	0.45
1:J:2693:GLN:HB3	1:J:2697:ARG:HH22	1.81	0.45
1:J:2702:CYS:O	1:J:2706:ILE:HD13	2.17	0.45
1:J:2801:ASP:HA	1:J:2804:ILE:HG12	1.99	0.45
1:J:3006:ILE:HD11	1:J:3071:LEU:HD21	1.97	0.45
1:J:4767:TRP:O	1:J:4767:TRP:HD1	1.99	0.45
1:J:5017:ARG:HD3	1:J:5019:TRP:CZ2	2.52	0.45
3:M:104:TYR:CD1	3:M:104:TYR:C	2.95	0.45
1:B:371:VAL:HG12	1:B:373:LYS:H	1.82	0.44
1:B:2886:TRP:HA	1:B:2889:LYS:HG2	1.99	0.44
1:E:77:ALA:O	1:E:81:MET:HG3	2.17	0.44
1:E:728:ARG:NH2	1:E:1489:CYS:SG	2.90	0.44
1:E:3318:ASN:O	1:E:3322:ILE:HG12	2.17	0.44
1:E:3435:PHE:HZ	1:E:3602:VAL:HG21	1.81	0.44
1:G:487:VAL:O	1:G:491:ILE:HG13	2.17	0.44
1:G:864:PRO:N	1:G:865:PRO:HD2	2.32	0.44
1:G:937:CYS:HB3	1:G:1053:ILE:HG22	1.98	0.44
1:G:1943:LEU:HD13	1:G:2098:VAL:HG22	1.99	0.44
1:G:4093:PHE:CZ	1:G:4097:MET:HE2	2.51	0.44
1:G:4655:PHE:O	1:G:4659:ILE:HG12	2.17	0.44
1:G:5017:ARG:HD3	1:G:5019:TRP:CZ2	2.52	0.44
1:J:861:ILE:HD12	1:J:934:ALA:HA	2.00	0.44
1:J:2758:PHE:O	1:J:2762:THR:HG23	2.17	0.44
1:B:246:TYR:CE1	1:B:373:LYS:HE3	2.52	0.44
1:B:2208:MET:HE1	1:B:2253:HIS:CG	2.52	0.44
1:B:3979:SER:O	1:B:3983:SER:OG	2.31	0.44
1:E:24:CYS:HB2	1:E:200:TRP:CE3	2.53	0.44
1:E:553:ARG:NH1	1:E:555:GLU:OE2	2.48	0.44
1:E:2700:MET:CE	1:E:2701:PRO:HD3	2.43	0.44
1:E:2978:GLU:HB3	1:E:3056:LEU:HD11	1.99	0.44
1:E:4093:PHE:CZ	1:E:4097:MET:HE2	2.52	0.44
1:E:4097:MET:SD	1:E:4108:ILE:HG23	2.56	0.44
1:E:5017:ARG:HD3	1:E:5019:TRP:CZ2	2.52	0.44
1:G:861:ILE:HD12	1:G:934:ALA:HA	2.00	0.44
1:G:913:LEU:HD11	1:G:922:LEU:HD11	2.00	0.44
1:G:936:GLY:HA3	1:G:1056:PRO:HB3	1.99	0.44
1:G:2865:VAL:HG23	1:G:2928:LYS:HZ1	1.81	0.44
1:G:3018:LEU:HD13	1:G:3150:HIS:CE1	2.51	0.44
1:J:426:ARG:H	1:J:506:TYR:HA	1.82	0.44
1:J:1943:LEU:HD13	1:J:2098:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3717:ASP:OD1	1:J:3717:ASP:N	2.48	0.44
1:J:4157:ASP:H	1:J:4161:ARG:HH21	1.66	0.44
3:M:101:PRO:HD2	3:M:104:TYR:O	2.17	0.44
1:B:2283:ASN:HB3	1:B:2286:LEU:HB2	1.99	0.44
1:B:2765:LYS:NZ	1:B:2860:PRO:HA	2.32	0.44
1:B:3372:VAL:HG12	1:B:3398:PHE:CZ	2.52	0.44
1:B:4920:PHE:O	1:B:4924:VAL:HG22	2.17	0.44
1:E:2608:MET:HE2	1:E:2608:MET:HB3	1.76	0.44
1:E:2886:TRP:HA	1:E:2889:LYS:HG2	1.99	0.44
1:E:3651:ASN:O	1:E:3655:GLU:HG2	2.18	0.44
1:E:4666:VAL:O	1:E:4670:ILE:HG12	2.18	0.44
1:G:23:GLN:HB3	1:G:34:LYS:HG2	1.99	0.44
1:G:1667:LEU:O	1:G:1671:ARG:HG3	2.18	0.44
1:G:1860:LYS:O	1:G:1864:LYS:HG2	2.18	0.44
1:G:2420:HIS:HB2	1:G:2492:ALA:HA	1.99	0.44
1:G:3148:ALA:HB2	1:G:3200:ALA:HB2	1.98	0.44
1:G:3372:VAL:HG12	1:G:3398:PHE:CZ	2.52	0.44
1:G:4157:ASP:H	1:G:4161:ARG:HH21	1.66	0.44
1:J:871:ARG:HB2	1:J:925:SER:HB3	1.99	0.44
1:J:1667:LEU:O	1:J:1671:ARG:HG3	2.18	0.44
1:J:2978:GLU:HB3	1:J:3056:LEU:HD11	1.99	0.44
1:B:960:MET:HE2	1:B:963:ASN:HB2	1.99	0.44
1:B:1274:HIS:O	1:B:1559:GLN:NE2	2.33	0.44
1:B:3327:LEU:HD22	1:B:3368:ARG:CZ	2.47	0.44
1:E:936:GLY:HA3	1:E:1056:PRO:HB3	2.00	0.44
1:E:2865:VAL:HG23	1:E:2928:LYS:HZ1	1.83	0.44
1:E:3039:ILE:O	1:E:3043:PHE:HD1	2.00	0.44
1:E:3040:THR:OG1	1:E:3080:VAL:HG12	2.18	0.44
1:E:4230:LYS:NZ	1:E:4231:MET:SD	2.84	0.44
1:G:173:SER:HB2	1:G:176:SER:O	2.17	0.44
1:G:728:ARG:NH2	1:G:1489:CYS:SG	2.90	0.44
1:G:1123:VAL:HG12	1:G:1132:TRP:HB3	1.99	0.44
1:G:4920:PHE:O	1:G:4924:VAL:HG22	2.17	0.44
1:J:131:LEU:O	1:J:178:ARG:NH2	2.46	0.44
1:J:340:LYS:HB2	1:J:344:SER:HB3	1.99	0.44
1:J:728:ARG:NH2	1:J:1489:CYS:SG	2.90	0.44
1:J:913:LEU:HD11	1:J:922:LEU:HD11	1.99	0.44
1:J:2765:LYS:NZ	1:J:2860:PRO:HA	2.32	0.44
1:J:3039:ILE:O	1:J:3043:PHE:HD1	2.00	0.44
3:F:104:TYR:CE1	3:F:106:PRO:HG3	2.46	0.44
1:B:613:ALA:HB1	1:B:618:GLN:HE22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:864:PRO:N	1:B:865:PRO:HD2	2.32	0.44
1:B:874:LEU:O	1:B:878:ILE:HG12	2.17	0.44
1:B:3207:GLU:HG3	1:B:3246:LEU:HD21	1.99	0.44
1:B:4157:ASP:H	1:B:4161:ARG:HH21	1.66	0.44
1:E:3209:GLN:HG2	1:E:3210:LEU:HG	1.98	0.44
1:G:247:TYR:HD2	1:G:372:LEU:HB3	1.80	0.44
1:G:3039:ILE:O	1:G:3043:PHE:HD1	2.00	0.44
1:G:3327:LEU:HD22	1:G:3368:ARG:CZ	2.47	0.44
1:G:3989:VAL:HG13	1:G:4023:MET:CE	2.46	0.44
1:J:24:CYS:HB2	1:J:200:TRP:CE3	2.53	0.44
1:J:3651:ASN:O	1:J:3655:GLU:HG2	2.18	0.44
1:J:4028:LEU:HD23	1:J:4146:LEU:HD13	2.00	0.44
1:B:4118:ASP:OD1	1:B:4119:GLU:N	2.49	0.44
1:B:4157:ASP:HB3	1:B:4160:LEU:HB3	2.00	0.44
1:E:222:LEU:C	1:E:230:CYS:HB3	2.43	0.44
1:E:2686:LEU:HD22	1:E:2696:TYR:CZ	2.52	0.44
1:E:3049:LEU:HB3	1:E:3057:PHE:CE1	2.53	0.44
1:E:4120:ASN:HB2	1:E:4122:MET:HG2	2.00	0.44
1:G:2765:LYS:HA	1:G:2765:LYS:HD3	1.67	0.44
1:G:2765:LYS:NZ	1:G:2860:PRO:HA	2.32	0.44
1:G:2813:LEU:HA	1:G:2816:MET:SD	2.58	0.44
1:G:4666:VAL:O	1:G:4670:ILE:HG12	2.18	0.44
1:G:4767:TRP:O	1:G:4767:TRP:HD1	1.99	0.44
1:J:936:GLY:HA3	1:J:1056:PRO:HB3	1.99	0.44
1:J:2813:LEU:HA	1:J:2816:MET:SD	2.58	0.44
1:J:3318:ASN:O	1:J:3322:ILE:HG12	2.17	0.44
2:D:25:HIS:HB3	2:D:40:ARG:CZ	2.47	0.44
3:M:30:SER:HB3	3:M:99:ARG:CB	2.48	0.44
1:B:81:MET:HE2	1:B:81:MET:HB2	1.94	0.44
1:B:222:LEU:C	1:B:230:CYS:HB3	2.43	0.44
1:B:961:MET:C	1:B:961:MET:HE2	2.43	0.44
1:B:1667:LEU:O	1:B:1671:ARG:HG3	2.18	0.44
1:B:1758:ARG:NH2	1:B:2036:GLN:OE1	2.51	0.44
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.18	0.44
1:B:3040:THR:OG1	1:B:3080:VAL:HG12	2.18	0.44
1:B:4065:PHE:HA	1:B:4068:LEU:HB2	1.99	0.44
1:B:4069:LYS:O	1:B:4072:VAL:HG12	2.17	0.44
1:B:4666:VAL:O	1:B:4670:ILE:HG12	2.18	0.44
1:E:4032:GLU:HG3	1:E:5006:GLN:HE21	1.81	0.44
1:E:4157:ASP:H	1:E:4161:ARG:HH21	1.65	0.44
1:G:131:LEU:O	1:G:178:ARG:NH2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:499:THR:HG23	1:G:502:HIS:H	1.83	0.44
1:G:735:GLN:OE1	1:G:735:GLN:HA	2.18	0.44
1:G:2886:TRP:HA	1:G:2889:LYS:HG2	1.99	0.44
1:J:173:SER:HB2	1:J:176:SER:O	2.17	0.44
1:J:487:VAL:O	1:J:491:ILE:HG13	2.17	0.44
1:J:917:GLU:CB	3:K:104:TYR:HE2	2.23	0.44
1:J:1123:VAL:HG12	1:J:1132:TRP:HB3	1.99	0.44
1:J:3249:LEU:HD21	1:J:3276:MET:HE3	2.00	0.44
1:J:4118:ASP:OD1	1:J:4119:GLU:N	2.49	0.44
1:B:1081:TYR:HD1	1:B:1230:MET:HE1	1.82	0.44
1:B:1738:LEU:HD12	1:B:1738:LEU:HA	1.80	0.44
1:B:2010:LEU:HD12	1:B:3656:SER:HB2	2.00	0.44
1:B:2813:LEU:HA	1:B:2816:MET:SD	2.58	0.44
1:B:3039:ILE:O	1:B:3043:PHE:HD1	2.00	0.44
1:B:4945:ASP:O	1:B:4948:GLU:HG3	2.18	0.44
1:E:874:LEU:O	1:E:878:ILE:HG12	2.17	0.44
1:E:1815:LEU:HD22	1:E:1845:VAL:HG21	2.00	0.44
1:E:2801:ASP:HA	1:E:2804:ILE:HG12	1.99	0.44
1:E:3207:GLU:HG3	1:E:3246:LEU:HD21	1.99	0.44
1:E:3459:VAL:HG11	1:E:3505:VAL:HG11	1.99	0.44
1:G:3546:ASP:O	1:G:3550:ARG:HG2	2.18	0.44
1:J:23:GLN:HB3	1:J:34:LYS:HG2	1.99	0.44
1:J:961:MET:C	1:J:961:MET:HE2	2.43	0.44
1:J:2538:THR:O	1:J:2542:SER:N	2.42	0.44
1:J:3040:THR:OG1	1:J:3080:VAL:HG12	2.18	0.44
1:J:3207:GLU:HG3	1:J:3246:LEU:HD21	1.99	0.44
1:J:4120:ASN:HB2	1:J:4122:MET:HG2	2.00	0.44
1:B:298:GLY:HA3	1:B:378:LEU:H	1.83	0.44
1:B:661:LYS:HG2	1:B:749:ASP:OD1	2.16	0.44
1:B:2686:LEU:HD22	1:B:2696:TYR:CZ	2.52	0.44
1:B:2825:LYS:HG3	1:B:2935:TYR:CE1	2.53	0.44
1:B:3844:LEU:HD11	1:E:76:ARG:HH21	1.83	0.44
1:E:913:LEU:HD11	1:E:922:LEU:HD11	1.99	0.44
1:E:2713:ASP:HA	1:E:2954:ARG:HD3	2.00	0.44
1:E:4157:ASP:HB3	1:E:4160:LEU:HB3	2.00	0.44
1:G:917:GLU:CB	3:M:104:TYR:HE2	2.25	0.44
1:G:1081:TYR:HD1	1:G:1230:MET:HE1	1.81	0.44
1:G:2702:CYS:O	1:G:2706:ILE:HD13	2.17	0.44
1:G:3207:GLU:HG3	1:G:3246:LEU:HD21	1.99	0.44
1:G:3318:ASN:O	1:G:3322:ILE:HG12	2.17	0.44
1:G:3969:ILE:HG21	1:G:3980:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:298:GLY:HA3	1:J:378:LEU:H	1.83	0.44
1:J:613:ALA:HB1	1:J:618:GLN:HE22	1.83	0.44
1:J:2352:VAL:O	1:J:2356:LEU:HG	2.18	0.44
1:J:2865:VAL:HG23	1:J:2928:LYS:HZ1	1.82	0.44
1:J:2886:TRP:HA	1:J:2889:LYS:HG2	1.99	0.44
1:J:3420:ARG:NH1	1:J:3516:LYS:O	2.51	0.44
1:J:4069:LYS:O	1:J:4072:VAL:HG12	2.17	0.44
2:H:17:LYS:N	2:H:20:GLN:OE1	2.49	0.44
1:B:340:LYS:HB2	1:B:344:SER:HB3	1.99	0.43
1:B:1694:LEU:HB3	1:B:1715:LEU:HD12	1.99	0.43
1:B:2420:HIS:HB2	1:B:2492:ALA:HA	1.99	0.43
1:B:3100:SER:HB2	1:B:3167:ARG:NH2	2.33	0.43
1:E:3372:VAL:HG12	1:E:3398:PHE:CZ	2.52	0.43
1:E:4085:ARG:HH12	1:E:4122:MET:HE1	1.82	0.43
1:E:4118:ASP:OD1	1:E:4119:GLU:N	2.49	0.43
1:E:4145:VAL:HG22	1:E:4178:LEU:HD13	2.00	0.43
1:G:961:MET:C	1:G:961:MET:HE2	2.43	0.43
1:G:1758:ARG:NH2	1:G:2036:GLN:OE1	2.51	0.43
1:G:4157:ASP:HB3	1:G:4160:LEU:HB3	2.00	0.43
1:J:133:PHE:HB2	1:J:193:ALA:HB3	2.00	0.43
1:J:864:PRO:N	1:J:865:PRO:HD2	2.32	0.43
1:J:960:MET:HE2	1:J:963:ASN:HB2	1.99	0.43
1:J:1860:LYS:O	1:J:1864:LYS:HG2	2.18	0.43
1:J:3546:ASP:O	1:J:3550:ARG:HG2	2.18	0.43
1:J:4157:ASP:HB3	1:J:4160:LEU:HB3	2.00	0.43
2:D:17:LYS:N	2:D:20:GLN:OE1	2.49	0.43
1:B:861:ILE:HD12	1:B:934:ALA:HA	2.00	0.43
1:B:877:ASN:O	1:B:881:LEU:HG	2.18	0.43
1:B:1123:VAL:HG12	1:B:1132:TRP:HB3	1.99	0.43
1:B:1828:ASP:N	1:B:1828:ASP:OD1	2.51	0.43
1:B:2280:VAL:HG21	1:B:2290:LEU:HD11	2.00	0.43
1:B:3049:LEU:HB3	1:B:3057:PHE:CE1	2.53	0.43
1:B:3366:ARG:NH1	1:B:3437:MET:SD	2.91	0.43
1:E:23:GLN:HB3	1:E:34:LYS:HG2	1.99	0.43
1:E:1758:ARG:NH2	1:E:2036:GLN:OE1	2.51	0.43
1:E:1860:LYS:O	1:E:1864:LYS:HG2	2.18	0.43
1:E:3979:SER:O	1:E:3983:SER:OG	2.31	0.43
1:E:4068:LEU:HD23	1:E:4068:LEU:HA	1.90	0.43
1:E:4920:PHE:O	1:E:4924:VAL:HG22	2.17	0.43
1:G:877:ASN:O	1:G:881:LEU:HG	2.18	0.43
1:G:1694:LEU:HB3	1:G:1715:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2700:MET:CE	1:G:2701:PRO:HD3	2.43	0.43
1:G:2825:LYS:HG3	1:G:2935:TYR:CE1	2.53	0.43
1:G:3262:ARG:HB2	1:G:3325:ASN:ND2	2.34	0.43
1:G:4768:LEU:HB3	1:G:4769:MET:HE2	2.00	0.43
1:J:222:LEU:C	1:J:230:CYS:HB3	2.43	0.43
1:J:2686:LEU:HD22	1:J:2696:TYR:CZ	2.52	0.43
1:J:3366:ARG:NH1	1:J:3437:MET:SD	2.91	0.43
1:J:3435:PHE:HZ	1:J:3602:VAL:HG21	1.81	0.43
1:J:4731:ILE:HD13	1:J:4731:ILE:HA	1.88	0.43
1:J:4920:PHE:O	1:J:4924:VAL:HG22	2.17	0.43
1:B:499:THR:HG23	1:B:502:HIS:H	1.83	0.43
1:B:1094:ALA:HB1	1:B:1100:MET:HE1	2.00	0.43
1:B:2702:CYS:O	1:B:2706:ILE:HD13	2.17	0.43
1:B:2801:ASP:HA	1:B:2804:ILE:HG12	1.99	0.43
1:B:3398:PHE:CE1	1:B:3451:PHE:HB2	2.54	0.43
1:B:3651:ASN:O	1:B:3655:GLU:HG2	2.18	0.43
1:B:3836:MET:HE2	1:B:3836:MET:HB2	1.96	0.43
1:E:20:VAL:HG12	1:E:22:LEU:H	1.83	0.43
1:E:173:SER:HB2	1:E:176:SER:O	2.17	0.43
1:E:861:ILE:HD12	1:E:934:ALA:HA	2.00	0.43
1:E:2312:MET:H	1:E:2312:MET:HG3	1.70	0.43
1:E:2758:PHE:O	1:E:2762:THR:HG23	2.17	0.43
1:E:3249:LEU:HD21	1:E:3276:MET:HE3	2.00	0.43
1:E:3546:ASP:O	1:E:3550:ARG:HG2	2.18	0.43
1:E:4768:LEU:C	1:E:4769:MET:HE2	2.43	0.43
1:E:4945:ASP:O	1:E:4948:GLU:HG3	2.18	0.43
1:G:244:LEU:HD23	1:G:375:LYS:HZ2	1.82	0.43
1:G:2325:PRO:HG2	1:G:2422:ILE:HD13	2.00	0.43
1:G:2686:LEU:HD22	1:G:2696:TYR:CZ	2.52	0.43
1:G:3040:THR:OG1	1:G:3080:VAL:HG12	2.18	0.43
1:G:3420:ARG:NH1	1:G:3516:LYS:O	2.51	0.43
1:G:4949:GLN:NE2	1:G:4953:ASP:OD2	2.52	0.43
1:J:20:VAL:HG12	1:J:22:LEU:H	1.83	0.43
1:J:2894:LEU:HD21	1:J:2901:THR:HA	2.00	0.43
1:J:3372:VAL:HG12	1:J:3398:PHE:CZ	2.53	0.43
1:J:3398:PHE:CE1	1:J:3451:PHE:HB2	2.54	0.43
1:J:3944:GLU:HG2	1:J:3946:GLN:H	1.83	0.43
1:J:3969:ILE:HG21	1:J:3980:LEU:HD12	2.00	0.43
1:J:4065:PHE:HA	1:J:4068:LEU:HB2	1.99	0.43
1:J:4768:LEU:C	1:J:4769:MET:HE2	2.43	0.43
1:B:553:ARG:NH1	1:B:555:GLU:OE2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1993:ARG:O	1:B:1997:GLU:HG2	2.19	0.43
1:B:3262:ARG:HB2	1:B:3325:ASN:ND2	2.34	0.43
1:B:3546:ASP:O	1:B:3550:ARG:HG2	2.18	0.43
1:B:3562:LYS:HE2	1:B:3562:LYS:HB2	1.81	0.43
1:B:4077:PHE:HE1	1:B:4088:ILE:HG12	1.84	0.43
1:E:901:LYS:HG2	1:E:901:LYS:O	2.18	0.43
1:E:1094:ALA:HB1	1:E:1100:MET:HE1	2.00	0.43
1:E:1667:LEU:O	1:E:1671:ARG:HG3	2.18	0.43
1:E:1694:LEU:HB3	1:E:1715:LEU:HD12	1.99	0.43
1:E:2283:ASN:HB3	1:E:2286:LEU:HB2	1.99	0.43
1:E:2813:LEU:HA	1:E:2816:MET:SD	2.58	0.43
1:E:4676:GLU:O	1:E:4680:LYS:HG2	2.19	0.43
1:G:2713:ASP:HA	1:G:2954:ARG:HD3	2.00	0.43
1:J:477:LEU:O	1:J:480:GLU:HG3	2.19	0.43
1:J:901:LYS:O	1:J:901:LYS:HG2	2.18	0.43
1:J:1694:LEU:HB3	1:J:1715:LEU:HD12	1.99	0.43
1:J:4666:VAL:O	1:J:4670:ILE:HG12	2.18	0.43
1:B:2431:ASP:HB2	1:B:2501:SER:HB2	2.01	0.43
1:B:3249:LEU:HD21	1:B:3276:MET:HE3	2.00	0.43
1:B:3406:TYR:HE1	1:B:3509:LEU:HG	1.83	0.43
1:E:877:ASN:O	1:E:881:LEU:HG	2.18	0.43
1:E:2568:LEU:HD12	1:E:2568:LEU:O	2.19	0.43
1:E:2765:LYS:HD3	1:E:2765:LYS:HA	1.67	0.43
1:E:2773:ASN:OD1	1:J:1508:ARG:NH2	2.39	0.43
1:E:2894:LEU:HD21	1:E:2901:THR:HA	2.01	0.43
1:E:3060:ASP:O	1:E:3064:VAL:HG23	2.19	0.43
1:E:3350:ARG:NE	1:E:3350:ARG:HA	2.34	0.43
1:E:3366:ARG:NH1	1:E:3437:MET:SD	2.91	0.43
1:E:3398:PHE:CE1	1:E:3451:PHE:HB2	2.53	0.43
1:E:3408:LEU:HD12	1:E:3408:LEU:HA	1.81	0.43
1:E:4574:ASN:ND2	1:E:4810:ALA:HA	2.29	0.43
1:G:24:CYS:HB2	1:G:200:TRP:CE3	2.53	0.43
1:G:1828:ASP:OD1	1:G:1828:ASP:N	2.51	0.43
1:G:3944:GLU:HG2	1:G:3946:GLN:H	1.83	0.43
1:J:247:TYR:HD2	1:J:372:LEU:O	2.01	0.43
1:J:365:LYS:O	1:J:369:LEU:HG	2.18	0.43
1:J:2283:ASN:HB3	1:J:2286:LEU:HB2	1.99	0.43
1:J:3408:LEU:HA	1:J:3408:LEU:HD12	1.81	0.43
1:J:4026:MET:HE3	1:J:4026:MET:HB3	1.94	0.43
1:B:1032:LYS:HB3	1:B:1036:ARG:NH2	2.33	0.43
1:B:2764:GLU:HG3	1:B:2857:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4949:GLN:NE2	1:B:4953:ASP:OD2	2.52	0.43
1:E:246:TYR:HE1	1:E:375:LYS:HZ3	1.66	0.43
1:E:735:GLN:HA	1:E:735:GLN:OE1	2.18	0.43
1:E:960:MET:HE2	1:E:963:ASN:HB2	1.99	0.43
1:E:961:MET:HE2	1:E:961:MET:C	2.43	0.43
1:E:1559:GLN:NE2	1:E:1559:GLN:O	2.52	0.43
1:E:2452:ARG:O	1:E:2456:ILE:HG13	2.19	0.43
1:E:2825:LYS:HG3	1:E:2935:TYR:CE1	2.53	0.43
1:E:2867:LEU:HD12	1:E:2867:LEU:HA	1.82	0.43
1:E:4077:PHE:HE1	1:E:4088:ILE:HG12	1.84	0.43
1:G:20:VAL:HG12	1:G:22:LEU:H	1.83	0.43
1:G:133:PHE:HB2	1:G:193:ALA:HB3	2.00	0.43
1:G:1032:LYS:HB3	1:G:1036:ARG:NH2	2.33	0.43
1:G:1993:ARG:O	1:G:1997:GLU:HG2	2.19	0.43
1:G:3350:ARG:NE	1:G:3350:ARG:HA	2.34	0.43
1:G:3366:ARG:NH1	1:G:3437:MET:SD	2.91	0.43
1:G:4028:LEU:HD23	1:G:4146:LEU:HD13	2.00	0.43
1:G:4069:LYS:O	1:G:4072:VAL:HG12	2.17	0.43
1:G:4768:LEU:C	1:G:4769:MET:HE2	2.43	0.43
1:G:4945:ASP:O	1:G:4948:GLU:HG3	2.18	0.43
1:J:1559:GLN:NE2	1:J:1559:GLN:O	2.52	0.43
1:J:2431:ASP:HB2	1:J:2501:SER:HB2	2.01	0.43
1:J:2568:LEU:HD12	1:J:2568:LEU:O	2.19	0.43
1:J:4077:PHE:HE1	1:J:4088:ILE:HG12	1.84	0.43
1:B:20:VAL:HG12	1:B:22:LEU:H	1.83	0.43
1:B:24:CYS:HB2	1:B:200:TRP:CE3	2.53	0.43
1:B:913:LEU:HD11	1:B:922:LEU:HD11	1.99	0.43
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	2.00	0.43
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.18	0.43
1:B:2713:ASP:HA	1:B:2954:ARG:HD3	2.00	0.43
1:B:3459:VAL:HG11	1:B:3505:VAL:HG11	1.99	0.43
1:B:3962:PHE:O	1:B:3966:THR:HG23	2.19	0.43
1:B:4120:ASN:HB2	1:B:4122:MET:HG2	2.00	0.43
1:B:4768:LEU:C	1:B:4769:MET:HE2	2.43	0.43
1:E:1032:LYS:HB3	1:E:1036:ARG:NH2	2.33	0.43
1:E:1993:ARG:O	1:E:1997:GLU:HG2	2.19	0.43
1:E:2352:VAL:O	1:E:2356:LEU:HG	2.18	0.43
1:E:2969:ILE:O	1:E:2972:GLU:HG3	2.19	0.43
1:E:3100:SER:HB2	1:E:3167:ARG:NH2	2.33	0.43
1:E:4184:MET:HA	1:E:4190:ILE:HD13	2.01	0.43
1:G:298:GLY:HA3	1:G:378:LEU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:365:LYS:O	1:G:369:LEU:HG	2.19	0.43
1:G:901:LYS:O	1:G:901:LYS:HG2	2.18	0.43
1:G:1094:ALA:HB1	1:G:1100:MET:HE1	2.01	0.43
1:G:2264:GLY:O	1:G:2268:GLN:HG2	2.19	0.43
1:G:2431:ASP:HB2	1:G:2501:SER:HB2	2.01	0.43
1:G:2452:ARG:O	1:G:2456:ILE:HG13	2.19	0.43
1:G:2894:LEU:HD21	1:G:2901:THR:HA	2.01	0.43
1:G:3249:LEU:HD21	1:G:3276:MET:HE3	2.00	0.43
1:G:4152:GLU:OE1	1:G:4194:TYR:OH	2.28	0.43
1:J:735:GLN:OE1	1:J:735:GLN:HA	2.18	0.43
1:J:1032:LYS:HB3	1:J:1036:ARG:NH2	2.33	0.43
1:J:3049:LEU:HB3	1:J:3057:PHE:CE1	2.53	0.43
1:J:3060:ASP:O	1:J:3064:VAL:HG23	2.19	0.43
1:J:3401:LEU:HD23	1:J:3401:LEU:HA	1.80	0.43
1:J:4768:LEU:HB3	1:J:4769:MET:HE2	2.00	0.43
3:K:32:ASN:OD1	3:K:33:SER:N	2.52	0.43
1:B:882:TRP:NE1	1:B:886:ARG:CZ	2.82	0.43
1:B:3969:ILE:HG21	1:B:3980:LEU:HD12	2.01	0.43
1:B:3989:VAL:HG13	1:B:4023:MET:CE	2.47	0.43
1:B:4028:LEU:HD23	1:B:4146:LEU:HD13	1.99	0.43
1:E:133:PHE:HB2	1:E:193:ALA:HB3	2.00	0.43
1:E:477:LEU:O	1:E:480:GLU:HG3	2.19	0.43
1:E:996:TRP:HA	1:E:999:ASP:OD2	2.19	0.43
1:E:1123:VAL:HG12	1:E:1132:TRP:HB3	1.99	0.43
1:E:1943:LEU:HD13	1:E:2098:VAL:HG22	2.00	0.43
1:E:2431:ASP:HB2	1:E:2501:SER:HB2	2.01	0.43
1:E:3268:HIS:CE1	1:E:3272:ILE:HG13	2.54	0.43
1:G:477:LEU:O	1:G:480:GLU:HG3	2.19	0.43
1:G:882:TRP:NE1	1:G:886:ARG:CZ	2.82	0.43
1:G:2655:TYR:OH	1:G:2671:GLU:OE2	2.31	0.43
1:G:3100:SER:HB2	1:G:3167:ARG:NH2	2.33	0.43
1:G:3651:ASN:O	1:G:3655:GLU:HG2	2.18	0.43
1:J:1815:LEU:HD22	1:J:1845:VAL:HG21	2.00	0.43
1:J:2420:HIS:HB2	1:J:2492:ALA:HA	1.99	0.43
1:J:3262:ARG:HB2	1:J:3325:ASN:ND2	2.34	0.43
1:J:3292:PRO:HA	1:J:3293:PRO:HD3	1.91	0.43
1:J:4676:GLU:O	1:J:4680:LYS:HG2	2.19	0.43
1:J:4945:ASP:O	1:J:4948:GLU:HG3	2.18	0.43
3:C:92:VAL:HG12	3:C:122:GLN:OE1	2.19	0.43
3:K:39:GLN:OE1	3:K:45:ARG:NH2	2.39	0.43
1:B:863:LEU:O	1:B:867:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:917:GLU:CB	3:C:104:TYR:HE2	2.25	0.43
1:B:1559:GLN:NE2	1:B:1559:GLN:O	2.52	0.43
1:B:1943:LEU:HD13	1:B:2098:VAL:HG22	2.00	0.43
1:B:2264:GLY:O	1:B:2268:GLN:HG2	2.19	0.43
1:B:4184:MET:HA	1:B:4190:ILE:HD13	2.01	0.43
1:B:4813:LEU:HD23	1:B:4813:LEU:HA	1.85	0.43
1:B:4998:LYS:HB2	1:B:4998:LYS:HE3	1.72	0.43
1:E:623:GLU:HG2	2:D:88:PRO:HB3	2.00	0.43
1:E:882:TRP:NE1	1:E:886:ARG:CZ	2.82	0.43
1:G:70:GLU:HG2	1:G:71:GLN:HG3	2.01	0.43
1:G:222:LEU:C	1:G:230:CYS:HB3	2.43	0.43
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.54	0.43
1:G:623:GLU:HG2	2:H:88:PRO:HB3	2.01	0.43
1:G:1012:ASP:HB3	1:G:1015:ALA:HB3	2.01	0.43
1:G:3039:ILE:O	1:G:3043:PHE:CD1	2.72	0.43
1:G:3060:ASP:O	1:G:3064:VAL:HG23	2.19	0.43
1:G:3266:MET:O	1:G:3270:ILE:HG12	2.19	0.43
1:G:4060:LYS:HA	1:G:4063:ASP:OD2	2.19	0.43
1:G:4077:PHE:HE1	1:G:4088:ILE:HG12	1.84	0.43
1:G:4676:GLU:O	1:G:4680:LYS:HG2	2.19	0.43
1:J:1537:ASN:OD1	1:J:1537:ASN:N	2.47	0.43
1:J:2264:GLY:O	1:J:2268:GLN:HG2	2.19	0.43
1:J:2924:GLN:O	1:J:2928:LYS:HG2	2.19	0.43
1:J:4687:TYR:OH	1:J:4699:GLY:O	2.36	0.43
3:F:13:GLN:OE1	3:F:13:GLN:N	2.37	0.43
3:M:32:ASN:OD1	3:M:33:SER:N	2.52	0.43
1:B:133:PHE:HB2	1:B:193:ALA:HB3	2.00	0.43
1:B:745:SER:HB2	1:B:758:ARG:HG2	2.01	0.43
1:B:3039:ILE:O	1:B:3043:PHE:CD1	2.72	0.43
1:B:3060:ASP:O	1:B:3064:VAL:HG23	2.19	0.43
1:B:3268:HIS:CE1	1:B:3272:ILE:HG13	2.54	0.43
1:B:3350:ARG:NE	1:B:3350:ARG:HA	2.34	0.43
1:B:3722:TYR:OH	1:B:3782:MET:HG3	2.19	0.43
1:E:1601:MET:HE3	1:E:1601:MET:HB3	1.89	0.43
1:E:2420:HIS:HB2	1:E:2492:ALA:HA	1.99	0.43
1:E:3207:GLU:HG3	1:E:3246:LEU:CD2	2.49	0.43
1:G:1559:GLN:NE2	1:G:1559:GLN:O	2.52	0.43
1:G:1708:ARG:O	1:G:1712:TYR:HD1	2.02	0.43
1:G:1964:ARG:O	1:G:1968:LYS:NZ	2.46	0.43
1:G:2352:VAL:O	1:G:2356:LEU:HG	2.18	0.43
1:G:3722:TYR:OH	1:G:3782:MET:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3987:ASP:N	1:G:3987:ASP:OD1	2.52	0.43
1:G:4120:ASN:HB2	1:G:4122:MET:HG2	2.00	0.43
1:J:1993:ARG:O	1:J:1997:GLU:HG2	2.19	0.43
1:J:2010:LEU:HD12	1:J:3656:SER:HB2	2.00	0.43
1:J:2713:ASP:HA	1:J:2954:ARG:HD3	2.00	0.43
1:J:2825:LYS:HG3	1:J:2935:TYR:CE1	2.53	0.43
1:J:2909:ASP:N	1:J:2909:ASP:OD1	2.52	0.43
1:J:3100:SER:HB2	1:J:3167:ARG:NH2	2.33	0.43
1:J:3546:ASP:OD1	1:J:3546:ASP:N	2.52	0.43
1:J:4145:VAL:HG22	1:J:4178:LEU:HD13	2.00	0.43
1:J:4949:GLN:NE2	1:J:4953:ASP:OD2	2.52	0.43
3:F:30:SER:HB3	3:F:99:ARG:CB	2.49	0.43
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.19	0.42
1:B:3207:GLU:HG3	1:B:3246:LEU:CD2	2.49	0.42
1:B:3266:MET:O	1:B:3270:ILE:HG12	2.19	0.42
1:B:4071:ILE:O	1:B:4074:SER:OG	2.36	0.42
1:B:4768:LEU:HB3	1:B:4769:MET:HE2	2.00	0.42
1:E:340:LYS:HB2	1:E:344:SER:HB3	1.99	0.42
1:E:377:ILE:HG22	1:E:378:LEU:N	2.34	0.42
1:E:3183:VAL:HG23	1:E:3187:ARG:HE	1.84	0.42
1:E:3266:MET:O	1:E:3270:ILE:HG12	2.19	0.42
1:E:3315:LEU:O	1:E:3319:ILE:HG13	2.19	0.42
1:E:3760:LYS:O	1:E:3764:LEU:HG	2.19	0.42
1:E:3944:GLU:HG2	1:E:3946:GLN:H	1.83	0.42
1:G:280:LEU:N	1:G:314:PHE:O	2.49	0.42
1:G:2280:VAL:HG21	1:G:2290:LEU:HD11	2.00	0.42
1:G:3398:PHE:CE1	1:G:3451:PHE:HB2	2.54	0.42
1:G:3459:VAL:HG11	1:G:3505:VAL:HG11	1.99	0.42
1:G:3546:ASP:HA	1:G:3549:VAL:HG22	2.00	0.42
1:G:4772:ASP:O	1:G:4776:GLN:HG2	2.19	0.42
1:J:499:THR:HG23	1:J:502:HIS:H	1.83	0.42
1:J:882:TRP:NE1	1:J:886:ARG:CZ	2.82	0.42
1:J:1101:ARG:HG3	1:J:1125:ASN:HB2	2.01	0.42
1:J:2280:VAL:HG21	1:J:2290:LEU:HD11	2.00	0.42
1:J:3722:TYR:OH	1:J:3782:MET:HG3	2.19	0.42
2:D:36:PHE:HZ	2:D:97:LEU:HD22	1.84	0.42
1:B:901:LYS:O	1:B:901:LYS:HG2	2.18	0.42
1:B:2894:LEU:HD21	1:B:2901:THR:HA	2.00	0.42
1:B:3034:LYS:O	1:B:3038:MET:HG3	2.19	0.42
1:B:3315:LEU:O	1:B:3319:ILE:HG13	2.19	0.42
1:B:4209:GLN:H	1:B:4209:GLN:HG3	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:140:ASP:OD1	1:E:140:ASP:N	2.49	0.42
1:E:2764:GLU:HG3	1:E:2857:PRO:HG3	2.01	0.42
1:E:3034:LYS:O	1:E:3038:MET:HG3	2.19	0.42
1:E:3262:ARG:HB2	1:E:3325:ASN:ND2	2.34	0.42
1:G:1561:VAL:HG23	1:G:1562:ILE:H	1.85	0.42
1:G:2010:LEU:HD12	1:G:3656:SER:HB2	2.00	0.42
1:G:2615:ARG:HB3	1:G:2618:MET:SD	2.59	0.42
1:G:2909:ASP:OD1	1:G:2909:ASP:N	2.52	0.42
1:G:2924:GLN:O	1:G:2928:LYS:HG2	2.19	0.42
1:G:3268:HIS:CE1	1:G:3272:ILE:HG13	2.54	0.42
1:G:4184:MET:HA	1:G:4190:ILE:HD13	2.01	0.42
1:J:280:LEU:N	1:J:314:PHE:O	2.49	0.42
1:J:745:SER:HB2	1:J:758:ARG:HG2	2.01	0.42
1:J:2452:ARG:O	1:J:2456:ILE:HG13	2.19	0.42
1:J:2514:ASN:HB3	1:J:2517:PHE:HB3	2.01	0.42
1:J:2878:LEU:HG	1:J:2882:TYR:CE2	2.55	0.42
1:J:3039:ILE:O	1:J:3043:PHE:CD1	2.72	0.42
1:J:3183:VAL:HG23	1:J:3187:ARG:HE	1.84	0.42
1:J:4772:ASP:O	1:J:4776:GLN:HG2	2.19	0.42
1:J:4813:LEU:HD23	1:J:4813:LEU:HA	1.85	0.42
3:C:105:ASN:CG	3:C:111:ASN:HB2	2.44	0.42
3:F:92:VAL:HG12	3:F:122:GLN:OE1	2.19	0.42
3:K:28:ILE:HD12	3:K:28:ILE:HA	1.89	0.42
3:K:92:VAL:HG12	3:K:122:GLN:OE1	2.19	0.42
1:B:477:LEU:O	1:B:480:GLU:HG3	2.19	0.42
1:B:1668:ARG:HG3	1:B:1671:ARG:HH12	1.84	0.42
1:B:2538:THR:O	1:B:2542:SER:N	2.42	0.42
1:B:3334:TRP:HA	1:B:3337:ARG:HE	1.85	0.42
1:B:3546:ASP:OD1	1:B:3546:ASP:N	2.52	0.42
1:B:3944:GLU:HG2	1:B:3946:GLN:H	1.83	0.42
1:B:4676:GLU:O	1:B:4680:LYS:HG2	2.19	0.42
1:E:2280:VAL:HG21	1:E:2290:LEU:HD11	2.00	0.42
1:E:3406:TYR:HE1	1:E:3509:LEU:HG	1.83	0.42
1:E:3722:TYR:OH	1:E:3782:MET:HG3	2.19	0.42
1:E:3969:ILE:HG21	1:E:3980:LEU:HD12	2.00	0.42
1:E:4090:LYS:N	1:E:4121:GLU:O	2.53	0.42
1:G:863:LEU:O	1:G:867:LEU:HG	2.19	0.42
1:G:996:TRP:HA	1:G:999:ASP:OD2	2.19	0.42
1:G:1668:ARG:HG3	1:G:1671:ARG:HH12	1.84	0.42
1:G:1738:LEU:HD12	1:G:1738:LEU:HA	1.80	0.42
1:G:2514:ASN:HB3	1:G:2517:PHE:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2801:ASP:HA	1:G:2804:ILE:HG12	2.00	0.42
1:G:3050:VAL:HB	1:G:3054:VAL:HG12	2.01	0.42
1:G:4698:LYS:HE3	1:G:4698:LYS:HB2	1.88	0.42
1:J:244:LEU:HD23	1:J:375:LYS:HZ2	1.84	0.42
1:J:877:ASN:O	1:J:881:LEU:HG	2.18	0.42
1:J:882:TRP:O	1:J:885:THR:OG1	2.25	0.42
1:J:1012:ASP:HB3	1:J:1015:ALA:HB3	2.01	0.42
1:J:1561:VAL:HG23	1:J:1562:ILE:H	1.85	0.42
1:J:2969:ILE:O	1:J:2972:GLU:HG3	2.19	0.42
1:J:3546:ASP:HA	1:J:3549:VAL:HG22	2.00	0.42
3:F:32:ASN:OD1	3:F:33:SER:N	2.52	0.42
1:B:735:GLN:OE1	1:B:735:GLN:HA	2.18	0.42
1:B:955:LEU:HD11	1:B:965:TYR:HA	2.00	0.42
1:B:996:TRP:HA	1:B:999:ASP:OD2	2.19	0.42
1:B:2615:ARG:HB3	1:B:2618:MET:SD	2.59	0.42
1:B:5011:TRP:NE1	1:B:5015:GLN:HE21	2.18	0.42
1:E:246:TYR:HE1	1:E:375:LYS:NZ	2.17	0.42
1:E:1668:ARG:HG3	1:E:1671:ARG:HH12	1.84	0.42
1:E:1708:ARG:O	1:E:1712:TYR:HD1	2.02	0.42
1:E:2264:GLY:O	1:E:2268:GLN:HG2	2.19	0.42
1:E:2799:GLU:O	1:E:2803:GLU:HG2	2.20	0.42
1:E:3530:GLN:OE1	1:E:3530:GLN:N	2.52	0.42
1:E:4026:MET:HE3	1:E:4026:MET:HB3	1.94	0.42
1:G:951:LYS:HE2	1:G:951:LYS:HB3	1.84	0.42
1:G:955:LEU:HD11	1:G:965:TYR:HA	2.00	0.42
1:G:2656:CYS:SG	1:G:2658:PRO:HD2	2.60	0.42
1:G:3034:LYS:O	1:G:3038:MET:HG3	2.19	0.42
1:G:3760:LYS:O	1:G:3764:LEU:HG	2.19	0.42
1:G:4065:PHE:HA	1:G:4068:LEU:HB2	1.99	0.42
1:J:883:ALA:O	1:J:887:ILE:HG13	2.20	0.42
1:J:955:LEU:HD11	1:J:965:TYR:HA	2.00	0.42
1:J:996:TRP:HA	1:J:999:ASP:OD2	2.19	0.42
1:J:1668:ARG:HG3	1:J:1671:ARG:HH12	1.84	0.42
1:J:2312:MET:H	1:J:2312:MET:HG3	1.69	0.42
1:J:2519:LEU:HD22	1:J:2575:ARG:HG3	2.02	0.42
1:J:3266:MET:O	1:J:3270:ILE:HG12	2.19	0.42
1:J:3443:ILE:HG22	1:J:3605:HIS:CG	2.55	0.42
1:J:3678:SER:HA	1:J:3696:ASP:OD2	2.20	0.42
1:J:3916:ILE:O	1:J:3920:VAL:HG23	2.20	0.42
1:J:4160:LEU:O	1:J:4164:LEU:HG	2.20	0.42
1:J:4184:MET:HA	1:J:4190:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:22:CYS:HB2	2:H:48:PHE:CE1	2.54	0.42
3:F:39:GLN:OE1	3:F:45:ARG:NH2	2.39	0.42
1:B:1864:LYS:HE3	1:B:1872:THR:HA	2.02	0.42
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	2.02	0.42
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.20	0.42
1:B:4090:LYS:N	1:B:4121:GLU:O	2.53	0.42
1:B:4145:VAL:HG22	1:B:4178:LEU:HD13	2.00	0.42
1:E:499:THR:HG23	1:E:502:HIS:H	1.83	0.42
1:E:924:MET:HE1	3:F:106:PRO:CB	2.50	0.42
1:E:2325:PRO:HG2	1:E:2422:ILE:HD13	2.00	0.42
1:E:2639:MET:HE2	1:E:2639:MET:H	1.85	0.42
1:E:2965:ARG:HE	1:E:2965:ARG:HB3	1.57	0.42
1:E:3443:ILE:HG22	1:E:3605:HIS:CG	2.55	0.42
1:E:3987:ASP:N	1:E:3987:ASP:OD1	2.52	0.42
1:E:4028:LEU:HD23	1:E:4146:LEU:HD13	2.00	0.42
1:E:4725:LEU:HA	1:E:4737:ILE:HG21	2.02	0.42
1:G:613:ALA:HB1	1:G:618:GLN:HE22	1.83	0.42
1:G:745:SER:HB2	1:G:758:ARG:HG2	2.01	0.42
1:G:1815:LEU:HD22	1:G:1845:VAL:HG21	2.00	0.42
1:G:2568:LEU:HD12	1:G:2568:LEU:O	2.19	0.42
1:G:2799:GLU:O	1:G:2803:GLU:HG2	2.20	0.42
1:G:3406:TYR:HE1	1:G:3509:LEU:HG	1.83	0.42
1:G:3916:ILE:O	1:G:3920:VAL:HG23	2.20	0.42
1:J:372:LEU:O	1:J:373:LYS:C	2.62	0.42
1:J:2325:PRO:HG2	1:J:2422:ILE:HD13	2.00	0.42
1:J:2656:CYS:SG	1:J:2658:PRO:HD2	2.60	0.42
1:J:2765:LYS:HZ2	1:J:2860:PRO:HA	1.84	0.42
1:J:3050:VAL:HB	1:J:3054:VAL:HG12	2.01	0.42
1:J:3970:GLN:NE2	1:J:5004:THR:HA	2.33	0.42
1:B:70:GLU:HG2	1:B:71:GLN:HG3	2.01	0.42
1:B:131:LEU:O	1:B:178:ARG:NH2	2.46	0.42
1:B:1101:ARG:HG3	1:B:1125:ASN:HB2	2.02	0.42
1:B:2519:LEU:HD22	1:B:2575:ARG:HG3	2.02	0.42
1:B:2656:CYS:SG	1:B:2658:PRO:HD2	2.60	0.42
1:B:3043:PHE:HZ	1:B:3071:LEU:O	2.03	0.42
1:B:3050:VAL:HB	1:B:3054:VAL:HG12	2.01	0.42
1:B:3443:ILE:HG22	1:B:3605:HIS:CG	2.55	0.42
1:B:3518:LEU:N	1:B:3519:PRO:HD2	2.35	0.42
1:B:3678:SER:HA	1:B:3696:ASP:OD2	2.20	0.42
1:B:3762:ARG:NH2	1:B:4755:GLU:O	2.53	0.42
1:B:3987:ASP:OD1	1:B:3987:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:LEU:O	1:E:374:LYS:HG3	2.20	0.42
1:E:745:SER:HB2	1:E:758:ARG:HG2	2.01	0.42
1:E:863:LEU:O	1:E:867:LEU:HG	2.19	0.42
1:E:2010:LEU:HD12	1:E:3656:SER:HB2	2.00	0.42
1:E:2815:ALA:HB1	1:E:2881:ASN:ND2	2.34	0.42
1:E:2878:LEU:HG	1:E:2882:TYR:CE2	2.54	0.42
1:E:2924:GLN:O	1:E:2928:LYS:HG2	2.19	0.42
1:E:3518:LEU:N	1:E:3519:PRO:HD2	2.35	0.42
1:E:4209:GLN:H	1:E:4209:GLN:HG3	1.65	0.42
1:G:3443:ILE:HG22	1:G:3605:HIS:CG	2.55	0.42
1:G:3592:ILE:O	1:G:3596:VAL:HG22	2.19	0.42
1:G:3678:SER:HA	1:G:3696:ASP:OD2	2.20	0.42
1:G:4063:ASP:OD1	1:G:4064:MET:N	2.53	0.42
1:J:924:MET:HE1	3:K:106:PRO:CB	2.49	0.42
1:J:1708:ARG:O	1:J:1712:TYR:HD1	2.02	0.42
1:J:2624:ARG:HH11	1:J:2903:PRO:HA	1.84	0.42
1:J:3406:TYR:HE1	1:J:3509:LEU:HG	1.83	0.42
1:J:3760:LYS:O	1:J:3764:LEU:HG	2.19	0.42
1:J:4063:ASP:OD1	1:J:4064:MET:N	2.53	0.42
3:M:82:MET:SD	3:M:83:ASN:N	2.93	0.42
1:B:581:ASN:OD1	1:B:581:ASN:N	2.53	0.42
1:B:2815:ALA:HB1	1:B:2881:ASN:ND2	2.34	0.42
1:B:3183:VAL:HG23	1:B:3187:ARG:HE	1.84	0.42
1:B:3458:PHE:CE2	1:B:3464:ILE:HD11	2.55	0.42
1:B:3592:ILE:O	1:B:3596:VAL:HG22	2.19	0.42
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.19	0.42
1:B:4090:LYS:HZ2	1:B:4112:LEU:HD23	1.84	0.42
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	2.02	0.42
1:B:4772:ASP:O	1:B:4776:GLN:HG2	2.19	0.42
1:E:371:VAL:HG12	1:E:373:LYS:H	1.85	0.42
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.54	0.42
1:E:883:ALA:O	1:E:887:ILE:HG13	2.20	0.42
1:E:3039:ILE:O	1:E:3043:PHE:CD1	2.72	0.42
1:E:3420:ARG:NH1	1:E:3516:LYS:O	2.51	0.42
1:E:3704:HIS:O	1:E:3708:THR:HG23	2.20	0.42
1:E:4949:GLN:NE2	1:E:4953:ASP:OD2	2.52	0.42
1:G:1101:ARG:HG3	1:G:1125:ASN:HB2	2.02	0.42
1:G:2764:GLU:HG3	1:G:2857:PRO:HG3	2.01	0.42
1:G:3049:LEU:HB3	1:G:3057:PHE:CE1	2.53	0.42
1:G:4846:VAL:HG13	1:J:4813:LEU:HD13	2.01	0.42
1:J:863:LEU:O	1:J:867:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1076:ARG:HB3	1:J:1191:VAL:HG23	2.01	0.42
1:J:2615:ARG:HB3	1:J:2618:MET:SD	2.59	0.42
1:J:3034:LYS:O	1:J:3038:MET:HG3	2.19	0.42
1:J:3268:HIS:CE1	1:J:3272:ILE:HG13	2.54	0.42
1:J:3300:ALA:HB3	1:J:3301:PRO:HD3	2.01	0.42
1:J:3315:LEU:O	1:J:3319:ILE:HG13	2.19	0.42
1:J:3350:ARG:NE	1:J:3350:ARG:HA	2.34	0.42
1:J:4698:LYS:HE3	1:J:4698:LYS:HB2	1.88	0.42
1:J:4995:LEU:HD21	1:J:5007:GLU:HB3	2.02	0.42
3:C:32:ASN:OD1	3:C:33:SER:N	2.52	0.42
3:C:100:VAL:HG22	3:C:105:ASN:HB2	2.01	0.42
3:K:30:SER:HB3	3:K:99:ARG:CB	2.48	0.42
3:K:38:ARG:NH1	3:K:89:ASP:OD1	2.52	0.42
3:K:82:MET:SD	3:K:83:ASN:N	2.93	0.42
3:M:105:ASN:CG	3:M:111:ASN:HB2	2.45	0.42
1:B:663:TYR:OH	1:B:758:ARG:NH2	2.53	0.42
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.19	0.42
1:E:73:LEU:O	1:E:106:ALA:N	2.46	0.42
1:E:955:LEU:HD11	1:E:965:TYR:HA	2.00	0.42
1:E:2627:VAL:HB	1:E:2678:LEU:HD11	2.01	0.42
1:E:2656:CYS:SG	1:E:2658:PRO:HD2	2.60	0.42
1:E:3261:ALA:HB1	1:E:3321:ARG:HB3	2.02	0.42
1:E:3546:ASP:HA	1:E:3549:VAL:HG22	2.00	0.42
1:G:247:TYR:HD2	1:G:372:LEU:O	2.02	0.42
1:G:306:LYS:H	1:G:306:LYS:HG2	1.69	0.42
1:G:1864:LYS:HE3	1:G:1872:THR:HA	2.01	0.42
1:G:3183:VAL:HG23	1:G:3187:ARG:HE	1.85	0.42
1:J:1094:ALA:HB1	1:J:1100:MET:HE1	2.01	0.42
1:J:3043:PHE:HZ	1:J:3071:LEU:O	2.03	0.42
1:J:4090:LYS:N	1:J:4121:GLU:O	2.53	0.42
2:A:36:PHE:HZ	2:A:97:LEU:HD22	1.84	0.42
2:A:41:ASP:OD1	2:A:42:ARG:N	2.53	0.42
3:M:92:VAL:HG12	3:M:122:GLN:OE1	2.19	0.42
1:B:2325:PRO:HG2	1:B:2422:ILE:HD13	2.00	0.42
1:B:2627:VAL:HB	1:B:2678:LEU:HD11	2.01	0.42
1:B:3261:ALA:HB1	1:B:3321:ARG:HB3	2.02	0.42
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.53	0.42
1:B:4759:ASP:OD1	1:B:4759:ASP:N	2.53	0.42
1:E:1683:HIS:NE2	1:E:1798:LEU:O	2.52	0.42
1:E:2485:LEU:HD23	1:E:2485:LEU:HA	1.95	0.42
1:E:3043:PHE:HZ	1:E:3071:LEU:O	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3458:PHE:CE2	1:E:3464:ILE:HD11	2.55	0.42
1:E:4087:LEU:HB3	1:E:4122:MET:HB2	2.01	0.42
1:E:4768:LEU:HB3	1:E:4769:MET:HE2	2.00	0.42
1:G:389:PHE:HD1	1:G:390:LEU:N	2.18	0.42
1:G:1508:ARG:NH2	1:J:2773:ASN:OD1	2.42	0.42
1:G:2815:ALA:HB1	1:G:2881:ASN:ND2	2.34	0.42
1:G:3043:PHE:HZ	1:G:3071:LEU:O	2.03	0.42
1:G:3458:PHE:CE2	1:G:3464:ILE:HD11	2.55	0.42
1:G:4966:ASP:OD1	1:G:4966:ASP:N	2.53	0.42
1:J:389:PHE:HD1	1:J:390:LEU:N	2.18	0.42
1:J:2815:ALA:HB1	1:J:2881:ASN:ND2	2.34	0.42
1:J:3518:LEU:N	1:J:3519:PRO:HD2	2.35	0.42
3:F:82:MET:SD	3:F:83:ASN:N	2.93	0.42
1:B:794:GLY:HA2	1:B:810:PRO:HB3	2.02	0.42
1:B:1012:ASP:HB3	1:B:1015:ALA:HB3	2.01	0.42
1:B:2452:ARG:O	1:B:2456:ILE:HG13	2.19	0.42
1:B:2568:LEU:HD12	1:B:2568:LEU:O	2.19	0.42
1:B:2799:GLU:O	1:B:2803:GLU:HG2	2.20	0.42
1:B:3077:ALA:HB3	1:B:3078:ARG:NH1	2.35	0.42
1:B:4087:LEU:HB3	1:B:4122:MET:HB2	2.01	0.42
1:E:1973:GLN:OE1	1:E:3641:LEU:HB2	2.20	0.42
1:E:2615:ARG:HB3	1:E:2618:MET:SD	2.59	0.42
1:E:3011:THR:OG1	1:E:3070:ILE:HG12	2.20	0.42
1:E:3016:TYR:HE2	1:E:3030:HIS:HB3	1.84	0.42
1:E:3194:LEU:O	1:E:3197:LEU:HG	2.20	0.42
1:E:3546:ASP:OD1	1:E:3546:ASP:N	2.52	0.42
1:E:3878:ASP:O	1:E:3882:GLN:HG3	2.20	0.42
1:E:4552:LEU:HD22	1:E:4663:CYS:SG	2.60	0.42
1:E:5011:TRP:NE1	1:E:5015:GLN:HE21	2.18	0.42
1:G:883:ALA:O	1:G:887:ILE:HG13	2.20	0.42
1:G:1699:GLU:HG3	1:G:1810:LYS:HE3	2.02	0.42
1:G:1927:LEU:HD13	1:G:2097:LEU:HD11	2.02	0.42
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.20	0.42
1:G:2624:ARG:HH11	1:G:2903:PRO:HA	1.84	0.42
1:G:2690:LYS:HE3	1:G:2690:LYS:HB2	1.91	0.42
1:G:3062:PRO:HA	1:G:3065:VAL:HG22	2.02	0.42
1:G:3194:LEU:O	1:G:3197:LEU:HG	2.20	0.42
1:G:3261:ALA:HB1	1:G:3321:ARG:HB3	2.02	0.42
1:G:3518:LEU:N	1:G:3519:PRO:HD2	2.35	0.42
1:G:4131:ARG:HG3	1:G:4132:PHE:CD2	2.55	0.42
1:G:4145:VAL:HG22	1:G:4178:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:TYR:CZ	1:J:474:ARG:HD2	2.54	0.42
1:J:747:CYS:HB2	1:J:808:TYR:CE2	2.55	0.42
1:J:872:GLU:CD	1:J:872:GLU:H	2.28	0.42
1:J:882:TRP:CD1	1:J:882:TRP:C	2.98	0.42
1:J:882:TRP:CD1	1:J:886:ARG:CZ	3.03	0.42
1:J:1445:PRO:HG2	1:J:1501:VAL:HG21	2.02	0.42
1:J:2627:VAL:HB	1:J:2678:LEU:HD11	2.01	0.42
1:J:3207:GLU:HG3	1:J:3246:LEU:CD2	2.49	0.42
1:J:3564:GLU:H	1:J:3564:GLU:HG3	1.73	0.42
1:J:3592:ILE:O	1:J:3596:VAL:HG22	2.19	0.42
1:J:3962:PHE:O	1:J:3966:THR:HG23	2.20	0.42
1:J:4995:LEU:HD23	1:J:4995:LEU:HA	1.83	0.42
2:H:41:ASP:OD1	2:H:42:ARG:N	2.53	0.42
2:I:22:CYS:HB2	2:I:48:PHE:CE1	2.54	0.42
2:I:36:PHE:HZ	2:I:97:LEU:HD22	1.84	0.42
3:C:38:ARG:NH1	3:C:89:ASP:OD1	2.52	0.42
1:B:2328:GLY:HA3	1:B:2425:PHE:CE2	2.55	0.41
1:E:872:GLU:H	1:E:872:GLU:CD	2.28	0.41
1:E:979:PRO:HA	1:E:982:THR:HG22	2.02	0.41
1:E:1302:ARG:H	1:E:1302:ARG:HG2	1.66	0.41
1:E:2519:LEU:HD22	1:E:2575:ARG:HG3	2.02	0.41
1:E:2624:ARG:HH11	1:E:2903:PRO:HA	1.84	0.41
1:E:3075:LEU:H	1:E:3146:HIS:CE1	2.38	0.41
1:E:4060:LYS:HA	1:E:4063:ASP:OD2	2.19	0.41
1:E:4772:ASP:O	1:E:4776:GLN:HG2	2.19	0.41
1:G:663:TYR:CE1	1:G:745:SER:HB3	2.55	0.41
1:G:1445:PRO:HG2	1:G:1501:VAL:HG21	2.02	0.41
1:G:2878:LEU:HG	1:G:2882:TYR:CE2	2.54	0.41
1:G:3016:TYR:HE2	1:G:3030:HIS:HB3	1.84	0.41
1:G:3206:LEU:O	1:G:3208:PRO:HD3	2.20	0.41
1:G:3207:GLU:HG3	1:G:3246:LEU:CD2	2.49	0.41
1:G:3334:TRP:HA	1:G:3337:ARG:HE	1.85	0.41
1:G:3762:ARG:NH2	1:G:4755:GLU:O	2.53	0.41
1:J:81:MET:HE2	1:J:81:MET:HB2	1.94	0.41
1:J:1132:TRP:CE2	1:J:1136:SER:HB2	2.55	0.41
1:J:1934:SER:O	1:J:1938:GLN:HG2	2.20	0.41
1:J:3077:ALA:HB3	1:J:3078:ARG:NH1	2.35	0.41
1:J:3704:HIS:O	1:J:3708:THR:HG23	2.20	0.41
1:J:3762:ARG:NH2	1:J:4755:GLU:O	2.53	0.41
1:J:3987:ASP:OD1	1:J:3987:ASP:N	2.52	0.41
1:J:4060:LYS:HA	1:J:4063:ASP:OD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4131:ARG:HG3	1:J:4132:PHE:CD2	2.55	0.41
1:J:4552:LEU:HD22	1:J:4663:CYS:SG	2.60	0.41
1:J:4759:ASP:N	1:J:4759:ASP:OD1	2.53	0.41
2:A:26:TYR:HA	2:A:100:ASP:O	2.20	0.41
2:D:41:ASP:OD1	2:D:42:ARG:N	2.53	0.41
1:B:140:ASP:OD1	1:B:140:ASP:N	2.49	0.41
1:B:365:LYS:HE2	1:B:369:LEU:HD11	2.01	0.41
1:B:979:PRO:HA	1:B:982:THR:HG22	2.02	0.41
1:B:1561:VAL:HG23	1:B:1562:ILE:H	1.85	0.41
1:B:2639:MET:HE2	1:B:2639:MET:H	1.85	0.41
1:B:3010:PHE:O	1:B:3014:CYS:HB2	2.20	0.41
1:B:3850:GLN:HE21	1:B:3870:ASN:H	1.68	0.41
1:E:732:SER:O	1:E:735:GLN:HG2	2.20	0.41
1:E:1101:ARG:HG3	1:E:1125:ASN:HB2	2.02	0.41
1:E:1828:ASP:OD1	1:E:1828:ASP:N	2.51	0.41
1:E:2514:ASN:HB3	1:E:2517:PHE:HB3	2.01	0.41
1:E:3050:VAL:HB	1:E:3054:VAL:HG12	2.01	0.41
1:E:3850:GLN:HE21	1:E:3870:ASN:H	1.68	0.41
1:E:3916:ILE:O	1:E:3920:VAL:HG23	2.20	0.41
1:G:872:GLU:H	1:G:872:GLU:CD	2.28	0.41
1:G:1076:ARG:HB3	1:G:1191:VAL:HG23	2.01	0.41
1:G:1973:GLN:OE1	1:G:3641:LEU:HB2	2.20	0.41
1:G:2519:LEU:HD22	1:G:2575:ARG:HG3	2.02	0.41
1:G:3110:LEU:HD23	1:G:3183:VAL:HG12	2.02	0.41
1:G:3300:ALA:HB3	1:G:3301:PRO:HD3	2.01	0.41
1:G:3315:LEU:O	1:G:3319:ILE:HG13	2.19	0.41
1:G:5011:TRP:NE1	1:G:5015:GLN:HE21	2.18	0.41
1:J:246:TYR:HE1	1:J:375:LYS:NZ	2.16	0.41
1:J:1927:LEU:HD13	1:J:2097:LEU:HD11	2.02	0.41
1:J:2357:LEU:HD23	1:J:2357:LEU:HA	1.92	0.41
1:J:2380:ILE:O	1:J:2384:ILE:HG13	2.20	0.41
1:J:2799:GLU:O	1:J:2803:GLU:HG2	2.20	0.41
1:J:3327:LEU:HD13	1:J:3368:ARG:NH1	2.36	0.41
1:J:3458:PHE:CE2	1:J:3464:ILE:HD11	2.55	0.41
1:J:3526:ALA:HB2	1:J:3576:TYR:CE2	2.56	0.41
1:J:4214:LYS:HE2	1:J:4214:LYS:HB3	1.92	0.41
3:M:105:ASN:OD1	3:M:111:ASN:HB2	2.19	0.41
1:B:1708:ARG:O	1:B:1712:TYR:HD1	2.02	0.41
1:B:2380:ILE:O	1:B:2384:ILE:HG13	2.20	0.41
1:B:2610:LEU:O	1:B:2614:ILE:HG12	2.20	0.41
1:B:2661:TRP:CZ3	1:B:2664:PHE:HD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2878:LEU:HG	1:B:2882:TYR:CE2	2.54	0.41
1:B:3206:LEU:O	1:B:3208:PRO:HD3	2.20	0.41
1:B:3760:LYS:O	1:B:3764:LEU:HG	2.19	0.41
1:B:3916:ILE:O	1:B:3920:VAL:HG23	2.20	0.41
1:B:4178:LEU:HD11	1:B:4194:TYR:HB3	2.02	0.41
1:E:50:GLU:HA	1:E:51:PRO:HD3	1.94	0.41
1:E:2610:LEU:O	1:E:2614:ILE:HG12	2.20	0.41
1:E:2909:ASP:OD1	1:E:2909:ASP:N	2.52	0.41
1:E:3334:TRP:HA	1:E:3337:ARG:HE	1.84	0.41
1:E:3526:ALA:HB2	1:E:3576:TYR:CE2	2.56	0.41
1:E:3562:LYS:HB2	1:E:3562:LYS:HE2	1.81	0.41
1:E:3678:SER:HA	1:E:3696:ASP:OD2	2.20	0.41
1:E:3762:ARG:NH2	1:E:4755:GLU:O	2.53	0.41
1:E:4157:ASP:O	1:E:4161:ARG:HG2	2.21	0.41
1:E:4838:VAL:O	1:E:4841:VAL:HG12	2.21	0.41
1:E:4851:TYR:HD1	1:E:4916:PHE:CE1	2.38	0.41
1:G:581:ASN:N	1:G:581:ASN:OD1	2.53	0.41
1:G:1870:VAL:HG11	1:G:2097:LEU:HD22	2.02	0.41
1:G:2463:LEU:O	1:G:2467:VAL:HG23	2.21	0.41
1:G:2633:LEU:HB3	1:G:2689:LYS:HZ1	1.85	0.41
1:G:2639:MET:HE2	1:G:2639:MET:H	1.85	0.41
1:G:3458:PHE:HE2	1:G:3464:ILE:HD11	1.85	0.41
1:G:3850:GLN:NE2	1:G:3870:ASN:H	2.19	0.41
1:G:3878:ASP:O	1:G:3882:GLN:HG3	2.20	0.41
1:G:4091:LYS:NZ	1:G:4092:ASP:OD1	2.48	0.41
1:G:4995:LEU:HD21	1:G:5007:GLU:HB3	2.02	0.41
1:J:794:GLY:HA2	1:J:810:PRO:HB3	2.02	0.41
1:J:1758:ARG:NH2	1:J:2036:GLN:OE1	2.51	0.41
1:J:2608:MET:HE2	1:J:2608:MET:HB3	1.76	0.41
1:J:2639:MET:HE2	1:J:2639:MET:H	1.85	0.41
1:J:3562:LYS:HE2	1:J:3562:LYS:HB2	1.81	0.41
1:J:3639:THR:N	1:J:3640:PRO:HD2	2.36	0.41
1:J:3979:SER:O	1:J:3983:SER:OG	2.31	0.41
1:J:4178:LEU:HD11	1:J:4194:TYR:HB3	2.03	0.41
1:J:4679:ARG:HH21	1:J:5017:ARG:NH1	2.18	0.41
1:J:4966:ASP:OD1	1:J:4966:ASP:N	2.53	0.41
2:A:22:CYS:HB2	2:A:48:PHE:CE1	2.54	0.41
1:B:73:LEU:HD12	1:B:73:LEU:HA	1.92	0.41
1:B:623:GLU:HG2	2:A:88:PRO:HB3	2.01	0.41
1:B:872:GLU:H	1:B:872:GLU:CD	2.28	0.41
1:B:2514:ASN:HB3	1:B:2517:PHE:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2624:ARG:HH11	1:B:2903:PRO:HA	1.84	0.41
1:B:2657:LEU:H	1:B:2711:PRO:HG3	1.85	0.41
1:B:3075:LEU:H	1:B:3146:HIS:CE1	2.38	0.41
1:B:3546:ASP:HA	1:B:3549:VAL:HG22	2.01	0.41
1:B:3850:GLN:NE2	1:B:3870:ASN:H	2.19	0.41
1:E:70:GLU:HG2	1:E:71:GLN:HG3	2.01	0.41
1:E:1934:SER:O	1:E:1938:GLN:HG2	2.20	0.41
1:E:2328:GLY:HA3	1:E:2425:PHE:CE2	2.55	0.41
1:E:2532:ALA:O	1:E:2536:LEU:HD23	2.21	0.41
1:E:3639:THR:N	1:E:3640:PRO:HD2	2.36	0.41
1:E:4160:LEU:O	1:E:4164:LEU:HG	2.20	0.41
1:G:882:TRP:CD1	1:G:882:TRP:C	2.98	0.41
1:G:882:TRP:CD1	1:G:886:ARG:CZ	3.03	0.41
1:G:1132:TRP:CE2	1:G:1136:SER:HB2	2.56	0.41
1:G:1934:SER:O	1:G:1938:GLN:HG2	2.20	0.41
1:G:2610:LEU:O	1:G:2614:ILE:HG12	2.20	0.41
1:G:2627:VAL:HB	1:G:2678:LEU:HD11	2.01	0.41
1:G:2657:LEU:H	1:G:2711:PRO:HG3	1.85	0.41
1:G:3077:ALA:HB3	1:G:3078:ARG:NH1	2.35	0.41
1:G:4068:LEU:HD23	1:G:4068:LEU:HA	1.89	0.41
1:G:4090:LYS:N	1:G:4121:GLU:O	2.53	0.41
1:G:4552:LEU:HD22	1:G:4663:CYS:SG	2.60	0.41
1:J:5011:TRP:NE1	1:J:5015:GLN:HE21	2.18	0.41
3:C:82:MET:SD	3:C:83:ASN:N	2.93	0.41
3:M:104:TYR:CE1	3:M:106:PRO:HG3	2.55	0.41
1:B:451:TYR:CZ	1:B:474:ARG:HD2	2.54	0.41
1:B:1132:TRP:CE2	1:B:1136:SER:HB2	2.56	0.41
1:B:2463:LEU:O	1:B:2467:VAL:HG23	2.21	0.41
1:B:3194:LEU:O	1:B:3197:LEU:HG	2.20	0.41
1:B:4131:ARG:HG3	1:B:4132:PHE:CD2	2.55	0.41
1:B:4160:LEU:O	1:B:4164:LEU:HG	2.20	0.41
1:E:1132:TRP:CE2	1:E:1136:SER:HB2	2.56	0.41
1:E:2661:TRP:CZ3	1:E:2664:PHE:HD2	2.38	0.41
1:E:3420:ARG:HD2	1:E:3519:PRO:HG2	2.03	0.41
1:E:4063:ASP:OD1	1:E:4064:MET:N	2.53	0.41
1:E:4131:ARG:HG3	1:E:4132:PHE:CD2	2.55	0.41
1:G:246:TYR:HE1	1:G:375:LYS:NZ	2.16	0.41
1:G:979:PRO:HA	1:G:982:THR:HG22	2.02	0.41
1:G:3509:LEU:HD23	1:G:3509:LEU:HA	1.88	0.41
1:G:3850:GLN:HE21	1:G:3870:ASN:H	1.68	0.41
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4188:ARG:HA	1:G:4188:ARG:NE	2.35	0.41
1:G:4759:ASP:OD1	1:G:4759:ASP:N	2.53	0.41
1:J:247:TYR:HD2	1:J:372:LEU:HB3	1.81	0.41
1:J:663:TYR:CE1	1:J:745:SER:HB3	2.55	0.41
1:J:663:TYR:OH	1:J:758:ARG:NH2	2.53	0.41
1:J:3010:PHE:O	1:J:3014:CYS:HB2	2.20	0.41
1:J:3062:PRO:HA	1:J:3065:VAL:HG22	2.02	0.41
1:J:3765:TYR:CZ	1:J:3769:ARG:HD3	2.56	0.41
1:J:4652:LEU:O	1:J:4656:LEU:HG	2.21	0.41
2:D:22:CYS:HB2	2:D:48:PHE:CE1	2.54	0.41
1:B:110:ARG:HD3	1:B:115:ARG:HE	1.86	0.41
1:B:389:PHE:HD1	1:B:390:LEU:N	2.18	0.41
1:B:732:SER:O	1:B:735:GLN:HG2	2.20	0.41
1:B:1076:ARG:HB3	1:B:1191:VAL:HG23	2.01	0.41
1:B:1302:ARG:H	1:B:1302:ARG:HG2	1.66	0.41
1:B:2867:LEU:HD12	1:B:2867:LEU:HA	1.82	0.41
1:B:3327:LEU:HD22	1:B:3368:ARG:NH1	2.36	0.41
1:B:3878:ASP:O	1:B:3882:GLN:HG3	2.20	0.41
1:B:4552:LEU:HD22	1:B:4663:CYS:SG	2.60	0.41
1:E:355:LEU:HD22	1:E:379:HIS:HA	2.03	0.41
1:E:389:PHE:HD1	1:E:390:LEU:N	2.18	0.41
1:E:1699:GLU:HG3	1:E:1810:LYS:HE3	2.02	0.41
1:E:1870:VAL:HG11	1:E:2097:LEU:HD22	2.02	0.41
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.20	0.41
1:E:2463:LEU:O	1:E:2467:VAL:HG23	2.21	0.41
1:E:3110:LEU:HD23	1:E:3183:VAL:HG12	2.02	0.41
1:E:3592:ILE:O	1:E:3596:VAL:HG22	2.19	0.41
1:E:4759:ASP:OD1	1:E:4759:ASP:N	2.53	0.41
1:G:568:LEU:HD12	1:G:602:VAL:HG13	2.03	0.41
1:G:1115:LEU:HD23	1:G:1123:VAL:HG21	2.03	0.41
1:G:4087:LEU:HB3	1:G:4122:MET:HB2	2.01	0.41
1:G:4178:LEU:HD11	1:G:4194:TYR:HB3	2.03	0.41
1:J:355:LEU:HD22	1:J:379:HIS:HA	2.03	0.41
1:J:568:LEU:HD12	1:J:602:VAL:HG13	2.03	0.41
1:J:1699:GLU:HG3	1:J:1810:LYS:HE3	2.02	0.41
1:J:1973:GLN:OE1	1:J:3641:LEU:HB2	2.20	0.41
1:J:3334:TRP:HA	1:J:3337:ARG:HE	1.84	0.41
1:J:4666:VAL:HG21	1:J:4783:ILE:HD11	2.03	0.41
1:J:4725:LEU:HA	1:J:4737:ILE:HG21	2.02	0.41
2:I:41:ASP:OD1	2:I:42:ARG:N	2.53	0.41
1:B:882:TRP:CD1	1:B:882:TRP:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1927:LEU:HD13	1:B:2097:LEU:HD11	2.02	0.41
1:B:1973:GLN:OE1	1:B:3641:LEU:HB2	2.20	0.41
1:B:2532:ALA:O	1:B:2536:LEU:HD23	2.21	0.41
1:B:3327:LEU:HD13	1:B:3368:ARG:NH1	2.36	0.41
1:B:3526:ALA:HB2	1:B:3576:TYR:CE2	2.56	0.41
1:B:4838:VAL:O	1:B:4841:VAL:HG12	2.21	0.41
1:B:4851:TYR:HD1	1:B:4916:PHE:CE1	2.38	0.41
1:E:1012:ASP:HB3	1:E:1015:ALA:HB3	2.01	0.41
1:E:1076:ARG:HB3	1:E:1191:VAL:HG23	2.01	0.41
1:E:3300:ALA:HB3	1:E:3301:PRO:HD3	2.01	0.41
1:E:4541:TRP:O	1:E:4544:LEU:HG	2.21	0.41
1:G:110:ARG:HD3	1:G:115:ARG:HE	1.86	0.41
1:G:172:VAL:HA	1:G:178:ARG:O	2.21	0.41
1:G:663:TYR:OH	1:G:758:ARG:NH2	2.53	0.41
1:G:1619:ARG:HE	1:G:1619:ARG:HB2	1.72	0.41
1:G:2969:ILE:O	1:G:2972:GLU:HG3	2.19	0.41
1:G:3292:PRO:HA	1:G:3293:PRO:HD3	1.92	0.41
1:G:3562:LYS:HE2	1:G:3562:LYS:HB2	1.81	0.41
1:G:4160:LEU:O	1:G:4164:LEU:HG	2.20	0.41
1:G:4666:VAL:HG21	1:G:4783:ILE:HD11	2.03	0.41
1:J:979:PRO:HA	1:J:982:THR:HG22	2.02	0.41
1:J:2764:GLU:HG3	1:J:2857:PRO:HG3	2.01	0.41
1:J:3261:ALA:HB1	1:J:3321:ARG:HB3	2.02	0.41
1:J:3420:ARG:HD2	1:J:3519:PRO:HG2	2.03	0.41
1:J:3850:GLN:NE2	1:J:3870:ASN:H	2.19	0.41
2:D:26:TYR:HA	2:D:100:ASP:O	2.21	0.41
2:I:26:TYR:HA	2:I:100:ASP:O	2.20	0.41
3:C:104:TYR:CE1	3:C:106:PRO:HG3	2.53	0.41
3:F:28:ILE:HD12	3:F:28:ILE:HA	1.89	0.41
3:K:105:ASN:CG	3:K:111:ASN:HB2	2.45	0.41
1:B:747:CYS:HB2	1:B:808:TYR:CE2	2.55	0.41
1:B:883:ALA:O	1:B:887:ILE:HG13	2.20	0.41
1:B:1115:LEU:HD23	1:B:1123:VAL:HG21	2.03	0.41
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.52	0.41
1:B:3011:THR:OG1	1:B:3070:ILE:HG12	2.20	0.41
1:B:3016:TYR:HE2	1:B:3030:HIS:HB3	1.84	0.41
1:B:4026:MET:HE3	1:B:4026:MET:HB3	1.94	0.41
1:E:663:TYR:OH	1:E:758:ARG:NH2	2.53	0.41
1:E:882:TRP:CD1	1:E:882:TRP:C	2.98	0.41
1:E:1561:VAL:HG23	1:E:1562:ILE:H	1.84	0.41
1:E:1864:LYS:HE3	1:E:1872:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1964:ARG:O	1:E:1968:LYS:NZ	2.46	0.41
1:E:3010:PHE:O	1:E:3014:CYS:HB2	2.20	0.41
1:E:3765:TYR:CZ	1:E:3769:ARG:HD3	2.56	0.41
1:E:3949:ARG:O	1:E:3953:LYS:HG3	2.21	0.41
1:G:50:GLU:HA	1:G:51:PRO:HD3	1.94	0.41
1:G:127:MET:O	1:G:130:LYS:NZ	2.50	0.41
1:G:747:CYS:HB2	1:G:808:TYR:CE2	2.55	0.41
1:G:3011:THR:OG1	1:G:3070:ILE:HG12	2.20	0.41
1:G:3704:HIS:O	1:G:3708:THR:HG23	2.20	0.41
1:G:4851:TYR:HD1	1:G:4916:PHE:CE1	2.38	0.41
1:J:1939:MET:HB3	1:J:1939:MET:HE2	1.85	0.41
1:J:2670:GLU:OE1	1:J:2673:HIS:HB3	2.21	0.41
1:J:3011:THR:OG1	1:J:3070:ILE:HG12	2.20	0.41
1:J:3016:TYR:HE2	1:J:3030:HIS:HB3	1.84	0.41
1:J:3075:LEU:H	1:J:3146:HIS:CE1	2.38	0.41
1:J:3277:LEU:HG	1:J:3341:PHE:HZ	1.86	0.41
1:J:3327:LEU:HD22	1:J:3368:ARG:NH1	2.36	0.41
1:J:4087:LEU:HB3	1:J:4122:MET:HB2	2.02	0.41
1:J:4157:ASP:O	1:J:4161:ARG:HG2	2.21	0.41
1:J:4890:GLY:HA2	1:J:4900:GLU:OE2	2.21	0.41
2:H:36:PHE:HZ	2:H:97:LEU:HD22	1.84	0.41
3:C:101:PRO:HD2	3:C:104:TYR:O	2.20	0.41
1:B:424:LYS:HE2	1:B:424:LYS:HB2	1.85	0.41
1:B:684:VAL:HG22	1:B:781:VAL:HG12	2.02	0.41
1:B:1934:SER:O	1:B:1938:GLN:HG2	2.20	0.41
1:B:2536:LEU:HA	1:B:2541:PHE:HB3	2.03	0.41
1:B:2787:THR:OG1	1:B:2788:HIS:N	2.54	0.41
1:B:2973:PHE:CD1	1:B:2973:PHE:C	2.99	0.41
1:B:3420:ARG:HD2	1:B:3519:PRO:HG2	2.03	0.41
1:B:3445:TRP:HA	1:B:3451:PHE:CD1	2.49	0.41
1:B:4046:ASP:HA	1:B:4049:VAL:HG22	2.03	0.41
1:B:4157:ASP:O	1:B:4161:ARG:HG2	2.21	0.41
1:B:4188:ARG:HA	1:B:4188:ARG:NE	2.35	0.41
1:B:4995:LEU:HD21	1:B:5007:GLU:HB3	2.02	0.41
1:E:172:VAL:HA	1:E:178:ARG:O	2.21	0.41
1:E:568:LEU:HD12	1:E:602:VAL:HG13	2.03	0.41
1:E:747:CYS:HB2	1:E:808:TYR:CE2	2.55	0.41
1:E:882:TRP:CD1	1:E:886:ARG:CZ	3.03	0.41
1:E:1440:PHE:CD2	1:E:1560:ASN:HB3	2.56	0.41
1:E:1445:PRO:HG2	1:E:1501:VAL:HG21	2.02	0.41
1:E:1939:MET:HE2	1:E:1939:MET:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3077:ALA:HB3	1:E:3078:ARG:NH1	2.35	0.41
1:E:3533:ILE:HG13	1:E:3533:ILE:H	1.74	0.41
1:E:4178:LEU:HD11	1:E:4194:TYR:HB3	2.03	0.41
1:E:4188:ARG:HA	1:E:4188:ARG:NE	2.35	0.41
1:E:4214:LYS:HE2	1:E:4214:LYS:HB3	1.91	0.41
1:E:4553:ASN:O	1:E:4557:ARG:HG3	2.21	0.41
1:E:4652:LEU:O	1:E:4656:LEU:HG	2.21	0.41
1:E:4679:ARG:HH21	1:E:5017:ARG:NH1	2.18	0.41
1:E:4754:ASN:CG	1:E:4756:ARG:HH12	2.29	0.41
1:G:138:GLN:NE2	1:G:140:ASP:O	2.54	0.41
1:G:794:GLY:HA2	1:G:810:PRO:HB3	2.02	0.41
1:G:2532:ALA:O	1:G:2536:LEU:HD23	2.21	0.41
1:G:2661:TRP:CZ3	1:G:2664:PHE:HD2	2.39	0.41
1:G:3420:ARG:HD2	1:G:3519:PRO:HG2	2.03	0.41
1:G:3943:ILE:HD11	1:G:4002:LYS:HE2	2.03	0.41
1:G:4157:ASP:O	1:G:4161:ARG:HG2	2.20	0.41
1:G:4541:TRP:O	1:G:4544:LEU:HG	2.21	0.41
1:G:4890:GLY:HA2	1:G:4900:GLU:OE2	2.21	0.41
1:J:70:GLU:HG2	1:J:71:GLN:HG3	2.01	0.41
1:J:172:VAL:HA	1:J:178:ARG:O	2.21	0.41
1:J:684:VAL:HG22	1:J:781:VAL:HG12	2.02	0.41
1:J:732:SER:O	1:J:735:GLN:HG2	2.20	0.41
1:J:1115:LEU:HD23	1:J:1123:VAL:HG21	2.03	0.41
1:J:1864:LYS:HE3	1:J:1872:THR:HA	2.02	0.41
1:J:2325:PRO:HA	1:J:2425:PHE:CD2	2.56	0.41
1:J:2463:LEU:O	1:J:2467:VAL:HG23	2.21	0.41
1:J:2532:ALA:O	1:J:2536:LEU:HD23	2.21	0.41
1:J:2610:LEU:O	1:J:2614:ILE:HG12	2.20	0.41
1:J:2787:THR:OG1	1:J:2788:HIS:N	2.54	0.41
1:J:3194:LEU:O	1:J:3197:LEU:HG	2.20	0.41
1:J:3530:GLN:OE1	1:J:3530:GLN:N	2.52	0.41
1:J:3943:ILE:HD11	1:J:4002:LYS:HE2	2.03	0.41
1:J:4188:ARG:HA	1:J:4188:ARG:NE	2.35	0.41
1:J:4553:ASN:O	1:J:4557:ARG:HG3	2.21	0.41
1:B:355:LEU:HD22	1:B:379:HIS:HA	2.03	0.41
1:B:1445:PRO:HG2	1:B:1501:VAL:HG21	2.02	0.41
1:B:2325:PRO:HA	1:B:2425:PHE:CD2	2.56	0.41
1:B:2670:GLU:OE1	1:B:2673:HIS:HB3	2.21	0.41
1:B:3509:LEU:HD23	1:B:3509:LEU:HA	1.88	0.41
1:B:3530:GLN:OE1	1:B:3530:GLN:N	2.52	0.41
1:B:3949:ARG:O	1:B:3953:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1927:LEU:HD13	1:E:2097:LEU:HD11	2.02	0.41
1:E:2973:PHE:CD1	1:E:2973:PHE:C	2.99	0.41
1:E:3016:TYR:CE2	1:E:3030:HIS:HB3	2.56	0.41
1:E:3327:LEU:HD13	1:E:3368:ARG:NH1	2.36	0.41
1:E:3458:PHE:HE2	1:E:3464:ILE:HD11	1.85	0.41
1:E:3568:SER:HA	1:E:3571:TRP:CD1	2.56	0.41
1:E:3844:LEU:HD11	1:J:76:ARG:HH21	1.86	0.41
1:E:4813:LEU:HD13	1:J:4846:VAL:HG13	2.03	0.41
1:E:4890:GLY:HA2	1:E:4900:GLU:OE2	2.21	0.41
1:G:924:MET:CE	3:M:106:PRO:HB2	2.44	0.41
1:G:2325:PRO:HA	1:G:2425:PHE:CD2	2.56	0.41
1:G:2670:GLU:OE1	1:G:2673:HIS:HB3	2.21	0.41
1:G:3775:ALA:O	1:G:3779:VAL:HG13	2.21	0.41
1:J:1440:PHE:CD2	1:J:1560:ASN:HB3	2.56	0.41
1:J:1828:ASP:OD1	1:J:1828:ASP:N	2.51	0.41
1:J:3850:GLN:HE21	1:J:3870:ASN:H	1.68	0.41
1:J:3878:ASP:O	1:J:3882:GLN:HG3	2.20	0.41
1:B:76:ARG:HH21	1:G:3844:LEU:HD11	1.86	0.40
1:B:1032:LYS:HB3	1:B:1036:ARG:HH22	1.86	0.40
1:B:1945:TYR:O	1:B:1949:GLN:HG2	2.21	0.40
1:B:2759:ALA:HB1	1:B:2806:ARG:HB2	2.03	0.40
1:B:3003:LEU:O	1:B:3007:ASN:ND2	2.55	0.40
1:B:3277:LEU:HG	1:B:3341:PHE:HZ	1.86	0.40
1:B:3420:ARG:NH1	1:B:3516:LYS:O	2.51	0.40
1:B:4541:TRP:O	1:B:4544:LEU:HG	2.21	0.40
1:B:4553:ASN:O	1:B:4557:ARG:HG3	2.21	0.40
1:B:4754:ASN:CG	1:B:4756:ARG:HH12	2.29	0.40
1:E:372:LEU:O	1:E:373:LYS:C	2.64	0.40
1:E:684:VAL:HG22	1:E:781:VAL:HG12	2.02	0.40
1:E:2536:LEU:HA	1:E:2541:PHE:HB3	2.03	0.40
1:E:2759:ALA:HB1	1:E:2806:ARG:HB2	2.03	0.40
1:E:3277:LEU:HG	1:E:3341:PHE:HZ	1.86	0.40
1:E:3850:GLN:NE2	1:E:3870:ASN:H	2.19	0.40
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.20	0.40
1:G:355:LEU:HD22	1:G:379:HIS:HA	2.03	0.40
1:G:732:SER:O	1:G:735:GLN:HG2	2.20	0.40
1:G:3075:LEU:H	1:G:3146:HIS:CE1	2.38	0.40
1:G:3327:LEU:HD13	1:G:3368:ARG:NH1	2.36	0.40
1:G:4754:ASN:CG	1:G:4756:ARG:HH12	2.29	0.40
1:G:4838:VAL:O	1:G:4841:VAL:HG12	2.20	0.40
1:J:2645:THR:HG23	1:J:2702:CYS:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2655:TYR:OH	1:J:2671:GLU:OE2	2.31	0.40
1:J:2657:LEU:H	1:J:2711:PRO:HG3	1.85	0.40
1:J:3110:LEU:HD23	1:J:3183:VAL:HG12	2.02	0.40
1:J:3206:LEU:O	1:J:3208:PRO:HD3	2.20	0.40
1:J:3775:ALA:O	1:J:3779:VAL:HG13	2.21	0.40
1:J:3949:ARG:O	1:J:3953:LYS:HG3	2.21	0.40
1:J:4838:VAL:O	1:J:4841:VAL:HG12	2.21	0.40
3:F:105:ASN:CG	3:F:111:ASN:HB2	2.45	0.40
1:B:78:LEU:HD12	1:B:81:MET:SD	2.61	0.40
1:B:127:MET:O	1:B:130:LYS:NZ	2.50	0.40
1:B:568:LEU:HD12	1:B:602:VAL:HG13	2.03	0.40
1:B:663:TYR:CE1	1:B:745:SER:HB3	2.55	0.40
1:B:3110:LEU:HD23	1:B:3183:VAL:HG12	2.02	0.40
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	2.01	0.40
1:E:110:ARG:HD3	1:E:115:ARG:HE	1.86	0.40
1:E:2325:PRO:HA	1:E:2425:PHE:CD2	2.56	0.40
1:E:2458:ARG:HG3	1:E:2510:TYR:CE1	2.57	0.40
1:E:2645:THR:HG23	1:E:2702:CYS:HA	2.03	0.40
1:E:2747:ILE:HG21	1:E:2814:LYS:HE3	2.03	0.40
1:E:3046:LEU:HA	1:E:3049:LEU:HG	2.03	0.40
1:E:3292:PRO:HA	1:E:3293:PRO:HD3	1.91	0.40
1:E:4998:LYS:HE3	1:E:4998:LYS:HB2	1.72	0.40
1:G:3264:THR:O	1:G:3267:PRO:HD3	2.21	0.40
1:G:4553:ASN:O	1:G:4557:ARG:HG3	2.21	0.40
1:G:4574:ASN:ND2	1:G:4810:ALA:HA	2.29	0.40
1:J:110:ARG:HD3	1:J:115:ARG:HE	1.86	0.40
1:J:664:PHE:CE1	1:J:746:CYS:HB2	2.57	0.40
1:J:2598:ALA:O	1:J:2602:VAL:HG23	2.21	0.40
1:J:3046:LEU:HA	1:J:3049:LEU:HG	2.03	0.40
1:J:3264:THR:O	1:J:3267:PRO:HD3	2.21	0.40
1:J:4574:ASN:ND2	1:J:4810:ALA:HA	2.29	0.40
1:B:138:GLN:NE2	1:B:140:ASP:O	2.54	0.40
1:B:316:PHE:HD2	1:B:339:ILE:HG21	1.87	0.40
1:B:882:TRP:CD1	1:B:886:ARG:CZ	3.03	0.40
1:B:1699:GLU:HG3	1:B:1810:LYS:HE3	2.02	0.40
1:B:4652:LEU:O	1:B:4656:LEU:HG	2.21	0.40
1:B:4679:ARG:HH21	1:B:5017:ARG:NH1	2.18	0.40
1:E:138:GLN:NE2	1:E:140:ASP:O	2.54	0.40
1:E:1115:LEU:HD23	1:E:1123:VAL:HG21	2.03	0.40
1:E:2911:LEU:HD13	1:E:2915:GLU:HG3	2.04	0.40
1:E:4046:ASP:HA	1:E:4049:VAL:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1053:ILE:H	1:G:1053:ILE:HG12	1.66	0.40
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.22	0.40
1:G:3016:TYR:CE2	1:G:3030:HIS:HB3	2.56	0.40
1:G:3398:PHE:HD1	1:G:3451:PHE:CD2	2.40	0.40
1:G:4652:LEU:O	1:G:4656:LEU:HG	2.21	0.40
1:J:73:LEU:O	1:J:106:ALA:N	2.46	0.40
1:J:138:GLN:NE2	1:J:140:ASP:O	2.54	0.40
1:J:553:ARG:NH1	1:J:555:GLU:OE2	2.48	0.40
1:J:1870:VAL:HG11	1:J:2097:LEU:HD22	2.02	0.40
1:J:1964:ARG:O	1:J:1968:LYS:NZ	2.46	0.40
1:J:2012:PHE:CZ	1:J:2031:LEU:HD23	2.57	0.40
1:J:2867:LEU:HD12	1:J:2867:LEU:HA	1.82	0.40
1:J:2911:LEU:HD13	1:J:2915:GLU:HG3	2.04	0.40
1:J:3016:TYR:CE2	1:J:3030:HIS:HB3	2.56	0.40
1:J:3836:MET:HE2	1:J:3836:MET:HB2	1.95	0.40
1:J:4046:ASP:HA	1:J:4049:VAL:HG22	2.04	0.40
2:H:26:TYR:HA	2:H:100:ASP:O	2.20	0.40
2:I:39:SER:OG	2:I:44:LYS:O	2.40	0.40
3:C:30:SER:HB3	3:C:99:ARG:CB	2.49	0.40
3:M:105:ASN:ND2	3:M:107:TRP:H	2.20	0.40
1:B:246:TYR:CD1	1:B:373:LYS:HB2	2.57	0.40
1:B:2965:ARG:HE	1:B:2965:ARG:HB3	1.57	0.40
1:B:3016:TYR:CE2	1:B:3030:HIS:HB3	2.56	0.40
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.56	0.40
1:B:3639:THR:N	1:B:3640:PRO:HD2	2.35	0.40
1:B:3970:GLN:NE2	1:B:5004:THR:HA	2.32	0.40
1:E:192:ASP:OD1	1:E:192:ASP:N	2.55	0.40
1:E:418:LEU:HD13	1:E:493:ARG:HB3	2.04	0.40
1:E:1738:LEU:HD12	1:E:1738:LEU:HA	1.80	0.40
1:E:2951:ILE:HG13	1:E:2957:PHE:HB3	2.04	0.40
1:E:3264:THR:O	1:E:3267:PRO:HD3	2.21	0.40
1:E:3327:LEU:HD22	1:E:3368:ARG:NH1	2.36	0.40
1:E:3558:HIS:CD2	1:E:3559:LEU:HG	2.57	0.40
1:E:3943:ILE:HD11	1:E:4002:LYS:HE2	2.03	0.40
1:E:4071:ILE:O	1:E:4074:SER:OG	2.36	0.40
1:E:4966:ASP:N	1:E:4966:ASP:OD1	2.53	0.40
1:G:439:GLU:H	1:G:439:GLU:CD	2.29	0.40
1:G:2485:LEU:HD23	1:G:2485:LEU:HA	1.95	0.40
1:G:2536:LEU:HA	1:G:2541:PHE:HB3	2.03	0.40
1:G:2598:ALA:O	1:G:2602:VAL:HG23	2.21	0.40
1:G:2973:PHE:CD1	1:G:2995:ILE:HG12	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3010:PHE:O	1:G:3014:CYS:HB2	2.21	0.40
1:G:3327:LEU:HD22	1:G:3368:ARG:NH1	2.36	0.40
1:G:3965:LEU:HA	1:G:3968:TYR:CD2	2.57	0.40
1:G:4725:LEU:HA	1:G:4737:ILE:HG21	2.02	0.40
1:J:144:GLU:HB2	1:J:174:VAL:HG23	2.04	0.40
1:J:2661:TRP:CZ3	1:J:2664:PHE:HD2	2.38	0.40
1:J:2973:PHE:CD1	1:J:2973:PHE:C	2.99	0.40
1:J:3558:HIS:CD2	1:J:3559:LEU:HG	2.57	0.40
1:J:4114:CYS:O	1:J:4131:ARG:NH2	2.55	0.40
1:J:4754:ASN:CG	1:J:4756:ARG:HH12	2.30	0.40
2:H:5:GLU:HA	2:H:5:GLU:OE1	2.22	0.40
2:H:39:SER:OG	2:H:44:LYS:O	2.40	0.40
2:I:5:GLU:OE1	2:I:5:GLU:HA	2.22	0.40
1:B:172:VAL:HA	1:B:178:ARG:O	2.21	0.40
1:B:664:PHE:CE1	1:B:746:CYS:HB2	2.57	0.40
1:B:906:CYS:O	1:B:908:VAL:HG23	2.21	0.40
1:B:2247:GLN:HG3	1:B:2279:SER:HA	2.04	0.40
1:B:3453:ARG:NH1	1:B:3453:ARG:HA	2.37	0.40
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.57	0.40
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.22	0.40
1:B:4966:ASP:OD1	1:B:4966:ASP:N	2.53	0.40
1:E:1733:GLU:O	1:E:1772:ARG:NH1	2.52	0.40
1:E:2247:GLN:HG3	1:E:2279:SER:HA	2.04	0.40
1:E:2598:ALA:O	1:E:2602:VAL:HG23	2.21	0.40
1:E:2968:ASP:OD1	1:E:2968:ASP:N	2.54	0.40
1:E:3062:PRO:HA	1:E:3065:VAL:HG22	2.02	0.40
1:G:2254:LEU:O	1:G:2258:LEU:HG	2.22	0.40
1:G:2286:LEU:HD23	1:G:2286:LEU:HA	1.93	0.40
1:G:3046:LEU:HA	1:G:3049:LEU:HG	2.03	0.40
1:G:3530:GLN:OE1	1:G:3530:GLN:N	2.52	0.40
1:G:3639:THR:N	1:G:3640:PRO:HD2	2.35	0.40
1:G:4209:GLN:H	1:G:4209:GLN:HG3	1.65	0.40
1:J:192:ASP:N	1:J:192:ASP:OD1	2.55	0.40
1:J:361:ALA:O	1:J:362:PRO:C	2.65	0.40
1:J:581:ASN:OD1	1:J:581:ASN:N	2.53	0.40
1:J:623:GLU:HG2	2:I:88:PRO:HB3	2.02	0.40
1:J:987:ARG:HG3	1:J:987:ARG:H	1.75	0.40
1:J:2247:GLN:HG3	1:J:2279:SER:HA	2.04	0.40
1:J:2263:ILE:O	1:J:2330:ARG:NH1	2.51	0.40
1:J:3398:PHE:HD1	1:J:3451:PHE:CD2	2.40	0.40
1:J:4998:LYS:HB2	1:J:4998:LYS:HE3	1.72	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	4247/5037 (84%)	4148 (98%)	96 (2%)	3 (0%)	48	79
1	E	4247/5037 (84%)	4149 (98%)	96 (2%)	2 (0%)	100	100
1	G	4247/5037 (84%)	4148 (98%)	97 (2%)	2 (0%)	100	100
1	J	4247/5037 (84%)	4148 (98%)	97 (2%)	2 (0%)	100	100
2	A	105/107 (98%)	102 (97%)	3 (3%)	0	100	100
2	D	105/107 (98%)	102 (97%)	3 (3%)	0	100	100
2	H	105/107 (98%)	102 (97%)	3 (3%)	0	100	100
2	I	105/107 (98%)	102 (97%)	3 (3%)	0	100	100
3	C	124/137 (90%)	118 (95%)	6 (5%)	0	100	100
3	F	124/137 (90%)	118 (95%)	6 (5%)	0	100	100
3	K	124/137 (90%)	118 (95%)	6 (5%)	0	100	100
3	M	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
All	All	17904/21124 (85%)	17472 (98%)	423 (2%)	9 (0%)	49	79

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	4117	ALA
1	E	4117	ALA
1	G	4117	ALA
1	J	4117	ALA
1	B	375	LYS
1	B	3972	PRO
1	E	3972	PRO
1	G	3972	PRO
1	J	3972	PRO

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	B	3658/4276 (86%)	3653 (100%)	5 (0%)	88	91
1	E	3658/4276 (86%)	3656 (100%)	2 (0%)	88	91
1	G	3658/4276 (86%)	3655 (100%)	3 (0%)	88	91
1	J	3658/4276 (86%)	3656 (100%)	2 (0%)	88	91
2	A	88/88 (100%)	88 (100%)	0	100	100
2	D	88/88 (100%)	88 (100%)	0	100	100
2	H	88/88 (100%)	88 (100%)	0	100	100
2	I	88/88 (100%)	88 (100%)	0	100	100
3	C	104/114 (91%)	104 (100%)	0	100	100
3	F	104/114 (91%)	104 (100%)	0	100	100
3	K	104/114 (91%)	104 (100%)	0	100	100
3	M	104/114 (91%)	104 (100%)	0	100	100
All	All	15400/17912 (86%)	15388 (100%)	12 (0%)	87	91

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1170	MET
1	B	1979	LEU
1	B	3069	HIS
1	B	3516	LYS
1	B	3534	MET
1	E	3069	HIS
1	E	3516	LYS
1	G	3069	HIS
1	G	3516	LYS
1	G	3534	MET
1	J	3069	HIS
1	J	3516	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (137)

such sidechains are listed below:

Mol	Chain	Res	Type
1	B	138	GLN
1	B	461	HIS
1	B	765	GLN
1	B	877	ASN
1	B	1299	GLN
1	B	1640	HIS
1	B	1696	HIS
1	B	1973	GLN
1	B	2005	GLN
1	B	2673	HIS
1	B	2892	GLN
1	B	2924	GLN
1	B	2931	GLN
1	B	2933	ASN
1	B	2991	HIS
1	B	3033	ASN
1	B	3069	HIS
1	B	3127	GLN
1	B	3146	HIS
1	B	3150	HIS
1	B	3180	ASN
1	B	3605	HIS
1	B	3734	HIS
1	B	3771	HIS
1	B	3895	HIS
1	B	3914	ASN
1	B	3970	GLN
1	B	4133	GLN
1	B	4574	ASN
1	B	5015	GLN
1	E	461	HIS
1	E	765	GLN
1	E	877	ASN
1	E	994	ASN
1	E	1133	HIS
1	E	1299	GLN
1	E	1586	ASN
1	E	1640	HIS
1	E	1663	HIS
1	E	1696	HIS
1	E	1973	GLN
1	E	2005	GLN

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Mol	Chain	Res	Type
1	E	2892	GLN
1	E	2924	GLN
1	E	2931	GLN
1	E	2933	ASN
1	E	2991	HIS
1	E	3033	ASN
1	E	3069	HIS
1	E	3146	HIS
1	E	3150	HIS
1	E	3180	ASN
1	E	3605	HIS
1	E	3700	GLN
1	E	3771	HIS
1	E	3895	HIS
1	E	3914	ASN
1	E	3970	GLN
1	E	4133	GLN
1	E	4574	ASN
1	E	5015	GLN
1	G	84	ASN
1	G	461	HIS
1	G	765	GLN
1	G	877	ASN
1	G	1133	HIS
1	G	1274	HIS
1	G	1299	GLN
1	G	1586	ASN
1	G	1640	HIS
1	G	1696	HIS
1	G	1973	GLN
1	G	2005	GLN
1	G	2125	HIS
1	G	2673	HIS
1	G	2892	GLN
1	G	2924	GLN
1	G	2931	GLN
1	G	2933	ASN
1	G	2991	HIS
1	G	3033	ASN
1	G	3069	HIS
1	G	3146	HIS
1	G	3150	HIS

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Mol	Chain	Res	Type
1	G	3180	ASN
1	G	3605	HIS
1	G	3771	HIS
1	G	3895	HIS
1	G	3914	ASN
1	G	3970	GLN
1	G	4133	GLN
1	G	4574	ASN
1	G	5015	GLN
1	G	5035	GLN
1	J	461	HIS
1	J	765	GLN
1	J	877	ASN
1	J	1274	HIS
1	J	1299	GLN
1	J	1586	ASN
1	J	1640	HIS
1	J	1663	HIS
1	J	1696	HIS
1	J	1973	GLN
1	J	2005	GLN
1	J	2892	GLN
1	J	2924	GLN
1	J	2931	GLN
1	J	2933	ASN
1	J	3069	HIS
1	J	3127	GLN
1	J	3146	HIS
1	J	3150	HIS
1	J	3180	ASN
1	J	3605	HIS
1	J	3734	HIS
1	J	3771	HIS
1	J	3895	HIS
1	J	3914	ASN
1	J	3970	GLN
1	J	4133	GLN
1	J	4574	ASN
1	J	5015	GLN
2	A	70	GLN
2	D	31	GLN
2	D	70	GLN

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Mol	Chain	Res	Type
2	H	31	GLN
2	H	70	GLN
2	I	31	GLN
2	I	70	GLN
3	C	3	GLN
3	F	3	GLN
3	F	73	ASN
3	K	3	GLN
3	K	73	ASN
3	M	3	GLN
3	M	105	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 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

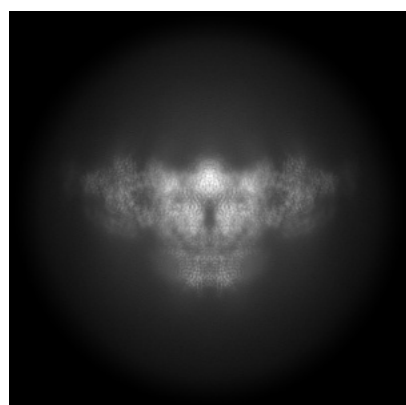
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19466. These allow visual inspection of the internal detail of the map and identification of artifacts.

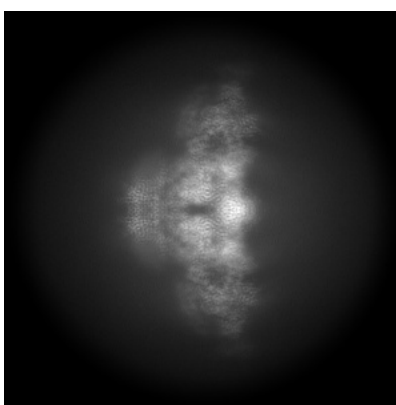
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

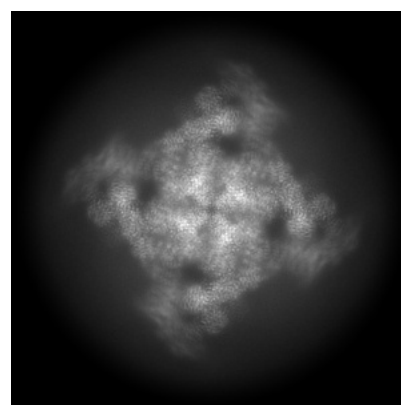
6.1.1 Primary map



X



Y

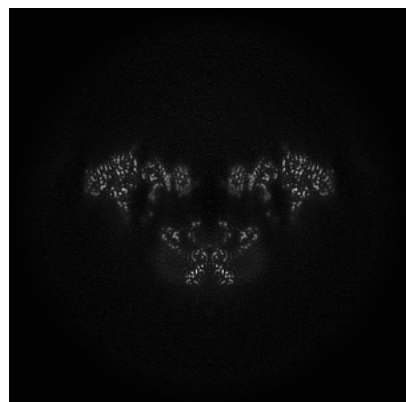


Z

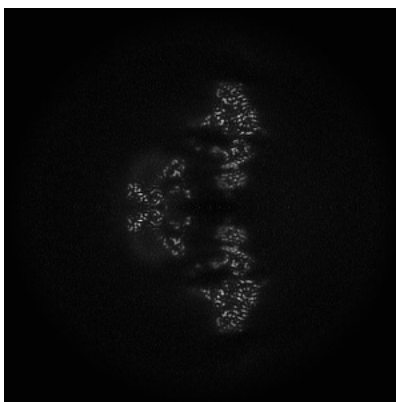
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

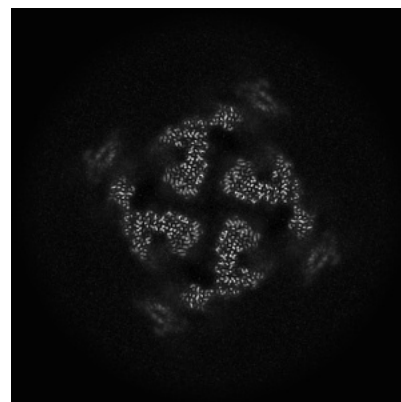
6.2.1 Primary map



X Index: 168



Y Index: 168

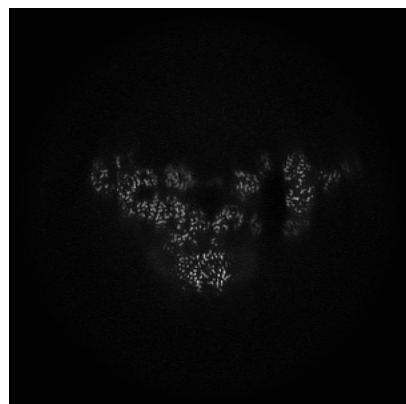


Z Index: 168

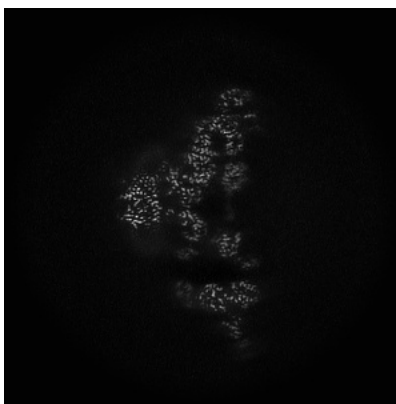
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

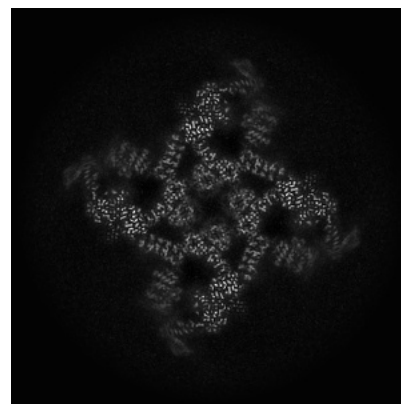
6.3.1 Primary map



X Index: 178



Y Index: 178

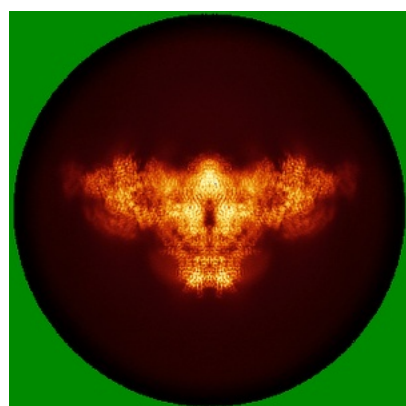


Z Index: 187

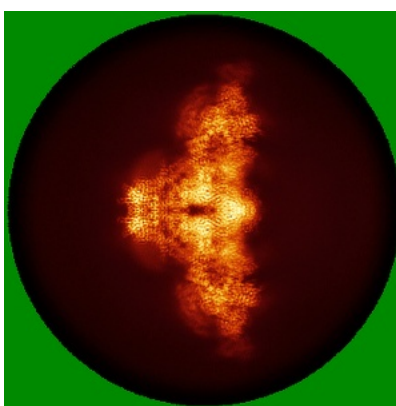
The images above show the largest variance slices of the map in three orthogonal directions.

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

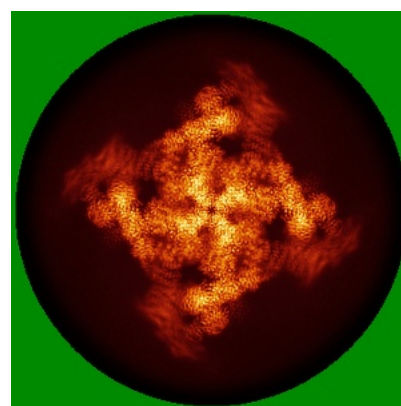
6.4.1 Primary map



X



Y

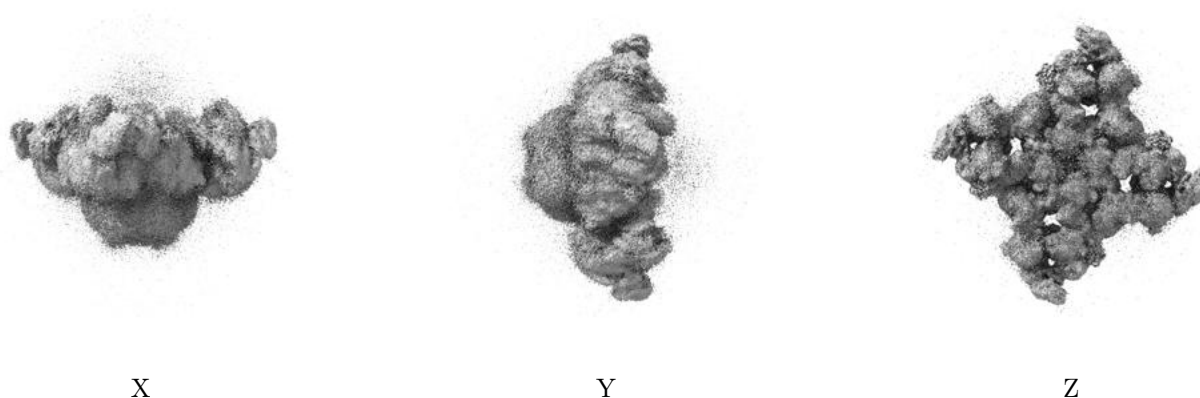


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.35. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

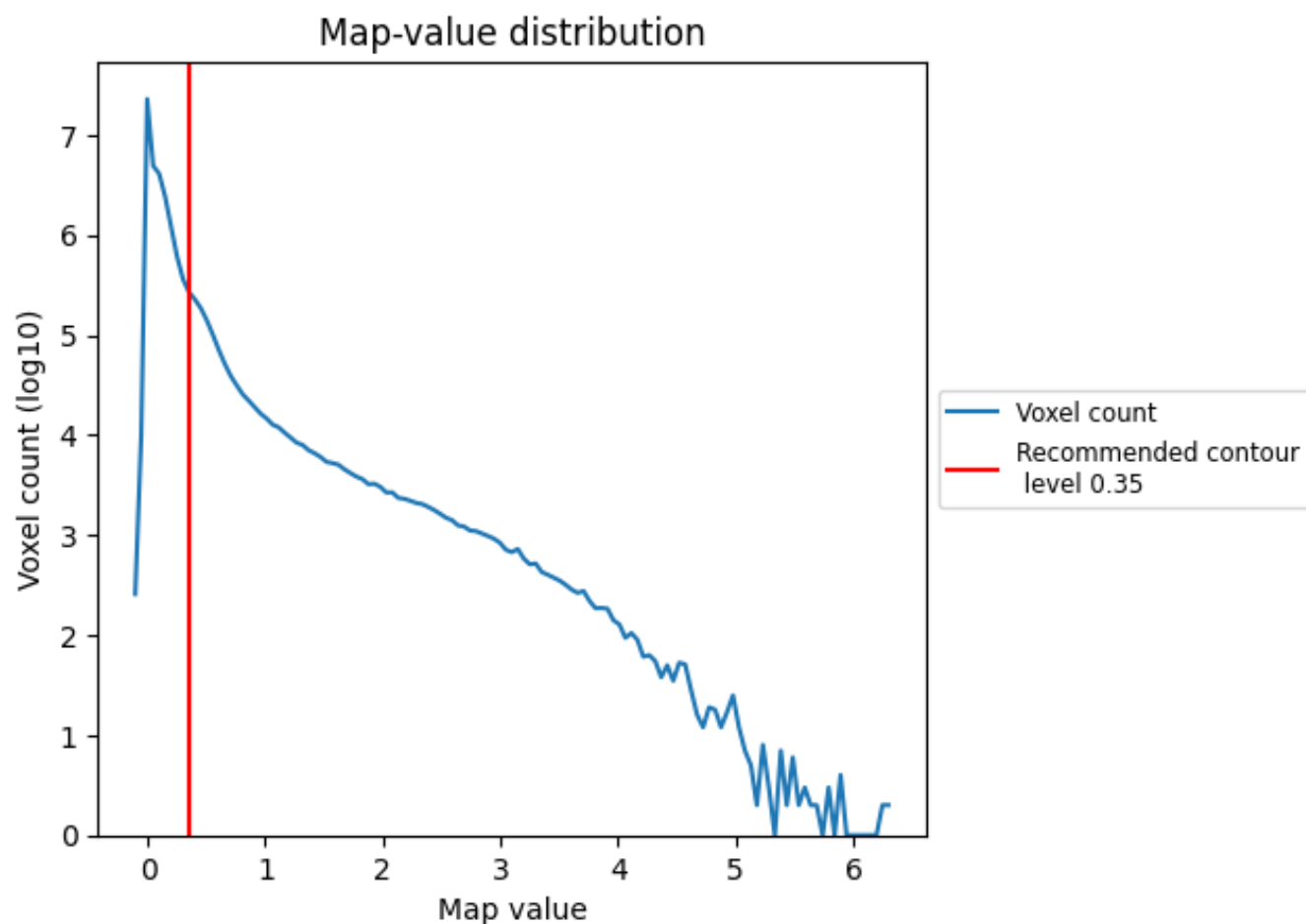
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

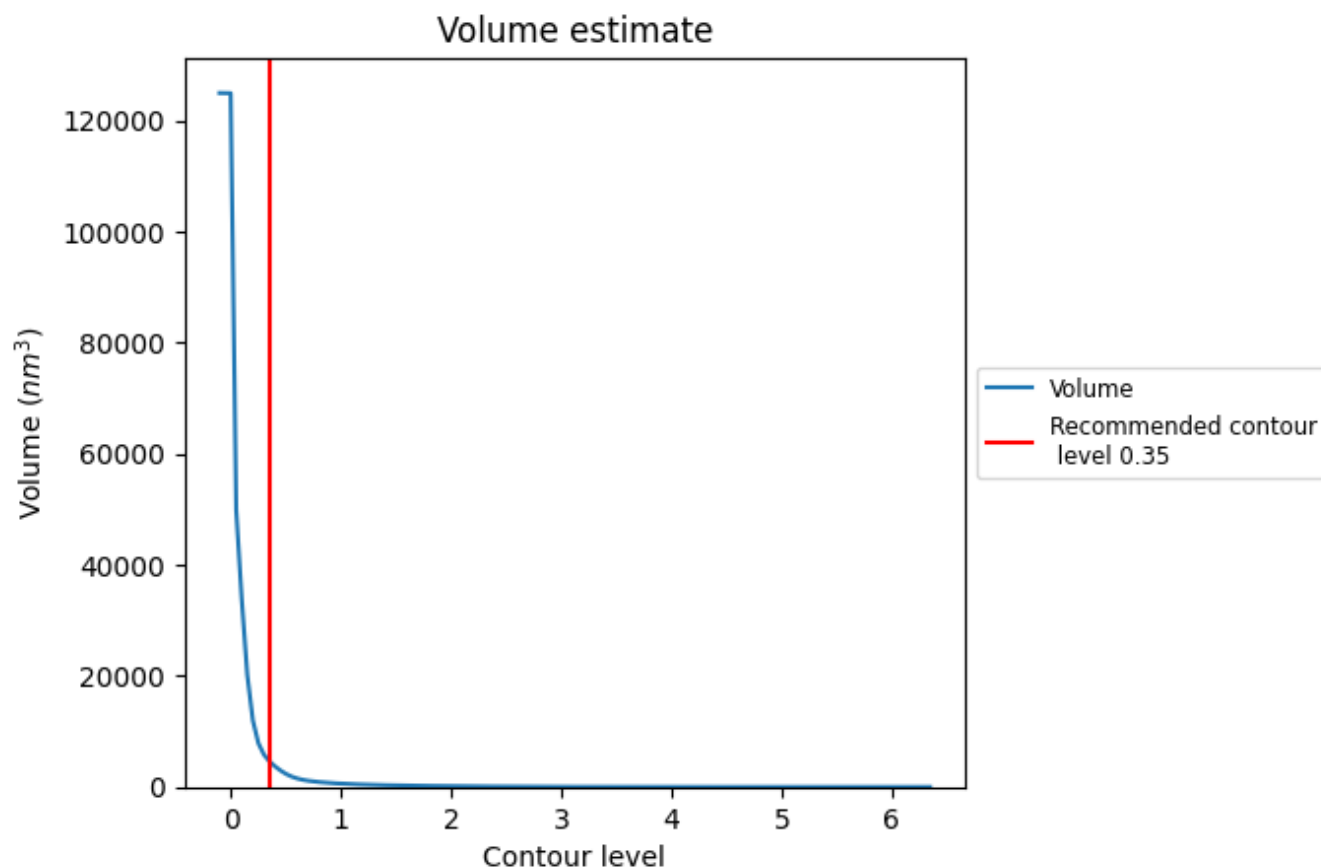
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

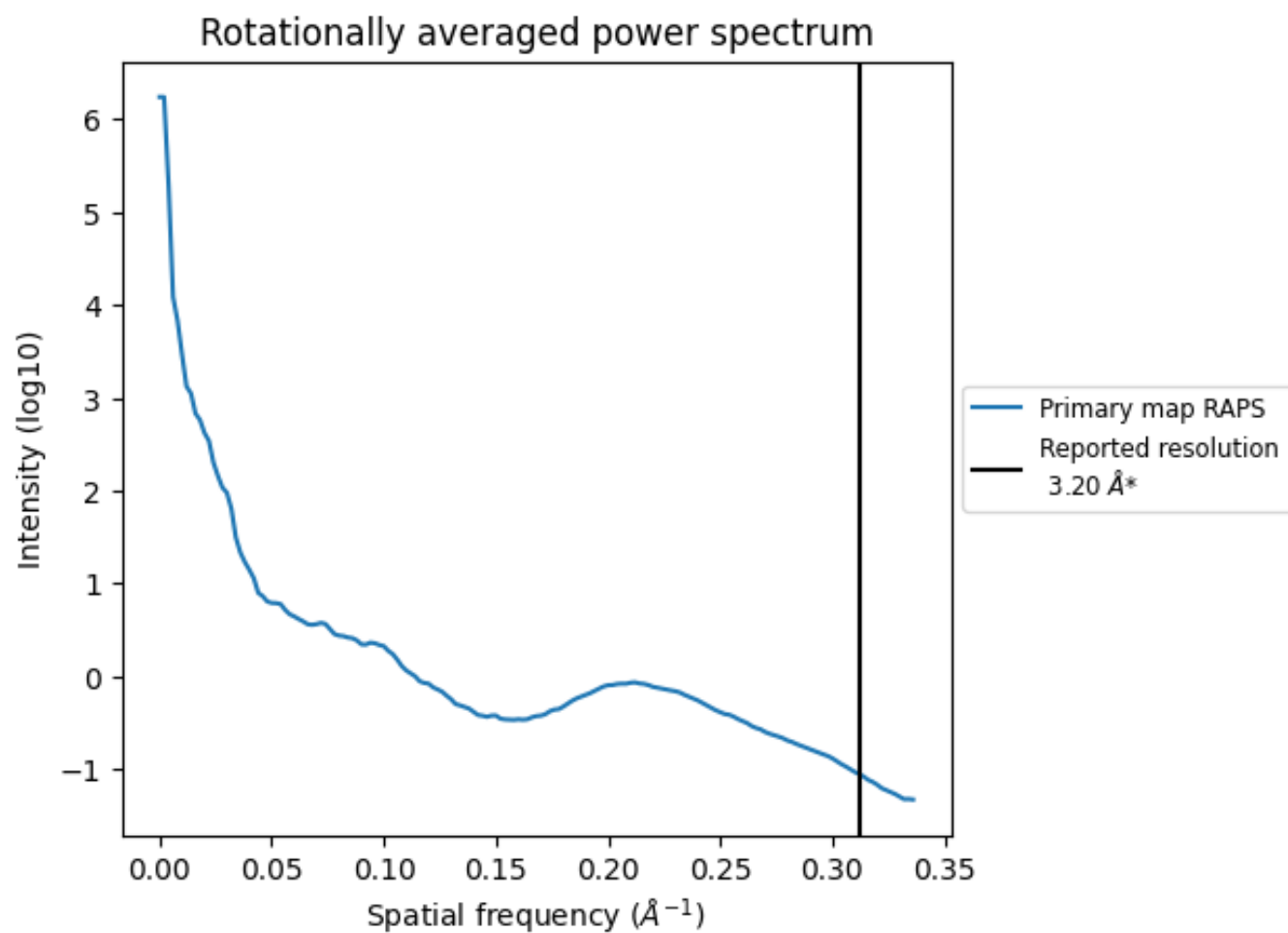
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4570 nm^3 ; this corresponds to an approximate mass of 4129 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 ⓘ

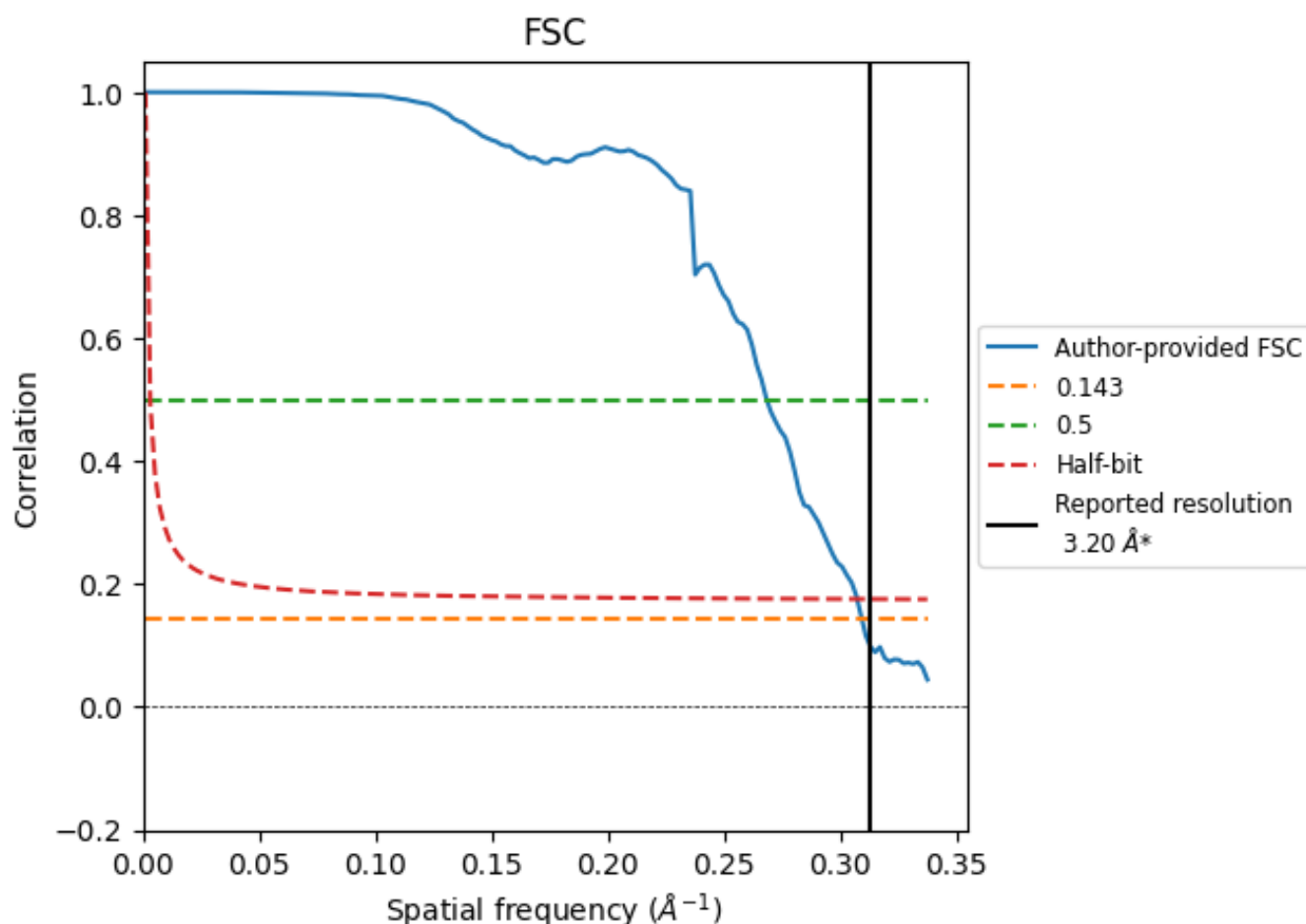


*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

8.2 Resolution estimates [i](#)

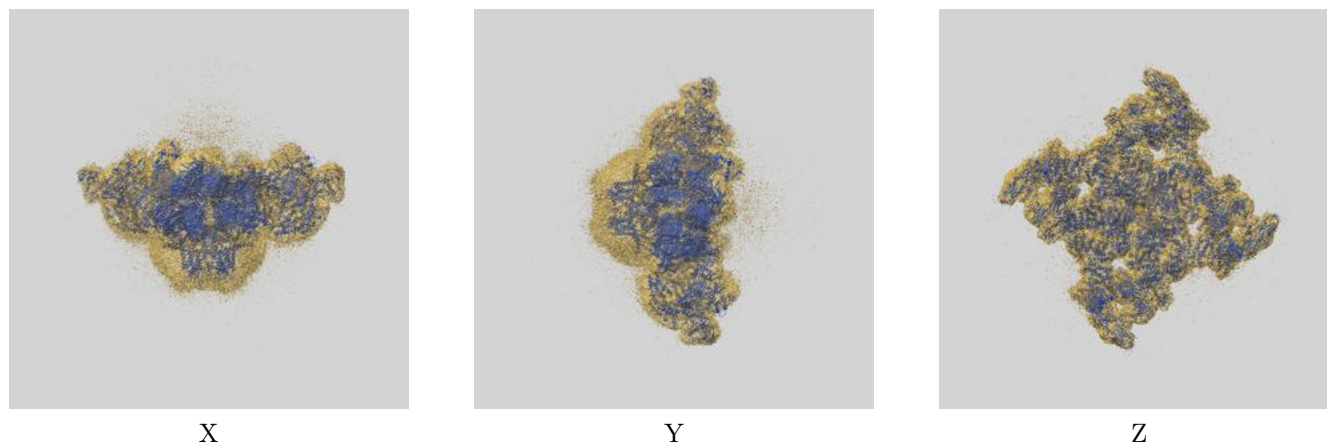
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.20	-	-
Author-provided FSC curve	3.23	3.73	3.26
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

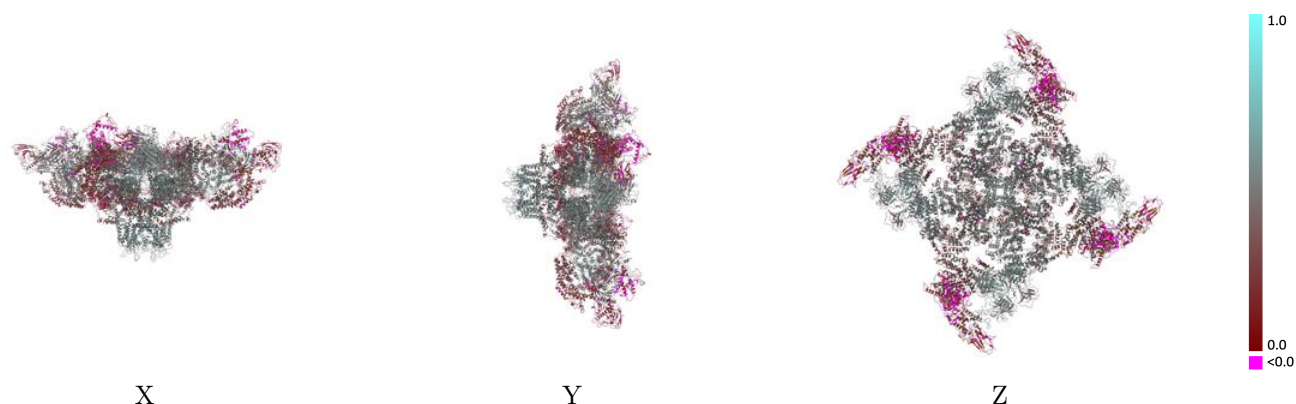
This section contains information regarding the fit between EMDB map EMD-19466 and PDB model 8RRV. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



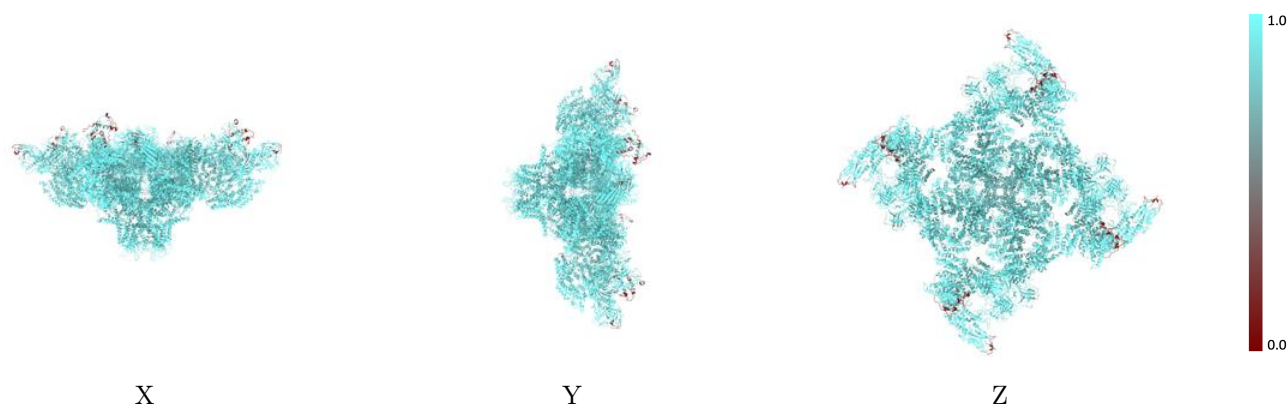
The images above show the 3D surface view of the map at the recommended contour level 0.35 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



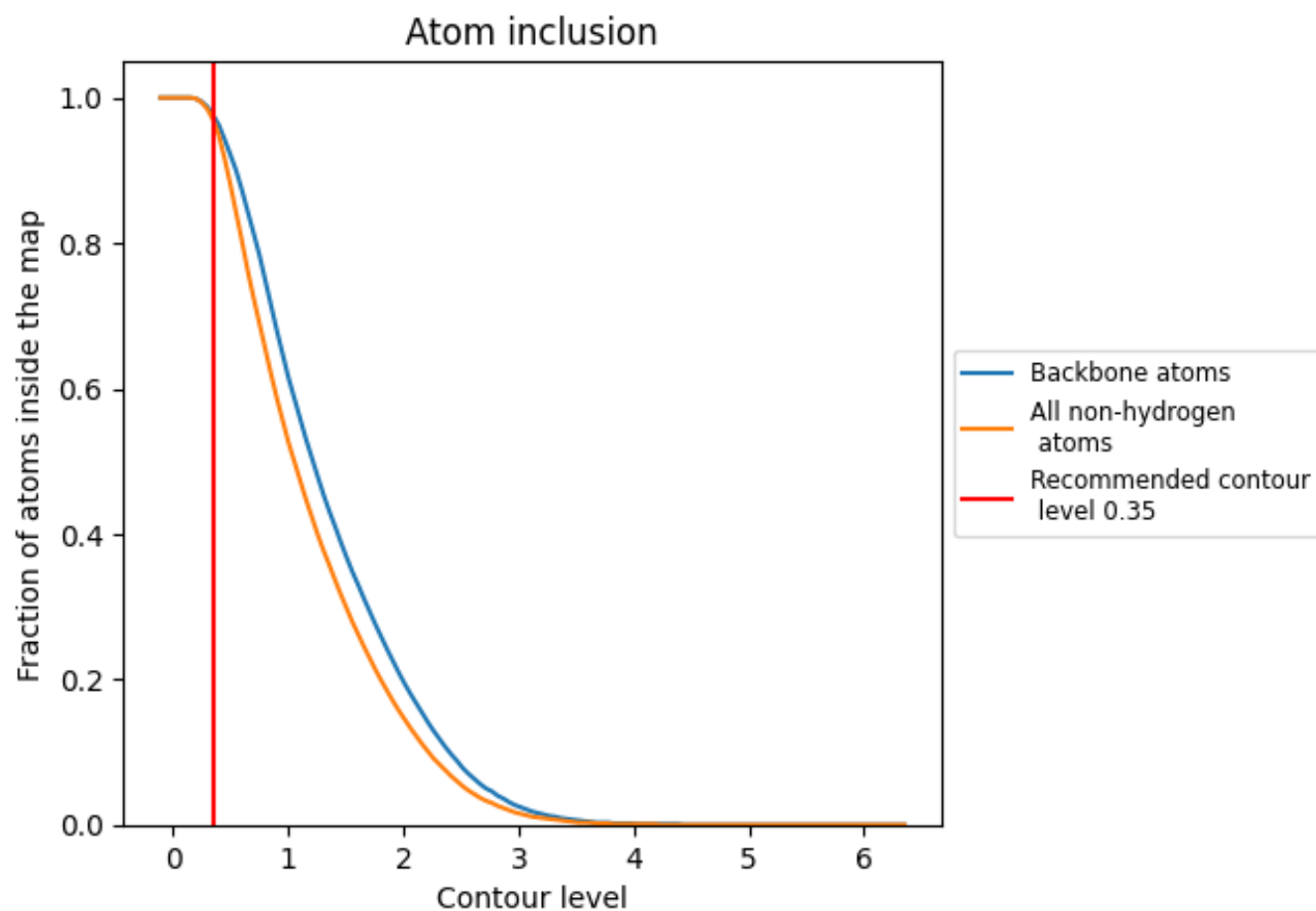
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.35).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 97% 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 (0.35) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9700	0.3800
A	0.8810	0.4120
B	0.9770	0.3850
C	0.7720	0.1480
D	0.8780	0.4170
E	0.9780	0.3850
F	0.7760	0.1480
G	0.9770	0.3850
H	0.8860	0.4150
I	0.8810	0.4170
J	0.9770	0.3860
K	0.7770	0.1480
M	0.7720	0.1500

1.0

0.0

<0.0