



Full wwPDB EM Validation Report ⓘ

Nov 5, 2024 – 01:39 AM EST

PDB ID : 8UXF
EMDB ID : EMD-42762
Title : Structure of PKA phosphorylated human RyR2-R420W in the primed state
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2023-11-09
Resolution : 3.13 Å (reported)
Based on initial model : 7UA5

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

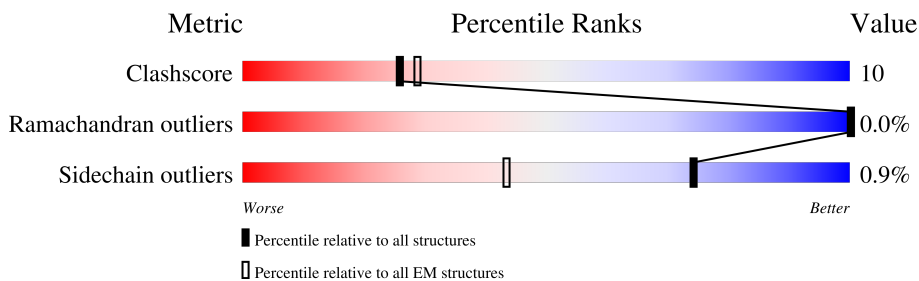
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.13 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



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

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

Mol	Chain	Length	Quality of chain
1	A	4967	
1	B	4967	
1	C	4967	
1	D	4967	
2	E	108	
2	F	108	
2	G	108	
2	H	108	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 138620 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 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	4224	33774	21521	5743	6280	230	2	0
1	B	4224	33774	21521	5743	6280	230	2	0
1	C	4224	33774	21521	5743	6280	230	2	0
1	D	4224	33774	21521	5743	6280	230	2	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	420	TRP	ARG	variant	UNP Q92736
B	420	TRP	ARG	variant	UNP Q92736
C	420	TRP	ARG	variant	UNP Q92736
D	420	TRP	ARG	variant	UNP Q92736

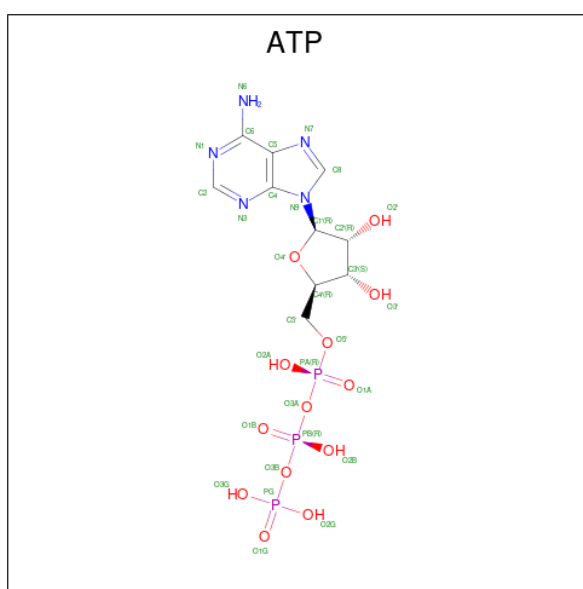
- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

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

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

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

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



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

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

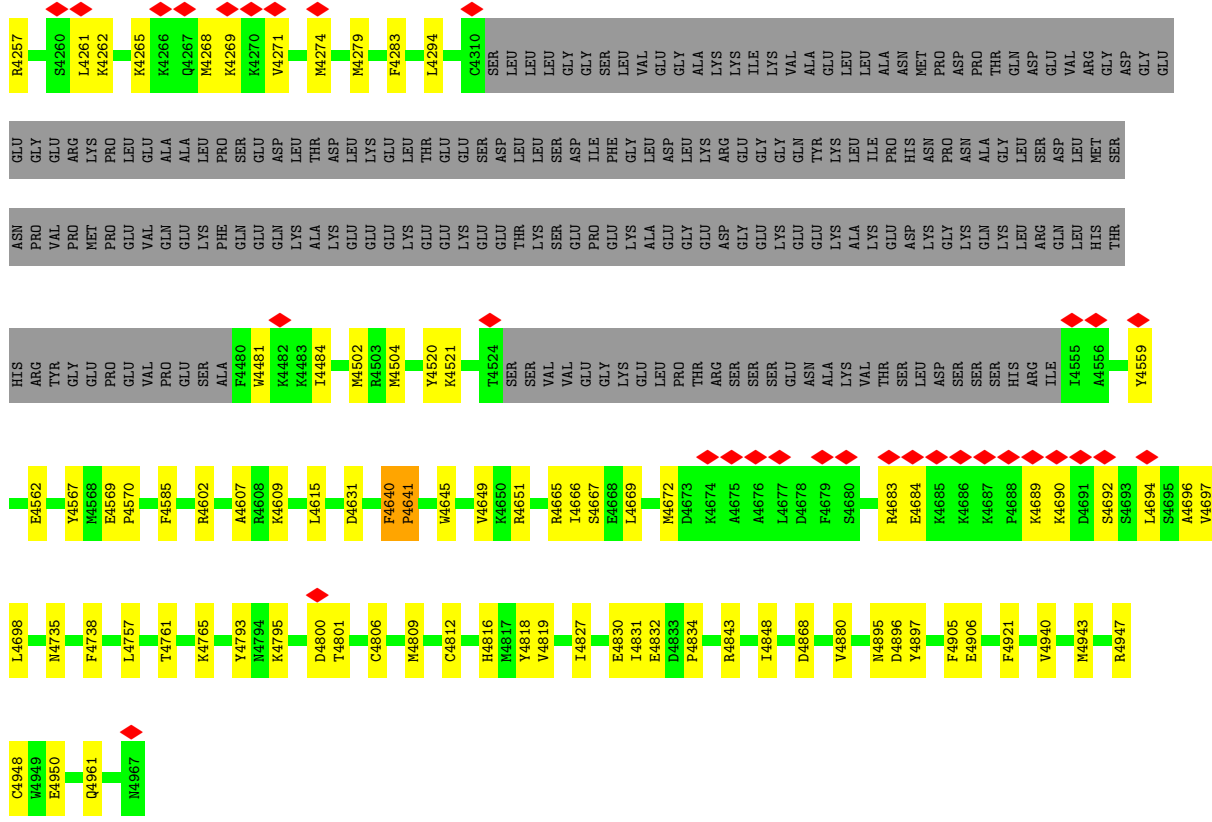
3 Residue-property plots

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

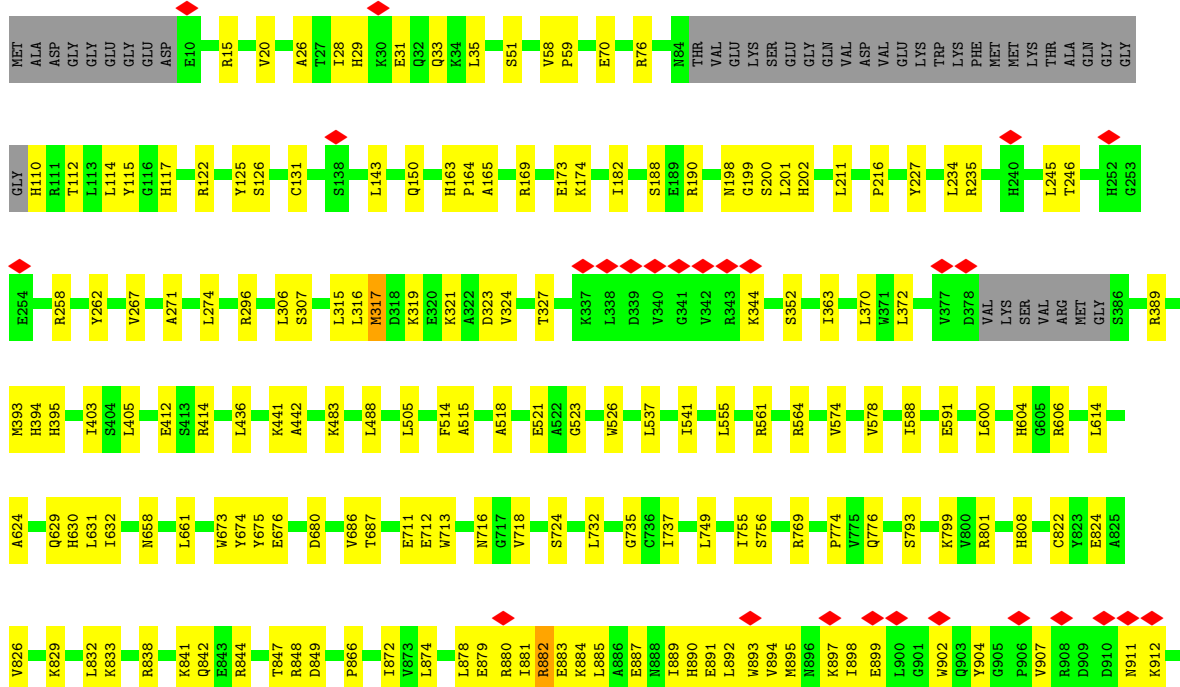
• Molecule 1: Ryanodine receptor 2

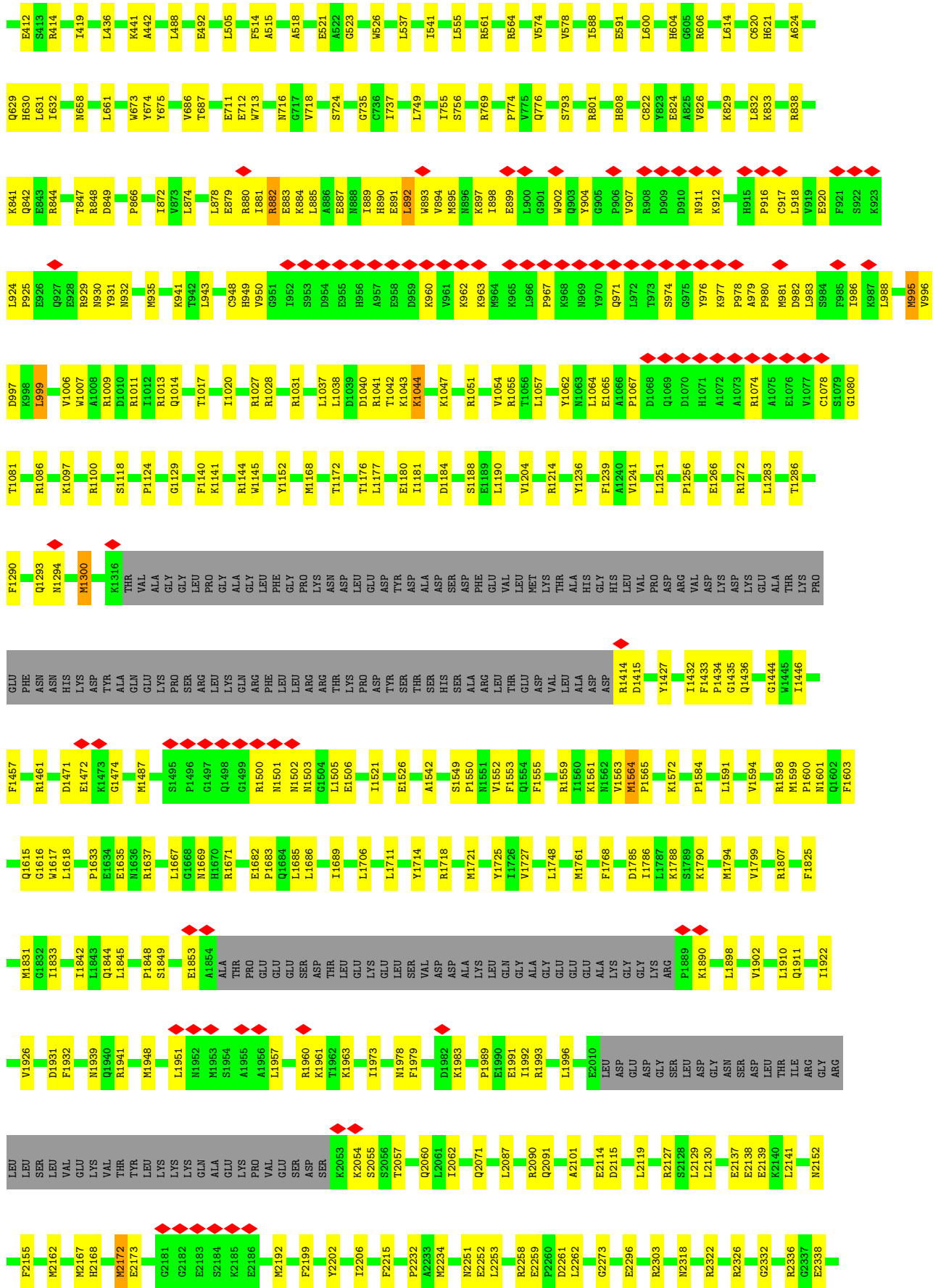


R4144	E4034	R3806	G3648	GLU	ILE	SER	PHE	M3231	G5156	E3069	H2978	D2891
S4155	Y4035	Q3811	A3649	ARG	ALA	PHE	TYR	P3232	G1567	K3070	R2979	R2894
Q4159	D4036	L3817	E3650	VAL	LEU	LEU	PRO	H3233	C9158	M3071	R2979	F2895
V4177	P4037	L3819	P3651	ASP	ALA	THR	LEU	M3234	L3159	E3073	L2983	L2896
M4178	D4038	G3818	E3652	ILE	ASN	THR	ILE	M3235	A3160	K3074	L2987	L2987
E4179	G4039	M3819	E3653	ALA	ARG	THR	LYS	Y3236	A3161	L3075	A2986	L2898
S4182	K4040	V3820	E3654	ASN	PHE	THR	PHE	L3238	F3162	K3076	S2987	M2899
K4183	K4041	V3821	E3655	VAL	SER	SER	VAL	L3239	F3166	Q3077	R2988	A2902
E4187	F4042	E3822	E3656	HIS	LYS	ASN	TYR	M3241	V3167	Q3079	K2999	R2905
E4194	F4043	E3823	G3657	LYS	THR	LYS	TYR	F3080	F3168	F3080	G2902	G2906
S4195	F4044	G3824	T3658	GLU	ASP	ALA	ALA	T3081	E3172	H3173	M3003	F2907
T4196	H4045	S3825	K3659	GLN	ASP	ALA	ALA	M3249	T3173	THR	K3010	K2908
E4199	H4046	E3827	L3664	LYS	VAL	SER	LYS	M3256	H3174	THR	V3013	D2909
M4200	F4047	G3826	L3668	LYS	VAL	ASP	LEU	E3259	L3175	ARG	L3014	E2911
S4209	Q4048	V3829	I3668	ARG	ASP	GLN	LEU	R3260	D3176	ASN	V3015	L2912
ASP	F4049	L3830	I3668	VAL	ILE	GLU	PRO	R3260	H3177	PRO	R3016	L2914
ASN	Y4058	D3833	A3692	GLY	ILE	GLU	ASN	M3263	N3178	V3090	H3017	T2914
GLU	T4059	E3834	M3695	ARG	ARG	LYS	PRO	L3183	I3183	G3088	R3018	E2918
ARG	Q4060	F3835	A3696	HIS	SER	LYS	GLU	T3266	Y3184	G3089	L3021	Y2923
LEU	E4062	F3854	K3697	CYS	ASN	MET	ALA	L3268	N3185	L3102	D3025	S2924
GLU	E4064	Q3861	S3698	VAL	LEU	GLY	PHE	M3269	S3188	P3103	A3026	F2925
ALA	L4067	Q3864	H3700	VAL	GLY	ASP	LEU	E3270	S3189	Q3114	L2926	L2926
SER	A4070	Q3882	D3701	HIS	LEU	TYR	VAL	S3271	R3190	H3115	S3028	L2929
ASN	E4071	W3880	E3702	GLN	GLU	SER	ALA	R3272	E3191	Q3116	V3030	L2930
LYS	T4072	W3890	GLU	ASP	ASP	MET	GLU	T3275	R3192	G3118	L3033	H2937
GLU	E4074	Q3901	GLY	ASP	PRO	GLN	VAL	L3276	S3196	E3119	H3034	D2944
LYS	M4075	R3904	E3710	ALA	ILE	THR	ILE	M3279	L3197	D3120	I3035	G2945
ARG	L4078	N3905	V3711	VAL	TRP	ILE	TRP	L3281	P3198	I3121	L3036	G2946
PRO	E4082	G3926	K3712	TRP	GLN	VAL	SER	K3282	N3200	L3123	T3039	S2947
GLU	F4083	R3939	K3717	LYS	ALA	ALA	ALA	L3284	E3203	V3126	D3041	R2948
GLN	K4085	G3946	Q3728	LEU	TYR	LYS	HIS	I3288	D3203	Q3127	R3042	K2950
PRO	H4088	F3947	Q3729	LEU	LYS	ARG	LYS	G3289	V3204	S3129	T3044	G2951
ARG	I4094	L3965	R3730	ARG	ASN	ILE	GLU	D3291	P3209	C3130	V3045	P2955
ALA	D4093	K3969	L3731	ARG	THR	GLY	ASN	E3294	K3213	Y3131	M3046	F2954
PHE	I4094	L3986	H3732	ALA	THR	ILE	PHE	A3294	L3214	F3133	K3054	P2955
PHE	S4106	L3986	L3741	ASP	ASP	ASN	ASN	M3295	E3216	L3134	L3057	Y2956
ALA	T4113	N3989	A3756	THR	THR	CYS	VAL	W3295	E3217	S3136	R3058	E2957
GLU	T4117	H4002	K3760	SER	ASP	ASN	VAL	K3297	V3219	L3137	A3059	G2958
GLY	F4118	V4010	N3770	ASP	PRO	GLY	GLN	R3298	A3222	L3140	D3062	E2959
LEU	L4119	V4010	N3770	ASP	PRO	GLY	GLN	F3502	R3227	S3145	N3063	I2960
E4120	E4120	L4023	M3777	GLU	GLU	ASP	ILE	Q3303	Y3228	E3149	E3067	V2966
L4121	L4121	L4026	L3778	THR	THR	ASN	ASN	Q3304	T3229	E3149	D3067	V2967
			L3796	VAL	VAL	LEU	MET	I3307	Q3230	R3152	L3068	L2970
										S3153		Q2973
												F2975



• Molecule 1: Ryanodine receptor 2

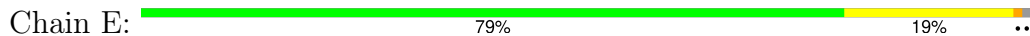




Y3228	E3149	E3066	H2978	A2889	L2737	E2660	V2475	M2318	E1902
I3229	R3152	D3087	R2979	Q2890	A2736	L2661	Q2481	R2332	L1910
N3230	S3153	L3068	L2983	D2891	N2739	F2662	L2488	E2138	Q1911
H3233	E3070	E3069	L2986	K2894	G2740	L2664	G2491	I2325	I1922
V3234	G3156	T3071	A2986	L2896	W2741	A2665	L2496	R2326	V1926
K3235	E3157	M3072	S2987	Q2897	I2742	L2666	R2497	G2336	D1931
E3236	C3158	E3073	R2988	I2898	Y2743	F2667	M2512	E2338	F1932
V3237	N3074	M3074	R2989	N2899	G2744	S2670	L2820	M2162	N1939
L3238	A3160	L3075	F2989	N2900	E2745	G2674	G2537	M2167	Q1940
L3239	A3161	K3076	L2990	R2905	E2746	M2681	E2539	H2168	R1941
P3240	F3162	Q3077	K2999	G2906	I2747	E2682	L2548	M2172	M1948
M3241	F3166	F2907	E3002	F2907	Y2748	M2688	R2554	E2173	L1951
R3248	F3167	Q2908	E3002	K2908	S2748	Y2685	E2570	O2181	N1952
W3249	V3168	D2909	M3003	D2909	D2749	M2689	E2539	G2182	M1953
K3250	F3081	L2910	K3010	L2910	S2750	E2690	L2548	E2183	S1954
N3256	T3081	E2911	E3015	E2911	K2752	K2691	R2359	S2184	A1955
E3259	THR	D2912	V3013	D2912	V2753	M2692	F2364	K2185	L1957
R3260	ASN	L2913	L3014	L2913	K2754	O2692	ASN	E2186	R1960
A3261	GLN	T2914	V3015	D2913	P2755	S2693	GLY	G2202	K1961
F3262	PRO	E2918	R3016	T2914	S2756	S2694	SER	I2206	T1962
K3263	K3088	E3018	H3017	E3018	M2757	M2695	L2873	F2215	K1963
T3266	G3089	V3090	R3018	E3018	K2758	D2696	R2581	D2216	R1978
A3267	V3090	L3093	L3019	Y2923	K2759	S2697	R2584	H2217	F1979
L3268	L3093	L3102	S3020	S2924	Y2760	E2698	M2584	Q2060	D1982
N3269	L3102	P3103	L3021	F2925	Y2761	G2699	W2585	L2062	K1983
S3270	P3103	Q3114	L3021	L2926	L2762	G2700	Q2586	Q2071	C1988
E3271	Q3114	H3117	L3021	I2930	L2763	M2701	L2589	L2087	E1990
R3272	H3115	S3028	S3029	H2937	S2764	E2765	L2592	L2087	E1991
N3273	H3115	L3029	V3030	H2937	E2765	Q2702	V2593	R2090	R1993
E3274	Q3116	S3028	V3030	H2937	K2766	Q2704	P2606	Q2091	L1996
L3276	Q3117	L3033	L3033	D2944	E2767	V2706	Y2620	A2101	E2010
L3277	G3118	H3034	H3034	G2945	K2768	D2707	W2627	E2114	LEU
G3278	E3119	L3035	L3035	G2946	I2770	E2708	G2628	E2259	ASP
N3279	D3120	L3036	L3036	G2946	I2771	T2708	N2629	D2261	GLU
L3280	L3121	L3036	L3036	S2947	Y2771	T2708	F2630	L2262	GLY
T3281	L3122	T3039	T3039	R2948	K2772	S2709	E2636	L2119	ASP
N3282	D3124	D3041	D3041	G2948	L2711	L2711	L2644	G2273	GLY
K3282	D3125	A3042	A3042	G2951	K2716	I2711	A2651	E2296	SER
L3283	D3126	T3044	T3044	E2952	L2717	E2710	F2440	R2127	SER
Y3285	Q3127	T3044	T3044	E2952	E2718	D2380	P2443	L2129	LEU
P3209	Q3128	V3045	V3045	H2953	E2719	T2381	L2445	L2129	ASP
L3288	S3129	M3046	M3046	F2954	F2720	T2381	F2440	R2303	ASN
G3289	C3130	K3047	K3047	P2955	M2782	T2381	F2440		
L3290	L3131	R3054	R3054	Y2956	L2783	T2381	F2440		
D3291	L3132	L3057	L3057	E2957	W2787	K2731	A2651		
E3292	L3133	R3058	R3058	I2960	R2788	K2731	A2651		
G3293	T3135	L3058	L3058	I2960	R2788	K2731	A2651		
A3294	S3136	K3059	K3059	K2965	R2791	K2731	A2651		
W3295	E3217	F3060	F3060	V2967	L2792	K2731	A2651		
V3219	L3137	F3060	F3060	V2967	R2793	K2731	A2651		
K3296	L3140	D3062	D3062	L2970	E2794	K2731	A2651		
K3297	L3140	N3063	N3063	L2970	G2795	K2731	A2651		
R3298	S3145	Q2973	Q2973	Q2973	D2796	K2731	A2651		
L3299	S3145	F2974	F2974	F2974	D2796	K2731	A2651		
					N2802	ARG			
						THR			
						ARG			



● 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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	102478	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.646	Depositor
Minimum map value	-0.013	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.031	Depositor
Recommended contour level	0.12	Depositor
Map size (Å)	430.848, 430.848, 430.848	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.8415, 0.8415, 0.8415	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.29	0/34516	0.49	2/46623 (0.0%)
1	B	0.29	0/34516	0.49	1/46623 (0.0%)
1	C	0.29	0/34516	0.49	2/46623 (0.0%)
1	D	0.29	0/34516	0.49	1/46623 (0.0%)
2	E	0.31	0/834	0.55	0/1123
2	F	0.31	0/834	0.55	0/1123
2	G	0.31	0/834	0.55	0/1123
2	H	0.31	0/834	0.55	0/1123
All	All	0.29	0/141400	0.49	6/190984 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
All	All	0	8

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3215	MET	CB-CG-SD	5.58	129.15	112.40
1	C	3215	MET	CB-CG-SD	5.58	129.14	112.40
1	B	3215	MET	CB-CG-SD	5.58	129.12	112.40
1	D	3215	MET	CB-CG-SD	5.57	129.12	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	892	LEU	CB-CG-CD2	-5.03	102.45	111.00
1	C	892	LEU	CB-CG-CD2	-5.02	102.46	111.00

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	3926	GLY	Peptide
1	A	4640	PHE	Peptide
1	B	3926	GLY	Peptide
1	B	4640	PHE	Peptide
1	C	3926	GLY	Peptide
1	C	4640	PHE	Peptide
1	D	3926	GLY	Peptide
1	D	4640	PHE	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	33774	0	33452	689	0
1	B	33774	0	33452	685	0
1	C	33774	0	33452	679	0
1	D	33774	0	33452	694	0
2	E	818	0	821	14	0
2	F	818	0	821	17	0
2	G	818	0	821	17	0
2	H	818	0	821	16	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	62	0	24	0	0
4	B	62	0	24	0	0
4	C	62	0	24	0	0
4	D	62	0	24	0	0
All	All	138620	0	137188	2751	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 10.

All (2751) 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:B:3235:MET:HA	1:B:3239:LEU:HD13	1.41	1.03
1:D:3235:MET:HA	1:D:3239:LEU:HD13	1.41	1.02
1:C:3235:MET:HA	1:C:3239:LEU:HD13	1.41	1.02
1:A:3235:MET:HA	1:A:3239:LEU:HD13	1.41	1.02
1:B:3152:ARG:HH21	1:B:3236:GLU:HB3	1.39	0.88
1:C:3152:ARG:HH21	1:C:3236:GLU:HB3	1.39	0.87
1:A:3152:ARG:HH21	1:A:3236:GLU:HB3	1.39	0.86
1:A:4237:SER:N	1:A:4240:THR:HG1	1.74	0.85
1:C:4237:SER:N	1:C:4240:THR:HG1	1.74	0.85
2:H:50:ARG:HE	2:H:53:LYS:HZ3	1.24	0.84
1:D:3152:ARG:HH21	1:D:3236:GLU:HB3	1.39	0.84
2:F:50:ARG:HE	2:F:53:LYS:HZ3	1.25	0.84
1:D:4237:SER:N	1:D:4240:THR:HG1	1.75	0.84
1:A:3270:SER:HA	1:A:3273:MET:HE2	1.61	0.82
1:B:4237:SER:N	1:B:4240:THR:HG1	1.77	0.82
2:E:50:ARG:HE	2:E:53:LYS:HZ3	1.24	0.81
1:B:3270:SER:HA	1:B:3273:MET:HE2	1.62	0.81
2:G:50:ARG:HE	2:G:53:LYS:HZ3	1.24	0.80
1:A:3197:LEU:HD23	1:A:3199:THR:H	1.47	0.80
1:C:3270:SER:HA	1:C:3273:MET:HE2	1.61	0.80
1:D:3270:SER:HA	1:D:3273:MET:HE2	1.62	0.80
1:D:3197:LEU:HD23	1:D:3199:THR:H	1.47	0.80
1:B:3197:LEU:HD23	1:B:3199:THR:H	1.47	0.79
1:B:2251:ASN:HD22	1:B:3817:LEU:HD11	1.48	0.78
1:C:3197:LEU:HD23	1:C:3199:THR:H	1.47	0.78
1:D:2251:ASN:HD22	1:D:3817:LEU:HD11	1.48	0.78
1:A:2251:ASN:HD22	1:A:3817:LEU:HD11	1.48	0.78
1:B:4665:ARG:HH21	1:B:4666:ILE:HD13	1.50	0.76
1:C:4665:ARG:HH21	1:C:4666:ILE:HD13	1.50	0.76
1:C:924:LEU:HD12	1:C:925:PRO:HD2	1.68	0.75
1:C:2251:ASN:HD22	1:C:3817:LEU:HD11	1.48	0.75
1:D:4665:ARG:HH21	1:D:4666:ILE:HD13	1.50	0.74
1:A:924:LEU:HD12	1:A:925:PRO:HD2	1.68	0.74
1:D:924:LEU:HD12	1:D:925:PRO:HD2	1.68	0.74
1:A:4665:ARG:HH21	1:A:4666:ILE:HD13	1.50	0.74
1:C:894:VAL:HG12	1:C:897:LYS:HZ2	1.53	0.73
1:D:2693:SER:OG	1:D:2704:GLN:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2693:SER:OG	1:B:2704:GLN:NE2	2.21	0.73
1:A:2693:SER:OG	1:A:2704:GLN:NE2	2.21	0.73
1:C:2693:SER:OG	1:C:2704:GLN:NE2	2.21	0.73
1:B:924:LEU:HD12	1:B:925:PRO:HD2	1.68	0.73
1:B:3013:VAL:O	1:B:3018:ARG:NH2	2.22	0.73
1:D:3013:VAL:O	1:D:3018:ARG:NH2	2.22	0.73
1:A:4279:MET:HE2	1:B:4484:ILE:HA	1.69	0.73
1:A:988:LEU:HD12	1:A:1055:ARG:HD3	1.71	0.72
1:C:988:LEU:HD12	1:C:1055:ARG:HD3	1.71	0.72
1:C:3013:VAL:O	1:C:3018:ARG:NH2	2.22	0.72
1:A:3013:VAL:O	1:A:3018:ARG:NH2	2.22	0.72
1:D:894:VAL:HG12	1:D:897:LYS:HZ2	1.53	0.72
1:D:3269:ASN:HB3	1:D:3272:HIS:ND1	2.05	0.72
1:A:3269:ASN:HB3	1:A:3272:HIS:ND1	2.05	0.72
1:B:988:LEU:HD12	1:B:1055:ARG:HD3	1.71	0.71
1:D:1941:ARG:HH21	1:D:3609:TYR:HB2	1.55	0.71
1:A:1941:ARG:HH21	1:A:3609:TYR:HB2	1.55	0.71
1:C:4279:MET:HE2	1:D:4484:ILE:HA	1.70	0.71
1:A:2488:LEU:HD21	1:A:2548:LEU:HD22	1.72	0.71
1:D:988:LEU:HD12	1:D:1055:ARG:HD3	1.71	0.71
1:D:2488:LEU:HD21	1:D:2548:LEU:HD22	1.72	0.71
1:B:3269:ASN:HB3	1:B:3272:HIS:ND1	2.05	0.71
1:C:3269:ASN:HB3	1:C:3272:HIS:ND1	2.05	0.71
1:B:894:VAL:HG12	1:B:897:LYS:HZ2	1.56	0.70
1:B:1941:ARG:HH21	1:B:3609:TYR:HB2	1.55	0.70
1:C:1941:ARG:HH21	1:C:3609:TYR:HB2	1.55	0.70
1:C:3042:ALA:HB1	1:C:3121:LEU:HD13	1.73	0.70
1:B:3042:ALA:HB1	1:B:3121:LEU:HD13	1.73	0.70
1:C:2791:ARG:HH12	1:C:2795:GLY:HA3	1.57	0.70
1:D:2791:ARG:HH12	1:D:2795:GLY:HA3	1.57	0.70
1:D:894:VAL:HA	1:D:897:LYS:HG2	1.73	0.70
1:D:2723:LYS:HG2	1:D:2895:PHE:HZ	1.56	0.70
1:B:2791:ARG:HH12	1:B:2795:GLY:HA3	1.57	0.70
1:C:1038:LEU:O	1:C:1043:LYS:NZ	2.24	0.70
1:D:769:ARG:HG2	1:D:774:PRO:HA	1.74	0.70
1:A:363:ILE:HD11	1:A:403:ILE:HD13	1.74	0.70
1:A:894:VAL:HA	1:A:897:LYS:HG2	1.73	0.70
1:A:1038:LEU:O	1:A:1043:LYS:NZ	2.24	0.70
1:A:2791:ARG:HH12	1:A:2795:GLY:HA3	1.57	0.70
1:B:1038:LEU:O	1:B:1043:LYS:NZ	2.24	0.70
1:D:1038:LEU:O	1:D:1043:LYS:NZ	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4481:TRP:HA	1:A:4484:ILE:HG22	1.74	0.70
1:B:1129:GLY:HA3	1:B:1145:TRP:HB3	1.74	0.70
1:B:2979:ARG:HH22	1:B:2983:LEU:HD22	1.57	0.69
1:B:2723:LYS:HG2	1:B:2895:PHE:HZ	1.56	0.69
1:A:1129:GLY:HA3	1:A:1145:TRP:HB3	1.74	0.69
1:A:3042:ALA:HB1	1:A:3121:LEU:HD13	1.73	0.69
1:B:2488:LEU:HD21	1:B:2548:LEU:HD22	1.72	0.69
1:A:2979:ARG:HH22	1:A:2983:LEU:HD22	1.57	0.69
1:C:769:ARG:HG2	1:C:774:PRO:HA	1.74	0.69
1:C:2488:LEU:HD21	1:C:2548:LEU:HD22	1.72	0.69
1:D:3042:ALA:HB1	1:D:3121:LEU:HD13	1.73	0.69
2:G:22:THR:HG22	2:G:50:ARG:HG2	1.74	0.69
1:B:769:ARG:HG2	1:B:774:PRO:HA	1.74	0.69
1:A:894:VAL:HG12	1:A:897:LYS:HZ2	1.58	0.69
1:A:2723:LYS:HG2	1:A:2895:PHE:HZ	1.56	0.69
1:B:363:ILE:HD11	1:B:403:ILE:HD13	1.74	0.69
1:C:2723:LYS:HG2	1:C:2895:PHE:HZ	1.56	0.69
1:C:4481:TRP:HA	1:C:4484:ILE:HG22	1.74	0.69
1:C:894:VAL:HA	1:C:897:LYS:HG2	1.73	0.69
2:H:22:THR:HG22	2:H:50:ARG:HG2	1.74	0.69
1:D:4481:TRP:HA	1:D:4484:ILE:HG22	1.74	0.68
1:B:894:VAL:HA	1:B:897:LYS:HG2	1.73	0.68
1:C:2979:ARG:HH22	1:C:2983:LEU:HD22	1.57	0.68
1:D:363:ILE:HD11	1:D:403:ILE:HD13	1.74	0.68
2:E:22:THR:HG22	2:E:50:ARG:HG2	1.74	0.68
1:B:3650:GLU:OE1	1:B:3660:ARG:NH1	2.27	0.68
1:B:4481:TRP:HA	1:B:4484:ILE:HG22	1.74	0.68
1:C:1129:GLY:HA3	1:C:1145:TRP:HB3	1.74	0.68
1:B:2627:TRP:HB2	1:B:2630:PHE:HB2	1.76	0.68
1:C:363:ILE:HD11	1:C:403:ILE:HD13	1.74	0.68
1:D:2979:ARG:HH22	1:D:2983:LEU:HD22	1.57	0.68
1:D:3650:GLU:OE1	1:D:3660:ARG:NH1	2.27	0.68
1:A:3650:GLU:OE1	1:A:3660:ARG:NH1	2.27	0.68
1:B:363:ILE:HD13	1:B:372:LEU:HD23	1.75	0.68
1:C:3650:GLU:OE1	1:C:3660:ARG:NH1	2.27	0.68
1:D:1129:GLY:HA3	1:D:1145:TRP:HB3	1.74	0.68
1:D:3778:LEU:HD13	1:D:3854:PHE:HD1	1.59	0.68
2:F:22:THR:HG22	2:F:50:ARG:HG2	1.74	0.68
1:A:769:ARG:HG2	1:A:774:PRO:HA	1.74	0.68
1:D:1635:GLU:OE1	1:D:1637:ARG:NH1	2.28	0.67
1:C:2627:TRP:HB2	1:C:2630:PHE:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2882:LYS:HD2	1:D:2886:ARG:HH21	1.60	0.67
1:A:2627:TRP:HB2	1:A:2630:PHE:HB2	1.76	0.67
1:C:3778:LEU:HD13	1:C:3854:PHE:HD1	1.59	0.67
1:A:4694:LEU:HD11	1:D:4268:MET:HG3	1.76	0.67
1:C:363:ILE:HD13	1:C:372:LEU:HD23	1.75	0.67
1:C:1009:ARG:HB2	1:C:1013:ARG:HH12	1.60	0.67
1:A:1635:GLU:OE1	1:A:1637:ARG:NH1	2.28	0.67
1:D:1009:ARG:HB2	1:D:1013:ARG:HH12	1.60	0.67
1:B:1009:ARG:HB2	1:B:1013:ARG:HH12	1.60	0.67
1:B:1433:PHE:O	1:B:1500:ARG:NH2	2.28	0.67
1:B:3778:LEU:HD13	1:B:3854:PHE:HD1	1.59	0.67
1:D:363:ILE:HD13	1:D:372:LEU:HD23	1.75	0.67
1:A:363:ILE:HD13	1:A:372:LEU:HD23	1.75	0.67
1:B:1635:GLU:OE1	1:B:1637:ARG:NH1	2.28	0.67
1:A:2882:LYS:HD2	1:A:2886:ARG:HH21	1.60	0.66
1:C:1635:GLU:OE1	1:C:1637:ARG:NH1	2.28	0.66
1:C:2882:LYS:HD2	1:C:2886:ARG:HH21	1.60	0.66
1:D:1433:PHE:O	1:D:1500:ARG:NH2	2.28	0.66
1:A:1009:ARG:HB2	1:A:1013:ARG:HH12	1.60	0.66
1:A:3778:LEU:HD13	1:A:3854:PHE:HD1	1.59	0.66
1:C:1433:PHE:O	1:C:1500:ARG:NH2	2.28	0.66
1:B:2882:LYS:HD2	1:B:2886:ARG:HH21	1.60	0.66
1:C:904:TYR:HB2	1:C:918:LEU:HD22	1.77	0.66
1:C:4072:THR:HG22	1:C:4078:LEU:HB3	1.78	0.66
1:D:4072:THR:HG22	1:D:4078:LEU:HB3	1.78	0.66
1:A:4484:ILE:HA	1:D:4279:MET:HE2	1.76	0.66
1:B:4268:MET:HA	1:B:4271:VAL:HG22	1.77	0.66
1:A:2830:ASN:HB2	1:B:1434:PRO:O	1.96	0.66
1:A:1433:PHE:O	1:A:1500:ARG:NH2	2.28	0.66
1:A:125:TYR:O	1:A:414:ARG:NH1	2.29	0.66
1:B:2604:LYS:NZ	1:B:2660:GLU:OE1	2.26	0.66
1:D:904:TYR:HB2	1:D:918:LEU:HD22	1.77	0.66
1:D:2627:TRP:HB2	1:D:2630:PHE:HB2	1.76	0.66
1:A:1768:PHE:O	2:E:83:TYR:OH	2.13	0.65
1:B:2657:TYR:OH	1:B:2663:LYS:NZ	2.30	0.65
1:B:4072:THR:HG22	1:B:4078:LEU:HB3	1.78	0.65
1:C:2657:TYR:OH	1:C:2663:LYS:NZ	2.30	0.65
1:C:4268:MET:HA	1:C:4271:VAL:HG22	1.77	0.65
1:A:904:TYR:HB2	1:A:918:LEU:HD22	1.77	0.65
1:A:4072:THR:HG22	1:A:4078:LEU:HB3	1.78	0.65
1:D:2657:TYR:OH	1:D:2663:LYS:NZ	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1503:ASN:HB2	1:D:2824:ARG:HH22	1.60	0.65
1:A:2657:TYR:OH	1:A:2663:LYS:NZ	2.30	0.65
1:B:904:TYR:HB2	1:B:918:LEU:HD22	1.77	0.65
1:B:2860:LEU:HD11	1:B:2867:ASN:HA	1.79	0.65
1:C:2860:LEU:HD11	1:C:2867:ASN:HA	1.79	0.65
1:D:125:TYR:O	1:D:414:ARG:NH1	2.29	0.65
1:C:3184:TYR:O	1:C:3192:ARG:NH2	2.30	0.65
1:D:963:LYS:HZ1	1:D:977:LYS:HD3	1.62	0.65
1:D:3025:ASP:O	1:D:3028:SER:OG	2.14	0.65
1:A:4268:MET:HA	1:A:4271:VAL:HG22	1.77	0.65
1:D:1432:ILE:HG22	1:D:1500:ARG:HH21	1.62	0.65
1:B:1432:ILE:HG22	1:B:1500:ARG:HH21	1.62	0.65
2:H:4:GLU:OE1	2:H:4:GLU:N	2.30	0.65
1:B:3179:ASN:O	1:B:3185:ASN:ND2	2.30	0.65
1:C:125:TYR:O	1:C:414:ARG:NH1	2.29	0.65
1:D:3184:TYR:O	1:D:3192:ARG:NH2	2.30	0.65
1:A:2232:PRO:HG3	1:A:2382:ILE:HD11	1.79	0.64
1:A:3184:TYR:O	1:A:3192:ARG:NH2	2.30	0.64
1:C:1911:GLN:OE1	1:C:2090:ARG:NH1	2.31	0.64
1:D:2860:LEU:HD11	1:D:2867:ASN:HA	1.78	0.64
1:B:3166:PHE:HE2	1:B:3168:VAL:HB	1.62	0.64
1:C:3166:PHE:HE2	1:C:3168:VAL:HB	1.62	0.64
1:C:4690:LYS:HG3	1:C:4692:SER:H	1.63	0.64
1:D:1911:GLN:OE1	1:D:2090:ARG:NH1	2.31	0.64
1:A:3166:PHE:HE2	1:A:3168:VAL:HB	1.62	0.64
1:B:2773:TRP:HB3	1:B:2774:PRO:HD3	1.79	0.64
1:C:2773:TRP:HB3	1:C:2774:PRO:HD3	1.79	0.64
1:C:3179:ASN:O	1:C:3185:ASN:ND2	2.30	0.64
1:A:1432:ILE:HG22	1:A:1500:ARG:HH21	1.62	0.64
1:A:1911:GLN:OE1	1:A:2090:ARG:NH1	2.31	0.64
1:A:2860:LEU:HD11	1:A:2867:ASN:HA	1.79	0.64
1:B:125:TYR:O	1:B:414:ARG:NH1	2.29	0.64
1:D:3227:ARG:HD3	1:D:3229:THR:H	1.63	0.64
1:D:4268:MET:HA	1:D:4271:VAL:HG22	1.77	0.64
1:A:3179:ASN:O	1:A:3185:ASN:ND2	2.30	0.64
1:B:1911:GLN:OE1	1:B:2090:ARG:NH1	2.31	0.64
1:C:1432:ILE:HG22	1:C:1500:ARG:HH21	1.62	0.64
2:G:4:GLU:OE1	2:G:4:GLU:N	2.30	0.64
1:B:963:LYS:HZ1	1:B:977:LYS:HD3	1.63	0.64
1:B:4690:LYS:HG3	1:B:4692:SER:H	1.63	0.64
1:C:2232:PRO:HG3	1:C:2382:ILE:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3227:ARG:HD3	1:A:3229:THR:H	1.63	0.63
1:A:4262:LYS:HG3	1:B:4698:LEU:HD13	1.78	0.63
1:D:2773:TRP:HB3	1:D:2774:PRO:HD3	1.79	0.63
1:B:3901:GLN:O	1:B:3905:ASN:ND2	2.28	0.63
1:C:4268:MET:HG3	1:D:4694:LEU:HD11	1.81	0.63
1:D:3179:ASN:O	1:D:3185:ASN:ND2	2.30	0.63
1:D:3166:PHE:HE2	1:D:3168:VAL:HB	1.62	0.63
2:F:4:GLU:OE1	2:F:4:GLU:N	2.29	0.63
1:C:3227:ARG:HD3	1:C:3229:THR:H	1.63	0.63
1:C:3127:GLN:O	1:C:3131:TYR:HD2	1.82	0.63
1:D:2232:PRO:HG3	1:D:2382:ILE:HD11	1.79	0.63
1:A:3127:GLN:O	1:A:3131:TYR:HD2	1.82	0.63
1:B:3127:GLN:O	1:B:3131:TYR:HD2	1.82	0.63
1:D:4690:LYS:HG3	1:D:4692:SER:H	1.63	0.63
2:G:26:HIS:CD2	2:G:105:LEU:HD11	2.34	0.63
1:A:2773:TRP:HB3	1:A:2774:PRO:HD3	1.79	0.63
1:A:4690:LYS:HG3	1:A:4692:SER:H	1.63	0.63
2:E:26:HIS:CD2	2:E:105:LEU:HD11	2.34	0.63
1:B:2232:PRO:HG3	1:B:2382:ILE:HD11	1.79	0.63
1:B:4279:MET:HE2	1:C:4484:ILE:HA	1.80	0.63
1:C:2604:LYS:NZ	1:C:2660:GLU:OE1	2.26	0.63
1:A:963:LYS:HZ1	1:A:977:LYS:HD3	1.63	0.63
1:D:3311:LYS:HB2	1:D:3314:LEU:HD13	1.80	0.63
1:A:2593:VAL:HG12	1:A:2644:LEU:HB2	1.81	0.62
1:B:3184:TYR:O	1:B:3192:ARG:NH2	2.30	0.62
1:D:3127:GLN:O	1:D:3131:TYR:HD2	1.82	0.62
1:D:2273:GLY:O	1:D:2336:ARG:NH2	2.32	0.62
2:F:26:HIS:CD2	2:F:105:LEU:HD11	2.34	0.62
1:A:2273:GLY:O	1:A:2336:ARG:NH2	2.32	0.62
1:A:4268:MET:HG3	1:B:4694:LEU:HD11	1.81	0.62
2:E:4:GLU:N	2:E:4:GLU:OE1	2.29	0.62
1:B:3134:LEU:HB3	1:B:3162:PHE:CE2	2.35	0.62
1:C:872:ILE:O	1:C:941:LYS:NZ	2.32	0.62
1:A:872:ILE:O	1:A:941:LYS:NZ	2.32	0.62
1:A:2586:GLN:NE2	1:A:2636:GLU:OE1	2.33	0.62
1:C:3025:ASP:O	1:C:3028:SER:OG	2.14	0.62
1:D:2593:VAL:HG12	1:D:2644:LEU:HB2	1.81	0.62
1:D:3325:LYS:HE3	1:D:3328:LYS:HD2	1.81	0.62
1:A:3134:LEU:HB3	1:A:3162:PHE:CE2	2.35	0.62
1:A:3325:LYS:HE3	1:A:3328:LYS:HD2	1.81	0.62
1:B:3311:LYS:HB2	1:B:3314:LEU:HD13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2824:ARG:HH22	1:C:1503:ASN:HB2	1.65	0.62
1:B:3325:LYS:HE3	1:B:3328:LYS:HD2	1.81	0.62
1:C:3311:LYS:HB2	1:C:3314:LEU:HD13	1.80	0.62
1:A:3311:LYS:HB2	1:A:3314:LEU:HD13	1.80	0.62
1:B:3025:ASP:O	1:B:3028:SER:OG	2.14	0.62
2:H:26:HIS:CD2	2:H:105:LEU:HD11	2.34	0.62
1:B:2728:SER:HA	1:B:2731:LYS:HZ2	1.64	0.62
1:C:3134:LEU:HB3	1:C:3162:PHE:CE2	2.35	0.62
1:D:872:ILE:O	1:D:941:LYS:NZ	2.32	0.62
1:C:2593:VAL:HG12	1:C:2644:LEU:HB2	1.81	0.62
1:D:3043:ARG:NE	1:D:3120:ASP:OD2	2.27	0.62
1:D:3134:LEU:HB3	1:D:3162:PHE:CE2	2.35	0.62
1:B:872:ILE:O	1:B:941:LYS:NZ	2.32	0.61
1:B:3227:ARG:HD3	1:B:3229:THR:H	1.63	0.61
1:C:3325:LYS:HE3	1:C:3328:LYS:HD2	1.81	0.61
1:C:2273:GLY:O	1:C:2336:ARG:NH2	2.32	0.61
1:B:3016:ARG:HG2	1:B:3017:HIS:CD2	2.36	0.61
1:D:3016:ARG:HG2	1:D:3017:HIS:CD2	2.36	0.61
1:D:3901:GLN:O	1:D:3905:ASN:ND2	2.28	0.61
1:B:895:MET:SD	1:B:971:GLN:NE2	2.74	0.61
1:B:2273:GLY:O	1:B:2336:ARG:NH2	2.32	0.61
1:C:3901:GLN:O	1:C:3905:ASN:ND2	2.28	0.61
1:A:895:MET:SD	1:A:971:GLN:NE2	2.74	0.61
1:A:4665:ARG:HH22	1:A:4669:LEU:HD22	1.66	0.61
1:D:4187:GLU:OE2	1:D:4947:ARG:NH2	2.33	0.61
1:A:3016:ARG:HG2	1:A:3017:HIS:CD2	2.36	0.61
1:B:4665:ARG:HH22	1:B:4669:LEU:HD22	1.66	0.61
1:A:2824:ARG:HH22	1:B:1503:ASN:HB2	1.65	0.61
1:B:4609:LYS:HD2	1:B:4615:LEU:HD22	1.83	0.61
1:C:895:MET:SD	1:C:971:GLN:NE2	2.74	0.61
1:C:2586:GLN:NE2	1:C:2636:GLU:OE1	2.33	0.61
1:B:4187:GLU:OE2	1:B:4947:ARG:NH2	2.33	0.61
1:D:4609:LYS:HD2	1:D:4615:LEU:HD22	1.83	0.61
1:A:4609:LYS:HD2	1:A:4615:LEU:HD22	1.83	0.61
1:C:3016:ARG:HG2	1:C:3017:HIS:CD2	2.36	0.61
1:B:126:SER:HA	1:B:414:ARG:HH12	1.67	0.60
1:B:4010:VAL:HG11	1:B:4118:PHE:HZ	1.66	0.60
1:B:4874:ARG:NH1	1:C:4868:ASP:OD1	2.34	0.60
1:D:2831:VAL:HG12	1:D:2894:LYS:HD2	1.83	0.60
1:B:1910:LEU:HD13	1:B:2062:ILE:HG12	1.83	0.60
1:B:2593:VAL:HG12	1:B:2644:LEU:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4010:VAL:HG11	1:C:4118:PHE:HZ	1.66	0.60
1:D:3313:GLN:HA	1:D:3316:LYS:NZ	2.17	0.60
1:A:3313:GLN:HA	1:A:3316:LYS:NZ	2.17	0.60
1:B:2831:VAL:HG12	1:B:2894:LYS:HD2	1.84	0.60
1:D:895:MET:SD	1:D:971:GLN:NE2	2.74	0.60
1:C:4187:GLU:OE2	1:C:4947:ARG:NH2	2.33	0.60
1:C:1239:PHE:O	1:C:1807:ARG:NH2	2.35	0.60
1:C:4665:ARG:HH22	1:C:4669:LEU:HD22	1.66	0.60
1:D:2586:GLN:NE2	1:D:2636:GLU:OE1	2.33	0.60
1:D:3697:LYS:HA	1:D:3700:HIS:CD2	2.37	0.60
1:A:3059:ALA:O	1:A:3063:ASN:ND2	2.35	0.60
1:A:4010:VAL:HG11	1:A:4118:PHE:HZ	1.66	0.60
1:C:3137:LEU:HB2	1:C:3159:LEU:HD13	1.84	0.60
1:C:3313:GLN:HA	1:C:3316:LYS:NZ	2.17	0.60
1:D:1239:PHE:O	1:D:1807:ARG:NH2	2.35	0.60
1:A:126:SER:HA	1:A:414:ARG:HH12	1.66	0.60
1:C:2831:VAL:HG12	1:C:2894:LYS:HD2	1.84	0.60
1:C:2202:TYR:O	1:C:2206:ILE:HG12	2.02	0.60
1:C:3697:LYS:HA	1:C:3700:HIS:CD2	2.36	0.60
1:D:2296:GLU:HG3	1:D:2390:THR:HG22	1.83	0.60
1:A:2831:VAL:HG12	1:A:2894:LYS:HD2	1.84	0.60
1:A:3697:LYS:HA	1:A:3700:HIS:CD2	2.37	0.60
1:C:2890:GLN:O	1:C:2894:LYS:HG2	2.02	0.60
1:C:4609:LYS:HD2	1:C:4615:LEU:HD22	1.83	0.60
1:A:2202:TYR:O	1:A:2206:ILE:HG12	2.02	0.59
1:A:4187:GLU:OE2	1:A:4947:ARG:NH2	2.33	0.59
1:B:2586:GLN:NE2	1:B:2636:GLU:OE1	2.33	0.59
1:B:3313:GLN:HA	1:B:3316:LYS:NZ	2.17	0.59
1:C:126:SER:HA	1:C:414:ARG:HH12	1.67	0.59
1:D:2604:LYS:NZ	1:D:2660:GLU:OE1	2.26	0.59
1:A:1054:VAL:HA	1:A:1057:LEU:HD12	1.84	0.59
1:A:3137:LEU:HB2	1:A:3159:LEU:HD13	1.84	0.59
1:B:2202:TYR:O	1:B:2206:ILE:HG12	2.02	0.59
1:C:1910:LEU:HD13	1:C:2062:ILE:HG12	1.83	0.59
1:D:2202:TYR:O	1:D:2206:ILE:HG12	2.02	0.59
1:A:1239:PHE:O	1:A:1807:ARG:NH2	2.35	0.59
1:B:2890:GLN:O	1:B:2894:LYS:HG2	2.02	0.59
1:B:3697:LYS:HA	1:B:3700:HIS:CD2	2.36	0.59
1:B:4268:MET:HG3	1:C:4694:LEU:HD11	1.83	0.59
1:D:4665:ARG:HH22	1:D:4669:LEU:HD22	1.66	0.59
1:A:2296:GLU:HG3	1:A:2390:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:892:LEU:HD21	1:C:980:PRO:HD3	1.85	0.59
1:D:561:ARG:HB3	1:D:564:ARG:HD2	1.84	0.59
1:D:2436:ILE:HA	1:D:2465:LYS:HD3	1.85	0.59
1:B:3152:ARG:NH2	1:B:3236:GLU:HB3	2.16	0.59
1:C:949:HIS:ND1	1:C:1065:GLU:OE2	2.34	0.59
1:C:3288:LEU:HD11	1:C:3328:LYS:HD3	1.85	0.59
1:C:4010:VAL:HG11	1:C:4118:PHE:CZ	2.38	0.59
1:D:2884:LYS:HD2	1:D:2884:LYS:C	2.23	0.59
1:A:2436:ILE:HA	1:A:2465:LYS:HD3	1.85	0.59
1:A:2937:HIS:HB2	1:A:3014:LEU:HD21	1.85	0.59
1:B:1239:PHE:O	1:B:1807:ARG:NH2	2.35	0.59
1:C:3280:ILE:O	1:C:3284:ILE:HG12	2.03	0.59
1:A:188:SER:HB2	1:A:190:ARG:HH11	1.67	0.59
1:B:188:SER:HB2	1:B:190:ARG:HH11	1.67	0.59
1:B:561:ARG:HB3	1:B:564:ARG:HD2	1.84	0.59
1:B:2884:LYS:HD2	1:B:2884:LYS:C	2.23	0.59
1:B:3043:ARG:NE	1:B:3120:ASP:OD2	2.27	0.59
1:B:3175:LEU:HD12	1:B:3178:HIS:HD2	1.68	0.59
1:D:892:LEU:HD21	1:D:980:PRO:HD3	1.85	0.59
1:D:4010:VAL:HG11	1:D:4118:PHE:HZ	1.66	0.59
1:A:1910:LEU:HD13	1:A:2062:ILE:HG12	1.83	0.59
1:B:2436:ILE:HA	1:B:2465:LYS:HD3	1.85	0.59
1:B:3137:LEU:HB2	1:B:3159:LEU:HD13	1.84	0.59
1:B:3280:ILE:O	1:B:3284:ILE:HG12	2.03	0.59
1:C:2296:GLU:HG3	1:C:2390:THR:HG22	1.83	0.59
1:D:591:GLU:HG3	1:D:631:LEU:HD22	1.85	0.59
1:D:1910:LEU:HD13	1:D:2062:ILE:HG12	1.83	0.59
1:A:591:GLU:HG3	1:A:631:LEU:HD22	1.85	0.59
1:A:4237:SER:N	1:A:4240:THR:OG1	2.36	0.59
1:B:892:LEU:HD21	1:B:980:PRO:HD3	1.85	0.59
1:B:4010:VAL:HG11	1:B:4118:PHE:CZ	2.38	0.59
1:C:963:LYS:HZ1	1:C:977:LYS:HD3	1.67	0.59
1:D:188:SER:HB2	1:D:190:ARG:HH11	1.67	0.59
1:A:561:ARG:HB3	1:A:564:ARG:HD2	1.84	0.59
1:A:892:LEU:HD21	1:A:980:PRO:HD3	1.85	0.59
1:A:1825:PHE:CE1	1:A:1842:ILE:HG12	2.38	0.59
1:A:2604:LYS:NZ	1:A:2660:GLU:OE1	2.26	0.59
1:A:2890:GLN:O	1:A:2894:LYS:HG2	2.02	0.59
1:B:1009:ARG:HB2	1:B:1013:ARG:NH1	2.18	0.59
1:B:1100:ARG:HB3	1:B:1236:TYR:HA	1.85	0.59
1:B:2296:GLU:HG3	1:B:2390:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1009:ARG:HB2	1:D:1013:ARG:NH1	2.18	0.59
1:D:4271:VAL:HB	1:D:4274:MET:SD	2.43	0.59
1:A:15:ARG:NH2	1:A:110:HIS:O	2.36	0.58
1:B:4196:THR:HA	1:B:4199:GLU:HG2	1.85	0.58
1:C:3175:LEU:HD12	1:C:3178:HIS:CD2	2.38	0.58
1:D:2890:GLN:O	1:D:2894:LYS:HG2	2.02	0.58
1:D:3137:LEU:HB2	1:D:3159:LEU:HD13	1.84	0.58
1:D:4010:VAL:HG11	1:D:4118:PHE:CZ	2.38	0.58
1:B:1825:PHE:CE1	1:B:1842:ILE:HG12	2.38	0.58
1:C:1100:ARG:HB3	1:C:1236:TYR:HA	1.85	0.58
1:D:983:LEU:O	1:D:1055:ARG:NH2	2.37	0.58
1:D:1825:PHE:CE1	1:D:1842:ILE:HG12	2.38	0.58
1:D:3280:ILE:O	1:D:3284:ILE:HG12	2.03	0.58
1:B:591:GLU:HG3	1:B:631:LEU:HD22	1.85	0.58
1:C:561:ARG:HB3	1:C:564:ARG:HD2	1.84	0.58
1:C:591:GLU:HG3	1:C:631:LEU:HD22	1.85	0.58
1:C:983:LEU:O	1:C:1055:ARG:NH2	2.37	0.58
1:C:1825:PHE:CE1	1:C:1842:ILE:HG12	2.38	0.58
1:C:2436:ILE:HA	1:C:2465:LYS:HD3	1.85	0.58
1:C:4196:THR:HA	1:C:4199:GLU:HG2	1.85	0.58
1:C:4271:VAL:HB	1:C:4274:MET:SD	2.43	0.58
1:D:3174:HIS:ND1	1:D:3175:LEU:HD23	2.18	0.58
1:A:2884:LYS:HD2	1:A:2884:LYS:C	2.23	0.58
1:D:114:LEU:HB2	1:D:117:HIS:CE1	2.39	0.58
1:D:962:LYS:HZ1	1:D:982:ASP:H	1.51	0.58
1:D:1100:ARG:HB3	1:D:1236:TYR:HA	1.85	0.58
1:D:3059:ALA:O	1:D:3063:ASN:ND2	2.35	0.58
1:A:3152:ARG:NH2	1:A:3236:GLU:HB3	2.16	0.58
1:A:3175:LEU:HD12	1:A:3178:HIS:CD2	2.38	0.58
1:A:4689:LYS:HZ3	1:A:4696:ALA:HB2	1.67	0.58
1:B:15:ARG:NH2	1:B:110:HIS:O	2.36	0.58
1:B:3174:HIS:ND1	1:B:3175:LEU:HD23	2.19	0.58
1:B:3288:LEU:HD11	1:B:3328:LYS:HD3	1.85	0.58
1:D:2791:ARG:HH12	1:D:2795:GLY:CA	2.17	0.58
1:B:114:LEU:HB2	1:B:117:HIS:CE1	2.39	0.58
1:C:114:LEU:HB2	1:C:117:HIS:CE1	2.39	0.58
1:C:3174:HIS:ND1	1:C:3175:LEU:HD23	2.19	0.58
1:D:126:SER:HA	1:D:414:ARG:HH12	1.66	0.58
1:D:889:ILE:O	1:D:893:TRP:HB2	2.04	0.58
1:D:3288:LEU:HD11	1:D:3328:LYS:HD3	1.85	0.58
1:A:114:LEU:HB2	1:A:117:HIS:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3280:ILE:O	1:A:3284:ILE:HG12	2.03	0.58
1:B:3175:LEU:HD12	1:B:3178:HIS:CD2	2.38	0.58
1:C:2824:ARG:HH22	1:D:1503:ASN:HB2	1.66	0.58
1:D:15:ARG:NH2	1:D:110:HIS:O	2.36	0.58
1:D:1054:VAL:HA	1:D:1057:LEU:HD12	1.84	0.58
1:C:188:SER:HB2	1:C:190:ARG:HH11	1.68	0.58
1:C:1009:ARG:HB2	1:C:1013:ARG:NH1	2.18	0.58
1:C:1054:VAL:HA	1:C:1057:LEU:HD12	1.84	0.58
1:C:2884:LYS:HD2	1:C:2884:LYS:C	2.23	0.58
1:C:2937:HIS:HB2	1:C:3014:LEU:HD21	1.85	0.58
1:D:3175:LEU:HD12	1:D:3178:HIS:HD2	1.68	0.58
1:A:3174:HIS:ND1	1:A:3175:LEU:HD23	2.19	0.58
1:A:3901:GLN:O	1:A:3905:ASN:ND2	2.28	0.58
1:B:983:LEU:O	1:B:1055:ARG:NH2	2.37	0.58
1:B:2937:HIS:HB2	1:B:3014:LEU:HD21	1.85	0.58
1:B:4106:SER:HB2	1:B:4119:LEU:HD11	1.86	0.58
1:B:4237:SER:N	1:B:4240:THR:OG1	2.36	0.58
1:B:4271:VAL:HB	1:B:4274:MET:SD	2.43	0.58
1:C:15:ARG:NH2	1:C:110:HIS:O	2.36	0.58
1:C:3901:GLN:OE1	1:C:3904:ARG:NH1	2.37	0.58
1:D:2937:HIS:HB2	1:D:3014:LEU:HD21	1.85	0.58
1:D:4196:THR:HA	1:D:4199:GLU:HG2	1.85	0.58
1:A:3175:LEU:HD12	1:A:3178:HIS:HD2	1.68	0.58
1:A:4106:SER:HB2	1:A:4119:LEU:HD11	1.86	0.58
1:B:2788:ARG:NH1	1:B:2905:ARG:O	2.37	0.58
1:B:3059:ALA:O	1:B:3063:ASN:ND2	2.35	0.58
1:D:26:ALA:HB3	1:D:33:GLN:HB3	1.86	0.58
1:D:2999:LYS:O	1:D:3002:GLU:HG3	2.04	0.58
1:D:3175:LEU:HD12	1:D:3178:HIS:CD2	2.38	0.58
1:A:1100:ARG:HB3	1:A:1236:TYR:HA	1.85	0.57
1:C:515:ALA:HB2	1:C:523:GLY:HA3	1.86	0.57
1:C:3059:ALA:O	1:C:3063:ASN:ND2	2.35	0.57
1:D:2788:ARG:NH1	1:D:2905:ARG:O	2.37	0.57
1:D:3045:VAL:O	1:D:3054:LYS:NZ	2.36	0.57
1:A:2791:ARG:HH12	1:A:2795:GLY:CA	2.17	0.57
1:A:2999:LYS:O	1:A:3002:GLU:HG3	2.04	0.57
1:A:3288:LEU:HD11	1:A:3328:LYS:HD3	1.85	0.57
1:B:1286:THR:OG1	1:B:1550:PRO:O	2.19	0.57
1:C:2788:ARG:NH1	1:C:2905:ARG:O	2.37	0.57
1:D:515:ALA:HB2	1:D:523:GLY:HA3	1.86	0.57
1:D:3152:ARG:NH2	1:D:3236:GLU:HB3	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2788:ARG:NH1	1:A:2905:ARG:O	2.37	0.57
1:C:889:ILE:O	1:C:893:TRP:HB2	2.04	0.57
1:C:2791:ARG:HH12	1:C:2795:GLY:CA	2.17	0.57
1:C:3175:LEU:HD12	1:C:3178:HIS:HD2	1.68	0.57
1:D:2728:SER:HA	1:D:2731:LYS:HZ2	1.69	0.57
1:D:3187:LYS:NZ	1:D:3191:GLU:HB3	2.19	0.57
1:A:983:LEU:O	1:A:1055:ARG:NH2	2.37	0.57
1:A:4010:VAL:HG11	1:A:4118:PHE:CZ	2.38	0.57
1:B:2658:GLU:HB3	1:B:2661:LEU:HB3	1.87	0.57
1:B:2999:LYS:O	1:B:3002:GLU:HG3	2.04	0.57
1:C:26:ALA:HB3	1:C:33:GLN:HB3	1.86	0.57
1:D:1521:ILE:HG22	1:D:1526:GLU:HG3	1.86	0.57
1:A:4196:THR:HA	1:A:4199:GLU:HG2	1.85	0.57
1:A:4271:VAL:HB	1:A:4274:MET:SD	2.43	0.57
1:D:2658:GLU:HB3	1:D:2661:LEU:HB3	1.87	0.57
1:D:2975:PHE:HB3	1:D:3039:THR:HG21	1.86	0.57
1:D:3901:GLN:OE1	1:D:3904:ARG:NH1	2.37	0.57
1:A:515:ALA:HB2	1:A:523:GLY:HA3	1.86	0.57
1:A:1521:ILE:HG22	1:A:1526:GLU:HG3	1.87	0.57
1:B:3901:GLN:OE1	1:B:3904:ARG:NH1	2.37	0.57
1:D:3160:ALA:N	1:D:3241:MET:HE1	2.20	0.57
1:D:3817:LEU:HD22	1:D:3819:MET:HG3	1.87	0.57
1:A:1009:ARG:HB2	1:A:1013:ARG:NH1	2.18	0.57
1:A:3200:ASN:HB2	1:A:3203:ASP:HB2	1.87	0.57
1:B:1054:VAL:HA	1:B:1057:LEU:HD12	1.84	0.57
1:B:1521:ILE:HG22	1:B:1526:GLU:HG3	1.87	0.57
1:C:2999:LYS:O	1:C:3002:GLU:HG3	2.04	0.57
1:C:3200:ASN:HB2	1:C:3203:ASP:HB2	1.87	0.57
1:D:1283:LEU:HB2	1:D:1555:PHE:HB2	1.87	0.57
1:A:3901:GLN:OE1	1:A:3904:ARG:NH1	2.37	0.57
1:A:4049:HIS:CD2	1:A:4067:LEU:HD11	2.40	0.57
1:B:555:LEU:HD21	1:B:578:VAL:HG11	1.86	0.57
1:B:889:ILE:O	1:B:893:TRP:HB2	2.04	0.57
1:B:3152:ARG:NH2	1:B:3233:HIS:O	2.37	0.57
1:B:3200:ASN:HB2	1:B:3203:ASP:HB2	1.87	0.57
1:C:2658:GLU:HB3	1:C:2661:LEU:HB3	1.87	0.57
1:C:3152:ARG:NH2	1:C:3236:GLU:HB3	2.16	0.57
1:C:3817:LEU:HD22	1:C:3819:MET:HG3	1.87	0.57
1:C:4049:HIS:CD2	1:C:4067:LEU:HD11	2.40	0.57
1:D:555:LEU:HD21	1:D:578:VAL:HG11	1.86	0.57
1:B:515:ALA:HB2	1:B:523:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4093:ASP:OD1	1:C:4094:ILE:N	2.38	0.57
1:A:3045:VAL:O	1:A:3054:LYS:NZ	2.36	0.57
1:B:4049:HIS:CD2	1:B:4067:LEU:HD11	2.40	0.57
1:C:1521:ILE:HG22	1:C:1526:GLU:HG3	1.87	0.57
1:C:3187:LYS:NZ	1:C:3191:GLU:HB3	2.19	0.57
1:C:4106:SER:HB2	1:C:4119:LEU:HD11	1.86	0.57
1:D:2496:LEU:HD23	1:D:2520:LEU:HD13	1.87	0.57
1:D:3200:ASN:HB2	1:D:3203:ASP:HB2	1.87	0.57
1:D:4237:SER:N	1:D:4240:THR:OG1	2.36	0.57
1:A:889:ILE:O	1:A:893:TRP:HB2	2.04	0.56
1:B:1283:LEU:HB2	1:B:1555:PHE:HB2	1.87	0.56
1:A:555:LEU:HD21	1:A:578:VAL:HG11	1.86	0.56
1:A:2728:SER:HA	1:A:2731:LYS:HZ2	1.70	0.56
1:A:3890:TRP:HB3	1:B:76:ARG:HG2	1.86	0.56
1:B:1844:GLN:NE2	1:B:1853:GLU:OE1	2.37	0.56
1:B:2791:ARG:HH12	1:B:2795:GLY:CA	2.17	0.56
1:C:555:LEU:HD21	1:C:578:VAL:HG11	1.86	0.56
1:C:3035:ILE:O	1:C:3039:THR:HG23	2.05	0.56
1:C:3043:ARG:NE	1:C:3120:ASP:OD2	2.27	0.56
1:C:4237:SER:N	1:C:4240:THR:OG1	2.36	0.56
1:D:555:LEU:HD12	1:D:588:ILE:HD11	1.87	0.56
1:D:4084:VAL:O	1:D:4088:HIS:CB	2.54	0.56
1:A:3152:ARG:NH2	1:A:3233:HIS:O	2.37	0.56
1:A:3270:SER:O	1:A:3274:ASN:ND2	2.39	0.56
1:A:4084:VAL:O	1:A:4088:HIS:CB	2.54	0.56
1:A:4093:ASP:OD1	1:A:4094:ILE:N	2.38	0.56
1:B:2057:THR:HB	1:B:2060:GLN:HG3	1.86	0.56
1:B:2975:PHE:HB3	1:B:3039:THR:HG21	1.86	0.56
1:B:3172:GLU:OE1	1:B:3266:THR:OG1	2.22	0.56
1:B:3817:LEU:HD22	1:B:3819:MET:HG3	1.87	0.56
1:C:3227:ARG:NH1	1:C:3228:TYR:HB3	2.20	0.56
1:C:4177:VAL:HG11	1:C:4880:VAL:HA	1.87	0.56
1:D:1014:GLN:O	1:D:1027:ARG:NH2	2.39	0.56
1:D:3227:ARG:NH1	1:D:3228:TYR:HB3	2.20	0.56
1:D:4106:SER:HB2	1:D:4119:LEU:HD11	1.86	0.56
1:B:3122:ILE:HG13	1:B:3126:VAL:HG23	1.88	0.56
1:B:4177:VAL:HG11	1:B:4880:VAL:HA	1.87	0.56
1:C:1283:LEU:HB2	1:C:1555:PHE:HB2	1.87	0.56
1:C:2496:LEU:HD23	1:C:2520:LEU:HD13	1.87	0.56
1:C:2975:PHE:HB3	1:C:3039:THR:HG21	1.86	0.56
1:D:3035:ILE:O	1:D:3039:THR:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4045:LYS:HD3	1:A:4072:THR:HG21	1.88	0.56
1:B:26:ALA:HB3	1:B:33:GLN:HB3	1.86	0.56
1:B:3270:SER:O	1:B:3274:ASN:ND2	2.39	0.56
1:B:4093:ASP:OD1	1:B:4094:ILE:N	2.38	0.56
1:D:891:GLU:HG3	1:D:976:TYR:CD2	2.41	0.56
1:A:1286:THR:OG1	1:A:1550:PRO:O	2.19	0.56
1:A:1788:LYS:HD2	1:A:1833:ILE:HG22	1.87	0.56
1:A:2658:GLU:HB3	1:A:2661:LEU:HB3	1.87	0.56
1:B:1014:GLN:O	1:B:1027:ARG:NH2	2.39	0.56
1:B:4045:LYS:HD3	1:B:4072:THR:HG21	1.88	0.56
1:B:4084:VAL:O	1:B:4088:HIS:CB	2.54	0.56
1:D:2999:LYS:O	1:D:3003:MET:HG2	2.06	0.56
1:D:3323:MET:HB3	1:D:3327:LYS:NZ	2.21	0.56
1:D:4045:LYS:HD3	1:D:4072:THR:HG21	1.88	0.56
1:A:26:ALA:HB3	1:A:33:GLN:HB3	1.86	0.56
1:A:3160:ALA:N	1:A:3241:MET:HE1	2.20	0.56
1:A:3817:LEU:HD22	1:A:3819:MET:HG3	1.87	0.56
1:B:894:VAL:HG12	1:B:897:LYS:NZ	2.21	0.56
1:C:1559:ARG:HD2	1:C:1565:PRO:HD3	1.88	0.56
1:C:2999:LYS:O	1:C:3003:MET:HG2	2.06	0.56
1:C:3270:SER:O	1:C:3274:ASN:ND2	2.39	0.56
1:D:2137:GLU:OE1	1:D:2137:GLU:N	2.32	0.56
1:D:3270:SER:O	1:D:3274:ASN:ND2	2.39	0.56
1:A:1014:GLN:O	1:A:1027:ARG:NH2	2.39	0.56
1:B:555:LEU:HD12	1:B:588:ILE:HD11	1.87	0.56
1:B:1006:VAL:O	1:B:1009:ARG:HG2	2.06	0.56
1:B:3323:MET:HB3	1:B:3327:LYS:NZ	2.21	0.56
1:C:891:GLU:HG3	1:C:976:TYR:CD2	2.41	0.56
1:C:2057:THR:HB	1:C:2060:GLN:HG3	1.86	0.56
1:C:3045:VAL:O	1:C:3054:LYS:NZ	2.36	0.56
1:D:1788:LYS:HD2	1:D:1833:ILE:HG22	1.87	0.56
1:D:4093:ASP:OD1	1:D:4094:ILE:N	2.38	0.56
1:A:4640:PHE:CD2	1:A:4641:PRO:HD3	2.41	0.56
1:B:1559:ARG:HD2	1:B:1565:PRO:HD3	1.88	0.56
1:B:3187:LYS:NZ	1:B:3191:GLU:HB3	2.19	0.56
1:B:3238:ILE:HA	1:B:3241:MET:HB2	1.88	0.56
1:C:555:LEU:HD12	1:C:588:ILE:HD11	1.87	0.56
1:C:3160:ALA:N	1:C:3241:MET:HE1	2.20	0.56
1:C:3293:GLY:HA3	1:C:3295:TRP:CZ3	2.41	0.56
1:A:894:VAL:HG12	1:A:897:LYS:NZ	2.21	0.56
1:A:4177:VAL:HG11	1:A:4880:VAL:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3152:ARG:NH2	1:D:3233:HIS:O	2.37	0.56
1:D:4177:VAL:HG11	1:D:4880:VAL:HA	1.87	0.56
1:A:3187:LYS:NZ	1:A:3191:GLU:HB3	2.20	0.55
1:A:4144:ARG:HB3	1:A:4961:GLN:HE22	1.72	0.55
1:B:2496:LEU:HD23	1:B:2520:LEU:HD13	1.87	0.55
1:B:4640:PHE:CD2	1:B:4641:PRO:HD3	2.41	0.55
1:C:1849:SER:O	1:C:2054:LYS:NZ	2.39	0.55
1:C:4045:LYS:HD3	1:C:4072:THR:HG21	1.88	0.55
1:D:4049:HIS:CD2	1:D:4067:LEU:HD11	2.40	0.55
1:A:2057:THR:HB	1:A:2060:GLN:HG3	1.86	0.55
1:A:3227:ARG:NH1	1:A:3228:TYR:HB3	2.20	0.55
1:A:3323:MET:HB3	1:A:3327:LYS:NZ	2.21	0.55
1:C:3238:ILE:HA	1:C:3241:MET:HB2	1.88	0.55
1:C:3323:MET:HB3	1:C:3327:LYS:NZ	2.21	0.55
1:C:4640:PHE:CD2	1:C:4641:PRO:HD3	2.41	0.55
1:D:2057:THR:HB	1:D:2060:GLN:HG3	1.86	0.55
1:A:1006:VAL:O	1:A:1009:ARG:HG2	2.06	0.55
1:C:1788:LYS:HD2	1:C:1833:ILE:HG22	1.87	0.55
1:C:3152:ARG:NH2	1:C:3233:HIS:O	2.37	0.55
1:C:4084:VAL:O	1:C:4088:HIS:CB	2.54	0.55
1:D:3293:GLY:HA3	1:D:3295:TRP:CZ3	2.41	0.55
2:H:24:VAL:HG12	2:H:105:LEU:HD12	1.89	0.55
1:A:891:GLU:HG3	1:A:976:TYR:CD2	2.41	0.55
1:A:949:HIS:ND1	1:A:1065:GLU:OE2	2.34	0.55
1:B:878:LEU:HA	1:B:881:ILE:HG22	1.88	0.55
1:B:1788:LYS:HD2	1:B:1833:ILE:HG22	1.87	0.55
1:B:3035:ILE:O	1:B:3039:THR:HG23	2.05	0.55
1:B:3293:GLY:HA3	1:B:3295:TRP:CZ3	2.41	0.55
1:B:4144:ARG:HB3	1:B:4961:GLN:HE22	1.72	0.55
1:C:894:VAL:HG12	1:C:897:LYS:NZ	2.21	0.55
1:D:1266:GLU:OE1	1:D:1266:GLU:N	2.30	0.55
1:D:1849:SER:O	1:D:2054:LYS:NZ	2.39	0.55
1:A:1266:GLU:OE1	1:A:1266:GLU:N	2.30	0.55
1:A:2496:LEU:HD23	1:A:2520:LEU:HD13	1.87	0.55
1:A:2975:PHE:HB3	1:A:3039:THR:HG21	1.86	0.55
1:A:3293:GLY:HA3	1:A:3295:TRP:CZ3	2.42	0.55
1:B:949:HIS:ND1	1:B:1065:GLU:OE2	2.34	0.55
1:C:878:LEU:HA	1:C:881:ILE:HG22	1.88	0.55
1:D:3172:GLU:OE1	1:D:3266:THR:OG1	2.22	0.55
1:D:3238:ILE:HA	1:D:3241:MET:HB2	1.88	0.55
1:D:4179:GLU:N	1:D:4179:GLU:OE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4832:GLU:O	1:D:4843:ARG:NH1	2.38	0.55
1:B:3045:VAL:O	1:B:3054:LYS:NZ	2.36	0.55
1:B:4689:LYS:HZ3	1:B:4696:ALA:HB2	1.70	0.55
1:C:2703:PRO:HB2	1:C:2854:LYS:HG3	1.89	0.55
1:C:2728:SER:HA	1:C:2731:LYS:HZ2	1.71	0.55
1:C:3122:ILE:HG13	1:C:3126:VAL:HG23	1.88	0.55
1:D:1006:VAL:O	1:D:1009:ARG:HG2	2.06	0.55
1:D:4144:ARG:HB3	1:D:4961:GLN:HE22	1.72	0.55
2:G:24:VAL:HG12	2:G:105:LEU:HD12	1.89	0.55
1:A:555:LEU:HD12	1:A:588:ILE:HD11	1.87	0.55
1:A:3238:ILE:HA	1:A:3241:MET:HB2	1.88	0.55
1:B:2832:THR:HG21	1:C:1290:PHE:HE2	1.71	0.55
1:B:3227:ARG:NH1	1:B:3228:TYR:HB3	2.20	0.55
1:C:1014:GLN:O	1:C:1027:ARG:NH2	2.39	0.55
1:C:4179:GLU:N	1:C:4179:GLU:OE2	2.40	0.55
1:A:3043:ARG:NE	1:A:3120:ASP:OD2	2.27	0.55
1:A:4179:GLU:N	1:A:4179:GLU:OE2	2.40	0.55
1:B:4179:GLU:N	1:B:4179:GLU:OE2	2.40	0.55
1:D:894:VAL:HG12	1:D:897:LYS:NZ	2.21	0.55
1:A:2930:ILE:HG23	1:A:3010:LYS:NZ	2.22	0.55
1:A:3025:ASP:O	1:A:3028:SER:OG	2.14	0.55
1:A:3035:ILE:O	1:A:3039:THR:HG23	2.05	0.55
1:B:891:GLU:HG3	1:B:976:TYR:CD2	2.41	0.55
1:B:1427:TYR:HB2	1:B:1563:VAL:HG11	1.89	0.55
1:C:370:LEU:HD22	1:C:395:HIS:HA	1.89	0.55
1:D:4640:PHE:CD2	1:D:4641:PRO:HD3	2.41	0.55
1:A:1283:LEU:HB2	1:A:1555:PHE:HB2	1.87	0.55
1:A:1559:ARG:HD2	1:A:1565:PRO:HD3	1.88	0.55
1:A:3016:ARG:O	1:A:3018:ARG:NE	2.38	0.55
1:C:1844:GLN:NE2	1:C:1853:GLU:OE1	2.37	0.55
1:D:3166:PHE:CE2	1:D:3168:VAL:HB	2.42	0.55
1:A:629:GLN:OE1	1:A:1669:ASN:ND2	2.40	0.54
1:A:1290:PHE:HE2	1:D:2832:THR:HG21	1.72	0.54
1:A:2703:PRO:HB2	1:A:2854:LYS:HG3	1.89	0.54
1:A:3699:CYS:SG	1:A:3731:LEU:HD12	2.48	0.54
1:B:2930:ILE:HG23	1:B:3010:LYS:NZ	2.22	0.54
1:B:2999:LYS:O	1:B:3003:MET:HG2	2.06	0.54
1:D:370:LEU:HD22	1:D:395:HIS:HA	1.89	0.54
1:D:3122:ILE:HG13	1:D:3126:VAL:HG23	1.88	0.54
1:A:2772:ARG:HA	1:A:2775:ILE:HD12	1.90	0.54
1:B:2772:ARG:HA	1:B:2775:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1006:VAL:O	1:C:1009:ARG:HG2	2.06	0.54
1:C:2832:THR:HG21	1:D:1290:PHE:HE2	1.72	0.54
1:C:3166:PHE:CE2	1:C:3168:VAL:HB	2.42	0.54
1:C:4832:GLU:O	1:C:4843:ARG:NH1	2.38	0.54
1:D:2703:PRO:HB2	1:D:2854:LYS:HG3	1.89	0.54
1:D:2772:ARG:HA	1:D:2775:ILE:HD12	1.90	0.54
1:C:1768:PHE:O	2:G:83:TYR:OH	2.20	0.54
1:C:2129:LEU:HD11	1:C:2141:LEU:HB2	1.89	0.54
1:C:2930:ILE:HG23	1:C:3010:LYS:HZ3	1.72	0.54
1:D:3276:LEU:O	1:D:3280:ILE:HD12	2.08	0.54
1:A:2592:LEU:HD22	1:A:2606:PRO:HB3	1.90	0.54
1:A:3321:PRO:O	1:A:3325:LYS:HG2	2.08	0.54
1:B:2129:LEU:HD11	1:B:2141:LEU:HB2	1.89	0.54
1:B:3699:CYS:SG	1:B:3731:LEU:HD12	2.48	0.54
1:C:3276:LEU:O	1:C:3280:ILE:HD12	2.08	0.54
1:C:3699:CYS:SG	1:C:3731:LEU:HD12	2.48	0.54
1:D:2129:LEU:HD11	1:D:2141:LEU:HB2	1.89	0.54
2:F:24:VAL:HG12	2:F:105:LEU:HD12	1.89	0.54
1:A:1844:GLN:NE2	1:A:1853:GLU:OE1	2.37	0.54
1:A:4834:PRO:HB3	1:A:4843:ARG:HG2	1.89	0.54
2:E:24:VAL:HG12	2:E:105:LEU:HD12	1.89	0.54
1:B:2703:PRO:HB2	1:B:2854:LYS:HG3	1.89	0.54
1:B:3016:ARG:O	1:B:3018:ARG:NE	2.38	0.54
1:C:2772:ARG:HA	1:C:2775:ILE:HD12	1.89	0.54
1:C:3214:LEU:O	1:C:3218:ILE:HG12	2.08	0.54
1:D:878:LEU:HA	1:D:881:ILE:HG22	1.88	0.54
1:A:2129:LEU:HD11	1:A:2141:LEU:HB2	1.89	0.54
1:A:3276:LEU:O	1:A:3280:ILE:HD12	2.08	0.54
1:B:2704:GLN:O	1:B:2704:GLN:HG2	2.08	0.54
1:B:3297:LYS:HE3	1:B:3334:VAL:HG13	1.90	0.54
1:C:3016:ARG:O	1:C:3018:ARG:NE	2.38	0.54
1:C:3823:GLU:HG3	1:C:3827:GLU:H	1.73	0.54
1:C:4144:ARG:HB3	1:C:4961:GLN:HE22	1.72	0.54
1:D:1559:ARG:HD2	1:D:1565:PRO:HD3	1.88	0.54
1:D:2592:LEU:HD22	1:D:2606:PRO:HB3	1.90	0.54
1:D:2704:GLN:O	1:D:2704:GLN:HG2	2.08	0.54
1:D:3699:CYS:SG	1:D:3731:LEU:HD12	2.48	0.54
2:G:63:GLY:O	2:G:67:MET:HG3	2.07	0.54
1:A:878:LEU:HA	1:A:881:ILE:HG22	1.88	0.54
1:A:1427:TYR:HB2	1:A:1563:VAL:HG11	1.89	0.54
1:C:1427:TYR:HB2	1:C:1563:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3297:LYS:HE3	1:C:3334:VAL:HG13	1.90	0.54
1:D:2930:ILE:HG23	1:D:3010:LYS:NZ	2.22	0.54
2:F:63:GLY:O	2:F:67:MET:HG3	2.07	0.54
1:B:629:GLN:OE1	1:B:1669:ASN:ND2	2.40	0.54
1:B:3276:LEU:O	1:B:3280:ILE:HD12	2.08	0.54
1:C:629:GLN:OE1	1:C:1669:ASN:ND2	2.40	0.54
1:C:3018:ARG:HG3	1:C:3021:LEU:HD22	1.90	0.54
1:C:3321:PRO:O	1:C:3325:LYS:HG2	2.08	0.54
1:C:4834:PRO:HB3	1:C:4843:ARG:HG2	1.89	0.54
1:D:629:GLN:OE1	1:D:1669:ASN:ND2	2.40	0.54
1:D:1272:ARG:HH12	1:D:1584:PRO:HA	1.72	0.54
1:D:1844:GLN:NE2	1:D:1853:GLU:OE1	2.37	0.54
1:A:1849:SER:O	1:A:2054:LYS:NZ	2.39	0.54
1:A:2704:GLN:HG2	1:A:2704:GLN:O	2.08	0.54
1:A:2930:ILE:HG23	1:A:3010:LYS:HZ3	1.73	0.54
1:A:4257:ARG:O	1:A:4261:LEU:HG	2.08	0.54
1:B:3321:PRO:O	1:B:3325:LYS:HG2	2.08	0.54
1:B:4832:GLU:O	1:B:4843:ARG:NH1	2.38	0.54
1:C:2592:LEU:HD22	1:C:2606:PRO:HB3	1.90	0.54
1:C:2895:PHE:HA	1:C:2898:ILE:HG22	1.90	0.54
1:C:4906:GLU:OE1	1:D:4183:LYS:HE3	2.08	0.54
1:D:3321:PRO:O	1:D:3325:LYS:HG2	2.08	0.54
1:A:112:THR:HG21	1:A:174:LYS:HD3	1.91	0.53
1:A:1251:LEU:HD23	1:A:1599:MET:HE2	1.90	0.53
1:A:2119:LEU:HB2	1:A:2152:ASN:HD22	1.73	0.53
1:A:2895:PHE:HA	1:A:2898:ILE:HG22	1.89	0.53
1:A:2999:LYS:O	1:A:3003:MET:HG2	2.06	0.53
1:B:3823:GLU:HG3	1:B:3827:GLU:H	1.73	0.53
1:C:1686:LEU:HD22	1:C:1790:LYS:NZ	2.24	0.53
1:C:2930:ILE:HG23	1:C:3010:LYS:NZ	2.22	0.53
1:D:2895:PHE:HA	1:D:2898:ILE:HG22	1.90	0.53
1:D:2930:ILE:HG23	1:D:3010:LYS:HZ3	1.74	0.53
1:D:4834:PRO:HB3	1:D:4843:ARG:HG2	1.89	0.53
1:A:3122:ILE:HG13	1:A:3126:VAL:HG23	1.88	0.53
1:B:1849:SER:O	1:B:2054:LYS:NZ	2.39	0.53
1:B:2895:PHE:HA	1:B:2898:ILE:HG22	1.90	0.53
1:B:3160:ALA:N	1:B:3241:MET:HE1	2.23	0.53
1:B:3214:LEU:O	1:B:3218:ILE:HG12	2.08	0.53
1:B:4257:ARG:O	1:B:4261:LEU:HG	2.08	0.53
1:D:112:THR:HG21	1:D:174:LYS:HD3	1.91	0.53
1:D:1685:LEU:O	1:D:1689:ILE:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3198:PRO:HG2	1:D:3204:VAL:HA	1.91	0.53
2:H:63:GLY:O	2:H:67:MET:HG3	2.07	0.53
1:A:541:ILE:HD11	1:A:574:VAL:HG13	1.91	0.53
1:A:1685:LEU:O	1:A:1689:ILE:HG12	2.09	0.53
2:E:63:GLY:O	2:E:67:MET:HG3	2.07	0.53
1:B:3198:PRO:HG2	1:B:3204:VAL:HA	1.91	0.53
1:D:949:HIS:ND1	1:D:1065:GLU:OE2	2.34	0.53
1:D:2734:MET:HE1	1:D:2823:PRO:HB2	1.90	0.53
1:A:3166:PHE:CE2	1:A:3168:VAL:HB	2.42	0.53
1:A:3297:LYS:HE3	1:A:3334:VAL:HG13	1.90	0.53
1:A:4520:TYR:OH	1:A:4559:TYR:HA	2.09	0.53
1:B:4520:TYR:OH	1:B:4559:TYR:HA	2.09	0.53
1:C:3134:LEU:HB3	1:C:3162:PHE:HE2	1.74	0.53
1:C:4520:TYR:OH	1:C:4559:TYR:HA	2.09	0.53
1:D:1427:TYR:HB2	1:D:1563:VAL:HG11	1.89	0.53
1:D:3778:LEU:HD13	1:D:3854:PHE:CD1	2.41	0.53
1:D:4257:ARG:O	1:D:4261:LEU:HG	2.08	0.53
1:A:3214:LEU:O	1:A:3218:ILE:HG12	2.08	0.53
1:B:541:ILE:HD11	1:B:574:VAL:HG13	1.91	0.53
1:B:2592:LEU:HD22	1:B:2606:PRO:HB3	1.89	0.53
1:B:2691:LYS:O	1:B:2694:SER:OG	2.17	0.53
1:B:3134:LEU:HB3	1:B:3162:PHE:HE2	1.74	0.53
1:B:4834:PRO:HB3	1:B:4843:ARG:HG2	1.89	0.53
1:C:3068:LEU:O	1:C:3071:THR:OG1	2.25	0.53
1:D:3018:ARG:HG3	1:D:3021:LEU:HD22	1.90	0.53
1:A:370:LEU:HD22	1:A:395:HIS:HA	1.89	0.53
1:A:1272:ARG:HH12	1:A:1584:PRO:HA	1.73	0.53
1:A:1957:LEU:HA	1:A:1960:ARG:NH1	2.24	0.53
1:B:1686:LEU:HD22	1:B:1790:LYS:NZ	2.24	0.53
1:C:1685:LEU:O	1:C:1689:ILE:HG12	2.08	0.53
1:C:2704:GLN:HG2	1:C:2704:GLN:O	2.08	0.53
1:D:541:ILE:HD11	1:D:574:VAL:HG13	1.90	0.53
1:D:2440:PHE:CZ	1:D:2465:LYS:HE3	2.44	0.53
1:D:3214:LEU:O	1:D:3218:ILE:HG12	2.08	0.53
1:D:3297:LYS:HE3	1:D:3334:VAL:HG13	1.90	0.53
1:D:3882:GLN:HB2	1:D:3947:PHE:CE2	2.44	0.53
1:A:3198:PRO:HG2	1:A:3204:VAL:HA	1.91	0.53
1:A:4906:GLU:OE1	1:B:4183:LYS:HE3	2.09	0.53
1:B:3778:LEU:HD13	1:B:3854:PHE:CD1	2.41	0.53
1:C:3270:SER:HA	1:C:3273:MET:CE	2.37	0.53
1:C:3882:GLN:HB2	1:C:3947:PHE:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1957:LEU:HA	1:D:1960:ARG:NH1	2.24	0.53
1:D:2119:LEU:HB2	1:D:2152:ASN:HD22	1.73	0.53
1:A:1686:LEU:HD22	1:A:1790:LYS:NZ	2.24	0.53
1:A:2055:SER:HB2	1:A:2060:GLN:HB2	1.91	0.53
1:A:3068:LEU:O	1:A:3071:THR:OG1	2.25	0.53
1:A:3071:THR:HA	1:A:3074:ASN:HD21	1.74	0.53
1:A:4832:GLU:O	1:A:4843:ARG:NH1	2.38	0.53
1:B:112:THR:HG21	1:B:174:LYS:HD3	1.91	0.53
1:C:829:LYS:NZ	1:C:1037:LEU:HB3	2.24	0.53
1:C:1097:LYS:HA	1:C:1168:MET:HE1	1.90	0.53
1:A:2440:PHE:CZ	1:A:2465:LYS:HE3	2.44	0.53
1:A:2570:GLU:HG2	1:A:2605:MET:HG3	1.91	0.53
1:A:3172:GLU:OE1	1:A:3266:THR:OG1	2.22	0.53
1:B:370:LEU:HD22	1:B:395:HIS:HA	1.89	0.53
1:B:1685:LEU:O	1:B:1689:ILE:HG12	2.09	0.53
1:B:3166:PHE:CE2	1:B:3168:VAL:HB	2.42	0.53
1:B:4651:ARG:HH11	1:B:4651:ARG:HG2	1.74	0.53
1:C:2734:MET:HE1	1:C:2823:PRO:HB2	1.90	0.53
1:C:3198:PRO:HG2	1:C:3204:VAL:HA	1.91	0.53
1:D:829:LYS:NZ	1:D:1037:LEU:HB3	2.24	0.53
1:D:1686:LEU:HD22	1:D:1790:LYS:NZ	2.24	0.53
1:D:2570:GLU:HG2	1:D:2605:MET:HG3	1.91	0.53
1:D:3134:LEU:HB3	1:D:3162:PHE:HE2	1.74	0.53
1:D:3228:TYR:HA	1:D:3235:MET:CE	2.39	0.53
1:D:3697:LYS:HA	1:D:3700:HIS:NE2	2.24	0.53
1:D:3823:GLU:HG3	1:D:3827:GLU:H	1.73	0.53
1:A:514:PHE:HD2	1:A:526:TRP:HB2	1.74	0.53
1:A:3188:SER:OG	1:A:3191:GLU:OE1	2.28	0.53
1:B:3018:ARG:HG3	1:B:3021:LEU:HD22	1.90	0.53
1:B:3882:GLN:HB2	1:B:3947:PHE:CE2	2.44	0.53
1:C:112:THR:HG21	1:C:174:LYS:HD3	1.91	0.53
1:C:889:ILE:HA	1:C:892:LEU:HD12	1.91	0.53
1:C:1957:LEU:HA	1:C:1960:ARG:NH1	2.24	0.53
1:C:2119:LEU:HB2	1:C:2152:ASN:HD22	1.74	0.53
1:C:2440:PHE:CZ	1:C:2465:LYS:HE3	2.44	0.53
1:C:3228:TYR:HA	1:C:3235:MET:CE	2.39	0.53
1:D:3270:SER:HA	1:D:3273:MET:CE	2.37	0.53
1:A:2137:GLU:OE1	1:A:2137:GLU:N	2.32	0.52
1:A:2734:MET:HE1	1:A:2823:PRO:HB2	1.91	0.52
1:A:3778:LEU:HD13	1:A:3854:PHE:CD1	2.41	0.52
1:B:1957:LEU:HA	1:B:1960:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2055:SER:HB2	1:B:2060:GLN:HB2	1.91	0.52
1:B:2734:MET:HE1	1:B:2823:PRO:HB2	1.91	0.52
1:C:3183:ILE:HG23	1:C:3184:TYR:HD1	1.74	0.52
1:C:4257:ARG:O	1:C:4261:LEU:HG	2.08	0.52
1:D:2691:LYS:O	1:D:2694:SER:OG	2.17	0.52
1:A:4183:LYS:HE3	1:D:4906:GLU:OE1	2.09	0.52
1:B:35:LEU:HD11	1:B:201:LEU:HD13	1.92	0.52
1:B:1251:LEU:HD23	1:B:1599:MET:HE2	1.90	0.52
1:B:2119:LEU:HB2	1:B:2152:ASN:HD22	1.73	0.52
1:B:2570:GLU:HG2	1:B:2605:MET:HG3	1.91	0.52
1:B:3228:TYR:HA	1:B:3235:MET:CE	2.39	0.52
1:C:541:ILE:HD11	1:C:574:VAL:HG13	1.91	0.52
1:D:4520:TYR:OH	1:D:4559:TYR:HA	2.09	0.52
1:A:3228:TYR:HA	1:A:3235:MET:CE	2.39	0.52
1:B:370:LEU:HB2	1:B:393:MET:HE3	1.91	0.52
1:B:1272:ARG:HH12	1:B:1584:PRO:HA	1.72	0.52
1:B:2440:PHE:CZ	1:B:2465:LYS:HE3	2.44	0.52
1:B:3188:SER:OG	1:B:3191:GLU:OE1	2.27	0.52
1:C:2570:GLU:HG2	1:C:2605:MET:HG3	1.91	0.52
1:C:3697:LYS:HA	1:C:3700:HIS:NE2	2.24	0.52
1:D:3188:SER:OG	1:D:3191:GLU:OE1	2.27	0.52
1:A:165:ALA:HB1	1:A:211:LEU:HD22	1.92	0.52
1:B:3071:THR:HA	1:B:3074:ASN:HD21	1.74	0.52
1:B:3129:SER:O	1:B:3133:ILE:HG13	2.10	0.52
1:C:1118:SER:HB3	1:C:1204:VAL:HG11	1.92	0.52
1:C:1286:THR:OG1	1:C:1550:PRO:O	2.19	0.52
1:C:2691:LYS:O	1:C:2694:SER:OG	2.17	0.52
1:C:3314:LEU:O	1:C:3318:HIS:ND1	2.42	0.52
1:A:3018:ARG:HG3	1:A:3021:LEU:HD22	1.90	0.52
1:A:3697:LYS:HA	1:A:3700:HIS:NE2	2.24	0.52
1:B:514:PHE:HD2	1:B:526:TRP:HB2	1.74	0.52
1:C:4262:LYS:HG3	1:D:4698:LEU:HD13	1.91	0.52
1:D:35:LEU:HD11	1:D:201:LEU:HD13	1.92	0.52
1:D:889:ILE:HA	1:D:892:LEU:HD12	1.91	0.52
1:D:1118:SER:HB3	1:D:1204:VAL:HG11	1.92	0.52
1:A:35:LEU:HD11	1:A:201:LEU:HD13	1.91	0.52
1:B:3314:LEU:O	1:B:3318:HIS:ND1	2.42	0.52
1:C:35:LEU:HD11	1:C:201:LEU:HD13	1.92	0.52
1:C:4651:ARG:HG2	1:C:4651:ARG:HH11	1.74	0.52
1:D:4943:MET:HE1	1:D:4950:GLU:HB2	1.92	0.52
1:A:829:LYS:NZ	1:A:1037:LEU:HB3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3314:LEU:O	1:A:3318:HIS:ND1	2.42	0.52
1:B:1768:PHE:O	2:F:83:TYR:OH	2.21	0.52
1:C:514:PHE:HD2	1:C:526:TRP:HB2	1.74	0.52
1:C:2055:SER:HB2	1:C:2060:GLN:HB2	1.91	0.52
1:C:2137:GLU:OE1	1:C:2137:GLU:N	2.32	0.52
1:D:3016:ARG:O	1:D:3018:ARG:NE	2.38	0.52
1:A:2168:HIS:O	1:A:2172:MET:HB2	2.10	0.52
1:A:3072:MET:SD	1:A:3136:SER:HA	2.50	0.52
1:A:3183:ILE:HG23	1:A:3184:TYR:HD1	1.74	0.52
1:B:889:ILE:HA	1:B:892:LEU:HD12	1.92	0.52
1:D:165:ALA:HB1	1:D:211:LEU:HD22	1.92	0.52
1:D:2759:PRO:HD2	1:D:2762:LEU:HD22	1.92	0.52
1:D:3183:ILE:HG23	1:D:3184:TYR:HD1	1.74	0.52
1:B:829:LYS:NZ	1:B:1037:LEU:HB3	2.24	0.52
1:B:1118:SER:HB3	1:B:1204:VAL:HG11	1.92	0.52
1:B:3183:ILE:HG23	1:B:3184:TYR:HD1	1.74	0.52
1:B:4518:LEU:HD12	1:C:4809:MET:HG3	1.91	0.52
1:C:1272:ARG:HH12	1:C:1584:PRO:HA	1.73	0.52
1:C:2455:ASP:OD2	1:C:2457:SER:OG	2.20	0.52
1:C:2759:PRO:HD2	1:C:2762:LEU:HD22	1.92	0.52
1:C:3071:THR:HA	1:C:3074:ASN:HD21	1.74	0.52
1:D:1041:ARG:O	1:D:1044:LYS:HG3	2.10	0.52
1:D:2055:SER:HB2	1:D:2060:GLN:HB2	1.91	0.52
1:D:4651:ARG:HG2	1:D:4651:ARG:HH11	1.75	0.52
1:A:624:ALA:HB2	1:A:1667:LEU:HD12	1.92	0.52
1:A:948:CYS:HA	1:A:1067:PRO:HD3	1.92	0.52
1:A:1097:LYS:HA	1:A:1168:MET:HE1	1.92	0.52
1:A:1502:ASN:OD1	1:A:1503:ASN:N	2.43	0.52
1:B:1097:LYS:HA	1:B:1168:MET:HE1	1.91	0.52
1:B:1501:ASN:OD1	1:B:1502:ASN:N	2.44	0.52
1:B:2701:PHE:CE2	1:B:2703:PRO:HG3	2.45	0.52
1:B:3697:LYS:HA	1:B:3700:HIS:NE2	2.24	0.52
1:C:1041:ARG:O	1:C:1044:LYS:HG3	2.10	0.52
1:C:1501:ASN:OD1	1:C:1502:ASN:N	2.44	0.52
1:C:3188:SER:OG	1:C:3191:GLU:OE1	2.27	0.52
1:C:3778:LEU:HD13	1:C:3854:PHE:CD1	2.41	0.52
1:C:4689:LYS:HZ3	1:C:4696:ALA:HB2	1.74	0.52
1:D:514:PHE:HD2	1:D:526:TRP:HB2	1.74	0.52
1:A:1041:ARG:O	1:A:1044:LYS:HG3	2.10	0.51
1:A:3070:LYS:O	1:A:3074:ASN:ND2	2.43	0.51
1:A:3882:GLN:HB2	1:A:3947:PHE:CE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:58:LYS:O	2:E:62:GLU:HG3	2.10	0.51
1:B:1502:ASN:OD1	1:B:1503:ASN:N	2.43	0.51
1:B:3070:LYS:O	1:B:3074:ASN:ND2	2.43	0.51
1:C:624:ALA:HB2	1:C:1667:LEU:HD12	1.92	0.51
1:C:3070:LYS:O	1:C:3074:ASN:ND2	2.43	0.51
1:D:370:LEU:HB2	1:D:393:MET:HE3	1.92	0.51
1:D:624:ALA:HB2	1:D:1667:LEU:HD12	1.92	0.51
1:D:2168:HIS:O	1:D:2172:MET:HB2	2.10	0.51
1:D:3071:THR:HA	1:D:3074:ASN:HD21	1.74	0.51
1:A:3823:GLU:HG3	1:A:3827:GLU:H	1.73	0.51
1:A:4651:ARG:HG2	1:A:4651:ARG:HH11	1.74	0.51
1:B:2119:LEU:HB2	1:B:2152:ASN:ND2	2.25	0.51
1:B:3072:MET:SD	1:B:3136:SER:HA	2.50	0.51
1:D:1176:THR:HG22	1:D:1181:ILE:HA	1.93	0.51
1:D:1501:ASN:OD1	1:D:1502:ASN:N	2.44	0.51
1:D:3314:LEU:O	1:D:3318:HIS:ND1	2.42	0.51
1:A:849:ASP:OD1	1:A:1214:ARG:NE	2.44	0.51
1:A:889:ILE:HA	1:A:892:LEU:HD12	1.92	0.51
1:A:1118:SER:HB3	1:A:1204:VAL:HG11	1.92	0.51
1:A:4569:GLU:HB3	1:A:4570:PRO:HD3	1.92	0.51
1:B:892:LEU:HD21	1:B:980:PRO:HG3	1.93	0.51
1:B:1041:ARG:O	1:B:1044:LYS:HG3	2.10	0.51
1:B:4569:GLU:HB3	1:B:4570:PRO:HD3	1.92	0.51
1:C:881:ILE:HG12	1:C:1062:TYR:CE1	2.45	0.51
1:C:881:ILE:HD12	1:C:884:LYS:HZ3	1.75	0.51
1:D:881:ILE:HG12	1:D:1062:TYR:CE1	2.46	0.51
1:D:3882:GLN:HE21	1:D:3946:GLY:HA3	1.75	0.51
1:A:307:SER:OG	1:A:315:LEU:O	2.28	0.51
1:A:1184:ASP:OD1	1:A:1188:SER:OG	2.29	0.51
1:A:1414:ARG:O	1:A:1561:LYS:NZ	2.44	0.51
1:A:3129:SER:O	1:A:3133:ILE:HG13	2.10	0.51
1:A:3882:GLN:HE21	1:A:3946:GLY:HA3	1.75	0.51
1:B:881:ILE:HG13	1:B:885:LEU:HD23	1.93	0.51
1:C:3129:SER:O	1:C:3133:ILE:HG13	2.10	0.51
1:D:3068:LEU:O	1:D:3071:THR:OG1	2.25	0.51
2:F:58:LYS:O	2:F:62:GLU:HG3	2.10	0.51
1:A:1176:THR:HG22	1:A:1181:ILE:HA	1.93	0.51
1:A:3270:SER:HA	1:A:3273:MET:CE	2.37	0.51
1:B:881:ILE:HG12	1:B:1062:TYR:CE1	2.46	0.51
1:B:3209:PRO:HB3	1:B:3213:LYS:HE2	1.93	0.51
1:C:1436:GLN:O	1:C:1500:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4569:GLU:HB3	1:C:4570:PRO:HD3	1.93	0.51
1:D:163:HIS:HB2	1:D:182:ILE:HG23	1.93	0.51
1:D:849:ASP:OD1	1:D:1214:ARG:NE	2.44	0.51
1:D:1502:ASN:OD1	1:D:1503:ASN:N	2.43	0.51
1:A:1436:GLN:O	1:A:1500:ARG:NH2	2.43	0.51
1:A:3228:TYR:CE2	1:A:3232:PRO:HB3	2.46	0.51
1:B:948:CYS:HA	1:B:1067:PRO:HD3	1.92	0.51
1:B:2168:HIS:O	1:B:2172:MET:HB2	2.10	0.51
1:C:1176:THR:HG22	1:C:1181:ILE:HA	1.93	0.51
1:C:2701:PHE:CE2	1:C:2703:PRO:HG3	2.45	0.51
1:C:2824:ARG:NH2	1:D:1502:ASN:O	2.44	0.51
1:A:2701:PHE:CE2	1:A:2703:PRO:HG3	2.45	0.51
1:A:3209:PRO:HB3	1:A:3213:LYS:HE2	1.93	0.51
1:B:235:ARG:NH2	1:B:412:GLU:OE2	2.27	0.51
1:B:624:ALA:HB2	1:B:1667:LEU:HD12	1.92	0.51
1:B:995:MET:O	1:B:999:LEU:HD23	2.11	0.51
1:B:1414:ARG:O	1:B:1561:LYS:NZ	2.44	0.51
1:B:2793:ARG:HH21	1:B:2796:ASP:HB3	1.76	0.51
1:C:307:SER:HB3	1:C:327:THR:HG22	1.93	0.51
1:C:892:LEU:HD21	1:C:980:PRO:HG3	1.93	0.51
1:D:1436:GLN:O	1:D:1500:ARG:NH2	2.43	0.51
1:D:2119:LEU:HB2	1:D:2152:ASN:ND2	2.25	0.51
1:D:2723:LYS:HG2	1:D:2895:PHE:CZ	2.43	0.51
1:A:884:LYS:HA	1:A:887:GLU:OE1	2.11	0.51
1:A:995:MET:O	1:A:999:LEU:HD23	2.11	0.51
1:B:165:ALA:HB1	1:B:211:LEU:HD22	1.92	0.51
1:B:307:SER:HB3	1:B:327:THR:HG22	1.93	0.51
1:B:884:LYS:HA	1:B:887:GLU:OE1	2.11	0.51
1:B:1184:ASP:OD1	1:B:1188:SER:OG	2.29	0.51
1:B:3228:TYR:CE2	1:B:3232:PRO:HB3	2.46	0.51
1:B:3882:GLN:HE21	1:B:3946:GLY:HA3	1.75	0.51
2:H:58:LYS:O	2:H:62:GLU:HG3	2.10	0.51
1:A:2119:LEU:HB2	1:A:2152:ASN:ND2	2.25	0.51
1:A:3145:SER:O	1:A:3149:GLU:HG2	2.11	0.51
1:B:1176:THR:HG22	1:B:1181:ILE:HA	1.93	0.51
1:B:1266:GLU:OE1	1:B:1266:GLU:N	2.30	0.51
1:B:1598:ARG:NH2	1:B:1601:ASN:OD1	2.44	0.51
1:C:881:ILE:HG13	1:C:885:LEU:HD23	1.93	0.51
1:C:1502:ASN:OD1	1:C:1503:ASN:N	2.43	0.51
1:C:3145:SER:O	1:C:3149:GLU:HG2	2.11	0.51
1:C:3882:GLN:HE21	1:C:3946:GLY:HA3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:58:LYS:O	2:G:62:GLU:HG3	2.10	0.51
1:A:1501:ASN:OD1	1:A:1502:ASN:N	2.44	0.51
1:A:1598:ARG:NH2	1:A:1601:ASN:OD1	2.44	0.51
1:C:2338:GLU:N	1:C:2338:GLU:OE1	2.44	0.51
1:D:3070:LYS:O	1:D:3074:ASN:ND2	2.43	0.51
1:D:3072:MET:SD	1:D:3136:SER:HA	2.50	0.51
1:A:881:ILE:HG13	1:A:885:LEU:HD23	1.93	0.50
1:A:920:GLU:OE1	1:A:974:SER:OG	2.25	0.50
1:A:2759:PRO:HD2	1:A:2762:LEU:HD22	1.92	0.50
1:A:2793:ARG:HH21	1:A:2796:ASP:HB3	1.76	0.50
1:B:1124:PRO:HD2	1:B:1594:VAL:HG23	1.93	0.50
1:B:1436:GLN:O	1:B:1500:ARG:NH2	2.43	0.50
1:B:2759:PRO:HD2	1:B:2762:LEU:HD22	1.92	0.50
1:B:4250:TYR:O	1:B:4254:THR:HG23	2.11	0.50
1:C:884:LYS:HA	1:C:887:GLU:OE1	2.11	0.50
1:C:995:MET:O	1:C:999:LEU:HD23	2.11	0.50
1:C:3072:MET:SD	1:C:3136:SER:HA	2.50	0.50
1:C:3209:PRO:HB3	1:C:3213:LYS:HE2	1.93	0.50
1:A:2884:LYS:O	1:A:2887:GLU:HG3	2.11	0.50
1:A:3134:LEU:HB3	1:A:3162:PHE:HE2	1.74	0.50
1:B:3145:SER:O	1:B:3149:GLU:HG2	2.11	0.50
1:C:163:HIS:HB2	1:C:182:ILE:HG23	1.93	0.50
1:C:948:CYS:HA	1:C:1067:PRO:HD3	1.92	0.50
1:C:1414:ARG:O	1:C:1561:LYS:NZ	2.44	0.50
1:C:1960:ARG:HA	1:C:1963:LYS:HG2	1.94	0.50
1:C:3228:TYR:CE2	1:C:3232:PRO:HB3	2.46	0.50
1:A:307:SER:HB3	1:A:327:THR:HG22	1.93	0.50
1:A:881:ILE:HG12	1:A:1062:TYR:CE1	2.45	0.50
1:A:882:ARG:NH1	1:A:883:GLU:HB2	2.27	0.50
1:A:4943:MET:HE1	1:A:4950:GLU:HB2	1.94	0.50
1:B:849:ASP:OD1	1:B:1214:ARG:NE	2.44	0.50
1:B:1006:VAL:HA	1:B:1009:ARG:NE	2.27	0.50
1:B:4502:MET:SD	1:B:4585:PHE:HB3	2.52	0.50
1:C:2119:LEU:HB2	1:C:2152:ASN:ND2	2.25	0.50
1:C:4502:MET:SD	1:C:4585:PHE:HB3	2.52	0.50
1:D:1414:ARG:O	1:D:1561:LYS:NZ	2.43	0.50
1:D:4502:MET:SD	1:D:4585:PHE:HB3	2.52	0.50
1:A:163:HIS:HB2	1:A:182:ILE:HG23	1.93	0.50
1:B:776:GLN:NE2	1:B:1472:GLU:OE2	2.45	0.50
1:C:1598:ARG:NH2	1:C:1601:ASN:OD1	2.44	0.50
1:C:2168:HIS:O	1:C:2172:MET:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4806:CYS:HA	1:C:4812:CYS:HB2	1.93	0.50
1:A:2087:LEU:O	1:A:2091:GLN:HG2	2.12	0.50
1:A:4896:ASP:OD1	1:A:4897:TYR:N	2.45	0.50
1:C:165:ALA:HB1	1:C:211:LEU:HD22	1.92	0.50
1:C:323:ASP:OD1	1:C:324:VAL:N	2.45	0.50
1:C:776:GLN:NE2	1:C:1472:GLU:OE2	2.45	0.50
1:C:849:ASP:OD1	1:C:1214:ARG:NE	2.44	0.50
1:C:895:MET:O	1:C:899:GLU:HG2	2.12	0.50
1:C:963:LYS:HZ3	1:C:979:ALA:HB3	1.76	0.50
1:C:4943:MET:HE1	1:C:4950:GLU:HB2	1.94	0.50
1:D:882:ARG:NH1	1:D:883:GLU:HB2	2.27	0.50
1:D:1097:LYS:HA	1:D:1168:MET:HE1	1.93	0.50
1:D:3209:PRO:HB3	1:D:3213:LYS:HE2	1.93	0.50
1:A:776:GLN:NE2	1:A:1472:GLU:OE2	2.45	0.50
1:A:892:LEU:HD21	1:A:980:PRO:HG3	1.92	0.50
1:B:658:ASN:ND2	1:B:833:LYS:HG2	2.27	0.50
1:B:1960:ARG:HA	1:B:1963:LYS:HG2	1.94	0.50
1:B:2930:ILE:HG23	1:B:3010:LYS:HZ3	1.77	0.50
1:B:3234:VAL:HA	1:B:3238:ILE:HD12	1.94	0.50
1:C:1184:ASP:OD1	1:C:1188:SER:OG	2.29	0.50
1:C:2723:LYS:HG2	1:C:2895:PHE:CZ	2.43	0.50
1:C:2884:LYS:O	1:C:2887:GLU:HG3	2.11	0.50
1:D:884:LYS:HA	1:D:887:GLU:OE1	2.11	0.50
1:D:892:LEU:HD21	1:D:980:PRO:HG3	1.92	0.50
1:D:895:MET:O	1:D:899:GLU:HG2	2.12	0.50
1:D:1184:ASP:OD1	1:D:1188:SER:OG	2.29	0.50
1:D:1960:ARG:HA	1:D:1963:LYS:HG2	1.94	0.50
1:D:2701:PHE:CE2	1:D:2703:PRO:HG3	2.45	0.50
1:D:2884:LYS:O	1:D:2887:GLU:HG3	2.11	0.50
1:D:3129:SER:O	1:D:3133:ILE:HG13	2.10	0.50
1:A:658:ASN:ND2	1:A:833:LYS:HG2	2.26	0.50
1:C:1006:VAL:HA	1:C:1009:ARG:NE	2.27	0.50
1:C:3650:GLU:HB2	1:C:3651:PRO:HD3	1.94	0.50
1:D:2087:LEU:O	1:D:2091:GLN:HG2	2.12	0.50
1:D:2338:GLU:OE1	1:D:2338:GLU:N	2.44	0.50
1:D:4569:GLU:HB3	1:D:4570:PRO:HD3	1.93	0.50
1:A:3650:GLU:HB2	1:A:3651:PRO:HD3	1.94	0.50
1:A:4250:TYR:O	1:A:4254:THR:HG23	2.11	0.50
1:A:4502:MET:SD	1:A:4585:PHE:HB3	2.52	0.50
1:B:28:ILE:HG22	1:B:29:HIS:HD2	1.77	0.50
1:C:28:ILE:HG22	1:C:29:HIS:HD2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1124:PRO:HD2	1:C:1594:VAL:HG23	1.93	0.50
1:C:4116:GLN:O	1:C:4120:GLU:HG2	2.12	0.50
1:D:3145:SER:O	1:D:3149:GLU:HG2	2.11	0.50
1:D:3228:TYR:CE2	1:D:3232:PRO:HB3	2.46	0.50
1:D:3650:GLU:HB2	1:D:3651:PRO:HD3	1.94	0.50
1:A:76:ARG:HG2	1:D:3890:TRP:HB3	1.93	0.50
1:A:235:ARG:NH2	1:A:412:GLU:OE2	2.27	0.50
1:B:2087:LEU:O	1:B:2091:GLN:HG2	2.12	0.50
1:B:2884:LYS:O	1:B:2887:GLU:HG3	2.11	0.50
1:B:3153:SER:O	1:B:3156:GLY:N	2.45	0.50
1:B:3650:GLU:HB2	1:B:3651:PRO:HD3	1.94	0.50
1:C:2087:LEU:O	1:C:2091:GLN:HG2	2.12	0.50
1:C:2629:ASN:OD1	1:C:2630:PHE:N	2.45	0.50
1:C:4896:ASP:OD1	1:C:4897:TYR:N	2.45	0.50
1:D:881:ILE:HG13	1:D:885:LEU:HD23	1.93	0.50
1:D:1006:VAL:HA	1:D:1009:ARG:NE	2.27	0.50
1:B:323:ASP:OD1	1:B:324:VAL:N	2.45	0.49
1:B:2137:GLU:OE1	1:B:2137:GLU:N	2.32	0.49
1:B:4943:MET:HE1	1:B:4950:GLU:HB2	1.94	0.49
1:C:15:ARG:HH21	1:C:110:HIS:HB3	1.77	0.49
1:C:2716:LYS:HD3	1:C:2791:ARG:HG3	1.94	0.49
1:C:4250:TYR:O	1:C:4254:THR:HG23	2.11	0.49
1:D:307:SER:HB3	1:D:327:THR:HG22	1.93	0.49
1:D:4250:TYR:O	1:D:4254:THR:HG23	2.11	0.49
1:A:1006:VAL:HA	1:A:1009:ARG:NE	2.27	0.49
1:A:1124:PRO:HD2	1:A:1594:VAL:HG23	1.93	0.49
1:A:1960:ARG:HA	1:A:1963:LYS:HG2	1.94	0.49
1:A:3234:VAL:HA	1:A:3238:ILE:HD12	1.94	0.49
2:E:24:VAL:HG22	2:E:48:LYS:HG2	1.94	0.49
1:B:882:ARG:NH1	1:B:883:GLU:HB2	2.27	0.49
1:B:2338:GLU:OE1	1:B:2338:GLU:N	2.44	0.49
1:B:2788:ARG:NH2	1:B:2906:GLY:O	2.45	0.49
1:C:1266:GLU:OE1	1:C:1266:GLU:N	2.30	0.49
1:D:323:ASP:OD1	1:D:324:VAL:N	2.45	0.49
1:D:948:CYS:HA	1:D:1067:PRO:HD3	1.92	0.49
1:D:4116:GLN:O	1:D:4120:GLU:HG2	2.12	0.49
1:D:4735:ASN:HB3	1:D:4738:PHE:CD2	2.47	0.49
1:A:1978:ASN:HB3	1:A:1983:LYS:NZ	2.27	0.49
1:A:2338:GLU:OE1	1:A:2338:GLU:N	2.44	0.49
1:B:163:HIS:HB2	1:B:182:ILE:HG23	1.93	0.49
1:B:4116:GLN:O	1:B:4120:GLU:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4118:PHE:HA	1:B:4121:LEU:HD12	1.94	0.49
1:B:4896:ASP:OD1	1:B:4897:TYR:N	2.45	0.49
1:C:3044:THR:HA	1:C:3047:LYS:HZ3	1.77	0.49
1:C:3234:VAL:HA	1:C:3238:ILE:HD12	1.94	0.49
1:D:1598:ARG:NH2	1:D:1601:ASN:OD1	2.44	0.49
1:D:2788:ARG:NH2	1:D:2906:GLY:O	2.45	0.49
1:D:3284:ILE:HG21	1:D:3336:GLU:HG2	1.94	0.49
1:A:3284:ILE:HG21	1:A:3336:GLU:HG2	1.94	0.49
1:B:891:GLU:O	1:B:895:MET:HG2	2.13	0.49
1:B:1436:GLN:H	1:B:1500:ARG:HH22	1.60	0.49
1:B:4806:CYS:HA	1:B:4812:CYS:HB2	1.93	0.49
1:C:882:ARG:NH1	1:C:883:GLU:HB2	2.27	0.49
1:C:891:GLU:O	1:C:895:MET:HG2	2.13	0.49
1:D:658:ASN:ND2	1:D:833:LYS:HG2	2.27	0.49
1:D:995:MET:O	1:D:999:LEU:HD23	2.11	0.49
1:D:1251:LEU:HD23	1:D:1599:MET:HE2	1.95	0.49
1:D:4038:ASP:OD2	1:D:4039:GLY:N	2.46	0.49
1:D:4806:CYS:HA	1:D:4812:CYS:HB2	1.93	0.49
1:A:981:MET:N	1:A:981:MET:SD	2.86	0.49
1:B:2629:ASN:OD1	1:B:2630:PHE:N	2.45	0.49
1:C:307:SER:OG	1:C:315:LEU:O	2.28	0.49
1:C:981:MET:N	1:C:981:MET:SD	2.86	0.49
1:C:1727:VAL:HG11	1:C:1926:VAL:HG21	1.95	0.49
1:C:2793:ARG:HH21	1:C:2796:ASP:HB3	1.76	0.49
1:D:28:ILE:HG22	1:D:29:HIS:HD2	1.77	0.49
1:D:131:CYS:SG	1:D:150:GLN:HB2	2.53	0.49
1:A:1922:ILE:O	1:A:1926:VAL:HG23	2.13	0.49
1:A:2788:ARG:NH2	1:A:2906:GLY:O	2.45	0.49
1:A:4038:ASP:OD2	1:A:4039:GLY:N	2.46	0.49
1:A:4116:GLN:O	1:A:4120:GLU:HG2	2.12	0.49
1:B:4625:ASP:OD1	1:B:4625:ASP:N	2.44	0.49
1:B:4735:ASN:HB3	1:B:4738:PHE:CD2	2.47	0.49
1:C:131:CYS:SG	1:C:150:GLN:HB2	2.53	0.49
1:C:658:ASN:ND2	1:C:833:LYS:HG2	2.26	0.49
1:C:1436:GLN:H	1:C:1500:ARG:HH22	1.60	0.49
1:C:2788:ARG:NH2	1:C:2906:GLY:O	2.45	0.49
1:D:1768:PHE:O	2:H:83:TYR:OH	2.25	0.49
1:D:2261:ASP:OD1	1:D:2262:LEU:N	2.45	0.49
1:D:3234:VAL:HA	1:D:3238:ILE:HD12	1.94	0.49
2:G:24:VAL:HG22	2:G:48:LYS:HG2	1.94	0.49
1:A:164:PRO:HB3	1:A:169:ARG:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1436:GLN:H	1:A:1500:ARG:HH22	1.60	0.49
1:A:1457:PHE:HA	1:A:1461:ARG:HH12	1.78	0.49
1:A:2629:ASN:OD1	1:A:2630:PHE:N	2.45	0.49
1:A:4806:CYS:HA	1:A:4812:CYS:HB2	1.93	0.49
1:B:4084:VAL:O	1:B:4088:HIS:HB3	2.13	0.49
1:B:4265:LYS:O	1:B:4269:LYS:HG2	2.13	0.49
1:C:1978:ASN:HB3	1:C:1983:LYS:NZ	2.27	0.49
1:C:3157:GLU:HG3	1:C:3302:PHE:HZ	1.77	0.49
1:D:1124:PRO:HD2	1:D:1594:VAL:HG23	1.93	0.49
1:D:1922:ILE:O	1:D:1926:VAL:HG23	2.13	0.49
1:D:3317:THR:H	1:D:3320:LEU:HD12	1.78	0.49
1:D:4943:MET:HG2	1:D:4948:CYS:HB3	1.95	0.49
1:A:323:ASP:OD1	1:A:324:VAL:N	2.45	0.49
1:A:675:TYR:HB3	1:A:822:CYS:SG	2.53	0.49
1:A:895:MET:O	1:A:899:GLU:HG2	2.12	0.49
1:A:2691:LYS:O	1:A:2694:SER:OG	2.17	0.49
1:A:3187:LYS:O	1:A:3188:SER:OG	2.28	0.49
1:B:307:SER:OG	1:B:315:LEU:O	2.28	0.49
1:B:894:VAL:O	1:B:898:ILE:HG12	2.13	0.49
1:B:1017:THR:O	1:B:1028:ARG:HA	2.13	0.49
1:B:1922:ILE:O	1:B:1926:VAL:HG23	2.13	0.49
1:B:4640:PHE:CG	1:B:4641:PRO:HD3	2.48	0.49
1:C:675:TYR:HB3	1:C:822:CYS:SG	2.53	0.49
1:C:4943:MET:HG2	1:C:4948:CYS:HB3	1.95	0.49
1:D:891:GLU:O	1:D:895:MET:HG2	2.13	0.49
1:D:920:GLU:N	1:D:974:SER:OG	2.46	0.49
1:D:1051:ARG:O	1:D:1055:ARG:HG2	2.13	0.49
1:D:1978:ASN:HB3	1:D:1983:LYS:NZ	2.27	0.49
1:D:2629:ASN:OD1	1:D:2630:PHE:N	2.45	0.49
1:D:3157:GLU:HG3	1:D:3302:PHE:HZ	1.77	0.49
1:D:4896:ASP:OD1	1:D:4897:TYR:N	2.45	0.49
1:A:131:CYS:SG	1:A:150:GLN:HB2	2.53	0.49
1:A:891:GLU:O	1:A:895:MET:HG2	2.13	0.49
1:A:920:GLU:N	1:A:974:SER:OG	2.46	0.49
1:A:3070:LYS:O	1:A:3073:GLU:HG3	2.13	0.49
1:A:4809:MET:HG3	1:D:4518:LEU:HD12	1.95	0.49
1:A:4943:MET:HG2	1:A:4948:CYS:HB3	1.95	0.49
1:B:131:CYS:SG	1:B:150:GLN:HB2	2.53	0.49
1:B:981:MET:SD	1:B:981:MET:N	2.86	0.49
1:B:1727:VAL:HG11	1:B:1926:VAL:HG21	1.95	0.49
1:B:3157:GLU:HG3	1:B:3302:PHE:HZ	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4047:ASP:HA	1:B:4050:LYS:HG2	1.95	0.49
1:C:1457:PHE:HA	1:C:1461:ARG:HH12	1.78	0.49
1:C:1685:LEU:HD22	1:C:1706:LEU:HB2	1.95	0.49
1:C:2167:MET:HE3	1:C:2199:PHE:HZ	1.77	0.49
1:C:2261:ASP:OD1	1:C:2262:LEU:N	2.46	0.49
1:C:3153:SER:O	1:C:3156:GLY:N	2.45	0.49
1:C:3317:THR:H	1:C:3320:LEU:HD12	1.78	0.49
1:C:4640:PHE:CG	1:C:4641:PRO:HD3	2.48	0.49
1:C:4735:ASN:HB3	1:C:4738:PHE:CD2	2.47	0.49
1:D:15:ARG:HH21	1:D:110:HIS:HB3	1.77	0.49
1:D:675:TYR:HB3	1:D:822:CYS:SG	2.53	0.49
1:D:776:GLN:NE2	1:D:1472:GLU:OE2	2.45	0.49
1:D:2716:LYS:HD3	1:D:2791:ARG:HG3	1.94	0.49
1:D:2918:GLU:HA	1:D:2923:TYR:CD1	2.48	0.49
1:D:3187:LYS:HZ2	1:D:3191:GLU:HB3	1.78	0.49
1:D:4640:PHE:CG	1:D:4641:PRO:HD3	2.48	0.49
1:A:1549:SER:HB2	1:D:2830:ASN:HB3	1.94	0.49
1:B:164:PRO:HB3	1:B:169:ARG:HB2	1.95	0.49
1:B:1790:LYS:O	1:B:1794:MET:HG3	2.13	0.49
1:B:4038:ASP:OD2	1:B:4039:GLY:N	2.46	0.49
1:B:4113:THR:O	1:B:4117:THR:HG23	2.13	0.49
1:C:370:LEU:HB2	1:C:393:MET:HE3	1.95	0.49
1:C:1051:ARG:O	1:C:1055:ARG:HG2	2.13	0.49
1:C:4038:ASP:OD2	1:C:4039:GLY:N	2.46	0.49
1:C:4113:THR:O	1:C:4117:THR:HG23	2.13	0.49
1:C:4118:PHE:HA	1:C:4121:LEU:HD12	1.94	0.49
1:D:1685:LEU:HD22	1:D:1706:LEU:HB2	1.95	0.49
1:D:3811:GLN:NE2	1:D:3828:LYS:HB3	2.28	0.49
1:D:4118:PHE:HA	1:D:4121:LEU:HD12	1.94	0.49
1:A:28:ILE:HG22	1:A:29:HIS:HD2	1.77	0.48
1:A:3811:GLN:NE2	1:A:3828:LYS:HB3	2.28	0.48
1:A:4113:THR:O	1:A:4117:THR:HG23	2.13	0.48
1:A:4118:PHE:HA	1:A:4121:LEU:HD12	1.94	0.48
1:B:920:GLU:OE1	1:B:974:SER:OG	2.25	0.48
1:B:1978:ASN:HB3	1:B:1983:LYS:NZ	2.27	0.48
1:B:2770:ILE:HG13	1:B:2771:TYR:CD1	2.48	0.48
1:B:3317:THR:H	1:B:3320:LEU:HD12	1.78	0.48
1:C:894:VAL:O	1:C:898:ILE:HG12	2.13	0.48
1:C:920:GLU:N	1:C:974:SER:OG	2.45	0.48
1:C:3284:ILE:HG21	1:C:3336:GLU:HG2	1.94	0.48
1:D:307:SER:OG	1:D:315:LEU:O	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2341:ASN:OD1	1:D:2342:GLY:N	2.46	0.48
1:D:2770:ILE:HG13	1:D:2771:TYR:CD1	2.48	0.48
1:A:1727:VAL:HG11	1:A:1926:VAL:HG21	1.95	0.48
1:A:4047:ASP:HA	1:A:4050:LYS:HG2	1.95	0.48
1:B:675:TYR:HB3	1:B:822:CYS:SG	2.53	0.48
1:B:2318:ASN:HB3	1:B:2322:ARG:HH12	1.78	0.48
1:B:2581:ARG:HB2	1:B:2584:MET:HG3	1.96	0.48
1:C:1564:MET:CE	1:C:1565:PRO:HD2	2.43	0.48
1:C:2918:GLU:HA	1:C:2923:TYR:CD1	2.48	0.48
1:D:1017:THR:O	1:D:1028:ARG:HA	2.13	0.48
1:D:1564:MET:CE	1:D:1565:PRO:HD2	2.43	0.48
1:D:2793:ARG:HH21	1:D:2796:ASP:HB3	1.76	0.48
1:D:4265:LYS:O	1:D:4269:LYS:HG2	2.13	0.48
2:F:24:VAL:HG22	2:F:48:LYS:HG2	1.94	0.48
2:H:24:VAL:HG22	2:H:48:LYS:HG2	1.94	0.48
1:A:881:ILE:HG13	1:A:885:LEU:CD2	2.44	0.48
1:A:2167:MET:HE3	1:A:2199:PHE:HZ	1.78	0.48
1:A:2581:ARG:HB2	1:A:2584:MET:HG3	1.96	0.48
1:A:2918:GLU:HA	1:A:2923:TYR:CD1	2.48	0.48
1:A:4735:ASN:HB3	1:A:4738:PHE:CD2	2.47	0.48
1:B:2261:ASP:OD1	1:B:2262:LEU:N	2.46	0.48
1:B:2830:ASN:HB3	1:C:1549:SER:HB2	1.94	0.48
1:B:3070:LYS:O	1:B:3073:GLU:HG3	2.13	0.48
1:B:3284:ILE:HG21	1:B:3336:GLU:HG2	1.94	0.48
1:C:1017:THR:O	1:C:1028:ARG:HA	2.13	0.48
1:C:1922:ILE:O	1:C:1926:VAL:HG23	2.13	0.48
1:C:2341:ASN:OD1	1:C:2342:GLY:N	2.47	0.48
1:C:3070:LYS:O	1:C:3073:GLU:HG3	2.13	0.48
1:C:3811:GLN:NE2	1:C:3828:LYS:HB3	2.28	0.48
1:D:3070:LYS:O	1:D:3073:GLU:HG3	2.13	0.48
1:D:3187:LYS:O	1:D:3188:SER:OG	2.28	0.48
1:D:4047:ASP:HA	1:D:4050:LYS:HG2	1.94	0.48
1:A:258:ARG:NH1	1:A:317:MET:HA	2.28	0.48
1:A:894:VAL:O	1:A:898:ILE:HG12	2.13	0.48
1:A:1564:MET:CE	1:A:1565:PRO:HD2	2.43	0.48
1:A:2261:ASP:OD1	1:A:2262:LEU:N	2.46	0.48
1:A:2318:ASN:HB3	1:A:2322:ARG:HH12	1.78	0.48
1:A:2918:GLU:HG3	1:A:2923:TYR:CE1	2.49	0.48
1:A:3230:GLN:N	1:A:3230:GLN:OE1	2.46	0.48
1:A:3317:THR:H	1:A:3320:LEU:HD12	1.78	0.48
1:B:1051:ARG:O	1:B:1055:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1446:ILE:HG12	1:C:1542:ALA:HB2	1.96	0.48
1:C:2318:ASN:HB3	1:C:2322:ARG:HH12	1.78	0.48
1:C:3231:MET:HE3	1:C:3233:HIS:HB2	1.95	0.48
1:C:3260:ARG:HD2	1:C:3260:ARG:O	2.14	0.48
1:D:164:PRO:HB3	1:D:169:ARG:HB2	1.95	0.48
1:D:866:PRO:HA	1:D:1009:ARG:NH2	2.28	0.48
1:D:894:VAL:O	1:D:898:ILE:HG12	2.13	0.48
1:D:2581:ARG:HB2	1:D:2584:MET:HG3	1.96	0.48
1:D:3260:ARG:HD2	1:D:3260:ARG:O	2.14	0.48
1:A:866:PRO:HA	1:A:1009:ARG:NH2	2.28	0.48
1:A:2723:LYS:HG2	1:A:2895:PHE:CZ	2.43	0.48
1:A:2768:LYS:O	1:A:2772:ARG:HG3	2.14	0.48
1:B:1446:ILE:HG12	1:B:1542:ALA:HB2	1.96	0.48
1:B:3811:GLN:NE2	1:B:3828:LYS:HB3	2.28	0.48
1:C:866:PRO:HA	1:C:1009:ARG:NH2	2.28	0.48
1:C:4047:ASP:HA	1:C:4050:LYS:HG2	1.95	0.48
1:D:1436:GLN:H	1:D:1500:ARG:HH22	1.60	0.48
1:D:1790:LYS:O	1:D:1794:MET:HG3	2.13	0.48
1:D:3153:SER:O	1:D:3156:GLY:N	2.45	0.48
1:D:3285:TYR:HA	1:D:3288:LEU:HD23	1.96	0.48
1:D:4084:VAL:O	1:D:4088:HIS:HB3	2.13	0.48
1:A:15:ARG:HH21	1:A:110:HIS:HB3	1.77	0.48
1:A:1017:THR:O	1:A:1028:ARG:HA	2.13	0.48
1:A:2770:ILE:HG13	1:A:2771:TYR:CD1	2.48	0.48
1:A:3153:SER:O	1:A:3156:GLY:N	2.45	0.48
1:B:15:ARG:HH21	1:B:110:HIS:HB3	1.77	0.48
1:B:895:MET:O	1:B:899:GLU:HG2	2.12	0.48
1:B:1457:PHE:HA	1:B:1461:ARG:HH12	1.78	0.48
1:B:3152:ARG:CZ	1:B:3233:HIS:HA	2.44	0.48
1:C:4265:LYS:O	1:C:4269:LYS:HG2	2.13	0.48
1:D:881:ILE:HG13	1:D:885:LEU:CD2	2.44	0.48
1:D:943:LEU:HD23	1:D:999:LEU:HD21	1.96	0.48
1:A:1790:LYS:O	1:A:1794:MET:HG3	2.13	0.48
1:A:2716:LYS:HD3	1:A:2791:ARG:HG3	1.94	0.48
1:A:4265:LYS:O	1:A:4269:LYS:HG2	2.13	0.48
1:A:4521:LYS:HE3	1:A:4562:GLU:HG3	1.96	0.48
1:B:1564:MET:CE	1:B:1565:PRO:HD2	2.43	0.48
1:B:4943:MET:HG2	1:B:4948:CYS:HB3	1.95	0.48
1:C:2581:ARG:HB2	1:C:2584:MET:HG3	1.96	0.48
1:C:2830:ASN:HB3	1:D:1549:SER:HB2	1.95	0.48
1:C:3285:TYR:HA	1:C:3288:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2944:ASP:O	1:D:2948:ARG:NH1	2.47	0.48
1:D:4654:MET:HE2	1:D:4663:ARG:HH11	1.78	0.48
1:A:3152:ARG:CZ	1:A:3233:HIS:HA	2.44	0.48
1:A:3729:ALA:HA	1:A:3732:HIS:CD2	2.49	0.48
1:B:2918:GLU:HA	1:B:2923:TYR:CD1	2.48	0.48
1:B:3068:LEU:O	1:B:3071:THR:OG1	2.25	0.48
1:B:3729:ALA:HA	1:B:3732:HIS:CD2	2.49	0.48
1:C:881:ILE:HG13	1:C:885:LEU:CD2	2.44	0.48
1:C:2770:ILE:HG13	1:C:2771:TYR:CD1	2.48	0.48
1:D:885:LEU:O	1:D:889:ILE:HG12	2.14	0.48
1:D:2497:ARG:HH22	1:D:2878:THR:HB	1.79	0.48
1:D:3114:GLN:HE22	1:D:3115:HIS:CE1	2.32	0.48
1:D:3230:GLN:N	1:D:3230:GLN:OE1	2.46	0.48
1:D:3298:ARG:HB3	1:D:3302:PHE:HE1	1.79	0.48
1:D:3729:ALA:HA	1:D:3732:HIS:CD2	2.49	0.48
1:D:4113:THR:O	1:D:4117:THR:HG23	2.13	0.48
1:A:1502:ASN:O	1:D:2824:ARG:NH2	2.47	0.48
1:A:2341:ASN:OD1	1:A:2342:GLY:N	2.46	0.48
1:A:2497:ARG:HH22	1:A:2878:THR:HB	1.79	0.48
1:A:2798:MET:SD	1:B:1498:GLN:HG3	2.54	0.48
1:A:3260:ARG:HD2	1:A:3260:ARG:O	2.14	0.48
1:A:3304:GLN:HA	1:A:3307:ILE:HG12	1.95	0.48
1:A:4084:VAL:O	1:A:4088:HIS:HB3	2.13	0.48
1:A:4848:ILE:HD11	1:D:4818:TYR:HD1	1.79	0.48
1:B:1685:LEU:HD22	1:B:1706:LEU:HB2	1.95	0.48
1:B:2341:ASN:OD1	1:B:2342:GLY:N	2.46	0.48
1:B:3270:SER:HA	1:B:3273:MET:CE	2.37	0.48
1:C:842:GLN:HB2	1:C:1603:PHE:HB2	1.96	0.48
1:C:1957:LEU:O	1:C:1961:LYS:HG2	2.14	0.48
1:C:4026:LEU:HD12	1:C:4055:HIS:ND1	2.29	0.48
1:A:842:GLN:HB2	1:A:1603:PHE:HB2	1.96	0.48
1:A:943:LEU:HD23	1:A:999:LEU:HD21	1.96	0.48
1:B:3230:GLN:OE1	1:B:3230:GLN:N	2.46	0.48
1:B:3316:LYS:HE2	1:B:3316:LYS:HB2	1.54	0.48
1:C:2918:GLU:HG3	1:C:2923:TYR:CE1	2.49	0.48
1:C:3152:ARG:CZ	1:C:3233:HIS:HA	2.44	0.48
1:D:981:MET:N	1:D:981:MET:SD	2.86	0.48
1:D:1727:VAL:HG11	1:D:1926:VAL:HG21	1.95	0.48
1:D:2918:GLU:HG3	1:D:2923:TYR:CE1	2.49	0.48
1:D:3325:LYS:O	1:D:3328:LYS:HG2	2.14	0.48
1:D:4689:LYS:HZ3	1:D:4696:ALA:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:986:ILE:HG22	1:A:1055:ARG:NH1	2.29	0.47
1:B:2497:ARG:HH22	1:B:2878:THR:HB	1.79	0.47
1:B:2768:LYS:O	1:B:2772:ARG:HG3	2.14	0.47
1:B:3260:ARG:O	1:B:3260:ARG:HD2	2.14	0.47
1:B:4521:LYS:HE3	1:B:4562:GLU:HG3	1.96	0.47
1:C:943:LEU:HD23	1:C:999:LEU:HD21	1.96	0.47
1:C:3298:ARG:HB3	1:C:3302:PHE:HE1	1.79	0.47
1:C:3304:GLN:HA	1:C:3307:ILE:HG12	1.95	0.47
1:C:3325:LYS:O	1:C:3328:LYS:HG2	2.14	0.47
1:C:3729:ALA:HA	1:C:3732:HIS:CD2	2.49	0.47
1:C:4521:LYS:HE3	1:C:4562:GLU:HG3	1.96	0.47
1:C:4819:VAL:HG12	1:C:4830:GLU:HG3	1.96	0.47
1:D:258:ARG:NH1	1:D:317:MET:HA	2.28	0.47
1:D:986:ILE:HG22	1:D:1055:ARG:NH1	2.29	0.47
1:D:1957:LEU:O	1:D:1961:LYS:HG2	2.14	0.47
1:D:2318:ASN:HB3	1:D:2322:ARG:HH12	1.78	0.47
1:D:2768:LYS:O	1:D:2772:ARG:HG3	2.14	0.47
1:D:3238:ILE:O	1:D:3241:MET:HB2	2.14	0.47
1:A:317:MET:HG2	1:A:321:LYS:HE2	1.96	0.47
1:A:1051:ARG:O	1:A:1055:ARG:HG2	2.13	0.47
1:A:1931:ASP:OD1	1:A:1932:PHE:N	2.47	0.47
1:A:2139:GLU:HG3	1:A:2192:MET:HE3	1.96	0.47
1:A:3114:GLN:HE22	1:A:3115:HIS:CE1	2.32	0.47
1:A:3157:GLU:HG3	1:A:3302:PHE:HZ	1.77	0.47
1:A:4026:LEU:HD12	1:A:4055:HIS:ND1	2.29	0.47
1:B:2716:LYS:HD3	1:B:2791:ARG:HG3	1.94	0.47
1:B:2918:GLU:HG3	1:B:2923:TYR:CE1	2.49	0.47
1:B:4026:LEU:HD12	1:B:4055:HIS:ND1	2.29	0.47
1:C:164:PRO:HB3	1:C:169:ARG:HB2	1.95	0.47
1:C:258:ARG:NH1	1:C:317:MET:HA	2.28	0.47
1:C:1790:LYS:O	1:C:1794:MET:HG3	2.13	0.47
1:C:2768:LYS:O	1:C:2772:ARG:HG3	2.14	0.47
1:C:3172:GLU:OE1	1:C:3266:THR:OG1	2.22	0.47
1:C:3230:GLN:OE1	1:C:3230:GLN:N	2.46	0.47
1:D:3304:GLN:HA	1:D:3307:ILE:HG12	1.95	0.47
1:D:3313:GLN:HA	1:D:3316:LYS:HZ1	1.79	0.47
1:A:4818:TYR:HD1	1:B:4848:ILE:HD11	1.79	0.47
1:B:258:ARG:NH1	1:B:317:MET:HA	2.28	0.47
1:B:317:MET:HG2	1:B:321:LYS:HE2	1.96	0.47
1:B:881:ILE:HG13	1:B:885:LEU:CD2	2.44	0.47
1:B:920:GLU:N	1:B:974:SER:OG	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1931:ASP:OD1	1:B:1932:PHE:N	2.47	0.47
1:B:3250:TRP:CE3	1:B:3268:LEU:HB3	2.50	0.47
1:B:3285:TYR:HA	1:B:3288:LEU:HD23	1.96	0.47
1:B:3313:GLN:HA	1:B:3316:LYS:HZ1	1.79	0.47
1:B:4819:VAL:HG12	1:B:4830:GLU:HG3	1.96	0.47
1:C:986:ILE:HG22	1:C:1055:ARG:NH1	2.29	0.47
1:C:1251:LEU:HD23	1:C:1599:MET:HE2	1.96	0.47
1:C:3187:LYS:O	1:C:3188:SER:OG	2.28	0.47
1:C:3250:TRP:CE3	1:C:3268:LEU:HB3	2.50	0.47
1:A:614:LEU:HD22	1:A:632:ILE:HG12	1.97	0.47
1:A:2705:PRO:HD2	1:A:2854:LYS:HD2	1.97	0.47
1:A:2720:PHE:CE1	1:A:2896:LEU:HA	2.49	0.47
1:A:4640:PHE:CG	1:A:4641:PRO:HD3	2.48	0.47
1:B:514:PHE:CD2	1:B:526:TRP:HB2	2.50	0.47
1:B:885:LEU:O	1:B:889:ILE:HG12	2.14	0.47
1:B:2705:PRO:HD2	1:B:2854:LYS:HD2	1.97	0.47
1:C:3238:ILE:O	1:C:3241:MET:HB2	2.14	0.47
1:D:614:LEU:HD22	1:D:632:ILE:HG12	1.97	0.47
1:D:620:CYS:HG	1:D:621:HIS:HD1	1.62	0.47
1:D:842:GLN:HB2	1:D:1603:PHE:HB2	1.96	0.47
1:D:1941:ARG:NH2	1:D:3609:TYR:HB2	2.27	0.47
1:A:370:LEU:HB2	1:A:393:MET:HE3	1.95	0.47
1:A:394:HIS:CD2	1:A:395:HIS:H	2.33	0.47
1:A:891:GLU:HB3	1:A:978:PRO:HB3	1.97	0.47
1:A:3325:LYS:O	1:A:3328:LYS:HG2	2.14	0.47
1:B:866:PRO:HA	1:B:1009:ARG:NH2	2.28	0.47
1:B:1957:LEU:O	1:B:1961:LYS:HG2	2.14	0.47
1:B:2723:LYS:HG2	1:B:2895:PHE:CZ	2.43	0.47
1:B:2732:TRP:HA	1:B:2735:ASP:OD1	2.15	0.47
1:C:317:MET:HG2	1:C:321:LYS:HE2	1.96	0.47
1:C:3114:GLN:HE22	1:C:3115:HIS:CE1	2.32	0.47
1:C:4084:VAL:O	1:C:4088:HIS:HB3	2.13	0.47
1:D:630:HIS:CE1	1:D:1671:ARG:HE	2.33	0.47
1:D:1457:PHE:HA	1:D:1461:ARG:HH12	1.78	0.47
1:A:514:PHE:CD2	1:A:526:TRP:HB2	2.50	0.47
1:A:885:LEU:O	1:A:889:ILE:HG12	2.14	0.47
1:B:3042:ALA:O	1:B:3046:MET:HG2	2.15	0.47
1:C:1500:ARG:HG3	1:C:1505:LEU:HB2	1.97	0.47
1:C:1714:TYR:CZ	1:C:1761:MET:HB2	2.50	0.47
1:C:1931:ASP:OD1	1:C:1932:PHE:N	2.47	0.47
1:D:2720:PHE:CE1	1:D:2896:LEU:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1446:ILE:HG12	1:A:1542:ALA:HB2	1.96	0.47
1:A:1685:LEU:HD22	1:A:1706:LEU:HB2	1.95	0.47
1:A:1957:LEU:O	1:A:1961:LYS:HG2	2.14	0.47
1:A:3298:ARG:HB3	1:A:3302:PHE:HE1	1.79	0.47
1:A:4765:LYS:HD2	1:A:4765:LYS:HA	1.73	0.47
1:B:394:HIS:CD2	1:B:395:HIS:H	2.33	0.47
1:B:943:LEU:HD23	1:B:999:LEU:HD21	1.96	0.47
1:B:1725:TYR:HE1	1:B:2101:ALA:HB1	1.80	0.47
1:B:2720:PHE:CE1	1:B:2896:LEU:HA	2.49	0.47
1:B:2846:GLU:HB3	1:B:2874:TYR:CD2	2.50	0.47
1:B:2944:ASP:O	1:B:2948:ARG:NH1	2.47	0.47
1:B:3304:GLN:HA	1:B:3307:ILE:HG12	1.96	0.47
1:B:3325:LYS:O	1:B:3328:LYS:HG2	2.14	0.47
1:C:614:LEU:HD22	1:C:632:ILE:HG12	1.97	0.47
1:C:620:CYS:HG	1:C:621:HIS:HD1	1.62	0.47
1:C:1725:TYR:HE1	1:C:2101:ALA:HB1	1.80	0.47
1:C:3042:ALA:O	1:C:3046:MET:HG2	2.15	0.47
1:D:317:MET:HG2	1:D:321:LYS:HE2	1.96	0.47
1:D:394:HIS:CD2	1:D:395:HIS:H	2.33	0.47
1:D:891:GLU:HB3	1:D:978:PRO:HB3	1.97	0.47
1:D:897:LYS:HD3	1:D:902:TRP:HE3	1.80	0.47
1:D:1446:ILE:HG12	1:D:1542:ALA:HB2	1.96	0.47
1:A:2944:ASP:O	1:A:2948:ARG:NH1	2.47	0.47
1:B:614:LEU:HD22	1:B:632:ILE:HG12	1.97	0.47
1:B:891:GLU:HB3	1:B:978:PRO:HB3	1.97	0.47
1:B:1500:ARG:HG3	1:B:1505:LEU:HB2	1.97	0.47
1:B:3114:GLN:HE22	1:B:3115:HIS:CE1	2.32	0.47
1:B:3231:MET:HE3	1:B:3233:HIS:HB2	1.97	0.47
1:B:4683:ARG:NH1	1:B:4684:GLU:O	2.48	0.47
1:C:885:LEU:O	1:C:889:ILE:HG12	2.14	0.47
1:C:2705:PRO:HD2	1:C:2854:LYS:HD2	1.97	0.47
1:C:2732:TRP:HA	1:C:2735:ASP:OD1	2.15	0.47
1:D:920:GLU:OE1	1:D:974:SER:OG	2.25	0.47
1:D:3152:ARG:CZ	1:D:3233:HIS:HA	2.44	0.47
1:D:3250:TRP:CE3	1:D:3268:LEU:HB3	2.50	0.47
1:D:3861:GLN:HB3	1:D:3864:ASN:HD22	1.80	0.47
1:A:2732:TRP:HA	1:A:2735:ASP:OD1	2.15	0.47
1:A:3250:TRP:CE3	1:A:3268:LEU:HB3	2.50	0.47
1:A:3297:LYS:HZ2	1:A:3335:SER:H	1.62	0.47
1:B:986:ILE:HG22	1:B:1055:ARG:NH1	2.29	0.47
1:B:1714:TYR:CZ	1:B:1761:MET:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3238:ILE:O	1:B:3241:MET:HB2	2.14	0.47
1:C:514:PHE:CD2	1:C:526:TRP:HB2	2.50	0.47
1:C:920:GLU:OE1	1:C:974:SER:OG	2.25	0.47
1:C:2497:ARG:HH22	1:C:2878:THR:HB	1.79	0.47
1:C:2944:ASP:O	1:C:2948:ARG:NH1	2.47	0.47
1:D:514:PHE:CD2	1:D:526:TRP:HB2	2.50	0.47
1:D:4521:LYS:HE3	1:D:4562:GLU:HG3	1.96	0.47
1:A:1500:ARG:HG3	1:A:1505:LEU:HB2	1.97	0.47
1:A:1725:TYR:HE1	1:A:2101:ALA:HB1	1.80	0.47
1:A:2801:TYR:OH	1:B:1495:SER:O	2.24	0.47
1:A:3238:ILE:O	1:A:3241:MET:HB2	2.14	0.47
1:A:3250:TRP:O	1:A:3256:ASN:ND2	2.49	0.47
1:B:1979:PHE:CZ	1:B:1996:LEU:HD23	2.50	0.47
1:C:891:GLU:HB3	1:C:978:PRO:HB3	1.97	0.47
1:C:2868:HIS:CD2	1:C:2870:LEU:HB2	2.50	0.47
1:C:4683:ARG:NH1	1:C:4684:GLU:O	2.48	0.47
1:D:1931:ASP:OD1	1:D:1932:PHE:N	2.47	0.47
1:D:4026:LEU:HD12	1:D:4055:HIS:ND1	2.29	0.47
1:A:59:PRO:HG3	1:A:296:ARG:CZ	2.45	0.46
1:A:630:HIS:CE1	1:A:1671:ARG:HE	2.33	0.46
1:A:1979:PHE:CZ	1:A:1996:LEU:HD23	2.50	0.46
1:A:3285:TYR:HA	1:A:3288:LEU:HD23	1.96	0.46
1:B:3298:ARG:HB3	1:B:3302:PHE:HE1	1.79	0.46
1:C:59:PRO:HG3	1:C:296:ARG:CZ	2.46	0.46
1:C:3090:VAL:HA	1:C:3093:ILE:HG12	1.98	0.46
1:C:3861:GLN:HB3	1:C:3864:ASN:HD22	1.80	0.46
1:C:4567:TYR:O	1:C:4570:PRO:HD2	2.15	0.46
1:C:4654:MET:HE2	1:C:4663:ARG:HH11	1.80	0.46
1:D:3316:LYS:O	1:D:3317:THR:OG1	2.31	0.46
1:D:4567:TYR:O	1:D:4570:PRO:HD2	2.15	0.46
1:D:4683:ARG:NH1	1:D:4684:GLU:O	2.48	0.46
1:D:4819:VAL:HG12	1:D:4830:GLU:HG3	1.96	0.46
1:A:2716:LYS:NZ	1:A:2791:ARG:HB2	2.30	0.46
1:B:59:PRO:HG3	1:B:296:ARG:CZ	2.45	0.46
1:B:842:GLN:HB2	1:B:1603:PHE:HB2	1.96	0.46
1:B:3187:LYS:O	1:B:3188:SER:OG	2.28	0.46
1:C:1979:PHE:CZ	1:C:1996:LEU:HD23	2.50	0.46
1:C:2716:LYS:NZ	1:C:2791:ARG:HB2	2.31	0.46
1:C:2720:PHE:CE1	1:C:2896:LEU:HA	2.49	0.46
1:C:4625:ASP:OD1	1:C:4625:ASP:N	2.44	0.46
1:D:258:ARG:HH12	1:D:317:MET:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2167:MET:HE3	1:D:2199:PHE:HZ	1.80	0.46
1:D:2705:PRO:HD2	1:D:2854:LYS:HD2	1.97	0.46
1:D:3250:TRP:O	1:D:3256:ASN:ND2	2.48	0.46
1:A:3042:ALA:O	1:A:3046:MET:HG2	2.15	0.46
1:A:4819:VAL:HG12	1:A:4830:GLU:HG3	1.96	0.46
1:B:630:HIS:CE1	1:B:1671:ARG:HE	2.33	0.46
1:C:3297:LYS:HZ2	1:C:3335:SER:H	1.62	0.46
1:C:3890:TRP:HB3	1:D:76:ARG:HG2	1.97	0.46
1:D:59:PRO:HG3	1:D:296:ARG:CZ	2.45	0.46
1:D:1286:THR:OG1	1:D:1550:PRO:O	2.19	0.46
1:D:1500:ARG:HG3	1:D:1505:LEU:HB2	1.97	0.46
1:D:2732:TRP:HA	1:D:2735:ASP:OD1	2.15	0.46
1:D:2846:GLU:HB3	1:D:2874:TYR:CD2	2.50	0.46
1:D:3042:ALA:O	1:D:3046:MET:HG2	2.15	0.46
2:G:9:SER:HB3	2:G:72:ARG:HB3	1.97	0.46
1:A:897:LYS:HD3	1:A:902:TRP:HE3	1.80	0.46
1:A:1172:THR:HB	1:A:1190:LEU:HD22	1.98	0.46
1:A:2857:LYS:HG2	1:A:2861:GLU:OE2	2.16	0.46
1:A:2925:PHE:HZ	1:A:2970:LEU:HD13	1.80	0.46
1:A:3861:GLN:HB3	1:A:3864:ASN:HD22	1.80	0.46
1:B:1172:THR:HB	1:B:1190:LEU:HD22	1.98	0.46
1:B:4567:TYR:O	1:B:4570:PRO:HD2	2.15	0.46
1:B:4863:GLN:HG2	1:C:4860:ALA:HB2	1.98	0.46
1:C:897:LYS:HD3	1:C:902:TRP:HE3	1.80	0.46
1:C:3072:MET:HE2	1:C:3072:MET:HB2	1.71	0.46
1:D:1714:TYR:CZ	1:D:1761:MET:HB2	2.50	0.46
1:D:3297:LYS:HZ2	1:D:3335:SER:H	1.61	0.46
2:H:9:SER:HB3	2:H:72:ARG:HB3	1.97	0.46
1:A:2926:LEU:HD21	1:A:2975:PHE:HZ	1.81	0.46
1:B:2857:LYS:HG2	1:B:2861:GLU:OE2	2.16	0.46
1:C:28:ILE:O	1:C:31:GLU:HG3	2.15	0.46
1:C:1172:THR:HB	1:C:1190:LEU:HD22	1.98	0.46
1:C:2846:GLU:HB3	1:C:2874:TYR:CD2	2.50	0.46
1:D:317:MET:HE2	1:D:317:MET:HB2	1.69	0.46
1:D:776:GLN:HG2	1:D:1472:GLU:HA	1.98	0.46
1:D:1725:TYR:HE1	1:D:2101:ALA:HB1	1.80	0.46
1:D:2857:LYS:HG2	1:D:2861:GLU:OE2	2.16	0.46
2:F:50:ARG:N	2:F:55:GLU:OE1	2.42	0.46
1:A:1682:GLU:HB3	1:A:1683:PRO:HD3	1.97	0.46
1:B:28:ILE:O	1:B:31:GLU:HG3	2.15	0.46
1:B:1682:GLU:HB3	1:B:1683:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:394:HIS:CD2	1:C:395:HIS:H	2.33	0.46
1:C:2772:ARG:O	1:C:2776:LYS:HG3	2.16	0.46
1:C:2925:PHE:HZ	1:C:2970:LEU:HD13	1.80	0.46
1:D:1172:THR:HB	1:D:1190:LEU:HD22	1.98	0.46
1:D:2716:LYS:NZ	1:D:2791:ARG:HB2	2.31	0.46
1:A:2846:GLU:HB3	1:A:2874:TYR:CD2	2.50	0.46
1:B:2776:LYS:HB3	1:B:2780:LYS:NZ	2.31	0.46
1:B:3250:TRP:O	1:B:3256:ASN:ND2	2.48	0.46
1:B:3861:GLN:HB3	1:B:3864:ASN:HD22	1.80	0.46
1:C:801:ARG:NH1	1:C:1615:GLN:O	2.40	0.46
1:C:3250:TRP:O	1:C:3256:ASN:ND2	2.49	0.46
1:D:441:LYS:HD2	1:D:442:ALA:H	1.81	0.46
1:D:1241:VAL:HG12	1:D:1807:ARG:HH12	1.81	0.46
1:D:2620:TYR:HB2	1:D:2627:TRP:HD1	1.81	0.46
1:D:2868:HIS:CD2	1:D:2870:LEU:HB2	2.50	0.46
1:D:2925:PHE:HZ	1:D:2970:LEU:HD13	1.80	0.46
2:F:9:SER:HB3	2:F:72:ARG:HB3	1.97	0.46
1:A:28:ILE:HG22	1:A:29:HIS:CD2	2.51	0.46
1:A:776:GLN:HG2	1:A:1472:GLU:HA	1.98	0.46
1:A:1714:TYR:CE2	1:A:1718:ARG:HD2	2.51	0.46
1:B:28:ILE:HG22	1:B:29:HIS:CD2	2.51	0.46
1:B:4689:LYS:NZ	1:B:4696:ALA:HB2	2.31	0.46
1:C:630:HIS:CE1	1:C:1671:ARG:HE	2.33	0.46
1:C:3692:ALA:HA	1:C:3695:MET:HE3	1.98	0.46
1:D:3090:VAL:HA	1:D:3093:ILE:HG12	1.98	0.46
1:D:3231:MET:HE3	1:D:3233:HIS:HB2	1.97	0.46
2:H:50:ARG:N	2:H:55:GLU:OE1	2.42	0.46
1:A:1714:TYR:CZ	1:A:1761:MET:HB2	2.50	0.46
1:A:4683:ARG:NH1	1:A:4684:GLU:O	2.48	0.46
1:A:4831:ILE:HG13	1:A:4843:ARG:NH2	2.31	0.46
1:B:2716:LYS:NZ	1:B:2791:ARG:HB2	2.31	0.46
1:B:2975:PHE:O	1:B:2979:ARG:HB3	2.16	0.46
1:B:3090:VAL:HA	1:B:3093:ILE:HG12	1.98	0.46
1:C:258:ARG:HH12	1:C:317:MET:HA	1.80	0.46
1:C:2620:TYR:HB2	1:C:2627:TRP:HD1	1.81	0.46
1:C:4827:ILE:O	1:C:4831:ILE:HG12	2.16	0.46
1:D:1682:GLU:HB3	1:D:1683:PRO:HD3	1.97	0.46
1:D:3692:ALA:HA	1:D:3695:MET:HE3	1.98	0.46
1:A:2481:GLN:NE2	1:A:2537:GLY:O	2.42	0.46
1:B:441:LYS:HD2	1:B:442:ALA:H	1.81	0.46
1:B:2772:ARG:O	1:B:2776:LYS:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4827:ILE:O	1:B:4831:ILE:HG12	2.16	0.46
1:C:441:LYS:HD2	1:C:442:ALA:H	1.81	0.46
1:C:1241:VAL:HG12	1:C:1807:ARG:HH12	1.81	0.46
1:C:1682:GLU:HB3	1:C:1683:PRO:HD3	1.97	0.46
1:C:2857:LYS:HG2	1:C:2861:GLU:OE2	2.16	0.46
1:D:28:ILE:O	1:D:31:GLU:HG3	2.15	0.46
1:D:235:ARG:NH2	1:D:412:GLU:OE2	2.27	0.46
1:D:808:HIS:O	1:D:1616:GLY:HA2	2.16	0.46
1:D:997:ASP:HA	1:D:1047:LYS:HZ2	1.80	0.46
1:D:3981:MET:HE3	1:D:3981:MET:HB3	1.90	0.46
1:A:28:ILE:O	1:A:31:GLU:HG3	2.15	0.45
1:A:258:ARG:HH12	1:A:317:MET:HA	1.80	0.45
1:A:997:ASP:HA	1:A:1047:LYS:HZ2	1.79	0.45
1:A:4567:TYR:O	1:A:4570:PRO:HD2	2.15	0.45
1:B:1714:TYR:CE2	1:B:1718:ARG:HD2	2.51	0.45
1:B:2167:MET:HE3	1:B:2199:PHE:HZ	1.80	0.45
1:B:2926:LEU:HD21	1:B:2975:PHE:HZ	1.81	0.45
1:C:1714:TYR:CE2	1:C:1718:ARG:HD2	2.51	0.45
1:C:2445:ILE:HA	1:C:2451:VAL:HA	1.98	0.45
1:C:4689:LYS:NZ	1:C:4696:ALA:HB2	2.31	0.45
1:D:749:LEU:HD22	1:D:755:ILE:HD11	1.98	0.45
1:D:1444:GLY:HA3	1:D:1487:MET:HA	1.98	0.45
1:A:713:TRP:CE2	1:A:1600:PRO:HD3	2.52	0.45
1:A:808:HIS:O	1:A:1616:GLY:HA2	2.16	0.45
1:A:1241:VAL:HG12	1:A:1807:ARG:HH12	1.81	0.45
1:A:2957:GLU:HA	1:A:2960:ILE:HG22	1.98	0.45
1:A:2966:VAL:HG12	1:A:2970:LEU:HD23	1.99	0.45
1:A:4827:ILE:O	1:A:4831:ILE:HG12	2.16	0.45
1:B:713:TRP:CE2	1:B:1600:PRO:HD3	2.52	0.45
1:B:3076:LYS:NZ	1:B:3140:LEU:HD23	2.31	0.45
1:C:1444:GLY:HA3	1:C:1487:MET:HA	1.99	0.45
1:C:3122:ILE:HG12	1:C:3127:GLN:HG2	1.99	0.45
1:D:3323:MET:HB3	1:D:3327:LYS:HZ3	1.79	0.45
1:D:4831:ILE:HG13	1:D:4843:ARG:NH2	2.31	0.45
1:A:2670:SER:HB2	1:A:2973:GLN:HG2	1.98	0.45
1:A:2975:PHE:O	1:A:2979:ARG:HB3	2.16	0.45
1:B:1241:VAL:HG12	1:B:1807:ARG:HH12	1.81	0.45
1:C:606:ARG:HH21	1:C:1633:PRO:HD2	1.82	0.45
1:C:808:HIS:O	1:C:1616:GLY:HA2	2.16	0.45
1:C:2353:ILE:HG12	1:C:2359:ARG:HE	1.82	0.45
1:C:2975:PHE:O	1:C:2979:ARG:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3076:LYS:NZ	1:C:3140:LEU:HD23	2.31	0.45
1:C:3187:LYS:HZ2	1:C:3191:GLU:HB3	1.81	0.45
1:D:1979:PHE:CZ	1:D:1996:LEU:HD23	2.51	0.45
1:D:3076:LYS:NZ	1:D:3140:LEU:HD23	2.31	0.45
1:A:198:ASN:OD1	1:A:199:GLY:N	2.50	0.45
1:A:2776:LYS:HB3	1:A:2780:LYS:NZ	2.31	0.45
1:A:3692:ALA:HA	1:A:3695:MET:HE3	1.97	0.45
1:A:3939:ARG:NH1	1:B:173:GLU:HG2	2.32	0.45
1:B:897:LYS:HD3	1:B:902:TRP:HE3	1.80	0.45
1:B:1043:LYS:O	1:B:1047:LYS:HB2	2.17	0.45
1:B:1444:GLY:HA3	1:B:1487:MET:HA	1.99	0.45
1:B:2353:ILE:HG12	1:B:2359:ARG:HE	1.82	0.45
1:C:713:TRP:CE2	1:C:1600:PRO:HD3	2.52	0.45
1:C:2926:LEU:HD21	1:C:2975:PHE:HZ	1.80	0.45
1:C:4874:ARG:NH1	1:D:4868:ASP:OD1	2.50	0.45
1:D:29:HIS:CE1	1:D:31:GLU:HG2	2.52	0.45
1:D:1031:ARG:HH11	1:D:1042:THR:HG21	1.81	0.45
1:D:1957:LEU:HA	1:D:1960:ARG:CZ	2.47	0.45
1:D:2772:ARG:O	1:D:2776:LYS:HG3	2.16	0.45
1:D:2926:LEU:HD21	1:D:2975:PHE:HZ	1.81	0.45
1:A:1957:LEU:HA	1:A:1960:ARG:CZ	2.47	0.45
1:A:3025:ASP:O	1:A:3029:ILE:HD12	2.17	0.45
1:A:3076:LYS:NZ	1:A:3140:LEU:HD23	2.31	0.45
1:B:258:ARG:HH12	1:B:317:MET:HA	1.80	0.45
1:B:907:VAL:HG11	1:B:912:LYS:HD3	1.98	0.45
1:B:2674:GLY:HA2	1:B:2978:HIS:CE1	2.52	0.45
1:B:4906:GLU:OE1	1:C:4183:LYS:HE3	2.17	0.45
1:C:2326:ARG:HD3	1:C:2326:ARG:HA	1.76	0.45
1:C:3025:ASP:O	1:C:3029:ILE:HD12	2.17	0.45
1:D:661:LEU:HD13	1:D:673:TRP:CD1	2.52	0.45
1:D:713:TRP:CE2	1:D:1600:PRO:HD3	2.52	0.45
1:D:2445:ILE:HA	1:D:2451:VAL:HA	1.98	0.45
1:D:2776:LYS:HB3	1:D:2780:LYS:NZ	2.31	0.45
1:D:2975:PHE:O	1:D:2979:ARG:HB3	2.16	0.45
1:D:3025:ASP:O	1:D:3029:ILE:HD12	2.17	0.45
1:D:3316:LYS:HE2	1:D:3316:LYS:HB2	1.53	0.45
1:A:2620:TYR:HB2	1:A:2627:TRP:HD1	1.81	0.45
1:A:2772:ARG:O	1:A:2776:LYS:HG3	2.16	0.45
1:A:3231:MET:HE3	1:A:3233:HIS:HB2	1.99	0.45
1:B:749:LEU:HD22	1:B:755:ILE:HD11	1.98	0.45
1:B:897:LYS:HE2	1:B:917:CYS:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2620:TYR:HB2	1:B:2627:TRP:HD1	1.81	0.45
1:B:2957:GLU:HA	1:B:2960:ILE:HG22	1.98	0.45
1:C:2776:LYS:HB3	1:C:2780:LYS:NZ	2.31	0.45
1:D:4667:SER:OG	1:D:4672:MET:O	2.34	0.45
1:A:712:GLU:OE1	1:A:1086:ARG:NH2	2.39	0.45
1:A:3122:ILE:HG12	1:A:3127:GLN:HG2	1.99	0.45
1:A:4262:LYS:HE3	1:B:4698:LEU:HD22	1.99	0.45
1:B:776:GLN:HG2	1:B:1472:GLU:HA	1.98	0.45
1:B:2670:SER:HB2	1:B:2973:GLN:HG2	1.99	0.45
1:B:4831:ILE:HG13	1:B:4843:ARG:NH2	2.31	0.45
1:C:997:ASP:HA	1:C:1047:LYS:HZ2	1.81	0.45
1:D:2670:SER:HB2	1:D:2973:GLN:HG2	1.98	0.45
1:D:3796:LEU:HD22	1:D:3835:PHE:HZ	1.82	0.45
1:A:271:ALA:HB2	1:A:488:LEU:HD22	1.99	0.45
1:A:674:TYR:CE1	1:A:756:SER:HB2	2.52	0.45
1:A:1444:GLY:HA3	1:A:1487:MET:HA	1.99	0.45
1:A:1500:ARG:HG3	1:A:1505:LEU:H	1.82	0.45
1:A:2868:HIS:CD2	1:A:2870:LEU:HB2	2.50	0.45
1:A:3042:ALA:HB3	1:A:3117:PHE:HD2	1.82	0.45
1:A:4795:LYS:HD2	1:A:4795:LYS:HA	1.81	0.45
1:B:674:TYR:CE1	1:B:756:SER:HB2	2.52	0.45
1:B:801:ARG:NH1	1:B:1615:GLN:O	2.40	0.45
1:B:1500:ARG:HG3	1:B:1505:LEU:H	1.82	0.45
1:B:2724:TYR:CD1	1:B:2895:PHE:HD1	2.35	0.45
1:C:756:SER:OG	1:C:769:ARG:HB2	2.17	0.45
1:C:776:GLN:HG2	1:C:1472:GLU:HA	1.98	0.45
1:C:2957:GLU:HA	1:C:2960:ILE:HG22	1.98	0.45
1:D:907:VAL:HG11	1:D:912:LYS:HD3	1.98	0.45
1:D:2353:ILE:HG12	1:D:2359:ARG:HE	1.82	0.45
1:D:2782:MET:HG2	1:D:2787:TRP:HE3	1.82	0.45
2:G:18:LYS:NZ	2:G:18:LYS:HB3	2.32	0.45
1:A:3090:VAL:HA	1:A:3093:ILE:HG12	1.98	0.45
1:A:3741:LEU:HD11	1:A:3777:MET:HG2	1.99	0.45
1:A:3796:LEU:HD22	1:A:3835:PHE:HZ	1.82	0.45
2:E:18:LYS:NZ	2:E:18:LYS:HB3	2.32	0.45
1:B:2445:ILE:HA	1:B:2451:VAL:HA	1.98	0.45
1:B:2868:HIS:CD2	1:B:2870:LEU:HB2	2.50	0.45
1:B:3042:ALA:HB3	1:B:3117:PHE:HD2	1.82	0.45
1:B:4055:HIS:CD2	1:B:4057:HIS:ND1	2.85	0.45
1:B:4654:MET:HE2	1:B:4663:ARG:HH11	1.82	0.45
1:B:4667:SER:OG	1:B:4672:MET:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:GLU:OE2	1:C:122:ARG:HD3	2.17	0.45
1:C:1144:ARG:HB3	1:C:1152:TYR:HB3	1.99	0.45
1:C:2674:GLY:HA2	1:C:2978:HIS:CE1	2.52	0.45
1:C:3316:LYS:O	1:C:3317:THR:OG1	2.31	0.45
1:D:1714:TYR:CE2	1:D:1718:ARG:HD2	2.51	0.45
1:D:4897:TYR:OH	1:D:4963:GLU:OE2	2.32	0.45
1:A:2758:LYS:HE2	1:A:2763:LEU:HA	1.99	0.45
1:A:4054:SER:O	1:A:4056:LYS:HG3	2.17	0.45
1:B:606:ARG:HH21	1:B:1633:PRO:HD2	1.82	0.45
1:B:808:HIS:O	1:B:1616:GLY:HA2	2.16	0.45
1:B:950:VAL:HA	1:B:1064:LEU:HA	1.99	0.45
1:B:1031:ARG:HH11	1:B:1042:THR:HG21	1.81	0.45
1:B:2481:GLN:NE2	1:B:2537:GLY:O	2.42	0.45
1:B:2925:PHE:HZ	1:B:2970:LEU:HD13	1.80	0.45
1:B:3796:LEU:HD22	1:B:3835:PHE:HZ	1.82	0.45
1:C:29:HIS:CE1	1:C:31:GLU:HG2	2.52	0.45
1:C:1031:ARG:HH11	1:C:1042:THR:HG21	1.81	0.45
1:C:2724:TYR:CD1	1:C:2895:PHE:HD1	2.35	0.45
1:D:801:ARG:NH1	1:D:1615:GLN:O	2.40	0.45
1:D:826:VAL:HG21	1:D:832:LEU:HB2	1.99	0.45
1:D:1144:ARG:HB3	1:D:1152:TYR:HB3	1.99	0.45
1:D:1785:ASP:OD1	1:D:1786:ILE:N	2.48	0.45
1:D:3122:ILE:HG12	1:D:3127:GLN:HG2	1.99	0.45
1:D:4827:ILE:O	1:D:4831:ILE:HG12	2.16	0.45
2:G:50:ARG:N	2:G:55:GLU:OE1	2.42	0.45
1:A:29:HIS:CE1	1:A:31:GLU:HG2	2.52	0.44
1:A:441:LYS:HD2	1:A:442:ALA:H	1.81	0.44
1:A:2353:ILE:HG12	1:A:2359:ARG:HE	1.82	0.44
1:A:2674:GLY:HA2	1:A:2978:HIS:CE1	2.52	0.44
1:A:4607:ALA:HB1	1:A:4649:VAL:HG21	1.99	0.44
1:B:661:LEU:HD13	1:B:673:TRP:CD1	2.52	0.44
1:B:2966:VAL:HG12	1:B:2970:LEU:HD23	1.99	0.44
1:C:28:ILE:HG22	1:C:29:HIS:CD2	2.51	0.44
1:C:370:LEU:HB2	1:C:393:MET:CE	2.47	0.44
1:C:749:LEU:HD22	1:C:755:ILE:HD11	1.98	0.44
1:C:826:VAL:HG21	1:C:832:LEU:HB2	1.99	0.44
1:C:1007:TRP:HE1	1:C:1011:ARG:NH1	2.16	0.44
1:C:3062:ASP:O	1:C:3066:GLU:OE1	2.35	0.44
1:C:3830:LEU:HB3	1:C:3833:ASP:OD2	2.18	0.44
1:C:4055:HIS:CD2	1:C:4057:HIS:ND1	2.85	0.44
1:C:4667:SER:OG	1:C:4672:MET:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:45:LYS:HA	2:G:46:PRO:HD3	1.82	0.44
1:A:661:LEU:HD13	1:A:673:TRP:CD1	2.52	0.44
1:A:2445:ILE:HA	1:A:2451:VAL:HA	1.98	0.44
1:A:4689:LYS:NZ	1:A:4696:ALA:HB2	2.31	0.44
1:B:2965:LYS:HA	1:B:2965:LYS:HD3	1.80	0.44
1:B:3062:ASP:O	1:B:3066:GLU:OE1	2.35	0.44
1:C:674:TYR:CE1	1:C:756:SER:HB2	2.52	0.44
1:C:2758:LYS:HE2	1:C:2763:LEU:HA	1.99	0.44
1:C:3323:MET:HB3	1:C:3327:LYS:HZ1	1.81	0.44
1:C:3796:LEU:HD22	1:C:3835:PHE:HZ	1.82	0.44
1:D:70:GLU:OE2	1:D:122:ARG:HD3	2.17	0.44
1:D:3044:THR:HA	1:D:3047:LYS:HZ3	1.82	0.44
1:D:3830:LEU:HB3	1:D:3833:ASP:OD2	2.18	0.44
2:F:18:LYS:NZ	2:F:18:LYS:HB3	2.32	0.44
2:H:18:LYS:NZ	2:H:18:LYS:HB3	2.32	0.44
1:A:537:LEU:O	1:A:541:ILE:HG12	2.18	0.44
1:A:756:SER:OG	1:A:769:ARG:HB2	2.17	0.44
1:A:881:ILE:HD12	1:A:884:LYS:HZ3	1.82	0.44
1:A:1043:LYS:O	1:A:1047:LYS:HB2	2.17	0.44
1:A:2724:TYR:CD1	1:A:2895:PHE:HD1	2.35	0.44
1:A:3313:GLN:HA	1:A:3316:LYS:HZ1	1.82	0.44
2:E:9:SER:HB3	2:E:72:ARG:HB3	1.97	0.44
1:B:1785:ASP:OD1	1:B:1786:ILE:N	2.48	0.44
1:B:3044:THR:HA	1:B:3047:LYS:NZ	2.32	0.44
1:B:3830:LEU:HB3	1:B:3833:ASP:OD2	2.18	0.44
1:C:1043:LYS:O	1:C:1047:LYS:HB2	2.17	0.44
1:D:2884:LYS:HD2	1:D:2885:ASP:N	2.33	0.44
2:F:12:ASP:OD1	2:F:13:GLY:N	2.51	0.44
1:A:370:LEU:HB2	1:A:393:MET:CE	2.48	0.44
1:A:749:LEU:HD22	1:A:755:ILE:HD11	1.98	0.44
1:A:907:VAL:HG11	1:A:912:LYS:HD3	1.98	0.44
1:A:1697:LEU:HD23	1:A:1697:LEU:HA	1.87	0.44
1:A:3044:THR:HA	1:A:3047:LYS:NZ	2.32	0.44
1:A:3882:GLN:NE2	1:A:3946:GLY:HA3	2.32	0.44
1:A:4056:LYS:HE3	1:B:4660:PHE:O	2.17	0.44
1:B:70:GLU:OE2	1:B:122:ARG:HD3	2.17	0.44
1:B:756:SER:OG	1:B:769:ARG:HB2	2.17	0.44
1:B:881:ILE:HD12	1:B:884:LYS:HZ3	1.82	0.44
1:B:4054:SER:O	1:B:4056:LYS:HG3	2.17	0.44
1:C:235:ARG:NH2	1:C:412:GLU:OE2	2.27	0.44
1:C:537:LEU:O	1:C:541:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:897:LYS:HE2	1:C:917:CYS:HB3	1.99	0.44
1:C:963:LYS:NZ	1:C:979:ALA:HB3	2.33	0.44
1:C:2139:GLU:HG3	1:C:2192:MET:HE3	1.99	0.44
1:D:28:ILE:HG22	1:D:29:HIS:CD2	2.51	0.44
1:D:370:LEU:HB2	1:D:393:MET:CE	2.47	0.44
1:D:537:LEU:O	1:D:541:ILE:HG12	2.18	0.44
1:D:606:ARG:HH21	1:D:1633:PRO:HD2	1.82	0.44
1:D:1991:GLU:HG2	1:D:1992:ILE:N	2.32	0.44
1:D:2139:GLU:HG3	1:D:2192:MET:HE3	1.98	0.44
1:D:3044:THR:HA	1:D:3047:LYS:NZ	2.32	0.44
1:A:962:LYS:NZ	1:A:982:ASP:H	2.16	0.44
1:A:1031:ARG:HH11	1:A:1042:THR:HG21	1.81	0.44
1:A:1991:GLU:HG2	1:A:1992:ILE:N	2.32	0.44
1:A:2826:ILE:HG23	1:B:1501:ASN:O	2.17	0.44
1:A:3184:TYR:CE1	1:A:3197:LEU:HD21	2.53	0.44
1:B:962:LYS:NZ	1:B:982:ASP:H	2.16	0.44
1:B:997:ASP:HA	1:B:1047:LYS:HZ2	1.83	0.44
1:B:1957:LEU:HA	1:B:1960:ARG:CZ	2.47	0.44
1:B:2884:LYS:HD2	1:B:2885:ASP:N	2.33	0.44
1:C:200:SER:O	1:C:202:HIS:HD2	2.01	0.44
1:C:661:LEU:HD13	1:C:673:TRP:CD1	2.52	0.44
1:C:1848:PRO:HG3	1:C:1890:LYS:HD2	2.00	0.44
1:C:3178:HIS:CE1	1:C:3263:MET:HA	2.53	0.44
1:C:4194:GLU:HG2	1:C:4645:TRP:HZ3	1.82	0.44
1:D:897:LYS:HE2	1:D:917:CYS:HB3	1.99	0.44
1:D:2397:ASP:O	1:D:2401:ARG:HG3	2.18	0.44
1:D:2957:GLU:HA	1:D:2960:ILE:HG22	1.98	0.44
1:D:3184:TYR:CE1	1:D:3197:LEU:HD21	2.53	0.44
1:D:3321:PRO:HA	1:D:3324:GLU:HG2	2.00	0.44
1:D:4054:SER:O	1:D:4056:LYS:HG3	2.17	0.44
1:D:4055:HIS:CD2	1:D:4057:HIS:ND1	2.85	0.44
1:D:4795:LYS:HD2	1:D:4795:LYS:HA	1.81	0.44
1:A:70:GLU:OE2	1:A:122:ARG:HD3	2.17	0.44
1:A:826:VAL:HG21	1:A:832:LEU:HB2	1.99	0.44
1:A:1572:LYS:HD2	1:A:1572:LYS:N	2.33	0.44
1:A:2884:LYS:HD2	1:A:2885:ASP:N	2.33	0.44
1:A:4294:LEU:HD22	1:B:4719:PHE:CE2	2.52	0.44
2:E:50:ARG:N	2:E:55:GLU:OE1	2.42	0.44
1:B:370:LEU:HB2	1:B:393:MET:CE	2.48	0.44
1:B:1007:TRP:HE1	1:B:1011:ARG:NH1	2.16	0.44
1:B:1991:GLU:HG2	1:B:1992:ILE:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2758:LYS:HE2	1:B:2763:LEU:HA	2.00	0.44
1:B:2782:MET:HG2	1:B:2787:TRP:HE3	1.82	0.44
1:B:3025:ASP:O	1:B:3029:ILE:HD12	2.17	0.44
1:B:3102:LEU:HB2	1:B:3103:PRO:HD3	2.00	0.44
1:B:3187:LYS:HZ3	1:B:3191:GLU:HB3	1.83	0.44
1:B:3981:MET:HE3	1:B:3981:MET:HB3	1.89	0.44
1:B:4607:ALA:HB1	1:B:4649:VAL:HG21	1.99	0.44
1:C:317:MET:HE2	1:C:317:MET:HB2	1.72	0.44
1:C:890:HIS:NE2	1:C:924:LEU:HD22	2.33	0.44
1:C:907:VAL:HG11	1:C:912:LYS:HD3	1.98	0.44
1:C:950:VAL:HA	1:C:1064:LEU:HA	1.99	0.44
1:C:1941:ARG:NH2	1:C:3609:TYR:HB2	2.27	0.44
1:C:3215:MET:CE	1:C:3215:MET:HA	2.48	0.44
1:D:115:TYR:CG	1:D:164:PRO:HG3	2.53	0.44
1:D:271:ALA:HB2	1:D:488:LEU:HD22	1.99	0.44
1:D:1293:GLN:O	1:D:1294:ASN:HB3	2.18	0.44
1:D:2674:GLY:HA2	1:D:2978:HIS:CE1	2.52	0.44
1:D:2758:LYS:HE2	1:D:2763:LEU:HA	2.00	0.44
2:G:12:ASP:OD1	2:G:13:GLY:N	2.51	0.44
2:G:25:VAL:HG12	2:G:104:LEU:HA	2.00	0.44
2:H:12:ASP:OD1	2:H:13:GLY:N	2.51	0.44
2:H:19:LYS:HB2	2:H:19:LYS:HE3	1.80	0.44
1:A:963:LYS:NZ	1:A:979:ALA:HB3	2.33	0.44
1:A:1293:GLN:O	1:A:1294:ASN:HB3	2.18	0.44
1:A:3062:ASP:O	1:A:3066:GLU:OE1	2.35	0.44
1:A:4055:HIS:CD2	1:A:4057:HIS:ND1	2.85	0.44
1:A:4667:SER:OG	1:A:4672:MET:O	2.34	0.44
2:E:12:ASP:OD1	2:E:13:GLY:N	2.51	0.44
1:B:537:LEU:O	1:B:541:ILE:HG12	2.18	0.44
1:B:1293:GLN:O	1:B:1294:ASN:HB3	2.18	0.44
1:B:2397:ASP:O	1:B:2401:ARG:HG3	2.18	0.44
1:B:3741:LEU:HD11	1:B:3777:MET:HG2	1.99	0.44
1:C:718:VAL:HG13	1:C:724:SER:OG	2.18	0.44
1:C:2397:ASP:O	1:C:2401:ARG:HG3	2.18	0.44
1:C:2670:SER:HB2	1:C:2973:GLN:HG2	1.98	0.44
1:C:3042:ALA:HB3	1:C:3117:PHE:HD2	1.82	0.44
1:D:756:SER:OG	1:D:769:ARG:HB2	2.17	0.44
1:D:890:HIS:NE2	1:D:924:LEU:HD22	2.33	0.44
1:D:963:LYS:NZ	1:D:979:ALA:HB3	2.33	0.44
1:D:1415:ASP:OD2	1:D:1559:ARG:NH2	2.51	0.44
1:D:2318:ASN:HB3	1:D:2322:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3042:ALA:HB3	1:D:3117:PHE:HD2	1.82	0.44
1:D:3062:ASP:O	1:D:3066:GLU:OE1	2.35	0.44
1:D:3741:LEU:HD11	1:D:3777:MET:HG2	1.99	0.44
1:D:4194:GLU:HG2	1:D:4645:TRP:HZ3	1.82	0.44
1:D:4689:LYS:NZ	1:D:4696:ALA:HB2	2.31	0.44
1:A:1074:ARG:HD3	1:A:1078:CYS:HB2	2.00	0.44
1:B:115:TYR:CG	1:B:164:PRO:HG3	2.52	0.44
1:B:1572:LYS:N	1:B:1572:LYS:HD2	2.33	0.44
1:B:3297:LYS:HE2	1:B:3297:LYS:HA	2.00	0.44
1:B:4084:VAL:O	1:B:4088:HIS:HB2	2.18	0.44
1:C:962:LYS:NZ	1:C:982:ASP:H	2.16	0.44
1:C:1074:ARG:HD3	1:C:1078:CYS:HB2	2.00	0.44
1:C:3044:THR:HA	1:C:3047:LYS:NZ	2.32	0.44
1:C:3882:GLN:NE2	1:C:3946:GLY:HA3	2.32	0.44
1:C:4795:LYS:HA	1:C:4795:LYS:HD2	1.81	0.44
1:D:306:LEU:HA	1:D:316:LEU:HD23	2.00	0.44
1:D:1043:LYS:O	1:D:1047:LYS:HB2	2.17	0.44
1:D:1572:LYS:HD2	1:D:1572:LYS:N	2.33	0.44
1:D:2966:VAL:HG12	1:D:2970:LEU:HD23	1.99	0.44
1:D:3304:GLN:OE1	1:D:3308:ASN:ND2	2.47	0.44
1:D:4023:LEU:HG	1:D:4084:VAL:HG12	1.99	0.44
1:A:3026:ALA:O	1:A:3030:VAL:HG23	2.18	0.44
1:A:3118:GLY:O	1:A:3122:ILE:HG22	2.18	0.44
1:A:3304:GLN:OE1	1:A:3308:ASN:ND2	2.48	0.44
1:A:3830:LEU:HB3	1:A:3833:ASP:OD2	2.18	0.44
1:B:1711:LEU:HB3	1:B:1831:MET:SD	2.58	0.44
1:B:1718:ARG:HD3	1:B:1831:MET:HA	2.00	0.44
1:B:3122:ILE:HG12	1:B:3127:GLN:HG2	1.99	0.44
1:B:3178:HIS:CE1	1:B:3263:MET:HA	2.53	0.44
1:C:712:GLU:OE1	1:C:1086:ARG:NH2	2.39	0.44
1:C:801:ARG:HG2	1:C:1618:LEU:HA	2.00	0.44
1:C:2954:PHE:CE2	1:C:2956:TYR:HB2	2.53	0.44
1:C:2966:VAL:HG12	1:C:2970:LEU:HD23	1.99	0.44
1:C:3017:HIS:O	1:C:3018:ARG:HD3	2.18	0.44
1:C:3297:LYS:HA	1:C:3297:LYS:HE2	2.00	0.44
1:C:4831:ILE:HG13	1:C:4843:ARG:NH2	2.31	0.44
1:C:4867:ILE:HG12	1:D:4864:GLY:HA2	2.00	0.44
1:D:1007:TRP:HE1	1:D:1011:ARG:NH1	2.16	0.44
1:D:1500:ARG:HG3	1:D:1505:LEU:H	1.82	0.44
1:D:3215:MET:HA	1:D:3215:MET:CE	2.48	0.44
2:F:45:LYS:HA	2:F:46:PRO:HD3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:25:VAL:HG12	2:H:104:LEU:HA	2.00	0.44
1:A:950:VAL:HA	1:A:1064:LEU:HA	1.99	0.43
1:A:1304:LEU:HD23	1:A:1304:LEU:HA	1.84	0.43
1:A:2332:GLY:O	1:A:2336:ARG:HG3	2.18	0.43
1:A:4194:GLU:HG2	1:A:4645:TRP:HZ3	1.82	0.43
1:B:306:LEU:HA	1:B:316:LEU:HD23	2.00	0.43
1:B:718:VAL:HG13	1:B:724:SER:OG	2.18	0.43
1:B:2332:GLY:O	1:B:2336:ARG:HG3	2.18	0.43
1:B:3215:MET:HA	1:B:3215:MET:CE	2.48	0.43
1:C:198:ASN:OD1	1:C:199:GLY:N	2.50	0.43
1:C:505:LEU:HD23	1:C:505:LEU:HA	1.85	0.43
1:C:1711:LEU:HB3	1:C:1831:MET:SD	2.58	0.43
1:C:1957:LEU:HA	1:C:1960:ARG:CZ	2.47	0.43
1:C:1991:GLU:HG2	1:C:1992:ILE:N	2.32	0.43
1:C:2884:LYS:HD2	1:C:2885:ASP:N	2.33	0.43
1:D:674:TYR:CE1	1:D:756:SER:HB2	2.52	0.43
1:D:718:VAL:HG13	1:D:724:SER:OG	2.18	0.43
1:D:1074:ARG:HH11	1:D:1078:CYS:H	1.66	0.43
1:D:1848:PRO:HG3	1:D:1890:LYS:HD2	2.00	0.43
1:D:4036:ASP:OD1	1:D:4040:LYS:NZ	2.52	0.43
2:F:25:VAL:HG12	2:F:104:LEU:HA	2.00	0.43
1:A:718:VAL:HG13	1:A:724:SER:OG	2.18	0.43
1:A:1144:ARG:HB3	1:A:1152:TYR:HB3	1.99	0.43
1:A:1435:GLY:H	1:A:1500:ARG:HH12	1.66	0.43
1:A:1711:LEU:HB3	1:A:1831:MET:SD	2.58	0.43
1:A:1898:LEU:HD23	1:A:1902:VAL:HG12	2.00	0.43
1:A:2832:THR:OG1	1:B:1548:THR:O	2.33	0.43
1:A:4283:PHE:HE2	1:B:4495:PHE:HE2	1.66	0.43
1:B:29:HIS:CE1	1:B:31:GLU:HG2	2.52	0.43
1:B:826:VAL:HG21	1:B:832:LEU:HB2	1.99	0.43
1:B:3017:HIS:O	1:B:3018:ARG:HD3	2.18	0.43
1:B:3184:TYR:CE1	1:B:3197:LEU:HD21	2.53	0.43
1:B:4602:ARG:NH1	1:B:4631:ASP:OD1	2.51	0.43
1:C:115:TYR:CG	1:C:164:PRO:HG3	2.53	0.43
1:C:271:ALA:HB2	1:C:488:LEU:HD22	1.99	0.43
1:C:306:LEU:HA	1:C:316:LEU:HD23	2.00	0.43
1:C:3026:ALA:O	1:C:3030:VAL:HG23	2.18	0.43
1:C:3102:LEU:HB2	1:C:3103:PRO:HD3	2.00	0.43
1:C:3321:PRO:HA	1:C:3324:GLU:HG2	1.99	0.43
1:D:3118:GLY:O	1:D:3122:ILE:HG22	2.18	0.43
1:D:3178:HIS:CE1	1:D:3263:MET:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4602:ARG:NH1	1:D:4631:ASP:OD1	2.51	0.43
1:D:4607:ALA:HB1	1:D:4649:VAL:HG21	1.99	0.43
1:A:234:LEU:HD13	1:A:405:LEU:HD22	2.00	0.43
1:A:306:LEU:HA	1:A:316:LEU:HD23	2.00	0.43
1:A:801:ARG:HG2	1:A:1618:LEU:HA	2.00	0.43
1:A:1718:ARG:HD3	1:A:1831:MET:HA	2.00	0.43
1:A:2318:ASN:HB3	1:A:2322:ARG:NH1	2.33	0.43
1:A:2782:MET:HG2	1:A:2787:TRP:HE3	1.82	0.43
1:A:2954:PHE:CE2	1:A:2956:TYR:HB2	2.53	0.43
1:A:3017:HIS:O	1:A:3018:ARG:HD3	2.18	0.43
1:B:234:LEU:HD13	1:B:405:LEU:HD22	2.00	0.43
1:B:891:GLU:HG3	1:B:976:TYR:HD2	1.82	0.43
1:B:1074:ARG:HH11	1:B:1078:CYS:H	1.66	0.43
1:B:1415:ASP:OD2	1:B:1559:ARG:NH2	2.51	0.43
1:B:1898:LEU:HD23	1:B:1902:VAL:HG12	2.00	0.43
1:B:2139:GLU:HG3	1:B:2192:MET:HE3	1.99	0.43
1:B:2954:PHE:CE2	1:B:2956:TYR:HB2	2.53	0.43
1:B:4036:ASP:OD1	1:B:4040:LYS:NZ	2.52	0.43
1:B:4085:LYS:HE3	1:B:4085:LYS:HB3	1.83	0.43
1:C:1500:ARG:HG3	1:C:1505:LEU:H	1.82	0.43
1:C:1979:PHE:HZ	1:C:1996:LEU:HD23	1.84	0.43
1:C:4054:SER:O	1:C:4056:LYS:HG3	2.17	0.43
1:D:1435:GLY:H	1:D:1500:ARG:HH12	1.66	0.43
1:D:1898:LEU:HD23	1:D:1902:VAL:HG12	2.00	0.43
1:A:1434:PRO:O	1:D:2830:ASN:HB2	2.18	0.43
1:A:1848:PRO:HG3	1:A:1890:LYS:HD2	2.00	0.43
1:A:2831:VAL:HG22	1:B:1435:GLY:HA2	2.00	0.43
1:A:3297:LYS:HE2	1:A:3297:LYS:HA	2.00	0.43
1:A:4023:LEU:HG	1:A:4084:VAL:HG12	1.99	0.43
1:B:271:ALA:HB2	1:B:488:LEU:HD22	1.99	0.43
1:B:1038:LEU:HD23	1:B:1043:LYS:HG2	2.01	0.43
1:B:1848:PRO:HG3	1:B:1890:LYS:HD2	2.00	0.43
1:B:1979:PHE:HZ	1:B:1996:LEU:HD23	1.83	0.43
1:B:2130:LEU:HD21	1:B:2173:GLU:HG3	2.00	0.43
1:B:3297:LYS:HZ2	1:B:3335:SER:H	1.67	0.43
1:B:4023:LEU:HG	1:B:4084:VAL:HG12	1.99	0.43
1:C:891:GLU:HG3	1:C:976:TYR:HD2	1.82	0.43
1:C:1785:ASP:OD1	1:C:1786:ILE:N	2.48	0.43
1:C:2728:SER:HA	1:C:2731:LYS:NZ	2.33	0.43
1:C:2791:ARG:HH12	1:C:2795:GLY:C	2.22	0.43
1:D:234:LEU:HD13	1:D:405:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:950:VAL:HA	1:D:1064:LEU:HA	1.99	0.43
1:D:1074:ARG:HD3	1:D:1078:CYS:HB2	2.00	0.43
1:D:2696:ASP:O	1:D:2700:ASN:HA	2.19	0.43
1:D:3017:HIS:O	1:D:3018:ARG:HD3	2.18	0.43
1:A:274:LEU:HD23	1:A:274:LEU:HA	1.90	0.43
1:A:1007:TRP:HE1	1:A:1011:ARG:NH1	2.16	0.43
1:A:2397:ASP:O	1:A:2401:ARG:HG3	2.18	0.43
1:A:2759:PRO:HG2	1:A:2762:LEU:HD13	2.01	0.43
1:A:2782:MET:HG2	1:A:2787:TRP:CE3	2.54	0.43
1:A:2909:ASP:OD2	1:A:2912:LEU:HG	2.19	0.43
1:A:4036:ASP:OD1	1:A:4040:LYS:NZ	2.52	0.43
1:A:4084:VAL:O	1:A:4088:HIS:HB2	2.18	0.43
1:B:801:ARG:HG2	1:B:1618:LEU:HA	2.00	0.43
1:B:2782:MET:HG2	1:B:2787:TRP:CE3	2.54	0.43
1:B:3323:MET:HB3	1:B:3327:LYS:HZ1	1.83	0.43
1:B:3695:MET:HB3	1:B:3731:LEU:HD11	2.00	0.43
1:B:3882:GLN:NE2	1:B:3946:GLY:HA3	2.33	0.43
1:C:686:VAL:HG13	1:C:687:THR:HG23	2.00	0.43
1:C:1293:GLN:O	1:C:1294:ASN:HB3	2.18	0.43
1:C:2481:GLN:NE2	1:C:2537:GLY:O	2.42	0.43
1:C:3741:LEU:HD11	1:C:3777:MET:HG2	1.99	0.43
1:D:58:VAL:HG13	1:D:319:LYS:HG2	2.00	0.43
1:D:874:LEU:HD23	1:D:879:GLU:OE1	2.19	0.43
1:D:2899:ASN:O	1:D:2899:ASN:ND2	2.52	0.43
1:D:2954:PHE:CE2	1:D:2956:TYR:HB2	2.53	0.43
1:D:3882:GLN:NE2	1:D:3946:GLY:HA3	2.32	0.43
1:A:891:GLU:HG3	1:A:976:TYR:HD2	1.82	0.43
1:A:897:LYS:HE2	1:A:917:CYS:HB3	1.99	0.43
1:A:1300:MET:HE2	1:A:1300:MET:HB3	1.81	0.43
1:A:1415:ASP:OD2	1:A:1559:ARG:NH2	2.51	0.43
1:B:1948:MET:HA	1:B:1951:LEU:HD23	2.00	0.43
1:B:2791:ARG:HH12	1:B:2795:GLY:C	2.22	0.43
1:C:880:ARG:HH12	1:C:881:ILE:HD13	1.84	0.43
1:C:1038:LEU:HD23	1:C:1043:LYS:HG2	2.01	0.43
1:C:1415:ASP:OD2	1:C:1559:ARG:NH2	2.51	0.43
1:C:2782:MET:HG2	1:C:2787:TRP:HE3	1.82	0.43
1:C:3184:TYR:CE1	1:C:3197:LEU:HD21	2.53	0.43
1:C:3986:LEU:O	1:C:3989:ASN:HB2	2.19	0.43
1:C:4602:ARG:NH1	1:C:4631:ASP:OD1	2.51	0.43
1:D:200:SER:O	1:D:202:HIS:HD2	2.01	0.43
1:D:686:VAL:HG13	1:D:687:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:801:ARG:HG2	1:D:1618:LEU:HA	2.00	0.43
1:D:2909:ASP:OD2	1:D:2912:LEU:HG	2.19	0.43
1:A:115:TYR:CG	1:A:164:PRO:HG3	2.53	0.43
1:A:718:VAL:HG23	1:A:793:SER:HB3	2.01	0.43
1:A:2888:LYS:HA	1:A:2891:ASP:OD2	2.19	0.43
1:B:930:ASN:OD1	1:B:931:TYR:N	2.52	0.43
1:B:963:LYS:NZ	1:B:979:ALA:HB3	2.33	0.43
1:B:1074:ARG:HD3	1:B:1078:CYS:HB2	2.00	0.43
1:B:1939:ASN:ND2	1:B:1989:PRO:HD3	2.34	0.43
1:B:3026:ALA:O	1:B:3030:VAL:HG23	2.18	0.43
1:C:2332:GLY:O	1:C:2336:ARG:HG3	2.18	0.43
1:C:3695:MET:HB3	1:C:3731:LEU:HD11	2.00	0.43
1:C:3728:GLN:OE1	1:C:3770:ASN:ND2	2.52	0.43
1:C:4023:LEU:HG	1:C:4084:VAL:HG12	1.99	0.43
1:D:1718:ARG:HD3	1:D:1831:MET:HA	2.00	0.43
1:D:2215:PHE:CG	1:D:2253:LEU:HD22	2.54	0.43
1:D:2724:TYR:CD1	1:D:2895:PHE:HD1	2.35	0.43
1:D:2791:ARG:HH12	1:D:2795:GLY:C	2.22	0.43
1:D:3297:LYS:HE2	1:D:3297:LYS:HA	2.00	0.43
1:A:200:SER:O	1:A:202:HIS:HD2	2.01	0.43
1:A:606:ARG:HH21	1:A:1633:PRO:HD2	1.82	0.43
1:A:930:ASN:OD1	1:A:931:TYR:N	2.52	0.43
1:A:1074:ARG:HH11	1:A:1078:CYS:H	1.67	0.43
1:B:200:SER:O	1:B:202:HIS:HD2	2.01	0.43
1:B:1144:ARG:HB3	1:B:1152:TYR:HB3	1.99	0.43
1:C:911:ASN:OD1	1:C:912:LYS:N	2.52	0.43
1:C:1074:ARG:HH11	1:C:1078:CYS:H	1.67	0.43
1:C:1140:PHE:CD2	1:C:1141:LYS:HE3	2.54	0.43
1:C:1718:ARG:HD3	1:C:1831:MET:HA	2.00	0.43
1:C:1939:ASN:ND2	1:C:1989:PRO:HD3	2.34	0.43
1:C:2782:MET:HG2	1:C:2787:TRP:CE3	2.54	0.43
1:C:2909:ASP:OD2	1:C:2912:LEU:HG	2.19	0.43
1:C:3118:GLY:O	1:C:3122:ILE:HG22	2.18	0.43
1:C:3157:GLU:HG3	1:C:3302:PHE:CZ	2.54	0.43
1:D:1140:PHE:CD2	1:D:1141:LYS:HE3	2.54	0.43
1:D:1471:ASP:OD2	1:D:1474:GLY:N	2.51	0.43
1:D:2130:LEU:HD21	1:D:2173:GLU:HG3	2.00	0.43
1:D:2868:HIS:NE2	1:D:2870:LEU:HB2	2.34	0.43
1:A:505:LEU:HD23	1:A:505:LEU:HA	1.85	0.43
1:A:874:LEU:HD23	1:A:879:GLU:OE1	2.18	0.43
1:A:1948:MET:HA	1:A:1951:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2130:LEU:HD21	1:A:2173:GLU:HG3	2.00	0.43
1:A:2222:LEU:HD23	1:A:2222:LEU:HA	1.88	0.43
1:A:4793:TYR:HH	1:A:4816:HIS:CE1	2.36	0.43
1:B:246:THR:HG21	1:B:267:VAL:HG21	2.01	0.43
1:B:890:HIS:NE2	1:B:924:LEU:HD22	2.33	0.43
1:B:3118:GLY:O	1:B:3122:ILE:HG22	2.18	0.43
1:B:3611:LEU:HD23	1:B:3611:LEU:HA	1.89	0.43
1:B:3664:LEU:O	1:B:3668:ILE:HG13	2.19	0.43
1:B:3728:GLN:OE1	1:B:3770:ASN:ND2	2.52	0.43
1:B:3890:TRP:HB3	1:C:76:ARG:HG2	2.01	0.43
1:B:4194:GLU:HG2	1:B:4645:TRP:HZ3	1.82	0.43
1:B:4921:PHE:HE2	1:B:4940:VAL:HG11	1.84	0.43
1:C:711:GLU:OE1	1:C:716:ASN:ND2	2.52	0.43
1:C:874:LEU:HD23	1:C:879:GLU:OE1	2.18	0.43
1:C:1686:LEU:HD22	1:C:1790:LYS:HZ1	1.83	0.43
1:C:4607:ALA:HB1	1:C:4649:VAL:HG21	2.00	0.43
1:D:962:LYS:NZ	1:D:982:ASP:H	2.16	0.43
1:D:1475:LYS:HE3	1:D:1475:LYS:HB3	1.89	0.43
1:D:2589:LEU:O	1:D:2593:VAL:HG13	2.19	0.43
1:D:2782:MET:HG2	1:D:2787:TRP:CE3	2.54	0.43
1:A:58:VAL:HG13	1:A:319:LYS:HG2	2.00	0.43
1:A:880:ARG:HH12	1:A:881:ILE:HD13	1.84	0.43
1:A:890:HIS:NE2	1:A:924:LEU:HD22	2.33	0.43
1:A:1941:ARG:NH2	1:A:3609:TYR:HB2	2.27	0.43
1:A:3215:MET:HA	1:A:3215:MET:CE	2.48	0.43
1:A:3664:LEU:O	1:A:3668:ILE:HG13	2.19	0.43
1:B:686:VAL:HG13	1:B:687:THR:HG23	2.00	0.43
1:B:711:GLU:OE1	1:B:716:ASN:ND2	2.52	0.43
1:B:874:LEU:HD23	1:B:879:GLU:OE1	2.18	0.43
1:B:2929:LEU:HD21	1:B:2970:LEU:HD11	2.01	0.43
1:B:3321:PRO:HA	1:B:3324:GLU:HG2	2.00	0.43
1:C:246:THR:HG21	1:C:267:VAL:HG21	2.01	0.43
1:C:2130:LEU:HD21	1:C:2173:GLU:HG3	2.00	0.43
1:C:3312:PRO:HD2	1:C:3313:GLN:OE1	2.19	0.43
1:D:880:ARG:HH12	1:D:881:ILE:HD13	1.84	0.43
1:D:1979:PHE:HZ	1:D:1996:LEU:HD23	1.84	0.43
1:D:2332:GLY:O	1:D:2336:ARG:HG3	2.18	0.43
1:D:4689:LYS:HZ3	1:D:4693:SER:HB3	1.84	0.43
1:A:711:GLU:OE1	1:A:716:ASN:ND2	2.52	0.42
1:A:1038:LEU:HD23	1:A:1043:LYS:HG2	2.01	0.42
1:A:1979:PHE:HZ	1:A:1996:LEU:HD23	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2455:ASP:OD2	1:A:2457:SER:OG	2.20	0.42
1:A:2696:ASP:O	1:A:2700:ASN:HA	2.19	0.42
1:A:3321:PRO:HA	1:A:3324:GLU:HG2	2.00	0.42
1:A:3323:MET:HB3	1:A:3327:LYS:HZ3	1.83	0.42
1:A:4085:LYS:HB3	1:A:4085:LYS:HE3	1.83	0.42
1:B:600:LEU:HD12	1:B:604:HIS:CD2	2.54	0.42
1:B:1031:ARG:HD2	1:B:1042:THR:HG21	2.01	0.42
1:B:2589:LEU:O	1:B:2593:VAL:HG13	2.19	0.42
1:B:2868:HIS:NE2	1:B:2870:LEU:HB2	2.34	0.42
1:B:3122:ILE:HG12	1:B:3127:GLN:CG	2.49	0.42
1:B:3986:LEU:O	1:B:3989:ASN:HB2	2.19	0.42
1:C:234:LEU:HD13	1:C:405:LEU:HD22	2.00	0.42
1:C:718:VAL:HG23	1:C:793:SER:HB3	2.01	0.42
1:C:930:ASN:OD1	1:C:931:TYR:N	2.52	0.42
1:C:2318:ASN:HB3	1:C:2322:ARG:NH1	2.33	0.42
1:C:2696:ASP:O	1:C:2700:ASN:HA	2.19	0.42
1:C:3316:LYS:HB2	1:C:3316:LYS:HE2	1.54	0.42
1:C:3326:LEU:HD21	1:C:3336:GLU:HB2	2.01	0.42
1:D:712:GLU:OE1	1:D:1086:ARG:NH2	2.39	0.42
1:D:930:ASN:OD1	1:D:931:TYR:N	2.52	0.42
1:D:967:PRO:O	1:D:971:GLN:HG2	2.19	0.42
1:D:2759:PRO:HG2	1:D:2762:LEU:HD13	2.01	0.42
1:D:3026:ALA:O	1:D:3030:VAL:HG23	2.18	0.42
1:A:971:GLN:HE21	1:A:978:PRO:HD2	1.84	0.42
1:A:2791:ARG:HH12	1:A:2795:GLY:C	2.22	0.42
1:A:4602:ARG:NH1	1:A:4631:ASP:OD1	2.51	0.42
2:E:25:VAL:HG12	2:E:104:LEU:HA	2.00	0.42
1:B:274:LEU:HD23	1:B:274:LEU:HA	1.89	0.42
1:B:505:LEU:HD23	1:B:505:LEU:HA	1.85	0.42
1:B:880:ARG:HH12	1:B:881:ILE:HD13	1.84	0.42
1:B:983:LEU:HD11	1:B:1055:ARG:HG3	2.00	0.42
1:B:1300:MET:HE2	1:B:1300:MET:HB3	1.87	0.42
1:B:1564:MET:HE2	1:B:1565:PRO:HD2	2.00	0.42
1:B:2830:ASN:HB2	1:C:1434:PRO:O	2.19	0.42
1:C:3304:GLN:OE1	1:C:3308:ASN:ND2	2.48	0.42
1:D:971:GLN:HE21	1:D:978:PRO:HD2	1.84	0.42
1:D:1038:LEU:HD23	1:D:1043:LYS:HG2	2.01	0.42
1:D:2436:ILE:HG22	1:D:2491:GLY:HA3	2.02	0.42
1:D:3195:LEU:HD22	1:D:3197:LEU:HB2	2.01	0.42
1:D:3201:VAL:O	1:D:3204:VAL:HG12	2.19	0.42
1:D:3213:LYS:HA	1:D:3216:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:LEU:HD12	1:A:604:HIS:CD2	2.54	0.42
1:A:967:PRO:O	1:A:971:GLN:HG2	2.19	0.42
1:A:3312:PRO:HD2	1:A:3313:GLN:OE1	2.19	0.42
1:A:3695:MET:HB3	1:A:3731:LEU:HD11	2.00	0.42
1:B:1140:PHE:CD2	1:B:1141:LYS:HE3	2.54	0.42
1:B:1572:LYS:HD2	1:B:1572:LYS:H	1.84	0.42
1:B:2554:ARG:HH11	1:B:2554:ARG:HG3	1.85	0.42
1:B:3213:LYS:HA	1:B:3216:GLU:OE2	2.19	0.42
1:C:58:VAL:HG13	1:C:319:LYS:HG2	2.00	0.42
1:C:600:LEU:HD12	1:C:604:HIS:CD2	2.54	0.42
1:C:1471:ASP:OD2	1:C:1474:GLY:N	2.51	0.42
1:C:1948:MET:HA	1:C:1951:LEU:HD23	2.00	0.42
1:C:2868:HIS:NE2	1:C:2870:LEU:HB2	2.34	0.42
1:C:2874:TYR:CZ	1:C:2882:LYS:HD3	2.54	0.42
1:C:4084:VAL:O	1:C:4088:HIS:HB2	2.18	0.42
1:D:2888:LYS:HA	1:D:2891:ASP:OD2	2.19	0.42
1:D:3102:LEU:HB2	1:D:3103:PRO:HD3	2.00	0.42
1:A:246:THR:HG21	1:A:267:VAL:HG21	2.01	0.42
1:A:1140:PHE:CD2	1:A:1141:LYS:HE3	2.54	0.42
1:A:2155:PHE:HD1	1:A:2162:MET:HG3	1.85	0.42
1:A:2771:TYR:O	1:A:2774:PRO:HD2	2.20	0.42
1:A:3178:HIS:CE1	1:A:3263:MET:HA	2.53	0.42
1:A:3187:LYS:HZ3	1:A:3191:GLU:HB3	1.84	0.42
1:A:3201:VAL:O	1:A:3204:VAL:HG12	2.20	0.42
1:A:3326:LEU:HD21	1:A:3336:GLU:HB2	2.02	0.42
1:A:3712:LYS:O	1:A:3717:LYS:NZ	2.53	0.42
1:B:911:ASN:OD1	1:B:912:LYS:N	2.52	0.42
1:B:2138:GLU:HA	1:B:2141:LEU:HD12	2.02	0.42
1:B:2318:ASN:HB3	1:B:2322:ARG:NH1	2.33	0.42
1:B:2696:ASP:O	1:B:2700:ASN:HA	2.19	0.42
1:C:932:ASN:HA	1:C:935:MET:HG3	2.02	0.42
1:C:2403:ALA:HB2	1:C:2475:VAL:HG22	2.01	0.42
1:C:3195:LEU:HD22	1:C:3197:LEU:HB2	2.01	0.42
1:D:198:ASN:OD1	1:D:199:GLY:N	2.50	0.42
1:D:711:GLU:OE1	1:D:716:ASN:ND2	2.52	0.42
1:D:891:GLU:HG3	1:D:976:TYR:HD2	1.82	0.42
1:D:983:LEU:HD11	1:D:1055:ARG:HG3	2.00	0.42
1:D:1711:LEU:HB3	1:D:1831:MET:SD	2.58	0.42
1:D:3712:LYS:O	1:D:3717:LYS:NZ	2.53	0.42
1:D:3986:LEU:O	1:D:3989:ASN:HB2	2.19	0.42
1:A:996:VAL:HG21	1:A:1051:ARG:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2666:LEU:HB3	1:A:2667:PRO:HD3	2.02	0.42
1:B:58:VAL:HG13	1:B:319:LYS:HG2	2.00	0.42
1:B:227:TYR:CG	1:B:352:SER:HB3	2.55	0.42
1:B:718:VAL:HG23	1:B:793:SER:HB3	2.01	0.42
1:B:844:ARG:NH2	1:B:847:THR:HG21	2.35	0.42
1:B:1435:GLY:H	1:B:1500:ARG:HH12	1.66	0.42
1:B:2899:ASN:O	1:B:2899:ASN:ND2	2.52	0.42
1:B:3325:LYS:HE3	1:B:3325:LYS:HA	2.01	0.42
1:B:3712:LYS:O	1:B:3717:LYS:NZ	2.53	0.42
1:C:2436:ILE:HG22	1:C:2491:GLY:HA3	2.02	0.42
1:C:2888:LYS:HA	1:C:2891:ASP:OD2	2.19	0.42
1:D:718:VAL:HG23	1:D:793:SER:HB3	2.01	0.42
1:D:2155:PHE:HD1	1:D:2162:MET:HG3	1.85	0.42
1:D:2554:ARG:HH11	1:D:2554:ARG:HG3	1.85	0.42
1:D:4084:VAL:O	1:D:4088:HIS:HB2	2.18	0.42
1:D:4085:LYS:HE3	1:D:4085:LYS:HB3	1.83	0.42
1:A:2436:ILE:HG22	1:A:2491:GLY:HA3	2.02	0.42
1:A:2589:LEU:O	1:A:2593:VAL:HG13	2.19	0.42
1:A:2728:SER:HA	1:A:2731:LYS:NZ	2.33	0.42
1:A:3325:LYS:HE3	1:A:3325:LYS:HA	2.01	0.42
1:B:198:ASN:OD1	1:B:199:GLY:N	2.50	0.42
1:B:1979:PHE:CG	1:B:1993:ARG:HG2	2.55	0.42
1:B:2888:LYS:HA	1:B:2891:ASP:OD2	2.19	0.42
1:C:1435:GLY:H	1:C:1500:ARG:HH12	1.66	0.42
1:C:2589:LEU:O	1:C:2593:VAL:HG13	2.19	0.42
1:C:2711:ILE:HD11	1:C:2783:LEU:HG	2.02	0.42
1:C:2929:LEU:HD21	1:C:2970:LEU:HD11	2.01	0.42
1:C:3201:VAL:O	1:C:3204:VAL:HG12	2.20	0.42
1:C:3325:LYS:HE3	1:C:3325:LYS:HA	2.01	0.42
1:C:4036:ASP:OD1	1:C:4040:LYS:NZ	2.52	0.42
1:D:2666:LEU:HB3	1:D:2667:PRO:HD3	2.02	0.42
1:D:3325:LYS:HE3	1:D:3325:LYS:HA	2.01	0.42
1:A:686:VAL:HG13	1:A:687:THR:HG23	2.00	0.42
1:A:911:ASN:OD1	1:A:912:LYS:N	2.52	0.42
1:A:2146:LEU:HD23	1:A:2146:LEU:HA	1.87	0.42
1:A:2929:LEU:HD21	1:A:2970:LEU:HD11	2.01	0.42
1:A:3102:LEU:HB2	1:A:3103:PRO:HD3	2.00	0.42
1:A:3127:GLN:OE1	1:A:3183:ILE:HB	2.20	0.42
1:A:3213:LYS:HA	1:A:3216:GLU:OE2	2.19	0.42
1:B:881:ILE:O	1:B:885:LEU:HD23	2.20	0.42
1:B:932:ASN:HA	1:B:935:MET:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:996:VAL:HG21	1:B:1051:ARG:HA	2.02	0.42
1:B:2155:PHE:HD1	1:B:2162:MET:HG3	1.85	0.42
1:B:2408:LEU:HD23	1:B:2408:LEU:HA	1.90	0.42
1:B:2874:TYR:CZ	1:B:2882:LYS:HD3	2.54	0.42
1:B:2959:GLU:OE1	1:B:2959:GLU:N	2.53	0.42
1:B:3326:LEU:HD21	1:B:3336:GLU:HB2	2.02	0.42
1:B:4155:SER:O	1:B:4159:GLN:HG2	2.20	0.42
1:B:4262:LYS:HG3	1:C:4698:LEU:HD13	2.00	0.42
1:C:983:LEU:HD11	1:C:1055:ARG:HG3	2.01	0.42
1:C:2155:PHE:HD1	1:C:2162:MET:HG3	1.85	0.42
1:C:2554:ARG:HH11	1:C:2554:ARG:HG3	1.85	0.42
1:C:2708:THR:HB	1:C:2780:LYS:HB3	2.02	0.42
1:C:2759:PRO:HG2	1:C:2762:LEU:HD13	2.01	0.42
1:C:4155:SER:O	1:C:4159:GLN:HG2	2.20	0.42
1:D:1572:LYS:HD2	1:D:1572:LYS:H	1.85	0.42
1:D:1948:MET:HA	1:D:1951:LEU:HD23	2.00	0.42
1:D:2708:THR:HB	1:D:2780:LYS:HB3	2.01	0.42
1:A:844:ARG:NH2	1:A:847:THR:HG21	2.35	0.42
1:A:1572:LYS:HD2	1:A:1572:LYS:H	1.84	0.42
1:A:1939:ASN:ND2	1:A:1989:PRO:HD3	2.34	0.42
1:A:2215:PHE:CG	1:A:2253:LEU:HD22	2.54	0.42
1:A:2403:ALA:HB2	1:A:2475:VAL:HG22	2.01	0.42
1:A:2874:TYR:CZ	1:A:2882:LYS:HD3	2.54	0.42
1:A:3036:LEU:O	1:A:3040:LEU:HG	2.20	0.42
1:A:3756:ALA:O	1:A:3760:LYS:HG3	2.20	0.42
1:B:1064:LEU:HD23	1:B:1064:LEU:H	1.85	0.42
1:B:2403:ALA:HB2	1:B:2475:VAL:HG22	2.01	0.42
1:B:2909:ASP:OD2	1:B:2912:LEU:HG	2.19	0.42
1:B:3201:VAL:O	1:B:3204:VAL:HG12	2.20	0.42
1:C:844:ARG:NH2	1:C:847:THR:HG21	2.35	0.42
1:C:1064:LEU:H	1:C:1064:LEU:HD23	1.85	0.42
1:C:1572:LYS:H	1:C:1572:LYS:HD2	1.84	0.42
1:C:1572:LYS:HD2	1:C:1572:LYS:N	2.33	0.42
1:C:1979:PHE:CG	1:C:1993:ARG:HG2	2.55	0.42
1:C:2215:PHE:CG	1:C:2253:LEU:HD22	2.54	0.42
1:C:2965:LYS:HA	1:C:2965:LYS:HD3	1.80	0.42
1:C:3213:LYS:HA	1:C:3216:GLU:OE2	2.19	0.42
1:C:3290:ILE:HG22	1:C:3291:ASP:OD2	2.20	0.42
1:D:600:LEU:HD12	1:D:604:HIS:CD2	2.54	0.42
1:D:2138:GLU:HA	1:D:2141:LEU:HD12	2.02	0.42
1:D:3312:PRO:HD2	1:D:3313:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3695:MET:HB3	1:D:3731:LEU:HD11	2.00	0.42
1:D:3756:ALA:O	1:D:3760:LYS:HG3	2.20	0.42
2:F:19:LYS:HB2	2:F:19:LYS:HE3	1.80	0.42
1:A:2937:HIS:HA	1:A:3014:LEU:HD11	2.02	0.42
1:A:3157:GLU:HG3	1:A:3302:PHE:CZ	2.54	0.42
1:A:4921:PHE:HE2	1:A:4940:VAL:HG11	1.84	0.42
1:B:829:LYS:HZ2	1:B:1037:LEU:HB3	1.85	0.42
1:B:967:PRO:O	1:B:971:GLN:HG2	2.19	0.42
1:B:3072:MET:HE2	1:B:3072:MET:HB2	1.66	0.42
1:C:1080:GLY:O	1:C:1081:THR:OG1	2.32	0.42
1:C:1898:LEU:HD23	1:C:1902:VAL:HG12	2.00	0.42
1:C:2959:GLU:OE1	1:C:2959:GLU:N	2.53	0.42
1:C:3664:LEU:O	1:C:3668:ILE:HG13	2.19	0.42
1:D:227:TYR:CG	1:D:352:SER:HB3	2.55	0.42
1:D:844:ARG:NH2	1:D:847:THR:HG21	2.35	0.42
1:D:911:ASN:OD1	1:D:912:LYS:N	2.52	0.42
1:D:2711:ILE:HD11	1:D:2783:LEU:HG	2.02	0.42
1:D:3036:LEU:O	1:D:3040:LEU:HG	2.20	0.42
1:D:3290:ILE:HG22	1:D:3291:ASP:OD2	2.20	0.42
1:D:3326:LEU:HD21	1:D:3336:GLU:HB2	2.01	0.42
1:D:3728:GLN:OE1	1:D:3770:ASN:ND2	2.52	0.42
1:D:4921:PHE:HE2	1:D:4940:VAL:HG11	1.84	0.42
1:A:309:MET:HE3	1:A:315:LEU:HB3	2.01	0.42
1:A:2138:GLU:HA	1:A:2141:LEU:HD12	2.02	0.42
1:B:735:GLY:O	1:B:737:ILE:HD12	2.20	0.42
1:B:824:GLU:HA	1:B:1020:ILE:HD12	2.02	0.42
1:B:841:LYS:O	1:B:848:ARG:NH2	2.53	0.42
1:B:1591:LEU:HD12	1:B:1591:LEU:HA	1.93	0.42
1:B:1748:LEU:HD11	1:B:1853:GLU:HG3	2.02	0.42
1:B:2215:PHE:CG	1:B:2253:LEU:HD22	2.54	0.42
1:B:2919:LYS:HB2	1:B:2919:LYS:HE3	1.87	0.42
1:B:3312:PRO:HD2	1:B:3313:GLN:OE1	2.19	0.42
1:C:1031:ARG:HD2	1:C:1042:THR:HG21	2.01	0.42
1:C:2138:GLU:HA	1:C:2141:LEU:HD12	2.02	0.42
1:C:4921:PHE:HE2	1:C:4940:VAL:HG11	1.84	0.42
1:D:932:ASN:HA	1:D:935:MET:HG3	2.02	0.42
1:D:1283:LEU:O	1:D:1555:PHE:N	2.49	0.42
1:D:2146:LEU:HD23	1:D:2146:LEU:HA	1.87	0.42
1:D:2326:ARG:HD3	1:D:2326:ARG:HA	1.76	0.42
1:D:2874:TYR:CZ	1:D:2882:LYS:HD3	2.54	0.42
1:D:3127:GLN:OE1	1:D:3183:ILE:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3664:LEU:O	1:D:3668:ILE:HG13	2.19	0.42
1:D:4061:SER:O	1:D:4064:GLU:HG3	2.20	0.42
1:D:4731:LEU:HD23	1:D:4731:LEU:HA	1.92	0.42
1:A:983:LEU:HD11	1:A:1055:ARG:HG3	2.00	0.41
1:A:2258:ARG:NE	1:A:2258:ARG:HA	2.35	0.41
1:A:2868:HIS:NE2	1:A:2870:LEU:HB2	2.34	0.41
1:A:3290:ILE:HG22	1:A:3291:ASP:OD2	2.20	0.41
1:A:4061:SER:O	1:A:4064:GLU:HG3	2.20	0.41
1:A:4155:SER:O	1:A:4159:GLN:HG2	2.20	0.41
1:B:674:TYR:OH	1:B:676:GLU:OE2	2.37	0.41
1:C:971:GLN:HE21	1:C:978:PRO:HD2	1.84	0.41
1:C:1721:MET:SD	1:C:2127:ARG:NH1	2.93	0.41
1:C:2114:GLU:HG2	1:C:2115:ASP:N	2.35	0.41
1:C:3036:LEU:O	1:C:3040:LEU:HG	2.20	0.41
1:C:3122:ILE:HG12	1:C:3127:GLN:CG	2.49	0.41
1:C:3717:LYS:HB2	1:C:3717:LYS:HE2	1.89	0.41
1:D:246:THR:HG21	1:D:267:VAL:HG21	2.01	0.41
1:D:881:ILE:O	1:D:885:LEU:HD23	2.20	0.41
1:D:1721:MET:SD	1:D:2127:ARG:NH1	2.93	0.41
1:D:1939:ASN:ND2	1:D:1989:PRO:HD3	2.34	0.41
1:D:2937:HIS:HA	1:D:3014:LEU:HD11	2.02	0.41
1:A:227:TYR:CG	1:A:352:SER:HB3	2.55	0.41
1:A:735:GLY:O	1:A:737:ILE:HD12	2.20	0.41
1:A:824:GLU:HA	1:A:1020:ILE:HD12	2.02	0.41
1:A:841:LYS:O	1:A:848:ARG:NH2	2.53	0.41
1:A:1748:LEU:HD11	1:A:1853:GLU:HG3	2.02	0.41
1:A:2554:ARG:HH11	1:A:2554:ARG:HG3	1.85	0.41
1:A:3728:GLN:OE1	1:A:3770:ASN:ND2	2.52	0.41
1:A:3986:LEU:O	1:A:3989:ASN:HB2	2.19	0.41
1:B:712:GLU:O	1:B:838:ARG:HG3	2.21	0.41
1:B:971:GLN:HE21	1:B:978:PRO:HD2	1.84	0.41
1:B:1721:MET:SD	1:B:2127:ARG:NH1	2.93	0.41
1:B:2711:ILE:HD11	1:B:2783:LEU:HG	2.02	0.41
1:B:2759:PRO:HG2	1:B:2762:LEU:HD13	2.01	0.41
1:B:2967:VAL:O	1:B:2970:LEU:HG	2.20	0.41
1:B:3127:GLN:OE1	1:B:3183:ILE:HB	2.20	0.41
1:B:3213:LYS:O	1:B:3216:GLU:HG2	2.20	0.41
1:C:2071:GLN:CD	1:C:3648:GLY:HA3	2.41	0.41
1:C:4061:SER:O	1:C:4064:GLU:HG3	2.20	0.41
1:C:4694:LEU:HA	1:C:4697:VAL:HG12	2.02	0.41
1:D:735:GLY:O	1:D:737:ILE:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2172:MET:HG2	1:D:2217:HIS:HD2	1.85	0.41
1:D:2771:TYR:O	1:D:2774:PRO:HD2	2.20	0.41
1:D:4082:GLU:HA	1:D:4085:LYS:HE3	2.03	0.41
1:A:801:ARG:NH1	1:A:1615:GLN:O	2.40	0.41
1:A:963:LYS:HZ3	1:A:979:ALA:HB3	1.86	0.41
1:A:1686:LEU:HD22	1:A:1790:LYS:HZ1	1.85	0.41
1:A:2539:GLU:HA	1:A:2584:MET:HE1	2.02	0.41
1:A:4895:ASN:HA	1:A:4905:PHE:CD1	2.56	0.41
1:B:2114:GLU:HG2	1:B:2115:ASP:N	2.35	0.41
1:B:2436:ILE:HG22	1:B:2491:GLY:HA3	2.02	0.41
1:B:2771:TYR:O	1:B:2774:PRO:HD2	2.20	0.41
1:B:3157:GLU:HG3	1:B:3302:PHE:CZ	2.54	0.41
1:B:3692:ALA:HA	1:B:3695:MET:HE3	2.01	0.41
1:C:824:GLU:HA	1:C:1020:ILE:HD12	2.02	0.41
1:C:2258:ARG:NE	1:C:2258:ARG:HA	2.35	0.41
1:C:3213:LYS:O	1:C:3216:GLU:HG2	2.20	0.41
1:C:4651:ARG:HG2	1:C:4651:ARG:NH1	2.34	0.41
1:D:712:GLU:O	1:D:838:ARG:HG3	2.21	0.41
1:D:1255:LEU:HD12	1:D:1255:LEU:HA	1.93	0.41
1:D:2232:PRO:C	1:D:2234:MET:H	2.24	0.41
1:D:2403:ALA:HB2	1:D:2475:VAL:HG22	2.01	0.41
1:D:2605:MET:HB3	1:D:2606:PRO:HD3	2.02	0.41
1:D:4735:ASN:HB3	1:D:4738:PHE:HD2	1.86	0.41
1:A:114:LEU:HB2	1:A:117:HIS:ND1	2.35	0.41
1:A:1064:LEU:HD23	1:A:1064:LEU:H	1.85	0.41
1:A:2303:ARG:HE	1:A:2401:ARG:NE	2.19	0.41
1:A:2954:PHE:CD1	1:A:2955:PRO:HD2	2.56	0.41
1:A:3316:LYS:HE2	1:A:3316:LYS:HB2	1.54	0.41
1:A:4059:THR:OG1	1:A:4062:GLU:HG3	2.21	0.41
1:B:2539:GLU:HA	1:B:2584:MET:HE1	2.02	0.41
1:B:3290:ILE:HG22	1:B:3291:ASP:OD2	2.20	0.41
1:B:4059:THR:OG1	1:B:4062:GLU:HG3	2.21	0.41
1:B:4061:SER:O	1:B:4064:GLU:HG3	2.20	0.41
1:B:4651:ARG:HG2	1:B:4651:ARG:NH1	2.34	0.41
1:B:4694:LEU:HA	1:B:4697:VAL:HG12	2.02	0.41
1:C:2967:VAL:O	1:C:2970:LEU:HG	2.20	0.41
1:C:4056:LYS:HE3	1:D:4660:PHE:O	2.20	0.41
1:C:4082:GLU:HA	1:C:4085:LYS:HE3	2.03	0.41
1:D:192:LEU:HD12	1:D:192:LEU:HA	1.91	0.41
1:D:521:GLU:H	1:D:521:GLU:CD	2.24	0.41
1:D:996:VAL:HG21	1:D:1051:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4155:SER:O	1:D:4159:GLN:HG2	2.20	0.41
1:A:483:LYS:HE2	1:A:483:LYS:HB2	1.80	0.41
1:A:2604:LYS:HZ2	1:A:2664:LEU:HD22	1.85	0.41
1:A:2708:THR:HB	1:A:2780:LYS:HB3	2.02	0.41
1:A:4046:ARG:HG2	1:A:4076:GLU:OE2	2.21	0.41
1:B:114:LEU:HB2	1:B:117:HIS:ND1	2.35	0.41
1:B:2071:GLN:CD	1:B:3648:GLY:HA3	2.41	0.41
1:B:2172:MET:HG2	1:B:2217:HIS:HD2	1.86	0.41
1:B:2258:ARG:HA	1:B:2258:ARG:NE	2.35	0.41
1:B:2303:ARG:HE	1:B:2401:ARG:NE	2.19	0.41
1:B:2326:ARG:HA	1:B:2326:ARG:HD3	1.76	0.41
1:B:3195:LEU:HD22	1:B:3197:LEU:HB2	2.01	0.41
1:B:4055:HIS:O	1:B:4057:HIS:ND1	2.54	0.41
1:C:521:GLU:CD	1:C:521:GLU:H	2.24	0.41
1:C:735:GLY:O	1:C:737:ILE:HD12	2.20	0.41
1:C:2666:LEU:HB3	1:C:2667:PRO:HD3	2.02	0.41
1:C:4735:ASN:HB3	1:C:4738:PHE:HD2	1.85	0.41
1:D:1031:ARG:HD2	1:D:1042:THR:HG21	2.01	0.41
1:D:1064:LEU:HD23	1:D:1064:LEU:H	1.85	0.41
1:D:1748:LEU:HD11	1:D:1853:GLU:HG3	2.02	0.41
1:D:1979:PHE:CG	1:D:1993:ARG:HG2	2.55	0.41
1:D:2604:LYS:HZ2	1:D:2664:LEU:HD22	1.84	0.41
1:D:2878:THR:HG23	1:D:2881:GLU:H	1.86	0.41
1:D:3157:GLU:HG3	1:D:3302:PHE:CZ	2.54	0.41
1:A:521:GLU:H	1:A:521:GLU:CD	2.24	0.41
1:A:2172:MET:HG2	1:A:2217:HIS:HD2	1.86	0.41
1:A:2326:ARG:HA	1:A:2326:ARG:HD3	1.76	0.41
1:A:3173:THR:HA	1:A:3176:ASP:OD2	2.21	0.41
1:A:3195:LEU:HD22	1:A:3197:LEU:HB2	2.01	0.41
1:A:4055:HIS:O	1:A:4057:HIS:ND1	2.54	0.41
1:A:4694:LEU:HA	1:A:4697:VAL:HG12	2.02	0.41
1:B:801:ARG:HA	1:B:1617:TRP:O	2.20	0.41
1:B:1177:LEU:O	1:B:1180:GLU:HG3	2.21	0.41
1:B:1941:ARG:NH2	1:B:3609:TYR:HB2	2.27	0.41
1:B:2878:THR:HG23	1:B:2881:GLU:H	1.86	0.41
1:B:2937:HIS:HA	1:B:3014:LEU:HD11	2.02	0.41
1:B:3173:THR:HA	1:B:3176:ASP:OD2	2.21	0.41
1:B:3756:ALA:O	1:B:3760:LYS:HG3	2.20	0.41
1:B:4735:ASN:HB3	1:B:4738:PHE:HD2	1.85	0.41
1:C:2259:GLU:OE2	1:C:3806:ASN:ND2	2.54	0.41
1:C:3061:LEU:HD23	1:C:3061:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3127:GLN:OE1	1:C:3183:ILE:HB	2.20	0.41
1:C:3712:LYS:O	1:C:3717:LYS:NZ	2.53	0.41
1:C:4070:ALA:HB1	1:C:4078:LEU:HD13	2.03	0.41
1:D:274:LEU:HD23	1:D:274:LEU:HA	1.89	0.41
1:D:308:LEU:HD13	1:D:393:MET:HG3	2.03	0.41
1:D:881:ILE:HD12	1:D:884:LYS:HZ3	1.86	0.41
1:D:932:ASN:O	1:D:935:MET:HG3	2.21	0.41
1:D:977:LYS:HA	1:D:978:PRO:HD3	1.89	0.41
1:D:2481:GLN:NE2	1:D:2537:GLY:O	2.42	0.41
1:D:2929:LEU:HD21	1:D:2970:LEU:HD11	2.01	0.41
1:D:3033:LEU:HD23	1:D:3033:LEU:HA	1.86	0.41
1:D:3061:LEU:HD23	1:D:3061:LEU:HA	1.88	0.41
1:D:3611:LEU:HD23	1:D:3611:LEU:HA	1.89	0.41
1:A:712:GLU:O	1:A:838:ARG:HG3	2.21	0.41
1:A:801:ARG:HA	1:A:1617:TRP:O	2.20	0.41
1:A:881:ILE:O	1:A:885:LEU:HD23	2.20	0.41
1:A:2899:ASN:O	1:A:2899:ASN:ND2	2.52	0.41
1:A:4082:GLU:HA	1:A:4085:LYS:HE3	2.03	0.41
1:B:2708:THR:HB	1:B:2780:LYS:HB3	2.02	0.41
1:B:2728:SER:HA	1:B:2731:LYS:NZ	2.33	0.41
1:B:2954:PHE:CD1	1:B:2955:PRO:HD2	2.56	0.41
1:B:3036:LEU:O	1:B:3040:LEU:HG	2.20	0.41
1:B:4070:ALA:HB1	1:B:4078:LEU:HD13	2.03	0.41
1:C:841:LYS:O	1:C:848:ARG:NH2	2.53	0.41
1:C:967:PRO:O	1:C:971:GLN:HG2	2.20	0.41
1:C:996:VAL:HG21	1:C:1051:ARG:HA	2.02	0.41
1:C:2232:PRO:C	1:C:2234:MET:H	2.24	0.41
1:C:2604:LYS:HZ2	1:C:2664:LEU:HD22	1.86	0.41
1:C:3019:ILE:HG13	1:C:3020:SER:N	2.36	0.41
1:D:314:LEU:HD23	1:D:314:LEU:HA	1.93	0.41
1:D:879:GLU:HA	1:D:882:ARG:HD2	2.03	0.41
1:D:1988:CYS:HA	1:D:1989:PRO:HD3	1.95	0.41
1:D:4757:LEU:O	1:D:4761:THR:HG23	2.21	0.41
1:A:844:ARG:HH11	1:A:844:ARG:HG3	1.86	0.41
1:A:879:GLU:HA	1:A:882:ARG:HD2	2.03	0.41
1:A:1586:LEU:HD12	1:A:1586:LEU:HA	1.94	0.41
1:A:1785:ASP:OD1	1:A:1786:ILE:N	2.48	0.41
1:A:1979:PHE:CG	1:A:1993:ARG:HG2	2.55	0.41
1:A:2222:LEU:HD12	1:A:2261:ASP:HB2	2.03	0.41
1:A:2259:GLU:OE2	1:A:3806:ASN:ND2	2.54	0.41
1:A:2605:MET:HB3	1:A:2606:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3122:ILE:HG12	1:A:3127:GLN:CG	2.50	0.41
1:A:4868:ASP:OD1	1:D:4874:ARG:NH1	2.53	0.41
1:B:20:VAL:HG12	1:B:216:PRO:HA	2.02	0.41
1:B:879:GLU:HA	1:B:882:ARG:HD2	2.03	0.41
1:B:1471:ASP:OD2	1:B:1474:GLY:N	2.51	0.41
1:B:2222:LEU:HD12	1:B:2261:ASP:HB2	2.03	0.41
1:B:3002:GLU:O	1:B:3005:THR:OG1	2.33	0.41
1:B:3929:THR:O	1:B:3933:GLN:HG2	2.21	0.41
1:C:227:TYR:CG	1:C:352:SER:HB3	2.55	0.41
1:C:436:LEU:HD13	1:C:518:ALA:HB2	2.03	0.41
1:C:881:ILE:O	1:C:885:LEU:HD23	2.20	0.41
1:C:1748:LEU:HD11	1:C:1853:GLU:HG3	2.02	0.41
1:C:2605:MET:HB3	1:C:2606:PRO:HD3	2.02	0.41
1:C:3279:ASN:O	1:C:3283:ILE:HG12	2.21	0.41
1:C:3756:ALA:O	1:C:3760:LYS:HG3	2.20	0.41
1:D:456:LEU:HD23	1:D:456:LEU:HA	1.96	0.41
1:D:2258:ARG:NE	1:D:2258:ARG:HA	2.35	0.41
1:D:2259:GLU:OE2	1:D:3806:ASN:ND2	2.54	0.41
1:D:2539:GLU:HA	1:D:2584:MET:HE1	2.03	0.41
1:D:3122:ILE:HG12	1:D:3127:GLN:CG	2.50	0.41
1:D:3965:ILE:HG22	1:D:3969:LYS:HE2	2.03	0.41
2:G:85:ALA:O	2:G:94:PRO:HB3	2.21	0.41
1:A:20:VAL:HG12	1:A:216:PRO:HA	2.02	0.41
1:A:459:LEU:HD23	1:A:459:LEU:HA	1.93	0.41
1:A:620:CYS:HG	1:A:621:HIS:HD1	1.68	0.41
1:A:658:ASN:HB2	1:A:832:LEU:HD12	2.03	0.41
1:A:891:GLU:HG3	1:A:976:TYR:CE2	2.56	0.41
1:A:932:ASN:HA	1:A:935:MET:HG3	2.02	0.41
1:A:1080:GLY:O	1:A:1081:THR:OG1	2.32	0.41
1:A:1177:LEU:O	1:A:1180:GLU:HG3	2.21	0.41
1:A:1721:MET:SD	1:A:2127:ARG:NH1	2.93	0.41
1:A:2711:ILE:HD11	1:A:2783:LEU:HG	2.02	0.41
1:A:2736:LYS:HE2	1:A:2741:TRP:HB3	2.03	0.41
1:A:3187:LYS:HZ2	1:A:3191:GLU:HB3	1.84	0.41
1:A:3323:MET:HB3	1:A:3327:LYS:HZ1	1.86	0.41
1:A:4070:ALA:HB1	1:A:4078:LEU:HD13	2.03	0.41
1:B:35:LEU:HD23	1:B:51:SER:HA	2.03	0.41
1:B:245:LEU:HD12	1:B:245:LEU:HA	1.96	0.41
1:B:317:MET:HE2	1:B:317:MET:HB2	1.75	0.41
1:B:1799:VAL:HG21	1:B:1845:LEU:HD22	2.03	0.41
1:B:1973:ILE:HB	1:B:3608:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2222:LEU:HD23	1:B:2222:LEU:HA	1.88	0.41
1:B:2283:LYS:HB3	1:B:2283:LYS:HE2	1.87	0.41
1:B:2694:SER:HA	1:B:2702:ASN:O	2.21	0.41
1:B:3279:ASN:O	1:B:3283:ILE:HG12	2.21	0.41
1:B:4093:ASP:OD1	1:B:4094:ILE:HG13	2.21	0.41
1:B:4895:ASN:HA	1:B:4905:PHE:CD1	2.56	0.41
1:C:317:MET:HB3	1:C:318:ASP:H	1.75	0.41
1:C:658:ASN:HB2	1:C:832:LEU:HD12	2.03	0.41
1:C:879:GLU:HA	1:C:882:ARG:HD2	2.03	0.41
1:C:1177:LEU:O	1:C:1180:GLU:HG3	2.21	0.41
1:C:1256:PRO:HB2	1:C:1591:LEU:HG	2.03	0.41
1:C:2694:SER:HA	1:C:2702:ASN:O	2.21	0.41
1:C:2736:LYS:HE2	1:C:2741:TRP:HB3	2.03	0.41
1:C:3929:THR:O	1:C:3933:GLN:HG2	2.21	0.41
1:C:3965:ILE:HG22	1:C:3969:LYS:HE2	2.03	0.41
1:C:4059:THR:OG1	1:C:4062:GLU:HG3	2.21	0.41
1:C:4895:ASN:HA	1:C:4905:PHE:CD1	2.56	0.41
1:D:317:MET:HB3	1:D:318:ASP:H	1.75	0.41
1:D:801:ARG:HA	1:D:1617:TRP:O	2.20	0.41
1:D:844:ARG:HG3	1:D:844:ARG:HH11	1.86	0.41
1:D:1304:LEU:HD23	1:D:1304:LEU:HA	1.84	0.41
1:D:1705:LEU:HD12	1:D:1705:LEU:HA	1.90	0.41
1:D:2071:GLN:CD	1:D:3648:GLY:HA3	2.41	0.41
1:D:2303:ARG:HE	1:D:2401:ARG:NE	2.19	0.41
1:D:3215:MET:O	1:D:3219:VAL:HG13	2.21	0.41
1:D:3279:ASN:O	1:D:3283:ILE:HG12	2.21	0.41
1:D:4070:ALA:HB1	1:D:4078:LEU:HD13	2.03	0.41
1:D:4093:ASP:OD1	1:D:4094:ILE:HG13	2.21	0.41
1:D:4651:ARG:HG2	1:D:4651:ARG:NH1	2.34	0.41
1:D:4895:ASN:HA	1:D:4905:PHE:CD1	2.56	0.41
2:F:85:ALA:O	2:F:94:PRO:HB3	2.21	0.41
1:A:713:TRP:HH2	1:A:1251:LEU:HD21	1.86	0.41
1:A:1471:ASP:OD2	1:A:1474:GLY:N	2.51	0.41
1:A:1552:VAL:HG12	1:A:1553:PHE:HD1	1.87	0.41
1:A:2071:GLN:CD	1:A:3648:GLY:HA3	2.41	0.41
1:A:2426:LEU:HD23	1:B:143:LEU:HD22	2.02	0.41
1:A:3279:ASN:O	1:A:3283:ILE:HG12	2.21	0.41
1:B:907:VAL:O	1:B:916:PRO:HD3	2.21	0.41
1:B:963:LYS:HD2	1:B:979:ALA:O	2.21	0.41
1:B:1256:PRO:HB2	1:B:1591:LEU:HG	2.03	0.41
1:B:1839:LEU:HD12	1:B:1839:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2666:LEU:HB3	1:B:2667:PRO:HD3	2.02	0.41
1:B:2718:GLU:OE2	1:B:2722:ASN:ND2	2.54	0.41
1:B:4082:GLU:HA	1:B:4085:LYS:HE3	2.03	0.41
1:C:712:GLU:O	1:C:838:ARG:HG3	2.21	0.41
1:C:2878:THR:HG23	1:C:2881:GLU:H	1.86	0.41
1:C:2937:HIS:HA	1:C:3014:LEU:HD11	2.02	0.41
1:D:336:GLU:H	1:D:336:GLU:HG2	1.74	0.41
1:D:658:ASN:HB2	1:D:832:LEU:HD12	2.03	0.41
1:D:824:GLU:HA	1:D:1020:ILE:HD12	2.02	0.41
1:D:1415:ASP:OD1	1:D:1416:ASP:N	2.54	0.41
1:D:1686:LEU:HD22	1:D:1790:LYS:HZ2	1.84	0.41
1:D:1973:ILE:HB	1:D:3608:LEU:HD21	2.03	0.41
1:D:2114:GLU:HG2	1:D:2115:ASP:N	2.35	0.41
1:D:2718:GLU:OE2	1:D:2722:ASN:ND2	2.54	0.41
1:D:2967:VAL:O	1:D:2970:LEU:HG	2.20	0.41
1:D:4694:LEU:HA	1:D:4697:VAL:HG12	2.02	0.41
1:A:35:LEU:HD23	1:A:51:SER:HA	2.03	0.40
1:A:308:LEU:HD13	1:A:393:MET:HG3	2.03	0.40
1:A:2443:PRO:HD3	1:A:2512:MET:HG2	2.03	0.40
1:A:2878:THR:HG23	1:A:2881:GLU:H	1.86	0.40
1:A:2967:VAL:O	1:A:2970:LEU:HG	2.20	0.40
1:A:3215:MET:O	1:A:3219:VAL:HG13	2.21	0.40
1:A:4757:LEU:O	1:A:4761:THR:HG23	2.21	0.40
1:B:483:LYS:HE2	1:B:483:LYS:HB2	1.80	0.40
1:B:844:ARG:HH11	1:B:844:ARG:HG3	1.86	0.40
1:B:1552:VAL:HG12	1:B:1553:PHE:HD1	1.87	0.40
1:B:2605:MET:HB3	1:B:2606:PRO:HD3	2.02	0.40
1:B:2764:SER:HB3	1:B:2767:GLU:HG3	2.03	0.40
1:B:3187:LYS:HZ2	1:B:3191:GLU:HB3	1.85	0.40
1:B:4757:LEU:O	1:B:4761:THR:HG23	2.21	0.40
1:B:4795:LYS:HA	1:B:4795:LYS:HD2	1.81	0.40
1:C:35:LEU:HD23	1:C:51:SER:HA	2.03	0.40
1:C:1040:ASP:HA	1:C:1043:LYS:HZ3	1.85	0.40
1:C:1300:MET:HE2	1:C:1300:MET:HB3	1.86	0.40
1:C:1799:VAL:HG21	1:C:1845:LEU:HD22	2.03	0.40
1:C:2443:PRO:HD3	1:C:2512:MET:HG2	2.03	0.40
1:C:3274:ASN:HA	1:C:3277:LEU:HG	2.03	0.40
1:C:4575:LEU:HD23	1:C:4575:LEU:HA	1.91	0.40
1:D:114:LEU:HB2	1:D:117:HIS:ND1	2.35	0.40
1:D:674:TYR:OH	1:D:676:GLU:OE2	2.37	0.40
1:D:891:GLU:HG3	1:D:976:TYR:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1829:LEU:HD12	1:D:1829:LEU:HA	1.97	0.40
1:D:2443:PRO:HD3	1:D:2512:MET:HG2	2.03	0.40
1:D:2716:LYS:HZ1	1:D:2791:ARG:HB2	1.86	0.40
2:G:19:LYS:HB2	2:G:19:LYS:HE3	1.80	0.40
1:A:233:VAL:HG12	1:A:274:LEU:HD22	2.04	0.40
1:A:244:CYS:SG	1:A:267:VAL:HG13	2.62	0.40
1:A:659:ILE:HD13	1:A:822:CYS:HB3	2.03	0.40
1:A:1031:ARG:HD2	1:A:1042:THR:HG21	2.01	0.40
1:A:1988:CYS:HA	1:A:1989:PRO:HD3	1.95	0.40
1:A:2114:GLU:HG2	1:A:2115:ASP:N	2.35	0.40
1:A:2764:SER:HB3	1:A:2767:GLU:HG3	2.03	0.40
1:A:3282:LYS:HA	1:A:3285:TYR:CD2	2.57	0.40
1:A:4800:ASP:OD1	1:A:4801:THR:N	2.55	0.40
1:B:658:ASN:HB2	1:B:832:LEU:HD12	2.03	0.40
1:B:732:LEU:HD23	1:B:732:LEU:HA	1.89	0.40
1:B:1586:LEU:HD12	1:B:1586:LEU:HA	1.94	0.40
1:B:3304:GLN:OE1	1:B:3308:ASN:ND2	2.48	0.40
1:B:3323:MET:HB3	1:B:3327:LYS:HZ3	1.86	0.40
1:B:3975:GLN:O	1:B:3979:VAL:HG23	2.21	0.40
1:C:114:LEU:HB2	1:C:117:HIS:ND1	2.35	0.40
1:C:419:ILE:HD13	1:C:492:GLU:HG3	2.03	0.40
1:C:891:GLU:HG3	1:C:976:TYR:CE2	2.56	0.40
1:C:963:LYS:HD2	1:C:979:ALA:O	2.21	0.40
1:C:2652:LEU:HD12	1:C:2652:LEU:HA	1.91	0.40
1:C:3074:ASN:OD1	1:C:3075:LEU:N	2.55	0.40
1:C:3213:LYS:HA	1:C:3216:GLU:CD	2.42	0.40
1:C:3213:LYS:O	1:C:3217:GLU:OE1	2.39	0.40
1:C:3319:PHE:O	1:C:3323:MET:HG2	2.21	0.40
1:C:4024:LYS:HB2	1:C:4088:HIS:CE1	2.57	0.40
1:C:4055:HIS:O	1:C:4057:HIS:ND1	2.54	0.40
1:D:436:LEU:HD13	1:D:518:ALA:HB2	2.03	0.40
1:D:1177:LEU:O	1:D:1180:GLU:HG3	2.21	0.40
1:D:1473:LYS:NZ	1:D:1475:LYS:HB2	2.36	0.40
1:D:1505:LEU:HD23	1:D:1506:GLU:N	2.37	0.40
1:D:2742:ILE:HG23	1:D:2753:VAL:HG23	2.04	0.40
1:D:2954:PHE:CD1	1:D:2955:PRO:HD2	2.56	0.40
1:D:3130:CYS:HB3	1:D:3162:PHE:CZ	2.56	0.40
1:D:3282:LYS:HA	1:D:3285:TYR:CD2	2.57	0.40
1:D:3929:THR:O	1:D:3933:GLN:HG2	2.21	0.40
1:A:892:LEU:HD21	1:A:980:PRO:CD	2.51	0.40
1:A:1272:ARG:HH22	1:A:1584:PRO:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1415:ASP:OD1	1:A:1416:ASP:N	2.54	0.40
1:A:1973:ILE:HB	1:A:3608:LEU:HD21	2.03	0.40
1:A:2232:PRO:C	1:A:2234:MET:H	2.24	0.40
1:A:2742:ILE:HG23	1:A:2753:VAL:HG23	2.03	0.40
1:A:3033:LEU:HD23	1:A:3033:LEU:HA	1.86	0.40
1:A:3213:LYS:O	1:A:3216:GLU:HG2	2.20	0.40
1:B:2443:PRO:HD3	1:B:2512:MET:HG2	2.03	0.40
1:B:3212:GLU:O	1:B:3216:GLU:OE1	2.40	0.40
1:C:801:ARG:HA	1:C:1617:TRP:O	2.20	0.40
1:C:907:VAL:O	1:C:916:PRO:HD3	2.21	0.40
1:C:962:LYS:HZ1	1:C:982:ASP:H	1.68	0.40
1:C:1505:LEU:HD23	1:C:1506:GLU:N	2.37	0.40
1:C:1973:ILE:HB	1:C:3608:LEU:HD21	2.03	0.40
1:C:2303:ARG:HE	1:C:2401:ARG:NE	2.19	0.40
1:C:2539:GLU:HA	1:C:2584:MET:HE1	2.02	0.40
1:C:2573:LEU:HD12	1:C:2573:LEU:HA	1.88	0.40
1:C:2651:ALA:O	1:C:2655:LYS:HB2	2.21	0.40
1:C:3130:CYS:HB3	1:C:3162:PHE:CZ	2.56	0.40
1:C:3981:MET:HE3	1:C:3981:MET:HB3	1.89	0.40
1:C:4002:MET:HB3	1:C:4002:MET:HE2	1.89	0.40
1:D:244:CYS:SG	1:D:267:VAL:HG13	2.62	0.40
1:D:419:ILE:HD13	1:D:492:GLU:HG3	2.03	0.40
1:D:1256:PRO:HB2	1:D:1591:LEU:HG	2.03	0.40
1:D:2736:LYS:HE2	1:D:2741:TRP:HB3	2.03	0.40
1:D:2764:SER:HB3	1:D:2767:GLU:HG3	2.03	0.40
1:D:2965:LYS:HA	1:D:2965:LYS:HD3	1.80	0.40
1:D:3019:ILE:HG13	1:D:3020:SER:N	2.36	0.40
1:D:3124:GLU:C	1:D:3126:VAL:H	2.25	0.40
1:D:3319:PHE:O	1:D:3323:MET:HG2	2.22	0.40
1:D:4575:LEU:HD23	1:D:4575:LEU:HA	1.90	0.40
1:A:192:LEU:HD12	1:A:192:LEU:HA	1.91	0.40
1:A:963:LYS:HD2	1:A:979:ALA:O	2.21	0.40
1:A:2790:GLU:O	1:A:2902:ALA:N	2.42	0.40
1:A:3130:CYS:HB3	1:A:3162:PHE:CZ	2.56	0.40
1:A:4038:ASP:HB3	1:A:4040:LYS:NZ	2.37	0.40
1:A:4196:THR:HG22	1:A:4200:MET:SD	2.62	0.40
1:A:4567:TYR:O	1:A:4567:TYR:CD2	2.75	0.40
1:A:4698:LEU:HD13	1:D:4262:LYS:HG3	2.03	0.40
1:B:680:ASP:N	1:B:799:LYS:O	2.54	0.40
1:B:891:GLU:HG3	1:B:976:TYR:CE2	2.56	0.40
1:B:1415:ASP:OD1	1:B:1416:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2604:LYS:HZ2	1:B:2664:LEU:HD22	1.86	0.40
1:B:2693:SER:O	1:B:2702:ASN:HB3	2.22	0.40
1:B:3215:MET:O	1:B:3219:VAL:HG13	2.21	0.40
1:B:3322:LEU:O	1:B:3326:LEU:HG	2.22	0.40
1:C:20:VAL:HG12	1:C:216:PRO:HA	2.02	0.40
1:C:262:TYR:HB2	1:C:389:ARG:HG3	2.04	0.40
1:C:932:ASN:O	1:C:935:MET:HG3	2.21	0.40
1:C:2090:ARG:HE	1:C:2090:ARG:HB3	1.51	0.40
1:C:2771:TYR:O	1:C:2774:PRO:HD2	2.20	0.40
1:C:2954:PHE:CD1	1:C:2955:PRO:HD2	2.56	0.40
1:C:4196:THR:HG22	1:C:4200:MET:SD	2.62	0.40
1:D:233:VAL:HG12	1:D:274:LEU:HD22	2.04	0.40
1:D:262:TYR:HB2	1:D:389:ARG:HG3	2.04	0.40
1:D:963:LYS:HD2	1:D:979:ALA:O	2.21	0.40
1:D:1799:VAL:HG21	1:D:1845:LEU:HD22	2.03	0.40
1:D:2573:LEU:HD12	1:D:2573:LEU:HA	1.88	0.40
1:D:3213:LYS:O	1:D:3217:GLU:OE1	2.39	0.40
1:D:3274:ASN:HA	1:D:3277:LEU:HG	2.03	0.40
1:D:3322:LEU:O	1:D:3326:LEU:HG	2.22	0.40
1:D:4046:ARG:HG2	1:D:4076:GLU:OE2	2.21	0.40
1:A:1256:PRO:HB2	1:A:1591:LEU:HG	2.03	0.40
1:A:1473:LYS:NZ	1:A:1475:LYS:HB2	2.36	0.40
1:A:2487:LEU:HD12	1:A:2487:LEU:HA	1.94	0.40
1:A:2959:GLU:OE1	1:A:2959:GLU:N	2.53	0.40
1:A:3213:LYS:HA	1:A:3216:GLU:CD	2.42	0.40
1:A:3222:ALA:HA	1:A:3283:ILE:HG22	2.04	0.40
1:A:3965:ILE:HG22	1:A:3969:LYS:HE2	2.03	0.40
1:B:262:TYR:HB2	1:B:389:ARG:HG3	2.04	0.40
1:B:436:LEU:HD13	1:B:518:ALA:HB2	2.03	0.40
1:B:521:GLU:H	1:B:521:GLU:CD	2.24	0.40
1:B:1272:ARG:HH22	1:B:1584:PRO:HA	1.87	0.40
1:B:1473:LYS:NZ	1:B:1475:LYS:HB2	2.36	0.40
1:B:2736:LYS:HE2	1:B:2741:TRP:HB3	2.03	0.40
1:B:4046:ARG:HG2	1:B:4076:GLU:OE2	2.21	0.40
1:C:844:ARG:HG3	1:C:844:ARG:HH11	1.86	0.40
1:C:1552:VAL:HG12	1:C:1553:PHE:HD1	1.87	0.40
1:C:2252:GLU:HB2	1:C:3819:MET:SD	2.62	0.40
1:C:3124:GLU:C	1:C:3126:VAL:H	2.25	0.40
1:C:3215:MET:O	1:C:3219:VAL:HG13	2.21	0.40
1:C:3975:GLN:O	1:C:3979:VAL:HG23	2.21	0.40
1:C:4800:ASP:OD1	1:C:4801:THR:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2322:ARG:HA	1:D:2325:ILE:HG12	2.04	0.40
1:D:2651:ALA:O	1:D:2655:LYS:HB2	2.21	0.40
1:D:3173:THR:HA	1:D:3176:ASP:OD2	2.21	0.40
1:D:3213:LYS:O	1:D:3216:GLU:HG2	2.20	0.40
1:D:3295:TRP:O	1:D:3299:LEU:HG	2.22	0.40
1:D:3994:THR:O	1:D:3998:GLN:HG3	2.22	0.40
1:D:4059:THR:OG1	1:D:4062:GLU:HG3	2.21	0.40
2:H:85:ALA:O	2:H:94:PRO:HB3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4198/4967 (84%)	4097 (98%)	99 (2%)	2 (0%)	100	100
1	B	4198/4967 (84%)	4099 (98%)	97 (2%)	2 (0%)	100	100
1	C	4198/4967 (84%)	4099 (98%)	97 (2%)	2 (0%)	100	100
1	D	4198/4967 (84%)	4098 (98%)	98 (2%)	2 (0%)	100	100
2	E	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
All	All	17212/20300 (85%)	16802 (98%)	402 (2%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2988	ARG
1	A	4641	PRO

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Mol	Chain	Res	Type
1	B	2988	ARG
1	B	4641	PRO
1	C	2988	ARG
1	C	4641	PRO
1	D	2988	ARG
1	D	4641	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3708/4358 (85%)	3676 (99%)	32 (1%)	75	86
1	B	3708/4358 (85%)	3676 (99%)	32 (1%)	75	86
1	C	3708/4358 (85%)	3676 (99%)	32 (1%)	75	86
1	D	3708/4358 (85%)	3676 (99%)	32 (1%)	75	86
2	E	88/89 (99%)	86 (98%)	2 (2%)	45	67
2	F	88/89 (99%)	86 (98%)	2 (2%)	45	67
2	G	88/89 (99%)	86 (98%)	2 (2%)	45	67
2	H	88/89 (99%)	86 (98%)	2 (2%)	45	67
All	All	15184/17788 (85%)	15048 (99%)	136 (1%)	74	86

All (136) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	317	MET
1	A	344	LYS
1	A	882	ARG
1	A	929	ARG
1	A	960	LYS
1	A	995	MET
1	A	999	LEU
1	A	1044	LYS
1	A	1300	MET

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Mol	Chain	Res	Type
1	A	1564	MET
1	A	2172	MET
1	A	2656	LYS
1	A	2681	MET
1	A	2695	MET
1	A	2766	LYS
1	A	2772	ARG
1	A	2791	ARG
1	A	2884	LYS
1	A	2899	ASN
1	A	2950	LYS
1	A	3018	ARG
1	A	3057	LEU
1	A	3072	MET
1	A	3123	LEU
1	A	3190	ARG
1	A	3215	MET
1	A	3227	ARG
1	A	3248	ARG
1	A	3316	LYS
1	A	4002	MET
1	A	4256	MET
1	A	4504	MET
2	E	18	LYS
2	E	45	LYS
1	B	317	MET
1	B	344	LYS
1	B	882	ARG
1	B	929	ARG
1	B	960	LYS
1	B	995	MET
1	B	999	LEU
1	B	1044	LYS
1	B	1300	MET
1	B	1564	MET
1	B	2172	MET
1	B	2656	LYS
1	B	2681	MET
1	B	2695	MET
1	B	2766	LYS
1	B	2772	ARG
1	B	2791	ARG

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Mol	Chain	Res	Type
1	B	2884	LYS
1	B	2899	ASN
1	B	2950	LYS
1	B	3018	ARG
1	B	3057	LEU
1	B	3072	MET
1	B	3123	LEU
1	B	3190	ARG
1	B	3215	MET
1	B	3227	ARG
1	B	3248	ARG
1	B	3316	LYS
1	B	4002	MET
1	B	4256	MET
1	B	4504	MET
1	C	317	MET
1	C	344	LYS
1	C	882	ARG
1	C	929	ARG
1	C	960	LYS
1	C	995	MET
1	C	999	LEU
1	C	1044	LYS
1	C	1300	MET
1	C	1564	MET
1	C	2172	MET
1	C	2656	LYS
1	C	2681	MET
1	C	2695	MET
1	C	2766	LYS
1	C	2772	ARG
1	C	2791	ARG
1	C	2884	LYS
1	C	2899	ASN
1	C	2950	LYS
1	C	3018	ARG
1	C	3057	LEU
1	C	3072	MET
1	C	3123	LEU
1	C	3190	ARG
1	C	3215	MET
1	C	3227	ARG

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Mol	Chain	Res	Type
1	C	3248	ARG
1	C	3316	LYS
1	C	4002	MET
1	C	4256	MET
1	C	4504	MET
1	D	317	MET
1	D	344	LYS
1	D	882	ARG
1	D	929	ARG
1	D	960	LYS
1	D	995	MET
1	D	999	LEU
1	D	1044	LYS
1	D	1300	MET
1	D	1564	MET
1	D	2172	MET
1	D	2656	LYS
1	D	2681	MET
1	D	2695	MET
1	D	2766	LYS
1	D	2772	ARG
1	D	2791	ARG
1	D	2884	LYS
1	D	2899	ASN
1	D	2950	LYS
1	D	3018	ARG
1	D	3057	LEU
1	D	3072	MET
1	D	3123	LEU
1	D	3190	ARG
1	D	3215	MET
1	D	3227	ARG
1	D	3248	ARG
1	D	3316	LYS
1	D	4002	MET
1	D	4256	MET
1	D	4504	MET
2	F	18	LYS
2	F	45	LYS
2	G	18	LYS
2	G	45	LYS
2	H	18	LYS

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Mol	Chain	Res	Type
2	H	45	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (39) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	29	HIS
1	A	604	HIS
1	A	658	ASN
1	A	2704	GLN
1	A	3111	HIS
1	A	3114	GLN
1	A	3178	HIS
1	A	3274	ASN
1	A	4055	HIS
2	E	26	HIS
1	B	29	HIS
1	B	658	ASN
1	B	2704	GLN
1	B	3111	HIS
1	B	3114	GLN
1	B	3178	HIS
1	B	3274	ASN
1	B	4055	HIS
1	C	29	HIS
1	C	604	HIS
1	C	658	ASN
1	C	2704	GLN
1	C	3111	HIS
1	C	3114	GLN
1	C	3178	HIS
1	C	3274	ASN
1	C	4055	HIS
1	D	29	HIS
1	D	604	HIS
1	D	658	ASN
1	D	2704	GLN
1	D	3111	HIS
1	D	3114	GLN
1	D	3178	HIS
1	D	3274	ASN
1	D	4055	HIS
2	F	26	HIS

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Mol	Chain	Res	Type
2	G	26	HIS
2	H	26	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	ATP	B	5003	-	28,33,33	0.63	0	34,52,52	0.59	1 (2%)
4	ATP	A	5002	-	28,33,33	0.68	0	34,52,52	0.69	1 (2%)
4	ATP	B	5002	-	28,33,33	0.67	0	34,52,52	0.69	1 (2%)
4	ATP	A	5003	-	28,33,33	0.63	0	34,52,52	0.58	1 (2%)
4	ATP	D	5002	-	28,33,33	0.68	0	34,52,52	0.70	2 (5%)
4	ATP	C	5003	-	28,33,33	0.62	0	34,52,52	0.59	1 (2%)
4	ATP	D	5003	-	28,33,33	0.63	0	34,52,52	0.59	1 (2%)
4	ATP	C	5002	-	28,33,33	0.68	0	34,52,52	0.69	1 (2%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ATP	B	5003	-	-	7/18/38/38	0/3/3/3
4	ATP	A	5002	-	-	8/18/38/38	0/3/3/3
4	ATP	B	5002	-	-	8/18/38/38	0/3/3/3
4	ATP	A	5003	-	-	7/18/38/38	0/3/3/3
4	ATP	D	5002	-	-	8/18/38/38	0/3/3/3
4	ATP	C	5003	-	-	7/18/38/38	0/3/3/3
4	ATP	D	5003	-	-	7/18/38/38	0/3/3/3
4	ATP	C	5002	-	-	8/18/38/38	0/3/3/3

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	5003	ATP	C5-C6-N6	2.34	123.87	120.31
4	B	5003	ATP	C5-C6-N6	2.32	123.84	120.31
4	C	5002	ATP	C5-C6-N6	2.31	123.84	120.31
4	A	5002	ATP	C5-C6-N6	2.31	123.82	120.31
4	D	5002	ATP	C5-C6-N6	2.30	123.81	120.31
4	D	5003	ATP	C5-C6-N6	2.29	123.80	120.31
4	A	5003	ATP	C5-C6-N6	2.29	123.80	120.31
4	B	5002	ATP	C5-C6-N6	2.27	123.76	120.31
4	D	5002	ATP	C4'-O4'-C1'	-2.01	108.09	109.92

There are no chirality outliers.

All (60) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	5002	ATP	C5'-O5'-PA-O1A
4	A	5002	ATP	C5'-O5'-PA-O3A
4	A	5003	ATP	C5'-O5'-PA-O1A
4	A	5003	ATP	C5'-O5'-PA-O2A
4	A	5003	ATP	C5'-O5'-PA-O3A
4	A	5003	ATP	O4'-C4'-C5'-O5'
4	B	5002	ATP	C5'-O5'-PA-O1A
4	B	5002	ATP	C5'-O5'-PA-O3A
4	B	5003	ATP	C5'-O5'-PA-O1A
4	B	5003	ATP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
4	B	5003	ATP	C5'-O5'-PA-O3A
4	B	5003	ATP	O4'-C4'-C5'-O5'
4	C	5002	ATP	C5'-O5'-PA-O1A
4	C	5002	ATP	C5'-O5'-PA-O3A
4	C	5003	ATP	C5'-O5'-PA-O1A
4	C	5003	ATP	C5'-O5'-PA-O2A
4	C	5003	ATP	C5'-O5'-PA-O3A
4	C	5003	ATP	O4'-C4'-C5'-O5'
4	D	5002	ATP	C5'-O5'-PA-O1A
4	D	5002	ATP	C5'-O5'-PA-O3A
4	D	5003	ATP	C5'-O5'-PA-O1A
4	D	5003	ATP	C5'-O5'-PA-O2A
4	D	5003	ATP	C5'-O5'-PA-O3A
4	D	5003	ATP	O4'-C4'-C5'-O5'
4	A	5003	ATP	C3'-C4'-C5'-O5'
4	B	5003	ATP	C3'-C4'-C5'-O5'
4	C	5003	ATP	C3'-C4'-C5'-O5'
4	D	5003	ATP	C3'-C4'-C5'-O5'
4	B	5003	ATP	PA-O3A-PB-O3B
4	D	5003	ATP	PA-O3A-PB-O3B
4	A	5002	ATP	PB-O3A-PA-O1A
4	B	5002	ATP	PB-O3A-PA-O1A
4	C	5002	ATP	PB-O3A-PA-O1A
4	D	5002	ATP	PB-O3A-PA-O1A
4	A	5003	ATP	PA-O3A-PB-O3B
4	C	5003	ATP	PA-O3A-PB-O3B
4	A	5002	ATP	PB-O3A-PA-O5'
4	A	5003	ATP	PB-O3A-PA-O5'
4	B	5002	ATP	PB-O3A-PA-O5'
4	B	5003	ATP	PB-O3A-PA-O5'
4	C	5002	ATP	PB-O3A-PA-O5'
4	C	5003	ATP	PB-O3A-PA-O5'
4	D	5002	ATP	PB-O3A-PA-O5'
4	D	5003	ATP	PB-O3A-PA-O5'
4	A	5002	ATP	C5'-O5'-PA-O2A
4	B	5002	ATP	C5'-O5'-PA-O2A
4	C	5002	ATP	C5'-O5'-PA-O2A
4	D	5002	ATP	C5'-O5'-PA-O2A
4	A	5002	ATP	PG-O3B-PB-O3A
4	B	5002	ATP	PG-O3B-PB-O3A
4	C	5002	ATP	PG-O3B-PB-O3A
4	D	5002	ATP	PG-O3B-PB-O3A

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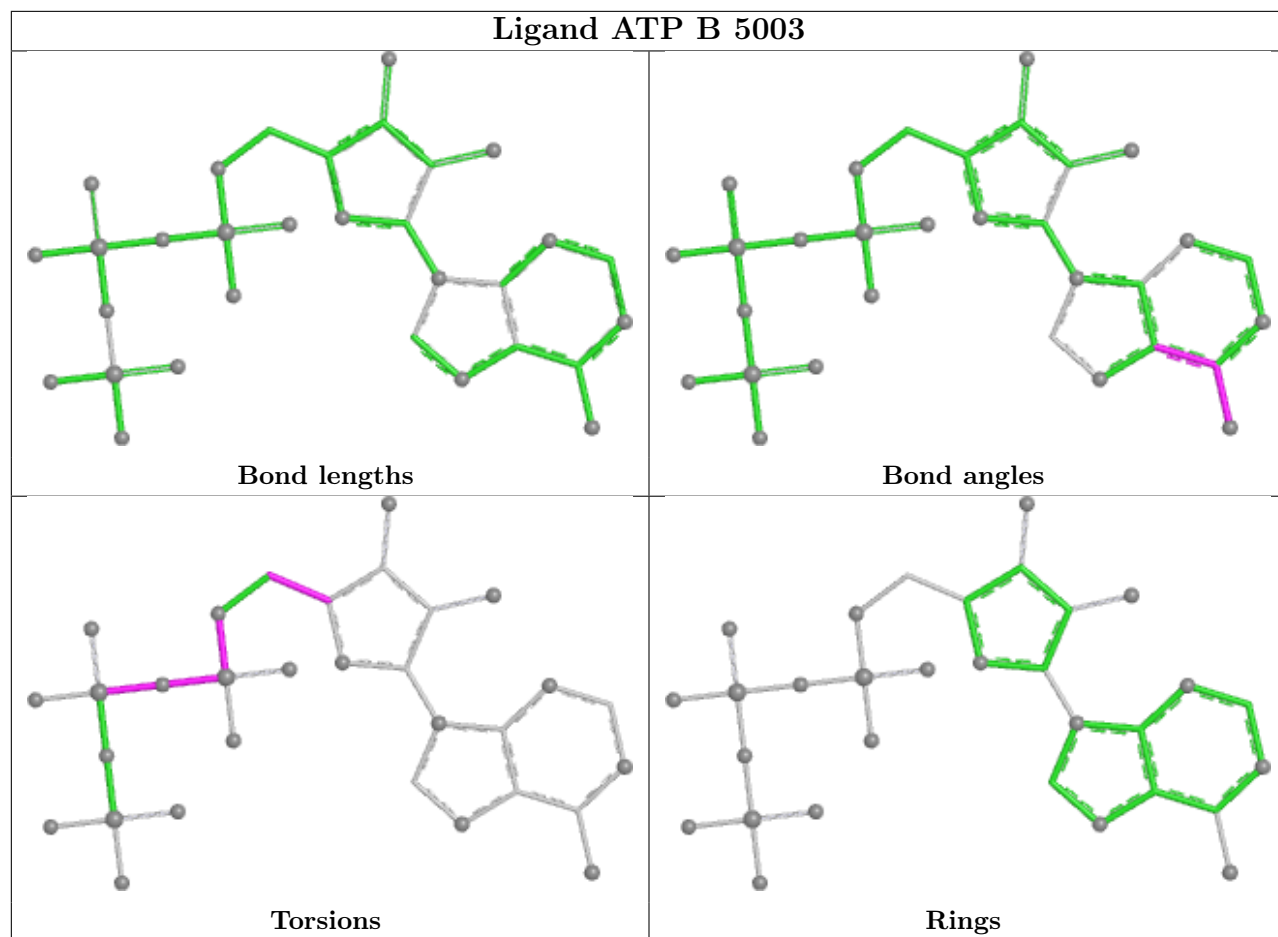
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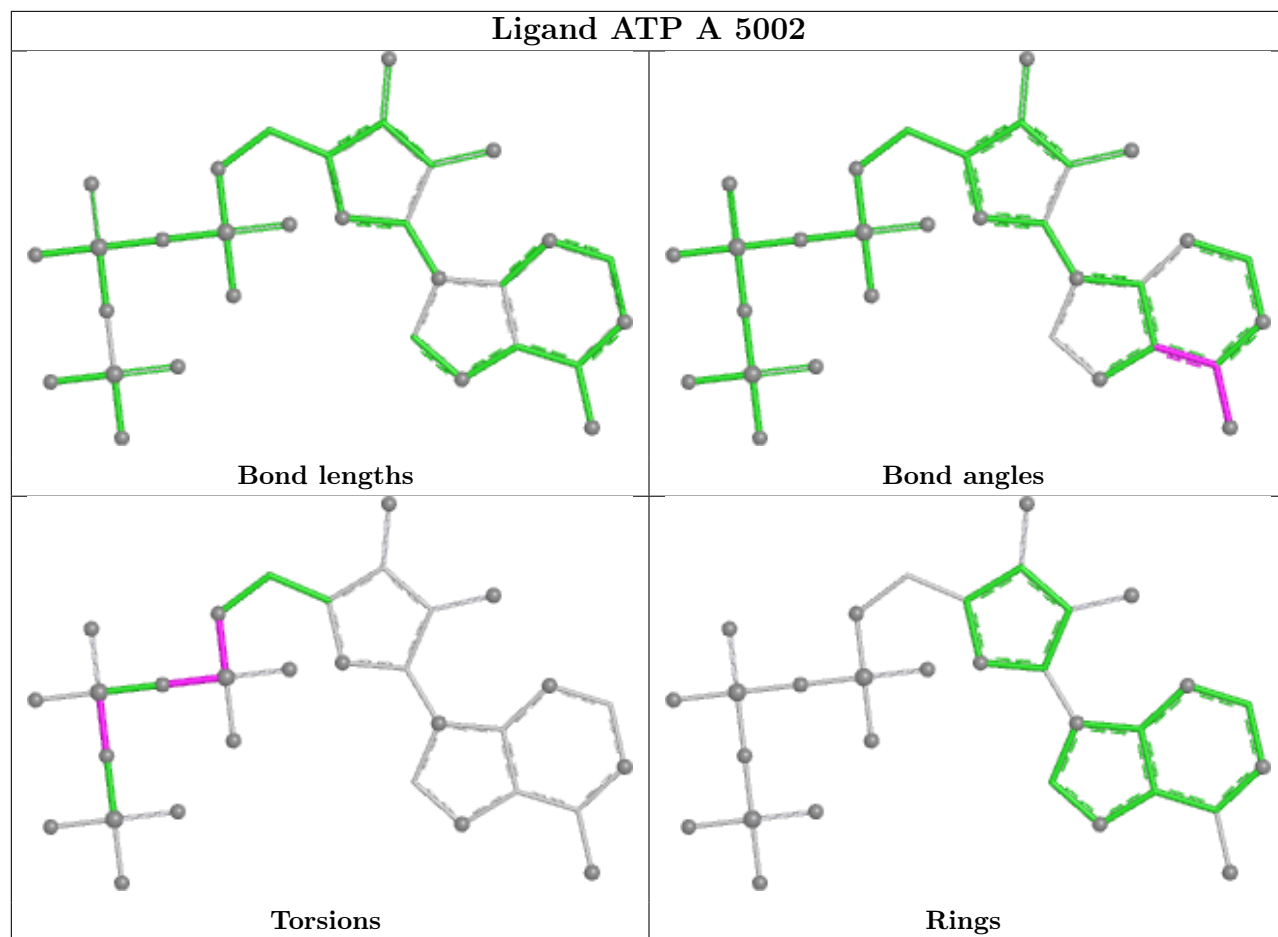
Mol	Chain	Res	Type	Atoms
4	A	5002	ATP	PG-O3B-PB-O1B
4	A	5002	ATP	PG-O3B-PB-O2B
4	B	5002	ATP	PG-O3B-PB-O1B
4	B	5002	ATP	PG-O3B-PB-O2B
4	C	5002	ATP	PG-O3B-PB-O1B
4	C	5002	ATP	PG-O3B-PB-O2B
4	D	5002	ATP	PG-O3B-PB-O1B
4	D	5002	ATP	PG-O3B-PB-O2B

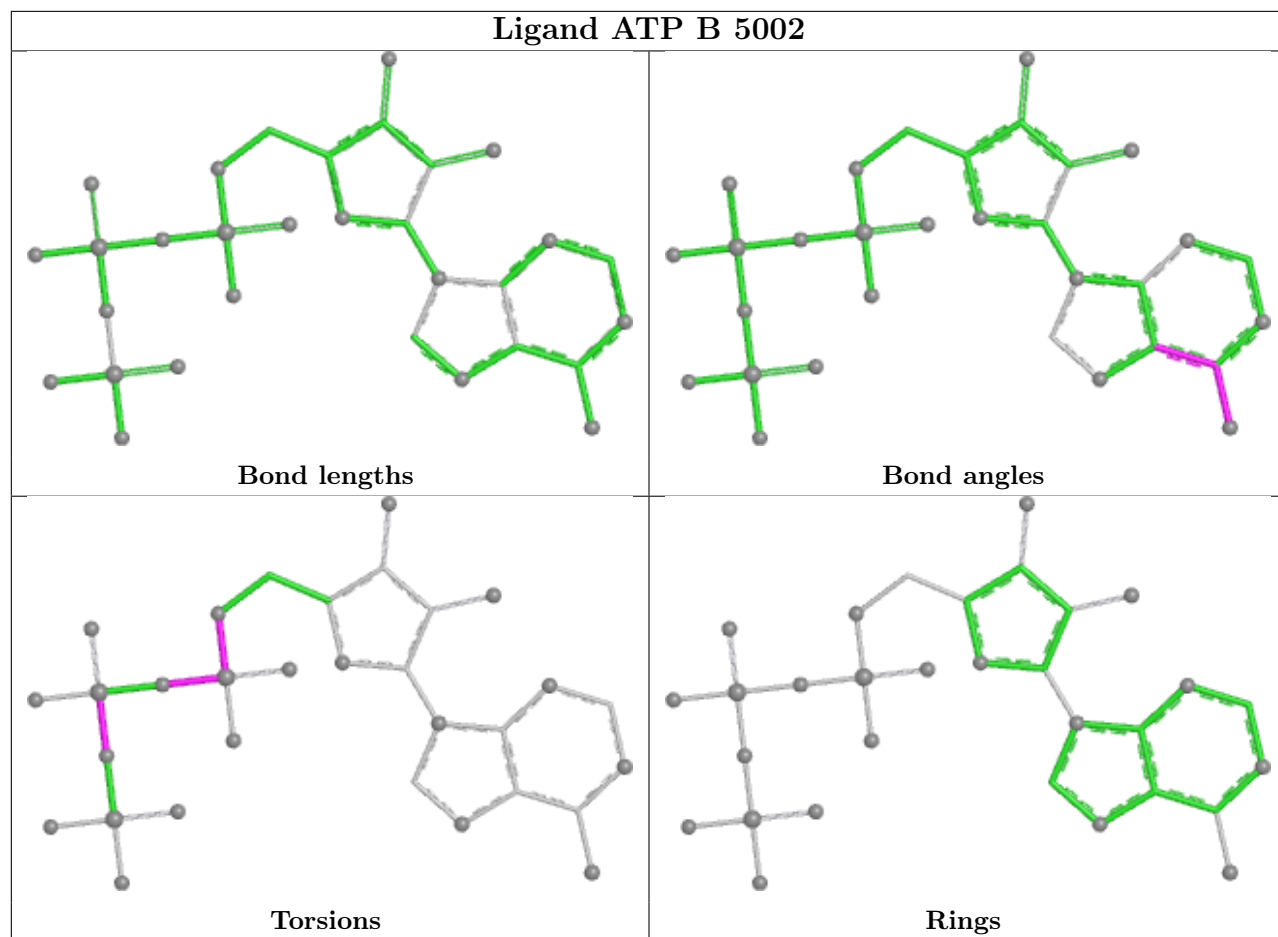
There are no ring outliers.

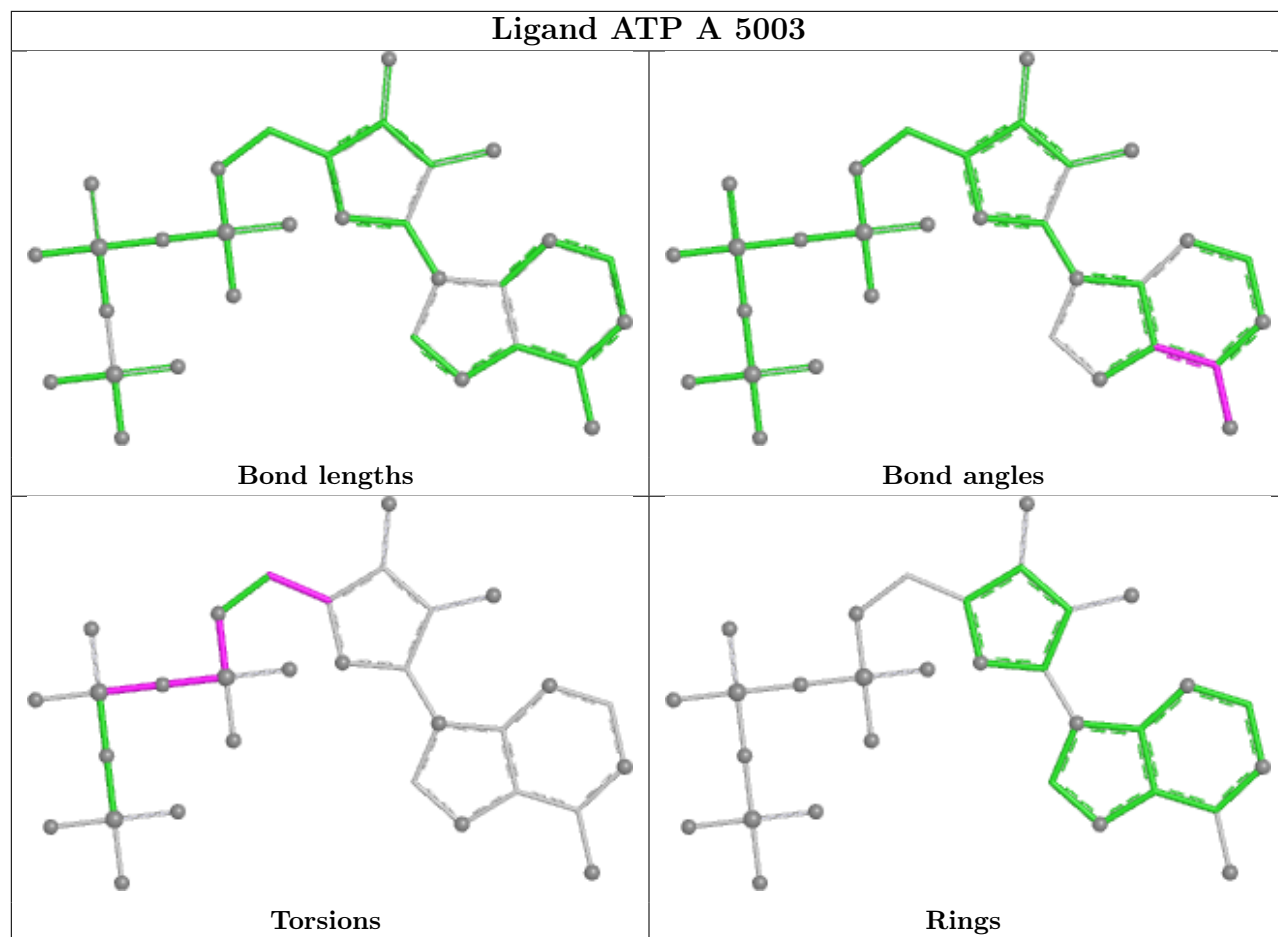
No monomer is involved in short contacts.

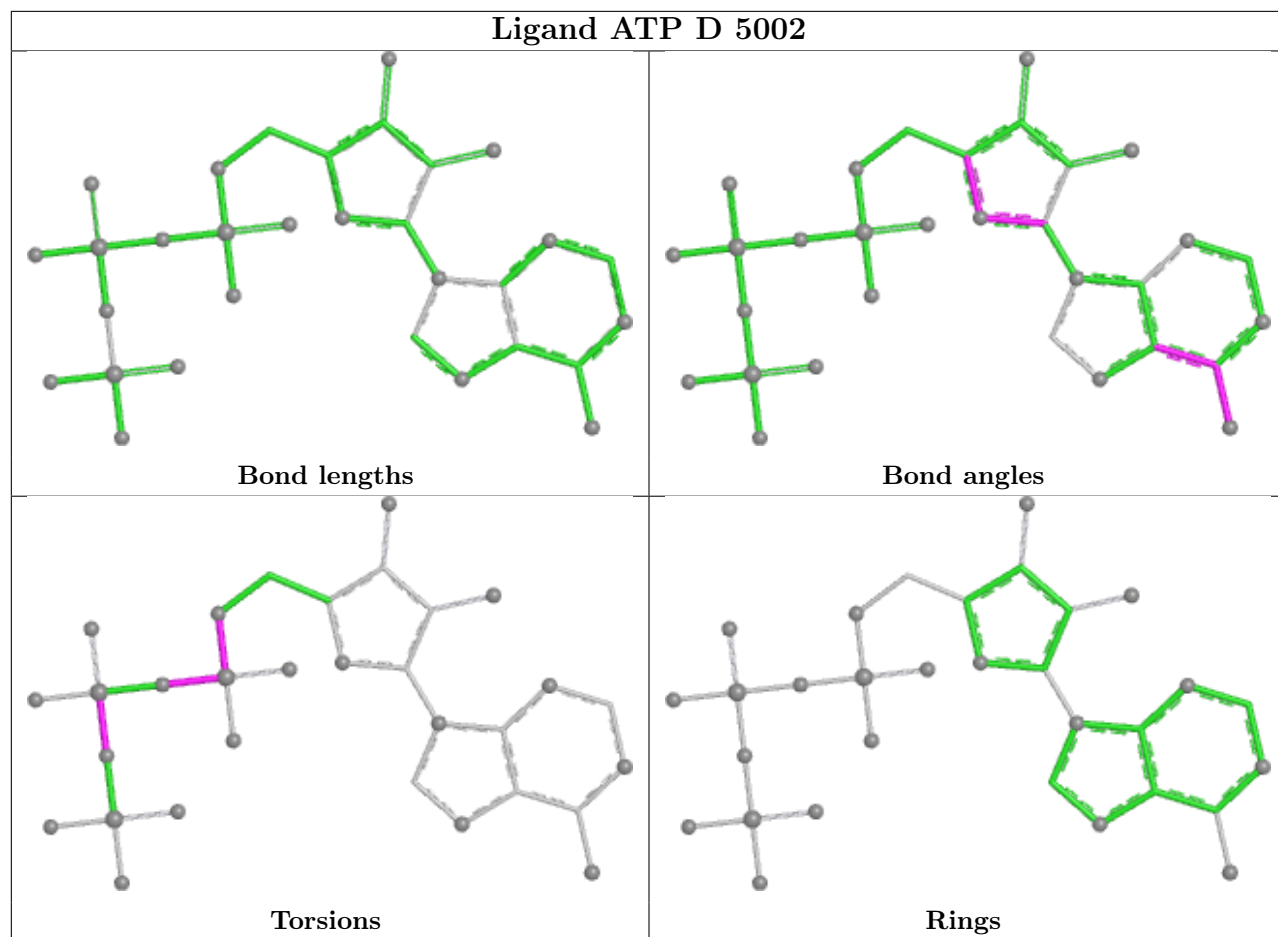
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

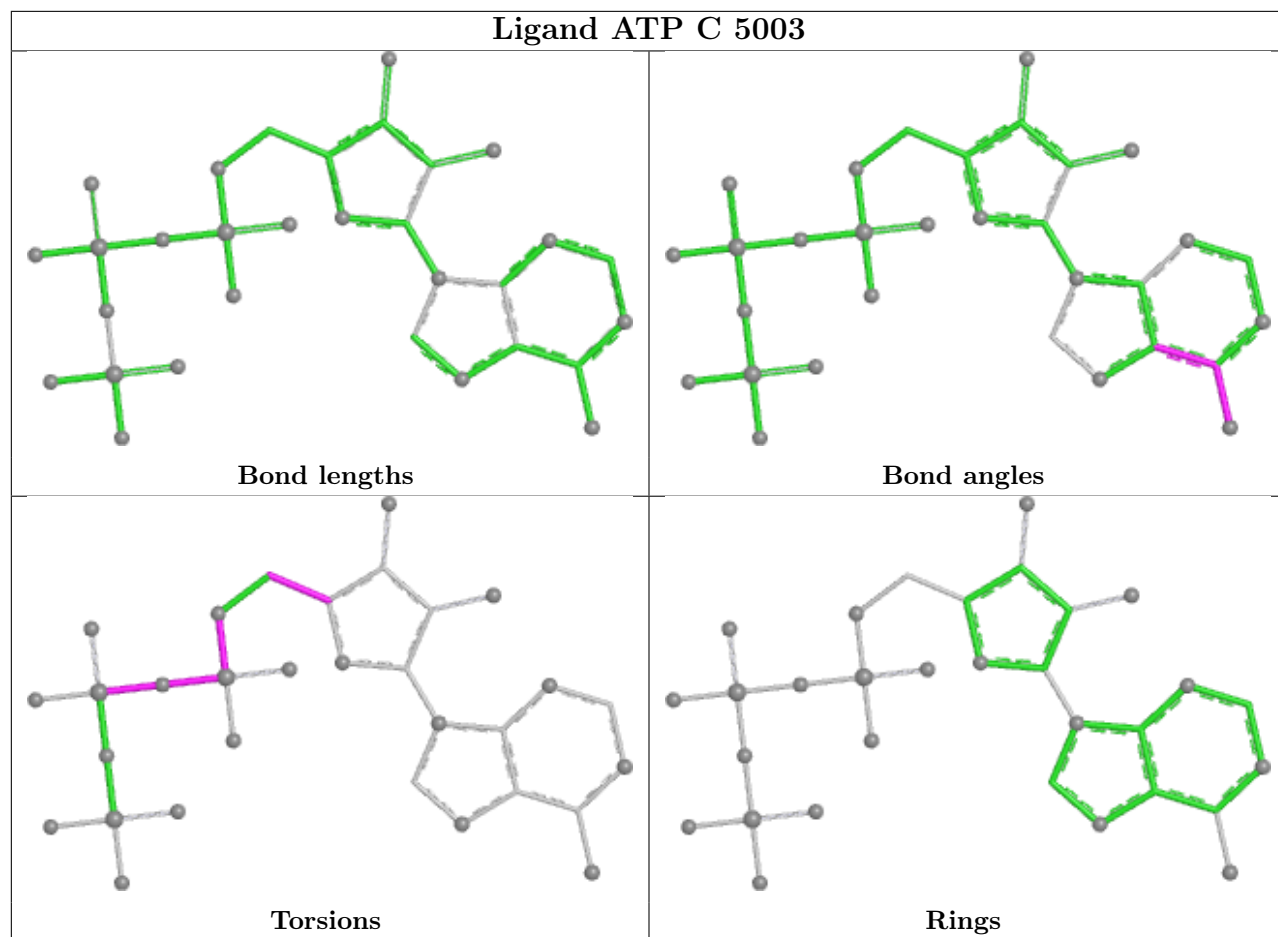


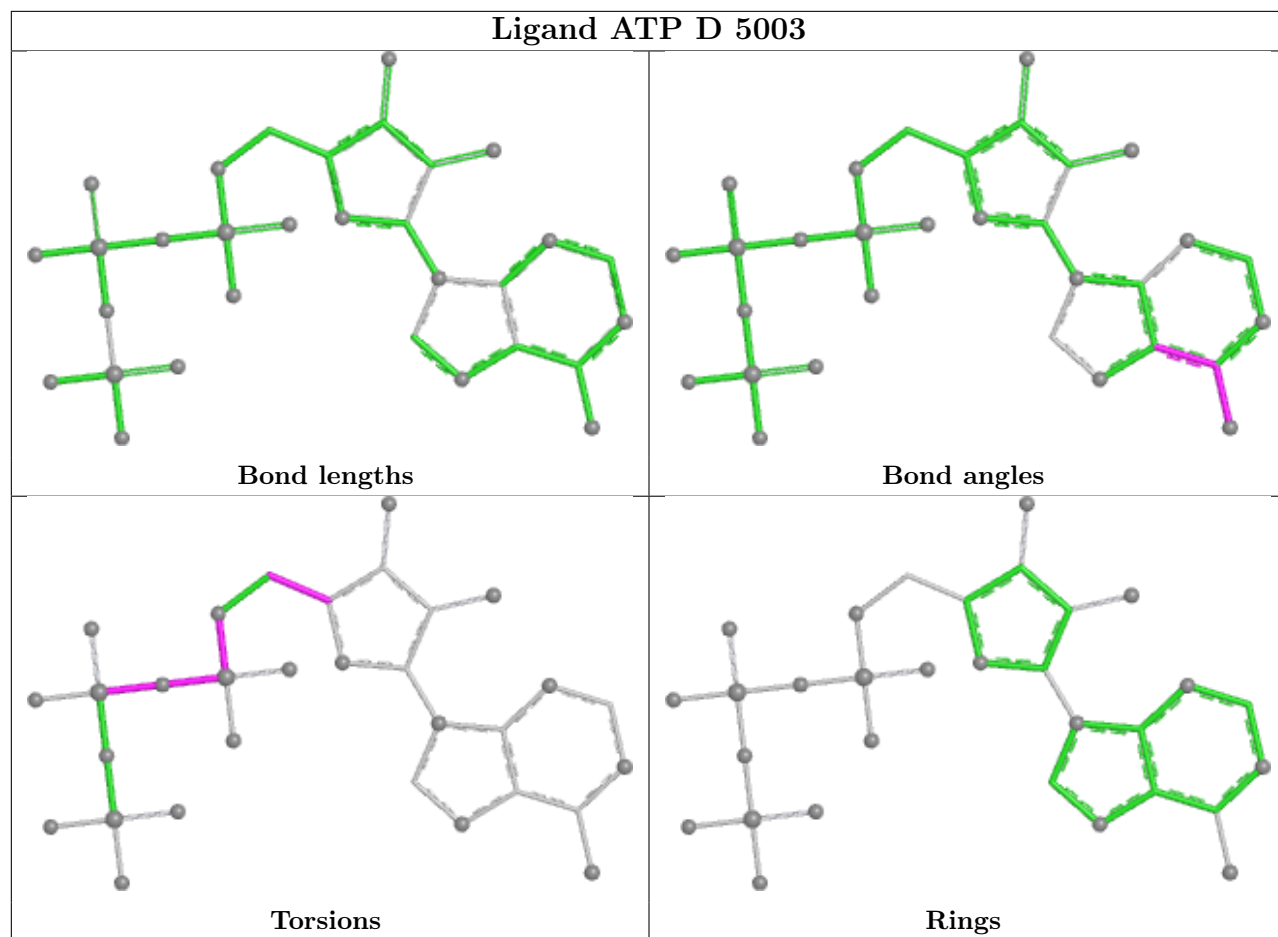


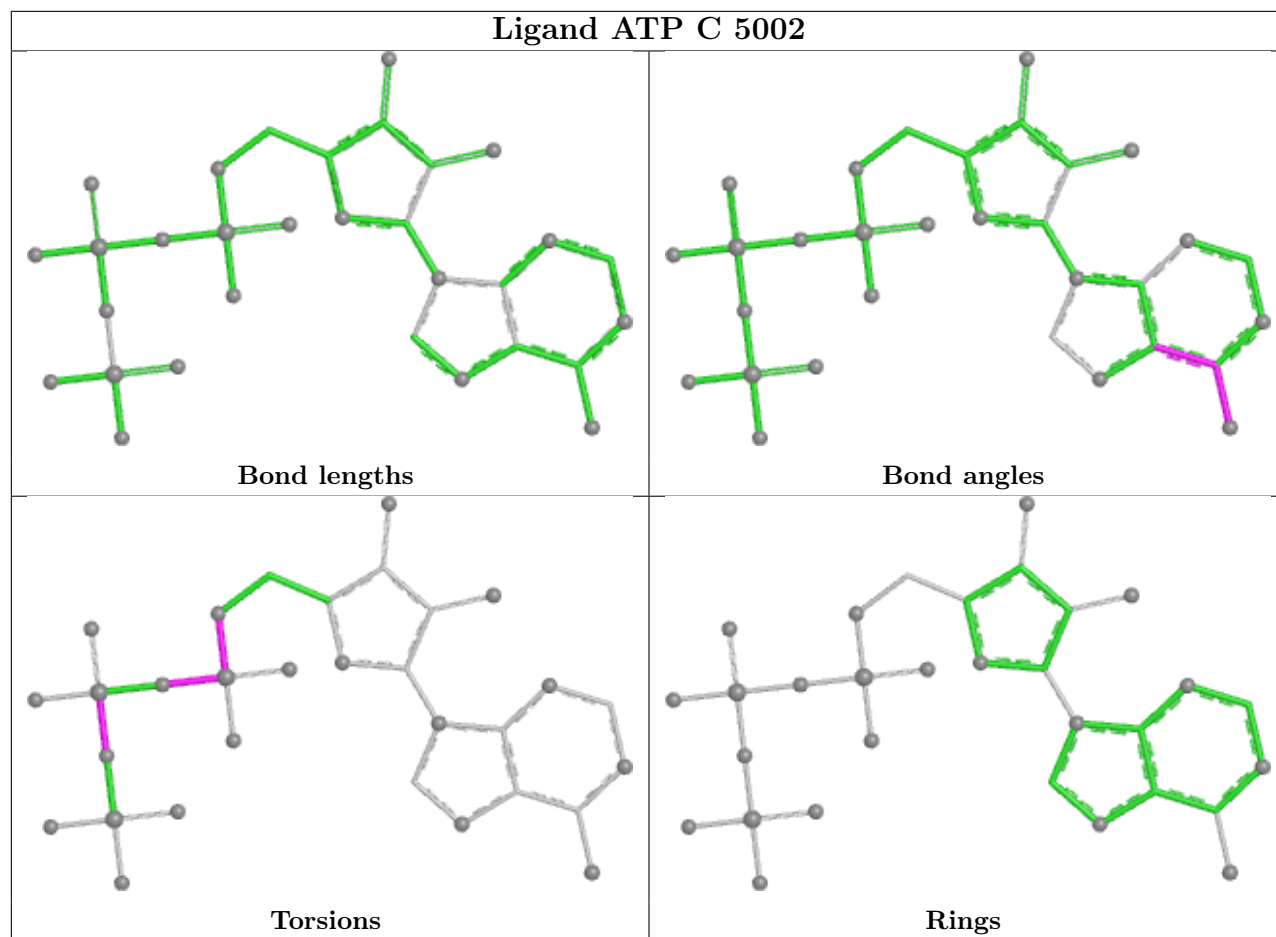












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-42762. These allow visual inspection of the internal detail of the map and identification of artifacts.

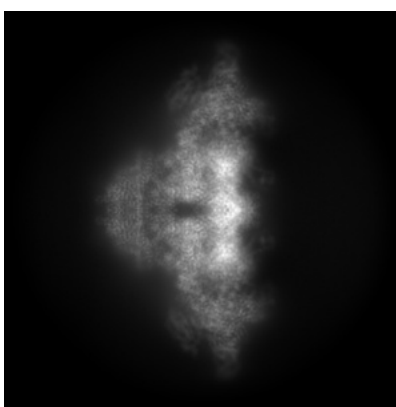
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

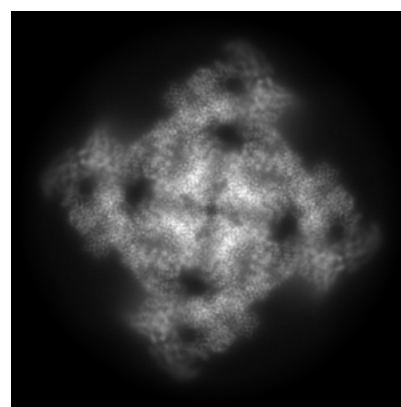
6.1.1 Primary map



X



Y

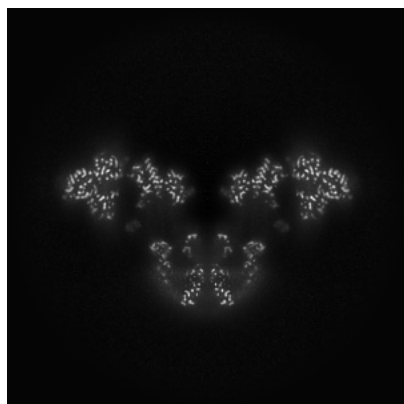


Z

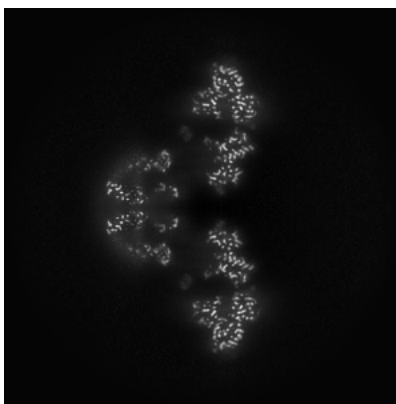
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

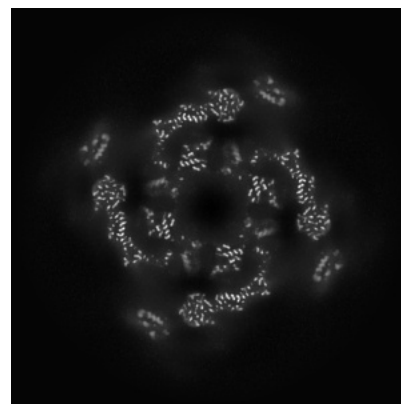
6.2.1 Primary map



X Index: 256



Y Index: 256

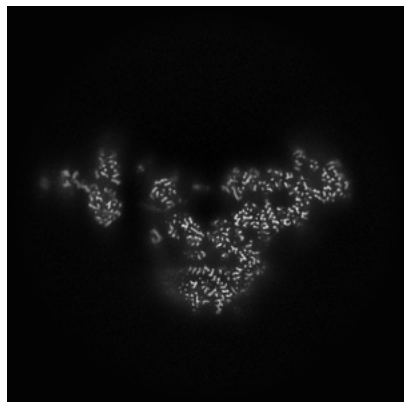


Z Index: 256

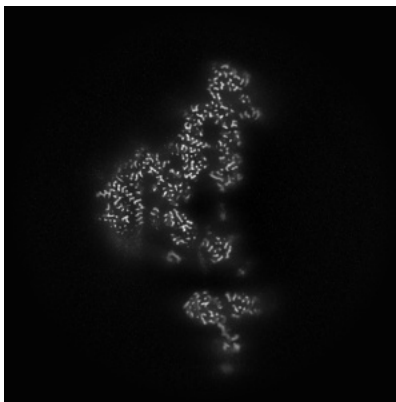
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

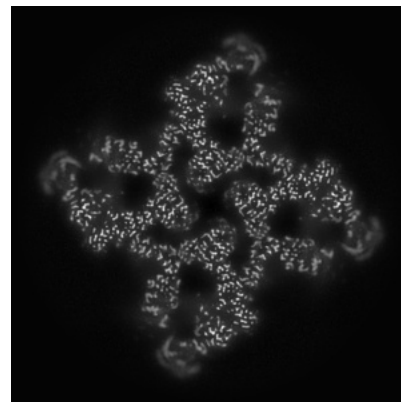
6.3.1 Primary map



X Index: 238



Y Index: 274



Z Index: 282

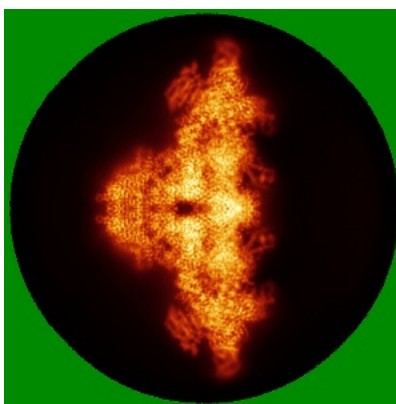
The images above show the largest variance slices of the map in three orthogonal directions.

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

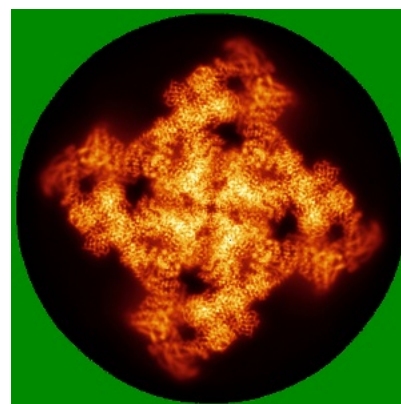
6.4.1 Primary map



X



Y

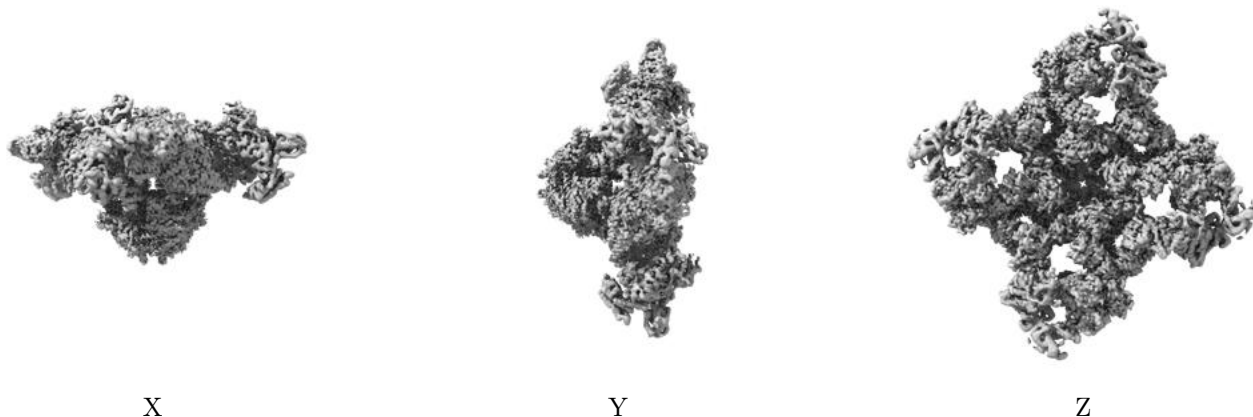


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.12. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

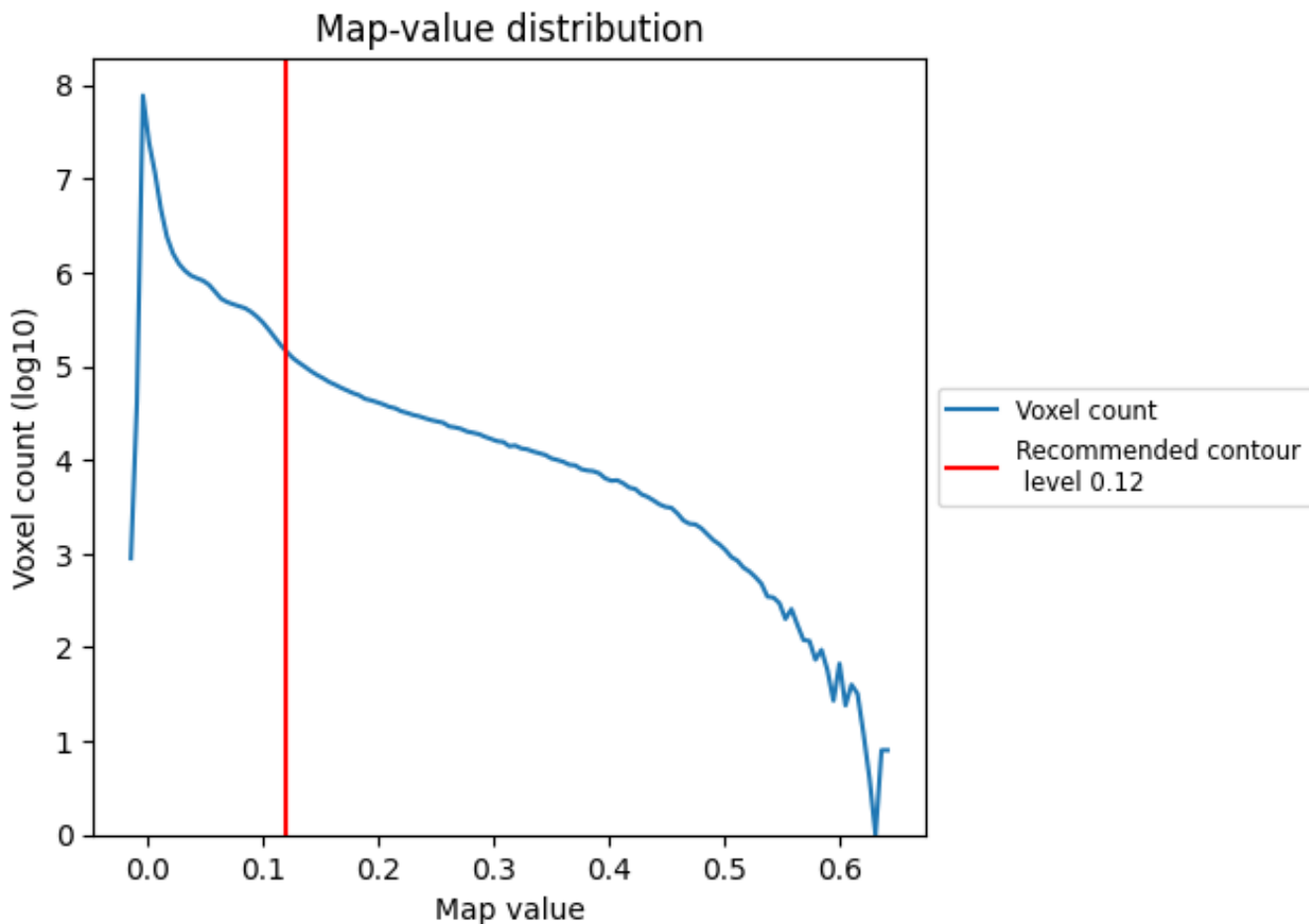
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

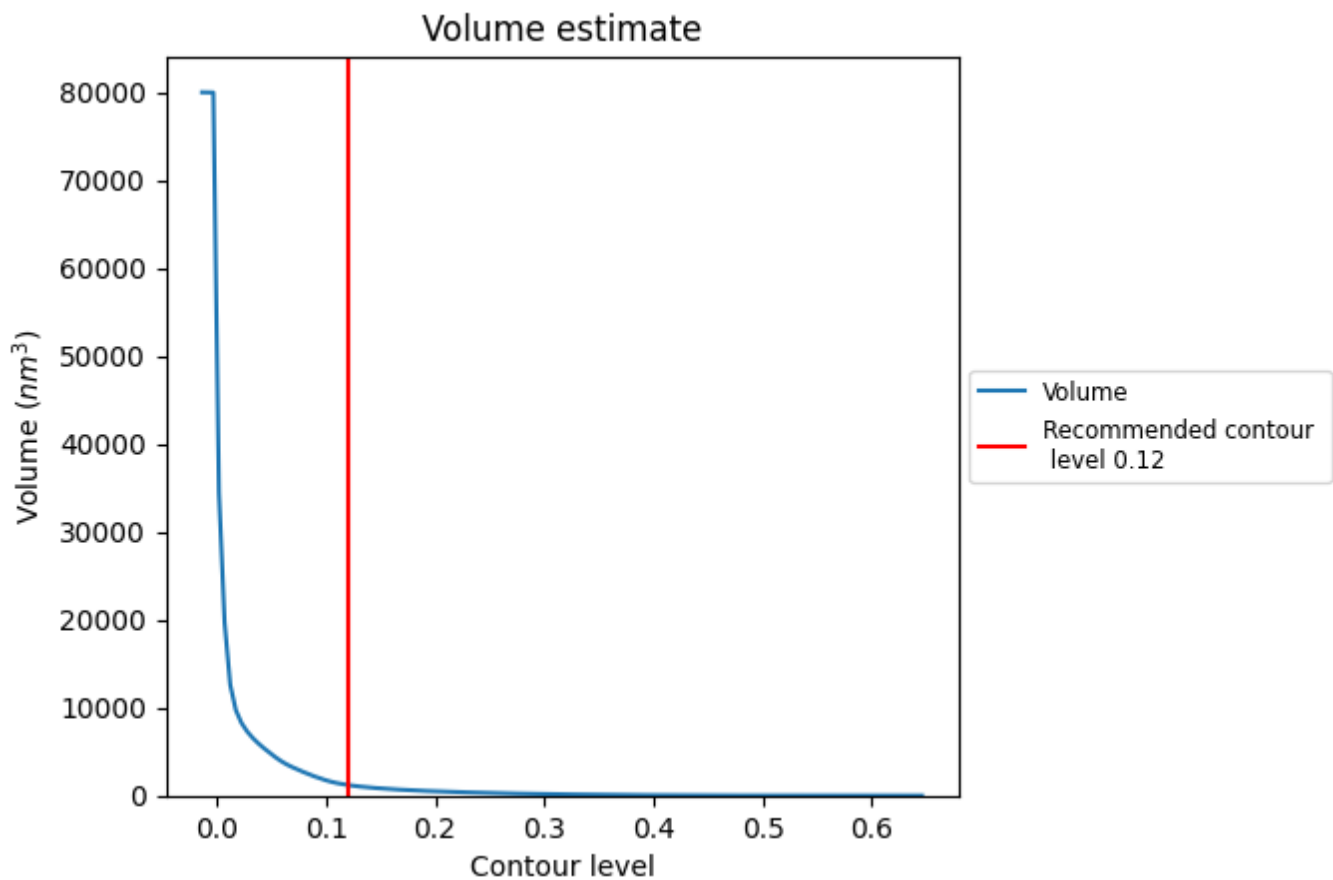
This section contains the results of statistical analysis of the map.

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.

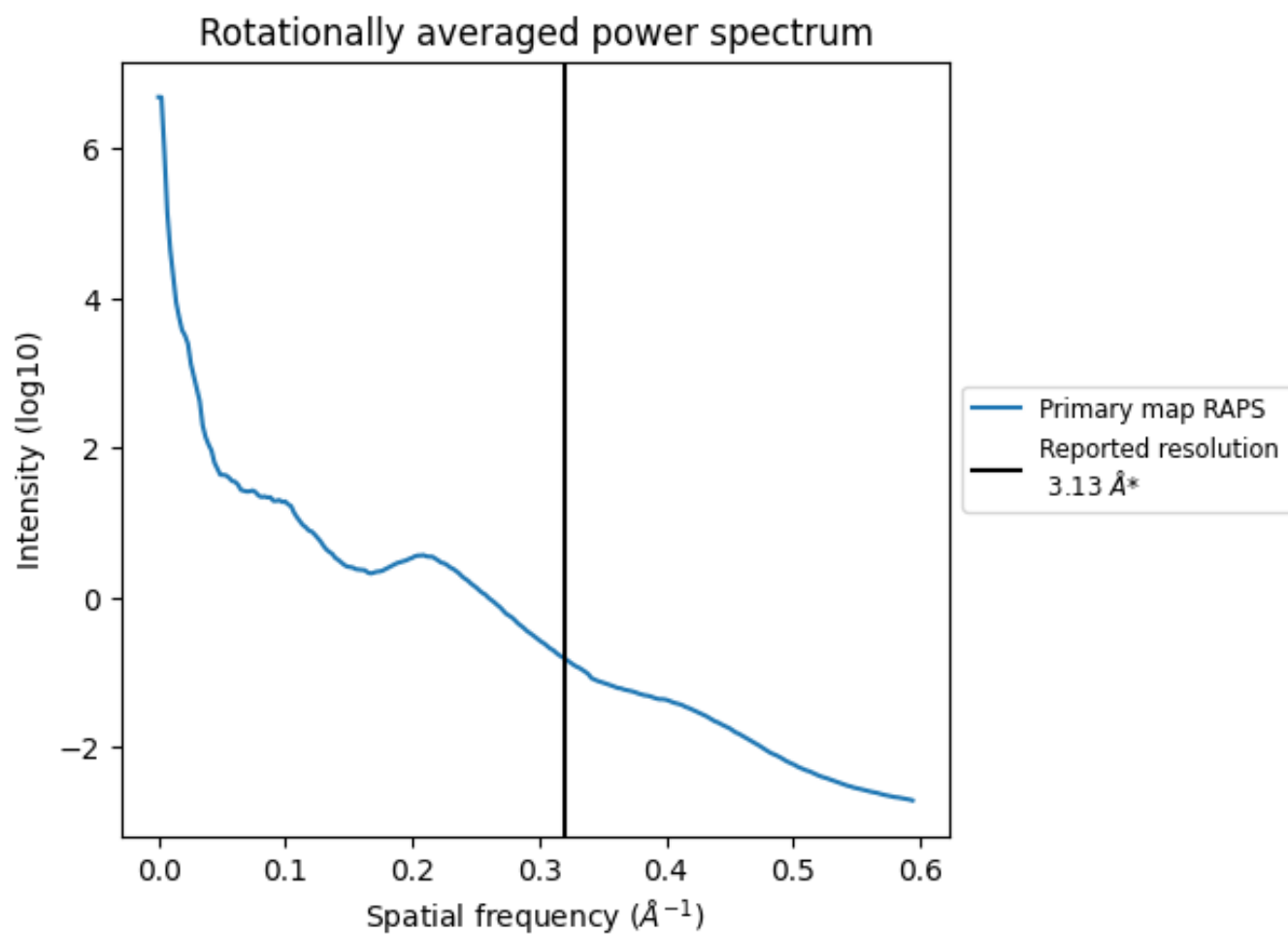
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1200 nm^3 ; this corresponds to an approximate mass of 1084 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.319 Å⁻¹

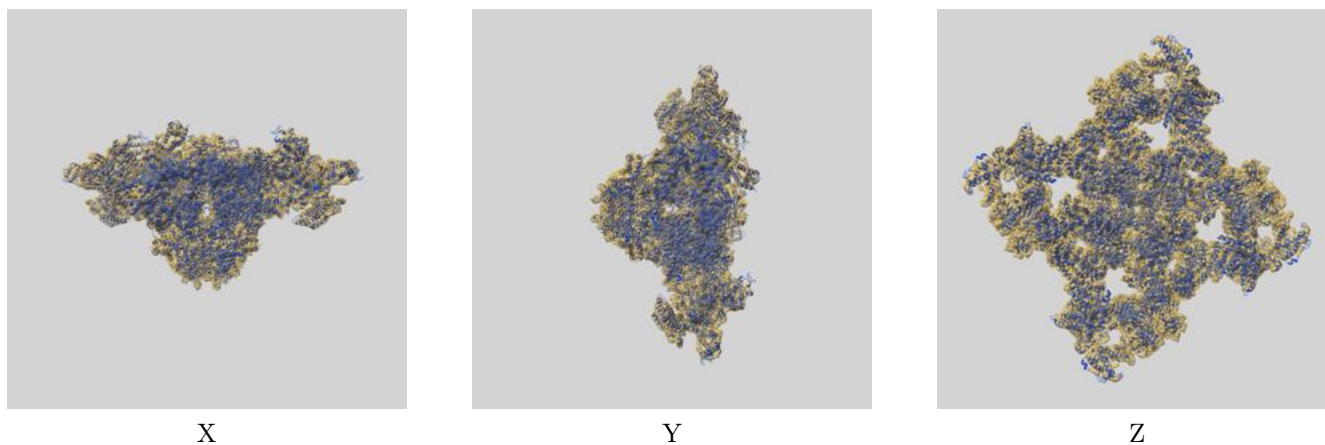
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

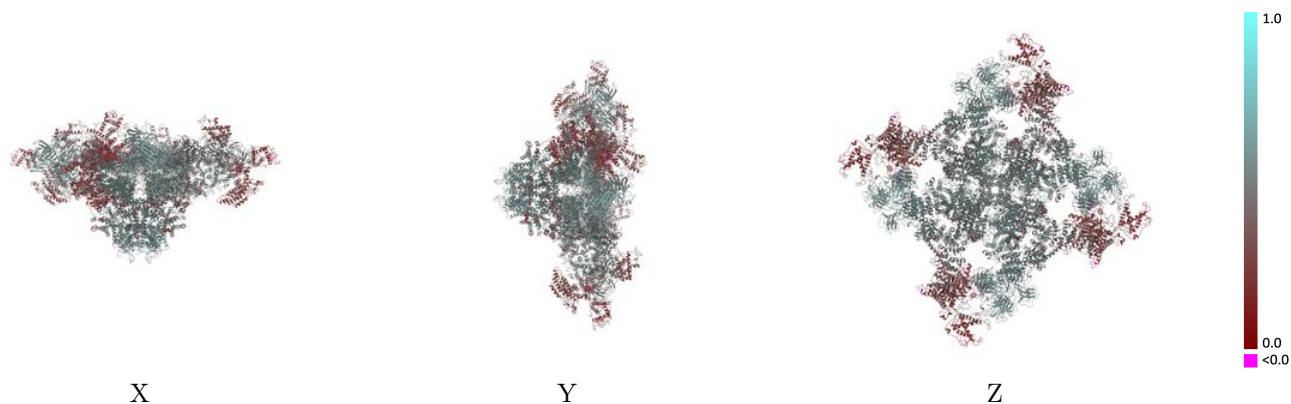
This section contains information regarding the fit between EMDB map EMD-42762 and PDB model 8UXF. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



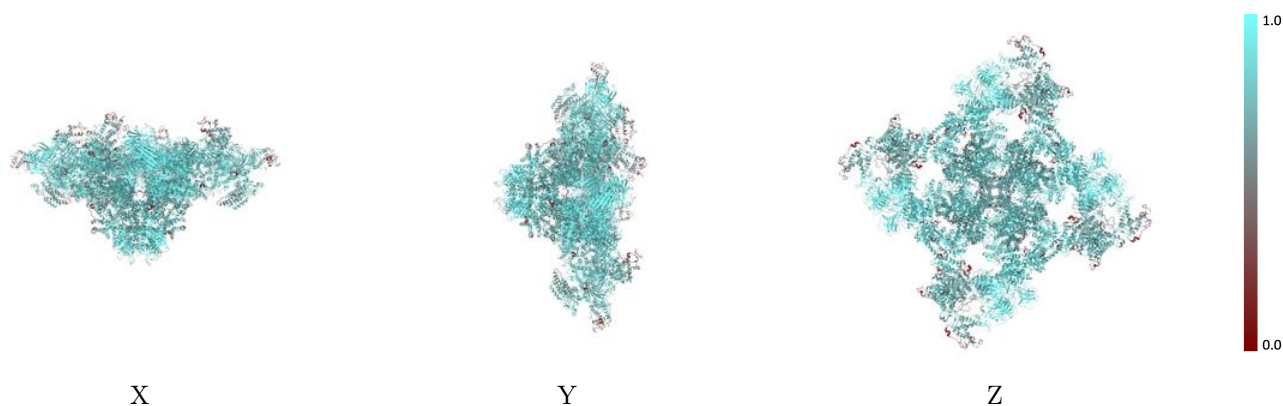
The images above show the 3D surface view of the map at the recommended contour level 0.12 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



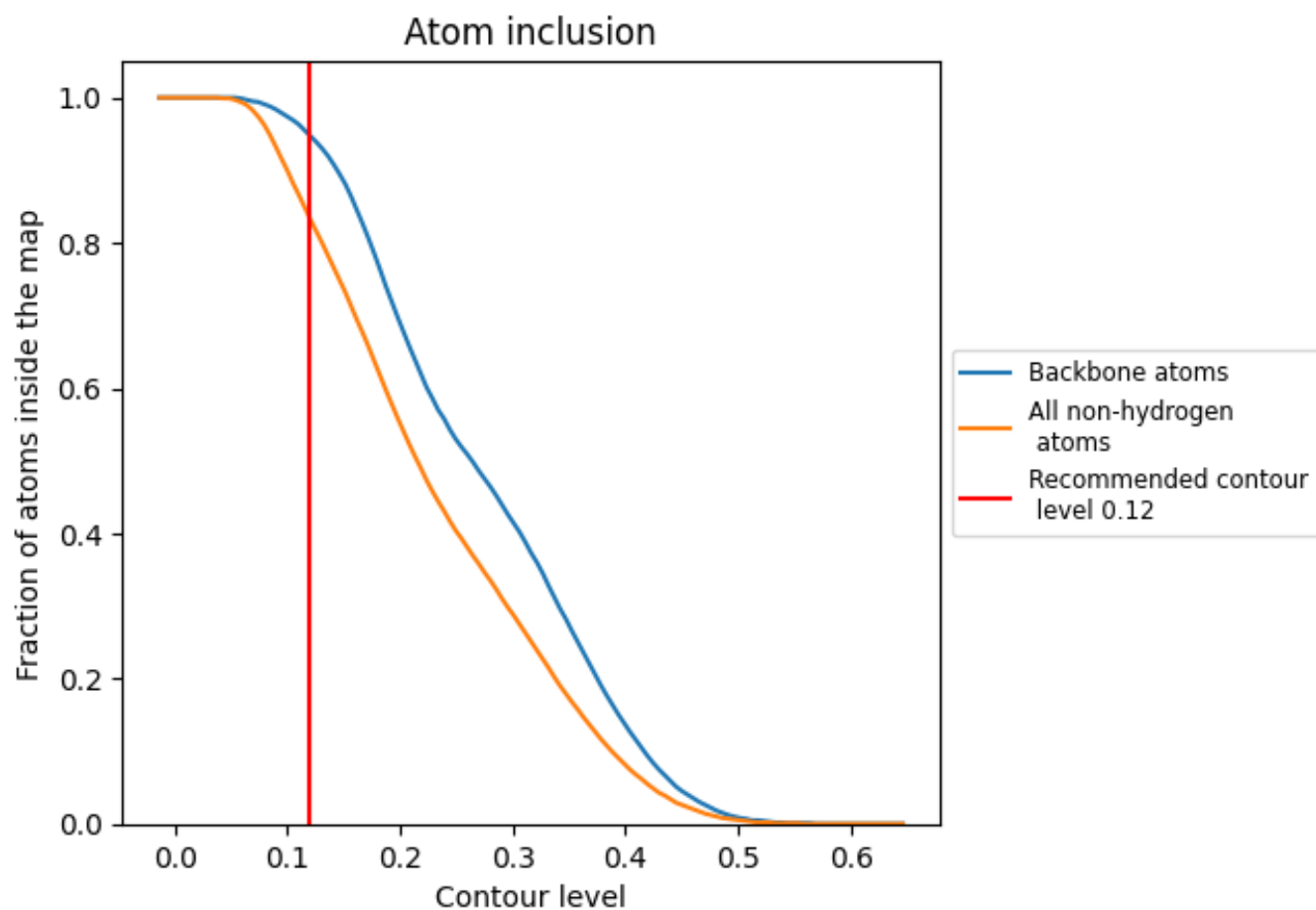
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.12).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 83% 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 (0.12) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8330	 0.4540
A	 0.8300	 0.4510
B	 0.8300	 0.4510
C	 0.8310	 0.4530
D	 0.8310	 0.4520
E	 0.9430	 0.5530
F	 0.9420	 0.5530
G	 0.9430	 0.5540
H	 0.9440	 0.5540

