



Full wwPDB EM Validation Report ⓘ

Dec 16, 2024 – 08:40 PM EST

PDB ID : 7M6A
EMDB ID : EMD-23692
Title : High resolution structure of the membrane embedded skeletal muscle ryanodine receptor
Authors : Melville, Z.; Kim, K.; Clarke, O.B.; Marks, A.R.
Deposited on : 2021-03-25
Resolution : 3.36 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.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) : 2.40

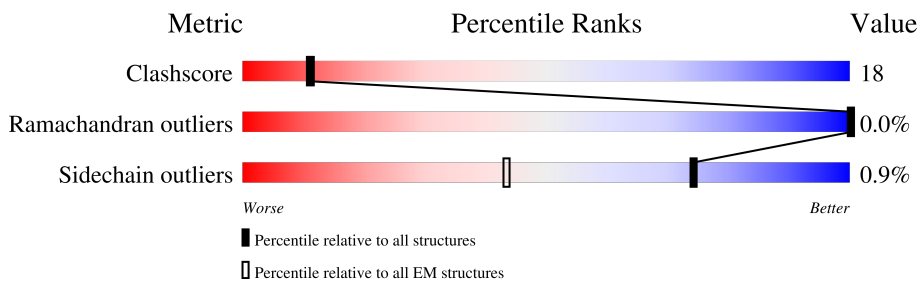
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.36 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	F	108	67% 29% ..
1	H	108	67% 30% ..
1	J	108	69% 28% ..
1	O	108	68% 28% ..
2	A	5037	11% 60% 25% 15%
2	B	5037	11% 60% 25% 15%
2	G	5037	11% 60% 25% 15%
2	I	5037	11% 60% 25% 15%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 140632 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

- Molecule 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	A	4306	34293	21843	5903	6312	235	0	0
2	G	4306	34293	21843	5903	6312	235	0	0
2	B	4306	34293	21843	5903	6312	235	0	0
2	I	4306	34293	21843	5903	6312	235	0	0

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



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

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	G	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	I	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

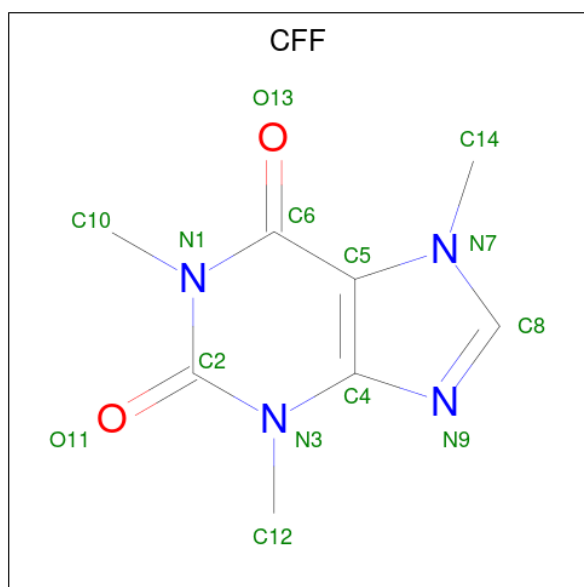
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	G	1	Total	Zn	0
			1	1	
5	B	1	Total	Zn	0
			1	1	
5	I	1	Total	Zn	0
			1	1	

- Molecule 6 is CAFFEINE (three-letter code: CFF) (formula: $C_8H_{10}N_4O_2$).

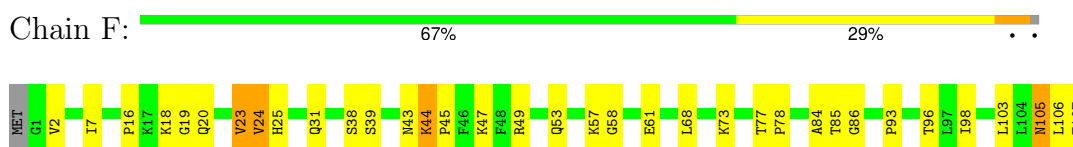


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	I	1	Total	C	N	O	0
			14	8	4	2	

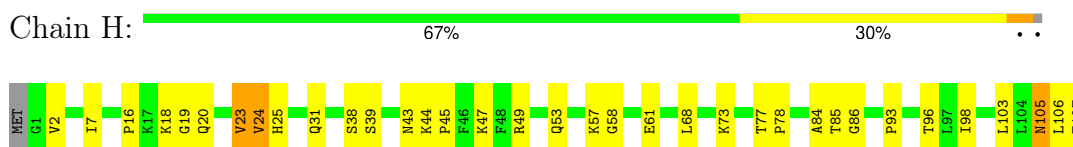
3 Residue-property plots [i](#)

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

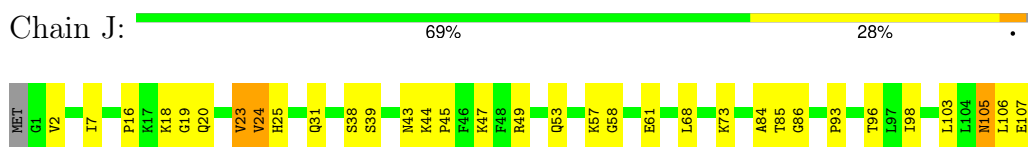
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



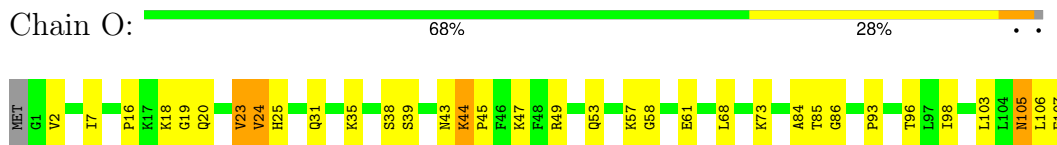
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



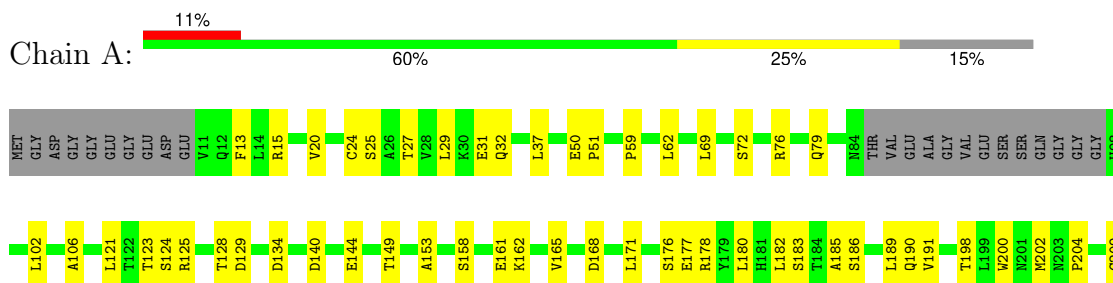
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

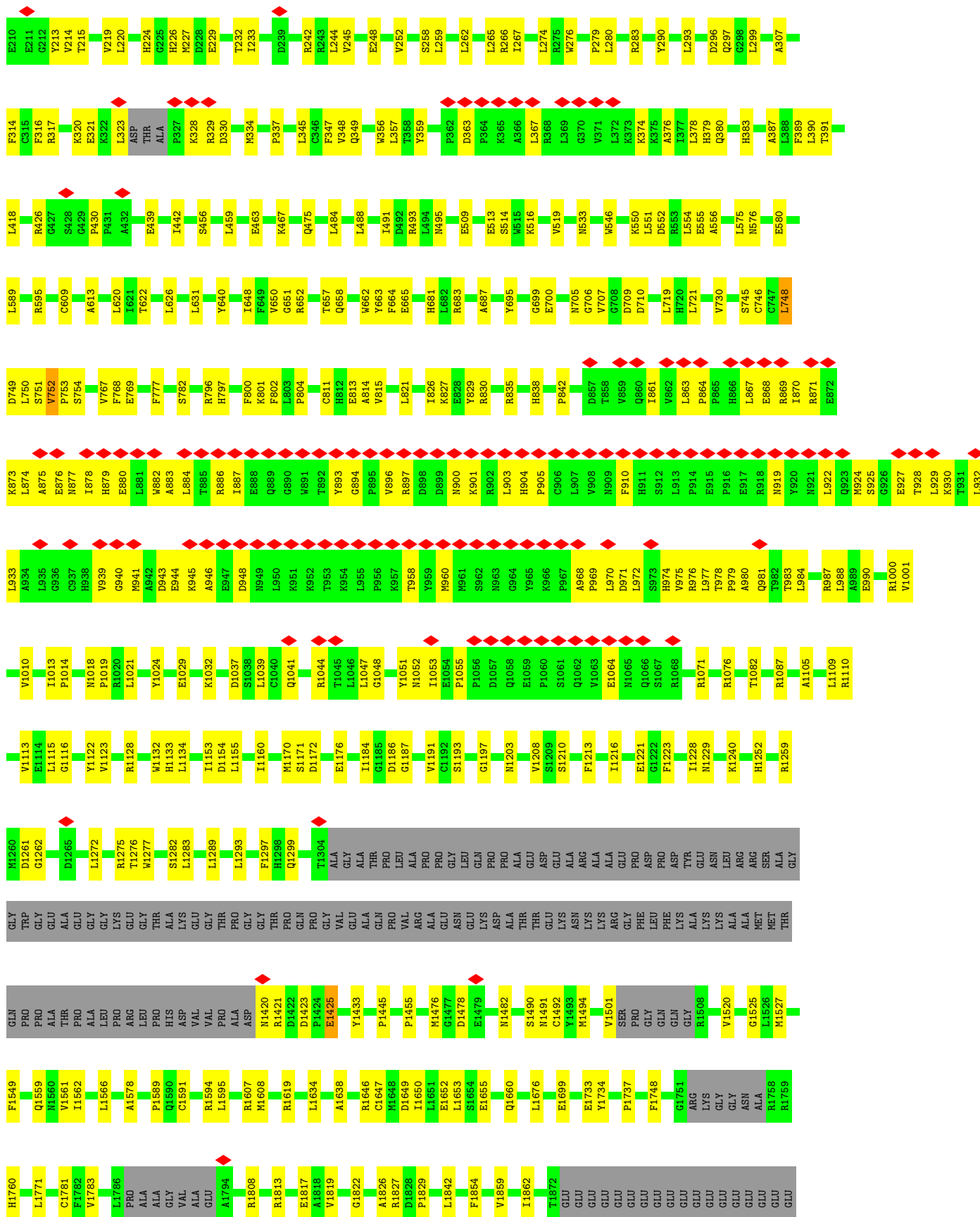


- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

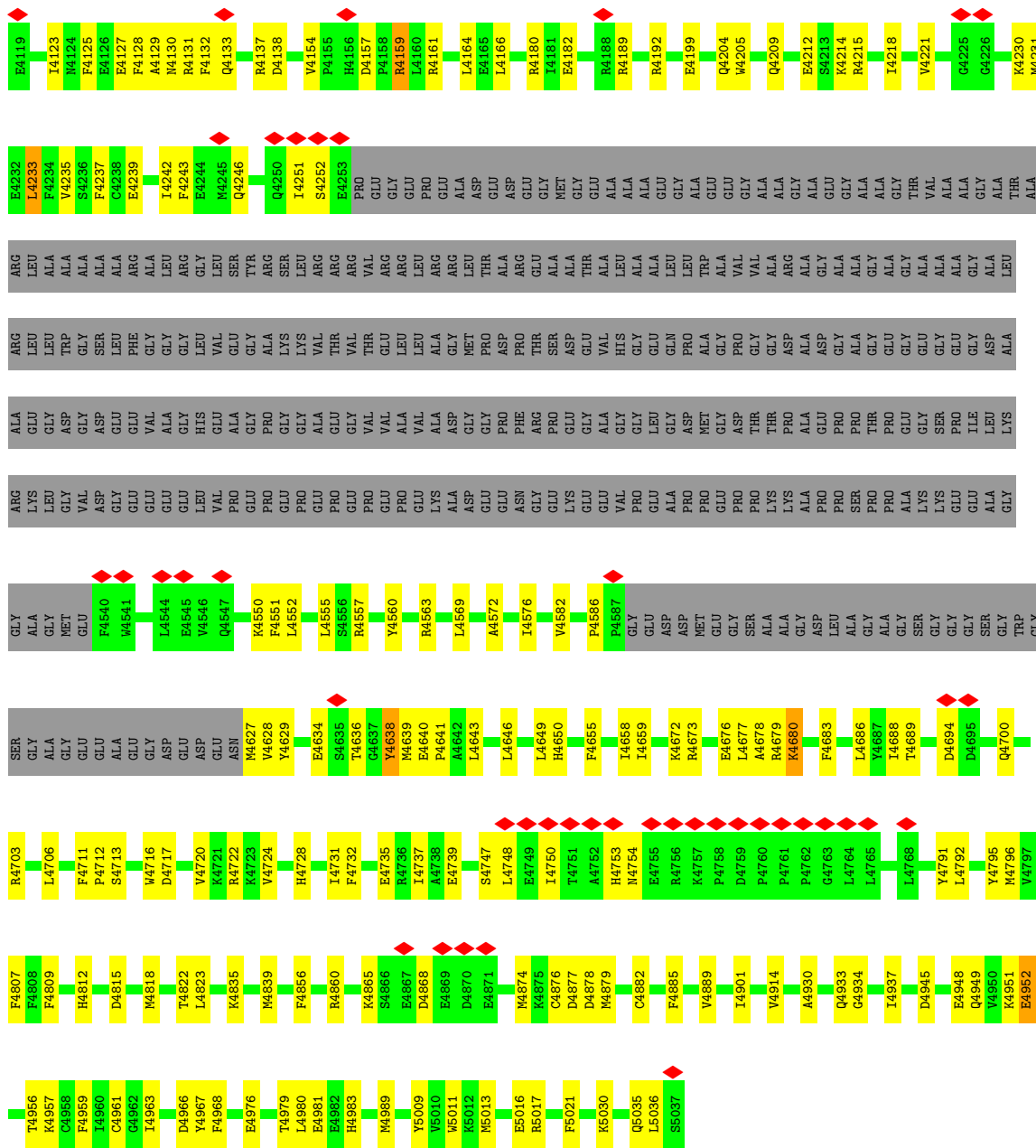


- Molecule 2: Ryanodine receptor 1

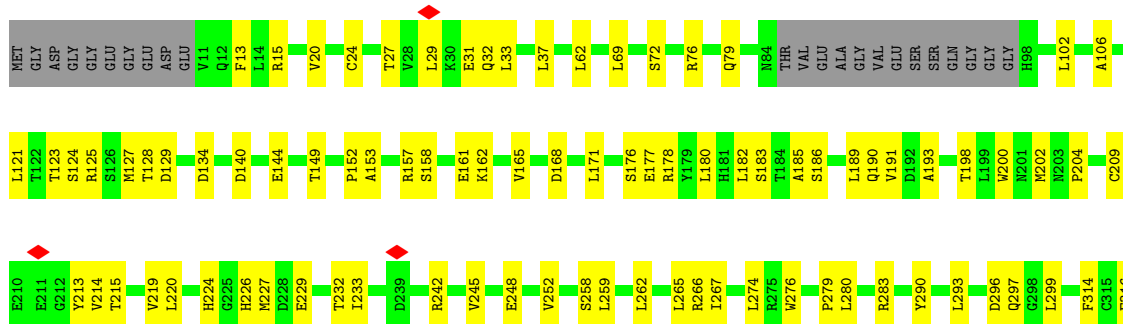


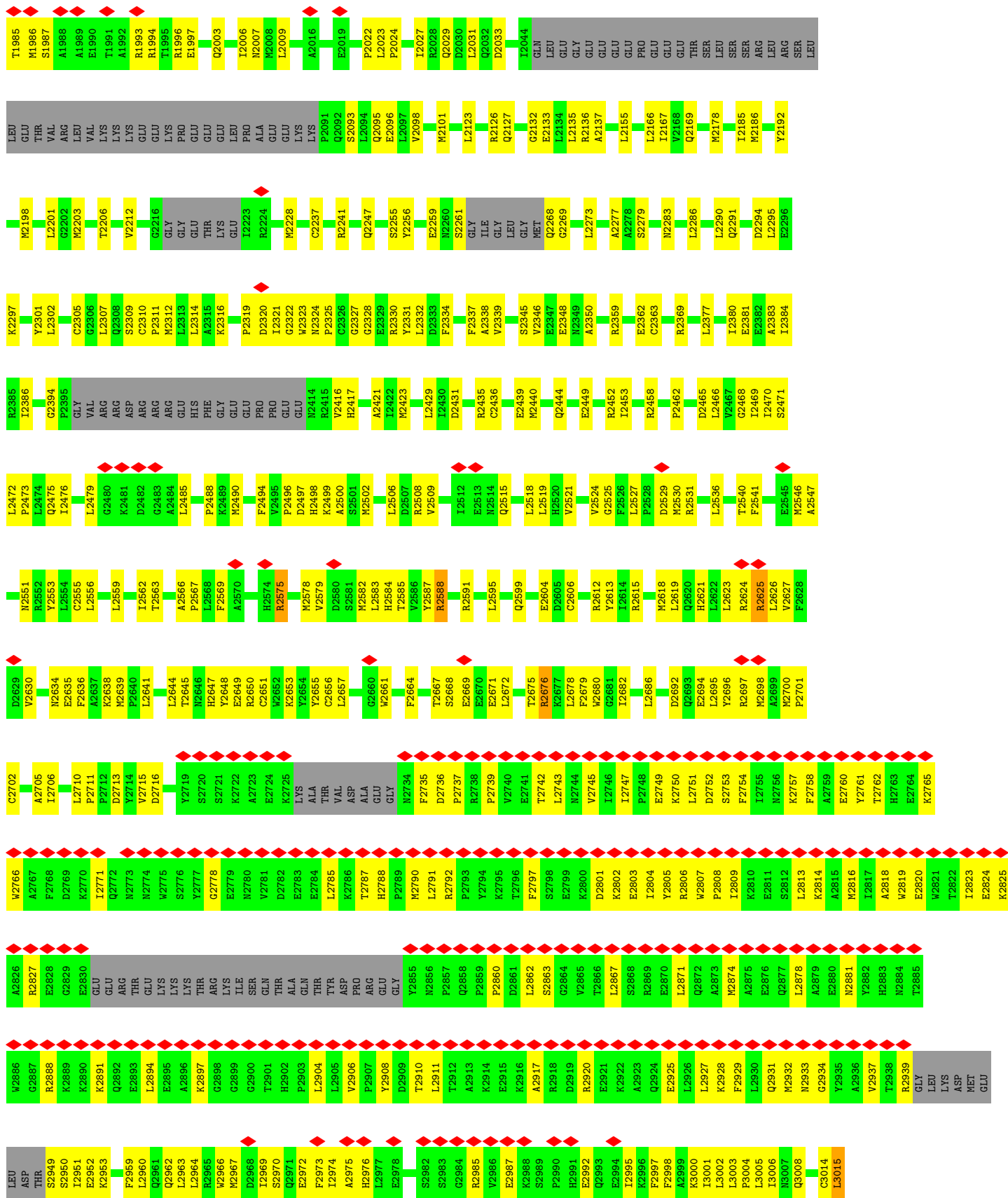


K3989	K4000	K4001	K4002	L4016	K4021	D4022	K4023	V4024	V4025	L4031	K4034	V4035	V4036	K4037	G4038	K4044	V4045	D4046	K4047	L4048	V4049	E4056	K4060	F4061	V4072	G4073	S4074	F4077	Q4078	D4079	K4090	K4091	D4092	K4095	A4096	D4098	F4103	T4104	E4107	L4108	C4114	S4115	E4116														
GLY	E3872	K3873	D3883	L3884	F3885	Q3889	C3892	E3893	F3899	I3916	L3924	Q3927	I3930	F3933	Y3934	K3935	Y3936	D3941	V3942	E3944	Q3946	A3954	M3955	A3954	M3955	L3965	T3966	E3967	Y3968	I3969	Q3970	G3971	P3972	C3973	R3984	L3985	W3986	D3987	A3988	V3989	F3992	V3995	F3996														
R3762	Q3767	S3768	H3771	A3776	E3777	K3782	I3783	T3797	L3802	N3809	V3812	Q3813	Q3814	K3815	K3816	L3817	E3825	K3836	L3842	D3843	N3844	N3845	F3847	E3848	Q3849	N3851	E3854	G3855	L3856	G3857	M3858	V3859	N3860	W3861	A3862	D3862	G3863	R3864	V3865	L3866	ASN	ARG	GLN	ASN													
Y3642	R3648	Y3657	K3658	M3673	E3682	GLN	GLU	GLU	GLU	GLU	GLU	VAL	GLU	K3693	K3694	P3695	H3699	Q3700	L3701	F3705	A3709	K3715	E3718	M3723	A3724	Y3725	M3729	L3735	GLU	GLU	GLY	GLY	GLY	GLU	ASN	GLY	GLU	ALA	TRP	HIS	LYS	LEU	L3624	S3625	K3626	Q3627	R3628	F3629	R3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	K3638
V3563	E3564	R3570	L3575	V3576	L3579	F3580	G3581	R3582	E3583	E3584	D3585	A3586	D3587	V3593	R3594	R3595	V3596	Q3597	E3598	V3599	V3602	L3603	Y3604	E3607	H3611	Y3612	K3613	S3615	LYS	ALA	VAL	TRP	HIS	LYS	LEU	L3624	S3625	K3626	Q3627	R3628	F3629	R3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	K3638							
T425	E426	P427	N428	E432	E433	M437	F442	I443	A3443	Y3444	V3445	S448	H449	N450	F451	K452	R453	E454	E455	Q456	N457	F458	V459	Q460	Q461	N462	E463	I464	N465	N466	N467	F468	L470	T471	ALA	ASP	SER	LYS	LYS	MET	ALA	LYS	LYS	GLY	ASP	ALA	GLN	SER	GLY	GLY	D3416	N3417	N3418	R3419	R3420		
V3269	I3270	E3271	I3272	L3273	L3274	P3275	M3276	L3277	C3278	S3279	K3280	L3281	F3282	K3283	W3284	W3285	E3286	R3287	E3290	L3296	P3297	L3298	T3299	T3220	T3221	K3222	S3223	P3224	R3225	E3226	R3227	A3228	I3229	L3230	G3231	L3232	P3233	N3234	S3235	V3236	E3237	E3238	M3239	C3240	I3243	P3244	V3245	L3246	D3247	R3248	I3253	R3262	P3267	H3268			
A3349	R3350	H3357	T3361	I3362	G3363	R3364	K3367	R3368	A3369	G3370	K3371	V3372	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	V3384	A3385	A3386	E3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	L3401	C3402	R3403	D3404	L3405	Y3409	L3412	T3413	R3414	T3415	D3416	N3417	N3418	R3419	R3420					
L3186	R3187	F3188	C3193	L3194	L3197	A3198	K3201	F3202	V3203	A3204	F3205	G3206	L3207	Q3208	Q3209	A3215	C3216	S3217	V3218	Y3219	T3220	T3221	K3222	S3223	P3224	R3225	E3226	R3227	A3228	I3229	L3230	G3231	L3232	P3233	N3234	S3235	V3236	E3237	E3238	M3239	C3240	I3243	P3244	V3245	L3246	D3247	R3248	I3253	R3262	P3267	H3268						
L3112	G3113	LYS	VAL	SER	GLN	ALA	THR	GLN	VAL	K3123	G3124	A3125	G3126	T3130	L3136	V3139	L3140	T3141	L3142	L3143	F3144	Q3145	H3146	I3147	A3148	Q3149	H3150	Q3151	F3152	D3155	V3156	I3157	L3158	D3159	D3160	V3161	Q3162	Y3166	R3167	L3169	T3172	Y3173	S3174	L3175	G3176	T3177	Y3182	V3183	E3184	K3185							
K3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042	F3043	C3044	K3045	L3046	L3049	V3050	R3051	H3052	L3056	F3057	D3060	A3061	V3064	C3067	L3068	H3069	I3070	L3071	D3076	A3077	R3078	T3079	V3080	M3081	P3085	V3088	L3089	L3092	A3099	S3100	E3104	K3105	M3106	V3107	E3108	N3109	L3110	R3111										
K2953	F2959	L2960	Q2961	Q2962	L2963	L2964	L2965	W2966	W2967	D2968	L2969	S2970	Q2971	E2972	F2973	L2974	A2975	H2976	L2977	E2978	S2982	S2983	G2984	R2985	V2986	E2987	F2990	H2991	E2992	W2993	E2994	L2995	K2996	F2997	F2998	A2999	K3000	I3001	L3002	L3003	F3004	L3005	I3006	N3007	Q3008	C3014	L3015	V3016	A3022	K3023	V3024	L3025	G3026	S3027			

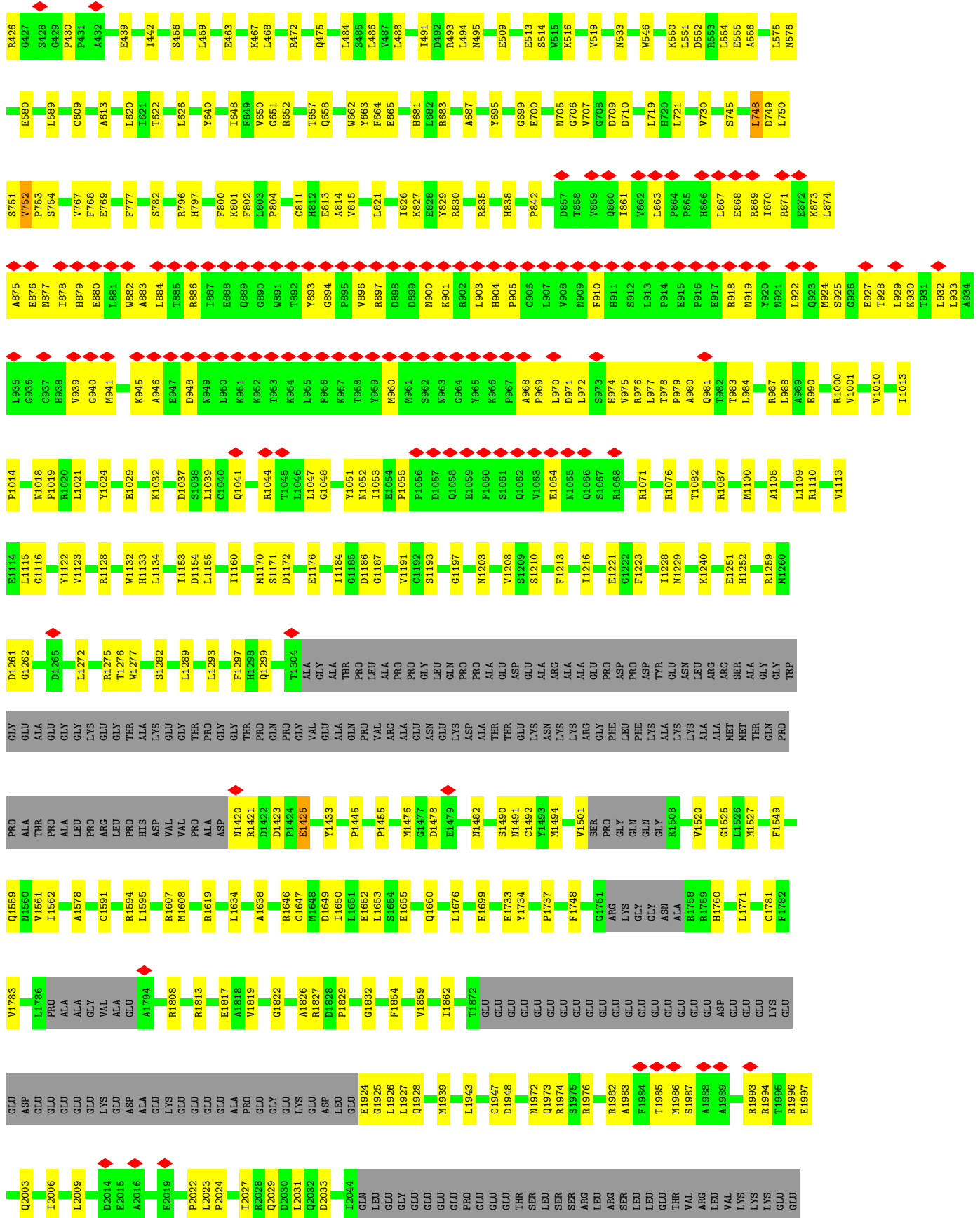


● Molecule 2: Ryanodine receptor 1





E4107	F3992	F3866	R3630	Q3554	Y3415	L3338	G3176	K3105	Y3016
I4108	F3996	ASN	A3631	M3555	Y3416	I3345	T3177	M3106	A3022
S4114	M3999	ARG	Y3632	N3418	D3417	V3346	T3177	V3107	K3023
E4115	M4000	GLN	Y3632	N3418	D3417	V3346	Y3182	E3108	R3024
E4116	M4001	ASN	V3633	N3419	D3418	V3346	K3185	N3109	L3025
A4117	M4002	GLU	Q3560	N3420	R3420	S3347	L3186	L3110	G3026
D4118	S4007	VAL	F3563	T3425	T3425	R3348	L3187	R3111	S3027
E4119	L4012	GLU	E3426	E3426	E3426	R3349	P3188	G3113	N3033
N4120	L4016	THR	E3427	E3427	E3427	A3349	P3188	LYS	K3034
I4121	L4016	LYS	E3428	E3428	E3428	T3269	P3188	VAL	R3034
I4122	L4016	LYS	E3429	E3429	E3429	V3269	P3188	SER	E3035
F4123	K4021	ARG	E3430	E3430	E3430	L3270	P3188	GLN	K3036
F4125	D4022	ARG	E3431	E3431	E3431	L3271	P3188	GLN	E3037
E4126	M4023	ARG	E3432	E3432	E3432	E3271	P3188	VAL	R3038
F4127	V4024	ARG	E3433	E3433	E3433	T3272	P3188	VAL	T3040
A4128	V4025	ASP	E3434	E3434	E3434	T3273	P3188	VAL	S3041
L4130	L4031	ARG	M3437	M3437	M3437	L3274	P3188	VAL	L3042
F4132	L4036	ARG	F3442	F3442	F3442	P3275	P3188	VAL	F3043
Q4133	M4044	GLU	F3445	F3445	F3445	L3276	P3188	VAL	C3044
R4137	V4045	GLU	S3448	S3448	S3448	M3276	P3188	VAL	R3045
D4138	D4046	GLU	N3450	N3450	N3450	L3277	P3188	VAL	L3046
M4047	M4047	GLU	F3451	F3451	F3451	E3278	P3188	VAL	L3049
L4048	V4049	VAL	K3452	K3452	K3452	C3278	P3188	VAL	V3050
F4154	V4154	VAL	R3453	R3453	R3453	S3279	P3188	VAL	R3051
F4155	F4155	GLU	E3454	E3454	E3454	Y3280	P3188	VAL	H3052
F4156	D4156	GLU	E3455	E3455	E3455	L3281	P3188	VAL	L3056
D4157	E4056	GLU	E3456	E3456	E3456	P3282	P3188	VAL	R3057
F4158	K4060	GLU	E3457	E3457	E3457	R3283	P3188	VAL	D3060
R4159	F4061	VAL	E3458	E3458	E3458	W3284	P3188	VAL	A3061
L4160	V4072	VAL	E3459	E3459	E3459	R3287	P3188	VAL	V3064
R4161	G4073	VAL	E3460	E3460	E3460	E3290	P3188	VAL	C3067
L4164	S4074	VAL	E3461	E3461	E3461	L3296	P3188	VAL	L3068
E4165	F4077	VAL	E3462	E3462	E3462	P3297	P3188	VAL	L3071
L4166	Q4078	VAL	E3463	E3463	E3463	A3298	P3188	VAL	D3076
R4180	F4078	VAL	E3464	E3464	E3464	M3298	P3188	VAL	A3077
F4181	T4082	VAL	E3465	E3465	E3465	L3312	P3188	VAL	R3078
E4182	D4083	VAL	E3466	E3466	E3466	L3319	P3188	VAL	T3079
R4188	P4084	VAL	E3467	E3467	E3467	L3320	P3188	VAL	V3080
R4189	R4085	VAL	E3468	E3468	E3468	L3321	P3188	VAL	M3081
R4192	G4086	VAL	E3469	E3469	E3469	L3322	P3188	VAL	F3085
E4199	K4090	VAL	E3470	E3470	E3470	L3323	P3188	VAL	V3088
K4091	M4091	VAL	E3471	E3471	E3471	L3324	P3188	VAL	K3089
D4092	D4092	VAL	E3472	E3472	E3472	L3325	P3188	VAL	L3092
K4095	K4095	VAL	E3473	E3473	E3473	L3326	P3188	VAL	A3099
A4096	M4097	VAL	E3474	E3474	E3474	L3327	P3188	VAL	S3100
Q4209	F4103	VAL	E3475	E3475	E3475	L3328	P3188	VAL	S3100
E4212	T4104	VAL	E3476	E3476	E3476	L3329	P3188	VAL	E3104
S4213		VAL	E3477	E3477	E3477	L3330	P3188	VAL	
K4214		VAL	E3478	E3478	E3478	L3331	P3188	VAL	
		VAL	E3479	E3479	E3479	L3332	P3188	VAL	
		VAL	E3480	E3480	E3480	L3333	P3188	VAL	
		VAL	E3481	E3481	E3481	L3334	P3188	VAL	
		VAL	E3482	E3482	E3482	L3335	P3188	VAL	
		VAL	E3483	E3483	E3483	L3336	P3188	VAL	
		VAL	E3484	E3484	E3484	L3337	P3188	VAL	
		VAL	E3485	E3485	E3485	L3338	P3188	VAL	
		VAL	E3486	E3486	E3486	L3339	P3188	VAL	
		VAL	E3487	E3487	E3487	L3340	P3188	VAL	
		VAL	E3488	E3488	E3488	L3341	P3188	VAL	
		VAL	E3489	E3489	E3489	L3342	P3188	VAL	
		VAL	E3490	E3490	E3490	L3343	P3188	VAL	
		VAL	E3491	E3491	E3491	L3344	P3188	VAL	
		VAL	E3492	E3492	E3492	L3345	P3188	VAL	
		VAL	E3493	E3493	E3493	L3346	P3188	VAL	
		VAL	E3494	E3494	E3494	L3347	P3188	VAL	
		VAL	E3495	E3495	E3495	L3348	P3188	VAL	
		VAL	E3496	E3496	E3496	L3349	P3188	VAL	
		VAL	E3497	E3497	E3497	L3350	P3188	VAL	
		VAL	E3498	E3498	E3498	L3351	P3188	VAL	
		VAL	E3499	E3499	E3499	L3352	P3188	VAL	
		VAL	E3500	E3500	E3500	L3353	P3188	VAL	
		VAL	E3501	E3501	E3501	L3354	P3188	VAL	
		VAL	E3502	E3502	E3502	L3355	P3188	VAL	
		VAL	E3503	E3503	E3503	L3356	P3188	VAL	
		VAL	E3504	E3504	E3504	L3357	P3188	VAL	
		VAL	E3505	E3505	E3505	L3358	P3188	VAL	
		VAL	E3506	E3506	E3506	L3359	P3188	VAL	
		VAL	E3507	E3507	E3507	L3360	P3188	VAL	
		VAL	E3508	E3508	E3508	L3361	P3188	VAL	
		VAL	E3509	E3509	E3509	L3362	P3188	VAL	
		VAL	E3510	E3510	E3510	L3363	P3188	VAL	
		VAL	E3511	E3511	E3511	L3364	P3188	VAL	
		VAL	E3512	E3512	E3512	L3365	P3188	VAL	
		VAL	E3513	E3513	E3513	L3366	P3188	VAL	
		VAL	E3514	E3514	E3514	L3367	P3188	VAL	
		VAL	E3515	E3515	E3515	L3368	P3188	VAL	
		VAL	E3516	E3516	E3516	L3369	P3188	VAL	
		VAL	E3517	E3517	E3517	L3370	P3188	VAL	
		VAL	E3518	E3518	E3518	L3371	P3188	VAL	
		VAL	E3519	E3519	E3519	L3372	P3188	VAL	
		VAL	E3520	E3520	E3520	L3373	P3188	VAL	
		VAL	E3521	E3521	E3521	L3374	P3188	VAL	
		VAL	E3522	E3522	E3522	L3375	P3188	VAL	
		VAL	E3523	E3523	E3523	L3376	P3188	VAL	
		VAL	E3524	E3524	E3524	L3377	P3188	VAL	
		VAL	E3525	E3525	E3525	L3378	P3188	VAL	
		VAL	E3526	E3526	E3526	L3379	P3188	VAL	
		VAL	E3527	E3527	E3527	L3380	P3188	VAL	
		VAL	E3528	E3528	E3528	L3381	P3188	VAL	
		VAL	E3529	E3529	E3529	L3382	P3188	VAL	
		VAL	E3530	E3530	E3530	L3383	P3188	VAL	
		VAL	E3531	E3531	E3531	L3384	P3188	VAL	
		VAL	E3532	E3532	E3532	L3385	P3188	VAL	
		VAL	E3533	E3533	E3533	L3386	P3188	VAL	
		VAL	E3534	E3534	E3534	L3387	P3188	VAL	
		VAL	E3535	E3535	E3535	L3388	P3188	VAL	
		VAL	E3536	E3536	E3536	L3389	P3188	VAL	
		VAL	E3537	E3537	E3537	L3390	P3188	VAL	
		VAL	E3538	E3538	E3538	L3391	P3188	VAL	
		VAL	E3539	E3539	E3539	L3392	P3188	VAL	
		VAL	E3540	E3540	E3540	L3393	P3188	VAL	
		VAL	E3541	E3541	E3541	L3394	P3188	VAL	
		VAL	E3542	E3542	E3542	L3395	P3188	VAL	
		VAL	E3543	E3543	E3543	L3396	P3188	VAL	
		VAL	E3544	E3544	E3544	L3397	P3188	VAL	
		VAL	E3545	E3545	E3545	L3398	P3188	VAL	
		VAL	E3546	E3546	E3546	L3399	P3188	VAL	
		VAL	E3547	E3547	E3547	L3400	P3188	VAL	
		VAL	E3548	E3548	E3548	L3401	P3188	VAL	
		VAL	E3549	E3549	E3549	L3402	P3188	VAL	
		VAL	E3550	E3550	E3550	L3403	P3188	VAL	
		VAL	E3551	E3551	E3551	L3404	P3188	VAL	
		VAL	E3552	E3552	E3552	L3405	P3188	VAL	
		VAL	E3553	E3553	E3553	L3406	P3188	VAL	
		VAL	E3554	E3554	E3554	L3407	P3188	VAL	
		VAL	E3555	E3555	E3555	L3408	P3188	VAL	
		VAL	E3556	E3556	E3556	L3409	P3188	VAL	
		VAL	E3557	E3557	E3557	L3410	P3188	VAL	
		VAL	E3558	E3558	E3558	L3411	P3188	VAL	
		VAL	E3559	E3559	E3559	L3412	P3188	VAL	
		VAL	E3560	E3560	E3560	L3413	P3188	VAL	
		VAL	E3561	E3561	E3561	L3414	P3188	VAL	
		VAL	E3562	E3562	E3562	L3415	P3188	VAL	
		VAL	E3563	E3563	E3563	L3416	P3188	VAL	
		VAL	E3564	E3564	E3564	L3417	P3188	VAL	
		VAL	E3565	E3565	E3565	L3418	P3188	VAL	
		VAL	E3566	E3566	E3566	L3419	P3188	VAL	
		VAL	E3567	E3567	E3567	L3420	P3188	VAL	
		VAL	E3568	E3568	E3568	L3421	P3188	VAL	
		VAL	E3569	E3569	E3569	L3422	P3188	VAL	
		VAL	E3570	E3570	E3570	L3423	P3188	VAL	
		VAL	E3571	E3571	E3571	L3424	P3188	VAL	
		VAL	E3572	E3572	E3572	L3425	P3188	VAL	
		VAL	E3573	E3573	E3573	L3426	P3188	VAL	
		VAL	E3574	E3574	E3574	L3427	P3188	VAL	
		VAL	E3575	E3575	E3575	L3428	P3188	VAL	
		VAL	E3576	E3576	E3576	L3429	P3188	VAL	
		VAL	E3577	E3577	E3577	L3430	P3188	VAL	
		VAL	E3578	E3578	E3578	L3431	P3188	VAL	
		VAL	E3579	E3579	E3579	L3432	P3188	VAL	
		VAL	E3580	E3580	E3580	L3433	P3188	VAL	
		VAL	E3581	E3581	E3581	L3434	P3188	VAL	
		VAL	E3582	E3582	E3582	L3435	P3188	VAL	
		VAL	E3583	E3583	E3583	L3436	P3188	VAL	
		VAL	E3584	E3584	E3584	L3437	P3188</		



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	53882	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 ($e^-/\text{\AA}^2$)	58.34	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.119	Depositor
Minimum map value	-0.032	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.031	Depositor
Recommended contour level	0.121	Depositor
Map size (Å)	425.472, 425.472, 425.472	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.831, 0.831, 0.831	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: CFF, CA, 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	F	0.78	0/834	0.70	1/1123 (0.1%)
1	H	0.78	0/834	0.71	1/1123 (0.1%)
1	J	0.78	0/834	0.70	1/1123 (0.1%)
1	O	0.78	0/834	0.70	1/1123 (0.1%)
2	A	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
2	B	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
2	G	0.46	1/35070 (0.0%)	0.55	32/47504 (0.1%)
2	I	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
All	All	0.47	4/143616 (0.0%)	0.56	129/194508 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A	0	1
2	B	0	1
2	G	0	1
2	I	0	1
All	All	0	4

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	3188	PRO	N-CD	-8.43	1.36	1.47
2	B	3188	PRO	N-CD	-8.43	1.36	1.47
2	I	3188	PRO	N-CD	-8.43	1.36	1.47
2	G	3188	PRO	N-CD	-8.37	1.36	1.47

All (129) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3850	GLN	CA-CB-CG	8.89	132.95	113.40
2	A	3850	GLN	CA-CB-CG	8.88	132.94	113.40
2	I	3850	GLN	CA-CB-CG	8.87	132.92	113.40
2	G	3850	GLN	CA-CB-CG	8.86	132.90	113.40
2	B	2676	ARG	CB-CG-CD	-8.82	88.66	111.60
2	A	2676	ARG	CB-CG-CD	-8.81	88.68	111.60
2	I	2676	ARG	CB-CG-CD	-8.81	88.68	111.60
2	G	2676	ARG	CB-CG-CD	-8.80	88.71	111.60
2	I	4159	ARG	CG-CD-NE	8.49	129.62	111.80
2	B	4159	ARG	CG-CD-NE	8.48	129.62	111.80
2	A	4159	ARG	CG-CD-NE	8.47	129.60	111.80
2	A	752	VAL	N-CA-C	-8.47	88.13	111.00
2	B	752	VAL	N-CA-C	-8.46	88.14	111.00
2	G	752	VAL	N-CA-C	-8.46	88.15	111.00
2	G	4159	ARG	CG-CD-NE	8.45	129.55	111.80
2	I	752	VAL	N-CA-C	-8.46	88.17	111.00
2	A	2676	ARG	NE-CZ-NH1	-8.00	116.30	120.30
2	B	2676	ARG	NE-CZ-NH1	-7.97	116.32	120.30
2	G	2676	ARG	NE-CZ-NH1	-7.93	116.33	120.30
2	I	2676	ARG	NE-CZ-NH1	-7.93	116.33	120.30
2	B	3015	LEU	CA-CB-CG	7.45	132.44	115.30
2	G	3015	LEU	CA-CB-CG	7.45	132.44	115.30
2	A	3015	LEU	CA-CB-CG	7.44	132.42	115.30
2	I	3015	LEU	CA-CB-CG	7.44	132.42	115.30
2	I	2588	ARG	NE-CZ-NH1	7.39	123.99	120.30
2	A	2588	ARG	NE-CZ-NH1	7.38	123.99	120.30
2	G	2588	ARG	NE-CZ-NH1	7.36	123.98	120.30
2	B	2588	ARG	NE-CZ-NH1	7.34	123.97	120.30
2	G	3971	GLY	N-CA-C	-7.27	94.92	113.10
2	A	3971	GLY	N-CA-C	-7.27	94.93	113.10
2	B	3971	GLY	N-CA-C	-7.26	94.95	113.10
2	I	3971	GLY	N-CA-C	-7.26	94.95	113.10
2	G	752	VAL	C-N-CA	-7.09	92.21	122.00
2	B	752	VAL	C-N-CA	-7.09	92.21	122.00
2	A	752	VAL	C-N-CA	-7.09	92.23	122.00
2	I	752	VAL	C-N-CA	-7.09	92.23	122.00
2	B	2588	ARG	CG-CD-NE	7.00	126.50	111.80
2	A	2588	ARG	CG-CD-NE	6.99	126.48	111.80
2	G	2588	ARG	CG-CD-NE	6.99	126.48	111.80
2	I	2588	ARG	CG-CD-NE	6.96	126.42	111.80
2	B	752	VAL	CB-CA-C	-6.92	98.25	111.40
2	I	752	VAL	CB-CA-C	-6.92	98.25	111.40
2	G	752	VAL	CB-CA-C	-6.91	98.27	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	752	VAL	CB-CA-C	-6.90	98.29	111.40
2	B	3162	GLN	CA-CB-CG	6.68	128.10	113.40
2	I	3162	GLN	CA-CB-CG	6.68	128.09	113.40
2	G	3162	GLN	CA-CB-CG	6.67	128.08	113.40
2	A	3162	GLN	CA-CB-CG	6.67	128.07	113.40
2	I	4159	ARG	NE-CZ-NH2	6.56	123.58	120.30
2	G	4159	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	A	4159	ARG	NE-CZ-NH2	6.47	123.53	120.30
2	B	4159	ARG	NE-CZ-NH2	6.46	123.53	120.30
2	G	4874	MET	CB-CG-SD	6.33	131.38	112.40
2	A	4874	MET	CB-CG-SD	6.31	131.32	112.40
2	I	4874	MET	CB-CG-SD	6.30	131.31	112.40
2	B	4874	MET	CB-CG-SD	6.30	131.30	112.40
2	I	3371	LYS	CA-CB-CG	6.19	127.01	113.40
2	G	3371	LYS	CA-CB-CG	6.18	126.99	113.40
2	B	3371	LYS	CA-CB-CG	6.18	126.99	113.40
2	B	2518	LEU	CB-CG-CD2	-6.17	100.51	111.00
2	A	2518	LEU	CB-CG-CD2	-6.17	100.51	111.00
2	A	3371	LYS	CA-CB-CG	6.17	126.96	113.40
2	G	2518	LEU	CB-CG-CD2	-6.17	100.52	111.00
2	I	2518	LEU	CB-CG-CD2	-6.16	100.53	111.00
2	B	2625	ARG	CG-CD-NE	6.13	124.68	111.80
2	A	2625	ARG	CG-CD-NE	6.13	124.67	111.80
2	I	2625	ARG	CG-CD-NE	6.12	124.65	111.80
2	G	2625	ARG	CG-CD-NE	6.11	124.62	111.80
2	I	2612	ARG	NE-CZ-NH2	5.97	123.29	120.30
2	B	2612	ARG	NE-CZ-NH2	5.96	123.28	120.30
2	A	2612	ARG	NE-CZ-NH2	5.93	123.26	120.30
2	G	2612	ARG	NE-CZ-NH2	5.90	123.25	120.30
2	G	749	ASP	N-CA-C	-5.82	95.28	111.00
2	B	749	ASP	N-CA-C	-5.81	95.33	111.00
2	A	749	ASP	N-CA-C	-5.80	95.34	111.00
2	I	749	ASP	N-CA-C	-5.79	95.37	111.00
2	G	2669	GLU	CA-CB-CG	5.70	125.94	113.40
2	I	2669	GLU	CA-CB-CG	5.69	125.93	113.40
2	A	2669	GLU	CA-CB-CG	5.69	125.91	113.40
2	B	2669	GLU	CA-CB-CG	5.68	125.89	113.40
2	I	4159	ARG	CB-CG-CD	5.48	125.84	111.60
2	B	4159	ARG	CB-CG-CD	5.46	125.80	111.60
2	A	4159	ARG	CB-CG-CD	5.45	125.78	111.60
2	G	752	VAL	C-N-CD	5.45	139.84	128.40
2	B	752	VAL	C-N-CD	5.45	139.84	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	4159	ARG	CB-CG-CD	5.44	125.74	111.60
2	I	1425	GLU	CA-CB-CG	5.43	125.35	113.40
2	A	752	VAL	C-N-CD	5.43	139.80	128.40
2	I	752	VAL	C-N-CD	5.42	139.79	128.40
2	A	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	G	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	B	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	I	4097	MET	CG-SD-CE	5.41	108.85	100.20
2	A	3348	ARG	CB-CG-CD	-5.40	97.56	111.60
2	I	3348	ARG	CB-CG-CD	-5.39	97.58	111.60
2	B	3348	ARG	CB-CG-CD	-5.39	97.58	111.60
2	A	4097	MET	CG-SD-CE	5.38	108.82	100.20
2	G	3348	ARG	CB-CG-CD	-5.38	97.60	111.60
2	G	4097	MET	CG-SD-CE	5.37	108.79	100.20
2	B	4097	MET	CG-SD-CE	5.37	108.78	100.20
2	I	4097	MET	CB-CG-SD	5.30	128.31	112.40
2	B	4097	MET	CB-CG-SD	5.30	128.30	112.40
2	G	4097	MET	CB-CG-SD	5.30	128.30	112.40
2	A	4097	MET	CB-CG-SD	5.30	128.29	112.40
2	I	2588	ARG	NE-CZ-NH2	-5.29	117.65	120.30
2	I	439	GLU	CA-CB-CG	5.28	125.01	113.40
2	A	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	G	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	B	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	A	2588	ARG	NE-CZ-NH2	-5.22	117.69	120.30
2	B	2588	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	H	20	GLN	N-CA-C	-5.19	96.99	111.00
1	O	20	GLN	N-CA-C	-5.19	97.00	111.00
1	J	20	GLN	N-CA-C	-5.18	97.02	111.00
2	I	4952	GLU	CA-CB-CG	5.18	124.79	113.40
2	A	4952	GLU	CA-CB-CG	5.17	124.78	113.40
2	G	4952	GLU	CA-CB-CG	5.17	124.78	113.40
2	B	4952	GLU	CA-CB-CG	5.17	124.78	113.40
1	F	20	GLN	N-CA-C	-5.17	97.04	111.00
2	G	2588	ARG	NE-CZ-NH2	-5.15	117.72	120.30
2	B	2575	ARG	NE-CZ-NH1	5.12	122.86	120.30
2	A	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	G	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	I	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	B	748	LEU	CA-CB-CG	5.04	126.89	115.30
2	I	748	LEU	CA-CB-CG	5.04	126.89	115.30
2	G	748	LEU	CA-CB-CG	5.04	126.88	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	748	LEU	CA-CB-CG	5.02	126.84	115.30
2	G	2588	ARG	CD-NE-CZ	5.01	130.62	123.60

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	4638	TYR	Peptide
2	B	4638	TYR	Peptide
2	G	4638	TYR	Peptide
2	I	4638	TYR	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	818	0	824	36	0
1	H	818	0	824	35	0
1	J	818	0	824	34	0
1	O	818	0	824	36	0
2	A	34293	0	33897	1228	0
2	B	34293	0	33897	1219	0
2	G	34293	0	33897	1242	0
2	I	34293	0	33897	1219	0
3	A	31	0	12	2	0
3	B	31	0	12	2	0
3	G	31	0	12	2	0
3	I	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	G	1	0	0	0	0
4	I	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	G	1	0	0	0	0
5	I	1	0	0	0	0
6	A	14	0	10	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	14	0	10	1	0
6	G	14	0	10	1	0
6	I	14	0	10	1	0
All	All	140632	0	138972	4997	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 18.

All (4997) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3989:VAL:HG23	2:I:4023:MET:CE	1.38	1.52
2:B:3989:VAL:HG23	2:B:4023:MET:CE	1.38	1.51
2:A:3989:VAL:HG23	2:A:4023:MET:CE	1.38	1.49
2:G:3989:VAL:HG23	2:G:4023:MET:CE	1.38	1.49
2:G:2615:ARG:NH2	2:G:2618:MET:HE1	1.16	1.48
2:I:2615:ARG:NH2	2:I:2618:MET:HE1	1.16	1.48
2:G:3051:ARG:NH1	2:G:3052:HIS:HD2	1.16	1.43
2:I:3051:ARG:NH1	2:I:3052:HIS:HD2	1.16	1.42
2:A:3051:ARG:NH1	2:A:3052:HIS:HD2	1.16	1.41
2:I:4092:ASP:HA	2:I:4095:LYS:NZ	1.31	1.41
2:G:2615:ARG:NH2	2:G:2618:MET:CE	1.84	1.40
2:B:4092:ASP:HA	2:B:4095:LYS:NZ	1.31	1.40
2:B:2615:ARG:NH2	2:B:2618:MET:HE1	1.21	1.39
2:G:4092:ASP:HA	2:G:4095:LYS:NZ	1.31	1.39
2:A:4092:ASP:HA	2:A:4095:LYS:NZ	1.31	1.39
2:I:2615:ARG:NH2	2:I:2618:MET:CE	1.84	1.39
2:A:2615:ARG:NH2	2:A:2618:MET:CE	1.84	1.38
2:B:3051:ARG:NH1	2:B:3052:HIS:HD2	1.16	1.36
2:A:2615:ARG:NH2	2:A:2618:MET:HE1	1.10	1.36
2:A:3051:ARG:NH1	2:A:3052:HIS:CD2	1.94	1.36
2:B:2615:ARG:NH2	2:B:2618:MET:CE	1.84	1.35
2:B:3051:ARG:NH1	2:B:3052:HIS:CD2	1.94	1.35
2:I:3051:ARG:NH1	2:I:3052:HIS:CD2	1.94	1.34
2:B:2566:ALA:HA	2:B:2569:PHE:CE1	1.63	1.34
2:A:2566:ALA:HA	2:A:2569:PHE:CE1	1.63	1.34
2:I:2566:ALA:HA	2:I:2569:PHE:CE1	1.63	1.34
2:G:2566:ALA:HA	2:G:2569:PHE:CE1	1.63	1.33
2:G:3051:ARG:NH1	2:G:3052:HIS:CD2	1.94	1.33
2:A:4791:TYR:CE1	2:A:4818:MET:CE	2.13	1.32
2:G:4791:TYR:CE1	2:G:4818:MET:CE	2.13	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4791:TYR:CE1	2:B:4818:MET:CE	2.13	1.31
2:I:4791:TYR:CZ	2:I:4818:MET:HE2	1.65	1.30
2:A:4791:TYR:CZ	2:A:4818:MET:HE2	1.65	1.30
2:B:4791:TYR:CZ	2:B:4818:MET:HE2	1.67	1.29
2:I:4791:TYR:CE1	2:I:4818:MET:CE	2.13	1.29
2:G:4791:TYR:CZ	2:G:4818:MET:HE2	1.67	1.29
2:G:2575:ARG:NH1	2:G:2578:MET:CE	1.98	1.27
2:A:2575:ARG:NH1	2:A:2578:MET:CE	1.98	1.26
2:B:2575:ARG:NH1	2:B:2578:MET:CE	1.98	1.26
2:I:2575:ARG:NH1	2:I:2578:MET:CE	1.98	1.26
2:A:3989:VAL:CG2	2:A:4023:MET:HE2	1.66	1.24
2:B:3309:SER:OG	2:B:3348:ARG:CZ	1.86	1.23
2:A:3309:SER:OG	2:A:3348:ARG:CZ	1.86	1.23
2:I:3309:SER:OG	2:I:3348:ARG:CZ	1.86	1.23
2:G:3309:SER:OG	2:G:3348:ARG:CZ	1.86	1.22
2:G:3201:MET:HE1	2:G:3205:PHE:CD1	1.75	1.20
2:I:3309:SER:CB	2:I:3348:ARG:NH1	2.05	1.20
2:A:3309:SER:CB	2:A:3348:ARG:NH1	2.05	1.20
2:G:4791:TYR:CE1	2:G:4818:MET:HE3	1.75	1.20
2:I:3201:MET:HE1	2:I:3205:PHE:CD1	1.75	1.20
2:G:3309:SER:CB	2:G:3348:ARG:NH1	2.05	1.19
2:B:3309:SER:CB	2:B:3348:ARG:NH1	2.05	1.19
2:A:2788:HIS:CD2	2:A:2790:MET:SD	2.36	1.19
2:B:2788:HIS:CD2	2:B:2790:MET:SD	2.36	1.19
2:I:2788:HIS:CD2	2:I:2790:MET:SD	2.36	1.19
2:A:3201:MET:HE1	2:A:3205:PHE:CD1	1.76	1.18
2:I:4092:ASP:CA	2:I:4095:LYS:HZ3	1.55	1.18
2:G:2788:HIS:CD2	2:G:2790:MET:SD	2.36	1.17
2:G:3989:VAL:CG2	2:G:4023:MET:HE2	1.74	1.16
2:I:2894:LEU:HA	2:I:2897:LYS:HZ2	1.10	1.16
2:I:4791:TYR:CE1	2:I:4818:MET:HE3	1.79	1.16
2:B:3989:VAL:CG2	2:B:4023:MET:HE2	1.74	1.15
2:I:3989:VAL:CG2	2:I:4023:MET:HE2	1.74	1.15
2:B:2816:MET:HE1	2:B:2927:LEU:HD22	1.28	1.15
2:B:4092:ASP:CA	2:B:4095:LYS:NZ	2.10	1.15
2:G:4092:ASP:CA	2:G:4095:LYS:NZ	2.10	1.15
2:B:3201:MET:HE1	2:B:3205:PHE:CD1	1.80	1.15
2:I:2894:LEU:HA	2:I:2897:LYS:NZ	1.62	1.15
2:B:4092:ASP:CA	2:B:4095:LYS:HZ3	1.58	1.14
2:B:3201:MET:HE1	2:B:3205:PHE:HD1	1.06	1.14
2:G:2816:MET:HE1	2:G:2927:LEU:HD22	1.28	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2894:LEU:HA	2:G:2897:LYS:NZ	1.62	1.14
2:G:3201:MET:HE1	2:G:3205:PHE:HD1	0.97	1.14
2:A:2894:LEU:HA	2:A:2897:LYS:NZ	1.62	1.13
2:B:4791:TYR:CE1	2:B:4818:MET:HE3	1.74	1.13
2:A:4092:ASP:CA	2:A:4095:LYS:NZ	2.10	1.13
2:I:4092:ASP:CA	2:I:4095:LYS:NZ	2.10	1.13
2:A:2967:MET:HE1	2:A:3045:LYS:HB2	1.31	1.13
2:G:2566:ALA:O	2:G:2569:PHE:HD1	1.32	1.13
2:G:2615:ARG:CZ	2:G:2618:MET:CE	2.27	1.13
2:B:2894:LEU:HA	2:B:2897:LYS:NZ	1.62	1.12
2:I:2469:ILE:HG22	2:I:2502:MET:HE3	1.30	1.13
2:G:1943:LEU:HD13	2:G:2101:MET:CE	1.79	1.12
2:G:2185:ILE:HD13	2:G:2203:MET:HE3	1.12	1.12
2:B:2566:ALA:O	2:B:2569:PHE:HD1	1.32	1.12
2:I:1943:LEU:HD13	2:I:2101:MET:CE	1.79	1.12
2:A:2566:ALA:O	2:A:2569:PHE:HD1	1.32	1.12
2:B:1943:LEU:HD13	2:B:2101:MET:CE	1.79	1.12
2:B:2185:ILE:HD13	2:B:2203:MET:HE3	1.20	1.12
2:A:2816:MET:HE1	2:A:2927:LEU:HD22	1.31	1.12
2:I:2615:ARG:CZ	2:I:2618:MET:CE	2.27	1.12
2:G:2575:ARG:HH12	2:G:2578:MET:HE1	1.14	1.11
2:B:2615:ARG:CZ	2:B:2618:MET:HE2	1.79	1.11
2:A:1943:LEU:HD13	2:A:2101:MET:CE	1.79	1.11
2:A:2615:ARG:CZ	2:A:2618:MET:CE	2.27	1.11
2:B:2469:ILE:CG2	2:B:2502:MET:CE	2.29	1.11
2:B:2615:ARG:CZ	2:B:2618:MET:CE	2.27	1.11
2:I:1943:LEU:HD13	2:I:2101:MET:HE3	1.31	1.11
2:A:2469:ILE:CG2	2:A:2502:MET:CE	2.29	1.10
2:G:1943:LEU:HD13	2:G:2101:MET:HE3	1.26	1.10
2:G:2894:LEU:HA	2:G:2897:LYS:HZ2	1.10	1.10
2:I:3201:MET:HE1	2:I:3205:PHE:HD1	0.97	1.10
2:B:1943:LEU:HD13	2:B:2101:MET:HE3	1.33	1.10
2:I:2469:ILE:CG2	2:I:2502:MET:CE	2.29	1.10
2:I:2566:ALA:O	2:I:2569:PHE:HD1	1.32	1.10
2:A:1943:LEU:HD13	2:A:2101:MET:HE3	1.26	1.10
2:B:2967:MET:HE1	2:B:3045:LYS:HB2	1.32	1.09
2:A:4961:CYS:SG	2:A:4983:HIS:CE1	2.45	1.09
2:G:2469:ILE:CG2	2:G:2502:MET:CE	2.29	1.09
1:J:2:VAL:HG11	1:J:61:GLU:HG2	1.35	1.09
2:I:2469:ILE:CG2	2:I:2502:MET:HE3	1.82	1.09
2:G:2615:ARG:CZ	2:G:2618:MET:HE2	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2816:MET:HE1	2:I:2927:LEU:HD22	1.35	1.09
2:A:4791:TYR:CE1	2:A:4818:MET:HE3	1.83	1.08
1:F:2:VAL:HG11	1:F:61:GLU:HG2	1.35	1.08
2:A:2894:LEU:HA	2:A:2897:LYS:HZ2	1.10	1.08
2:A:4045:VAL:HG12	2:A:4159:ARG:NE	1.69	1.08
2:G:3989:VAL:CG2	2:G:4023:MET:CE	2.29	1.08
1:H:2:VAL:HG11	1:H:61:GLU:HG2	1.35	1.08
2:A:3201:MET:HE1	2:A:3205:PHE:HD1	0.98	1.07
2:G:4045:VAL:HG12	2:G:4159:ARG:NE	1.69	1.07
2:I:2615:ARG:CZ	2:I:2618:MET:HE2	1.83	1.07
2:I:3327:LEU:HD12	2:I:3368:ARG:HH21	1.16	1.07
2:G:3320:LEU:HD23	2:G:3357:HIS:HB3	1.31	1.07
2:B:3989:VAL:CG2	2:B:4023:MET:CE	2.29	1.07
2:I:2575:ARG:HH12	2:I:2578:MET:HE1	1.18	1.07
2:G:4791:TYR:CZ	2:G:4818:MET:CE	2.36	1.07
2:I:4045:VAL:HG12	2:I:4159:ARG:NE	1.69	1.07
2:B:3051:ARG:HH11	2:B:3052:HIS:CD2	1.64	1.07
2:I:2575:ARG:NH1	2:I:2578:MET:HE3	1.69	1.07
2:B:4045:VAL:HG12	2:B:4159:ARG:NE	1.69	1.07
2:I:2967:MET:HE1	2:I:3045:LYS:HB2	1.37	1.07
2:A:3051:ARG:HH11	2:A:3052:HIS:CD2	1.64	1.06
2:I:3989:VAL:CG2	2:I:4023:MET:CE	2.29	1.06
2:A:2185:ILE:HD13	2:A:2203:MET:HE3	1.07	1.06
2:A:3320:LEU:HD23	2:A:3357:HIS:HB3	1.31	1.06
2:B:4961:CYS:SG	2:B:4983:HIS:CE1	2.45	1.06
2:I:3320:LEU:HD23	2:I:3357:HIS:HB3	1.31	1.06
2:A:2469:ILE:HG22	2:A:2502:MET:HE3	1.36	1.06
2:A:3309:SER:HB2	2:A:3348:ARG:NH1	1.69	1.06
2:G:2967:MET:HE1	2:G:3045:LYS:HB2	1.38	1.06
2:G:3327:LEU:HD12	2:G:3368:ARG:HH21	1.16	1.06
2:I:2185:ILE:HD13	2:I:2203:MET:HE3	1.12	1.06
2:A:4791:TYR:CZ	2:A:4818:MET:CE	2.36	1.06
1:O:2:VAL:HG11	1:O:61:GLU:HG2	1.35	1.06
2:G:4961:CYS:SG	2:G:4983:HIS:CE1	2.45	1.06
2:A:3309:SER:CB	2:A:3348:ARG:CZ	2.34	1.05
2:B:4791:TYR:CZ	2:B:4818:MET:CE	2.36	1.05
2:I:3051:ARG:HH11	2:I:3052:HIS:CD2	1.64	1.05
2:I:4961:CYS:SG	2:I:4983:HIS:CE1	2.45	1.05
2:B:3327:LEU:HD12	2:B:3368:ARG:HH21	1.16	1.05
2:I:3309:SER:HB2	2:I:3348:ARG:NH1	1.69	1.05
2:G:3309:SER:CB	2:G:3348:ARG:CZ	2.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3309:SER:CB	2:B:3348:ARG:CZ	2.34	1.05
2:A:2575:ARG:NH1	2:A:2578:MET:HE3	1.71	1.04
2:A:4092:ASP:CA	2:A:4095:LYS:HZ3	1.64	1.04
2:B:2575:ARG:HH12	2:B:2578:MET:HE1	1.16	1.04
2:G:2788:HIS:HD2	2:G:2790:MET:SD	1.76	1.04
2:B:3320:LEU:HD23	2:B:3357:HIS:HB3	1.31	1.04
2:I:2788:HIS:HD2	2:I:2790:MET:SD	1.76	1.04
2:I:2816:MET:HE2	2:I:2927:LEU:HD21	1.39	1.04
2:I:3309:SER:CB	2:I:3348:ARG:CZ	2.34	1.04
2:I:4791:TYR:CZ	2:I:4818:MET:CE	2.36	1.04
2:A:2575:ARG:HH12	2:A:2578:MET:HE1	1.17	1.04
2:G:3051:ARG:HH11	2:G:3052:HIS:CD2	1.64	1.04
2:G:3201:MET:CE	2:G:3205:PHE:CD1	2.41	1.04
2:G:3309:SER:HB2	2:G:3348:ARG:NH1	1.69	1.04
2:B:2894:LEU:HA	2:B:2897:LYS:HZ2	1.11	1.04
2:B:3309:SER:HB2	2:B:3348:ARG:NH1	1.69	1.04
2:A:3327:LEU:HD12	2:A:3368:ARG:HH21	1.16	1.04
2:I:4157:ASP:OD1	2:I:4159:ARG:HG2	1.58	1.04
2:A:3201:MET:CE	2:A:3205:PHE:CD1	2.41	1.03
2:B:2788:HIS:HD2	2:B:2790:MET:SD	1.76	1.03
2:I:2566:ALA:CA	2:I:2569:PHE:HE1	1.71	1.03
2:A:2566:ALA:CA	2:A:2569:PHE:HE1	1.71	1.03
2:B:4157:ASP:OD1	2:B:4159:ARG:HG2	1.58	1.03
2:A:2788:HIS:HD2	2:A:2790:MET:SD	1.76	1.03
2:A:4157:ASP:OD1	2:A:4159:ARG:HG2	1.58	1.03
2:G:2566:ALA:CA	2:G:2569:PHE:HE1	1.71	1.03
2:G:4157:ASP:OD1	2:G:4159:ARG:HG2	1.58	1.03
2:B:2575:ARG:NH1	2:B:2578:MET:HE3	1.72	1.03
2:B:3201:MET:CE	2:B:3205:PHE:CD1	2.41	1.03
2:B:2566:ALA:CA	2:B:2569:PHE:HE1	1.71	1.02
2:A:1943:LEU:CD1	2:A:2101:MET:HE3	1.90	1.02
2:A:2615:ARG:CZ	2:A:2618:MET:HE2	1.88	1.02
2:B:2499:LYS:HG2	2:B:2553:TYR:OH	1.59	1.02
2:I:3201:MET:CE	2:I:3205:PHE:CD1	2.41	1.02
2:G:4092:ASP:CA	2:G:4095:LYS:HZ3	1.69	1.02
2:B:2098:VAL:HA	2:B:2101:MET:HE2	1.41	1.02
2:G:2499:LYS:HG2	2:G:2553:TYR:OH	1.59	1.02
2:I:2098:VAL:HA	2:I:2101:MET:HE2	1.42	1.02
2:A:4650:HIS:HE1	2:A:4812:HIS:CE1	1.78	1.01
2:G:4650:HIS:HE1	2:G:4812:HIS:CE1	1.78	1.01
2:I:4650:HIS:HE1	2:I:4812:HIS:CE1	1.78	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2469:ILE:HG22	2:G:2502:MET:HE3	1.42	1.01
2:I:2499:LYS:HG2	2:I:2553:TYR:OH	1.59	1.01
2:A:3989:VAL:CG2	2:A:4023:MET:CE	2.29	1.01
2:G:1943:LEU:CD1	2:G:2101:MET:HE3	1.90	1.01
2:B:2469:ILE:HG22	2:B:2502:MET:HE3	1.43	1.00
2:A:2098:VAL:HG22	2:A:2101:MET:CE	1.91	1.00
2:A:2499:LYS:HG2	2:A:2553:TYR:OH	1.59	1.00
2:B:4092:ASP:HA	2:B:4095:LYS:HZ2	1.18	1.00
2:B:4650:HIS:HE1	2:B:4812:HIS:CE1	1.78	1.00
2:A:2469:ILE:CG2	2:A:2502:MET:HE3	1.89	1.00
2:G:2816:MET:HE1	2:G:2927:LEU:CD2	1.92	0.99
2:B:2098:VAL:HG22	2:B:2101:MET:CE	1.91	0.99
2:G:2575:ARG:NH1	2:G:2578:MET:HE3	1.74	0.99
2:A:2816:MET:HE2	2:A:2927:LEU:HD21	1.44	0.99
2:G:2098:VAL:HG22	2:G:2101:MET:CE	1.91	0.99
2:I:2098:VAL:HG22	2:I:2101:MET:CE	1.91	0.99
2:B:2566:ALA:O	2:B:2569:PHE:CD1	2.16	0.99
2:G:2469:ILE:HG21	2:G:2502:MET:HE1	1.45	0.99
2:G:2566:ALA:O	2:G:2569:PHE:CD1	2.16	0.99
2:G:2575:ARG:NH1	2:G:2578:MET:HE1	1.71	0.99
2:B:2816:MET:HE1	2:B:2927:LEU:CD2	1.92	0.98
2:B:3051:ARG:HH12	2:B:3052:HIS:CD2	1.73	0.98
2:A:2566:ALA:O	2:A:2569:PHE:CD1	2.16	0.98
2:I:2566:ALA:O	2:I:2569:PHE:CD1	2.16	0.98
2:G:1993:ARG:HB3	2:G:1994:ARG:HH21	1.29	0.97
2:I:4092:ASP:HA	2:I:4095:LYS:HZ2	1.23	0.97
2:A:3068:LEU:HG	2:A:3139:VAL:HG21	1.46	0.97
2:A:4791:TYR:CE1	2:A:4818:MET:HE2	1.91	0.97
2:I:3205:PHE:HE2	2:I:3276:MET:CE	1.78	0.97
2:G:3205:PHE:HE2	2:G:3276:MET:CE	1.78	0.97
2:G:3068:LEU:HG	2:G:3139:VAL:HG21	1.46	0.97
2:I:3068:LEU:HG	2:I:3139:VAL:HG21	1.46	0.97
2:B:1993:ARG:HB3	2:B:1994:ARG:HH21	1.29	0.97
2:B:3068:LEU:HG	2:B:3139:VAL:HG21	1.46	0.97
2:A:3205:PHE:HE2	2:A:3276:MET:CE	1.78	0.96
2:G:3051:ARG:HH12	2:G:3052:HIS:CD2	1.73	0.96
2:B:2816:MET:HE2	2:B:2927:LEU:HD21	1.47	0.96
2:B:2469:ILE:HG21	2:B:2502:MET:HE1	1.43	0.96
2:A:1993:ARG:HB3	2:A:1994:ARG:HH21	1.29	0.96
2:G:2967:MET:HE3	2:G:3045:LYS:HB3	1.42	0.96
2:G:2816:MET:HE2	2:G:2927:LEU:HD21	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2967:MET:HE3	2:I:3045:LYS:HB3	1.44	0.96
2:B:3813:GLN:O	2:B:3899:PHE:HZ	1.49	0.96
2:I:1943:LEU:CD1	2:I:2101:MET:HE3	1.95	0.96
2:I:2816:MET:HE3	2:I:2878:LEU:CD1	1.95	0.96
2:A:2816:MET:HE1	2:A:2927:LEU:CD2	1.96	0.96
2:A:2967:MET:CE	2:A:3045:LYS:CB	2.44	0.96
2:A:2816:MET:HE3	2:A:2878:LEU:CD1	1.96	0.96
2:I:3309:SER:OG	2:I:3348:ARG:NH2	1.98	0.96
2:G:3309:SER:OG	2:G:3348:ARG:NH2	1.98	0.95
2:G:3989:VAL:HG23	2:G:4023:MET:HE1	1.46	0.95
2:B:3205:PHE:HE2	2:B:3276:MET:CE	1.78	0.95
2:G:2967:MET:CE	2:G:3045:LYS:CB	2.44	0.95
2:B:2575:ARG:NH1	2:B:2578:MET:HE1	1.73	0.95
2:I:3989:VAL:HG23	2:I:4023:MET:HE1	1.46	0.95
2:G:2098:VAL:HA	2:G:2101:MET:HE2	1.46	0.95
2:B:2967:MET:CE	2:B:3045:LYS:CB	2.44	0.95
2:B:3309:SER:OG	2:B:3348:ARG:NH2	1.98	0.95
2:B:3989:VAL:HG23	2:B:4023:MET:HE1	1.46	0.95
2:I:2967:MET:CE	2:I:3045:LYS:CB	2.44	0.95
2:G:2816:MET:HE3	2:G:2878:LEU:CD1	1.97	0.95
2:G:4791:TYR:OH	2:G:4818:MET:HE2	1.66	0.95
2:I:1993:ARG:HB3	2:I:1994:ARG:HH21	1.29	0.95
2:I:2472:LEU:HD12	2:I:2473:PRO:HD2	1.49	0.95
2:A:3309:SER:OG	2:A:3348:ARG:NH2	1.98	0.95
2:B:2472:LEU:HD12	2:B:2473:PRO:HD2	1.49	0.94
2:B:2816:MET:HE3	2:B:2878:LEU:CD1	1.97	0.94
2:A:2098:VAL:HA	2:A:2101:MET:HE2	1.46	0.94
2:A:2472:LEU:HD12	2:A:2473:PRO:HD2	1.49	0.94
2:A:4823:LEU:HD11	2:B:4839:MET:HB3	1.49	0.94
2:B:2185:ILE:HD13	2:B:2203:MET:CE	1.97	0.94
2:I:2575:ARG:NH1	2:I:2578:MET:HE1	1.76	0.94
2:A:3201:MET:CE	2:A:3205:PHE:HD1	1.77	0.94
2:B:4791:TYR:OH	2:B:4818:MET:HE2	1.64	0.94
2:I:2816:MET:HE3	2:I:2878:LEU:HD12	1.47	0.94
2:A:2185:ILE:HD13	2:A:2203:MET:CE	1.97	0.94
2:G:2575:ARG:HH11	2:G:2578:MET:CE	1.78	0.94
2:I:3813:GLN:O	2:I:3899:PHE:HZ	1.49	0.94
2:G:2472:LEU:HD12	2:G:2473:PRO:HD2	1.49	0.94
2:G:2185:ILE:HD13	2:G:2203:MET:CE	1.97	0.94
2:G:3813:GLN:O	2:G:3899:PHE:HZ	1.49	0.94
2:B:1943:LEU:CD1	2:B:2101:MET:HE3	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2185:ILE:HD13	2:I:2203:MET:CE	1.97	0.94
2:A:2788:HIS:CD2	2:A:2790:MET:CG	2.52	0.93
2:B:2967:MET:HE3	2:B:3045:LYS:HB3	1.50	0.93
2:A:3813:GLN:O	2:A:3899:PHE:HZ	1.49	0.93
2:A:2967:MET:HE3	2:A:3045:LYS:HE2	1.51	0.93
2:G:2469:ILE:CG2	2:G:2502:MET:HE3	1.97	0.93
2:G:4092:ASP:HA	2:G:4095:LYS:HZ3	1.14	0.93
2:B:2788:HIS:CD2	2:B:2790:MET:CG	2.52	0.93
2:A:3051:ARG:HH12	2:A:3052:HIS:CD2	1.73	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:CG	2.52	0.92
2:A:2575:ARG:HH11	2:A:2578:MET:CE	1.78	0.92
2:B:3201:MET:CE	2:B:3205:PHE:HD1	1.77	0.92
2:I:2469:ILE:HG21	2:I:2502:MET:CE	1.98	0.92
2:A:3107:VAL:HA	2:A:3110:LEU:HD12	1.51	0.92
2:G:2469:ILE:HG22	2:G:2502:MET:CE	1.98	0.92
2:G:3201:MET:CE	2:G:3205:PHE:HD1	1.77	0.92
2:I:2469:ILE:HG22	2:I:2502:MET:CE	1.97	0.92
1:F:19:GLY:HA2	1:F:49:ARG:HH21	1.35	0.92
2:A:2788:HIS:CD2	2:A:2790:MET:HG3	2.05	0.92
2:G:2098:VAL:HG22	2:G:2101:MET:HE1	1.51	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:CG	2.52	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:HG3	2.05	0.92
2:B:2964:LEU:HD21	2:B:3042:LEU:HD12	1.52	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:HG3	2.05	0.92
2:I:2575:ARG:HH11	2:I:2578:MET:CE	1.78	0.92
2:B:3107:VAL:HA	2:B:3110:LEU:HD12	1.51	0.91
2:I:2964:LEU:HD21	2:I:3042:LEU:HD12	1.52	0.91
2:I:3051:ARG:HH12	2:I:3052:HIS:CD2	1.73	0.91
2:A:2967:MET:HE3	2:A:3045:LYS:HB3	1.51	0.91
2:B:2788:HIS:CD2	2:B:2790:MET:HG3	2.05	0.91
2:A:456:SER:HB3	2:A:459:LEU:HD23	1.53	0.91
2:I:2816:MET:CE	2:I:2927:LEU:CD2	2.48	0.91
2:I:3107:VAL:HA	2:I:3110:LEU:HD12	1.51	0.91
2:B:456:SER:HB3	2:B:459:LEU:HD23	1.53	0.91
2:A:2816:MET:CE	2:A:2927:LEU:CD2	2.48	0.91
2:G:456:SER:HB3	2:G:459:LEU:HD23	1.53	0.91
1:O:19:GLY:HA2	1:O:49:ARG:HH21	1.35	0.91
2:G:3107:VAL:HA	2:G:3110:LEU:HD12	1.51	0.91
2:A:2816:MET:HE3	2:A:2878:LEU:HD12	1.51	0.91
2:A:4092:ASP:HA	2:A:4095:LYS:HZ2	1.08	0.91
1:H:19:GLY:HA2	1:H:49:ARG:HH21	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:797:HIS:ND1	2:B:821:LEU:HD23	1.87	0.90
2:B:2575:ARG:HH11	2:B:2578:MET:CE	1.78	0.90
2:B:2816:MET:CE	2:B:2927:LEU:CD2	2.48	0.90
2:B:2967:MET:HE3	2:B:3045:LYS:HE2	1.52	0.90
2:I:456:SER:HB3	2:I:459:LEU:HD23	1.53	0.90
2:A:2469:ILE:HG21	2:A:2502:MET:CE	1.98	0.90
2:G:2469:ILE:HG21	2:G:2502:MET:CE	1.98	0.90
2:I:797:HIS:ND1	2:I:821:LEU:HD23	1.87	0.90
2:B:5013:MET:HE3	2:B:5021:PHE:HB3	1.54	0.90
2:A:3205:PHE:HE2	2:A:3276:MET:HE2	1.32	0.90
2:G:2816:MET:CE	2:G:2927:LEU:CD2	2.48	0.90
2:G:4092:ASP:CB	2:G:4095:LYS:HZ3	1.83	0.90
2:I:3201:MET:CE	2:I:3205:PHE:HD1	1.77	0.90
2:A:2964:LEU:HD21	2:A:3042:LEU:HD12	1.52	0.90
2:A:3836:MET:HE1	2:A:3885:PHE:HE1	1.36	0.90
2:G:2964:LEU:HD21	2:G:3042:LEU:HD12	1.52	0.90
2:I:2816:MET:HE1	2:I:2927:LEU:CD2	2.01	0.89
2:A:4092:ASP:CB	2:A:4095:LYS:HZ3	1.85	0.89
2:A:2185:ILE:CD1	2:A:2203:MET:HE3	2.00	0.89
2:B:3205:PHE:HE2	2:B:3276:MET:HE2	1.35	0.89
2:I:2098:VAL:HG22	2:I:2101:MET:HE1	1.55	0.89
2:I:3205:PHE:HE2	2:I:3276:MET:HE2	1.35	0.89
2:A:459:LEU:HD12	2:A:463:GLU:HG2	1.55	0.89
2:B:2967:MET:CE	2:B:3045:LYS:HB3	2.03	0.89
2:I:2894:LEU:CA	2:I:2897:LYS:NZ	2.36	0.89
2:A:797:HIS:ND1	2:A:821:LEU:HD23	1.87	0.89
2:A:2469:ILE:HG21	2:A:2502:MET:HE1	1.52	0.89
2:G:797:HIS:ND1	2:G:821:LEU:HD23	1.87	0.89
2:A:2566:ALA:HA	2:A:2569:PHE:HE1	0.77	0.89
2:G:2788:HIS:NE2	2:G:2790:MET:CG	2.36	0.89
2:G:3445:TRP:CH2	2:G:3452:LYS:HG2	2.09	0.89
2:B:3718:GLU:OE2	2:B:3723:MET:HE3	1.72	0.89
2:I:3718:GLU:OE2	2:I:3723:MET:HE1	1.73	0.89
2:A:2967:MET:HE1	2:A:3045:LYS:CB	2.02	0.88
2:G:459:LEU:HD12	2:G:463:GLU:HG2	1.55	0.88
2:B:2967:MET:HE1	2:B:3045:LYS:CB	2.03	0.88
2:B:4045:VAL:CG1	2:B:4159:ARG:HE	1.86	0.88
1:J:19:GLY:HA2	1:J:49:ARG:HH21	1.35	0.88
2:B:2816:MET:HE3	2:B:2878:LEU:HD12	1.54	0.88
2:B:2894:LEU:CA	2:B:2897:LYS:NZ	2.36	0.88
2:B:2816:MET:CE	2:B:2927:LEU:HD21	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2098:VAL:HG22	2:A:2101:MET:HE1	1.52	0.88
2:A:2894:LEU:CA	2:A:2897:LYS:NZ	2.36	0.88
2:A:3836:MET:HE1	2:A:3885:PHE:CE1	2.08	0.88
2:G:2566:ALA:HA	2:G:2569:PHE:HE1	0.77	0.88
2:B:459:LEU:HD12	2:B:463:GLU:HG2	1.55	0.88
2:B:3836:MET:HE3	2:B:3885:PHE:CZ	2.08	0.88
2:I:69:LEU:HD21	2:I:202:MET:CE	2.03	0.88
2:I:2967:MET:CE	2:I:3045:LYS:HB3	2.03	0.88
2:I:4045:VAL:CG1	2:I:4159:ARG:HE	1.86	0.88
2:A:2788:HIS:NE2	2:A:2790:MET:CG	2.36	0.88
2:G:69:LEU:HD21	2:G:202:MET:CE	2.04	0.88
2:B:2788:HIS:NE2	2:B:2790:MET:CG	2.36	0.88
2:I:2967:MET:HE3	2:I:3045:LYS:HE2	1.55	0.88
2:A:2816:MET:CE	2:A:2927:LEU:HD21	2.03	0.88
2:A:2967:MET:CE	2:A:3045:LYS:HB2	2.03	0.88
2:I:2816:MET:CE	2:I:2927:LEU:HD21	2.03	0.88
2:G:2967:MET:CE	2:G:3045:LYS:HB3	2.03	0.88
2:B:69:LEU:HD21	2:B:202:MET:CE	2.03	0.88
2:I:2788:HIS:NE2	2:I:2790:MET:CG	2.36	0.88
2:B:2469:ILE:CG2	2:B:2502:MET:HE1	2.00	0.88
2:B:2469:ILE:HG22	2:B:2502:MET:CE	1.98	0.88
2:I:2697:ARG:HA	2:I:2700:MET:HE1	1.54	0.88
2:G:2816:MET:HE3	2:G:2878:LEU:HD12	1.54	0.88
2:G:2894:LEU:CA	2:G:2897:LYS:NZ	2.36	0.88
2:G:2816:MET:CE	2:G:2927:LEU:HD21	2.03	0.88
2:G:4045:VAL:CG1	2:G:4159:ARG:HE	1.86	0.88
2:I:3445:TRP:CH2	2:I:3452:LYS:HG2	2.09	0.88
2:A:3445:TRP:CH2	2:A:3452:LYS:HG2	2.09	0.87
2:A:4045:VAL:CG1	2:A:4159:ARG:HE	1.86	0.87
2:A:4092:ASP:HA	2:A:4095:LYS:HZ3	1.07	0.87
2:I:459:LEU:HD12	2:I:463:GLU:HG2	1.55	0.87
2:G:2967:MET:HE3	2:G:3045:LYS:CB	2.02	0.87
2:A:3718:GLU:OE2	2:A:3723:MET:HE1	1.73	0.87
2:I:3836:MET:HE3	2:I:3885:PHE:CZ	2.09	0.87
2:A:2967:MET:CE	2:A:3045:LYS:HB3	2.03	0.87
2:I:2185:ILE:CD1	2:I:2203:MET:HE3	2.03	0.87
2:A:69:LEU:HD21	2:A:202:MET:CE	2.03	0.87
2:G:3836:MET:HE1	2:G:3885:PHE:HE1	1.38	0.87
2:I:2967:MET:HE3	2:I:3045:LYS:CB	2.03	0.87
2:I:2967:MET:CE	2:I:3045:LYS:HB2	2.03	0.87
2:G:2967:MET:CE	2:G:3045:LYS:HB2	2.03	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2967:MET:HE3	2:G:3045:LYS:HE2	1.56	0.86
2:G:2185:ILE:CD1	2:G:2203:MET:HE3	2.03	0.86
2:G:3205:PHE:HE2	2:G:3276:MET:HE2	1.39	0.86
2:B:4092:ASP:CB	2:B:4095:LYS:HZ3	1.88	0.86
2:A:2697:ARG:HA	2:A:2700:MET:HE1	1.57	0.86
2:B:3445:TRP:CH2	2:B:3452:LYS:HG2	2.09	0.86
2:I:897:ARG:HB2	2:I:903:LEU:HD11	1.58	0.86
2:A:3413:ILE:CD1	2:A:3469:PHE:O	2.24	0.86
2:A:4791:TYR:HE1	2:A:4818:MET:CE	1.89	0.86
2:B:2967:MET:CE	2:B:3045:LYS:HB2	2.03	0.86
2:A:3080:VAL:HG12	2:A:3081:MET:HE3	1.56	0.85
2:G:3836:MET:HE1	2:G:3885:PHE:CE1	2.10	0.85
2:B:2566:ALA:HA	2:B:2569:PHE:HE1	0.77	0.85
2:I:2615:ARG:CZ	2:I:2618:MET:HE1	2.01	0.85
2:A:981:GLN:HG2	2:A:1047:LEU:HD11	1.58	0.85
2:B:2098:VAL:HG22	2:B:2101:MET:HE1	1.55	0.85
2:I:3035:GLU:HA	2:I:3038:MET:HE3	1.57	0.85
2:G:981:GLN:HG2	2:G:1047:LEU:HD11	1.58	0.85
2:I:981:GLN:HG2	2:I:1047:LEU:HD11	1.58	0.85
2:G:3413:ILE:CD1	2:G:3469:PHE:O	2.24	0.85
2:B:981:GLN:HG2	2:B:1047:LEU:HD11	1.58	0.85
2:B:1064:GLU:O	2:B:1071:ARG:NH2	2.10	0.85
2:A:2469:ILE:HG22	2:A:2502:MET:CE	1.98	0.85
2:A:4650:HIS:CE1	2:A:4812:HIS:CE1	2.64	0.85
2:B:3413:ILE:CD1	2:B:3469:PHE:O	2.24	0.85
2:B:3445:TRP:CZ3	2:B:3452:LYS:HG2	2.12	0.85
2:I:2566:ALA:HA	2:I:2569:PHE:HE1	0.77	0.85
2:G:3445:TRP:CZ3	2:G:3452:LYS:HG2	2.12	0.85
2:A:1064:GLU:O	2:A:1071:ARG:NH2	2.10	0.85
2:A:2575:ARG:NH1	2:A:2578:MET:HE1	1.74	0.85
2:B:4650:HIS:CE1	2:B:4812:HIS:CE1	2.64	0.85
2:B:897:ARG:HB2	2:B:903:LEU:HD11	1.58	0.84
2:I:4650:HIS:CE1	2:I:4812:HIS:CE1	2.64	0.84
2:B:2469:ILE:CG2	2:B:2502:MET:HE3	1.99	0.84
2:I:3836:MET:HE1	2:I:3885:PHE:HE1	1.41	0.84
2:I:3413:ILE:CD1	2:I:3469:PHE:O	2.24	0.84
2:I:4791:TYR:OH	2:I:4818:MET:HE2	1.76	0.84
2:B:2469:ILE:HG21	2:B:2502:MET:CE	1.98	0.84
2:I:3141:THR:HG1	2:I:3193:CYS:HG	1.21	0.84
2:A:4839:MET:HB3	2:G:4823:LEU:HD11	1.59	0.84
2:G:3836:MET:HE3	2:G:3885:PHE:CZ	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2697:ARG:HA	2:B:2700:MET:HE1	1.59	0.84
2:A:3445:TRP:CZ3	2:A:3452:LYS:HG2	2.12	0.84
2:A:897:ARG:HB2	2:A:903:LEU:HD11	1.58	0.84
2:G:1064:GLU:O	2:G:1071:ARG:NH2	2.10	0.84
2:G:4839:MET:HB3	2:I:4823:LEU:HD11	1.59	0.84
2:G:2697:ARG:HA	2:G:2700:MET:CE	2.07	0.84
2:I:2469:ILE:HG21	2:I:2502:MET:HE1	1.60	0.84
2:B:3080:VAL:HG12	2:B:3081:MET:CE	2.08	0.83
2:G:4650:HIS:CE1	2:G:4812:HIS:CE1	2.64	0.83
2:I:2310:CYS:SG	2:I:2324:ASN:ND2	2.51	0.83
2:I:3445:TRP:CZ3	2:I:3452:LYS:HG2	2.12	0.83
2:A:2697:ARG:HA	2:A:2700:MET:CE	2.07	0.83
2:A:797:HIS:CE1	2:A:821:LEU:HD23	2.14	0.83
2:A:5013:MET:HE3	2:A:5021:PHE:HB3	1.60	0.83
2:I:5013:MET:HE3	2:I:5021:PHE:HB3	1.61	0.83
2:A:3989:VAL:HG23	2:A:4023:MET:HE1	1.54	0.83
2:G:5013:MET:HE3	2:G:5021:PHE:HB3	1.60	0.83
2:B:4823:LEU:HD11	2:I:4839:MET:HB3	1.61	0.83
2:B:797:HIS:CE1	2:B:821:LEU:HD23	2.14	0.83
2:I:2697:ARG:HA	2:I:2700:MET:CE	2.07	0.83
2:A:2310:CYS:SG	2:A:2324:ASN:ND2	2.51	0.83
2:G:4791:TYR:HE1	2:G:4818:MET:CE	1.89	0.83
2:B:2697:ARG:HA	2:B:2700:MET:CE	2.08	0.83
2:I:2469:ILE:HB	2:I:2502:MET:SD	2.19	0.83
2:I:4045:VAL:CG1	2:I:4159:ARG:NE	2.42	0.83
2:I:3836:MET:CE	2:I:3885:PHE:CE1	2.62	0.83
2:I:4092:ASP:CB	2:I:4095:LYS:HZ3	1.90	0.83
2:G:3080:VAL:HG12	2:G:3081:MET:HE3	1.57	0.83
2:A:4045:VAL:CG1	2:A:4159:ARG:NE	2.42	0.83
2:G:797:HIS:CE1	2:G:821:LEU:HD23	2.14	0.83
2:G:2472:LEU:HD23	2:G:2494:PHE:CE2	2.14	0.83
2:G:3836:MET:CE	2:G:3885:PHE:CE1	2.62	0.82
2:A:2472:LEU:HD23	2:A:2494:PHE:CE2	2.14	0.82
2:G:897:ARG:HB2	2:G:903:LEU:HD11	1.58	0.82
2:B:2469:ILE:HB	2:B:2502:MET:SD	2.19	0.82
2:B:3836:MET:HE1	2:B:3885:PHE:HE1	1.42	0.82
2:I:797:HIS:CE1	2:I:821:LEU:HD23	2.14	0.82
2:A:2469:ILE:HB	2:A:2502:MET:SD	2.19	0.82
2:G:2362:GLU:HA	2:G:2369:ARG:CZ	2.09	0.82
2:G:4092:ASP:HA	2:G:4095:LYS:HZ2	1.02	0.82
2:I:3989:VAL:HG23	2:I:4023:MET:HE2	0.82	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3080:VAL:HG12	2:A:3081:MET:CE	2.08	0.82
2:G:2469:ILE:HB	2:G:2502:MET:SD	2.19	0.82
2:G:4045:VAL:CG1	2:G:4159:ARG:NE	2.42	0.82
2:B:2472:LEU:HD23	2:B:2494:PHE:CE2	2.14	0.82
2:A:2362:GLU:HA	2:A:2369:ARG:CZ	2.09	0.82
2:G:3080:VAL:HG12	2:G:3081:MET:CE	2.08	0.82
2:B:3836:MET:CE	2:B:3885:PHE:CE1	2.62	0.82
2:I:1064:GLU:O	2:I:1071:ARG:NH2	2.10	0.82
2:I:3080:VAL:HG12	2:I:3081:MET:CE	2.08	0.82
2:A:3836:MET:CE	2:A:3885:PHE:CE1	2.62	0.82
2:B:2310:CYS:SG	2:B:2324:ASN:ND2	2.51	0.82
2:B:3989:VAL:HG23	2:B:4023:MET:HE2	0.83	0.82
2:B:4045:VAL:CG1	2:B:4159:ARG:NE	2.42	0.82
2:I:2362:GLU:HA	2:I:2369:ARG:CZ	2.10	0.82
2:B:2362:GLU:HA	2:B:2369:ARG:CZ	2.09	0.82
2:A:3035:GLU:HA	2:A:3038:MET:HE3	1.61	0.81
2:G:3989:VAL:HG23	2:G:4023:MET:HE2	0.82	0.81
2:G:2472:LEU:CD1	2:G:2473:PRO:HD2	2.10	0.81
2:I:3057:PHE:HB3	2:I:3060:ASP:HB2	1.63	0.81
2:A:3057:PHE:HB3	2:A:3060:ASP:HB2	1.63	0.81
2:G:2310:CYS:SG	2:G:2324:ASN:ND2	2.51	0.81
2:G:3413:ILE:HD11	2:G:3469:PHE:O	1.81	0.81
2:I:2472:LEU:HD23	2:I:2494:PHE:CE2	2.14	0.81
2:A:2908:TYR:HA	2:A:2911:LEU:HD23	1.63	0.81
2:B:2472:LEU:CD1	2:B:2473:PRO:HD2	2.10	0.81
2:I:3327:LEU:HD12	2:I:3368:ARG:NH2	1.96	0.81
2:A:3836:MET:HE3	2:A:3885:PHE:CZ	2.14	0.81
2:G:3327:LEU:HD12	2:G:3368:ARG:NH2	1.96	0.81
2:B:2155:LEU:HD11	2:B:2198:MET:HE3	1.63	0.81
2:I:3162:GLN:HG3	2:I:3218:VAL:HG13	1.62	0.81
2:A:2155:LEU:HD11	2:A:2198:MET:HE3	1.63	0.81
2:A:3162:GLN:HG3	2:A:3218:VAL:HG13	1.63	0.81
2:G:3162:GLN:HG3	2:G:3218:VAL:HG13	1.63	0.81
2:B:1943:LEU:HD13	2:B:2101:MET:HE1	1.61	0.81
2:B:3327:LEU:HD12	2:B:3368:ARG:NH2	1.96	0.81
2:A:3327:LEU:HD12	2:A:3368:ARG:NH2	1.96	0.81
2:I:3836:MET:HE1	2:I:3885:PHE:CE1	2.15	0.81
2:B:2185:ILE:CD1	2:B:2203:MET:HE3	2.08	0.81
2:B:3201:MET:SD	2:B:3203:VAL:HG12	2.21	0.81
2:A:2615:ARG:CZ	2:A:2618:MET:HE1	1.96	0.81
2:A:3201:MET:SD	2:A:3203:VAL:HG12	2.21	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3413:ILE:HD11	2:A:3469:PHE:O	1.81	0.81
2:G:2908:TYR:HA	2:G:2911:LEU:HD23	1.63	0.81
2:G:3057:PHE:HB3	2:G:3060:ASP:HB2	1.63	0.81
2:B:3057:PHE:HB3	2:B:3060:ASP:HB2	1.63	0.81
2:A:2472:LEU:CD1	2:A:2473:PRO:HD2	2.10	0.80
2:B:3413:ILE:HD11	2:B:3469:PHE:O	1.81	0.80
2:I:3413:ILE:HD11	2:I:3469:PHE:O	1.81	0.80
2:B:2908:TYR:HA	2:B:2911:LEU:HD23	1.63	0.80
2:I:2908:TYR:HA	2:I:2911:LEU:HD23	1.63	0.80
2:I:1943:LEU:HD13	2:I:2101:MET:HE1	1.62	0.80
2:B:2615:ARG:HH21	2:B:2618:MET:HE1	0.99	0.80
2:I:2472:LEU:CD1	2:I:2473:PRO:HD2	2.10	0.80
2:G:3201:MET:SD	2:G:3203:VAL:HG12	2.21	0.80
2:B:3205:PHE:CE2	2:B:3276:MET:CE	2.64	0.80
2:B:3989:VAL:CG2	2:B:4023:MET:HE1	2.08	0.80
2:I:3197:LEU:O	2:I:3197:LEU:HD23	1.83	0.79
2:I:3201:MET:SD	2:I:3203:VAL:HG12	2.21	0.79
2:I:4791:TYR:HE1	2:I:4818:MET:CE	1.89	0.79
2:A:3141:THR:OG1	2:A:3193:CYS:SG	2.40	0.79
2:G:3141:THR:OG1	2:G:3193:CYS:SG	2.40	0.79
2:B:3309:SER:HB2	2:B:3348:ARG:CZ	2.09	0.79
2:B:3162:GLN:HG3	2:B:3218:VAL:HG13	1.63	0.79
2:A:2469:ILE:CG2	2:A:2502:MET:HE1	2.10	0.79
2:B:3141:THR:OG1	2:B:3193:CYS:SG	2.40	0.79
2:A:2321:ILE:HG13	2:A:2322:GLY:H	1.48	0.79
2:A:3205:PHE:CE2	2:A:3276:MET:CE	2.64	0.79
2:B:2321:ILE:HG13	2:B:2322:GLY:H	1.48	0.79
2:B:3104:GLU:O	2:B:3108:GLU:HG2	1.83	0.79
2:B:3836:MET:HE1	2:B:3885:PHE:CE1	2.17	0.79
2:I:3141:THR:OG1	2:I:3193:CYS:SG	2.40	0.79
2:I:3205:PHE:CE2	2:I:3276:MET:CE	2.64	0.79
2:A:3104:GLU:O	2:A:3108:GLU:HG2	1.83	0.79
2:I:3104:GLU:O	2:I:3108:GLU:HG2	1.83	0.79
2:G:3104:GLU:O	2:G:3108:GLU:HG2	1.83	0.79
2:G:3197:LEU:O	2:G:3197:LEU:HD23	1.83	0.79
2:G:3205:PHE:CE2	2:G:3276:MET:CE	2.64	0.78
2:A:4049:VAL:HG21	2:A:4159:ARG:HD2	1.64	0.78
2:B:4092:ASP:HA	2:B:4095:LYS:HZ3	0.97	0.78
2:I:1943:LEU:CD1	2:I:2101:MET:CE	2.57	0.78
2:I:3309:SER:HB2	2:I:3348:ARG:CZ	2.09	0.78
2:G:2377:LEU:HA	2:G:2469:ILE:HD11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3327:LEU:HD21	2:G:3364:ARG:NH1	1.98	0.78
2:A:3197:LEU:O	2:A:3197:LEU:HD23	1.83	0.78
2:G:3150:HIS:HB2	2:G:3152:PHE:CE1	2.18	0.78
2:I:2867:LEU:HD13	2:I:2928:LYS:HA	1.65	0.78
2:A:4823:LEU:CD1	2:B:4839:MET:HB3	2.14	0.78
2:B:1943:LEU:CD1	2:B:2101:MET:CE	2.57	0.78
2:B:3150:HIS:HB2	2:B:3152:PHE:CE1	2.18	0.78
2:I:4049:VAL:HG21	2:I:4159:ARG:HD2	1.64	0.78
2:A:2867:LEU:HD13	2:A:2928:LYS:HA	1.65	0.78
2:G:2697:ARG:HA	2:G:2700:MET:HE1	1.62	0.78
2:B:2595:LEU:HD22	2:B:2599:GLN:CD	2.04	0.78
2:B:3327:LEU:HD21	2:B:3364:ARG:NH1	1.98	0.78
2:A:1947:CYS:SG	2:A:2127:GLN:NE2	2.57	0.78
2:A:3150:HIS:HB2	2:A:3152:PHE:CE1	2.18	0.78
2:G:2615:ARG:HH21	2:G:2618:MET:HE1	0.97	0.78
2:G:3050:VAL:HG22	2:G:3057:PHE:HE2	1.49	0.78
2:B:3080:VAL:HG12	2:B:3081:MET:HE3	1.65	0.78
2:B:3197:LEU:O	2:B:3197:LEU:HD23	1.83	0.78
2:B:4049:VAL:HG21	2:B:4159:ARG:HD2	1.64	0.78
2:I:2615:ARG:HH21	2:I:2618:MET:HE1	0.97	0.78
2:A:2377:LEU:HA	2:A:2469:ILE:HD11	1.66	0.78
2:I:2321:ILE:HG13	2:I:2322:GLY:H	1.48	0.78
2:I:2967:MET:HE1	2:I:3045:LYS:CB	2.09	0.78
2:I:3187:ARG:NH1	2:I:3267:PRO:HB2	1.99	0.78
2:I:3989:VAL:CG2	2:I:4023:MET:HE1	2.08	0.78
2:B:2500:ALA:N	2:B:2553:TYR:HE1	1.82	0.78
2:I:2595:LEU:HD22	2:I:2599:GLN:CD	2.04	0.78
2:I:3080:VAL:HG12	2:I:3081:MET:HE3	1.65	0.78
2:A:4045:VAL:HG12	2:A:4159:ARG:HE	1.46	0.78
2:I:3150:HIS:HB2	2:I:3152:PHE:CE1	2.18	0.78
2:I:3395:ARG:HH21	2:I:3454:GLU:HB2	1.49	0.78
2:G:2595:LEU:HD22	2:G:2599:GLN:CD	2.04	0.77
2:B:2967:MET:HE3	2:B:3045:LYS:CB	2.09	0.77
2:I:1947:CYS:SG	2:I:2127:GLN:NE2	2.57	0.77
2:I:3050:VAL:HG22	2:I:3057:PHE:HE2	1.49	0.77
2:G:2867:LEU:HD13	2:G:2928:LYS:HA	1.65	0.77
2:G:3187:ARG:NH1	2:G:3267:PRO:HB2	1.99	0.77
2:I:3327:LEU:HD21	2:I:3364:ARG:NH1	1.98	0.77
2:A:3327:LEU:HD21	2:A:3364:ARG:NH1	1.98	0.77
2:A:4060:LYS:HE3	2:A:4107:GLU:OE1	1.84	0.77
2:B:2377:LEU:HA	2:B:2469:ILE:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1947:CYS:SG	2:G:2127:GLN:NE2	2.57	0.77
2:G:2321:ILE:HG13	2:G:2322:GLY:H	1.48	0.77
2:G:3035:GLU:HA	2:G:3038:MET:HE3	1.65	0.77
2:G:3718:GLU:OE2	2:G:3723:MET:HE1	1.85	0.77
2:A:2595:LEU:HD22	2:A:2599:GLN:CD	2.04	0.77
2:G:4060:LYS:HE3	2:G:4107:GLU:OE1	1.84	0.77
2:B:1947:CYS:SG	2:B:2127:GLN:NE2	2.57	0.77
2:B:3035:GLU:HA	2:B:3038:MET:HE3	1.65	0.77
2:B:3050:VAL:HG22	2:B:3057:PHE:HE2	1.49	0.77
2:I:4092:ASP:CB	2:I:4095:LYS:NZ	2.47	0.77
2:A:2500:ALA:N	2:A:2553:TYR:HE1	1.82	0.77
2:A:3395:ARG:HH21	2:A:3454:GLU:HB2	1.49	0.77
2:G:3989:VAL:CG2	2:G:4023:MET:HE1	2.08	0.77
2:G:4049:VAL:HG21	2:G:4159:ARG:HD2	1.64	0.77
2:I:2377:LEU:HA	2:I:2469:ILE:HD11	1.66	0.77
2:A:3050:VAL:HG22	2:A:3057:PHE:HE2	1.49	0.77
2:A:1699:GLU:OE2	2:A:1813:ARG:NH1	2.18	0.77
2:A:3187:ARG:NH1	2:A:3267:PRO:HB2	1.99	0.77
2:B:2867:LEU:HD13	2:B:2928:LYS:HA	1.65	0.77
1:F:58:GLY:HA2	1:F:61:GLU:CD	2.06	0.76
2:A:2615:ARG:HH21	2:A:2618:MET:HE1	0.97	0.76
2:A:2967:MET:HE3	2:A:3045:LYS:CB	2.11	0.76
2:G:3395:ARG:HH21	2:G:3454:GLU:HB2	1.49	0.76
1:H:58:GLY:HA2	1:H:61:GLU:CD	2.06	0.76
1:J:2:VAL:CG1	1:J:61:GLU:HG2	2.15	0.76
1:O:2:VAL:CG1	1:O:61:GLU:HG2	2.15	0.76
2:A:4791:TYR:OH	2:A:4818:MET:HE2	1.85	0.76
2:B:2551:ASN:HB3	2:B:2599:GLN:HE22	1.50	0.76
1:F:2:VAL:CG1	1:F:61:GLU:HG2	2.15	0.76
2:A:3309:SER:HB2	2:A:3348:ARG:CZ	2.09	0.76
2:G:1228:ILE:HG22	2:G:1827:ARG:HH11	1.51	0.76
2:G:2500:ALA:N	2:G:2553:TYR:HE1	1.82	0.76
2:B:4796:MET:CE	2:B:4800:LEU:HG	2.16	0.76
2:B:4060:LYS:HE3	2:B:4107:GLU:OE1	1.84	0.76
2:I:2500:ALA:N	2:I:2553:TYR:HE1	1.82	0.76
2:G:1024:TYR:O	2:G:1032:LYS:NZ	2.19	0.76
2:B:2959:PHE:CE2	2:B:2963:LEU:HD11	2.20	0.76
2:B:4092:ASP:CB	2:B:4095:LYS:NZ	2.47	0.76
2:I:4060:LYS:HE3	2:I:4107:GLU:OE1	1.84	0.76
2:G:2959:PHE:CE2	2:G:2963:LEU:HD11	2.20	0.76
2:A:2551:ASN:HB3	2:A:2599:GLN:HE22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2959:PHE:CE2	2:A:2963:LEU:HD11	2.20	0.76
2:G:2469:ILE:CG2	2:G:2502:MET:HE1	2.02	0.76
2:B:3187:ARG:NH1	2:B:3267:PRO:HB2	1.99	0.76
2:A:1228:ILE:HG22	2:A:1827:ARG:HH11	1.51	0.75
2:G:1943:LEU:CD1	2:G:2101:MET:CE	2.57	0.75
2:B:1024:TYR:O	2:B:1032:LYS:NZ	2.19	0.75
2:B:1228:ILE:HG22	2:B:1827:ARG:HH11	1.51	0.75
1:H:2:VAL:CG1	1:H:61:GLU:HG2	2.15	0.75
1:O:58:GLY:HA2	1:O:61:GLU:CD	2.06	0.75
2:G:1699:GLU:OE2	2:G:1813:ARG:NH1	2.18	0.75
2:B:3395:ARG:HH21	2:B:3454:GLU:HB2	1.49	0.75
2:I:1699:GLU:OE2	2:I:1813:ARG:NH1	2.18	0.75
2:A:3219:TYR:OH	2:A:3233:PRO:O	2.03	0.75
1:J:58:GLY:HA2	1:J:61:GLU:CD	2.06	0.75
2:B:1699:GLU:OE2	2:B:1813:ARG:NH1	2.18	0.75
2:G:3219:TYR:OH	2:G:3233:PRO:O	2.03	0.75
2:A:2283:ASN:HD22	2:A:2286:LEU:HD12	1.52	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:HH11	1.49	0.75
2:I:2155:LEU:HD11	2:I:2198:MET:HE3	1.67	0.75
2:A:1024:TYR:O	2:A:1032:LYS:NZ	2.19	0.75
2:G:3205:PHE:CE2	2:G:3276:MET:HE3	2.20	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:CZ	2.09	0.75
2:B:2283:ASN:HD22	2:B:2286:LEU:HD12	1.52	0.75
2:B:3219:TYR:OH	2:B:3233:PRO:O	2.03	0.75
2:I:1024:TYR:O	2:I:1032:LYS:NZ	2.19	0.75
2:I:3219:TYR:OH	2:I:3233:PRO:O	2.03	0.75
2:G:3416:VAL:HG21	2:G:3517:MET:HE2	1.69	0.75
2:B:3425:THR:HG23	2:B:3426:GLU:HG2	1.69	0.75
2:A:5013:MET:CE	2:A:5021:PHE:HB3	2.17	0.75
2:G:2155:LEU:HD11	2:G:2198:MET:HE3	1.68	0.75
2:G:4796:MET:CE	2:G:4800:LEU:HG	2.16	0.75
2:B:2566:ALA:CA	2:B:2569:PHE:CE1	2.56	0.75
2:I:2959:PHE:CE2	2:I:2963:LEU:HD11	2.20	0.75
2:I:3416:VAL:HG21	2:I:3517:MET:HE2	1.68	0.75
2:A:2967:MET:CE	2:A:3045:LYS:HE2	2.16	0.74
2:A:3309:SER:HB2	2:A:3348:ARG:HH11	1.49	0.74
2:A:3425:THR:HG23	2:A:3426:GLU:HG2	1.69	0.74
2:A:4796:MET:CE	2:A:4800:LEU:HG	2.16	0.74
2:G:2551:ASN:HB3	2:G:2599:GLN:HE22	1.50	0.74
2:I:3425:THR:HG23	2:I:3426:GLU:HG2	1.69	0.74
2:A:1943:LEU:HD13	2:A:2101:MET:HE1	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4092:ASP:CB	2:A:4095:LYS:NZ	2.47	0.74
2:G:3425:THR:HG23	2:G:3426:GLU:HG2	1.69	0.74
1:H:2:VAL:HG11	1:H:61:GLU:CG	2.15	0.74
2:I:2283:ASN:HD22	2:I:2286:LEU:HD12	1.52	0.74
2:I:2551:ASN:HB3	2:I:2599:GLN:HE22	1.50	0.74
2:I:4796:MET:CE	2:I:4800:LEU:HG	2.16	0.74
2:I:5013:MET:CE	2:I:5021:PHE:HB3	2.17	0.74
2:A:3416:VAL:HG21	2:A:3517:MET:HE2	1.69	0.74
2:G:2816:MET:CE	2:G:2878:LEU:HD12	2.17	0.74
2:B:276:TRP:O	2:B:328:LYS:NZ	2.20	0.74
2:B:2098:VAL:HG22	2:B:2101:MET:HE2	1.70	0.74
2:I:1228:ILE:HG22	2:I:1827:ARG:HH11	1.51	0.74
2:I:3035:GLU:HA	2:I:3038:MET:CE	2.17	0.74
2:G:5013:MET:CE	2:G:5021:PHE:HB3	2.17	0.74
2:I:4795:TYR:CE1	2:I:4812:HIS:ND1	2.56	0.74
2:G:4795:TYR:CE1	2:G:4812:HIS:ND1	2.56	0.74
2:B:4791:TYR:HE1	2:B:4818:MET:CE	1.89	0.74
2:I:2967:MET:CE	2:I:3045:LYS:HE2	2.16	0.74
1:J:2:VAL:HG11	1:J:61:GLU:CG	2.15	0.74
2:G:2967:MET:CE	2:G:3045:LYS:HE2	2.16	0.74
2:B:978:THR:OG1	2:B:981:GLN:OE1	2.06	0.74
2:B:2527:LEU:HA	2:B:2530:MET:HE3	1.69	0.74
2:B:2967:MET:CE	2:B:3045:LYS:HE2	2.16	0.74
2:I:978:THR:OG1	2:I:981:GLN:OE1	2.06	0.74
2:A:2816:MET:CE	2:A:2878:LEU:CD1	2.66	0.73
2:A:3309:SER:HB3	2:A:3348:ARG:NH1	2.01	0.73
2:A:475:GLN:OE1	2:A:533:ASN:ND2	2.21	0.73
2:A:1943:LEU:CD1	2:A:2101:MET:CE	2.57	0.73
2:A:3035:GLU:HA	2:A:3038:MET:CE	2.17	0.73
2:G:1943:LEU:HD13	2:G:2101:MET:HE1	1.68	0.73
2:G:2283:ASN:HD22	2:G:2286:LEU:HD12	1.52	0.73
2:G:2500:ALA:CA	2:G:2553:TYR:HE1	2.01	0.73
2:B:475:GLN:OE1	2:B:533:ASN:ND2	2.21	0.73
2:B:2309:SER:OG	2:B:2320:ASP:OD1	2.06	0.73
2:B:2500:ALA:CA	2:B:2553:TYR:HE1	2.01	0.73
2:B:3035:GLU:HA	2:B:3038:MET:CE	2.17	0.73
2:B:4948:GLU:HA	2:B:4951:LYS:CD	2.18	0.73
2:I:3309:SER:HB3	2:I:3348:ARG:NH1	2.01	0.73
2:G:475:GLN:OE1	2:G:533:ASN:ND2	2.21	0.73
2:G:3281:LEU:HB3	2:G:3312:LEU:HD21	1.70	0.73
2:B:2816:MET:CE	2:B:2878:LEU:HD12	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3309:SER:HB3	2:B:3348:ARG:NH1	2.01	0.73
2:A:4634:GLU:HG3	2:A:4639:MET:HG2	1.70	0.73
2:A:4795:TYR:CE1	2:A:4812:HIS:ND1	2.56	0.73
2:G:320:LYS:NZ	2:G:383:HIS:O	2.22	0.73
2:G:3051:ARG:HH11	2:G:3052:HIS:HD2	0.73	0.73
2:A:2739:PRO:HB3	2:A:2888:ARG:HG3	1.71	0.73
2:A:2816:MET:CE	2:A:2878:LEU:HD12	2.17	0.73
2:A:4948:GLU:HA	2:A:4951:LYS:CD	2.18	0.73
2:G:2309:SER:OG	2:G:2320:ASP:OD1	2.06	0.73
2:G:2466:LEU:HD21	2:G:2506:LEU:HB2	1.70	0.73
2:I:4092:ASP:HA	2:I:4095:LYS:HZ3	0.92	0.73
2:I:4948:GLU:HA	2:I:4951:LYS:CD	2.18	0.73
2:A:3281:LEU:HB3	2:A:3312:LEU:HD21	1.70	0.73
2:G:3035:GLU:HA	2:G:3038:MET:CE	2.17	0.73
2:B:4795:TYR:CE1	2:B:4812:HIS:ND1	2.56	0.73
2:I:475:GLN:OE1	2:I:533:ASN:ND2	2.21	0.73
2:B:2615:ARG:NH2	2:B:2618:MET:HE2	1.82	0.73
2:B:3205:PHE:CE2	2:B:3276:MET:HE3	2.23	0.73
2:B:3842:LEU:HD13	2:B:3954:ALA:HB2	1.71	0.73
2:I:4634:GLU:HG3	2:I:4639:MET:HG2	1.70	0.73
2:A:3934:TYR:HA	2:A:3999:MET:HE2	1.71	0.73
2:G:2739:PRO:HB3	2:G:2888:ARG:HG3	1.71	0.73
2:G:2816:MET:CE	2:G:2878:LEU:CD1	2.66	0.73
2:B:2816:MET:CE	2:B:2878:LEU:CD1	2.66	0.73
2:B:5013:MET:CE	2:B:5021:PHE:HB3	2.17	0.73
2:I:2816:MET:CE	2:I:2878:LEU:CD1	2.66	0.73
2:A:3989:VAL:HG23	2:A:4023:MET:HE2	0.73	0.73
2:G:2472:LEU:HD12	2:G:2473:PRO:CD	2.19	0.73
2:G:3309:SER:HB3	2:G:3348:ARG:NH1	2.02	0.73
2:I:3309:SER:HB2	2:I:3348:ARG:HH11	1.49	0.73
2:B:320:LYS:NZ	2:B:383:HIS:O	2.22	0.72
2:B:3416:VAL:HG21	2:B:3517:MET:HE2	1.71	0.72
2:I:2466:LEU:HD21	2:I:2506:LEU:HB2	1.70	0.72
2:A:2466:LEU:HD21	2:A:2506:LEU:HB2	1.69	0.72
2:I:2816:MET:CE	2:I:2878:LEU:HD12	2.17	0.72
2:I:3051:ARG:HH11	2:I:3052:HIS:HD2	0.73	0.72
2:G:978:THR:OG1	2:G:981:GLN:OE1	2.06	0.72
2:G:4948:GLU:HA	2:G:4951:LYS:CD	2.18	0.72
2:B:2472:LEU:HD12	2:B:2473:PRO:CD	2.19	0.72
2:I:2098:VAL:HG22	2:I:2101:MET:HE2	1.71	0.72
2:B:2739:PRO:HB3	2:B:2888:ARG:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2566:ALA:CA	2:I:2569:PHE:CE1	2.56	0.72
1:F:2:VAL:HG11	1:F:61:GLU:CG	2.15	0.72
2:A:276:TRP:O	2:A:328:LYS:NZ	2.20	0.72
2:A:2500:ALA:CA	2:A:2553:TYR:HE1	2.01	0.72
2:A:2527:LEU:HA	2:A:2530:MET:HE3	1.72	0.72
2:B:2466:LEU:HD21	2:B:2506:LEU:HB2	1.70	0.72
2:I:2309:SER:OG	2:I:2320:ASP:OD1	2.06	0.72
2:I:2739:PRO:HB3	2:I:2888:ARG:HG3	1.71	0.72
2:A:978:THR:OG1	2:A:981:GLN:OE1	2.06	0.72
2:A:4839:MET:HB3	2:G:4823:LEU:CD1	2.18	0.72
2:G:4092:ASP:CB	2:G:4095:LYS:NZ	2.47	0.72
2:I:3205:PHE:CE2	2:I:3276:MET:HE3	2.23	0.72
2:I:2527:LEU:HA	2:I:2530:MET:HE3	1.72	0.72
2:I:3281:LEU:HB3	2:I:3312:LEU:HD21	1.70	0.72
2:A:320:LYS:NZ	2:A:383:HIS:O	2.22	0.72
2:A:2309:SER:OG	2:A:2320:ASP:OD1	2.06	0.72
2:A:3051:ARG:HH11	2:A:3052:HIS:HD2	0.73	0.72
2:G:180:LEU:HB3	2:G:200:TRP:HE1	1.55	0.72
2:G:3842:LEU:HD13	2:G:3954:ALA:HB2	1.71	0.72
2:G:4634:GLU:HG3	2:G:4639:MET:HG2	1.70	0.72
2:B:180:LEU:HB3	2:B:200:TRP:HE1	1.55	0.72
2:B:3281:LEU:HB3	2:B:3312:LEU:HD21	1.70	0.72
2:I:2472:LEU:HD12	2:I:2473:PRO:CD	2.19	0.72
2:I:2579:VAL:O	2:I:2583:LEU:HG	1.90	0.72
2:I:3934:TYR:HA	2:I:3999:MET:HE2	1.72	0.72
2:B:2579:VAL:O	2:B:2583:LEU:HG	1.90	0.72
2:I:2500:ALA:CA	2:I:2553:TYR:HE1	2.01	0.72
2:G:2579:VAL:O	2:G:2583:LEU:HG	1.90	0.71
2:B:3309:SER:HB2	2:B:3348:ARG:HH11	1.49	0.71
2:I:4157:ASP:OD1	2:I:4159:ARG:CG	2.37	0.71
2:A:2579:VAL:O	2:A:2583:LEU:HG	1.90	0.71
2:G:4092:ASP:CA	2:G:4095:LYS:HZ2	1.85	0.71
2:B:3051:ARG:HH11	2:B:3052:HIS:HD2	0.73	0.71
2:B:4634:GLU:HG3	2:B:4639:MET:HG2	1.70	0.71
2:B:4638:TYR:HA	2:B:4641:PRO:HD2	1.73	0.71
2:I:180:LEU:HB3	2:I:200:TRP:HE1	1.55	0.71
2:I:3842:LEU:HD13	2:I:3954:ALA:HB2	1.71	0.71
2:B:3943:ILE:HD11	2:B:4002:LYS:HE3	1.72	0.71
2:A:4092:ASP:CA	2:A:4095:LYS:HZ2	1.90	0.71
2:A:4157:ASP:OD1	2:A:4159:ARG:CG	2.37	0.71
2:A:4638:TYR:HA	2:A:4641:PRO:HD2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2098:VAL:CA	2:B:2101:MET:HE2	2.20	0.71
2:I:320:LYS:NZ	2:I:383:HIS:O	2.22	0.71
2:A:2024:PRO:HD2	2:A:2027:ILE:HD12	1.73	0.71
2:A:2472:LEU:HD12	2:A:2473:PRO:CD	2.19	0.71
2:B:2906:VAL:HG23	2:B:2911:LEU:HD22	1.72	0.71
1:O:2:VAL:HG11	1:O:61:GLU:CG	2.15	0.71
2:G:2566:ALA:CA	2:G:2569:PHE:CE1	2.56	0.71
1:O:31:GLN:HA	1:O:98:ILE:CD1	2.21	0.71
2:I:2469:ILE:HG21	2:I:2502:MET:HE3	1.68	0.71
2:A:2566:ALA:CA	2:A:2569:PHE:CE1	2.56	0.70
2:B:2024:PRO:HD2	2:B:2027:ILE:HD12	1.73	0.70
2:I:2584:HIS:CD2	2:I:2625:ARG:HD2	2.26	0.70
2:I:4791:TYR:OH	2:I:4815:ASP:OD1	2.08	0.70
2:G:4791:TYR:OH	2:G:4815:ASP:OD1	2.08	0.70
2:B:3627:GLN:NE2	2:B:3859:VAL:O	2.24	0.70
2:I:2751:LEU:HG	2:I:2754:PHE:HB3	1.73	0.70
2:A:180:LEU:HB3	2:A:200:TRP:HE1	1.55	0.70
2:A:1993:ARG:CB	2:A:1994:ARG:HH21	2.04	0.70
2:A:3842:LEU:HD13	2:A:3954:ALA:HB2	1.71	0.70
2:G:3205:PHE:HE2	2:G:3276:MET:HE3	1.54	0.70
2:G:3627:GLN:NE2	2:G:3859:VAL:O	2.24	0.70
2:G:3934:TYR:HA	2:G:3999:MET:HE2	1.73	0.70
2:G:3943:ILE:HD11	2:G:4002:LYS:HE3	1.72	0.70
2:I:3627:GLN:NE2	2:I:3859:VAL:O	2.24	0.70
2:A:3141:THR:HG1	2:A:3193:CYS:HG	1.38	0.70
1:J:31:GLN:HA	1:J:98:ILE:CD1	2.21	0.70
2:G:4638:TYR:HA	2:G:4641:PRO:HD2	1.73	0.70
2:B:3227:ARG:HA	2:B:3232:LEU:HD13	1.74	0.70
2:I:3943:ILE:HD11	2:I:4002:LYS:HE3	1.72	0.70
2:A:29:LEU:O	2:A:31:GLU:OE1	2.10	0.70
2:A:2584:HIS:CD2	2:A:2625:ARG:HD2	2.26	0.70
1:J:58:GLY:HA2	1:J:61:GLU:OE2	1.92	0.70
1:O:58:GLY:HA2	1:O:61:GLU:OE2	1.92	0.70
2:G:2024:PRO:HD2	2:G:2027:ILE:HD12	1.73	0.70
2:B:1993:ARG:CB	2:B:1994:ARG:HH21	2.04	0.70
2:B:4157:ASP:OD1	2:B:4159:ARG:CG	2.37	0.70
2:I:2098:VAL:HA	2:I:2101:MET:CE	2.21	0.70
2:A:707:VAL:HG23	2:A:782:SER:HB3	1.73	0.70
2:A:3943:ILE:HD11	2:A:4002:LYS:HE3	1.72	0.70
2:A:4627:MET:HG3	2:A:4628:VAL:H	1.57	0.70
1:H:31:GLN:HA	1:H:98:ILE:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2751:LEU:HG	2:B:2754:PHE:HB3	1.74	0.70
2:I:29:LEU:O	2:I:31:GLU:OE1	2.10	0.70
2:A:2906:VAL:HG23	2:A:2911:LEU:HD22	1.72	0.70
2:A:4791:TYR:OH	2:A:4818:MET:CE	2.38	0.70
1:F:31:GLN:HA	1:F:98:ILE:CD1	2.21	0.70
2:A:3627:GLN:NE2	2:A:3859:VAL:O	2.24	0.70
2:G:29:LEU:O	2:G:31:GLU:OE1	2.10	0.70
2:G:4157:ASP:OD1	2:G:4159:ARG:CG	2.37	0.70
2:B:707:VAL:HG23	2:B:782:SER:HB3	1.73	0.70
2:I:3836:MET:HE3	2:I:3885:PHE:CE1	2.26	0.70
2:B:2584:HIS:CD2	2:B:2625:ARG:HD2	2.26	0.70
2:B:4791:TYR:OH	2:B:4815:ASP:OD1	2.08	0.70
2:I:3843:ASP:OD1	2:I:3844:LEU:N	2.25	0.70
2:I:4979:THR:HG21	3:I:5301:ATP:H2'	1.73	0.70
2:A:2098:VAL:HG22	2:A:2101:MET:HE2	1.74	0.70
2:A:3205:PHE:CE2	2:A:3276:MET:HE3	2.26	0.70
2:A:4791:TYR:OH	2:A:4815:ASP:OD1	2.08	0.70
2:G:2584:HIS:CD2	2:G:2625:ARG:HD2	2.26	0.70
2:B:4979:THR:HG21	3:B:5301:ATP:H2'	1.73	0.70
2:I:2788:HIS:NE2	2:I:2790:MET:HG3	2.06	0.70
2:I:2906:VAL:HG23	2:I:2911:LEU:HD22	1.72	0.70
2:A:3843:ASP:OD1	2:A:3844:LEU:N	2.25	0.69
2:G:3843:ASP:OD1	2:G:3844:LEU:N	2.25	0.69
2:G:4627:MET:HG3	2:G:4628:VAL:H	1.57	0.69
2:I:3227:ARG:HA	2:I:3232:LEU:HD13	1.74	0.69
2:A:3227:ARG:HA	2:A:3232:LEU:HD13	1.74	0.69
1:H:58:GLY:HA2	1:H:61:GLU:OE2	1.92	0.69
2:G:1170:MET:CE	2:G:1176:GLU:OE2	2.41	0.69
2:G:2906:VAL:HG23	2:G:2911:LEU:HD22	1.72	0.69
2:B:4627:MET:HG3	2:B:4628:VAL:H	1.57	0.69
2:B:29:LEU:O	2:B:31:GLU:OE1	2.10	0.69
2:B:886:ARG:HE	2:B:904:HIS:HB2	1.56	0.69
2:G:924:MET:HA	2:G:924:MET:CE	2.23	0.69
2:B:1170:MET:CE	2:B:1176:GLU:OE2	2.41	0.69
2:I:317:ARG:NH1	2:I:321:GLU:O	2.26	0.69
2:I:886:ARG:HE	2:I:904:HIS:HB2	1.56	0.69
2:I:924:MET:HA	2:I:924:MET:CE	2.23	0.69
2:I:2024:PRO:HD2	2:I:2027:ILE:HD12	1.73	0.69
2:I:4638:TYR:HA	2:I:4641:PRO:HD2	1.73	0.69
1:F:58:GLY:HA2	1:F:61:GLU:OE2	1.92	0.69
2:A:886:ARG:HE	2:A:904:HIS:HB2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:924:MET:HA	2:A:924:MET:CE	2.23	0.69
2:G:317:ARG:NH1	2:G:321:GLU:O	2.26	0.69
2:G:1993:ARG:CB	2:G:1994:ARG:HH21	2.04	0.69
2:G:2788:HIS:NE2	2:G:2790:MET:SD	2.65	0.69
2:I:1170:MET:CE	2:I:1176:GLU:OE2	2.40	0.69
2:A:2788:HIS:NE2	2:A:2790:MET:SD	2.65	0.69
2:G:707:VAL:HG23	2:G:782:SER:HB3	1.73	0.69
2:B:2098:VAL:HA	2:B:2101:MET:CE	2.21	0.69
2:B:3843:ASP:OD1	2:B:3844:LEU:N	2.25	0.69
2:B:4074:SER:O	2:B:4078:GLN:NE2	2.26	0.69
2:A:2452:ARG:NH2	2:B:144:GLU:OE1	2.25	0.69
2:A:2751:LEU:HG	2:A:2754:PHE:HB3	1.74	0.69
2:G:2760:GLU:OE2	2:G:2802:LYS:NZ	2.26	0.69
2:G:4074:SER:O	2:G:4078:GLN:NE2	2.26	0.69
2:B:2760:GLU:OE2	2:B:2802:LYS:NZ	2.26	0.69
2:I:1993:ARG:CB	2:I:1994:ARG:HH21	2.04	0.69
2:A:1170:MET:CE	2:A:1176:GLU:OE2	2.40	0.69
2:A:2760:GLU:OE2	2:A:2802:LYS:NZ	2.26	0.69
2:G:4979:THR:HG21	3:G:5301:ATP:H2'	1.73	0.69
2:G:3813:GLN:O	2:G:3899:PHE:CZ	2.40	0.69
2:I:4074:SER:O	2:I:4078:GLN:NE2	2.26	0.69
2:G:886:ARG:HE	2:G:904:HIS:HB2	1.56	0.68
2:I:2302:LEU:HD23	2:I:2363:CYS:HB3	1.75	0.68
2:I:2788:HIS:NE2	2:I:2790:MET:SD	2.65	0.68
2:A:4979:THR:HG21	3:A:5301:ATP:H2'	1.73	0.68
2:G:276:TRP:O	2:G:328:LYS:NZ	2.20	0.68
2:G:2098:VAL:HA	2:G:2101:MET:CE	2.21	0.68
2:G:4036:VAL:HB	2:G:5035:GLN:HG3	1.74	0.68
2:B:317:ARG:NH1	2:B:321:GLU:O	2.26	0.68
2:A:2470:ILE:HG22	2:A:2525:GLY:HA3	1.76	0.68
2:G:3227:ARG:HA	2:G:3232:LEU:HD13	1.74	0.68
2:B:2499:LYS:NZ	2:B:2529:ASP:OD2	2.27	0.68
2:B:2645:THR:OG1	2:B:2702:CYS:SG	2.51	0.68
2:B:2788:HIS:NE2	2:B:2790:MET:SD	2.65	0.68
2:B:2470:ILE:HG22	2:B:2525:GLY:HA3	1.76	0.68
2:I:707:VAL:HG23	2:I:782:SER:HB3	1.73	0.68
2:A:317:ARG:NH1	2:A:321:GLU:O	2.26	0.68
2:G:2645:THR:OG1	2:G:2702:CYS:SG	2.51	0.68
2:G:2751:LEU:HG	2:G:2754:PHE:HB3	1.74	0.68
2:B:924:MET:HA	2:B:924:MET:CE	2.23	0.68
2:B:2754:PHE:HA	2:B:2758:PHE:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:796:ARG:O	2:I:1619:ARG:NH2	2.27	0.68
2:I:2527:LEU:HA	2:I:2530:MET:CE	2.24	0.68
2:G:882:TRP:O	2:G:886:ARG:NH2	2.27	0.68
2:B:3836:MET:HE3	2:B:3885:PHE:CE1	2.25	0.68
2:B:4823:LEU:CD1	2:I:4839:MET:HB3	2.23	0.68
2:I:2754:PHE:HA	2:I:2758:PHE:HB2	1.76	0.68
2:A:882:TRP:O	2:A:886:ARG:NH2	2.27	0.68
2:A:2348:GLU:N	2:A:2348:GLU:OE2	2.26	0.68
2:G:2615:ARG:CZ	2:G:2618:MET:HE1	2.01	0.68
2:B:2302:LEU:HD23	2:B:2363:CYS:HB3	1.75	0.68
2:I:4627:MET:HG3	2:I:4628:VAL:H	1.57	0.68
2:A:2754:PHE:HA	2:A:2758:PHE:HB2	1.76	0.68
2:G:2754:PHE:HA	2:G:2758:PHE:HB2	1.76	0.68
2:G:2788:HIS:NE2	2:G:2790:MET:HG3	2.06	0.68
2:I:2645:THR:OG1	2:I:2702:CYS:SG	2.51	0.68
2:G:2470:ILE:HG22	2:G:2525:GLY:HA3	1.76	0.68
2:G:4791:TYR:OH	2:G:4818:MET:CE	2.38	0.68
2:I:4036:VAL:HB	2:I:5035:GLN:HG3	1.74	0.68
2:I:4876:CYS:HA	2:I:4882:CYS:HB2	1.76	0.68
2:A:4036:VAL:HB	2:A:5035:GLN:HG3	1.74	0.67
2:B:3416:VAL:HG22	2:B:3517:MET:HE1	1.76	0.67
2:A:2098:VAL:HA	2:A:2101:MET:CE	2.21	0.67
2:A:2527:LEU:HA	2:A:2530:MET:CE	2.24	0.67
1:O:19:GLY:CA	1:O:49:ARG:HH21	2.07	0.67
2:A:2998:PHE:HA	2:A:3002:LEU:HD12	1.76	0.67
2:G:2302:LEU:HD23	2:G:2363:CYS:HB3	1.75	0.67
2:G:4839:MET:HB3	2:I:4823:LEU:CD1	2.23	0.67
2:I:2615:ARG:HG2	2:I:2664:PHE:CE2	2.29	0.67
2:A:4074:SER:O	2:A:4078:GLN:NE2	2.26	0.67
2:G:2348:GLU:OE2	2:G:2348:GLU:N	2.26	0.67
2:G:2527:LEU:HA	2:G:2530:MET:CE	2.24	0.67
2:B:2527:LEU:HA	2:B:2530:MET:CE	2.24	0.67
2:I:2760:GLU:OE2	2:I:2802:LYS:NZ	2.26	0.67
2:B:2452:ARG:NH2	2:I:144:GLU:OE1	2.28	0.67
2:B:2615:ARG:HG2	2:B:2664:PHE:CE2	2.30	0.67
2:B:2998:PHE:HA	2:B:3002:LEU:HD12	1.76	0.67
2:B:4036:VAL:HB	2:B:5035:GLN:HG3	1.75	0.67
2:I:4791:TYR:OH	2:I:4818:MET:CE	2.38	0.67
2:A:24:CYS:SG	2:A:200:TRP:CZ3	2.88	0.67
2:G:4876:CYS:HA	2:G:4882:CYS:HB2	1.76	0.67
2:I:2348:GLU:N	2:I:2348:GLU:OE2	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2470:ILE:HG22	2:I:2525:GLY:HA3	1.76	0.67
2:A:2302:LEU:HD23	2:A:2363:CYS:HB3	1.75	0.67
2:A:2499:LYS:NZ	2:A:2529:ASP:OD2	2.27	0.67
2:G:796:ARG:O	2:G:1619:ARG:NH2	2.27	0.67
2:I:2750:LYS:HD3	2:I:2823:ILE:HA	1.77	0.67
2:A:144:GLU:OE1	2:G:2452:ARG:NH2	2.28	0.67
2:I:4189:ARG:NH1	2:I:4189:ARG:HB2	2.10	0.67
2:A:796:ARG:O	2:A:1619:ARG:NH2	2.27	0.67
2:A:2788:HIS:NE2	2:A:2790:MET:HG3	2.06	0.67
2:G:24:CYS:SG	2:G:200:TRP:CZ3	2.88	0.67
2:G:2098:VAL:HG22	2:G:2101:MET:HE2	1.74	0.67
2:G:2615:ARG:HG2	2:G:2664:PHE:CE2	2.29	0.67
2:B:2499:LYS:O	2:B:2502:MET:HG2	1.95	0.67
2:B:2788:HIS:NE2	2:B:2790:MET:HG3	2.06	0.67
2:B:4791:TYR:OH	2:B:4818:MET:CE	2.38	0.67
2:A:2615:ARG:HG2	2:A:2664:PHE:CE2	2.30	0.67
2:G:2499:LYS:NZ	2:G:2529:ASP:OD2	2.27	0.67
2:I:868:GLU:HA	2:I:871:ARG:HB2	1.77	0.67
2:I:882:TRP:O	2:I:886:ARG:NH2	2.27	0.67
2:I:2499:LYS:O	2:I:2502:MET:HG2	1.95	0.67
2:A:2499:LYS:O	2:A:2502:MET:HG2	1.95	0.66
2:G:2778:GLY:HA3	2:G:2788:HIS:H	1.60	0.66
2:B:868:GLU:HA	2:B:871:ARG:HB2	1.77	0.66
2:B:882:TRP:O	2:B:886:ARG:NH2	2.27	0.66
2:B:2750:LYS:HD3	2:B:2823:ILE:HA	1.77	0.66
2:I:2499:LYS:NZ	2:I:2529:ASP:OD2	2.27	0.66
2:A:2713:ASP:OD1	2:A:3016:TYR:OH	2.12	0.66
2:G:2527:LEU:HA	2:G:2530:MET:HE3	1.77	0.66
2:B:24:CYS:SG	2:B:200:TRP:CZ3	2.88	0.66
2:I:69:LEU:HD21	2:I:202:MET:HE1	1.77	0.66
2:G:868:GLU:HA	2:G:871:ARG:HB2	1.77	0.66
2:G:939:VAL:HB	2:G:1051:TYR:HB3	1.78	0.66
2:B:4189:ARG:NH1	2:B:4189:ARG:HB2	2.10	0.66
2:I:939:VAL:HB	2:I:1051:TYR:HB3	1.78	0.66
2:I:3817:LEU:HB2	2:I:3899:PHE:CE1	2.31	0.66
2:G:144:GLU:OE1	2:I:2452:ARG:NH2	2.28	0.66
2:G:4189:ARG:HB2	2:G:4189:ARG:NH1	2.10	0.66
2:B:4876:CYS:HA	2:B:4882:CYS:HB2	1.76	0.66
2:I:2998:PHE:HA	2:I:3002:LEU:HD12	1.76	0.66
2:G:2499:LYS:O	2:G:2502:MET:HG2	1.95	0.66
2:I:276:TRP:O	2:I:328:LYS:NZ	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2778:GLY:HA3	2:I:2788:HIS:H	1.60	0.66
2:A:4189:ARG:NH1	2:A:4189:ARG:HB2	2.10	0.66
2:G:622:THR:HG23	2:G:626:LEU:HD12	1.78	0.66
2:B:3813:GLN:O	2:B:3899:PHE:CZ	2.40	0.66
2:I:622:THR:HG23	2:I:626:LEU:HD12	1.78	0.66
2:I:3230:LEU:HB2	2:I:3232:LEU:HD11	1.78	0.66
2:A:868:GLU:HA	2:A:871:ARG:HB2	1.77	0.66
1:F:19:GLY:CA	1:F:49:ARG:HH21	2.07	0.66
2:A:69:LEU:HD21	2:A:202:MET:HE1	1.77	0.66
2:A:177:GLU:O	2:G:2359:ARG:NH2	2.28	0.66
2:A:3230:LEU:HB2	2:A:3232:LEU:HD11	1.78	0.66
2:A:3813:GLN:O	2:A:3899:PHE:CZ	2.40	0.66
1:O:2:VAL:CG1	1:O:61:GLU:CG	2.74	0.66
2:G:3230:LEU:HB2	2:G:3232:LEU:HD11	1.78	0.66
2:B:69:LEU:HD21	2:B:202:MET:HE1	1.77	0.66
2:B:939:VAL:HB	2:B:1051:TYR:HB3	1.78	0.66
2:A:2750:LYS:HD3	2:A:2823:ILE:HA	1.77	0.66
2:G:2998:PHE:HA	2:G:3002:LEU:HD12	1.76	0.66
2:I:24:CYS:SG	2:I:200:TRP:CZ3	2.88	0.66
2:I:3813:GLN:O	2:I:3899:PHE:CZ	2.40	0.66
2:A:3312:LEU:HD12	2:A:3348:ARG:HG2	1.78	0.66
1:H:2:VAL:CG1	1:H:61:GLU:CG	2.74	0.66
2:G:2750:LYS:HD3	2:G:2823:ILE:HA	1.77	0.66
2:G:3817:LEU:HB2	2:G:3899:PHE:CE1	2.31	0.66
2:G:3847:PHE:O	2:G:3851:ASN:ND2	2.29	0.66
2:B:1948:ASP:OD2	2:B:2126:ARG:NH2	2.22	0.66
2:A:622:THR:HG23	2:A:626:LEU:HD12	1.78	0.65
2:A:3551:GLU:HA	2:A:3554:GLN:OE1	1.97	0.65
2:A:4876:CYS:HA	2:A:4882:CYS:HB2	1.76	0.65
2:G:2713:ASP:OD1	2:G:3016:TYR:OH	2.12	0.65
2:B:2348:GLU:N	2:B:2348:GLU:OE2	2.26	0.65
2:I:2098:VAL:CA	2:I:2101:MET:HE2	2.21	0.65
2:B:3817:LEU:HB2	2:B:3899:PHE:CE1	2.31	0.65
2:A:939:VAL:HB	2:A:1051:TYR:HB3	1.78	0.65
2:A:3817:LEU:HB2	2:A:3899:PHE:CE1	2.31	0.65
2:A:3847:PHE:O	2:A:3851:ASN:ND2	2.30	0.65
2:A:3989:VAL:CG2	2:A:4023:MET:HE1	2.17	0.65
2:B:2753:SER:O	2:B:2757:LYS:N	2.29	0.65
2:I:2470:ILE:CD1	2:I:2502:MET:HG3	2.27	0.65
2:I:3551:GLU:HA	2:I:3554:GLN:OE1	1.97	0.65
1:F:2:VAL:CG1	1:F:61:GLU:CG	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2778:GLY:HA3	2:A:2788:HIS:H	1.60	0.65
2:G:3312:LEU:HD12	2:G:3348:ARG:HG2	1.78	0.65
2:I:2469:ILE:CG2	2:I:2502:MET:HE1	2.17	0.65
2:G:1115:LEU:HD23	2:G:1123:VAL:HG11	1.79	0.65
2:G:2470:ILE:CD1	2:G:2502:MET:HG3	2.27	0.65
2:B:2778:GLY:HA3	2:B:2788:HIS:H	1.60	0.65
2:B:3551:GLU:HA	2:B:3554:GLN:OE1	1.97	0.65
2:B:3847:PHE:O	2:B:3851:ASN:ND2	2.30	0.65
2:A:663:TYR:OH	2:A:665:GLU:OE2	2.13	0.65
2:A:1115:LEU:HD23	2:A:1123:VAL:HG11	1.79	0.65
2:A:2470:ILE:CD1	2:A:2502:MET:HG3	2.27	0.65
2:A:3812:VAL:O	2:A:3816:MET:HG3	1.97	0.65
2:G:924:MET:HA	2:G:924:MET:HE1	1.79	0.65
2:G:2753:SER:O	2:G:2757:LYS:N	2.29	0.65
2:B:2470:ILE:CD1	2:B:2502:MET:HG3	2.27	0.65
2:G:1170:MET:HE3	2:G:1176:GLU:OE2	1.96	0.65
2:G:4677:LEU:HD12	2:G:4677:LEU:O	1.97	0.65
2:B:796:ARG:O	2:B:1619:ARG:NH2	2.27	0.65
2:I:317:ARG:NH2	2:I:349:GLN:OE1	2.29	0.65
2:I:981:GLN:HE21	2:I:1047:LEU:HD21	1.62	0.65
2:I:2627:VAL:HG12	2:I:2678:LEU:HD13	1.79	0.65
2:G:3812:VAL:O	2:G:3816:MET:HG3	1.97	0.65
2:I:4677:LEU:HD12	2:I:4677:LEU:O	1.97	0.65
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	1.79	0.65
2:B:3312:LEU:HD12	2:B:3348:ARG:HG2	1.78	0.65
2:B:3812:VAL:O	2:B:3816:MET:HG3	1.97	0.65
2:B:4878:ASP:OD1	2:B:4879:MET:N	2.30	0.65
2:I:1115:LEU:HD23	2:I:1123:VAL:HG11	1.79	0.65
2:I:1272:LEU:HD22	2:I:1289:LEU:HD11	1.79	0.65
2:I:3812:VAL:O	2:I:3816:MET:HG3	1.97	0.65
2:I:4878:ASP:OD1	2:I:4879:MET:N	2.30	0.65
1:J:2:VAL:CG1	1:J:61:GLU:CG	2.74	0.64
2:G:4045:VAL:HG11	2:G:4159:ARG:HE	1.61	0.64
2:B:622:THR:HG23	2:B:626:LEU:HD12	1.78	0.64
2:B:1115:LEU:HD23	2:B:1123:VAL:HG11	1.79	0.64
2:I:2595:LEU:CD2	2:I:2599:GLN:NE2	2.60	0.64
2:G:2627:VAL:HG12	2:G:2678:LEU:HD13	1.79	0.64
2:B:317:ARG:NH2	2:B:349:GLN:OE1	2.29	0.64
2:B:3230:LEU:HB2	2:B:3232:LEU:HD11	1.78	0.64
1:H:19:GLY:CA	1:H:49:ARG:HH21	2.07	0.64
2:B:3817:LEU:HB2	2:B:3899:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1420:ASN:OD1	2:I:1421:ARG:N	2.30	0.64
2:I:3312:LEU:HD12	2:I:3348:ARG:HG2	1.78	0.64
2:A:2595:LEU:CD2	2:A:2599:GLN:NE2	2.60	0.64
2:B:2962:GLN:O	2:B:2966:TRP:HE3	1.81	0.64
2:I:3817:LEU:HB2	2:I:3899:PHE:CZ	2.32	0.64
2:A:2098:VAL:CA	2:A:2101:MET:HE2	2.25	0.64
2:B:1420:ASN:OD1	2:B:1421:ARG:N	2.30	0.64
2:B:2595:LEU:CD2	2:B:2599:GLN:NE2	2.60	0.64
2:B:3173:TYR:HE1	2:B:3244:PRO:HD3	1.63	0.64
2:I:3847:PHE:O	2:I:3851:ASN:ND2	2.30	0.64
2:A:317:ARG:NH2	2:A:349:GLN:OE1	2.29	0.64
2:A:2962:GLN:O	2:A:2966:TRP:HE3	1.81	0.64
2:A:3817:LEU:HB2	2:A:3899:PHE:CZ	2.32	0.64
2:G:3551:GLU:HA	2:G:3554:GLN:OE1	1.97	0.64
2:B:2627:VAL:HG12	2:B:2678:LEU:HD13	1.79	0.64
2:I:2962:GLN:O	2:I:2966:TRP:HE3	1.81	0.64
2:I:3327:LEU:CD1	2:I:3368:ARG:HH21	2.04	0.64
2:I:4045:VAL:HG11	2:I:4159:ARG:HE	1.61	0.64
2:G:69:LEU:HD21	2:G:202:MET:HE1	1.77	0.64
2:G:1420:ASN:OD1	2:G:1421:ARG:N	2.30	0.64
2:G:3817:LEU:HB2	2:G:3899:PHE:CZ	2.32	0.64
2:G:4878:ASP:OD1	2:G:4879:MET:N	2.30	0.64
2:A:1948:ASP:OD2	2:A:2126:ARG:NH2	2.22	0.64
2:A:3270:ILE:HA	2:A:3274:LEU:CD1	2.28	0.64
2:G:2595:LEU:CD2	2:G:2599:GLN:NE2	2.60	0.64
2:B:4677:LEU:HD12	2:B:4677:LEU:O	1.97	0.64
2:B:4796:MET:HE3	2:B:4800:LEU:HG	1.80	0.64
2:I:4056:GLU:HG2	2:I:4166:LEU:HD22	1.80	0.64
2:A:2753:SER:O	2:A:2757:LYS:N	2.29	0.64
2:A:2754:PHE:CE1	2:A:2813:LEU:HB2	2.33	0.64
2:A:3205:PHE:CE2	2:A:3276:MET:HE2	2.24	0.64
2:G:2754:PHE:CE1	2:G:2813:LEU:HB2	2.33	0.64
2:B:4056:GLU:HG2	2:B:4166:LEU:HD22	1.80	0.64
2:I:3270:ILE:HA	2:I:3274:LEU:CD1	2.28	0.64
2:I:3416:VAL:HG22	2:I:3517:MET:HE1	1.80	0.64
2:A:883:ALA:HB1	2:A:905:PRO:HA	1.80	0.64
2:A:2627:VAL:HG12	2:A:2678:LEU:HD13	1.79	0.64
2:G:3836:MET:HE3	2:G:3885:PHE:CE1	2.32	0.64
2:A:981:GLN:HE21	2:A:1047:LEU:HD21	1.62	0.63
2:A:3173:TYR:HE1	2:A:3244:PRO:HD3	1.63	0.63
2:G:1948:ASP:OD2	2:G:2126:ARG:NH2	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2754:PHE:CE1	2:B:2813:LEU:HB2	2.33	0.63
2:B:4045:VAL:HG11	2:B:4159:ARG:HE	1.61	0.63
2:B:4563:ARG:NH2	2:B:4815:ASP:OD1	2.31	0.63
2:A:1272:LEU:HD22	2:A:1289:LEU:HD11	1.79	0.63
2:A:4563:ARG:NH2	2:A:4815:ASP:OD1	2.31	0.63
2:A:4878:ASP:OD1	2:A:4879:MET:N	2.30	0.63
2:G:981:GLN:HE21	2:G:1047:LEU:HD21	1.62	0.63
2:G:2962:GLN:O	2:G:2966:TRP:HE3	1.81	0.63
2:G:3204:ALA:HB1	2:G:3207:GLU:HB2	1.81	0.63
2:G:4563:ARG:NH2	2:G:4815:ASP:OD1	2.31	0.63
2:B:3270:ILE:HA	2:B:3274:LEU:CD1	2.28	0.63
2:I:663:TYR:OH	2:I:665:GLU:OE2	2.14	0.63
2:I:2754:PHE:CE1	2:I:2813:LEU:HB2	2.33	0.63
2:I:3204:ALA:HB1	2:I:3207:GLU:HB2	1.81	0.63
2:G:4092:ASP:CG	2:G:4095:LYS:HZ3	2.00	0.63
2:I:3173:TYR:HE1	2:I:3244:PRO:HD3	1.63	0.63
2:A:1420:ASN:OD1	2:A:1421:ARG:N	2.30	0.63
2:A:4677:LEU:HD12	2:A:4677:LEU:O	1.97	0.63
2:A:4791:TYR:HE1	2:A:4818:MET:HE3	1.50	0.63
2:G:2697:ARG:HA	2:G:2700:MET:HE2	1.80	0.63
2:B:2469:ILE:CB	2:B:2502:MET:SD	2.87	0.63
2:G:883:ALA:HB1	2:G:905:PRO:HA	1.80	0.63
2:I:4563:ARG:NH2	2:I:4815:ASP:OD1	2.31	0.63
2:G:317:ARG:NH2	2:G:349:GLN:OE1	2.29	0.63
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	1.79	0.63
2:G:2155:LEU:HD11	2:G:2198:MET:CE	2.28	0.63
2:G:3270:ILE:HA	2:G:3274:LEU:CD1	2.28	0.63
2:G:3416:VAL:HG22	2:G:3517:MET:HE1	1.79	0.63
2:B:981:GLN:HE21	2:B:1047:LEU:HD21	1.62	0.63
2:B:4092:ASP:CA	2:B:4095:LYS:HZ2	1.98	0.63
2:I:3111:ARG:NH1	2:I:3174:SER:O	2.32	0.63
2:A:1974:ARG:NH2	2:A:3642:TYR:HB2	2.14	0.63
2:G:248:GLU:HG2	2:G:252:VAL:HG11	1.81	0.63
2:B:883:ALA:HB1	2:B:905:PRO:HA	1.80	0.63
2:A:3944:GLU:OE1	2:A:3946:GLN:HG3	1.99	0.63
2:I:248:GLU:HG2	2:I:252:VAL:HG11	1.81	0.63
2:I:2500:ALA:HB2	2:I:2553:TYR:CD1	2.34	0.63
2:A:2500:ALA:HB2	2:A:2553:TYR:CD1	2.34	0.63
2:A:3416:VAL:HG22	2:A:3517:MET:HE1	1.79	0.63
2:G:2500:ALA:HB2	2:G:2553:TYR:CD1	2.34	0.63
2:G:3173:TYR:HE1	2:G:3244:PRO:HD3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4056:GLU:HG2	2:G:4166:LEU:HD22	1.80	0.63
2:G:4180:ARG:NH2	2:G:4981:GLU:OE1	2.32	0.63
2:I:2469:ILE:CB	2:I:2502:MET:SD	2.87	0.63
2:A:2515:GLN:HG2	2:A:2519:LEU:CD1	2.28	0.62
2:A:3842:LEU:HD21	2:A:3933:PHE:CD2	2.34	0.62
2:G:663:TYR:OH	2:G:665:GLU:OE2	2.13	0.62
2:B:3541:ALA:HA	2:B:3604:TYR:OH	1.99	0.62
2:I:2753:SER:O	2:I:2757:LYS:N	2.29	0.62
2:B:2515:GLN:HG2	2:B:2519:LEU:CD1	2.29	0.62
2:I:883:ALA:HB1	2:I:905:PRO:HA	1.80	0.62
2:I:2515:GLN:HG2	2:I:2519:LEU:CD1	2.28	0.62
2:I:3413:ILE:HD12	2:I:3469:PHE:O	1.99	0.62
2:A:2469:ILE:CB	2:A:2502:MET:SD	2.87	0.62
2:A:3541:ALA:HA	2:A:3604:TYR:CZ	2.35	0.62
2:A:4056:GLU:HG2	2:A:4166:LEU:HD22	1.80	0.62
2:G:1974:ARG:NH2	2:G:3642:TYR:HB2	2.14	0.62
2:G:2515:GLN:HG2	2:G:2519:LEU:CD1	2.28	0.62
2:G:3842:LEU:HD21	2:G:3933:PHE:CD2	2.34	0.62
2:B:3204:ALA:HB1	2:B:3207:GLU:HB2	1.80	0.62
2:B:5035:GLN:HG2	2:B:5036:LEU:N	2.15	0.62
2:I:2638:LYS:HE3	2:I:2698:MET:HG3	1.82	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:CZ	2.34	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:OH	1.99	0.62
2:A:3204:ALA:HB1	2:A:3207:GLU:HB2	1.81	0.62
2:G:3944:GLU:OE1	2:G:3946:GLN:HG3	1.99	0.62
2:G:4677:LEU:HA	2:G:4680:LYS:HE2	1.82	0.62
2:B:3413:ILE:HD12	2:B:3469:PHE:O	1.99	0.62
2:I:3187:ARG:HH12	2:I:3267:PRO:HB2	1.64	0.62
2:A:2155:LEU:HD11	2:A:2198:MET:CE	2.28	0.62
2:A:2440:MET:O	2:A:2444:GLN:NE2	2.33	0.62
2:A:4180:ARG:NH2	2:A:4981:GLU:OE1	2.32	0.62
2:A:4189:ARG:NH1	2:A:4189:ARG:CB	2.63	0.62
1:J:19:GLY:CA	1:J:49:ARG:HH21	2.07	0.62
2:G:2638:LYS:HE3	2:G:2698:MET:HG3	1.82	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:OH	1.99	0.62
2:G:4796:MET:HE2	2:G:4800:LEU:HG	1.80	0.62
2:B:2531:ARG:NH2	2:B:2585:THR:OG1	2.33	0.62
2:I:2155:LEU:HD11	2:I:2198:MET:CE	2.29	0.62
2:B:1972:ASN:HD21	2:B:2023:LEU:HD23	1.65	0.62
2:B:3842:LEU:HD21	2:B:3933:PHE:CD2	2.34	0.62
2:I:1170:MET:HE3	2:I:1176:GLU:OE2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1974:ARG:NH2	2:I:3642:TYR:HB2	2.14	0.62
2:I:3996:PHE:O	2:I:4000:MET:HG3	2.00	0.62
2:I:5035:GLN:HG2	2:I:5036:LEU:N	2.14	0.62
2:A:248:GLU:HG2	2:A:252:VAL:HG11	1.81	0.62
2:A:3106:MET:O	2:A:3110:LEU:HG	2.00	0.62
2:G:2268:GLN:HG3	2:G:2269:GLY:H	1.64	0.62
2:G:3050:VAL:O	2:G:3050:VAL:HG12	2.00	0.62
2:G:5035:GLN:HG2	2:G:5036:LEU:N	2.15	0.62
2:B:1974:ARG:NH2	2:B:3642:TYR:HB2	2.14	0.62
2:B:2500:ALA:HB2	2:B:2553:TYR:CD1	2.34	0.62
2:I:158:SER:N	2:I:161:GLU:OE2	2.29	0.62
2:A:4677:LEU:HA	2:A:4680:LYS:HE2	1.82	0.62
2:G:2469:ILE:CB	2:G:2502:MET:SD	2.87	0.62
2:G:3106:MET:O	2:G:3110:LEU:HG	2.00	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:CZ	2.34	0.62
2:G:4189:ARG:NH1	2:G:4189:ARG:CB	2.63	0.62
2:I:1972:ASN:HD21	2:I:2023:LEU:HD23	1.65	0.62
2:I:3944:GLU:OE1	2:I:3946:GLN:HG3	1.99	0.62
2:I:4189:ARG:NH1	2:I:4189:ARG:CB	2.63	0.62
2:A:2651:CYS:HA	2:A:2661:TRP:CZ2	2.35	0.62
2:G:3068:LEU:HG	2:G:3139:VAL:CG2	2.28	0.62
2:B:2440:MET:O	2:B:2444:GLN:NE2	2.33	0.62
2:B:3106:MET:O	2:B:3110:LEU:HG	2.00	0.62
2:I:3320:LEU:CD2	2:I:3357:HIS:HB3	2.21	0.62
2:A:2247:GLN:NE2	2:A:2279:SER:O	2.33	0.62
2:A:2531:ARG:NH2	2:A:2585:THR:OG1	2.33	0.62
2:A:2638:LYS:HE3	2:A:2698:MET:HG3	1.82	0.62
2:G:2651:CYS:HA	2:G:2661:TRP:CZ2	2.35	0.62
2:B:3541:ALA:HA	2:B:3604:TYR:CZ	2.35	0.62
2:B:3996:PHE:O	2:B:4000:MET:HG3	2.00	0.62
2:B:4650:HIS:CE1	2:B:4812:HIS:ND1	2.68	0.62
2:I:551:LEU:HB3	2:I:589:LEU:HD11	1.82	0.62
2:I:2268:GLN:HG3	2:I:2269:GLY:H	1.64	0.62
2:I:2713:ASP:OD1	2:I:3016:TYR:OH	2.12	0.62
2:A:2268:GLN:HG3	2:A:2269:GLY:H	1.64	0.61
2:B:3934:TYR:HA	2:B:3999:MET:HE1	1.80	0.61
2:B:4180:ARG:NH2	2:B:4981:GLU:OE1	2.32	0.61
2:A:2585:THR:O	2:A:2588:ARG:HG2	2.00	0.61
1:H:31:GLN:HE21	1:H:96:THR:HB	1.65	0.61
2:G:2440:MET:O	2:G:2444:GLN:NE2	2.33	0.61
2:G:4945:ASP:O	2:G:4949:GLN:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2268:GLN:HG3	2:B:2269:GLY:H	1.64	0.61
2:B:2563:THR:OG1	2:B:2606:CYS:SG	2.58	0.61
2:B:3944:GLU:OE1	2:B:3946:GLN:HG3	1.99	0.61
2:B:4189:ARG:NH1	2:B:4189:ARG:CB	2.63	0.61
2:I:4180:ARG:NH2	2:I:4981:GLU:OE1	2.32	0.61
2:I:4948:GLU:HA	2:I:4951:LYS:HD3	1.82	0.61
2:A:3521:GLY:O	2:A:3524:MET:HG2	2.01	0.61
2:G:2531:ARG:NH2	2:G:2585:THR:OG1	2.33	0.61
2:G:2585:THR:O	2:G:2588:ARG:HG2	2.00	0.61
2:B:3037:GLU:HG2	2:B:3085:PRO:HD2	1.82	0.61
2:B:4945:ASP:O	2:B:4949:GLN:HG2	2.00	0.61
2:I:3842:LEU:HD21	2:I:3933:PHE:CD2	2.34	0.61
2:A:3111:ARG:NH1	2:A:3174:SER:O	2.32	0.61
2:A:4161:ARG:HA	2:A:4164:LEU:HD12	1.82	0.61
2:G:265:LEU:HD22	2:G:279:PRO:HB2	1.82	0.61
2:G:3187:ARG:HH12	2:G:3267:PRO:HB2	1.64	0.61
2:I:13:PHE:HB2	2:I:15:ARG:HH12	1.65	0.61
2:I:2585:THR:O	2:I:2588:ARG:HG2	2.00	0.61
2:A:2470:ILE:HD11	2:A:2502:MET:HG3	1.83	0.61
2:G:3327:LEU:CD1	2:G:3368:ARG:HH21	2.03	0.61
2:G:4189:ARG:CB	2:G:4189:ARG:HH11	2.14	0.61
2:B:2638:LYS:HE3	2:B:2698:MET:HG3	1.82	0.61
2:B:4161:ARG:HA	2:B:4164:LEU:HD12	1.82	0.61
2:I:2651:CYS:HA	2:I:2661:TRP:CZ2	2.35	0.61
2:I:3037:GLU:HG2	2:I:3085:PRO:HD2	1.82	0.61
2:I:4677:LEU:HA	2:I:4680:LYS:HE2	1.82	0.61
2:A:2359:ARG:NH2	2:B:177:GLU:O	2.30	0.61
2:A:5035:GLN:HG2	2:A:5036:LEU:N	2.15	0.61
2:G:3111:ARG:NH1	2:G:3174:SER:O	2.32	0.61
2:A:3230:LEU:HB2	2:A:3232:LEU:CD1	2.31	0.61
2:A:3318:ASN:O	2:A:3322:ILE:HG12	2.00	0.61
2:A:4045:VAL:HG11	2:A:4159:ARG:HE	1.61	0.61
2:G:2563:THR:OG1	2:G:2606:CYS:SG	2.58	0.61
2:G:4650:HIS:CE1	2:G:4812:HIS:ND1	2.68	0.61
2:G:4948:GLU:HA	2:G:4951:LYS:HD3	1.82	0.61
2:B:248:GLU:HG2	2:B:252:VAL:HG11	1.81	0.61
2:B:2470:ILE:HD11	2:B:2502:MET:HG3	1.83	0.61
2:B:2585:THR:O	2:B:2588:ARG:HG2	2.00	0.61
2:B:3111:ARG:NH1	2:B:3174:SER:O	2.32	0.61
2:B:3532:LEU:HD22	2:B:3596:VAL:HG21	1.83	0.61
2:I:265:LEU:HD22	2:I:279:PRO:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2247:GLN:NE2	2:I:2279:SER:O	2.33	0.61
2:I:3532:LEU:HD22	2:I:3596:VAL:HG21	1.83	0.61
1:J:31:GLN:HE21	1:J:96:THR:HB	1.66	0.61
2:B:3187:ARG:HH12	2:B:3267:PRO:HB2	1.64	0.61
2:I:2440:MET:O	2:I:2444:GLN:NE2	2.33	0.61
2:I:3106:MET:O	2:I:3110:LEU:HG	2.00	0.61
2:I:4945:ASP:O	2:I:4949:GLN:HG2	2.00	0.61
1:F:16:PRO:HB3	1:F:106:LEU:HD21	1.83	0.61
2:A:3541:ALA:HA	2:A:3604:TYR:OH	1.99	0.61
2:A:4945:ASP:O	2:A:4949:GLN:HG2	2.00	0.61
2:G:2247:GLN:NE2	2:G:2279:SER:O	2.33	0.61
2:G:3521:GLY:O	2:G:3524:MET:HG2	2.01	0.61
2:B:551:LEU:HB3	2:B:589:LEU:HD11	1.82	0.61
2:B:2359:ARG:NH2	2:I:177:GLU:O	2.30	0.61
2:B:3205:PHE:CE2	2:B:3276:MET:HE2	2.27	0.61
2:B:4189:ARG:CB	2:B:4189:ARG:HH11	2.14	0.61
2:I:2470:ILE:HD11	2:I:2502:MET:HG3	1.83	0.61
2:I:2563:THR:OG1	2:I:2606:CYS:SG	2.58	0.61
2:A:1972:ASN:HD21	2:A:2023:LEU:HD23	1.65	0.61
2:A:3050:VAL:O	2:A:3050:VAL:HG12	2.00	0.61
2:A:3157:ILE:HA	2:A:3161:VAL:HG23	1.83	0.61
2:G:1972:ASN:HD21	2:G:2023:LEU:HD23	1.65	0.61
2:G:2624:ARG:HH21	2:G:2911:LEU:HA	1.65	0.61
2:B:2651:CYS:HA	2:B:2661:TRP:CZ2	2.35	0.61
2:B:3050:VAL:O	2:B:3050:VAL:HG12	2.00	0.61
2:A:1252:HIS:O	2:A:1275:ARG:NH1	2.34	0.60
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.36	0.60
2:G:2311:PRO:HA	2:G:2314:LEU:HD12	1.83	0.60
2:G:3413:ILE:HD12	2:G:3469:PHE:O	1.99	0.60
2:B:4948:GLU:HA	2:B:4951:LYS:HD3	1.82	0.60
2:I:2531:ARG:NH2	2:I:2585:THR:OG1	2.33	0.60
2:I:3050:VAL:HG22	2:I:3057:PHE:CE2	2.34	0.60
2:I:3080:VAL:HG12	2:I:3081:MET:HE2	1.83	0.60
2:A:2563:THR:OG1	2:A:2606:CYS:SG	2.58	0.60
2:G:2098:VAL:CA	2:G:2101:MET:HE2	2.25	0.60
2:G:2470:ILE:HD11	2:G:2502:MET:HG3	1.83	0.60
2:G:3996:PHE:O	2:G:4000:MET:HG3	2.00	0.60
2:B:4689:THR:HG22	2:B:4732:PHE:CZ	2.36	0.60
2:A:2311:PRO:HA	2:A:2314:LEU:HD12	1.83	0.60
2:A:2615:ARG:NH2	2:A:2618:MET:HE2	1.95	0.60
2:A:3037:GLU:HG2	2:A:3085:PRO:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4092:ASP:CG	2:A:4095:LYS:HZ3	2.04	0.60
2:A:4650:HIS:CE1	2:A:4812:HIS:ND1	2.68	0.60
2:G:227:MET:CE	2:G:389:PHE:HD2	2.15	0.60
2:G:2472:LEU:HD23	2:G:2494:PHE:CD2	2.36	0.60
2:G:2615:ARG:NH2	2:G:2618:MET:HE2	1.88	0.60
2:B:13:PHE:HB2	2:B:15:ARG:HH12	1.65	0.60
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.37	0.60
2:B:2624:ARG:HH21	2:B:2911:LEU:HA	1.65	0.60
2:B:2697:ARG:HA	2:B:2700:MET:HE2	1.83	0.60
2:B:4677:LEU:HA	2:B:4680:LYS:HE2	1.82	0.60
2:B:4933:GLN:O	2:B:4937:ILE:HG12	2.01	0.60
2:I:1252:HIS:O	2:I:1275:ARG:NH1	2.34	0.60
2:I:3150:HIS:HB2	2:I:3152:PHE:CD1	2.35	0.60
2:A:2472:LEU:HD23	2:A:2494:PHE:CD2	2.36	0.60
2:A:3150:HIS:HB2	2:A:3152:PHE:CD1	2.35	0.60
2:A:4948:GLU:HA	2:A:4951:LYS:HD3	1.82	0.60
2:G:551:LEU:HB3	2:G:589:LEU:HD11	1.82	0.60
2:G:1252:HIS:O	2:G:1275:ARG:NH1	2.34	0.60
2:G:3230:LEU:HB2	2:G:3232:LEU:CD1	2.31	0.60
2:B:3230:LEU:HB2	2:B:3232:LEU:CD1	2.31	0.60
2:I:3318:ASN:O	2:I:3322:ILE:HG12	2.00	0.60
2:A:13:PHE:HB2	2:A:15:ARG:HH12	1.65	0.60
2:A:3996:PHE:O	2:A:4000:MET:HG3	2.00	0.60
2:G:13:PHE:HB2	2:G:15:ARG:HH12	1.65	0.60
2:G:3157:ILE:HA	2:G:3161:VAL:HG23	1.83	0.60
2:G:4161:ARG:HA	2:G:4164:LEU:HD12	1.82	0.60
2:B:1252:HIS:O	2:B:1275:ARG:NH1	2.34	0.60
2:I:869:ARG:CZ	2:I:870:ILE:HB	2.32	0.60
2:I:2212:VAL:HG22	2:I:2256:TYR:CZ	2.37	0.60
2:I:4650:HIS:CE1	2:I:4812:HIS:ND1	2.68	0.60
2:A:3327:LEU:CD1	2:A:3368:ARG:HH21	2.03	0.60
2:A:3464:ILE:O	2:A:3466:ASN:ND2	2.35	0.60
2:A:4576:ILE:HG21	2:A:4643:LEU:HB2	1.84	0.60
1:H:16:PRO:HB3	1:H:106:LEU:HD21	1.83	0.60
2:G:214:VAL:C	2:G:274:LEU:HD13	2.22	0.60
2:G:3037:GLU:HG2	2:G:3085:PRO:HD2	1.82	0.60
2:G:3318:ASN:O	2:G:3322:ILE:HG12	2.00	0.60
2:B:227:MET:CE	2:B:389:PHE:HD2	2.14	0.60
2:B:4576:ILE:HG21	2:B:4643:LEU:HB2	1.84	0.60
2:I:4161:ARG:HA	2:I:4164:LEU:HD12	1.82	0.60
2:I:4933:GLN:O	2:I:4937:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:31:GLN:HE21	1:F:96:THR:HB	1.65	0.60
2:A:227:MET:CE	2:A:389:PHE:HD2	2.14	0.60
2:A:265:LEU:HD22	2:A:279:PRO:HB2	1.82	0.60
2:A:3413:ILE:HD12	2:A:3469:PHE:O	1.99	0.60
2:A:4189:ARG:CB	2:A:4189:ARG:HH11	2.14	0.60
2:A:4933:GLN:O	2:A:4937:ILE:HG12	2.01	0.60
2:G:4576:ILE:HG21	2:G:4643:LEU:HB2	1.84	0.60
2:G:4948:GLU:O	2:G:4951:LYS:HG2	2.02	0.60
2:B:869:ARG:CZ	2:B:870:ILE:HB	2.32	0.60
2:B:3150:HIS:HB2	2:B:3152:PHE:CD1	2.36	0.60
2:B:3521:GLY:O	2:B:3524:MET:HG2	2.01	0.60
2:I:4627:MET:HG3	2:I:4628:VAL:N	2.17	0.60
2:I:4796:MET:HE3	2:I:4800:LEU:HG	1.83	0.60
2:G:3150:HIS:HB2	2:G:3152:PHE:CD1	2.36	0.60
2:G:3320:LEU:CD2	2:G:3357:HIS:HB3	2.21	0.60
2:B:2155:LEU:HD11	2:B:2198:MET:CE	2.28	0.60
2:B:3037:GLU:O	2:B:3040:THR:OG1	2.19	0.60
2:I:214:VAL:C	2:I:274:LEU:HD13	2.22	0.60
2:A:551:LEU:HB3	2:A:589:LEU:HD11	1.83	0.60
2:A:3187:ARG:HH12	2:A:3267:PRO:HB2	1.64	0.60
2:A:3414:ARG:O	2:A:3418:ASN:ND2	2.32	0.60
2:G:3532:LEU:HD22	2:G:3596:VAL:HG21	1.83	0.60
2:B:265:LEU:HD22	2:B:279:PRO:HB2	1.82	0.60
2:I:3464:ILE:O	2:I:3466:ASN:ND2	2.35	0.60
2:I:3521:GLY:O	2:I:3524:MET:HG2	2.01	0.60
2:I:4189:ARG:CB	2:I:4189:ARG:HH11	2.14	0.60
2:A:893:TYR:HB3	2:A:960:MET:HE1	1.84	0.60
2:A:2624:ARG:HH21	2:A:2911:LEU:HA	1.65	0.60
2:A:2645:THR:OG1	2:A:2702:CYS:SG	2.51	0.60
2:A:4689:THR:HG22	2:A:4732:PHE:CZ	2.36	0.60
2:G:990:GLU:HG3	2:G:1024:TYR:HB3	1.84	0.60
2:G:3050:VAL:HG22	2:G:3057:PHE:CE2	2.34	0.60
2:G:3464:ILE:O	2:G:3466:ASN:ND2	2.35	0.60
2:B:214:VAL:C	2:B:274:LEU:HD13	2.22	0.60
2:B:2311:PRO:HA	2:B:2314:LEU:HD12	1.83	0.60
2:B:3318:ASN:O	2:B:3322:ILE:HG12	2.00	0.60
2:I:2472:LEU:HD23	2:I:2494:PHE:CD2	2.36	0.60
2:I:3050:VAL:O	2:I:3050:VAL:HG12	2.00	0.60
2:I:3157:ILE:HA	2:I:3161:VAL:HG23	1.83	0.60
2:I:4576:ILE:HG21	2:I:4643:LEU:HB2	1.84	0.60
2:A:4948:GLU:O	2:A:4951:LYS:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4689:THR:HG22	2:G:4732:PHE:CZ	2.36	0.59
2:B:990:GLU:HG3	2:B:1024:TYR:HB3	1.84	0.59
2:B:2472:LEU:HD23	2:B:2494:PHE:CD2	2.36	0.59
2:I:3230:LEU:HB2	2:I:3232:LEU:CD1	2.31	0.59
2:A:2827:ARG:H	2:A:2934:GLY:HA3	1.67	0.59
2:A:3532:LEU:HD22	2:A:3596:VAL:HG21	1.83	0.59
1:O:16:PRO:HB3	1:O:106:LEU:HD21	1.83	0.59
2:G:3718:GLU:OE2	2:G:3723:MET:CE	2.50	0.59
2:B:2247:GLN:NE2	2:B:2279:SER:O	2.33	0.59
2:I:227:MET:CE	2:I:389:PHE:HD2	2.14	0.59
2:A:1819:VAL:O	2:A:1822:GLY:N	2.36	0.59
2:A:3718:GLU:OE2	2:A:3723:MET:CE	2.50	0.59
2:G:2827:ARG:H	2:G:2934:GLY:HA3	1.67	0.59
2:G:4049:VAL:CG2	2:G:4159:ARG:HD2	2.32	0.59
2:B:24:CYS:SG	2:B:200:TRP:CH2	2.96	0.59
2:B:1819:VAL:O	2:B:1822:GLY:N	2.36	0.59
2:B:3464:ILE:O	2:B:3466:ASN:ND2	2.35	0.59
2:B:4627:MET:HG3	2:B:4628:VAL:N	2.17	0.59
2:I:4658:ILE:CD1	2:I:4792:LEU:HB3	2.32	0.59
2:A:1170:MET:HE3	2:A:1176:GLU:OE2	2.02	0.59
2:A:2212:VAL:HG22	2:A:2256:TYR:CZ	2.37	0.59
2:A:4823:LEU:HD11	2:B:4839:MET:CB	2.29	0.59
2:G:4933:GLN:O	2:G:4937:ILE:HG12	2.01	0.59
2:B:3157:ILE:HA	2:B:3161:VAL:HG23	1.83	0.59
2:I:24:CYS:SG	2:I:200:TRP:CH2	2.96	0.59
2:I:2500:ALA:HB2	2:I:2553:TYR:CE1	2.38	0.59
2:I:3205:PHE:CE2	2:I:3276:MET:HE2	2.27	0.59
2:I:4689:THR:HG22	2:I:4732:PHE:CZ	2.36	0.59
2:A:3050:VAL:HG22	2:A:3057:PHE:CE2	2.34	0.59
2:A:3575:LEU:HD11	2:B:1208:VAL:HG11	1.83	0.59
1:O:31:GLN:HE21	1:O:96:THR:HB	1.66	0.59
1:O:85:THR:HG23	1:O:86:GLY:N	2.17	0.59
2:G:4551:PHE:CD1	2:G:4552:LEU:HD12	2.38	0.59
2:I:2302:LEU:HD11	2:I:2332:LEU:HD13	1.84	0.59
2:I:3068:LEU:HG	2:I:3139:VAL:CG2	2.28	0.59
2:A:1208:VAL:HG11	2:G:3575:LEU:HD11	1.84	0.59
2:A:2500:ALA:HB2	2:A:2553:TYR:CE1	2.38	0.59
2:A:2973:PHE:CD2	2:A:2995:ILE:HG22	2.38	0.59
1:J:16:PRO:HB3	1:J:106:LEU:HD21	1.83	0.59
2:I:1819:VAL:O	2:I:1822:GLY:N	2.36	0.59
2:I:2595:LEU:CD2	2:I:2599:GLN:CD	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2624:ARG:HH21	2:I:2911:LEU:HA	1.66	0.59
2:I:2973:PHE:CD2	2:I:2995:ILE:HG22	2.38	0.59
2:I:4948:GLU:O	2:I:4951:LYS:HG2	2.02	0.59
2:A:869:ARG:CZ	2:A:870:ILE:HB	2.32	0.59
2:A:3068:LEU:HG	2:A:3139:VAL:CG2	2.28	0.59
2:A:4796:MET:HE2	2:A:4800:LEU:HG	1.85	0.59
2:G:869:ARG:CZ	2:G:870:ILE:HB	2.32	0.59
2:G:2973:PHE:CD2	2:G:2995:ILE:HG22	2.38	0.59
2:G:4627:MET:HG3	2:G:4628:VAL:N	2.17	0.59
2:B:2827:ARG:H	2:B:2934:GLY:HA3	1.67	0.59
2:B:2997:PHE:HA	2:B:3001:ILE:HD13	1.85	0.59
2:I:2311:PRO:HA	2:I:2314:LEU:HD12	1.83	0.59
2:I:2638:LYS:NZ	2:I:2698:MET:HG3	2.18	0.59
1:F:85:THR:HG23	1:F:86:GLY:N	2.17	0.59
2:B:2500:ALA:HB2	2:B:2553:TYR:CE1	2.38	0.59
2:B:2638:LYS:NZ	2:B:2698:MET:HG3	2.18	0.59
2:B:3414:ARG:O	2:B:3418:ASN:ND2	2.32	0.59
2:I:2747:ILE:HD11	2:I:2751:LEU:HD23	1.85	0.59
2:I:2997:PHE:HA	2:I:3001:ILE:HD13	1.85	0.59
2:A:24:CYS:SG	2:A:200:TRP:CH2	2.96	0.59
2:A:4551:PHE:CD1	2:A:4552:LEU:HD12	2.38	0.59
1:H:85:THR:HG23	1:H:86:GLY:N	2.17	0.59
2:G:2302:LEU:HD11	2:G:2332:LEU:HD13	1.84	0.59
2:G:2638:LYS:NZ	2:G:2698:MET:HG3	2.18	0.59
2:G:2747:ILE:HD11	2:G:2751:LEU:HD23	1.85	0.59
2:B:3080:VAL:HG12	2:B:3081:MET:HE2	1.83	0.59
2:B:4658:ILE:CD1	2:B:4792:LEU:HB3	2.32	0.59
2:I:491:ILE:O	2:I:495:ASN:HB2	2.03	0.59
2:I:3081:MET:HE1	2:I:3089:LYS:HA	1.84	0.59
2:A:3705:PHE:HB2	2:A:3778:MET:SD	2.42	0.59
2:A:4627:MET:HG3	2:A:4628:VAL:N	2.17	0.59
2:G:2500:ALA:HB2	2:G:2553:TYR:CE1	2.38	0.59
2:G:4658:ILE:CD1	2:G:4792:LEU:HB3	2.32	0.59
2:B:491:ILE:O	2:B:495:ASN:HB2	2.03	0.59
2:B:3081:MET:HE1	2:B:3089:LYS:HA	1.84	0.59
2:B:4551:PHE:CD1	2:B:4552:LEU:HD12	2.38	0.59
2:I:128:THR:HG21	2:I:185:ALA:HB3	1.85	0.59
2:I:1520:VAL:HG12	2:I:1527:MET:HG2	1.85	0.59
2:I:2827:ARG:H	2:I:2934:GLY:HA3	1.67	0.59
2:A:214:VAL:C	2:A:274:LEU:HD13	2.22	0.58
2:A:3215:ALA:O	2:A:3221:THR:OG1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:24:CYS:SG	2:G:200:TRP:CH2	2.96	0.58
2:G:3705:PHE:HB2	2:G:3778:MET:SD	2.42	0.58
2:G:4127:GLU:O	2:G:4131:ARG:HG3	2.03	0.58
2:B:2595:LEU:CD2	2:B:2599:GLN:CD	2.71	0.58
2:I:3705:PHE:HB2	2:I:3778:MET:SD	2.42	0.58
2:A:2638:LYS:NZ	2:A:2698:MET:HG3	2.18	0.58
2:G:128:THR:HG21	2:G:185:ALA:HB3	1.85	0.58
2:G:3215:ALA:O	2:G:3221:THR:OG1	2.21	0.58
2:B:128:THR:HG21	2:B:185:ALA:HB3	1.85	0.58
2:A:2997:PHE:HA	2:A:3001:ILE:HD13	1.85	0.58
2:A:5009:TYR:CE2	2:A:5013:MET:HE2	2.39	0.58
1:J:85:THR:HG23	1:J:86:GLY:N	2.17	0.58
2:G:227:MET:HE1	2:G:389:PHE:HD2	1.68	0.58
2:B:296:ASP:OD1	2:B:297:GLN:N	2.36	0.58
2:B:1520:VAL:HG12	2:B:1527:MET:HG2	1.85	0.58
2:B:3718:GLU:OE2	2:B:3723:MET:CE	2.50	0.58
2:B:4678:ALA:HB1	2:B:4720:VAL:HG21	1.85	0.58
2:I:706:GLY:N	2:I:709:ASP:OD2	2.31	0.58
2:I:924:MET:HA	2:I:924:MET:HE1	1.84	0.58
2:I:990:GLU:HG3	2:I:1024:TYR:HB3	1.84	0.58
2:I:2686:LEU:HG	2:I:2696:TYR:CE2	2.39	0.58
2:I:3233:PRO:HD2	2:I:3239:MET:SD	2.43	0.58
2:A:296:ASP:OD1	2:A:297:GLN:N	2.36	0.58
2:A:977:LEU:HD11	2:A:1044:ARG:HG3	1.84	0.58
2:G:1229:ASN:HB3	2:G:1826:ALA:HB1	1.84	0.58
2:G:1520:VAL:HG12	2:G:1527:MET:HG2	1.85	0.58
2:B:4948:GLU:O	2:B:4951:LYS:HG2	2.02	0.58
2:I:2696:TYR:CD2	2:I:3001:ILE:HG12	2.38	0.58
2:I:2960:LEU:HD23	2:I:2963:LEU:HD12	1.86	0.58
2:I:4551:PHE:CD1	2:I:4552:LEU:HD12	2.38	0.58
2:I:5009:TYR:CE2	2:I:5013:MET:HE2	2.38	0.58
2:A:990:GLU:HG3	2:A:1024:TYR:HB3	1.84	0.58
2:A:2302:LEU:HD11	2:A:2332:LEU:HD13	1.84	0.58
2:G:977:LEU:HD11	2:G:1044:ARG:HG3	1.84	0.58
2:G:1208:VAL:HG11	2:I:3575:LEU:HD11	1.86	0.58
2:G:2595:LEU:CD2	2:G:2599:GLN:CD	2.71	0.58
2:G:2686:LEU:HG	2:G:2696:TYR:CE2	2.39	0.58
2:G:4189:ARG:HH11	2:G:4189:ARG:HB3	1.69	0.58
2:B:3705:PHE:HB2	2:B:3778:MET:SD	2.43	0.58
2:B:4658:ILE:HD13	2:B:4792:LEU:HB3	1.86	0.58
2:I:1229:ASN:HB3	2:I:1826:ALA:HB1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4658:ILE:CD1	2:A:4792:LEU:HB3	2.32	0.58
2:G:3233:PRO:HD2	2:G:3239:MET:SD	2.43	0.58
2:G:5009:TYR:CE2	2:G:5013:MET:HE2	2.38	0.58
2:B:1229:ASN:HB3	2:B:1826:ALA:HB1	1.84	0.58
2:B:2747:ILE:HD11	2:B:2751:LEU:HD23	1.85	0.58
2:B:3050:VAL:HG22	2:B:3057:PHE:CE2	2.34	0.58
2:B:3233:PRO:HD2	2:B:3239:MET:SD	2.43	0.58
2:I:296:ASP:OD1	2:I:297:GLN:N	2.36	0.58
2:A:2644:LEU:HD12	2:A:2648:TYR:CE2	2.39	0.58
2:A:4127:GLU:O	2:A:4131:ARG:HG3	2.03	0.58
2:G:37:LEU:HD21	2:G:191:VAL:HG21	1.86	0.58
2:G:2997:PHE:HA	2:G:3001:ILE:HD13	1.85	0.58
2:B:37:LEU:HD21	2:B:191:VAL:HG21	1.86	0.58
2:B:924:MET:HA	2:B:924:MET:HE2	1.83	0.58
2:B:2302:LEU:HD11	2:B:2332:LEU:HD13	1.84	0.58
2:B:2973:PHE:CD2	2:B:2995:ILE:HG22	2.38	0.58
2:I:176:SER:HB2	2:I:178:ARG:HH21	1.69	0.58
2:A:37:LEU:HD21	2:A:191:VAL:HG21	1.86	0.58
2:A:924:MET:HA	2:A:924:MET:HE1	1.84	0.58
2:A:2696:TYR:CD2	2:A:3001:ILE:HG12	2.38	0.58
2:A:2697:ARG:HA	2:A:2700:MET:HE2	1.85	0.58
2:A:4796:MET:HE3	2:A:4800:LEU:HG	1.84	0.58
2:G:176:SER:HB2	2:G:178:ARG:HH21	1.69	0.58
2:G:177:GLU:O	2:I:2359:ARG:NH2	2.32	0.58
2:G:491:ILE:O	2:G:495:ASN:HB2	2.03	0.58
2:G:2696:TYR:CD2	2:G:3001:ILE:HG12	2.38	0.58
2:G:4658:ILE:HD13	2:G:4792:LEU:HB3	1.86	0.58
2:B:4049:VAL:CG2	2:B:4159:ARG:HD2	2.32	0.58
2:B:4127:GLU:O	2:B:4131:ARG:HG3	2.03	0.58
2:I:977:LEU:HD11	2:I:1044:ARG:HG3	1.84	0.58
2:I:2644:LEU:HD12	2:I:2648:TYR:CE2	2.39	0.58
2:A:128:THR:HG21	2:A:185:ALA:HB3	1.85	0.58
2:A:924:MET:HE1	2:A:927:GLU:HB2	1.86	0.58
2:A:2747:ILE:HD11	2:A:2751:LEU:HD23	1.85	0.58
2:A:4658:ILE:HD13	2:A:4792:LEU:HB3	1.86	0.58
1:J:31:GLN:HE21	1:J:96:THR:CG2	2.17	0.58
2:G:296:ASP:OD1	2:G:297:GLN:N	2.36	0.58
2:G:861:ILE:HG21	2:G:933:LEU:HD12	1.86	0.58
2:G:4056:GLU:HG2	2:G:4166:LEU:CD2	2.34	0.58
2:B:4056:GLU:HG2	2:B:4166:LEU:CD2	2.34	0.58
2:I:37:LEU:HD21	2:I:191:VAL:HG21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4127:GLU:O	2:I:4131:ARG:HG3	2.03	0.58
2:I:4658:ILE:HD13	2:I:4792:LEU:HB3	1.86	0.58
2:A:233:ILE:HD12	2:A:242:ARG:HB3	1.86	0.58
2:A:681:HIS:HE2	2:A:683:ARG:NE	2.02	0.58
2:A:2595:LEU:CD2	2:A:2599:GLN:CD	2.71	0.58
2:A:4049:VAL:CG2	2:A:4159:ARG:HD2	2.32	0.58
2:G:233:ILE:HD12	2:G:242:ARG:HB3	1.86	0.58
2:G:2715:VAL:HG11	2:G:2950:SER:HB2	1.86	0.58
2:G:2960:LEU:HD23	2:G:2963:LEU:HD12	1.86	0.58
2:B:176:SER:HB2	2:B:178:ARG:HH21	1.69	0.58
2:I:681:HIS:HE2	2:I:683:ARG:NE	2.02	0.58
2:I:4678:ALA:HB1	2:I:4720:VAL:HG21	1.85	0.58
2:A:3413:ILE:HG13	2:A:3414:ARG:N	2.19	0.57
2:A:3836:MET:HE3	2:A:3885:PHE:CE1	2.34	0.57
2:A:4678:ALA:HB1	2:A:4720:VAL:HG21	1.85	0.57
2:G:4678:ALA:HB1	2:G:4720:VAL:HG21	1.85	0.57
2:B:2644:LEU:HD12	2:B:2648:TYR:CE2	2.39	0.57
2:I:2500:ALA:CA	2:I:2553:TYR:CE1	2.87	0.57
2:I:3416:VAL:CG2	2:I:3517:MET:CE	2.83	0.57
1:F:31:GLN:HE21	1:F:96:THR:CG2	2.17	0.57
2:A:1229:ASN:HB3	2:A:1826:ALA:HB1	1.84	0.57
2:G:158:SER:N	2:G:161:GLU:OE2	2.29	0.57
2:G:1819:VAL:O	2:G:1822:GLY:N	2.36	0.57
2:G:3414:ARG:O	2:G:3418:ASN:ND2	2.32	0.57
2:B:977:LEU:HD11	2:B:1044:ARG:HG3	1.84	0.57
2:B:2686:LEU:HG	2:B:2696:TYR:CE2	2.39	0.57
2:B:2696:TYR:CD2	2:B:3001:ILE:HG12	2.38	0.57
2:B:2762:THR:O	2:B:2766:TRP:N	2.35	0.57
2:I:3413:ILE:HG13	2:I:3414:ARG:N	2.19	0.57
2:A:158:SER:N	2:A:161:GLU:OE2	2.29	0.57
2:A:491:ILE:O	2:A:495:ASN:HB2	2.03	0.57
2:A:1781:CYS:SG	2:A:1783:VAL:HG22	2.45	0.57
2:A:2500:ALA:CA	2:A:2553:TYR:CE1	2.86	0.57
2:A:2762:THR:O	2:A:2766:TRP:N	2.35	0.57
2:A:3173:TYR:CE1	2:A:3244:PRO:HD3	2.39	0.57
2:A:3233:PRO:HD2	2:A:3239:MET:SD	2.43	0.57
2:G:1781:CYS:SG	2:G:1783:VAL:HG22	2.45	0.57
2:G:3413:ILE:HG13	2:G:3414:ARG:N	2.19	0.57
2:B:4189:ARG:HH11	2:B:4189:ARG:HB3	1.69	0.57
2:I:861:ILE:HG21	2:I:933:LEU:HD12	1.86	0.57
2:I:3215:ALA:O	2:I:3221:THR:OG1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4056:GLU:HG2	2:A:4166:LEU:CD2	2.34	0.57
2:G:2644:LEU:HD12	2:G:2648:TYR:CE2	2.39	0.57
2:G:2972:GLU:OE2	2:G:2976:HIS:NE2	2.38	0.57
2:B:1170:MET:HE3	2:B:1176:GLU:OE2	2.03	0.57
2:B:2615:ARG:CZ	2:B:2618:MET:HE1	2.05	0.57
2:B:3173:TYR:CE1	2:B:3244:PRO:HD3	2.39	0.57
2:B:3416:VAL:CG2	2:B:3517:MET:CE	2.83	0.57
2:I:2972:GLU:OE2	2:I:2976:HIS:NE2	2.38	0.57
2:I:3173:TYR:CE1	2:I:3244:PRO:HD3	2.39	0.57
2:I:4049:VAL:CG2	2:I:4159:ARG:HD2	2.32	0.57
2:A:2970:SER:HA	2:A:2973:PHE:CE1	2.39	0.57
1:H:31:GLN:HE21	1:H:96:THR:CG2	2.17	0.57
1:O:31:GLN:HE21	1:O:96:THR:CG2	2.17	0.57
2:G:3147:ILE:HG13	2:G:3152:PHE:HB2	1.87	0.57
2:G:3205:PHE:CE2	2:G:3276:MET:HE2	2.30	0.57
2:B:2098:VAL:HA	2:B:2101:MET:HG2	1.87	0.57
2:B:2960:LEU:HD23	2:B:2963:LEU:HD12	1.86	0.57
2:I:1948:ASP:OD2	2:I:2126:ARG:NH2	2.22	0.57
2:I:3038:MET:O	2:I:3042:LEU:HD13	2.04	0.57
2:G:3927:GLN:HB3	2:G:3992:PHE:CE1	2.40	0.57
2:B:1781:CYS:SG	2:B:1783:VAL:HG22	2.45	0.57
2:B:2970:SER:HA	2:B:2973:PHE:CE1	2.39	0.57
2:B:3215:ALA:O	2:B:3221:THR:OG1	2.21	0.57
2:I:2715:VAL:HG11	2:I:2950:SER:HB2	1.86	0.57
2:A:3147:ILE:HG13	2:A:3152:PHE:HB2	1.86	0.57
2:A:3416:VAL:CG2	2:A:3517:MET:CE	2.83	0.57
2:B:233:ILE:HD12	2:B:242:ARG:HB3	1.86	0.57
2:B:2972:GLU:OE2	2:B:2976:HIS:NE2	2.38	0.57
2:B:3038:MET:O	2:B:3042:LEU:HD13	2.05	0.57
2:B:3201:MET:HE3	2:B:3205:PHE:CD1	2.34	0.57
2:A:357:LEU:HD11	2:A:376:ALA:HB1	1.87	0.57
2:A:1520:VAL:HG12	2:A:1527:MET:HG2	1.85	0.57
2:A:2686:LEU:HG	2:A:2696:TYR:CE2	2.39	0.57
2:A:2972:GLU:OE2	2:A:2976:HIS:NE2	2.38	0.57
2:A:3320:LEU:CD2	2:A:3357:HIS:HB3	2.21	0.57
2:A:3927:GLN:HB3	2:A:3992:PHE:CE1	2.40	0.57
2:G:215:THR:HA	2:G:274:LEU:HD12	1.87	0.57
2:G:357:LEU:HD11	2:G:376:ALA:HB1	1.87	0.57
2:G:3416:VAL:CG2	2:G:3517:MET:CE	2.83	0.57
2:B:363:ASP:HA	2:B:367:LEU:HD12	1.87	0.57
2:A:2540:THR:HG1	2:A:2541:PHE:HD2	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2644:LEU:HD12	2:A:2648:TYR:HE2	1.70	0.57
2:A:2960:LEU:HD23	2:A:2963:LEU:HD12	1.86	0.57
2:A:3037:GLU:O	2:A:3040:THR:OG1	2.19	0.57
2:G:3140:LEU:HG	2:G:3144:PHE:CZ	2.40	0.57
2:G:3725:TYR:O	2:G:3729:MET:HG3	2.05	0.57
2:B:3413:ILE:HG13	2:B:3414:ARG:N	2.19	0.57
2:I:897:ARG:HH11	2:I:901:LYS:HD2	1.70	0.57
2:I:215:THR:HA	2:I:274:LEU:HD12	1.87	0.57
2:I:2762:THR:O	2:I:2766:TRP:N	2.35	0.57
2:I:4735:GLU:OE1	2:I:4735:GLU:N	2.34	0.57
2:A:215:THR:CA	2:A:274:LEU:CD1	2.83	0.56
2:A:363:ASP:HA	2:A:367:LEU:HD12	1.87	0.56
2:G:2362:GLU:HA	2:G:2369:ARG:NH1	2.20	0.56
2:G:2621:HIS:O	2:G:2624:ARG:HB3	2.05	0.56
2:G:2964:LEU:CD2	2:G:3042:LEU:HD12	2.32	0.56
2:G:3173:TYR:CE1	2:G:3244:PRO:HD3	2.39	0.56
2:B:158:SER:N	2:B:161:GLU:OE2	2.29	0.56
2:B:681:HIS:HE2	2:B:683:ARG:NE	2.02	0.56
2:B:897:ARG:HH11	2:B:901:LYS:HD2	1.70	0.56
2:B:3327:LEU:CD1	2:B:3368:ARG:HH21	2.03	0.56
2:B:3416:VAL:HG21	2:B:3517:MET:CE	2.35	0.56
2:I:233:ILE:HD12	2:I:242:ARG:HB3	1.86	0.56
2:I:1781:CYS:SG	2:I:1783:VAL:HG22	2.45	0.56
2:I:3927:GLN:HB3	2:I:3992:PHE:CE1	2.40	0.56
2:A:2621:HIS:O	2:A:2624:ARG:HB3	2.05	0.56
2:A:3038:MET:O	2:A:3042:LEU:HD13	2.04	0.56
2:A:3725:TYR:O	2:A:3729:MET:HG3	2.05	0.56
2:A:4189:ARG:HH11	2:A:4189:ARG:HB3	1.69	0.56
2:G:363:ASP:HA	2:G:367:LEU:HD12	1.87	0.56
2:G:2644:LEU:HD12	2:G:2648:TYR:HE2	1.70	0.56
2:I:363:ASP:HA	2:I:367:LEU:HD12	1.87	0.56
2:I:2964:LEU:CD2	2:I:3042:LEU:HD12	2.32	0.56
2:I:3533:ILE:HG22	2:I:3537:LYS:HE2	1.86	0.56
2:I:3725:TYR:O	2:I:3729:MET:HG3	2.05	0.56
2:A:176:SER:HB2	2:A:178:ARG:HH21	1.69	0.56
2:A:2098:VAL:HA	2:A:2101:MET:HG2	1.87	0.56
2:A:2736:ASP:OD1	2:A:2891:LYS:NZ	2.39	0.56
2:A:3533:ILE:HG22	2:A:3537:LYS:HE2	1.86	0.56
2:G:897:ARG:HH11	2:G:901:LYS:HD2	1.70	0.56
2:G:1116:GLY:HA3	2:G:1132:TRP:HB3	1.88	0.56
2:G:2332:LEU:HD23	2:G:2429:LEU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2992:GLU:O	2:G:2995:ILE:HG12	2.06	0.56
2:G:3038:MET:O	2:G:3042:LEU:HD13	2.04	0.56
2:B:357:LEU:HD11	2:B:376:ALA:HB1	1.87	0.56
2:B:861:ILE:HG21	2:B:933:LEU:HD12	1.86	0.56
2:B:2621:HIS:O	2:B:2624:ARG:HB3	2.05	0.56
2:B:3147:ILE:HG13	2:B:3152:PHE:HB2	1.86	0.56
2:B:3533:ILE:HG22	2:B:3537:LYS:HE2	1.86	0.56
2:B:3927:GLN:HB3	2:B:3992:PHE:CE1	2.40	0.56
2:I:924:MET:HE1	2:I:927:GLU:HB2	1.86	0.56
2:I:1748:PHE:HE1	2:I:1760:HIS:HD2	1.53	0.56
2:I:2644:LEU:HD12	2:I:2648:TYR:HE2	1.70	0.56
2:I:3140:LEU:HG	2:I:3144:PHE:CZ	2.40	0.56
2:I:4056:GLU:HG2	2:I:4166:LEU:CD2	2.34	0.56
2:A:2472:LEU:HD23	2:A:2494:PHE:CZ	2.41	0.56
2:A:3240:CYS:HB3	2:A:3243:ILE:HD12	1.88	0.56
2:G:681:HIS:HE2	2:G:683:ARG:NE	2.02	0.56
2:G:2500:ALA:CA	2:G:2553:TYR:CE1	2.86	0.56
2:B:2332:LEU:HD23	2:B:2429:LEU:N	2.21	0.56
2:B:3240:CYS:HB3	2:B:3243:ILE:HD12	1.88	0.56
2:I:357:LEU:HD11	2:I:376:ALA:HB1	1.87	0.56
2:I:1116:GLY:HA3	2:I:1132:TRP:HB3	1.88	0.56
2:I:2098:VAL:HA	2:I:2101:MET:HG2	1.87	0.56
2:I:2621:HIS:O	2:I:2624:ARG:HB3	2.05	0.56
2:I:4796:MET:HE2	2:I:4800:LEU:HG	1.86	0.56
2:A:861:ILE:HG21	2:A:933:LEU:HD12	1.86	0.56
2:A:2332:LEU:HD23	2:A:2429:LEU:N	2.21	0.56
2:G:3533:ILE:HG22	2:G:3537:LYS:HE2	1.86	0.56
2:I:215:THR:CA	2:I:274:LEU:CD1	2.83	0.56
2:I:2970:SER:HA	2:I:2973:PHE:CE1	2.40	0.56
2:I:4189:ARG:HH11	2:I:4189:ARG:HB3	1.69	0.56
2:B:2362:GLU:HA	2:B:2369:ARG:NH1	2.20	0.56
2:B:3068:LEU:HG	2:B:3139:VAL:CG2	2.28	0.56
2:G:2970:SER:HA	2:G:2973:PHE:CE1	2.39	0.56
2:G:3844:LEU:O	2:G:3848:GLU:HG2	2.06	0.56
2:B:215:THR:HA	2:B:274:LEU:HD12	1.87	0.56
2:B:215:THR:CA	2:B:274:LEU:CD1	2.83	0.56
2:B:924:MET:HE2	2:B:927:GLU:HB2	1.87	0.56
2:I:2332:LEU:HD23	2:I:2429:LEU:N	2.21	0.56
2:I:3240:CYS:HB3	2:I:3243:ILE:HD12	1.88	0.56
2:I:3844:LEU:O	2:I:3848:GLU:HG2	2.06	0.56
2:A:2715:VAL:HG11	2:A:2950:SER:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:215:THR:CA	2:G:274:LEU:CD1	2.83	0.56
2:B:1748:PHE:HE1	2:B:1760:HIS:HD2	1.53	0.56
2:B:3235:SER:O	2:B:3238:GLU:HG2	2.06	0.56
2:B:3324:VAL:O	2:B:3327:LEU:HD22	2.06	0.56
2:A:3522:LEU:HD21	2:A:3603:LEU:HD21	1.88	0.56
2:G:924:MET:HE1	2:G:927:GLU:HB2	1.88	0.56
2:G:3037:GLU:O	2:G:3040:THR:OG1	2.19	0.56
2:G:3240:CYS:HB3	2:G:3243:ILE:HD12	1.88	0.56
2:B:2638:LYS:CE	2:B:2698:MET:HG3	2.36	0.56
2:B:2715:VAL:HG11	2:B:2950:SER:HB2	1.86	0.56
2:B:3522:LEU:HD21	2:B:3603:LEU:HD21	1.88	0.56
2:B:3725:TYR:O	2:B:3729:MET:HG3	2.05	0.56
2:I:2496:PRO:HD3	2:I:2546:MET:CE	2.36	0.56
2:A:128:THR:OG1	2:A:186:SER:OG	2.24	0.56
2:A:1748:PHE:HE1	2:A:1760:HIS:HD2	1.53	0.56
2:A:2496:PRO:HD3	2:A:2546:MET:CE	2.36	0.56
2:A:3000:LYS:HB2	2:A:3001:ILE:HD12	1.88	0.56
2:G:1748:PHE:HE1	2:G:1760:HIS:HD2	1.53	0.56
2:B:128:THR:OG1	2:B:186:SER:OG	2.24	0.56
2:B:495:ASN:HD22	2:B:550:LYS:HE3	1.71	0.56
2:B:3140:LEU:HG	2:B:3144:PHE:CZ	2.40	0.56
2:I:1827:ARG:O	2:I:1829:PRO:HD3	2.06	0.56
2:I:2029:GLN:NE2	2:I:2033:ASP:OD1	2.39	0.56
2:I:3416:VAL:HG21	2:I:3517:MET:CE	2.35	0.56
2:A:2992:GLU:O	2:A:2995:ILE:HG12	2.06	0.55
2:B:2472:LEU:HD23	2:B:2494:PHE:CZ	2.41	0.55
2:B:3000:LYS:HB2	2:B:3001:ILE:HD12	1.88	0.55
2:I:695:TYR:HD2	2:I:1240:LYS:HE3	1.71	0.55
2:I:2992:GLU:O	2:I:2995:ILE:HG12	2.06	0.55
2:A:215:THR:HA	2:A:274:LEU:HD12	1.87	0.55
2:A:897:ARG:HH11	2:A:901:LYS:HD2	1.70	0.55
2:A:3844:LEU:O	2:A:3848:GLU:HG2	2.06	0.55
2:B:379:HIS:CD2	2:B:380:GLN:H	2.24	0.55
2:B:3281:LEU:CB	2:B:3312:LEU:HD21	2.37	0.55
2:I:379:HIS:CD2	2:I:380:GLN:H	2.24	0.55
2:I:3235:SER:O	2:I:3238:GLU:HG2	2.06	0.55
2:I:4104:THR:HG22	2:I:4107:GLU:HG2	1.88	0.55
2:A:2638:LYS:CE	2:A:2698:MET:HG3	2.36	0.55
2:G:20:VAL:HG21	2:G:202:MET:CE	2.37	0.55
2:G:2305:CYS:SG	2:G:2328:GLY:N	2.80	0.55
2:G:2472:LEU:HD23	2:G:2494:PHE:CZ	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2700:MET:HB2	2:G:2701:PRO:HD3	1.89	0.55
2:G:2967:MET:HE1	2:G:3045:LYS:CB	2.11	0.55
2:G:3235:SER:O	2:G:3238:GLU:HG2	2.06	0.55
2:B:1116:GLY:HA3	2:B:1132:TRP:HB3	1.88	0.55
2:B:2644:LEU:HD12	2:B:2648:TYR:HE2	1.70	0.55
2:I:2362:GLU:HA	2:I:2369:ARG:NH1	2.20	0.55
2:I:2736:ASP:OD1	2:I:2891:LYS:NZ	2.39	0.55
2:I:3000:LYS:HB2	2:I:3001:ILE:HD12	1.88	0.55
2:A:800:PHE:O	2:A:802:PHE:N	2.40	0.55
2:A:1827:ARG:O	2:A:1829:PRO:HD3	2.06	0.55
2:A:2305:CYS:SG	2:A:2328:GLY:N	2.80	0.55
2:G:706:GLY:N	2:G:709:ASP:OD2	2.31	0.55
2:G:800:PHE:O	2:G:802:PHE:N	2.40	0.55
2:G:870:ILE:HG13	2:G:874:LEU:HD23	1.89	0.55
2:G:886:ARG:NE	2:G:904:HIS:HB2	2.22	0.55
2:B:215:THR:C	2:B:274:LEU:CD1	2.75	0.55
2:B:1827:ARG:O	2:B:1829:PRO:HD3	2.06	0.55
2:B:2283:ASN:HB2	2:B:2286:LEU:HB2	1.88	0.55
2:B:2634:ASN:HD21	2:B:2636:PHE:HB2	1.72	0.55
2:B:3269:VAL:O	2:B:3274:LEU:HG	2.07	0.55
2:B:4104:THR:HG22	2:B:4107:GLU:HG2	1.88	0.55
2:B:4963:ILE:HB	2:B:4968:PHE:HE2	1.71	0.55
2:I:2283:ASN:HB2	2:I:2286:LEU:HB2	1.88	0.55
2:I:2638:LYS:CE	2:I:2698:MET:HG3	2.36	0.55
2:I:3269:VAL:O	2:I:3274:LEU:HG	2.07	0.55
2:A:2700:MET:HB2	2:A:2701:PRO:HD3	1.89	0.55
2:A:3529:ASP:OD2	2:A:3595:ARG:NH2	2.30	0.55
2:A:4655:PHE:CE2	2:A:4659:ILE:HD11	2.42	0.55
2:A:4963:ILE:HB	2:A:4968:PHE:HE2	1.71	0.55
2:G:379:HIS:CD2	2:G:380:GLN:H	2.24	0.55
2:G:1638:ALA:HB1	2:G:1647:CYS:SG	2.47	0.55
2:G:1827:ARG:O	2:G:1829:PRO:HD3	2.06	0.55
2:B:663:TYR:OH	2:B:665:GLU:OE2	2.13	0.55
2:B:800:PHE:O	2:B:802:PHE:N	2.40	0.55
2:B:1490:SER:OG	2:B:1491:ASN:N	2.40	0.55
2:B:3575:LEU:HD11	2:I:1208:VAL:HG11	1.88	0.55
2:B:3844:LEU:O	2:B:3848:GLU:HG2	2.06	0.55
2:B:5009:TYR:CE2	2:B:5013:MET:HE2	2.42	0.55
2:I:20:VAL:HG21	2:I:202:MET:CE	2.37	0.55
2:I:3147:ILE:HG13	2:I:3152:PHE:HB2	1.87	0.55
2:I:3281:LEU:CB	2:I:3312:LEU:HD21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:379:HIS:CD2	2:A:380:GLN:H	2.24	0.55
2:A:1116:GLY:HA3	2:A:1132:TRP:HB3	1.88	0.55
2:A:2575:ARG:HH12	2:A:2578:MET:CE	1.79	0.55
2:A:3140:LEU:HG	2:A:3144:PHE:CZ	2.40	0.55
2:A:3235:SER:O	2:A:3238:GLU:HG2	2.06	0.55
2:G:2496:PRO:HD3	2:G:2546:MET:CE	2.36	0.55
2:G:2634:ASN:HD21	2:G:2636:PHE:HB2	1.72	0.55
2:G:2736:ASP:OD1	2:G:2891:LYS:NZ	2.39	0.55
2:G:3000:LYS:HB2	2:G:3001:ILE:HD12	1.88	0.55
2:G:4963:ILE:HB	2:G:4968:PHE:HE2	1.71	0.55
2:B:870:ILE:HG13	2:B:874:LEU:HD23	1.89	0.55
2:B:2992:GLU:O	2:B:2995:ILE:HG12	2.06	0.55
2:B:3554:GLN:NE2	2:B:3593:VAL:HG11	2.22	0.55
2:B:4976:GLU:O	2:B:4980:LEU:HD23	2.07	0.55
2:I:2634:ASN:HD21	2:I:2636:PHE:HB2	1.72	0.55
2:I:3414:ARG:O	2:I:3418:ASN:ND2	2.32	0.55
2:I:3718:GLU:OE2	2:I:3723:MET:CE	2.50	0.55
2:I:4092:ASP:CA	2:I:4095:LYS:HZ2	2.02	0.55
2:I:4655:PHE:CE2	2:I:4659:ILE:HD11	2.42	0.55
2:A:2029:GLN:NE2	2:A:2033:ASP:OD1	2.39	0.55
2:A:2031:LEU:HD11	2:A:3657:TYR:CE1	2.42	0.55
2:A:3324:VAL:O	2:A:3327:LEU:HD22	2.06	0.55
2:A:3554:GLN:NE2	2:A:3593:VAL:HG11	2.22	0.55
2:A:3768:SER:HA	2:A:3771:HIS:CE1	2.41	0.55
2:A:4128:PHE:HD1	2:A:4131:ARG:HH21	1.55	0.55
2:G:495:ASN:HD22	2:G:550:LYS:HE3	1.71	0.55
2:G:664:PHE:HB3	2:G:811:CYS:SG	2.47	0.55
2:G:2098:VAL:HA	2:G:2101:MET:HG2	1.87	0.55
2:G:2638:LYS:CE	2:G:2698:MET:HG3	2.36	0.55
2:B:664:PHE:HB3	2:B:811:CYS:SG	2.46	0.55
2:B:2700:MET:HB2	2:B:2701:PRO:HD3	1.89	0.55
2:B:3320:LEU:CD2	2:B:3357:HIS:HB3	2.21	0.55
2:I:4103:PHE:HB3	2:I:4107:GLU:HG3	1.88	0.55
2:I:4976:GLU:O	2:I:4980:LEU:HD23	2.07	0.55
1:F:31:GLN:HG3	1:F:98:ILE:HD11	1.89	0.55
2:G:3324:VAL:O	2:G:3327:LEU:HD22	2.06	0.55
2:B:2029:GLN:NE2	2:B:2033:ASP:OD1	2.39	0.55
2:B:2496:PRO:HD3	2:B:2546:MET:CE	2.36	0.55
2:B:2653:LYS:HG3	2:B:2661:TRP:CD1	2.42	0.55
2:I:1638:ALA:HB1	2:I:1647:CYS:SG	2.47	0.55
2:I:2635:GLU:HA	2:I:2635:GLU:OE2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2700:MET:HB2	2:I:2701:PRO:HD3	1.89	0.55
2:A:695:TYR:HD2	2:A:1240:LYS:HE3	1.71	0.55
2:A:3206:LEU:HD21	2:A:3276:MET:CE	2.37	0.55
2:A:3269:VAL:O	2:A:3274:LEU:HG	2.07	0.55
2:A:4103:PHE:HB3	2:A:4107:GLU:HG3	1.88	0.55
2:G:875:ALA:O	2:G:879:HIS:ND1	2.40	0.55
2:B:153:ALA:HB2	2:B:168:ASP:HB2	1.89	0.55
2:B:2497:ASP:OD1	2:B:2498:HIS:N	2.40	0.55
2:B:4636:THR:HG21	2:B:4639:MET:HE3	1.89	0.55
2:B:4967:TYR:CE2	2:B:5030:LYS:HG3	2.42	0.55
2:I:800:PHE:O	2:I:802:PHE:N	2.40	0.55
2:I:2439:GLU:OE2	2:I:2508:ARG:NH2	2.40	0.55
2:I:3324:VAL:O	2:I:3327:LEU:HD22	2.06	0.55
2:A:870:ILE:HG13	2:A:874:LEU:HD23	1.89	0.55
2:A:2362:GLU:HA	2:A:2369:ARG:NH1	2.20	0.55
2:G:215:THR:C	2:G:274:LEU:CD1	2.75	0.55
2:G:2031:LEU:HD11	2:G:3657:TYR:CE1	2.42	0.55
2:G:2439:GLU:OE2	2:G:2508:ARG:NH2	2.40	0.55
2:G:3206:LEU:HD21	2:G:3276:MET:CE	2.37	0.55
2:G:4045:VAL:HB	2:G:4159:ARG:HH11	1.72	0.55
2:B:1478:ASP:OD1	2:B:1482:ASN:N	2.40	0.55
2:B:1638:ALA:HB1	2:B:1647:CYS:SG	2.47	0.55
2:B:2305:CYS:SG	2:B:2328:GLY:N	2.80	0.55
2:B:2736:ASP:OD1	2:B:2891:LYS:NZ	2.39	0.55
2:B:4809:PHE:O	2:B:4812:HIS:HB2	2.07	0.55
2:I:128:THR:OG1	2:I:186:SER:OG	2.24	0.55
2:I:495:ASN:HD22	2:I:550:LYS:HE3	1.71	0.55
2:I:875:ALA:O	2:I:879:HIS:ND1	2.40	0.55
2:I:3206:LEU:HD21	2:I:3276:MET:CE	2.37	0.55
2:I:3522:LEU:HD21	2:I:3603:LEU:HD21	1.88	0.55
2:I:3768:SER:HA	2:I:3771:HIS:CE1	2.41	0.55
2:I:4700:GLN:OE1	2:I:4703:ARG:NH2	2.40	0.55
2:A:20:VAL:HG21	2:A:202:MET:CE	2.37	0.54
2:A:2283:ASN:HB2	2:A:2286:LEU:HB2	1.88	0.54
2:A:2439:GLU:OE2	2:A:2508:ARG:NH2	2.40	0.54
2:A:3416:VAL:HG21	2:A:3517:MET:CE	2.35	0.54
1:J:31:GLN:HG3	1:J:98:ILE:HD11	1.89	0.54
1:O:31:GLN:HB3	2:B:1299:GLN:OE1	2.07	0.54
2:G:1490:SER:OG	2:G:1491:ASN:N	2.40	0.54
2:G:2497:ASP:OD1	2:G:2498:HIS:N	2.40	0.54
2:G:3522:LEU:HD21	2:G:3603:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3768:SER:HA	2:G:3771:HIS:CE1	2.41	0.54
2:B:2894:LEU:CA	2:B:2897:LYS:HZ1	2.18	0.54
2:B:3274:LEU:HB2	2:B:3275:PRO:HD3	1.89	0.54
2:I:695:TYR:CD2	2:I:1240:LYS:HE3	2.43	0.54
2:I:2305:CYS:SG	2:I:2328:GLY:N	2.80	0.54
2:I:2472:LEU:HD23	2:I:2494:PHE:CZ	2.41	0.54
2:I:4967:TYR:CE2	2:I:5030:LYS:HG3	2.42	0.54
2:A:153:ALA:HB2	2:A:168:ASP:HB2	1.89	0.54
2:A:875:ALA:O	2:A:879:HIS:ND1	2.40	0.54
2:G:2029:GLN:NE2	2:G:2033:ASP:OD1	2.39	0.54
2:G:4967:TYR:CE2	2:G:5030:LYS:HG3	2.42	0.54
2:B:2031:LEU:HD11	2:B:3657:TYR:CE1	2.42	0.54
2:B:3768:SER:HA	2:B:3771:HIS:CE1	2.42	0.54
2:B:4655:PHE:CE2	2:B:4659:ILE:HD11	2.42	0.54
2:B:4700:GLN:OE1	2:B:4703:ARG:NH2	2.40	0.54
2:I:215:THR:C	2:I:274:LEU:CD1	2.75	0.54
2:I:870:ILE:HG13	2:I:874:LEU:HD23	1.89	0.54
2:I:4077:PHE:CE1	2:I:4097:MET:HE1	2.43	0.54
2:A:877:ASN:HA	2:A:970:LEU:H	1.73	0.54
2:A:1122:TYR:HE1	2:A:1133:HIS:CE1	2.26	0.54
2:A:4045:VAL:HB	2:A:4159:ARG:HH11	1.72	0.54
2:A:4976:GLU:O	2:A:4980:LEU:HD23	2.07	0.54
2:G:695:TYR:HD2	2:G:1240:LYS:HE3	1.71	0.54
2:G:3269:VAL:O	2:G:3274:LEU:HG	2.07	0.54
2:G:3274:LEU:HB2	2:G:3275:PRO:HD3	1.89	0.54
2:G:3320:LEU:O	2:G:3324:VAL:HG23	2.08	0.54
2:B:875:ALA:O	2:B:879:HIS:ND1	2.40	0.54
2:B:4077:PHE:CE1	2:B:4097:MET:HE1	2.43	0.54
2:I:3554:GLN:NE2	2:I:3593:VAL:HG11	2.22	0.54
1:F:31:GLN:HB3	2:A:1299:GLN:OE1	2.07	0.54
2:A:215:THR:C	2:A:274:LEU:CD1	2.75	0.54
2:A:2497:ASP:OD1	2:A:2498:HIS:N	2.40	0.54
2:G:128:THR:OG1	2:G:186:SER:OG	2.24	0.54
2:G:695:TYR:CD2	2:G:1240:LYS:HE3	2.43	0.54
2:G:1122:TYR:HE1	2:G:1133:HIS:CE1	2.26	0.54
2:G:4103:PHE:HB3	2:G:4107:GLU:HG3	1.88	0.54
2:G:4655:PHE:CE2	2:G:4659:ILE:HD11	2.42	0.54
2:G:4976:GLU:O	2:G:4980:LEU:HD23	2.07	0.54
2:B:695:TYR:CD2	2:B:1240:LYS:HE3	2.43	0.54
2:B:3553:LEU:HB2	2:B:3593:VAL:HG13	1.89	0.54
2:I:877:ASN:HA	2:I:970:LEU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1122:TYR:HE1	2:I:1133:HIS:CE1	2.26	0.54
2:I:3320:LEU:O	2:I:3324:VAL:HG23	2.08	0.54
2:A:495:ASN:HD22	2:A:550:LYS:HE3	1.71	0.54
2:A:695:TYR:CD2	2:A:1240:LYS:HE3	2.43	0.54
2:A:1638:ALA:HB1	2:A:1647:CYS:SG	2.47	0.54
2:A:2635:GLU:HA	2:A:2635:GLU:OE2	2.07	0.54
2:A:3227:ARG:HA	2:A:3232:LEU:CD1	2.37	0.54
2:A:4104:THR:HG22	2:A:4107:GLU:HG2	1.88	0.54
2:A:4636:THR:HG21	2:A:4639:MET:HE3	1.89	0.54
2:G:2653:LYS:HG3	2:G:2661:TRP:CD1	2.42	0.54
2:B:873:LYS:HG2	2:B:970:LEU:HD13	1.89	0.54
2:B:877:ASN:HA	2:B:970:LEU:H	1.73	0.54
2:B:3206:LEU:HD21	2:B:3276:MET:CE	2.37	0.54
2:I:664:PHE:HB3	2:I:811:CYS:SG	2.46	0.54
2:I:1490:SER:OG	2:I:1491:ASN:N	2.40	0.54
2:I:2497:ASP:OD1	2:I:2498:HIS:N	2.40	0.54
2:I:2697:ARG:HA	2:I:2700:MET:HE2	1.88	0.54
2:I:3262:ARG:HA	2:I:3326:ASN:OD1	2.08	0.54
2:I:4045:VAL:HB	2:I:4159:ARG:HH11	1.72	0.54
2:I:4809:PHE:O	2:I:4812:HIS:HB2	2.07	0.54
2:A:886:ARG:NE	2:A:904:HIS:HB2	2.22	0.54
2:A:2653:LYS:HG3	2:A:2661:TRP:CD1	2.42	0.54
2:G:877:ASN:HA	2:G:970:LEU:H	1.73	0.54
2:G:1478:ASP:OD1	2:G:1482:ASN:N	2.40	0.54
2:G:2635:GLU:HA	2:G:2635:GLU:OE2	2.07	0.54
2:G:4182:GLU:HB2	2:G:4983:HIS:HE2	1.73	0.54
2:B:695:TYR:HD2	2:B:1240:LYS:HE3	1.71	0.54
2:B:3067:CYS:O	2:B:3071:LEU:HD23	2.07	0.54
2:B:3227:ARG:HA	2:B:3232:LEU:CD1	2.37	0.54
2:I:2031:LEU:HD11	2:I:3657:TYR:CE1	2.42	0.54
2:I:2653:LYS:HG3	2:I:2661:TRP:CD1	2.42	0.54
2:I:2807:TRP:HB2	2:I:2808:PRO:HD3	1.89	0.54
2:I:3762:ARG:HH11	2:I:3762:ARG:HG3	1.73	0.54
1:H:31:GLN:HG3	1:H:98:ILE:HD11	1.89	0.54
2:G:2653:LYS:HB2	2:G:2657:LEU:HD12	1.89	0.54
2:G:4104:THR:HG22	2:G:4107:GLU:HG2	1.88	0.54
2:B:182:LEU:HD22	2:B:198:THR:HG21	1.90	0.54
2:B:1122:TYR:HE1	2:B:1133:HIS:CE1	2.26	0.54
2:B:3320:LEU:O	2:B:3324:VAL:HG23	2.08	0.54
2:B:4045:VAL:HB	2:B:4159:ARG:HH11	1.72	0.54
2:B:4092:ASP:CG	2:B:4095:LYS:HZ3	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:873:LYS:HG2	2:I:970:LEU:HD13	1.89	0.54
2:I:2369:ARG:NE	2:I:2369:ARG:HA	2.23	0.54
2:I:4963:ILE:HB	2:I:4968:PHE:HE2	1.71	0.54
2:A:1490:SER:OG	2:A:1491:ASN:N	2.40	0.54
2:A:2634:ASN:HD21	2:A:2636:PHE:HB2	1.72	0.54
2:A:4809:PHE:O	2:A:4812:HIS:HB2	2.07	0.54
2:A:4839:MET:CB	2:G:4823:LEU:HD11	2.35	0.54
2:G:182:LEU:HD22	2:G:198:THR:HG21	1.90	0.54
2:G:3227:ARG:HA	2:G:3232:LEU:CD1	2.37	0.54
2:G:3554:GLN:NE2	2:G:3593:VAL:HG11	2.22	0.54
2:G:3813:GLN:HB3	2:G:3899:PHE:CE2	2.43	0.54
2:B:2439:GLU:OE2	2:B:2508:ARG:NH2	2.40	0.54
2:B:3044:CYS:SG	2:B:3092:LEU:HD22	2.48	0.54
2:B:4103:PHE:HB3	2:B:4107:GLU:HG3	1.88	0.54
2:B:4796:MET:HE2	2:B:4800:LEU:HG	1.90	0.54
2:I:182:LEU:HD22	2:I:198:THR:HG21	1.90	0.54
2:I:2624:ARG:O	2:I:2627:VAL:HG22	2.08	0.54
2:I:3067:CYS:O	2:I:3071:LEU:HD23	2.08	0.54
2:I:3553:LEU:HB2	2:I:3593:VAL:HG13	1.89	0.54
2:A:664:PHE:HB3	2:A:811:CYS:SG	2.46	0.54
2:A:1985:THR:O	2:A:1986:MET:HG3	2.08	0.54
2:A:3813:GLN:HB3	2:A:3899:PHE:CE2	2.43	0.54
2:A:4967:TYR:CE2	2:A:5030:LYS:HG3	2.42	0.54
2:G:2369:ARG:HA	2:G:2369:ARG:NE	2.23	0.54
2:G:3107:VAL:HG22	2:G:3175:LEU:HD21	1.90	0.54
2:B:20:VAL:HG21	2:B:202:MET:CE	2.36	0.54
2:B:2098:VAL:CG2	2:B:2101:MET:HE2	2.38	0.54
2:I:3037:GLU:O	2:I:3040:THR:OG1	2.19	0.54
2:I:3157:ILE:HA	2:I:3161:VAL:CG2	2.38	0.54
2:A:182:LEU:HD22	2:A:198:THR:HG21	1.90	0.54
2:A:4735:GLU:OE1	2:A:4735:GLU:N	2.34	0.54
1:J:31:GLN:HA	1:J:98:ILE:HD11	1.90	0.54
2:G:153:ALA:HB2	2:G:168:ASP:HB2	1.89	0.54
2:G:2862:LEU:HD22	2:G:2929:PHE:HA	1.90	0.54
2:G:4077:PHE:CE1	2:G:4097:MET:HE1	2.43	0.54
2:B:2653:LYS:HB2	2:B:2657:LEU:HD12	1.89	0.54
2:A:1478:ASP:OD1	2:A:1482:ASN:N	2.40	0.53
2:A:2807:TRP:HB2	2:A:2808:PRO:HD3	1.90	0.53
2:A:3107:VAL:HG22	2:A:3175:LEU:HD21	1.90	0.53
2:A:3262:ARG:HA	2:A:3326:ASN:OD1	2.08	0.53
2:A:3274:LEU:HB2	2:A:3275:PRO:HD3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3320:LEU:O	2:A:3324:VAL:HG23	2.08	0.53
2:G:2307:LEU:HD11	2:G:2362:GLU:HB2	1.91	0.53
2:G:4636:THR:HG21	2:G:4639:MET:HE3	1.89	0.53
2:G:4735:GLU:OE1	2:G:4735:GLU:N	2.34	0.53
2:B:3107:VAL:HG22	2:B:3175:LEU:HD21	1.90	0.53
2:B:3262:ARG:HA	2:B:3326:ASN:OD1	2.08	0.53
2:I:2098:VAL:CG2	2:I:2101:MET:HE2	2.39	0.53
2:I:2653:LYS:HB2	2:I:2657:LEU:HD12	1.89	0.53
2:I:3813:GLN:HB3	2:I:3899:PHE:CE2	2.43	0.53
2:A:2964:LEU:CD2	2:A:3042:LEU:HD12	2.32	0.53
2:A:3044:CYS:SG	2:A:3092:LEU:HD22	2.48	0.53
2:A:4552:LEU:HA	2:A:4555:LEU:HD12	1.91	0.53
2:A:4677:LEU:HD21	2:A:4706:LEU:HD21	1.90	0.53
2:G:3067:CYS:O	2:G:3071:LEU:HD23	2.07	0.53
2:G:3281:LEU:CB	2:G:3312:LEU:HD21	2.37	0.53
2:G:3524:MET:HG3	2:G:3595:ARG:HD2	1.89	0.53
2:B:2862:LEU:HD22	2:B:2929:PHE:HA	1.90	0.53
2:B:3762:ARG:HG3	2:B:3762:ARG:HH11	1.73	0.53
2:B:3813:GLN:HB3	2:B:3899:PHE:CE2	2.43	0.53
2:I:2587:TYR:OH	2:I:2591:ARG:NH2	2.36	0.53
2:I:3529:ASP:OD2	2:I:3595:ARG:NH2	2.30	0.53
2:A:215:THR:C	2:A:274:LEU:HD11	2.29	0.53
2:A:706:GLY:N	2:A:709:ASP:OD2	2.31	0.53
2:A:2653:LYS:HB2	2:A:2657:LEU:HD12	1.89	0.53
2:A:4077:PHE:CE1	2:A:4097:MET:HE1	2.44	0.53
2:G:215:THR:C	2:G:274:LEU:HD11	2.29	0.53
2:G:1985:THR:O	2:G:1986:MET:HG3	2.08	0.53
2:G:3553:LEU:HB2	2:G:3593:VAL:HG13	1.89	0.53
2:G:4688:ILE:HD12	2:G:4737:ILE:HD12	1.91	0.53
2:B:2624:ARG:O	2:B:2627:VAL:HG22	2.08	0.53
2:B:4688:ILE:HD12	2:B:4737:ILE:HD12	1.91	0.53
2:A:4700:GLN:OE1	2:A:4703:ARG:NH2	2.40	0.53
1:O:31:GLN:HG3	1:O:98:ILE:HD11	1.89	0.53
2:G:1018:ASN:OD1	2:G:1019:PRO:HD2	2.09	0.53
2:G:2098:VAL:CG2	2:G:2101:MET:CE	2.79	0.53
2:G:2283:ASN:HB2	2:G:2286:LEU:HB2	1.88	0.53
2:G:2623:LEU:O	2:G:2627:VAL:HG13	2.08	0.53
2:G:2807:TRP:HB2	2:G:2808:PRO:HD3	1.90	0.53
2:G:3557:LEU:HD23	2:G:3557:LEU:H	1.74	0.53
2:G:3941:ASP:OD1	2:G:3942:VAL:N	2.42	0.53
2:B:2635:GLU:HA	2:B:2635:GLU:OE2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3157:ILE:HA	2:B:3161:VAL:CG2	2.38	0.53
2:I:2867:LEU:HD22	2:I:2928:LYS:HG2	1.89	0.53
2:I:3107:VAL:HG22	2:I:3175:LEU:HD21	1.90	0.53
2:I:3524:MET:HG3	2:I:3595:ARG:HD2	1.89	0.53
2:I:4182:GLU:HB2	2:I:4983:HIS:HE2	1.73	0.53
2:A:3524:MET:HG3	2:A:3595:ARG:HD2	1.89	0.53
2:G:229:GLU:N	2:G:229:GLU:OE1	2.42	0.53
2:G:2515:GLN:O	2:G:2519:LEU:HD12	2.09	0.53
2:G:3262:ARG:HA	2:G:3326:ASN:OD1	2.08	0.53
2:G:4552:LEU:HA	2:G:4555:LEU:HD12	1.90	0.53
2:G:4809:PHE:O	2:G:4812:HIS:HB2	2.07	0.53
2:B:2496:PRO:HD3	2:B:2546:MET:HE1	1.90	0.53
2:B:2623:LEU:O	2:B:2627:VAL:HG13	2.08	0.53
2:B:2656:CYS:HA	2:B:2711:PRO:HG3	1.91	0.53
2:B:3524:MET:HG3	2:B:3595:ARG:HD2	1.89	0.53
2:B:4128:PHE:HD1	2:B:4131:ARG:HH21	1.55	0.53
2:B:4677:LEU:HD21	2:B:4706:LEU:HD21	1.90	0.53
2:I:1076:ARG:NH2	2:I:1655:GLU:OE1	2.41	0.53
2:I:2307:LEU:HD11	2:I:2362:GLU:HB2	1.91	0.53
2:I:3227:ARG:HA	2:I:3232:LEU:CD1	2.37	0.53
2:I:4636:THR:HG21	2:I:4639:MET:HE3	1.89	0.53
2:A:2023:LEU:HD22	2:A:2027:ILE:HG21	1.91	0.53
2:A:2515:GLN:O	2:A:2519:LEU:HD12	2.09	0.53
2:A:2624:ARG:O	2:A:2627:VAL:HG22	2.08	0.53
2:A:3067:CYS:O	2:A:3071:LEU:HD23	2.08	0.53
2:A:3416:VAL:CG2	2:A:3517:MET:HE2	2.38	0.53
1:O:31:GLN:HA	1:O:98:ILE:HD11	1.91	0.53
2:G:981:GLN:OE1	2:G:981:GLN:N	2.41	0.53
2:G:2624:ARG:O	2:G:2627:VAL:HG22	2.08	0.53
2:G:2960:LEU:HA	2:G:2963:LEU:HD12	1.91	0.53
2:G:3044:CYS:SG	2:G:3092:LEU:HD22	2.48	0.53
2:G:4677:LEU:HD21	2:G:4706:LEU:HD21	1.90	0.53
2:B:215:THR:C	2:B:274:LEU:HD11	2.29	0.53
2:B:2960:LEU:HA	2:B:2963:LEU:HD12	1.91	0.53
2:I:1478:ASP:OD1	2:I:1482:ASN:N	2.40	0.53
2:I:2515:GLN:O	2:I:2519:LEU:HD12	2.09	0.53
2:I:2623:LEU:O	2:I:2627:VAL:HG13	2.08	0.53
2:I:3274:LEU:HB2	2:I:3275:PRO:HD3	1.89	0.53
2:A:283:ARG:NH1	2:A:290:TYR:OH	2.42	0.53
2:A:981:GLN:OE1	2:A:981:GLN:N	2.41	0.53
2:A:2960:LEU:HA	2:A:2963:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3414:ARG:HH11	2:A:3414:ARG:HG3	1.74	0.53
2:A:3553:LEU:HB2	2:A:3593:VAL:HG13	1.89	0.53
2:A:3557:LEU:HD23	2:A:3557:LEU:H	1.74	0.53
2:G:2023:LEU:HD22	2:G:2027:ILE:HG21	1.91	0.53
2:B:990:GLU:HG3	2:B:1024:TYR:CB	2.39	0.53
2:I:981:GLN:OE1	2:I:981:GLN:N	2.41	0.53
2:I:1018:ASN:OD1	2:I:1019:PRO:HD2	2.09	0.53
2:A:229:GLU:OE1	2:A:229:GLU:N	2.42	0.53
2:A:873:LYS:HG2	2:A:970:LEU:HD13	1.89	0.53
2:A:990:GLU:HG3	2:A:1024:TYR:CB	2.39	0.53
2:A:1076:ARG:NH2	2:A:1655:GLU:OE1	2.41	0.53
2:A:2867:LEU:HD22	2:A:2928:LYS:HG2	1.89	0.53
2:A:3218:VAL:HG23	2:A:3219:TYR:HD1	1.74	0.53
2:A:3281:LEU:CB	2:A:3312:LEU:HD21	2.37	0.53
2:A:3762:ARG:HH11	2:A:3762:ARG:HG3	1.73	0.53
2:A:4182:GLU:HB2	2:A:4983:HIS:HE2	1.73	0.53
2:G:721:LEU:HG	2:G:730:VAL:HG11	1.91	0.53
2:G:873:LYS:HG2	2:G:970:LEU:HD13	1.89	0.53
2:G:4128:PHE:HD1	2:G:4131:ARG:HH21	1.55	0.53
2:B:213:TYR:CD1	2:B:337:PRO:HB2	2.44	0.53
2:B:2023:LEU:HD22	2:B:2027:ILE:HG21	1.91	0.53
2:B:2307:LEU:HD11	2:B:2362:GLU:HB2	1.91	0.53
2:B:4182:GLU:HB2	2:B:4983:HIS:HE2	1.73	0.53
2:B:4563:ARG:NH1	2:B:4792:LEU:HD22	2.24	0.53
2:I:229:GLU:OE1	2:I:229:GLU:N	2.42	0.53
2:I:459:LEU:HD12	2:I:463:GLU:CG	2.34	0.53
2:I:1985:THR:O	2:I:1986:MET:HG3	2.08	0.53
2:I:2023:LEU:HD22	2:I:2027:ILE:HG21	1.91	0.53
2:I:3044:CYS:SG	2:I:3092:LEU:HD22	2.48	0.53
2:G:2966:TRP:HA	2:G:2969:ILE:HD12	1.91	0.53
2:G:3246:LEU:HD11	2:G:3281:LEU:HD21	1.91	0.53
2:G:3391:GLU:HA	2:G:3394:VAL:HG12	1.91	0.53
2:I:153:ALA:HB2	2:I:168:ASP:HB2	1.89	0.53
2:I:990:GLU:HG3	2:I:1024:TYR:CB	2.39	0.53
2:I:3391:GLU:HA	2:I:3394:VAL:HG12	1.91	0.53
2:A:3157:ILE:HA	2:A:3161:VAL:CG2	2.38	0.53
2:A:4563:ARG:NH1	2:A:4792:LEU:HD22	2.24	0.53
1:H:31:GLN:HA	1:H:98:ILE:HD11	1.91	0.53
2:B:1985:THR:O	2:B:1986:MET:HG3	2.08	0.53
2:B:2515:GLN:O	2:B:2519:LEU:HD12	2.09	0.53
2:B:4735:GLU:OE1	2:B:4735:GLU:N	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2966:TRP:HA	2:I:2969:ILE:HD12	1.91	0.53
2:A:2500:ALA:N	2:A:2553:TYR:CE1	2.72	0.52
2:G:2867:LEU:HD22	2:G:2928:LYS:HG2	1.89	0.52
2:G:4563:ARG:NH1	2:G:4792:LEU:HD22	2.24	0.52
2:B:62:LEU:HD21	2:B:267:ILE:HG23	1.91	0.52
2:B:1018:ASN:OD1	2:B:1019:PRO:HD2	2.09	0.52
2:B:2500:ALA:CA	2:B:2553:TYR:CE1	2.86	0.52
2:B:2867:LEU:HD22	2:B:2928:LYS:HG2	1.90	0.52
2:B:3557:LEU:HD23	2:B:3557:LEU:H	1.74	0.52
2:I:62:LEU:HD21	2:I:267:ILE:HG23	1.91	0.52
2:I:3941:ASP:OD1	2:I:3942:VAL:N	2.42	0.52
2:A:213:TYR:CD1	2:A:337:PRO:HB2	2.44	0.52
2:A:2992:GLU:HA	2:A:2995:ILE:HG12	1.92	0.52
2:A:3290:GLU:HG3	2:A:3309:SER:H	1.75	0.52
2:G:283:ARG:NH1	2:G:290:TYR:OH	2.42	0.52
2:G:990:GLU:HG3	2:G:1024:TYR:CB	2.39	0.52
2:G:3290:GLU:HG3	2:G:3309:SER:H	1.75	0.52
2:B:2807:TRP:HB2	2:B:2808:PRO:HD3	1.90	0.52
2:B:3290:GLU:HG3	2:B:3309:SER:H	1.75	0.52
2:B:3771:HIS:O	2:B:3815:LYS:NZ	2.38	0.52
2:I:213:TYR:CD1	2:I:337:PRO:HB2	2.44	0.52
2:I:3414:ARG:HH11	2:I:3414:ARG:HG3	1.74	0.52
2:A:2623:LEU:O	2:A:2627:VAL:HG13	2.08	0.52
2:A:2966:TRP:HA	2:A:2969:ILE:HD12	1.91	0.52
2:G:2656:CYS:HA	2:G:2711:PRO:HG3	1.91	0.52
2:G:2803:GLU:HA	2:G:2806:ARG:HB3	1.91	0.52
2:G:3281:LEU:HB3	2:G:3312:LEU:CD2	2.38	0.52
2:G:3414:ARG:HG3	2:G:3414:ARG:HH11	1.74	0.52
2:B:894:GLY:N	2:B:903:LEU:HD13	2.25	0.52
2:B:3414:ARG:HH11	2:B:3414:ARG:HG3	1.74	0.52
2:B:3529:ASP:OD2	2:B:3595:ARG:NH2	2.30	0.52
2:I:220:LEU:HB2	2:I:391:THR:O	2.10	0.52
2:I:2123:LEU:O	2:I:2127:GLN:HG2	2.09	0.52
2:I:2656:CYS:HA	2:I:2711:PRO:HG3	1.91	0.52
2:I:4677:LEU:HD21	2:I:4706:LEU:HD21	1.90	0.52
2:A:1653:LEU:O	2:A:1660:GLN:NE2	2.38	0.52
2:A:2307:LEU:HD11	2:A:2362:GLU:HB2	1.91	0.52
2:A:3402:CYS:HA	2:A:3405:LEU:HD12	1.92	0.52
2:A:4948:GLU:HA	2:A:4951:LYS:HG2	1.91	0.52
2:G:2540:THR:HG1	2:G:2541:PHE:HD2	1.58	0.52
2:G:3157:ILE:HA	2:G:3161:VAL:CG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4700:GLN:OE1	2:G:4703:ARG:NH2	2.40	0.52
2:B:981:GLN:OE1	2:B:981:GLN:N	2.41	0.52
2:B:3941:ASP:OD1	2:B:3942:VAL:N	2.42	0.52
2:B:4552:LEU:HA	2:B:4555:LEU:HD12	1.91	0.52
2:I:3290:GLU:HG3	2:I:3309:SER:H	1.75	0.52
2:I:4235:VAL:HG13	2:I:4989:MET:HG3	1.91	0.52
2:I:4563:ARG:NH1	2:I:4792:LEU:HD22	2.24	0.52
2:A:459:LEU:HD12	2:A:463:GLU:CG	2.34	0.52
2:A:2656:CYS:HA	2:A:2711:PRO:HG3	1.91	0.52
2:A:2862:LEU:HD22	2:A:2929:PHE:HA	1.90	0.52
2:A:2862:LEU:HB2	2:A:2929:PHE:CD2	2.45	0.52
2:A:3648:ARG:NH2	2:A:3862:ASP:OD2	2.42	0.52
2:G:894:GLY:N	2:G:903:LEU:HD13	2.25	0.52
2:G:2123:LEU:O	2:G:2127:GLN:HG2	2.09	0.52
2:G:2760:GLU:HG2	2:G:2797:PHE:CE2	2.44	0.52
2:G:2959:PHE:O	2:G:2963:LEU:HG	2.10	0.52
2:G:3762:ARG:HH11	2:G:3762:ARG:HG3	1.73	0.52
2:G:4235:VAL:HG13	2:G:4989:MET:HG3	1.91	0.52
2:B:232:THR:HG22	2:B:258:SER:HB3	1.92	0.52
2:B:283:ARG:NH1	2:B:290:TYR:OH	2.42	0.52
2:B:4104:THR:HG22	2:B:4107:GLU:CD	2.30	0.52
2:I:484:LEU:O	2:I:488:LEU:HG	2.10	0.52
2:I:3557:LEU:HD23	2:I:3557:LEU:H	1.74	0.52
2:A:220:LEU:HB2	2:A:391:THR:O	2.10	0.52
2:A:232:THR:HG22	2:A:258:SER:HB3	1.92	0.52
2:A:721:LEU:HG	2:A:730:VAL:HG11	1.91	0.52
2:A:2760:GLU:HG2	2:A:2797:PHE:CE2	2.44	0.52
2:A:3246:LEU:HD11	2:A:3281:LEU:HD21	1.91	0.52
2:A:3281:LEU:HB3	2:A:3312:LEU:CD2	2.38	0.52
2:A:3941:ASP:OD1	2:A:3942:VAL:N	2.42	0.52
2:G:232:THR:HG22	2:G:258:SER:HB3	1.92	0.52
2:G:3332:ALA:HB1	2:G:3334:TRP:CD1	2.45	0.52
2:G:3402:CYS:HA	2:G:3405:LEU:HD12	1.92	0.52
2:G:3416:VAL:HG21	2:G:3517:MET:CE	2.35	0.52
2:B:220:LEU:HD21	2:B:262:LEU:HG	1.92	0.52
2:B:706:GLY:N	2:B:709:ASP:OD2	2.31	0.52
2:B:2369:ARG:HA	2:B:2369:ARG:NE	2.23	0.52
2:B:2966:TRP:HA	2:B:2969:ILE:HD12	1.91	0.52
2:I:215:THR:C	2:I:274:LEU:HD11	2.29	0.52
2:I:220:LEU:HD21	2:I:262:LEU:HG	1.92	0.52
2:I:2960:LEU:HA	2:I:2963:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4128:PHE:HD1	2:I:4131:ARG:HH21	1.55	0.52
2:I:4791:TYR:CE1	2:I:4818:MET:HE1	2.36	0.52
2:A:2369:ARG:NE	2:A:2369:ARG:HA	2.23	0.52
2:A:3332:ALA:HB1	2:A:3334:TRP:CD1	2.45	0.52
2:A:3357:HIS:O	2:A:3361:THR:HG23	2.10	0.52
2:A:3391:GLU:HA	2:A:3394:VAL:HG12	1.91	0.52
2:G:1649:ASP:OD1	2:G:1650:ILE:N	2.43	0.52
2:G:2992:GLU:HA	2:G:2995:ILE:HG12	1.91	0.52
2:B:2894:LEU:HG	2:B:2897:LYS:HZ1	1.74	0.52
2:I:1996:ARG:NE	2:I:1996:ARG:HA	2.25	0.52
2:I:4552:LEU:HA	2:I:4555:LEU:HD12	1.90	0.52
2:A:2888:ARG:HA	2:A:2888:ARG:NE	2.25	0.52
2:A:3637:ARG:NH1	2:A:3638:MET:SD	2.83	0.52
2:G:213:TYR:CD1	2:G:337:PRO:HB2	2.44	0.52
2:G:484:LEU:O	2:G:488:LEU:HG	2.10	0.52
2:G:3416:VAL:CG2	2:G:3517:MET:HE2	2.38	0.52
2:G:4948:GLU:HA	2:G:4951:LYS:HG2	1.91	0.52
2:B:459:LEU:HD12	2:B:463:GLU:CG	2.34	0.52
2:B:2123:LEU:O	2:B:2127:GLN:HG2	2.09	0.52
2:B:3218:VAL:HG23	2:B:3219:TYR:HD1	1.74	0.52
2:B:3246:LEU:HD11	2:B:3281:LEU:HD21	1.91	0.52
2:B:3402:CYS:HA	2:B:3405:LEU:HD12	1.92	0.52
2:I:886:ARG:NE	2:I:904:HIS:HB2	2.22	0.52
2:I:893:TYR:HB3	2:I:960:MET:CE	2.40	0.52
2:I:2760:GLU:HG2	2:I:2797:PHE:CE2	2.44	0.52
2:I:2959:PHE:O	2:I:2963:LEU:HG	2.10	0.52
2:I:3332:ALA:HB1	2:I:3334:TRP:CD1	2.45	0.52
2:I:3648:ARG:NH2	2:I:3862:ASP:OD2	2.42	0.52
2:A:3045:LYS:O	2:A:3049:LEU:HD23	2.10	0.52
2:A:4077:PHE:HE1	2:A:4097:MET:CE	2.23	0.52
2:G:220:LEU:HB2	2:G:391:THR:O	2.10	0.52
2:G:3045:LYS:O	2:G:3049:LEU:HD23	2.10	0.52
2:G:3218:VAL:HG23	2:G:3219:TYR:HD1	1.74	0.52
2:B:229:GLU:OE1	2:B:229:GLU:N	2.42	0.52
2:B:867:LEU:HD13	2:B:929:LEU:HB3	1.92	0.52
2:B:1976:ARG:NH1	2:B:1997:GLU:OE1	2.26	0.52
2:B:1996:ARG:HA	2:B:1996:ARG:NE	2.25	0.52
2:B:3332:ALA:HB1	2:B:3334:TRP:CD1	2.45	0.52
2:B:4077:PHE:HE1	2:B:4097:MET:CE	2.23	0.52
2:I:894:GLY:N	2:I:903:LEU:HD13	2.25	0.52
2:I:2098:VAL:CG2	2:I:2101:MET:CE	2.79	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3955:MET:HE1	2:I:4016:LEU:HD13	1.92	0.52
2:A:752:VAL:O	2:A:753:PRO:C	2.40	0.52
2:A:1018:ASN:OD1	2:A:1019:PRO:HD2	2.09	0.52
2:A:4688:ILE:HD12	2:A:4737:ILE:HD12	1.91	0.52
2:G:1996:ARG:NE	2:G:1996:ARG:HA	2.25	0.52
2:G:3718:GLU:CD	2:G:3723:MET:HE1	2.29	0.52
2:B:886:ARG:NE	2:B:904:HIS:HB2	2.22	0.52
2:B:1649:ASP:OD1	2:B:1650:ILE:N	2.43	0.52
2:B:3045:LYS:O	2:B:3049:LEU:HD23	2.10	0.52
2:I:1649:ASP:OD1	2:I:1650:ILE:N	2.43	0.52
2:I:2862:LEU:HD22	2:I:2929:PHE:HA	1.91	0.52
2:I:3368:ARG:HB3	2:I:3401:LEU:HD11	1.92	0.52
2:I:3579:LEU:HB2	2:I:3582:ARG:HB2	1.92	0.52
2:I:4688:ILE:HD12	2:I:4737:ILE:HD12	1.91	0.52
2:A:62:LEU:HD21	2:A:267:ILE:HG23	1.91	0.51
2:A:484:LEU:O	2:A:488:LEU:HG	2.10	0.51
2:A:1649:ASP:OD1	2:A:1650:ILE:N	2.43	0.51
2:A:2932:MET:O	2:A:2934:GLY:N	2.43	0.51
2:G:2862:LEU:HB2	2:G:2929:PHE:CD2	2.45	0.51
2:G:3637:ARG:NH1	2:G:3638:MET:SD	2.83	0.51
2:B:893:TYR:HB3	2:B:960:MET:CE	2.40	0.51
2:B:2959:PHE:O	2:B:2963:LEU:HG	2.10	0.51
2:B:2992:GLU:HA	2:B:2995:ILE:HG12	1.92	0.51
2:I:232:THR:HG22	2:I:258:SER:HB3	1.92	0.51
2:I:283:ARG:NH1	2:I:290:TYR:OH	2.42	0.51
2:I:721:LEU:HG	2:I:730:VAL:HG11	1.91	0.51
2:I:1813:ARG:NH2	2:I:1817:GLU:OE2	2.43	0.51
2:I:4077:PHE:HE1	2:I:4097:MET:CE	2.23	0.51
1:F:31:GLN:HA	1:F:98:ILE:HD11	1.91	0.51
2:A:2123:LEU:O	2:A:2127:GLN:HG2	2.09	0.51
2:A:2624:ARG:NH2	2:A:2911:LEU:HA	2.25	0.51
2:G:62:LEU:HD21	2:G:267:ILE:HG23	1.91	0.51
2:G:2932:MET:O	2:G:2934:GLY:N	2.43	0.51
2:B:220:LEU:HB2	2:B:391:THR:O	2.10	0.51
2:B:484:LEU:O	2:B:488:LEU:HG	2.10	0.51
2:B:4948:GLU:HA	2:B:4951:LYS:HG2	1.91	0.51
2:I:3218:VAL:HG23	2:I:3219:TYR:HD1	1.74	0.51
2:I:3357:HIS:O	2:I:3361:THR:HG23	2.10	0.51
2:I:4104:THR:HG22	2:I:4107:GLU:CD	2.30	0.51
2:A:329:ARG:HA	2:A:329:ARG:NE	2.26	0.51
2:A:1996:ARG:NE	2:A:1996:ARG:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:893:TYR:HB3	2:G:960:MET:CE	2.40	0.51
2:G:3329:ILE:HG21	2:G:3332:ALA:HB3	1.93	0.51
2:G:4104:THR:HG22	2:G:4107:GLU:CD	2.30	0.51
2:B:748:LEU:HG	2:B:750:LEU:HG	1.93	0.51
2:B:2888:ARG:NE	2:B:2888:ARG:HA	2.25	0.51
2:B:2917:ALA:HA	2:B:2920:ARG:HB2	1.93	0.51
2:B:3357:HIS:O	2:B:3361:THR:HG23	2.10	0.51
2:B:3637:ARG:NH1	2:B:3638:MET:SD	2.83	0.51
2:B:4097:MET:HB3	2:B:4108:ILE:HG12	1.93	0.51
2:I:262:LEU:HB3	2:I:280:LEU:HD12	1.91	0.51
2:I:4092:ASP:CG	2:I:4095:LYS:HZ3	2.14	0.51
2:A:894:GLY:N	2:A:903:LEU:HD13	2.25	0.51
2:A:1155:LEU:HD22	2:A:1184:ILE:HG12	1.93	0.51
2:A:2959:PHE:O	2:A:2963:LEU:HG	2.10	0.51
2:A:3155:ASP:O	2:A:3155:ASP:OD1	2.29	0.51
2:A:4104:THR:HG22	2:A:4107:GLU:CD	2.30	0.51
2:G:974:HIS:HB2	2:G:976:ARG:NH2	2.26	0.51
2:G:2888:ARG:NE	2:G:2888:ARG:HA	2.25	0.51
2:G:2917:ALA:HA	2:G:2920:ARG:HB2	1.93	0.51
2:G:3843:ASP:OD1	2:G:3845:ASN:N	2.44	0.51
2:G:4077:PHE:HE1	2:G:4097:MET:CE	2.23	0.51
2:B:2862:LEU:HB2	2:B:2929:PHE:CD2	2.45	0.51
2:B:3329:ILE:HG21	2:B:3332:ALA:HB3	1.93	0.51
2:I:3099:ALA:HA	2:I:3136:LEU:HD11	1.93	0.51
2:I:3246:LEU:HD11	2:I:3281:LEU:HD21	1.91	0.51
2:A:3329:ILE:HG21	2:A:3332:ALA:HB3	1.93	0.51
2:G:984:LEU:HA	2:G:987:ARG:CZ	2.41	0.51
2:G:4097:MET:HB3	2:G:4108:ILE:HG12	1.93	0.51
2:B:2587:TYR:OH	2:B:2591:ARG:NH2	2.36	0.51
2:B:2760:GLU:HG2	2:B:2797:PHE:CE2	2.44	0.51
2:B:4235:VAL:HG13	2:B:4989:MET:HG3	1.91	0.51
2:I:974:HIS:HB2	2:I:976:ARG:NH2	2.26	0.51
2:I:2803:GLU:HA	2:I:2806:ARG:HB3	1.91	0.51
2:I:2932:MET:O	2:I:2934:GLY:N	2.43	0.51
2:I:3329:ILE:HG21	2:I:3332:ALA:HB3	1.93	0.51
2:I:3889:GLN:HG3	2:I:3967:GLU:HG3	1.93	0.51
2:A:984:LEU:HA	2:A:987:ARG:CZ	2.41	0.51
2:A:1813:ARG:NH2	2:A:1817:GLU:OE2	2.43	0.51
2:A:2917:ALA:HA	2:A:2920:ARG:HB2	1.93	0.51
2:A:3099:ALA:HA	2:A:3136:LEU:HD11	1.93	0.51
2:A:3579:LEU:HB2	2:A:3582:ARG:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:23:VAL:HG13	1:H:47:LYS:HG2	1.93	0.51
2:G:1653:LEU:O	2:G:1660:GLN:NE2	2.38	0.51
2:G:2771:ILE:HG21	2:G:2791:LEU:HG	1.93	0.51
2:G:3357:HIS:O	2:G:3361:THR:HG23	2.10	0.51
2:B:940:GLY:H	2:B:1052:ASN:H	1.59	0.51
2:B:1813:ARG:NH2	2:B:1817:GLU:OE2	2.43	0.51
2:B:2301:TYR:HB3	2:B:2331:TYR:CE2	2.46	0.51
2:B:2559:LEU:HB3	2:B:2606:CYS:SG	2.51	0.51
2:B:3155:ASP:OD1	2:B:3155:ASP:O	2.28	0.51
2:B:3391:GLU:HA	2:B:3394:VAL:HG12	1.91	0.51
2:B:3579:LEU:HB2	2:B:3582:ARG:HB2	1.92	0.51
2:B:3648:ARG:NH2	2:B:3862:ASP:OD2	2.41	0.51
2:B:3889:GLN:HG3	2:B:3967:GLU:HG3	1.93	0.51
2:I:2615:ARG:NH2	2:I:2618:MET:HE2	1.88	0.51
2:I:2917:ALA:HA	2:I:2920:ARG:HB2	1.93	0.51
2:I:3402:CYS:HA	2:I:3405:LEU:HD12	1.92	0.51
2:A:2803:GLU:HA	2:A:2806:ARG:HB3	1.91	0.51
2:A:3186:LEU:O	2:A:3188:PRO:HD2	2.11	0.51
2:A:3201:MET:HE3	2:A:3205:PHE:CD1	2.42	0.51
2:A:4204:GLN:HB3	2:A:4242:ILE:HD12	1.93	0.51
1:O:23:VAL:HG13	1:O:47:LYS:HG2	1.93	0.51
2:G:418:LEU:HD13	2:G:493:ARG:HB3	1.93	0.51
2:G:1813:ARG:NH2	2:G:1817:GLU:OE2	2.43	0.51
2:G:2624:ARG:NH2	2:G:2911:LEU:HA	2.25	0.51
2:G:3099:ALA:HA	2:G:3136:LEU:HD11	1.93	0.51
2:B:2321:ILE:HG13	2:B:2322:GLY:N	2.21	0.51
2:B:2750:LYS:HD3	2:B:2824:GLU:H	1.76	0.51
2:B:4204:GLN:HB3	2:B:4242:ILE:HD12	1.93	0.51
2:B:4856:PHE:O	2:B:4860:ARG:NH1	2.44	0.51
2:I:4204:GLN:HB3	2:I:4242:ILE:HD12	1.93	0.51
2:I:4948:GLU:HA	2:I:4951:LYS:HG2	1.91	0.51
2:A:209:CYS:SG	2:A:334:MET:HE1	2.50	0.51
2:A:262:LEU:HB3	2:A:280:LEU:HD12	1.91	0.51
2:A:279:PRO:HA	2:A:314:PHE:O	2.11	0.51
2:A:893:TYR:HB3	2:A:960:MET:CE	2.40	0.51
2:A:3376:GLU:OE2	2:A:3450:ASN:ND2	2.40	0.51
2:A:3771:HIS:O	2:A:3815:LYS:NZ	2.38	0.51
2:G:24:CYS:SG	2:G:200:TRP:CE3	3.04	0.51
2:G:329:ARG:NE	2:G:329:ARG:HA	2.26	0.51
2:G:2301:TYR:HB3	2:G:2331:TYR:CE2	2.46	0.51
2:G:3529:ASP:OD2	2:G:3595:ARG:NH2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3533:ILE:O	2:G:3537:LYS:HG2	2.11	0.51
2:G:3648:ARG:NH2	2:G:3862:ASP:OD2	2.41	0.51
2:B:227:MET:HE1	2:B:389:PHE:HD2	1.76	0.51
2:B:984:LEU:HA	2:B:987:ARG:CZ	2.41	0.51
2:B:1155:LEU:HD22	2:B:1184:ILE:HG12	1.93	0.51
2:B:2894:LEU:CB	2:B:2897:LYS:HZ1	2.23	0.51
2:B:3955:MET:HE1	2:B:4016:LEU:HD13	1.92	0.51
2:I:2301:TYR:HB3	2:I:2331:TYR:CE2	2.46	0.51
2:I:2626:LEU:HD13	2:I:2644:LEU:HD21	1.93	0.51
2:I:2668:SER:OG	2:I:2671:GLU:HB2	2.11	0.51
2:I:2862:LEU:HB2	2:I:2929:PHE:CD2	2.45	0.51
2:I:3533:ILE:O	2:I:3537:LYS:HG2	2.11	0.51
2:I:3637:ARG:NH1	2:I:3638:MET:SD	2.83	0.51
2:A:220:LEU:HD21	2:A:262:LEU:HG	1.92	0.51
2:A:418:LEU:HD13	2:A:493:ARG:HB3	1.93	0.51
2:A:748:LEU:HG	2:A:750:LEU:HG	1.92	0.51
2:A:2301:TYR:HB3	2:A:2331:TYR:CE2	2.46	0.51
2:A:2750:LYS:HD3	2:A:2824:GLU:H	1.76	0.51
2:A:3206:LEU:HD21	2:A:3276:MET:HE1	1.92	0.51
2:G:1155:LEU:HD22	2:G:1184:ILE:HG12	1.93	0.51
2:G:1259:ARG:NH1	2:G:1591:CYS:SG	2.84	0.51
2:G:1976:ARG:NH1	2:G:1997:GLU:OE1	2.26	0.51
2:G:2496:PRO:HD3	2:G:2546:MET:HE1	1.93	0.51
2:G:3368:ARG:HB3	2:G:3401:LEU:HD11	1.92	0.51
2:B:2713:ASP:OD1	2:B:3016:TYR:OH	2.12	0.51
2:I:883:ALA:HA	2:I:886:ARG:CZ	2.41	0.51
2:I:2500:ALA:N	2:I:2553:TYR:CE1	2.72	0.51
2:I:3155:ASP:OD1	2:I:3155:ASP:O	2.29	0.51
2:A:20:VAL:HG21	2:A:202:MET:HE2	1.92	0.51
2:A:2559:LEU:HB3	2:A:2606:CYS:SG	2.51	0.51
2:A:4735:GLU:O	2:A:4739:GLU:HG2	2.11	0.51
2:A:4856:PHE:O	2:A:4860:ARG:NH1	2.44	0.51
1:J:23:VAL:HG13	1:J:47:LYS:HG2	1.93	0.51
2:G:876:GLU:HA	2:G:879:HIS:HD1	1.76	0.51
2:G:2321:ILE:HG13	2:G:2322:GLY:N	2.21	0.51
2:G:3186:LEU:O	2:G:3188:PRO:HD2	2.11	0.51
2:B:974:HIS:HB2	2:B:976:ARG:NH2	2.26	0.51
2:B:2686:LEU:HG	2:B:2696:TYR:HE2	1.77	0.51
2:B:2771:ILE:HG21	2:B:2791:LEU:HG	1.93	0.51
2:I:940:GLY:H	2:I:1052:ASN:H	1.59	0.51
2:I:4856:PHE:O	2:I:4860:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:23:VAL:HG13	1:F:47:LYS:HG2	1.93	0.50
2:A:893:TYR:HA	2:A:903:LEU:O	2.11	0.50
2:A:2867:LEU:HD21	2:A:2927:LEU:HB3	1.93	0.50
2:A:3533:ILE:O	2:A:3537:LYS:HG2	2.11	0.50
2:A:3889:GLN:HG3	2:A:3967:GLU:HG3	1.93	0.50
2:A:4835:LYS:HE3	2:G:4822:THR:HG21	1.93	0.50
2:G:262:LEU:HB3	2:G:280:LEU:HD12	1.91	0.50
2:G:980:ALA:HB1	2:G:1055:PRO:HG3	1.94	0.50
2:G:1213:PHE:HD1	2:G:1216:ILE:HD12	1.77	0.50
2:G:2668:SER:OG	2:G:2671:GLU:HB2	2.11	0.50
2:G:3836:MET:HE3	2:G:3885:PHE:HZ	1.74	0.50
2:G:3844:LEU:HD21	2:G:3936:TYR:HB2	1.93	0.50
2:B:721:LEU:HG	2:B:730:VAL:HG11	1.91	0.50
2:B:3836:MET:HE3	2:B:3885:PHE:HZ	1.73	0.50
2:I:2992:GLU:HA	2:I:2995:ILE:HG12	1.92	0.50
2:A:941:MET:HB2	2:A:1051:TYR:CE1	2.47	0.50
2:A:4235:VAL:HG13	2:A:4989:MET:HG3	1.91	0.50
1:J:31:GLN:HE21	1:J:96:THR:CB	2.24	0.50
1:O:31:GLN:HE21	1:O:96:THR:CB	2.24	0.50
2:G:220:LEU:HD21	2:G:262:LEU:HG	1.92	0.50
2:G:459:LEU:HD12	2:G:463:GLU:CG	2.34	0.50
2:G:3376:GLU:OE2	2:G:3450:ASN:ND2	2.40	0.50
2:G:3579:LEU:HB2	2:G:3582:ARG:HB2	1.92	0.50
2:G:4204:GLN:HB3	2:G:4242:ILE:HD12	1.93	0.50
2:B:262:LEU:HB3	2:B:280:LEU:HD12	1.91	0.50
2:B:279:PRO:HA	2:B:314:PHE:O	2.11	0.50
2:B:941:MET:HB2	2:B:1051:TYR:CE1	2.47	0.50
2:B:2626:LEU:HD13	2:B:2644:LEU:HD21	1.93	0.50
2:B:2932:MET:O	2:B:2934:GLY:N	2.43	0.50
2:B:3843:ASP:OD1	2:B:3845:ASN:N	2.44	0.50
2:I:748:LEU:HG	2:I:750:LEU:HG	1.92	0.50
2:I:867:LEU:HD13	2:I:929:LEU:HB3	1.92	0.50
2:I:941:MET:HB2	2:I:1051:TYR:CE1	2.46	0.50
2:I:1155:LEU:HD22	2:I:1184:ILE:HG12	1.93	0.50
2:I:3033:ASN:O	2:I:3036:LYS:N	2.45	0.50
2:I:3281:LEU:HB3	2:I:3312:LEU:CD2	2.38	0.50
2:I:3844:LEU:HD21	2:I:3936:TYR:HB2	1.93	0.50
2:A:883:ALA:HA	2:A:886:ARG:CZ	2.41	0.50
2:A:974:HIS:HB2	2:A:976:ARG:NH2	2.26	0.50
2:A:3955:MET:HE1	2:A:4016:LEU:HD13	1.93	0.50
2:G:893:TYR:HA	2:G:903:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3037:GLU:HB3	2:G:3088:VAL:HG21	1.93	0.50
2:G:3172:ILE:HD13	2:G:3194:LEU:HB2	1.94	0.50
2:G:3850:GLN:HB2	2:G:3873:LYS:NZ	2.27	0.50
2:B:752:VAL:O	2:B:753:PRO:C	2.40	0.50
2:B:3099:ALA:HA	2:B:3136:LEU:HD11	1.93	0.50
2:B:3172:ILE:HD13	2:B:3194:LEU:HB2	1.94	0.50
2:B:3850:GLN:HB2	2:B:3873:LYS:NZ	2.27	0.50
2:I:209:CYS:SG	2:I:334:MET:HE1	2.52	0.50
2:I:279:PRO:HA	2:I:314:PHE:O	2.11	0.50
2:I:663:TYR:CD2	2:I:804:PRO:HB3	2.47	0.50
2:I:2888:ARG:HA	2:I:2888:ARG:NE	2.25	0.50
2:I:3045:LYS:O	2:I:3049:LEU:HD23	2.10	0.50
2:I:3850:GLN:HB2	2:I:3873:LYS:NZ	2.27	0.50
1:F:31:GLN:NE2	1:F:96:THR:HB	2.26	0.50
2:A:1259:ARG:NH1	2:A:1591:CYS:SG	2.84	0.50
2:A:2696:TYR:CD2	2:A:3001:ILE:HD11	2.47	0.50
2:A:3844:LEU:HD21	2:A:3936:TYR:HB2	1.93	0.50
1:H:31:GLN:HE21	1:H:96:THR:CB	2.24	0.50
2:G:3033:ASN:O	2:G:3036:LYS:N	2.45	0.50
2:G:4796:MET:HE3	2:G:4800:LEU:HG	1.89	0.50
2:B:842:PRO:O	2:B:1197:GLY:N	2.32	0.50
2:B:2624:ARG:NH2	2:B:2911:LEU:HA	2.25	0.50
2:B:2668:SER:OG	2:B:2671:GLU:HB2	2.11	0.50
2:B:2803:GLU:HA	2:B:2806:ARG:HB3	1.91	0.50
2:B:3844:LEU:HD21	2:B:3936:TYR:HB2	1.93	0.50
2:B:4735:GLU:O	2:B:4739:GLU:HG2	2.11	0.50
2:I:2771:ILE:HG21	2:I:2791:LEU:HG	1.93	0.50
2:I:3843:ASP:OD1	2:I:3845:ASN:N	2.44	0.50
2:I:4045:VAL:HG12	2:I:4159:ARG:CZ	2.40	0.50
2:A:2771:ILE:HG21	2:A:2791:LEU:HG	1.93	0.50
2:A:3346:VAL:HG21	2:A:3414:ARG:HB3	1.94	0.50
2:A:3368:ARG:HB3	2:A:3401:LEU:HD11	1.92	0.50
2:A:3709:ALA:HB2	2:A:3782:MET:SD	2.52	0.50
2:A:4865:LYS:HZ1	2:A:4901:ILE:HA	1.77	0.50
2:G:663:TYR:CD2	2:G:804:PRO:HB3	2.47	0.50
2:G:748:LEU:HG	2:G:750:LEU:HG	1.92	0.50
2:G:2559:LEU:HB3	2:G:2606:CYS:SG	2.51	0.50
2:G:3155:ASP:O	2:G:3155:ASP:OD1	2.29	0.50
2:G:3889:GLN:HG3	2:G:3967:GLU:HG3	1.93	0.50
2:B:883:ALA:HA	2:B:886:ARG:CZ	2.41	0.50
2:B:2951:ILE:H	2:B:2951:ILE:HD12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:329:ARG:HA	2:I:329:ARG:NE	2.26	0.50
2:I:984:LEU:HA	2:I:987:ARG:CZ	2.41	0.50
2:I:1259:ARG:NH1	2:I:1591:CYS:SG	2.84	0.50
2:A:980:ALA:HB1	2:A:1055:PRO:HG3	1.94	0.50
2:A:2626:LEU:HD13	2:A:2644:LEU:HD21	1.93	0.50
2:G:867:LEU:HD13	2:G:929:LEU:HB3	1.92	0.50
2:G:883:ALA:HA	2:G:886:ARG:CZ	2.41	0.50
2:G:2951:ILE:H	2:G:2951:ILE:HD12	1.77	0.50
2:G:3080:VAL:CG1	2:G:3081:MET:HE3	2.36	0.50
2:G:4856:PHE:O	2:G:4860:ARG:NH1	2.44	0.50
2:B:2527:LEU:HD12	2:B:2530:MET:CE	2.42	0.50
2:B:3281:LEU:HB3	2:B:3312:LEU:CD2	2.38	0.50
2:B:3368:ARG:HB3	2:B:3401:LEU:HD11	1.92	0.50
2:B:3416:VAL:CG2	2:B:3517:MET:HE1	2.41	0.50
2:I:876:GLU:HA	2:I:879:HIS:HD1	1.76	0.50
2:I:893:TYR:HA	2:I:903:LEU:O	2.11	0.50
2:I:1976:ARG:NH1	2:I:1997:GLU:OE1	2.26	0.50
2:I:2750:LYS:HD3	2:I:2824:GLU:H	1.76	0.50
2:A:24:CYS:SG	2:A:200:TRP:CE3	3.04	0.50
2:A:2630:VAL:HG13	2:A:2682:ILE:HD11	1.94	0.50
2:A:3005:LEU:HD12	2:A:3008:GLN:NE2	2.27	0.50
2:A:3037:GLU:HB3	2:A:3088:VAL:HG21	1.93	0.50
2:A:3595:ARG:O	2:A:3598:GLU:HG2	2.12	0.50
2:A:4097:MET:HB3	2:A:4108:ILE:HG12	1.93	0.50
2:G:984:LEU:HA	2:G:987:ARG:NH1	2.27	0.50
2:G:1676:LEU:HD22	2:G:2167:ILE:HD12	1.94	0.50
2:G:3327:LEU:CD1	2:G:3368:ARG:NH2	2.71	0.50
2:G:3984:ARG:NH1	2:G:3987:ASP:OD2	2.27	0.50
2:B:980:ALA:HB1	2:B:1055:PRO:HG3	1.94	0.50
2:B:984:LEU:HA	2:B:987:ARG:NH1	2.27	0.50
2:A:2496:PRO:HD3	2:A:2546:MET:HE1	1.94	0.50
2:A:3850:GLN:HB2	2:A:3873:LYS:NZ	2.27	0.50
1:J:31:GLN:HB3	2:I:1299:GLN:OE1	2.12	0.50
2:G:279:PRO:HA	2:G:314:PHE:O	2.11	0.50
2:G:2762:THR:O	2:G:2766:TRP:N	2.35	0.50
2:G:3080:VAL:HG12	2:G:3081:MET:HE2	1.92	0.50
2:G:3595:ARG:O	2:G:3598:GLU:HG2	2.12	0.50
2:B:329:ARG:NE	2:B:329:ARG:HA	2.26	0.50
2:B:509:GLU:N	2:B:509:GLU:OE2	2.45	0.50
2:B:876:GLU:HA	2:B:879:HIS:HD1	1.76	0.50
2:B:877:ASN:ND2	2:B:970:LEU:HB3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4072:VAL:HG13	2:B:4125:PHE:HD2	1.76	0.50
2:I:2527:LEU:HD12	2:I:2530:MET:CE	2.42	0.50
2:I:2696:TYR:CD2	2:I:3001:ILE:HD11	2.47	0.50
2:I:3172:ILE:HD13	2:I:3194:LEU:HB2	1.94	0.50
2:A:227:MET:HE3	2:A:389:PHE:CD2	2.47	0.50
2:A:932:LEU:HD22	2:A:984:LEU:HD21	1.94	0.50
2:A:2527:LEU:HD12	2:A:2530:MET:CE	2.42	0.50
2:A:2668:SER:OG	2:A:2671:GLU:HB2	2.11	0.50
2:A:3172:ILE:HD13	2:A:3194:LEU:HB2	1.94	0.50
1:O:31:GLN:NE2	1:O:96:THR:HB	2.26	0.50
2:G:877:ASN:ND2	2:G:970:LEU:HB3	2.27	0.50
2:G:940:GLY:H	2:G:1052:ASN:H	1.59	0.50
2:G:2686:LEU:HG	2:G:2696:TYR:HE2	1.77	0.50
2:G:2867:LEU:HD21	2:G:2927:LEU:HB3	1.93	0.50
2:B:2696:TYR:CD2	2:B:3001:ILE:HD11	2.47	0.50
2:B:3033:ASN:O	2:B:3036:LYS:N	2.45	0.50
2:B:3595:ARG:O	2:B:3598:GLU:HG2	2.12	0.50
2:I:418:LEU:HD13	2:I:493:ARG:HB3	1.93	0.50
2:I:2559:LEU:HB3	2:I:2606:CYS:SG	2.51	0.50
2:I:2624:ARG:NH2	2:I:2911:LEU:HA	2.25	0.50
2:I:3158:LEU:HD23	2:I:3159:ASP:H	1.77	0.50
2:I:3186:LEU:O	2:I:3188:PRO:HD2	2.11	0.50
2:I:3595:ARG:O	2:I:3598:GLU:HG2	2.12	0.50
2:I:4072:VAL:HG13	2:I:4125:PHE:HD2	1.77	0.50
2:I:4233:LEU:HD11	2:I:4679:ARG:HH22	1.77	0.50
2:A:1213:PHE:HD1	2:A:1216:ILE:HD12	1.77	0.49
2:A:3033:ASN:O	2:A:3036:LYS:N	2.45	0.49
2:G:2527:LEU:HA	2:G:2530:MET:HE2	1.94	0.49
2:G:2527:LEU:HD12	2:G:2530:MET:CE	2.42	0.49
2:G:3158:LEU:HD23	2:G:3159:ASP:H	1.77	0.49
2:G:4735:GLU:O	2:G:4739:GLU:HG2	2.11	0.49
2:B:663:TYR:CD2	2:B:804:PRO:HB3	2.47	0.49
2:B:878:ILE:HD11	2:B:925:SER:HB2	1.94	0.49
2:B:1213:PHE:HD1	2:B:1216:ILE:HD12	1.77	0.49
2:B:1259:ARG:NH1	2:B:1591:CYS:SG	2.84	0.49
2:B:2750:LYS:NZ	2:B:2824:GLU:OE1	2.37	0.49
2:B:3533:ILE:O	2:B:3537:LYS:HG2	2.11	0.49
2:I:2496:PRO:HD3	2:I:2546:MET:HE1	1.93	0.49
2:I:2686:LEU:HG	2:I:2696:TYR:HE2	1.76	0.49
2:I:4097:MET:HB3	2:I:4108:ILE:HG12	1.93	0.49
2:A:984:LEU:HA	2:A:987:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2469:ILE:CB	2:A:2502:MET:CE	2.89	0.49
2:A:2863:SER:OG	2:A:2925:GLU:OE2	2.30	0.49
2:A:3080:VAL:CG1	2:A:3081:MET:HE3	2.35	0.49
2:G:2500:ALA:N	2:G:2553:TYR:CE1	2.72	0.49
2:G:2750:LYS:HD3	2:G:2824:GLU:H	1.76	0.49
2:I:227:MET:HE3	2:I:389:PHE:CD2	2.47	0.49
2:I:2540:THR:HG1	2:I:2541:PHE:HD2	1.59	0.49
1:F:31:GLN:HE21	1:F:96:THR:CB	2.24	0.49
2:A:663:TYR:CD2	2:A:804:PRO:HB3	2.47	0.49
2:A:2641:LEU:HD12	2:A:2698:MET:HB3	1.93	0.49
2:A:3971:GLY:O	2:A:3973:CYS:N	2.45	0.49
2:G:3346:VAL:HG21	2:G:3414:ARG:HB3	1.94	0.49
2:B:2469:ILE:CB	2:B:2502:MET:CE	2.89	0.49
2:B:2985:ARG:HG2	2:B:2987:GLU:H	1.77	0.49
2:B:3186:LEU:O	2:B:3188:PRO:HD2	2.11	0.49
2:I:1653:LEU:O	2:I:1660:GLN:NE2	2.38	0.49
2:I:2321:ILE:HG13	2:I:2322:GLY:N	2.21	0.49
2:I:2630:VAL:HG13	2:I:2682:ILE:HD11	1.94	0.49
2:I:2641:LEU:HD12	2:I:2698:MET:HB3	1.93	0.49
2:I:3194:LEU:HD21	2:I:3276:MET:HB2	1.94	0.49
2:A:2951:ILE:H	2:A:2951:ILE:HD12	1.77	0.49
2:A:2985:ARG:HG2	2:A:2987:GLU:H	1.77	0.49
1:H:31:GLN:NE2	1:H:96:THR:HB	2.26	0.49
2:G:2696:TYR:CD2	2:G:3001:ILE:HD11	2.47	0.49
2:G:3709:ALA:HB2	2:G:3782:MET:SD	2.52	0.49
2:G:3771:HIS:O	2:G:3815:LYS:NZ	2.38	0.49
2:G:4233:LEU:HD11	2:G:4679:ARG:HH22	1.77	0.49
2:B:893:TYR:HA	2:B:903:LEU:O	2.11	0.49
2:I:877:ASN:ND2	2:I:970:LEU:HB3	2.27	0.49
2:I:984:LEU:HA	2:I:987:ARG:NH1	2.27	0.49
2:I:2867:LEU:HD21	2:I:2927:LEU:HB3	1.93	0.49
2:I:2951:ILE:H	2:I:2951:ILE:HD12	1.77	0.49
2:I:3187:ARG:HH12	2:I:3267:PRO:CB	2.26	0.49
2:I:3851:ASN:OD1	2:I:3946:GLN:NE2	2.46	0.49
2:A:1105:ALA:HB1	2:A:1109:LEU:HD22	1.95	0.49
2:A:2186:MET:O	2:A:2192:TYR:OH	2.22	0.49
2:A:2575:ARG:HH11	2:A:2578:MET:HE3	1.55	0.49
2:G:509:GLU:N	2:G:509:GLU:OE2	2.45	0.49
2:G:835:ARG:NH1	2:G:1210:SER:O	2.46	0.49
2:G:2641:LEU:HD12	2:G:2698:MET:HB3	1.93	0.49
2:G:2894:LEU:CA	2:G:2897:LYS:HZ1	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3594:ARG:NH2	2:G:3598:GLU:OE1	2.46	0.49
2:G:3767:GLN:OE1	2:G:3809:ASN:ND2	2.46	0.49
2:B:2863:SER:OG	2:B:2925:GLU:OE2	2.30	0.49
2:B:2867:LEU:HD21	2:B:2927:LEU:HB3	1.93	0.49
2:B:3158:LEU:HD23	2:B:3159:ASP:H	1.77	0.49
2:I:1676:LEU:HD22	2:I:2167:ILE:HD12	1.94	0.49
2:I:2863:SER:OG	2:I:2925:GLU:OE2	2.30	0.49
2:I:3709:ALA:HB2	2:I:3782:MET:SD	2.52	0.49
2:A:509:GLU:OE2	2:A:509:GLU:N	2.45	0.49
2:A:867:LEU:HD13	2:A:929:LEU:HB3	1.92	0.49
2:A:1676:LEU:HD22	2:A:2167:ILE:HD12	1.94	0.49
2:A:2575:ARG:NH1	2:A:2578:MET:SD	2.76	0.49
2:A:2644:LEU:O	2:A:2648:TYR:CD2	2.66	0.49
2:A:2929:PHE:HB2	2:A:2932:MET:SD	2.53	0.49
2:A:3327:LEU:HD21	2:A:3364:ARG:HH12	1.75	0.49
2:A:3718:GLU:CD	2:A:3723:MET:HE1	2.33	0.49
2:A:3843:ASP:OD1	2:A:3845:ASN:N	2.44	0.49
2:G:941:MET:HB2	2:G:1051:TYR:CE1	2.46	0.49
2:G:1105:ALA:HB1	2:G:1109:LEU:HD22	1.94	0.49
2:G:2626:LEU:HD13	2:G:2644:LEU:HD21	1.93	0.49
2:G:2630:VAL:HG13	2:G:2682:ILE:HD11	1.94	0.49
2:G:2802:LYS:O	2:G:2806:ARG:HB2	2.13	0.49
2:G:2929:PHE:HB2	2:G:2932:MET:SD	2.53	0.49
2:G:3005:LEU:HD12	2:G:3008:GLN:NE2	2.27	0.49
2:B:418:LEU:HD13	2:B:493:ARG:HB3	1.93	0.49
2:B:3005:LEU:HD12	2:B:3008:GLN:NE2	2.27	0.49
2:B:3599:VAL:O	2:B:3603:LEU:HD23	2.13	0.49
2:B:3709:ALA:HB2	2:B:3782:MET:SD	2.52	0.49
2:I:1213:PHE:HD1	2:I:1216:ILE:HD12	1.77	0.49
2:I:2186:MET:O	2:I:2192:TYR:OH	2.22	0.49
2:I:3346:VAL:HG21	2:I:3414:ARG:HB3	1.94	0.49
2:I:3416:VAL:CG2	2:I:3517:MET:HE2	2.37	0.49
2:I:3594:ARG:NH2	2:I:3598:GLU:OE1	2.46	0.49
2:I:3971:GLY:O	2:I:3973:CYS:N	2.45	0.49
2:A:209:CYS:SG	2:A:334:MET:CE	3.01	0.49
2:A:3767:GLN:OE1	2:A:3809:ASN:ND2	2.46	0.49
2:G:1926:LEU:HD13	2:G:1939:MET:SD	2.53	0.49
2:G:2863:SER:OG	2:G:2925:GLU:OE2	2.30	0.49
2:G:2985:ARG:HG2	2:G:2987:GLU:H	1.78	0.49
2:B:835:ARG:NH1	2:B:1210:SER:O	2.46	0.49
2:I:227:MET:HE1	2:I:389:PHE:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3599:VAL:O	2:I:3603:LEU:HD23	2.13	0.49
2:I:3776:ALA:HB1	2:I:3816:MET:HG2	1.94	0.49
2:I:4735:GLU:O	2:I:4739:GLU:HG2	2.11	0.49
2:A:972:LEU:HD11	2:A:975:VAL:HG21	1.95	0.49
2:A:3158:LEU:HD23	2:A:3159:ASP:H	1.77	0.49
2:G:183:SER:O	2:G:183:SER:OG	2.28	0.49
2:G:2469:ILE:CB	2:G:2502:MET:CE	2.89	0.49
2:G:3327:LEU:HD21	2:G:3364:ARG:HH12	1.75	0.49
2:G:3851:ASN:OD1	2:G:3946:GLN:NE2	2.46	0.49
2:G:3955:MET:HE1	2:G:4016:LEU:HD13	1.93	0.49
2:G:4072:VAL:HG13	2:G:4125:PHE:HD2	1.77	0.49
2:G:4251:ILE:HG13	2:G:4252:SER:N	2.28	0.49
2:B:552:ASP:O	2:B:554:LEU:HD12	2.13	0.49
2:B:919:ASN:HA	2:B:922:LEU:HD13	1.95	0.49
2:B:2641:LEU:HD12	2:B:2698:MET:HB3	1.93	0.49
2:B:3327:LEU:CD1	2:B:3368:ARG:NH2	2.71	0.49
2:B:3851:ASN:OD1	2:B:3946:GLN:NE2	2.46	0.49
2:B:4885:PHE:O	2:B:4889:VAL:HG22	2.13	0.49
2:I:980:ALA:HB1	2:I:1055:PRO:HG3	1.94	0.49
2:I:4586:PRO:HG3	2:I:4629:TYR:CE2	2.48	0.49
2:A:876:GLU:HA	2:A:879:HIS:HD1	1.76	0.49
2:G:972:LEU:HD11	2:G:975:VAL:HG21	1.95	0.49
2:G:1076:ARG:NH2	2:G:1655:GLU:OE1	2.41	0.49
2:G:1455:PRO:HB3	2:G:1549:PHE:HE2	1.78	0.49
2:G:3194:LEU:HD21	2:G:3276:MET:HB2	1.94	0.49
2:G:3524:MET:SD	2:G:3595:ARG:HG3	2.53	0.49
2:G:3768:SER:O	2:G:3772:THR:OG1	2.21	0.49
2:B:209:CYS:SG	2:B:334:MET:HE1	2.52	0.49
2:B:316:PHE:CE1	2:B:348:VAL:HG22	2.48	0.49
2:B:1076:ARG:NH2	2:B:1655:GLU:OE1	2.41	0.49
2:B:1455:PRO:HB3	2:B:1549:PHE:HE2	1.78	0.49
2:B:2500:ALA:N	2:B:2553:TYR:CE1	2.72	0.49
2:B:2595:LEU:HD22	2:B:2599:GLN:NE2	2.27	0.49
2:B:3037:GLU:HB3	2:B:3088:VAL:HG21	1.94	0.49
2:B:3050:VAL:O	2:B:3050:VAL:CG1	2.61	0.49
2:I:209:CYS:SG	2:I:334:MET:CE	3.01	0.49
2:I:1186:ASP:OD1	2:I:1186:ASP:N	2.45	0.49
2:A:316:PHE:CE1	2:A:348:VAL:HG22	2.48	0.49
2:A:919:ASN:HA	2:A:922:LEU:HD13	1.95	0.49
2:A:3050:VAL:O	2:A:3050:VAL:CG1	2.61	0.49
2:A:3194:LEU:HD21	2:A:3276:MET:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4233:LEU:HD11	2:A:4679:ARG:HH22	1.77	0.49
2:A:4885:PHE:O	2:A:4889:VAL:HG22	2.13	0.49
1:J:31:GLN:NE2	1:J:96:THR:HB	2.27	0.49
2:G:209:CYS:SG	2:G:334:MET:HE1	2.53	0.49
2:G:3445:TRP:CH2	2:G:3452:LYS:HA	2.48	0.49
2:G:4721:LYS:NZ	2:G:4741:LEU:O	2.44	0.49
2:B:1676:LEU:HD22	2:B:2167:ILE:HD12	1.94	0.49
2:B:3145:GLN:O	2:B:3149:GLN:HG2	2.13	0.49
2:B:3187:ARG:HH12	2:B:3267:PRO:CB	2.26	0.49
2:B:4045:VAL:HG12	2:B:4159:ARG:CZ	2.40	0.49
2:B:4251:ILE:HG13	2:B:4252:SER:N	2.28	0.49
2:I:158:SER:O	2:I:161:GLU:HG2	2.13	0.49
2:I:651:GLY:N	2:I:658:GLN:OE1	2.46	0.49
2:I:730:VAL:HG12	2:I:1476:MET:SD	2.53	0.49
2:I:4885:PHE:O	2:I:4889:VAL:HG22	2.13	0.49
1:F:31:GLN:NE2	1:F:96:THR:HG21	2.28	0.48
2:A:1455:PRO:HB3	2:A:1549:PHE:HE2	1.78	0.48
2:A:1926:LEU:HD13	2:A:1939:MET:SD	2.53	0.48
2:A:3034:LYS:O	2:A:3038:MET:HG3	2.13	0.48
2:G:209:CYS:SG	2:G:334:MET:CE	3.01	0.48
2:G:878:ILE:HD11	2:G:925:SER:HB2	1.94	0.48
2:G:2644:LEU:O	2:G:2648:TYR:CD2	2.66	0.48
2:G:2967:MET:HE3	2:G:3045:LYS:CE	2.38	0.48
2:G:4045:VAL:HG12	2:G:4159:ARG:CZ	2.40	0.48
2:B:2630:VAL:HG13	2:B:2682:ILE:HD11	1.94	0.48
2:B:3194:LEU:HD21	2:B:3276:MET:HB2	1.94	0.48
2:B:3715:LYS:HD2	2:B:3715:LYS:C	2.34	0.48
2:B:3767:GLN:OE1	2:B:3809:ASN:ND2	2.46	0.48
2:I:932:LEU:HD22	2:I:984:LEU:HD21	1.94	0.48
2:I:2323:TRP:CZ3	2:I:2325:PRO:HB3	2.48	0.48
2:I:2644:LEU:O	2:I:2648:TYR:CD2	2.66	0.48
2:A:158:SER:O	2:A:161:GLU:HG2	2.13	0.48
2:A:940:GLY:H	2:A:1052:ASN:H	1.59	0.48
2:A:2323:TRP:CZ3	2:A:2325:PRO:HB3	2.48	0.48
2:A:3715:LYS:HD2	2:A:3715:LYS:C	2.34	0.48
2:A:4104:THR:CG2	2:A:4107:GLU:HG2	2.43	0.48
2:A:4582:VAL:HG12	2:B:4877:ASP:O	2.13	0.48
2:G:767:VAL:HG12	2:G:769:GLU:HG3	1.96	0.48
2:G:3715:LYS:HD2	2:G:3715:LYS:C	2.34	0.48
2:B:209:CYS:SG	2:B:334:MET:CE	3.01	0.48
2:B:215:THR:HA	2:B:274:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2644:LEU:O	2:B:2648:TYR:CD2	2.66	0.48
2:B:2929:PHE:HB2	2:B:2932:MET:SD	2.53	0.48
2:B:3034:LYS:O	2:B:3038:MET:HG3	2.13	0.48
2:B:3445:TRP:CH2	2:B:3452:LYS:HA	2.48	0.48
2:B:3701:LEU:HD21	2:B:3725:TYR:CD1	2.49	0.48
2:B:4233:LEU:HD11	2:B:4679:ARG:HH22	1.77	0.48
2:I:1455:PRO:HB3	2:I:1549:PHE:HE2	1.78	0.48
2:I:2802:LYS:O	2:I:2806:ARG:HB2	2.13	0.48
2:I:3037:GLU:HB3	2:I:3088:VAL:HG21	1.93	0.48
2:I:3201:MET:HE3	2:I:3205:PHE:CD1	2.43	0.48
2:I:3445:TRP:CH2	2:I:3452:LYS:HA	2.49	0.48
2:A:227:MET:HE1	2:A:389:PHE:HD2	1.77	0.48
2:A:842:PRO:O	2:A:1197:GLY:N	2.32	0.48
2:A:2624:ARG:HG3	2:A:2910:THR:HG22	1.96	0.48
2:A:2686:LEU:HG	2:A:2696:TYR:HE2	1.76	0.48
2:A:2862:LEU:HB2	2:A:2929:PHE:CE2	2.48	0.48
2:A:3524:MET:SD	2:A:3595:ARG:HG3	2.53	0.48
2:A:3776:ALA:HB1	2:A:3816:MET:HG2	1.94	0.48
2:G:158:SER:O	2:G:161:GLU:HG2	2.13	0.48
2:G:2765:LYS:HA	2:G:2860:PRO:HD2	1.95	0.48
2:G:3050:VAL:O	2:G:3050:VAL:CG1	2.61	0.48
2:G:3081:MET:HE1	2:G:3089:LYS:HA	1.95	0.48
2:G:3599:VAL:O	2:G:3603:LEU:HD23	2.13	0.48
2:G:3836:MET:CE	2:G:3885:PHE:CZ	2.86	0.48
2:B:893:TYR:HB3	2:B:960:MET:HE1	1.94	0.48
2:B:972:LEU:HD11	2:B:975:VAL:HG21	1.95	0.48
2:B:1653:LEU:O	2:B:1660:GLN:NE2	2.38	0.48
2:B:2802:LYS:O	2:B:2806:ARG:HB2	2.13	0.48
2:B:3368:ARG:NH2	2:B:3404:ASP:OD2	2.46	0.48
2:B:3594:ARG:NH2	2:B:3598:GLU:OE1	2.46	0.48
2:I:640:TYR:HD2	2:I:1634:LEU:HB3	1.78	0.48
2:I:2765:LYS:HA	2:I:2860:PRO:HD2	1.96	0.48
2:I:3005:LEU:HD12	2:I:3008:GLN:NE2	2.27	0.48
2:I:3145:GLN:O	2:I:3149:GLN:HG2	2.13	0.48
2:I:3767:GLN:OE1	2:I:3809:ASN:ND2	2.46	0.48
2:A:730:VAL:HG12	2:A:1476:MET:SD	2.53	0.48
2:A:835:ARG:NH1	2:A:1210:SER:O	2.46	0.48
2:A:2742:THR:HG23	2:A:2743:LEU:HG	1.95	0.48
2:A:3599:VAL:O	2:A:3603:LEU:HD23	2.13	0.48
2:A:3836:MET:CE	2:A:3885:PHE:CZ	2.86	0.48
1:J:31:GLN:NE2	1:J:96:THR:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:31:GLN:NE2	1:O:96:THR:HG21	2.28	0.48
2:G:730:VAL:HG12	2:G:1476:MET:SD	2.53	0.48
2:G:2469:ILE:CG2	2:G:2502:MET:SD	3.02	0.48
2:G:2624:ARG:HG3	2:G:2910:THR:HG22	1.96	0.48
2:G:4104:THR:CG2	2:G:4107:GLU:HG2	2.43	0.48
2:G:4885:PHE:O	2:G:4889:VAL:HG22	2.13	0.48
2:B:2742:THR:HG23	2:B:2743:LEU:HG	1.96	0.48
2:B:2862:LEU:HB2	2:B:2929:PHE:CE2	2.48	0.48
2:B:3247:ASP:OD1	2:B:3248:ARG:N	2.47	0.48
2:I:317:ARG:NH1	2:I:323:LEU:H	2.12	0.48
2:I:3050:VAL:O	2:I:3050:VAL:CG1	2.61	0.48
2:I:3524:MET:SD	2:I:3595:ARG:HG3	2.53	0.48
2:A:878:ILE:HD11	2:A:925:SER:HB2	1.94	0.48
2:A:2765:LYS:HA	2:A:2860:PRO:HD2	1.96	0.48
2:A:3445:TRP:CH2	2:A:3452:LYS:HA	2.48	0.48
2:A:3851:ASN:OD1	2:A:3946:GLN:NE2	2.46	0.48
2:G:3145:GLN:O	2:G:3149:GLN:HG2	2.13	0.48
2:G:4586:PRO:HG3	2:G:4629:TYR:CE2	2.48	0.48
2:B:24:CYS:SG	2:B:200:TRP:CE3	3.04	0.48
2:B:730:VAL:HG12	2:B:1476:MET:SD	2.53	0.48
2:B:1105:ALA:HB1	2:B:1109:LEU:HD22	1.95	0.48
2:B:3971:GLY:O	2:B:3973:CYS:N	2.45	0.48
2:B:4104:THR:CG2	2:B:4107:GLU:HG2	2.43	0.48
2:B:4586:PRO:HG3	2:B:4629:TYR:CE2	2.48	0.48
2:I:878:ILE:HD11	2:I:925:SER:HB2	1.94	0.48
2:I:2624:ARG:HG3	2:I:2910:THR:HG22	1.96	0.48
2:I:2656:CYS:SG	2:I:2657:LEU:N	2.87	0.48
2:I:3036:LYS:NZ	2:I:3076:ASP:OD1	2.33	0.48
2:A:2321:ILE:HG13	2:A:2322:GLY:N	2.21	0.48
2:A:2802:LYS:O	2:A:2806:ARG:HB2	2.13	0.48
2:A:3145:GLN:O	2:A:3149:GLN:HG2	2.13	0.48
2:A:4586:PRO:HG3	2:A:4629:TYR:CE2	2.48	0.48
1:J:31:GLN:HA	1:J:98:ILE:HD13	1.96	0.48
2:G:215:THR:HA	2:G:274:LEU:CD1	2.43	0.48
2:G:940:GLY:O	2:G:1051:TYR:HA	2.14	0.48
2:G:2742:THR:HG23	2:G:2743:LEU:HG	1.96	0.48
2:G:2894:LEU:CB	2:G:2897:LYS:HZ1	2.26	0.48
2:G:3416:VAL:CG2	2:G:3517:MET:HE1	2.43	0.48
2:G:4722:ARG:HE	2:G:4722:ARG:HB2	1.45	0.48
2:B:2323:TRP:CZ3	2:B:2325:PRO:HB3	2.48	0.48
2:B:2964:LEU:CD2	2:B:3042:LEU:HD12	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3718:GLU:CD	2:B:3723:MET:HE3	2.34	0.48
2:I:215:THR:HA	2:I:274:LEU:CD1	2.44	0.48
2:I:316:PHE:CE1	2:I:348:VAL:HG22	2.48	0.48
2:I:4251:ILE:HG13	2:I:4252:SER:N	2.28	0.48
2:A:877:ASN:ND2	2:A:970:LEU:HB3	2.27	0.48
2:G:1492:CYS:SG	2:G:1494:MET:HG3	2.54	0.48
2:G:2737:PRO:HG2	2:G:2888:ARG:HH12	1.79	0.48
2:G:4251:ILE:HG21	2:G:4550:LYS:HA	1.96	0.48
2:B:932:LEU:HD22	2:B:984:LEU:HD21	1.94	0.48
2:B:1926:LEU:HD13	2:B:1939:MET:SD	2.53	0.48
2:B:2469:ILE:CG2	2:B:2502:MET:SD	3.02	0.48
2:B:2765:LYS:HA	2:B:2860:PRO:HD2	1.96	0.48
2:I:1105:ALA:HB1	2:I:1109:LEU:HD22	1.95	0.48
2:I:1926:LEU:HD13	2:I:1939:MET:SD	2.53	0.48
2:I:3718:GLU:CD	2:I:3723:MET:HE1	2.33	0.48
2:I:4221:VAL:HG23	2:I:4230:LYS:HE3	1.96	0.48
2:A:3218:VAL:HG23	2:A:3219:TYR:CD1	2.49	0.48
2:A:3594:ARG:NH2	2:A:3598:GLU:OE1	2.46	0.48
2:A:3701:LEU:HD21	2:A:3725:TYR:CD1	2.49	0.48
2:G:316:PHE:CE1	2:G:348:VAL:HG22	2.48	0.48
2:G:3701:LEU:HD21	2:G:3725:TYR:CD1	2.49	0.48
2:B:767:VAL:HG12	2:B:769:GLU:HG3	1.95	0.48
2:B:1087:ARG:HG2	2:B:1154:ASP:HA	1.96	0.48
2:B:2624:ARG:HG3	2:B:2910:THR:HG22	1.96	0.48
2:B:3776:ALA:HB1	2:B:3816:MET:HG2	1.94	0.48
2:I:183:SER:O	2:I:183:SER:OG	2.28	0.48
2:I:919:ASN:HA	2:I:922:LEU:HD13	1.95	0.48
2:I:2470:ILE:HD13	2:I:2502:MET:HG3	1.96	0.48
2:I:2985:ARG:HG2	2:I:2987:GLU:H	1.78	0.48
2:A:4045:VAL:HG12	2:A:4159:ARG:CD	2.43	0.48
2:G:266:ARG:NH1	2:G:330:ASP:HB2	2.29	0.48
2:G:932:LEU:HD22	2:G:984:LEU:HD21	1.94	0.48
2:B:125:ARG:NH2	2:B:190:GLN:OE1	2.47	0.48
2:B:317:ARG:NH1	2:B:323:LEU:H	2.12	0.48
2:B:2031:LEU:HD11	2:B:3657:TYR:HE1	1.79	0.48
2:B:2475:GLN:HG3	2:B:2488:PRO:HG2	1.95	0.48
2:B:2540:THR:HG1	2:B:2541:PHE:HD2	1.60	0.48
2:B:3524:MET:SD	2:B:3595:ARG:HG3	2.53	0.48
2:I:3206:LEU:HD21	2:I:3276:MET:HE1	1.96	0.48
2:A:3080:VAL:HG12	2:A:3081:MET:HE2	1.93	0.48
2:G:183:SER:O	2:G:189:LEU:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2323:TRP:CZ3	2:G:2325:PRO:HB3	2.48	0.48
2:G:3140:LEU:HG	2:G:3144:PHE:CE1	2.49	0.48
2:G:3776:ALA:HB1	2:G:3816:MET:HG2	1.94	0.48
2:B:227:MET:HE3	2:B:389:PHE:CD2	2.48	0.48
2:I:552:ASP:O	2:I:554:LEU:HD12	2.13	0.48
2:I:3403:ARG:HA	2:I:3458:PHE:CE1	2.49	0.48
2:I:4104:THR:CG2	2:I:4107:GLU:HG2	2.43	0.48
2:A:767:VAL:HG12	2:A:769:GLU:HG3	1.95	0.47
2:A:894:GLY:H	2:A:903:LEU:HD13	1.79	0.47
2:A:2093:SER:HB3	2:A:2096:GLU:HG3	1.96	0.47
2:A:2380:ILE:O	2:A:2384:ILE:HG12	2.14	0.47
2:A:3247:ASP:OD1	2:A:3248:ARG:N	2.47	0.47
2:A:4137:ARG:NH1	2:A:4199:GLU:OE2	2.47	0.47
2:G:125:ARG:NH2	2:G:190:GLN:OE1	2.47	0.47
2:G:552:ASP:O	2:G:554:LEU:HD12	2.13	0.47
2:G:3100:SER:HB3	2:G:3167:ARG:HH11	1.79	0.47
2:G:3971:GLY:O	2:G:3973:CYS:N	2.45	0.47
2:B:158:SER:O	2:B:161:GLU:HG2	2.13	0.47
2:B:894:GLY:H	2:B:903:LEU:HD13	1.79	0.47
2:B:3346:VAL:HG21	2:B:3414:ARG:HB3	1.94	0.47
2:I:835:ARG:NH1	2:I:1210:SER:O	2.46	0.47
2:I:1733:GLU:HG2	2:I:2201:LEU:HD23	1.96	0.47
2:I:3034:LYS:O	2:I:3038:MET:HG3	2.14	0.47
2:I:3442:PHE:O	2:I:3445:TRP:HB3	2.14	0.47
2:I:3715:LYS:HD2	2:I:3715:LYS:C	2.34	0.47
2:I:4251:ILE:HG21	2:I:4550:LYS:HA	1.96	0.47
2:A:215:THR:HA	2:A:274:LEU:CD1	2.43	0.47
2:A:1733:GLU:HG2	2:A:2201:LEU:HD23	1.96	0.47
2:A:1808:ARG:HG3	2:A:1854:PHE:CE1	2.50	0.47
2:A:3081:MET:HE1	2:A:3089:LYS:HA	1.97	0.47
2:A:3442:PHE:O	2:A:3445:TRP:HB3	2.14	0.47
2:A:3987:ASP:OD2	2:B:162:LYS:NZ	2.34	0.47
2:A:4072:VAL:HG13	2:A:4125:PHE:HD2	1.76	0.47
2:A:4251:ILE:HD11	2:A:4557:ARG:HH12	1.79	0.47
1:H:31:GLN:NE2	1:H:96:THR:HG21	2.28	0.47
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.49	0.47
2:G:2093:SER:HB3	2:G:2096:GLU:HG3	1.96	0.47
2:G:2380:ILE:O	2:G:2384:ILE:HG12	2.14	0.47
2:G:2656:CYS:SG	2:G:2657:LEU:N	2.87	0.47
2:G:3247:ASP:OD1	2:G:3248:ARG:N	2.47	0.47
2:B:640:TYR:HD2	2:B:1634:LEU:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2735:PHE:CZ	2:B:2737:PRO:HG3	2.50	0.47
2:B:2754:PHE:HA	2:B:2758:PHE:CB	2.44	0.47
2:B:3442:PHE:O	2:B:3445:TRP:HB3	2.14	0.47
2:I:183:SER:O	2:I:189:LEU:HA	2.14	0.47
2:I:580:GLU:HG3	2:I:620:LEU:HD22	1.97	0.47
2:I:767:VAL:HG12	2:I:769:GLU:HG3	1.96	0.47
2:I:972:LEU:HD11	2:I:975:VAL:HG21	1.95	0.47
2:I:987:ARG:HG2	2:I:987:ARG:HH11	1.79	0.47
2:I:2742:THR:HG23	2:I:2743:LEU:HG	1.96	0.47
2:I:3376:GLU:OE2	2:I:3450:ASN:ND2	2.40	0.47
2:I:3416:VAL:HG22	2:I:3517:MET:CE	2.45	0.47
2:I:3433:GLU:O	2:I:3437:MET:HG3	2.15	0.47
2:A:552:ASP:O	2:A:554:LEU:HD12	2.13	0.47
2:A:3100:SER:HB3	2:A:3167:ARG:HH11	1.79	0.47
2:A:4221:VAL:HG23	2:A:4230:LYS:HE3	1.96	0.47
2:A:4680:LYS:HE2	2:A:4680:LYS:HB2	1.66	0.47
1:O:7:ILE:HG23	2:B:719:LEU:HD11	1.94	0.47
2:G:873:LYS:HE2	2:G:970:LEU:HD22	1.97	0.47
2:G:1087:ARG:HG2	2:G:1154:ASP:HA	1.96	0.47
2:G:2470:ILE:HD13	2:G:2502:MET:HG3	1.96	0.47
2:G:2650:ARG:O	2:G:2661:TRP:HZ2	1.98	0.47
2:G:2862:LEU:HB2	2:G:2929:PHE:CE2	2.48	0.47
2:B:266:ARG:NH1	2:B:330:ASP:HB2	2.29	0.47
2:B:463:GLU:OE1	2:B:467:LYS:HE2	2.15	0.47
2:B:2273:LEU:HD11	2:B:2334:PHE:HB2	1.95	0.47
2:B:2319:PRO:HD3	2:B:2394:GLY:HA2	1.96	0.47
2:B:2465:ASP:O	2:B:2469:ILE:HG12	2.13	0.47
2:B:2656:CYS:SG	2:B:2657:LEU:N	2.87	0.47
2:B:3206:LEU:HD21	2:B:3276:MET:HE1	1.96	0.47
2:I:2469:ILE:CG2	2:I:2502:MET:SD	3.02	0.47
2:I:2475:GLN:HG3	2:I:2488:PRO:HG2	1.95	0.47
2:I:2595:LEU:HD22	2:I:2599:GLN:NE2	2.27	0.47
2:I:2735:PHE:CZ	2:I:2737:PRO:HG3	2.49	0.47
2:I:2929:PHE:HB2	2:I:2932:MET:SD	2.53	0.47
2:A:516:LYS:HA	2:A:519:VAL:HG12	1.96	0.47
2:A:940:GLY:O	2:A:1051:TYR:HA	2.14	0.47
2:A:1087:ARG:HG2	2:A:1154:ASP:HA	1.96	0.47
2:A:2465:ASP:O	2:A:2469:ILE:HG12	2.13	0.47
2:G:919:ASN:HA	2:G:922:LEU:HD13	1.95	0.47
2:G:2465:ASP:O	2:G:2469:ILE:HG12	2.13	0.47
2:G:2624:ARG:HH21	2:G:2906:VAL:HG21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3034:LYS:O	2:G:3038:MET:HG3	2.13	0.47
2:G:3403:ARG:HA	2:G:3458:PHE:CE1	2.49	0.47
2:B:873:LYS:HE2	2:B:970:LEU:HD22	1.97	0.47
2:B:4694:ASP:HA	2:B:4700:GLN:HE21	1.79	0.47
2:I:2031:LEU:HD11	2:I:3657:TYR:HE1	1.79	0.47
2:I:2862:LEU:HB2	2:I:2929:PHE:CE2	2.48	0.47
2:I:3140:LEU:HG	2:I:3144:PHE:CE1	2.49	0.47
2:A:710:ASP:N	2:A:710:ASP:OD1	2.47	0.47
2:A:873:LYS:HE2	2:A:970:LEU:HD22	1.97	0.47
2:A:1492:CYS:SG	2:A:1494:MET:HG3	2.54	0.47
2:A:1976:ARG:NH1	2:A:1997:GLU:OE1	2.26	0.47
2:A:2735:PHE:CZ	2:A:2737:PRO:HG3	2.49	0.47
2:A:4045:VAL:HG12	2:A:4159:ARG:CZ	2.40	0.47
1:O:31:GLN:HA	1:O:98:ILE:HD13	1.96	0.47
2:G:227:MET:CE	2:G:389:PHE:CD2	2.97	0.47
2:G:1829:PRO:O	2:G:1832:GLY:N	2.44	0.47
2:G:2273:LEU:HD11	2:G:2334:PHE:HB2	1.95	0.47
2:G:2735:PHE:CZ	2:G:2737:PRO:HG3	2.50	0.47
2:G:2894:LEU:HG	2:G:2897:LYS:HZ1	1.80	0.47
2:G:3201:MET:HE3	2:G:3205:PHE:CD1	2.43	0.47
2:G:3218:VAL:HG23	2:G:3219:TYR:CD1	2.49	0.47
2:B:1492:CYS:SG	2:B:1494:MET:HG3	2.54	0.47
2:B:3140:LEU:HG	2:B:3144:PHE:CE1	2.49	0.47
2:B:4104:THR:HG22	2:B:4107:GLU:CG	2.45	0.47
2:I:227:MET:CE	2:I:389:PHE:CD2	2.97	0.47
2:I:940:GLY:O	2:I:1051:TYR:HA	2.14	0.47
2:I:1492:CYS:SG	2:I:1494:MET:HG3	2.54	0.47
2:I:2307:LEU:HD11	2:I:2362:GLU:HG3	1.97	0.47
2:I:2319:PRO:HD3	2:I:2394:GLY:HA2	1.96	0.47
2:I:2380:ILE:O	2:I:2384:ILE:HG12	2.14	0.47
2:I:3420:ARG:HG3	2:I:3520:ILE:HD11	1.96	0.47
2:I:3771:HIS:O	2:I:3815:LYS:NZ	2.38	0.47
2:A:266:ARG:NH1	2:A:330:ASP:HB2	2.29	0.47
2:A:2562:ILE:HG21	2:A:2582:MET:CE	2.44	0.47
2:A:2656:CYS:SG	2:A:2657:LEU:N	2.87	0.47
2:A:3847:PHE:HE2	2:A:3936:TYR:HE2	1.63	0.47
2:A:4130:ASN:HA	2:A:4133:GLN:HB2	1.96	0.47
2:A:4251:ILE:HG13	2:A:4252:SER:N	2.28	0.47
2:G:2471:SER:HB2	2:G:2524:VAL:HG22	1.97	0.47
2:G:3037:GLU:HG3	2:G:3080:VAL:HG22	1.97	0.47
2:B:183:SER:O	2:B:189:LEU:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:516:LYS:HA	2:B:519:VAL:HG12	1.96	0.47
2:B:940:GLY:O	2:B:1051:TYR:HA	2.14	0.47
2:B:987:ARG:HH11	2:B:987:ARG:HG2	1.80	0.47
2:B:2650:ARG:O	2:B:2661:TRP:HZ2	1.98	0.47
2:I:20:VAL:HG12	2:I:204:PRO:HA	1.97	0.47
2:I:125:ARG:NH2	2:I:190:GLN:OE1	2.47	0.47
2:I:2093:SER:HB3	2:I:2096:GLU:HG3	1.96	0.47
2:I:2465:ASP:O	2:I:2469:ILE:HG12	2.13	0.47
2:I:2469:ILE:CB	2:I:2502:MET:CE	2.89	0.47
2:I:2624:ARG:HH21	2:I:2906:VAL:HG21	1.80	0.47
2:I:4694:ASP:HA	2:I:4700:GLN:HE21	1.79	0.47
2:A:580:GLU:HG3	2:A:620:LEU:HD22	1.97	0.47
2:A:974:HIS:HB2	2:A:976:ARG:HH22	1.80	0.47
2:A:2470:ILE:HD13	2:A:2502:MET:HG3	1.96	0.47
2:A:2650:ARG:O	2:A:2661:TRP:HZ2	1.98	0.47
2:A:2737:PRO:HG2	2:A:2888:ARG:HH12	1.79	0.47
2:A:2894:LEU:O	2:A:2897:LYS:NZ	2.48	0.47
2:A:2904:LEU:HD23	2:A:2904:LEU:H	1.80	0.47
2:A:3140:LEU:HG	2:A:3144:PHE:CE1	2.49	0.47
2:A:3187:ARG:HH12	2:A:3267:PRO:CB	2.26	0.47
2:A:3368:ARG:NH2	2:A:3404:ASP:OD2	2.46	0.47
2:A:3403:ARG:HA	2:A:3458:PHE:CE1	2.49	0.47
2:A:3530:GLN:OE1	2:A:3534:MET:CE	2.63	0.47
2:G:20:VAL:HG12	2:G:204:PRO:HA	1.97	0.47
2:G:463:GLU:OE1	2:G:467:LYS:HE2	2.15	0.47
2:G:640:TYR:HD2	2:G:1634:LEU:HB3	1.79	0.47
2:G:987:ARG:HG2	2:G:987:ARG:HH11	1.79	0.47
2:G:2268:GLN:HG3	2:G:2269:GLY:N	2.30	0.47
2:G:3433:GLU:O	2:G:3437:MET:HG3	2.15	0.47
2:G:4683:PHE:CE2	2:G:5017:ARG:HG3	2.50	0.47
2:B:183:SER:O	2:B:183:SER:OG	2.28	0.47
2:B:1261:ASP:OD1	2:B:1262:GLY:N	2.39	0.47
2:B:1748:PHE:HE1	2:B:1760:HIS:CD2	2.32	0.47
2:B:2093:SER:HB3	2:B:2096:GLU:HG3	1.96	0.47
2:B:2521:VAL:HA	2:B:2524:VAL:HG12	1.97	0.47
2:B:2679:PHE:HB2	2:B:2706:ILE:HG21	1.97	0.47
2:B:3037:GLU:HG3	2:B:3080:VAL:HG22	1.97	0.47
2:B:3403:ARG:HA	2:B:3458:PHE:CE1	2.49	0.47
2:B:3433:GLU:O	2:B:3437:MET:HG3	2.15	0.47
2:B:3530:GLN:OE1	2:B:3534:MET:CE	2.63	0.47
2:B:4077:PHE:CE1	2:B:4097:MET:CE	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4130:ASN:HA	2:B:4133:GLN:HB2	1.96	0.47
2:B:4251:ILE:HG21	2:B:4550:LYS:HA	1.96	0.47
2:B:4683:PHE:CE2	2:B:5017:ARG:HG3	2.50	0.47
2:I:140:ASP:N	2:I:140:ASP:OD1	2.47	0.47
2:I:359:TYR:HB2	2:I:374:LYS:HB3	1.97	0.47
2:I:752:VAL:O	2:I:753:PRO:C	2.40	0.47
2:I:873:LYS:HE2	2:I:970:LEU:HD22	1.97	0.47
2:I:894:GLY:H	2:I:903:LEU:HD13	1.79	0.47
2:I:1087:ARG:HG2	2:I:1154:ASP:HA	1.96	0.47
2:I:2471:SER:HB2	2:I:2524:VAL:HG22	1.97	0.47
2:I:2650:ARG:O	2:I:2661:TRP:HZ2	1.98	0.47
2:I:2904:LEU:HD23	2:I:2904:LEU:H	1.80	0.47
2:I:3080:VAL:CG1	2:I:3081:MET:HE3	2.41	0.47
2:I:3218:VAL:HG23	2:I:3219:TYR:CD1	2.49	0.47
2:I:3247:ASP:OD1	2:I:3248:ARG:N	2.47	0.47
2:I:3445:TRP:CZ3	2:I:3452:LYS:HA	2.50	0.47
2:I:3701:LEU:HD21	2:I:3725:TYR:CD1	2.49	0.47
2:I:4137:ARG:NH1	2:I:4199:GLU:OE2	2.47	0.47
2:I:4251:ILE:HD11	2:I:4557:ARG:HH12	1.79	0.47
2:I:4683:PHE:CE2	2:I:5017:ARG:HG3	2.50	0.47
1:F:7:ILE:HG23	2:A:719:LEU:HD11	1.96	0.47
2:A:140:ASP:N	2:A:140:ASP:OD1	2.47	0.47
2:A:317:ARG:NH1	2:A:323:LEU:H	2.12	0.47
2:A:2469:ILE:CG2	2:A:2502:MET:SD	3.02	0.47
2:A:3037:GLU:HG3	2:A:3080:VAL:HG22	1.97	0.47
2:A:4104:THR:HG22	2:A:4107:GLU:CG	2.45	0.47
2:A:4683:PHE:CE2	2:A:5017:ARG:HG3	2.50	0.47
2:G:894:GLY:H	2:G:903:LEU:HD13	1.79	0.47
2:G:2562:ILE:HG21	2:G:2582:MET:CE	2.44	0.47
2:G:2678:LEU:O	2:G:2682:ILE:HG12	2.15	0.47
2:G:2816:MET:HA	2:G:2819:TRP:CE3	2.50	0.47
2:G:2819:TRP:CH2	2:G:2881:ASN:HB2	2.50	0.47
2:G:2959:PHE:CD2	2:G:2963:LEU:HD11	2.49	0.47
2:B:2380:ILE:O	2:B:2384:ILE:HG12	2.14	0.47
2:B:2470:ILE:HD13	2:B:2502:MET:HG3	1.96	0.47
2:B:2819:TRP:CH2	2:B:2881:ASN:HB2	2.50	0.47
2:B:2959:PHE:CD2	2:B:2963:LEU:HD11	2.49	0.47
2:B:3218:VAL:HG23	2:B:3219:TYR:CD1	2.49	0.47
2:B:3420:ARG:HG3	2:B:3520:ILE:HD11	1.96	0.47
2:B:3934:TYR:HA	2:B:3999:MET:CE	2.45	0.47
2:B:4045:VAL:HG12	2:B:4159:ARG:CD	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:266:ARG:NH1	2:I:330:ASP:HB2	2.29	0.47
2:I:648:ILE:HG23	2:I:814:ALA:HB3	1.97	0.47
2:I:2521:VAL:HA	2:I:2524:VAL:HG12	1.97	0.47
2:I:2562:ILE:HG21	2:I:2582:MET:CE	2.44	0.47
2:I:2615:ARG:NH1	2:I:2618:MET:HE2	2.27	0.47
2:I:2737:PRO:HG2	2:I:2888:ARG:HH12	1.79	0.47
2:I:2963:LEU:HD22	2:I:3006:ILE:HD11	1.97	0.47
2:I:3100:SER:HB3	2:I:3167:ARG:HH11	1.79	0.47
2:A:227:MET:CE	2:A:389:PHE:CD2	2.97	0.47
2:A:1748:PHE:HE1	2:A:1760:HIS:CD2	2.32	0.47
2:A:2098:VAL:CG2	2:A:2101:MET:HE2	2.43	0.47
2:A:2754:PHE:HA	2:A:2758:PHE:CB	2.44	0.47
1:O:85:THR:CG2	1:O:86:GLY:N	2.78	0.47
2:G:317:ARG:NH1	2:G:323:LEU:H	2.12	0.47
2:G:580:GLU:HG3	2:G:620:LEU:HD22	1.97	0.47
2:B:1186:ASP:OD1	2:B:1186:ASP:N	2.44	0.47
2:B:2970:SER:O	2:B:2974:ILE:HG23	2.15	0.47
2:I:516:LYS:HA	2:I:519:VAL:HG12	1.96	0.47
2:I:4077:PHE:CE1	2:I:4097:MET:CE	2.98	0.47
2:A:320:LYS:HA	2:A:356:TRP:CH2	2.51	0.47
2:A:826:ILE:HG22	2:A:827:LYS:H	1.80	0.47
2:A:2273:LEU:HD11	2:A:2334:PHE:HB2	1.95	0.47
2:A:2678:LEU:O	2:A:2682:ILE:HG12	2.15	0.47
2:A:2816:MET:HA	2:A:2819:TRP:CE3	2.50	0.47
2:G:516:LYS:HA	2:G:519:VAL:HG12	1.96	0.47
2:G:648:ILE:HG23	2:G:814:ALA:HB3	1.97	0.47
2:G:3442:PHE:O	2:G:3445:TRP:HB3	2.14	0.47
2:G:4251:ILE:HD11	2:G:4557:ARG:HH12	1.79	0.47
2:B:140:ASP:OD1	2:B:140:ASP:N	2.47	0.47
2:B:815:VAL:HG11	2:B:821:LEU:HB2	1.97	0.47
2:B:2963:LEU:HD22	2:B:3006:ILE:HD11	1.97	0.47
2:I:24:CYS:SG	2:I:200:TRP:CE3	3.04	0.47
2:I:2273:LEU:HD11	2:I:2334:PHE:HB2	1.95	0.47
2:I:2678:LEU:O	2:I:2682:ILE:HG12	2.15	0.47
2:I:4791:TYR:HE1	2:I:4818:MET:HE3	1.52	0.47
2:A:125:ARG:NH2	2:A:190:GLN:OE1	2.47	0.46
2:A:2475:GLN:HG3	2:A:2488:PRO:HG2	1.95	0.46
2:A:2624:ARG:HH21	2:A:2906:VAL:HG21	1.80	0.46
2:A:4930:ALA:HB2	2:G:4933:GLN:HG2	1.97	0.46
2:G:72:SER:HA	2:G:106:ALA:O	2.16	0.46
2:G:974:HIS:HB2	2:G:976:ARG:HH22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:981:GLN:NE2	2:G:1053:ILE:HB	2.30	0.46
2:G:1028:ASP:OD1	2:G:1028:ASP:N	2.46	0.46
2:G:1087:ARG:HB3	2:G:1223:PHE:CD2	2.51	0.46
2:G:3368:ARG:NH2	2:G:3404:ASP:OD2	2.46	0.46
2:G:3989:VAL:HA	2:G:4023:MET:CE	2.45	0.46
2:G:4104:THR:HG22	2:G:4107:GLU:CG	2.45	0.46
2:G:4221:VAL:HG23	2:G:4230:LYS:HE3	1.96	0.46
2:G:4948:GLU:HA	2:G:4951:LYS:CG	2.45	0.46
2:B:224:HIS:O	2:B:226:HIS:N	2.49	0.46
2:B:580:GLU:HG3	2:B:620:LEU:HD22	1.97	0.46
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.96	0.46
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.50	0.46
2:B:2469:ILE:HG22	2:B:2502:MET:SD	2.55	0.46
2:B:2471:SER:HB2	2:B:2524:VAL:HG22	1.97	0.46
2:B:2624:ARG:HH21	2:B:2906:VAL:HG21	1.80	0.46
2:B:2737:PRO:HG2	2:B:2888:ARG:HH12	1.79	0.46
2:I:1808:ARG:HG3	2:I:1854:PHE:CE1	2.50	0.46
2:I:2816:MET:HA	2:I:2819:TRP:CE3	2.50	0.46
2:I:3037:GLU:HG3	2:I:3080:VAL:HG22	1.97	0.46
2:I:3992:PHE:HB3	2:I:3996:PHE:CE2	2.51	0.46
2:I:4049:VAL:O	2:I:4052:SER:OG	2.24	0.46
2:I:4104:THR:HG22	2:I:4107:GLU:CG	2.45	0.46
2:I:4130:ASN:HA	2:I:4133:GLN:HB2	1.96	0.46
2:A:640:TYR:HD2	2:A:1634:LEU:HB3	1.79	0.46
2:A:815:VAL:HG11	2:A:821:LEU:HB2	1.97	0.46
2:A:1037:ASP:O	2:A:1041:GLN:HG2	2.16	0.46
2:A:2132:GLY:O	2:A:2136:ARG:HG3	2.15	0.46
2:A:2521:VAL:HA	2:A:2524:VAL:HG12	1.97	0.46
2:A:2788:HIS:NE2	2:A:2790:MET:HG2	2.29	0.46
2:A:3989:VAL:HA	2:A:4023:MET:CE	2.45	0.46
2:G:651:GLY:N	2:G:658:GLN:OE1	2.46	0.46
2:G:2475:GLN:HG3	2:G:2488:PRO:HG2	1.95	0.46
2:G:2788:HIS:NE2	2:G:2790:MET:HG2	2.29	0.46
2:G:2904:LEU:H	2:G:2904:LEU:HD23	1.80	0.46
2:G:3206:LEU:HD21	2:G:3276:MET:HE2	1.96	0.46
2:G:3934:TYR:HA	2:G:3999:MET:CE	2.45	0.46
2:G:4694:ASP:HA	2:G:4700:GLN:HE21	1.79	0.46
2:B:651:GLY:N	2:B:658:GLN:OE1	2.46	0.46
2:B:1037:ASP:O	2:B:1041:GLN:HG2	2.16	0.46
2:B:1829:PRO:O	2:B:1832:GLY:N	2.44	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3445:TRP:CZ3	2:B:3452:LYS:HA	2.50	0.46
2:B:3847:PHE:HE2	2:B:3936:TYR:HE2	1.63	0.46
2:B:3989:VAL:HA	2:B:4023:MET:CE	2.45	0.46
2:B:4137:ARG:NH1	2:B:4199:GLU:OE2	2.47	0.46
2:B:4251:ILE:HD11	2:B:4557:ARG:HH12	1.79	0.46
2:I:219:VAL:HG12	2:I:259:LEU:HD22	1.98	0.46
2:I:463:GLU:OE1	2:I:467:LYS:HE2	2.15	0.46
2:I:509:GLU:N	2:I:509:GLU:OE2	2.45	0.46
2:I:2750:LYS:NZ	2:I:2824:GLU:OE1	2.37	0.46
2:I:3989:VAL:HA	2:I:4023:MET:CE	2.45	0.46
1:F:24:VAL:HG12	1:F:103:LEU:HA	1.97	0.46
1:F:31:GLN:HA	1:F:98:ILE:HD13	1.96	0.46
2:A:1228:ILE:HG22	2:A:1827:ARG:NH1	2.27	0.46
2:A:1229:ASN:OD1	2:G:3570:ARG:NH1	2.48	0.46
2:A:2297:LYS:HE3	2:A:2301:TYR:HE2	1.81	0.46
2:A:2735:PHE:CE1	2:A:2737:PRO:HG3	2.51	0.46
2:A:2819:TRP:CH2	2:A:2881:ASN:HB2	2.50	0.46
2:A:3218:VAL:O	2:A:3222:LYS:HB2	2.16	0.46
1:J:24:VAL:HG12	1:J:103:LEU:HA	1.97	0.46
1:J:106:LEU:HD23	1:J:106:LEU:HA	1.83	0.46
2:G:884:LEU:HB2	2:G:969:PRO:HD3	1.97	0.46
2:G:2132:GLY:O	2:G:2136:ARG:HG3	2.15	0.46
2:G:2307:LEU:HD11	2:G:2362:GLU:HG3	1.97	0.46
2:G:2521:VAL:HA	2:G:2524:VAL:HG12	1.97	0.46
2:G:3445:TRP:CZ3	2:G:3452:LYS:HA	2.50	0.46
2:G:3836:MET:CE	2:G:3885:PHE:HE1	2.09	0.46
2:G:4045:VAL:HG12	2:G:4159:ARG:CD	2.43	0.46
2:B:359:TYR:HB2	2:B:374:LYS:HB3	1.97	0.46
2:B:884:LEU:HB2	2:B:969:PRO:HD3	1.97	0.46
2:B:1924:GLU:HA	2:B:1928:GLN:CD	2.36	0.46
2:B:2098:VAL:CG2	2:B:2101:MET:CE	2.79	0.46
2:B:2562:ILE:HG21	2:B:2582:MET:CE	2.44	0.46
2:B:2816:MET:HA	2:B:2819:TRP:CE3	2.50	0.46
2:B:3376:GLU:OE2	2:B:3450:ASN:ND2	2.40	0.46
2:I:2584:HIS:NE2	2:I:2625:ARG:HD2	2.31	0.46
2:I:3155:ASP:O	2:I:3158:LEU:HD22	2.15	0.46
2:I:3445:TRP:CH2	2:I:3452:LYS:CG	2.93	0.46
2:A:219:VAL:HG12	2:A:259:LEU:HD22	1.98	0.46
2:A:227:MET:HE3	2:A:389:PHE:HD2	1.81	0.46
2:A:2471:SER:HB2	2:A:2524:VAL:HG22	1.97	0.46
2:A:3420:ARG:HG3	2:A:3520:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3445:TRP:CZ3	2:A:3452:LYS:HA	2.50	0.46
2:A:4791:TYR:OH	2:A:4818:MET:HE1	2.14	0.46
2:G:320:LYS:HA	2:G:356:TRP:CH2	2.50	0.46
2:G:2587:TYR:OH	2:G:2591:ARG:NH2	2.36	0.46
2:G:3218:VAL:O	2:G:3222:LYS:HB2	2.16	0.46
2:G:3530:GLN:OE1	2:G:3534:MET:CE	2.63	0.46
2:B:219:VAL:HG12	2:B:259:LEU:HD22	1.98	0.46
2:B:648:ILE:HG23	2:B:814:ALA:HB3	1.97	0.46
2:B:826:ILE:HG22	2:B:827:LYS:H	1.80	0.46
2:B:2678:LEU:O	2:B:2682:ILE:HG12	2.15	0.46
2:B:4221:VAL:HG23	2:B:4230:LYS:HE3	1.96	0.46
2:I:320:LYS:HA	2:I:356:TRP:CH2	2.50	0.46
2:I:826:ILE:HG22	2:I:827:LYS:H	1.80	0.46
2:I:2458:ARG:HD3	2:I:2509:VAL:HG12	1.98	0.46
2:I:2679:PHE:HB2	2:I:2706:ILE:HG21	1.97	0.46
2:I:3100:SER:HB3	2:I:3167:ARG:NH1	2.31	0.46
2:I:4045:VAL:HG12	2:I:4159:ARG:CD	2.43	0.46
2:I:4948:GLU:HA	2:I:4951:LYS:CG	2.45	0.46
2:A:648:ILE:HG23	2:A:814:ALA:HB3	1.97	0.46
2:A:880:GLU:HB2	2:A:968:ALA:O	2.16	0.46
2:A:987:ARG:HG2	2:A:987:ARG:HH11	1.79	0.46
2:A:1087:ARG:HB3	2:A:1223:PHE:CD2	2.51	0.46
2:A:1261:ASP:OD1	2:A:1262:GLY:N	2.39	0.46
2:A:2676:ARG:NH1	2:A:2716:ASP:OD1	2.49	0.46
2:A:2970:SER:O	2:A:2974:ILE:HG23	2.15	0.46
2:A:3836:MET:HE3	2:A:3885:PHE:HZ	1.75	0.46
2:A:4722:ARG:HE	2:A:4722:ARG:HB2	1.45	0.46
2:G:1039:LEU:HD23	2:G:1039:LEU:N	2.31	0.46
2:G:1228:ILE:HG22	2:G:1827:ARG:NH1	2.27	0.46
2:G:2696:TYR:O	2:G:2700:MET:HE2	2.15	0.46
2:G:2735:PHE:CE1	2:G:2737:PRO:HG3	2.51	0.46
2:G:3100:SER:HB3	2:G:3167:ARG:NH1	2.31	0.46
2:B:2307:LEU:HD11	2:B:2362:GLU:HG3	1.97	0.46
2:B:2584:HIS:NE2	2:B:2625:ARG:HD2	2.31	0.46
2:B:3077:ALA:C	2:B:3079:THR:H	2.19	0.46
2:B:4823:LEU:HD11	2:I:4839:MET:CB	2.39	0.46
2:I:1087:ARG:HB3	2:I:1223:PHE:CD2	2.51	0.46
2:I:1924:GLU:HA	2:I:1928:GLN:CD	2.36	0.46
2:I:2132:GLY:O	2:I:2136:ARG:HG3	2.15	0.46
2:I:2819:TRP:CH2	2:I:2881:ASN:HB2	2.50	0.46
2:I:3218:VAL:O	2:I:3222:LYS:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3530:GLN:OE1	2:I:3534:MET:CE	2.63	0.46
1:F:85:THR:CG2	1:F:86:GLY:N	2.78	0.46
2:A:224:HIS:O	2:A:226:HIS:N	2.49	0.46
2:A:2237:CYS:O	2:A:2241:ARG:HG3	2.16	0.46
2:A:2476:ILE:HG23	2:A:2536:LEU:HD11	1.98	0.46
2:A:3155:ASP:O	2:A:3158:LEU:HD22	2.15	0.46
2:A:4753:HIS:CG	2:A:4754:ASN:N	2.84	0.46
1:J:85:THR:CG2	1:J:86:GLY:N	2.78	0.46
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.96	0.46
2:G:1924:GLU:HA	2:G:1928:GLN:CD	2.36	0.46
2:G:2894:LEU:O	2:G:2897:LYS:NZ	2.48	0.46
2:G:3847:PHE:HE2	2:G:3936:TYR:HE2	1.63	0.46
2:G:3850:GLN:HB2	2:G:3873:LYS:HZ1	1.80	0.46
2:G:3992:PHE:HB3	2:G:3996:PHE:CE2	2.51	0.46
2:B:320:LYS:HA	2:B:356:TRP:CH2	2.51	0.46
2:B:546:TRP:CE2	2:B:550:LYS:HE2	2.51	0.46
2:B:1595:LEU:HD12	2:B:1595:LEU:HA	1.78	0.46
2:B:2237:CYS:O	2:B:2241:ARG:HG3	2.16	0.46
2:B:2325:PRO:HG2	2:B:2421:ALA:HB1	1.97	0.46
2:B:2458:ARG:HD3	2:B:2509:VAL:HG12	1.98	0.46
2:B:3327:LEU:HD21	2:B:3364:ARG:HH12	1.75	0.46
2:B:3537:LYS:NZ	2:B:3603:LEU:HB2	2.31	0.46
2:I:2676:ARG:NH1	2:I:2716:ASP:OD1	2.49	0.46
2:I:3984:ARG:NH1	2:I:3987:ASP:OD2	2.27	0.46
1:F:44:LYS:HB3	1:F:44:LYS:HE3	1.63	0.46
2:A:359:TYR:HB2	2:A:374:LYS:HB3	1.97	0.46
2:A:4251:ILE:HG21	2:A:4550:LYS:HA	1.96	0.46
2:G:219:VAL:HG12	2:G:259:LEU:HD22	1.98	0.46
2:G:815:VAL:HG11	2:G:821:LEU:HB2	1.97	0.46
2:G:1229:ASN:OD1	2:I:3570:ARG:NH1	2.49	0.46
2:G:1748:PHE:HE1	2:G:1760:HIS:CD2	2.32	0.46
2:G:2003:GLN:HA	2:G:2006:ILE:HG22	1.98	0.46
2:G:3420:ARG:HG3	2:G:3520:ILE:HD11	1.96	0.46
2:G:4130:ASN:HA	2:G:4133:GLN:HB2	1.96	0.46
2:B:2297:LYS:HE3	2:B:2301:TYR:HE2	1.81	0.46
2:B:2604:GLU:HB2	2:B:2639:MET:HG3	1.98	0.46
2:I:2325:PRO:HG2	2:I:2421:ALA:HB1	1.97	0.46
2:I:3327:LEU:HD21	2:I:3364:ARG:HH12	1.75	0.46
2:A:72:SER:HA	2:A:106:ALA:O	2.16	0.46
2:A:903:LEU:O	2:A:903:LEU:HD12	2.16	0.46
2:A:3427:PRO:HD2	2:A:3581:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3433:GLU:O	2:A:3437:MET:HG3	2.15	0.46
2:A:4948:GLU:HA	2:A:4951:LYS:CG	2.45	0.46
1:H:31:GLN:HB3	2:G:1299:GLN:OE1	2.15	0.46
1:O:24:VAL:HG12	1:O:103:LEU:HA	1.97	0.46
2:G:710:ASP:N	2:G:710:ASP:OD1	2.47	0.46
2:G:1122:TYR:HE1	2:G:1133:HIS:NE2	2.14	0.46
2:G:2031:LEU:HD11	2:G:3657:TYR:HE1	1.79	0.46
2:G:2584:HIS:NE2	2:G:2625:ARG:HD2	2.31	0.46
2:G:2604:GLU:HB2	2:G:2639:MET:HG3	1.98	0.46
2:B:903:LEU:O	2:B:903:LEU:HD12	2.16	0.46
2:B:3428:ASN:O	2:B:3432:GLU:HG2	2.16	0.46
2:B:3530:GLN:OE1	2:B:3534:MET:HE3	2.16	0.46
2:I:815:VAL:HG11	2:I:821:LEU:HB2	1.97	0.46
2:I:2449:GLU:O	2:I:2453:ILE:HG12	2.16	0.46
2:I:2894:LEU:O	2:I:2897:LYS:NZ	2.48	0.46
2:I:2970:SER:O	2:I:2974:ILE:HG23	2.15	0.46
2:I:4753:HIS:CG	2:I:4754:ASN:N	2.84	0.46
2:A:1122:TYR:HE1	2:A:1133:HIS:NE2	2.14	0.46
2:A:1650:ILE:O	2:A:1653:LEU:HB2	2.16	0.46
2:A:2469:ILE:HG22	2:A:2502:MET:SD	2.55	0.46
2:A:2587:TYR:OH	2:A:2591:ARG:NH2	2.36	0.46
2:A:2963:LEU:HD22	2:A:3006:ILE:HD11	1.97	0.46
2:A:3100:SER:HB3	2:A:3167:ARG:NH1	2.31	0.46
2:A:3147:ILE:CD1	2:A:3156:VAL:HB	2.46	0.46
2:A:4694:ASP:HA	2:A:4700:GLN:HE21	1.79	0.46
2:G:140:ASP:OD1	2:G:140:ASP:N	2.47	0.46
2:G:224:HIS:O	2:G:226:HIS:N	2.49	0.46
2:G:1595:LEU:HD12	2:G:1595:LEU:HA	1.79	0.46
2:G:1650:ILE:O	2:G:1653:LEU:HB2	2.16	0.46
2:G:2155:LEU:CD1	2:G:2198:MET:CE	2.94	0.46
2:G:2319:PRO:HD3	2:G:2394:GLY:HA2	1.96	0.46
2:G:3155:ASP:O	2:G:3158:LEU:HD22	2.15	0.46
2:B:72:SER:HA	2:B:106:ALA:O	2.15	0.46
2:B:345:LEU:HD22	2:B:387:ALA:HB3	1.98	0.46
2:B:880:GLU:HB2	2:B:968:ALA:O	2.16	0.46
2:B:1087:ARG:HB3	2:B:1223:PHE:CD2	2.50	0.46
2:B:2676:ARG:NH1	2:B:2716:ASP:OD1	2.49	0.46
2:B:3155:ASP:O	2:B:3158:LEU:HD22	2.15	0.46
2:B:4753:HIS:CG	2:B:4754:ASN:N	2.84	0.46
2:I:981:GLN:NE2	2:I:1053:ILE:HB	2.30	0.46
2:I:4231:MET:HG3	2:I:4959:PHE:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:347:PHE:CE2	2:A:387:ALA:HB2	2.51	0.46
2:A:463:GLU:OE1	2:A:467:LYS:HE2	2.15	0.46
2:A:546:TRP:CE2	2:A:550:LYS:HE2	2.51	0.46
2:A:687:ALA:O	2:A:777:PHE:HA	2.16	0.46
2:A:1924:GLU:HA	2:A:1928:GLN:CD	2.36	0.46
2:A:2584:HIS:NE2	2:A:2625:ARG:HD2	2.31	0.46
2:A:2679:PHE:HB2	2:A:2706:ILE:HG21	1.97	0.46
2:A:3077:ALA:C	2:A:3079:THR:H	2.19	0.46
2:A:4077:PHE:CE1	2:A:4097:MET:CE	2.98	0.46
2:A:4807:PHE:HE1	2:B:4879:MET:CE	2.29	0.46
2:G:546:TRP:CE2	2:G:550:LYS:HE2	2.51	0.46
2:G:2297:LYS:HE3	2:G:2301:TYR:HE2	1.81	0.46
2:G:2595:LEU:HD22	2:G:2599:GLN:CG	2.46	0.46
2:G:3147:ILE:CD1	2:G:3156:VAL:HB	2.46	0.46
2:G:4077:PHE:CE1	2:G:4097:MET:CE	2.98	0.46
2:B:20:VAL:HG12	2:B:204:PRO:HA	1.97	0.46
2:B:1115:LEU:HD13	2:B:1193:SER:HB2	1.98	0.46
2:B:1650:ILE:O	2:B:1653:LEU:HB2	2.16	0.46
2:B:2735:PHE:CE1	2:B:2737:PRO:HG3	2.51	0.46
2:B:2904:LEU:HD23	2:B:2904:LEU:H	1.80	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:NH1	2.31	0.46
2:B:3992:PHE:HB3	2:B:3996:PHE:CE2	2.51	0.46
2:I:880:GLU:HB2	2:I:968:ALA:O	2.16	0.46
2:I:884:LEU:HB2	2:I:969:PRO:HD3	1.97	0.46
2:I:1039:LEU:N	2:I:1039:LEU:HD23	2.31	0.46
2:I:2003:GLN:HA	2:I:2006:ILE:HG22	1.98	0.46
2:I:2469:ILE:HG22	2:I:2502:MET:SD	2.55	0.46
2:I:2595:LEU:HD22	2:I:2599:GLN:CG	2.46	0.46
2:I:2604:GLU:HB2	2:I:2639:MET:HG3	1.98	0.46
2:A:20:VAL:HG12	2:A:204:PRO:HA	1.97	0.45
2:A:183:SER:O	2:A:189:LEU:HA	2.14	0.45
2:A:981:GLN:NE2	2:A:1053:ILE:HB	2.30	0.45
2:A:1972:ASN:OD1	2:A:1973:GLN:N	2.50	0.45
2:A:2319:PRO:HD3	2:A:2394:GLY:HA2	1.96	0.45
2:A:2595:LEU:HD22	2:A:2599:GLN:CG	2.46	0.45
2:A:2604:GLU:HB2	2:A:2639:MET:HG3	1.98	0.45
2:A:2974:ILE:HG13	2:A:2975:ALA:N	2.32	0.45
2:A:3204:ALA:HB2	2:A:3305:THR:HG22	1.98	0.45
2:A:3537:LYS:NZ	2:A:3603:LEU:HB2	2.31	0.45
2:A:3846:ALA:HB1	2:A:3873:LYS:HG3	1.98	0.45
2:A:3984:ARG:HH22	2:B:161:GLU:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4044:MET:O	2:A:4047:MET:HB3	2.16	0.45
2:A:4212:GLU:CD	2:A:4215:ARG:HH12	2.20	0.45
1:O:44:LYS:HB3	1:O:44:LYS:HE3	1.63	0.45
2:G:880:GLU:HB2	2:G:968:ALA:O	2.16	0.45
2:G:1037:ASP:O	2:G:1041:GLN:HG2	2.15	0.45
2:G:2166:LEU:HD11	2:G:2206:THR:HG23	1.98	0.45
2:G:2458:ARG:HD3	2:G:2509:VAL:HG12	1.98	0.45
2:G:2567:PRO:HA	2:G:2613:TYR:CG	2.51	0.45
2:G:2970:SER:O	2:G:2974:ILE:HG23	2.15	0.45
2:G:4753:HIS:CG	2:G:4754:ASN:N	2.84	0.45
2:B:576:ASN:ND2	2:B:2169:GLN:OE1	2.49	0.45
2:B:981:GLN:NE2	2:B:1053:ILE:HB	2.30	0.45
2:B:1859:VAL:HA	2:B:1862:ILE:HD12	1.98	0.45
2:B:2469:ILE:CB	2:B:2502:MET:HE1	2.47	0.45
2:B:2595:LEU:HD22	2:B:2599:GLN:CG	2.46	0.45
2:B:4948:GLU:HA	2:B:4951:LYS:CG	2.45	0.45
2:I:924:MET:HE1	2:I:927:GLU:CB	2.46	0.45
2:I:1293:LEU:HD11	2:I:1594:ARG:HD3	1.98	0.45
2:I:2959:PHE:CD2	2:I:2963:LEU:HD11	2.49	0.45
2:I:3077:ALA:C	2:I:3079:THR:H	2.19	0.45
2:I:3147:ILE:CD1	2:I:3156:VAL:HB	2.46	0.45
2:A:576:ASN:ND2	2:A:2169:GLN:OE1	2.49	0.45
2:A:2959:PHE:CD2	2:A:2963:LEU:HD11	2.49	0.45
2:A:3634:ALA:HA	2:A:3637:ARG:HD3	1.99	0.45
2:A:3992:PHE:HB3	2:A:3996:PHE:CE2	2.51	0.45
2:A:5011:TRP:CH2	6:A:5304:CFF:H142	2.52	0.45
2:G:1972:ASN:OD1	2:G:1973:GLN:N	2.50	0.45
2:G:2237:CYS:O	2:G:2241:ARG:HG3	2.16	0.45
2:G:2676:ARG:NH1	2:G:2716:ASP:OD1	2.49	0.45
2:G:2963:LEU:HD22	2:G:3006:ILE:HD11	1.97	0.45
2:B:1000:ARG:HB2	2:B:1021:LEU:HD21	1.98	0.45
2:B:1421:ARG:HE	2:B:1421:ARG:HB2	1.46	0.45
2:B:2132:GLY:O	2:B:2136:ARG:HG3	2.15	0.45
2:B:3147:ILE:CD1	2:B:3156:VAL:HB	2.46	0.45
2:B:3204:ALA:HB2	2:B:3305:THR:HG22	1.98	0.45
2:I:224:HIS:O	2:I:226:HIS:N	2.49	0.45
2:I:345:LEU:HD22	2:I:387:ALA:HB3	1.98	0.45
2:I:347:PHE:CE2	2:I:387:ALA:HB2	2.51	0.45
2:I:903:LEU:O	2:I:903:LEU:HD12	2.16	0.45
2:I:1037:ASP:O	2:I:1041:GLN:HG2	2.15	0.45
2:I:1115:LEU:HD13	2:I:1193:SER:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1972:ASN:OD1	2:I:1973:GLN:N	2.49	0.45
2:I:4104:THR:HG22	2:I:4107:GLU:OE2	2.16	0.45
2:A:1039:LEU:N	2:A:1039:LEU:HD23	2.31	0.45
2:A:2595:LEU:HD21	2:A:2599:GLN:NE2	2.31	0.45
2:A:4967:TYR:HE2	2:A:5030:LYS:HG3	1.80	0.45
1:H:24:VAL:HG12	1:H:103:LEU:HA	1.97	0.45
1:J:31:GLN:NE2	1:J:96:THR:CG2	2.79	0.45
2:G:576:ASN:ND2	2:G:2169:GLN:OE1	2.49	0.45
2:G:1153:ILE:HG13	2:G:1160:ILE:HG12	1.99	0.45
2:G:2449:GLU:O	2:G:2453:ILE:HG12	2.16	0.45
2:G:2679:PHE:HB2	2:G:2706:ILE:HG21	1.97	0.45
2:G:3204:ALA:HB2	2:G:3305:THR:HG22	1.98	0.45
2:G:4021:LYS:NZ	2:G:4138:ASP:HB2	2.31	0.45
2:G:4967:TYR:HE2	2:G:5030:LYS:HG3	1.80	0.45
2:G:5011:TRP:CH2	6:G:5304:CFF:H142	2.52	0.45
2:B:2449:GLU:O	2:B:2453:ILE:HG12	2.16	0.45
2:B:2476:ILE:HG23	2:B:2536:LEU:HD11	1.98	0.45
2:B:4044:MET:O	2:B:4047:MET:HB3	2.16	0.45
2:B:5011:TRP:CH2	6:B:5304:CFF:H142	2.52	0.45
2:I:266:ARG:CZ	2:I:330:ASP:HB2	2.46	0.45
2:I:546:TRP:CE2	2:I:550:LYS:HE2	2.51	0.45
2:I:1650:ILE:O	2:I:1653:LEU:HB2	2.16	0.45
2:I:3182:TYR:HA	2:I:3185:LYS:HD3	1.99	0.45
2:I:3537:LYS:NZ	2:I:3603:LEU:HB2	2.31	0.45
2:I:3847:PHE:HE2	2:I:3936:TYR:HE2	1.63	0.45
2:A:245:VAL:HG21	2:A:299:LEU:HD23	1.98	0.45
2:A:813:GLU:HG2	2:A:1010:VAL:HG22	1.99	0.45
2:A:2166:LEU:HD11	2:A:2206:THR:HG23	1.98	0.45
2:A:2268:GLN:HG3	2:A:2269:GLY:N	2.30	0.45
2:A:2290:LEU:HD13	2:A:2295:LEU:HD21	1.99	0.45
2:A:3327:LEU:CD1	2:A:3368:ARG:NH2	2.71	0.45
2:G:149:THR:O	2:G:171:LEU:HA	2.16	0.45
2:G:347:PHE:CE2	2:G:387:ALA:HB2	2.51	0.45
2:G:903:LEU:O	2:G:903:LEU:HD12	2.16	0.45
2:G:3187:ARG:HH12	2:G:3267:PRO:CB	2.26	0.45
2:G:3846:ALA:HB1	2:G:3873:LYS:HG3	1.98	0.45
2:G:4189:ARG:HB2	2:G:4189:ARG:CZ	2.46	0.45
2:G:4212:GLU:CD	2:G:4215:ARG:HH12	2.20	0.45
2:B:687:ALA:O	2:B:777:PHE:HA	2.17	0.45
2:B:1276:THR:O	2:B:1282:SER:OG	2.28	0.45
2:B:1420:ASN:OD1	2:B:1421:ARG:NE	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2567:PRO:HA	2:B:2613:TYR:CG	2.51	0.45
2:B:2595:LEU:HD21	2:B:2599:GLN:NE2	2.31	0.45
2:B:4189:ARG:HB2	2:B:4189:ARG:CZ	2.46	0.45
2:B:4212:GLU:CD	2:B:4215:ARG:HH12	2.20	0.45
2:I:72:SER:HA	2:I:106:ALA:O	2.16	0.45
2:I:293:LEU:HD12	2:I:378:LEU:HD13	1.98	0.45
2:I:710:ASP:N	2:I:710:ASP:OD1	2.47	0.45
2:I:2237:CYS:O	2:I:2241:ARG:HG3	2.16	0.45
2:I:2595:LEU:HD21	2:I:2599:GLN:NE2	2.31	0.45
2:I:2967:MET:HE3	2:I:3045:LYS:CE	2.37	0.45
2:I:3428:ASN:O	2:I:3432:GLU:HG2	2.16	0.45
2:A:2307:LEU:HD11	2:A:2362:GLU:HG3	1.97	0.45
2:A:2894:LEU:CB	2:A:2897:LYS:HZ1	2.29	0.45
2:A:3445:TRP:CH2	2:A:3452:LYS:CG	2.93	0.45
2:G:266:ARG:CZ	2:G:330:ASP:HB2	2.46	0.45
2:G:359:TYR:HB2	2:G:374:LYS:HB3	1.97	0.45
2:G:1115:LEU:HD13	2:G:1193:SER:HB2	1.99	0.45
2:G:1261:ASP:OD1	2:G:1262:GLY:N	2.39	0.45
2:G:2423:MET:HE3	2:G:2494:PHE:HD1	1.82	0.45
2:G:2476:ILE:HG23	2:G:2536:LEU:HD11	1.98	0.45
2:G:2615:ARG:NH1	2:G:2618:MET:HE2	2.27	0.45
2:G:3077:ALA:C	2:G:3079:THR:H	2.19	0.45
2:G:3111:ARG:HH22	2:G:3175:LEU:HD13	1.82	0.45
2:G:3537:LYS:NZ	2:G:3603:LEU:HB2	2.31	0.45
2:G:4044:MET:O	2:G:4047:MET:HB3	2.16	0.45
2:B:2894:LEU:O	2:B:2897:LYS:NZ	2.48	0.45
2:I:1122:TYR:HE1	2:I:1133:HIS:NE2	2.14	0.45
2:I:1153:ILE:HG13	2:I:1160:ILE:HG12	1.99	0.45
2:I:2470:ILE:HD13	2:I:2502:MET:SD	2.57	0.45
2:I:2567:PRO:HA	2:I:2613:TYR:CG	2.51	0.45
2:I:2735:PHE:CE1	2:I:2737:PRO:HG3	2.51	0.45
2:I:4956:THR:HG23	2:I:4957:LYS:HG3	1.99	0.45
2:I:4967:TYR:HE2	2:I:5030:LYS:HG3	1.80	0.45
1:F:68:LEU:HA	1:F:103:LEU:HD22	1.98	0.45
2:A:293:LEU:HD12	2:A:378:LEU:HD13	1.98	0.45
2:A:1000:ARG:HB2	2:A:1021:LEU:HD21	1.98	0.45
2:A:1420:ASN:OD1	2:A:1421:ARG:NE	2.50	0.45
2:A:2098:VAL:CG2	2:A:2101:MET:HE1	2.35	0.45
2:A:3547:GLU:O	2:A:3550:ARG:HD3	2.17	0.45
1:O:31:GLN:NE2	1:O:96:THR:CG2	2.79	0.45
1:O:106:LEU:HD23	1:O:106:LEU:HA	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:797:HIS:CG	2:G:821:LEU:HD23	2.52	0.45
2:G:2290:LEU:HD13	2:G:2295:LEU:HD21	1.99	0.45
2:G:2383:ALA:O	2:G:2386:ILE:HG22	2.17	0.45
2:G:2469:ILE:HG22	2:G:2502:MET:SD	2.55	0.45
2:G:2754:PHE:HA	2:G:2758:PHE:CB	2.44	0.45
2:G:4231:MET:HG3	2:G:4959:PHE:HE2	1.81	0.45
2:B:3218:VAL:O	2:B:3222:LYS:HB2	2.16	0.45
2:B:4021:LYS:NZ	2:B:4138:ASP:HB2	2.31	0.45
2:B:4104:THR:HG22	2:B:4107:GLU:OE2	2.16	0.45
2:B:4231:MET:HG3	2:B:4959:PHE:HE2	1.81	0.45
2:I:893:TYR:HB3	2:I:960:MET:HE2	1.98	0.45
2:I:1421:ARG:HE	2:I:1421:ARG:HB2	1.46	0.45
2:I:1829:PRO:O	2:I:1832:GLY:N	2.44	0.45
2:I:5011:TRP:CH2	6:I:5304:CFF:H142	2.52	0.45
2:A:345:LEU:HD22	2:A:387:ALA:HB3	1.98	0.45
2:A:1115:LEU:HD13	2:A:1193:SER:HB2	1.99	0.45
2:A:1827:ARG:C	2:A:1829:PRO:HD3	2.37	0.45
2:A:2031:LEU:HD11	2:A:3657:TYR:HE1	1.79	0.45
2:A:2155:LEU:CD1	2:A:2198:MET:CE	2.94	0.45
2:A:2377:LEU:O	2:A:2381:GLU:HG2	2.17	0.45
2:A:2470:ILE:HD13	2:A:2502:MET:SD	2.57	0.45
2:A:2894:LEU:CA	2:A:2897:LYS:HZ1	2.23	0.45
2:A:4021:LYS:NZ	2:A:4138:ASP:HB2	2.31	0.45
2:A:4214:LYS:O	2:A:4218:ILE:HG12	2.17	0.45
1:H:31:GLN:HA	1:H:98:ILE:HD13	1.96	0.45
1:J:23:VAL:HG12	1:J:45:PRO:HB3	1.99	0.45
2:G:924:MET:CE	2:G:924:MET:CA	2.95	0.45
2:G:1827:ARG:C	2:G:1829:PRO:HD3	2.37	0.45
2:G:3110:LEU:HD13	2:G:3175:LEU:HD11	1.99	0.45
2:G:3634:ALA:HA	2:G:3637:ARG:HD3	1.99	0.45
2:G:4104:THR:HG22	2:G:4107:GLU:OE2	2.16	0.45
2:G:4672:LYS:HB2	2:G:4672:LYS:HE2	1.63	0.45
2:B:347:PHE:CE2	2:B:387:ALA:HB2	2.51	0.45
2:B:1029:GLU:N	2:B:1029:GLU:OE2	2.50	0.45
2:B:1122:TYR:HE1	2:B:1133:HIS:NE2	2.14	0.45
2:B:1153:ILE:HG13	2:B:1160:ILE:HG12	1.99	0.45
2:B:1827:ARG:C	2:B:1829:PRO:HD3	2.37	0.45
2:B:2155:LEU:CD1	2:B:2198:MET:CE	2.94	0.45
2:B:2470:ILE:HD13	2:B:2502:MET:SD	2.57	0.45
2:B:2792:ARG:NH1	2:B:2801:ASP:OD2	2.50	0.45
2:B:2825:LYS:HD2	2:B:2933:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3768:SER:O	2:B:3772:THR:OG1	2.21	0.45
1:F:84:ALA:O	1:F:93:PRO:HB3	2.17	0.45
2:A:183:SER:O	2:A:183:SER:OG	2.28	0.45
2:A:869:ARG:HE	2:A:869:ARG:HB3	1.54	0.45
2:A:884:LEU:HB2	2:A:969:PRO:HD3	1.97	0.45
2:A:2003:GLN:HA	2:A:2006:ILE:HG22	1.98	0.45
2:A:2644:LEU:O	2:A:2648:TYR:HD2	2.00	0.45
2:A:3428:ASN:O	2:A:3432:GLU:HG2	2.16	0.45
2:A:4104:THR:HG22	2:A:4107:GLU:OE2	2.16	0.45
2:A:4189:ARG:HB2	2:A:4189:ARG:CZ	2.46	0.45
1:H:85:THR:CG2	1:H:86:GLY:N	2.78	0.45
1:O:84:ALA:O	1:O:93:PRO:HB3	2.17	0.45
2:G:575:LEU:HD22	2:G:609:CYS:HB2	1.99	0.45
2:G:826:ILE:HG22	2:G:827:LYS:H	1.80	0.45
2:G:2325:PRO:HG2	2:G:2421:ALA:HB1	1.97	0.45
2:G:2595:LEU:HD21	2:G:2599:GLN:NE2	2.31	0.45
2:G:3182:TYR:HA	2:G:3185:LYS:HD3	1.99	0.45
2:B:149:THR:O	2:B:171:LEU:HA	2.16	0.45
2:B:974:HIS:HB2	2:B:976:ARG:HH22	1.80	0.45
2:B:2742:THR:OG1	2:B:2814:LYS:HB3	2.17	0.45
2:B:3198:ALA:HB3	2:B:3279:SER:HB3	1.99	0.45
2:B:4721:LYS:NZ	2:B:4741:LEU:O	2.44	0.45
2:I:371:VAL:HG13	2:I:373:LYS:HZ1	1.82	0.45
2:I:974:HIS:HB2	2:I:976:ARG:HH22	1.80	0.45
2:I:1748:PHE:HE1	2:I:1760:HIS:CD2	2.32	0.45
2:I:1859:VAL:HA	2:I:1862:ILE:HD12	1.98	0.45
2:I:2261:SER:OG	2:I:2273:LEU:HB2	2.17	0.45
2:I:2297:LYS:HE3	2:I:2301:TYR:HE2	1.81	0.45
2:I:2555:CYS:CB	2:I:2599:GLN:HG3	2.47	0.45
2:I:2742:THR:OG1	2:I:2814:LYS:HB3	2.17	0.45
2:I:3110:LEU:HD13	2:I:3175:LEU:HD11	1.99	0.45
2:I:3198:ALA:HB3	2:I:3279:SER:HB3	1.99	0.45
2:I:3327:LEU:CD1	2:I:3368:ARG:NH2	2.71	0.45
2:I:3334:TRP:HZ3	2:I:3338:LEU:HD23	1.82	0.45
2:I:3427:PRO:HD2	2:I:3581:GLY:HA3	1.98	0.45
2:I:3547:GLU:O	2:I:3550:ARG:HD3	2.17	0.45
2:I:4214:LYS:O	2:I:4218:ILE:HG12	2.17	0.45
2:A:27:THR:OG1	2:A:32:GLN:OE1	2.35	0.45
2:A:266:ARG:CZ	2:A:330:ASP:HB2	2.46	0.45
2:A:575:LEU:HD22	2:A:609:CYS:HB2	1.99	0.45
2:A:651:GLY:N	2:A:658:GLN:OE1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1013:ILE:HB	2:A:1014:PRO:HD3	1.99	0.45
2:A:1153:ILE:HG13	2:A:1160:ILE:HG12	1.99	0.45
2:A:1595:LEU:HD12	2:A:1595:LEU:HA	1.78	0.45
2:A:2449:GLU:O	2:A:2453:ILE:HG12	2.16	0.45
2:A:2458:ARG:HD3	2:A:2509:VAL:HG12	1.98	0.45
2:A:2485:LEU:HD23	2:A:2541:PHE:CZ	2.52	0.45
2:A:3182:TYR:HA	2:A:3185:LYS:HD3	1.99	0.45
1:H:31:GLN:NE2	1:H:96:THR:CG2	2.79	0.45
1:J:84:ALA:O	1:J:93:PRO:HB3	2.17	0.45
2:G:345:LEU:HD22	2:G:387:ALA:HB3	1.98	0.45
2:G:1293:LEU:HD11	2:G:1594:ARG:HD3	1.97	0.45
2:G:2098:VAL:CG2	2:G:2101:MET:HE2	2.43	0.45
2:G:2462:PRO:HD2	2:G:2465:ASP:OD2	2.17	0.45
2:G:2973:PHE:CE2	2:G:2995:ILE:HG22	2.52	0.45
2:G:3081:MET:CE	2:G:3089:LYS:HA	2.47	0.45
2:G:3459:VAL:HG21	2:G:3503:TYR:CD2	2.52	0.45
2:G:3547:GLU:O	2:G:3550:ARG:HD3	2.17	0.45
2:B:266:ARG:CZ	2:B:330:ASP:HB2	2.46	0.45
2:B:813:GLU:HG2	2:B:1010:VAL:HG22	1.99	0.45
2:B:924:MET:HE2	2:B:927:GLU:CB	2.47	0.45
2:B:1293:LEU:HD11	2:B:1594:ARG:HD3	1.98	0.45
2:B:2003:GLN:HA	2:B:2006:ILE:HG22	1.98	0.45
2:B:2290:LEU:HD13	2:B:2295:LEU:HD21	1.99	0.45
2:B:2377:LEU:O	2:B:2381:GLU:HG2	2.17	0.45
2:B:2469:ILE:C	2:B:2502:MET:SD	2.95	0.45
2:B:2644:LEU:O	2:B:2648:TYR:HD2	2.00	0.45
2:B:3042:LEU:O	2:B:3046:LEU:HG	2.17	0.45
2:B:3068:LEU:CG	2:B:3139:VAL:HG21	2.33	0.45
2:B:3459:VAL:HG21	2:B:3503:TYR:CD2	2.52	0.45
2:B:4214:LYS:O	2:B:4218:ILE:HG12	2.17	0.45
2:B:4966:ASP:OD1	2:B:4967:TYR:N	2.50	0.45
2:I:576:ASN:ND2	2:I:2169:GLN:OE1	2.49	0.45
2:I:2383:ALA:O	2:I:2386:ILE:HG22	2.17	0.45
2:I:3144:PHE:O	2:I:3147:ILE:HG22	2.17	0.45
2:I:3204:ALA:HB2	2:I:3305:THR:HG22	1.99	0.45
2:I:3368:ARG:NH2	2:I:3404:ASP:OD2	2.46	0.45
2:I:3550:ARG:O	2:I:3554:GLN:OE1	2.35	0.45
2:I:4044:MET:O	2:I:4047:MET:HB3	2.16	0.45
2:A:1029:GLU:N	2:A:1029:GLU:OE2	2.50	0.45
2:A:2325:PRO:HG2	2:A:2421:ALA:HB1	1.97	0.45
2:A:2567:PRO:HA	2:A:2613:TYR:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2973:PHE:CE2	2:A:2995:ILE:HG22	2.52	0.45
2:A:3081:MET:CE	2:A:3089:LYS:HA	2.47	0.45
2:A:3110:LEU:HD13	2:A:3175:LEU:HD11	1.99	0.45
2:A:3459:VAL:HG21	2:A:3503:TYR:CD2	2.52	0.45
2:G:293:LEU:HD12	2:G:378:LEU:HD13	1.98	0.45
2:G:2261:SER:OG	2:G:2273:LEU:HB2	2.17	0.45
2:G:2377:LEU:O	2:G:2381:GLU:HG2	2.17	0.45
2:G:2470:ILE:HD13	2:G:2502:MET:SD	2.57	0.45
2:G:2825:LYS:HD2	2:G:2933:ASN:O	2.17	0.45
2:G:3150:HIS:CB	2:G:3152:PHE:CE1	2.97	0.45
2:G:3363:GLY:O	2:G:3367:LYS:HG3	2.17	0.45
2:G:4137:ARG:NH1	2:G:4199:GLU:OE2	2.47	0.45
2:B:293:LEU:HD12	2:B:378:LEU:HD13	1.98	0.45
2:B:2696:TYR:O	2:B:2700:MET:HE2	2.17	0.45
2:B:2967:MET:HE3	2:B:3045:LYS:CE	2.35	0.45
2:B:3846:ALA:HB1	2:B:3873:LYS:HG3	1.98	0.45
2:B:4868:ASP:OD1	2:B:4868:ASP:N	2.50	0.45
2:B:4967:TYR:HE2	2:B:5030:LYS:HG3	1.80	0.45
2:I:149:THR:O	2:I:171:LEU:HA	2.16	0.45
2:I:924:MET:CE	2:I:924:MET:CA	2.95	0.45
2:I:1000:ARG:HB2	2:I:1021:LEU:HD21	1.98	0.45
2:I:2431:ASP:O	2:I:2435:ARG:HG2	2.17	0.45
2:I:2469:ILE:C	2:I:2502:MET:SD	2.96	0.45
2:I:4189:ARG:HB2	2:I:4189:ARG:CZ	2.46	0.45
2:I:4212:GLU:CD	2:I:4215:ARG:HH12	2.20	0.45
2:A:1293:LEU:HD11	2:A:1594:ARG:HD3	1.98	0.44
2:A:2423:MET:HE3	2:A:2494:PHE:HD1	1.82	0.44
2:A:2742:THR:OG1	2:A:2814:LYS:HB3	2.17	0.44
2:A:3139:VAL:HA	2:A:3142:THR:HG22	2.00	0.44
1:J:68:LEU:HA	1:J:103:LEU:HD22	1.98	0.44
1:O:23:VAL:HG12	1:O:45:PRO:HB3	1.98	0.44
2:G:2339:VAL:HG21	2:G:2436:CYS:SG	2.57	0.44
2:G:2527:LEU:HG	2:G:2530:MET:HE3	1.99	0.44
2:G:2676:ARG:HE	2:G:2676:ARG:HB2	1.56	0.44
2:G:2792:ARG:NH1	2:G:2801:ASP:OD2	2.50	0.44
2:G:3428:ASN:O	2:G:3432:GLU:HG2	2.16	0.44
2:B:27:THR:OG1	2:B:32:GLN:OE1	2.35	0.44
2:B:2166:LEU:HD11	2:B:2206:THR:HG23	1.98	0.44
2:B:2555:CYS:CB	2:B:2599:GLN:HG3	2.47	0.44
2:B:3081:MET:CE	2:B:3089:LYS:HA	2.47	0.44
2:B:3110:LEU:HD13	2:B:3175:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:245:VAL:HG21	2:I:299:LEU:HD23	1.98	0.44
2:I:842:PRO:O	2:I:1197:GLY:N	2.32	0.44
2:I:1013:ILE:HB	2:I:1014:PRO:HD3	1.99	0.44
2:I:2290:LEU:HD13	2:I:2295:LEU:HD21	1.99	0.44
2:I:2792:ARG:NH1	2:I:2801:ASP:OD2	2.50	0.44
2:I:3363:GLY:O	2:I:3367:LYS:HG3	2.17	0.44
2:I:4021:LYS:NZ	2:I:4138:ASP:HB2	2.31	0.44
2:I:4721:LYS:NZ	2:I:4741:LEU:O	2.44	0.44
2:A:244:LEU:HD23	2:A:244:LEU:HA	1.85	0.44
2:A:797:HIS:CG	2:A:821:LEU:HD23	2.52	0.44
2:A:1859:VAL:HA	2:A:1862:ILE:HD12	1.98	0.44
2:A:2469:ILE:C	2:A:2502:MET:SD	2.95	0.44
2:A:3334:TRP:HZ3	2:A:3338:LEU:HD23	1.82	0.44
2:A:3550:ARG:O	2:A:3554:GLN:OE1	2.35	0.44
2:G:245:VAL:HG21	2:G:299:LEU:HD23	1.99	0.44
2:G:813:GLU:HG2	2:G:1010:VAL:HG22	1.99	0.44
2:G:1000:ARG:HB2	2:G:1021:LEU:HD21	1.98	0.44
2:G:1013:ILE:HB	2:G:1014:PRO:HD3	1.99	0.44
2:G:1029:GLU:OE2	2:G:1029:GLU:N	2.50	0.44
2:G:2133:GLU:OE1	2:G:2136:ARG:NH2	2.51	0.44
2:G:3395:ARG:HH22	2:G:3398:PHE:HD2	1.65	0.44
2:G:3545:THR:O	2:G:3548:GLU:HG3	2.16	0.44
2:G:4956:THR:HG23	2:G:4957:LYS:HG3	1.99	0.44
2:B:1972:ASN:OD1	2:B:1973:GLN:N	2.50	0.44
2:B:2261:SER:OG	2:B:2273:LEU:HB2	2.17	0.44
2:I:945:LYS:HB2	2:I:948:ASP:OD1	2.17	0.44
2:I:1827:ARG:C	2:I:1829:PRO:HD3	2.37	0.44
2:I:2166:LEU:HD11	2:I:2206:THR:HG23	1.98	0.44
2:I:2268:GLN:HG3	2:I:2269:GLY:N	2.30	0.44
2:I:2362:GLU:O	2:I:2369:ARG:NH1	2.51	0.44
2:I:2377:LEU:O	2:I:2381:GLU:HG2	2.17	0.44
2:I:2465:ASP:N	2:I:2465:ASP:OD1	2.50	0.44
2:I:2476:ILE:HG23	2:I:2536:LEU:HD11	1.98	0.44
2:I:3545:THR:O	2:I:3548:GLU:HG3	2.16	0.44
2:I:4979:THR:HG23	3:I:5301:ATP:C4	2.52	0.44
1:F:23:VAL:HG12	1:F:45:PRO:HB3	1.99	0.44
2:A:924:MET:HE1	2:A:927:GLU:CB	2.46	0.44
2:A:2098:VAL:CG2	2:A:2101:MET:CE	2.79	0.44
2:A:2339:VAL:HG23	2:A:2350:ALA:HA	1.99	0.44
2:A:2555:CYS:CB	2:A:2599:GLN:HG3	2.47	0.44
2:A:3042:LEU:O	2:A:3046:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3395:ARG:HH22	2:A:3398:PHE:HD2	1.65	0.44
1:H:84:ALA:O	1:H:93:PRO:HB3	2.17	0.44
1:J:7:ILE:HG23	2:I:719:LEU:HD11	1.99	0.44
2:G:161:GLU:HA	2:I:3984:ARG:HH22	1.83	0.44
2:G:687:ALA:O	2:G:777:PHE:HA	2.17	0.44
2:G:2339:VAL:HG23	2:G:2350:ALA:HA	1.99	0.44
2:G:2431:ASP:O	2:G:2435:ARG:HG2	2.17	0.44
2:G:2555:CYS:CB	2:G:2599:GLN:HG3	2.47	0.44
2:G:3427:PRO:HD2	2:G:3581:GLY:HA3	1.97	0.44
2:B:245:VAL:HG21	2:B:299:LEU:HD23	1.98	0.44
2:B:1039:LEU:N	2:B:1039:LEU:HD23	2.31	0.44
2:B:1423:ASP:OD1	2:B:1425:GLU:OE2	2.36	0.44
2:B:2485:LEU:HD23	2:B:2541:PHE:CZ	2.52	0.44
2:B:3363:GLY:O	2:B:3367:LYS:HG3	2.17	0.44
2:B:3545:THR:O	2:B:3548:GLU:HG3	2.16	0.44
2:B:4791:TYR:CE1	2:B:4818:MET:HE1	2.34	0.44
2:I:3846:ALA:HB1	2:I:3873:LYS:HG3	1.98	0.44
2:I:4680:LYS:HE2	2:I:4680:LYS:HB2	1.66	0.44
2:I:4731:ILE:HB	2:I:4732:PHE:CD2	2.53	0.44
2:A:699:GLY:HA3	2:A:705:ASN:ND2	2.32	0.44
2:A:2383:ALA:O	2:A:2386:ILE:HG22	2.17	0.44
2:A:2825:LYS:HD2	2:A:2933:ASN:O	2.17	0.44
2:A:3111:ARG:HH22	2:A:3175:LEU:HD13	1.82	0.44
2:A:3144:PHE:O	2:A:3147:ILE:HG22	2.18	0.44
2:A:3230:LEU:CB	2:A:3232:LEU:HD11	2.47	0.44
2:A:3330:ASP:OD1	2:A:3331:GLU:N	2.50	0.44
2:A:3545:THR:O	2:A:3548:GLU:HG3	2.16	0.44
2:A:4877:ASP:O	2:G:4582:VAL:HG12	2.17	0.44
2:A:4956:THR:HG23	2:A:4957:LYS:HG3	1.99	0.44
1:H:23:VAL:HG12	1:H:45:PRO:HB3	1.99	0.44
2:G:863:LEU:CD2	2:G:868:GLU:HB3	2.47	0.44
2:G:2362:GLU:O	2:G:2369:ARG:NH1	2.50	0.44
2:G:2469:ILE:CB	2:G:2502:MET:HE1	2.48	0.44
2:G:3369:ALA:HA	2:G:3372:VAL:HG12	2.00	0.44
2:G:4731:ILE:HB	2:G:4732:PHE:CD2	2.53	0.44
2:B:863:LEU:CD2	2:B:868:GLU:HB3	2.47	0.44
2:B:2268:GLN:HG3	2:B:2269:GLY:N	2.30	0.44
2:B:2465:ASP:OD1	2:B:2465:ASP:N	2.50	0.44
2:B:3080:VAL:CG1	2:B:3081:MET:HE3	2.41	0.44
2:B:3427:PRO:HD2	2:B:3581:GLY:HA3	1.98	0.44
2:B:3547:GLU:O	2:B:3550:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3634:ALA:HA	2:B:3637:ARG:HD3	1.99	0.44
2:B:4045:VAL:HB	2:B:4159:ARG:NH1	2.32	0.44
2:I:687:ALA:O	2:I:777:PHE:HA	2.17	0.44
2:I:1423:ASP:OD1	2:I:1425:GLU:OE2	2.36	0.44
2:I:1607:ARG:HB2	2:I:1652:GLU:HG2	1.99	0.44
2:I:2098:VAL:CB	2:I:2101:MET:HE2	2.48	0.44
2:I:2133:GLU:OE1	2:I:2136:ARG:NH2	2.51	0.44
2:I:2973:PHE:CE2	2:I:2995:ILE:HG22	2.52	0.44
2:I:3459:VAL:HG21	2:I:3503:TYR:CD2	2.52	0.44
2:I:3634:ALA:HA	2:I:3637:ARG:HD3	1.99	0.44
2:I:4868:ASP:N	2:I:4868:ASP:OD1	2.50	0.44
1:F:31:GLN:NE2	1:F:96:THR:CG2	2.79	0.44
2:A:2259:GLU:HA	2:A:2297:LYS:HE2	2.00	0.44
2:A:2339:VAL:HG21	2:A:2436:CYS:SG	2.57	0.44
2:G:1445:PRO:HG2	2:G:1501:VAL:HG11	2.00	0.44
2:G:2469:ILE:C	2:G:2502:MET:SD	2.95	0.44
2:G:3334:TRP:HZ3	2:G:3338:LEU:HD23	1.82	0.44
2:G:4680:LYS:HE3	2:G:4686:LEU:HD13	2.00	0.44
2:G:4868:ASP:N	2:G:4868:ASP:OD1	2.50	0.44
2:B:182:LEU:HA	2:B:190:GLN:O	2.18	0.44
2:B:945:LYS:HB2	2:B:948:ASP:OD1	2.17	0.44
2:B:1013:ILE:HB	2:B:1014:PRO:HD3	1.99	0.44
2:B:2098:VAL:CB	2:B:2101:MET:HE2	2.47	0.44
2:B:2133:GLU:OE1	2:B:2136:ARG:NH2	2.51	0.44
2:B:2339:VAL:HG21	2:B:2436:CYS:SG	2.57	0.44
2:B:2462:PRO:HD2	2:B:2465:ASP:OD2	2.17	0.44
2:B:2479:LEU:HA	2:B:2541:PHE:HZ	1.83	0.44
2:B:3139:VAL:HA	2:B:3142:THR:HG22	2.00	0.44
2:B:3169:LEU:HA	2:B:3172:ILE:HG22	1.99	0.44
2:B:4090:LYS:HG2	2:B:4123:ILE:HD11	1.99	0.44
2:I:1116:GLY:O	2:I:1134:LEU:N	2.51	0.44
2:I:2009:LEU:HD23	2:I:2022:PRO:HD2	2.00	0.44
2:I:2339:VAL:HG23	2:I:2350:ALA:HA	1.99	0.44
2:I:3111:ARG:HH22	2:I:3175:LEU:HD13	1.82	0.44
2:I:3230:LEU:CB	2:I:3232:LEU:HD11	2.47	0.44
2:I:4680:LYS:HE3	2:I:4686:LEU:HD13	2.00	0.44
2:A:299:LEU:HD12	2:A:299:LEU:HA	1.81	0.44
2:A:863:LEU:CD2	2:A:868:GLU:HB3	2.47	0.44
2:A:1737:PRO:HD3	2:A:1771:LEU:CD1	2.48	0.44
2:A:2462:PRO:HD2	2:A:2465:ASP:OD2	2.17	0.44
2:A:2479:LEU:HA	2:A:2541:PHE:HZ	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3150:HIS:CB	2:A:3152:PHE:CE1	2.97	0.44
2:A:3398:PHE:CD1	2:A:3451:PHE:HD1	2.36	0.44
2:A:4231:MET:HG3	2:A:4959:PHE:HE2	1.81	0.44
2:A:4680:LYS:HE3	2:A:4686:LEU:HD13	2.00	0.44
2:G:27:THR:OG1	2:G:32:GLN:OE1	2.35	0.44
2:G:875:ALA:HB1	2:G:922:LEU:HA	2.00	0.44
2:G:1737:PRO:HD3	2:G:1771:LEU:CD1	2.48	0.44
2:G:2479:LEU:HA	2:G:2541:PHE:HZ	1.83	0.44
2:G:2644:LEU:O	2:G:2648:TYR:HD2	2.00	0.44
2:G:3139:VAL:HA	2:G:3142:THR:HG22	2.00	0.44
2:G:4214:LYS:O	2:G:4218:ILE:HG12	2.17	0.44
2:B:575:LEU:HD22	2:B:609:CYS:HB2	1.99	0.44
2:B:1116:GLY:O	2:B:1134:LEU:N	2.51	0.44
2:B:2383:ALA:O	2:B:2386:ILE:HG22	2.17	0.44
2:B:2575:ARG:HH11	2:B:2578:MET:HE3	1.56	0.44
2:B:2619:LEU:HD23	2:B:2623:LEU:HG	2.00	0.44
2:B:2973:PHE:CE2	2:B:2995:ILE:HG22	2.52	0.44
2:B:2974:ILE:HG13	2:B:2975:ALA:N	2.32	0.44
2:B:3416:VAL:CG2	2:B:3517:MET:HE2	2.40	0.44
2:I:863:LEU:CD2	2:I:868:GLU:HB3	2.47	0.44
2:I:1029:GLU:N	2:I:1029:GLU:OE2	2.50	0.44
2:I:1420:ASN:OD1	2:I:1421:ARG:NE	2.49	0.44
2:I:2462:PRO:HD2	2:I:2465:ASP:OD2	2.17	0.44
2:I:2566:ALA:HA	2:I:2569:PHE:CD1	2.39	0.44
2:I:3369:ALA:HA	2:I:3372:VAL:HG12	2.00	0.44
2:I:4763:GLY:O	2:I:4766:THR:OG1	2.29	0.44
2:A:182:LEU:HA	2:A:190:GLN:O	2.18	0.44
2:A:1423:ASP:OD1	2:A:1425:GLU:OE2	2.36	0.44
2:A:2178:MET:HG3	2:A:2228:MET:SD	2.58	0.44
2:A:2327:GLY:HA2	2:A:2330:ARG:HE	1.83	0.44
2:A:2345:SER:OG	2:A:2508:ARG:NH2	2.51	0.44
2:A:2431:ASP:O	2:A:2435:ARG:HG2	2.17	0.44
2:A:2696:TYR:O	2:A:2700:MET:HE2	2.18	0.44
2:A:3169:LEU:HA	2:A:3172:ILE:HG22	1.99	0.44
2:A:4807:PHE:CE1	2:B:4879:MET:CE	3.01	0.44
2:G:699:GLY:HA3	2:G:705:ASN:ND2	2.32	0.44
2:G:1607:ARG:HB2	2:G:1652:GLU:HG2	1.99	0.44
2:B:2362:GLU:O	2:B:2369:ARG:NH1	2.51	0.44
2:B:2500:ALA:HA	2:B:2553:TYR:CE1	2.53	0.44
2:B:3284:TRP:CZ3	2:B:3287:ARG:HD2	2.53	0.44
2:B:3850:GLN:HB2	2:B:3873:LYS:HZ1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:699:GLY:HA3	2:I:705:ASN:ND2	2.32	0.44
2:I:2676:ARG:HE	2:I:2676:ARG:HB2	1.56	0.44
2:I:3284:TRP:CZ3	2:I:3287:ARG:HD2	2.53	0.44
2:A:149:THR:O	2:A:171:LEU:HA	2.16	0.44
2:A:875:ALA:HB1	2:A:922:LEU:HA	2.00	0.44
2:A:3145:GLN:NE2	2:A:3149:GLN:OE1	2.51	0.44
2:A:3363:GLY:O	2:A:3367:LYS:HG3	2.17	0.44
2:A:4979:THR:HG23	3:A:5301:ATP:C4	2.52	0.44
1:J:68:LEU:HD11	1:J:105:ASN:HA	1.99	0.44
1:O:68:LEU:HA	1:O:103:LEU:HD22	1.99	0.44
2:G:1859:VAL:HA	2:G:1862:ILE:HD12	1.98	0.44
2:G:2485:LEU:HD23	2:G:2541:PHE:CZ	2.52	0.44
2:G:2647:HIS:O	2:G:2651:CYS:N	2.51	0.44
2:G:3169:LEU:HA	2:G:3172:ILE:HG22	1.99	0.44
2:G:3284:TRP:CZ3	2:G:3287:ARG:HD2	2.53	0.44
2:G:3330:ASP:OD1	2:G:3331:GLU:N	2.50	0.44
2:G:3409:TYR:O	2:G:3412:LEU:N	2.51	0.44
2:B:2345:SER:OG	2:B:2508:ARG:NH2	2.51	0.44
2:B:3144:PHE:O	2:B:3147:ILE:HG22	2.18	0.44
2:B:3550:ARG:O	2:B:3554:GLN:OE1	2.35	0.44
2:B:4731:ILE:HB	2:B:4732:PHE:CD2	2.53	0.44
2:I:1228:ILE:HG22	2:I:1827:ARG:NH1	2.27	0.44
2:I:2485:LEU:HD23	2:I:2541:PHE:CZ	2.52	0.44
2:I:2619:LEU:HD23	2:I:2623:LEU:HG	2.00	0.44
2:I:2672:LEU:HD22	2:I:2710:LEU:HD23	2.00	0.44
2:I:2825:LYS:HD2	2:I:2933:ASN:O	2.17	0.44
2:I:3409:TYR:O	2:I:3412:LEU:N	2.51	0.44
2:I:4045:VAL:HB	2:I:4159:ARG:NH1	2.32	0.44
2:A:657:THR:HG22	2:A:1001:VAL:HG21	2.00	0.44
2:A:1445:PRO:HG2	2:A:1501:VAL:HG11	2.00	0.44
2:A:2792:ARG:NH1	2:A:2801:ASP:OD2	2.50	0.44
2:A:2804:ILE:HA	2:A:2807:TRP:CZ3	2.53	0.44
2:A:3198:ALA:HB3	2:A:3279:SER:HB3	1.99	0.44
2:A:3284:TRP:CZ3	2:A:3287:ARG:HD2	2.53	0.44
2:G:182:LEU:HA	2:G:190:GLN:O	2.18	0.44
2:G:945:LYS:HB2	2:G:948:ASP:OD1	2.17	0.44
2:G:979:PRO:O	2:G:983:THR:HG23	2.18	0.44
2:G:1983:ALA:C	2:G:1985:THR:H	2.22	0.44
2:G:2327:GLY:HA2	2:G:2330:ARG:HE	1.83	0.44
2:G:2785:LEU:HB3	2:G:2787:THR:HG22	2.00	0.44
2:G:3042:LEU:O	2:G:3046:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3550:ARG:O	2:G:3554:GLN:OE1	2.35	0.44
2:G:4839:MET:CB	2:I:4823:LEU:HD11	2.38	0.44
2:G:4865:LYS:NZ	2:G:4901:ILE:HA	2.33	0.44
2:G:4979:THR:HG23	3:G:5301:ATP:C4	2.52	0.44
2:B:869:ARG:NH1	2:B:870:ILE:HB	2.33	0.44
2:B:2672:LEU:HD22	2:B:2710:LEU:HD23	2.00	0.44
2:B:3182:TYR:HA	2:B:3185:LYS:HD3	1.99	0.44
2:B:3206:LEU:HD21	2:B:3276:MET:HE2	2.00	0.44
2:B:3965:LEU:O	2:B:3969:ILE:HG12	2.18	0.44
2:I:613:ALA:HB2	2:I:1676:LEU:HB2	2.00	0.44
2:I:797:HIS:CG	2:I:821:LEU:HD23	2.52	0.44
2:I:2500:ALA:HA	2:I:2553:TYR:CE1	2.53	0.44
2:I:2974:ILE:HG13	2:I:2975:ALA:N	2.32	0.44
2:I:3081:MET:CE	2:I:3089:LYS:HA	2.47	0.44
2:A:945:LYS:HB2	2:A:948:ASP:OD1	2.17	0.43
2:A:1170:MET:SD	2:A:1176:GLU:OE2	2.76	0.43
2:A:2135:LEU:CD1	2:A:3658:LYS:HG3	2.48	0.43
2:A:2302:LEU:HD21	2:A:2332:LEU:HD11	2.00	0.43
2:A:2465:ASP:N	2:A:2465:ASP:OD1	2.50	0.43
2:A:2785:LEU:HB3	2:A:2787:THR:HG22	2.00	0.43
2:A:3965:LEU:O	2:A:3969:ILE:HG12	2.18	0.43
2:A:4731:ILE:HB	2:A:4732:PHE:CD2	2.53	0.43
2:G:13:PHE:O	2:G:15:ARG:NH1	2.52	0.43
2:G:924:MET:HE1	2:G:927:GLU:CB	2.48	0.43
2:G:2696:TYR:CD2	2:G:3001:ILE:CD1	3.01	0.43
2:G:2974:ILE:HG13	2:G:2975:ALA:N	2.32	0.43
2:G:3145:GLN:NE2	2:G:3149:GLN:OE1	2.51	0.43
2:G:3456:GLN:O	2:G:3459:VAL:HG22	2.17	0.43
2:B:293:LEU:HD12	2:B:378:LEU:CD1	2.48	0.43
2:B:1737:PRO:HD3	2:B:1771:LEU:CD1	2.48	0.43
2:B:2615:ARG:NH1	2:B:2618:MET:HE2	2.24	0.43
2:B:2804:ILE:HA	2:B:2807:TRP:CZ3	2.53	0.43
2:B:3145:GLN:NE2	2:B:3149:GLN:OE1	2.51	0.43
2:B:3334:TRP:HZ3	2:B:3338:LEU:HD23	1.82	0.43
2:B:4677:LEU:HD23	2:B:4711:PHE:CZ	2.53	0.43
2:B:4688:ILE:HG21	2:B:4728:HIS:HB3	2.00	0.43
2:I:875:ALA:HB1	2:I:922:LEU:HA	2.00	0.43
2:I:1445:PRO:HG2	2:I:1501:VAL:HG11	2.00	0.43
2:I:1737:PRO:HD3	2:I:1771:LEU:CD1	2.48	0.43
2:I:3934:TYR:HA	2:I:3999:MET:CE	2.45	0.43
2:I:3965:LEU:O	2:I:3969:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4966:ASP:OD1	2:I:4967:TYR:N	2.50	0.43
1:F:106:LEU:HD23	1:F:106:LEU:HA	1.83	0.43
2:A:293:LEU:HD12	2:A:378:LEU:CD1	2.49	0.43
2:A:3003:LEU:HB2	2:A:3004:PRO:HD3	2.01	0.43
1:H:68:LEU:HA	1:H:103:LEU:HD22	1.99	0.43
1:H:68:LEU:HD11	1:H:105:ASN:HA	1.99	0.43
1:O:68:LEU:HD11	1:O:105:ASN:HA	1.99	0.43
2:G:293:LEU:HD12	2:G:378:LEU:CD1	2.49	0.43
2:G:1420:ASN:OD1	2:G:1421:ARG:NE	2.49	0.43
2:G:1433:TYR:CD2	2:G:1578:ALA:HB2	2.53	0.43
2:G:2466:LEU:O	2:G:2470:ILE:HG12	2.19	0.43
2:G:2500:ALA:HA	2:G:2553:TYR:CE1	2.53	0.43
2:G:2749:GLU:O	2:G:2752:ASP:HB2	2.18	0.43
2:G:3198:ALA:HB3	2:G:3279:SER:HB3	1.99	0.43
2:B:613:ALA:HB2	2:B:1676:LEU:HB2	2.00	0.43
2:B:699:GLY:HA3	2:B:705:ASN:ND2	2.32	0.43
2:B:2178:MET:HG3	2:B:2228:MET:SD	2.58	0.43
2:B:2339:VAL:HG23	2:B:2350:ALA:HA	1.99	0.43
2:B:2431:ASP:O	2:B:2435:ARG:HG2	2.17	0.43
2:B:2638:LYS:O	2:B:2698:MET:HE3	2.18	0.43
2:B:3078:ARG:HB2	2:B:3152:PHE:HD2	1.84	0.43
2:B:3111:ARG:HH22	2:B:3175:LEU:HD13	1.82	0.43
2:B:3194:LEU:HD13	2:B:3272:ILE:HG23	1.99	0.43
2:B:3398:PHE:CD1	2:B:3451:PHE:HD1	2.36	0.43
2:B:4979:THR:HG23	3:B:5301:ATP:C4	2.53	0.43
2:I:182:LEU:HA	2:I:190:GLN:O	2.18	0.43
2:I:379:HIS:CD2	2:I:380:GLN:N	2.87	0.43
2:I:575:LEU:HD22	2:I:609:CYS:HB2	1.99	0.43
2:I:869:ARG:NH1	2:I:870:ILE:HB	2.33	0.43
2:I:979:PRO:O	2:I:983:THR:HG23	2.18	0.43
2:I:2339:VAL:HG21	2:I:2436:CYS:SG	2.57	0.43
2:I:2749:GLU:O	2:I:2752:ASP:HB2	2.18	0.43
2:I:3003:LEU:HB2	2:I:3004:PRO:HD3	2.00	0.43
2:I:3139:VAL:HA	2:I:3142:THR:HG22	2.00	0.43
2:I:3169:LEU:HA	2:I:3172:ILE:HG22	1.99	0.43
2:I:4688:ILE:HG21	2:I:4728:HIS:HB3	2.00	0.43
2:A:979:PRO:O	2:A:983:THR:HG23	2.18	0.43
2:A:2466:LEU:O	2:A:2470:ILE:HG12	2.18	0.43
2:A:3002:LEU:O	2:A:3006:ILE:HG12	2.19	0.43
2:A:3544:ASP:HB2	2:A:3548:GLU:OE2	2.19	0.43
2:G:475:GLN:HB2	2:G:533:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1116:GLY:O	2:G:1134:LEU:N	2.51	0.43
2:G:2135:LEU:CD1	2:G:3658:LYS:HG3	2.49	0.43
2:G:2259:GLU:HA	2:G:2297:LYS:HE2	2.00	0.43
2:G:3194:LEU:HD13	2:G:3272:ILE:HG23	1.99	0.43
2:B:875:ALA:HB1	2:B:922:LEU:HA	2.00	0.43
2:B:2327:GLY:HA2	2:B:2330:ARG:HE	1.83	0.43
2:B:2696:TYR:CD2	2:B:3001:ILE:CD1	3.01	0.43
2:B:3036:LYS:NZ	2:B:3076:ASP:OD1	2.33	0.43
2:B:4680:LYS:HE3	2:B:4686:LEU:HD13	2.00	0.43
2:B:4865:LYS:NZ	2:B:4901:ILE:HA	2.33	0.43
2:B:4956:THR:HG23	2:B:4957:LYS:HG3	1.99	0.43
2:I:213:TYR:CE1	2:I:337:PRO:HB2	2.54	0.43
2:I:293:LEU:HD12	2:I:378:LEU:CD1	2.48	0.43
2:I:813:GLU:HG2	2:I:1010:VAL:HG22	1.99	0.43
2:I:3042:LEU:O	2:I:3046:LEU:HG	2.17	0.43
2:I:3456:GLN:O	2:I:3459:VAL:HG22	2.17	0.43
2:I:4090:LYS:HG2	2:I:4123:ILE:HD11	1.99	0.43
2:I:4677:LEU:HD23	2:I:4711:PHE:CZ	2.53	0.43
2:I:4865:LYS:NZ	2:I:4901:ILE:HA	2.33	0.43
2:A:25:SER:O	2:A:25:SER:OG	2.34	0.43
2:A:76:ARG:O	2:A:79:GLN:N	2.52	0.43
2:A:379:HIS:CD2	2:A:380:GLN:N	2.87	0.43
2:A:924:MET:CE	2:A:924:MET:CA	2.95	0.43
2:A:2133:GLU:OE1	2:A:2136:ARG:NH2	2.51	0.43
2:A:3530:GLN:OE1	2:A:3534:MET:HE2	2.18	0.43
2:A:4090:LYS:HG2	2:A:4123:ILE:HD11	1.99	0.43
2:G:20:VAL:HG21	2:G:202:MET:HE3	1.99	0.43
2:G:76:ARG:O	2:G:79:GLN:N	2.52	0.43
2:G:220:LEU:HD12	2:G:390:LEU:HB3	2.01	0.43
2:G:1297:PHE:CE2	2:G:1525:GLY:HA2	2.54	0.43
2:G:2178:MET:HG3	2:G:2228:MET:SD	2.58	0.43
2:G:2255:SER:O	2:G:2259:GLU:HG3	2.19	0.43
2:G:2742:THR:OG1	2:G:2814:LYS:HB3	2.17	0.43
2:G:3144:PHE:O	2:G:3147:ILE:HG22	2.18	0.43
2:G:3414:ARG:NH1	2:G:3469:PHE:O	2.52	0.43
2:G:4680:LYS:HE2	2:G:4680:LYS:HB2	1.66	0.43
2:B:426:ARG:HG3	2:B:430:PRO:O	2.19	0.43
2:B:710:ASP:OD1	2:B:710:ASP:N	2.47	0.43
2:B:1607:ARG:HB2	2:B:1652:GLU:HG2	1.99	0.43
2:B:2009:LEU:HD23	2:B:2022:PRO:HD2	2.00	0.43
2:B:3456:GLN:O	2:B:3459:VAL:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3544:ASP:HB2	2:B:3548:GLU:OE2	2.19	0.43
2:B:3858:MET:HE3	2:B:3865:VAL:HB	2.00	0.43
2:B:4640:GLU:HB3	2:B:4641:PRO:HD3	2.00	0.43
2:I:1994:ARG:HE	2:I:1994:ARG:N	2.16	0.43
2:I:2255:SER:O	2:I:2259:GLU:HG3	2.19	0.43
2:I:2655:TYR:HA	2:I:2667:THR:OG1	2.19	0.43
2:I:2680:TRP:HH2	2:I:2959:PHE:HA	1.83	0.43
2:I:4209:GLN:NE2	2:I:4560:TYR:CE1	2.87	0.43
1:F:68:LEU:HD11	1:F:105:ASN:HA	1.99	0.43
2:A:13:PHE:O	2:A:15:ARG:NH1	2.51	0.43
2:A:2261:SER:OG	2:A:2273:LEU:HB2	2.17	0.43
2:A:3078:ARG:HB2	2:A:3152:PHE:HD2	1.84	0.43
2:A:3369:ALA:HA	2:A:3372:VAL:HG12	2.00	0.43
2:A:3634:ALA:O	2:A:3638:MET:HG2	2.19	0.43
2:A:3718:GLU:CD	2:A:3723:MET:CE	2.87	0.43
1:H:106:LEU:HD23	1:H:106:LEU:HA	1.83	0.43
2:G:1994:ARG:HE	2:G:1994:ARG:N	2.16	0.43
2:G:2186:MET:O	2:G:2192:TYR:OH	2.22	0.43
2:G:3003:LEU:HB2	2:G:3004:PRO:HD3	2.00	0.43
2:G:3206:LEU:HD21	2:G:3276:MET:HE1	2.00	0.43
2:G:3398:PHE:CD1	2:G:3451:PHE:HD1	2.36	0.43
2:B:213:TYR:CE1	2:B:337:PRO:HB2	2.54	0.43
2:B:1170:MET:SD	2:B:1176:GLU:OE2	2.77	0.43
2:B:1994:ARG:HE	2:B:1994:ARG:N	2.16	0.43
2:B:2680:TRP:HH2	2:B:2959:PHE:HA	1.84	0.43
2:B:2700:MET:HE2	2:B:2700:MET:HB2	1.93	0.43
2:I:2479:LEU:HA	2:I:2541:PHE:HZ	1.83	0.43
2:I:3145:GLN:NE2	2:I:3149:GLN:OE1	2.51	0.43
2:A:213:TYR:CE1	2:A:337:PRO:HB2	2.54	0.43
2:A:652:ARG:NH2	2:A:750:LEU:O	2.52	0.43
2:A:1297:PHE:CE2	2:A:1525:GLY:HA2	2.54	0.43
2:A:1421:ARG:HE	2:A:1421:ARG:HB2	1.46	0.43
2:A:2556:LEU:HD23	2:A:2556:LEU:HA	1.87	0.43
2:A:3194:LEU:HD13	2:A:3272:ILE:HG23	1.99	0.43
2:A:3414:ARG:NH1	2:A:3469:PHE:O	2.52	0.43
2:A:3456:GLN:O	2:A:3459:VAL:HG22	2.17	0.43
2:G:379:HIS:CD2	2:G:380:GLN:N	2.87	0.43
2:G:1423:ASP:OD1	2:G:1425:GLU:OE2	2.36	0.43
2:G:2302:LEU:HD21	2:G:2332:LEU:HD11	2.00	0.43
2:G:2655:TYR:HA	2:G:2667:THR:OG1	2.19	0.43
2:G:2680:TRP:HH2	2:G:2959:PHE:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3718:GLU:CD	2:G:3723:MET:CE	2.87	0.43
2:G:4640:GLU:HB3	2:G:4641:PRO:HD3	2.00	0.43
2:B:797:HIS:CG	2:B:821:LEU:HD23	2.52	0.43
2:B:1228:ILE:HG22	2:B:1827:ARG:NH1	2.27	0.43
2:B:1445:PRO:HG2	2:B:1501:VAL:HG11	2.00	0.43
2:B:3002:LEU:O	2:B:3006:ILE:HG12	2.19	0.43
2:B:3230:LEU:CB	2:B:3232:LEU:HD11	2.47	0.43
2:B:3395:ARG:HH22	2:B:3398:PHE:HD2	1.65	0.43
2:B:3718:GLU:CD	2:B:3723:MET:CE	2.87	0.43
2:I:1433:TYR:CD2	2:I:1578:ALA:HB2	2.53	0.43
2:I:2155:LEU:CD1	2:I:2198:MET:CE	2.94	0.43
2:I:2277:ALA:HB1	2:I:2337:PHE:HD2	1.84	0.43
2:I:2466:LEU:O	2:I:2470:ILE:HG12	2.18	0.43
2:I:2696:TYR:CD2	2:I:3001:ILE:CD1	3.01	0.43
2:I:3078:ARG:HB2	2:I:3152:PHE:HD2	1.84	0.43
2:I:3395:ARG:HH22	2:I:3398:PHE:HD2	1.65	0.43
2:I:3634:ALA:O	2:I:3638:MET:HG2	2.19	0.43
2:A:869:ARG:NH1	2:A:870:ILE:HB	2.33	0.43
2:A:1607:ARG:HB2	2:A:1652:GLU:HG2	1.99	0.43
2:A:2283:ASN:ND2	2:A:2286:LEU:HD12	2.28	0.43
2:A:2562:ILE:HG21	2:A:2582:MET:HE3	2.00	0.43
2:A:2619:LEU:HD23	2:A:2623:LEU:HG	2.00	0.43
2:A:4209:GLN:NE2	2:A:4560:TYR:CE1	2.87	0.43
2:G:1170:MET:SD	2:G:1176:GLU:OE2	2.76	0.43
2:G:2277:ALA:HB1	2:G:2337:PHE:HD2	1.84	0.43
2:G:2762:THR:HB	2:G:2805:TYR:HE2	1.84	0.43
2:G:3544:ASP:HB2	2:G:3548:GLU:OE2	2.19	0.43
2:G:3705:PHE:CB	2:G:3778:MET:SD	3.07	0.43
2:G:4012:LEU:HD12	2:G:4012:LEU:HA	1.84	0.43
2:G:4677:LEU:HD23	2:G:4711:PHE:CZ	2.53	0.43
2:B:76:ARG:O	2:B:79:GLN:N	2.52	0.43
2:B:2302:LEU:HD21	2:B:2332:LEU:HD11	2.00	0.43
2:B:3369:ALA:HA	2:B:3372:VAL:HG12	2.00	0.43
2:B:3414:ARG:NH1	2:B:3469:PHE:O	2.52	0.43
2:B:3705:PHE:CB	2:B:3778:MET:SD	3.07	0.43
2:B:4209:GLN:NE2	2:B:4560:TYR:CE1	2.87	0.43
2:I:220:LEU:HD12	2:I:390:LEU:HB3	2.01	0.43
2:I:2259:GLU:HA	2:I:2297:LYS:HE2	2.00	0.43
2:I:2806:ARG:NH2	2:I:2809:ILE:HG22	2.34	0.43
2:I:2862:LEU:HD21	2:I:2931:GLN:HE21	1.83	0.43
2:A:220:LEU:HD12	2:A:390:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:475:GLN:HB2	2:A:533:ASN:HD21	1.83	0.43
2:A:1116:GLY:O	2:A:1134:LEU:N	2.51	0.43
2:A:2490:MET:CE	2:A:2546:MET:SD	3.07	0.43
2:A:2500:ALA:HA	2:A:2553:TYR:CE1	2.53	0.43
2:A:3014:CYS:SG	2:A:3015:LEU:N	2.92	0.43
2:A:4072:VAL:HG21	2:A:4129:ALA:HB2	2.00	0.43
2:A:4677:LEU:HD23	2:A:4711:PHE:CZ	2.53	0.43
2:A:4747:SER:HA	2:A:4750:ILE:HB	2.01	0.43
2:G:213:TYR:CE1	2:G:337:PRO:HB2	2.53	0.43
2:G:426:ARG:HG3	2:G:430:PRO:O	2.19	0.43
2:G:2098:VAL:CG2	2:G:2101:MET:HE1	2.35	0.43
2:G:2547:ALA:O	2:G:2551:ASN:OD1	2.37	0.43
2:G:4966:ASP:OD1	2:G:4967:TYR:N	2.50	0.43
2:B:379:HIS:CD2	2:B:380:GLN:N	2.86	0.43
2:B:2369:ARG:HA	2:B:2369:ARG:HE	1.84	0.43
2:B:2967:MET:O	2:B:2970:SER:OG	2.29	0.43
2:I:20:VAL:HG21	2:I:202:MET:HE2	2.00	0.43
2:I:76:ARG:O	2:I:79:GLN:N	2.52	0.43
2:I:700:GLU:H	2:I:705:ASN:HD21	1.67	0.43
2:I:870:ILE:HD12	2:I:870:ILE:HA	1.88	0.43
2:I:2178:MET:HG3	2:I:2228:MET:SD	2.58	0.43
2:I:2302:LEU:HD21	2:I:2332:LEU:HD11	2.00	0.43
2:I:2490:MET:CE	2:I:2546:MET:SD	3.07	0.43
2:I:2644:LEU:O	2:I:2648:TYR:HD2	2.00	0.43
2:I:3194:LEU:HD13	2:I:3272:ILE:HG23	1.99	0.43
2:I:3197:LEU:HD23	2:I:3197:LEU:C	2.39	0.43
2:I:4747:SER:HA	2:I:4750:ILE:HB	2.01	0.43
1:F:57:LYS:O	1:F:61:GLU:OE1	2.37	0.43
2:A:555:GLU:HG2	2:A:556:ALA:N	2.34	0.43
2:A:861:ILE:CG2	2:A:933:LEU:CD1	2.97	0.43
2:A:2009:LEU:HD23	2:A:2022:PRO:HD2	2.00	0.43
2:A:2647:HIS:O	2:A:2651:CYS:N	2.51	0.43
2:G:657:THR:HG22	2:G:1001:VAL:HG21	2.00	0.43
2:G:2566:ALA:HA	2:G:2569:PHE:CD1	2.39	0.43
2:G:2638:LYS:O	2:G:2698:MET:HE3	2.18	0.43
2:G:3965:LEU:O	2:G:3969:ILE:HG12	2.18	0.43
2:G:4569:LEU:HD11	2:G:4649:LEU:HD23	2.01	0.43
2:G:4688:ILE:HG21	2:G:4728:HIS:HB3	2.00	0.43
2:B:220:LEU:HD12	2:B:390:LEU:HB3	2.01	0.43
2:B:299:LEU:HD12	2:B:299:LEU:HA	1.81	0.43
2:B:555:GLU:HG2	2:B:556:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2135:LEU:CD1	2:B:3658:LYS:HG3	2.48	0.43
2:B:2547:ALA:O	2:B:2551:ASN:OD1	2.37	0.43
2:B:3140:LEU:HD12	2:B:3140:LEU:HA	1.81	0.43
2:B:4791:TYR:HE1	2:B:4818:MET:HE1	1.76	0.43
2:I:27:THR:OG1	2:I:32:GLN:OE1	2.35	0.43
2:I:3002:LEU:O	2:I:3006:ILE:HG12	2.19	0.43
2:I:3206:LEU:HD21	2:I:3276:MET:HE2	2.00	0.43
2:I:4072:VAL:HG21	2:I:4129:ALA:HB2	2.00	0.43
2:A:1283:LEU:HD12	2:A:1283:LEU:HA	1.93	0.43
2:A:2362:GLU:O	2:A:2369:ARG:NH1	2.51	0.43
2:A:2440:MET:HB3	2:A:2444:GLN:HE22	1.84	0.43
2:A:2696:TYR:CD2	2:A:3001:ILE:CD1	3.01	0.43
2:A:2749:GLU:O	2:A:2752:ASP:HB2	2.19	0.43
2:A:4045:VAL:HB	2:A:4159:ARG:NH1	2.32	0.43
2:A:4753:HIS:CG	2:A:4754:ASN:H	2.37	0.43
1:H:57:LYS:O	1:H:61:GLU:OE1	2.37	0.43
2:G:555:GLU:HG2	2:G:556:ALA:N	2.34	0.43
2:G:2009:LEU:HD23	2:G:2022:PRO:HD2	2.00	0.43
2:G:2804:ILE:HA	2:G:2807:TRP:CZ3	2.53	0.43
2:G:4061:PHE:HZ	2:G:4132:PHE:CD1	2.37	0.43
2:G:4636:THR:CG2	2:G:4639:MET:HE3	2.49	0.43
2:B:1433:TYR:CD2	2:B:1578:ALA:HB2	2.53	0.43
2:B:2290:LEU:HD11	2:B:2338:ALA:HB1	2.01	0.43
2:B:2749:GLU:O	2:B:2752:ASP:HB2	2.18	0.43
2:B:3219:TYR:HE1	2:B:3232:LEU:HD22	1.84	0.43
2:I:227:MET:HE3	2:I:389:PHE:HD2	1.80	0.43
2:I:555:GLU:HG2	2:I:556:ALA:N	2.34	0.43
2:I:861:ILE:CG2	2:I:933:LEU:CD1	2.97	0.43
2:I:2135:LEU:CD1	2:I:3658:LYS:HG3	2.49	0.43
2:I:2423:MET:HE3	2:I:2494:PHE:HD1	1.84	0.43
2:I:2655:TYR:CE1	2:I:2675:THR:HG21	2.54	0.43
2:I:2754:PHE:HA	2:I:2758:PHE:CB	2.44	0.43
2:I:3330:ASP:OD1	2:I:3331:GLU:N	2.50	0.43
2:I:3398:PHE:CD1	2:I:3451:PHE:HD1	2.36	0.43
2:I:3417:ASP:OD1	2:I:3418:ASN:N	2.52	0.43
2:I:3858:MET:HE3	2:I:3865:VAL:HB	2.01	0.43
2:A:1994:ARG:HE	2:A:1994:ARG:N	2.16	0.42
2:A:2255:SER:O	2:A:2259:GLU:HG3	2.19	0.42
2:A:2369:ARG:HA	2:A:2369:ARG:HE	1.84	0.42
2:A:2696:TYR:CD2	2:A:3001:ILE:CG1	3.02	0.42
2:A:3417:ASP:OD1	2:A:3418:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4061:PHE:HZ	2:A:4132:PHE:CD1	2.37	0.42
2:A:4914:VAL:HG11	2:G:4884:LEU:HD11	2.00	0.42
1:O:7:ILE:HD11	1:O:73:LYS:HB2	2.01	0.42
2:G:652:ARG:NH2	2:G:750:LEU:O	2.52	0.42
2:G:900:ASN:O	2:G:901:LYS:HE2	2.19	0.42
2:G:2655:TYR:CE1	2:G:2675:THR:HG21	2.54	0.42
2:G:2672:LEU:HD22	2:G:2710:LEU:HD23	2.00	0.42
2:G:3078:ARG:HB2	2:G:3152:PHE:HD2	1.84	0.42
2:G:3230:LEU:CB	2:G:3232:LEU:HD11	2.47	0.42
2:G:4045:VAL:HB	2:G:4159:ARG:NH1	2.32	0.42
2:B:700:GLU:H	2:B:705:ASN:HD21	1.66	0.42
2:B:861:ILE:CG2	2:B:933:LEU:CD1	2.97	0.42
2:B:979:PRO:O	2:B:983:THR:HG23	2.18	0.42
2:B:1985:THR:C	2:B:1987:SER:H	2.23	0.42
2:B:2259:GLU:HA	2:B:2297:LYS:HE2	2.00	0.42
2:B:2862:LEU:HD21	2:B:2931:GLN:HE21	1.83	0.42
2:B:2950:SER:O	2:B:2953:LYS:HG2	2.19	0.42
2:B:3417:ASP:OD1	2:B:3418:ASN:N	2.52	0.42
2:B:3984:ARG:HE	2:B:3984:ARG:HB2	1.53	0.42
2:B:4072:VAL:HG21	2:B:4129:ALA:HB2	2.00	0.42
2:I:426:ARG:HG3	2:I:430:PRO:O	2.19	0.42
2:I:1170:MET:SD	2:I:1176:GLU:OE2	2.76	0.42
2:I:2785:LEU:HB3	2:I:2787:THR:HG22	2.00	0.42
2:I:2804:ILE:HA	2:I:2807:TRP:CZ3	2.53	0.42
2:I:3718:GLU:CD	2:I:3723:MET:CE	2.87	0.42
2:A:426:ARG:HG3	2:A:430:PRO:O	2.19	0.42
2:A:3695:PRO:HB3	2:A:3699:HIS:CD2	2.54	0.42
1:H:7:ILE:HD11	1:H:73:LYS:HB2	2.01	0.42
2:G:2619:LEU:HD23	2:G:2623:LEU:HG	2.00	0.42
2:G:3002:LEU:O	2:G:3006:ILE:HG12	2.19	0.42
2:G:3400:VAL:HG22	2:G:3403:ARG:HH11	1.84	0.42
2:G:3634:ALA:O	2:G:3638:MET:HG2	2.19	0.42
2:G:4072:VAL:HG21	2:G:4129:ALA:HB2	2.00	0.42
2:G:4209:GLN:NE2	2:G:4560:TYR:CE1	2.87	0.42
2:B:2377:LEU:HD12	2:B:2468:GLY:HA3	2.01	0.42
2:B:2466:LEU:O	2:B:2470:ILE:HG12	2.18	0.42
2:B:2490:MET:CE	2:B:2546:MET:SD	3.07	0.42
2:B:2655:TYR:HA	2:B:2667:THR:OG1	2.19	0.42
2:B:3003:LEU:HB2	2:B:3004:PRO:HD3	2.01	0.42
2:B:3197:LEU:HD23	2:B:3197:LEU:C	2.39	0.42
2:B:3695:PRO:HB3	2:B:3699:HIS:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3980:LEU:HA	2:B:3980:LEU:HD23	1.77	0.42
2:I:299:LEU:HD12	2:I:299:LEU:HA	1.81	0.42
2:I:2649:GLU:HG3	2:I:2705:ALA:HB2	2.01	0.42
2:I:3705:PHE:CB	2:I:3778:MET:SD	3.07	0.42
2:I:4636:THR:CG2	2:I:4639:MET:HE3	2.49	0.42
2:A:2290:LEU:HD11	2:A:2338:ALA:HB1	2.01	0.42
2:A:2547:ALA:O	2:A:2551:ASN:OD1	2.37	0.42
2:A:2649:GLU:HG3	2:A:2705:ALA:HB2	2.01	0.42
2:A:2694:GLU:HA	2:A:2697:ARG:HB3	2.00	0.42
2:A:3858:MET:HE3	2:A:3865:VAL:HB	2.02	0.42
2:G:2750:LYS:NZ	2:G:2824:GLU:OE1	2.37	0.42
2:G:2862:LEU:HD21	2:G:2931:GLN:HE21	1.83	0.42
2:G:3078:ARG:HG3	2:G:3155:ASP:OD2	2.20	0.42
2:G:3695:PRO:HB3	2:G:3699:HIS:CD2	2.54	0.42
2:G:4090:LYS:HG2	2:G:4123:ILE:HD11	1.99	0.42
2:B:475:GLN:CB	2:B:533:ASN:HD21	2.33	0.42
2:B:2255:SER:O	2:B:2259:GLU:HG3	2.19	0.42
2:B:2297:LYS:HE3	2:B:2301:TYR:CE2	2.55	0.42
2:B:2440:MET:HB3	2:B:2444:GLN:HE22	1.84	0.42
2:B:2647:HIS:O	2:B:2651:CYS:N	2.51	0.42
2:B:2785:LEU:HB3	2:B:2787:THR:HG22	2.00	0.42
2:B:4569:LEU:HD11	2:B:4649:LEU:HD23	2.01	0.42
2:B:4753:HIS:CG	2:B:4754:ASN:H	2.37	0.42
2:I:13:PHE:O	2:I:15:ARG:NH1	2.52	0.42
2:I:475:GLN:HB2	2:I:533:ASN:HD21	1.83	0.42
2:I:494:LEU:HD23	2:I:494:LEU:HA	1.79	0.42
2:I:900:ASN:O	2:I:901:LYS:HE2	2.19	0.42
2:I:1927:LEU:HD23	2:I:1927:LEU:HA	1.87	0.42
2:I:2377:LEU:HD12	2:I:2468:GLY:HA3	2.01	0.42
2:I:2527:LEU:HG	2:I:2530:MET:HE3	2.02	0.42
2:I:2696:TYR:O	2:I:2700:MET:HG3	2.19	0.42
2:I:3219:TYR:HE1	2:I:3232:LEU:HD22	1.84	0.42
2:I:3531:ASP:N	2:I:3531:ASP:OD1	2.52	0.42
2:I:4205:TRP:CZ3	2:I:4989:MET:CE	3.03	0.42
2:A:177:GLU:HB3	2:G:2359:ARG:HH12	1.85	0.42
2:A:2093:SER:OG	2:A:2095:GLN:OE1	2.38	0.42
2:A:2297:LYS:HE3	2:A:2301:TYR:CE2	2.55	0.42
2:A:2655:TYR:HA	2:A:2667:THR:OG1	2.19	0.42
2:A:2696:TYR:O	2:A:2700:MET:HG3	2.19	0.42
2:A:2967:MET:HE3	2:A:3045:LYS:CE	2.35	0.42
2:A:4640:GLU:HB3	2:A:4641:PRO:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4865:LYS:NZ	2:A:4901:ILE:HA	2.33	0.42
2:A:4966:ASP:OD1	2:A:4967:TYR:N	2.50	0.42
2:G:842:PRO:O	2:G:1197:GLY:N	2.32	0.42
2:G:1561:VAL:HG12	2:G:1562:ILE:HG23	2.01	0.42
2:G:2291:GLN:O	2:G:2294:ASP:N	2.48	0.42
2:G:2440:MET:HB3	2:G:2444:GLN:HE22	1.84	0.42
2:G:2551:ASN:HB3	2:G:2599:GLN:NE2	2.26	0.42
2:G:2649:GLU:HG3	2:G:2705:ALA:HB2	2.01	0.42
2:G:3570:ARG:HE	2:G:3570:ARG:HB3	1.74	0.42
2:G:4753:HIS:CG	2:G:4754:ASN:H	2.37	0.42
2:B:371:VAL:HG13	2:B:373:LYS:HZ1	1.84	0.42
2:B:1228:ILE:HD12	2:B:1228:ILE:HA	1.77	0.42
2:B:2093:SER:OG	2:B:2095:GLN:OE1	2.38	0.42
2:B:2655:TYR:CE1	2:B:2675:THR:HG21	2.54	0.42
2:B:2806:ARG:NH2	2:B:2809:ILE:HG22	2.34	0.42
2:B:2964:LEU:HD21	2:B:3042:LEU:CD1	2.38	0.42
2:B:3330:ASP:OD1	2:B:3331:GLU:N	2.50	0.42
2:B:4572:ALA:O	2:B:4576:ILE:HG12	2.20	0.42
2:B:4747:SER:HA	2:B:4750:ILE:HB	2.00	0.42
2:I:29:LEU:C	2:I:31:GLU:OE1	2.58	0.42
2:I:475:GLN:CB	2:I:533:ASN:HD21	2.33	0.42
2:I:1087:ARG:NH2	2:I:1221:GLU:O	2.53	0.42
2:I:1983:ALA:C	2:I:1985:THR:H	2.22	0.42
2:I:2290:LEU:HD11	2:I:2338:ALA:HB1	2.01	0.42
2:I:2345:SER:OG	2:I:2508:ARG:NH2	2.51	0.42
2:I:2433:LEU:HD23	2:I:2433:LEU:HA	1.89	0.42
2:I:2967:MET:O	2:I:2970:SER:OG	2.30	0.42
2:I:3544:ASP:HB2	2:I:3548:GLU:OE2	2.19	0.42
2:I:4640:GLU:HB3	2:I:4641:PRO:HD3	2.00	0.42
2:A:700:GLU:H	2:A:705:ASN:HD21	1.66	0.42
2:A:1433:TYR:CD2	2:A:1578:ALA:HB2	2.53	0.42
2:A:1985:THR:C	2:A:1987:SER:H	2.23	0.42
2:A:2485:LEU:CD2	2:A:2541:PHE:CZ	3.03	0.42
2:A:2871:LEU:HD23	2:A:2874:MET:SD	2.60	0.42
2:A:3219:TYR:HE1	2:A:3232:LEU:HD22	1.84	0.42
2:A:4114:CYS:O	2:A:4131:ARG:NH2	2.52	0.42
2:A:4868:ASP:OD1	2:A:4868:ASP:N	2.50	0.42
2:A:5013:MET:HE1	2:A:5021:PHE:HB3	2.00	0.42
1:H:7:ILE:HG23	2:G:719:LEU:HD11	2.00	0.42
2:G:861:ILE:CG2	2:G:933:LEU:CD1	2.97	0.42
2:G:869:ARG:NH1	2:G:870:ILE:HB	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:927:GLU:HA	2:G:930:LYS:HD3	2.01	0.42
2:G:2490:MET:CE	2:G:2546:MET:SD	3.07	0.42
2:G:2696:TYR:O	2:G:2700:MET:HG3	2.19	0.42
2:B:227:MET:CE	2:B:389:PHE:CD2	2.97	0.42
2:B:900:ASN:O	2:B:901:LYS:HE2	2.19	0.42
2:B:946:ALA:HB2	2:B:1048:GLY:O	2.20	0.42
2:B:1983:ALA:C	2:B:1985:THR:H	2.22	0.42
2:B:2485:LEU:CD2	2:B:2541:PHE:CZ	3.03	0.42
2:B:2540:THR:OG1	2:B:2541:PHE:HD2	2.03	0.42
2:B:4061:PHE:HZ	2:B:4132:PHE:CD1	2.37	0.42
2:B:4711:PHE:HB3	2:B:4712:PRO:HD3	2.02	0.42
2:I:1595:LEU:HD12	2:I:1595:LEU:HA	1.78	0.42
2:I:2950:SER:O	2:I:2953:LYS:HG2	2.20	0.42
2:I:3203:VAL:HG13	2:I:3205:PHE:N	2.35	0.42
2:I:3414:ARG:NH1	2:I:3469:PHE:O	2.52	0.42
2:I:4061:PHE:HZ	2:I:4132:PHE:CD1	2.37	0.42
2:I:4722:ARG:NE	2:I:4748:LEU:HD11	2.35	0.42
2:A:1105:ALA:HB2	2:A:1191:VAL:HG11	2.01	0.42
2:A:1277:TRP:HB3	2:A:1559:GLN:HB3	2.01	0.42
2:A:2672:LEU:HD22	2:A:2710:LEU:HD23	2.00	0.42
2:A:2862:LEU:HD21	2:A:2931:GLN:HE21	1.83	0.42
2:A:3570:ARG:NH1	2:B:1229:ASN:OD1	2.53	0.42
2:A:3934:TYR:HA	2:A:3999:MET:CE	2.45	0.42
2:A:4688:ILE:HG21	2:A:4728:HIS:HB3	2.00	0.42
2:A:4815:ASP:HA	2:A:4818:MET:HE1	2.00	0.42
2:G:613:ALA:HB2	2:G:1676:LEU:HB2	2.00	0.42
2:G:721:LEU:HD22	2:G:768:PHE:CE2	2.55	0.42
2:G:2645:THR:HG1	2:G:2702:CYS:HG	1.54	0.42
2:G:3014:CYS:SG	2:G:3015:LEU:N	2.92	0.42
2:G:3203:VAL:HG13	2:G:3205:PHE:N	2.35	0.42
2:G:4791:TYR:CD1	2:G:4818:MET:HE3	2.44	0.42
2:B:652:ARG:NH2	2:B:750:LEU:O	2.52	0.42
2:B:829:TYR:CE1	2:B:1608:MET:HG2	2.55	0.42
2:B:870:ILE:HD12	2:B:870:ILE:HA	1.88	0.42
2:B:1087:ARG:NH2	2:B:1221:GLU:O	2.53	0.42
2:B:1561:VAL:HG12	2:B:1562:ILE:HG23	2.01	0.42
2:B:2423:MET:CE	2:B:2494:PHE:HD1	2.33	0.42
2:B:2745:VAL:HG21	2:B:2818:ALA:HA	2.01	0.42
2:B:2762:THR:HB	2:B:2805:TYR:HE2	1.84	0.42
2:B:3014:CYS:SG	2:B:3015:LEU:N	2.92	0.42
2:B:3203:VAL:HG13	2:B:3205:PHE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4205:TRP:CZ3	2:B:4989:MET:CE	3.03	0.42
2:I:829:TYR:CE1	2:I:1608:MET:HG2	2.55	0.42
2:I:1297:PHE:CE2	2:I:1525:GLY:HA2	2.54	0.42
2:I:2696:TYR:CD2	2:I:3001:ILE:CG1	3.02	0.42
2:I:3014:CYS:SG	2:I:3015:LEU:N	2.92	0.42
2:I:3400:VAL:HG22	2:I:3403:ARG:HH11	1.84	0.42
2:I:4634:GLU:HG3	2:I:4639:MET:CG	2.46	0.42
2:A:29:LEU:C	2:A:31:GLU:OE1	2.58	0.42
2:A:900:ASN:O	2:A:901:LYS:HE2	2.19	0.42
2:A:900:ASN:HA	2:A:904:HIS:CE1	2.55	0.42
2:A:927:GLU:HA	2:A:930:LYS:HD3	2.01	0.42
2:A:1925:GLY:H	2:A:1928:GLN:HB2	1.85	0.42
2:A:1983:ALA:C	2:A:1985:THR:H	2.22	0.42
2:A:2155:LEU:CD1	2:A:2198:MET:HE3	2.43	0.42
2:A:2377:LEU:HD12	2:A:2468:GLY:HA3	2.01	0.42
2:A:2527:LEU:HG	2:A:2530:MET:HE3	2.02	0.42
2:A:3078:ARG:HG3	2:A:3155:ASP:OD2	2.20	0.42
2:A:3409:TYR:O	2:A:3412:LEU:N	2.51	0.42
2:A:3705:PHE:CB	2:A:3778:MET:SD	3.07	0.42
2:A:3836:MET:CE	2:A:3885:PHE:HE1	2.09	0.42
2:G:29:LEU:C	2:G:31:GLU:OE1	2.58	0.42
2:G:829:TYR:CE1	2:G:1608:MET:HG2	2.55	0.42
2:G:900:ASN:HA	2:G:904:HIS:CE1	2.55	0.42
2:G:1277:TRP:HB3	2:G:1559:GLN:HB3	2.01	0.42
2:G:2283:ASN:ND2	2:G:2286:LEU:HD12	2.28	0.42
2:G:2696:TYR:CD2	2:G:3001:ILE:CG1	3.02	0.42
2:G:3916:ILE:HD12	2:G:3916:ILE:H	1.85	0.42
2:B:13:PHE:O	2:B:15:ARG:NH1	2.51	0.42
2:B:657:THR:HG22	2:B:1001:VAL:HG21	2.00	0.42
2:B:2332:LEU:HD23	2:B:2429:LEU:CA	2.50	0.42
2:B:2556:LEU:HD23	2:B:2556:LEU:HA	1.87	0.42
2:B:2649:GLU:HG3	2:B:2705:ALA:HB2	2.01	0.42
2:B:2871:LEU:HD23	2:B:2874:MET:SD	2.60	0.42
2:I:657:THR:HG22	2:I:1001:VAL:HG21	2.00	0.42
2:I:2297:LYS:HE3	2:I:2301:TYR:CE2	2.55	0.42
2:I:2327:GLY:HA2	2:I:2330:ARG:HE	1.83	0.42
2:I:2440:MET:HB3	2:I:2444:GLN:HE22	1.84	0.42
2:I:2692:ASP:HB3	2:I:2695:LEU:HB3	2.02	0.42
2:I:3166:TYR:OH	2:I:3203:VAL:HG11	2.20	0.42
2:I:4182:GLU:HG2	2:I:4192:ARG:HG2	2.02	0.42
2:A:721:LEU:HD22	2:A:768:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:929:LEU:HD23	2:A:932:LEU:HD12	2.02	0.42
2:A:2277:ALA:HB1	2:A:2337:PHE:HD2	1.84	0.42
2:A:2423:MET:CE	2:A:2494:PHE:HD1	2.33	0.42
2:A:2433:LEU:HD23	2:A:2433:LEU:HA	1.89	0.42
2:A:2655:TYR:CE1	2:A:2675:THR:HG21	2.54	0.42
2:A:4636:THR:CG2	2:A:4639:MET:HE3	2.49	0.42
2:A:4934:GLY:CA	2:G:4937:ILE:HD12	2.50	0.42
2:G:165:VAL:HG13	2:G:204:PRO:HD3	2.02	0.42
2:G:946:ALA:HB2	2:G:1048:GLY:O	2.20	0.42
2:G:1925:GLY:H	2:G:1928:GLN:HB2	1.85	0.42
2:G:2377:LEU:HB2	2:G:2465:ASP:HA	2.02	0.42
2:G:2950:SER:O	2:G:2953:LYS:HG2	2.20	0.42
2:G:4001:MET:HE1	2:G:4061:PHE:HB2	2.01	0.42
2:B:721:LEU:HD22	2:B:768:PHE:CE2	2.55	0.42
2:B:1297:PHE:CE2	2:B:1525:GLY:HA2	2.54	0.42
2:B:2345:SER:HG	2:B:2508:ARG:HH22	1.68	0.42
2:B:3984:ARG:HH22	2:I:161:GLU:HA	1.84	0.42
2:B:5009:TYR:CE2	2:B:5013:MET:CE	3.03	0.42
2:I:663:TYR:CE1	2:I:745:SER:HB3	2.55	0.42
2:I:721:LEU:HD22	2:I:768:PHE:CE2	2.55	0.42
2:I:2500:ALA:CB	2:I:2553:TYR:CE1	3.03	0.42
2:I:2694:GLU:HA	2:I:2697:ARG:HB3	2.00	0.42
2:A:475:GLN:CB	2:A:533:ASN:HD21	2.33	0.42
2:A:663:TYR:CE1	2:A:745:SER:HB3	2.55	0.42
2:A:1734:TYR:HE2	2:A:2137:ALA:HB1	1.85	0.42
2:A:2762:THR:HB	2:A:2805:TYR:HE2	1.84	0.42
2:A:2806:ARG:NH2	2:A:2809:ILE:HG22	2.34	0.42
2:A:3203:VAL:HG13	2:A:3205:PHE:N	2.35	0.42
2:A:4569:LEU:HD11	2:A:4649:LEU:HD23	2.01	0.42
2:A:4634:GLU:HG3	2:A:4639:MET:CG	2.46	0.42
2:G:299:LEU:HD12	2:G:299:LEU:HA	1.81	0.42
2:G:700:GLU:H	2:G:705:ASN:HD21	1.66	0.42
2:G:929:LEU:HD23	2:G:932:LEU:HD12	2.02	0.42
2:G:1985:THR:C	2:G:1987:SER:H	2.23	0.42
2:G:2093:SER:OG	2:G:2095:GLN:OE1	2.38	0.42
2:G:3068:LEU:CG	2:G:3139:VAL:HG21	2.33	0.42
2:G:3219:TYR:HE1	2:G:3232:LEU:HD22	1.84	0.42
2:G:3417:ASP:OD1	2:G:3418:ASN:N	2.52	0.42
2:G:4205:TRP:CZ3	2:G:4989:MET:CE	3.03	0.42
2:B:227:MET:HE3	2:B:389:PHE:HD2	1.82	0.42
2:B:648:ILE:HD11	2:B:821:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:929:LEU:HD23	2:B:932:LEU:HD12	2.02	0.42
2:B:1277:TRP:HB3	2:B:1559:GLN:HB3	2.01	0.42
2:B:2277:ALA:HB1	2:B:2337:PHE:HD2	1.84	0.42
2:B:2694:GLU:HA	2:B:2697:ARG:HB3	2.00	0.42
2:B:3061:ALA:HA	2:B:3064:VAL:HG12	2.02	0.42
2:B:3409:TYR:O	2:B:3412:LEU:N	2.51	0.42
2:B:4001:MET:HE1	2:B:4061:PHE:HB2	2.02	0.42
2:B:4722:ARG:NE	2:B:4748:LEU:HD11	2.35	0.42
2:I:102:LEU:HA	2:I:162:LYS:HA	2.02	0.42
2:I:1105:ALA:HB2	2:I:1191:VAL:HG11	2.01	0.42
2:I:1277:TRP:HB3	2:I:1559:GLN:HB3	2.01	0.42
2:I:2490:MET:SD	2:I:2546:MET:SD	3.18	0.42
2:I:2547:ALA:O	2:I:2551:ASN:OD1	2.37	0.42
2:I:2762:THR:HB	2:I:2805:TYR:HE2	1.84	0.42
2:I:3290:GLU:HG3	2:I:3309:SER:N	2.35	0.42
2:I:4114:CYS:O	2:I:4131:ARG:NH2	2.52	0.42
2:I:4569:LEU:HD11	2:I:4649:LEU:HD23	2.01	0.42
2:A:121:LEU:HB2	2:A:134:ASP:O	2.20	0.42
2:A:613:ALA:HB2	2:A:1676:LEU:HB2	2.00	0.42
2:A:1561:VAL:HG12	2:A:1562:ILE:HG23	2.01	0.42
2:A:2332:LEU:HD23	2:A:2429:LEU:CA	2.50	0.42
2:A:2469:ILE:HG21	2:A:2502:MET:HE3	1.75	0.42
2:A:4154:VAL:HG12	2:A:4157:ASP:HB2	2.02	0.42
2:A:4205:TRP:CZ3	2:A:4989:MET:CE	3.03	0.42
2:A:4646:LEU:HD23	2:A:4646:LEU:HA	1.89	0.42
2:G:121:LEU:HD23	2:G:121:LEU:HA	1.88	0.42
2:G:245:VAL:HG23	2:G:376:ALA:HB3	2.02	0.42
2:G:475:GLN:CB	2:G:533:ASN:HD21	2.33	0.42
2:G:893:TYR:HB3	2:G:960:MET:HE2	2.01	0.42
2:G:1171:SER:OG	2:G:1172:ASP:N	2.53	0.42
2:G:2540:THR:OG1	2:G:2541:PHE:HD2	2.03	0.42
2:G:2694:GLU:HA	2:G:2697:ARG:HB3	2.00	0.42
2:G:2754:PHE:O	2:G:2806:ARG:NH2	2.53	0.42
2:G:3550:ARG:HD2	2:G:3597:GLN:OE1	2.20	0.42
2:G:4036:VAL:CB	2:G:5035:GLN:HG3	2.46	0.42
2:G:4114:CYS:O	2:G:4131:ARG:NH2	2.52	0.42
2:G:4572:ALA:O	2:G:4576:ILE:HG12	2.20	0.42
2:B:121:LEU:HB2	2:B:134:ASP:O	2.20	0.42
2:B:245:VAL:HG23	2:B:376:ALA:HB3	2.02	0.42
2:B:663:TYR:CE1	2:B:745:SER:HB3	2.55	0.42
2:B:861:ILE:CG2	2:B:933:LEU:HD12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:896:VAL:HG23	2:B:897:ARG:HG2	2.02	0.42
2:B:2500:ALA:CB	2:B:2553:TYR:CE1	3.03	0.42
2:B:3984:ARG:NH1	2:B:3987:ASP:OD2	2.28	0.42
2:I:2416:VAL:O	2:I:2417:HIS:HD2	2.03	0.42
2:I:3822:ASP:OD2	2:I:3823:LYS:NZ	2.40	0.42
2:I:3916:ILE:H	2:I:3916:ILE:HD12	1.85	0.42
2:I:4722:ARG:HE	2:I:4722:ARG:HB2	1.45	0.42
2:A:165:VAL:HG13	2:A:204:PRO:HD3	2.02	0.41
2:A:829:TYR:CE1	2:A:1608:MET:HG2	2.55	0.41
2:A:861:ILE:CG2	2:A:933:LEU:HD12	2.50	0.41
2:A:863:LEU:HA	2:A:864:PRO:HD3	1.91	0.41
2:A:1276:THR:O	2:A:1282:SER:OG	2.28	0.41
2:A:2244:ARG:HE	2:A:2244:ARG:HB3	1.74	0.41
2:A:2680:TRP:HH2	2:A:2959:PHE:HA	1.84	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH2	2.53	0.41
1:J:57:LYS:O	1:J:61:GLU:OE1	2.37	0.41
1:O:35:LYS:HE3	1:O:35:LYS:HB3	1.88	0.41
2:G:861:ILE:CG2	2:G:933:LEU:HD12	2.50	0.41
2:G:876:GLU:HG2	2:G:910:PHE:CE1	2.55	0.41
2:G:1082:THR:OG1	2:G:1187:GLY:HA3	2.20	0.41
2:G:2416:VAL:O	2:G:2417:HIS:HD2	2.03	0.41
2:G:2754:PHE:O	2:G:2806:ARG:NH1	2.53	0.41
2:G:3290:GLU:HG3	2:G:3309:SER:N	2.35	0.41
2:G:4722:ARG:NE	2:G:4748:LEU:HD11	2.35	0.41
2:B:2377:LEU:HB2	2:B:2465:ASP:HA	2.02	0.41
2:B:2696:TYR:CD2	2:B:3001:ILE:CG1	3.02	0.41
2:B:2994:GLU:O	2:B:2998:PHE:N	2.51	0.41
2:B:3634:ALA:O	2:B:3638:MET:HG2	2.19	0.41
2:B:4114:CYS:O	2:B:4131:ARG:NH2	2.52	0.41
2:B:4182:GLU:HG2	2:B:4192:ARG:HG2	2.02	0.41
2:B:4791:TYR:CD1	2:B:4818:MET:HE3	2.43	0.41
2:I:927:GLU:HA	2:I:930:LYS:HD3	2.02	0.41
2:I:946:ALA:HB2	2:I:1048:GLY:O	2.20	0.41
2:I:1996:ARG:HA	2:I:1996:ARG:HE	1.85	0.41
2:I:2093:SER:OG	2:I:2095:GLN:OE1	2.38	0.41
2:I:2499:LYS:HG2	2:I:2553:TYR:HH	1.77	0.41
2:I:2540:THR:OG1	2:I:2541:PHE:HD2	2.03	0.41
2:I:3570:ARG:HE	2:I:3570:ARG:HB3	1.74	0.41
2:I:4753:HIS:CG	2:I:4754:ASN:H	2.37	0.41
2:A:245:VAL:HG23	2:A:376:ALA:HB3	2.02	0.41
2:A:1082:THR:OG1	2:A:1187:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1087:ARG:NH2	2:A:1221:GLU:O	2.53	0.41
2:A:2416:VAL:O	2:A:2417:HIS:HD2	2.03	0.41
2:A:3126:GLY:O	2:A:3130:THR:HG23	2.21	0.41
2:A:3320:LEU:HD21	2:A:3361:THR:HG21	2.02	0.41
2:A:3550:ARG:HD2	2:A:3597:GLN:OE1	2.20	0.41
2:A:3673:MET:HE2	2:A:3725:TYR:HE1	1.83	0.41
2:A:4711:PHE:HB3	2:A:4712:PRO:HD3	2.02	0.41
1:J:7:ILE:HD11	1:J:73:LYS:HB2	2.01	0.41
2:G:374:LYS:HE2	2:G:374:LYS:HB2	1.83	0.41
2:G:663:TYR:CE1	2:G:745:SER:HB3	2.55	0.41
2:G:2290:LEU:HD11	2:G:2338:ALA:HB1	2.01	0.41
2:G:2346:VAL:O	2:G:2350:ALA:N	2.51	0.41
2:G:2377:LEU:HD12	2:G:2468:GLY:HA3	2.01	0.41
2:G:2423:MET:CE	2:G:2494:PHE:HD1	2.33	0.41
2:G:2465:ASP:OD1	2:G:2465:ASP:N	2.51	0.41
2:G:2500:ALA:CB	2:G:2553:TYR:CE1	3.03	0.41
2:G:2697:ARG:CA	2:G:2700:MET:HE2	2.48	0.41
2:G:2745:VAL:HG21	2:G:2818:ALA:HA	2.01	0.41
2:G:2871:LEU:HD23	2:G:2874:MET:SD	2.60	0.41
2:B:378:LEU:HD23	2:B:378:LEU:HA	1.89	0.41
2:B:900:ASN:HA	2:B:904:HIS:CE1	2.55	0.41
2:B:2490:MET:SD	2:B:2546:MET:SD	3.18	0.41
2:B:2696:TYR:O	2:B:2700:MET:HG3	2.19	0.41
2:B:3166:TYR:OH	2:B:3203:VAL:HG11	2.20	0.41
2:B:3400:VAL:HG22	2:B:3403:ARG:HH11	1.84	0.41
2:B:3916:ILE:H	2:B:3916:ILE:HD12	1.85	0.41
2:B:4563:ARG:HD2	2:B:4563:ARG:HA	1.84	0.41
2:I:1561:VAL:HG12	2:I:1562:ILE:HG23	2.01	0.41
2:I:2423:MET:CE	2:I:2494:PHE:HD1	2.33	0.41
2:I:2485:LEU:CD2	2:I:2541:PHE:CZ	3.03	0.41
2:I:3348:ARG:HA	2:I:3348:ARG:HD2	1.80	0.41
2:I:3695:PRO:HB3	2:I:3699:HIS:CD2	2.54	0.41
2:I:4001:MET:HE1	2:I:4061:PHE:HB2	2.01	0.41
2:I:4036:VAL:CB	2:I:5035:GLN:HG3	2.46	0.41
2:I:4572:ALA:O	2:I:4576:ILE:HG12	2.20	0.41
2:I:5009:TYR:CE2	2:I:5013:MET:CE	3.03	0.41
2:I:5035:GLN:HG2	2:I:5036:LEU:H	1.86	0.41
2:A:896:VAL:HG23	2:A:897:ARG:HG2	2.01	0.41
2:A:2555:CYS:HB3	2:A:2599:GLN:HG3	2.02	0.41
2:A:2692:ASP:HB3	2:A:2695:LEU:HB3	2.02	0.41
2:A:3850:GLN:HB2	2:A:3873:LYS:HZ1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:58:GLY:HA2	1:J:61:GLU:OE1	2.20	0.41
2:G:752:VAL:O	2:G:753:PRO:C	2.40	0.41
2:G:2471:SER:O	2:G:2471:SER:OG	2.34	0.41
2:G:2595:LEU:HD22	2:G:2599:GLN:NE2	2.27	0.41
2:G:2806:ARG:NH2	2:G:2809:ILE:HG22	2.34	0.41
2:G:3445:TRP:CH2	2:G:3452:LYS:CG	2.93	0.41
2:G:3514:LEU:HA	2:G:3514:LEU:HD12	1.82	0.41
2:G:4709:PRO:HD2	2:G:4772:ASP:OD1	2.20	0.41
2:G:4798:MET:HE2	2:G:4798:MET:HA	2.03	0.41
2:B:29:LEU:C	2:B:31:GLU:OE1	2.58	0.41
2:B:2809:ILE:HD13	2:B:2809:ILE:HA	1.95	0.41
2:B:3309:SER:HB2	2:B:3348:ARG:NE	2.36	0.41
2:B:3448:SER:O	2:B:3452:LYS:HE2	2.21	0.41
2:B:3633:VAL:HA	2:B:3636:PHE:CD1	2.55	0.41
2:B:4636:THR:CG2	2:B:4639:MET:HE3	2.49	0.41
2:I:129:ASP:N	2:I:129:ASP:OD1	2.53	0.41
2:I:245:VAL:HG23	2:I:376:ALA:HB3	2.02	0.41
2:I:648:ILE:HD11	2:I:821:LEU:HD13	2.02	0.41
2:I:900:ASN:HA	2:I:904:HIS:CE1	2.55	0.41
2:I:1171:SER:OG	2:I:1172:ASP:N	2.53	0.41
2:I:2003:GLN:O	2:I:2007:ASN:N	2.51	0.41
2:I:2283:ASN:ND2	2:I:2286:LEU:HD12	2.28	0.41
2:I:2291:GLN:O	2:I:2294:ASP:N	2.48	0.41
2:I:2332:LEU:HD23	2:I:2429:LEU:CA	2.50	0.41
2:I:2345:SER:HG	2:I:2508:ARG:HH22	1.68	0.41
2:I:2745:VAL:HG21	2:I:2818:ALA:HA	2.01	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH2	2.53	0.41
2:A:123:THR:OG1	2:A:124:SER:N	2.53	0.41
2:A:214:VAL:O	2:A:274:LEU:HD13	2.20	0.41
2:A:2490:MET:SD	2:A:2546:MET:SD	3.18	0.41
2:A:2540:THR:OG1	2:A:2541:PHE:HD2	2.03	0.41
2:A:4572:ALA:O	2:A:4576:ILE:HG12	2.20	0.41
2:A:4798:MET:HE2	2:A:4798:MET:HA	2.02	0.41
1:O:57:LYS:O	1:O:61:GLU:OE1	2.37	0.41
2:G:494:LEU:HA	2:G:494:LEU:HD23	1.79	0.41
2:G:721:LEU:HD23	2:G:721:LEU:HA	1.86	0.41
2:G:932:LEU:HD21	2:G:988:LEU:HD22	2.03	0.41
2:G:1734:TYR:HE2	2:G:2137:ALA:HB1	1.85	0.41
2:G:2345:SER:HG	2:G:2508:ARG:HH22	1.67	0.41
2:G:2485:LEU:CD2	2:G:2541:PHE:CZ	3.03	0.41
2:G:3611:HIS:ND1	2:G:3611:HIS:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3633:VAL:HA	2:G:3636:PHE:CD1	2.55	0.41
2:G:4118:ASP:OD1	2:G:4118:ASP:N	2.52	0.41
2:B:129:ASP:OD1	2:B:129:ASP:N	2.53	0.41
2:B:721:LEU:HD23	2:B:721:LEU:HA	1.86	0.41
2:B:2346:VAL:O	2:B:2350:ALA:N	2.51	0.41
2:B:3445:TRP:CH2	2:B:3452:LYS:CG	2.93	0.41
2:B:3771:HIS:HD2	2:B:3815:LYS:NZ	2.19	0.41
2:I:1100:MET:HA	2:I:1193:SER:O	2.21	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH1	2.53	0.41
2:I:2819:TRP:CZ2	2:I:2881:ASN:HB2	2.56	0.41
2:I:3448:SER:O	2:I:3452:LYS:HE2	2.21	0.41
2:A:932:LEU:HD21	2:A:988:LEU:HD22	2.03	0.41
2:A:946:ALA:HB2	2:A:1048:GLY:O	2.20	0.41
2:A:1000:ARG:HA	2:A:1000:ARG:HD3	1.79	0.41
2:A:2949:SER:O	2:A:2952:GLU:HG2	2.21	0.41
2:A:2950:SER:O	2:A:2953:LYS:HG2	2.20	0.41
2:A:3061:ALA:HA	2:A:3064:VAL:HG12	2.02	0.41
2:A:3771:HIS:HD2	2:A:3815:LYS:NZ	2.19	0.41
2:A:5009:TYR:CE2	2:A:5013:MET:CE	3.03	0.41
1:H:58:GLY:HA2	1:H:61:GLU:OE1	2.20	0.41
2:G:214:VAL:O	2:G:274:LEU:HD13	2.20	0.41
2:G:1087:ARG:NH2	2:G:1221:GLU:O	2.53	0.41
2:G:1996:ARG:HA	2:G:1996:ARG:HE	1.86	0.41
2:G:3197:LEU:HD23	2:G:3197:LEU:C	2.39	0.41
2:G:3395:ARG:NH1	2:G:3450:ASN:HB2	2.36	0.41
2:G:4720:VAL:O	2:G:4724:VAL:HG23	2.21	0.41
2:G:4747:SER:HA	2:G:4750:ILE:HB	2.01	0.41
2:B:475:GLN:HB2	2:B:533:ASN:HD21	1.83	0.41
2:B:494:LEU:HD23	2:B:494:LEU:HA	1.79	0.41
2:B:1925:GLY:H	2:B:1928:GLN:HB2	1.85	0.41
2:B:2098:VAL:CG2	2:B:2101:MET:HE1	2.40	0.41
2:B:3320:LEU:HD21	2:B:3361:THR:HG21	2.02	0.41
2:B:3550:ARG:HD2	2:B:3597:GLN:OE1	2.20	0.41
2:B:3570:ARG:NH1	2:I:1229:ASN:OD1	2.53	0.41
2:B:4154:VAL:HG12	2:B:4157:ASP:HB2	2.02	0.41
2:I:800:PHE:C	2:I:802:PHE:N	2.74	0.41
2:I:893:TYR:O	2:I:960:MET:HE1	2.20	0.41
2:I:2696:TYR:O	2:I:2700:MET:HE2	2.20	0.41
2:I:2700:MET:HB2	2:I:2700:MET:HE2	1.88	0.41
2:I:3320:LEU:HD21	2:I:3361:THR:HG21	2.02	0.41
2:I:3530:GLN:OE1	2:I:3534:MET:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3550:ARG:HD2	2:I:3597:GLN:OE1	2.20	0.41
1:F:7:ILE:HD11	1:F:73:LYS:HB2	2.01	0.41
2:A:2551:ASN:HB3	2:A:2599:GLN:NE2	2.26	0.41
2:A:4822:THR:HG21	2:B:4835:LYS:HE3	2.02	0.41
2:G:134:ASP:OD1	2:G:134:ASP:N	2.53	0.41
2:G:1186:ASP:N	2:G:1186:ASP:OD1	2.45	0.41
2:G:2595:LEU:HD23	2:G:2595:LEU:HA	1.87	0.41
2:G:2962:GLN:OE1	2:G:2966:TRP:HZ3	2.03	0.41
2:G:3126:GLY:O	2:G:3130:THR:HG23	2.21	0.41
2:G:3196:ARG:HA	2:G:3196:ARG:HD3	1.90	0.41
2:G:4791:TYR:CE1	2:G:4818:MET:HE1	2.34	0.41
2:B:800:PHE:C	2:B:802:PHE:N	2.74	0.41
2:B:800:PHE:C	2:B:802:PHE:H	2.24	0.41
2:B:1082:THR:OG1	2:B:1187:GLY:HA3	2.20	0.41
2:B:1105:ALA:HB2	2:B:1191:VAL:HG11	2.01	0.41
2:B:1171:SER:OG	2:B:1172:ASP:N	2.53	0.41
2:B:2651:CYS:O	2:B:2655:TYR:HD2	2.04	0.41
2:B:3278:CYS:CB	2:B:3345:ILE:HD11	2.51	0.41
2:B:3526:ALA:HB2	2:B:3576:TYR:CZ	2.56	0.41
2:B:3531:ASP:N	2:B:3531:ASP:OD1	2.53	0.41
2:B:4036:VAL:CB	2:B:5035:GLN:HG3	2.46	0.41
2:B:4243:PHE:O	2:B:4246:GLN:HG2	2.21	0.41
2:I:800:PHE:C	2:I:802:PHE:H	2.24	0.41
2:I:971:ASP:OD1	2:I:972:LEU:N	2.54	0.41
2:I:1000:ARG:HD3	2:I:1000:ARG:HA	1.79	0.41
2:I:2758:PHE:HA	2:I:2761:TYR:HB3	2.03	0.41
2:I:3312:LEU:HA	2:I:3312:LEU:HD23	1.89	0.41
2:I:3602:VAL:HG23	2:I:3603:LEU:HD22	2.03	0.41
2:I:4646:LEU:HD23	2:I:4646:LEU:HA	1.89	0.41
2:I:4798:MET:HA	2:I:4798:MET:HE2	2.03	0.41
2:A:650:VAL:HG21	2:A:662:TRP:CD1	2.56	0.41
2:A:800:PHE:C	2:A:802:PHE:N	2.74	0.41
2:A:971:ASP:OD1	2:A:972:LEU:N	2.54	0.41
2:A:1186:ASP:OD1	2:A:1186:ASP:N	2.45	0.41
2:A:2377:LEU:HB2	2:A:2465:ASP:HA	2.02	0.41
2:A:2994:GLU:O	2:A:2998:PHE:N	2.51	0.41
2:A:3166:TYR:OH	2:A:3203:VAL:HG11	2.20	0.41
2:A:4182:GLU:HG2	2:A:4192:ARG:HG2	2.02	0.41
2:A:4720:VAL:O	2:A:4724:VAL:HG23	2.21	0.41
2:G:227:MET:HE3	2:G:389:PHE:CD2	2.55	0.41
2:G:442:ILE:HD11	2:G:514:SER:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:800:PHE:C	2:G:802:PHE:H	2.24	0.41
2:G:910:PHE:HD2	2:G:918:ARG:HE	1.68	0.41
2:G:2297:LYS:HE3	2:G:2301:TYR:CE2	2.55	0.41
2:G:2651:CYS:O	2:G:2655:TYR:HD2	2.04	0.41
2:G:4963:ILE:HB	2:G:4968:PHE:CE2	2.55	0.41
2:B:165:VAL:HG13	2:B:204:PRO:HD3	2.02	0.41
2:B:650:VAL:HG21	2:B:662:TRP:CD1	2.56	0.41
2:B:910:PHE:HD2	2:B:918:ARG:HE	1.68	0.41
2:B:927:GLU:HA	2:B:930:LYS:HD3	2.02	0.41
2:B:2692:ASP:HB3	2:B:2695:LEU:HB3	2.02	0.41
2:B:3078:ARG:HG3	2:B:3155:ASP:OD2	2.20	0.41
2:B:4012:LEU:HD12	2:B:4012:LEU:HA	1.84	0.41
2:B:4071:ILE:O	2:B:4074:SER:OG	2.32	0.41
2:B:4634:GLU:HG3	2:B:4639:MET:CG	2.46	0.41
2:I:121:LEU:HB2	2:I:134:ASP:O	2.20	0.41
2:I:442:ILE:HD11	2:I:514:SER:HB3	2.03	0.41
2:I:929:LEU:HD23	2:I:932:LEU:HD12	2.02	0.41
2:I:932:LEU:HD21	2:I:988:LEU:HD22	2.03	0.41
2:I:2527:LEU:HA	2:I:2530:MET:HE2	2.00	0.41
2:I:2894:LEU:HG	2:I:2897:LYS:NZ	2.36	0.41
2:I:3526:ALA:HB2	2:I:3576:TYR:CZ	2.56	0.41
2:I:4709:PRO:HD2	2:I:4772:ASP:OD1	2.20	0.41
2:A:102:LEU:HA	2:A:162:LYS:HA	2.02	0.41
2:A:129:ASP:N	2:A:129:ASP:OD1	2.53	0.41
2:A:161:GLU:HA	2:G:3984:ARG:HH22	1.84	0.41
2:A:2345:SER:HG	2:A:2508:ARG:HH22	1.67	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH1	2.53	0.41
2:A:3301:PRO:HA	2:A:3302:PRO:HD3	1.95	0.41
2:A:3448:SER:O	2:A:3452:LYS:HE2	2.21	0.41
2:A:3602:VAL:HG23	2:A:3603:LEU:HD22	2.03	0.41
2:A:3802:ILE:HD11	2:A:3883:ASP:O	2.21	0.41
2:G:102:LEU:HA	2:G:162:LYS:HA	2.02	0.41
2:G:123:THR:OG1	2:G:124:SER:N	2.53	0.41
2:G:129:ASP:N	2:G:129:ASP:OD1	2.53	0.41
2:G:800:PHE:C	2:G:802:PHE:N	2.74	0.41
2:G:971:ASP:OD1	2:G:972:LEU:N	2.54	0.41
2:G:1105:ALA:HB2	2:G:1191:VAL:HG11	2.01	0.41
2:G:2490:MET:SD	2:G:2546:MET:SD	3.18	0.41
2:G:2758:PHE:HA	2:G:2761:TYR:HB3	2.03	0.41
2:G:3166:TYR:OH	2:G:3203:VAL:HG11	2.20	0.41
2:G:3376:GLU:CD	2:G:3450:ASN:HD21	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3924:LEU:O	2:G:3927:GLN:HG3	2.21	0.41
2:G:4711:PHE:HB3	2:G:4712:PRO:HD3	2.02	0.41
2:B:876:GLU:HG2	2:B:910:PHE:CE1	2.55	0.41
2:B:932:LEU:HD21	2:B:988:LEU:HD22	2.03	0.41
2:B:988:LEU:HG	2:B:1039:LEU:HD13	2.03	0.41
2:B:2675:THR:O	2:B:2678:LEU:HB3	2.21	0.41
2:B:2819:TRP:CZ2	2:B:2881:ASN:HB2	2.56	0.41
2:B:3007:ASN:HA	2:B:3070:ILE:HG21	2.03	0.41
2:B:3144:PHE:HA	2:B:3147:ILE:HG22	2.03	0.41
2:B:3376:GLU:CD	2:B:3450:ASN:HD21	2.24	0.41
2:I:896:VAL:HG23	2:I:897:ARG:HG2	2.01	0.41
2:I:1925:GLY:H	2:I:1928:GLN:HB2	1.85	0.41
2:I:2555:CYS:HB3	2:I:2599:GLN:HG3	2.02	0.41
2:I:2562:ILE:HG21	2:I:2582:MET:HE3	2.02	0.41
2:I:2871:LEU:HD23	2:I:2874:MET:SD	2.60	0.41
2:I:3531:ASP:OD1	2:I:3532:LEU:N	2.53	0.41
2:I:3633:VAL:HA	2:I:3636:PHE:CD1	2.55	0.41
2:A:664:PHE:CE1	2:A:746:CYS:HB2	2.56	0.41
2:A:876:GLU:HG2	2:A:910:PHE:CE1	2.55	0.41
2:A:988:LEU:HG	2:A:1039:LEU:HD13	2.03	0.41
2:A:1171:SER:OG	2:A:1172:ASP:N	2.53	0.41
2:A:1993:ARG:O	2:A:1996:ARG:HG2	2.21	0.41
2:A:2500:ALA:CB	2:A:2553:TYR:CE1	3.03	0.41
2:A:2595:LEU:HD22	2:A:2599:GLN:NE2	2.27	0.41
2:A:2651:CYS:HA	2:A:2661:TRP:HZ2	1.83	0.41
2:A:2651:CYS:O	2:A:2655:TYR:HD2	2.04	0.41
2:A:2745:VAL:HG21	2:A:2818:ALA:HA	2.01	0.41
2:A:2962:GLN:OE1	2:A:2966:TRP:HZ3	2.03	0.41
2:A:3007:ASN:HA	2:A:3070:ILE:HG21	2.03	0.41
2:A:3197:LEU:HD23	2:A:3197:LEU:C	2.39	0.41
2:A:3278:CYS:CB	2:A:3345:ILE:HD11	2.51	0.41
2:A:3290:GLU:HG3	2:A:3309:SER:N	2.35	0.41
2:A:3395:ARG:NH1	2:A:3450:ASN:HB2	2.36	0.41
2:A:3400:VAL:HG22	2:A:3403:ARG:HH11	1.84	0.41
2:A:3854:GLU:OE2	2:A:3946:GLN:OE1	2.39	0.41
2:A:3916:ILE:H	2:A:3916:ILE:HD12	1.85	0.41
2:A:3930:ILE:HG22	2:A:3995:VAL:HG11	2.03	0.41
2:A:4001:MET:HE1	2:A:4061:PHE:HB2	2.02	0.41
2:A:4673:ARG:HA	2:A:4676:GLU:HG2	2.03	0.41
1:O:58:GLY:HA2	1:O:61:GLU:OE1	2.20	0.41
2:G:664:PHE:CE1	2:G:746:CYS:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:887:ILE:CG2	2:G:958:THR:HA	2.51	0.41
2:G:1993:ARG:O	2:G:1996:ARG:HG2	2.21	0.41
2:G:2003:GLN:O	2:G:2007:ASN:N	2.51	0.41
2:G:2098:VAL:CB	2:G:2101:MET:HE2	2.51	0.41
2:G:2555:CYS:HB3	2:G:2599:GLN:HG3	2.02	0.41
2:G:2556:LEU:HD23	2:G:2556:LEU:HA	1.87	0.41
2:G:2692:ASP:HB3	2:G:2695:LEU:HB3	2.02	0.41
2:G:2819:TRP:CZ2	2:G:2881:ASN:HB2	2.56	0.41
2:G:2949:SER:O	2:G:2952:GLU:HG2	2.21	0.41
2:G:3144:PHE:HA	2:G:3147:ILE:HG22	2.03	0.41
2:G:3243:ILE:HA	2:G:3244:PRO:HD3	1.95	0.41
2:G:3448:SER:O	2:G:3452:LYS:HE2	2.21	0.41
2:G:3531:ASP:OD1	2:G:3531:ASP:N	2.53	0.41
2:G:3854:GLU:OE2	2:G:3946:GLN:OE1	2.39	0.41
2:G:3980:LEU:HD23	2:G:3980:LEU:HA	1.77	0.41
2:G:4007:SER:HB3	2:G:4116:GLU:CD	2.42	0.41
2:G:4243:PHE:O	2:G:4246:GLN:HG2	2.21	0.41
2:G:5009:TYR:CE2	2:G:5013:MET:CE	3.03	0.41
2:B:20:VAL:HG21	2:B:202:MET:HE2	2.01	0.41
2:B:102:LEU:HA	2:B:162:LYS:HA	2.02	0.41
2:B:468:LEU:O	2:B:472:ARG:HG2	2.21	0.41
2:B:486:LEU:HD12	2:B:486:LEU:HA	1.93	0.41
2:B:924:MET:CE	2:B:924:MET:CA	2.95	0.41
2:B:971:ASP:OD1	2:B:972:LEU:N	2.54	0.41
2:B:1927:LEU:HD23	2:B:1927:LEU:HA	1.87	0.41
2:B:2471:SER:O	2:B:2471:SER:OG	2.34	0.41
2:B:2555:CYS:HB3	2:B:2599:GLN:HG3	2.02	0.41
2:B:2638:LYS:HD2	2:B:2638:LYS:HA	1.96	0.41
2:B:2754:PHE:O	2:B:2806:ARG:NH1	2.53	0.41
2:B:2758:PHE:HA	2:B:2761:TYR:HB3	2.03	0.41
2:B:2816:MET:CE	2:B:2878:LEU:HD13	2.51	0.41
2:B:2949:SER:O	2:B:2952:GLU:HG2	2.21	0.41
2:B:2962:GLN:OE1	2:B:2966:TRP:HZ3	2.03	0.41
2:B:3602:VAL:HG23	2:B:3603:LEU:HD22	2.03	0.41
2:B:3611:HIS:ND1	2:B:3611:HIS:O	2.54	0.41
2:B:5035:GLN:HG2	2:B:5036:LEU:H	1.86	0.41
2:I:123:THR:OG1	2:I:124:SER:N	2.53	0.41
2:I:165:VAL:HG13	2:I:204:PRO:HD3	2.02	0.41
2:I:738:LEU:HD23	2:I:738:LEU:HA	1.83	0.41
2:I:928:THR:O	2:I:932:LEU:HG	2.21	0.41
2:I:1082:THR:OG1	2:I:1187:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1228:ILE:HD12	2:I:1228:ILE:HA	1.77	0.41
2:I:1985:THR:C	2:I:1987:SER:H	2.23	0.41
2:I:1993:ARG:O	2:I:1996:ARG:HG2	2.21	0.41
2:I:2551:ASN:HB3	2:I:2599:GLN:NE2	2.26	0.41
2:I:3078:ARG:HG3	2:I:3155:ASP:OD2	2.20	0.41
2:I:3126:GLY:O	2:I:3130:THR:HG23	2.21	0.41
2:I:3144:PHE:HA	2:I:3147:ILE:HG22	2.03	0.41
2:I:3611:HIS:O	2:I:3611:HIS:ND1	2.54	0.41
2:I:3802:ILE:HD11	2:I:3883:ASP:O	2.21	0.41
2:I:3924:LEU:O	2:I:3927:GLN:HG3	2.21	0.41
2:I:4673:ARG:HA	2:I:4676:GLU:HG2	2.03	0.41
2:I:4711:PHE:HB3	2:I:4712:PRO:HD3	2.02	0.41
2:I:4720:VAL:O	2:I:4724:VAL:HG23	2.21	0.41
2:A:595:ARG:NH1	2:A:631:LEU:O	2.54	0.41
2:A:3526:ALA:HB2	2:A:3576:TYR:CZ	2.56	0.41
2:A:3531:ASP:N	2:A:3531:ASP:OD1	2.53	0.41
2:A:3611:HIS:ND1	2:A:3611:HIS:O	2.54	0.41
2:A:3986:TRP:CZ3	2:A:4044:MET:HG2	2.56	0.41
2:A:4722:ARG:NE	2:A:4748:LEU:HD11	2.35	0.41
2:A:4951:LYS:HG3	2:A:4952:GLU:N	2.36	0.41
1:H:77:THR:OG1	1:H:78:PRO:HD2	2.21	0.41
2:G:121:LEU:HB2	2:G:134:ASP:O	2.20	0.41
2:G:451:TYR:O	2:G:474:ARG:NH1	2.50	0.41
2:G:988:LEU:HG	2:G:1039:LEU:HD13	2.03	0.41
2:G:2332:LEU:HD23	2:G:2429:LEU:CA	2.50	0.41
2:G:2369:ARG:HA	2:G:2369:ARG:HE	1.84	0.41
2:G:2894:LEU:HG	2:G:2897:LYS:NZ	2.36	0.41
2:G:3530:GLN:OE1	2:G:3534:MET:HE2	2.20	0.41
2:B:178:ARG:HD3	2:B:193:ALA:O	2.21	0.41
2:B:1734:TYR:HE2	2:B:2137:ALA:HB1	1.85	0.41
2:B:2312:MET:O	2:B:2316:LYS:HG2	2.21	0.41
2:B:2894:LEU:CG	2:B:2897:LYS:HZ1	2.34	0.41
2:B:3126:GLY:O	2:B:3130:THR:HG23	2.21	0.41
2:B:3147:ILE:HD11	2:B:3156:VAL:HB	2.03	0.41
2:B:3327:LEU:CG	2:B:3368:ARG:NH2	2.84	0.41
2:B:3442:PHE:HE1	2:B:3511:VAL:HG12	1.86	0.41
2:B:4798:MET:HE2	2:B:4798:MET:HA	2.02	0.41
2:B:4951:LYS:HG3	2:B:4952:GLU:N	2.36	0.41
2:I:49:LEU:HD23	2:I:49:LEU:HA	1.87	0.41
2:I:2377:LEU:HB2	2:I:2465:ASP:HA	2.02	0.41
2:I:2894:LEU:CB	2:I:2897:LYS:HZ1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3147:ILE:HD11	2:I:3156:VAL:HB	2.03	0.41
2:I:3278:CYS:CB	2:I:3345:ILE:HD11	2.51	0.41
2:I:3442:PHE:HE1	2:I:3511:VAL:HG12	1.86	0.41
2:I:4007:SER:HB3	2:I:4116:GLU:CD	2.42	0.41
2:I:4243:PHE:O	2:I:4246:GLN:HG2	2.21	0.41
2:A:648:ILE:HD11	2:A:821:LEU:HD13	2.02	0.40
2:A:2675:THR:O	2:A:2678:LEU:HB3	2.21	0.40
2:A:3312:LEU:CD1	2:A:3348:ARG:HG2	2.49	0.40
2:A:3442:PHE:HE1	2:A:3511:VAL:HG12	1.86	0.40
2:A:3633:VAL:HA	2:A:3636:PHE:CD1	2.55	0.40
2:A:4034:ASN:OD1	2:A:4038:GLY:HA3	2.21	0.40
2:A:4243:PHE:O	2:A:4246:GLN:HG2	2.21	0.40
2:G:896:VAL:HG23	2:G:897:ARG:HG2	2.02	0.40
2:G:1100:MET:HA	2:G:1193:SER:O	2.21	0.40
2:G:3061:ALA:HA	2:G:3064:VAL:HG12	2.02	0.40
2:G:3140:LEU:HA	2:G:3140:LEU:HD12	1.80	0.40
2:G:3278:CYS:CB	2:G:3345:ILE:HD11	2.51	0.40
2:G:3442:PHE:HE1	2:G:3511:VAL:HG12	1.86	0.40
2:G:3802:ILE:HD11	2:G:3883:ASP:O	2.21	0.40
2:G:4182:GLU:HG2	2:G:4192:ARG:HG2	2.02	0.40
2:G:4677:LEU:O	2:G:4677:LEU:CD1	2.69	0.40
2:B:1100:MET:HA	2:B:1193:SER:O	2.21	0.40
2:B:1996:ARG:HA	2:B:1996:ARG:HE	1.86	0.40
2:B:2527:LEU:HG	2:B:2530:MET:HE3	2.03	0.40
2:B:4036:VAL:CG1	2:B:5035:GLN:HG3	2.51	0.40
2:B:4176:PRO:O	2:B:4202:ARG:NE	2.54	0.40
2:I:152:PRO:HB3	2:I:157:ARG:HB2	2.03	0.40
2:I:652:ARG:NH2	2:I:750:LEU:O	2.52	0.40
2:I:887:ILE:CG2	2:I:958:THR:HA	2.51	0.40
2:I:1694:LEU:O	2:I:1698:LEU:HG	2.22	0.40
2:I:2962:GLN:OE1	2:I:2966:TRP:HZ3	2.03	0.40
2:I:3327:LEU:CG	2:I:3368:ARG:NH2	2.84	0.40
2:I:4154:VAL:HG12	2:I:4157:ASP:HB2	2.02	0.40
2:I:4963:ILE:HB	2:I:4968:PHE:CE2	2.55	0.40
2:I:5013:MET:HE1	2:I:5021:PHE:HB3	1.99	0.40
1:F:2:VAL:HG12	1:F:61:GLU:CG	2.52	0.40
1:F:53:GLN:OE1	1:F:53:GLN:N	2.55	0.40
1:F:77:THR:OG1	1:F:78:PRO:HD2	2.21	0.40
2:A:928:THR:O	2:A:932:LEU:HG	2.21	0.40
2:A:2499:LYS:HG2	2:A:2553:TYR:HH	1.76	0.40
2:A:3270:ILE:HA	2:A:3274:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3327:LEU:CG	2:A:3368:ARG:NH2	2.84	0.40
2:A:3537:LYS:HZ1	2:A:3603:LEU:HB2	1.86	0.40
2:A:3544:ASP:OD2	2:A:3549:VAL:HG22	2.21	0.40
2:A:4036:VAL:CB	2:A:5035:GLN:HG3	2.46	0.40
1:J:53:GLN:OE1	1:J:53:GLN:N	2.55	0.40
2:G:69:LEU:HD21	2:G:202:MET:HE2	1.99	0.40
2:G:2345:SER:OG	2:G:2508:ARG:NH2	2.51	0.40
2:G:2820:GLU:HB3	2:G:2937:VAL:HG21	2.04	0.40
2:G:3320:LEU:HD21	2:G:3361:THR:HG21	2.02	0.40
2:G:3673:MET:HE2	2:G:3725:TYR:HE1	1.85	0.40
2:G:3858:MET:HE3	2:G:3865:VAL:HB	2.03	0.40
2:G:3986:TRP:CZ3	2:G:4044:MET:HG2	2.56	0.40
2:G:4154:VAL:HG12	2:G:4157:ASP:HB2	2.02	0.40
2:G:4683:PHE:HE2	2:G:5017:ARG:HG3	1.87	0.40
2:G:4791:TYR:HE1	2:G:4818:MET:HE1	1.77	0.40
2:B:59:PRO:HD3	2:B:307:ALA:HB3	2.04	0.40
2:B:928:THR:O	2:B:932:LEU:HG	2.21	0.40
2:B:2575:ARG:NH1	2:B:2578:MET:SD	2.76	0.40
2:B:2754:PHE:O	2:B:2806:ARG:NH2	2.53	0.40
2:B:4673:ARG:HA	2:B:4676:GLU:HG2	2.03	0.40
2:I:33:LEU:HD23	2:I:33:LEU:H	1.87	0.40
2:I:595:ARG:NH1	2:I:631:LEU:O	2.54	0.40
2:I:664:PHE:CE1	2:I:746:CYS:HB2	2.56	0.40
2:I:863:LEU:HA	2:I:864:PRO:HD3	1.91	0.40
2:I:2651:CYS:O	2:I:2655:TYR:HD2	2.04	0.40
2:I:2820:GLU:HB3	2:I:2937:VAL:HG21	2.03	0.40
2:I:3567:PRO:O	2:I:3570:ARG:HB3	2.22	0.40
2:I:3634:ALA:HA	2:I:3637:ARG:CD	2.52	0.40
2:A:800:PHE:C	2:A:802:PHE:H	2.24	0.40
2:A:887:ILE:CG2	2:A:958:THR:HA	2.51	0.40
2:A:943:ASP:OD2	2:A:944:GLU:N	2.39	0.40
2:A:1927:LEU:HD23	2:A:1927:LEU:HA	1.87	0.40
2:A:2676:ARG:HE	2:A:2676:ARG:HB2	1.56	0.40
2:A:3144:PHE:HA	2:A:3147:ILE:HG22	2.03	0.40
2:A:3825:GLU:OE1	2:A:3825:GLU:N	2.41	0.40
1:H:53:GLN:OE1	1:H:53:GLN:N	2.55	0.40
2:G:33:LEU:H	2:G:33:LEU:HD23	1.87	0.40
2:G:1115:LEU:HD21	2:G:1191:VAL:HG22	2.03	0.40
2:G:2312:MET:O	2:G:2316:LYS:HG2	2.21	0.40
2:G:3147:ILE:HD11	2:G:3156:VAL:HB	2.03	0.40
2:G:3327:LEU:CG	2:G:3368:ARG:NH2	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4563:ARG:HD2	2:G:4563:ARG:HA	1.84	0.40
2:B:33:LEU:H	2:B:33:LEU:HD23	1.87	0.40
2:B:123:THR:OG1	2:B:124:SER:N	2.53	0.40
2:B:2416:VAL:O	2:B:2417:HIS:HD2	2.03	0.40
2:B:2623:LEU:O	2:B:2624:ARG:C	2.60	0.40
2:B:3544:ASP:OD2	2:B:3549:VAL:HG22	2.21	0.40
2:I:650:VAL:HG21	2:I:662:TRP:CD1	2.56	0.40
2:I:1734:TYR:HE2	2:I:2137:ALA:HB1	1.85	0.40
2:I:2212:VAL:HG13	2:I:2256:TYR:OH	2.21	0.40
2:I:2312:MET:O	2:I:2316:LYS:HG2	2.21	0.40
2:I:2675:THR:O	2:I:2678:LEU:HB3	2.21	0.40
2:I:3544:ASP:OD2	2:I:3549:VAL:HG22	2.21	0.40
2:I:3984:ARG:HE	2:I:3984:ARG:HB2	1.52	0.40
2:I:4791:TYR:CE1	2:I:4818:MET:HE2	1.95	0.40
2:A:59:PRO:HD3	2:A:307:ALA:HB3	2.04	0.40
2:A:378:LEU:HA	2:A:378:LEU:HD23	1.89	0.40
2:A:442:ILE:HD11	2:A:514:SER:HB3	2.03	0.40
2:A:1566:LEU:O	2:A:1589:PRO:HB3	2.22	0.40
2:A:1842:LEU:HD23	2:A:1842:LEU:HA	1.93	0.40
2:A:3147:ILE:HD11	2:A:3156:VAL:HB	2.03	0.40
2:A:3783:ILE:HG13	2:A:3797:THR:HG21	2.03	0.40
2:A:4036:VAL:CG1	2:A:5035:GLN:HG3	2.51	0.40
1:O:53:GLN:N	1:O:53:GLN:OE1	2.55	0.40
2:G:178:ARG:HD3	2:G:193:ALA:O	2.21	0.40
2:G:648:ILE:HD11	2:G:821:LEU:HD13	2.02	0.40
2:G:1566:LEU:O	2:G:1589:PRO:HB3	2.22	0.40
2:G:1568:LYS:HB2	2:G:1572:ILE:O	2.22	0.40
2:G:1694:LEU:O	2:G:1698:LEU:HG	2.22	0.40
2:G:2651:CYS:HA	2:G:2661:TRP:HZ2	1.83	0.40
2:G:2675:THR:O	2:G:2678:LEU:HB3	2.21	0.40
2:G:3106:MET:HE3	2:G:3182:TYR:HE2	1.86	0.40
2:G:3312:LEU:CD1	2:G:3348:ARG:HG2	2.49	0.40
2:G:3526:ALA:HB2	2:G:3576:TYR:CZ	2.56	0.40
2:G:3771:HIS:HD2	2:G:3815:LYS:NZ	2.18	0.40
2:G:4036:VAL:CG1	2:G:5035:GLN:HG3	2.51	0.40
2:G:4673:ARG:HA	2:G:4676:GLU:HG2	2.03	0.40
2:G:4744:ASP:OD1	2:G:4745:LEU:N	2.55	0.40
2:G:4835:LYS:HE3	2:I:4822:THR:HG21	2.02	0.40
2:B:442:ILE:HD11	2:B:514:SER:HB3	2.03	0.40
2:B:2383:ALA:HA	2:B:2386:ILE:HG22	2.04	0.40
2:B:3802:ILE:HD11	2:B:3883:ASP:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3924:LEU:O	2:B:3927:GLN:HG3	2.21	0.40
2:B:3927:GLN:HG2	2:B:3988:ALA:HA	2.04	0.40
2:B:4034:ASN:OD1	2:B:4038:GLY:HA3	2.21	0.40
2:B:4744:ASP:OD1	2:B:4745:LEU:N	2.55	0.40
2:I:214:VAL:O	2:I:274:LEU:HD13	2.20	0.40
2:I:876:GLU:HG2	2:I:910:PHE:CE1	2.55	0.40
2:I:988:LEU:HG	2:I:1039:LEU:HD13	2.03	0.40
2:I:3313:ASN:OD1	2:I:3350:ARG:N	2.37	0.40
2:I:3927:GLN:HG2	2:I:3988:ALA:HA	2.04	0.40
2:I:4034:ASN:OD1	2:I:4038:GLY:HA3	2.21	0.40
2:I:4036:VAL:CG1	2:I:5035:GLN:HG3	2.51	0.40
2:I:4744:ASP:OD1	2:I:4745:LEU:N	2.55	0.40
2:A:50:GLU:HA	2:A:51:PRO:HD3	1.90	0.40
2:A:509:GLU:O	2:A:513:GLU:HG2	2.22	0.40
2:A:870:ILE:HD12	2:A:870:ILE:HA	1.88	0.40
2:A:1110:ARG:HB2	2:A:1113:VAL:HG22	2.04	0.40
2:A:2258:LEU:HD23	2:A:2258:LEU:HA	1.82	0.40
2:A:2819:TRP:CZ2	2:A:2881:ASN:HB2	2.56	0.40
2:A:3183:VAL:O	2:A:3187:ARG:HG2	2.22	0.40
2:A:3327:LEU:HB2	2:A:3368:ARG:NH2	2.37	0.40
2:A:3924:LEU:O	2:A:3927:GLN:HG3	2.21	0.40
2:A:3927:GLN:HG2	2:A:3988:ALA:HA	2.04	0.40
2:G:127:MET:HG2	2:G:128:THR:N	2.37	0.40
2:G:152:PRO:HB3	2:G:157:ARG:HB2	2.04	0.40
2:G:468:LEU:O	2:G:472:ARG:HG2	2.21	0.40
2:G:595:ARG:NH1	2:G:631:LEU:O	2.54	0.40
2:G:650:VAL:HG21	2:G:662:TRP:CD1	2.56	0.40
2:G:893:TYR:HB3	2:G:960:MET:HE1	2.03	0.40
2:G:1942:LEU:HD23	2:G:1942:LEU:HA	1.92	0.40
2:G:2383:ALA:HA	2:G:2386:ILE:HG22	2.04	0.40
2:G:3567:PRO:O	2:G:3570:ARG:HB3	2.22	0.40
2:G:4951:LYS:HG3	2:G:4952:GLU:N	2.36	0.40
2:B:509:GLU:O	2:B:513:GLU:HG2	2.22	0.40
2:B:1110:ARG:HB2	2:B:1113:VAL:HG22	2.04	0.40
2:B:1251:GLU:OE1	2:B:1251:GLU:N	2.53	0.40
2:B:3567:PRO:O	2:B:3570:ARG:HB3	2.22	0.40
2:B:4705:VAL:HG23	2:B:4775:TYR:HD1	1.87	0.40
2:B:4720:VAL:O	2:B:4724:VAL:HG23	2.21	0.40
2:I:861:ILE:CG2	2:I:933:LEU:HD12	2.50	0.40
2:I:1480:GLN:N	2:I:1480:GLN:CD	2.75	0.40
2:I:2656:CYS:SG	2:I:2657:LEU:HG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2949:SER:O	2:I:2952:GLU:HG2	2.21	0.40
2:I:3007:ASN:HA	2:I:3070:ILE:HG21	2.03	0.40
2:I:3771:HIS:HD2	2:I:3815:LYS:NZ	2.19	0.40
2:I:3783:ILE:HG13	2:I:3797:THR:HG21	2.03	0.40
2:I:4563:ARG:HD2	2:I:4563:ARG:HA	1.84	0.40
2:I:4976:GLU:OE1	2:I:4976:GLU:N	2.45	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	F	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	H	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	J	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	O	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
2	A	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
2	B	4260/5037 (85%)	4078 (96%)	180 (4%)	2 (0%)	100	100
2	G	4260/5037 (85%)	4080 (96%)	178 (4%)	2 (0%)	100	100
2	I	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
All	All	17460/20580 (85%)	16720 (96%)	732 (4%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	801	LYS
2	G	801	LYS
2	B	801	LYS
2	I	801	LYS

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Mol	Chain	Res	Type
2	A	3267	PRO
2	G	3267	PRO
2	B	3267	PRO
2	I	3267	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	F	88/89 (99%)	78 (89%)	10 (11%)	4	17
1	H	88/89 (99%)	78 (89%)	10 (11%)	4	17
1	J	88/89 (99%)	78 (89%)	10 (11%)	4	17
1	O	88/89 (99%)	78 (89%)	10 (11%)	4	17
2	A	3738/4276 (87%)	3713 (99%)	25 (1%)	81	89
2	B	3738/4276 (87%)	3713 (99%)	25 (1%)	81	89
2	G	3738/4276 (87%)	3713 (99%)	25 (1%)	81	89
2	I	3738/4276 (87%)	3713 (99%)	25 (1%)	81	89
All	All	15304/17460 (88%)	15164 (99%)	140 (1%)	74	87

All (140) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	18	LYS
1	F	23	VAL
1	F	24	VAL
1	F	25	HIS
1	F	38	SER
1	F	39	SER
1	F	43	ASN
1	F	44	LYS
1	F	105	ASN
1	F	107	GLU
2	A	751	SER

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Mol	Chain	Res	Type
2	A	754	SER
2	A	830	ARG
2	A	838	HIS
2	A	1128	ARG
2	A	1203	ASN
2	A	1646	ARG
2	A	1982	ARG
2	A	2939	ARG
2	A	3051	ARG
2	A	3637	ARG
2	A	3715	LYS
2	A	3892	CYS
2	A	3893	GLU
2	A	4025	VAL
2	A	4031	LEU
2	A	4233	LEU
2	A	4237	PHE
2	A	4239	GLU
2	A	4672	LYS
2	A	4680	LYS
2	A	4713	SER
2	A	4716	TRP
2	A	4717	ASP
2	A	5016	GLU
1	H	18	LYS
1	H	23	VAL
1	H	24	VAL
1	H	25	HIS
1	H	38	SER
1	H	39	SER
1	H	43	ASN
1	H	44	LYS
1	H	105	ASN
1	H	107	GLU
1	J	18	LYS
1	J	23	VAL
1	J	24	VAL
1	J	25	HIS
1	J	38	SER
1	J	39	SER
1	J	43	ASN
1	J	44	LYS

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Mol	Chain	Res	Type
1	J	105	ASN
1	J	107	GLU
1	O	18	LYS
1	O	23	VAL
1	O	24	VAL
1	O	25	HIS
1	O	38	SER
1	O	39	SER
1	O	43	ASN
1	O	44	LYS
1	O	105	ASN
1	O	107	GLU
2	G	751	SER
2	G	754	SER
2	G	830	ARG
2	G	838	HIS
2	G	1128	ARG
2	G	1203	ASN
2	G	1646	ARG
2	G	1982	ARG
2	G	2939	ARG
2	G	3051	ARG
2	G	3637	ARG
2	G	3715	LYS
2	G	3892	CYS
2	G	3893	GLU
2	G	4025	VAL
2	G	4031	LEU
2	G	4233	LEU
2	G	4237	PHE
2	G	4239	GLU
2	G	4672	LYS
2	G	4680	LYS
2	G	4713	SER
2	G	4716	TRP
2	G	4717	ASP
2	G	5016	GLU
2	B	751	SER
2	B	754	SER
2	B	830	ARG
2	B	838	HIS
2	B	1128	ARG

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Mol	Chain	Res	Type
2	B	1203	ASN
2	B	1646	ARG
2	B	1982	ARG
2	B	2939	ARG
2	B	3051	ARG
2	B	3637	ARG
2	B	3715	LYS
2	B	3892	CYS
2	B	3893	GLU
2	B	4025	VAL
2	B	4031	LEU
2	B	4233	LEU
2	B	4237	PHE
2	B	4239	GLU
2	B	4672	LYS
2	B	4680	LYS
2	B	4713	SER
2	B	4716	TRP
2	B	4717	ASP
2	B	5016	GLU
2	I	751	SER
2	I	754	SER
2	I	830	ARG
2	I	838	HIS
2	I	1128	ARG
2	I	1203	ASN
2	I	1646	ARG
2	I	1982	ARG
2	I	2939	ARG
2	I	3051	ARG
2	I	3637	ARG
2	I	3715	LYS
2	I	3892	CYS
2	I	3893	GLU
2	I	4025	VAL
2	I	4031	LEU
2	I	4233	LEU
2	I	4237	PHE
2	I	4239	GLU
2	I	4672	LYS
2	I	4680	LYS
2	I	4713	SER

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Mol	Chain	Res	Type
2	I	4716	TRP
2	I	4717	ASP
2	I	5016	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	31	GLN
2	A	479	GLN
2	A	533	ASN
2	A	705	ASN
2	A	877	ASN
2	A	2127	GLN
2	A	2283	ASN
2	A	2444	GLN
2	A	2599	GLN
2	A	2788	HIS
2	A	2881	ASN
2	A	3052	HIS
2	A	3771	HIS
2	A	3946	GLN
2	A	4078	GLN
2	A	4650	HIS
2	A	4978	HIS
1	H	31	GLN
1	J	31	GLN
1	O	31	GLN
2	G	479	GLN
2	G	533	ASN
2	G	705	ASN
2	G	877	ASN
2	G	2127	GLN
2	G	2283	ASN
2	G	2444	GLN
2	G	2599	GLN
2	G	2788	HIS
2	G	2881	ASN
2	G	2931	GLN
2	G	3052	HIS
2	G	3771	HIS
2	G	3946	GLN
2	G	4078	GLN

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Mol	Chain	Res	Type
2	G	4650	HIS
2	G	4978	HIS
2	B	479	GLN
2	B	533	ASN
2	B	705	ASN
2	B	877	ASN
2	B	1203	ASN
2	B	2127	GLN
2	B	2444	GLN
2	B	2599	GLN
2	B	2788	HIS
2	B	2881	ASN
2	B	3052	HIS
2	B	3771	HIS
2	B	3946	GLN
2	B	4078	GLN
2	B	4650	HIS
2	B	4978	HIS
2	I	479	GLN
2	I	533	ASN
2	I	705	ASN
2	I	877	ASN
2	I	2127	GLN
2	I	2283	ASN
2	I	2324	ASN
2	I	2444	GLN
2	I	2599	GLN
2	I	2788	HIS
2	I	2881	ASN
2	I	2931	GLN
2	I	3052	HIS
2	I	3771	HIS
2	I	3946	GLN
2	I	4078	GLN
2	I	4650	HIS
2	I	4978	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 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
3	ATP	I	5301	-	28,33,33	0.84	0	34,52,52	1.25	4 (11%)
6	CFF	I	5304	-	8,15,15	2.10	2 (25%)	8,23,23	1.20	1 (12%)
6	CFF	G	5304	-	8,15,15	2.11	2 (25%)	8,23,23	1.20	1 (12%)
6	CFF	B	5304	-	8,15,15	2.11	2 (25%)	8,23,23	1.21	1 (12%)
3	ATP	A	5301	-	28,33,33	0.84	0	34,52,52	1.25	4 (11%)
3	ATP	G	5301	-	28,33,33	0.84	0	34,52,52	1.25	4 (11%)
3	ATP	B	5301	-	28,33,33	0.84	0	34,52,52	1.25	4 (11%)
6	CFF	A	5304	-	8,15,15	2.11	2 (25%)	8,23,23	1.20	1 (12%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ATP	I	5301	-	-	2/18/38/38	0/3/3/3
6	CFF	I	5304	-	-	-	0/2/2/2
6	CFF	G	5304	-	-	-	0/2/2/2
6	CFF	B	5304	-	-	-	0/2/2/2
3	ATP	A	5301	-	-	2/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ATP	G	5301	-	-	2/18/38/38	0/3/3/3
3	ATP	B	5301	-	-	2/18/38/38	0/3/3/3
6	CFE	A	5304	-	-	-	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5304	CFE	C5-C6	4.19	1.48	1.41
6	A	5304	CFE	C5-C6	4.19	1.48	1.41
6	B	5304	CFE	C5-C6	4.19	1.48	1.41
6	I	5304	CFE	C5-C6	4.14	1.48	1.41
6	A	5304	CFE	C5-C4	3.74	1.45	1.39
6	G	5304	CFE	C5-C4	3.74	1.45	1.39
6	B	5304	CFE	C5-C4	3.74	1.45	1.39
6	I	5304	CFE	C5-C4	3.74	1.45	1.39

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	5301	ATP	N3-C2-N1	-3.74	123.59	128.67
3	B	5301	ATP	N3-C2-N1	-3.74	123.59	128.67
3	A	5301	ATP	N3-C2-N1	-3.74	123.59	128.67
3	I	5301	ATP	N3-C2-N1	-3.72	123.63	128.67
3	B	5301	ATP	C4-C5-N7	-2.35	106.85	109.34
3	A	5301	ATP	C4-C5-N7	-2.35	106.85	109.34
3	I	5301	ATP	C4-C5-N7	-2.33	106.88	109.34
3	G	5301	ATP	C4-C5-N7	-2.32	106.88	109.34
6	G	5304	CFE	C5-C6-N1	-2.29	115.87	118.20
6	A	5304	CFE	C5-C6-N1	-2.23	115.94	118.20
6	B	5304	CFE	C5-C6-N1	-2.23	115.94	118.20
6	I	5304	CFE	C5-C6-N1	-2.18	115.98	118.20
3	I	5301	ATP	O4'-C1'-N9	2.14	111.58	108.75
3	G	5301	ATP	O4'-C1'-N9	2.13	111.58	108.75
3	A	5301	ATP	O4'-C1'-N9	2.12	111.55	108.75
3	B	5301	ATP	O4'-C1'-N9	2.11	111.54	108.75
3	B	5301	ATP	C4'-O4'-C1'	-2.06	108.04	109.92
3	A	5301	ATP	C4'-O4'-C1'	-2.05	108.05	109.92
3	I	5301	ATP	C4'-O4'-C1'	-2.03	108.06	109.92
3	G	5301	ATP	C4'-O4'-C1'	-2.01	108.08	109.92

There are no chirality outliers.

All (8) torsion outliers are listed below:

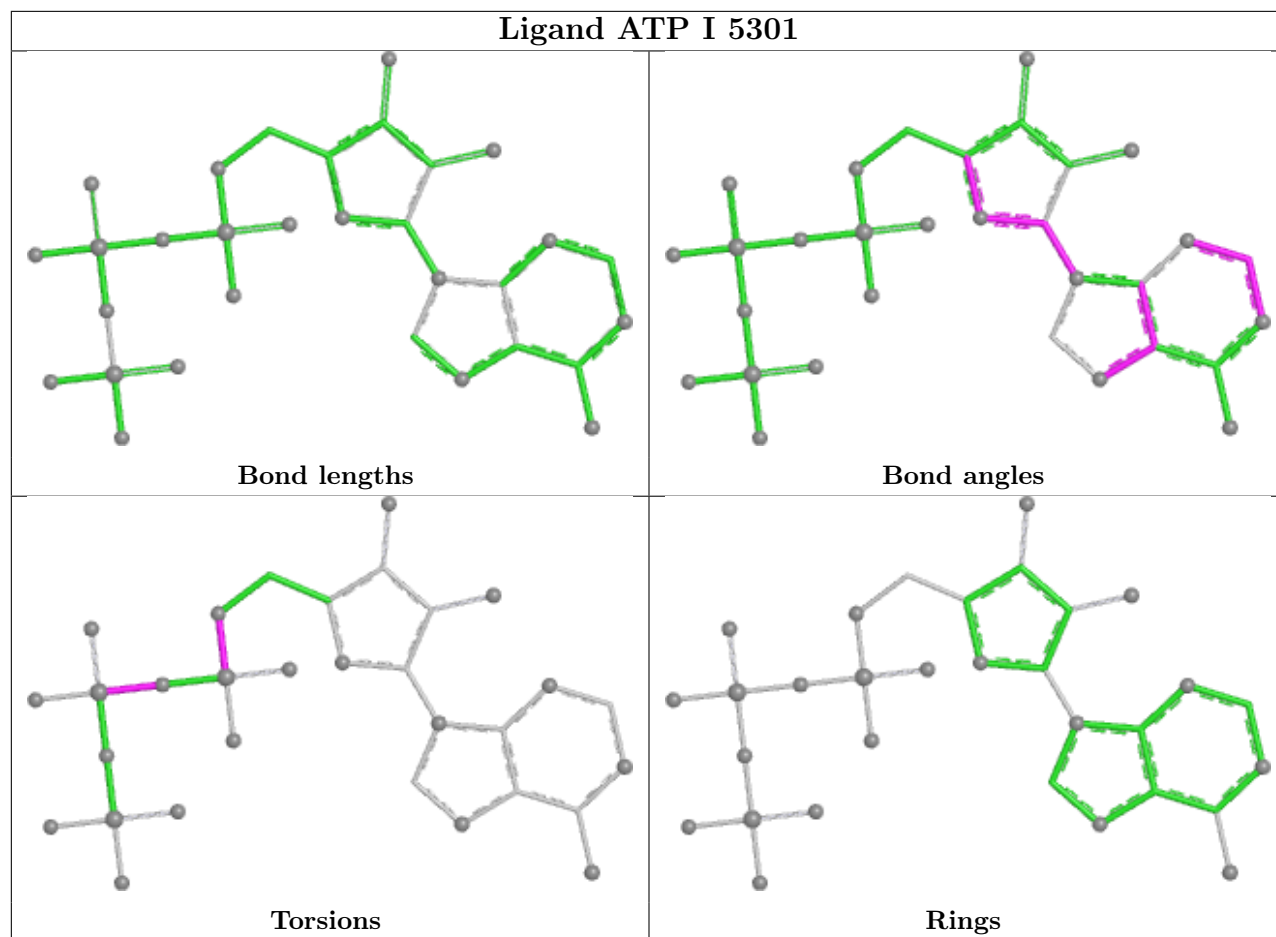
Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O3A
3	G	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	I	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	PA-O3A-PB-O1B
3	G	5301	ATP	PA-O3A-PB-O1B
3	B	5301	ATP	PA-O3A-PB-O1B
3	I	5301	ATP	PA-O3A-PB-O1B

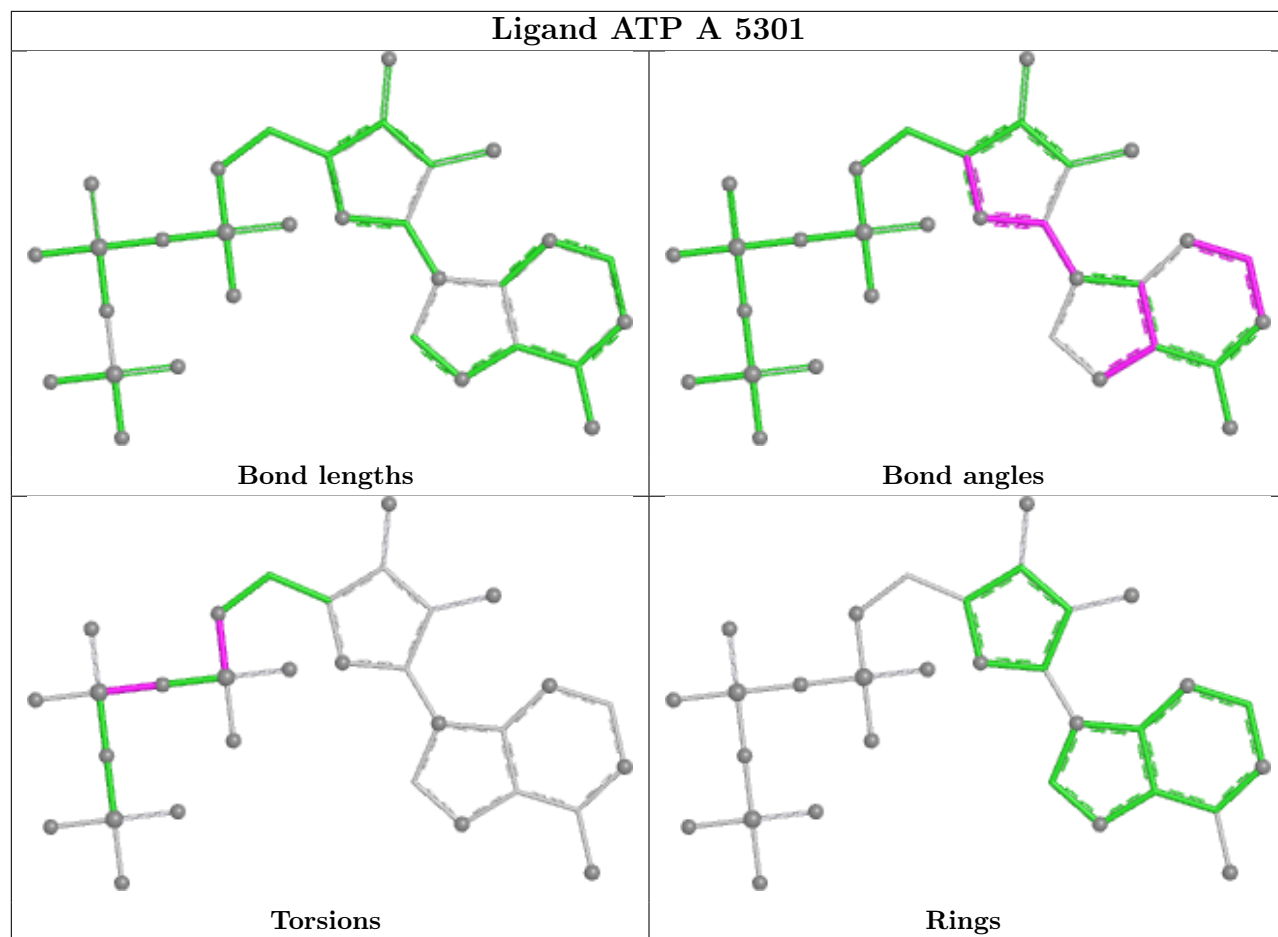
There are no ring outliers.

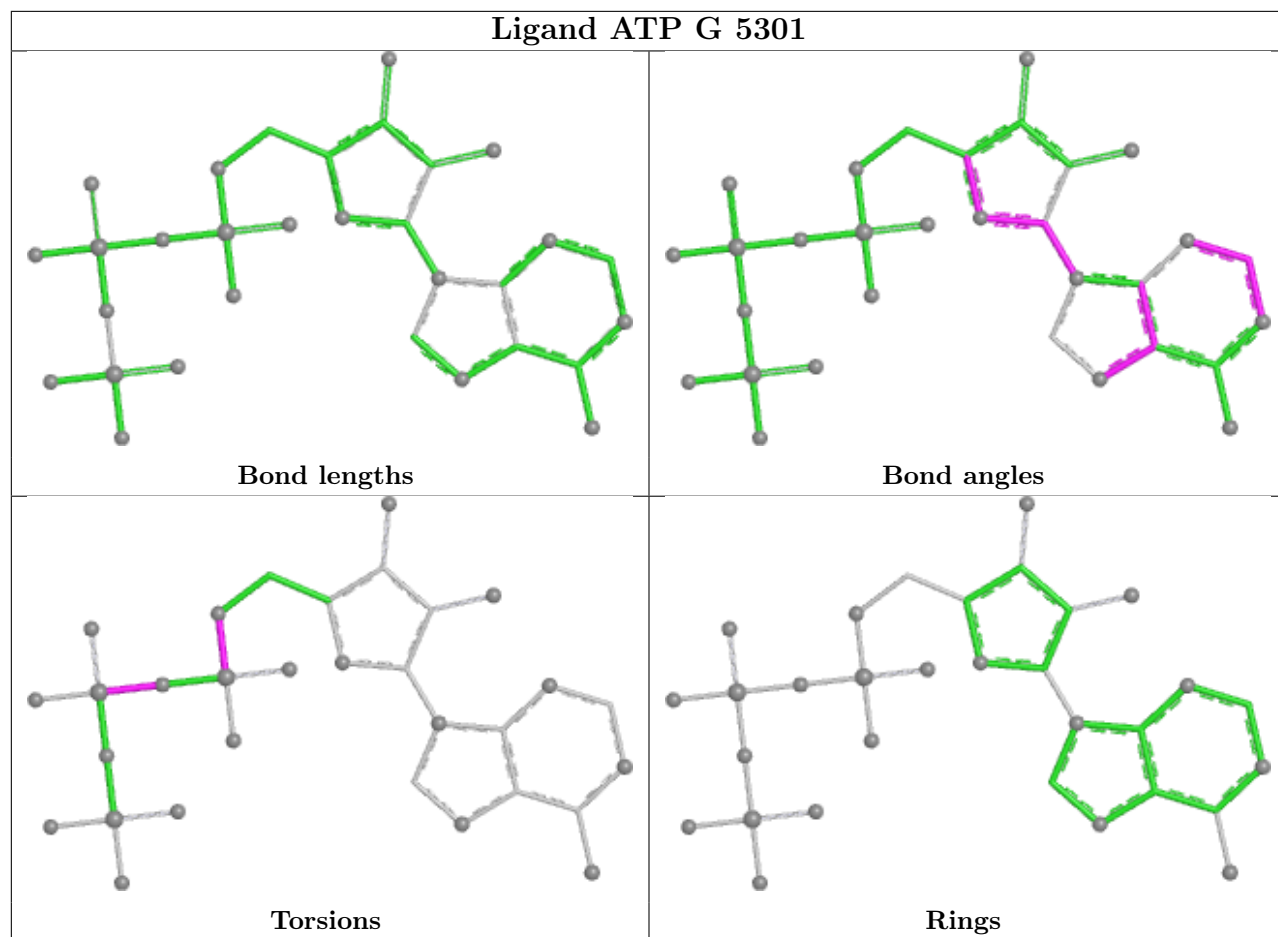
8 monomers are involved in 12 short contacts:

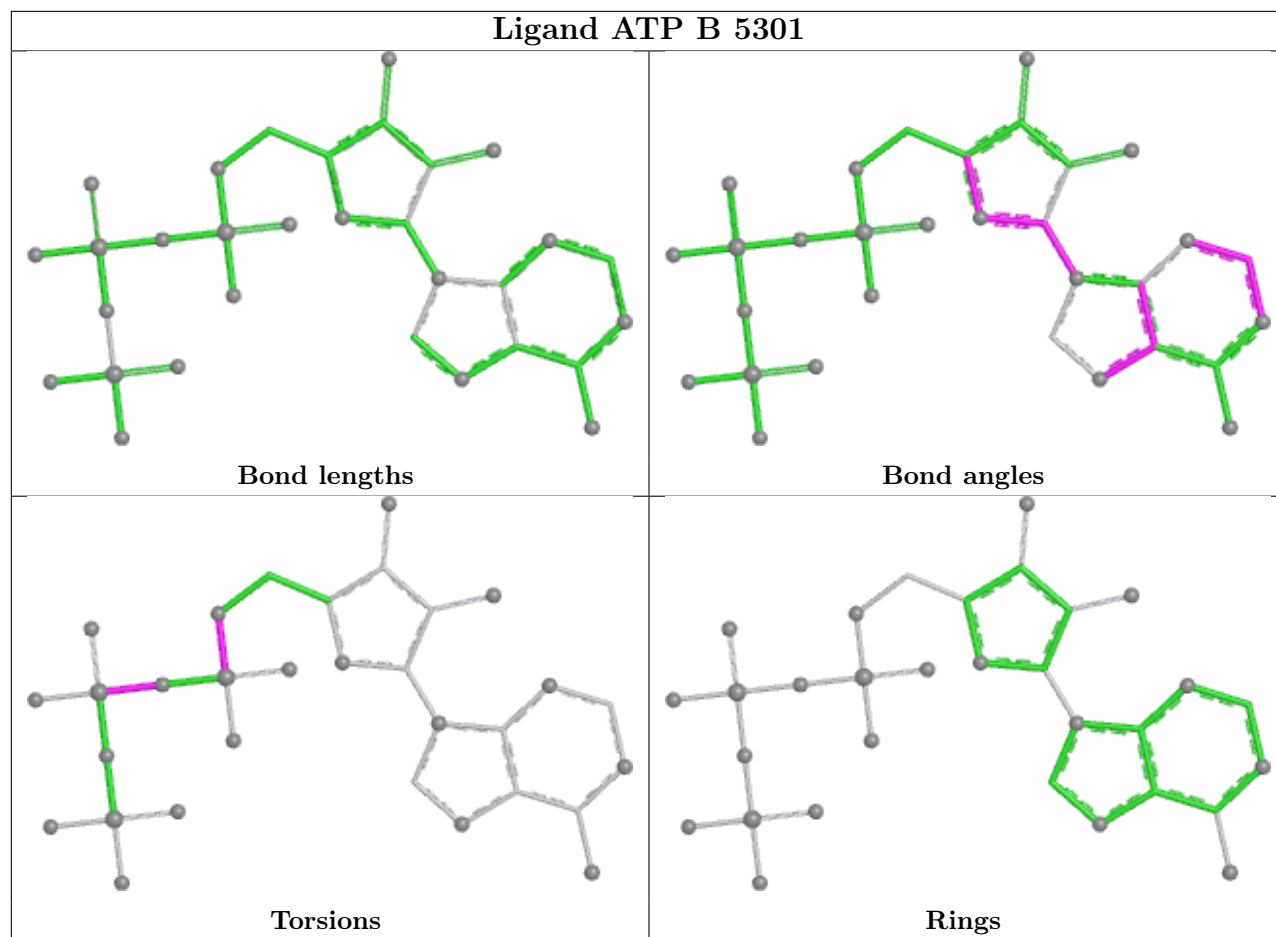
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	I	5301	ATP	2	0
6	I	5304	CFE	1	0
6	G	5304	CFE	1	0
6	B	5304	CFE	1	0
3	A	5301	ATP	2	0
3	G	5301	ATP	2	0
3	B	5301	ATP	2	0
6	A	5304	CFE	1	0

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









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

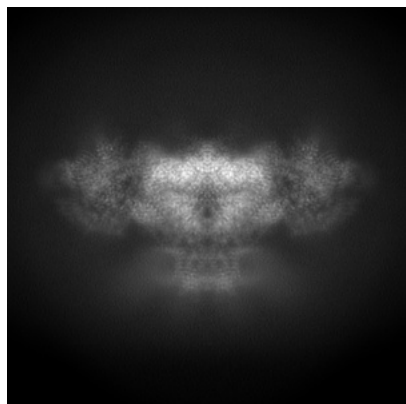
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23692. These allow visual inspection of the internal detail of the map and identification of artifacts.

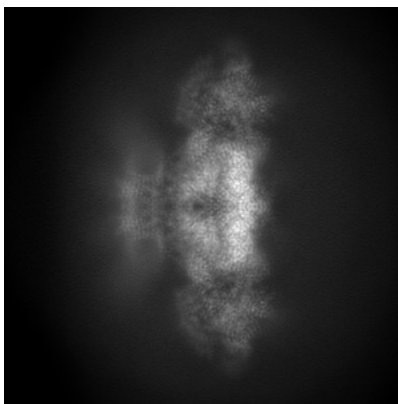
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

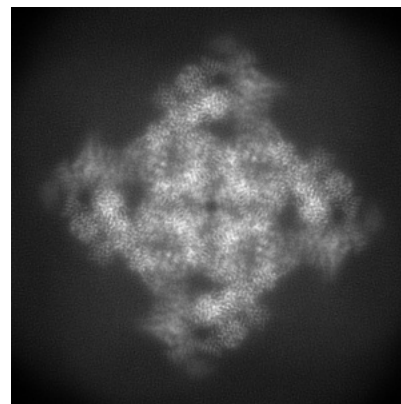
6.1.1 Primary map



X

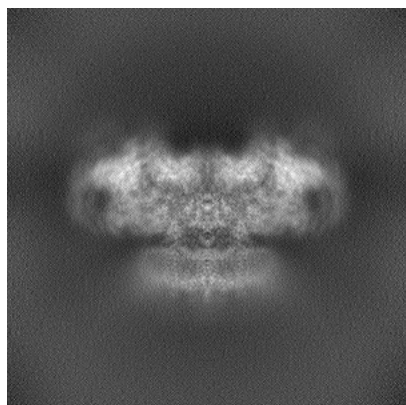


Y

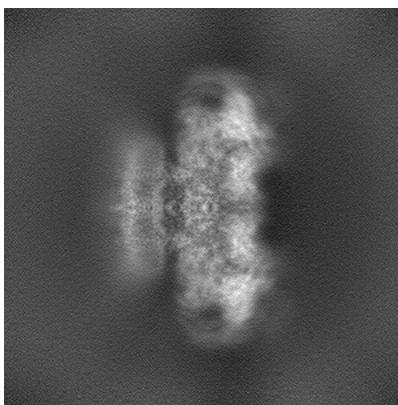


Z

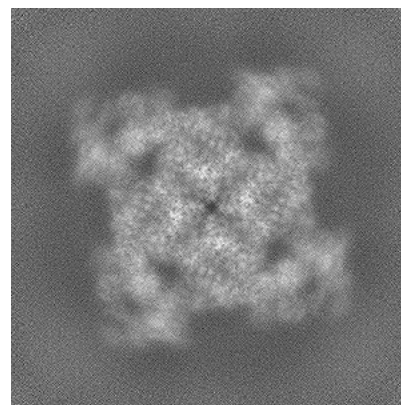
6.1.2 Raw map



X



Y

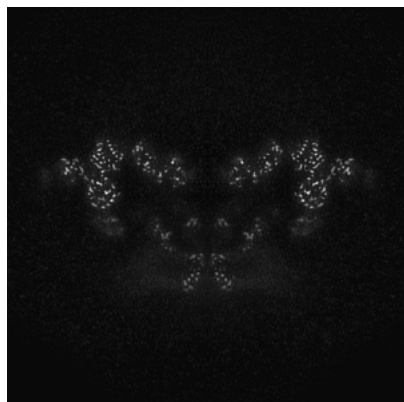


Z

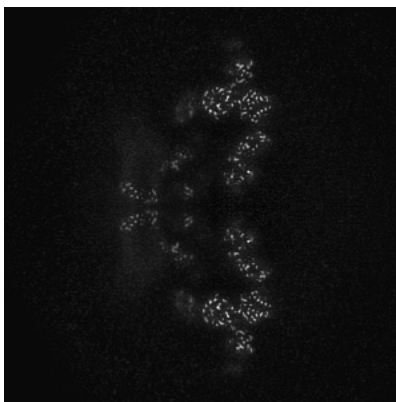
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

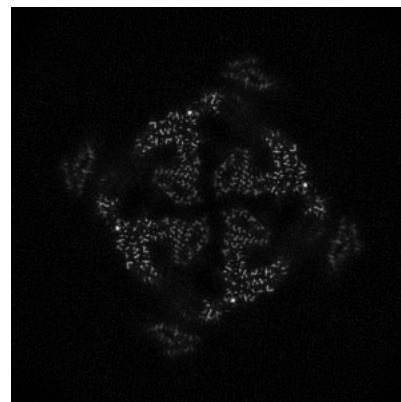
6.2.1 Primary map



X Index: 256

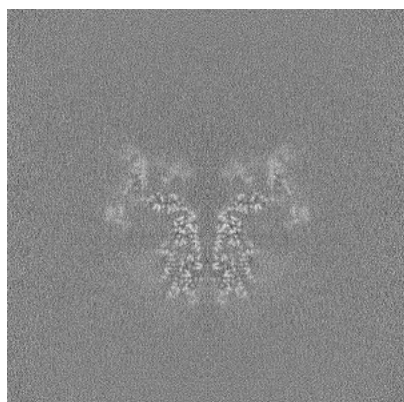


Y Index: 256

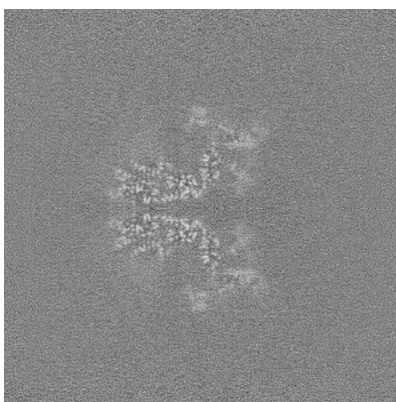


Z Index: 256

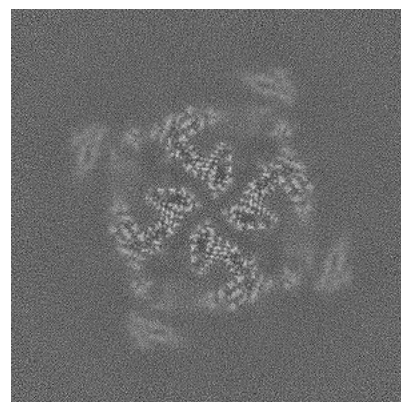
6.2.2 Raw map



X Index: 256



Y Index: 256



Z Index: 256

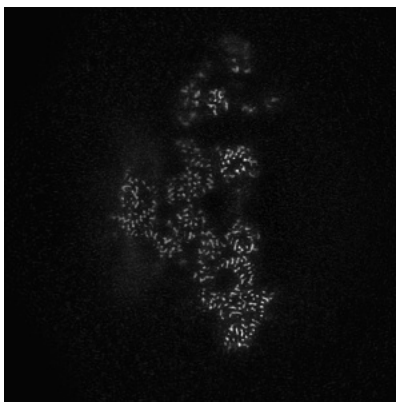
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

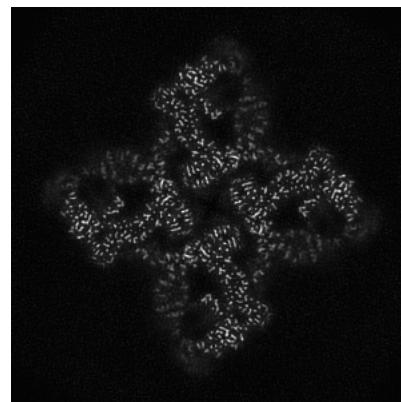
6.3.1 Primary map



X Index: 236

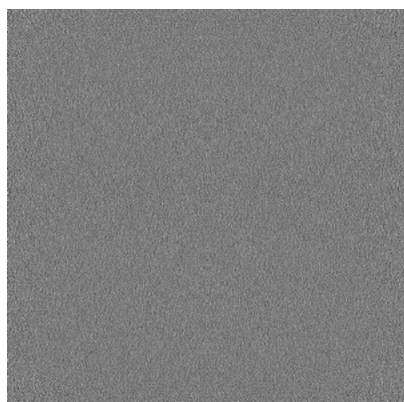


Y Index: 236

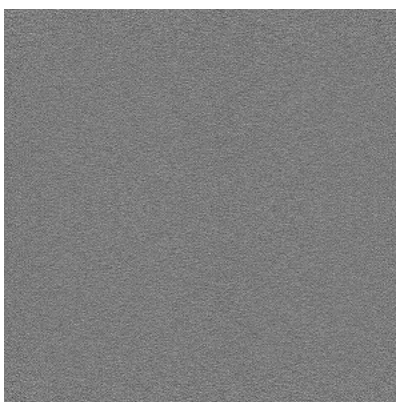


Z Index: 304

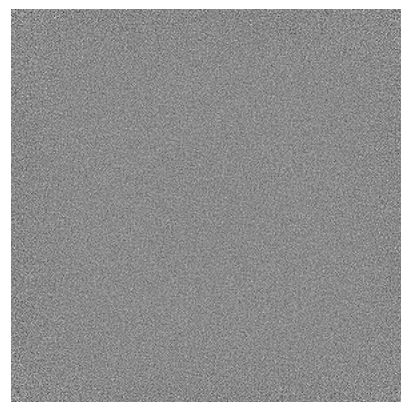
6.3.2 Raw map



X Index: 0



Y Index: 0

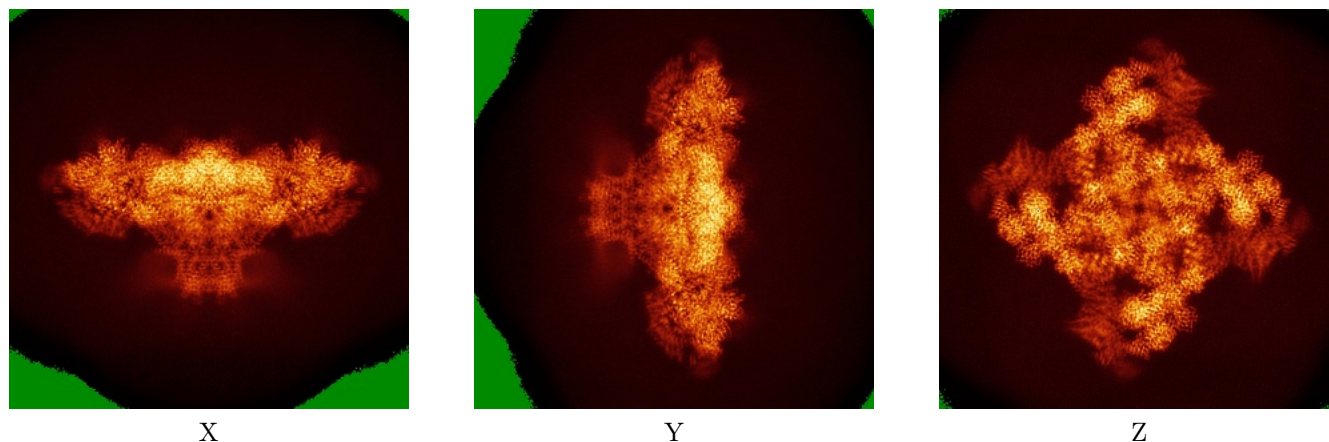


Z Index: 0

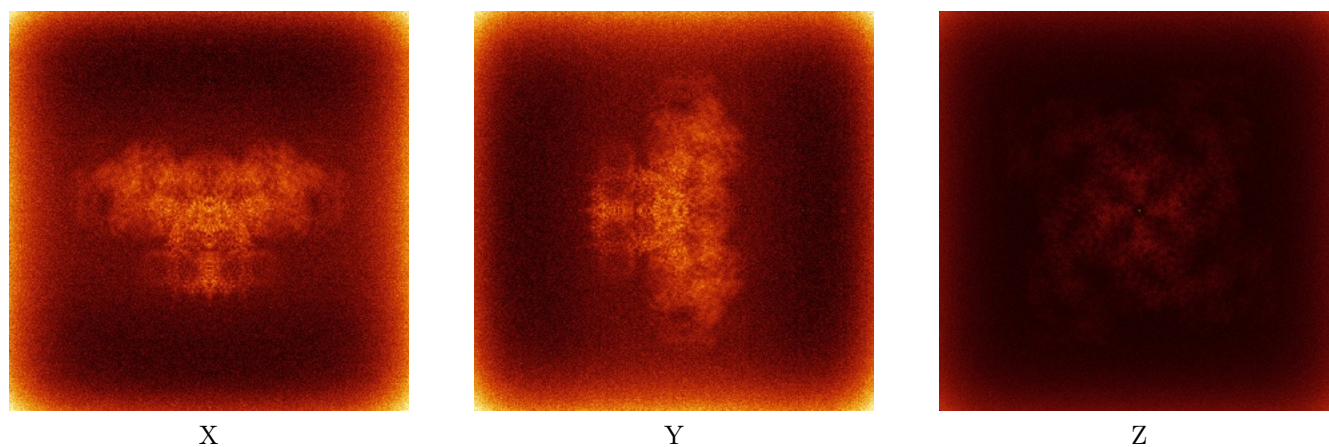
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



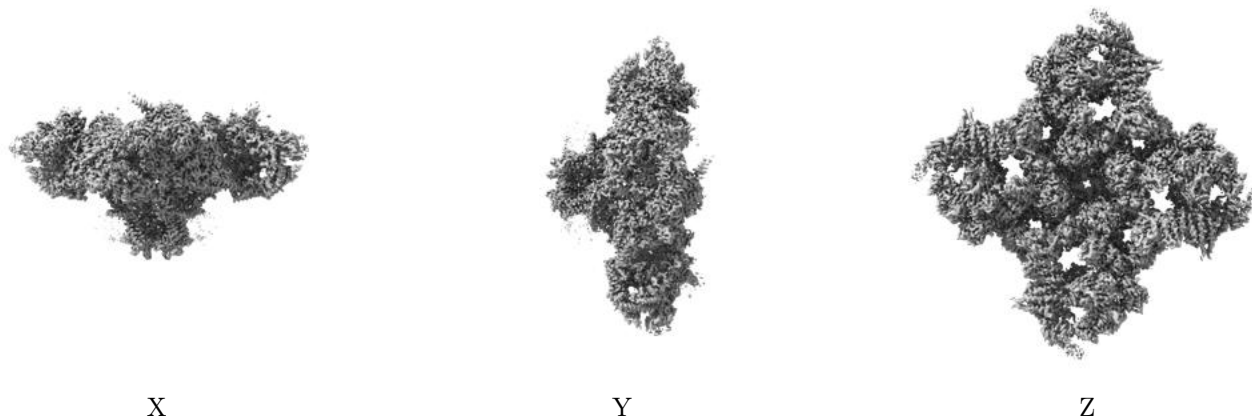
6.4.2 Raw map



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.

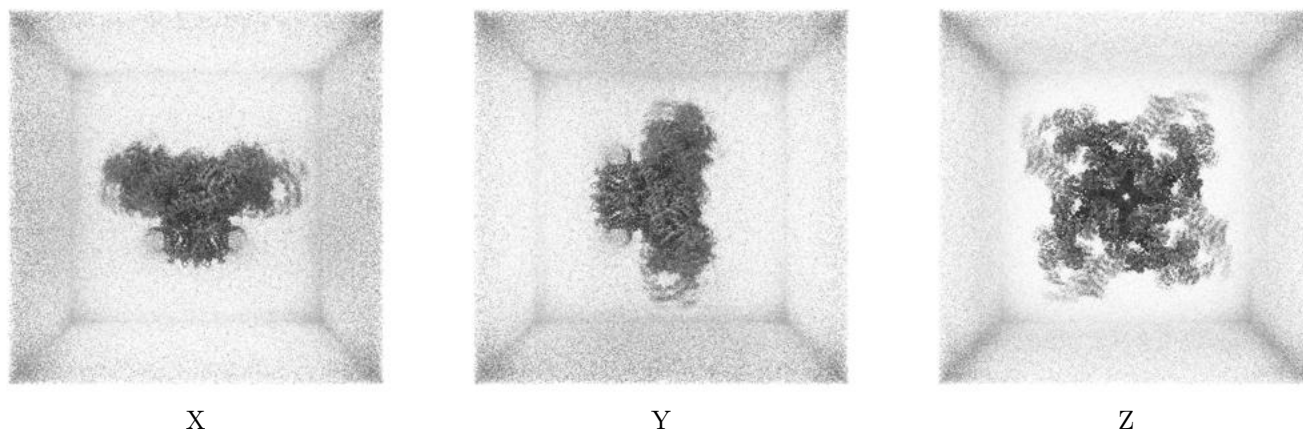
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.121. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

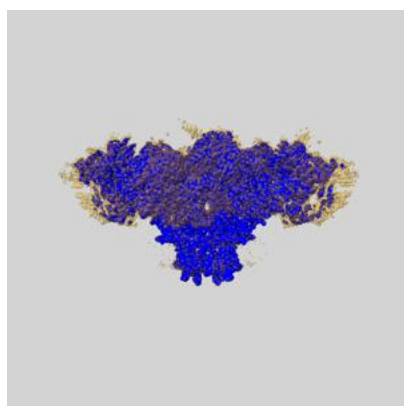
6.6 Mask visualisation [i](#)

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

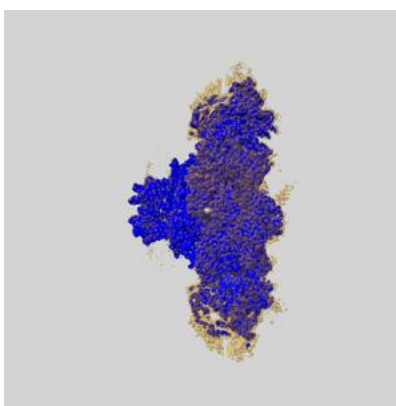
A mask typically either:

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

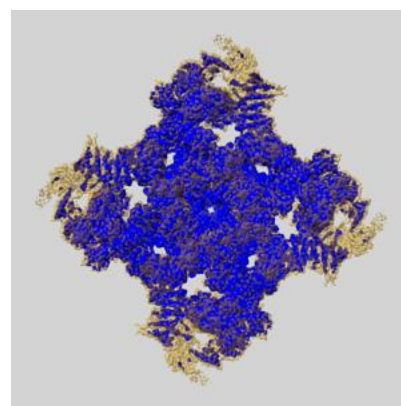
6.6.1 emd_23692_msk_1.map [i](#)



X



Y

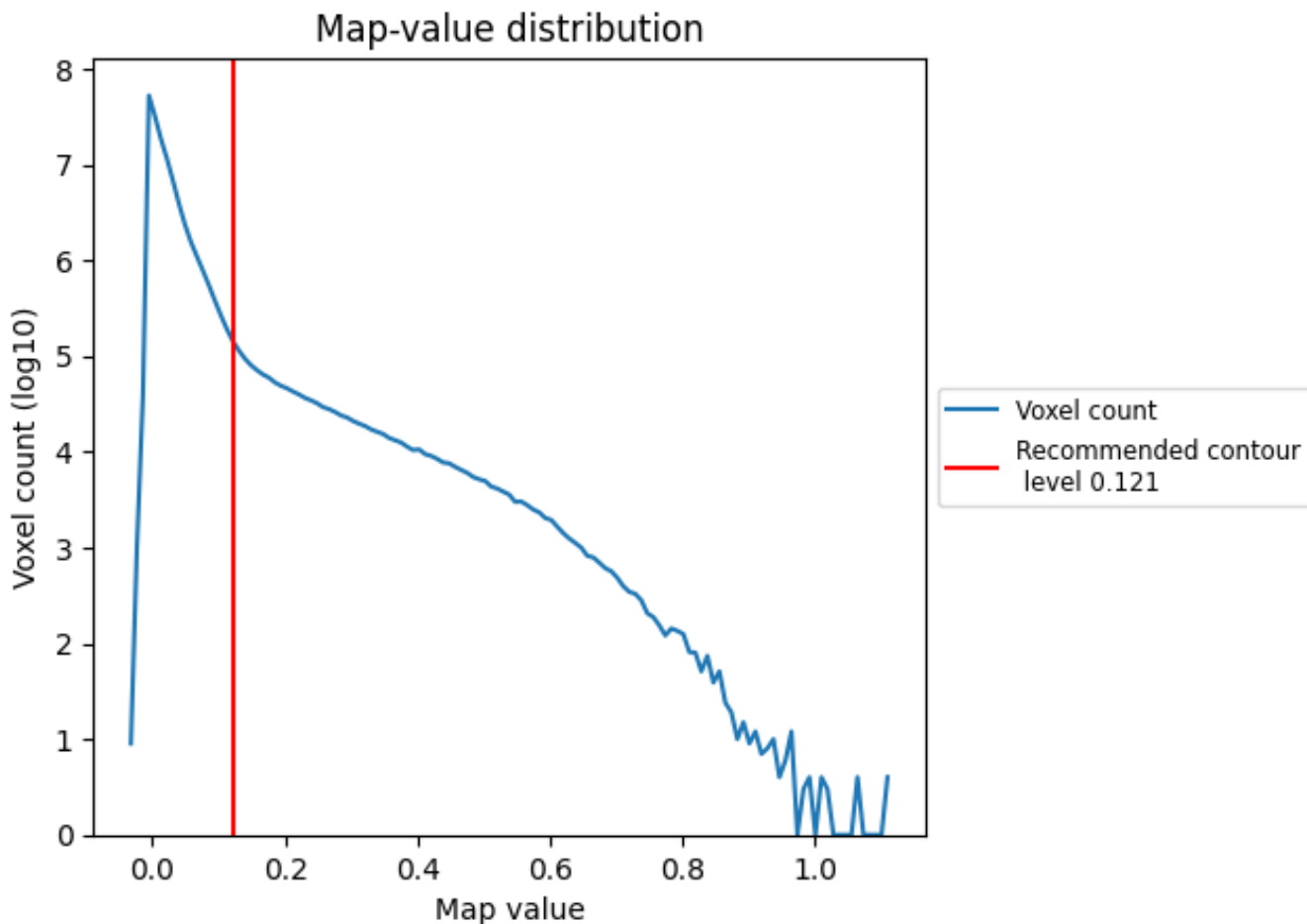


Z

7 Map analysis [i](#)

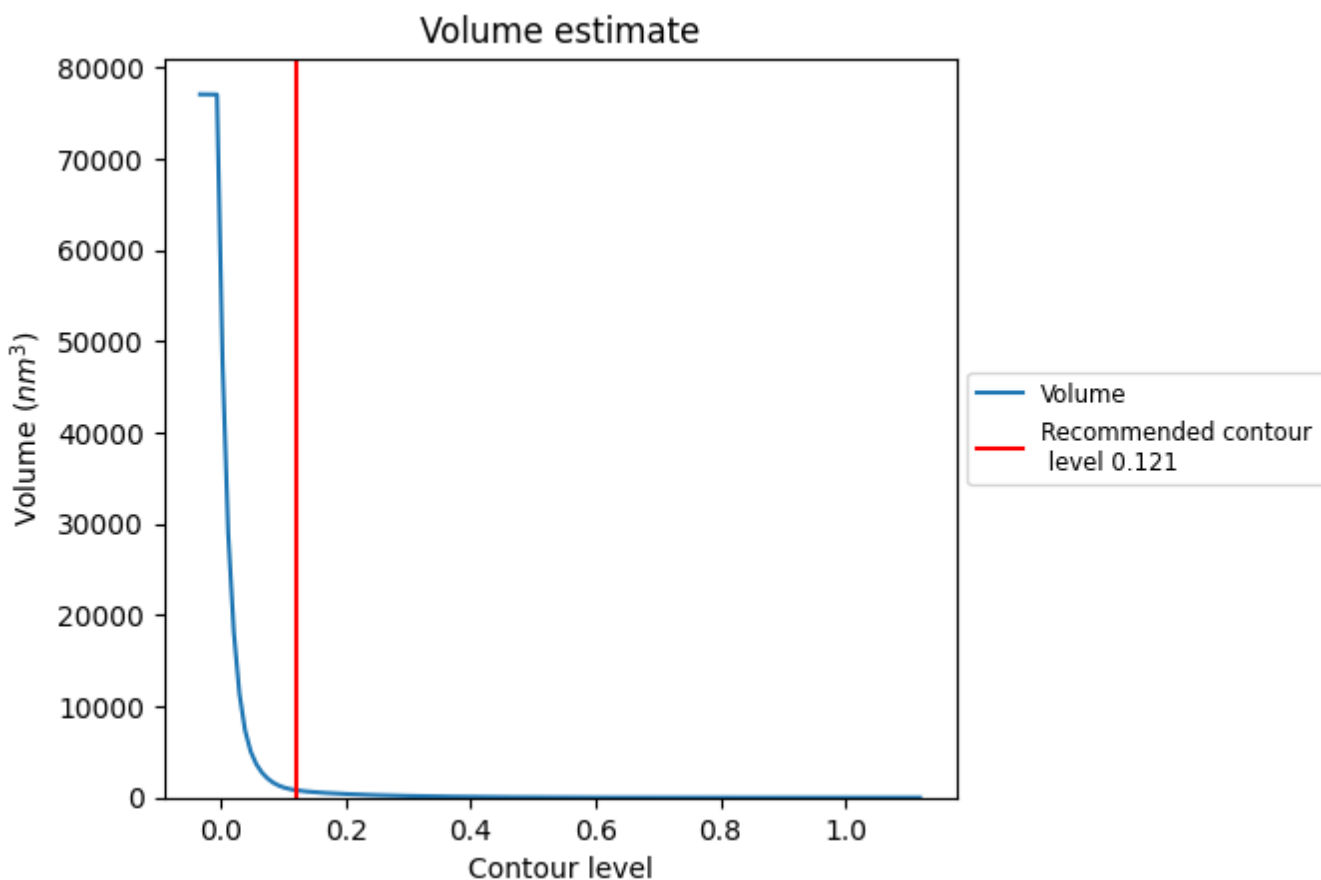
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

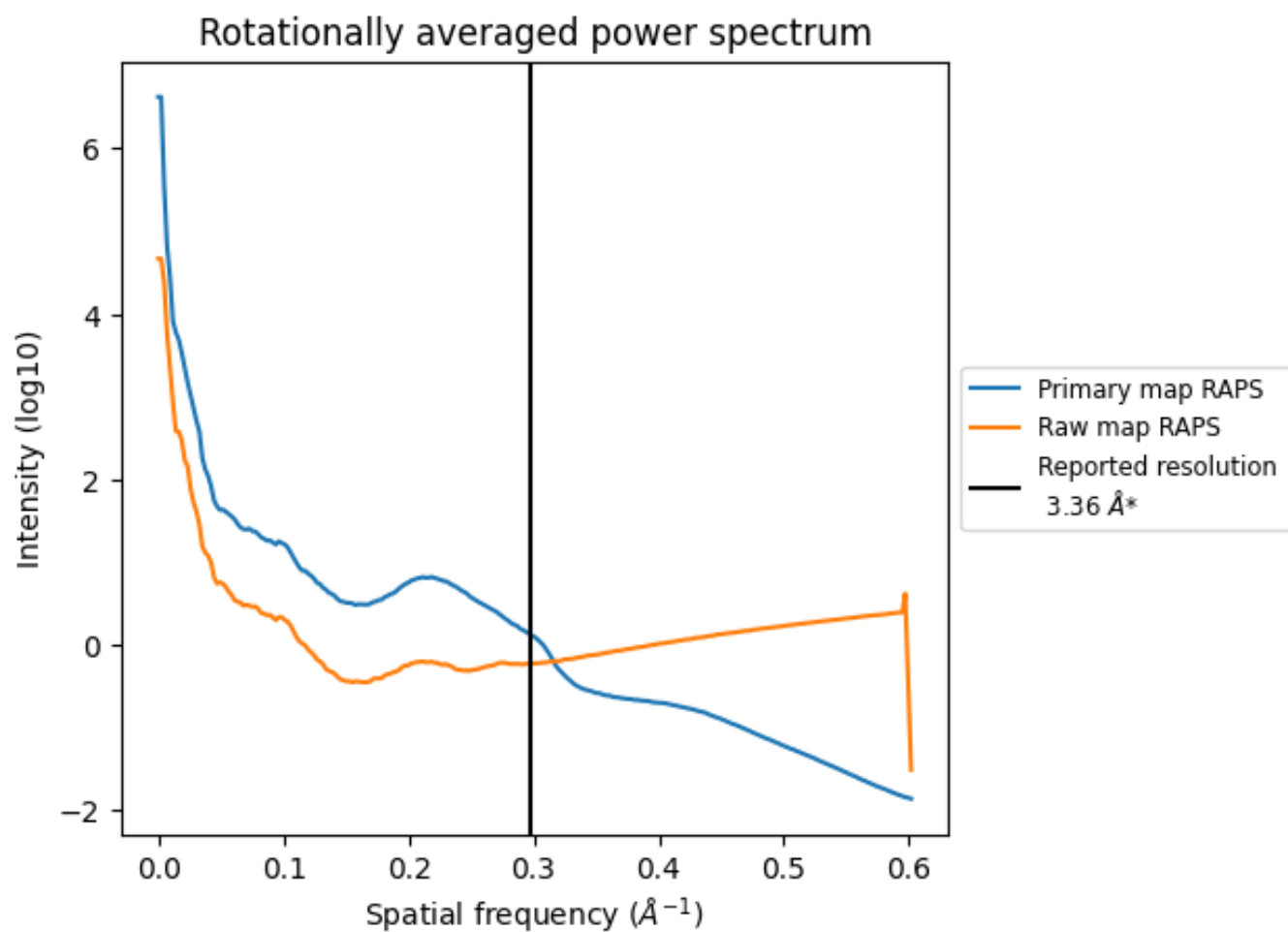
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 808 nm³; this corresponds to an approximate mass of 730 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

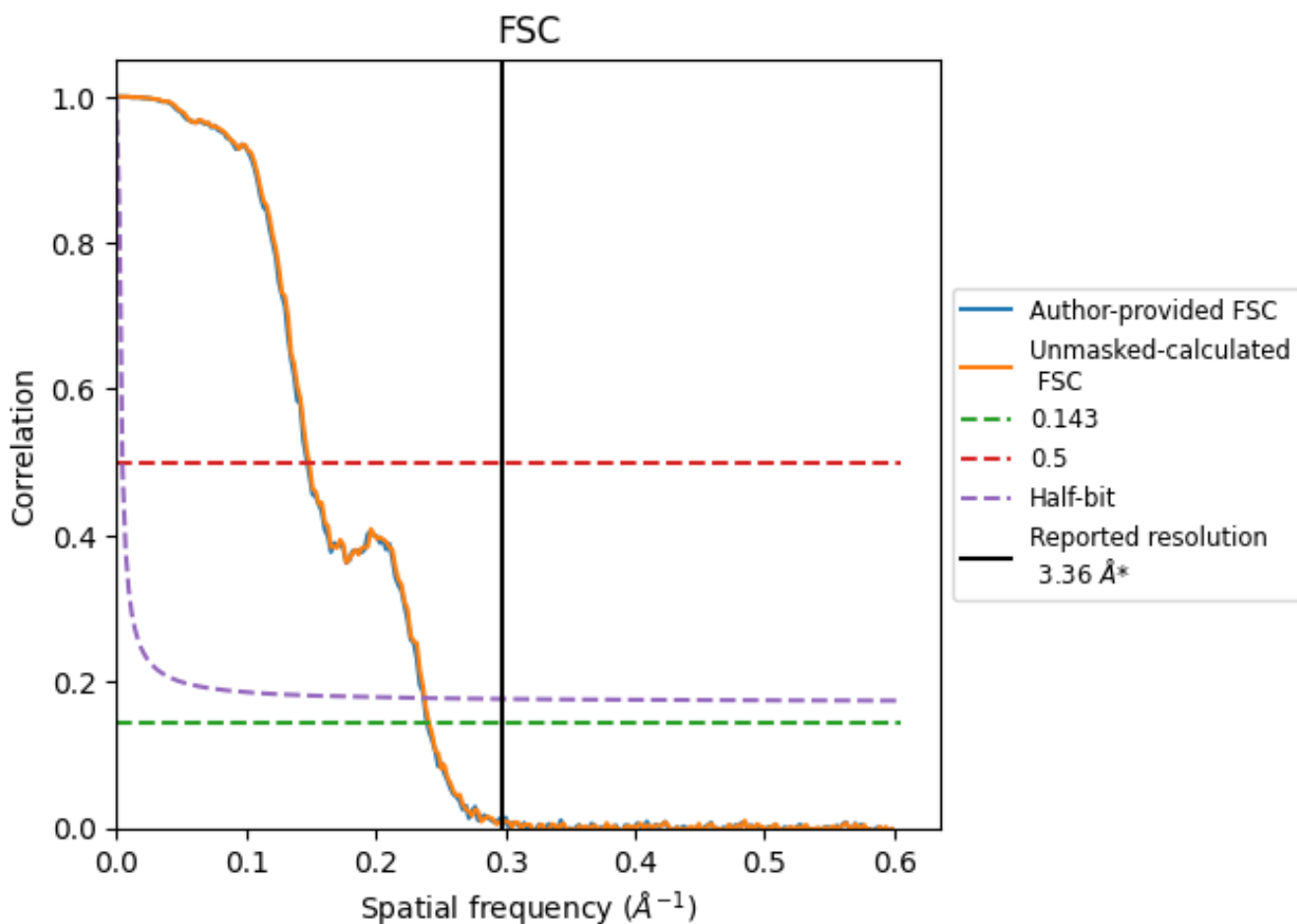


*Reported resolution corresponds to spatial frequency of 0.298 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.298 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.36	-	-
Author-provided FSC curve	4.17	6.79	4.22
Unmasked-calculated*	4.15	6.73	4.21

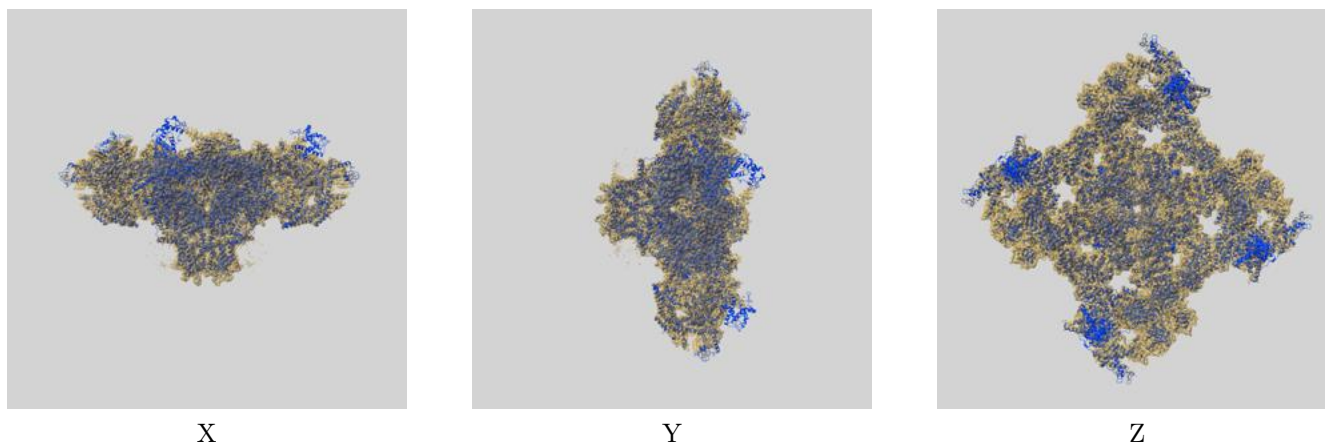
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 4.17 differs from the reported value 3.36 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.15 differs from the reported value 3.36 by more than 10 %

9 Map-model fit [i](#)

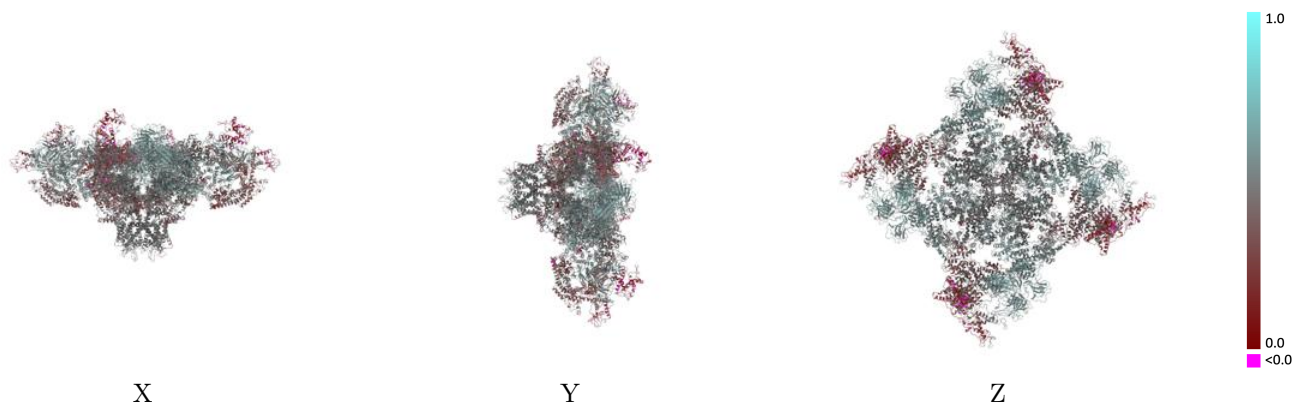
This section contains information regarding the fit between EMDB map EMD-23692 and PDB model 7M6A. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



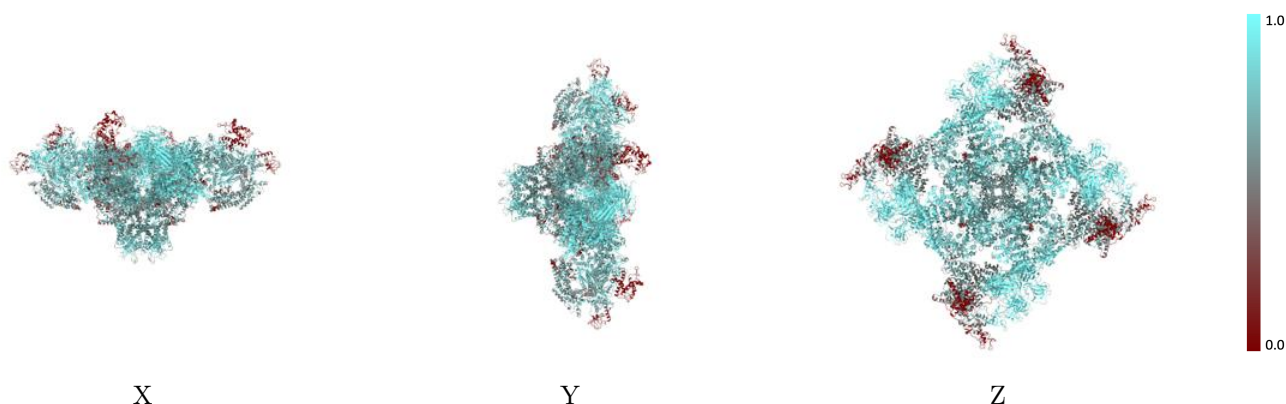
The images above show the 3D surface view of the map at the recommended contour level 0.121 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



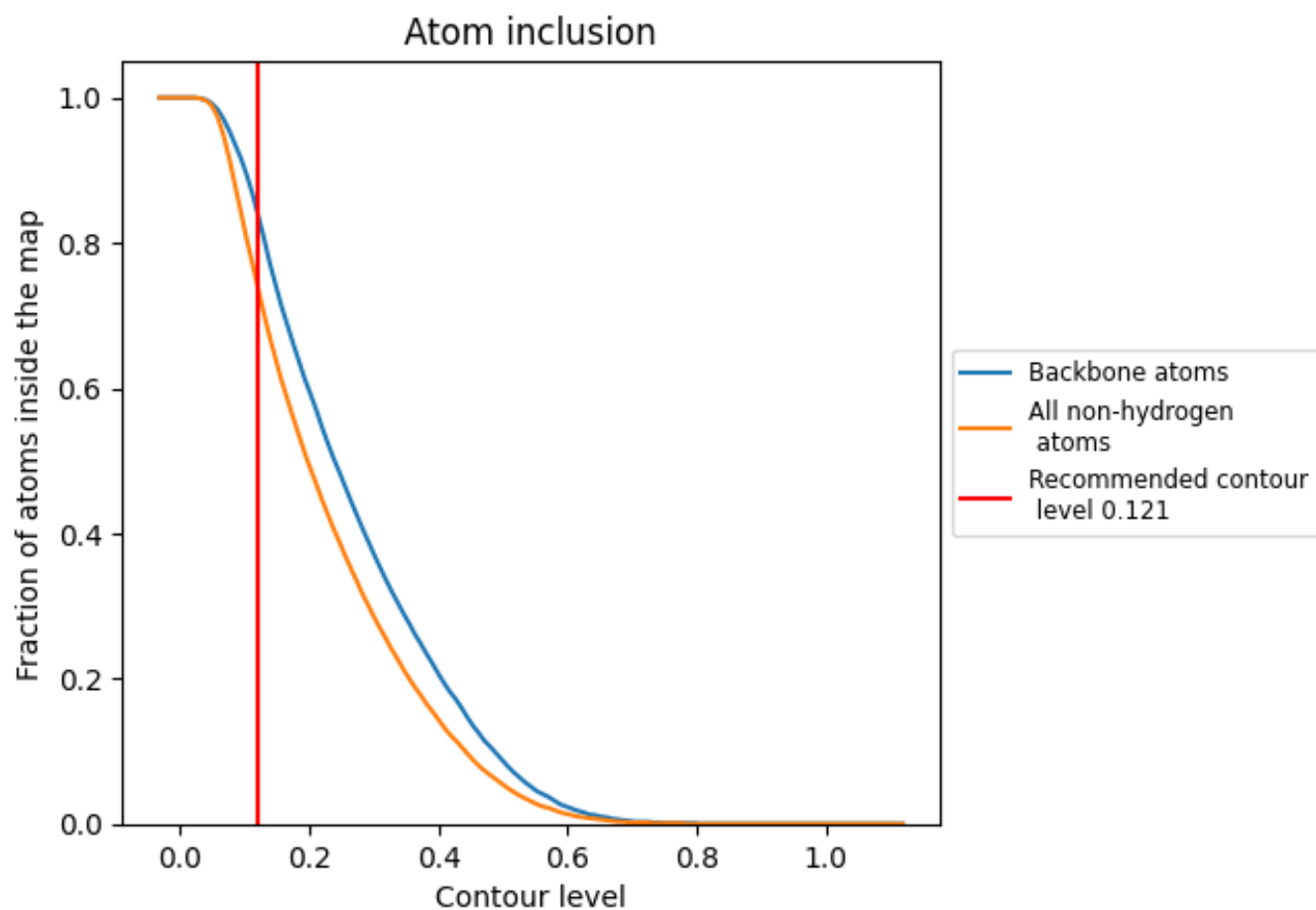
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.121).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 74% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.121) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7350	 0.4570
A	 0.7320	 0.4580
B	 0.7300	 0.4530
F	 0.8820	 0.5530
G	 0.7320	 0.4540
H	 0.8670	 0.5530
I	 0.7310	 0.4530
J	 0.8780	 0.5500
O	 0.8820	 0.5520

