



Full wwPDB EM Validation Report ⓘ

Apr 22, 2024 – 08:05 pm BST

PDB ID : 6ZHE
EMDB ID : EMD-11219
Title : Cryo-EM structure of DNA-PK dimer
Authors : Chaplin, A.K.; Hardwick, S.W.; Chirgadze, D.Y.; Blundell, T.L.
Deposited on : 2020-06-23
Resolution : 7.24 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.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

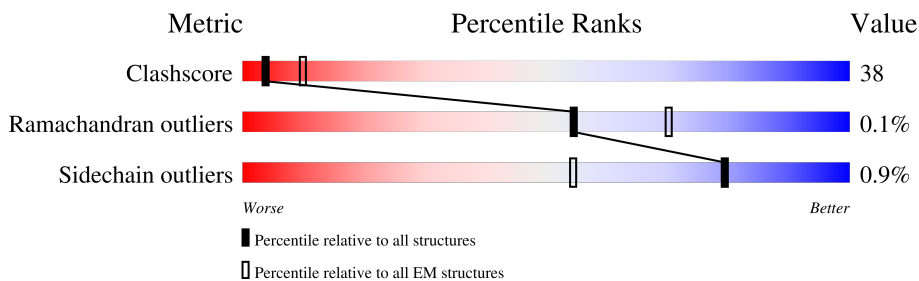
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.24 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.



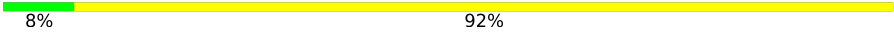

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	4156	 35% 55% 9%
1	F	4156	 35% 55% 10%
2	B	609	 31% 49% 20%
2	G	609	 35% 44% 20%
3	C	732	 44% 52%
3	H	732	 44% 52%
4	J	25	 20% 80%
5	I	27	 26% 74%

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Mol	Chain	Length	Quality of chain
6	D	26	 8% 92%
7	E	28	 18% 82%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 78785 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 DNA-dependent protein kinase catalytic subunit,DNA-PKcs.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	3768	Total	C	N	O	S	0	0
			29018	18632	4914	5293	179		
1	F	3731	Total	C	N	O	S	0	0
			29012	18636	4896	5295	185		

- Molecule 2 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	489	Total	C	N	O	S	0	0
			3789	2430	640	704	15		
2	G	489	Total	C	N	O	S	0	0
			3797	2434	640	708	15		

- Molecule 3 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	705	Total	C	N	O	S	0	0
			5490	3502	927	1037	24		
3	H	700	Total	C	N	O	S	0	0
			5517	3522	929	1041	25		

- Molecule 4 is a DNA chain called DNA (25-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
4	J	25	Total	C	N	O	P	0	0
			509	244	86	154	25		

- Molecule 5 is a DNA chain called DNA (27-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
5	I	27	Total	C	N	O	P	0	0
			552	265	102	158	27		

- Molecule 6 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
6	D	26	528	253	89	160	26	0	0

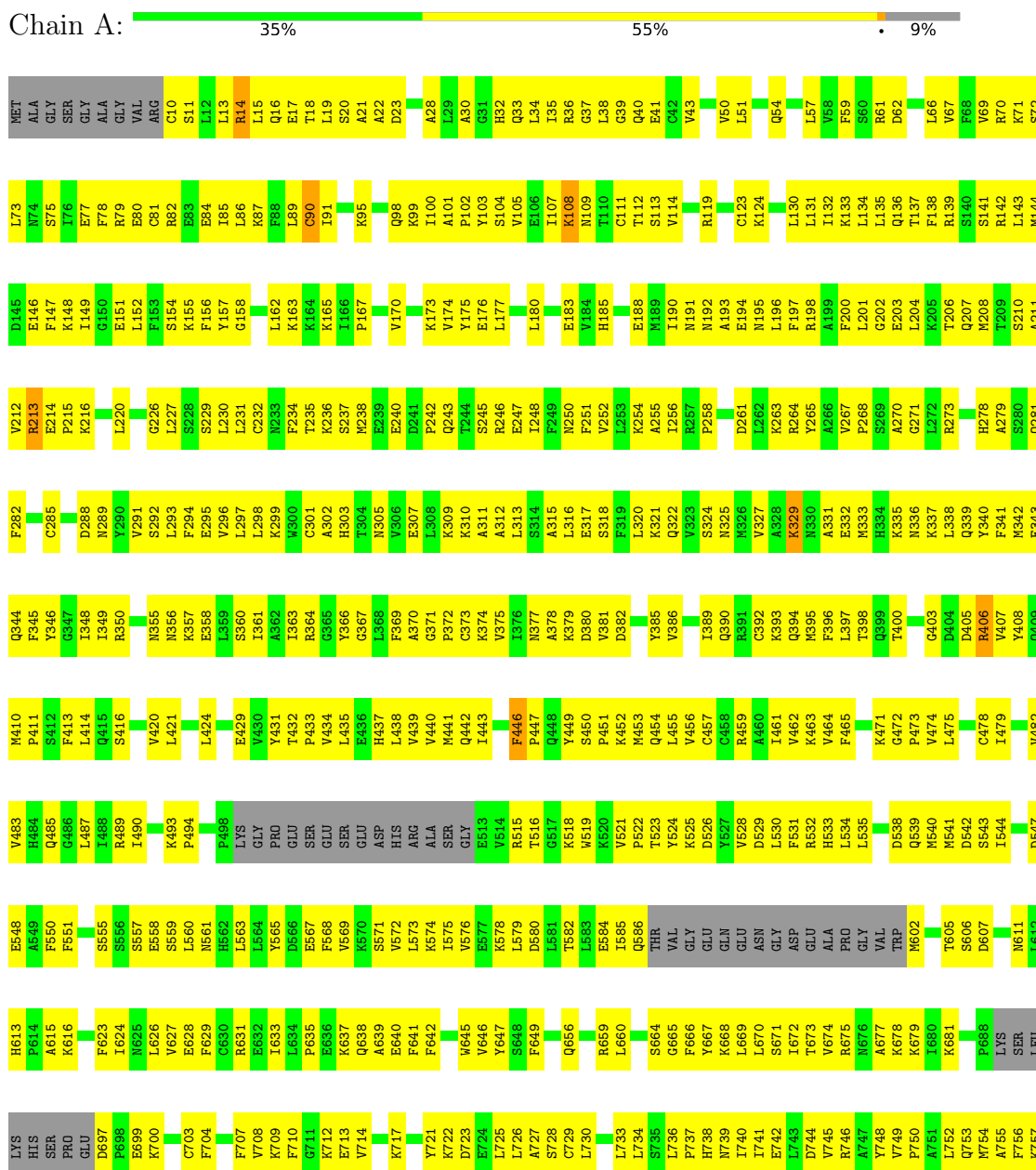
- Molecule 7 is a DNA chain called DNA (28-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
7	E	28	573	275	107	163	28	0	0

3 Residue-property plots

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

- Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-PKcs



A3931	V3852	T3790	A3720	Q3494	L3416	L3348	K3267	L3135	I3065	D2992
M3932	G3853	Y3791	G3721	F3495	A3417	A3349	T3268	T3136	D3066	W2923
E3933	A3854	S3792	F3722	I3496	D3418	E3350	R3269	E3137	K3067	W2924
T3934	Y3855	D3723	L3652	L3360	F3419	L3351	R3270	I3138	A3068	E2995
G3935	M3856	R3653	L3562	L3360	D3420	E3352	D3271	K3139	K3069	L2996
G3936	M3654	D3562	L3499	L3350	C3421	E3352	W3272	E3140	H3070	L2997
V3937	K3796	Q3564	H3501	M3502	R3425	R3357	L3273	F3141	G3071	K2998
H3944	F3659	G3565	M3502	L3505	E3429	I3358	V3274	I3142	E3072	L2999
A3945	N3650	G3566	L3505	L3505	A3429	I3359	S3275	S3143	L3073	L2999
F3946	T3663	V3567	L3507	D3507	ASN	L3360	W3276	F3144	K3074	Y2930
G3947	N3664	L3568	K3508	K3508	ALA	L3361	W3277	I3145	K3075	R2931
A3949	M3665	L3571	A3511	A3511	SER	E3361	Q3278	K3146	H3004	G2934
T3950	L3666	I3572	A3512	A3512	VAL	S3366	S3279	K3147	L3076	E2935
Q3951	M3667	M3573	A3513	A3513	ASP	S3367	R3282	G3149	L3077	F2936
F3952	L3668	A3574	A3514	A3514	ILE	E3368	L3283	W3008	E3077	D2937
L3953	D3669	L3575	A3515	A3515	SER	D3369	R3283	W2938	W3008	W2938
P3954	K3670	K3586	Q3515	Q3515	ALA	E3438	R3287	R2940	K3009	L2939
V3955	M3671	D3587	H3516	H3516	E3438	K3372	R3287	Q2941	S3010	R2940
P3960	K3672	K3588	H3516	H3516	P3443	V3373	S3290	L2942	L3011	G2941
F3961	S3673	M3588	S3517	S3517	P3443	I3374	S3290	F2943	L3011	G2941
I3968	S3674	S3589	A3375	A3375	V3446	I3374	Q3291	F2943	L3019	F2943
N3969	K3675	M3590	V3518	V3518	V3446	A3375	G3292	K3158	D3020	F2943
L3970	P3676	D3591	E3520	E3520	K3449	L3377	C3293	R3159	S3087	T2944
M3971	P3677	V3592	E3520	E3520	M3450	L3377	S3294	L3160	L3088	S2945
L3972	K3681	K3602	D3529	D3529	K3450	Q3379	E3295	L3161	L3089	S2945
P3973	E3682	M3603	V3529	V3529	K3451	Q3379	E3295	L3161	Y3090	L2946
M3974	C3683	K3604	M3603	M3603	K3452	Q3379	L3298	L3162	L3027	L2946
K3975	M3686	M3603	K3602	K3602	K3455	H3384	L3306	T3163	K3028	L2947
E3976	D3689	K3604	K3604	K3604	A3461	S3385	L3306	T3164	K3029	G2948
T3977	F3690	M3613	M3613	M3613	R3462	E3388	L3307	W3165	L3092	G2948
L3979	K3691	Y3614	Y3614	Y3614	L3463	A3388	E3309	K3158	L3092	Q2951
M3980	V3692	Y3614	F3533	F3533	K3464	S3387	F3326	I3030	L3092	Q2951
Y3981	E3693	A3615	L3534	L3534	K3465	Q3390	M3310	W3177	D3094	L2952
S3982	F3694	A3616	L3535	L3535	P3466	Q3391	M3311	I3178	K3032	T2953
L3983	L3695	L3617	S3536	S3536	R3467	A3391	N3311	W3179	E3033	Q2954
V3984	R3696	G3626	E3537	E3537	L3468	E3392	S3314	D3180	P3034	Q2954
M3989	N3697	A3627	E3538	E3538	L3469	E3394	Y3315	D3181	F3035	L2957
Y3990	L3699	F3628	S3539	S3539	Q3470	E3395	L3316	I3182	Y3036	L2958
S3992	E3700	R3629	S3541	S3541	I3471	A3396	K3317	I3183	Y3036	L2958
L3993	L3701	K3650	F3542	F3542	L3472	G3396	K3318	T3184	Q3037	A2959
M3994	Q3762	L3695	S3542	S3542	E3473	PRO	I3320	R3185	E3038	R2962
L3997	R3763	R3696	K3543	K3543	R3474	PRO	L3321	R3186	Y3040	S2963
L3999	V3764	R3696	D3544	D3544	Y3475	PRO	L3321	C3187	L3041	D2964
Y3999	E3765	N3697	T3545	T3545	Y3475	TRP	F3252	I3188	L3042	Y2965
M4000	Q3766	E3698	S3547	S3547	E3478	SER	S3253	F3189	E2967	E2966
T4001	L3767	L3699	T3547	T3547	T3479	SER	L3254	L3190	I3045	E2967
	F3768	R3629	G3548	G3548	L3480	GLY	F3323	K3188	R3046	K2970
	Q3769	K3638	H3549	H3549	S3481	PRO	A3322	K3189	S3047	K2970
	P3711	E3639	N3551	N3551	L3482	PRO	F3252	L3049	S3047	Q2971
	L3712	K3642	F3552	F3552	E3486	PRO	S3253	L3117	K3048	Y2972
	P3713	H3643	F3554	F3554	L3487	PRO	A3255	Q3249	L3051	E2974
	V3717	G3644	A3555	A3555	P3491	PRO	K3256	K3192	L3053	K2978
	I3719	K3646	R3557	R3557	G3412	PRO	I3328	K3193	Q3054	Q2979
					Y3413	PRO	L3329	E3194	G3055	D2990
					M3492	PRO	L3329	E3195	E3056	W2991
					K3492	PRO	T3333	K3196	L3126	V2982
					G3492	PRO	T3333	L3129	T3127	G2984
					W3493	PRO	I3337	Q3130	Q3059	Q2984
								A3134	L3061	E2885
									L3062	P2986
									F3064	K2991

M4002	D4003	F4005	V4006	K4007	E4008	F4009	S4010	F4011	E4012	K4013	M4014	M4015	F4016	E4017	K4018	M4019	M4020	L4021	K4022	M4027	A4034	E4035	K4036	M4037	M4038	T4044	C4045	Y4046	M4047	M4048	R4049	K4050	M4051	A4052	M4055	C4061	D4062	E4063	L4064	L4065	L4066	G4067	H4068	E4069	M4070	A4071	P4072	A4073	F4074	R4075	D4076	M4077	Y4078
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A4079	R4082	G4083	K4084	K4085	M4088	I4089	Q4092	E4095	L4098	S4099	E4100	E4101	T4102	Q4103	V4104	K4105	C4106	L4107	Q4110	D4113	P4114	M4115	I4116	L4117	G4118	T4119	T4120	W4121	P4126	W4127	X6006	X6007	X6008	X6009	X6010	X6011	X6012	X6013	X6014	X6015	X6023
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● Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-PKCs



MET	ALA	GLY	SER	GLY	ALA	GLY	VAL	ARG	C10	S11	L12	L13	R14	L15	Q16	E17	T18	L19	S20	A21	A22	D23	I100	R24	C25	L34	L35	R36	G37	L38	C42	V43	S46	S47	F48	L51	Q54	T55	V58	F59	R61	L66	V67	F68	V69	R70	K71	S72	L73	H74	S75	I76
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F77	F78	R79	E80	C81	R82	E83	S84	L85	L86	K87	F88	L89	C90	I91	K95	M96	G97	Q98	K99	I100	S104	V105	E106	I107	K108	C111	Y115	T116	K117	D118	S46	I125	F126	A127	L128	D129	Q54	T55	V58	F59	R61	L66	V67	F68	V69	R70	K71	S72	L73	H74	S75	I76
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E151	L152	F153	S154	K155	E159	L162	K163	K164	F88	V170	L171	E172	K173	V174	E176	L177	L178	L180	L181	G182	H185	P186	S187	E188	M189	I189	N191	M192	A193	E194	F197	R198	A199	F200	L130	L131	G202	L132	K133	L134	L135	F138	R139	S140	S141	R142	L143	M144	D145	E146	F147	K148	L220
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L224	G226	L227	S228	S229	M233	K236	S237	M238	E239	E240	D241	P242	S245	R246	F249	M250	F251	V252	L255	K254	A255	L256	R257	P258	D259	L260	D261	L262	K263	R264	Y265	A266	V267	P268	S269	L201	G202	L131	E203	L204	K205	T206	T209	S210	A211	V212	R213	E214	M215	K216	L217	S218	F219	F294
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E295	V296	L297	L298	K299	M300	H303	T304	N305	V306	E307	L308	K309	K310	A311	A312	L313	S314	A315	L316	E317	S318	F319	L320	K321	S324	M325	N326	K327	V327	K328	K329	N330	A331	E332	K333	H334	K337	L338	Q339	Y340	F341	M342	E343	Q344	F345	Y346	R350	M351	V352	P353	S354	K357	E358	L359	S360
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L363	R364	G365	L366	G367	L368	F372	C373	K374	V375	A376	F383	K384	Y385	V386	E387	L388	Q389	C392	K393	Q394	M395	F396	L397	T398	Q399	Q403	L404	M410	F413	L414	A418	S419	Q485	V420	L421	L422	Y423	P428	F429	Y431	T432	P433	V434	L435	F436	H437	L438	V439	V440
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M441	Q442	T443	D444	S445	F446	P447	Q448	Y449	S450	G451	K452	M453	Q454	L455	V456	C457	C458	R459	A460	L461	V462	K463	V464	A467	L468	K471	V474	L475	R476	M477	C478	L479	S480	T481	Y482	V483	H484	Q485	Q486	L487	L488	R489	L490	C491	F568	S492	K493	L497	P498	LYS	GLY	PRO	GLU	SER
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GLU	ASP	HIS	ARG	ALA	SER	GLY	GLU	VAL	ARG	THR	GLU	THR	GLN	GLY	ASN	K520	Y523	M524	Y527	V528	L535	S536	S537	D538	Q539	M540	M541	L542	S543	I544	D547	L549	E548	V553	N554	S559	L560	N561	H562	L563	L564	Y565	D566	E567	F568	V569	K570	S571	P644	V645	L646	V647	L648	S649	F649	E577	K578	L579
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D580	L581	T582	L583	E584	L585	Q586	THR	VAL	GLY	GLU	ASN	ASP	GLU	ALA	GLY	M602	H613	P614	A615	K616	P617	K618	A622	F623	L624	N625	F629	C630	R631	E632	L633	L634	P635	M636	K637	Q638	A639	E640	F641	F642	E643	E644	M645	V646	V647	S648	F649	S650	Y651	E652
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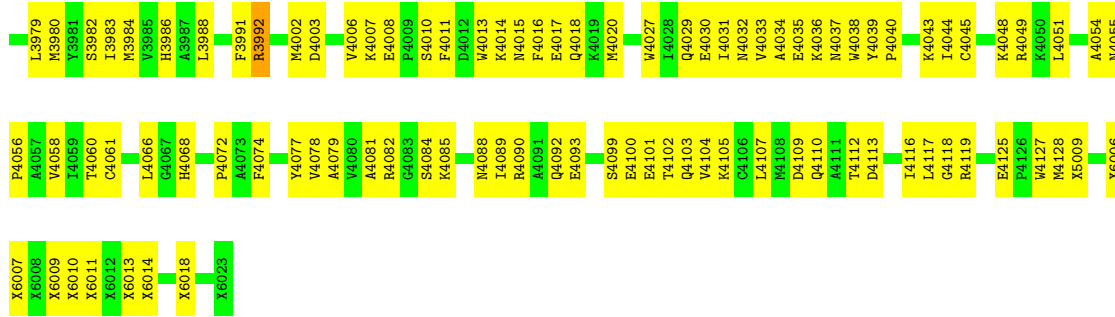
L653	L654	L655	Q656	S657	T658	R659	T663	S664	G665	F666	Y667	K668	L669	L670	S671	A672	T673	A677	K678	K679	I680	F683	S687	P688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	F704	V708	K712	K717	K719	Q720	L721	K722	L723	E724	L725	L726	A727
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S728	C729	L730	T731	F732	L736	F737	H738	M739	I740	I741	D744	V745	F746	A747	V748	V749	L752	Q753	M754	A755	F756	G759	Y762	T763	P764	L765	A766	A767	H768	M771	A772	E775	M776	D781	H782	H783	V784	M785	Q786	M789	K790	L791	I792	L793	P794	C795	L796	D797	K801
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

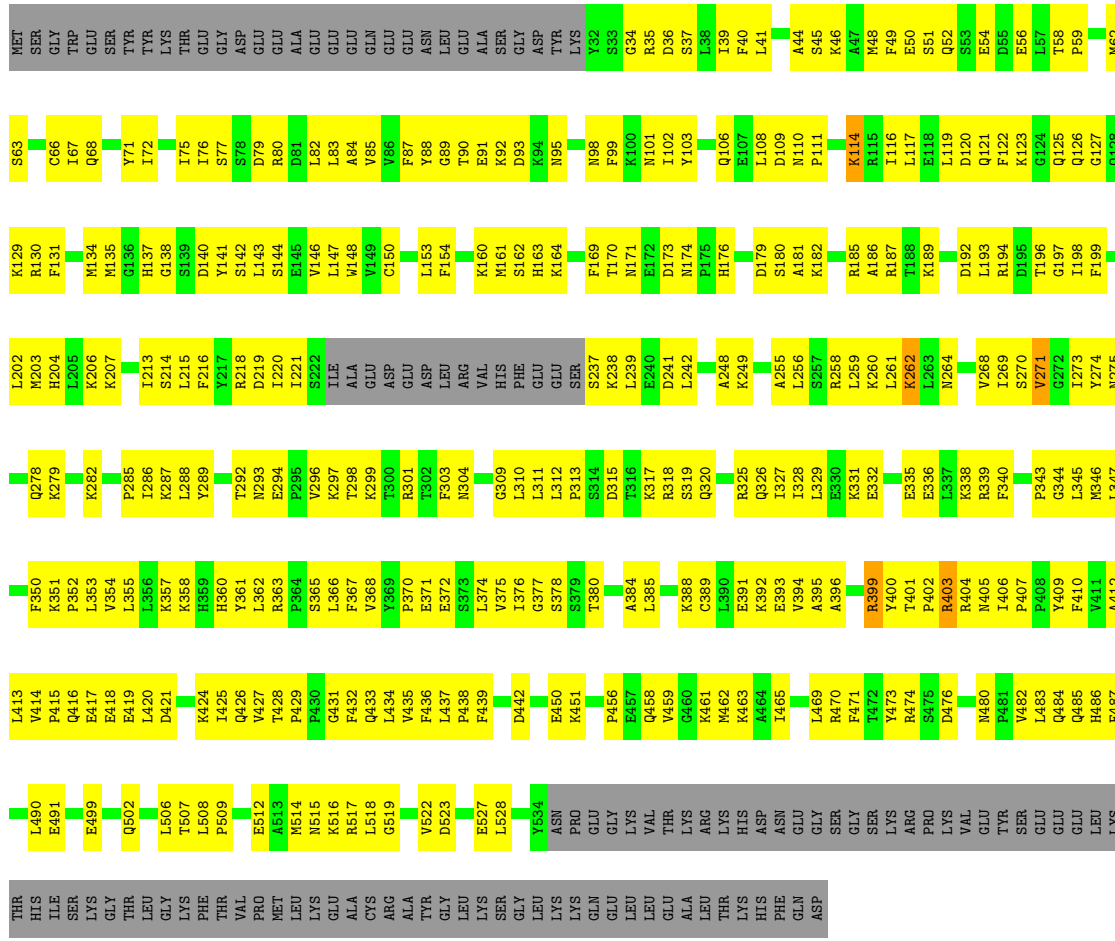
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------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

D1846	S1781	V1713	K1642	L1577	G1513	M1369	F1296	T1223	A1081	E1002	M937	L870
A1847	F1782	L1714	M1643	A1578	L1514	R1370	F1297	F1224	F1082	S1003	Y938	L871
D1848	R1783	Q1716	A1644	L1580	L1515	L1447	L1298	L1298	R1083	Q1004	M939	L872
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L1854	C1791	L1684	L1649	L1584	A1484	C1377	M1303	Q1231	R1087	L1016	G943	E878
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F1874	L1663	S1539	S1539	S1539	L1467	V1391	GLY	G1246	V1100	G1029	P957	R851
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F1817	Y1675	S1549	S1549	S1549	L1481	L1407	L1407	H1185	Q1048	S1052	L977	P903
Q1818	L1676	V1550	V1550	V1550	L1482	K1407	K1407	S1187	Q1049	M1055	R971	V904
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D1888	L1678	H1552	H1552	H1552	S1485	L1411	L1411	E1189	L1046	K1057	A973	F906
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A1891	L1684	H1555	H1555	H1555	Y1488	L1414	L1414	Y1192	Q1048	E1051	Y979	V909
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L1825	L1688	Y1558	Y1558	Y1558	A1492	H1418	H1418	V1195	R1126	S1052	Q982	R913
L1826	L1688	F1559	F1559	F1559	P1493	L1419	L1419	L1198	A1130	M1055	R983	V914
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H1830	L1685	F1563	F1563	F1563	I1423	I1423	I1423	L1206	L1134	S1058	N988	R924
C1831	L1685	S1564	S1564	S1564	T1424	T1424	T1424	W1207	R1136	L1059	N989	R924
D1834	L1685	E1565	E1565	E1565	Q1426	Q1426	Q1426	E1285	F1060	F1060	Q990	Q925
A1835	L1685	T1566	T1566	T1566	S1427	S1427	S1427	K1209	K1061	K1061	L991	T926
L1836	L1702	M1567	M1567	M1567	D1504	I1428	I1428	D1210	R1062	R1062	L992	K927
L1837	L1703	Y1568	Y1568	Y1568	L1506	E1429	E1429	A1286	L1063	L1063	H993	V928
H1839	L1703	E1570	E1570	E1570	S1506	E1430	E1430	S1288	Y1064	Y1064	N994	A929
F1840	L1707	L1572	L1572	L1572	C1507	E1430	E1430	S1288	F1064	F1064	F994	A930
L1841	E1708	L1573	L1573	L1573	L1508	M1435	M1435	D1362	P1070	P1070	T996	C931
L1842	E1709	K1573	K1573	K1573	Q1509	Q1509	Q1509	D1362	F1073	F1073	N997	E932
L1844	L1710	L1574	L1574	L1574	L1510	L1510	L1510	C1364	M1071	M1071	Y998	L933
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V1845	R1712	D1576	D1576	D1576	D1444	D1444	D1444	H1366	F1073	F1073	K1000	H935
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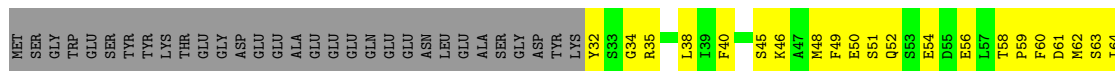
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F2850	F2850	W2525	V2459	W2525	V2459	L2394	M2330	K2262	W2196	M2127	SER	VAL
F2851	F2851	S2526	E2460	S2526	E2460	T2395	M2331	K2263	F2197	F2128	SER	GLU
F2852	P2852	H2527	F2461	H2527	F2461	L2396	L2332	D2264	G2198	L2129	VAL	VAL
F2853	P2853	H2527	V2462	H2527	V2462	C2397	R2333	P2265	L2199	H2130	GLN	PRO
F2854	F2854	R2530	S2463	R2530	S2463	L2398	R2333	N2266	L2199	H2130	MET	PRO
V2855	V2855	L2531	H2464	L2531	H2464	E2399	T2336	S2267	T2201	L2133	GLU	GLU
V2856	V2856	P2532	P2465	P2532	P2465	W2400	L2337	K2268	T2202	P2136	ARG	ARG
C2857	C2857	S2533	S2466	S2533	S2466	V2401	E2338	D2269	T2203	P2136	ARG	ARG
C2857	C2857	N2534	T2467	N2534	T2467	L2402	N2339	N2270	ALA	P2139	LYS	LYS
I2858	I2858	T2535	C2403	T2535	C2403	S2340	S2340	S2271	THR	P2139	THR	THR
I2859	I2859	L2536	L2468	L2536	L2468	R2404	V2372	S2271	GLY	L2140	THR	THR
D2860	D2860	D2537	R2470	D2537	R2470	V2405	C2342	G2273	ARG	N2141	ARG	ILE
I2861	I2861	R2538	E2471	R2538	E2471	E2406	E2343	Q2275	PHE	L2142	GLU	GLU
S2862	S2862	L2539	Q2472	L2539	Q2472	T2409	L2344	Q2275	ILE	L2142	ILE	ILE
C2863	C2863	M2473	M2473	M2473	M2473	E2410	V2345	Q2275	ARG	L2144	ARG	ARG
C2863	C2863	A2541	A2541	A2541	A2541	Y2474	A2346	R2214	ARG	L2144	ARG	ARG
H2865	H2865	L2542	N2475	L2542	N2475	L2411	K2347	L2216	GLY	L2146	GLY	GLY
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L2869	L2869	S2544	L2477	S2544	L2477	Q2413	L2349	N2283	VAL	R2148	VAL	ALA
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S2877	S2877	S2547	I2480	S2547	I2480	H2352	H2352	P2287	THR	I2151	THR	ALA
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R2880	R2880	L2550	D2482	L2550	D2482	E2419	M2356	D2289	GLY	T2153	GLY	GLY
D2801	D2801	E2551	N2484	E2551	N2484	V2421	E2357	P2290	ASP	E2154	ASP	ASP
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L2804	L2804	L2555	F2491	L2555	F2491	R2425	R2360	G2293	GLY	F2157	GLY	GLY
A2805	A2805	S2556	D2492	S2556	D2492	H2427	T2361	I2294	PRO	R2158	PRO	PRO
K2806	K2806	L2557	N2493	L2557	N2493	D2429	V2362	S2297	THR	Y2160	THR	THR
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P2813	P2813	T2559	S2495	T2559	S2495	R2431	K2367	E2298	SER	K2162	SER	SER
S2814	S2814	N2560	Q2496	N2560	Q2496	R2431	V2368	Y2299	SER	H2163	SER	SER
G2815	G2815	F2561	E2497	F2561	E2497	Q2432	T2368	F2300	LEU	P2167	LEU	LEU
L2816	L2816	L2562	F2498	L2562	F2498	K2433	R2369	L2303	TYR	L2168	TYR	TYR
L2817	L2817	L2563	V2499	L2563	V2499	W2434	F2371	V2304	ALA	Q2170	ALA	ALA
E2819	E2819	E2564	K2500	E2564	K2500	C2435	F2372	M2307	ASP	L2171	ASP	ASP
M2820	M2820	T2566	D2503	M2566	T2566	I2438	P2372	S2308	SER	T2097	SER	SER
D2821	D2821	S2567	R2504	D2567	R2504	L2439	L2374	F2309	LEU	A2098	LEU	LEU
F2822	F2822	N2568	V2505	F2568	V2505	M2442	A2375	V2310	THR	L2100	THR	THR
F2823	F2823	S2569	L2506	S2569	L2506	M2443	D2376	R2311	LEU	L2100	LEU	LEU
T2824	T2824	D2571	I2507	D2571	I2507	M2443	R2377	R2311	GLU	V2101	GLU	GLU
T2825	T2825	L2572	Q2508	L2572	Q2508	P2444	F2378	Y2312	GLU	K2102	GLU	GLU
K2829	K2829	P2573	G2509	P2573	G2509	K2445	M2379	K2313	MET	H2103	MET	MET
M2830	M2830	N2574	L2510	N2574	L2510	L2446	N2380	V2315	SER	H2105	SER	SER
M2831	M2831	M2575	I2511	M2575	I2511	K2447	A2381	Y2316	GLN	R2106	GLN	GLN
K2835	K2835	M2576	E2512	K2576	E2512	P2448	V2382	A2317	PHE	S2107	PHE	PHE
D2839	D2839	M2577	E2513	D2577	E2513	V2449	F2383	A2318	ASP	L1983	ASP	ASP
M2845	M2845	E2578	N2514	E2578	N2514	E2450	F2384	A2319	PHE	K1985	PHE	PHE
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L2846	L2846	Q2587	R2522	L2587	R2522	M2456	F2399	L2327	GLN	L2122	GLN	GLN
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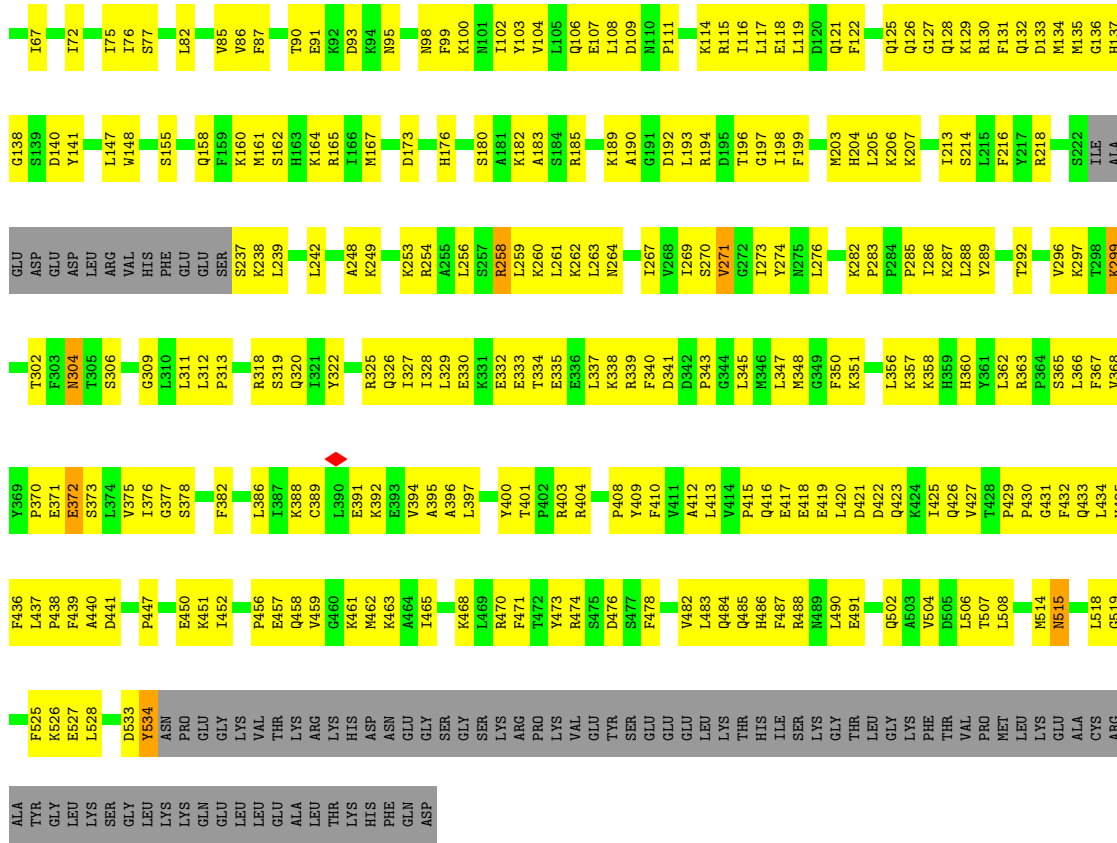


• Molecule 2: X-ray repair cross-complementing protein 6

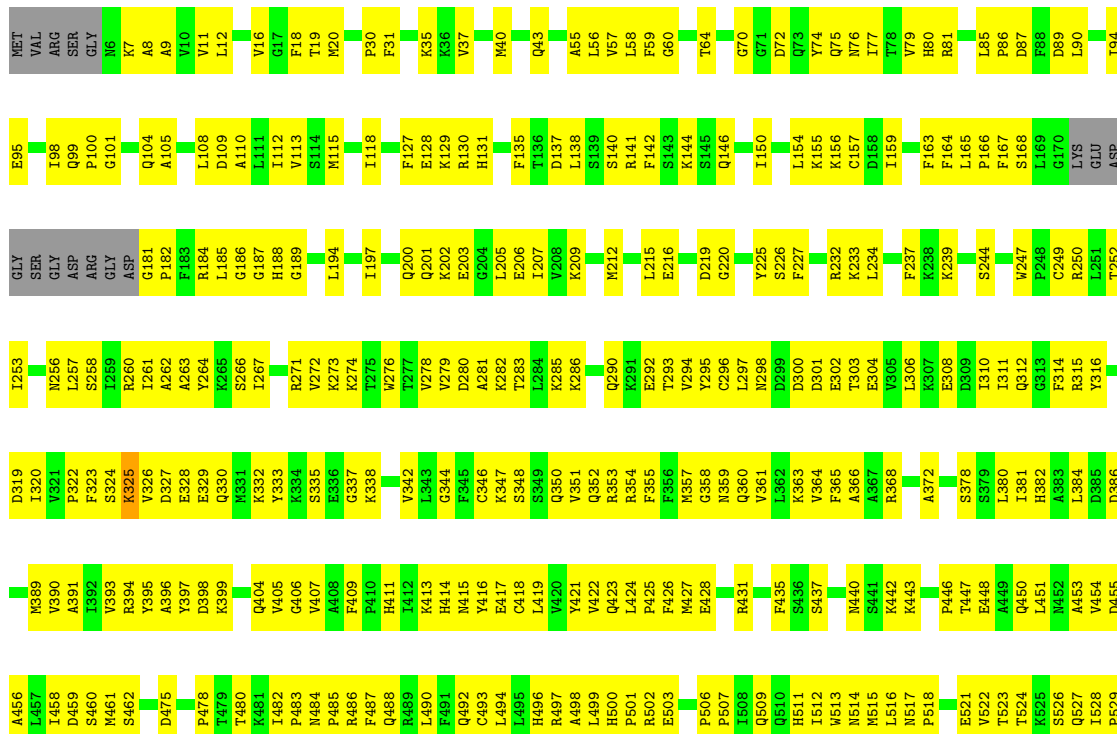


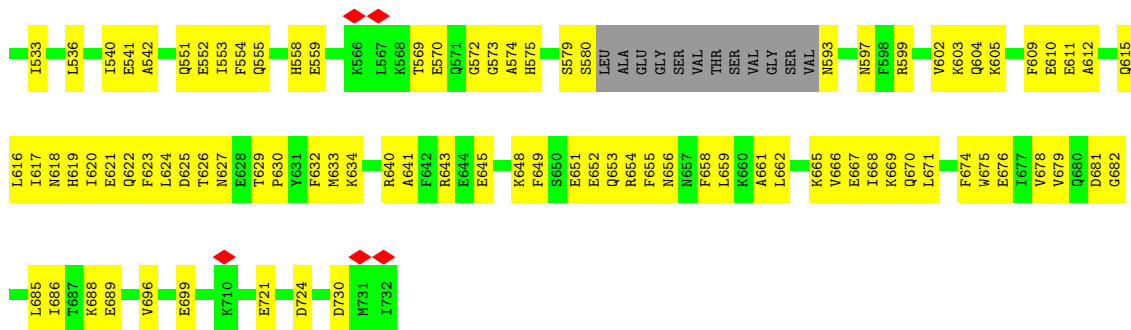
• Molecule 2: X-ray repair cross-complementing protein 6



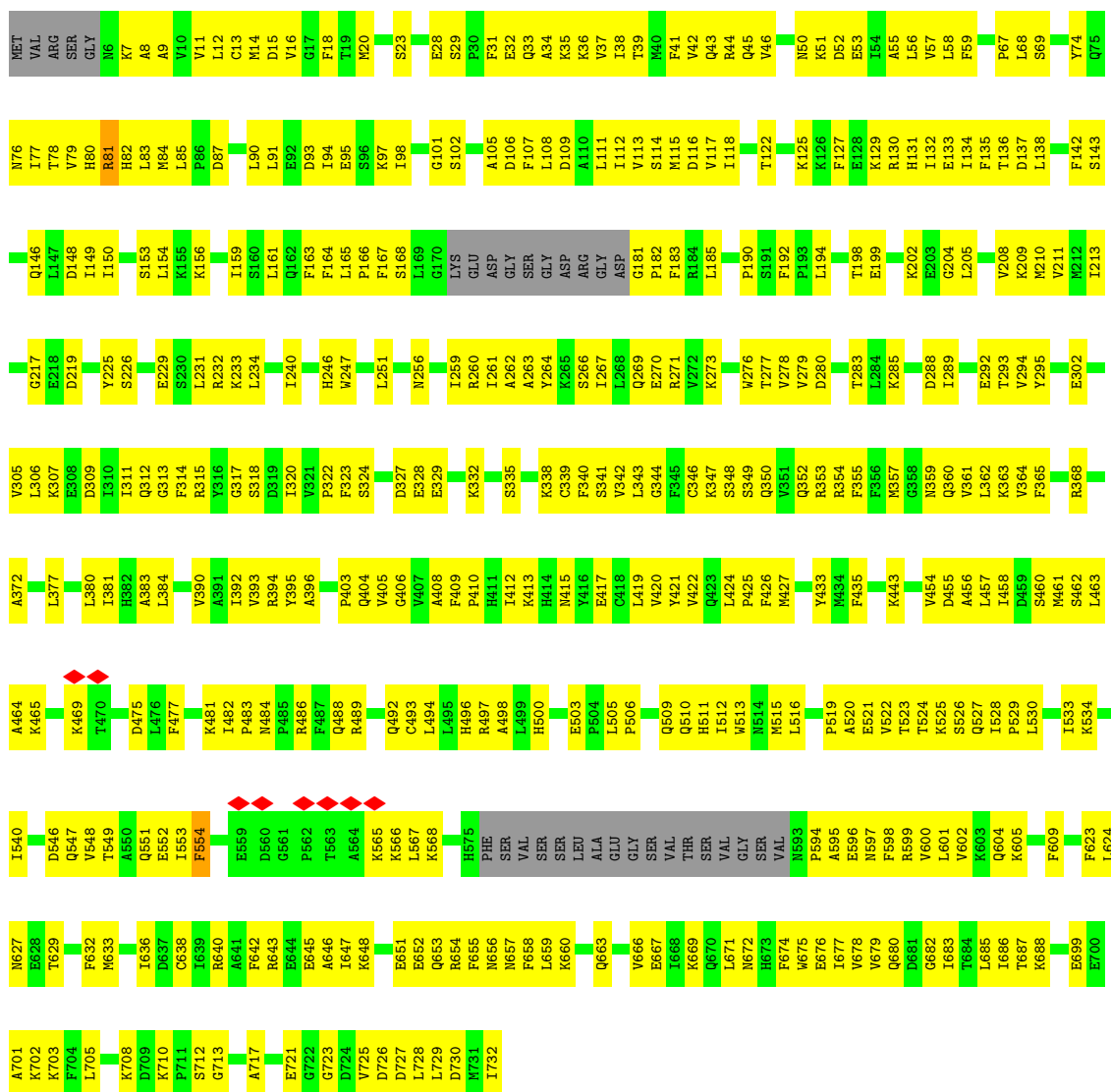


● Molecule 3: X-ray repair cross-complementing protein 5



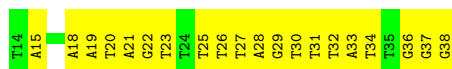


• Molecule 3: X-ray repair cross-complementing protein 5

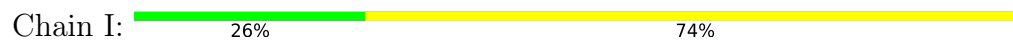


• Molecule 4: DNA (25-MER)





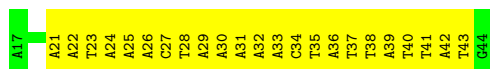
- Molecule 5: DNA (27-MER)



- Molecule 6: DNA (26-MER)



- Molecule 7: DNA (28-MER)



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	10808	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 ($e^-/\text{\AA}^2$)	52.97	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.469	Depositor
Minimum map value	-0.111	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.020	Depositor
Recommended contour level	0.085	Depositor
Map size (Å)	588.0, 588.0, 588.0	wwPDB
Map dimensions	560, 560, 560	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.35	0/29462	0.54	1/39939 (0.0%)
1	F	0.33	0/29464	0.51	2/39913 (0.0%)
2	B	0.33	0/3864	0.56	0/5226
2	G	0.31	0/3871	0.55	0/5236
3	C	0.30	0/5595	0.49	0/7557
3	H	0.29	0/5625	0.50	0/7589
4	J	0.68	0/570	1.01	0/876
5	I	0.77	0/620	0.97	0/953
6	D	0.82	0/591	0.99	0/908
7	E	0.80	0/644	0.95	0/990
All	All	0.35	0/80306	0.55	3/109187 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	2259	LYS	CB-CG-CD	5.69	126.38	111.60
1	F	1721	HIS	C-N-CA	-5.38	108.24	121.70
1	A	2939	LEU	CB-CG-CD2	-5.16	102.23	111.00

There are no chirality outliers.

There are no planarity outliers.

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	A	29018	0	28461	2369	0
1	F	29012	0	28652	2188	0
2	B	3789	0	3721	347	0
2	G	3797	0	3734	318	0
3	C	5490	0	5397	391	0
3	H	5517	0	5468	380	0
4	J	509	0	271	33	0
5	I	552	0	301	35	0
6	D	528	0	282	49	0
7	E	573	0	312	48	0
All	All	78785	0	76599	5907	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 38.

All (5907) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HB2	1:A:3478:GLU:CB	1.66	1.26
2:G:271:VAL:HG12	2:G:370:PRO:CA	1.72	1.20
1:A:446:PHE:H	1:A:447:PRO:CD	1.54	1.19
2:G:271:VAL:CG1	2:G:370:PRO:HA	1.72	1.17
2:G:273:ILE:CG1	2:G:368:VAL:HG22	1.75	1.13
1:F:3447:VAL:HG21	1:F:3478:GLU:O	1.51	1.10
2:G:273:ILE:HG13	2:G:368:VAL:HG22	1.10	1.10
1:A:1537:VAL:HG23	1:A:1553:PHE:O	1.53	1.07
2:B:271:VAL:HG12	2:B:370:PRO:HA	1.08	1.07
2:G:273:ILE:HG13	2:G:368:VAL:CG2	1.86	1.05
1:F:240:GLU:HG2	1:F:242:PRO:HD2	1.37	1.04
1:A:408:TYR:HD1	1:A:449:TYR:CZ	1.78	1.01
1:A:446:PHE:H	1:A:447:PRO:HD2	1.24	1.01
1:A:3315:TYR:HA	1:A:3318:LYS:HB3	1.45	0.98
3:H:671:LEU:HB2	3:H:674:PHE:HB3	1.46	0.97
1:A:1540:THR:HG1	1:A:1549:SER:N	1.61	0.97
2:G:271:VAL:HG12	2:G:370:PRO:HA	0.98	0.96
1:A:3514:VAL:O	1:A:3518:VAL:HG23	1.65	0.96
2:G:95:ASN:HD21	2:G:99:PHE:N	1.63	0.95
1:A:449:TYR:HD2	1:A:453:MET:CE	1.79	0.95
2:G:95:ASN:ND2	2:G:99:PHE:H	1.63	0.95
1:A:3026:ASP:HB2	1:A:3030:ILE:HD13	1.47	0.94
1:A:152:LEU:HA	1:A:155:LYS:HZ3	1.32	0.94
2:G:93:ASP:OD2	2:G:100:LYS:HA	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3008:TRP:HA	1:A:3011:LEU:HD13	1.46	0.93
1:A:449:TYR:HD2	1:A:453:MET:HE1	1.34	0.93
1:A:408:TYR:CD1	1:A:449:TYR:CZ	2.58	0.92
1:A:1400:VAL:HG11	1:A:1460:ARG:HG3	1.50	0.92
2:G:416:GLN:HB3	2:G:431:GLY:H	1.33	0.92
1:A:3163:THR:HG22	1:A:3167:ARG:HH12	1.32	0.92
1:A:3750:PHE:HA	1:A:3804:GLU:HA	1.53	0.91
1:A:3825:LYS:HA	1:A:3829:LEU:HB3	1.54	0.90
1:F:421:LEU:HD22	1:F:467:ALA:HB1	1.54	0.90
1:A:446:PHE:N	1:A:447:PRO:CD	2.33	0.90
6:D:28:DA:N1	7:E:28:DT:N3	2.20	0.89
1:A:483:VAL:HG21	1:A:568:PHE:HA	1.52	0.89
3:H:77:ILE:HD11	3:H:109:ASP:HB3	1.53	0.89
2:B:271:VAL:HG12	2:B:370:PRO:CA	1.99	0.89
1:A:2298:GLU:HA	1:A:2301:GLN:HG2	1.53	0.89
2:B:271:VAL:CG1	2:B:370:PRO:HA	2.00	0.89
1:A:793:LEU:HB3	1:A:870:LEU:HB3	1.54	0.89
6:D:32:DT:H3	7:E:24:DA:N6	1.70	0.89
1:A:1102:GLU:HA	1:A:1154:PRO:HB3	1.55	0.88
2:G:318:ARG:HB3	3:H:276:TRP:HB3	1.52	0.88
1:A:3361:GLU:HB2	1:A:3366:SER:HA	1.53	0.88
3:H:136:THR:HG22	3:H:138:LEU:H	1.36	0.88
1:A:3161:LEU:HA	1:A:3164:TRP:HE3	1.39	0.88
2:B:339:ARG:HG3	2:B:404:ARG:HG2	1.55	0.87
1:A:974:CYS:HA	1:A:1028:PHE:HE2	1.39	0.87
1:A:407:VAL:O	1:A:449:TYR:HE2	1.57	0.86
1:A:1092:GLU:HG3	1:A:1095:LEU:HB2	1.55	0.86
1:F:1827:LEU:HA	1:F:1830:HIS:HB3	1.57	0.86
1:F:2376:ASP:HA	1:F:2379:MET:HB2	1.58	0.86
1:F:2115:GLU:HA	1:F:2119:PRO:HA	1.57	0.86
4:J:22:DG:N1	5:I:34:DC:N3	2.24	0.86
1:A:4113:ASP:HB3	1:A:4116:ILE:HG22	1.58	0.85
1:A:656:GLN:HA	1:A:659:ARG:HB2	1.57	0.85
1:F:20:SER:HB2	1:F:69:VAL:HG11	1.57	0.85
1:F:1226:GLY:HA2	1:F:1231:GLN:HB2	1.56	0.85
2:B:416:GLN:HB3	2:B:431:GLY:H	1.41	0.85
1:A:386:VAL:HG12	1:A:390:GLN:HE22	1.41	0.85
6:D:33:DA:H2	7:E:24:DA:N1	1.75	0.85
1:F:326:MET:HA	1:F:329:LYS:HE2	1.57	0.84
1:A:1210:ASP:HA	1:A:1213:LYS:HD3	1.58	0.84
1:A:3072:GLU:HG3	1:A:3073:LEU:H	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:PHE:H	1:A:447:PRO:HD3	1.42	0.84
1:A:2534:ASN:HB3	1:A:2537:ASP:HB3	1.59	0.84
1:A:959:TYR:HA	1:A:962:TYR:HD2	1.40	0.83
1:A:2575:PRO:HB3	1:A:2784:GLN:HA	1.61	0.83
2:B:462:MET:HA	2:B:465:ILE:HG12	1.60	0.83
1:F:755:ALA:HB1	1:F:765:LEU:HD11	1.61	0.83
1:F:2851:PHE:HD2	1:F:2854:PHE:HB2	1.41	0.83
2:G:95:ASN:HD21	2:G:99:PHE:H	0.85	0.83
2:B:262:LYS:HE3	2:B:346:MET:HA	1.59	0.83
1:A:895:ALA:HA	1:A:904:VAL:HA	1.61	0.83
1:A:3451:LEU:HD13	1:A:3486:GLU:CB	2.07	0.82
6:D:33:DA:C2	7:E:24:DA:N1	2.47	0.82
1:A:2965:TYR:HB3	1:A:3001:CYS:HB2	1.60	0.82
1:F:925:GLN:HE22	1:F:2769:VAL:HA	1.44	0.82
3:H:56:LEU:HB3	3:H:81:ARG:HB3	1.61	0.82
1:A:408:TYR:CE1	1:A:449:TYR:CE1	2.68	0.82
1:F:3354:ASP:H	1:F:3357:ARG:HH21	1.24	0.82
1:A:1686:LEU:HA	1:A:1689:LYS:HE2	1.61	0.82
1:F:3630:ARG:HH21	1:F:3634:GLN:HB3	1.45	0.81
1:F:3710:LYS:NZ	1:F:3711:PRO:O	2.13	0.81
2:G:302:THR:HG21	2:G:311:LEU:HD23	1.61	0.81
1:A:2158:ARG:HH22	1:A:2196:TRP:HB3	1.46	0.81
1:A:3842:TRP:HA	1:A:3845:LYS:HE2	1.60	0.81
7:E:41:DT:H2''	7:E:42:DA:N7	1.95	0.81
2:B:95:ASN:HD22	2:B:102:ILE:HG21	1.45	0.81
1:F:1096:VAL:HG23	1:F:1141:LYS:HZ3	1.44	0.81
1:A:888:ARG:HE	1:A:3889:ARG:HG3	1.44	0.81
2:B:374:LEU:HB2	3:C:542:ALA:HB3	1.63	0.81
1:F:339:GLN:HE22	3:H:565:LYS:H	1.27	0.81
1:F:793:LEU:HD22	1:F:869:ASN:HB2	1.61	0.81
1:A:175:TYR:HB3	1:A:227:LEU:HD12	1.62	0.80
1:A:449:TYR:CD2	1:A:453:MET:CE	2.63	0.80
1:A:2945:SER:HB2	1:A:3975:LYS:HE3	1.62	0.80
1:A:736:LEU:HB3	1:A:740:ILE:HD11	1.64	0.80
1:A:3807:GLU:OE2	1:A:3808:ASN:ND2	2.14	0.80
1:F:2466:SER:HG	1:F:2469:CYS:HG	1.18	0.80
1:F:722:LYS:HA	1:F:726:LEU:HD23	1.64	0.80
2:B:304:ASN:HB3	2:B:311:LEU:HD21	1.63	0.80
3:H:46:VAL:HG11	3:H:91:LEU:HD11	1.62	0.80
1:A:1242:LEU:HD22	1:A:1311:LYS:HB2	1.63	0.80
1:F:145:ASP:HA	1:F:148:LYS:HE2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3414:MET:SD	1:F:3464:LYS:NZ	2.54	0.80
1:F:3882:LEU:HA	1:F:3885:ARG:HE	1.46	0.79
2:G:38:LEU:HD11	2:G:167:MET:HG2	1.62	0.79
2:G:271:VAL:HA	2:G:371:GLU:H	1.47	0.79
1:A:79:ARG:HH21	1:A:124:LYS:H	1.30	0.79
1:A:3884:LYS:HE2	1:A:3970:LEU:HD23	1.64	0.79
1:F:13:LEU:HD22	1:F:59:PHE:HD1	1.47	0.79
1:A:1537:VAL:CG2	1:A:1553:PHE:O	2.29	0.79
1:A:2525:TRP:HB3	1:A:2561:PHE:HZ	1.46	0.79
1:F:2938:VAL:HG13	1:F:3979:LEU:HD21	1.63	0.79
3:H:552:GLU:HG3	3:H:553:ILE:H	1.47	0.79
1:F:1755:SER:OG	1:F:1757:MET:SD	2.40	0.79
1:A:892:LEU:HG	1:A:907:LEU:HD21	1.65	0.78
1:A:1958:GLU:HG3	1:A:1960:LYS:H	1.49	0.78
1:F:1915:LEU:HA	1:F:1918:LEU:HB2	1.64	0.78
2:G:386:LEU:HD13	2:G:430:PRO:HB2	1.63	0.78
1:F:1071:ASN:HB3	1:F:1074:LYS:HG2	1.64	0.78
1:F:1448:LEU:HD11	1:F:1514:LEU:HD21	1.66	0.78
3:C:365:PHE:HB2	3:C:368:ARG:HH12	1.47	0.78
1:A:2938:VAL:O	1:A:2942:ILE:HG22	1.83	0.78
2:B:84:ALA:HB2	2:B:108:LEU:HA	1.66	0.78
1:A:2540:LEU:HD13	1:A:2543:ASN:HD22	1.49	0.78
1:F:1742:CYS:HA	1:F:1745:LYS:HE2	1.66	0.78
1:F:2526:SER:HA	1:F:2531:LEU:HD12	1.66	0.78
1:A:393:LYS:HB2	1:A:397:LEU:HD23	1.64	0.78
1:F:3040:TYR:HA	1:F:3043:TYR:HD2	1.49	0.78
1:F:3822:GLN:HA	1:F:3825:LYS:HE2	1.66	0.77
1:A:637:LYS:NZ	1:A:638:GLN:O	2.17	0.77
1:F:3958:LEU:HD21	1:F:4081:ALA:HA	1.65	0.77
2:G:302:THR:CG2	2:G:311:LEU:HD23	2.13	0.77
1:A:2133:LEU:HD11	1:A:2171:LEU:HD21	1.66	0.77
1:F:1367:HIS:NE2	1:F:1371:VAL:HG11	2.00	0.77
1:A:741:ILE:HA	1:A:748:TYR:HE2	1.49	0.77
1:A:3379:GLN:HA	1:A:3382:PHE:HB2	1.64	0.77
1:F:2916:LEU:HD21	1:F:2987:THR:HG21	1.65	0.77
1:A:1630:ASP:HA	1:A:1633:TRP:HE1	1.50	0.76
1:F:3467:ARG:HH22	1:F:3471:ILE:HD12	1.50	0.76
1:F:2133:LEU:HD21	1:F:2171:LEU:HD13	1.67	0.76
2:B:421:ASP:HB2	2:B:425:ILE:HB	1.68	0.76
1:A:235:THR:HG23	1:A:236:LYS:HG2	1.67	0.76
1:A:3603:LYS:HE3	1:A:3652:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1759:LEU:HD13	1:F:1797:LEU:HD12	1.67	0.76
1:A:2254:ARG:HH12	1:A:2294:ILE:HG12	1.51	0.76
1:F:352:VAL:HG23	1:F:353:ASP:H	1.51	0.76
1:F:1743:MET:HA	1:F:1746:PHE:HD2	1.50	0.76
1:F:2328:ARG:HD2	1:F:2333:ARG:HD3	1.67	0.76
1:A:3357:ARG:HG3	1:A:3360:LEU:HD12	1.67	0.76
1:F:1208:LEU:HG	1:F:1212:LEU:HD23	1.67	0.76
1:F:2103:HIS:HA	1:F:2106:ARG:HB2	1.67	0.76
1:A:408:TYR:CD1	1:A:449:TYR:CE1	2.73	0.76
2:B:85:VAL:H	2:B:106:GLN:HB2	1.50	0.76
1:F:667:TYR:HB2	1:F:728:SER:HB2	1.64	0.76
1:F:959:TYR:HB2	1:F:1004:GLN:HE22	1.50	0.76
3:H:56:LEU:HG	3:H:80:HIS:HB3	1.67	0.76
1:F:877:ASP:HA	1:F:880:MET:HB2	1.68	0.75
1:A:2376:ASP:OD1	1:A:2377:ARG:NH1	2.19	0.75
1:A:3930:VAL:HG22	1:A:3937:VAL:HG12	1.66	0.75
1:F:2506:LEU:HB3	1:F:2525:TRP:HH2	1.51	0.75
3:H:484:ASN:HB3	3:H:486:ARG:HG2	1.67	0.75
1:A:1271:ILE:HD13	1:A:1278:ALA:H	1.51	0.75
1:F:1786:ALA:H	1:F:1830:HIS:CE1	2.03	0.75
1:F:3164:TRP:HB3	1:F:3186:ARG:HH21	1.50	0.75
1:A:472:GLY:HA2	1:A:475:LEU:HB2	1.68	0.75
1:A:585:ILE:HG23	1:A:611:ASN:HB3	1.66	0.75
1:A:2500:LYS:HA	1:A:2503:LYS:HE2	1.67	0.75
1:F:3969:ASN:HD22	1:F:3972:LEU:HD21	1.51	0.75
1:F:474:VAL:HA	1:F:477:ASN:HD21	1.50	0.75
2:B:271:VAL:HA	2:B:371:GLU:H	1.51	0.75
1:F:3187:CYS:HA	1:F:3190:LEU:HD12	1.67	0.75
2:G:320:GLN:HB2	2:G:327:ILE:HB	1.67	0.75
3:C:11:VAL:HG23	3:C:55:ALA:HB3	1.67	0.75
2:B:485:GLN:HE22	2:B:502:GLN:HA	1.52	0.75
1:F:3026:ASP:O	1:F:3031:TRP:NE1	2.20	0.75
2:G:421:ASP:HB2	2:G:425:ILE:HB	1.68	0.75
1:F:71:LYS:HG3	1:F:73:LEU:HD22	1.69	0.74
1:A:850:GLU:HA	1:A:853:ILE:HD12	1.66	0.74
1:F:10:CYS:SG	1:F:11:SER:N	2.59	0.74
1:F:3352:GLU:O	1:F:3357:ARG:NH2	2.20	0.74
1:F:3980:MET:HA	1:F:3983:ILE:HG22	1.69	0.74
2:G:128:GLN:OE1	2:G:132:GLN:NE2	2.20	0.74
1:A:585:ILE:HG22	1:A:586:GLN:HG3	1.69	0.74
1:A:2157:PHE:HB2	1:A:2160:TYR:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3589:SER:HB2	1:A:3593:ARG:HH12	1.52	0.74
1:F:36:ARG:NE	1:F:36:ARG:HA	2.01	0.74
1:A:1357:LYS:O	1:A:1361:LYS:NZ	2.21	0.74
1:A:3375:ALA:O	1:A:3379:GLN:NE2	2.20	0.74
3:C:342:VAL:HA	3:C:393:VAL:HA	1.67	0.74
1:F:2341:LEU:HD23	1:F:2344:LEU:HD12	1.70	0.74
1:F:3031:TRP:HB3	1:F:3041:LEU:HD11	1.70	0.74
1:F:708:VAL:HG12	1:F:712:LYS:HZ1	1.53	0.74
1:F:1848:ILE:O	1:F:1852:LYS:NZ	2.20	0.74
1:F:2346:ALA:O	1:F:2350:LYS:NZ	2.21	0.74
2:B:140:ASP:OD1	2:B:141:TYR:N	2.20	0.74
3:C:688:LYS:HB3	3:C:696:VAL:HB	1.69	0.74
1:A:1071:ASN:HB3	1:A:1074:LYS:HD3	1.69	0.74
1:A:3462:ARG:HH12	1:A:3708:ARG:HA	1.52	0.74
1:A:3869:THR:HG22	1:A:3872:ARG:HH12	1.53	0.74
2:B:363:ARG:NH2	3:C:359:ASN:O	2.21	0.74
1:F:738:HIS:HA	1:F:776:TRP:CD1	2.23	0.74
3:H:679:VAL:HG21	3:H:705:LEU:HD11	1.70	0.74
3:C:72:ASP:HA	3:C:75:GLN:HE21	1.52	0.74
1:F:1625:HIS:HA	1:F:1628:LYS:HZ3	1.52	0.74
1:F:2430:GLU:HA	1:F:2433:LYS:HE2	1.70	0.74
1:F:4045:CYS:HA	1:F:4048:LYS:HE2	1.68	0.74
1:A:240:GLU:HG2	1:A:242:PRO:HD2	1.70	0.73
2:B:170:THR:HG22	2:B:202:LEU:HD11	1.70	0.73
1:F:3046:ARG:HG2	1:F:3050:LYS:HZ2	1.52	0.73
2:G:339:ARG:HG3	2:G:404:ARG:HG3	1.70	0.73
1:A:3161:LEU:HA	1:A:3164:TRP:CE3	2.23	0.73
1:F:339:GLN:NE2	3:H:566:LYS:H	1.85	0.73
1:F:3095:ASP:HB3	1:F:3098:ARG:HH12	1.52	0.73
3:H:115:MET:HG2	3:H:153:SER:HB3	1.69	0.73
1:A:1840:PHE:HE2	1:A:1898:GLN:HB2	1.53	0.73
3:C:186:GLY:HA3	3:C:232:ARG:HG3	1.69	0.73
1:A:407:VAL:HB	1:A:449:TYR:OH	1.88	0.73
1:A:1392:MET:HA	1:A:1395:LEU:HG	1.70	0.73
2:B:376:ILE:HB	3:C:540:ILE:HG13	1.70	0.73
2:B:528:LEU:HD21	3:C:372:ALA:HB1	1.70	0.73
1:F:70:ARG:HE	1:F:82:ARG:HG3	1.52	0.73
1:F:1331:ASN:HA	1:F:1334:LYS:HZ3	1.51	0.73
1:A:81:CYS:HB2	1:A:82:ARG:HH11	1.53	0.73
1:A:370:ALA:HB2	1:A:420:VAL:HG12	1.69	0.73
1:F:1371:VAL:HA	1:F:1374:GLN:OE1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3052:LEU:HA	1:F:3056:GLU:HB3	1.71	0.73
3:H:168:SER:H	3:H:192:PHE:HB2	1.52	0.73
1:A:1708:GLU:HB2	1:A:1712:ARG:HH12	1.51	0.73
1:A:3982:SER:O	1:A:3986:HIS:ND1	2.21	0.73
2:B:320:GLN:HB2	2:B:327:ILE:HB	1.69	0.73
2:B:358:LYS:HB3	3:C:409:PHE:HE2	1.53	0.73
1:A:82:ARG:H	1:A:82:ARG:HD2	1.54	0.73
2:B:470:ARG:HE	3:C:346:CYS:HA	1.54	0.73
1:F:2389:PHE:HB2	1:F:2394:LYS:HD3	1.70	0.73
2:G:128:GLN:O	2:G:132:GLN:NE2	2.21	0.73
1:A:3953:LEU:HD11	1:A:4027:TRP:HB2	1.69	0.73
2:B:484:GLN:HE22	2:B:485:GLN:HE21	1.34	0.73
1:F:1528:LEU:HD13	1:F:1531:LEU:HD12	1.71	0.73
4:J:36:DG:H2''	4:J:37:DG:H5''	1.70	0.73
1:A:180:LEU:HA	1:A:230:LEU:HD22	1.70	0.73
1:A:3282:ARG:HH12	1:A:3329:LEU:HD23	1.51	0.73
1:F:623:PHE:HE2	1:F:663:ILE:HG21	1.54	0.73
1:F:1743:MET:HA	1:F:1746:PHE:CD2	2.24	0.73
6:D:25:DT:H2''	6:D:26:DT:H5''	1.69	0.73
1:A:1391:VAL:HA	1:A:1394:HIS:HB3	1.69	0.72
1:A:2383:PHE:HA	1:A:2386:LEU:HD23	1.71	0.72
1:F:1795:VAL:HG13	1:F:1839:PHE:HB2	1.70	0.72
2:B:114:LYS:HA	2:B:117:LEU:HD12	1.68	0.72
1:F:3602:ASN:ND2	1:F:3651:LEU:O	2.22	0.72
1:A:19:LEU:HD12	1:A:34:LEU:HD23	1.70	0.72
1:A:1145:LEU:HB3	1:A:1165:LEU:HD21	1.71	0.72
2:B:343:PRO:HG3	2:B:403:ARG:HA	1.69	0.72
1:F:66:LEU:HD12	1:F:69:VAL:HB	1.70	0.72
1:F:864:GLY:HA3	1:F:3169:PRO:HA	1.70	0.72
3:H:280:ASP:HB2	3:H:283:THR:HG22	1.70	0.72
3:H:546:ASP:OD1	3:H:547:GLN:N	2.22	0.72
1:A:656:GLN:OE1	1:A:656:GLN:N	2.20	0.72
1:A:1153:LEU:HD11	1:A:1157:PHE:HB2	1.71	0.72
3:C:656:ASN:HA	3:C:659:LEU:HD12	1.71	0.72
1:F:1164:CYS:SG	1:F:1165:LEU:N	2.59	0.72
1:F:1653:LEU:HD21	1:F:1698:PHE:HB2	1.71	0.72
1:F:3588:TRP:HB2	1:F:3612:ARG:HH12	1.55	0.72
1:F:3812:LEU:HD22	1:F:3925:LEU:HD21	1.72	0.72
1:F:2257:PHE:HA	1:F:2260:PHE:CE2	2.24	0.72
1:A:4083:GLY:HA3	1:A:4088:ASN:HD22	1.54	0.72
1:F:1039:TRP:CD1	1:F:1042:LYS:HE3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:LEU:O	1:A:442:GLN:NE2	2.23	0.72
1:A:3163:THR:HG22	1:A:3167:ARG:NH1	2.04	0.72
1:A:3554:PHE:HA	1:A:3557:ARG:HB3	1.72	0.72
1:F:2312:TYR:HD2	1:F:2315:VAL:HG23	1.55	0.72
1:F:3856:MET:SD	1:F:4077:TYR:OH	2.45	0.72
2:G:273:ILE:CG1	2:G:368:VAL:CG2	2.58	0.72
6:D:21:DA:N1	7:E:37:DT:N3	2.37	0.72
1:A:2205:VAL:HG13	1:A:2208:ASP:H	1.54	0.71
2:B:353:LEU:HB2	2:B:393:GLU:HG3	1.71	0.71
1:F:493:LYS:O	1:F:625:ASN:ND2	2.23	0.71
4:J:29:DG:H2''	4:J:30:DT:H5''	1.72	0.71
1:A:968:VAL:HA	1:A:971:ARG:HD3	1.71	0.71
1:A:1540:THR:OG1	1:A:1549:SER:N	2.22	0.71
1:A:2380:ASN:OD1	1:A:2381:ALA:N	2.22	0.71
1:A:4116:ILE:HA	1:A:4119:ARG:HB2	1.72	0.71
1:F:1374:GLN:O	1:F:1378:GLU:N	2.23	0.71
1:A:898:PHE:CE2	1:A:903:PRO:HD2	2.24	0.71
1:A:2810:SER:HA	1:A:2861:ILE:HD11	1.72	0.71
1:A:3629:ARG:HD2	1:A:3632:PHE:HD2	1.55	0.71
3:C:297:LEU:HB2	3:C:303:THR:HB	1.72	0.71
3:C:453:ALA:HB1	3:C:533:ILE:HG23	1.71	0.71
3:C:605:LYS:NZ	3:C:611:GLU:O	2.23	0.71
1:F:338:LEU:HD12	3:H:567:LEU:HB3	1.72	0.71
3:H:108:LEU:HA	3:H:111:LEU:HD12	1.72	0.71
1:A:1028:PHE:HA	1:A:1031:ARG:HD2	1.72	0.71
1:A:3471:ILE:HD13	1:A:3474:ARG:HD3	1.72	0.71
2:B:461:LYS:HD2	2:B:527:GLU:HB2	1.71	0.71
1:F:2414:GLN:HG3	2:G:148:TRP:HZ2	1.55	0.71
1:F:3507:ASP:HA	1:F:3540:TYR:HA	1.71	0.71
4:J:15:DA:H5'	5:I:42:DA:H2	1.54	0.71
1:F:188:GLU:O	1:F:192:ASN:ND2	2.22	0.71
1:F:3620:PRO:HB3	1:F:3630:ARG:HH12	1.55	0.71
1:A:2139:PRO:HD2	1:A:2142:ILE:HD12	1.71	0.71
1:A:3326:GLN:OE1	1:A:3326:GLN:N	2.23	0.71
2:G:528:LEU:HD21	3:H:372:ALA:HB1	1.72	0.71
3:C:381:ILE:HD13	3:C:417:GLU:HB2	1.70	0.71
1:F:888:ARG:O	1:F:3889:ARG:NH1	2.20	0.71
3:H:154:LEU:HD13	3:H:161:LEU:HD11	1.71	0.71
1:A:1202:ARG:NH2	1:A:1207:TRP:O	2.24	0.71
1:A:3593:ARG:NH2	1:A:3663:THR:OG1	2.23	0.71
1:A:3810:VAL:O	1:A:3930:VAL:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:MET:HA	1:A:211:ALA:HB3	1.73	0.71
1:A:208:MET:HE3	3:C:551:GLN:HB2	1.72	0.71
1:A:251:PHE:HZ	1:A:285:CYS:HB3	1.56	0.71
1:F:3746:ARG:NH1	1:F:3746:ARG:HA	2.04	0.71
2:G:82:LEU:HD21	2:G:108:LEU:HB3	1.71	0.71
1:A:1452:VAL:HA	1:A:1517:LEU:HD11	1.73	0.71
2:G:474:ARG:HE	2:G:476:ASP:H	1.39	0.71
1:A:336:ASN:OD1	1:A:337:LYS:N	2.24	0.70
2:B:45:SER:HA	2:B:138:GLY:HA2	1.71	0.70
2:B:194:ARG:HH12	2:B:199:PHE:HA	1.54	0.70
1:F:1695:LEU:HB3	1:F:1699:PHE:HE2	1.56	0.70
1:F:3154:GLN:HA	1:F:3157:LEU:HD13	1.73	0.70
1:A:75:SER:O	1:A:79:ARG:N	2.21	0.70
1:A:1205:ASN:OD1	1:A:1206:LEU:N	2.24	0.70
1:A:2421:VAL:HG23	1:A:2457:PRO:HG3	1.72	0.70
1:A:2574:ASN:O	1:A:2787:HIS:N	2.24	0.70
1:A:3765:GLU:O	1:A:3769:GLN:NE2	2.24	0.70
1:F:1735:ARG:NH1	1:F:1736:PHE:HB2	2.06	0.70
3:H:81:ARG:HH12	3:H:84:MET:HB2	1.54	0.70
1:A:529:ASP:OD1	1:A:530:LEU:N	2.25	0.70
1:A:531:PHE:HD2	1:A:633:ILE:HG21	1.56	0.70
1:A:1069:HIS:HB3	1:A:1074:LYS:HG2	1.72	0.70
1:A:2115:GLU:HB3	1:A:2118:VAL:HA	1.74	0.70
2:B:363:ARG:HB2	2:B:436:PHE:HE2	1.56	0.70
1:F:2140:LEU:HA	1:F:2143:ARG:HE	1.57	0.70
3:H:131:HIS:ND1	3:H:133:GLU:OE2	2.23	0.70
1:A:1831:CYS:O	1:A:1883:ARG:NH2	2.24	0.70
1:A:2443:MET:HE2	1:A:2479:TRP:CE3	2.27	0.70
2:B:193:LEU:HB2	2:B:198:ILE:HD13	1.73	0.70
1:F:410:MET:HA	1:F:413:PHE:HD2	1.56	0.70
1:F:2344:LEU:HA	1:F:2347:LYS:HE2	1.72	0.70
1:F:2919:ASP:OD1	1:F:2922:ARG:NH1	2.25	0.70
1:A:891:ARG:NH2	1:A:958:MET:SD	2.64	0.70
2:B:351:LYS:O	2:B:395:ALA:N	2.24	0.70
2:B:368:VAL:HB	2:B:432:PHE:HB2	1.74	0.70
1:F:1689:LYS:HG2	1:F:1717:LEU:HD21	1.73	0.70
1:F:2931:ARG:HB3	1:F:2939:LEU:HD21	1.72	0.70
3:H:9:ALA:HB3	3:H:130:ARG:HA	1.74	0.70
1:A:1775:GLU:O	1:A:1778:PHE:N	2.24	0.70
1:A:3751:LEU:N	1:A:3803:ILE:O	2.24	0.70
3:C:353:ARG:NH1	3:C:353:ARG:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3615:ALA:HA	1:F:3619:ASP:HB2	1.73	0.70
1:A:2481:HIS:O	1:A:2485:ARG:N	2.25	0.70
1:A:3099:ALA:HA	1:A:3102:TYR:CD2	2.27	0.70
1:F:3078:LEU:HD12	1:F:3082:TYR:HB2	1.73	0.70
1:F:3740:ILE:HB	1:F:3748:HIS:HB2	1.72	0.70
1:F:3781:CYS:O	1:F:3785:ALA:N	2.25	0.70
1:F:3085:GLU:OE1	1:F:3085:GLU:N	2.21	0.70
3:H:271:ARG:HH11	3:H:486:ARG:HH22	1.38	0.70
1:A:1406:LEU:HD22	1:A:1415:LEU:HD13	1.73	0.70
1:F:1626:TRP:HE1	1:F:1627:LYS:HZ3	1.39	0.70
1:A:173:LYS:HG3	1:A:176:GLU:HG3	1.74	0.70
1:A:408:TYR:HE1	1:A:449:TYR:CE1	2.09	0.70
1:A:637:LYS:NZ	1:A:640:GLU:OE1	2.23	0.70
1:A:3633:ILE:O	1:A:3637:GLY:N	2.22	0.70
1:A:3762:GLN:O	1:A:3765:GLU:HG2	1.92	0.70
1:F:2537:ASP:HA	1:F:2540:LEU:HD12	1.74	0.70
1:F:3580:ASN:HD21	1:F:3677:PRO:HD3	1.55	0.70
1:A:70:ARG:HH12	1:A:72:SER:HA	1.56	0.69
1:A:2918:PRO:HB2	1:A:2922:ARG:HH22	1.57	0.69
1:A:3319:ASN:O	1:A:3322:ALA:N	2.21	0.69
1:F:3973:PRO:O	1:F:3975:LYS:NZ	2.21	0.69
1:A:289:ASN:OD1	1:A:293:LEU:N	2.25	0.69
1:A:1085:ILE:HG22	1:A:1089:PHE:HB2	1.73	0.69
1:A:2122:LEU:HA	1:A:2126:MET:HE3	1.74	0.69
1:A:2357:GLU:O	1:A:2361:ILE:HD12	1.92	0.69
2:B:278:GLN:OE1	3:C:431:ARG:NH1	2.24	0.69
1:F:76:ILE:O	1:F:80:GLU:HG3	1.93	0.69
1:F:332:GLU:HG2	1:F:334:HIS:H	1.57	0.69
1:F:2806:LYS:HB2	1:F:2857:CYS:HB2	1.74	0.69
1:F:2935:GLU:OE1	1:F:2935:GLU:N	2.25	0.69
2:G:269:ILE:HA	2:G:375:VAL:HG11	1.75	0.69
1:A:2220:MET:O	1:A:2259:LYS:NZ	2.23	0.69
3:C:184:ARG:NH2	3:C:518:PRO:O	2.26	0.69
1:F:630:CYS:SG	1:F:631:ARG:N	2.65	0.69
1:F:1327:GLY:O	1:F:1331:ASN:N	2.23	0.69
1:F:1602:ASP:OD1	1:F:1603:GLN:N	2.25	0.69
1:F:1854:ARG:HB3	1:F:1863:PHE:HE1	1.55	0.69
1:F:3855:TYR:HA	1:F:3858:MET:HE2	1.73	0.69
1:F:115:TYR:HE1	1:F:127:ALA:HA	1.57	0.69
1:A:2514:ASN:HB3	1:A:2517:LEU:HG	1.73	0.69
2:B:318:ARG:HB3	3:C:276:TRP:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3813:LYS:HD3	1:F:3925:LEU:HD22	1.74	0.69
1:A:776:TRP:O	1:A:780:ILE:N	2.24	0.69
2:B:482:VAL:HG22	3:C:333:TYR:HD1	1.56	0.69
1:F:125:ILE:HA	1:F:128:LEU:HD13	1.74	0.69
1:F:2965:TYR:HB3	1:F:3001:CYS:HB2	1.74	0.69
1:F:3182:ILE:HG13	1:F:3183:ILE:HD12	1.75	0.69
1:A:1946:ASN:HA	1:A:1949:ILE:HD12	1.74	0.69
2:B:350:PHE:CD2	3:C:458:ILE:HA	2.28	0.69
1:F:87:LYS:HE2	1:F:830:VAL:HA	1.74	0.69
2:G:45:SER:HA	2:G:138:GLY:HA2	1.75	0.69
7:E:38:DT:H2''	7:E:39:DA:N7	2.08	0.69
1:A:256:ILE:HD11	3:C:551:GLN:HB3	1.74	0.69
1:A:407:VAL:HA	1:A:410:MET:HG2	1.73	0.69
1:A:2228:ARG:O	1:A:2232:ARG:N	2.22	0.69
1:A:2295:GLN:NE2	1:A:2297:SER:OG	2.21	0.69
1:A:2908:LYS:NZ	1:A:2911:ARG:O	2.25	0.69
1:F:1365:ASN:OD1	1:F:1370:ARG:NH2	2.26	0.69
1:F:2376:ASP:H	1:F:2404:ARG:NH2	1.91	0.69
1:F:3965:ARG:O	1:F:3969:ASN:N	2.25	0.69
2:G:32:TYR:N	2:G:253:LYS:O	2.24	0.69
2:G:40:PHE:HB2	2:G:85:VAL:HG12	1.72	0.69
2:G:412:ALA:O	2:G:435:VAL:N	2.25	0.69
3:H:674:PHE:HB2	3:H:675:TRP:CE3	2.28	0.69
1:A:3471:ILE:HA	1:A:3474:ARG:HG2	1.75	0.69
2:B:482:VAL:HG22	3:C:333:TYR:CD1	2.27	0.69
3:C:352:GLN:HG3	3:C:354:ARG:H	1.57	0.69
1:F:3037:GLN:HA	1:F:3040:TYR:HD2	1.56	0.69
3:H:247:TRP:HB3	3:H:263:ALA:HB3	1.72	0.69
1:A:2173:ALA:HA	1:A:2215:LEU:HD21	1.72	0.69
1:A:2940:ARG:HB3	1:A:2957:LEU:HD11	1.73	0.69
3:C:154:LEU:HD13	3:C:215:LEU:HB2	1.75	0.69
3:C:155:LYS:HE3	3:C:156:LYS:HE3	1.73	0.69
1:F:1298:LEU:HD23	1:F:1367:HIS:HD2	1.57	0.69
1:F:3859:TYR:O	1:F:4119:ARG:NH2	2.26	0.69
2:G:328:ILE:HD12	3:H:279:VAL:HG21	1.75	0.69
1:A:750:PRO:HA	1:A:753:GLN:HB2	1.74	0.68
1:A:3543:LYS:HB3	1:A:3548:GLY:HA3	1.75	0.68
1:F:2414:GLN:OE1	1:F:2414:GLN:N	2.20	0.68
1:F:2587:GLN:N	1:F:2777:HIS:O	2.22	0.68
1:A:878:GLU:O	1:A:882:SER:N	2.26	0.68
1:A:1112:ALA:O	1:A:1115:HIS:ND1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2329:TYR:CE1	1:A:2332:GLU:HA	2.29	0.68
2:G:288:LEU:N	3:H:311:ILE:O	2.27	0.68
2:G:358:LYS:HE2	3:H:353:ARG:HH22	1.57	0.68
1:A:2430:GLU:HA	1:A:2433:LYS:HE3	1.75	0.68
1:A:2510:LEU:O	1:A:2518:GLN:NE2	2.26	0.68
3:C:456:ALA:HB3	3:C:533:ILE:HD11	1.74	0.68
1:F:1366:THR:O	1:F:1370:ARG:NH1	2.23	0.68
1:F:2555:LEU:HD21	1:F:2806:LYS:HB3	1.75	0.68
1:F:3722:PHE:HE1	1:F:3740:ILE:HG13	1.57	0.68
1:F:3750:PHE:HA	1:F:3805:TRP:H	1.58	0.68
3:H:165:LEU:H	3:H:226:SER:HA	1.57	0.68
3:H:717:ALA:HB3	3:H:723:GLY:HA2	1.75	0.68
1:F:3846:MET:HB2	1:F:3858:MET:HG3	1.74	0.68
3:H:653:GLN:OE1	3:H:657:ASN:ND2	2.26	0.68
1:A:99:LYS:NZ	1:A:141:SER:O	2.23	0.68
1:A:197:PHE:HE1	1:A:231:LEU:HD22	1.58	0.68
1:A:1215:GLU:O	1:A:1219:PHE:N	2.27	0.68
1:A:1496:GLU:OE1	1:A:1498:GLN:NE2	2.27	0.68
1:A:1756:PRO:HA	1:A:1759:LEU:HB3	1.75	0.68
3:C:57:VAL:HG12	3:C:79:VAL:HG12	1.76	0.68
3:C:197:ILE:HD12	3:C:201:GLN:HB2	1.76	0.68
3:C:618:ASN:OD1	3:C:619:HIS:ND1	2.25	0.68
5:I:41:DT:H2 [?]	5:I:42:DA:C8	2.29	0.68
1:A:628:GLU:O	1:A:631:ARG:HG3	1.94	0.68
1:A:2184:TYR:O	1:A:2187:VAL:N	2.26	0.68
1:A:2920:VAL:HA	1:A:2923:TRP:HB2	1.74	0.68
1:A:3101:TYR:HA	1:A:3104:GLN:HG2	1.76	0.68
1:A:3723:ASP:HB2	1:A:3739:ILE:HB	1.75	0.68
1:F:1497:ARG:NH2	1:F:1539:SER:O	2.27	0.68
1:F:3728:VAL:HG13	1:F:3736:LYS:HE3	1.75	0.68
1:A:785:MET:HA	1:A:788:TYR:HD2	1.58	0.68
1:F:3762:GLN:NE2	1:F:3793:VAL:O	2.27	0.68
1:A:2855:VAL:HG22	1:A:2859:GLN:HE22	1.58	0.68
1:A:183:GLU:HG2	1:A:185:HIS:H	1.59	0.68
1:F:935:HIS:O	1:F:938:VAL:HG12	1.94	0.68
1:F:3575:LEU:HB2	1:F:3800:LEU:HD21	1.76	0.68
3:H:67:PRO:HG2	3:H:117:VAL:HG12	1.75	0.68
1:A:4114:PRO:HA	1:A:4117:LEU:HB2	1.76	0.68
1:F:1600:MET:O	1:F:1603:GLN:NE2	2.24	0.68
1:F:2266:ASN:OD1	1:F:2311:ARG:NE	2.27	0.68
1:F:2506:LEU:HB3	1:F:2525:TRP:CH2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:549:THR:O	3:H:551:GLN:N	2.27	0.68
7:E:36:DA:H2"	7:E:37:DT:H5"	1.75	0.68
1:A:82:ARG:HD2	1:A:82:ARG:N	2.09	0.67
1:A:358:GLU:O	1:A:361:ILE:N	2.27	0.67
1:A:449:TYR:CD2	1:A:453:MET:HE3	2.29	0.67
1:A:1576:ASP:OD1	1:A:1577:LEU:N	2.26	0.67
1:A:2796:ALA:O	1:A:2799:GLN:NE2	2.27	0.67
2:B:262:LYS:HB3	2:B:268:VAL:HG12	1.76	0.67
1:F:2169:LEU:HD23	1:F:2208:ASP:HB2	1.76	0.67
2:G:335:GLU:HA	2:G:338:LYS:HE2	1.74	0.67
1:A:2512:ASP:HB2	1:A:2517:LEU:HD12	1.75	0.67
1:F:2490:GLU:OE2	1:F:2495:SER:N	2.25	0.67
1:F:3765:GLU:HA	1:F:3768:PHE:HD2	1.59	0.67
3:H:165:LEU:HG	3:H:167:PHE:H	1.59	0.67
3:H:687:THR:HA	3:H:699:GLU:HG2	1.76	0.67
1:A:515:ARG:NH1	1:A:516:THR:O	2.27	0.67
1:A:1663:THR:O	1:A:1665:HIS:ND1	2.27	0.67
1:A:1915:LEU:HG	1:A:1918:LEU:HD12	1.76	0.67
3:C:485:PRO:HA	3:C:488:GLN:HE22	1.58	0.67
1:F:584:GLU:N	1:F:613:HIS:O	2.27	0.67
1:F:794:PRO:HA	1:F:870:LEU:HD12	1.76	0.67
3:H:11:VAL:HG12	3:H:132:ILE:HA	1.74	0.67
1:A:2371:PHE:HD2	1:A:2374:LEU:HB2	1.59	0.67
1:A:2801:ASP:OD2	1:A:2804:ILE:N	2.20	0.67
1:A:3849:LYS:HG2	1:A:3851:ASP:H	1.59	0.67
1:F:2304:VAL:HB	1:F:2348:GLN:HG3	1.77	0.67
1:F:2821:ASP:O	1:F:2829:LYS:NZ	2.28	0.67
3:H:13:CYS:HB3	3:H:134:ILE:HA	1.76	0.67
1:A:1729:PHE:HB3	1:A:1733:THR:HG21	1.75	0.67
3:C:316:TYR:N	3:C:319:ASP:O	2.20	0.67
1:F:399:GLN:OE1	1:F:399:GLN:N	2.27	0.67
1:F:1811:ARG:NH1	3:H:627:ASN:OD1	2.25	0.67
1:F:4116:ILE:HA	1:F:4119:ARG:HB2	1.77	0.67
2:G:362:LEU:HD12	2:G:436:PHE:HE2	1.60	0.67
1:A:1829:TRP:O	1:A:1883:ARG:NH1	2.27	0.67
1:A:2324:GLY:HA2	1:A:2327:LEU:HD12	1.76	0.67
1:A:2365:ASN:HB3	1:A:2366:LYS:NZ	2.09	0.67
1:F:893:SER:HA	1:F:906:PHE:HA	1.76	0.67
1:F:1713:VAL:O	1:F:1716:GLN:NE2	2.28	0.67
1:F:3454:LEU:HD21	1:F:3495:PHE:HZ	1.59	0.67
1:A:1445:ARG:HA	1:A:1448:LEU:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2330:VAL:HG23	1:A:2335:ASN:O	1.94	0.67
2:B:121:GLN:NE2	2:B:126:GLN:OE1	2.27	0.67
1:F:886:TRP:CD2	1:F:964:ARG:HD2	2.29	0.67
2:G:273:ILE:CB	2:G:368:VAL:HG22	2.24	0.67
1:F:326:MET:O	1:F:330:ASN:N	2.28	0.67
1:F:1892:LYS:O	1:F:1909:ASN:ND2	2.28	0.67
3:H:59:PHE:HB2	3:H:105:ALA:HB3	1.75	0.67
3:H:686:ILE:HG21	3:H:703:LYS:HB3	1.77	0.67
1:A:113:SER:HB2	3:C:300:ASP:HB2	1.77	0.67
1:A:2534:ASN:O	1:A:2538:ARG:N	2.22	0.67
1:A:2962:ARG:HD3	1:A:3989:ARG:HH22	1.60	0.67
1:F:1087:ARG:HA	1:F:1090:ARG:HE	1.59	0.67
1:F:1684:LEU:O	1:F:1689:LYS:NZ	2.28	0.67
1:F:2234:ASN:HA	1:F:2237:ILE:HD12	1.77	0.67
1:F:3950:THR:OG1	1:F:4068:HIS:ND1	2.28	0.67
1:A:3334:TYR:HE2	1:A:3384:HIS:CE1	2.14	0.67
1:F:2103:HIS:O	1:F:2107:SER:N	2.28	0.67
1:F:2543:ASN:ND2	1:F:2839:ASP:OD2	2.28	0.67
2:G:327:ILE:HG22	2:G:329:LEU:HD23	1.77	0.67
2:G:470:ARG:HE	3:H:346:CYS:HA	1.60	0.67
1:A:450:SER:O	1:A:453:MET:HG3	1.95	0.66
4:J:36:DG:N2	5:I:21:DA:OP1	2.24	0.66
1:A:1071:ASN:HD21	1:A:1073:PHE:HB2	1.60	0.66
1:F:926:THR:HG23	1:F:2800:ARG:HH21	1.59	0.66
1:F:2448:PRO:HA	1:F:2451:LEU:HD12	1.77	0.66
3:H:32:GLU:HA	3:H:35:LYS:HE3	1.77	0.66
6:D:32:DT:N3	7:E:24:DA:N6	2.32	0.66
1:A:403:GLY:O	1:A:406:ARG:NH2	2.28	0.66
1:A:3772:ASN:HD21	1:A:3788:LEU:HB3	1.61	0.66
1:F:1082:PHE:O	1:F:1086:TYR:N	2.28	0.66
3:H:81:ARG:NH1	3:H:82:HIS:O	2.28	0.66
1:A:66:LEU:O	1:A:70:ARG:HG2	1.95	0.66
1:A:1708:GLU:HB2	1:A:1712:ARG:NH1	2.11	0.66
1:A:2805:ALA:HA	1:A:2808:LEU:HD12	1.77	0.66
1:A:3190:LEU:HG	1:A:3231:ILE:HG23	1.77	0.66
2:B:450:GLU:HA	3:C:416:TYR:CE1	2.31	0.66
1:F:559:SER:O	1:F:562:HIS:ND1	2.29	0.66
3:H:342:VAL:HA	3:H:393:VAL:HA	1.77	0.66
1:A:20:SER:HB2	1:A:69:VAL:HG11	1.76	0.66
1:A:675:ARG:O	1:A:679:LYS:HG2	1.95	0.66
1:A:1108:MET:HA	1:A:1111:LEU:HD12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1899:VAL:HB	1:A:1911:LEU:HB3	1.77	0.66
1:A:3066:ASP:O	1:A:3070:HIS:ND1	2.28	0.66
1:F:3831:ASP:HB3	1:F:3832:PRO:HD3	1.77	0.66
3:H:41:PHE:HA	3:H:44:ARG:NH1	2.10	0.66
3:H:497:ARG:NH1	3:H:503:GLU:O	2.28	0.66
1:A:548:GLU:OE1	1:A:550:PHE:N	2.27	0.66
1:A:2230:VAL:O	1:A:2234:ASN:N	2.22	0.66
1:A:3796:MET:H	1:A:3801:GLY:HA2	1.61	0.66
1:F:1976:LEU:HD23	1:F:2142:ILE:HG13	1.78	0.66
1:F:2532:PRO:HD2	1:F:2538:ARG:HA	1.76	0.66
1:F:2884:LEU:HA	1:F:2886:GLN:HE22	1.61	0.66
2:G:356:LEU:HD11	3:H:353:ARG:HE	1.61	0.66
1:A:4037:ASN:ND2	1:A:4066:LEU:O	2.29	0.66
3:C:144:LYS:HE3	3:C:207:ILE:HD11	1.77	0.66
1:F:339:GLN:HE21	3:H:566:LYS:H	1.43	0.66
1:F:1039:TRP:HA	1:F:1042:LYS:HB2	1.77	0.66
1:A:435:LEU:HD23	1:A:438:LEU:HD12	1.78	0.66
1:A:4012:ASP:OD1	1:A:4013:TRP:N	2.29	0.66
3:C:154:LEU:HB2	3:C:215:LEU:HD13	1.77	0.66
2:G:450:GLU:HG3	3:H:415:ASN:HB3	1.76	0.66
6:D:19:DA:N6	7:E:39:DA:N1	2.43	0.66
1:A:105:VAL:O	1:A:109:ASN:ND2	2.28	0.66
1:A:270:ALA:HA	1:A:273:ARG:HE	1.61	0.66
1:A:1366:THR:HG22	1:A:1367:HIS:HD2	1.61	0.66
1:A:3139:GLN:HA	1:A:3142:ILE:HD12	1.77	0.66
3:C:513:TRP:O	3:C:517:ASN:N	2.28	0.66
1:F:99:LYS:O	1:F:99:LYS:HD2	1.96	0.66
1:F:3681:LYS:HG2	1:F:3724:GLU:HA	1.78	0.66
1:A:2329:TYR:HE1	1:A:2332:GLU:HA	1.60	0.66
2:B:507:THR:HG23	2:B:508:LEU:HD12	1.77	0.66
1:F:970:LEU:HB3	1:F:1025:LEU:HD11	1.78	0.66
1:F:1404:LYS:HA	1:F:1407:LYS:HZ3	1.60	0.66
3:H:182:PRO:HD2	3:H:521:GLU:HG3	1.77	0.66
1:A:367:GLY:HA3	1:A:416:SER:HB3	1.77	0.65
1:A:1685:ASP:H	1:A:1688:LEU:HD12	1.61	0.65
1:A:2505:VAL:HA	1:A:2508:GLN:HB2	1.76	0.65
1:A:2974:GLU:O	1:A:2978:LYS:N	2.30	0.65
1:A:3176:MET:HE3	1:A:3179:TRP:HB3	1.77	0.65
1:F:4027:TRP:NE1	1:F:4030:GLU:OE1	2.28	0.65
1:A:91:ILE:HD11	1:A:831:LEU:HD23	1.77	0.65
1:A:822:ALA:HA	1:A:828:LYS:HD3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:THR:HA	1:A:1348:LEU:HD12	1.78	0.65
1:A:3231:ILE:HG22	1:A:3235:LYS:NZ	2.11	0.65
1:A:3385:LEU:HB3	1:A:3416:LEU:HD22	1.78	0.65
1:F:1486:LEU:HA	1:F:1490:GLY:HA3	1.78	0.65
1:F:1892:LYS:NZ	1:F:1906:THR:O	2.28	0.65
1:F:3572:ILE:HG23	1:F:3800:LEU:HD23	1.79	0.65
1:F:3918:LEU:O	1:F:3946:PHE:N	2.27	0.65
2:G:75:ILE:HD13	2:G:116:ILE:HD11	1.77	0.65
3:H:312:GLN:O	3:H:323:PHE:N	2.22	0.65
3:H:329:GLU:HA	3:H:332:LYS:HE2	1.78	0.65
3:H:512:ILE:O	3:H:516:LEU:N	2.26	0.65
1:A:889:GLU:HB2	1:A:891:ARG:HH11	1.61	0.65
1:A:1045:THR:OG1	1:A:1047:GLN:NE2	2.29	0.65
1:A:1048:GLN:HA	1:A:1051:LYS:HD3	1.78	0.65
1:A:1147:LYS:NZ	1:A:1148:ALA:O	2.29	0.65
1:A:3046:ARG:HB3	1:A:3050:LYS:HZ1	1.59	0.65
2:B:425:ILE:HG22	2:B:427:VAL:HG13	1.79	0.65
2:B:450:GLU:OE2	3:C:413:LYS:NZ	2.27	0.65
1:F:1060:PHE:HA	1:F:1063:LEU:HD12	1.79	0.65
2:G:85:VAL:HG22	2:G:106:GLN:HE22	1.60	0.65
3:H:127:PHE:O	3:H:130:ARG:NH1	2.29	0.65
1:A:1799:GLU:HA	1:A:1802:TYR:HB3	1.78	0.65
2:B:297:LYS:HB3	3:C:298:ASN:HD21	1.61	0.65
1:F:313:LEU:HD21	1:F:357:LYS:NZ	2.12	0.65
1:F:1020:PRO:O	1:F:1026:ARG:NH2	2.29	0.65
1:F:3894:PRO:HA	1:F:3897:PHE:HB3	1.78	0.65
2:G:51:SER:HA	2:G:58:THR:HA	1.78	0.65
1:A:1131:ILE:HG23	1:A:1190:LEU:HD21	1.78	0.65
1:A:1407:LYS:HZ2	1:A:1412:LYS:HG2	1.62	0.65
1:A:2379:MET:HB3	1:A:2383:PHE:CE2	2.31	0.65
1:A:3903:HIS:ND1	1:A:3934:THR:O	2.30	0.65
1:F:708:VAL:HG12	1:F:712:LYS:NZ	2.11	0.65
1:F:1485:SER:O	1:F:1490:GLY:N	2.29	0.65
1:F:3051:LEU:HA	1:F:3054:GLN:HE22	1.62	0.65
1:F:3360:LEU:HD11	1:F:3377:LEU:HD11	1.77	0.65
1:F:3828:TYR:HE2	1:F:3879:PRO:HD3	1.61	0.65
2:G:204:HIS:CD2	2:G:213:ILE:HB	2.30	0.65
6:D:15:DA:H2	7:E:42:DA:H61	1.45	0.65
1:A:70:ARG:NH1	1:A:72:SER:HA	2.10	0.65
1:A:346:TYR:CZ	1:A:350:ARG:HD2	2.32	0.65
1:F:1804:MET:HA	1:F:1807:LYS:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:PHE:N	1:A:447:PRO:HD2	2.01	0.65
1:A:586:GLN:HE21	1:A:602:MET:HA	1.62	0.65
1:A:1735:ARG:NH2	1:A:1738:ASN:OD1	2.28	0.65
1:A:3765:GLU:HA	1:A:3768:PHE:CD2	2.32	0.65
1:F:372:PRO:HA	1:F:375:VAL:HB	1.77	0.65
1:A:2291:GLN:HE22	1:A:2295:GLN:HA	1.60	0.65
1:A:2944:THR:HA	1:A:2948:GLY:HA3	1.77	0.65
1:F:104:SER:HA	1:F:107:ILE:HG12	1.77	0.65
1:F:1735:ARG:HA	1:F:1738:ASN:HD21	1.62	0.65
2:G:49:PHE:CE2	2:G:128:GLN:HB2	2.31	0.65
2:G:114:LYS:HA	2:G:117:LEU:HD12	1.77	0.65
2:G:286:ILE:O	3:H:313:GLY:N	2.29	0.65
3:H:15:ASP:HB2	3:H:20:MET:SD	2.36	0.65
3:H:57:VAL:HA	3:H:79:VAL:HA	1.79	0.65
6:D:16:DA:N6	7:E:42:DA:N1	2.45	0.65
1:A:449:TYR:HB2	1:A:453:MET:SD	2.37	0.65
1:A:3144:PHE:HA	1:A:3150:ASN:HD22	1.61	0.65
1:A:3950:THR:O	1:A:4068:HIS:ND1	2.30	0.65
2:B:288:LEU:N	3:C:311:ILE:O	2.29	0.65
3:C:80:HIS:O	3:C:81:ARG:NH1	2.29	0.65
1:F:832:LYS:O	1:F:833:HIS:ND1	2.30	0.65
1:F:1413:ASP:OD1	1:F:1414:ILE:HD12	1.96	0.65
1:F:1854:ARG:HH12	3:H:725:VAL:HG11	1.62	0.65
1:A:1427:SER:HA	1:A:1430:GLU:HB2	1.79	0.65
1:A:2480:ILE:HA	1:A:2483:ASN:HD21	1.61	0.65
1:A:3831:ASP:HA	1:A:3835:PRO:HD2	1.76	0.65
2:B:483:LEU:HG	2:B:487:PHE:HE2	1.60	0.65
3:C:9:ALA:N	3:C:129:LYS:O	2.28	0.65
1:F:850:GLU:HA	1:F:853:ILE:HD12	1.78	0.65
1:F:1169:VAL:HG21	1:F:1198:LEU:HD21	1.79	0.65
3:H:148:ASP:OD1	3:H:149:ILE:N	2.30	0.65
1:A:974:CYS:HA	1:A:1028:PHE:CE2	2.27	0.64
1:A:3654:MET:HG2	1:A:3659:PHE:HB2	1.79	0.64
1:F:313:LEU:HD11	1:F:357:LYS:HD3	1.79	0.64
1:F:958:MET:HG3	1:F:961:LEU:HD12	1.78	0.64
1:F:3585:PHE:HA	1:F:3613:MET:HE1	1.77	0.64
1:A:392:CYS:SG	1:A:393:LYS:N	2.70	0.64
1:A:1104:LEU:HD11	1:A:1134:LEU:HD21	1.79	0.64
1:A:3692:VAL:HA	1:A:3696:ARG:HH22	1.62	0.64
2:B:514:MET:HA	2:B:517:ARG:HB3	1.79	0.64
1:F:850:GLU:OE1	1:F:850:GLU:N	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1257:LEU:HD22	1:F:1337:VAL:HG21	1.78	0.64
1:F:3499:ILE:HG23	1:F:3529:ILE:HG12	1.79	0.64
2:G:403:ARG:HE	5:I:31:DA:H4'	1.62	0.64
2:G:425:ILE:HG22	2:G:427:VAL:HG13	1.78	0.64
1:A:22:ALA:O	1:A:33:GLN:NE2	2.31	0.64
1:A:1504:ASP:O	1:A:1508:LYS:N	2.28	0.64
1:A:1506:SER:HA	1:A:1509:GLN:HE21	1.62	0.64
1:A:2390:HIS:N	1:A:2394:LYS:HZ1	1.95	0.64
2:B:372:GLU:OE2	2:B:378:SER:N	2.30	0.64
1:F:1799:GLU:OE2	1:F:1806:ARG:NH2	2.24	0.64
1:F:2586:PHE:HB2	1:F:2776:ARG:HE	1.60	0.64
1:F:3001:CYS:HA	1:F:3004:HIS:HB2	1.78	0.64
1:A:741:ILE:HG22	1:A:745:VAL:HG12	1.79	0.64
1:A:1696:LEU:HA	1:A:1699:PHE:HB2	1.79	0.64
1:A:1776:GLU:HG3	1:A:1777:LEU:HD12	1.78	0.64
1:A:3496:ILE:HG21	1:A:3707:GLY:H	1.61	0.64
1:A:3931:ALA:N	1:A:3936:GLY:O	2.20	0.64
2:B:484:GLN:HA	2:B:487:PHE:HD2	1.61	0.64
1:F:387:GLU:HG3	1:F:388:LEU:HD12	1.79	0.64
1:F:1298:LEU:HG	1:F:1367:HIS:HB2	1.79	0.64
1:F:3462:ARG:O	1:F:3498:TRP:NE1	2.31	0.64
1:A:930:ALA:HA	1:A:933:LEU:HD12	1.79	0.64
2:B:270:SER:H	2:B:375:VAL:HB	1.62	0.64
1:F:1172:LEU:O	1:F:1176:CYS:N	2.31	0.64
1:F:1494:GLY:H	1:F:1538:LEU:HD11	1.62	0.64
1:A:1007:VAL:HA	1:A:1010:LEU:HD12	1.79	0.64
1:A:1893:GLU:HG2	1:A:1894:SER:H	1.62	0.64
1:A:3033:GLU:HG2	1:A:3034:PRO:HD3	1.79	0.64
1:A:3251:ASN:HD21	1:A:3254:LEU:HB3	1.62	0.64
1:A:3283:LEU:HD21	1:A:3287:ARG:HH21	1.62	0.64
1:F:180:LEU:HG	1:F:182:GLY:H	1.63	0.64
1:F:749:VAL:HA	1:F:752:LEU:HD12	1.80	0.64
1:F:771:ASN:OD1	1:F:854:ARG:NH2	2.31	0.64
1:F:2313:LYS:HA	1:F:2316:TYR:CZ	2.33	0.64
1:F:2464:HIS:HD2	1:F:2466:SER:HB3	1.61	0.64
3:H:16:VAL:HB	3:H:58:LEU:HD11	1.79	0.64
3:H:28:GLU:OE1	3:H:36:LYS:NZ	2.22	0.64
3:H:266:SER:OG	3:H:363:LYS:NZ	2.23	0.64
6:D:20:DT:H2''	6:D:21:DA:C5	2.33	0.64
1:A:305:ASN:HD21	1:A:307:GLU:HG2	1.61	0.64
1:A:1407:LYS:HD3	1:A:1412:LYS:HZ2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2335:ASN:HD21	1:A:2337:LEU:HD12	1.63	0.64
1:A:3499:ILE:HG21	1:A:3529:ILE:HG23	1.79	0.64
1:A:78:PHE:O	1:A:82:ARG:NH1	2.30	0.64
1:A:2183:HIS:HB2	1:A:2185:MET:HG3	1.80	0.64
3:C:144:LYS:NZ	3:C:203:GLU:OE1	2.27	0.64
3:C:279:VAL:HG12	3:C:286:LYS:HD3	1.80	0.64
1:F:440:VAL:HA	1:F:443:ILE:HD12	1.79	0.64
1:F:3126:LEU:O	1:F:3129:LEU:N	2.31	0.64
2:G:422:ASP:OD1	2:G:423:GLN:N	2.30	0.64
1:A:3071:GLY:O	1:A:3074:GLN:NE2	2.31	0.64
1:F:892:LEU:HG	1:F:907:LEU:HB2	1.78	0.64
1:A:408:TYR:HA	1:A:449:TYR:CE2	2.33	0.64
1:A:2791:ILE:HG23	1:A:2794:LEU:HD22	1.78	0.64
3:C:272:VAL:HG12	3:C:274:LYS:H	1.62	0.64
3:C:652:GLU:HA	3:C:655:PHE:HB3	1.79	0.64
1:F:1574:ASN:ND2	1:F:1578:ALA:H	1.96	0.64
1:F:1829:TRP:HA	1:F:1883:ARG:HH12	1.63	0.64
3:H:12:LEU:HD12	3:H:56:LEU:HB2	1.78	0.64
1:A:449:TYR:CB	1:A:453:MET:SD	2.86	0.63
1:A:1684:LEU:HD11	1:A:1689:LYS:HB3	1.80	0.63
1:A:3311:ASN:ND2	1:A:3315:TYR:OH	2.28	0.63
1:A:3380:ARG:HA	1:A:3383:GLN:HG3	1.80	0.63
1:F:1500:LEU:HD12	1:F:1501:PRO:HD2	1.80	0.63
3:H:352:GLN:H	3:H:355:PHE:HD1	1.44	0.63
1:A:1623:LEU:HB3	1:A:1667:SER:HB2	1.78	0.63
1:A:3352:GLU:O	1:A:3357:ARG:NH2	2.31	0.63
3:C:688:LYS:NZ	3:C:699:GLU:OE1	2.31	0.63
1:F:891:ARG:HH21	1:F:960:GLN:HE22	1.44	0.63
1:F:1457:GLN:HB3	1:F:1460:ARG:HH21	1.62	0.63
1:A:1476:HIS:HB2	1:A:1524:LEU:HD11	1.80	0.63
1:A:2801:ASP:HB3	1:A:2804:ILE:HG12	1.79	0.63
1:A:3616:ALA:O	1:A:3633:ILE:HG22	1.98	0.63
1:A:3812:LEU:HG	1:A:3816:LEU:HG	1.80	0.63
1:F:1041:ILE:HD11	1:F:1046:PRO:HA	1.80	0.63
1:F:1468:LEU:HG	1:F:1470:SER:H	1.63	0.63
1:F:2133:LEU:HD23	1:F:2146:LEU:HD11	1.81	0.63
1:F:2373:PRO:HA	1:F:2404:ARG:CZ	2.29	0.63
1:F:3467:ARG:HH12	1:F:3471:ILE:HB	1.64	0.63
1:A:28:ALA:HA	1:A:77:GLU:OE2	1.98	0.63
1:A:1136:ARG:HG3	1:A:1140:LYS:HZ3	1.63	0.63
1:A:1413:ASP:OD1	1:A:1414:ILE:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1766:LEU:O	1:A:1822:ARG:NH1	2.32	0.63
2:B:126:GLN:O	2:B:130:ARG:HG3	1.99	0.63
1:F:1489:LYS:HD3	1:F:1492:ALA:HB3	1.80	0.63
1:F:1937:ARG:O	1:F:1941:HIS:ND1	2.30	0.63
1:F:3034:PRO:HB2	1:F:3037:GLN:HB2	1.80	0.63
1:F:3413:TYR:HD2	1:F:3453:ALA:HB2	1.63	0.63
1:A:81:CYS:HB2	1:A:82:ARG:NH1	2.13	0.63
1:A:1202:ARG:NH2	1:A:1210:ASP:HB2	2.13	0.63
1:A:3089:LEU:O	1:A:3093:GLN:N	2.28	0.63
1:F:90:CYS:SG	1:F:133:LYS:NZ	2.64	0.63
1:F:2866:ALA:HA	1:F:2869:LEU:HB2	1.80	0.63
1:F:3738:ILE:N	1:F:3750:PHE:O	2.21	0.63
1:F:3742:GLY:N	1:F:3746:ARG:O	2.32	0.63
3:H:679:VAL:HG11	3:H:705:LEU:HD21	1.80	0.63
1:A:214:GLU:O	1:A:216:LYS:HG2	1.98	0.63
1:A:1139:GLU:HB2	1:A:1140:LYS:HZ2	1.63	0.63
1:A:1483:LEU:HD11	1:A:1518:ALA:HB1	1.81	0.63
1:A:2155:GLU:HA	1:A:2158:ARG:HG2	1.79	0.63
3:C:296:CYS:HA	3:C:304:GLU:HA	1.80	0.63
1:F:2102:LYS:O	1:F:2106:ARG:HD3	1.98	0.63
1:F:2575:PRO:HA	1:F:2786:LYS:HA	1.79	0.63
1:F:2578:GLU:O	1:F:2784:GLN:NE2	2.28	0.63
2:G:400:TYR:N	2:G:409:TYR:O	2.30	0.63
1:A:452:LYS:HA	1:A:455:LEU:HD12	1.81	0.63
1:A:1519:PHE:CD1	1:A:1570:GLU:HG3	2.34	0.63
1:A:2573:PRO:HA	1:A:2786:LYS:HB3	1.81	0.63
1:A:2791:ILE:HA	1:A:2794:LEU:HD13	1.81	0.63
1:A:2939:LEU:O	1:A:2942:ILE:CG2	2.47	0.63
3:C:234:LEU:HG	3:C:237:PHE:HB2	1.80	0.63
1:F:1023:SER:HA	1:F:1026:ARG:HB2	1.80	0.63
1:F:3821:SER:HB3	1:F:3824:GLU:HB3	1.79	0.63
3:H:294:VAL:HA	3:H:307:LYS:HE3	1.80	0.63
1:A:61:ARG:NH1	1:A:62:ASP:OD1	2.31	0.63
1:A:1986:ARG:HA	1:A:2184:TYR:HD2	1.64	0.63
1:A:2453:GLU:OE1	1:A:2453:GLU:N	2.31	0.63
2:B:51:SER:HA	2:B:58:THR:HA	1.79	0.63
2:B:87:PHE:HB2	2:B:103:TYR:HB3	1.80	0.63
2:B:340:PHE:HB2	3:C:486:ARG:HH12	1.64	0.63
2:B:412:ALA:O	2:B:435:VAL:N	2.32	0.63
1:F:13:LEU:O	1:F:16:GLN:N	2.32	0.63
1:F:1298:LEU:HA	1:F:1367:HIS:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1423:ILE:HG13	1:F:1425:ALA:H	1.63	0.63
1:F:1444:ASP:OD1	1:F:1445:ARG:N	2.32	0.63
1:F:1786:ALA:H	1:F:1830:HIS:HE1	1.47	0.63
1:F:2193:ILE:HG22	1:F:2194:LEU:HD22	1.81	0.63
1:F:3593:ARG:NH1	1:F:3657:SER:OG	2.30	0.63
2:G:484:GLN:O	2:G:488:ARG:HG2	1.98	0.63
1:A:2351:GLN:HB3	1:A:2356:MET:HB2	1.81	0.63
1:A:2910:VAL:HA	1:A:2915:ARG:HD3	1.81	0.63
2:B:36:ASP:OD1	2:B:37:SER:N	2.32	0.63
1:F:2548:PRO:HG3	1:F:2846:THR:HG22	1.81	0.63
2:G:276:LEU:HD11	2:G:367:PHE:HB2	1.79	0.63
3:H:488:GLN:NE2	3:H:509:GLN:OE1	2.32	0.63
3:C:342:VAL:HG21	3:C:391:ALA:HB1	1.79	0.62
1:F:1115:HIS:CE1	1:F:1180:GLN:HB3	2.34	0.62
1:F:1459:HIS:HB2	1:F:1520:ALA:HB1	1.80	0.62
1:F:1703:THR:HG21	1:F:1707:LEU:HD21	1.81	0.62
1:F:2554:PHE:HD1	1:F:2557:LEU:HB2	1.64	0.62
1:F:3259:LEU:O	1:F:3276:TRP:NE1	2.26	0.62
1:A:1956:PHE:CE1	1:A:1958:GLU:HB3	2.34	0.62
1:A:3421:ASP:OD1	1:A:3425:ARG:NE	2.32	0.62
2:B:474:ARG:HE	2:B:476:ASP:H	1.47	0.62
1:F:3278:GLN:O	1:F:3282:ARG:HG2	1.99	0.62
1:F:3758:LEU:HB3	1:F:3762:GLN:HE22	1.64	0.62
2:G:289:TYR:HD2	2:G:292:THR:H	1.45	0.62
1:A:2573:PRO:O	1:A:2786:LYS:NZ	2.32	0.62
3:C:413:LYS:N	3:C:417:GLU:OE1	2.32	0.62
1:F:2125:TRP:O	1:F:2129:LEU:HG	1.98	0.62
2:G:362:LEU:HD12	2:G:436:PHE:CE2	2.34	0.62
3:H:377:LEU:HA	3:H:380:LEU:HD12	1.82	0.62
1:A:449:TYR:HB3	1:A:453:MET:CG	2.29	0.62
1:A:542:ASP:OD1	1:A:543:SER:N	2.30	0.62
1:A:2331:MET:N	1:A:2335:ASN:O	2.31	0.62
1:A:3270:ASP:OD1	1:A:3271:ASP:N	2.32	0.62
1:A:3413:TYR:HA	1:A:3449:LYS:NZ	2.14	0.62
2:B:297:LYS:HZ3	3:C:294:VAL:HG23	1.63	0.62
2:B:358:LYS:HB3	3:C:409:PHE:CE2	2.34	0.62
3:H:493:CYS:HB3	3:H:505:LEU:HD12	1.81	0.62
1:A:230:LEU:HD23	1:A:234:PHE:HZ	1.64	0.62
1:A:1329:ARG:HE	1:A:1332:TYR:HB3	1.63	0.62
1:A:2865:HIS:HB2	1:A:2868:LEU:HD13	1.81	0.62
3:C:282:LYS:HG3	3:C:283:THR:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:497:ARG:NH1	3:C:503:GLU:O	2.32	0.62
1:F:560:LEU:O	1:F:564:LEU:HG	2.00	0.62
1:F:2228:ARG:HA	1:F:2232:ARG:HH12	1.64	0.62
1:F:3590:ASN:HA	1:F:4031:ILE:HD12	1.81	0.62
1:A:132:ILE:HA	1:A:135:LEU:HD12	1.82	0.62
1:A:449:TYR:CD2	1:A:453:MET:HE1	2.26	0.62
1:A:2310:VAL:HG22	1:A:2311:ARG:H	1.64	0.62
1:A:2384:PHE:HD2	1:A:2385:LEU:HD22	1.62	0.62
1:A:3374:ILE:HA	1:A:3377:LEU:HD12	1.81	0.62
1:F:399:GLN:HB3	1:F:403:GLY:H	1.65	0.62
1:F:2122:LEU:HB3	1:F:2127:LYS:N	2.14	0.62
1:F:3150:ASN:HA	1:F:3156:PRO:HG2	1.81	0.62
1:F:3177:ASN:OD1	1:F:3178:ILE:N	2.32	0.62
1:F:3511:ALA:HB1	1:F:3514:VAL:HB	1.80	0.62
1:F:3607:GLU:HA	1:F:3610:TYR:CZ	2.35	0.62
2:G:296:VAL:HG11	3:H:305:VAL:HG11	1.80	0.62
3:H:363:LYS:HE2	3:H:365:PHE:HZ	1.65	0.62
1:A:2539:LEU:HD23	1:A:2543:ASN:HD21	1.64	0.62
1:A:3046:ARG:HA	1:A:3049:LEU:HD12	1.82	0.62
1:A:3302:LYS:HD3	1:A:3333:THR:HG21	1.80	0.62
2:B:352:PRO:HA	2:B:394:VAL:HA	1.82	0.62
3:C:256:ASN:OD1	3:C:257:LEU:N	2.32	0.62
1:F:736:LEU:HB3	1:F:740:ILE:HG21	1.80	0.62
1:F:2439:ILE:HA	1:F:2442:MET:HG3	1.82	0.62
3:H:510:GLN:HA	3:H:513:TRP:CE3	2.34	0.62
4:J:15:DA:H5'	5:I:42:DA:C2	2.35	0.62
1:A:1820:VAL:HA	1:A:1824:LEU:HB2	1.82	0.62
1:A:3461:ALA:HA	1:A:3464:LYS:HD3	1.80	0.62
3:C:297:LEU:N	3:C:303:THR:O	2.23	0.62
1:F:289:ASN:O	1:F:293:LEU:N	2.22	0.62
1:F:1584:GLN:O	1:F:1587:VAL:HG12	2.00	0.62
1:F:2098:THR:O	1:F:2102:LYS:NZ	2.33	0.62
1:F:2345:VAL:HA	1:F:2348:GLN:HG2	1.80	0.62
3:H:454:VAL:O	3:H:458:ILE:N	2.33	0.62
1:A:39:GLY:HA3	1:A:826:PHE:CE1	2.35	0.62
1:A:699:GLU:HG2	1:A:700:LYS:HD3	1.81	0.62
1:A:3665:MET:O	1:A:3669:LYS:NZ	2.31	0.62
2:B:144:SER:HA	2:B:189:LYS:NZ	2.14	0.62
1:F:793:LEU:O	1:F:795:CYS:N	2.30	0.62
1:F:2183:HIS:H	1:F:2186:VAL:HB	1.65	0.62
3:H:9:ALA:N	3:H:129:LYS:O	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:479:ILE:HA	1:A:482:VAL:HG22	1.82	0.62
1:A:1274:ARG:HA	1:A:1274:ARG:CZ	2.30	0.62
1:A:1563:PHE:HD2	1:A:1566:THR:HG21	1.64	0.62
1:A:1839:PHE:CE1	1:A:1843:ILE:HG21	2.35	0.62
2:B:275:ASN:HA	2:B:366:LEU:HD12	1.81	0.62
1:F:1533:LEU:HD13	1:F:1585:SER:HB2	1.80	0.62
1:F:2420:PHE:HZ	1:F:2435:CYS:HB3	1.64	0.62
1:F:3460:GLU:O	1:F:3464:LYS:HG2	2.00	0.62
1:F:3730:ALA:HA	1:F:3734:ARG:NE	2.15	0.62
2:G:132:GLN:OE1	2:G:137:HIS:HB2	2.00	0.62
2:G:273:ILE:HG23	2:G:368:VAL:CG2	2.30	0.62
2:G:348:MET:O	3:H:461:MET:HG2	2.00	0.62
2:G:388:LYS:HA	2:G:391:GLU:HG2	1.82	0.62
1:A:1887:ASP:OD1	1:A:1888:ASP:N	2.33	0.61
1:A:2177:ASN:ND2	1:A:2181:GLY:O	2.27	0.61
1:A:2586:PHE:CZ	1:A:2780:LEU:HB3	2.35	0.61
1:A:2881:LEU:HA	1:A:2886:GLN:HE21	1.65	0.61
1:A:3275:SER:HA	1:A:3278:GLN:HE21	1.65	0.61
1:A:3527:GLN:HE21	1:A:3697:ASN:HB2	1.64	0.61
2:B:34:GLY:HA2	2:B:160:LYS:HG3	1.80	0.61
2:B:407:PRO:HG3	3:C:486:ARG:HG3	1.81	0.61
3:C:455:ASP:HA	3:C:458:ILE:HD12	1.81	0.61
1:F:3737:ARG:HA	1:F:3751:LEU:HA	1.79	0.61
1:A:848:LEU:HG	1:A:851:ILE:HD12	1.82	0.61
1:A:1779:GLN:HA	1:A:1782:PHE:CD2	2.35	0.61
1:A:2154:GLU:HA	1:A:2157:PHE:CE1	2.35	0.61
1:F:1205:ASN:HA	1:F:1275:THR:HA	1.82	0.61
1:F:1454:ALA:HA	1:F:1457:GLN:HE21	1.65	0.61
1:F:1468:LEU:HD12	1:F:1469:PRO:HD2	1.80	0.61
1:A:1112:ALA:HA	1:A:1180:GLN:HG2	1.82	0.61
1:A:1391:VAL:O	1:A:1395:LEU:N	2.32	0.61
1:A:3856:MET:HB3	1:A:4072:PRO:HB2	1.82	0.61
2:B:459:VAL:HG12	2:B:463:LYS:HE2	1.82	0.61
1:F:23:ASP:HA	1:F:34:LEU:HD11	1.82	0.61
1:F:977:ASP:HB3	1:F:980:THR:HG23	1.81	0.61
1:F:2196:TRP:HB2	1:F:2199:LEU:HB2	1.82	0.61
1:F:2481:HIS:CE1	1:F:2485:ARG:HE	2.17	0.61
1:F:3680:LEU:HD22	1:F:3724:GLU:HG3	1.82	0.61
2:G:287:LYS:HA	3:H:312:GLN:HA	1.82	0.61
3:H:37:VAL:O	3:H:41:PHE:HD1	1.82	0.61
3:H:232:ARG:HA	3:H:515:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1202:ARG:NE	1:A:1210:ASP:OD2	2.33	0.61
1:A:1854:ARG:HH12	1:A:1863:PHE:HB2	1.64	0.61
1:A:3952:PHE:HD2	1:A:3953:LEU:HD22	1.66	0.61
2:B:399:ARG:HA	2:B:410:PHE:HA	1.81	0.61
1:F:1809:ASP:O	1:F:1816:ARG:NH2	2.33	0.61
1:F:2394:LYS:HB2	1:F:2431:ARG:HH12	1.65	0.61
1:F:3054:GLN:OE1	1:F:3054:GLN:N	2.32	0.61
1:A:2206:PRO:O	1:A:2210:VAL:N	2.25	0.61
1:A:2471:GLU:OE2	1:A:2472:GLN:NE2	2.33	0.61
1:A:2528:GLU:HA	1:A:2531:LEU:O	2.01	0.61
2:B:120:ASP:OD1	2:B:123:LYS:NZ	2.31	0.61
2:B:123:LYS:O	2:B:126:GLN:NE2	2.33	0.61
1:F:1511:ALA:HA	1:F:1514:LEU:HD12	1.82	0.61
1:F:2290:PRO:HG2	1:F:2293:GLY:H	1.64	0.61
1:F:2368:THR:HG21	1:F:2400:VAL:HG23	1.82	0.61
2:G:358:LYS:HE2	3:H:353:ARG:NH2	2.15	0.61
1:A:32:HIS:O	1:A:36:ARG:NH1	2.34	0.61
1:A:853:ILE:O	1:A:857:GLN:NE2	2.31	0.61
1:A:1622:ILE:O	1:A:1626:TRP:N	2.34	0.61
1:A:2880:CYS:O	1:A:2884:LEU:N	2.34	0.61
1:A:3326:GLN:HA	1:A:3329:LEU:HD12	1.83	0.61
1:A:3841:ASP:OD1	1:A:3842:TRP:N	2.33	0.61
1:A:3918:LEU:HD22	1:A:3920:ILE:HG13	1.82	0.61
3:C:357:MET:HE1	3:C:425:PRO:HA	1.81	0.61
3:C:645:GLU:O	3:C:649:PHE:N	2.33	0.61
1:F:925:GLN:HB2	1:F:2800:ARG:HH22	1.66	0.61
1:F:1886:LYS:O	1:F:1890:HIS:ND1	2.33	0.61
1:F:1927:MET:HG2	1:F:1929:GLY:H	1.65	0.61
1:F:3244:ASP:HA	1:F:3247:ARG:NH1	2.16	0.61
1:F:3833:ARG:HG3	1:F:3834:ALA:H	1.66	0.61
1:F:3965:ARG:HH21	1:F:3969:ASN:HA	1.65	0.61
1:A:447:PRO:HB3	1:A:526:ASP:HB3	1.83	0.61
1:A:1032:CYS:O	1:A:1036:PHE:N	2.27	0.61
1:A:2835:LYS:O	1:A:2838:GLN:NE2	2.33	0.61
1:A:3789:ARG:HH22	1:A:3791:TYR:H	1.49	0.61
3:C:485:PRO:HA	3:C:488:GLN:NE2	2.14	0.61
1:F:1610:ASN:OD1	1:F:1611:GLN:N	2.30	0.61
1:F:3005:LEU:HD21	1:F:3252:PHE:CZ	2.36	0.61
1:F:3532:PRO:HA	1:F:3535:ILE:HD12	1.82	0.61
2:G:282:LYS:NZ	2:G:483:LEU:HD13	2.16	0.61
1:A:1602:ASP:OD1	1:A:1603:GLN:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3034:PRO:HG2	1:A:3037:GLN:HB2	1.81	0.61
1:A:3231:ILE:HG22	1:A:3235:LYS:HZ2	1.65	0.61
1:A:3365:SER:HB3	1:A:3373:VAL:HA	1.82	0.61
1:A:3924:HIS:CD2	1:A:3926:ASN:HB2	2.36	0.61
1:F:2796:ALA:O	1:F:2799:GLN:NE2	2.34	0.61
1:F:3862:ALA:HB3	1:F:4119:ARG:HH21	1.64	0.61
2:G:351:LYS:O	2:G:395:ALA:N	2.32	0.61
3:H:137:ASP:HB3	3:H:166:PRO:HG2	1.82	0.61
1:A:1209:LYS:HE3	1:A:1276:VAL:HG13	1.83	0.61
1:A:1741:ASP:OD1	1:A:1745:LYS:NZ	2.33	0.61
1:A:2457:PRO:O	1:A:2460:GLU:HG2	2.00	0.61
2:B:89:GLY:HA2	2:B:101:ASN:HB3	1.82	0.61
2:B:439:PHE:HB3	3:C:483:PRO:HA	1.83	0.61
1:F:868:LYS:O	1:F:872:THR:N	2.25	0.61
1:F:960:GLN:OE1	1:F:960:GLN:N	2.29	0.61
1:F:1142:HIS:O	1:F:1146:ASN:N	2.33	0.61
1:F:2425:ARG:NH1	1:F:2460:GLU:OE1	2.33	0.61
1:F:4049:ARG:HH22	1:F:4058:VAL:HB	1.64	0.61
2:G:299:LYS:HG2	3:H:294:VAL:HG12	1.83	0.61
2:G:312:LEU:HD12	2:G:313:PRO:HD2	1.83	0.61
3:H:15:ASP:HB3	3:H:136:THR:HG23	1.82	0.61
1:A:163:LYS:HG2	2:B:313:PRO:HD3	1.82	0.61
1:A:251:PHE:HA	1:A:254:LYS:HG2	1.82	0.61
1:A:317:GLU:HA	1:A:320:LEU:HB2	1.83	0.61
1:A:1825:LEU:HD23	1:A:1828:LEU:HD21	1.82	0.61
1:F:1622:ILE:HA	1:F:1625:HIS:HB2	1.83	0.61
2:G:261:LEU:HG	2:G:271:VAL:HG21	1.83	0.61
1:A:523:THR:O	1:A:525:LYS:N	2.34	0.60
1:A:1414:ILE:HG22	1:A:1418:HIS:CE1	2.36	0.60
3:C:629:THR:HA	3:C:632:PHE:CE2	2.35	0.60
1:F:1131:ILE:HA	1:F:1134:LEU:HD12	1.82	0.60
1:F:3713:PRO:O	1:F:3716:HIS:NE2	2.34	0.60
1:A:2841:ASN:O	1:A:2845:ASN:ND2	2.34	0.60
1:A:3059:GLN:O	1:A:3063:THR:N	2.22	0.60
1:A:3729:MET:CE	1:A:3737:ARG:CB	2.79	0.60
1:A:3754:GLY:HA2	1:A:3800:LEU:HG	1.82	0.60
1:F:781:ASP:OD2	1:F:783:HIS:ND1	2.34	0.60
1:F:3457:ASN:ND2	1:F:3492:CYS:SG	2.74	0.60
1:F:4017:GLU:HG2	1:F:4033:VAL:HG12	1.83	0.60
1:A:984:TYR:O	1:A:988:VAL:N	2.33	0.60
2:B:147:LEU:HD12	2:B:189:LYS:HE2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:VAL:HA	2:B:462:MET:HE2	1.82	0.60
3:C:497:ARG:NH2	3:C:501:PRO:O	2.34	0.60
1:F:2320:ALA:HB3	1:F:2366:LYS:HE3	1.83	0.60
1:F:2954:GLN:HA	1:F:2957:LEU:HD12	1.82	0.60
1:F:3176:MET:HA	1:F:3179:TRP:CD1	2.36	0.60
2:G:258:ARG:NH2	5:I:33:DA:OP1	2.35	0.60
1:A:528:VAL:HG13	1:A:532:ARG:HH22	1.65	0.60
1:A:1663:THR:H	1:A:1665:HIS:CE1	2.19	0.60
1:A:2447:LYS:HZ3	1:A:2449:VAL:H	1.49	0.60
1:A:2877:SER:HB2	1:A:2928:LYS:HE3	1.84	0.60
1:A:3665:MET:SD	1:A:3666:LEU:HD22	2.41	0.60
2:B:189:LYS:HA	2:B:192:ASP:HB2	1.82	0.60
2:B:458:GLN:O	2:B:461:LYS:HG2	2.01	0.60
1:F:1831:CYS:HB2	1:F:1836:LEU:HD11	1.83	0.60
2:G:286:ILE:N	3:H:313:GLY:O	2.33	0.60
2:G:484:GLN:HE22	2:G:485:GLN:HE21	1.49	0.60
3:H:234:LEU:HD13	3:H:481:LYS:NZ	2.16	0.60
1:A:247:GLU:HA	1:A:250:ASN:HB2	1.82	0.60
1:A:738:HIS:HA	1:A:776:TRP:HE1	1.66	0.60
1:A:1115:HIS:HB3	1:A:1180:GLN:HG3	1.84	0.60
1:A:2120:ARG:HB3	1:A:2122:LEU:HD23	1.83	0.60
1:A:2261:SER:HA	1:A:2306:ASN:HD21	1.66	0.60
1:A:3738:ILE:O	1:A:3749:PRO:HA	2.01	0.60
2:B:403:ARG:NH1	2:B:404:ARG:HB3	2.16	0.60
1:F:66:LEU:HG	1:F:70:ARG:NH1	2.15	0.60
1:F:162:LEU:HD11	2:G:299:LYS:HB2	1.83	0.60
1:F:1017:ILE:HA	1:F:1026:ARG:HG2	1.83	0.60
1:F:1123:THR:HA	1:F:1126:GLN:HE22	1.67	0.60
1:F:2950:LYS:HB2	1:F:2953:THR:HG23	1.82	0.60
1:F:2987:THR:OG1	1:F:2988:GLU:OE1	2.20	0.60
3:H:642:PHE:HA	3:H:645:GLU:HB2	1.84	0.60
1:A:1191:PHE:HA	1:A:1194:PHE:CD2	2.36	0.60
1:A:2852:PRO:HA	1:A:2855:VAL:HG12	1.83	0.60
1:A:3029:LYS:HZ3	1:A:3031:TRP:HD1	1.50	0.60
1:F:3653:ARG:HA	1:F:3656:LEU:HD12	1.82	0.60
1:F:3882:LEU:HB3	1:F:3885:ARG:HH21	1.66	0.60
3:H:229:GLU:O	3:H:233:LYS:N	2.34	0.60
1:A:408:TYR:HE1	1:A:449:TYR:HE1	1.50	0.60
1:A:1893:GLU:H	1:A:1895:LYS:NZ	2.00	0.60
1:A:2497:GLU:HA	1:A:2500:LYS:HG2	1.84	0.60
2:B:203:MET:HE1	2:B:239:LEU:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:266:SER:N	3:C:361:VAL:O	2.21	0.60
1:F:1202:ARG:HH22	1:F:1210:ASP:HB2	1.67	0.60
1:F:3288:SER:O	1:F:3992:ARG:NH2	2.33	0.60
1:A:1924:THR:HA	1:A:1971:PRO:HG3	1.82	0.60
1:A:1954:CYS:SG	1:A:1955:VAL:N	2.75	0.60
1:A:2446:LEU:HD12	1:A:2447:LYS:H	1.66	0.60
1:A:2909:ARG:HG3	1:A:2911:ARG:H	1.67	0.60
1:A:2962:ARG:NH2	1:A:4100:GLU:OE1	2.35	0.60
2:B:459:VAL:O	2:B:463:LYS:HG2	2.02	0.60
1:F:2270:ASN:O	1:F:2274:ILE:HD12	2.01	0.60
1:F:2447:LYS:HG3	1:F:2449:VAL:HG22	1.82	0.60
1:F:3817:LEU:O	1:F:3825:LYS:NZ	2.35	0.60
2:G:388:LYS:NZ	3:H:455:ASP:OD1	2.35	0.60
3:H:412:ILE:HG23	3:H:417:GLU:HB3	1.82	0.60
1:A:70:ARG:NH1	1:A:82:ARG:HH21	1.98	0.60
1:A:193:ALA:HA	1:A:196:LEU:HD12	1.84	0.60
1:A:606:SER:HB3	1:A:1023:SER:HB3	1.83	0.60
1:A:890:LYS:N	1:A:3889:ARG:HH22	2.00	0.60
1:A:1917:LYS:HE2	3:H:725:VAL:HG22	1.82	0.60
1:A:2915:ARG:NH1	1:A:2916:LEU:O	2.33	0.60
1:A:3357:ARG:HE	1:A:3358:ARG:HH12	1.48	0.60
1:F:363:ILE:HA	1:F:366:TYR:HB2	1.83	0.60
1:F:721:TYR:O	1:F:722:LYS:NZ	2.33	0.60
1:F:1071:ASN:ND2	1:F:1073:PHE:HB2	2.16	0.60
1:F:1427:SER:HA	1:F:1430:GLU:HB2	1.83	0.60
1:F:1560:TYR:OH	1:F:1599:GLY:HA3	2.02	0.60
1:F:3988:LEU:HD23	1:F:4100:GLU:HB2	1.84	0.60
7:E:35:DT:O4	7:E:36:DA:N6	2.34	0.60
1:A:1182:GLU:OE1	1:A:1182:GLU:N	2.32	0.60
1:A:1696:LEU:O	1:A:1699:PHE:N	2.34	0.60
1:A:1776:GLU:HA	1:A:1779:GLN:NE2	2.17	0.60
1:A:2908:LYS:O	1:A:2915:ARG:NH2	2.35	0.60
1:A:3036:TYR:HB3	1:A:3040:TYR:HE2	1.66	0.60
2:B:486:HIS:O	2:B:490:LEU:HG	2.01	0.60
1:F:888:ARG:HH11	1:F:3890:MET:HB3	1.66	0.60
1:F:1755:SER:HB3	1:F:1758:LEU:HD13	1.83	0.60
1:F:4013:TRP:HZ2	1:F:4034:ALA:H	1.50	0.60
3:H:81:ARG:NH2	3:H:85:LEU:O	2.35	0.60
1:A:462:VAL:HG21	1:A:540:MET:HG2	1.83	0.59
1:A:1340:ARG:NH1	1:A:1343:GLU:OE1	2.35	0.59
1:A:3387:GLU:O	1:A:3390:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HG3	1:A:3475:TYR:CD1	2.37	0.59
1:A:3511:ALA:HB1	1:A:3514:VAL:HG22	1.84	0.59
1:F:242:PRO:O	1:F:246:ARG:HG2	2.01	0.59
1:F:1327:GLY:HA2	1:F:1330:TYR:HB3	1.84	0.59
1:F:1807:LYS:O	1:F:1816:ARG:NH1	2.30	0.59
1:F:3714:GLU:O	1:F:3718:ARG:NH2	2.31	0.59
1:F:3809:THR:HA	1:F:3931:ALA:HA	1.82	0.59
6:D:36:DG:H1	7:E:21:DA:H5'	1.67	0.59
1:A:369:PHE:HA	1:A:372:PRO:HG2	1.84	0.59
1:A:1933:LEU:HB3	1:A:1935:GLU:HG2	1.84	0.59
1:A:2574:ASN:HB2	1:A:2787:HIS:HD2	1.66	0.59
1:A:3033:GLU:OE1	1:A:3033:GLU:N	2.25	0.59
2:B:76:ILE:HD13	2:B:248:ALA:HA	1.84	0.59
2:B:299:LYS:HB3	3:C:294:VAL:O	2.01	0.59
3:C:352:GLN:HB3	3:C:355:PHE:HB2	1.84	0.59
1:F:1828:LEU:HB3	1:F:1879:VAL:HG11	1.84	0.59
1:F:1878:ASP:OD1	1:F:1879:VAL:N	2.35	0.59
1:F:3884:LYS:NZ	1:F:3969:ASN:O	2.32	0.59
2:G:318:ARG:HH21	3:H:278:VAL:HG22	1.66	0.59
3:H:7:LYS:HD2	3:H:125:LYS:HZ1	1.67	0.59
3:H:261:ILE:HD12	3:H:364:VAL:HG11	1.82	0.59
3:H:489:ARG:NH1	3:H:492:GLN:OE1	2.35	0.59
1:A:528:VAL:HG23	1:A:633:ILE:HG12	1.85	0.59
1:A:677:ALA:O	1:A:681:LYS:N	2.35	0.59
1:A:1801:VAL:O	1:A:1805:PHE:N	2.35	0.59
1:A:2154:GLU:OE1	1:A:2154:GLU:N	2.31	0.59
1:A:3797:THR:HG22	1:A:3798:SER:H	1.65	0.59
1:A:3825:LYS:O	1:A:3830:SER:N	2.27	0.59
1:A:3852:VAL:HA	1:A:3855:TYR:HE1	1.67	0.59
2:B:179:ASP:OD1	2:B:182:LYS:NZ	2.34	0.59
3:C:676:GLU:OE1	3:C:676:GLU:N	2.33	0.59
1:F:272:LEU:HD23	1:F:312:ALA:HA	1.83	0.59
1:F:1310:GLU:OE1	1:F:1310:GLU:N	2.34	0.59
1:F:3049:LEU:HA	1:F:3052:LEU:HD12	1.84	0.59
2:G:485:GLN:HE22	2:G:502:GLN:HA	1.68	0.59
1:A:959:TYR:HA	1:A:962:TYR:CD2	2.31	0.59
1:A:990:GLN:HE22	1:A:2779:ASP:HA	1.67	0.59
1:A:1202:ARG:HE	1:A:1207:TRP:HA	1.67	0.59
1:A:2528:GLU:OE1	1:A:2528:GLU:N	2.29	0.59
1:A:2939:LEU:HA	1:A:2942:ILE:CG2	2.32	0.59
1:A:3882:LEU:HD13	1:A:3885:ARG:HH21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:491:CYS:O	1:F:625:ASN:ND2	2.35	0.59
1:F:1271:ILE:O	1:F:1274:ARG:NH1	2.35	0.59
1:F:1555:HIS:HB3	1:F:1559:PHE:CZ	2.37	0.59
1:F:2258:GLU:OE1	1:F:2259:LYS:HD3	2.02	0.59
1:F:3113:ASN:O	1:F:3117:ILE:HD12	2.02	0.59
3:H:655:PHE:HE2	3:H:688:LYS:HB3	1.67	0.59
4:J:37:DG:N1	5:I:20:DT:O2	2.20	0.59
6:D:35:DT:N3	7:E:21:DA:N1	2.48	0.59
1:A:675:ARG:O	1:A:678:LYS:HB3	2.02	0.59
1:A:899:ARG:HD2	1:A:2569:SER:HA	1.84	0.59
1:A:2277:LEU:HA	1:A:2280:VAL:HG12	1.84	0.59
1:A:2297:SER:O	1:A:2301:GLN:NE2	2.29	0.59
1:A:3815:LEU:O	1:A:3819:THR:OG1	2.20	0.59
1:F:1602:ASP:O	1:F:1606:ARG:N	2.33	0.59
1:F:1809:ASP:OD2	1:F:1811:ARG:NH2	2.35	0.59
1:F:3627:ALA:HA	1:F:3630:ARG:HB3	1.85	0.59
1:A:152:LEU:HD13	1:A:155:LYS:NZ	2.17	0.59
1:A:2826:LEU:HA	1:A:2829:LYS:HD2	1.85	0.59
1:F:397:LEU:HD11	1:F:438:LEU:HB3	1.83	0.59
1:F:493:LYS:NZ	1:F:523:THR:HA	2.17	0.59
1:F:1150:LYS:NZ	1:F:1161:ALA:O	2.30	0.59
1:F:2970:LYS:HE2	1:F:2970:LYS:HA	1.83	0.59
3:H:456:ALA:HB3	3:H:533:ILE:HD11	1.85	0.59
1:A:340:TYR:O	1:A:343:GLU:N	2.36	0.59
1:A:400:THR:HG22	1:A:6023:UNK:HA	1.83	0.59
1:A:741:ILE:HG23	1:A:748:TYR:HD2	1.67	0.59
1:A:1319:GLY:N	1:A:1322:THR:O	2.35	0.59
1:A:3298:LEU:HD13	1:A:3337:ILE:HA	1.85	0.59
1:A:3901:ARG:HH12	1:A:3970:LEU:HA	1.67	0.59
2:B:297:LYS:HE3	3:C:296:CYS:SG	2.43	0.59
1:F:170:VAL:HG12	1:F:216:LYS:HG3	1.82	0.59
1:F:485:GLN:HA	1:F:488:ILE:HD12	1.85	0.59
1:F:1102:GLU:HG2	1:F:1152:ARG:HG3	1.84	0.59
1:F:1182:GLU:HA	1:F:1185:HIS:HB2	1.85	0.59
2:G:416:GLN:OE1	3:H:354:ARG:NH2	2.36	0.59
3:H:352:GLN:OE1	3:H:354:ARG:NH2	2.29	0.59
4:J:28:DA:C2	5:I:29:DA:C2	2.90	0.59
1:A:1498:GLN:HA	1:A:1541:ALA:HB3	1.84	0.59
3:C:411:HIS:N	3:C:418:CYS:O	2.36	0.59
1:F:217:LEU:HA	1:F:220:LEU:HD12	1.85	0.59
1:F:1149:LYS:HB2	1:F:1151:ARG:NH1	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3554:PHE:O	1:F:3557:ARG:NH1	2.36	0.59
1:A:19:LEU:HD11	1:A:37:GLY:HA3	1.83	0.59
1:A:151:GLU:OE1	1:A:151:GLU:N	2.36	0.59
1:A:449:TYR:HB3	1:A:453:MET:HG2	1.85	0.59
1:A:2443:MET:HE1	1:A:2476:ILE:HA	1.85	0.59
1:F:135:LEU:HA	1:F:138:PHE:CD2	2.38	0.59
1:F:1191:PHE:HA	1:F:1194:PHE:CD2	2.37	0.59
1:F:1560:TYR:CZ	1:F:1596:VAL:HA	2.38	0.59
1:F:2825:THR:O	1:F:2829:LYS:HG3	2.02	0.59
3:H:16:VAL:HG22	3:H:101:GLY:H	1.67	0.59
1:A:111:CYS:HB2	1:A:130:LEU:HD22	1.84	0.59
1:A:188:GLU:HA	1:A:191:ASN:HB2	1.84	0.59
1:A:968:VAL:HA	1:A:971:ARG:HB2	1.85	0.59
1:A:1560:TYR:OH	1:A:1599:GLY:HA3	2.03	0.59
1:A:2794:LEU:HA	1:A:2797:VAL:HG12	1.85	0.59
1:A:2887:PRO:HG2	1:A:3895:GLU:HG3	1.84	0.59
1:A:4101:GLU:O	1:A:4104:VAL:HG22	2.02	0.59
2:B:269:ILE:HA	2:B:375:VAL:HG11	1.85	0.59
1:F:1238:GLN:HB2	1:F:1245:ARG:HH21	1.67	0.59
1:F:1735:ARG:HH12	1:F:1736:PHE:HB2	1.67	0.59
1:F:2098:THR:O	1:F:2102:LYS:HG2	2.03	0.59
1:F:2897:LEU:HD21	1:F:2923:TRP:CZ2	2.38	0.59
1:F:3086:LEU:HD12	1:F:3089:LEU:HD12	1.84	0.59
1:F:3735:PRO:HB2	1:F:3751:LEU:HD11	1.84	0.59
2:G:371:GLU:O	2:G:373:SER:N	2.35	0.59
2:G:429:PRO:HG3	3:H:435:PHE:HA	1.84	0.59
1:A:979:VAL:O	1:A:983:LEU:N	2.36	0.58
1:A:1820:VAL:HG23	1:A:1824:LEU:HB2	1.85	0.58
1:A:1921:ASP:OD1	1:A:1922:ALA:N	2.36	0.58
1:A:2357:GLU:HG2	1:A:2358:ASP:N	2.17	0.58
2:B:413:LEU:HD11	2:B:432:PHE:HB3	1.85	0.58
2:B:433:GLN:NE2	3:C:354:ARG:HG2	2.17	0.58
1:F:1171:TRP:O	1:F:1175:HIS:ND1	2.36	0.58
1:F:2452:ARG:HA	1:F:2455:LEU:HD12	1.84	0.58
1:F:2993:PHE:HA	1:F:2996:LEU:HD12	1.84	0.58
1:F:3059:GLN:O	1:F:3063:THR:N	2.28	0.58
1:F:3263:HIS:HB2	1:F:3276:TRP:CE2	2.38	0.58
1:F:3576:ASP:OD1	1:F:3579:SER:OG	2.21	0.58
2:G:111:PRO:O	3:H:318:SER:CB	2.51	0.58
2:G:125:GLN:O	2:G:128:GLN:HG3	2.03	0.58
1:A:770:LEU:O	1:A:773:LEU:HG	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3470:GLN:O	1:A:3474:ARG:HG2	2.03	0.58
2:B:83:LEU:N	2:B:109:ASP:O	2.31	0.58
3:C:280:ASP:OD1	3:C:281:ALA:N	2.36	0.58
1:F:1407:LYS:HA	1:F:1412:LYS:HB2	1.84	0.58
1:F:3354:ASP:H	1:F:3357:ARG:NH2	1.99	0.58
2:G:85:VAL:HG22	2:G:106:GLN:NE2	2.18	0.58
3:H:496:HIS:CE1	3:H:503:GLU:HB3	2.37	0.58
1:A:332:GLU:O	1:A:335:LYS:NZ	2.29	0.58
1:A:1499:CYS:HG	1:A:1549:SER:N	2.01	0.58
1:A:1734:PRO:HD2	3:C:580:SER:HB2	1.86	0.58
1:A:2117:SER:N	1:A:2120:ARG:O	2.36	0.58
1:A:3913:ILE:O	1:A:3917:ILE:HD12	2.03	0.58
1:F:246:ARG:HA	1:F:249:PHE:CD2	2.38	0.58
1:F:573:LEU:HD11	1:F:649:PHE:CD1	2.38	0.58
1:F:982:GLN:HE22	1:F:2592:ASP:H	1.51	0.58
1:F:1035:GLU:HA	1:F:1038:LYS:HG2	1.83	0.58
1:F:1220:LEU:HD13	1:F:1285:GLU:HG3	1.85	0.58
1:F:2300:PHE:HA	1:F:2303:LEU:HD12	1.85	0.58
1:F:2453:GLU:OE1	1:F:2453:GLU:N	2.35	0.58
1:F:3130:GLN:O	1:F:3133:GLN:NE2	2.35	0.58
1:F:3298:LEU:HD22	1:F:3337:ILE:HD11	1.83	0.58
6:D:15:DA:H5'	7:E:42:DA:H2	1.67	0.58
1:A:103:TYR:O	1:A:107:ILE:HG12	2.04	0.58
1:A:138:PHE:HE1	1:A:146:GLU:HA	1.67	0.58
1:A:1814:PHE:HA	1:A:1817:GLN:NE2	2.18	0.58
2:B:286:ILE:N	3:C:312:GLN:OE1	2.36	0.58
2:B:416:GLN:HB3	2:B:431:GLY:N	2.17	0.58
1:F:1135:CYS:HA	1:F:1138:ILE:HG22	1.86	0.58
1:F:1781:SER:HA	1:F:1784:ARG:HH12	1.68	0.58
1:F:2130:HIS:CD2	1:F:2167:PRO:HG3	2.39	0.58
1:F:2263:LYS:HG2	1:F:2309:PHE:HZ	1.69	0.58
1:F:2371:PHE:CZ	1:F:2373:PRO:HG2	2.38	0.58
1:F:3052:LEU:HD23	1:F:3056:GLU:HB3	1.85	0.58
2:G:297:LYS:O	3:H:295:TYR:HA	2.02	0.58
6:D:32:DT:H2''	6:D:33:DA:C8	2.39	0.58
1:A:99:LYS:HZ3	1:A:144:MET:H	1.51	0.58
1:A:268:PRO:O	1:A:271:GLY:N	2.37	0.58
1:A:483:VAL:O	1:A:487:LEU:HG	2.02	0.58
1:A:518:LYS:NZ	1:A:519:TRP:O	2.35	0.58
1:A:1087:ARG:HA	1:A:1090:ARG:HE	1.67	0.58
1:A:1686:LEU:HD23	1:A:1738:ASN:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2228:ARG:HA	1:A:2231:PHE:HB3	1.84	0.58
1:A:2771:LEU:HB3	1:A:2775:TYR:HE2	1.67	0.58
2:B:296:VAL:HB	3:C:296:CYS:O	2.04	0.58
2:B:469:LEU:HB3	2:B:518:LEU:HD12	1.86	0.58
3:C:384:LEU:HB2	3:C:389:MET:HB3	1.86	0.58
1:F:100:ILE:HG23	1:F:104:SER:HB3	1.86	0.58
1:F:1251:GLN:NE2	1:F:1255:CYS:SG	2.76	0.58
1:F:1293:ALA:HA	1:F:1296:PHE:CD2	2.38	0.58
1:F:1519:PHE:CD1	1:F:1570:GLU:HG2	2.39	0.58
1:F:1935:GLU:HA	1:F:1938:ARG:HG2	1.86	0.58
1:F:2310:VAL:HA	1:F:2316:TYR:CE2	2.39	0.58
1:F:3761:ASP:HA	1:F:3764:VAL:HG22	1.84	0.58
1:A:888:ARG:NH2	1:A:3889:ARG:O	2.32	0.58
1:A:1576:ASP:HA	1:A:1579:VAL:HG12	1.84	0.58
1:A:2295:GLN:HE21	1:A:2298:GLU:CD	2.06	0.58
1:A:2981:TRP:N	1:A:2985:GLU:OE2	2.37	0.58
1:A:3267:LYS:HA	1:A:3273:LEU:HD21	1.86	0.58
1:A:3884:LYS:NZ	1:A:3969:ASN:O	2.28	0.58
1:F:1912:THR:HA	1:F:1915:LEU:HD23	1.85	0.58
1:A:665:GLY:HA2	1:A:668:LYS:HE2	1.85	0.58
1:A:1063:LEU:HD11	1:A:1078:ALA:HA	1.85	0.58
1:A:1212:LEU:O	1:A:1216:GLY:N	2.37	0.58
1:A:1453:SER:O	1:A:1457:GLN:NE2	2.37	0.58
1:A:1526:GLU:OE1	1:A:1526:GLU:N	2.29	0.58
3:C:395:TYR:O	3:C:404:GLN:N	2.28	0.58
3:C:605:LYS:HZ3	3:C:611:GLU:HG2	1.68	0.58
1:F:1041:ILE:HA	1:F:1044:ILE:HB	1.86	0.58
1:F:1696:LEU:HA	1:F:1699:PHE:HD2	1.68	0.58
1:F:2421:VAL:O	1:F:2425:ARG:N	2.32	0.58
1:F:3335:ARG:HH21	1:F:3419:PHE:HA	1.69	0.58
2:G:412:ALA:N	2:G:435:VAL:O	2.36	0.58
1:A:833:HIS:HA	1:A:836:LYS:NZ	2.19	0.58
1:A:1444:ASP:HA	1:A:1447:ARG:HE	1.69	0.58
1:A:2287:PRO:HD3	1:A:2329:TYR:CZ	2.39	0.58
1:A:2405:VAL:HG21	1:A:2441:LYS:HB3	1.85	0.58
1:A:3901:ARG:NH2	1:A:3970:LEU:O	2.36	0.58
2:B:72:ILE:HA	2:B:75:ILE:HD12	1.86	0.58
2:B:429:PRO:HG3	3:C:435:PHE:H	1.68	0.58
3:C:395:TYR:CD1	3:C:404:GLN:HB2	2.39	0.58
1:F:146:GLU:HG3	1:F:147:PHE:CD2	2.39	0.58
1:F:1202:ARG:HB2	1:F:1207:TRP:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1629:CYS:O	1:F:1633:TRP:NE1	2.36	0.58
1:F:1971:PRO:O	1:F:1973:LYS:N	2.36	0.58
1:F:4085:LYS:NZ	1:F:4092:GLN:OE1	2.37	0.58
3:H:181:GLY:N	3:H:521:GLU:OE2	2.36	0.58
3:H:390:VAL:HG12	3:H:409:PHE:HE1	1.69	0.58
5:I:35:DT:O4	5:I:36:DA:N6	2.36	0.58
1:A:194:GLU:HG2	1:A:195:ASN:N	2.19	0.58
1:A:767:GLU:O	1:A:770:LEU:HB3	2.04	0.58
1:A:2300:PHE:HA	1:A:2303:LEU:HD12	1.85	0.58
1:A:3252:PHE:HA	1:A:3283:LEU:HD11	1.86	0.58
1:A:3729:MET:HE3	1:A:3737:ARG:CB	2.34	0.58
1:F:225:LYS:HD3	1:F:271:GLY:H	1.67	0.58
1:F:256:ILE:HG23	1:F:257:ARG:HG2	1.86	0.58
1:F:1696:LEU:O	1:F:1699:PHE:N	2.34	0.58
1:F:1894:SER:HB3	1:F:1911:LEU:HD11	1.86	0.58
3:H:341:SER:O	3:H:394:ARG:N	2.32	0.58
1:A:350:ARG:NE	3:C:579:SER:O	2.34	0.58
1:A:857:GLN:H	1:A:857:GLN:CD	2.07	0.58
1:A:1860:GLU:HG3	1:A:1862:THR:H	1.69	0.58
1:A:2273:GLY:O	1:A:2277:LEU:HG	2.03	0.58
1:A:2527:HIS:ND1	1:A:2529:THR:HG23	2.19	0.58
1:A:2935:GLU:O	1:A:2939:LEU:HG	2.03	0.58
1:A:3915:HIS:HA	1:A:3920:ILE:HD13	1.85	0.58
1:F:1326:GLU:HG3	1:F:1329:ARG:HH22	1.69	0.58
1:F:3018:SER:O	1:F:3037:GLN:NE2	2.36	0.58
3:H:53:GLU:HB2	3:H:83:LEU:HD12	1.86	0.58
4:J:19:DA:H1'	4:J:20:DT:H5'	1.85	0.58
1:A:242:PRO:O	1:A:246:ARG:HG3	2.04	0.57
1:F:435:LEU:O	1:F:439:VAL:HG23	2.04	0.57
1:F:718:MET:O	1:F:721:TYR:N	2.30	0.57
1:F:1039:TRP:HD1	1:F:1042:LYS:HB2	1.69	0.57
1:F:3463:LEU:HA	1:F:3498:TRP:HZ2	1.69	0.57
5:I:26:DA:H1'	5:I:27:DC:H5'	1.84	0.57
1:A:2219:LEU:O	1:A:2223:VAL:HG13	2.04	0.57
1:A:3063:THR:O	1:A:3067:LYS:HG2	2.04	0.57
2:B:91:GLU:HG3	2:B:135:MET:SD	2.45	0.57
1:F:1506:SER:O	1:F:1510:LEU:HG	2.04	0.57
1:F:3964:THR:HG22	1:F:3967:PHE:CD2	2.39	0.57
1:A:899:ARG:H	1:A:899:ARG:HD3	1.69	0.57
1:A:2850:PHE:HD2	1:A:2882:ALA:HB3	1.69	0.57
2:B:388:LYS:HD2	2:B:391:GLU:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1060:PHE:HD1	1:F:1063:LEU:HD12	1.68	0.57
1:F:2269:ASP:OD1	1:F:2270:ASN:N	2.37	0.57
2:G:419:GLU:HG2	2:G:427:VAL:HG23	1.85	0.57
3:H:295:TYR:CD2	3:H:307:LYS:HA	2.39	0.57
1:A:237:SER:O	1:A:243:GLN:HG2	2.04	0.57
1:A:310:LYS:HG3	1:A:311:ALA:H	1.69	0.57
1:A:2169:LEU:O	1:A:2173:ALA:HB2	2.04	0.57
1:A:3413:TYR:HA	1:A:3449:LYS:HZ3	1.68	0.57
1:A:3508:LYS:HZ1	1:A:3540:TYR:N	2.02	0.57
1:A:3533:PHE:O	1:A:3537:SER:N	2.37	0.57
1:A:3834:ALA:HB3	1:A:3835:PRO:HD3	1.87	0.57
1:F:19:LEU:HD22	1:F:34:LEU:HA	1.86	0.57
1:F:387:GLU:HB2	1:F:391:ARG:NH1	2.18	0.57
1:F:1142:HIS:CD2	1:F:1146:ASN:HD21	2.23	0.57
1:F:1574:ASN:OD1	1:F:1575:LEU:N	2.37	0.57
1:F:2497:GLU:HA	1:F:2500:LYS:HG2	1.86	0.57
1:F:4006:VAL:HG23	1:F:4011:PHE:HD2	1.70	0.57
3:H:93:ASP:HA	3:H:97:LYS:HE2	1.87	0.57
1:A:17:GLU:HA	1:A:20:SER:HG	1.69	0.57
1:A:36:ARG:O	1:A:40:GLN:NE2	2.37	0.57
1:A:1149:LYS:N	1:A:1163:LEU:O	2.36	0.57
1:A:3847:SER:HA	1:A:3857:LEU:HD22	1.86	0.57
3:C:279:VAL:HB	3:C:285:LYS:N	2.18	0.57
1:F:891:ARG:N	1:F:908:ASP:OD2	2.38	0.57
1:F:1087:ARG:HA	1:F:1090:ARG:NE	2.18	0.57
1:F:1637:SER:O	1:F:1642:LYS:NZ	2.37	0.57
1:F:2228:ARG:HA	1:F:2232:ARG:NH1	2.19	0.57
1:F:2414:GLN:O	1:F:2418:LYS:HG3	2.03	0.57
1:F:2845:ASN:OD1	1:F:2846:THR:N	2.37	0.57
2:G:487:PHE:O	2:G:491:GLU:HG3	2.03	0.57
3:H:41:PHE:O	3:H:44:ARG:HG2	2.05	0.57
3:H:651:GLU:OE2	3:H:654:ARG:NH1	2.38	0.57
1:A:1149:LYS:O	1:A:1163:LEU:N	2.33	0.57
1:A:1474:ASP:O	1:A:1476:HIS:ND1	2.37	0.57
1:A:1733:THR:HG23	1:A:1736:PHE:H	1.69	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CE2	2.39	0.57
1:A:3781:CYS:O	1:A:3785:ALA:N	2.37	0.57
1:A:3781:CYS:SG	1:A:3786:LEU:HB2	2.44	0.57
1:A:3814:ASP:OD1	1:A:3815:LEU:N	2.36	0.57
1:A:4073:ALA:HB1	1:A:4076:ASP:HB2	1.87	0.57
1:F:303:HIS:HE1	1:F:308:LEU:HD13	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:888:ARG:HH22	1:F:3886:ALA:HA	1.70	0.57
1:F:3089:LEU:O	1:F:3093:GLN:NE2	2.38	0.57
2:G:343:PRO:HG3	2:G:403:ARG:HA	1.85	0.57
1:A:339:GLN:HE22	3:C:570:GLU:HA	1.69	0.57
1:A:339:GLN:NE2	3:C:570:GLU:OE1	2.38	0.57
1:A:749:VAL:O	1:A:752:LEU:HG	2.03	0.57
1:A:935:HIS:NE2	1:A:987:LEU:HD13	2.20	0.57
1:A:1278:ALA:O	1:A:1282:LEU:N	2.37	0.57
1:A:1356:TRP:NE1	1:A:1358:LEU:O	2.36	0.57
1:A:1424:THR:OG1	1:A:1427:SER:N	2.36	0.57
1:A:2574:ASN:H	1:A:2787:HIS:H	1.52	0.57
1:A:2912:GLY:HA3	1:A:2916:LEU:HG	1.85	0.57
1:A:3745:GLU:O	1:A:3746:ARG:NH1	2.37	0.57
1:A:3791:TYR:HB2	1:A:3804:GLU:OE2	2.05	0.57
1:A:4046:TYR:HB3	1:A:4050:LYS:NZ	2.19	0.57
1:A:4116:ILE:HD12	1:A:4119:ARG:HB2	1.85	0.57
2:B:75:ILE:HG12	2:B:111:PRO:HB3	1.87	0.57
2:B:90:THR:HB	2:B:103:TYR:HB2	1.86	0.57
3:C:138:LEU:HB3	3:C:201:GLN:HB3	1.86	0.57
1:F:475:LEU:HD22	1:F:476:ARG:HD2	1.87	0.57
1:F:554:ASN:C	1:F:554:ASN:HD22	2.06	0.57
1:F:924:ARG:H	1:F:927:LYS:HZ1	1.51	0.57
1:F:925:GLN:NE2	1:F:2768:GLN:O	2.37	0.57
1:F:2312:TYR:CD2	1:F:2315:VAL:HG23	2.38	0.57
1:F:2824:LYS:O	1:F:2829:LYS:NZ	2.38	0.57
1:A:386:VAL:HA	1:A:389:ILE:HD12	1.86	0.57
1:A:1358:LEU:HA	1:A:1361:LYS:HZ3	1.68	0.57
1:A:1845:VAL:HA	1:A:1848:ILE:HG12	1.87	0.57
1:A:1896:ILE:HA	1:A:1898:GLN:HE22	1.70	0.57
1:A:3410:ILE:HA	1:A:3413:TYR:HB2	1.86	0.57
1:A:3420:CYS:HB3	1:A:3446:VAL:HG12	1.86	0.57
2:B:299:LYS:HE3	2:B:301:ARG:HB2	1.86	0.57
1:F:265:TYR:HH	1:F:303:HIS:CG	2.22	0.57
1:F:340:TYR:HA	1:F:343:GLU:HG3	1.87	0.57
1:F:353:ASP:OD1	1:F:354:SER:N	2.36	0.57
1:F:993:HIS:ND1	1:F:2779:ASP:OD1	2.38	0.57
1:F:1574:ASN:HD21	1:F:1577:LEU:HB2	1.70	0.57
1:F:2394:LYS:HB2	1:F:2431:ARG:NH1	2.20	0.57
1:F:3833:ARG:HB2	1:F:4127:TRP:CZ2	2.40	0.57
2:G:63:SER:O	2:G:67:ILE:HG12	2.04	0.57
1:A:138:PHE:O	1:A:142:ARG:HD2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:LEU:HB3	1:A:156:PHE:CE2	2.40	0.57
1:A:1241:LEU:HD21	1:A:1296:PHE:CE2	2.40	0.57
1:A:1564:SER:O	1:A:1568:ASN:ND2	2.38	0.57
1:A:3228:SER:HA	1:A:3231:ILE:HD12	1.87	0.57
1:F:397:LEU:HD13	1:F:441:MET:HE3	1.86	0.57
1:F:1304:HIS:CG	1:F:1309:ALA:HB2	2.40	0.57
1:F:2295:GLN:HG2	1:F:2298:GLU:OE2	2.05	0.57
1:F:2563:LEU:HD13	1:F:2795:GLN:HB3	1.85	0.57
2:G:125:GLN:O	2:G:129:LYS:HG3	2.05	0.57
2:G:484:GLN:HA	2:G:487:PHE:HD2	1.69	0.57
3:H:210:MET:HA	3:H:213:ILE:HG12	1.85	0.57
1:A:332:GLU:HG2	1:A:333:MET:SD	2.45	0.57
1:A:1205:ASN:O	1:A:1209:LYS:HG2	2.05	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CD2	2.39	0.57
1:A:2285:LEU:HD12	1:A:2286:PRO:HD2	1.87	0.57
1:A:2446:LEU:HD12	1:A:2447:LYS:N	2.20	0.57
1:A:2967:GLU:O	1:A:2971:GLN:HG2	2.05	0.57
1:A:3269:ARG:HB2	1:A:3272:TRP:CD2	2.39	0.57
2:B:289:TYR:HD2	2:B:292:THR:H	1.52	0.57
1:F:528:VAL:HG12	1:F:629:PHE:CD1	2.40	0.57
1:F:1897:ASN:HD22	1:F:1911:LEU:HG	1.69	0.57
1:F:3829:LEU:HB3	1:F:3833:ARG:HH21	1.70	0.57
2:G:86:VAL:HG13	2:G:104:VAL:HA	1.87	0.57
2:G:206:LYS:HG2	2:G:207:LYS:H	1.70	0.57
2:G:270:SER:H	2:G:375:VAL:HB	1.70	0.57
2:G:302:THR:OG1	3:H:289:ILE:HG23	2.05	0.57
2:G:320:GLN:NE2	3:H:276:TRP:HA	2.19	0.57
2:G:362:LEU:HD22	2:G:363:ARG:HH22	1.70	0.57
3:H:602:VAL:HA	3:H:609:PHE:CD2	2.39	0.57
6:D:19:DA:C2	6:D:20:DT:C2	2.93	0.57
1:A:13:LEU:HD13	1:A:59:PHE:HD1	1.70	0.56
1:A:163:LYS:HB3	2:B:313:PRO:HB3	1.87	0.56
1:A:339:GLN:HB3	3:C:572:GLY:HA3	1.86	0.56
1:A:1359:LEU:H	1:A:1361:LYS:HZ2	1.53	0.56
1:A:1674:THR:O	1:A:1677:SER:OG	2.22	0.56
1:A:2881:LEU:HA	1:A:2886:GLN:NE2	2.20	0.56
1:A:2954:GLN:HA	1:A:2957:LEU:HB3	1.87	0.56
1:A:2973:ASP:OD1	1:A:2974:GLU:N	2.37	0.56
1:A:3315:TYR:O	1:A:3319:ASN:N	2.38	0.56
2:B:375:VAL:HG13	3:C:541:GLU:HG3	1.85	0.56
3:C:31:PHE:CE2	3:C:100:PRO:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:378:SER:O	3:C:382:HIS:ND1	2.38	0.56
1:F:153:PHE:HD1	1:F:178:LEU:HD11	1.69	0.56
1:F:293:LEU:O	1:F:297:LEU:HD23	2.05	0.56
1:F:663:ILE:HG22	1:F:665:GLY:H	1.70	0.56
1:F:2348:GLN:HA	1:F:2351:GLN:HG2	1.85	0.56
1:F:2586:PHE:CB	1:F:2776:ARG:HE	2.18	0.56
1:F:3005:LEU:HD23	1:F:3254:LEU:HD13	1.86	0.56
1:F:3125:ARG:O	1:F:3129:LEU:HG	2.05	0.56
1:F:3319:ASN:O	1:F:3322:ALA:N	2.38	0.56
2:G:459:VAL:HG12	2:G:463:LYS:HE2	1.87	0.56
3:H:408:ALA:HB1	3:H:419:LEU:HD12	1.87	0.56
1:A:386:VAL:O	1:A:390:GLN:NE2	2.38	0.56
1:A:734:LEU:HD13	1:A:768:VAL:HG23	1.87	0.56
3:C:381:ILE:HG21	3:C:417:GLU:HB2	1.86	0.56
1:F:1795:VAL:HA	1:F:1798:LEU:HG	1.87	0.56
1:F:1826:THR:O	1:F:1830:HIS:N	2.35	0.56
1:F:2258:GLU:O	1:F:2261:SER:OG	2.21	0.56
1:F:3530:VAL:O	1:F:3534:ILE:HG12	2.05	0.56
1:F:3859:TYR:HB3	1:F:4077:TYR:HE1	1.69	0.56
3:H:645:GLU:HA	3:H:648:LYS:HE2	1.87	0.56
4:J:21:DA:H1'	4:J:22:DG:C8	2.39	0.56
1:A:363:ILE:HA	1:A:366:TYR:HD2	1.69	0.56
1:A:454:GLN:HA	1:A:457:CYS:HB2	1.88	0.56
1:A:623:PHE:O	1:A:626:LEU:HG	2.06	0.56
1:A:703:CYS:HB2	1:A:707:PHE:CZ	2.40	0.56
1:A:957:PRO:HB3	1:A:1004:GLN:HG3	1.86	0.56
1:A:997:ASN:ND2	1:A:1000:LYS:H	2.02	0.56
1:A:1154:PRO:HG2	1:A:1157:PHE:HD2	1.69	0.56
1:A:1444:ASP:O	1:A:1447:ARG:HG2	2.05	0.56
1:A:3263:HIS:O	1:A:3267:LYS:N	2.38	0.56
1:A:3263:HIS:HA	1:A:3266:SER:HB3	1.87	0.56
1:A:3729:MET:O	1:A:3734:ARG:HA	2.06	0.56
1:A:3831:ASP:HB3	1:A:3835:PRO:HG2	1.87	0.56
3:C:59:PHE:HB3	3:C:110:ALA:HB2	1.87	0.56
3:C:496:HIS:CE1	3:C:506:PRO:HA	2.40	0.56
1:F:468:LEU:HD21	1:F:478:CYS:HB2	1.88	0.56
1:F:562:HIS:CE1	1:F:563:LEU:HG	2.41	0.56
1:F:1738:ASN:HA	1:F:1741:ASP:HB2	1.87	0.56
1:F:2324:GLY:HA2	1:F:2367:VAL:HG23	1.87	0.56
1:F:3360:LEU:O	1:F:3364:GLY:N	2.39	0.56
1:F:3658:ASP:OD1	1:F:3659:PHE:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:6009:UNK:O	1:F:6013:UNK:N	2.38	0.56
2:G:34:GLY:HA2	2:G:160:LYS:HG3	1.86	0.56
3:H:305:VAL:O	3:H:307:LYS:NZ	2.34	0.56
3:H:663:GLN:O	3:H:666:VAL:HG12	2.05	0.56
7:E:32:DA:H2''	7:E:33:DA:N7	2.20	0.56
7:E:34:DC:H2''	7:E:35:DT:C6	2.40	0.56
1:A:1338:VAL:HA	1:A:1341:ILE:HD12	1.87	0.56
1:A:1515:LEU:HD11	1:A:1566:THR:HB	1.86	0.56
1:A:2184:TYR:O	1:A:2187:VAL:HG22	2.06	0.56
1:A:2332:GLU:O	1:A:2334:LYS:N	2.37	0.56
1:F:360:SER:O	1:F:364:ARG:HG3	2.04	0.56
1:F:1056:THR:HA	1:F:1059:LEU:HD12	1.88	0.56
1:F:3904:PHE:CE1	1:F:3937:VAL:HB	2.41	0.56
1:F:4100:GLU:O	1:F:4104:VAL:HG23	2.06	0.56
2:G:273:ILE:N	2:G:273:ILE:HD12	2.20	0.56
3:H:118:ILE:O	3:H:122:THR:HG23	2.05	0.56
1:A:760:LEU:HD11	1:A:799:TYR:N	2.20	0.56
1:A:1142:HIS:O	1:A:1146:ASN:N	2.38	0.56
1:A:2190:VAL:HA	1:A:2193:ILE:HD12	1.87	0.56
1:A:3673:ASP:OD1	1:A:3673:ASP:N	2.37	0.56
1:A:3724:GLU:HB2	1:A:3741:ARG:HH22	1.71	0.56
1:A:6007:UNK:O	1:A:6011:UNK:N	2.39	0.56
3:C:655:PHE:CZ	3:C:659:LEU:HD11	2.40	0.56
1:F:238:MET:SD	1:F:282:PHE:HA	2.45	0.56
1:F:256:ILE:HD13	3:H:554:PHE:HA	1.87	0.56
1:F:493:LYS:HZ1	1:F:523:THR:HA	1.70	0.56
1:F:934:LEU:HA	1:F:937:MET:HE3	1.87	0.56
1:F:972:LEU:HB3	1:F:984:TYR:OH	2.05	0.56
1:F:2190:VAL:HA	1:F:2193:ILE:HD12	1.87	0.56
1:F:2429:ASP:OD1	1:F:2430:GLU:N	2.38	0.56
1:F:2887:PRO:HA	1:F:2890:ILE:HB	1.86	0.56
1:A:2434:VAL:O	1:A:2438:ILE:HG12	2.06	0.56
3:C:615:GLN:N	3:C:615:GLN:OE1	2.38	0.56
1:F:202:GLY:O	1:F:206:THR:OG1	2.22	0.56
1:F:1038:LYS:HB2	1:F:1042:LYS:HE2	1.88	0.56
1:F:1769:GLU:H	1:F:1772:HIS:CE1	2.23	0.56
1:F:2332:GLU:O	1:F:2333:ARG:HD2	2.06	0.56
1:F:2512:ASP:OD1	1:F:2513:GLU:N	2.38	0.56
1:F:2522:ARG:HA	1:F:2525:TRP:HD1	1.70	0.56
1:F:3189:PHE:CZ	1:F:3193:ILE:HD11	2.41	0.56
1:F:3594:ALA:HA	1:F:4032:ASN:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:363:ARG:NH1	3:H:269:GLN:OE1	2.39	0.56
1:A:833:HIS:HE1	1:A:837:THR:HG23	1.70	0.56
1:A:1188:ILE:HG13	1:A:1189:GLU:N	2.20	0.56
1:A:2534:ASN:HB3	1:A:2537:ASP:CB	2.34	0.56
1:A:4102:THR:HA	1:A:4105:LYS:HE2	1.88	0.56
1:F:553:VAL:HG11	1:F:1550:VAL:HG22	1.88	0.56
1:F:878:GLU:HB2	1:F:883:TYR:CE1	2.40	0.56
1:F:1261:LEU:HD21	1:F:1337:VAL:HA	1.87	0.56
1:F:1825:LEU:HA	1:F:1828:LEU:HB2	1.87	0.56
1:F:2151:ILE:HD13	1:F:2188:GLU:HG3	1.87	0.56
1:F:2224:PHE:HD1	1:F:2231:PHE:CE1	2.24	0.56
1:F:3988:LEU:HA	1:F:3991:PHE:CD2	2.41	0.56
2:G:332:GLU:O	2:G:335:GLU:HG2	2.05	0.56
4:J:19:DA:N6	5:I:39:DA:N1	2.52	0.56
1:A:1107:TYR:CE2	1:A:1111:LEU:HD11	2.40	0.56
1:A:1401:ASN:HA	1:A:1404:LYS:HE3	1.87	0.56
1:A:2213:ASN:HA	1:A:2216:LEU:HD12	1.88	0.56
1:A:2447:LYS:HD2	1:A:2449:VAL:HG12	1.87	0.56
1:A:3247:ARG:HH12	1:A:3279:SER:HA	1.71	0.56
1:A:3534:ILE:HD13	1:A:3572:ILE:HD11	1.88	0.56
2:B:344:GLY:O	2:B:399:ARG:NH1	2.31	0.56
2:B:372:GLU:OE1	2:B:377:GLY:N	2.30	0.56
2:B:456:PRO:HA	2:B:459:VAL:HG23	1.86	0.56
1:F:3730:ALA:HA	1:F:3734:ARG:HE	1.70	0.56
3:H:489:ARG:NH2	3:H:493:CYS:SG	2.79	0.56
3:H:677:ILE:HA	3:H:680:GLN:HB3	1.88	0.56
1:A:862:LEU:HD22	1:A:867:ASN:HB3	1.87	0.56
1:A:921:ALA:H	1:A:927:LYS:NZ	2.04	0.56
1:A:1955:VAL:HG22	1:A:1956:PHE:H	1.71	0.56
1:A:2216:LEU:HA	1:A:2219:LEU:HD12	1.88	0.56
1:A:3844:THR:HG23	1:A:3850:HIS:CE1	2.41	0.56
2:B:238:LYS:HD2	2:B:241:ASP:HB2	1.88	0.56
1:F:17:GLU:HA	1:F:20:SER:OG	2.06	0.56
1:F:484:HIS:HD2	1:F:571:SER:HA	1.70	0.56
1:F:1346:THR:HG22	1:F:1402:LEU:HD13	1.87	0.56
1:F:1512:SER:HA	1:F:1563:PHE:HE2	1.71	0.56
1:F:1674:THR:O	1:F:1677:SER:OG	2.20	0.56
1:F:2821:ASP:HA	1:F:2829:LYS:HD3	1.87	0.56
1:F:2878:ALA:HA	1:F:2881:LEU:HD12	1.88	0.56
1:F:3915:HIS:O	1:F:3920:ILE:N	2.36	0.56
1:F:3963:LEU:HD11	1:F:3968:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:164:LYS:HG3	2:G:198:ILE:HG13	1.87	0.56
2:G:409:TYR:HB3	2:G:436:PHE:HE1	1.71	0.56
3:H:395:TYR:N	3:H:404:GLN:O	2.32	0.56
1:A:73:LEU:HD12	1:A:75:SER:H	1.71	0.56
1:A:305:ASN:O	1:A:309:LYS:NZ	2.38	0.56
1:A:1886:LYS:O	1:A:1889:VAL:HG12	2.06	0.56
1:A:2446:LEU:HD11	1:A:2450:GLU:HB2	1.87	0.56
1:A:2939:LEU:O	1:A:2942:ILE:HG23	2.05	0.56
1:A:3235:LYS:O	1:A:3239:LYS:HG2	2.06	0.56
1:A:3700:GLU:HA	1:A:3718:ARG:HA	1.88	0.56
1:F:22:ALA:HB3	1:F:34:LEU:HD21	1.88	0.56
1:F:888:ARG:NH1	1:F:3890:MET:HB3	2.21	0.56
1:F:892:LEU:N	1:F:908:ASP:OD2	2.38	0.56
1:F:1844:VAL:HB	1:F:1898:GLN:HB3	1.88	0.56
1:F:2470:ARG:HA	1:F:2473:MET:CE	2.36	0.56
2:G:504:VAL:HG13	2:G:508:LEU:HD13	1.86	0.56
3:H:663:GLN:HG2	3:H:702:LYS:HD3	1.88	0.56
1:A:1431:LEU:HB3	1:A:1448:LEU:HD21	1.88	0.55
1:A:2920:VAL:HA	1:A:2923:TRP:CD1	2.40	0.55
1:A:3154:GLN:O	1:A:3158:LYS:HG3	2.06	0.55
1:A:3525:TYR:OH	1:A:3711:PRO:HB3	2.06	0.55
1:F:214:GLU:HB2	1:F:217:LEU:HD11	1.88	0.55
1:F:573:LEU:HD11	1:F:649:PHE:HD1	1.70	0.55
1:F:1264:LEU:HD22	1:F:1340:ARG:HB3	1.88	0.55
1:F:1483:LEU:HD11	1:F:1518:ALA:HB1	1.87	0.55
1:F:1488:TYR:HA	1:F:1559:PHE:CZ	2.41	0.55
1:F:1574:ASN:HD21	1:F:1578:ALA:H	1.53	0.55
1:F:2387:PRO:HA	1:F:2394:LYS:HZ1	1.69	0.55
1:F:2425:ARG:CZ	1:F:2457:PRO:HB3	2.36	0.55
1:F:2492:ASP:OD1	1:F:2493:ASN:N	2.40	0.55
1:F:3096:VAL:HG13	1:F:3100:LYS:NZ	2.22	0.55
1:F:3097:ASP:N	1:F:3097:ASP:OD1	2.38	0.55
1:F:3495:PHE:HA	1:F:3498:TRP:CD1	2.41	0.55
1:F:3667:LEU:O	1:F:3671:ASN:ND2	2.39	0.55
2:G:270:SER:OG	2:G:378:SER:OG	2.23	0.55
3:H:57:VAL:HG12	3:H:79:VAL:HG13	1.87	0.55
1:A:356:ASN:HD21	1:A:406:ARG:HH11	1.54	0.55
1:A:1181:THR:O	1:A:1185:HIS:ND1	2.39	0.55
1:A:1899:VAL:HB	1:A:1911:LEU:HD12	1.88	0.55
1:A:2945:SER:O	1:A:3975:LYS:NZ	2.32	0.55
1:A:3061:LEU:O	1:A:3065:ILE:HG13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:419:GLU:H	2:B:426:GLN:HE22	1.54	0.55
2:B:482:VAL:O	2:B:486:HIS:ND1	2.39	0.55
1:F:1291:LEU:HD13	1:F:1363:LEU:HB2	1.87	0.55
1:F:1407:LYS:HD3	1:F:1463:LEU:HD21	1.88	0.55
1:F:1735:ARG:HA	1:F:1738:ASN:ND2	2.20	0.55
1:F:2477:LEU:HD21	1:F:2505:VAL:HG23	1.88	0.55
1:F:3096:VAL:HG13	1:F:3100:LYS:HZ1	1.69	0.55
2:G:95:ASN:OD1	2:G:98:ASN:HA	2.06	0.55
3:H:384:LEU:HD23	3:H:410:PRO:HG3	1.87	0.55
3:H:647:ILE:HG23	3:H:652:GLU:HB3	1.87	0.55
1:A:923:ASP:O	1:A:926:THR:N	2.40	0.55
1:A:2327:LEU:HB3	1:A:2371:PHE:CG	2.42	0.55
1:A:3443:PRO:CB	1:A:3478:GLU:CB	2.61	0.55
1:A:3763:ARG:O	1:A:3767:LEU:HG	2.06	0.55
1:A:3920:ILE:HG23	1:A:3944:HIS:HD2	1.69	0.55
2:B:193:LEU:O	2:B:197:GLY:N	2.34	0.55
1:F:314:SER:HA	1:F:317:GLU:HG3	1.88	0.55
1:F:708:VAL:HG22	1:F:740:ILE:HG13	1.88	0.55
1:F:1597:LEU:O	1:F:1601:LEU:HG	2.06	0.55
1:F:1669:PRO:HA	1:F:1672:PHE:HB3	1.88	0.55
1:F:2254:ARG:HA	1:F:2257:PHE:HB3	1.88	0.55
1:F:2414:GLN:HG3	2:G:148:TRP:CZ2	2.40	0.55
1:F:3493:TRP:HB3	1:F:3525:TYR:CE2	2.41	0.55
1:F:4002:MET:O	1:F:4006:VAL:HG12	2.05	0.55
2:G:91:GLU:OE2	2:G:137:HIS:N	2.39	0.55
2:G:329:LEU:HB3	2:G:333:GLU:OE2	2.06	0.55
3:H:36:LYS:HZ1	3:H:231:LEU:HD21	1.72	0.55
1:A:925:GLN:HE22	1:A:2769:VAL:HA	1.70	0.55
1:A:1513:GLY:O	1:A:1517:LEU:HG	2.06	0.55
1:A:2120:ARG:NH2	1:A:2160:TYR:HA	2.22	0.55
1:A:2563:LEU:HD13	1:A:2795:GLN:HB2	1.88	0.55
1:A:3037:GLN:O	1:A:3041:LEU:HG	2.07	0.55
1:A:3357:ARG:HB3	1:A:3358:ARG:NH1	2.21	0.55
1:A:3739:ILE:H	1:A:3739:ILE:HD12	1.71	0.55
2:B:120:ASP:O	2:B:123:LYS:NZ	2.33	0.55
3:C:87:ASP:HB3	3:C:90:LEU:HD13	1.89	0.55
1:F:860:GLY:HA3	1:F:3136:THR:OG1	2.06	0.55
1:F:899:ARG:NH2	1:F:2533:SER:O	2.38	0.55
1:F:1100:VAL:HB	1:F:1138:ILE:HD12	1.89	0.55
1:F:1224:PHE:HZ	1:F:1281:VAL:HG13	1.71	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:NH1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1984:LEU:HA	1:F:2178:GLY:HA3	1.88	0.55
1:F:2154:GLU:OE1	1:F:2154:GLU:N	2.39	0.55
1:F:2851:PHE:CE2	1:F:2853:PRO:HB2	2.41	0.55
1:F:3123:GLN:O	1:F:3127:THR:HG23	2.07	0.55
1:F:3327:ASN:HB2	1:F:3388:ALA:HB2	1.86	0.55
2:G:40:PHE:HB2	2:G:85:VAL:CG1	2.37	0.55
2:G:273:ILE:HG22	2:G:366:LEU:HG	1.88	0.55
2:G:457:GLU:OE2	2:G:458:GLN:NE2	2.38	0.55
1:A:565:TYR:HA	1:A:568:PHE:CD2	2.41	0.55
1:A:1690:GLY:O	1:A:1693:VAL:HG22	2.07	0.55
1:A:1891:ALA:O	1:A:1908:GLY:N	2.40	0.55
1:A:2158:ARG:NH2	1:A:2196:TRP:HB3	2.16	0.55
1:A:2295:GLN:NE2	1:A:2298:GLU:OE1	2.33	0.55
1:A:3029:LYS:HA	1:A:3031:TRP:CD1	2.42	0.55
1:A:3181:ASP:O	1:A:3184:THR:OG1	2.20	0.55
2:B:44:ALA:HB1	2:B:135:MET:HE1	1.89	0.55
3:C:617:ILE:HA	3:C:620:ILE:HD12	1.87	0.55
1:F:982:GLN:HE21	1:F:2591:ILE:HG23	1.72	0.55
1:F:1365:ASN:C	1:F:1370:ARG:HH12	2.10	0.55
1:F:1369:MET:O	1:F:1418:HIS:ND1	2.40	0.55
1:F:1576:ASP:HB2	1:F:1625:HIS:CE1	2.42	0.55
1:F:1946:ASN:HA	1:F:1949:ILE:HD12	1.89	0.55
1:F:2947:ILE:HD11	1:F:2989:ALA:HB3	1.88	0.55
1:F:2962:ARG:NE	1:F:2962:ARG:HA	2.22	0.55
1:F:3098:ARG:H	1:F:3098:ARG:HD3	1.69	0.55
2:G:420:LEU:HB2	2:G:426:GLN:NE2	2.21	0.55
1:A:997:ASN:O	1:A:1001:PHE:HB2	2.07	0.55
2:B:206:LYS:HG2	2:B:207:LYS:H	1.72	0.55
2:B:385:LEU:HA	2:B:388:LYS:HB3	1.88	0.55
3:C:105:ALA:O	3:C:140:SER:OG	2.20	0.55
3:C:437:SER:HB2	3:C:440:ASN:ND2	2.22	0.55
1:F:140:SER:O	1:F:142:ARG:NH1	2.40	0.55
1:F:316:LEU:HD23	1:F:320:LEU:HD23	1.89	0.55
1:F:803:SER:OG	1:F:852:ARG:NH2	2.39	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:HH12	1.72	0.55
1:F:2320:ALA:HA	1:F:2323:LEU:HD12	1.88	0.55
1:F:3040:TYR:HA	1:F:3043:TYR:CD2	2.37	0.55
1:F:3422:GLN:HE21	1:F:3423:GLN:NE2	2.03	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HG3	1.88	0.55
3:H:37:VAL:HB	3:H:41:PHE:HE1	1.72	0.55
3:H:106:ASP:HA	3:H:142:PHE:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:234:LEU:HD13	3:H:481:LYS:HZ1	1.72	0.55
1:A:531:PHE:CD2	1:A:633:ILE:HD13	2.41	0.55
1:A:538:ASP:OD1	1:A:539:GLN:N	2.36	0.55
1:A:1353:PRO:O	1:A:1357:LYS:HA	2.07	0.55
1:A:2586:PHE:CZ	1:A:2782:ASP:HB3	2.42	0.55
1:A:2917:PRO:HB2	1:A:2920:VAL:HG22	1.89	0.55
2:B:95:ASN:HD22	2:B:102:ILE:CG2	2.18	0.55
2:B:420:LEU:HD21	2:B:424:LYS:HA	1.88	0.55
3:C:501:PRO:HD2	3:C:502:ARG:HH22	1.70	0.55
1:F:772:ALA:O	1:F:775:GLU:HB3	2.07	0.55
1:F:828:LYS:H	1:F:832:LYS:HZ1	1.54	0.55
1:F:1400:VAL:HA	1:F:1403:MET:HE3	1.88	0.55
1:F:1506:SER:HA	1:F:1509:GLN:HE21	1.71	0.55
1:F:1766:LEU:HG	1:F:1822:ARG:HE	1.72	0.55
2:G:514:MET:SD	2:G:515:ASN:N	2.79	0.55
3:H:232:ARG:HD2	3:H:477:PHE:HE1	1.72	0.55
1:A:435:LEU:HA	1:A:438:LEU:HD12	1.88	0.55
1:A:582:THR:OG1	1:A:615:ALA:N	2.38	0.55
1:A:894:PHE:O	1:A:905:ILE:HG12	2.06	0.55
1:A:1304:HIS:O	1:A:1330:TYR:OH	2.24	0.55
1:A:1444:ASP:N	1:A:1444:ASP:OD1	2.40	0.55
1:A:1492:ALA:HB3	1:A:1495:ASP:OD1	2.07	0.55
1:A:1972:GLU:OE1	1:A:1972:GLU:N	2.38	0.55
1:A:2851:PHE:HB3	1:A:2854:PHE:CB	2.36	0.55
1:A:4062:ASP:HA	1:A:4065:LEU:HB2	1.87	0.55
2:B:40:PHE:HB2	2:B:85:VAL:HG12	1.88	0.55
2:B:361:TYR:H	3:C:267:ILE:HG13	1.72	0.55
3:C:37:VAL:O	3:C:40:MET:HB3	2.07	0.55
3:C:181:GLY:N	3:C:188:HIS:HD1	2.05	0.55
1:F:1297:PHE:HB3	1:F:1367:HIS:CE1	2.42	0.55
1:F:2383:PHE:CD1	1:F:2418:LYS:HE3	2.42	0.55
1:F:2792:THR:O	1:F:2795:GLN:HG3	2.06	0.55
1:F:3557:ARG:HA	1:F:3560:SER:OG	2.07	0.55
1:A:13:LEU:O	1:A:16:GLN:N	2.40	0.55
1:A:407:VAL:O	1:A:449:TYR:CE2	2.49	0.55
1:A:1563:PHE:HB3	1:A:1566:THR:OG1	2.07	0.55
1:A:2230:VAL:HA	1:A:2233:HIS:HB3	1.89	0.55
1:A:2351:GLN:O	1:A:2356:MET:HB2	2.05	0.55
1:A:2886:GLN:HG3	1:A:2929:LEU:HD12	1.89	0.55
1:A:3664:ASN:HA	1:A:3667:LEU:HD12	1.89	0.55
1:A:3739:ILE:HD12	1:A:3739:ILE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2394:LYS:O	1:F:2398:LEU:HG	2.07	0.55
1:F:2542:LEU:HA	1:F:2545:LEU:HB2	1.89	0.55
1:F:2884:LEU:HD13	1:F:2886:GLN:HE22	1.71	0.55
1:F:3678:GLY:HA3	1:F:3683:CYS:HB2	1.88	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HA	1.88	0.55
3:H:199:GLU:HA	3:H:202:LYS:HB2	1.89	0.55
1:A:32:HIS:O	1:A:35:ILE:HB	2.07	0.55
1:A:3834:ALA:HA	1:A:3838:GLU:OE2	2.07	0.55
3:C:404:GLN:HB3	3:C:421:TYR:OH	2.07	0.55
1:F:89:LEU:HD23	1:F:133:LYS:HD3	1.89	0.55
1:F:2886:GLN:CD	1:F:2886:GLN:H	2.11	0.55
1:F:3324:ARG:NE	1:F:3391:ALA:O	2.40	0.55
2:G:271:VAL:HG12	2:G:370:PRO:N	2.20	0.55
2:G:319:SER:N	3:H:277:THR:O	2.38	0.55
1:A:79:ARG:HH21	1:A:124:LYS:N	2.02	0.54
1:A:563:LEU:O	1:A:567:GLU:OE1	2.25	0.54
1:A:773:LEU:HA	1:A:776:TRP:CE3	2.41	0.54
1:A:889:GLU:C	1:A:3889:ARG:HH22	2.11	0.54
1:A:1656:ASP:OD1	1:A:1657:SER:N	2.40	0.54
1:A:1668:PHE:HB3	1:A:1669:PRO:HD3	1.89	0.54
1:A:2375:ALA:O	1:A:2378:PHE:N	2.25	0.54
1:A:2426:HIS:NE2	1:A:2428:ASP:HB2	2.22	0.54
1:A:2873:PRO:HB2	1:A:2925:GLU:HG3	1.88	0.54
1:A:3852:VAL:HA	1:A:3855:TYR:CE1	2.41	0.54
1:A:4071:ALA:O	1:A:4074:PHE:HB2	2.07	0.54
3:C:300:ASP:OD1	3:C:301:ASP:N	2.40	0.54
3:C:460:SER:O	3:C:461:MET:HE2	2.07	0.54
1:F:236:LYS:HE2	1:F:239:GLU:HB2	1.89	0.54
1:F:759:GLY:HA2	1:F:765:LEU:HD23	1.88	0.54
1:F:1232:PRO:HB2	1:F:3695:LEU:HD13	1.88	0.54
1:F:1664:SER:HA	1:F:1668:PHE:HD2	1.71	0.54
1:F:1675:TYR:CZ	1:F:1679:LEU:HD21	2.43	0.54
1:F:2852:PRO:HA	1:F:2855:VAL:HG22	1.89	0.54
1:F:2856:SER:HA	1:F:2859:GLN:NE2	2.21	0.54
1:F:3693:GLU:HG2	1:F:3696:ARG:HE	1.72	0.54
3:H:45:GLN:O	3:H:50:ASN:N	2.40	0.54
3:H:457:LEU:HA	3:H:460:SER:HB3	1.90	0.54
1:A:493:LYS:HD3	1:A:522:PRO:HB3	1.88	0.54
1:A:744:ASP:OD1	1:A:746:ARG:HG2	2.07	0.54
1:A:1359:LEU:H	1:A:1361:LYS:NZ	2.04	0.54
1:A:1718:ILE:HB	1:A:1722:PHE:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2328:ARG:HB2	1:A:2370:SER:O	2.07	0.54
1:A:2395:THR:OG1	1:A:2431:ARG:NH2	2.40	0.54
1:A:3755:GLY:HA2	1:A:3799:ARG:HG2	1.89	0.54
1:A:3791:TYR:HB3	1:A:3806:LEU:HD11	1.88	0.54
2:B:237:SER:OG	2:B:238:LYS:N	2.38	0.54
2:B:273:ILE:HG22	2:B:366:LEU:HG	1.89	0.54
3:C:60:GLY:H	3:C:105:ALA:HB3	1.71	0.54
1:F:95:LYS:HE3	1:F:97:GLY:C	2.28	0.54
1:F:762:TYR:O	1:F:765:LEU:HB3	2.07	0.54
1:F:1058:SER:O	1:F:1062:ARG:HG2	2.07	0.54
1:F:1527:ARG:HH22	1:F:1531:LEU:HD21	1.73	0.54
1:F:1676:ILE:HA	1:F:1679:LEU:HD12	1.89	0.54
1:F:3269:ARG:HB3	1:F:3272:TRP:HE3	1.73	0.54
2:G:99:PHE:HB2	2:G:102:ILE:HD13	1.89	0.54
2:G:259:LEU:HG	2:G:260:LYS:H	1.72	0.54
1:A:1917:LYS:NZ	3:H:725:VAL:HA	2.22	0.54
1:A:2893:LEU:HD12	1:A:2926:LEU:HD13	1.89	0.54
1:A:2996:LEU:HA	1:A:2999:LEU:HD12	1.87	0.54
1:A:3603:LYS:HD2	1:A:3651:LEU:O	2.07	0.54
1:A:3844:THR:HA	1:A:3850:HIS:CD2	2.42	0.54
2:B:336:GLU:OE2	2:B:339:ARG:NH2	2.40	0.54
1:F:138:PHE:O	1:F:142:ARG:NH2	2.37	0.54
1:F:876:SER:O	1:F:880:MET:HG3	2.07	0.54
1:F:1770:GLN:HB2	1:F:1814:PHE:CZ	2.42	0.54
1:F:1774:MET:HB3	1:F:1777:LEU:HD23	1.89	0.54
1:F:1862:THR:O	1:F:1866:GLN:HG3	2.07	0.54
1:F:3457:ASN:HB2	1:F:3491:PRO:HG2	1.90	0.54
3:H:339:CYS:HB2	3:H:396:ALA:HB3	1.89	0.54
1:A:770:LEU:O	1:A:773:LEU:N	2.40	0.54
1:A:1834:ASP:HA	1:A:1837:ARG:HH12	1.71	0.54
1:A:1893:GLU:HG2	1:A:1894:SER:N	2.22	0.54
1:F:1767:CYS:HA	1:F:1822:ARG:NH2	2.23	0.54
1:F:3065:ILE:HD12	1:F:3068:ALA:HB3	1.90	0.54
1:F:3856:MET:HE3	1:F:4072:PRO:HD2	1.89	0.54
1:F:3924:HIS:HD2	1:F:3926:ASN:HB2	1.71	0.54
1:F:4039:TYR:HD2	1:F:4066:LEU:HG	1.72	0.54
1:A:148:LYS:O	1:A:152:LEU:HD23	2.06	0.54
1:A:3516:HIS:NE2	1:A:3520:GLU:OE2	2.41	0.54
2:B:287:LYS:HB2	3:C:310:ILE:HD11	1.90	0.54
3:C:411:HIS:HB3	3:C:418:CYS:HB3	1.90	0.54
1:F:194:GLU:HA	1:F:197:PHE:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2154:GLU:HA	1:F:2157:PHE:CE1	2.42	0.54
1:F:2332:GLU:O	1:F:2333:ARG:NH1	2.37	0.54
1:F:3090:TYR:HE2	1:F:3102:TYR:CD2	2.24	0.54
1:F:3123:GLN:HG2	1:F:3124:SER:N	2.23	0.54
2:G:397:LEU:HA	2:G:412:ALA:HA	1.90	0.54
2:G:471:PHE:HD2	3:H:344:GLY:HA3	1.71	0.54
2:G:473:TYR:HB2	3:H:346:CYS:HB3	1.90	0.54
1:A:386:VAL:HG12	1:A:390:GLN:NE2	2.16	0.54
1:A:857:GLN:O	1:A:861:SER:N	2.27	0.54
1:A:1039:TRP:CD1	1:A:1043:GLN:HB2	2.42	0.54
1:A:1801:VAL:HA	1:A:1804:MET:HB3	1.90	0.54
1:A:1803:GLU:HA	1:A:1806:ARG:NH1	2.23	0.54
1:A:2429:ASP:OD1	1:A:2430:GLU:N	2.41	0.54
1:A:2952:ILE:HG12	1:A:2972:TYR:CE1	2.43	0.54
1:A:3544:ASP:OD2	1:A:3546:SER:OG	2.26	0.54
2:B:214:SER:HB3	2:B:218:ARG:HG2	1.89	0.54
3:C:271:ARG:NH2	3:C:272:VAL:O	2.40	0.54
1:F:80:GLU:HA	1:F:83:GLU:HG2	1.89	0.54
1:F:307:GLU:HA	1:F:310:LYS:NZ	2.22	0.54
1:F:1358:LEU:HD13	1:F:1362:ASP:HB3	1.90	0.54
1:F:2353:GLN:HB3	1:F:2360:PHE:CD1	2.42	0.54
1:F:2499:PHE:CE1	1:F:2503:LYS:HE2	2.42	0.54
1:F:2522:ARG:HA	1:F:2525:TRP:CD1	2.43	0.54
1:F:3260:LYS:O	1:F:3264:LYS:NZ	2.34	0.54
1:F:3341:LEU:HD22	1:F:3374:ILE:HG21	1.89	0.54
2:G:482:VAL:HG12	2:G:486:HIS:HE1	1.72	0.54
3:H:552:GLU:HG3	3:H:553:ILE:N	2.21	0.54
1:A:105:VAL:HG13	1:A:108:LYS:HE3	1.88	0.54
1:A:886:TRP:CD2	1:A:964:ARG:HG3	2.43	0.54
1:A:1082:PHE:HA	1:A:1085:ILE:HD12	1.90	0.54
1:A:2525:TRP:HB3	1:A:2561:PHE:CZ	2.36	0.54
1:A:3507:ASP:OD2	1:A:3539:SER:OG	2.24	0.54
1:A:3793:VAL:HB	1:A:3802:LEU:O	2.08	0.54
1:A:3863:ASN:HB3	1:A:3866:GLU:HB3	1.90	0.54
1:F:2126:MET:HA	1:F:2129:LEU:HB2	1.89	0.54
1:F:3274:VAL:O	1:F:3277:VAL:N	2.41	0.54
1:F:3496:ILE:HD13	1:F:3707:GLY:HA2	1.89	0.54
2:G:50:GLU:O	2:G:59:PRO:HD2	2.08	0.54
2:G:193:LEU:O	2:G:197:GLY:N	2.38	0.54
1:A:147:PHE:CE2	1:A:148:LYS:HD3	2.43	0.54
1:A:318:SER:O	1:A:322:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1638:PRO:HB2	1:A:1640:GLU:OE1	2.07	0.54
1:A:2206:PRO:HA	1:A:2209:GLU:HB3	1.89	0.54
1:A:2920:VAL:HA	1:A:2923:TRP:HD1	1.73	0.54
1:A:3963:LEU:HD12	1:A:3967:PHE:HD2	1.72	0.54
1:A:3989:ARG:HH11	1:A:3989:ARG:HG3	1.72	0.54
2:B:255:ALA:HB3	2:B:274:TYR:CD2	2.42	0.54
3:C:250:ARG:NE	3:C:252:THR:OG1	2.41	0.54
1:F:1685:ASP:OD1	1:F:1688:LEU:N	2.37	0.54
1:F:3588:TRP:HB2	1:F:3612:ARG:NH1	2.23	0.54
1:F:3641:ASP:C	1:F:3643:HIS:H	2.12	0.54
1:F:3863:ASN:HD21	1:F:3866:GLU:HB2	1.73	0.54
2:G:75:ILE:HG12	2:G:111:PRO:HB3	1.89	0.54
2:G:515:ASN:O	2:G:519:GLY:N	2.41	0.54
3:H:666:VAL:HG22	3:H:675:TRP:CE3	2.43	0.54
1:A:77:GLU:O	1:A:80:GLU:HG3	2.07	0.54
1:A:1696:LEU:HD13	1:A:1699:PHE:HB2	1.90	0.54
1:A:3037:GLN:OE1	1:A:3037:GLN:N	2.40	0.54
1:A:3123:GLN:HA	1:A:3126:LEU:HB3	1.90	0.54
1:F:42:CYS:O	1:F:46:SER:N	2.41	0.54
1:F:580:ASP:OD1	1:F:581:LEU:N	2.41	0.54
1:F:785:MET:HB3	1:F:789:TYR:CE1	2.43	0.54
1:F:1412:LYS:HA	1:F:1415:LEU:HD12	1.89	0.54
1:F:1418:HIS:ND1	1:F:1421:GLU:OE2	2.41	0.54
1:F:2257:PHE:HA	1:F:2260:PHE:HE2	1.71	0.54
1:F:2452:ARG:NH1	1:F:2497:GLU:OE2	2.41	0.54
2:G:273:ILE:CG2	2:G:368:VAL:HG22	2.38	0.54
1:A:389:ILE:HD13	1:A:431:TYR:CD2	2.43	0.54
1:A:977:ASP:HB3	1:A:980:THR:HG22	1.89	0.54
1:A:1394:HIS:CE1	1:A:1398:VAL:HB	2.42	0.54
1:A:2169:LEU:HD21	1:A:2208:ASP:HA	1.90	0.54
1:A:2245:TRP:O	1:A:2246:LYS:HG3	2.08	0.54
1:A:2481:HIS:CE1	1:A:2485:ARG:HD3	2.43	0.54
1:A:3772:ASN:ND2	1:A:3788:LEU:HB3	2.22	0.54
1:A:4012:ASP:HB3	1:A:4014:LYS:HG2	1.89	0.54
2:B:470:ARG:NH2	3:C:347:LYS:HG2	2.22	0.54
3:C:675:TRP:HA	3:C:678:VAL:HB	1.90	0.54
1:F:721:TYR:C	1:F:722:LYS:HZ3	2.11	0.54
1:F:1757:MET:SD	1:F:1757:MET:N	2.81	0.54
1:F:3253:SER:HA	1:F:3256:MET:HB2	1.89	0.54
1:F:3606:ILE:O	1:F:3609:MET:HG3	2.08	0.54
4:J:21:DA:H2''	4:J:22:DG:OP2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:25:DT:H2''	4:J:26:DT:H5''	1.89	0.54
1:A:783:HIS:HA	1:A:786:GLN:HG2	1.90	0.53
1:A:854:ARG:HA	1:A:857:GLN:OE1	2.08	0.53
1:A:1512:SER:O	1:A:1515:LEU:HG	2.09	0.53
1:A:2455:LEU:HA	1:A:2458:VAL:HB	1.90	0.53
1:A:2851:PHE:CD2	1:A:2854:PHE:HB2	2.42	0.53
1:A:3099:ALA:O	1:A:3102:TYR:HB2	2.07	0.53
1:A:3472:ILE:HA	1:A:3479:THR:CB	2.39	0.53
2:B:261:LEU:HD23	2:B:271:VAL:HG21	1.89	0.53
1:F:852:ARG:O	1:F:856:VAL:HG23	2.09	0.53
1:F:925:GLN:HB2	1:F:2800:ARG:NH2	2.23	0.53
1:F:1118:GLU:HG3	1:F:1121:LEU:H	1.72	0.53
1:F:1369:MET:HG3	1:F:1418:HIS:CE1	2.43	0.53
1:F:2578:GLU:OE1	1:F:2578:GLU:N	2.41	0.53
1:F:3090:TYR:HB2	1:F:3099:ALA:HB2	1.90	0.53
2:G:91:GLU:H	2:G:135:MET:HE2	1.73	0.53
3:H:39:THR:HA	3:H:42:VAL:HG12	1.91	0.53
3:H:133:GLU:HB3	3:H:135:PHE:HE1	1.73	0.53
3:H:349:SER:OG	3:H:350:GLN:OE1	2.20	0.53
3:H:659:LEU:HB3	3:H:688:LYS:HZ3	1.71	0.53
6:D:23:DT:H2'	6:D:24:DT:H71	1.90	0.53
1:A:162:LEU:HD12	2:B:299:LYS:HD2	1.88	0.53
1:A:197:PHE:CE1	1:A:231:LEU:HD22	2.41	0.53
1:A:289:ASN:OD1	1:A:293:LEU:HG	2.08	0.53
1:A:299:LYS:HA	1:A:299:LYS:HE2	1.89	0.53
1:A:524:TYR:O	1:A:629:PHE:HE1	1.90	0.53
1:A:1108:MET:HG3	1:A:1111:LEU:HD12	1.89	0.53
1:A:1854:ARG:NH1	1:A:1863:PHE:HB2	2.23	0.53
1:A:2925:GLU:O	1:A:2928:LYS:HG3	2.09	0.53
1:A:3059:GLN:HB3	1:A:3063:THR:HG23	1.90	0.53
1:A:3629:ARG:HD2	1:A:3632:PHE:CD2	2.41	0.53
1:A:3825:LYS:HD2	1:A:3830:SER:N	2.24	0.53
1:A:3992:ARG:NH2	1:A:4052:ALA:O	2.41	0.53
2:B:384:ALA:HB1	3:C:451:LEU:HD23	1.91	0.53
3:C:512:ILE:HD13	3:C:515:MET:HE3	1.90	0.53
1:F:538:ASP:OD1	1:F:538:ASP:N	2.41	0.53
1:F:889:GLU:OE1	1:F:891:ARG:HG2	2.08	0.53
1:F:1017:ILE:O	1:F:1026:ARG:HD3	2.07	0.53
1:F:1025:LEU:HA	1:F:1028:PHE:HB3	1.90	0.53
1:F:2464:HIS:CD2	1:F:2466:SER:HB3	2.41	0.53
1:F:2981:TRP:HB3	1:F:2983:ASP:OD1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:237:SER:OG	2:G:238:LYS:N	2.42	0.53
2:G:299:LYS:HG3	3:H:294:VAL:H	1.73	0.53
2:G:365:SER:HB2	2:G:435:VAL:HA	1.90	0.53
1:A:146:GLU:HB2	1:A:183:GLU:HB2	1.89	0.53
1:A:793:LEU:HD22	1:A:869:ASN:HD22	1.73	0.53
1:A:1335:CYS:SG	1:A:1382:ILE:HG13	2.48	0.53
1:A:1417:THR:HG22	1:A:1421:GLU:OE2	2.08	0.53
1:A:2521:ILE:O	1:A:2525:TRP:HB2	2.09	0.53
1:A:3113:ASN:O	1:A:3117:ILE:HG12	2.09	0.53
1:A:3180:ASP:OD1	1:A:3181:ASP:N	2.41	0.53
2:B:260:LYS:HD2	2:B:270:SER:HA	1.90	0.53
2:B:332:GLU:O	2:B:335:GLU:HG2	2.08	0.53
3:C:212:MET:HE1	3:C:220:GLY:HA2	1.90	0.53
3:C:454:VAL:HG12	3:C:458:ILE:HD11	1.90	0.53
3:C:651:GLU:HA	3:C:653:GLN:HE22	1.73	0.53
3:C:671:LEU:HB2	3:C:674:PHE:HE1	1.73	0.53
1:F:321:LYS:O	1:F:324:SER:OG	2.23	0.53
1:F:2268:LYS:HE3	1:F:2311:ARG:HH22	1.74	0.53
1:F:2287:PRO:HD3	1:F:2329:TYR:HD2	1.73	0.53
1:F:2521:ILE:HG13	1:F:2525:TRP:NE1	2.24	0.53
1:F:2524:PHE:O	1:F:2530:ARG:HD2	2.08	0.53
1:A:165:LYS:NZ	1:A:167:PRO:O	2.38	0.53
1:A:790:LYS:HA	1:A:869:ASN:HB3	1.90	0.53
1:A:1107:TYR:OH	1:A:1127:CYS:O	2.21	0.53
1:A:1876:ILE:HG13	1:A:1877:LEU:N	2.24	0.53
1:A:1935:GLU:O	1:A:1939:LEU:HD23	2.09	0.53
1:A:3227:ILE:O	1:A:3231:ILE:HG13	2.09	0.53
1:A:4061:CYS:SG	1:A:4078:VAL:HG23	2.48	0.53
3:C:12:LEU:N	3:C:55:ALA:O	2.30	0.53
3:C:675:TRP:O	3:C:679:VAL:HG22	2.09	0.53
3:C:686:ILE:HG13	3:C:688:LYS:HE3	1.89	0.53
1:F:629:PHE:CZ	1:F:633:ILE:HG13	2.43	0.53
1:F:977:ASP:O	1:F:981:ARG:HG2	2.09	0.53
1:F:1082:PHE:HA	1:F:1085:ILE:HG12	1.89	0.53
1:F:1336:THR:O	1:F:1340:ARG:HG2	2.08	0.53
1:F:2457:PRO:HA	1:F:2460:GLU:CD	2.29	0.53
1:F:2577:PHE:HB2	1:F:2783:ILE:HG13	1.91	0.53
1:F:2950:LYS:HZ2	1:F:2986:PRO:HG3	1.73	0.53
1:F:3580:ASN:HA	1:F:3628:PHE:HZ	1.72	0.53
2:G:304:ASN:HD21	2:G:309:GLY:N	2.06	0.53
3:H:246:HIS:HB2	3:H:262:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:18:DA:C5	7:E:39:DA:N1	2.77	0.53
1:A:86:LEU:HA	1:A:89:LEU:HB2	1.89	0.53
1:A:99:LYS:HD3	1:A:143:LEU:HG	1.90	0.53
1:A:979:VAL:HG13	1:A:2591:ILE:HG21	1.91	0.53
1:A:1580:LEU:HD13	1:A:1625:HIS:CE1	2.44	0.53
1:A:1765:VAL:O	1:A:1768:ARG:HG2	2.08	0.53
1:A:2381:ALA:O	1:A:2385:LEU:HD23	2.08	0.53
1:A:2394:LYS:HA	1:A:2397:CYS:HB2	1.90	0.53
1:A:3100:LYS:O	1:A:3104:GLN:NE2	2.39	0.53
1:A:3348:LEU:HD22	1:A:3351:ILE:HD11	1.90	0.53
1:A:3639:GLU:HG2	1:A:3642:LYS:HE2	1.91	0.53
2:B:297:LYS:HG2	3:C:296:CYS:H	1.74	0.53
3:C:253:ILE:HB	3:C:257:LEU:HD11	1.89	0.53
3:C:681:ASP:O	3:C:685:LEU:HG	2.08	0.53
1:F:641:PHE:O	1:F:644:PRO:HD2	2.09	0.53
1:F:847:SER:N	1:F:850:GLU:OE2	2.38	0.53
1:F:892:LEU:O	1:F:907:LEU:N	2.41	0.53
1:F:1769:GLU:H	1:F:1772:HIS:HE1	1.56	0.53
1:F:1867:ILE:HG13	1:F:1871:MET:HE3	1.90	0.53
1:F:2092:GLU:OE1	1:F:2092:GLU:N	2.29	0.53
1:F:2387:PRO:HG2	2:G:155:SER:O	2.07	0.53
1:F:2884:LEU:HA	1:F:2886:GLN:NE2	2.22	0.53
1:A:149:ILE:HD12	1:A:152:LEU:HB2	1.90	0.53
1:A:270:ALA:HA	1:A:273:ARG:NE	2.24	0.53
1:A:773:LEU:HA	1:A:776:TRP:HE3	1.74	0.53
1:A:865:GLN:OE1	1:A:3169:PRO:HA	2.08	0.53
2:B:187:ARG:HG2	2:B:221:ILE:HD11	1.90	0.53
1:F:180:LEU:O	1:F:185:HIS:NE2	2.41	0.53
1:F:640:GLU:OE1	1:F:640:GLU:N	2.40	0.53
1:F:1671:VAL:HA	1:F:1674:THR:HB	1.91	0.53
1:F:1708:GLU:OE1	1:F:1708:GLU:N	2.32	0.53
1:F:2873:PRO:HG2	1:F:2921:LEU:HG	1.89	0.53
1:F:3141:PHE:HA	1:F:3144:PHE:HB3	1.89	0.53
1:F:4038:TRP:CD1	1:F:4040:PRO:HD3	2.44	0.53
3:H:346:CYS:SG	3:H:347:LYS:N	2.79	0.53
1:A:1505:LEU:O	1:A:1509:GLN:HG3	2.09	0.53
1:A:2425:ARG:NH2	1:A:2426:HIS:HA	2.24	0.53
1:A:2836:LEU:HB3	1:A:2840:PHE:HE2	1.72	0.53
1:A:3275:SER:HA	1:A:3278:GLN:NE2	2.24	0.53
1:A:3795:PRO:HA	1:A:3801:GLY:HA2	1.90	0.53
1:A:3841:ASP:HA	1:A:3844:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:131:HIS:CD2	3:C:239:LYS:HG2	2.43	0.53
1:F:188:GLU:HA	1:F:191:ASN:HD21	1.72	0.53
1:F:307:GLU:HA	1:F:310:LYS:HZ3	1.74	0.53
1:F:337:LYS:HA	1:F:340:TYR:HB2	1.91	0.53
1:F:886:TRP:HA	1:F:964:ARG:CZ	2.39	0.53
1:F:1474:ASP:OD1	1:F:1474:ASP:N	2.42	0.53
1:F:2231:PHE:O	1:F:2235:LEU:HG	2.09	0.53
1:F:2379:MET:HG3	1:F:2383:PHE:HE2	1.72	0.53
1:F:3493:TRP:O	1:F:3525:TYR:OH	2.26	0.53
1:F:3835:PRO:HA	1:F:3839:TYR:HB2	1.90	0.53
1:A:95:LYS:HE2	1:A:98:GLN:HG2	1.90	0.53
1:A:408:TYR:CD1	1:A:449:TYR:OH	2.61	0.53
1:A:639:ALA:HB1	1:A:642:PHE:HB3	1.91	0.53
1:A:2371:PHE:CD2	1:A:2374:LEU:HB2	2.42	0.53
1:A:2939:LEU:O	1:A:2942:ILE:HG22	2.09	0.53
1:A:3003:ASN:OD1	1:A:3046:ARG:NH1	2.41	0.53
1:A:3274:VAL:O	1:A:3278:GLN:HG2	2.09	0.53
1:F:391:ARG:HA	1:F:394:GLN:HE21	1.73	0.53
1:F:989:MET:SD	1:F:990:GLN:N	2.82	0.53
1:F:1271:ILE:HD11	1:F:1352:SER:HB2	1.89	0.53
1:F:2232:ARG:O	1:F:2235:LEU:N	2.41	0.53
1:F:2380:ASN:HA	1:F:2383:PHE:HD2	1.73	0.53
1:F:2799:GLN:HE22	1:F:2800:ARG:HD3	1.73	0.53
1:F:2863:CYS:HA	1:F:2869:LEU:HD11	1.89	0.53
1:F:2873:PRO:HB3	1:F:2893:LEU:HD11	1.91	0.53
1:F:3120:LEU:HA	1:F:3122:HIS:NE2	2.24	0.53
1:F:3389:VAL:HG13	1:F:3413:TYR:CE1	2.44	0.53
1:F:3740:ILE:O	1:F:3748:HIS:N	2.42	0.53
1:A:70:ARG:NH1	1:A:71:LYS:O	2.41	0.53
1:A:86:LEU:O	1:A:90:CYS:N	2.41	0.53
1:A:111:CYS:CB	1:A:130:LEU:HD22	2.38	0.53
1:A:1214:GLU:OE1	1:A:1214:GLU:N	2.40	0.53
1:A:1291:LEU:HA	1:A:1294:VAL:HG22	1.91	0.53
2:B:273:ILE:CG2	2:B:366:LEU:HG	2.39	0.53
1:F:483:VAL:O	1:F:487:LEU:HG	2.09	0.53
1:F:719:LYS:O	1:F:722:LYS:NZ	2.41	0.53
1:F:1708:GLU:H	1:F:1708:GLU:CD	2.12	0.53
1:F:1781:SER:HA	1:F:1784:ARG:NH1	2.23	0.53
1:F:3660:ASN:O	1:F:3663:THR:OG1	2.23	0.53
1:F:3931:ALA:HB3	1:F:3934:THR:HG22	1.91	0.53
3:H:725:VAL:O	3:H:729:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:GLN:HB3	1:A:3169:PRO:HA	1.90	0.53
1:A:2296:SER:O	1:A:2300:PHE:HE1	1.91	0.53
1:A:3135:LEU:HA	1:A:3138:ILE:HD12	1.91	0.53
1:A:3421:ASP:O	1:A:3425:ARG:HG2	2.09	0.53
2:B:75:ILE:HD13	2:B:116:ILE:HD11	1.91	0.53
2:B:121:GLN:NE2	2:B:130:ARG:HD2	2.24	0.53
3:C:426:PHE:HB3	3:C:428:GLU:HG2	1.91	0.53
1:F:23:ASP:HA	1:F:34:LEU:CD1	2.38	0.53
1:F:632:GLU:CD	1:F:632:GLU:H	2.12	0.53
1:F:655:LEU:HG	1:F:659:ARG:HE	1.74	0.53
1:F:3601:VAL:HG13	1:F:3604:LYS:HG3	1.90	0.53
2:G:38:LEU:HA	2:G:165:ARG:O	2.09	0.53
3:H:14:MET:SD	3:H:58:LEU:HD13	2.49	0.53
3:H:267:ILE:HB	3:H:361:VAL:HB	1.90	0.53
1:A:67:VAL:HG23	1:A:70:ARG:NH2	2.25	0.52
1:A:152:LEU:HA	1:A:155:LYS:NZ	2.15	0.52
1:A:1065:SER:HA	1:A:1068:LEU:HD21	1.89	0.52
1:A:1747:LEU:HA	1:A:1750:LEU:HD12	1.90	0.52
1:A:2237:ILE:O	1:A:2241:LEU:HG	2.09	0.52
1:A:2313:LYS:HA	1:A:2316:TYR:CE2	2.44	0.52
1:A:3096:VAL:HG22	1:A:3100:LYS:HG3	1.89	0.52
1:A:3596:LEU:HD23	1:A:3596:LEU:H	1.73	0.52
1:F:629:PHE:CE2	1:F:633:ILE:HG13	2.44	0.52
1:F:1813:SER:HB2	1:F:1936:ARG:HH12	1.72	0.52
1:F:2428:ASP:O	1:F:2432:GLN:HG2	2.08	0.52
1:F:2524:PHE:O	1:F:2530:ARG:NH1	2.41	0.52
1:F:3144:PHE:CE1	1:F:3150:ASN:HB3	2.44	0.52
1:F:3748:HIS:HB3	1:F:3750:PHE:CE2	2.44	0.52
1:F:3925:LEU:HD12	1:F:3962:ARG:NH2	2.25	0.52
2:G:420:LEU:HA	2:G:426:GLN:HA	1.89	0.52
1:A:245:SER:HA	1:A:248:ILE:HD12	1.91	0.52
1:A:540:MET:O	1:A:544:ILE:HG12	2.09	0.52
1:A:1154:PRO:HG2	1:A:1157:PHE:CD2	2.43	0.52
1:A:1651:LYS:O	1:A:1655:ILE:HG23	2.09	0.52
1:A:2215:LEU:O	1:A:2219:LEU:HG	2.10	0.52
1:A:2232:ARG:O	1:A:2236:GLU:HG2	2.09	0.52
1:A:2271:SER:HA	1:A:2274:ILE:HD12	1.90	0.52
1:A:2991:LYS:HA	1:A:2994:TRP:CE3	2.44	0.52
1:A:3357:ARG:HB3	1:A:3358:ARG:HH11	1.74	0.52
1:A:3551:ASN:O	1:A:3555:VAL:HG23	2.09	0.52
1:A:3643:HIS:CD2	1:A:3666:LEU:HG	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:LEU:HB2	2:B:436:PHE:HB2	1.90	0.52
1:F:225:LYS:HD3	1:F:271:GLY:N	2.24	0.52
1:F:236:LYS:HZ1	1:F:239:GLU:H	1.56	0.52
1:F:1302:ALA:HB2	1:F:1382:ILE:HG22	1.90	0.52
1:F:1765:VAL:HA	1:F:1768:ARG:NE	2.23	0.52
1:F:2102:LYS:HB3	1:F:2106:ARG:CZ	2.39	0.52
2:G:164:LYS:HE3	2:G:196:THR:HG22	1.90	0.52
2:G:459:VAL:O	2:G:463:LYS:HG2	2.09	0.52
3:H:270:GLU:O	3:H:486:ARG:NH2	2.42	0.52
1:A:263:LYS:HZ1	1:A:264:ARG:HB3	1.73	0.52
1:A:580:ASP:OD2	1:A:616:LYS:NZ	2.42	0.52
1:A:1186:LYS:N	1:A:1186:LYS:HD3	2.25	0.52
1:A:1564:SER:HA	1:A:1567:ILE:HD13	1.91	0.52
1:A:1847:ALA:O	1:A:1851:LEU:HG	2.09	0.52
1:A:3019:ILE:HG21	1:A:3031:TRP:HZ3	1.74	0.52
1:A:3232:ARG:HA	1:A:3235:LYS:NZ	2.24	0.52
3:C:264:TYR:O	3:C:363:LYS:N	2.33	0.52
1:F:535:LEU:HD13	1:F:564:LEU:HD12	1.90	0.52
1:F:1240:THR:HA	1:F:1296:PHE:CE2	2.44	0.52
1:F:1389:VAL:HG23	1:F:1390:GLN:H	1.75	0.52
1:F:1667:SER:OG	1:F:1670:GLU:OE1	2.24	0.52
1:F:2284:ASP:OD1	1:F:2329:TYR:OH	2.28	0.52
1:F:2311:ARG:NH1	1:F:2312:TYR:HB2	2.25	0.52
1:F:2383:PHE:HD1	1:F:2418:LYS:HE3	1.74	0.52
1:F:3786:LEU:HD21	1:F:3910:LEU:HD22	1.92	0.52
2:G:440:ALA:HB2	3:H:481:LYS:O	2.08	0.52
7:E:22:DA:C6	7:E:23:DT:C4	2.97	0.52
1:A:247:GLU:O	1:A:251:PHE:N	2.33	0.52
1:A:363:ILE:HD12	1:A:413:PHE:HA	1.91	0.52
1:A:1087:ARG:HG2	1:A:1090:ARG:HH21	1.74	0.52
1:A:1818:SER:HA	1:A:1821:ASP:HB2	1.91	0.52
1:A:3602:ASN:O	1:A:3604:LYS:NZ	2.26	0.52
1:A:3963:LEU:HD12	1:A:3967:PHE:CD2	2.45	0.52
2:B:36:ASP:CG	2:B:163:HIS:HB3	2.30	0.52
2:B:410:PHE:HB3	2:B:437:LEU:HD21	1.92	0.52
3:C:405:VAL:H	3:C:423:GLN:NE2	2.08	0.52
1:F:583:LEU:HB2	1:F:613:HIS:O	2.09	0.52
1:F:1095:LEU:HA	1:F:1099:PHE:HD2	1.75	0.52
1:F:1147:LYS:HB2	1:F:1149:LYS:HZ3	1.75	0.52
1:F:1172:LEU:HD21	1:F:1187:SER:HA	1.92	0.52
1:F:2459:VAL:HA	1:F:2473:MET:SD	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3039:THR:O	1:F:3042:PRO:HD2	2.10	0.52
1:F:3192:LYS:HA	1:F:3195:GLU:OE2	2.10	0.52
1:F:3298:LEU:HD23	1:F:3302:LYS:HG2	1.89	0.52
1:F:3638:LYS:HE2	1:F:3642:LYS:HD3	1.90	0.52
1:F:4049:ARG:HH12	1:F:4058:VAL:HG12	1.73	0.52
3:H:315:ARG:HA	3:H:320:ILE:HG13	1.92	0.52
3:H:526:SER:O	3:H:529:PRO:HD2	2.10	0.52
5:I:40:DT:H2 [?]	5:I:41:DT:C5	2.44	0.52
1:A:82:ARG:H	1:A:82:ARG:CD	2.21	0.52
1:A:131:LEU:HD11	1:A:173:LYS:C	2.30	0.52
1:A:195:ASN:HA	1:A:198:ARG:HG3	1.92	0.52
1:A:667:TYR:HA	1:A:670:LEU:HD12	1.90	0.52
1:A:1069:HIS:CG	1:A:1070:PRO:HD2	2.44	0.52
1:A:1102:GLU:HG3	1:A:1154:PRO:HD3	1.92	0.52
1:A:1327:GLY:O	1:A:1330:TYR:HB3	2.09	0.52
1:A:3699:LEU:HD23	1:A:3719:ILE:HD13	1.90	0.52
2:B:52:GLN:HG3	2:B:171:ASN:CG	2.30	0.52
2:B:77:SER:HA	2:B:249:LYS:O	2.08	0.52
3:C:418:CYS:SG	3:C:419:LEU:N	2.82	0.52
1:F:43:VAL:HG11	1:F:829:VAL:HA	1.90	0.52
1:F:2275:GLN:O	1:F:2279:ILE:HG12	2.09	0.52
1:F:2890:ILE:HD13	1:F:2930:TYR:CE1	2.44	0.52
2:G:273:ILE:HG23	2:G:368:VAL:HG22	1.90	0.52
2:G:458:GLN:HE22	2:G:527:GLU:C	2.12	0.52
1:A:132:ILE:HG23	1:A:136:GLN:HE22	1.75	0.52
1:A:243:GLN:HG3	1:A:246:ARG:HH21	1.75	0.52
1:A:785:MET:HB3	1:A:789:TYR:CE1	2.44	0.52
1:A:1618:LEU:O	1:A:1622:ILE:HD12	2.09	0.52
2:B:122:PHE:O	2:B:127:GLY:HA3	2.09	0.52
2:B:400:TYR:N	2:B:409:TYR:O	2.43	0.52
3:C:104:GLN:HB2	3:C:141:ARG:NH1	2.25	0.52
1:F:115:TYR:CD2	1:F:118:ASP:HA	2.44	0.52
1:F:717:LYS:HA	1:F:720:GLN:HE22	1.74	0.52
1:F:982:GLN:NE2	1:F:2592:ASP:OD1	2.43	0.52
1:F:1131:ILE:HA	1:F:1134:LEU:HB2	1.92	0.52
1:F:1324:PRO:HA	1:F:1328:GLU:HB3	1.92	0.52
1:F:1611:GLN:HG3	1:F:1613:HIS:HB2	1.92	0.52
1:F:1810:PRO:O	1:F:1811:ARG:NH1	2.43	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:N	2.24	0.52
1:F:4113:ASP:OD1	1:F:4113:ASP:N	2.42	0.52
1:F:6007:UNK:O	1:F:6011:UNK:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:288:LEU:O	3:H:311:ILE:N	2.33	0.52
3:H:33:GLN:HA	3:H:36:LYS:HD3	1.91	0.52
3:H:251:LEU:HD11	3:H:259:ILE:HD12	1.92	0.52
3:H:667:GLU:HA	3:H:675:TRP:CH2	2.45	0.52
3:H:712:SER:OG	3:H:713:GLY:N	2.43	0.52
1:A:10:CYS:HA	1:A:13:LEU:HD23	1.91	0.52
1:A:54:GLN:OE1	1:A:54:GLN:N	2.31	0.52
1:A:229:SER:HA	1:A:278:HIS:CE1	2.44	0.52
1:A:1331:ASN:HA	1:A:1334:LYS:HD3	1.91	0.52
1:A:1904:CYS:SG	1:A:1911:LEU:HD21	2.50	0.52
1:A:2339:GLU:O	1:A:2342:CYS:N	2.42	0.52
1:A:2394:LYS:HD3	1:A:2394:LYS:N	2.24	0.52
1:A:2554:PHE:HB3	1:A:2854:PHE:CE1	2.45	0.52
1:A:3629:ARG:HA	1:A:3632:PHE:CD2	2.44	0.52
2:B:82:LEU:HD21	2:B:108:LEU:HB3	1.91	0.52
3:C:327:ASP:OD1	3:C:328:GLU:N	2.39	0.52
1:F:105:VAL:HA	1:F:108:LYS:NZ	2.25	0.52
1:F:1089:PHE:CE2	1:F:1096:VAL:HG12	2.44	0.52
1:F:1458:LEU:O	1:F:1462:GLY:N	2.26	0.52
1:F:1757:MET:HA	1:F:1760:GLU:HG3	1.91	0.52
1:F:1783:ARG:O	1:F:1830:HIS:NE2	2.43	0.52
1:F:2467:THR:HG22	1:F:2470:ARG:HH21	1.73	0.52
2:G:115:ARG:O	2:G:119:LEU:HG	2.09	0.52
1:A:741:ILE:HD13	1:A:776:TRP:HZ2	1.75	0.52
1:A:3586:LYS:HD2	1:A:3667:LEU:HD22	1.92	0.52
1:A:3921:GLY:H	1:A:3944:HIS:CD2	2.27	0.52
3:C:115:MET:HE3	3:C:150:ILE:HG22	1.91	0.52
3:C:135:PHE:HE1	3:C:164:PHE:HD2	1.57	0.52
3:C:359:ASN:OD1	3:C:360:GLN:N	2.43	0.52
3:C:626:THR:HA	3:C:632:PHE:HD2	1.74	0.52
1:F:1894:SER:HG	1:F:1909:ASN:HD22	1.58	0.52
1:F:2359:LYS:HD3	1:F:2363:CYS:SG	2.50	0.52
1:F:2893:LEU:HD12	1:F:2922:ARG:HB2	1.91	0.52
1:F:3059:GLN:HA	1:F:3062:LEU:HD13	1.92	0.52
1:F:3232:ARG:NH2	1:F:3268:THR:OG1	2.37	0.52
1:F:3423:GLN:HA	1:F:3426:LYS:HE2	1.92	0.52
1:F:3555:VAL:HG12	1:F:3559:LYS:NZ	2.25	0.52
1:F:3583:LEU:O	1:F:3586:LYS:HG3	2.10	0.52
3:H:500:HIS:HB3	3:H:503:GLU:HB2	1.91	0.52
1:A:77:GLU:HG3	1:A:78:PHE:HD1	1.74	0.52
1:A:91:ILE:HD11	1:A:831:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1563:PHE:O	1:A:1566:THR:N	2.43	0.52
1:A:1791:CYS:O	1:A:1795:VAL:HG23	2.09	0.52
1:A:1848:ILE:HB	1:A:1852:LYS:HZ1	1.75	0.52
1:A:2320:ALA:HB1	1:A:2366:LYS:HB2	1.92	0.52
1:A:2411:LEU:H	1:A:2411:LEU:HD12	1.75	0.52
1:A:3357:ARG:NE	1:A:3358:ARG:HH12	2.07	0.52
2:B:164:LYS:HE3	2:B:196:THR:HG22	1.91	0.52
3:C:454:VAL:O	3:C:458:ILE:HG13	2.10	0.52
1:F:46:SER:OG	1:F:827:ASN:ND2	2.43	0.52
1:F:131:LEU:O	1:F:177:LEU:HD11	2.10	0.52
1:F:925:GLN:HB2	1:F:2800:ARG:HH12	1.75	0.52
1:F:2228:ARG:HG2	1:F:2232:ARG:NH2	2.25	0.52
1:F:2252:PRO:O	1:F:2294:ILE:HD11	2.09	0.52
1:F:2420:PHE:CZ	1:F:2435:CYS:HB3	2.44	0.52
1:F:2459:VAL:HG21	1:F:2505:VAL:HG11	1.92	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:HG12	2.10	0.52
1:F:2813:PHE:CD2	1:F:2861:ILE:HG23	2.44	0.52
2:G:48:MET:HE3	2:G:60:PHE:HA	1.91	0.52
3:H:8:ALA:HB1	3:H:240:ILE:HD12	1.92	0.52
3:H:36:LYS:NZ	3:H:231:LEU:HD21	2.25	0.52
3:H:347:LYS:HG3	3:H:349:SER:H	1.75	0.52
1:A:344:GLN:HG2	1:A:345:PHE:N	2.24	0.52
1:A:461:ILE:HA	1:A:464:VAL:HG12	1.92	0.52
1:A:493:LYS:HZ2	1:A:522:PRO:HD3	1.75	0.52
1:A:907:LEU:HD23	1:A:907:LEU:H	1.75	0.52
1:A:932:GLU:OE2	1:A:2773:ARG:HD3	2.10	0.52
1:A:1195:VAL:HG22	1:A:1207:TRP:CZ3	2.45	0.52
1:A:1780:SER:O	1:A:1784:ARG:HG2	2.10	0.52
1:A:1821:ASP:HA	1:A:1825:LEU:HD12	1.91	0.52
1:A:1824:LEU:HD23	1:A:1827:LEU:HD12	1.91	0.52
2:B:414:VAL:HG12	2:B:433:GLN:HB3	1.91	0.52
1:F:131:LEU:HB2	1:F:177:LEU:HD21	1.92	0.52
1:F:275:PHE:HD2	1:F:315:ALA:HB1	1.74	0.52
1:F:683:PHE:CE1	1:F:700:LYS:HB3	2.45	0.52
1:F:1175:HIS:CG	1:F:1229:CYS:HA	2.45	0.52
1:F:1270:PHE:HB3	1:F:1281:VAL:HG21	1.91	0.52
1:F:1407:LYS:HD3	1:F:1463:LEU:HD11	1.91	0.52
1:F:2201:THR:HG22	1:F:2245:TRP:CD1	2.45	0.52
1:F:2964:ASP:OD1	1:F:2965:TYR:N	2.42	0.52
1:F:3477:GLU:HG2	1:F:3477:GLU:O	2.09	0.52
1:A:327:VAL:C	1:A:329:LYS:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:LYS:O	1:A:339:GLN:HG3	2.09	0.51
1:A:1105:VAL:HG11	1:A:1156:GLY:HA3	1.91	0.51
1:A:1180:GLN:O	1:A:1184:ARG:N	2.37	0.51
1:A:1268:ASN:OD1	1:A:1347:THR:HG21	2.10	0.51
1:A:2464:HIS:O	1:A:2466:SER:N	2.39	0.51
1:A:2482:ASP:HA	1:A:2485:ARG:HG2	1.92	0.51
1:A:3617:LEU:HD22	1:A:3636:PHE:HB3	1.92	0.51
1:A:3980:MET:N	1:A:3980:MET:SD	2.83	0.51
3:C:89:ASP:OD1	3:C:90:LEU:N	2.42	0.51
1:F:358:GLU:HG3	1:F:359:LEU:HD22	1.92	0.51
1:F:900:GLU:O	1:F:902:LYS:HD2	2.10	0.51
1:F:984:TYR:HA	1:F:987:LEU:HD12	1.91	0.51
1:F:1241:LEU:HD23	1:F:1256:TRP:HZ3	1.76	0.51
1:F:1519:PHE:HZ	1:F:1528:LEU:HG	1.76	0.51
1:F:1803:GLU:N	1:F:1806:ARG:HH21	2.08	0.51
1:F:2228:ARG:O	1:F:2228:ARG:HD3	2.10	0.51
1:F:2251:ILE:HG22	1:F:2253:TYR:H	1.75	0.51
1:F:3000:ASP:O	1:F:3004:HIS:N	2.43	0.51
1:F:3288:SER:H	1:F:3289:ARG:CZ	2.22	0.51
1:F:3303:THR:HG23	1:F:3304:VAL:HG13	1.91	0.51
1:F:3593:ARG:NH2	1:F:3664:ASN:OD1	2.30	0.51
2:G:345:LEU:HD11	2:G:400:TYR:HD1	1.75	0.51
1:A:23:ASP:N	1:A:23:ASP:OD1	2.43	0.51
1:A:410:MET:HB3	1:A:442:GLN:HG3	1.91	0.51
1:A:969:LEU:O	1:A:972:LEU:HG	2.10	0.51
1:A:1081:ALA:O	1:A:1085:ILE:HG13	2.10	0.51
1:A:1231:GLN:O	1:A:1231:GLN:HG2	2.09	0.51
1:A:1584:GLN:HA	1:A:1628:LYS:NZ	2.26	0.51
1:A:1630:ASP:HA	1:A:1633:TRP:NE1	2.20	0.51
1:A:2332:GLU:C	1:A:2334:LYS:H	2.14	0.51
1:A:2551:GLU:HB3	1:A:2854:PHE:CD2	2.45	0.51
1:A:3717:VAL:HA	1:A:3743:HIS:HE1	1.74	0.51
3:C:730:ASP:O	1:F:1908:GLY:HA2	2.10	0.51
1:F:274:LEU:O	1:F:278:HIS:N	2.43	0.51
1:F:704:PHE:O	1:F:708:VAL:HG23	2.10	0.51
1:F:2133:LEU:HD13	1:F:2143:ARG:HG2	1.91	0.51
1:F:2412:TYR:HA	1:F:2415:LEU:HD12	1.92	0.51
1:F:2558:ALA:HA	1:F:2561:PHE:CE2	2.45	0.51
1:F:3048:LYS:O	1:F:3052:LEU:HG	2.10	0.51
1:F:3554:PHE:O	1:F:3558:ILE:HG12	2.10	0.51
1:F:3954:PRO:HD3	1:F:4027:TRP:CZ3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:146:GLN:NE2	3:H:150:ILE:HG21	2.25	0.51
1:A:727:ALA:HA	1:A:730:LEU:HD12	1.92	0.51
1:A:1328:GLU:HA	1:A:1331:ASN:HD22	1.76	0.51
2:B:63:SER:O	2:B:67:ILE:HG12	2.11	0.51
2:B:450:GLU:OE2	3:C:415:ASN:ND2	2.44	0.51
3:C:599:ARG:HH21	3:C:602:VAL:HG21	1.74	0.51
3:C:645:GLU:HA	3:C:648:LYS:HE3	1.92	0.51
1:F:36:ARG:HA	1:F:36:ARG:HE	1.75	0.51
1:F:66:LEU:HG	1:F:70:ARG:HH12	1.74	0.51
1:F:3101:TYR:HA	1:F:3104:GLN:OE1	2.10	0.51
1:F:3158:LYS:O	1:F:3161:LEU:HG	2.10	0.51
1:F:3388:ALA:O	1:F:3392:ALA:N	2.44	0.51
2:G:462:MET:HA	2:G:465:ILE:HG12	1.93	0.51
3:H:324:SER:N	3:H:327:ASP:OD2	2.43	0.51
3:H:360:GLN:HE22	3:H:421:TYR:HD2	1.58	0.51
3:H:363:LYS:HB3	3:H:420:VAL:HG12	1.93	0.51
3:H:701:ALA:O	3:H:705:LEU:N	2.43	0.51
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.45	0.51
1:A:321:LYS:NZ	1:A:322:GLN:OE1	2.33	0.51
1:A:1015:ASP:HA	1:A:1018:VAL:HG12	1.91	0.51
1:A:2256:ILE:H	1:A:2256:ILE:HD12	1.75	0.51
1:A:2429:ASP:O	1:A:2432:GLN:HG2	2.10	0.51
1:A:2480:ILE:HA	1:A:2483:ASN:ND2	2.25	0.51
1:A:2510:LEU:C	1:A:2518:GLN:HE22	2.14	0.51
2:B:59:PRO:HA	2:B:62:MET:HG3	1.93	0.51
2:B:297:LYS:NZ	3:C:294:VAL:O	2.43	0.51
1:F:574:LYS:O	1:F:578:LYS:HD3	2.11	0.51
1:F:925:GLN:HA	1:F:928:VAL:HG22	1.93	0.51
1:F:1651:LYS:NZ	1:F:1654:GLN:OE1	2.24	0.51
1:F:1804:MET:HB3	1:F:1819:PHE:HE2	1.75	0.51
1:F:1813:SER:HB2	1:F:1868:THR:HG21	1.93	0.51
1:F:3005:LEU:HD22	1:F:3254:LEU:HB3	1.93	0.51
1:F:3174:ASP:OD1	1:F:3178:ILE:HB	2.11	0.51
2:G:115:ARG:NH2	2:G:118:GLU:OE2	2.43	0.51
2:G:274:TYR:HB2	2:G:367:PHE:HD2	1.76	0.51
2:G:274:TYR:N	2:G:367:PHE:O	2.42	0.51
2:G:389:CYS:SG	2:G:415:PRO:HB2	2.50	0.51
1:A:572:VAL:O	1:A:576:VAL:HG23	2.09	0.51
1:A:1891:ALA:HA	1:A:1895:LYS:HG2	1.91	0.51
1:A:2181:GLY:HA2	1:A:2222:HIS:ND1	2.26	0.51
1:A:2330:VAL:HG23	1:A:2331:MET:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2547:SER:H	1:A:2554:PHE:HE2	1.58	0.51
1:A:3946:PHE:O	1:A:3951:GLN:NE2	2.43	0.51
2:B:46:LYS:HA	2:B:137:HIS:NE2	2.25	0.51
3:C:593:ASN:HA	3:C:597:ASN:HB2	1.91	0.51
1:F:187:SER:O	1:F:191:ASN:ND2	2.43	0.51
1:F:969:LEU:O	1:F:973:ALA:N	2.38	0.51
1:F:1288:SER:HB2	1:F:1290:LEU:HD13	1.92	0.51
1:F:2447:LYS:HD3	1:F:2448:PRO:HD2	1.92	0.51
1:F:3086:LEU:HA	1:F:3089:LEU:HD12	1.93	0.51
1:F:3516:HIS:ND1	1:F:3520:GLU:OE2	2.44	0.51
2:G:476:ASP:HA	3:H:427:MET:SD	2.50	0.51
3:H:721:GLU:O	3:H:725:VAL:HG23	2.11	0.51
1:A:544:ILE:O	1:A:548:GLU:HG3	2.11	0.51
1:A:623:PHE:CZ	1:A:627:VAL:HG21	2.45	0.51
1:A:2230:VAL:O	1:A:2233:HIS:HB3	2.11	0.51
1:A:2468:THR:O	1:A:2471:GLU:HG3	2.10	0.51
1:A:2952:ILE:HG12	1:A:2972:TYR:HE1	1.74	0.51
1:A:3378:TYR:O	1:A:3382:PHE:N	2.41	0.51
1:A:3472:ILE:HG13	1:A:3479:THR:CB	2.40	0.51
1:F:570:LYS:HD3	1:F:1505:LEU:HD21	1.92	0.51
1:F:1834:ASP:HA	1:F:1837:ARG:NH1	2.26	0.51
1:F:2815:GLY:HA2	1:F:2818:LYS:HD3	1.92	0.51
1:F:3812:LEU:HB3	1:F:3925:LEU:HD23	1.93	0.51
1:F:6010:UNK:O	1:F:6014:UNK:N	2.44	0.51
2:G:106:GLN:HG3	2:G:115:ARG:NH1	2.25	0.51
2:G:302:THR:HG23	2:G:302:THR:O	2.10	0.51
2:G:413:LEU:HD21	2:G:432:PHE:CG	2.45	0.51
1:A:264:ARG:NH2	7:E:40:DT:H5 ^{''}	2.25	0.51
1:A:437:HIS:NE2	1:A:6015:UNK:HA	2.25	0.51
1:A:656:GLN:HG2	1:A:666:PHE:CE2	2.46	0.51
1:A:1142:HIS:CD2	1:A:1197:LEU:HD11	2.45	0.51
1:A:2205:VAL:HG22	1:A:2207:LYS:H	1.75	0.51
1:A:2428:ASP:HB3	1:A:2431:ARG:HG2	1.93	0.51
1:A:2519:LEU:O	1:A:2522:ARG:HB2	2.11	0.51
1:A:2559:THR:HA	1:A:2562:LEU:HD13	1.93	0.51
1:A:2851:PHE:HB3	1:A:2854:PHE:HB3	1.91	0.51
1:A:3031:TRP:O	1:A:3034:PRO:HD2	2.11	0.51
1:A:4013:TRP:HZ2	1:A:4036:LYS:HE2	1.76	0.51
2:B:450:GLU:HA	3:C:416:TYR:HE1	1.75	0.51
3:C:74:TYR:HD1	3:C:113:VAL:HG22	1.75	0.51
3:C:185:LEU:HB3	3:C:514:ASN:ND2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:305:ASN:O	1:F:308:LEU:N	2.40	0.51
1:F:642:PHE:CE2	1:F:646:VAL:HG12	2.45	0.51
1:F:828:LYS:HG3	1:F:830:VAL:H	1.75	0.51
1:F:1854:ARG:HB3	1:F:1863:PHE:CE1	2.41	0.51
1:F:1887:ASP:OD1	1:F:1887:ASP:N	2.39	0.51
1:F:3374:ILE:HA	1:F:3377:LEU:HB2	1.92	0.51
1:F:3447:VAL:CG2	1:F:3478:GLU:O	2.41	0.51
1:F:3881:ASP:HA	1:F:3969:ASN:HB3	1.93	0.51
1:F:4040:PRO:HA	1:F:4043:LYS:HD2	1.93	0.51
2:G:273:ILE:CG2	2:G:366:LEU:HG	2.40	0.51
3:H:251:LEU:HD23	3:H:261:ILE:HD13	1.93	0.51
3:H:463:LEU:HD22	3:H:522:VAL:HG11	1.92	0.51
1:A:84:GLU:HA	1:A:87:LYS:HB3	1.91	0.51
1:A:301:CYS:SG	1:A:302:ALA:N	2.83	0.51
1:A:318:SER:O	1:A:321:LYS:HG2	2.11	0.51
1:A:465:PHE:HE1	1:A:482:VAL:HG21	1.76	0.51
1:A:471:LYS:HZ3	1:A:473:PRO:HG2	1.76	0.51
1:A:797:ASP:OD1	1:A:797:ASP:N	2.43	0.51
1:A:3616:ALA:O	1:A:3633:ILE:CG2	2.59	0.51
2:B:116:ILE:H	2:B:116:ILE:HD12	1.76	0.51
3:C:509:GLN:OE1	3:C:512:ILE:HG12	2.10	0.51
1:F:333:MET:SD	3:H:568:LYS:NZ	2.62	0.51
1:F:1145:LEU:HD13	1:F:1151:ARG:HH21	1.75	0.51
1:F:1190:LEU:HB3	1:F:1194:PHE:CZ	2.46	0.51
1:F:1304:HIS:HB3	1:F:1307:ILE:O	2.10	0.51
1:F:1658:SER:O	1:F:1662:ASN:ND2	2.44	0.51
1:F:1967:PHE:C	1:F:1969:GLU:H	2.12	0.51
1:F:2197:THR:HG23	1:F:5009:UNK:N	2.26	0.51
1:F:3064:PHE:O	1:F:3067:LYS:HB2	2.10	0.51
2:G:193:LEU:HB2	2:G:198:ILE:HD13	1.93	0.51
1:A:453:MET:HA	1:A:456:VAL:HG22	1.93	0.51
1:A:1017:ILE:HD12	1:A:1077:GLY:HA3	1.92	0.51
1:A:1124:ILE:HG13	1:A:1125:GLN:N	2.26	0.51
1:A:2323:LEU:O	1:A:2327:LEU:HG	2.10	0.51
2:B:362:LEU:HD12	2:B:436:PHE:HB3	1.92	0.51
2:B:392:LYS:NZ	3:C:458:ILE:HG21	2.26	0.51
1:F:960:GLN:HA	1:F:963:LYS:HE2	1.93	0.51
1:F:971:ARG:HH12	1:F:1025:LEU:HD13	1.75	0.51
1:F:1412:LYS:O	1:F:1415:LEU:HB2	2.10	0.51
1:F:1525:CYS:O	1:F:1529:VAL:HG23	2.11	0.51
1:F:1972:GLU:C	1:F:1973:LYS:HD2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2196:TRP:HE1	1:F:2200:ALA:HB3	1.76	0.51
1:F:2430:GLU:N	1:F:2430:GLU:OE1	2.42	0.51
1:F:2435:CYS:O	1:F:2439:ILE:HG12	2.11	0.51
1:F:3361:GLU:HB3	1:F:3366:SER:HA	1.93	0.51
1:F:3759:ARG:HH22	1:F:4015:ASN:HB3	1.75	0.51
1:F:3871:PHE:HA	1:F:3874:ARG:HD3	1.92	0.51
2:G:93:ASP:CG	2:G:100:LYS:HA	2.31	0.51
2:G:459:VAL:HG13	3:H:383:ALA:HB2	1.93	0.51
1:A:704:PHE:O	1:A:708:VAL:HG23	2.11	0.51
1:A:1669:PRO:HA	1:A:1672:PHE:HB3	1.93	0.51
1:A:2127:LYS:O	1:A:2127:LYS:NZ	2.43	0.51
1:A:2821:ASP:HA	1:A:2829:LYS:HE2	1.92	0.51
1:A:2936:TYR:HA	1:A:2939:LEU:HD12	1.91	0.51
1:A:3768:PHE:HB3	1:A:3788:LEU:HD23	1.91	0.51
2:B:95:ASN:HB3	2:B:102:ILE:HG22	1.92	0.51
2:B:131:PHE:HA	2:B:134:MET:HG2	1.93	0.51
3:C:250:ARG:HA	3:C:260:ARG:HA	1.93	0.51
3:C:264:TYR:N	3:C:363:LYS:O	2.40	0.51
3:C:365:PHE:HB2	3:C:368:ARG:NH1	2.23	0.51
1:F:73:LEU:HD21	1:F:78:PHE:CD1	2.46	0.51
1:F:242:PRO:HA	1:F:245:SER:HB2	1.93	0.51
1:F:431:TYR:O	1:F:435:LEU:HG	2.11	0.51
1:F:456:VAL:HA	1:F:459:ARG:HE	1.75	0.51
1:F:1260:LEU:HD22	1:F:1337:VAL:HG13	1.93	0.51
1:F:2208:ASP:HA	1:F:2211:LEU:HD12	1.93	0.51
1:F:3090:TYR:CB	1:F:3099:ALA:HB2	2.40	0.51
1:F:3565:GLY:HA2	1:F:3569:GLN:OE1	2.10	0.51
1:F:3865:THR:O	1:F:3869:THR:HG23	2.11	0.51
2:G:264:ASN:HD21	3:H:534:LYS:HZ1	1.56	0.51
2:G:322:TYR:CE2	3:H:494:LEU:HD21	2.46	0.51
2:G:526:LYS:HD2	3:H:256:ASN:OD1	2.11	0.51
3:H:182:PRO:HB2	3:H:520:ALA:HB3	1.93	0.51
1:A:215:PRO:O	1:A:216:LYS:HD2	2.11	0.50
1:A:278:HIS:C	1:A:281:GLN:HE22	2.15	0.50
1:A:346:TYR:OH	1:A:350:ARG:NH1	2.44	0.50
1:A:966:PHE:O	1:A:969:LEU:HB3	2.11	0.50
1:A:1002:GLU:OE1	1:A:1002:GLU:N	2.44	0.50
1:A:1271:ILE:O	1:A:1274:ARG:NH1	2.39	0.50
1:A:1431:LEU:HD11	1:A:1447:ARG:CZ	2.41	0.50
1:A:1471:GLN:HE22	1:A:1476:HIS:CE1	2.28	0.50
1:A:1855:PHE:HA	1:A:1867:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1891:ALA:HB2	1:A:1896:ILE:H	1.75	0.50
1:A:2239:LYS:O	1:A:2242:VAL:HG12	2.10	0.50
1:A:2540:LEU:HA	1:A:2543:ASN:ND2	2.26	0.50
1:A:3050:LYS:O	1:A:3054:GLN:NE2	2.44	0.50
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.11	0.50
3:C:453:ALA:HB2	3:C:536:LEU:HD23	1.92	0.50
1:F:96:MET:HG3	1:F:99:LYS:HG3	1.93	0.50
1:F:306:VAL:HG12	1:F:309:LYS:HD2	1.93	0.50
1:F:1125:GLN:H	1:F:1125:GLN:CD	2.15	0.50
1:F:3544:ASP:OD2	1:F:3546:SER:OG	2.20	0.50
1:F:3781:CYS:HA	1:F:3784:ARG:HB2	1.94	0.50
2:G:46:LYS:HD2	2:G:137:HIS:NE2	2.26	0.50
2:G:173:ASP:HA	2:G:213:ILE:HG23	1.92	0.50
2:G:299:LYS:NZ	3:H:292:GLU:HG2	2.26	0.50
2:G:363:ARG:NH2	3:H:359:ASN:O	2.45	0.50
2:G:416:GLN:HB3	2:G:431:GLY:N	2.14	0.50
1:A:35:ILE:HG22	1:A:36:ARG:HD3	1.93	0.50
1:A:279:ALA:HB1	1:A:322:GLN:CD	2.32	0.50
1:A:1428:ILE:HG13	1:A:1429:GLU:N	2.26	0.50
1:A:2908:LYS:HD2	1:A:2909:ARG:O	2.11	0.50
1:A:2937:ASP:HB3	1:A:3979:LEU:HD13	1.93	0.50
1:A:3765:GLU:HA	1:A:3768:PHE:CE2	2.47	0.50
1:A:3810:VAL:N	1:A:3930:VAL:H	2.08	0.50
1:A:3949:ALA:HB1	1:A:3955:VAL:O	2.12	0.50
2:B:50:GLU:O	2:B:59:PRO:HD2	2.11	0.50
2:B:52:GLN:HG3	2:B:171:ASN:ND2	2.26	0.50
2:B:318:ARG:HH21	3:C:278:VAL:HA	1.75	0.50
1:F:320:LEU:HD13	1:F:368:LEU:HD13	1.92	0.50
1:F:616:LYS:NZ	1:F:618:LYS:HD2	2.26	0.50
1:F:639:ALA:HB1	1:F:642:PHE:HB3	1.93	0.50
1:F:1825:LEU:HA	1:F:1828:LEU:HD12	1.92	0.50
1:F:2470:ARG:HA	1:F:2473:MET:HE3	1.92	0.50
1:F:2897:LEU:HD13	1:F:2922:ARG:HD2	1.92	0.50
1:F:3352:GLU:OE2	1:F:3357:ARG:HG3	2.10	0.50
1:F:3869:THR:HG22	1:F:3872:ARG:HH12	1.76	0.50
1:F:3962:ARG:NH2	1:F:4125:GLU:HG2	2.26	0.50
5:I:42:DA:H8	5:I:42:DA:OP2	1.93	0.50
1:A:531:PHE:HA	1:A:534:LEU:HD12	1.94	0.50
1:A:741:ILE:HA	1:A:748:TYR:CE2	2.38	0.50
1:A:1878:ASP:OD1	1:A:1879:VAL:N	2.44	0.50
1:A:2312:TYR:O	1:A:2315:VAL:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:CYS:O	1:A:2404:ARG:NE	2.42	0.50
1:A:2959:ALA:HB2	1:A:2967:GLU:OE2	2.11	0.50
1:A:3960:PRO:HD3	1:A:4110:GLN:OE1	2.11	0.50
2:B:388:LYS:HE3	2:B:392:LYS:HB2	1.93	0.50
1:F:528:VAL:HG12	1:F:629:PHE:CE1	2.46	0.50
1:F:884:VAL:HG13	1:F:964:ARG:HH22	1.76	0.50
1:F:1624:GLN:O	1:F:1628:LYS:NZ	2.44	0.50
1:F:1667:SER:OG	1:F:1667:SER:O	2.29	0.50
1:F:1684:LEU:HB3	1:F:1688:LEU:HB2	1.94	0.50
1:F:2220:MET:HG2	1:F:2255:LEU:HD22	1.94	0.50
1:F:3471:ILE:O	1:F:3475:TYR:N	2.32	0.50
1:F:3956:PRO:HB3	1:F:4068:HIS:HE1	1.77	0.50
3:H:183:PHE:CE2	3:H:190:PRO:HD2	2.46	0.50
1:A:446:PHE:N	1:A:447:PRO:HD3	2.16	0.50
1:A:721:TYR:O	1:A:722:LYS:HD3	2.11	0.50
1:A:1834:ASP:HA	1:A:1837:ARG:NH1	2.26	0.50
1:A:2297:SER:HA	1:A:2300:PHE:CD1	2.47	0.50
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ2	1.75	0.50
1:A:2981:TRP:CD1	1:A:2986:PRO:HD2	2.47	0.50
1:A:3111:MET:SD	1:A:3112:GLN:NE2	2.84	0.50
1:A:3663:THR:O	1:A:3667:LEU:HG	2.11	0.50
2:B:487:PHE:O	2:B:491:GLU:HG3	2.11	0.50
3:C:247:TRP:CH2	3:C:338:LYS:HE3	2.46	0.50
3:C:329:GLU:O	3:C:332:LYS:HE2	2.12	0.50
1:F:313:LEU:HD21	1:F:357:LYS:HZ2	1.76	0.50
1:F:320:LEU:HD21	1:F:364:ARG:NH2	2.27	0.50
1:F:463:LYS:NZ	1:F:544:ILE:HG23	2.26	0.50
1:F:977:ASP:OD1	1:F:978:GLN:N	2.44	0.50
1:F:1444:ASP:HA	1:F:1447:ARG:HH12	1.76	0.50
1:F:2950:LYS:HG3	1:F:2994:TRP:HZ2	1.76	0.50
1:F:3037:GLN:HA	1:F:3040:TYR:CD2	2.41	0.50
1:F:3631:LYS:HA	1:F:3634:GLN:HE21	1.76	0.50
2:G:194:ARG:HH12	2:G:199:PHE:HA	1.77	0.50
6:D:20:DT:C2	6:D:21:DA:N1	2.79	0.50
1:A:449:TYR:HB3	1:A:453:MET:SD	2.52	0.50
1:A:834:LEU:O	1:A:835:LYS:HG3	2.12	0.50
1:A:2400:VAL:HA	1:A:2403:CYS:SG	2.52	0.50
1:A:2434:VAL:O	1:A:2437:ASP:HB2	2.12	0.50
1:A:2951:GLN:HA	1:A:2954:GLN:NE2	2.27	0.50
1:A:3177:ASN:OD1	1:A:3178:ILE:N	2.44	0.50
1:A:3187:CYS:SG	1:A:3239:LYS:HE2	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:451:PRO:O	1:F:455:LEU:HG	2.11	0.50
1:F:484:HIS:O	1:F:487:LEU:HB2	2.11	0.50
1:F:1538:LEU:N	1:F:1553:PHE:O	2.44	0.50
1:F:1811:ARG:NH2	3:H:627:ASN:H	2.08	0.50
1:F:2387:PRO:HA	1:F:2394:LYS:NZ	2.27	0.50
1:F:2518:GLN:HA	1:F:2521:ILE:HG22	1.93	0.50
1:F:3421:ASP:OD1	1:F:3425:ARG:NH2	2.44	0.50
1:F:3568:ILE:O	1:F:3571:PHE:HB2	2.12	0.50
1:F:3717:VAL:HG12	1:F:3744:ASP:HB2	1.92	0.50
1:F:4049:ARG:HH21	1:F:4054:ALA:HB1	1.75	0.50
2:G:340:PHE:HB3	2:G:408:PRO:HD3	1.93	0.50
2:G:507:THR:HG23	2:G:508:LEU:HD12	1.92	0.50
1:A:131:LEU:HD11	1:A:174:VAL:N	2.25	0.50
1:A:1190:LEU:HB3	1:A:1194:PHE:CZ	2.47	0.50
1:A:1329:ARG:HE	1:A:1329:ARG:HA	1.77	0.50
1:A:1878:ASP:HB3	1:A:1947:CYS:HA	1.93	0.50
1:A:2129:LEU:HD11	1:A:2146:LEU:HD22	1.93	0.50
1:A:2952:ILE:HG13	1:A:2971:GLN:HB3	1.93	0.50
1:A:3090:TYR:O	1:A:3094:ASP:N	2.45	0.50
1:A:3154:GLN:O	1:A:3157:LEU:HB2	2.12	0.50
1:A:3195:GLU:HG3	1:A:3196:LYS:HG2	1.92	0.50
1:A:3369:ASP:OD2	1:A:3372:LYS:NZ	2.44	0.50
1:A:3496:ILE:HG12	1:A:3707:GLY:HA3	1.92	0.50
1:A:3644:PHE:HA	1:A:3653:ARG:NH2	2.27	0.50
1:A:3901:ARG:NH1	1:A:3970:LEU:HA	2.26	0.50
2:B:173:ASP:OD2	2:B:214:SER:N	2.44	0.50
2:B:512:GLU:O	2:B:516:LYS:HE2	2.12	0.50
1:F:83:GLU:HA	1:F:86:LEU:HD12	1.94	0.50
1:F:236:LYS:NZ	1:F:239:GLU:H	2.10	0.50
1:F:655:LEU:O	1:F:659:ARG:HG3	2.11	0.50
1:F:1242:LEU:O	1:F:1312:CYS:HB2	2.12	0.50
1:F:1568:ASN:HA	1:F:1600:MET:HE1	1.93	0.50
1:F:2850:PHE:O	1:F:2852:PRO:HD3	2.11	0.50
1:F:2967:GLU:OE2	1:F:2971:GLN:NE2	2.45	0.50
2:G:325:ARG:NE	3:H:498:ALA:O	2.44	0.50
2:G:418:GLU:OE2	2:G:430:PRO:HG3	2.11	0.50
4:J:20:DT:C2	4:J:21:DA:N1	2.79	0.50
7:E:37:DT:H2'	7:E:38:DT:C5	2.46	0.50
1:A:67:VAL:HA	1:A:70:ARG:CZ	2.42	0.50
1:A:229:SER:O	1:A:278:HIS:NE2	2.45	0.50
1:A:305:ASN:ND2	1:A:307:GLU:HG2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:LEU:O	1:A:534:LEU:HG	2.11	0.50
1:A:709:LYS:O	1:A:712:LYS:N	2.44	0.50
1:A:757:LYS:O	1:A:760:LEU:HB2	2.12	0.50
1:A:793:LEU:HD22	1:A:869:ASN:HB2	1.94	0.50
1:A:899:ARG:NH2	1:A:2565:MET:O	2.45	0.50
1:A:1627:LYS:O	1:A:1630:ASP:HB2	2.12	0.50
1:A:3090:TYR:HA	1:A:3093:GLN:HB2	1.94	0.50
1:A:3568:ILE:HD12	1:A:3571:PHE:HD2	1.77	0.50
2:B:320:GLN:OE1	3:C:276:TRP:HA	2.12	0.50
2:B:450:GLU:C	2:B:451:LYS:HD3	2.32	0.50
3:C:90:LEU:O	3:C:94:ILE:HG12	2.12	0.50
3:C:394:ARG:NH1	3:C:396:ALA:HB3	2.27	0.50
1:F:1828:LEU:O	1:F:1883:ARG:NH1	2.44	0.50
1:F:3052:LEU:HD11	1:F:3061:LEU:HD11	1.94	0.50
1:F:3610:TYR:CE1	1:F:3649:SER:HA	2.46	0.50
2:G:203:MET:HE2	2:G:239:LEU:N	2.26	0.50
5:I:33:DA:H1'	5:I:34:DC:H5'	1.94	0.50
1:A:440:VAL:O	1:A:443:ILE:HB	2.12	0.50
1:A:1107:TYR:OH	1:A:1130:ALA:HB3	2.11	0.50
1:A:2349:LEU:O	1:A:2360:PHE:HE1	1.95	0.50
1:A:2450:GLU:O	1:A:2454:LEU:HD23	2.12	0.50
1:A:2928:LYS:O	1:A:2931:ARG:HB2	2.12	0.50
1:A:3502:MET:HA	1:A:3505:LEU:HD13	1.92	0.50
1:A:3586:LYS:HZ3	1:A:3671:ASN:HB3	1.76	0.50
1:A:3811:THR:HG21	1:A:3926:ASN:HA	1.94	0.50
1:A:3999:THR:O	1:A:4002:MET:HG2	2.11	0.50
2:B:95:ASN:OD1	2:B:98:ASN:N	2.43	0.50
3:C:448:GLU:HA	3:C:451:LEU:HB2	1.93	0.50
1:F:1164:CYS:N	1:F:1167:ASP:OD2	2.44	0.50
1:F:1384:PHE:H	1:F:1386:ILE:HG23	1.77	0.50
1:F:1454:ALA:O	1:F:1457:GLN:NE2	2.45	0.50
1:F:2350:LYS:HZ2	1:F:2378:PHE:HE2	1.60	0.50
1:F:2552:VAL:HA	1:F:2851:PHE:CG	2.46	0.50
1:F:3940:ILE:HG22	1:F:3941:ASP:N	2.27	0.50
2:G:93:ASP:OD2	2:G:100:LYS:CA	2.50	0.50
2:G:189:LYS:HA	2:G:192:ASP:OD2	2.12	0.50
3:H:69:SER:O	3:H:74:TYR:HB2	2.12	0.50
3:H:107:PHE:CE2	3:H:111:LEU:HD11	2.46	0.50
3:H:363:LYS:HG3	3:H:365:PHE:CE1	2.47	0.50
3:H:629:THR:HA	3:H:632:PHE:CE2	2.47	0.50
5:I:21:DA:H1'	5:I:22:DA:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:22:DG:O5'	6:D:22:DG:H8	1.95	0.50
6:D:31:DT:C2	7:E:26:DA:C2	3.00	0.50
1:A:100:ILE:HG13	1:A:103:TYR:HD2	1.77	0.50
1:A:230:LEU:HD23	1:A:234:PHE:CZ	2.46	0.50
1:A:1329:ARG:NE	1:A:1332:TYR:HB3	2.27	0.50
1:A:1559:PHE:HA	1:A:1562:LEU:HD12	1.94	0.50
1:A:2937:ASP:CG	1:A:3982:SER:HB3	2.32	0.50
1:A:3095:ASP:OD1	1:A:3095:ASP:N	2.43	0.50
2:B:71:TYR:O	2:B:75:ILE:HG13	2.12	0.50
2:B:289:TYR:H	2:B:294:GLU:N	2.10	0.50
3:C:337:GLY:H	3:C:399:LYS:HG2	1.76	0.50
3:C:629:THR:C	3:C:633:MET:HE2	2.33	0.50
1:F:471:LYS:HB3	1:F:474:VAL:HG22	1.93	0.50
1:F:1090:ARG:HG3	1:F:1091:GLU:OE1	2.12	0.50
1:F:1296:PHE:HA	1:F:1299:GLU:OE2	2.11	0.50
1:F:1374:GLN:HA	1:F:1377:CYS:SG	2.52	0.50
1:F:1608:ARG:HB2	1:F:1612:LYS:NZ	2.26	0.50
1:F:1921:ASP:OD1	1:F:1922:ALA:N	2.42	0.50
1:F:2158:ARG:HH21	1:F:2196:TRP:HB3	1.76	0.50
1:F:2268:LYS:HE3	1:F:2311:ARG:NH2	2.26	0.50
1:F:2409:THR:HG23	1:F:2445:LYS:HG2	1.94	0.50
1:F:2444:PRO:HA	1:F:2479:TRP:CZ2	2.47	0.50
1:F:2494:ASP:O	1:F:2497:GLU:HG2	2.12	0.50
1:F:2851:PHE:CD2	1:F:2854:PHE:HB2	2.34	0.50
1:F:3490:VAL:HG23	1:F:3494:GLN:OE1	2.12	0.50
1:F:3571:PHE:CD1	1:F:3686:TRP:HZ3	2.29	0.50
1:F:3923:ARG:HB2	1:F:3962:ARG:HB2	1.94	0.50
2:G:140:ASP:OD1	2:G:141:TYR:N	2.40	0.50
6:D:31:DT:N3	7:E:26:DA:C2	2.80	0.50
1:A:344:GLN:O	1:A:348:ILE:HG12	2.10	0.49
1:A:1400:VAL:O	1:A:1404:LYS:HG2	2.12	0.49
1:A:1464:LEU:HG	1:A:1521:PHE:CZ	2.46	0.49
1:A:2227:LYS:HE2	1:A:2230:VAL:HG22	1.94	0.49
1:A:2389:PHE:HB2	1:A:2394:LYS:HZ2	1.76	0.49
1:A:2911:ARG:NH2	1:A:2912:GLY:O	2.31	0.49
1:A:3193:ILE:HG13	1:A:3194:GLU:N	2.27	0.49
1:A:3237:SER:O	1:A:3240:MET:HB2	2.12	0.49
1:A:3675:LYS:HD3	1:A:3676:PRO:O	2.10	0.49
2:B:121:GLN:O	2:B:126:GLN:NE2	2.35	0.49
2:B:325:ARG:HH21	3:C:498:ALA:HA	1.76	0.49
2:B:458:GLN:O	2:B:462:MET:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:108:LEU:O	3:C:112:ILE:HG13	2.11	0.49
1:F:418:ALA:HB2	1:F:464:VAL:HG12	1.94	0.49
1:F:783:HIS:O	1:F:786:GLN:HG2	2.11	0.49
1:F:1090:ARG:HA	1:F:1096:VAL:HG11	1.94	0.49
1:F:1122:GLY:HA2	1:F:1125:GLN:HE22	1.77	0.49
1:F:1453:SER:HA	1:F:1456:LYS:HZ3	1.77	0.49
1:F:1593:VAL:O	1:F:1597:LEU:HG	2.12	0.49
1:F:2330:VAL:HG13	1:F:2333:ARG:HH12	1.77	0.49
1:F:2514:ASN:HB3	1:F:2517:LEU:HG	1.94	0.49
1:F:3495:PHE:HB3	1:F:3498:TRP:HB2	1.93	0.49
1:F:3632:PHE:HE1	1:F:3675:LYS:HB3	1.77	0.49
1:F:3765:GLU:HA	1:F:3768:PHE:CD2	2.42	0.49
2:G:261:LEU:HD23	2:G:345:LEU:HG	1.94	0.49
6:D:19:DA:C5	6:D:20:DT:C4	2.99	0.49
1:A:57:LEU:HD21	1:A:100:ILE:HD11	1.94	0.49
1:A:109:ASN:O	1:A:112:THR:OG1	2.30	0.49
1:A:133:LYS:O	1:A:137:THR:HG23	2.12	0.49
1:A:263:LYS:NZ	1:A:264:ARG:HB3	2.27	0.49
1:A:568:PHE:O	1:A:572:VAL:HG23	2.11	0.49
1:A:739:ASN:HA	1:A:742:GLU:CD	2.32	0.49
1:A:1891:ALA:CB	1:A:1895:LYS:H	2.24	0.49
1:A:2102:LYS:HA	1:A:2105:HIS:HB3	1.93	0.49
1:A:2158:ARG:NH2	1:A:2195:SER:O	2.45	0.49
1:A:2159:PRO:HG2	1:A:2160:TYR:CE1	2.47	0.49
1:A:2291:GLN:NE2	1:A:2295:GLN:HA	2.26	0.49
1:A:2903:ALA:O	1:A:2904:GLU:HG2	2.11	0.49
1:A:3386:SER:HA	1:A:3389:VAL:HG12	1.94	0.49
2:B:299:LYS:O	3:C:293:THR:HA	2.12	0.49
3:C:247:TRP:NE1	3:C:249:CYS:HB2	2.27	0.49
1:F:76:ILE:HG13	1:F:80:GLU:HG2	1.94	0.49
1:F:251:PHE:HA	1:F:254:LYS:HG2	1.93	0.49
1:F:899:ARG:HB3	1:F:2570:PRO:HD2	1.94	0.49
1:F:1038:LYS:HE2	1:F:1042:LYS:NZ	2.27	0.49
1:F:1756:PRO:HA	1:F:1797:LEU:HD11	1.94	0.49
1:F:1851:LEU:C	1:F:1852:LYS:HD3	2.33	0.49
1:F:2271:SER:HA	1:F:2274:ILE:HD13	1.93	0.49
1:F:2481:HIS:CD2	1:F:2530:ARG:HE	2.29	0.49
1:F:2490:GLU:O	1:F:2496:GLN:NE2	2.40	0.49
1:F:3493:TRP:HD1	1:F:3521:ILE:HG13	1.76	0.49
1:F:3511:ALA:O	1:F:3515:GLN:N	2.32	0.49
2:G:116:ILE:H	2:G:116:ILE:HD12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:524:THR:O	3:H:527:GLN:NE2	2.44	0.49
1:A:82:ARG:O	1:A:86:LEU:HG	2.12	0.49
1:A:370:ALA:O	1:A:374:LYS:N	2.44	0.49
1:A:531:PHE:CD2	1:A:633:ILE:HG21	2.41	0.49
1:A:1283:GLY:HA3	1:A:1356:TRP:CZ2	2.47	0.49
1:A:1394:HIS:ND1	1:A:1394:HIS:O	2.45	0.49
1:A:1674:THR:O	1:A:1678:LEU:HG	2.12	0.49
1:A:1752:LEU:HA	1:A:1788:ARG:HH22	1.78	0.49
1:A:1871:MET:HA	1:A:1874:TYR:HD2	1.77	0.49
1:A:2189:ILE:O	1:A:2193:ILE:HG13	2.12	0.49
1:A:2398:LEU:HD12	1:A:2431:ARG:HB2	1.94	0.49
2:B:490:LEU:HD22	3:C:323:PHE:CE2	2.47	0.49
3:C:209:LYS:HA	3:C:212:MET:HG3	1.93	0.49
3:C:263:ALA:HA	3:C:364:VAL:HA	1.93	0.49
3:C:609:PHE:O	3:C:654:ARG:NH2	2.44	0.49
1:F:895:ALA:HA	1:F:904:VAL:HG22	1.93	0.49
1:F:1143:VAL:HA	1:F:1146:ASN:HD22	1.76	0.49
1:F:1505:LEU:O	1:F:1509:GLN:HG3	2.11	0.49
1:F:2402:LEU:HA	1:F:2438:ILE:HG12	1.94	0.49
1:F:2820:MET:HA	1:F:2823:PHE:CZ	2.46	0.49
1:F:3020:ASP:N	1:F:3020:ASP:OD1	2.44	0.49
3:H:522:VAL:HA	3:H:525:LYS:HG2	1.94	0.49
6:D:16:DA:C5	6:D:17:DT:C4	2.99	0.49
7:E:27:DC:H2'	7:E:28:DT:C6	2.46	0.49
1:A:282:PHE:HB3	1:A:285:CYS:HB2	1.95	0.49
1:A:291:VAL:O	1:A:294:PHE:N	2.43	0.49
1:A:571:SER:HA	1:A:574:LYS:HG2	1.94	0.49
1:A:845:ALA:HB1	1:A:851:ILE:HD11	1.93	0.49
1:A:1756:PRO:HA	1:A:1759:LEU:CB	2.40	0.49
1:A:2447:LYS:HD3	1:A:2449:VAL:H	1.77	0.49
1:A:3164:TRP:HB3	1:A:3186:ARG:HH11	1.77	0.49
1:A:3729:MET:HE1	1:A:3737:ARG:CB	2.42	0.49
2:B:51:SER:HB3	2:B:54:GLU:O	2.12	0.49
2:B:354:VAL:HG13	2:B:355:LEU:HD22	1.95	0.49
1:F:435:LEU:O	1:F:438:LEU:HG	2.12	0.49
1:F:1334:LYS:O	1:F:1338:VAL:HG23	2.13	0.49
1:F:2443:MET:HE3	1:F:2476:ILE:HG12	1.93	0.49
1:F:2503:LYS:HA	1:F:2506:LEU:HD12	1.93	0.49
1:F:3059:GLN:HA	1:F:3062:LEU:HB2	1.93	0.49
1:F:3120:LEU:HD12	1:F:3121:LEU:HD22	1.95	0.49
1:F:3319:ASN:ND2	1:F:3321:LEU:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:115:MET:O	3:H:115:MET:HE3	2.12	0.49
4:J:37:DG:H22	5:I:20:DT:H1'	1.76	0.49
1:A:289:ASN:OD1	1:A:292:SER:HB2	2.12	0.49
1:A:439:VAL:O	1:A:443:ILE:HG12	2.13	0.49
1:A:624:ILE:O	1:A:628:GLU:HG3	2.12	0.49
1:A:665:GLY:O	1:A:669:LEU:HG	2.12	0.49
1:A:871:LEU:HD23	1:A:872:THR:HG23	1.94	0.49
1:A:1070:PRO:HB2	1:A:3743:HIS:HA	1.94	0.49
1:A:1165:LEU:O	1:A:1169:VAL:HG23	2.13	0.49
1:A:1444:ASP:O	1:A:1448:LEU:HG	2.11	0.49
1:A:1836:LEU:H	1:A:1836:LEU:HD23	1.77	0.49
1:A:2572:TYR:O	1:A:2788:SER:N	2.46	0.49
1:A:2983:ASP:OD1	1:A:2983:ASP:N	2.46	0.49
1:A:3077:ILE:HA	1:A:3080:LEU:HG	1.94	0.49
1:A:3969:ASN:O	1:A:3972:LEU:HD23	2.12	0.49
3:C:721:GLU:HA	3:C:724:ASP:HB3	1.94	0.49
1:F:756:PHE:HB2	1:F:795:CYS:SG	2.53	0.49
1:F:1444:ASP:HA	1:F:1447:ARG:NH1	2.27	0.49
1:F:1597:LEU:O	1:F:1600:MET:HB2	2.12	0.49
1:F:2256:ILE:H	1:F:2256:ILE:HD12	1.76	0.49
1:F:2341:LEU:HA	1:F:2344:LEU:HD12	1.94	0.49
1:F:2479:TRP:HA	1:F:2482:ASP:OD2	2.12	0.49
1:F:3956:PRO:HB3	1:F:4068:HIS:CE1	2.48	0.49
3:H:74:TYR:CE1	3:H:109:ASP:HA	2.47	0.49
1:A:152:LEU:HD12	1:A:156:PHE:CZ	2.47	0.49
1:A:1468:LEU:HD13	1:A:1521:PHE:CE1	2.47	0.49
1:A:2831:ASN:O	1:A:2835:LYS:HG3	2.12	0.49
1:A:3020:ASP:N	1:A:3020:ASP:OD1	2.45	0.49
1:A:3029:LYS:HE3	1:A:3074:GLN:HG3	1.93	0.49
1:A:3042:PRO:O	1:A:3046:ARG:HG3	2.13	0.49
1:A:3096:VAL:HG13	1:A:3100:LYS:HZ2	1.78	0.49
1:A:3523:ASP:OD1	1:A:3561:LYS:HG2	2.12	0.49
1:A:3634:GLN:O	1:A:3638:LYS:HG3	2.12	0.49
3:C:674:PHE:CG	3:C:675:TRP:N	2.81	0.49
1:F:24:ARG:NH2	1:F:25:CYS:HA	2.28	0.49
1:F:54:GLN:HG2	1:F:55:THR:N	2.27	0.49
1:F:225:LYS:HZ3	1:F:268:PRO:HA	1.77	0.49
1:F:484:HIS:NE2	1:F:575:ILE:HG13	2.28	0.49
1:F:940:PHE:CE1	1:F:944:LYS:HE3	2.48	0.49
2:G:273:ILE:HG23	2:G:368:VAL:HG23	1.93	0.49
3:H:55:ALA:O	3:H:57:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:165:LEU:N	3:H:226:SER:HA	2.26	0.49
3:H:659:LEU:HD22	3:H:688:LYS:HZ1	1.77	0.49
7:E:21:DA:H2''	7:E:22:DA:C8	2.47	0.49
1:A:382:ASP:O	1:A:386:VAL:HG23	2.12	0.49
1:A:641:PHE:O	1:A:645:TRP:HZ3	1.96	0.49
1:A:737:PRO:O	1:A:740:ILE:HG12	2.13	0.49
1:A:858:MET:HA	1:A:861:SER:OG	2.12	0.49
1:A:877:ASP:HA	1:A:880:MET:SD	2.53	0.49
1:A:960:GLN:O	1:A:963:LYS:HG2	2.12	0.49
1:A:1104:LEU:HD13	1:A:1134:LEU:HD11	1.95	0.49
1:A:1235:ILE:H	1:A:1235:ILE:HD12	1.78	0.49
1:A:1361:LYS:HE3	1:A:1411:TYR:CE1	2.47	0.49
1:A:1606:ARG:NH1	1:A:1607:GLU:OE2	2.46	0.49
1:A:1692:ALA:HA	1:A:1695:LEU:HD13	1.95	0.49
1:A:1897:ASN:HB2	1:A:1911:LEU:HD23	1.94	0.49
1:A:2393:LEU:O	1:A:2396:LEU:HB2	2.12	0.49
1:A:2791:ILE:O	1:A:2794:LEU:HB2	2.12	0.49
1:A:3563:ASP:HB3	1:A:3566:GLY:HA3	1.95	0.49
1:A:3809:THR:HB	1:A:3931:ALA:HB2	1.95	0.49
2:B:304:ASN:OD1	2:B:309:GLY:N	2.46	0.49
3:C:182:PRO:O	3:C:189:GLY:HA2	2.12	0.49
1:F:42:CYS:HB2	1:F:88:PHE:CD1	2.48	0.49
1:F:203:GLU:OE1	1:F:203:GLU:HA	2.13	0.49
1:F:1220:LEU:HA	1:F:1223:THR:HG22	1.95	0.49
1:F:1256:TRP:HH2	1:F:1296:PHE:CD2	2.30	0.49
1:F:1295:ALA:O	1:F:1298:LEU:HB2	2.13	0.49
1:F:1428:ILE:HG13	1:F:1429:GLU:N	2.26	0.49
1:F:1476:HIS:H	1:F:1524:LEU:HD21	1.76	0.49
1:F:1776:GLU:OE1	1:F:1776:GLU:N	2.41	0.49
1:F:2215:LEU:O	1:F:2219:LEU:HG	2.12	0.49
1:F:2349:LEU:HD12	1:F:2378:PHE:CE1	2.47	0.49
1:F:3571:PHE:O	1:F:3575:LEU:HG	2.12	0.49
1:F:3814:ASP:OD1	1:F:3815:LEU:N	2.46	0.49
1:F:4006:VAL:HG23	1:F:4011:PHE:CD2	2.48	0.49
3:H:183:PHE:HE2	3:H:192:PHE:HE1	1.59	0.49
3:H:461:MET:HE1	3:H:523:THR:HG22	1.95	0.49
3:H:651:GLU:HB3	3:H:654:ARG:HB2	1.95	0.49
1:A:315:ALA:O	1:A:318:SER:OG	2.26	0.49
1:A:697:ASP:HB2	1:A:700:LYS:NZ	2.27	0.49
1:A:1354:GLU:OE2	1:A:1410:PRO:HD3	2.13	0.49
1:A:1663:THR:H	1:A:1665:HIS:HE1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2125:TRP:CZ3	1:A:2126:MET:HB2	2.48	0.49
1:A:2429:ASP:HA	1:A:2432:GLN:NE2	2.27	0.49
1:A:2772:TYR:N	1:A:2775:TYR:OH	2.39	0.49
1:A:2803:ILE:O	1:A:2806:LYS:HG3	2.13	0.49
1:A:3160:LEU:HD12	1:A:3163:THR:HB	1.94	0.49
1:A:3391:ALA:HA	1:A:3394:GLU:OE2	2.13	0.49
1:A:3813:LYS:HA	1:A:3816:LEU:HD12	1.93	0.49
1:A:3898:LEU:HA	1:A:3901:ARG:HG3	1.94	0.49
1:A:3979:LEU:O	1:A:3983:ILE:HD12	2.12	0.49
1:A:4078:VAL:O	1:A:4082:ARG:HG3	2.12	0.49
2:B:273:ILE:HG23	2:B:367:PHE:O	2.13	0.49
1:F:374:LYS:NZ	1:F:423:TYR:O	2.30	0.49
1:F:1202:ARG:NH2	1:F:1210:ASP:HB2	2.27	0.49
1:F:2086:ASP:OD1	1:F:2184:TYR:OH	2.21	0.49
1:F:2311:ARG:HH12	1:F:2312:TYR:HB2	1.75	0.49
1:F:2550:ILE:O	1:F:2550:ILE:HG22	2.13	0.49
1:F:2850:PHE:HD2	1:F:2882:ALA:HB3	1.78	0.49
1:F:3232:ARG:HH22	1:F:3268:THR:HG1	1.59	0.49
1:F:3374:ILE:HA	1:F:3377:LEU:HD12	1.94	0.49
1:F:3812:LEU:HB3	1:F:3925:LEU:CD2	2.42	0.49
1:F:3815:LEU:O	1:F:3819:THR:HG23	2.13	0.49
2:G:158:GLN:OE1	2:G:158:GLN:N	2.45	0.49
2:G:473:TYR:HB2	3:H:346:CYS:CB	2.43	0.49
1:A:438:LEU:HA	1:A:441:MET:HE2	1.94	0.49
1:A:451:PRO:O	1:A:455:LEU:HG	2.13	0.49
1:A:797:ASP:HB2	1:A:801:LYS:HE2	1.94	0.49
1:A:1444:ASP:HA	1:A:1447:ARG:NE	2.28	0.49
1:A:1539:SER:HA	1:A:1552:HIS:ND1	2.27	0.49
1:A:1874:TYR:HB2	1:A:1943:ALA:HB1	1.94	0.49
1:A:2437:ASP:O	1:A:2441:LYS:HG2	2.13	0.49
1:A:2937:ASP:OD1	1:A:3979:LEU:HA	2.13	0.49
1:A:3258:LEU:HA	1:A:3261:GLU:OE2	2.13	0.49
1:A:3531:TYR:HA	1:A:3534:ILE:HD12	1.95	0.49
1:A:3707:GLY:C	1:A:3708:ARG:HD3	2.33	0.49
2:B:71:TYR:CE2	2:B:75:ILE:HD11	2.48	0.49
2:B:279:LYS:HZ2	3:C:357:MET:HB3	1.77	0.49
3:C:395:TYR:CE1	3:C:397:TYR:HB2	2.47	0.49
1:F:210:SER:O	1:F:212:VAL:N	2.44	0.49
1:F:429:GLU:O	1:F:432:THR:HG22	2.13	0.49
1:F:497:LEU:HD12	1:F:498:PRO:HD2	1.94	0.49
1:F:623:PHE:CE2	1:F:663:ILE:HG21	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:786:GLN:HA	1:F:789:TYR:CD2	2.48	0.49
1:F:826:PHE:CE2	1:F:836:LYS:HD2	2.47	0.49
1:F:1538:LEU:HB2	1:F:1555:HIS:CE1	2.48	0.49
1:F:1765:VAL:HA	1:F:1768:ARG:CZ	2.42	0.49
1:F:1766:LEU:HD11	1:F:1775:GLU:HG3	1.95	0.49
1:F:2897:LEU:HB2	1:F:2922:ARG:HD3	1.95	0.49
1:F:3147:LYS:HB3	1:F:3150:ASN:OD1	2.12	0.49
1:F:3549:HIS:HA	1:F:3552:LYS:HD2	1.93	0.49
1:F:3617:LEU:HD11	1:F:3636:PHE:HB2	1.95	0.49
2:G:470:ARG:NE	3:H:346:CYS:HA	2.28	0.49
3:H:8:ALA:HA	3:H:129:LYS:HB3	1.95	0.49
3:H:406:GLY:HA3	3:H:421:TYR:CE1	2.48	0.49
1:A:302:ALA:HA	1:A:309:LYS:HE3	1.94	0.49
1:A:1367:HIS:ND1	1:A:1370:ARG:HD3	2.27	0.49
1:A:1645:VAL:O	1:A:1649:LEU:HG	2.13	0.49
1:A:1848:ILE:HG22	1:A:1915:LEU:HD21	1.95	0.49
1:A:3034:PRO:HB2	1:A:3037:GLN:OE1	2.13	0.49
1:A:3045:ILE:O	1:A:3049:LEU:HG	2.12	0.49
1:A:3266:SER:HA	1:A:3272:TRP:HB3	1.93	0.49
1:A:3382:PHE:O	1:A:3385:LEU:HG	2.13	0.49
1:A:3681:LYS:HE2	1:A:3724:GLU:HA	1.95	0.49
1:A:3860:LYS:HD3	1:A:4073:ALA:H	1.76	0.49
1:A:3913:ILE:O	1:A:3916:TRP:N	2.45	0.49
2:B:147:LEU:HB2	2:B:189:LYS:HE2	1.94	0.49
3:C:264:TYR:HB2	3:C:363:LYS:HG3	1.95	0.49
3:C:407:VAL:HG12	3:C:424:LEU:HD21	1.95	0.49
1:F:132:ILE:HD12	1:F:135:LEU:HD12	1.94	0.49
1:F:848:LEU:HA	1:F:851:ILE:HD12	1.95	0.49
1:F:933:LEU:HD22	1:F:2794:LEU:HD23	1.95	0.49
1:F:1404:LYS:NZ	1:F:1460:ARG:O	2.45	0.49
1:F:1772:HIS:N	1:F:1775:GLU:OE2	2.45	0.49
1:F:1913:LYS:HA	1:F:1916:ILE:HD12	1.94	0.49
1:F:2253:TYR:O	1:F:2257:PHE:N	2.23	0.49
1:F:2361:ILE:HD12	1:F:2361:ILE:H	1.77	0.49
1:F:2397:CYS:O	1:F:2401:VAL:HG23	2.13	0.49
1:F:2462:VAL:O	1:F:2463:SER:OG	2.27	0.49
1:F:3769:GLN:HA	1:F:3772:ASN:HB2	1.95	0.49
2:G:87:PHE:HB2	2:G:103:TYR:HB3	1.95	0.49
2:G:410:PHE:HB3	2:G:437:LEU:HD21	1.93	0.49
3:H:232:ARG:C	3:H:233:LYS:HD2	2.33	0.49
1:A:99:LYS:C	1:A:101:ALA:H	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:GLN:HA	1:A:246:ARG:HE	1.78	0.48
1:A:1004:GLN:O	1:A:1007:VAL:HG22	2.13	0.48
1:A:1095:LEU:HD12	1:A:1099:PHE:HE2	1.78	0.48
1:A:1424:THR:HG1	1:A:1427:SER:N	2.11	0.48
1:A:2792:THR:O	1:A:2795:GLN:HB3	2.13	0.48
1:A:3450:MET:CE	1:A:3468:LEU:HD22	2.43	0.48
1:A:3796:MET:N	1:A:3801:GLY:HA2	2.28	0.48
2:B:119:LEU:HA	2:B:122:PHE:CE2	2.48	0.48
2:B:462:MET:HE3	3:C:380:LEU:HA	1.95	0.48
3:C:524:THR:HA	3:C:527:GLN:HG2	1.95	0.48
1:F:320:LEU:HB2	1:F:368:LEU:HD22	1.95	0.48
1:F:484:HIS:CD2	1:F:574:LYS:HD2	2.48	0.48
1:F:581:LEU:HD21	1:F:659:ARG:HH11	1.77	0.48
1:F:663:ILE:HB	1:F:666:PHE:CE2	2.48	0.48
1:F:678:LYS:NZ	1:F:683:PHE:H	2.10	0.48
1:F:801:LYS:O	1:F:3115:SER:HB2	2.13	0.48
1:F:1376:LEU:HD21	1:F:1457:GLN:HE22	1.78	0.48
1:F:1527:ARG:O	1:F:1530:SER:OG	2.22	0.48
1:F:1598:ASN:HA	1:F:1601:LEU:HD12	1.95	0.48
1:F:1729:PHE:HA	1:F:1735:ARG:HH22	1.78	0.48
1:F:2238:ILE:O	1:F:2242:VAL:HG13	2.13	0.48
3:H:271:ARG:HD3	3:H:486:ARG:HH22	1.78	0.48
3:H:348:SER:HA	3:H:390:VAL:HG13	1.94	0.48
3:H:595:ALA:HA	3:H:598:PHE:CE2	2.47	0.48
1:A:70:ARG:CZ	1:A:82:ARG:NH2	2.76	0.48
1:A:667:TYR:CD2	1:A:729:CYS:HB3	2.48	0.48
1:A:862:LEU:HD21	1:A:866:ILE:HB	1.95	0.48
1:A:1182:GLU:HA	1:A:1185:HIS:ND1	2.28	0.48
1:A:1368:LEU:O	1:A:1372:LEU:HG	2.13	0.48
1:A:2276:LEU:HA	1:A:2279:ILE:HD12	1.93	0.48
1:A:2936:TYR:HA	1:A:2939:LEU:CD1	2.43	0.48
1:A:3530:VAL:O	1:A:3534:ILE:HG13	2.14	0.48
1:A:3706:ASP:HB3	1:A:3708:ARG:CZ	2.43	0.48
1:A:3973:PRO:HG2	1:A:3974:MET:SD	2.53	0.48
2:B:471:PHE:HD2	3:C:344:GLY:HA2	1.77	0.48
3:C:573:GLY:C	3:C:575:HIS:H	2.16	0.48
3:C:640:ARG:O	3:C:643:ARG:NH1	2.46	0.48
1:F:172:GLU:HB2	1:F:219:VAL:HG12	1.95	0.48
1:F:210:SER:HB3	2:G:332:GLU:OE2	2.13	0.48
1:F:458:CYS:O	1:F:462:VAL:HG23	2.13	0.48
1:F:827:ASN:HB3	1:F:836:LYS:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1495:ASP:OD1	1:F:1495:ASP:N	2.47	0.48
1:F:2340:SER:HA	1:F:2343:GLU:OE2	2.13	0.48
1:F:2356:MET:SD	1:F:2357:GLU:N	2.86	0.48
1:F:2987:THR:HG22	1:F:2990:GLU:OE1	2.13	0.48
1:F:3254:LEU:O	1:F:3258:LEU:HG	2.13	0.48
1:F:3353:GLU:HB3	1:F:3355:LYS:HE2	1.94	0.48
1:F:3766:GLN:HA	1:F:3769:GLN:NE2	2.27	0.48
1:F:3965:ARG:HA	1:F:3968:ILE:HB	1.95	0.48
1:F:4100:GLU:HG2	1:F:4101:GLU:N	2.28	0.48
1:F:4125:GLU:HA	1:F:4127:TRP:CZ3	2.48	0.48
2:G:59:PRO:HA	2:G:62:MET:HG2	1.95	0.48
1:A:214:GLU:HG2	2:B:403:ARG:HH22	1.78	0.48
1:A:535:LEU:HD22	1:A:637:LYS:HB2	1.96	0.48
1:A:672:ILE:HG13	1:A:673:THR:N	2.28	0.48
1:A:1101:PHE:O	1:A:1105:VAL:HG23	2.12	0.48
1:A:2343:GLU:HB3	1:A:2347:LYS:NZ	2.29	0.48
1:A:3820:MET:HE2	1:A:3821:SER:N	2.28	0.48
1:A:3967:PHE:HB3	1:A:3971:MET:HE1	1.94	0.48
2:B:403:ARG:HD3	2:B:404:ARG:N	2.29	0.48
1:F:151:GLU:O	1:F:154:SER:OG	2.22	0.48
1:F:363:ILE:HA	1:F:366:TYR:HD2	1.77	0.48
1:F:414:LEU:HD11	1:F:461:ILE:HG13	1.94	0.48
1:F:471:LYS:O	1:F:475:LEU:N	2.44	0.48
1:F:1058:SER:HA	1:F:1061:LYS:HE2	1.94	0.48
1:F:1155:ARG:HH22	1:F:3691:LYS:HB3	1.77	0.48
1:F:1224:PHE:CZ	1:F:1281:VAL:HG13	2.47	0.48
1:F:2549:LYS:HB3	1:F:2550:ILE:HD12	1.95	0.48
1:F:3374:ILE:HG22	1:F:3377:LEU:HD12	1.94	0.48
1:F:3593:ARG:NH2	1:F:3661:ASP:OD1	2.27	0.48
1:F:3681:LYS:O	1:F:3688:SER:OG	2.31	0.48
1:F:3706:ASP:HB3	1:F:3708:ARG:HH22	1.78	0.48
1:F:3813:LYS:NZ	1:F:3925:LEU:HB3	2.28	0.48
1:F:3816:LEU:CD1	1:F:3882:LEU:HD11	2.43	0.48
3:H:58:LEU:N	3:H:78:THR:O	2.46	0.48
1:A:471:LYS:NZ	1:A:473:PRO:HG2	2.28	0.48
1:A:848:LEU:HB3	1:A:852:ARG:NH1	2.29	0.48
1:A:2106:ARG:HA	1:A:2106:ARG:CZ	2.44	0.48
1:A:2233:HIS:O	1:A:2237:ILE:HD12	2.13	0.48
1:A:3098:ARG:HG2	1:A:3101:TYR:HB3	1.95	0.48
2:B:357:LYS:N	2:B:360:HIS:HE1	2.12	0.48
1:F:98:GLN:HE22	1:F:141:SER:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:387:GLU:HB2	1:F:391:ARG:HH11	1.77	0.48
1:F:457:CYS:O	1:F:461:ILE:HD12	2.12	0.48
1:F:1016:GLY:O	1:F:1026:ARG:HG2	2.13	0.48
1:F:2186:VAL:O	1:F:2190:VAL:HG23	2.13	0.48
1:F:2551:GLU:OE1	1:F:2551:GLU:N	2.46	0.48
1:F:3716:HIS:H	1:F:3718:ARG:NH1	2.12	0.48
2:G:238:LYS:O	2:G:242:LEU:N	2.38	0.48
2:G:267:ILE:HD13	3:H:534:LYS:HE2	1.94	0.48
2:G:282:LYS:HZ3	2:G:483:LEU:HD13	1.77	0.48
2:G:302:THR:HG23	2:G:311:LEU:HD23	1.94	0.48
2:G:372:GLU:OE2	2:G:376:ILE:HA	2.13	0.48
3:H:632:PHE:O	3:H:636:ILE:HG12	2.14	0.48
1:A:75:SER:HB3	1:A:78:PHE:CD1	2.49	0.48
1:A:155:LYS:O	1:A:158:GLY:N	2.46	0.48
1:A:210:SER:O	1:A:213:ARG:NH1	2.46	0.48
1:A:475:LEU:O	1:A:479:ILE:HG12	2.14	0.48
1:A:1069:HIS:CD2	1:A:1070:PRO:HD2	2.47	0.48
1:A:1215:GLU:C	1:A:1219:PHE:HB2	2.34	0.48
1:A:1333:SER:O	1:A:1336:THR:OG1	2.22	0.48
1:A:2804:ILE:HG13	1:A:2805:ALA:N	2.29	0.48
1:A:2937:ASP:OD2	1:A:3982:SER:HB3	2.12	0.48
1:A:4089:ILE:HA	1:A:4092:GLN:NE2	2.28	0.48
2:B:287:LYS:HE2	2:B:296:VAL:HG22	1.95	0.48
3:C:157:CYS:SG	3:C:159:ILE:HD11	2.54	0.48
3:C:249:CYS:HB3	3:C:261:ILE:HG13	1.94	0.48
3:C:501:PRO:HD2	3:C:502:ARG:NH2	2.29	0.48
3:C:661:ALA:O	3:C:665:LYS:HG2	2.12	0.48
3:C:667:GLU:HA	3:C:670:GLN:OE1	2.13	0.48
1:F:86:LEU:HB3	1:F:129:ASP:HB3	1.95	0.48
1:F:229:SER:HA	1:F:278:HIS:CE1	2.48	0.48
1:F:237:SER:OG	1:F:238:MET:N	2.44	0.48
1:F:1095:LEU:HA	1:F:1099:PHE:CD2	2.48	0.48
1:F:2250:SER:HA	1:F:2291:GLN:NE2	2.28	0.48
1:F:3241:LYS:HA	1:F:3244:ASP:OD2	2.14	0.48
1:F:3263:HIS:O	1:F:3267:LYS:HG3	2.12	0.48
1:F:3568:ILE:HA	1:F:3571:PHE:CD2	2.48	0.48
1:F:3739:ILE:HA	1:F:3749:PRO:HA	1.95	0.48
1:F:3817:LEU:HD21	1:F:3825:LYS:HD3	1.94	0.48
1:F:3869:THR:HA	1:F:3872:ARG:NH1	2.29	0.48
1:F:4102:THR:HA	1:F:4105:LYS:NZ	2.29	0.48
2:G:367:PHE:HE1	2:G:431:GLY:HA3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:394:ARG:HH21	3:H:403:PRO:HB3	1.78	0.48
3:H:678:VAL:O	3:H:682:GLY:N	2.46	0.48
1:A:335:LYS:O	1:A:338:LEU:HG	2.14	0.48
1:A:738:HIS:HA	1:A:776:TRP:NE1	2.27	0.48
1:A:1183:CYS:HA	1:A:1186:LYS:HG2	1.96	0.48
1:A:2494:ASP:O	1:A:2498:ILE:HG12	2.13	0.48
1:A:2587:GLN:N	1:A:2587:GLN:OE1	2.46	0.48
1:A:3963:LEU:HA	1:A:3967:PHE:CE2	2.49	0.48
2:B:335:GLU:HA	2:B:338:LYS:HG2	1.96	0.48
2:B:471:PHE:CE1	2:B:506:LEU:HD21	2.48	0.48
3:C:509:GLN:NE2	3:C:511:HIS:HB3	2.29	0.48
3:C:612:ALA:H	3:C:615:GLN:HE22	1.60	0.48
1:F:12:LEU:HA	1:F:15:LEU:HD12	1.93	0.48
1:F:524:TYR:O	1:F:528:VAL:HG13	2.13	0.48
1:F:767:GLU:O	1:F:771:ASN:ND2	2.47	0.48
1:F:786:GLN:HA	1:F:789:TYR:CE2	2.47	0.48
1:F:1648:LEU:O	1:F:1652:ILE:HG12	2.13	0.48
1:F:1664:SER:HA	1:F:1669:PRO:HD3	1.96	0.48
1:F:1782:PHE:O	1:F:1785:ILE:HG12	2.13	0.48
1:F:3008:TRP:HD1	1:F:3011:LEU:HD22	1.78	0.48
1:F:3076:ALA:O	1:F:3080:LEU:HG	2.13	0.48
1:F:3120:LEU:HD21	1:F:3895:GLU:HB3	1.95	0.48
1:F:4113:ASP:O	1:F:4117:LEU:HG	2.14	0.48
3:H:464:ALA:HB2	3:H:475:ASP:HA	1.94	0.48
6:D:33:DA:H2	7:E:24:DA:C2	2.32	0.48
1:A:14:ARG:NH1	1:A:15:LEU:HG	2.28	0.48
1:A:389:ILE:HD13	1:A:431:TYR:HD2	1.78	0.48
1:A:434:VAL:O	1:A:438:LEU:HG	2.14	0.48
1:A:1041:ILE:HA	1:A:1044:ILE:HB	1.96	0.48
1:A:1071:ASN:ND2	1:A:1073:PHE:HB2	2.27	0.48
1:A:1110:SER:HA	1:A:1113:LEU:HD23	1.96	0.48
1:A:1377:CYS:SG	1:A:1378:GLU:N	2.87	0.48
1:A:1558:TYR:O	1:A:1562:LEU:HG	2.13	0.48
1:A:1897:ASN:O	1:A:1911:LEU:HG	2.13	0.48
1:A:2852:PRO:HG2	1:A:2853:PRO:HD3	1.96	0.48
1:A:3302:LYS:HD2	1:A:3305:SER:OG	2.13	0.48
1:A:3631:LYS:HZ1	1:A:3635:THR:HB	1.78	0.48
1:A:3700:GLU:OE2	1:A:3717:VAL:N	2.46	0.48
1:A:3988:LEU:HA	1:A:3991:PHE:CD2	2.49	0.48
1:A:4100:GLU:CD	1:A:4100:GLU:H	2.17	0.48
2:B:350:PHE:HB2	3:C:461:MET:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:216:GLU:HB3	3:C:219:ASP:HB3	1.95	0.48
1:F:295:GLU:OE2	1:F:296:VAL:HG13	2.13	0.48
1:F:305:ASN:OD1	1:F:307:GLU:HB3	2.13	0.48
1:F:926:THR:HG23	1:F:2800:ARG:NH2	2.25	0.48
1:F:1847:ALA:HA	1:F:1873:TYR:CD2	2.48	0.48
1:F:2314:GLU:OE2	1:F:2318:ALA:HB2	2.14	0.48
1:F:2586:PHE:HB2	1:F:2776:ARG:NE	2.28	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CZ	2.49	0.48
1:F:3495:PHE:HA	1:F:3498:TRP:HD1	1.78	0.48
1:F:3797:THR:HB	1:F:3800:LEU:HB3	1.95	0.48
2:G:299:LYS:H	3:H:293:THR:HG23	1.78	0.48
3:H:313:GLY:CA	3:H:322:PRO:HA	2.43	0.48
1:A:143:LEU:HD12	1:A:144:MET:SD	2.54	0.48
1:A:459:ARG:NH1	1:A:540:MET:SD	2.87	0.48
1:A:746:ARG:HB3	1:A:788:TYR:CE1	2.48	0.48
1:A:895:ALA:N	1:A:904:VAL:HG23	2.28	0.48
1:A:1146:ASN:O	1:A:1164:CYS:HB2	2.14	0.48
1:A:1361:LYS:HE3	1:A:1411:TYR:CZ	2.48	0.48
1:A:1887:ASP:O	1:A:1890:HIS:NE2	2.46	0.48
1:A:2210:VAL:HG23	1:A:2211:LEU:HG	1.96	0.48
1:A:2543:ASN:ND2	1:A:2836:LEU:HD11	2.29	0.48
2:B:285:PRO:HB3	3:C:314:PHE:HE1	1.79	0.48
2:B:461:LYS:HB3	2:B:527:GLU:CD	2.33	0.48
1:F:410:MET:HA	1:F:413:PHE:CD2	2.42	0.48
1:F:678:LYS:NZ	1:F:683:PHE:O	2.45	0.48
1:F:741:ILE:HD11	1:F:776:TRP:CD1	2.49	0.48
1:F:1098:GLN:NE2	1:F:1151:ARG:HG3	2.28	0.48
1:F:1656:ASP:HB2	1:F:1660:SER:OG	2.14	0.48
1:F:2197:THR:H	1:F:5009:UNK:H2	1.60	0.48
1:F:2313:LYS:HA	1:F:2316:TYR:CE1	2.48	0.48
1:F:2324:GLY:CA	1:F:2367:VAL:HG23	2.43	0.48
1:F:2382:VAL:O	1:F:2386:LEU:N	2.47	0.48
1:F:2410:GLU:O	1:F:2414:GLN:NE2	2.46	0.48
1:F:3295:GLU:O	1:F:3299:THR:HG23	2.13	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CE2	2.48	0.48
1:F:3940:ILE:HG22	1:F:3941:ASP:H	1.78	0.48
2:G:357:LYS:HG3	3:H:413:LYS:HZ1	1.79	0.48
3:H:232:ARG:HD2	3:H:477:PHE:CE1	2.49	0.48
3:H:600:VAL:O	3:H:604:GLN:HG2	2.13	0.48
3:H:708:LYS:HE3	3:H:710:LYS:HB2	1.96	0.48
1:A:211:ALA:CB	1:A:215:PRO:HB2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:303:HIS:H	1:A:309:LYS:HE3	1.79	0.48
1:A:575:ILE:O	1:A:578:LYS:HB3	2.13	0.48
1:A:605:THR:HG22	1:A:607:ASP:H	1.77	0.48
1:A:752:LEU:HD12	1:A:753:GLN:N	2.28	0.48
1:A:890:LYS:HE2	1:A:906:PHE:CD2	2.48	0.48
1:A:898:PHE:HE2	1:A:903:PRO:HD2	1.77	0.48
1:A:1061:LYS:HA	1:A:1064:TYR:HD2	1.79	0.48
1:A:1935:GLU:HA	1:A:1938:ARG:HG2	1.95	0.48
1:A:2518:GLN:O	1:A:2522:ARG:N	2.32	0.48
1:A:2771:LEU:HB3	1:A:2775:TYR:CE2	2.48	0.48
1:A:3136:THR:O	1:A:3139:GLN:NE2	2.45	0.48
1:A:3321:LEU:O	1:A:3324:ARG:HG3	2.13	0.48
1:A:3823:GLU:HG2	1:A:3824:GLU:H	1.78	0.48
1:A:3971:MET:HG3	1:A:3974:MET:SD	2.53	0.48
3:C:64:THR:HB	3:C:76:ASN:N	2.29	0.48
3:C:442:LYS:HG3	3:C:443:LYS:HD3	1.95	0.48
1:F:638:GLN:HE22	1:F:640:GLU:HB3	1.79	0.48
1:F:683:PHE:HE1	1:F:700:LYS:HB3	1.77	0.48
1:F:892:LEU:HD13	1:F:944:LYS:HG3	1.96	0.48
1:F:1181:THR:OG1	1:F:1265:GLU:OE1	2.24	0.48
1:F:2155:GLU:HA	1:F:2158:ARG:HG2	1.96	0.48
1:F:3006:ALA:HA	1:F:3008:TRP:CH2	2.49	0.48
1:F:3103:ILE:O	1:F:3106:GLY:N	2.47	0.48
1:F:3531:TYR:HB2	1:F:3532:PRO:HD3	1.95	0.48
1:F:3644:PHE:HA	1:F:3653:ARG:NH1	2.29	0.48
1:F:3835:PRO:HA	1:F:3839:TYR:HD2	1.79	0.48
1:F:3862:ALA:HB3	1:F:4119:ARG:HE	1.78	0.48
1:F:4085:LYS:HG3	1:F:4092:GLN:HG2	1.96	0.48
2:G:72:ILE:HA	2:G:75:ILE:HD12	1.96	0.48
3:H:552:GLU:CG	3:H:553:ILE:H	2.22	0.48
1:A:213:ARG:HB3	1:A:214:GLU:OE1	2.14	0.48
1:A:373:CYS:SG	1:A:381:VAL:HG12	2.54	0.48
1:A:380:ASP:HB3	3:C:574:ALA:O	2.13	0.48
1:A:1745:LYS:HA	1:A:1748:ASP:OD2	2.13	0.48
1:A:2216:LEU:O	1:A:2219:LEU:HB2	2.14	0.48
1:A:2412:TYR:HE1	1:A:2454:LEU:HD21	1.78	0.48
1:A:2512:ASP:OD2	1:A:2518:GLN:HG2	2.13	0.48
1:A:2773:ARG:NH1	1:A:2775:TYR:HA	2.28	0.48
1:A:3005:LEU:HA	1:A:3254:LEU:HD13	1.96	0.48
1:A:3897:PHE:O	1:A:3901:ARG:HG2	2.14	0.48
2:B:332:GLU:HA	2:B:335:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:483:LEU:HG	2:B:487:PHE:CE2	2.46	0.48
3:C:558:HIS:CD2	3:C:559:GLU:HG3	2.49	0.48
1:F:289:ASN:OD1	1:F:292:SER:HB2	2.14	0.48
1:F:746:ARG:HA	1:F:749:VAL:HG13	1.95	0.48
1:F:1225:GLU:CD	1:F:1234:GLY:HA3	2.34	0.48
1:F:1731:PRO:HA	1:F:1736:PHE:CD2	2.48	0.48
1:F:1801:VAL:HA	1:F:1804:MET:CE	2.43	0.48
1:F:2228:ARG:HG2	1:F:2232:ARG:HH22	1.77	0.48
1:F:3059:GLN:OE1	1:F:3063:THR:OG1	2.31	0.48
1:F:3148:GLN:O	1:F:3151:LEU:HG	2.14	0.48
1:F:3707:GLY:O	1:F:3708:ARG:NE	2.47	0.48
2:G:263:LEU:HD12	2:G:267:ILE:HD11	1.95	0.48
2:G:365:SER:HB2	2:G:435:VAL:HG12	1.95	0.48
3:H:11:VAL:HA	3:H:55:ALA:HB3	1.96	0.48
3:H:76:ASN:HB2	3:H:105:ALA:HB2	1.94	0.48
1:A:478:CYS:O	1:A:482:VAL:HG13	2.14	0.47
1:A:558:GLU:O	1:A:560:LEU:N	2.47	0.47
1:A:2105:HIS:ND1	1:A:2156:VAL:HG22	2.29	0.47
1:A:2174:SER:OG	1:A:2214:ARG:HG2	2.14	0.47
1:A:2225:HIS:HB2	1:A:2231:PHE:CB	2.45	0.47
1:A:2314:GLU:HA	1:A:2317:ALA:HB3	1.96	0.47
1:A:2808:LEU:O	1:A:2811:SER:OG	2.27	0.47
1:A:2851:PHE:HD2	1:A:2854:PHE:HB2	1.79	0.47
1:A:3007:GLU:OE2	1:A:3009:LYS:HB2	2.13	0.47
1:A:3031:TRP:O	1:A:3038:GLU:HG3	2.14	0.47
1:A:3083:SER:HA	1:A:3086:LEU:HB3	1.95	0.47
1:A:3103:ILE:O	1:A:3107:ILE:HG12	2.14	0.47
1:A:3530:VAL:HG22	1:A:3534:ILE:HD11	1.95	0.47
2:B:389:CYS:SG	2:B:415:PRO:HB2	2.54	0.47
3:C:131:HIS:NE2	3:C:239:LYS:HG2	2.29	0.47
3:C:262:ALA:N	3:C:365:PHE:O	2.33	0.47
3:C:612:ALA:H	3:C:615:GLN:NE2	2.12	0.47
1:F:738:HIS:HA	1:F:776:TRP:NE1	2.29	0.47
1:F:749:VAL:O	1:F:753:GLN:NE2	2.43	0.47
1:F:862:LEU:O	1:F:3167:ARG:NH2	2.47	0.47
1:F:1266:CYS:O	1:F:1269:THR:HG22	2.14	0.47
1:F:1367:HIS:CD2	1:F:1371:VAL:HG11	2.49	0.47
1:F:1785:ILE:N	1:F:1830:HIS:HE1	2.11	0.47
1:F:2149:LEU:O	1:F:2153:THR:N	2.47	0.47
1:F:2508:GLN:HA	1:F:2550:ILE:HD11	1.95	0.47
1:F:3232:ARG:NH2	1:F:3265:GLU:O	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3503:VAL:HG11	1:F:3532:PRO:HB3	1.95	0.47
1:F:3966:GLN:O	1:F:3969:ASN:HB2	2.14	0.47
2:G:376:ILE:HB	3:H:540:ILE:HG21	1.95	0.47
2:G:533:ASP:HA	3:H:260:ARG:CZ	2.44	0.47
3:H:39:THR:HG21	3:H:95:GLU:HB2	1.95	0.47
3:H:111:LEU:HD13	3:H:150:ILE:HD13	1.96	0.47
7:E:27:DC:H2'	7:E:28:DT:H6	1.78	0.47
1:A:360:SER:HA	1:A:363:ILE:HG12	1.96	0.47
1:A:378:ALA:O	1:A:381:VAL:HG22	2.14	0.47
1:A:565:TYR:HA	1:A:568:PHE:HD2	1.80	0.47
1:A:1066:LEU:O	1:A:1074:LYS:HB3	2.15	0.47
1:A:1244:LEU:HD11	1:A:1248:PHE:HA	1.96	0.47
1:A:1344:PHE:O	1:A:1347:THR:OG1	2.21	0.47
1:A:2803:ILE:H	1:A:2803:ILE:HD12	1.79	0.47
1:A:2804:ILE:O	1:A:2808:LEU:HG	2.14	0.47
1:A:2930:TYR:O	1:A:2934:GLY:N	2.44	0.47
1:A:3008:TRP:HB2	1:A:3051:LEU:HG	1.97	0.47
1:A:3820:MET:O	1:A:3822:GLN:N	2.46	0.47
2:B:297:LYS:NZ	3:C:294:VAL:HG23	2.27	0.47
2:B:301:ARG:HH21	2:B:310:LEU:HD11	1.79	0.47
2:B:413:LEU:HD21	2:B:432:PHE:HD1	1.79	0.47
3:C:131:HIS:CE1	3:C:239:LYS:HE3	2.49	0.47
3:C:168:SER:OG	3:C:226:SER:N	2.39	0.47
1:F:560:LEU:HA	1:F:563:LEU:HB2	1.96	0.47
1:F:649:PHE:CE2	1:F:673:THR:HG21	2.48	0.47
1:F:871:LEU:O	1:F:873:VAL:HG22	2.14	0.47
1:F:1337:VAL:O	1:F:1341:ILE:HG12	2.14	0.47
1:F:1367:HIS:CE1	1:F:1371:VAL:HG21	2.48	0.47
1:F:1837:ARG:NE	1:F:1888:ASP:OD2	2.46	0.47
1:F:2100:LEU:O	1:F:2104:MET:HG2	2.13	0.47
1:F:2412:TYR:HE2	1:F:2450:GLU:OE1	1.97	0.47
1:F:2527:HIS:HB3	1:F:2530:ARG:NH1	2.28	0.47
1:F:3139:GLN:HA	1:F:3142:ILE:HD12	1.95	0.47
1:F:3170:ASP:OD2	1:F:3173:MET:HG2	2.14	0.47
1:F:3652:LEU:HD12	1:F:3655:LYS:HZ3	1.79	0.47
1:F:3701:ILE:HG13	1:F:3719:ILE:HG13	1.96	0.47
1:F:3759:ARG:HG3	1:F:3760:GLN:H	1.78	0.47
1:F:3924:HIS:CD2	1:F:3926:ASN:HB2	2.49	0.47
1:F:4074:PHE:O	1:F:4078:VAL:HG23	2.13	0.47
2:G:410:PHE:HB2	2:G:439:PHE:HE1	1.79	0.47
2:G:416:GLN:CD	3:H:354:ARG:HH22	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:TYR:O	1:A:343:GLU:HG3	2.14	0.47
1:A:472:GLY:N	1:A:473:PRO:HD2	2.29	0.47
1:A:911:LEU:O	1:A:915:THR:HG23	2.15	0.47
1:A:1055:ASN:HD21	1:A:1057:LYS:HE2	1.80	0.47
1:A:1651:LYS:O	1:A:1654:GLN:N	2.47	0.47
1:A:3027:LEU:O	1:A:3064:PHE:HD1	1.97	0.47
1:A:3031:TRP:C	1:A:3034:PRO:HD2	2.35	0.47
1:A:3072:GLU:CG	1:A:3073:LEU:H	2.20	0.47
1:A:3572:ILE:HA	1:A:3575:LEU:HD12	1.96	0.47
1:A:3586:LYS:NZ	1:A:3671:ASN:HB3	2.29	0.47
1:A:3971:MET:HG2	1:A:3976:GLU:HA	1.96	0.47
3:C:450:GLN:O	3:C:454:VAL:HG23	2.14	0.47
3:C:605:LYS:HB3	3:C:609:PHE:CD2	2.49	0.47
1:F:292:SER:O	1:F:296:VAL:HG22	2.14	0.47
1:F:337:LYS:O	1:F:341:PHE:N	2.44	0.47
1:F:678:LYS:HE2	1:F:678:LYS:HA	1.96	0.47
1:F:855:VAL:O	1:F:859:LEU:HG	2.14	0.47
1:F:866:ILE:O	1:F:869:ASN:ND2	2.37	0.47
1:F:913:ARG:CZ	1:F:2803:ILE:HG21	2.44	0.47
1:F:1081:ALA:O	1:F:1085:ILE:HG12	2.14	0.47
1:F:1103:ALA:O	1:F:1106:ILE:HG22	2.15	0.47
1:F:1326:GLU:HG3	1:F:1329:ARG:NH2	2.28	0.47
1:F:1529:VAL:CG1	1:F:1581:GLU:HB2	2.44	0.47
1:F:1791:CYS:HB2	1:F:1835:ALA:HB2	1.97	0.47
1:F:2492:ASP:O	1:F:2496:GLN:NE2	2.47	0.47
1:F:2942:ILE:O	1:F:2946:GLU:N	2.31	0.47
1:F:2976:LEU:O	1:F:2979:GLN:NE2	2.48	0.47
1:F:3164:TRP:HB3	1:F:3186:ARG:NH2	2.25	0.47
1:F:3176:MET:HA	1:F:3179:TRP:HD1	1.76	0.47
1:F:3455:LYS:HA	1:F:3491:PRO:HD3	1.96	0.47
1:F:3772:ASN:OD1	1:F:3788:LEU:HB3	2.14	0.47
1:F:3929:MET:N	1:F:3929:MET:SD	2.87	0.47
1:F:4014:LYS:O	1:F:4018:GLN:HG2	2.14	0.47
2:G:273:ILE:HA	2:G:368:VAL:HA	1.97	0.47
2:G:350:PHE:CD2	3:H:458:ILE:HA	2.49	0.47
2:G:350:PHE:HD2	3:H:458:ILE:HA	1.79	0.47
3:H:481:LYS:O	3:H:481:LYS:HD3	2.14	0.47
3:H:647:ILE:HG12	3:H:652:GLU:HA	1.95	0.47
1:A:374:LYS:HZ1	1:A:424:LEU:HA	1.79	0.47
1:A:396:PHE:CZ	1:A:406:ARG:HB2	2.49	0.47
1:A:573:LEU:O	1:A:576:VAL:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1020:PRO:HA	1:A:1073:PHE:CD1	2.49	0.47
1:A:1425:ALA:HB2	1:A:1467:ILE:HG13	1.95	0.47
1:A:1886:LYS:HE3	1:A:1955:VAL:HG23	1.94	0.47
1:A:2471:GLU:HA	1:A:2474:TYR:CD2	2.49	0.47
1:A:3090:TYR:HB3	1:A:3099:ALA:HB2	1.96	0.47
1:A:3538:GLU:OE1	1:A:3538:GLU:N	2.48	0.47
2:B:289:TYR:HB3	2:B:293:ASN:H	1.79	0.47
1:F:849:GLU:O	1:F:853:ILE:HG13	2.14	0.47
1:F:1840:PHE:O	1:F:1844:VAL:HG23	2.15	0.47
1:F:2358:ASP:OD1	1:F:2358:ASP:N	2.48	0.47
1:F:2874:ALA:HA	1:F:2925:GLU:OE1	2.14	0.47
1:F:3301:LEU:O	1:F:3305:SER:N	2.47	0.47
1:F:3494:GLN:HB3	1:F:3709:GLY:HA2	1.95	0.47
1:F:3584:LEU:O	1:F:3612:ARG:NH1	2.46	0.47
1:F:4104:VAL:O	1:F:4107:LEU:HB2	2.14	0.47
2:G:322:TYR:HE2	3:H:494:LEU:HD21	1.79	0.47
3:H:509:GLN:NE2	3:H:511:HIS:HB2	2.29	0.47
1:A:61:ARG:HH11	1:A:62:ASP:CG	2.18	0.47
1:A:295:GLU:HA	1:A:298:LEU:HB3	1.95	0.47
1:A:568:PHE:O	1:A:571:SER:N	2.47	0.47
1:A:2159:PRO:HG2	1:A:2160:TYR:CD1	2.49	0.47
1:A:2587:GLN:O	1:A:2776:ARG:HG3	2.14	0.47
1:A:3036:TYR:HB3	1:A:3040:TYR:CE2	2.48	0.47
3:C:163:PHE:CE1	3:C:212:MET:HG2	2.49	0.47
3:C:271:ARG:HH21	3:C:273:LYS:HA	1.79	0.47
1:F:289:ASN:O	1:F:293:LEU:HG	2.14	0.47
1:F:327:VAL:HA	1:F:330:ASN:HB3	1.96	0.47
1:F:1711:ARG:HA	1:F:1714:LEU:HD12	1.95	0.47
1:F:1837:ARG:O	1:F:1841:SER:N	2.37	0.47
1:F:2211:LEU:HB3	1:F:2214:ARG:HH21	1.79	0.47
1:F:2588:GLU:CD	1:F:2776:ARG:HH22	2.18	0.47
1:F:2831:ASN:O	1:F:2835:LYS:HG2	2.14	0.47
1:F:3103:ILE:O	1:F:3107:ILE:HD12	2.12	0.47
1:F:3486:GLU:C	1:F:3488:SER:H	2.17	0.47
1:F:3751:LEU:HD22	1:F:3803:ILE:HD11	1.95	0.47
3:H:42:VAL:HG13	3:H:91:LEU:HD22	1.96	0.47
3:H:355:PHE:HD2	3:H:425:PRO:HG2	1.78	0.47
3:H:624:LEU:HD11	3:H:669:LYS:HE3	1.97	0.47
4:J:30:DT:H2'	4:J:31:DT:C4	2.50	0.47
4:J:38:DG:N2	5:I:19:DC:O4'	2.47	0.47
6:D:32:DT:O2	7:E:25:DA:C2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:GLN:HA	1:A:207:GLN:NE2	2.30	0.47
1:A:288:ASP:N	1:A:288:ASP:OD1	2.46	0.47
1:A:642:PHE:HE1	1:A:649:PHE:CE2	2.32	0.47
1:A:887:ASP:CG	1:A:3889:ARG:HH21	2.17	0.47
1:A:1024:THR:HA	1:A:1027:ASP:HB2	1.96	0.47
1:A:1416:GLU:O	1:A:1419:LEU:HB3	2.15	0.47
1:A:2122:LEU:HA	1:A:2126:MET:CE	2.42	0.47
1:A:2350:LYS:HA	1:A:2360:PHE:CZ	2.50	0.47
1:A:2958:LEU:O	1:A:2962:ARG:N	2.36	0.47
1:A:3249:GLN:HE22	1:A:3780:ALA:HA	1.79	0.47
1:A:3677:PRO:HG3	1:A:3736:LYS:HE3	1.96	0.47
1:A:3838:GLU:HB3	1:A:3874:ARG:HD2	1.95	0.47
1:A:3849:LYS:HD2	1:A:3851:ASP:HB2	1.97	0.47
1:A:4007:LYS:HD3	1:A:4044:ILE:HG21	1.96	0.47
2:B:90:THR:H	2:B:101:ASN:HD22	1.62	0.47
2:B:262:LYS:HG3	2:B:345:LEU:O	2.15	0.47
2:B:412:ALA:N	2:B:435:VAL:O	2.47	0.47
1:F:242:PRO:HB3	1:F:246:ARG:NH2	2.28	0.47
1:F:428:PRO:HB2	1:F:430:VAL:HG12	1.95	0.47
1:F:655:LEU:HD21	1:F:659:ARG:HH21	1.78	0.47
1:F:753:GLN:H	1:F:753:GLN:CD	2.17	0.47
1:F:886:TRP:CE2	1:F:964:ARG:HD2	2.50	0.47
1:F:1049:GLN:O	1:F:1055:ASN:ND2	2.47	0.47
1:F:1064:TYR:CE1	1:F:1106:ILE:HG21	2.50	0.47
1:F:1482:GLU:OE1	1:F:1482:GLU:N	2.36	0.47
1:F:1978:PHE:O	1:F:1979:GLU:HG3	2.15	0.47
1:F:2392:VAL:O	1:F:2396:LEU:HG	2.15	0.47
1:F:2548:PRO:HB2	1:F:2847:THR:HA	1.96	0.47
1:F:2572:TYR:CZ	1:F:2788:SER:HA	2.49	0.47
3:H:605:LYS:HB3	3:H:609:PHE:HZ	1.79	0.47
3:H:623:PHE:CE1	3:H:627:ASN:HA	2.49	0.47
5:I:38:DT:H2 [?]	5:I:39:DA:N7	2.28	0.47
1:A:479:ILE:O	1:A:483:VAL:HG12	2.14	0.47
1:A:493:LYS:HG3	1:A:494:PRO:HD2	1.97	0.47
1:A:531:PHE:CE2	1:A:633:ILE:HD13	2.49	0.47
1:A:697:ASP:HB2	1:A:700:LYS:HZ3	1.79	0.47
1:A:921:ALA:H	1:A:927:LYS:HZ2	1.62	0.47
1:A:966:PHE:HA	1:A:969:LEU:HB3	1.96	0.47
1:A:1013:ILE:O	1:A:1017:ILE:HG12	2.15	0.47
1:A:1034:ARG:HG3	1:A:1088:GLU:HG2	1.96	0.47
1:A:1136:ARG:HG3	1:A:1140:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1212:LEU:HA	1:A:1219:PHE:CG	2.50	0.47
1:A:1235:ILE:HG13	1:A:1259:LEU:HB3	1.96	0.47
1:A:1371:VAL:O	1:A:1375:THR:HG23	2.13	0.47
1:A:1748:ASP:OD1	1:A:1749:ALA:N	2.47	0.47
1:A:1802:TYR:CD2	1:A:1806:ARG:NH1	2.82	0.47
1:A:2092:GLU:CD	1:A:2092:GLU:H	2.16	0.47
1:A:2420:PHE:HZ	1:A:2435:CYS:HB3	1.80	0.47
1:A:3002:TYR:HB3	1:A:3011:LEU:CD1	2.45	0.47
1:A:3075:LYS:HA	1:A:3078:LEU:HB2	1.96	0.47
1:A:3160:LEU:HG	1:A:3164:TRP:CZ3	2.50	0.47
1:A:3294:SER:O	1:A:3298:LEU:HG	2.15	0.47
1:A:3729:MET:SD	1:A:3735:PRO:HG2	2.55	0.47
1:A:3736:LYS:O	1:A:3751:LEU:HA	2.14	0.47
1:A:3768:PHE:HD2	1:A:3790:THR:HG21	1.78	0.47
1:A:4013:TRP:HB2	1:A:4038:TRP:CG	2.49	0.47
1:A:4089:ILE:HA	1:A:4092:GLN:HE22	1.78	0.47
1:A:4089:ILE:HD13	1:A:4092:GLN:HE22	1.79	0.47
2:B:317:LYS:NZ	2:B:328:ILE:O	2.47	0.47
3:C:56:LEU:HD23	3:C:80:HIS:HB3	1.97	0.47
3:C:616:LEU:HD13	3:C:619:HIS:CE1	2.49	0.47
1:F:111:CYS:O	1:F:115:TYR:HB2	2.15	0.47
1:F:483:VAL:HG21	1:F:567:GLU:HB2	1.97	0.47
1:F:540:MET:O	1:F:544:ILE:HG12	2.14	0.47
1:F:744:ASP:OD1	1:F:747:ALA:N	2.47	0.47
1:F:1374:GLN:HG3	1:F:1422:LYS:HE2	1.96	0.47
1:F:1565:GLU:OE1	1:F:1565:GLU:N	2.38	0.47
1:F:1614:GLN:O	1:F:1618:LEU:HD23	2.14	0.47
1:F:1850:VAL:HG22	1:F:1870:LYS:HG2	1.95	0.47
1:F:2216:LEU:HA	1:F:2219:LEU:HD12	1.96	0.47
1:F:2230:VAL:HA	1:F:2233:HIS:HB2	1.97	0.47
1:F:2243:GLU:OE1	1:F:2283:ASN:ND2	2.48	0.47
1:F:2376:ASP:N	1:F:2376:ASP:OD1	2.48	0.47
1:F:2494:ASP:HA	1:F:2497:GLU:OE2	2.13	0.47
1:F:2928:LYS:HA	1:F:2931:ARG:HG2	1.96	0.47
1:F:2938:VAL:O	1:F:2942:ILE:HG12	2.14	0.47
1:F:3081:HIS:HB2	1:F:3082:TYR:CZ	2.49	0.47
1:F:3954:PRO:HD3	1:F:4027:TRP:HZ3	1.80	0.47
1:F:4055:ASN:HB3	1:F:4058:VAL:HG23	1.96	0.47
1:F:4099:SER:O	1:F:4103:GLN:HG3	2.14	0.47
5:I:30:DA:C6	5:I:31:DA:N6	2.82	0.47
1:A:14:ARG:O	1:A:18:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:MET:HA	1:A:413:PHE:HD2	1.78	0.47
1:A:750:PRO:O	1:A:754:MET:HG2	2.14	0.47
1:A:3772:ASN:O	1:A:3775:LEU:HB3	2.14	0.47
1:A:3775:LEU:HD21	1:A:3786:LEU:O	2.15	0.47
1:A:3789:ARG:HH22	1:A:3791:TYR:N	2.13	0.47
1:A:3913:ILE:HB	1:A:3984:MET:SD	2.55	0.47
1:A:4045:CYS:O	1:A:4049:ARG:HG2	2.15	0.47
2:B:85:VAL:HG22	2:B:106:GLN:HG3	1.97	0.47
2:B:350:PHE:CE2	3:C:458:ILE:HA	2.49	0.47
3:C:496:HIS:CE1	3:C:507:PRO:HD3	2.50	0.47
3:C:651:GLU:HB3	3:C:654:ARG:HG2	1.97	0.47
3:C:666:VAL:HG23	3:C:675:TRP:HD1	1.79	0.47
1:F:87:LYS:O	1:F:91:ILE:HG12	2.15	0.47
1:F:797:ASP:N	1:F:797:ASP:OD1	2.46	0.47
1:F:1515:LEU:HD12	1:F:1519:PHE:HE2	1.79	0.47
1:F:1772:HIS:CD2	1:F:1773:VAL:HG13	2.50	0.47
1:F:2299:TYR:O	1:F:2303:LEU:HG	2.15	0.47
1:F:3100:LYS:HA	1:F:3103:ILE:HD12	1.96	0.47
1:F:3123:GLN:O	1:F:3126:LEU:HB2	2.14	0.47
1:F:3465:PHE:HE2	1:F:3501:HIS:CB	2.28	0.47
1:F:3965:ARG:HG3	1:F:3969:ASN:OD1	2.15	0.47
1:A:175:TYR:HB3	1:A:227:LEU:CD1	2.41	0.47
1:A:243:GLN:CG	1:A:246:ARG:HH21	2.27	0.47
1:A:410:MET:HA	1:A:413:PHE:CD2	2.50	0.47
1:A:485:GLN:O	1:A:489:ARG:HG2	2.15	0.47
1:A:522:PRO:O	1:A:523:THR:OG1	2.31	0.47
1:A:710:PHE:HA	1:A:713:GLU:OE2	2.15	0.47
1:A:712:LYS:HE2	1:A:712:LYS:HA	1.97	0.47
1:A:785:MET:CB	1:A:789:TYR:HE1	2.27	0.47
1:A:1257:LEU:HD13	1:A:1333:SER:HB2	1.97	0.47
1:A:3001:CYS:HA	1:A:3004:HIS:HB2	1.96	0.47
1:A:3588:TRP:O	1:A:3592:VAL:HG23	2.15	0.47
1:A:3810:VAL:H	1:A:3930:VAL:H	1.61	0.47
1:A:3932:MET:SD	1:A:3932:MET:N	2.88	0.47
2:B:48:MET:HA	2:B:59:PRO:HG2	1.96	0.47
2:B:161:MET:CE	2:B:164:LYS:HB3	2.45	0.47
3:C:74:TYR:CD1	3:C:113:VAL:HG22	2.50	0.47
3:C:626:THR:HG23	3:C:632:PHE:CD2	2.50	0.47
1:F:105:VAL:HA	1:F:108:LYS:HZ3	1.80	0.47
1:F:249:PHE:O	1:F:252:VAL:HB	2.15	0.47
1:F:564:LEU:O	1:F:568:PHE:HD2	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:790:LYS:HA	1:F:869:ASN:HB3	1.95	0.47
1:F:925:GLN:HB2	1:F:2800:ARG:NH1	2.30	0.47
1:F:1582:LEU:HD12	1:F:1593:VAL:HG12	1.96	0.47
1:F:1732:GLY:HA2	1:F:1737:ASN:HD21	1.80	0.47
1:F:1848:ILE:HD13	1:F:1899:VAL:HG12	1.96	0.47
1:F:1922:ALA:HB1	1:F:1940:TYR:HE2	1.79	0.47
1:F:2402:LEU:HD12	1:F:2438:ILE:HG13	1.96	0.47
1:F:3759:ARG:NH2	1:F:4015:ASN:HB3	2.30	0.47
2:G:306:SER:N	3:H:288:ASP:OD1	2.48	0.47
3:H:234:LEU:HD11	3:H:483:PRO:HG3	1.97	0.47
1:A:193:ALA:HB1	1:A:197:PHE:CZ	2.50	0.47
1:A:331:ALA:O	1:A:335:LYS:N	2.48	0.47
1:A:456:VAL:HA	1:A:459:ARG:HG3	1.97	0.47
1:A:1089:PHE:CE2	1:A:1096:VAL:HG12	2.50	0.47
1:A:1090:ARG:HA	1:A:1137:ILE:HD11	1.96	0.47
1:A:1329:ARG:HA	1:A:1329:ARG:NE	2.30	0.47
1:A:1364:CYS:HA	1:A:1368:LEU:HD23	1.95	0.47
1:A:1890:HIS:O	1:A:1895:LYS:HB2	2.16	0.47
1:A:2092:GLU:OE1	1:A:2092:GLU:N	2.47	0.47
1:A:2102:LYS:O	1:A:2106:ARG:HG2	2.15	0.47
1:A:2300:PHE:O	1:A:2303:LEU:HB2	2.15	0.47
1:A:2530:ARG:HG3	1:A:2531:LEU:CD1	2.45	0.47
1:A:3693:GLU:OE2	1:A:3696:ARG:HD3	2.15	0.47
1:A:3737:ARG:CA	1:A:3751:LEU:HD13	2.45	0.47
1:A:3945:ALA:O	1:A:3947:GLY:N	2.48	0.47
1:A:3987:ALA:HB1	1:A:3991:PHE:CZ	2.50	0.47
1:A:4021:LEU:HD12	1:A:4022:LYS:N	2.30	0.47
2:B:238:LYS:O	2:B:242:LEU:HG	2.14	0.47
2:B:385:LEU:HD12	2:B:388:LYS:HB3	1.96	0.47
3:C:130:ARG:HB3	3:C:159:ILE:HG23	1.97	0.47
3:C:293:THR:HG22	3:C:295:TYR:HE1	1.79	0.47
3:C:413:LYS:HG2	3:C:414:HIS:N	2.30	0.47
1:F:763:THR:N	1:F:764:PRO:HD2	2.30	0.47
1:F:1104:LEU:O	1:F:1108:MET:HG2	2.15	0.47
1:F:1307:ILE:HG21	1:F:1311:LYS:HZ1	1.80	0.47
1:F:1558:TYR:CE2	1:F:1562:LEU:HD11	2.50	0.47
1:F:2157:PHE:O	1:F:2160:TYR:N	2.47	0.47
1:F:2406:GLU:OE1	1:F:2406:GLU:N	2.43	0.47
1:F:2578:GLU:C	1:F:2784:GLN:HE22	2.17	0.47
1:F:2803:ILE:H	1:F:2803:ILE:HD12	1.80	0.47
1:F:2889:GLY:O	1:F:2892:LEU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3153:SER:O	1:F:3156:PRO:HD2	2.15	0.47
3:H:56:LEU:HD23	3:H:81:ARG:HB2	1.97	0.47
3:H:271:ARG:H	3:H:273:LYS:NZ	2.13	0.47
3:H:675:TRP:HA	3:H:678:VAL:HB	1.97	0.47
1:A:81:CYS:HA	1:A:84:GLU:OE2	2.15	0.46
1:A:81:CYS:O	1:A:85:ILE:HG12	2.16	0.46
1:A:101:ALA:O	1:A:104:SER:N	2.48	0.46
1:A:279:ALA:O	1:A:322:GLN:NE2	2.48	0.46
1:A:345:PHE:O	1:A:349:ILE:HG22	2.15	0.46
1:A:1107:TYR:CZ	1:A:1130:ALA:HB3	2.50	0.46
1:A:1142:HIS:CE1	1:A:1146:ASN:HD21	2.33	0.46
1:A:1311:LYS:HZ3	1:A:1313:PHE:HZ	1.63	0.46
1:A:1837:ARG:O	1:A:1840:PHE:HB3	2.15	0.46
1:A:1871:MET:HE1	1:A:1936:ARG:O	2.15	0.46
1:A:2196:TRP:HB2	1:A:2199:LEU:HB2	1.97	0.46
1:A:2273:GLY:O	1:A:2276:LEU:HB3	2.15	0.46
1:A:2776:ARG:HH21	1:A:2782:ASP:CG	2.18	0.46
1:A:3001:CYS:O	1:A:3005:LEU:N	2.48	0.46
1:A:4013:TRP:HB2	1:A:4038:TRP:CD2	2.50	0.46
3:C:335:SER:OG	3:C:398:ASP:O	2.29	0.46
1:F:216:LYS:HB3	1:F:219:VAL:HB	1.97	0.46
1:F:266:ALA:HB2	1:F:305:ASN:HD21	1.80	0.46
1:F:338:LEU:O	1:F:341:PHE:HB3	2.15	0.46
1:F:575:ILE:O	1:F:579:LEU:HD23	2.15	0.46
1:F:656:GLN:HA	1:F:659:ARG:HD2	1.98	0.46
1:F:1071:ASN:HD22	1:F:1074:LYS:NZ	2.12	0.46
1:F:1141:LYS:O	1:F:1141:LYS:HG3	2.14	0.46
1:F:1395:LEU:N	1:F:1396:PRO:HD3	2.30	0.46
1:F:1406:LEU:HD13	1:F:1415:LEU:HD21	1.96	0.46
1:F:2253:TYR:HE2	1:F:2289:ASP:H	1.62	0.46
1:F:2295:GLN:HG3	1:F:2297:SER:OG	2.14	0.46
1:F:2474:TYR:O	1:F:2478:MET:HG3	2.14	0.46
1:F:3749:PRO:O	1:F:3805:TRP:HB3	2.15	0.46
1:F:3771:MET:O	1:F:3775:LEU:HG	2.15	0.46
3:H:68:LEU:HD22	3:H:116:ASP:OD2	2.15	0.46
3:H:232:ARG:HH12	3:H:519:PRO:HD3	1.80	0.46
3:H:726:ASP:HA	3:H:729:LEU:HD12	1.97	0.46
1:A:254:LYS:O	1:A:258:PRO:HD3	2.15	0.46
1:A:465:PHE:CE1	1:A:482:VAL:HG21	2.50	0.46
1:A:740:ILE:HG13	1:A:741:ILE:N	2.30	0.46
1:A:785:MET:HB3	1:A:789:TYR:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:849:GLU:O	1:A:853:ILE:N	2.39	0.46
1:A:1653:LEU:HG	1:A:1698:PHE:HD2	1.80	0.46
1:A:2894:GLU:O	1:A:2898:LEU:HG	2.15	0.46
1:A:3190:LEU:O	1:A:3193:ILE:HG12	2.15	0.46
1:A:3559:LYS:HG2	1:A:3564:GLN:OE1	2.16	0.46
1:A:3667:LEU:O	1:A:3671:ASN:ND2	2.48	0.46
1:A:4047:ALA:HA	1:A:4050:LYS:HG2	1.96	0.46
1:F:13:LEU:O	1:F:16:GLN:HG3	2.16	0.46
1:F:449:TYR:HB3	1:F:453:MET:SD	2.55	0.46
1:F:915:THR:O	1:F:919:LEU:HG	2.15	0.46
1:F:1404:LYS:CA	1:F:1407:LYS:HZ3	2.26	0.46
1:F:2924:VAL:O	1:F:2928:LYS:HG2	2.15	0.46
1:F:3121:LEU:HB3	1:F:3124:SER:OG	2.15	0.46
1:F:3379:GLN:O	1:F:3382:PHE:HB3	2.15	0.46
1:F:3668:LEU:O	1:F:3672:LYS:NZ	2.41	0.46
2:G:130:ARG:NH2	2:G:133:ASP:OD2	2.47	0.46
3:H:23:SER:HB3	3:H:29:SER:HA	1.98	0.46
6:D:16:DA:C6	7:E:42:DA:N1	2.83	0.46
1:A:43:VAL:HG13	1:A:823:GLN:O	2.16	0.46
1:A:329:LYS:HG2	1:A:329:LYS:O	2.14	0.46
1:A:341:PHE:O	1:A:345:PHE:HB2	2.15	0.46
1:A:741:ILE:HD13	1:A:776:TRP:CZ2	2.50	0.46
1:A:817:ALA:HA	1:A:820:ARG:HE	1.79	0.46
1:A:1708:GLU:H	1:A:1708:GLU:CD	2.14	0.46
1:A:2105:HIS:CD2	1:A:2156:VAL:HG13	2.50	0.46
1:A:2414:GLN:HA	2:B:148:TRP:HZ2	1.81	0.46
1:A:2546:TYR:HA	1:A:2554:PHE:HZ	1.81	0.46
1:A:3263:HIS:O	1:A:3267:LYS:HG3	2.15	0.46
1:A:3310:ASN:ND2	1:A:3311:ASN:O	2.48	0.46
1:A:3467:ARG:HA	1:A:3470:GLN:NE2	2.31	0.46
2:B:325:ARG:NH2	2:B:326:GLN:O	2.48	0.46
2:B:365:SER:HB2	2:B:435:VAL:HA	1.96	0.46
3:C:164:PHE:HD1	3:C:225:TYR:H	1.62	0.46
3:C:643:ARG:HB2	3:C:655:PHE:CE1	2.50	0.46
3:C:651:GLU:HA	3:C:653:GLN:NE2	2.31	0.46
1:F:48:PRO:HB2	1:F:840:LEU:HD11	1.97	0.46
1:F:1539:SER:HA	1:F:1551:ILE:O	2.15	0.46
1:F:1646:LEU:HD13	1:F:1649:LEU:HD12	1.96	0.46
1:F:1881:TYR:HB2	1:F:1950:SER:CB	2.45	0.46
1:F:1900:PHE:HB2	1:F:1905:ILE:HG22	1.97	0.46
1:F:2182:ILE:HD12	1:F:2182:ILE:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2379:MET:O	1:F:2382:VAL:HG12	2.14	0.46
1:F:2389:PHE:H	1:F:2394:LYS:HZ3	1.63	0.46
1:F:3554:PHE:HD1	1:F:3557:ARG:NE	2.13	0.46
1:F:3556:ALA:HA	1:F:3559:LYS:NZ	2.29	0.46
1:F:3848:GLY:HA3	1:F:3858:MET:SD	2.55	0.46
2:G:410:PHE:CE2	3:H:482:ILE:HG13	2.49	0.46
3:H:659:LEU:HB3	3:H:688:LYS:NZ	2.31	0.46
1:A:119:ARG:O	1:A:123:CYS:N	2.48	0.46
1:A:789:TYR:CD2	1:A:866:ILE:HG21	2.51	0.46
1:A:965:THR:O	1:A:969:LEU:N	2.45	0.46
1:A:1050:GLU:OE2	1:A:1051:LYS:NZ	2.43	0.46
1:A:1676:ILE:HG12	1:A:1710:LEU:HD21	1.97	0.46
1:A:1931:ASN:CB	1:A:1937:ARG:HH21	2.28	0.46
1:A:2877:SER:HB2	1:A:2928:LYS:CE	2.43	0.46
1:A:2884:LEU:HA	1:A:2886:GLN:HE22	1.79	0.46
2:B:412:ALA:O	2:B:434:LEU:HD12	2.14	0.46
3:C:18:PHE:N	3:C:101:GLY:O	2.47	0.46
3:C:558:HIS:HD2	3:C:559:GLU:HG3	1.81	0.46
1:F:71:LYS:HG2	1:F:78:PHE:CE2	2.50	0.46
1:F:753:GLN:OE1	1:F:792:ILE:HG13	2.16	0.46
1:F:1225:GLU:OE2	1:F:1235:ILE:N	2.48	0.46
1:F:1776:GLU:HG2	1:F:1777:LEU:HD22	1.97	0.46
1:F:2466:SER:OG	1:F:2469:CYS:SG	2.43	0.46
1:F:2534:ASN:HB3	1:F:2537:ASP:CB	2.46	0.46
1:F:3288:SER:OG	1:F:3992:ARG:NH2	2.49	0.46
1:F:3315:TYR:HD1	1:F:3318:LYS:HB2	1.80	0.46
1:F:3603:LYS:HG2	1:F:3610:TYR:OH	2.15	0.46
1:F:3650:LYS:HZ1	1:F:3653:ARG:HD3	1.80	0.46
1:F:3750:PHE:HA	1:F:3805:TRP:N	2.25	0.46
3:H:623:PHE:CE1	3:H:632:PHE:HB3	2.50	0.46
1:A:75:SER:HB3	1:A:78:PHE:HB2	1.98	0.46
1:A:623:PHE:O	1:A:627:VAL:HG23	2.15	0.46
1:A:1301:ILE:HG22	1:A:1302:ALA:H	1.79	0.46
1:A:1361:LYS:HA	1:A:1364:CYS:SG	2.56	0.46
1:A:1973:LYS:HB2	1:A:2142:ILE:HD11	1.96	0.46
1:A:2213:ASN:O	1:A:2216:LEU:HB2	2.15	0.46
1:A:2840:PHE:HA	1:A:2843:PHE:CD2	2.50	0.46
1:A:3097:ASP:N	1:A:3097:ASP:OD1	2.44	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CE3	2.50	0.46
1:A:3603:LYS:HD3	1:A:3654:MET:O	2.16	0.46
1:A:3913:ILE:HG12	1:A:3917:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:499:GLU:OE1	2:B:502:GLN:HB2	2.15	0.46
3:C:354:ARG:HG3	3:C:354:ARG:HH11	1.79	0.46
1:F:1613:HIS:HA	1:F:1616:LEU:HB2	1.96	0.46
1:F:1733:THR:HB	1:F:1735:ARG:NH1	2.31	0.46
1:F:2136:PRO:O	1:F:2143:ARG:NH1	2.48	0.46
1:F:2158:ARG:NH2	1:F:2196:TRP:HB3	2.30	0.46
1:F:2176:ASN:ND2	1:F:2179:GLY:O	2.44	0.46
1:F:2333:ARG:CZ	1:F:2333:ARG:HA	2.46	0.46
1:F:3962:ARG:HG3	1:F:3967:PHE:CE2	2.51	0.46
2:G:34:GLY:HA3	2:G:162:SER:HB3	1.98	0.46
2:G:119:LEU:HA	2:G:122:PHE:CE2	2.51	0.46
2:G:271:VAL:HG13	2:G:370:PRO:HA	1.85	0.46
1:A:111:CYS:SG	1:A:133:LYS:NZ	2.86	0.46
1:A:278:HIS:O	1:A:281:GLN:NE2	2.41	0.46
1:A:389:ILE:HG21	1:A:431:TYR:CD2	2.51	0.46
1:A:713:GLU:HG2	1:A:714:VAL:N	2.30	0.46
1:A:797:ASP:O	1:A:801:LYS:HG2	2.16	0.46
1:A:1746:PHE:O	1:A:1750:LEU:HG	2.15	0.46
1:A:1782:PHE:HA	1:A:1785:ILE:HG22	1.97	0.46
1:A:1862:THR:O	1:A:1866:GLN:HG2	2.15	0.46
1:A:1973:LYS:HD2	1:A:1976:LEU:HB3	1.98	0.46
1:A:2220:MET:C	1:A:2259:LYS:HZ2	2.14	0.46
1:A:2486:ASP:OD1	1:A:2486:ASP:N	2.49	0.46
1:A:3054:GLN:OE1	1:A:3054:GLN:N	2.48	0.46
2:B:59:PRO:HA	2:B:62:MET:CG	2.46	0.46
2:B:392:LYS:HZ2	3:C:458:ILE:HG21	1.81	0.46
2:B:474:ARG:NH2	2:B:476:ASP:OD2	2.49	0.46
3:C:9:ALA:HB2	3:C:127:PHE:CG	2.51	0.46
3:C:40:MET:O	3:C:43:GLN:HG2	2.16	0.46
1:F:1626:TRP:HE1	1:F:1627:LYS:NZ	2.12	0.46
1:F:1709:GLU:O	1:F:1713:VAL:HG13	2.15	0.46
1:F:1726:SER:HB2	1:F:1772:HIS:O	2.14	0.46
1:F:2231:PHE:HA	1:F:2234:ASN:ND2	2.29	0.46
1:F:2512:ASP:O	1:F:2518:GLN:NE2	2.42	0.46
1:F:3174:ASP:HB3	1:F:3179:TRP:NE1	2.31	0.46
1:F:3278:GLN:HG2	1:F:3279:SER:N	2.31	0.46
1:F:3809:THR:HG21	1:F:3929:MET:HG3	1.98	0.46
2:G:61:ASP:O	2:G:64:ILE:N	2.48	0.46
2:G:126:GLN:O	2:G:130:ARG:HG2	2.16	0.46
2:G:484:GLN:O	2:G:488:ARG:NH1	2.49	0.46
1:A:196:LEU:HB3	1:A:200:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:887:ASP:HB3	1:A:958:MET:CE	2.46	0.46
1:A:944:LYS:O	1:A:944:LYS:NZ	2.31	0.46
1:A:1138:ILE:HG23	1:A:1145:LEU:HD22	1.97	0.46
1:A:1403:MET:O	1:A:1407:LYS:N	2.49	0.46
1:A:1884:LEU:HD11	1:A:1888:ASP:OD2	2.15	0.46
1:A:1905:ILE:HD12	1:A:1911:LEU:HD22	1.97	0.46
1:A:2263:LYS:HZ1	1:A:2265:PRO:HA	1.81	0.46
1:A:2322:VAL:HA	1:A:2325:LEU:HD12	1.97	0.46
1:A:2415:LEU:HD22	1:A:2420:PHE:CD1	2.50	0.46
1:A:2430:GLU:N	1:A:2430:GLU:OE1	2.48	0.46
1:A:3469:LEU:CD1	1:A:3501:HIS:HB3	2.45	0.46
1:A:3496:ILE:HD13	1:A:3709:GLY:H	1.81	0.46
3:C:31:PHE:CZ	3:C:98:ILE:HG22	2.50	0.46
3:C:250:ARG:HD3	3:C:258:SER:HB2	1.98	0.46
3:C:324:SER:OG	3:C:325:LYS:N	2.49	0.46
1:F:1071:ASN:HD21	1:F:1073:PHE:HB2	1.81	0.46
1:F:1291:LEU:HD13	1:F:1363:LEU:HD12	1.97	0.46
1:F:2155:GLU:HA	1:F:2158:ARG:CG	2.46	0.46
1:F:2202:PRO:HD3	1:F:2245:TRP:CE2	2.50	0.46
1:F:2328:ARG:HB2	1:F:2370:SER:OG	2.15	0.46
1:F:3722:PHE:CE1	1:F:3740:ILE:HG13	2.46	0.46
1:F:3729:MET:HE1	1:F:3737:ARG:HB2	1.97	0.46
1:F:3806:LEU:HD21	1:F:3940:ILE:HD13	1.96	0.46
1:A:551:PHE:HE1	1:A:557:SER:H	1.64	0.46
1:A:721:TYR:HB2	1:A:726:LEU:HB2	1.98	0.46
1:A:756:PHE:O	1:A:760:LEU:HD23	2.16	0.46
1:A:1046:PRO:HA	1:A:1049:GLN:CD	2.35	0.46
1:A:1515:LEU:HD12	1:A:1516:GLU:N	2.31	0.46
1:A:1934:LEU:HA	1:A:1937:ARG:HG3	1.97	0.46
1:A:2398:LEU:HD13	1:A:2435:CYS:SG	2.56	0.46
1:A:2825:THR:O	1:A:2828:GLU:HG2	2.16	0.46
1:A:3616:ALA:HB1	1:A:3629:ARG:HH22	1.81	0.46
2:B:402:PRO:HG2	2:B:406:ILE:HG21	1.97	0.46
2:B:404:ARG:HD3	2:B:405:ASN:N	2.30	0.46
3:C:499:LEU:HD22	3:C:500:HIS:NE2	2.31	0.46
1:F:786:GLN:O	1:F:790:LYS:NZ	2.49	0.46
1:F:1413:ASP:OD1	1:F:1414:ILE:N	2.48	0.46
1:F:1419:LEU:HD21	1:F:1467:ILE:HD11	1.98	0.46
1:F:1948:ALA:O	1:F:1952:ILE:HG13	2.15	0.46
1:F:2345:VAL:O	1:F:2349:LEU:HG	2.15	0.46
1:F:2503:LYS:HD3	1:F:2506:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2877:SER:O	1:F:2881:LEU:HG	2.16	0.46
1:F:3120:LEU:HD13	1:F:3899:ALA:HB2	1.97	0.46
1:F:4100:GLU:OE1	1:F:4100:GLU:N	2.38	0.46
3:H:81:ARG:NH1	3:H:84:MET:HB2	2.27	0.46
6:D:14:DT:H1'	7:E:43:DT:O2	2.16	0.46
1:A:336:ASN:HB2	1:A:340:TYR:CE2	2.51	0.46
1:A:856:VAL:HB	1:A:857:GLN:NE2	2.31	0.46
1:A:1038:LYS:HG3	1:A:1039:TRP:CD2	2.51	0.46
1:A:1474:ASP:OD1	1:A:1474:ASP:N	2.48	0.46
1:A:1840:PHE:CE2	1:A:1898:GLN:HB2	2.42	0.46
1:A:1901:HIS:NE2	1:A:1904:CYS:HB3	2.31	0.46
1:A:2310:VAL:C	1:A:2312:TYR:H	2.19	0.46
1:A:2452:ARG:HH22	1:A:2494:ASP:CG	2.19	0.46
1:A:3045:ILE:HG22	1:A:3049:LEU:HD11	1.98	0.46
1:A:3195:GLU:OE2	1:A:3196:LYS:NZ	2.42	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CZ3	2.51	0.46
1:A:3751:LEU:HB2	1:A:3803:ILE:HB	1.98	0.46
1:A:3831:ASP:N	1:A:3831:ASP:OD1	2.49	0.46
2:B:85:VAL:HG22	2:B:106:GLN:HB2	1.98	0.46
2:B:121:GLN:OE1	2:B:130:ARG:NE	2.48	0.46
3:C:232:ARG:HG2	3:C:515:MET:HA	1.98	0.46
1:F:317:GLU:HG2	1:F:364:ARG:HH12	1.80	0.46
1:F:654:ILE:O	1:F:658:THR:HG23	2.16	0.46
1:F:958:MET:HB2	1:F:962:TYR:CZ	2.51	0.46
1:F:1111:LEU:O	1:F:1115:HIS:HD2	1.99	0.46
1:F:1248:PHE:HD1	1:F:1313:PHE:HA	1.80	0.46
1:F:1418:HIS:O	1:F:1421:GLU:HG2	2.16	0.46
1:F:1621:THR:O	1:F:1625:HIS:N	2.48	0.46
1:F:1897:ASN:OD1	1:F:1902:GLY:N	2.45	0.46
1:F:2212:ALA:O	1:F:2216:LEU:HG	2.15	0.46
1:F:2213:ASN:HA	1:F:2216:LEU:HD12	1.97	0.46
1:F:2310:VAL:HG13	1:F:2316:TYR:CZ	2.50	0.46
1:F:2397:CYS:O	1:F:2400:VAL:HG12	2.15	0.46
1:F:4101:GLU:HG2	1:F:4102:THR:N	2.29	0.46
2:G:182:LYS:HA	2:G:185:ARG:NH2	2.31	0.46
2:G:347:LEU:HD11	2:G:396:ALA:HB1	1.98	0.46
2:G:375:VAL:HG13	3:H:540:ILE:O	2.16	0.46
3:H:12:LEU:HB2	3:H:56:LEU:HA	1.97	0.46
3:H:33:GLN:O	3:H:36:LYS:HG2	2.15	0.46
3:H:219:ASP:OD1	3:H:219:ASP:N	2.43	0.46
4:J:28:DA:N1	5:I:29:DA:C2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:40:DT:H1'	5:I:41:DT:C2	2.51	0.46
1:A:99:LYS:NZ	1:A:144:MET:H	2.13	0.46
1:A:717:LYS:NZ	1:A:721:TYR:OH	2.31	0.46
1:A:1400:VAL:HG21	1:A:1460:ARG:HB3	1.97	0.46
1:A:1463:LEU:HB3	1:A:1466:ASN:OD1	2.16	0.46
1:A:1468:LEU:HD22	1:A:1521:PHE:HE1	1.81	0.46
1:A:1476:HIS:CD2	1:A:1521:PHE:CD1	3.04	0.46
1:A:1725:GLN:OE1	1:A:1727:ARG:HG2	2.16	0.46
1:A:1768:ARG:HD2	1:A:1768:ARG:HA	1.65	0.46
1:A:2470:ARG:O	1:A:2473:MET:HB3	2.16	0.46
2:B:187:ARG:NH2	2:B:216:PHE:HA	2.30	0.46
2:B:289:TYR:HB3	2:B:293:ASN:N	2.31	0.46
2:B:301:ARG:NH2	2:B:310:LEU:HD11	2.31	0.46
3:C:234:LEU:HA	3:C:237:PHE:HD2	1.79	0.46
3:C:599:ARG:O	3:C:603:LYS:HG2	2.16	0.46
1:F:24:ARG:HH21	1:F:25:CYS:HA	1.81	0.46
1:F:225:LYS:NZ	1:F:268:PRO:HA	2.31	0.46
1:F:256:ILE:HG13	1:F:257:ARG:HD3	1.97	0.46
1:F:432:THR:HA	1:F:435:LEU:HD12	1.98	0.46
1:F:971:ARG:NH1	1:F:1025:LEU:HD13	2.31	0.46
1:F:1082:PHE:CE2	1:F:1133:HIS:HB2	2.51	0.46
1:F:1095:LEU:O	1:F:1099:PHE:N	2.47	0.46
1:F:1982:ILE:O	1:F:2177:ASN:ND2	2.49	0.46
1:F:2102:LYS:HG2	1:F:2102:LYS:HZ3	1.58	0.46
1:F:2270:ASN:O	1:F:2273:GLY:N	2.50	0.46
1:F:3027:LEU:O	1:F:3067:LYS:NZ	2.37	0.46
1:F:3258:LEU:O	1:F:3262:LEU:HG	2.15	0.46
1:F:3982:SER:HB2	1:F:3986:HIS:HE1	1.81	0.46
1:F:4027:TRP:HA	1:F:4029:GLN:HE22	1.82	0.46
1:A:851:ILE:O	1:A:855:VAL:HG23	2.15	0.45
1:A:1090:ARG:HG3	1:A:1091:GLU:OE1	2.15	0.45
1:A:1136:ARG:HA	1:A:1139:GLU:OE1	2.16	0.45
1:A:1323:SER:OG	1:A:1324:PRO:HD3	2.16	0.45
1:A:1345:THR:O	1:A:1348:LEU:HB2	2.16	0.45
1:A:1775:GLU:CD	1:A:1775:GLU:H	2.20	0.45
1:A:1879:VAL:O	1:A:1882:SER:OG	2.21	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:HE1	1.81	0.45
1:A:2374:LEU:HD12	1:A:2377:ARG:HH22	1.81	0.45
1:A:3723:ASP:CB	1:A:3739:ILE:HB	2.46	0.45
2:B:273:ILE:N	2:B:273:ILE:HD12	2.31	0.45
2:B:303:PHE:N	3:C:290:GLN:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:8:ALA:HA	3:C:129:LYS:HB3	1.98	0.45
3:C:521:GLU:HG2	3:C:522:VAL:N	2.29	0.45
1:F:263:LYS:HE2	1:F:267:VAL:H	1.80	0.45
1:F:429:GLU:OE1	1:F:429:GLU:N	2.45	0.45
1:F:939:MET:O	1:F:942:LEU:HG	2.16	0.45
1:F:1083:ASN:HD21	1:F:1130:ALA:HB2	1.81	0.45
1:F:1085:ILE:O	1:F:1088:GLU:HG2	2.16	0.45
1:F:1568:ASN:O	1:F:1572:LEU:HD23	2.16	0.45
1:F:1672:PHE:CZ	1:F:1676:ILE:HD11	2.51	0.45
1:F:2340:SER:O	1:F:2344:LEU:HG	2.16	0.45
1:F:2383:PHE:HB3	1:F:2418:LYS:HE3	1.97	0.45
1:F:2469:CYS:SG	1:F:2470:ARG:HD3	2.56	0.45
1:F:2898:LEU:HD12	1:F:3973:PRO:HD3	1.96	0.45
1:F:3002:TYR:HB3	1:F:3011:LEU:HB2	1.97	0.45
1:F:3873:LYS:HG3	1:F:3877:LYS:NZ	2.31	0.45
2:G:111:PRO:HB2	3:H:317:GLY:HA2	1.98	0.45
2:G:269:ILE:HD13	2:G:382:PHE:HE1	1.81	0.45
6:D:33:DA:H2''	6:D:34:DT:C6	2.51	0.45
1:A:192:ASN:O	1:A:196:LEU:HG	2.16	0.45
1:A:390:GLN:HA	1:A:394:GLN:HE22	1.81	0.45
1:A:407:VAL:C	1:A:449:TYR:HE2	2.17	0.45
1:A:852:ARG:O	1:A:856:VAL:HG23	2.16	0.45
1:A:1983:ASP:HA	1:A:2184:TYR:OH	2.16	0.45
1:A:2102:LYS:O	1:A:2106:ARG:N	2.49	0.45
1:A:2931:ARG:HA	1:A:2931:ARG:NE	2.31	0.45
1:A:2964:ASP:OD1	1:A:2965:TYR:N	2.49	0.45
1:A:3361:GLU:HA	1:A:3373:VAL:HG21	1.97	0.45
1:A:3918:LEU:HB3	1:A:3920:ILE:CD1	2.46	0.45
1:A:3968:ILE:HD12	1:A:3971:MET:HB2	1.97	0.45
2:B:34:GLY:H	2:B:80:ARG:HH22	1.64	0.45
2:B:106:GLN:NE2	2:B:119:LEU:HD11	2.31	0.45
2:B:329:LEU:HD21	3:C:497:ARG:HG3	1.98	0.45
3:C:16:VAL:HB	3:C:58:LEU:HD12	1.98	0.45
1:F:324:SER:HB3	1:F:368:LEU:HD11	1.97	0.45
1:F:350:ARG:HB3	1:F:1733:THR:HG23	1.98	0.45
1:F:730:LEU:HD12	1:F:731:THR:N	2.31	0.45
1:F:756:PHE:CD1	1:F:796:LEU:HD21	2.51	0.45
1:F:1884:LEU:HD12	1:F:1888:ASP:OD2	2.16	0.45
1:F:3324:ARG:NH2	1:F:3394:GLU:HB2	2.31	0.45
1:F:3576:ASP:O	1:F:3579:SER:OG	2.35	0.45
2:G:341:ASP:OD2	2:G:408:PRO:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:7:LYS:HA	3:H:51:LYS:HD2	1.97	0.45
3:H:134:ILE:HG13	3:H:163:PHE:HA	1.98	0.45
3:H:263:ALA:HA	3:H:364:VAL:HA	1.98	0.45
3:H:344:GLY:O	3:H:392:ILE:HG12	2.17	0.45
1:A:39:GLY:HA3	1:A:826:PHE:CD1	2.52	0.45
1:A:99:LYS:H	1:A:141:SER:HB2	1.81	0.45
1:A:459:ARG:O	1:A:463:LYS:HG3	2.17	0.45
1:A:726:LEU:HD12	1:A:729:CYS:SG	2.56	0.45
1:A:1570:GLU:OE2	1:A:1573:LYS:HE3	2.16	0.45
1:A:1718:ILE:HG13	1:A:1719:VAL:N	2.31	0.45
1:A:1752:LEU:HD13	1:A:1788:ARG:HH12	1.82	0.45
1:A:1848:ILE:O	1:A:1852:LYS:NZ	2.43	0.45
1:A:2130:HIS:ND1	1:A:2163:HIS:O	2.49	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:CE1	2.52	0.45
1:A:2392:VAL:O	1:A:2395:THR:HB	2.16	0.45
1:A:2806:LYS:HD3	1:A:2857:CYS:HB3	1.98	0.45
1:A:2980:ASP:N	1:A:2980:ASP:OD1	2.49	0.45
1:A:3700:GLU:OE1	1:A:3704:GLN:HB3	2.16	0.45
1:A:3955:VAL:HG21	1:A:4121:TRP:HB2	1.97	0.45
1:A:4008:GLU:OE2	1:A:4010:SER:N	2.44	0.45
2:B:279:LYS:HZ1	3:C:358:GLY:H	1.64	0.45
2:B:375:VAL:HG22	3:C:541:GLU:HG3	1.97	0.45
3:C:551:GLN:OE1	3:C:551:GLN:N	2.49	0.45
3:C:618:ASN:HA	3:C:621:GLU:CD	2.36	0.45
1:F:303:HIS:CE1	1:F:308:LEU:HD22	2.51	0.45
1:F:398:THR:N	1:F:399:GLN:OE1	2.50	0.45
1:F:486:GLY:O	1:F:490:ILE:HG12	2.16	0.45
1:F:1572:LEU:HD21	1:F:1603:GLN:NE2	2.32	0.45
1:F:1576:ASP:O	1:F:1580:LEU:N	2.47	0.45
1:F:1581:GLU:HA	1:F:1584:GLN:HE22	1.81	0.45
1:F:2939:LEU:HB3	1:F:2943:PHE:CZ	2.52	0.45
1:F:3900:LEU:HD12	1:F:3901:ARG:N	2.31	0.45
2:G:392:LYS:HG3	3:H:458:ILE:HD11	1.97	0.45
4:J:18:DA:H2''	4:J:19:DA:C8	2.51	0.45
6:D:18:DA:C2	6:D:19:DA:N6	2.84	0.45
1:A:295:GLU:O	1:A:299:LYS:N	2.42	0.45
1:A:782:ARG:CZ	1:A:783:HIS:CE1	2.99	0.45
1:A:957:PRO:CB	1:A:1004:GLN:HG3	2.47	0.45
1:A:1681:ASP:OD1	1:A:1683:LYS:N	2.49	0.45
1:A:1860:GLU:OE2	1:A:1861:SER:N	2.49	0.45
1:A:2365:ASN:CG	1:A:2400:VAL:HB	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3030:ILE:HG22	1:A:3030:ILE:O	2.16	0.45
1:A:3123:GLN:O	1:A:3127:THR:N	2.36	0.45
1:A:3144:PHE:CE1	1:A:3150:ASN:HB3	2.52	0.45
1:A:3235:LYS:HA	1:A:3238:MET:CE	2.46	0.45
1:A:4120:THR:HG21	1:A:4126:PRO:HG3	1.97	0.45
2:B:351:LYS:NZ	3:C:475:ASP:HA	2.31	0.45
3:C:244:SER:HB3	3:C:264:TYR:HB3	1.98	0.45
3:C:641:ALA:O	3:C:645:GLU:HG2	2.16	0.45
1:F:1369:MET:HG3	1:F:1418:HIS:NE2	2.30	0.45
1:F:1715:GLU:HA	1:F:1718:ILE:HG12	1.98	0.45
1:F:2336:ILE:HG13	1:F:2336:ILE:O	2.17	0.45
1:F:3142:ILE:O	1:F:3146:SER:HB3	2.16	0.45
1:F:3585:PHE:HA	1:F:3613:MET:CE	2.44	0.45
1:F:3811:THR:HG21	1:F:3926:ASN:HD22	1.80	0.45
1:F:3908:HIS:NE2	1:F:3912:CYS:SG	2.90	0.45
2:G:256:LEU:H	2:G:256:LEU:HD23	1.82	0.45
2:G:412:ALA:C	2:G:434:LEU:HD12	2.37	0.45
3:H:165:LEU:HD21	3:H:194:LEU:HB2	1.98	0.45
3:H:335:SER:OG	3:H:396:ALA:HB1	2.17	0.45
1:A:1220:LEU:HB3	1:A:1224:PHE:CE2	2.52	0.45
1:A:1893:GLU:H	1:A:1895:LYS:HZ1	1.65	0.45
1:A:2520:ILE:HD13	1:A:2523:ASN:OD1	2.17	0.45
1:A:2825:THR:N	1:A:2828:GLU:OE2	2.32	0.45
1:A:3001:CYS:SG	1:A:3002:TYR:N	2.90	0.45
1:A:3145:ILE:HD11	1:A:3196:LYS:HE2	1.98	0.45
1:A:3466:PRO:HB2	1:A:4004:VAL:HG11	1.97	0.45
1:A:3870:SER:O	1:A:3874:ARG:HG2	2.16	0.45
1:A:3886:ALA:O	1:A:3889:ARG:N	2.50	0.45
2:B:34:GLY:C	2:B:162:SER:HB3	2.37	0.45
2:B:318:ARG:N	2:B:329:LEU:O	2.49	0.45
2:B:380:THR:O	3:C:450:GLN:NE2	2.47	0.45
3:C:293:THR:HG22	3:C:295:TYR:CE1	2.51	0.45
3:C:599:ARG:HA	3:C:602:VAL:HG22	1.98	0.45
1:F:144:MET:SD	1:F:145:ASP:N	2.89	0.45
1:F:940:PHE:O	1:F:944:LYS:HG2	2.17	0.45
1:F:1622:ILE:O	1:F:1626:TRP:N	2.49	0.45
1:F:1775:GLU:OE1	1:F:1775:GLU:N	2.40	0.45
1:F:1812:LEU:HB3	1:F:1815:THR:HG23	1.97	0.45
1:F:1829:TRP:HA	1:F:1883:ARG:HH22	1.81	0.45
1:F:2338:GLU:OE1	1:F:2339:GLU:N	2.49	0.45
1:F:3269:ARG:HB3	1:F:3272:TRP:CE3	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3410:ILE:HG22	1:F:3453:ALA:HB1	1.98	0.45
1:F:3419:PHE:O	1:F:3422:GLN:HG3	2.16	0.45
1:F:3545:THR:HA	1:F:3549:HIS:HB2	1.98	0.45
1:F:3603:LYS:HE2	1:F:3651:LEU:HD21	1.97	0.45
1:F:3774:ILE:HG22	1:F:3778:ASP:OD2	2.16	0.45
2:G:356:LEU:HD11	3:H:353:ARG:HH21	1.80	0.45
3:H:43:GLN:HA	3:H:46:VAL:HG12	1.97	0.45
3:H:74:TYR:OH	3:H:112:ILE:HD12	2.17	0.45
1:A:248:ILE:O	1:A:252:VAL:HG23	2.17	0.45
1:A:327:VAL:C	1:A:329:LYS:N	2.70	0.45
1:A:584:GLU:O	1:A:613:HIS:N	2.47	0.45
1:A:721:TYR:HB2	1:A:726:LEU:HD13	1.98	0.45
1:A:910:PHE:CZ	1:A:2808:LEU:HD23	2.51	0.45
1:A:1212:LEU:HA	1:A:1219:PHE:CD2	2.51	0.45
1:A:1225:GLU:HB2	1:A:1236:LEU:HD22	1.99	0.45
1:A:1327:GLY:O	1:A:1331:ASN:ND2	2.50	0.45
1:A:1333:SER:O	1:A:1337:VAL:HG23	2.16	0.45
1:A:1747:LEU:O	1:A:1750:LEU:HB2	2.17	0.45
1:A:1855:PHE:HB3	1:A:1870:LYS:HZ3	1.82	0.45
1:A:1917:LYS:HD2	1:A:1917:LYS:N	2.32	0.45
1:A:2255:LEU:HA	1:A:2258:GLU:OE2	2.16	0.45
1:A:3810:VAL:HG22	1:A:3811:THR:H	1.80	0.45
1:A:3898:LEU:HD12	1:A:3899:ALA:N	2.31	0.45
2:B:319:SER:HA	2:B:327:ILE:O	2.17	0.45
2:B:471:PHE:HZ	2:B:517:ARG:NH2	2.15	0.45
3:C:682:GLY:O	3:C:686:ILE:N	2.49	0.45
1:F:51:LEU:O	1:F:54:GLN:NE2	2.50	0.45
1:F:582:THR:O	1:F:615:ALA:HB2	2.15	0.45
1:F:1091:GLU:OE1	1:F:1091:GLU:N	2.50	0.45
1:F:1404:LYS:HA	1:F:1407:LYS:NZ	2.30	0.45
1:F:2252:PRO:C	1:F:2254:ARG:H	2.19	0.45
1:F:2866:ALA:HA	1:F:2869:LEU:HD12	1.98	0.45
1:F:3134:ALA:O	1:F:3138:ILE:HG12	2.17	0.45
1:F:3172:LYS:O	1:F:3783:GLN:NE2	2.50	0.45
1:F:3252:PHE:O	1:F:3254:LEU:HD23	2.17	0.45
1:F:3259:LEU:HD11	1:F:3283:LEU:HD13	1.99	0.45
1:F:3273:LEU:O	1:F:3277:VAL:HG23	2.17	0.45
1:F:3577:GLN:NE2	1:F:3625:LEU:HA	2.32	0.45
1:F:3628:PHE:HA	1:F:3675:LYS:HD2	1.99	0.45
1:F:3671:ASN:OD1	1:F:3672:LYS:N	2.49	0.45
1:F:3918:LEU:HB2	1:F:3920:ILE:HG12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3949:ALA:O	1:F:3953:LEU:HB2	2.15	0.45
2:G:478:PHE:CZ	3:H:424:LEU:HD22	2.52	0.45
3:H:629:THR:O	3:H:633:MET:HG2	2.16	0.45
3:H:640:ARG:HD2	3:H:685:LEU:HG	1.99	0.45
6:D:15:DA:H5'	7:E:42:DA:C2	2.49	0.45
1:A:1166:LEU:O	1:A:1170:LYS:HG2	2.16	0.45
1:A:2261:SER:O	1:A:2270:ASN:ND2	2.50	0.45
1:A:2481:HIS:CE1	1:A:2485:ARG:HB3	2.52	0.45
1:A:2818:LYS:HD3	1:A:2818:LYS:HA	1.74	0.45
1:A:2931:ARG:NH2	1:A:2939:LEU:HD11	2.32	0.45
1:A:3100:LYS:O	1:A:3104:GLN:HG2	2.16	0.45
1:A:3302:LYS:HA	1:A:3305:SER:HB3	1.99	0.45
1:A:3455:LYS:HA	1:A:3491:PRO:HG2	1.98	0.45
1:A:3828:TYR:O	1:A:3832:PRO:HG3	2.17	0.45
1:A:3995:PRO:O	1:A:3999:THR:HG23	2.16	0.45
1:A:4098:LEU:HB2	1:A:4103:GLN:NE2	2.32	0.45
2:B:350:PHE:HD2	3:C:458:ILE:HA	1.77	0.45
2:B:410:PHE:O	2:B:437:LEU:HG	2.16	0.45
1:F:560:LEU:O	1:F:563:LEU:N	2.49	0.45
1:F:667:TYR:HB2	1:F:728:SER:CB	2.42	0.45
1:F:1207:TRP:CZ3	1:F:1211:VAL:HG21	2.52	0.45
1:F:1820:VAL:HG23	1:F:1824:LEU:HD12	1.98	0.45
1:F:2512:ASP:HB3	1:F:2518:GLN:NE2	2.32	0.45
1:F:2565:MET:O	1:F:2568:MET:HG3	2.16	0.45
1:F:2862:SER:OG	1:F:2892:LEU:HD12	2.17	0.45
1:F:3008:TRP:HD1	1:F:3011:LEU:CD2	2.30	0.45
1:F:3811:THR:HG22	1:F:3813:LYS:H	1.82	0.45
1:F:4035:GLU:OE2	1:F:4036:LYS:N	2.49	0.45
2:G:52:GLN:HG3	2:G:206:LYS:HG3	1.98	0.45
2:G:319:SER:O	3:H:277:THR:N	2.48	0.45
4:J:18:DA:C5	5:I:39:DA:N1	2.84	0.45
6:D:37:DG:C2	6:D:38:DG:C2	3.05	0.45
1:A:571:SER:HA	1:A:574:LYS:HZ2	1.80	0.45
1:A:793:LEU:HD22	1:A:869:ASN:ND2	2.31	0.45
1:A:1134:LEU:O	1:A:1137:ILE:HG22	2.17	0.45
1:A:1337:VAL:O	1:A:1341:ILE:HG13	2.17	0.45
1:A:1360:LYS:HE2	1:A:1360:LYS:HA	1.98	0.45
1:A:1635:LYS:HE2	1:A:1683:LYS:NZ	2.32	0.45
1:A:1811:ARG:NE	3:C:627:ASN:OD1	2.50	0.45
1:A:2100:LEU:HD12	1:A:2101:VAL:N	2.32	0.45
1:A:2135:ASN:O	1:A:2138:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2580:PRO:HB2	1:A:2582:SER:O	2.16	0.45
1:A:2586:PHE:HB3	1:A:2776:ARG:HD2	1.98	0.45
1:A:2789:SER:HA	1:A:2792:THR:OG1	2.16	0.45
1:A:3628:PHE:CG	1:A:3683:CYS:HA	2.51	0.45
1:A:3735:PRO:HB2	1:A:3751:LEU:HD12	1.98	0.45
1:A:3812:LEU:O	1:A:3816:LEU:N	2.38	0.45
2:B:343:PRO:HA	2:B:401:THR:OG1	2.17	0.45
3:C:232:ARG:HD2	3:C:515:MET:HA	1.98	0.45
3:C:629:THR:HA	3:C:632:PHE:CZ	2.52	0.45
1:F:649:PHE:CZ	1:F:653:LEU:HD11	2.52	0.45
1:F:990:GLN:CB	1:F:2781:PRO:HD3	2.46	0.45
1:F:1030:GLY:O	1:F:1033:ILE:HG22	2.17	0.45
1:F:1476:HIS:H	1:F:1524:LEU:CD2	2.30	0.45
1:F:1811:ARG:HH22	3:H:627:ASN:H	1.63	0.45
1:F:3164:TRP:HH2	1:F:3189:PHE:CZ	2.34	0.45
1:F:3167:ARG:HA	1:F:3167:ARG:HD2	1.63	0.45
1:F:3700:GLU:HG3	1:F:3717:VAL:O	2.17	0.45
1:F:3758:LEU:HD12	1:F:3794:VAL:C	2.37	0.45
3:H:16:VAL:O	3:H:101:GLY:N	2.50	0.45
3:H:548:VAL:O	3:H:548:VAL:HG12	2.17	0.45
6:D:21:DA:H2''	6:D:22:DG:C8	2.52	0.45
1:A:108:LYS:HA	1:A:111:CYS:SG	2.57	0.45
1:A:264:ARG:HG2	1:A:265:TYR:N	2.32	0.45
1:A:699:GLU:OE1	1:A:699:GLU:N	2.35	0.45
1:A:892:LEU:HD11	1:A:940:PHE:CE2	2.52	0.45
1:A:962:TYR:HB3	1:A:966:PHE:CE2	2.51	0.45
1:A:1558:TYR:CE2	1:A:1562:LEU:HD11	2.51	0.45
1:A:1980:ASN:O	1:A:1982:ILE:HG12	2.16	0.45
1:A:3136:THR:O	1:A:3140:GLU:HB2	2.16	0.45
1:A:3193:ILE:HD11	1:A:3231:ILE:HG12	1.99	0.45
1:A:3587:ASP:HA	1:A:3590:ASN:OD1	2.16	0.45
2:B:289:TYR:H	2:B:294:GLU:H	1.64	0.45
3:C:395:TYR:HD1	3:C:404:GLN:HB2	1.81	0.45
1:F:296:VAL:HB	1:F:300:TRP:CD1	2.52	0.45
1:F:432:THR:CG2	1:F:433:PRO:HD3	2.47	0.45
1:F:643:GLU:O	1:F:646:VAL:HG22	2.17	0.45
1:F:678:LYS:HZ1	1:F:683:PHE:H	1.65	0.45
1:F:878:GLU:HG3	1:F:879:MET:SD	2.57	0.45
1:F:1794:GLN:O	1:F:1798:LEU:HG	2.17	0.45
1:F:1872:GLY:HA2	1:F:1875:LYS:HE2	1.98	0.45
1:F:2097:LEU:O	1:F:2101:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2950:LYS:O	1:F:2953:THR:N	2.43	0.45
1:F:3460:GLU:HB2	1:F:3464:LYS:HE3	1.99	0.45
1:F:3580:ASN:HA	1:F:3628:PHE:CZ	2.51	0.45
2:G:51:SER:HB3	2:G:54:GLU:O	2.17	0.45
2:G:103:TYR:CE2	2:G:135:MET:HB3	2.52	0.45
3:H:52:ASP:N	3:H:52:ASP:OD1	2.50	0.45
3:H:496:HIS:CD2	3:H:506:PRO:HB3	2.52	0.45
1:A:107:ILE:HG22	1:A:133:LYS:HZ3	1.82	0.45
1:A:149:ILE:O	1:A:151:GLU:N	2.50	0.45
1:A:339:GLN:NE2	3:C:570:GLU:HA	2.32	0.45
1:A:575:ILE:O	1:A:579:LEU:HG	2.16	0.45
1:A:729:CYS:O	1:A:733:LEU:HG	2.17	0.45
1:A:741:ILE:HG23	1:A:748:TYR:CD2	2.49	0.45
1:A:899:ARG:NH1	1:A:2565:MET:O	2.44	0.45
1:A:1364:CYS:O	1:A:1368:LEU:HB2	2.17	0.45
1:A:1635:LYS:HE2	1:A:1683:LYS:HZ2	1.82	0.45
1:A:2326:ILE:HD12	1:A:2329:TYR:HB3	1.99	0.45
1:A:2346:ALA:O	1:A:2349:LEU:HG	2.16	0.45
1:A:2522:ARG:O	1:A:2526:SER:OG	2.23	0.45
1:A:2808:LEU:O	1:A:2812:LEU:HD23	2.17	0.45
1:A:2942:ILE:HG13	1:A:2942:ILE:O	2.17	0.45
1:A:3147:LYS:HD3	1:A:3149:GLY:N	2.31	0.45
1:A:3913:ILE:HD11	1:A:3991:PHE:HE2	1.81	0.45
2:B:174:ASN:HB2	2:B:215:LEU:HD23	1.98	0.45
2:B:176:HIS:CD2	2:B:180:SER:HA	2.52	0.45
3:C:659:LEU:HD22	3:C:688:LYS:HE2	1.99	0.45
1:F:1696:LEU:HD12	1:F:1699:PHE:HB2	1.99	0.45
1:F:1730:PRO:CD	1:F:1735:ARG:HH22	2.30	0.45
1:F:2464:HIS:O	1:F:2466:SER:N	2.50	0.45
1:F:2562:LEU:HA	1:F:2565:MET:HB3	1.99	0.45
1:F:3726:VAL:HG12	1:F:3728:VAL:HG23	1.98	0.45
1:F:4016:PHE:O	1:F:4020:MET:HG2	2.17	0.45
2:G:91:GLU:OE1	2:G:136:GLY:HA3	2.17	0.45
2:G:456:PRO:HA	2:G:459:VAL:HG23	1.98	0.45
3:H:138:LEU:HD21	3:H:204:GLY:HA3	1.99	0.45
3:H:306:LEU:HB3	3:H:309:ASP:HB2	1.99	0.45
1:A:17:GLU:HA	1:A:20:SER:OG	2.16	0.44
1:A:138:PHE:CE1	1:A:146:GLU:HA	2.51	0.44
1:A:823:GLN:HE22	1:A:831:LEU:HD11	1.82	0.44
1:A:887:ASP:HB3	1:A:958:MET:HE2	1.98	0.44
1:A:1419:LEU:HD21	1:A:1467:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1767:CYS:HA	1:A:1822:ARG:CZ	2.47	0.44
1:A:2372:PRO:HG2	1:A:2373:PRO:HD3	1.98	0.44
1:A:2479:TRP:HA	1:A:2482:ASP:OD2	2.17	0.44
1:A:3027:LEU:HA	1:A:3031:TRP:HZ2	1.81	0.44
1:A:3048:LYS:HD3	1:A:3061:LEU:CB	2.47	0.44
1:A:3158:LYS:O	1:A:3161:LEU:HG	2.17	0.44
1:A:3159:ARG:HH11	1:A:3159:ARG:HA	1.82	0.44
1:A:3298:LEU:HD13	1:A:3337:ILE:HG12	1.99	0.44
1:A:3352:GLU:HB2	1:A:3357:ARG:CZ	2.47	0.44
1:A:3496:ILE:HD12	1:A:3496:ILE:H	1.82	0.44
1:A:4046:TYR:HB3	1:A:4050:LYS:HZ3	1.82	0.44
2:B:54:GLU:HB3	2:B:56:GLU:CD	2.38	0.44
3:C:16:VAL:HG23	3:C:99:GLN:O	2.16	0.44
3:C:146:GLN:O	3:C:150:ILE:HG23	2.17	0.44
3:C:696:VAL:HA	3:C:699:GLU:HB2	1.99	0.44
1:F:15:LEU:O	1:F:18:THR:OG1	2.30	0.44
1:F:752:LEU:HB3	1:F:756:PHE:HE2	1.82	0.44
1:F:826:PHE:CD2	1:F:836:LYS:HD2	2.52	0.44
1:F:1413:ASP:O	1:F:1417:THR:HG23	2.17	0.44
1:F:1560:TYR:OH	1:F:1596:VAL:HA	2.17	0.44
1:F:1770:GLN:HB2	1:F:1814:PHE:HZ	1.80	0.44
1:F:2121:ASP:N	1:F:2121:ASP:OD1	2.51	0.44
1:F:2396:LEU:O	1:F:2399:GLU:HG2	2.17	0.44
1:F:2522:ARG:HG3	1:F:2523:ASN:N	2.32	0.44
1:F:3459:ASN:O	1:F:3463:LEU:HG	2.17	0.44
1:F:3716:HIS:O	1:F:3718:ARG:NH1	2.50	0.44
1:F:3758:LEU:HB2	1:F:3795:PRO:HD3	2.00	0.44
2:G:49:PHE:HE2	2:G:132:GLN:HE22	1.63	0.44
2:G:325:ARG:NH2	2:G:326:GLN:O	2.50	0.44
2:G:334:THR:O	2:G:337:LEU:HB2	2.17	0.44
2:G:410:PHE:HE2	3:H:482:ILE:HG13	1.82	0.44
3:H:34:ALA:O	3:H:38:ILE:HG12	2.16	0.44
3:H:343:LEU:N	3:H:392:ILE:O	2.41	0.44
4:J:28:DA:H2'	4:J:28:DA:O5'	2.17	0.44
6:D:32:DT:O2	7:E:25:DA:H2	1.99	0.44
7:E:29:DA:C6	7:E:30:DA:C6	3.05	0.44
1:A:582:THR:HG21	1:A:615:ALA:HB3	2.00	0.44
1:A:755:ALA:O	1:A:759:GLY:N	2.39	0.44
1:A:1661:PHE:HA	1:A:1665:HIS:ND1	2.33	0.44
1:A:3251:ASN:OD1	1:A:3252:PHE:N	2.50	0.44
1:A:3258:LEU:HB3	1:A:3262:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3763:ARG:HA	1:A:3763:ARG:NE	2.32	0.44
2:B:186:ALA:HA	2:B:189:LYS:NZ	2.32	0.44
2:B:404:ARG:NH1	2:B:405:ASN:OD1	2.50	0.44
2:B:413:LEU:HD21	2:B:432:PHE:CD1	2.51	0.44
2:B:523:ASP:HA	3:C:256:ASN:ND2	2.31	0.44
3:C:250:ARG:HG2	3:C:260:ARG:HA	1.99	0.44
1:F:139:ARG:HA	1:F:139:ARG:NE	2.32	0.44
1:F:448:GLN:HE21	1:F:520:LYS:HB2	1.82	0.44
1:F:763:THR:HB	1:F:851:ILE:HD11	1.98	0.44
1:F:854:ARG:HG2	1:F:857:GLN:NE2	2.31	0.44
1:F:858:MET:O	1:F:862:LEU:N	2.49	0.44
1:F:1071:ASN:HD22	1:F:1074:LYS:HZ2	1.64	0.44
1:F:1268:ASN:HD21	1:F:1344:PHE:HB2	1.82	0.44
1:F:1326:GLU:HA	1:F:1329:ARG:NH1	2.33	0.44
1:F:1529:VAL:HG11	1:F:1581:GLU:HB2	1.99	0.44
1:F:1639:LEU:HB3	1:F:1643:MET:HE3	1.99	0.44
1:F:1710:LEU:O	1:F:1713:VAL:HG22	2.17	0.44
1:F:1814:PHE:HA	1:F:1817:GLN:HG3	1.99	0.44
1:F:1867:ILE:O	1:F:1871:MET:HG2	2.17	0.44
1:F:2351:GLN:N	1:F:2353:GLN:HG2	2.33	0.44
1:F:2512:ASP:C	1:F:2518:GLN:HE22	2.21	0.44
1:F:3846:MET:CB	1:F:3858:MET:HA	2.47	0.44
2:G:107:GLU:OE2	2:G:109:ASP:HB3	2.17	0.44
2:G:447:PRO:HG2	3:H:365:PHE:CZ	2.53	0.44
3:H:87:ASP:HB3	3:H:90:LEU:HG	1.98	0.44
1:A:99:LYS:H	1:A:141:SER:CB	2.31	0.44
1:A:474:VAL:HG22	1:A:478:CYS:N	2.32	0.44
1:A:474:VAL:HG22	1:A:478:CYS:H	1.82	0.44
1:A:541:MET:HA	1:A:544:ILE:HB	2.00	0.44
1:A:901:MET:CG	1:A:2819:GLU:HG2	2.48	0.44
1:A:1369:MET:HE1	1:A:1414:ILE:HB	1.99	0.44
1:A:1710:LEU:O	1:A:1714:LEU:HG	2.17	0.44
1:A:2433:LYS:HB3	1:A:2469:CYS:SG	2.58	0.44
1:A:2586:PHE:CD1	1:A:2778:GLY:HA3	2.52	0.44
1:A:2792:THR:OG1	1:A:2793:PRO:HD3	2.18	0.44
1:A:3537:SER:HA	1:A:3540:TYR:OH	2.17	0.44
1:A:3669:LYS:HG3	1:A:3670:MET:HG2	1.99	0.44
1:A:3701:ILE:HG13	1:A:3704:GLN:H	1.82	0.44
1:A:3863:ASN:HB3	1:A:3866:GLU:CB	2.47	0.44
1:A:4089:ILE:CD1	1:A:4092:GLN:HE22	2.31	0.44
3:C:76:ASN:HB2	3:C:105:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:482:ILE:HG21	3:C:516:LEU:HD21	1.98	0.44
3:C:610:GLU:OE1	3:C:654:ARG:NH2	2.50	0.44
1:F:193:ALA:HB1	1:F:197:PHE:CZ	2.52	0.44
1:F:583:LEU:HB2	1:F:614:PRO:HA	1.98	0.44
1:F:1045:THR:O	1:F:1048:GLN:HB2	2.17	0.44
1:F:1241:LEU:HB3	1:F:1256:TRP:CZ3	2.53	0.44
1:F:1307:ILE:HD13	1:F:1311:LYS:HZ2	1.82	0.44
1:F:1457:GLN:HB3	1:F:1460:ARG:NH2	2.31	0.44
1:F:1745:LYS:HA	1:F:1748:ASP:OD2	2.17	0.44
1:F:2196:TRP:HB2	1:F:2199:LEU:HD23	1.98	0.44
1:F:2217:ASN:HA	1:F:2220:MET:SD	2.57	0.44
1:F:2225:HIS:O	1:F:2227:LYS:N	2.49	0.44
1:F:2499:PHE:O	1:F:2503:LYS:NZ	2.41	0.44
1:F:3564:GLN:O	1:F:3569:GLN:NE2	2.38	0.44
1:F:4089:ILE:HA	1:F:4092:GLN:NE2	2.33	0.44
2:G:131:PHE:HA	2:G:134:MET:HG2	1.99	0.44
2:G:487:PHE:HB2	2:G:488:ARG:NH1	2.32	0.44
3:H:74:TYR:O	3:H:77:ILE:HD12	2.17	0.44
1:A:99:LYS:HD2	1:A:141:SER:HB2	1.99	0.44
1:A:135:LEU:HD23	1:A:177:LEU:HD13	1.99	0.44
1:A:251:PHE:CZ	1:A:285:CYS:HB3	2.45	0.44
1:A:313:LEU:O	1:A:316:LEU:N	2.49	0.44
1:A:338:LEU:HD12	1:A:339:GLN:N	2.33	0.44
1:A:357:LYS:HE3	1:A:408:TYR:HD2	1.83	0.44
1:A:457:CYS:O	1:A:461:ILE:HD12	2.17	0.44
1:A:1301:ILE:HG23	1:A:1330:TYR:CZ	2.52	0.44
1:A:2211:LEU:O	1:A:2215:LEU:HG	2.16	0.44
1:A:2572:TYR:CE1	1:A:2788:SER:HA	2.52	0.44
1:A:3067:LYS:HD3	1:A:3067:LYS:N	2.33	0.44
1:A:3365:SER:O	1:A:3373:VAL:HA	2.18	0.44
2:B:41:LEU:O	2:B:169:PHE:HD1	2.00	0.44
2:B:66:CYS:SG	2:B:67:ILE:N	2.91	0.44
2:B:82:LEU:C	2:B:83:LEU:HD12	2.37	0.44
2:B:350:PHE:HB3	2:B:394:VAL:HG22	1.98	0.44
2:B:473:TYR:CD2	3:C:350:GLN:HB3	2.52	0.44
3:C:348:SER:OG	3:C:390:VAL:HG13	2.17	0.44
3:C:618:ASN:OD1	3:C:619:HIS:N	2.47	0.44
1:F:163:LYS:HZ3	2:G:302:THR:HG22	1.82	0.44
1:F:708:VAL:HG22	1:F:740:ILE:CG1	2.47	0.44
1:F:828:LYS:NZ	1:F:830:VAL:HG22	2.32	0.44
1:F:1435:ASN:HB3	1:F:1440:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1625:HIS:HA	1:F:1628:LYS:NZ	2.29	0.44
1:F:1685:ASP:OD1	1:F:1688:LEU:HG	2.16	0.44
1:F:1981:LEU:HD13	1:F:1981:LEU:HA	1.90	0.44
1:F:2223:VAL:HG22	1:F:2224:PHE:H	1.82	0.44
1:F:2312:TYR:CE2	1:F:2314:GLU:HB3	2.52	0.44
1:F:2330:VAL:HG11	1:F:2336:ILE:HG22	1.99	0.44
1:F:3275:SER:HA	1:F:3278:GLN:NE2	2.32	0.44
1:F:3567:VAL:O	1:F:3571:PHE:N	2.39	0.44
1:F:3592:VAL:O	1:F:3595:GLU:HG2	2.17	0.44
2:G:49:PHE:HA	2:G:60:PHE:HB2	1.99	0.44
2:G:482:VAL:O	2:G:486:HIS:ND1	2.49	0.44
3:H:510:GLN:HA	3:H:513:TRP:CZ3	2.53	0.44
3:H:524:THR:O	3:H:528:ILE:HG12	2.17	0.44
3:H:686:ILE:HG23	3:H:699:GLU:HG3	1.99	0.44
4:J:36:DG:H22	5:I:21:DA:P	2.39	0.44
1:A:721:TYR:O	1:A:726:LEU:HD22	2.17	0.44
1:A:737:PRO:O	1:A:741:ILE:HD12	2.18	0.44
1:A:1050:GLU:OE1	1:A:1050:GLU:N	2.27	0.44
1:A:1135:CYS:O	1:A:1139:GLU:HG3	2.17	0.44
1:A:1378:GLU:HG3	1:A:1381:SER:H	1.83	0.44
1:A:1424:THR:C	1:A:1426:GLN:H	2.20	0.44
1:A:1584:GLN:HA	1:A:1584:GLN:OE1	2.17	0.44
1:A:1724:MET:CE	3:C:622:GLN:HB2	2.48	0.44
1:A:1777:LEU:O	1:A:1780:SER:OG	2.29	0.44
1:A:3008:TRP:CE2	1:A:3050:LYS:HD2	2.53	0.44
1:A:3555:VAL:HG12	1:A:3559:LYS:HD3	1.98	0.44
1:A:3749:PRO:HG2	1:A:3805:TRP:HB3	1.99	0.44
1:A:3849:LYS:HE2	1:A:3854:ALA:HB2	1.99	0.44
2:B:126:GLN:HA	2:B:129:LYS:HD2	1.98	0.44
2:B:285:PRO:HA	3:C:314:PHE:CE1	2.53	0.44
2:B:412:ALA:C	2:B:434:LEU:HD12	2.38	0.44
3:C:206:GLU:HA	3:C:209:LYS:HE2	1.98	0.44
3:C:352:GLN:HG3	3:C:354:ARG:N	2.28	0.44
1:F:233:ASN:OD1	1:F:278:HIS:NE2	2.51	0.44
1:F:446:PHE:CD2	1:F:527:TYR:HA	2.52	0.44
1:F:1102:GLU:H	1:F:1102:GLU:CD	2.18	0.44
1:F:1122:GLY:HA2	1:F:1125:GLN:NE2	2.32	0.44
1:F:1220:LEU:HD22	1:F:1284:THR:HG23	2.00	0.44
1:F:1811:ARG:HD3	1:F:1811:ARG:HA	1.72	0.44
1:F:1831:CYS:SG	1:F:1883:ARG:HD2	2.57	0.44
1:F:1933:LEU:HD12	1:F:1933:LEU:HA	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2342:CYS:SG	1:F:2377:ARG:NH2	2.86	0.44
1:F:2363:CYS:HA	1:F:2366:LYS:HZ1	1.83	0.44
1:F:2373:PRO:HA	1:F:2404:ARG:NH1	2.33	0.44
1:F:2405:VAL:HG21	1:F:2442:MET:HA	2.00	0.44
1:F:2791:ILE:HG13	1:F:2792:THR:N	2.32	0.44
1:F:3568:ILE:O	1:F:3572:ILE:HG13	2.18	0.44
1:F:3873:LYS:O	1:F:3876:SER:HB2	2.17	0.44
1:F:3988:LEU:HD12	1:F:3991:PHE:HD2	1.83	0.44
1:F:4081:ALA:O	1:F:4110:GLN:NE2	2.43	0.44
2:G:334:THR:HA	2:G:337:LEU:HD12	1.99	0.44
3:H:153:SER:HA	3:H:156:LYS:NZ	2.33	0.44
3:H:263:ALA:HB1	3:H:362:LEU:HD11	2.00	0.44
3:H:462:SER:HB3	3:H:465:LYS:HG3	1.99	0.44
5:I:29:DA:H1'	5:I:30:DA:H5'	2.00	0.44
1:A:390:GLN:HA	1:A:394:GLN:NE2	2.32	0.44
1:A:1294:VAL:HA	1:A:1297:PHE:CE2	2.52	0.44
1:A:2428:ASP:OD2	1:A:2431:ARG:NE	2.48	0.44
1:A:2555:LEU:HD23	1:A:2809:PHE:HB3	1.99	0.44
1:A:3929:MET:O	1:A:3937:VAL:HA	2.17	0.44
1:A:4065:LEU:HD13	1:A:4074:PHE:CZ	2.52	0.44
1:A:6009:UNK:O	1:A:6013:UNK:N	2.51	0.44
2:B:274:TYR:O	2:B:367:PHE:N	2.50	0.44
2:B:318:ARG:NH1	2:B:331:LYS:HE3	2.32	0.44
2:B:461:LYS:HE3	2:B:527:GLU:H	1.83	0.44
3:C:357:MET:HB2	3:C:423:GLN:HB3	2.00	0.44
3:C:599:ARG:HH21	3:C:645:GLU:HG3	1.82	0.44
1:F:1710:LEU:O	1:F:1714:LEU:HG	2.17	0.44
1:F:2426:HIS:NE2	1:F:2428:ASP:OD2	2.49	0.44
1:F:2553:HIS:O	1:F:2555:LEU:N	2.51	0.44
1:F:2559:THR:O	1:F:2562:LEU:HG	2.18	0.44
1:F:3365:SER:OG	1:F:3373:VAL:HA	2.17	0.44
1:F:3555:VAL:HG12	1:F:3559:LYS:HZ1	1.81	0.44
1:F:3745:GLU:O	1:F:3746:ARG:HD2	2.18	0.44
1:F:3980:MET:HB2	1:F:3984:MET:HE1	1.98	0.44
2:G:122:PHE:O	2:G:127:GLY:HA3	2.17	0.44
2:G:140:ASP:CG	2:G:141:TYR:H	2.21	0.44
2:G:258:ARG:HD3	2:G:258:ARG:H	1.83	0.44
2:G:299:LYS:HE3	3:H:294:VAL:N	2.33	0.44
2:G:350:PHE:HB3	2:G:394:VAL:HG22	2.00	0.44
3:H:16:VAL:HA	3:H:31:PHE:HE2	1.82	0.44
6:D:20:DT:C4	7:E:37:DT:O4	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:21:DA:H2''	6:D:22:DG:H8	1.82	0.44
1:A:207:GLN:OE1	1:A:220:LEU:HD22	2.17	0.44
1:A:355:ASN:HD22	1:A:358:GLU:HB2	1.82	0.44
1:A:410:MET:N	1:A:411:PRO:HD2	2.32	0.44
1:A:414:LEU:HD23	1:A:414:LEU:H	1.83	0.44
1:A:529:ASP:O	1:A:533:HIS:ND1	2.51	0.44
1:A:664:SER:HB3	1:A:728:SER:CB	2.48	0.44
1:A:850:GLU:O	1:A:854:ARG:HD3	2.18	0.44
1:A:856:VAL:O	1:A:859:LEU:HB2	2.17	0.44
1:A:1141:LYS:HB2	1:A:1141:LYS:HE3	1.83	0.44
1:A:1754:GLN:HE22	1:A:1788:ARG:HH21	1.65	0.44
1:A:1762:MET:SD	1:A:1763:THR:N	2.91	0.44
1:A:1769:GLU:HG2	1:A:1772:HIS:HB2	2.00	0.44
1:A:1915:LEU:HA	1:A:1918:LEU:HD12	1.99	0.44
1:A:2120:ARG:HH22	1:A:2160:TYR:HA	1.81	0.44
1:A:2299:TYR:O	1:A:2303:LEU:HG	2.18	0.44
1:A:2353:GLN:N	1:A:2353:GLN:OE1	2.50	0.44
1:A:2438:ILE:HG22	1:A:2442:MET:HE3	1.99	0.44
1:A:2527:HIS:CE1	1:A:2529:THR:HG23	2.52	0.44
1:A:2864:GLN:HG3	1:A:2865:HIS:CD2	2.52	0.44
1:A:2981:TRP:HB2	1:A:2985:GLU:HA	2.00	0.44
1:A:3492:CYS:O	1:A:3494:GLN:HG2	2.17	0.44
2:B:301:ARG:N	3:C:292:GLU:O	2.45	0.44
3:C:166:PRO:HG2	3:C:167:PHE:CE2	2.53	0.44
3:C:427:MET:SD	3:C:428:GLU:N	2.91	0.44
1:F:383:PHE:HD2	1:F:384:MET:HE2	1.83	0.44
1:F:547:ASP:OD1	1:F:547:ASP:N	2.43	0.44
1:F:687:SER:H	1:F:701:TYR:HE1	1.64	0.44
1:F:996:THR:O	1:F:1044:ILE:HD11	2.18	0.44
1:F:1111:LEU:HD22	1:F:1124:ILE:HG13	1.99	0.44
1:F:1287:GLN:HE22	1:F:1289:SER:HA	1.82	0.44
1:F:1425:ALA:HB3	1:F:1467:ILE:HG23	2.00	0.44
1:F:2327:LEU:HG	1:F:2371:PHE:CG	2.53	0.44
1:F:2505:VAL:HA	1:F:2508:GLN:HB3	1.99	0.44
1:F:2817:LEU:HB3	1:F:2865:HIS:CE1	2.52	0.44
1:F:3012:GLU:HG2	1:F:3048:LYS:HZ1	1.82	0.44
1:F:3101:TYR:HA	1:F:3104:GLN:CD	2.38	0.44
1:F:3495:PHE:HD1	1:F:3498:TRP:HD1	1.64	0.44
1:F:3593:ARG:HA	1:F:3596:LEU:HD23	1.99	0.44
1:F:3879:PRO:HG2	1:F:3882:LEU:HD23	2.00	0.44
1:F:4112:THR:HA	1:F:4117:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:204:HIS:NE2	2:G:213:ILE:HB	2.33	0.44
2:G:341:ASP:OD1	2:G:341:ASP:N	2.51	0.44
1:A:151:GLU:HG2	1:A:152:LEU:HD22	2.00	0.44
1:A:238:MET:HG2	1:A:281:GLN:C	2.38	0.44
1:A:528:VAL:HG13	1:A:532:ARG:NH2	2.32	0.44
1:A:992:ILE:O	1:A:996:THR:HG23	2.18	0.44
1:A:1909:ASN:HB3	1:A:1913:LYS:HE3	2.00	0.44
1:A:1916:ILE:HB	3:H:728:LEU:HD12	1.99	0.44
1:A:2142:ILE:O	1:A:2146:LEU:HG	2.17	0.44
1:A:2263:LYS:NZ	1:A:2265:PRO:HA	2.33	0.44
1:A:2330:VAL:HB	1:A:2336:ILE:HG13	1.98	0.44
1:A:2357:GLU:O	1:A:2360:PHE:N	2.51	0.44
1:A:2388:LYS:O	1:A:2388:LYS:HD3	2.18	0.44
1:A:3292:GLY:HA2	1:A:3295:GLU:OE2	2.18	0.44
1:A:3367:SER:CB	1:A:3372:LYS:HB2	2.47	0.44
1:A:3494:GLN:HB2	1:A:3495:PHE:CD2	2.52	0.44
1:A:3626:GLY:O	1:A:3630:ARG:N	2.30	0.44
1:A:3632:PHE:O	1:A:3635:THR:HG22	2.18	0.44
1:A:3692:VAL:HA	1:A:3696:ARG:NH2	2.32	0.44
1:A:3815:LEU:HA	1:A:3818:ASN:HB2	2.00	0.44
2:B:221:ILE:H	2:B:221:ILE:HD12	1.82	0.44
2:B:298:THR:HA	3:C:295:TYR:CD1	2.53	0.44
3:C:85:LEU:HD12	3:C:86:PRO:HD2	2.00	0.44
3:C:194:LEU:HD22	3:C:205:LEU:HD11	1.99	0.44
1:F:266:ALA:HB2	1:F:305:ASN:ND2	2.32	0.44
1:F:1298:LEU:HD23	1:F:1367:HIS:CD2	2.46	0.44
1:F:2196:TRP:CB	1:F:2199:LEU:HB2	2.46	0.44
1:F:3029:LYS:HG3	1:F:3074:GLN:CD	2.39	0.44
1:F:3519:GLU:OE2	1:F:3557:ARG:NE	2.50	0.44
1:F:3572:ILE:HA	1:F:3575:LEU:HD12	1.99	0.44
1:F:3719:ILE:HD12	1:F:3719:ILE:H	1.83	0.44
1:F:4084:SER:H	1:F:4088:ASN:HB2	1.82	0.44
2:G:271:VAL:CG1	2:G:370:PRO:CA	2.57	0.44
6:D:32:DT:H6	6:D:32:DT:H2'	1.65	0.44
7:E:36:DA:C8	7:E:37:DT:H71	2.53	0.44
1:A:67:VAL:HA	1:A:70:ARG:NH2	2.33	0.44
1:A:154:SER:O	1:A:157:TYR:HB3	2.17	0.44
1:A:675:ARG:O	1:A:679:LYS:N	2.47	0.44
1:A:944:LYS:HA	1:A:944:LYS:HD2	1.73	0.44
1:A:1436:LEU:HD11	1:A:1490:GLY:O	2.17	0.44
1:A:2576:MET:HE1	1:A:2790:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2944:THR:HG23	1:A:2944:THR:O	2.17	0.44
1:A:2966:SER:O	1:A:2970:LYS:HG2	2.17	0.44
1:A:2993:PHE:O	1:A:2996:LEU:HG	2.18	0.44
1:A:3147:LYS:HD3	1:A:3149:GLY:H	1.83	0.44
1:A:3660:ASN:O	1:A:3663:THR:OG1	2.32	0.44
1:A:3784:ARG:NE	1:A:3784:ARG:HA	2.33	0.44
1:A:4049:ARG:HA	1:A:4052:ALA:HB3	1.99	0.44
2:B:88:TYR:HB2	2:B:146:VAL:HG22	2.00	0.44
2:B:350:PHE:O	3:C:462:SER:HA	2.17	0.44
2:B:514:MET:HA	2:B:517:ARG:CB	2.48	0.44
3:C:35:LYS:HE3	3:C:95:GLU:HA	1.98	0.44
3:C:406:GLY:HA3	3:C:422:VAL:O	2.18	0.44
3:C:492:GLN:O	3:C:496:HIS:HB2	2.18	0.44
3:C:496:HIS:O	3:C:500:HIS:HB2	2.18	0.44
3:C:640:ARG:HG3	3:C:685:LEU:HD11	1.99	0.44
1:F:294:PHE:O	1:F:298:LEU:HD23	2.18	0.44
1:F:397:LEU:O	1:F:437:HIS:NE2	2.42	0.44
1:F:430:VAL:O	1:F:433:PRO:HD2	2.17	0.44
1:F:554:ASN:C	1:F:554:ASN:ND2	2.70	0.44
1:F:781:ASP:OD1	1:F:784:VAL:HG12	2.18	0.44
1:F:867:ASN:OD1	1:F:868:LYS:N	2.51	0.44
1:F:1071:ASN:HB3	1:F:1074:LYS:CG	2.40	0.44
1:F:1082:PHE:HA	1:F:1085:ILE:CG1	2.47	0.44
1:F:1155:ARG:NH2	1:F:3690:PHE:O	2.50	0.44
1:F:1247:PRO:HA	1:F:1314:GLY:HA2	2.00	0.44
1:F:1528:LEU:O	1:F:1532:LEU:HG	2.17	0.44
1:F:1986:ARG:HA	1:F:2184:TYR:HB3	1.99	0.44
1:F:2782:ASP:CG	1:F:2785:ILE:HD11	2.38	0.44
1:F:3264:LYS:HA	1:F:3267:LYS:HE2	2.00	0.44
1:F:3385:LEU:O	1:F:3389:VAL:HG23	2.18	0.44
1:F:3758:LEU:H	1:F:3795:PRO:HB3	1.83	0.44
1:F:3770:VAL:O	1:F:3774:ILE:HG13	2.18	0.44
1:F:3818:ASN:HA	1:F:3825:LYS:NZ	2.32	0.44
1:F:3970:LEU:HD12	1:F:3971:MET:N	2.33	0.44
3:H:527:GLN:HA	3:H:530:LEU:HB3	1.99	0.44
7:E:39:DA:H2'	7:E:40:DT:H71	2.00	0.44
1:A:207:GLN:HA	1:A:207:GLN:HE21	1.83	0.43
1:A:721:TYR:C	1:A:726:LEU:HB2	2.38	0.43
1:A:1057:LYS:HG2	1:A:1061:LYS:NZ	2.33	0.43
1:A:1176:CYS:C	1:A:1178:ARG:H	2.21	0.43
1:A:1324:PRO:HG2	1:A:1325:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1563:PHE:HB3	1:A:1566:THR:HG1	1.83	0.43
1:A:2093:CYS:C	1:A:2096:PRO:HD2	2.38	0.43
1:A:2576:MET:HB2	1:A:2783:ILE:HG22	2.00	0.43
1:A:3327:ASN:HD21	1:A:3387:GLU:HG2	1.83	0.43
1:A:3349:ALA:O	1:A:3357:ARG:NH1	2.51	0.43
1:A:3499:ILE:H	1:A:3499:ILE:HD12	1.83	0.43
1:A:3710:LYS:NZ	1:A:3713:PRO:HG3	2.32	0.43
1:A:4079:ALA:O	1:A:4083:GLY:N	2.51	0.43
1:A:4101:GLU:HA	1:A:4104:VAL:HG22	2.00	0.43
2:B:46:LYS:O	2:B:48:MET:N	2.51	0.43
3:C:233:LYS:HD3	3:C:478:PRO:HG2	2.00	0.43
1:F:78:PHE:HB3	1:F:82:ARG:NH1	2.33	0.43
1:F:726:LEU:HA	1:F:729:CYS:SG	2.58	0.43
1:F:933:LEU:HD11	1:F:2797:VAL:HG11	1.99	0.43
1:F:990:GLN:HA	1:F:2779:ASP:O	2.18	0.43
1:F:1070:PRO:HG3	1:F:3720:ALA:O	2.18	0.43
1:F:1292:LYS:HG3	1:F:1296:PHE:CZ	2.53	0.43
1:F:1366:THR:H	1:F:1369:MET:CE	2.31	0.43
1:F:1487:VAL:HG22	1:F:1559:PHE:CD1	2.53	0.43
1:F:1488:TYR:HA	1:F:1559:PHE:HZ	1.82	0.43
1:F:1590:THR:HG22	1:F:1632:TRP:CZ2	2.53	0.43
1:F:1725:GLN:HG3	1:F:1728:GLU:H	1.82	0.43
1:F:2091:HIS:O	1:F:2094:MET:HE3	2.18	0.43
1:F:2286:PRO:HG2	1:F:2289:ASP:HB2	2.00	0.43
1:F:2451:LEU:O	1:F:2455:LEU:HG	2.17	0.43
1:F:3810:VAL:HG11	1:F:3815:LEU:HD22	2.00	0.43
2:G:461:LYS:HG2	2:G:525:PHE:HB3	1.99	0.43
3:H:11:VAL:N	3:H:133:GLU:OE1	2.43	0.43
3:H:168:SER:O	3:H:194:LEU:HB3	2.18	0.43
3:H:674:PHE:CD1	3:H:676:GLU:HG2	2.53	0.43
1:A:201:LEU:HD12	1:A:202:GLY:N	2.33	0.43
1:A:899:ARG:NH2	1:A:2568:MET:HB3	2.33	0.43
1:A:939:MET:HA	1:A:942:LEU:HD12	2.00	0.43
1:A:1297:PHE:HA	1:A:1300:SER:CB	2.48	0.43
1:A:1497:ARG:NH2	1:A:1541:ALA:HB2	2.33	0.43
1:A:1589:ASN:ND2	1:A:1593:VAL:HG13	2.33	0.43
1:A:1616:LEU:HD12	1:A:1617:LYS:N	2.32	0.43
1:A:1715:GLU:O	1:A:1719:VAL:HG22	2.18	0.43
1:A:1850:VAL:CG1	1:A:1870:LYS:HG2	2.48	0.43
1:A:2368:THR:OG1	1:A:2400:VAL:HG23	2.18	0.43
1:A:2432:GLN:O	1:A:2436:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2900:LEU:HD23	1:A:2900:LEU:H	1.82	0.43
1:A:3951:GLN:OE1	1:A:3951:GLN:N	2.52	0.43
2:B:328:ILE:HD12	3:C:279:VAL:HG21	1.99	0.43
1:F:393:LYS:HA	1:F:397:LEU:HD23	2.00	0.43
1:F:451:PRO:O	1:F:455:LEU:N	2.51	0.43
1:F:566:ASP:O	1:F:570:LYS:HG2	2.18	0.43
1:F:572:VAL:O	1:F:576:VAL:HG23	2.18	0.43
1:F:723:ASP:C	1:F:725:LEU:H	2.21	0.43
1:F:746:ARG:O	1:F:749:VAL:HG22	2.18	0.43
1:F:1594:SER:O	1:F:1598:ASN:ND2	2.52	0.43
1:F:1922:ALA:O	1:F:1925:GLU:HB2	2.18	0.43
1:F:1925:GLU:OE2	1:F:1927:MET:HB2	2.18	0.43
1:F:2424:MET:HA	1:F:2432:GLN:HE22	1.83	0.43
1:F:2428:ASP:C	1:F:2432:GLN:HG2	2.38	0.43
1:F:2452:ARG:HB3	1:F:2498:ILE:CG1	2.48	0.43
1:F:2453:GLU:HG2	1:F:2454:LEU:HD22	1.99	0.43
1:F:2467:THR:HA	1:F:2470:ARG:HH21	1.82	0.43
1:F:2507:ILE:HG23	1:F:2547:SER:HB2	2.01	0.43
1:F:2820:MET:SD	1:F:2829:LYS:HG2	2.58	0.43
1:F:3252:PHE:O	1:F:3255:ALA:N	2.49	0.43
1:F:3256:MET:SD	1:F:3283:LEU:HD22	2.57	0.43
1:F:3875:GLU:HA	1:F:3878:VAL:HB	1.99	0.43
1:F:3925:LEU:HD23	1:F:3925:LEU:O	2.18	0.43
2:G:48:MET:O	2:G:60:PHE:N	2.51	0.43
2:G:351:LYS:N	2:G:395:ALA:O	2.34	0.43
2:G:415:PRO:HA	2:G:432:PHE:HD1	1.81	0.43
3:H:114:SER:HA	3:H:117:VAL:HG22	2.00	0.43
3:H:405:VAL:HG22	3:H:426:PHE:CZ	2.53	0.43
1:A:938:VAL:O	1:A:942:LEU:HG	2.18	0.43
1:A:1010:LEU:O	1:A:1014:LEU:HG	2.18	0.43
1:A:1866:GLN:O	1:A:1870:LYS:HG3	2.18	0.43
1:A:1892:LYS:O	1:A:1907:GLU:HA	2.18	0.43
1:A:2267:SER:OG	1:A:2268:LYS:N	2.50	0.43
1:A:2363:CYS:SG	1:A:2364:LEU:N	2.90	0.43
1:A:2440:TYR:HB2	1:A:2476:ILE:HD11	2.00	0.43
1:A:2572:TYR:HB3	1:A:2573:PRO:HD3	2.00	0.43
1:A:2944:THR:HA	1:A:2948:GLY:CA	2.45	0.43
1:A:3111:MET:SD	1:A:3112:GLN:N	2.91	0.43
1:A:3192:LYS:O	1:A:3196:LYS:NZ	2.52	0.43
1:A:3681:LYS:NZ	1:A:3726:VAL:HG13	2.32	0.43
1:A:3924:HIS:HD2	1:A:3926:ASN:HB2	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:363:ARG:HB2	2:B:436:PHE:CE2	2.45	0.43
3:C:395:TYR:HB3	3:C:404:GLN:HB2	1.99	0.43
1:F:344:GLN:O	1:F:346:TYR:N	2.51	0.43
1:F:669:LEU:O	1:F:673:THR:HG23	2.18	0.43
1:F:1048:GLN:O	1:F:1052:SER:OG	2.27	0.43
1:F:1282:LEU:HD23	1:F:1282:LEU:H	1.83	0.43
1:F:1634:ALA:N	1:F:1637:SER:OG	2.45	0.43
1:F:1877:LEU:HD12	1:F:1878:ASP:N	2.34	0.43
1:F:2140:LEU:HD12	1:F:2141:ASN:N	2.33	0.43
1:F:3065:ILE:HG12	1:F:3086:LEU:HD11	2.01	0.43
1:F:3571:PHE:HD1	1:F:3686:TRP:HZ3	1.66	0.43
1:F:3575:LEU:HD22	1:F:3752:VAL:HG21	2.00	0.43
1:F:3755:GLY:HA2	1:F:3799:ARG:C	2.38	0.43
1:F:4037:ASN:HB3	1:F:4039:TYR:CE2	2.53	0.43
2:G:372:GLU:OE1	2:G:377:GLY:N	2.43	0.43
2:G:417:GLU:N	2:G:417:GLU:OE1	2.51	0.43
3:H:164:PHE:CE1	3:H:225:TYR:HB3	2.53	0.43
3:H:213:ILE:O	3:H:217:GLY:HA2	2.18	0.43
6:D:18:DA:C4	7:E:39:DA:N1	2.86	0.43
1:A:162:LEU:HD12	2:B:299:LYS:CD	2.48	0.43
1:A:216:LYS:HA	1:A:216:LYS:HE3	2.00	0.43
1:A:394:GLN:HA	1:A:398:THR:HG21	2.00	0.43
1:A:710:PHE:O	1:A:714:VAL:HG22	2.19	0.43
1:A:933:LEU:CD2	1:A:2793:PRO:HB2	2.49	0.43
1:A:1394:HIS:HE1	1:A:1398:VAL:HB	1.83	0.43
1:A:1534:ASN:OD1	1:A:1534:ASN:N	2.51	0.43
1:A:1672:PHE:HD1	1:A:1699:PHE:CE1	2.36	0.43
1:A:1858:LEU:HD11	1:A:1932:GLN:OE1	2.18	0.43
1:A:2097:LEU:HD22	1:A:2149:LEU:HD22	2.00	0.43
1:A:2128:PHE:O	1:A:2132:LYS:HG3	2.19	0.43
1:A:3165:THR:HA	1:A:3168:TYR:CE2	2.54	0.43
1:A:3314:SER:OG	1:A:3317:SER:OG	2.26	0.43
1:A:3369:ASP:OD1	1:A:3369:ASP:N	2.51	0.43
1:A:3591:ASP:HA	1:A:3594:ALA:HB3	2.00	0.43
1:A:3915:HIS:O	1:A:3919:GLY:N	2.50	0.43
1:A:3931:ALA:O	1:A:3935:GLY:N	2.51	0.43
2:B:142:SER:O	2:B:146:VAL:HG23	2.19	0.43
3:C:58:LEU:O	3:C:77:ILE:HA	2.17	0.43
1:F:13:LEU:HD22	1:F:59:PHE:CD1	2.39	0.43
1:F:374:LYS:O	1:F:378:ALA:HB2	2.18	0.43
1:F:1560:TYR:CE1	1:F:1596:VAL:HG12	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1893:GLU:OE2	1:F:1895:LYS:NZ	2.42	0.43
1:F:2147:ALA:HB2	1:F:2171:LEU:HD21	2.00	0.43
1:F:2185:MET:HA	1:F:2188:GLU:HG2	2.01	0.43
1:F:2514:ASN:OD1	1:F:2517:LEU:HG	2.19	0.43
1:F:2553:HIS:CE1	1:F:2557:LEU:HD11	2.54	0.43
1:F:3123:GLN:HA	1:F:3126:LEU:HD13	1.99	0.43
1:F:3340:ALA:O	1:F:3343:SER:OG	2.28	0.43
1:F:3500:SER:HA	1:F:3503:VAL:HG12	2.00	0.43
1:F:3669:LYS:HG3	1:F:3670:MET:SD	2.58	0.43
1:F:3913:ILE:HB	1:F:3984:MET:HG3	1.99	0.43
1:F:4089:ILE:O	1:F:4093:GLU:HG2	2.18	0.43
2:G:161:MET:HE1	2:G:164:LYS:HB3	2.00	0.43
2:G:239:LEU:HA	2:G:242:LEU:HD22	1.99	0.43
2:G:285:PRO:HB3	3:H:312:GLN:HB3	2.00	0.43
2:G:306:SER:HB3	3:H:288:ASP:OD2	2.18	0.43
2:G:339:ARG:HD3	2:G:340:PHE:N	2.33	0.43
3:H:233:LYS:HA	3:H:481:LYS:NZ	2.33	0.43
3:H:529:PRO:O	3:H:533:ILE:HD12	2.18	0.43
4:J:21:DA:C6	5:I:36:DA:N6	2.87	0.43
1:A:173:LYS:O	1:A:176:GLU:HB2	2.19	0.43
1:A:270:ALA:O	1:A:273:ARG:HG2	2.19	0.43
1:A:829:VAL:HG23	1:A:830:VAL:HG23	2.00	0.43
1:A:881:LYS:HG2	1:A:883:TYR:HB2	2.00	0.43
1:A:886:TRP:HZ3	1:A:911:LEU:HB3	1.82	0.43
1:A:1202:ARG:O	1:A:1207:TRP:HB2	2.18	0.43
1:A:2087:GLU:OE1	1:A:2090:ARG:HD3	2.19	0.43
1:A:3236:PHE:CE2	1:A:3272:TRP:HA	2.53	0.43
1:A:3480:LEU:C	1:A:3482:LEU:H	2.21	0.43
1:A:3511:ALA:HB1	1:A:3514:VAL:CG2	2.48	0.43
1:A:3513:ALA:C	1:A:3515:GLN:N	2.70	0.43
1:A:3860:LYS:HD3	1:A:4073:ALA:N	2.34	0.43
1:A:3951:GLN:NE2	1:A:4063:GLU:OE2	2.52	0.43
1:A:4089:ILE:HG23	1:A:4092:GLN:NE2	2.34	0.43
3:C:250:ARG:HH11	3:C:260:ARG:HH12	1.65	0.43
3:C:411:HIS:O	3:C:417:GLU:HB3	2.19	0.43
1:F:188:GLU:HG2	1:F:189:MET:SD	2.58	0.43
1:F:291:VAL:HG13	1:F:344:GLN:NE2	2.34	0.43
1:F:535:LEU:HB3	1:F:637:LYS:HE3	1.99	0.43
1:F:1579:VAL:O	1:F:1583:MET:HB2	2.18	0.43
1:F:1608:ARG:HE	1:F:1608:ARG:HB3	1.65	0.43
1:F:2328:ARG:CD	1:F:2333:ARG:HD3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2824:LYS:HA	1:F:2824:LYS:HD3	1.65	0.43
1:F:3559:LYS:HB2	1:F:3564:GLN:NE2	2.33	0.43
1:F:3766:GLN:O	1:F:3770:VAL:HG23	2.17	0.43
1:F:3822:GLN:HG2	1:F:3823:GLU:N	2.34	0.43
1:F:3982:SER:HB2	1:F:3986:HIS:CE1	2.54	0.43
1:F:4048:LYS:HA	1:F:4051:LEU:HG	2.00	0.43
2:G:76:ILE:HD13	2:G:248:ALA:HA	2.00	0.43
2:G:82:LEU:HD11	2:G:108:LEU:C	2.38	0.43
2:G:468:LYS:HG2	2:G:518:LEU:O	2.19	0.43
3:H:106:ASP:CG	3:H:143:SER:H	2.22	0.43
1:A:101:ALA:N	1:A:102:PRO:HD2	2.34	0.43
1:A:211:ALA:HB1	1:A:215:PRO:O	2.18	0.43
1:A:307:GLU:O	1:A:310:LYS:HE2	2.17	0.43
1:A:312:ALA:O	1:A:316:LEU:HG	2.18	0.43
1:A:377:ASN:HB3	1:A:380:ASP:OD2	2.18	0.43
1:A:452:LYS:O	1:A:455:LEU:HB2	2.18	0.43
1:A:1372:LEU:O	1:A:1375:THR:OG1	2.24	0.43
1:A:1901:HIS:ND1	1:A:1903:SER:OG	2.47	0.43
1:A:1938:ARG:HA	1:A:1941:HIS:ND1	2.33	0.43
1:A:2238:ILE:HA	1:A:2241:LEU:HB2	2.01	0.43
1:A:2258:GLU:HA	1:A:2261:SER:CB	2.49	0.43
1:A:2306:ASN:HA	1:A:2309:PHE:CZ	2.54	0.43
1:A:2918:PRO:O	1:A:2921:LEU:HB3	2.19	0.43
1:A:3531:TYR:OH	1:A:3568:ILE:HD11	2.18	0.43
1:A:3762:GLN:HG2	1:A:3795:PRO:HD3	2.00	0.43
2:B:239:LEU:HA	2:B:242:LEU:HD12	2.00	0.43
2:B:256:LEU:HD23	2:B:256:LEU:H	1.83	0.43
3:C:70:GLY:HA3	3:C:74:TYR:CE2	2.53	0.43
3:C:312:GLN:O	3:C:323:PHE:HB2	2.17	0.43
3:C:626:THR:HG23	3:C:632:PHE:CE2	2.54	0.43
1:F:22:ALA:CB	1:F:34:LEU:HD21	2.49	0.43
1:F:152:LEU:HD13	1:F:155:LYS:HE3	2.00	0.43
1:F:726:LEU:O	1:F:729:CYS:HB2	2.18	0.43
1:F:854:ARG:HA	1:F:857:GLN:NE2	2.33	0.43
1:F:886:TRP:HE1	1:F:912:PRO:HB3	1.84	0.43
1:F:894:PHE:HB2	1:F:940:PHE:CE2	2.53	0.43
1:F:932:GLU:O	1:F:936:SER:N	2.49	0.43
1:F:1102:GLU:HG2	1:F:1152:ARG:CG	2.47	0.43
1:F:1157:PHE:CD1	1:F:1159:PRO:HD2	2.54	0.43
1:F:1333:SER:O	1:F:1337:VAL:HG23	2.18	0.43
1:F:1377:CYS:SG	1:F:1378:GLU:N	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1489:LYS:HD2	1:F:1495:ASP:HB3	1.99	0.43
1:F:2139:PRO:O	1:F:2143:ARG:HG3	2.18	0.43
1:F:2203:THR:HB	1:F:2248:CYS:SG	2.58	0.43
1:F:2560:ASN:ND2	1:F:2795:GLN:HB2	2.34	0.43
1:F:2991:LYS:HA	1:F:2994:TRP:CD2	2.54	0.43
1:F:3060:SER:O	1:F:3063:THR:HB	2.17	0.43
1:F:3613:MET:HB3	1:F:3640:PHE:HE1	1.83	0.43
1:F:3830:SER:HA	1:F:3833:ARG:NH1	2.34	0.43
2:G:77:SER:HA	2:G:249:LYS:O	2.17	0.43
2:G:214:SER:HB3	2:G:218:ARG:HG2	1.99	0.43
2:G:413:LEU:HD11	2:G:432:PHE:HB3	2.01	0.43
1:A:131:LEU:HD21	1:A:173:LYS:HG2	2.00	0.43
1:A:183:GLU:OE2	1:A:185:HIS:HA	2.18	0.43
1:A:230:LEU:HB3	1:A:234:PHE:CZ	2.54	0.43
1:A:723:ASP:C	1:A:725:LEU:H	2.22	0.43
1:A:900:GLU:O	1:A:902:LYS:HD3	2.19	0.43
1:A:939:MET:HE2	1:A:2783:ILE:HG12	2.00	0.43
1:A:1009:LEU:HA	1:A:1012:ALA:HB3	2.01	0.43
1:A:1208:LEU:O	1:A:1211:VAL:HG22	2.18	0.43
1:A:1334:LYS:HE2	1:A:1383:GLY:H	1.84	0.43
1:A:1835:ALA:HA	1:A:1838:GLU:OE2	2.19	0.43
1:A:1891:ALA:HB1	1:A:1895:LYS:H	1.83	0.43
1:A:2368:THR:HA	1:A:2371:PHE:O	2.19	0.43
1:A:2494:ASP:O	1:A:2497:GLU:HG3	2.19	0.43
1:A:2540:LEU:HD13	1:A:2543:ASN:ND2	2.26	0.43
1:A:2780:LEU:HD12	1:A:2781:PRO:HD2	2.01	0.43
1:A:2952:ILE:CG1	1:A:2971:GLN:HB3	2.49	0.43
1:A:3008:TRP:O	1:A:3011:LEU:N	2.52	0.43
1:A:3126:LEU:O	1:A:3129:LEU:HB3	2.18	0.43
1:A:3769:GLN:OE1	1:A:3790:THR:HB	2.18	0.43
1:A:3835:PRO:HG3	1:A:4127:TRP:HZ2	1.84	0.43
1:A:3963:LEU:HA	1:A:3967:PHE:HE2	1.84	0.43
2:B:82:LEU:HD11	2:B:108:LEU:C	2.39	0.43
2:B:414:VAL:CG1	2:B:433:GLN:HB3	2.48	0.43
3:C:104:GLN:O	3:C:141:ARG:NH2	2.51	0.43
3:C:166:PRO:HA	3:C:227:PHE:H	1.84	0.43
3:C:484:ASN:HB3	3:C:487:PHE:CD2	2.54	0.43
3:C:569:THR:O	3:C:570:GLU:HB2	2.18	0.43
3:C:689:GLU:O	3:C:696:VAL:HG21	2.18	0.43
1:F:73:LEU:O	1:F:75:SER:N	2.43	0.43
1:F:317:GLU:CG	1:F:364:ARG:HH22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:854:ARG:HA	1:F:857:GLN:HG2	2.00	0.43
1:F:1093:GLU:HA	1:F:1096:VAL:HG22	2.01	0.43
1:F:1305:ASP:OD1	1:F:1305:ASP:N	2.51	0.43
1:F:1418:HIS:HA	1:F:1421:GLU:HG2	2.01	0.43
1:F:1577:LEU:O	1:F:1580:LEU:N	2.52	0.43
1:F:1673:THR:HA	1:F:1676:ILE:HD12	2.01	0.43
1:F:1700:THR:HG21	1:F:1757:MET:SD	2.58	0.43
1:F:1971:PRO:C	1:F:1973:LYS:H	2.20	0.43
1:F:2459:VAL:HG21	1:F:2505:VAL:CG1	2.49	0.43
1:F:3076:ALA:HA	1:F:3079:GLU:HG3	2.00	0.43
1:F:3081:HIS:HB2	1:F:3082:TYR:CE2	2.54	0.43
1:F:3828:TYR:CE2	1:F:3879:PRO:HD3	2.48	0.43
2:G:239:LEU:O	2:G:242:LEU:HB2	2.19	0.43
3:H:81:ARG:HD3	3:H:82:HIS:O	2.19	0.43
3:H:599:ARG:HD2	3:H:638:CYS:HB2	2.01	0.43
3:H:656:ASN:HA	3:H:688:LYS:NZ	2.34	0.43
4:J:25:DT:H2"	4:J:26:DT:C6	2.53	0.43
6:D:22:DG:C2	7:E:35:DT:O2	2.72	0.43
1:A:292:SER:HA	1:A:295:GLU:OE2	2.18	0.43
1:A:371:GLY:O	1:A:375:VAL:HG12	2.17	0.43
1:A:397:LEU:HB2	1:A:441:MET:HE3	2.01	0.43
1:A:490:ILE:HD12	1:A:629:PHE:CE2	2.54	0.43
1:A:793:LEU:HB3	1:A:870:LEU:CB	2.39	0.43
1:A:1821:ASP:HA	1:A:1825:LEU:CD1	2.49	0.43
1:A:2402:LEU:HD22	1:A:2434:VAL:HB	2.01	0.43
1:A:2939:LEU:CA	1:A:2942:ILE:HG22	2.49	0.43
1:A:3499:ILE:HG21	1:A:3529:ILE:HD12	2.01	0.43
1:A:3681:LYS:HZ1	1:A:3726:VAL:H	1.66	0.43
1:A:4014:LYS:HA	1:A:4017:GLU:OE1	2.18	0.43
1:A:4069:GLU:N	1:A:4069:GLU:OE1	2.51	0.43
2:B:58:THR:O	2:B:62:MET:HG3	2.19	0.43
2:B:274:TYR:HB2	2:B:367:PHE:HD2	1.83	0.43
2:B:415:PRO:HB3	2:B:432:PHE:CE1	2.54	0.43
3:C:262:ALA:HB3	3:C:368:ARG:NH1	2.34	0.43
3:C:294:VAL:O	3:C:295:TYR:HD1	2.02	0.43
3:C:528:ILE:HB	3:C:529:PRO:HD3	2.00	0.43
3:C:658:PHE:O	3:C:662:LEU:HG	2.19	0.43
1:F:67:VAL:HA	1:F:70:ARG:CZ	2.49	0.43
1:F:135:LEU:HD23	1:F:138:PHE:CD2	2.53	0.43
1:F:186:PRO:HG2	1:F:188:GLU:OE2	2.18	0.43
1:F:292:SER:HA	1:F:295:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:VAL:HG12	1:F:1731:PRO:O	2.19	0.43
1:F:665:GLY:O	1:F:669:LEU:HG	2.19	0.43
1:F:764:PRO:O	1:F:768:VAL:HG22	2.18	0.43
1:F:888:ARG:NH2	1:F:3819:THR:HG22	2.34	0.43
1:F:901:MET:N	1:F:901:MET:SD	2.92	0.43
1:F:1645:VAL:O	1:F:1649:LEU:HG	2.19	0.43
1:F:1718:ILE:O	1:F:1722:PHE:HD1	2.02	0.43
1:F:2161:ALA:HB1	1:F:2196:TRP:CZ2	2.54	0.43
1:F:2353:GLN:HA	1:F:2356:MET:HG3	2.00	0.43
1:F:2466:SER:C	1:F:2468:THR:H	2.22	0.43
1:F:2536:LEU:HA	1:F:2539:LEU:HD13	2.00	0.43
1:F:2791:ILE:HA	1:F:2794:LEU:CD1	2.49	0.43
1:F:2859:GLN:HE21	1:F:2888:VAL:HG13	1.84	0.43
1:F:3154:GLN:O	1:F:3157:LEU:HB2	2.19	0.43
1:F:3486:GLU:C	1:F:3488:SER:N	2.71	0.43
1:F:3931:ALA:HB1	1:F:3933:GLU:CD	2.39	0.43
5:I:35:DT:C2'	5:I:36:DA:H5'	2.48	0.43
5:I:37:DT:H2'	5:I:38:DT:C4	2.53	0.43
1:A:170:VAL:HG23	6:D:21:DA:H5'	2.01	0.43
1:A:309:LYS:HD3	1:A:309:LYS:N	2.34	0.43
1:A:407:VAL:C	1:A:449:TYR:CE2	2.91	0.43
1:A:850:GLU:O	1:A:853:ILE:HB	2.18	0.43
1:A:881:LYS:NZ	1:A:884:VAL:HA	2.34	0.43
1:A:901:MET:N	1:A:901:MET:SD	2.91	0.43
1:A:934:LEU:O	1:A:938:VAL:HG13	2.19	0.43
1:A:1058:SER:HA	1:A:1061:LYS:NZ	2.34	0.43
1:A:1105:VAL:CG1	1:A:1156:GLY:HA3	2.48	0.43
1:A:1202:ARG:CZ	1:A:1207:TRP:CD1	3.02	0.43
1:A:1526:GLU:HG2	1:A:1527:ARG:N	2.34	0.43
1:A:2100:LEU:HA	1:A:2103:HIS:HB3	2.01	0.43
1:A:2213:ASN:HD21	1:A:2249:LEU:HA	1.84	0.43
1:A:2396:LEU:O	1:A:2400:VAL:HG12	2.18	0.43
1:A:2405:VAL:HG13	1:A:2406:GLU:HG2	2.01	0.43
1:A:2919:ASP:O	1:A:2922:ARG:HG2	2.18	0.43
1:A:3047:SER:O	1:A:3051:LEU:HB2	2.19	0.43
1:A:3183:ILE:HD13	1:A:3186:ARG:HH21	1.83	0.43
1:A:3247:ARG:NH1	1:A:3282:ARG:HB2	2.34	0.43
1:A:3513:ALA:C	1:A:3515:GLN:H	2.22	0.43
1:A:3863:ASN:O	1:A:3867:THR:HG23	2.19	0.43
1:A:3889:ARG:HD2	1:A:3889:ARG:HA	1.78	0.43
1:A:3918:LEU:HB3	1:A:3920:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4007:LYS:HA	1:A:4007:LYS:HE3	2.00	0.43
3:C:72:ASP:O	3:C:75:GLN:HG2	2.19	0.43
3:C:280:ASP:OD2	3:C:282:LYS:NZ	2.44	0.43
3:C:668:ILE:HG13	3:C:669:LYS:H	1.84	0.43
1:F:264:ARG:NH1	5:I:39:DA:H4'	2.33	0.43
1:F:848:LEU:HD23	1:F:848:LEU:H	1.84	0.43
1:F:1172:LEU:HD11	1:F:1187:SER:HB2	2.00	0.43
1:F:3361:GLU:OE1	1:F:3367:SER:N	2.37	0.43
1:F:3389:VAL:HG13	1:F:3413:TYR:HE1	1.83	0.43
3:H:45:GLN:HA	3:H:50:ASN:OD1	2.18	0.43
1:A:461:ILE:HG23	1:A:465:PHE:CE2	2.54	0.43
1:A:901:MET:HG3	1:A:2819:GLU:HG2	2.00	0.43
1:A:1065:SER:O	1:A:1068:LEU:HG	2.18	0.43
1:A:1348:LEU:HB3	1:A:1359:LEU:HD13	2.00	0.43
1:A:2295:GLN:NE2	1:A:2298:GLU:H	2.17	0.43
1:A:2319:ALA:O	1:A:2323:LEU:HD23	2.18	0.43
1:A:2575:PRO:O	1:A:2787:HIS:NE2	2.52	0.43
1:A:2851:PHE:HB3	1:A:2854:PHE:HB2	2.01	0.43
1:A:3059:GLN:HA	1:A:3062:LEU:HB3	2.00	0.43
1:A:3098:ARG:HD3	1:A:3102:TYR:CE1	2.53	0.43
1:A:3263:HIS:HB2	1:A:3276:TRP:NE1	2.34	0.43
1:A:3912:CYS:HB3	1:A:3961:PHE:CD2	2.54	0.43
2:B:312:LEU:HB2	2:B:315:ASP:CG	2.40	0.43
2:B:347:LEU:HD11	2:B:396:ALA:HB1	2.01	0.43
2:B:365:SER:OG	2:B:366:LEU:N	2.51	0.43
2:B:480:ASN:ND2	2:B:483:LEU:HB2	2.33	0.43
3:C:64:THR:HB	3:C:76:ASN:H	1.84	0.43
3:C:109:ASP:O	3:C:113:VAL:HG23	2.18	0.43
3:C:357:MET:CE	3:C:425:PRO:HA	2.48	0.43
3:C:553:ILE:HG23	3:C:555:GLN:O	2.19	0.43
1:F:225:LYS:HD2	1:F:270:ALA:HB3	2.00	0.43
1:F:897:PRO:HG3	1:F:2787:HIS:CD2	2.54	0.43
1:F:930:ALA:HA	1:F:933:LEU:HD12	2.00	0.43
1:F:932:GLU:CG	1:F:2773:ARG:HH21	2.32	0.43
1:F:1614:GLN:H	1:F:1614:GLN:CD	2.21	0.43
1:F:2214:ARG:HH12	1:F:2215:LEU:CD2	2.31	0.43
1:F:2295:GLN:CB	1:F:2298:GLU:HG2	2.49	0.43
1:F:2886:GLN:O	1:F:2890:ILE:N	2.41	0.43
1:F:3149:GLY:O	1:F:3152:SER:OG	2.27	0.43
1:F:3527:GLN:NE2	1:F:3705:TYR:OH	2.52	0.43
2:G:203:MET:HE2	2:G:239:LEU:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:247:TRP:NE1	3:H:338:LYS:HD2	2.34	0.43
3:H:679:VAL:O	3:H:683:ILE:HG12	2.19	0.43
5:I:18:DG:N2	5:I:19:DC:N3	2.67	0.43
1:A:309:LYS:HA	1:A:312:ALA:HB3	2.01	0.42
1:A:730:LEU:O	1:A:733:LEU:HB2	2.18	0.42
1:A:994:TRP:HZ3	1:A:2582:SER:HB2	1.84	0.42
1:A:1148:ALA:HB1	1:A:1162:SER:HB3	2.01	0.42
1:A:1150:LYS:NZ	1:A:1162:SER:HB2	2.34	0.42
1:A:1236:LEU:O	1:A:1239:PRO:HD3	2.18	0.42
1:A:1711:ARG:HG3	1:A:1712:ARG:N	2.33	0.42
1:A:1983:ASP:OD2	1:A:2183:HIS:ND1	2.52	0.42
1:A:2091:HIS:CE1	1:A:2094:MET:N	2.87	0.42
1:A:2442:MET:SD	1:A:2442:MET:N	2.92	0.42
1:A:2803:ILE:HG23	1:A:2807:GLN:HE22	1.83	0.42
1:A:2828:GLU:O	1:A:2832:ILE:HG13	2.19	0.42
1:A:2850:PHE:CD2	1:A:2882:ALA:HB3	2.53	0.42
1:A:3185:ASN:HB3	1:A:3189:PHE:CZ	2.54	0.42
1:A:4006:VAL:HG13	1:A:4007:LYS:HD2	2.01	0.42
2:B:303:PHE:O	3:C:290:GLN:N	2.52	0.42
2:B:399:ARG:HB3	2:B:410:PHE:HD1	1.84	0.42
2:B:400:TYR:OH	2:B:402:PRO:HA	2.18	0.42
3:C:194:LEU:O	3:C:202:LYS:HG2	2.18	0.42
3:C:437:SER:HB2	3:C:440:ASN:HD21	1.84	0.42
3:C:671:LEU:HB2	3:C:674:PHE:CE1	2.53	0.42
1:F:261:ASP:N	1:F:261:ASP:OD1	2.50	0.42
1:F:304:THR:HA	1:F:309:LYS:NZ	2.34	0.42
1:F:1039:TRP:HB3	1:F:1043:GLN:NE2	2.34	0.42
1:F:1268:ASN:OD1	1:F:1344:PHE:HA	2.19	0.42
1:F:2382:VAL:HA	1:F:2385:LEU:HG	2.01	0.42
1:F:2409:THR:HA	1:F:2445:LYS:HE3	2.01	0.42
1:F:2819:GLU:HA	1:F:2822:LYS:NZ	2.34	0.42
1:F:3270:ASP:HA	1:F:3273:LEU:HB3	2.01	0.42
1:F:3319:ASN:OD1	1:F:3322:ALA:N	2.51	0.42
1:F:3496:ILE:HD12	1:F:3496:ILE:H	1.84	0.42
1:F:3550:LYS:HE2	1:F:3550:LYS:HB2	1.83	0.42
1:F:3602:ASN:HB2	1:F:3651:LEU:HD13	2.01	0.42
1:F:3693:GLU:HG3	1:F:3695:LEU:H	1.84	0.42
1:F:3917:ILE:HD12	1:F:3917:ILE:HA	1.90	0.42
1:F:3953:LEU:HD11	1:F:4027:TRP:HB2	2.01	0.42
2:G:409:TYR:HB3	2:G:436:PHE:CE1	2.54	0.42
3:H:594:PRO:HA	3:H:597:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:28:DT:H2'	7:E:29:DA:C8	2.54	0.42
1:A:235:THR:OG1	1:A:236:LYS:N	2.52	0.42
1:A:322:GLN:C	1:A:324:SER:H	2.21	0.42
1:A:531:PHE:N	1:A:531:PHE:CD1	2.84	0.42
1:A:568:PHE:C	1:A:572:VAL:HG23	2.39	0.42
1:A:898:PHE:C	1:A:902:LYS:HZ2	2.22	0.42
1:A:963:LYS:HG3	1:A:964:ARG:HD2	2.02	0.42
1:A:1220:LEU:HD22	1:A:1224:PHE:CZ	2.54	0.42
1:A:1820:VAL:O	1:A:1825:LEU:HG	2.19	0.42
1:A:1884:LEU:HD12	1:A:1885:PRO:HD2	1.99	0.42
1:A:1959:LEU:HA	1:A:1961:PHE:CE2	2.54	0.42
1:A:2106:ARG:HA	1:A:2106:ARG:NH1	2.34	0.42
1:A:2136:PRO:HG2	1:A:2137:ILE:HD12	2.01	0.42
1:A:2538:ARG:HG2	1:A:2565:MET:SD	2.59	0.42
1:A:3026:ASP:OD1	1:A:3026:ASP:N	2.51	0.42
1:A:3271:ASP:N	1:A:3271:ASP:OD1	2.49	0.42
1:A:3822:GLN:HA	1:A:3825:LYS:HB3	2.01	0.42
2:B:182:LYS:HG2	2:B:185:ARG:NH2	2.34	0.42
3:C:523:THR:O	3:C:527:GLN:HG2	2.20	0.42
1:F:70:ARG:HB2	1:F:78:PHE:CD2	2.54	0.42
1:F:332:GLU:CD	1:F:334:HIS:HA	2.40	0.42
1:F:338:LEU:HB2	3:H:567:LEU:HD23	2.00	0.42
1:F:632:GLU:OE1	1:F:632:GLU:N	2.46	0.42
1:F:1023:SER:O	1:F:1027:ASP:N	2.51	0.42
1:F:1047:GLN:HA	1:F:1050:GLU:OE1	2.19	0.42
1:F:1147:LYS:HB2	1:F:1149:LYS:NZ	2.34	0.42
1:F:1172:LEU:HG	1:F:1176:CYS:SG	2.59	0.42
1:F:1418:HIS:HA	1:F:1421:GLU:CD	2.40	0.42
1:F:2146:LEU:HA	1:F:2149:LEU:HD12	2.00	0.42
1:F:3012:GLU:HG2	1:F:3048:LYS:NZ	2.34	0.42
1:F:3298:LEU:HD21	1:F:3333:THR:OG1	2.18	0.42
1:F:3315:TYR:HA	1:F:3318:LYS:HB2	2.00	0.42
1:F:3614:TYR:HB2	1:F:3648:GLY:HA3	2.00	0.42
1:F:3646:LYS:HG3	1:F:3650:LYS:HZ1	1.85	0.42
1:F:3878:VAL:HG21	1:F:4127:TRP:O	2.19	0.42
1:F:3952:PHE:CE2	1:F:4036:LYS:HB2	2.54	0.42
2:G:49:PHE:HB2	2:G:137:HIS:CE1	2.54	0.42
3:H:646:ALA:HB1	3:H:651:GLU:HB2	2.01	0.42
4:J:22:DG:N2	4:J:23:DT:C2	2.87	0.42
4:J:32:DT:H6	4:J:32:DT:H2'	1.58	0.42
6:D:16:DA:C6	7:E:42:DA:C2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:19:DA:C6	6:D:20:DT:N3	2.87	0.42
1:A:493:LYS:NZ	1:A:522:PRO:HD3	2.33	0.42
1:A:1139:GLU:HB2	1:A:1140:LYS:NZ	2.31	0.42
1:A:1301:ILE:HG23	1:A:1330:TYR:OH	2.18	0.42
1:A:1661:PHE:HA	1:A:1665:HIS:HD1	1.85	0.42
1:A:1766:LEU:HG	1:A:1822:ARG:HD2	2.01	0.42
1:A:1886:LYS:HD2	1:A:1954:CYS:O	2.19	0.42
1:A:2228:ARG:HG2	1:A:2231:PHE:HD2	1.84	0.42
1:A:2420:PHE:O	1:A:2423:VAL:HB	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:HD11	1.84	0.42
1:A:3809:THR:HA	1:A:3930:VAL:O	2.20	0.42
1:A:3960:PRO:HG2	1:A:3961:PHE:CE2	2.54	0.42
2:B:259:LEU:HG	2:B:260:LYS:H	1.83	0.42
3:C:167:PHE:CZ	3:C:197:ILE:HD13	2.55	0.42
1:F:385:TYR:HD2	1:F:420:VAL:HG22	1.84	0.42
1:F:433:PRO:HB3	1:F:6018:UNK:HA	2.01	0.42
1:F:748:TYR:O	1:F:752:LEU:HG	2.19	0.42
1:F:992:ILE:HG23	1:F:1036:PHE:HD1	1.85	0.42
1:F:1448:LEU:O	1:F:1452:VAL:HG23	2.18	0.42
1:F:1554:SER:N	1:F:1557:GLU:OE2	2.39	0.42
1:F:1642:LYS:O	1:F:1646:LEU:HD23	2.19	0.42
1:F:1708:GLU:O	1:F:1712:ARG:HG2	2.19	0.42
1:F:2425:ARG:HA	1:F:2425:ARG:HD3	1.77	0.42
1:F:2511:ILE:HD11	1:F:2550:ILE:HG23	2.00	0.42
1:F:2567:SER:HA	1:F:2572:TYR:CG	2.54	0.42
1:F:2848:PHE:CG	1:F:2849:SER:N	2.87	0.42
1:F:3176:MET:HE1	1:F:3245:SER:HB2	2.01	0.42
1:F:3246:ALA:O	1:F:3250:ASN:N	2.51	0.42
1:F:3263:HIS:HB2	1:F:3276:TRP:CZ2	2.54	0.42
1:F:3287:ARG:HA	1:F:3289:ARG:NH1	2.34	0.42
1:F:3495:PHE:HD1	1:F:3498:TRP:CD1	2.35	0.42
1:F:3791:TYR:HB2	1:F:3804:GLU:HG2	2.01	0.42
1:F:3964:THR:HG22	1:F:3967:PHE:CE2	2.54	0.42
1:F:4109:ASP:HA	1:F:4112:THR:HG22	2.02	0.42
2:G:254:ARG:N	3:H:433:TYR:HE2	2.18	0.42
2:G:330:GLU:CD	2:G:332:GLU:H	2.22	0.42
2:G:415:PRO:HA	2:G:432:PHE:CD1	2.54	0.42
2:G:471:PHE:CE1	2:G:506:LEU:HD21	2.54	0.42
1:A:606:SER:HB2	1:A:1080:LEU:HD11	2.00	0.42
1:A:671:SER:O	1:A:674:VAL:HG12	2.18	0.42
1:A:1149:LYS:H	1:A:1163:LEU:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1188:ILE:HG13	1:A:1189:GLU:H	1.84	0.42
1:A:1331:ASN:OD1	1:A:1334:LYS:NZ	2.52	0.42
1:A:1468:LEU:HD13	1:A:1521:PHE:CZ	2.54	0.42
1:A:1640:GLU:OE1	1:A:1640:GLU:N	2.39	0.42
1:A:1840:PHE:CE1	1:A:1896:ILE:HG23	2.54	0.42
1:A:2234:ASN:O	1:A:2238:ILE:HD12	2.20	0.42
1:A:2269:ASP:C	1:A:2271:SER:H	2.22	0.42
1:A:2372:PRO:HB3	1:A:2404:ARG:CZ	2.49	0.42
1:A:2466:SER:C	1:A:2468:THR:H	2.23	0.42
1:A:2954:GLN:HA	1:A:2957:LEU:CB	2.48	0.42
1:A:3190:LEU:HD23	1:A:3235:LYS:HG2	2.01	0.42
1:A:3228:SER:O	1:A:3232:ARG:HG3	2.20	0.42
1:A:3315:TYR:CE1	1:A:3323:PHE:HD1	2.37	0.42
1:A:4007:LYS:HZ3	1:A:4044:ILE:HD13	1.84	0.42
3:C:165:LEU:HD22	3:C:205:LEU:HD12	2.01	0.42
1:F:164:LYS:HD3	5:I:29:DA:H3'	1.99	0.42
1:F:341:PHE:O	1:F:345:PHE:N	2.52	0.42
1:F:1150:LYS:HD2	1:F:1150:LYS:HA	1.84	0.42
1:F:1407:LYS:NZ	1:F:1463:LEU:HD21	2.34	0.42
1:F:1560:TYR:HA	1:F:1567:ILE:HD12	2.01	0.42
1:F:1563:PHE:HB3	1:F:1566:THR:OG1	2.20	0.42
1:F:1684:LEU:HD12	1:F:1684:LEU:H	1.85	0.42
1:F:2499:PHE:O	1:F:2503:LYS:HG2	2.18	0.42
1:F:3077:ILE:HA	1:F:3080:LEU:HG	2.02	0.42
1:F:3088:LEU:O	1:F:3091:LEU:HB3	2.19	0.42
1:F:3107:ILE:HD12	1:F:3107:ILE:H	1.83	0.42
1:F:3264:LYS:HA	1:F:3267:LYS:HZ3	1.85	0.42
1:F:3588:TRP:HE1	1:F:3610:TYR:HA	1.84	0.42
1:F:3924:HIS:N	1:F:3927:ASN:OD1	2.52	0.42
3:H:130:ARG:HB3	3:H:159:ILE:HG23	2.00	0.42
3:H:596:GLU:OE1	3:H:600:VAL:HG13	2.19	0.42
1:A:30:ALA:O	1:A:33:GLN:HG2	2.20	0.42
1:A:50:VAL:HG12	1:A:51:LEU:CD2	2.49	0.42
1:A:338:LEU:O	1:A:342:MET:HG2	2.18	0.42
1:A:656:GLN:HG2	1:A:666:PHE:HE2	1.84	0.42
1:A:1206:LEU:HA	1:A:1209:LYS:HG2	2.00	0.42
1:A:1224:PHE:CD2	1:A:1267:TYR:HE1	2.38	0.42
1:A:1239:PRO:HA	1:A:1256:TRP:CH2	2.55	0.42
1:A:1388:ASP:N	1:A:1388:ASP:OD1	2.52	0.42
1:A:1560:TYR:OH	1:A:1596:VAL:HA	2.20	0.42
1:A:2228:ARG:O	1:A:2228:ARG:HD2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2251:ILE:HB	1:A:2253:TYR:CE2	2.54	0.42
1:A:2362:VAL:HG12	1:A:2396:LEU:HG	2.02	0.42
1:A:3130:GLN:NE2	1:A:3175:PRO:HD2	2.33	0.42
1:A:3480:LEU:C	1:A:3482:LEU:N	2.73	0.42
1:A:3493:TRP:HB3	1:A:3711:PRO:HD3	2.01	0.42
1:A:3572:ILE:O	1:A:3575:LEU:HB2	2.20	0.42
1:A:3690:PHE:HE2	1:A:3721:GLY:HA2	1.83	0.42
1:A:3699:LEU:O	1:A:3719:ILE:HG12	2.20	0.42
1:A:3965:ARG:O	1:A:3968:ILE:HG22	2.19	0.42
1:A:4085:LYS:NZ	1:A:4092:GLN:HB2	2.34	0.42
2:B:71:TYR:CE2	2:B:116:ILE:HG13	2.54	0.42
3:C:297:LEU:O	3:C:302:GLU:HA	2.20	0.42
3:C:459:ASP:OD1	3:C:460:SER:N	2.53	0.42
1:F:175:TYR:O	1:F:227:LEU:HD21	2.19	0.42
1:F:542:ASP:N	1:F:542:ASP:OD1	2.51	0.42
1:F:622:ALA:O	1:F:625:ASN:HB2	2.19	0.42
1:F:913:ARG:NH1	1:F:2803:ILE:HG21	2.34	0.42
1:F:1086:TYR:HE1	1:F:1137:ILE:HG13	1.84	0.42
1:F:1476:HIS:ND1	1:F:1522:GLY:O	2.51	0.42
1:F:3108:GLN:O	1:F:3111:MET:N	2.53	0.42
1:F:3577:GLN:HE21	1:F:3625:LEU:HA	1.84	0.42
1:F:3750:PHE:CD1	1:F:3804:GLU:HA	2.55	0.42
1:F:3872:ARG:HA	1:F:3875:GLU:OE1	2.19	0.42
1:F:3874:ARG:HH22	1:F:4118:GLY:HA2	1.84	0.42
1:F:4078:VAL:HG12	1:F:4082:ARG:HH21	1.84	0.42
2:G:126:GLN:HG2	2:G:130:ARG:NH1	2.34	0.42
2:G:161:MET:HE2	2:G:164:LYS:HD3	2.01	0.42
2:G:261:LEU:CG	2:G:271:VAL:HG21	2.49	0.42
2:G:441:ASP:OD2	3:H:484:ASN:ND2	2.44	0.42
3:H:269:GLN:OE1	3:H:271:ARG:NH2	2.44	0.42
1:A:200:PHE:O	1:A:204:LEU:HD23	2.20	0.42
1:A:555:SER:OG	1:A:557:SER:OG	2.24	0.42
1:A:855:VAL:O	1:A:858:MET:HG3	2.18	0.42
1:A:991:LEU:O	1:A:994:TRP:HB3	2.20	0.42
1:A:1407:LYS:HA	1:A:1407:LYS:HD2	1.81	0.42
1:A:1593:VAL:HA	1:A:1596:VAL:HG22	2.01	0.42
1:A:1639:LEU:HD23	1:A:1640:GLU:OE1	2.20	0.42
1:A:1710:LEU:O	1:A:1713:VAL:HG22	2.20	0.42
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ3	1.81	0.42
1:A:2448:PRO:HG3	1:A:2484:TYR:OH	2.20	0.42
1:A:2974:GLU:OE2	1:A:2978:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3069:MET:SD	1:A:3070:HIS:N	2.92	0.42
1:A:3538:GLU:HG3	1:A:3798:SER:HB3	2.01	0.42
1:A:3562:LEU:HD23	1:A:3562:LEU:H	1.85	0.42
1:A:3817:LEU:O	1:A:3822:GLN:HB3	2.19	0.42
2:B:67:ILE:HG13	2:B:68:GLN:N	2.34	0.42
3:C:490:LEU:O	3:C:494:LEU:HG	2.19	0.42
3:C:599:ARG:HE	3:C:602:VAL:HG21	1.85	0.42
1:F:22:ALA:HB3	1:F:34:LEU:CD2	2.49	0.42
1:F:70:ARG:HH21	1:F:82:ARG:CG	2.32	0.42
1:F:153:PHE:CD1	1:F:178:LEU:HD11	2.51	0.42
1:F:209:THR:HG23	2:G:332:GLU:OE2	2.19	0.42
1:F:998:ASN:HA	1:F:1001:PHE:HB2	2.02	0.42
1:F:1000:LYS:HE2	1:F:1004:GLN:HB3	2.02	0.42
1:F:1006:THR:HA	1:F:1009:LEU:HD12	2.00	0.42
1:F:1202:ARG:NH1	1:F:1210:ASP:OD2	2.53	0.42
1:F:1327:GLY:O	1:F:1330:TYR:HB3	2.19	0.42
1:F:1718:ILE:HG13	1:F:1719:VAL:N	2.35	0.42
1:F:2231:PHE:HA	1:F:2234:ASN:HD21	1.84	0.42
1:F:2485:ARG:HA	1:F:2499:PHE:CE1	2.54	0.42
1:F:2928:LYS:HA	1:F:2928:LYS:HD3	1.82	0.42
1:F:2992:ASP:O	1:F:2996:LEU:HG	2.19	0.42
1:F:3263:HIS:HA	1:F:3266:SER:HB3	2.01	0.42
1:F:3572:ILE:HG12	1:F:3796:MET:HG3	2.00	0.42
1:F:3630:ARG:NH2	1:F:3633:ILE:HG13	2.35	0.42
1:F:3763:ARG:O	1:F:3767:LEU:HG	2.18	0.42
2:G:288:LEU:CB	3:H:322:PRO:HB3	2.49	0.42
3:H:106:ASP:HB3	3:H:109:ASP:CG	2.39	0.42
3:H:328:GLU:O	3:H:332:LYS:HG2	2.19	0.42
1:A:730:LEU:O	1:A:734:LEU:HG	2.20	0.42
1:A:746:ARG:HA	1:A:749:VAL:HG23	2.01	0.42
1:A:993:HIS:CD2	1:A:993:HIS:N	2.86	0.42
1:A:1071:ASN:OD1	1:A:1072:ALA:N	2.52	0.42
1:A:2102:LYS:NZ	1:A:2106:ARG:HD2	2.35	0.42
1:A:2225:HIS:HB2	1:A:2231:PHE:HB2	2.01	0.42
1:A:2472:GLN:O	1:A:2475:ASN:HB2	2.19	0.42
1:A:2862:SER:HA	1:A:2868:LEU:HD22	2.01	0.42
1:A:2896:ALA:O	1:A:2900:LEU:HB3	2.19	0.42
1:A:2970:LYS:HA	1:A:2973:ASP:OD2	2.19	0.42
1:A:3053:LEU:HG	1:A:3092:LEU:HD11	2.01	0.42
1:A:3471:ILE:HA	1:A:3474:ARG:CG	2.47	0.42
1:A:3699:LEU:HB3	1:A:3719:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4103:GLN:O	1:A:4106:CYS:HB2	2.19	0.42
2:B:79:ASP:OD1	2:B:110:ASN:HB2	2.19	0.42
2:B:91:GLU:H	2:B:135:MET:HG2	1.84	0.42
2:B:214:SER:HB3	2:B:218:ARG:CG	2.49	0.42
2:B:297:LYS:CB	3:C:298:ASN:HD21	2.29	0.42
3:C:30:PRO:HB3	3:C:227:PHE:CD2	2.55	0.42
1:F:79:ARG:HA	1:F:79:ARG:HD3	1.70	0.42
1:F:159:GLU:HA	1:F:162:LEU:HD23	2.02	0.42
1:F:1090:ARG:HB3	1:F:1137:ILE:HG21	2.02	0.42
1:F:1097:GLU:O	1:F:1151:ARG:NH2	2.53	0.42
1:F:1189:GLU:O	1:F:1192:TYR:HB3	2.20	0.42
1:F:1388:ASP:HA	1:F:1391:VAL:HG12	2.01	0.42
1:F:1410:PRO:HG2	1:F:1411:TYR:CE2	2.55	0.42
1:F:1557:GLU:HB3	1:F:1592:MET:SD	2.59	0.42
1:F:1662:ASN:OD1	1:F:1702:LEU:HD23	2.19	0.42
1:F:1781:SER:O	1:F:1784:ARG:NH1	2.52	0.42
1:F:1913:LYS:HA	1:F:1916:ILE:CD1	2.50	0.42
1:F:2224:PHE:HA	1:F:2231:PHE:CE1	2.54	0.42
1:F:2363:CYS:O	1:F:2367:VAL:HG12	2.19	0.42
1:F:2389:PHE:HB2	1:F:2394:LYS:CD	2.44	0.42
1:F:2571:ASP:O	1:F:2787:HIS:HD2	2.02	0.42
1:F:3001:CYS:SG	1:F:3002:TYR:N	2.92	0.42
1:F:3148:GLN:OE1	1:F:3148:GLN:N	2.53	0.42
1:F:3167:ARG:HH11	1:F:3168:TYR:N	2.18	0.42
1:F:3360:LEU:HG	1:F:3373:VAL:HG21	2.00	0.42
1:F:3530:VAL:O	1:F:3534:ILE:N	2.47	0.42
3:H:381:ILE:HG23	3:H:410:PRO:HB3	2.02	0.42
1:A:139:ARG:O	1:A:139:ARG:NE	2.53	0.42
1:A:212:VAL:HG22	3:C:551:GLN:O	2.19	0.42
1:A:226:GLY:O	1:A:229:SER:OG	2.27	0.42
1:A:569:VAL:HA	1:A:572:VAL:HB	2.02	0.42
1:A:704:PHE:HA	1:A:707:PHE:CD2	2.53	0.42
1:A:1011:GLU:HA	1:A:1014:LEU:HB2	2.02	0.42
1:A:1094:SER:O	1:A:1097:GLU:N	2.41	0.42
1:A:1344:PHE:O	1:A:1348:LEU:HG	2.20	0.42
1:A:1358:LEU:HG	1:A:1360:LYS:HD2	2.00	0.42
1:A:1406:LEU:O	1:A:1406:LEU:HD23	2.20	0.42
1:A:1533:LEU:HD12	1:A:1592:MET:HB3	2.01	0.42
1:A:1708:GLU:HA	1:A:1711:ARG:HH11	1.84	0.42
1:A:1723:PRO:HG2	1:A:1729:PHE:CE2	2.55	0.42
1:A:2097:LEU:O	1:A:2100:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2104:MET:HE3	1:A:2104:MET:HB3	1.90	0.42
1:A:2450:GLU:OE1	1:A:2450:GLU:N	2.48	0.42
1:A:2923:TRP:CE3	1:A:2942:ILE:HD11	2.55	0.42
1:A:2939:LEU:C	1:A:2942:ILE:HG22	2.39	0.42
1:A:3096:VAL:HG13	1:A:3100:LYS:NZ	2.35	0.42
1:A:3383:GLN:O	1:A:3386:SER:OG	2.29	0.42
1:A:3542:PHE:CE2	1:A:3552:LYS:HD2	2.55	0.42
1:A:3571:PHE:CD2	1:A:3699:LEU:HD22	2.55	0.42
1:A:4018:GLN:O	1:A:4021:LEU:HG	2.19	0.42
1:A:4107:LEU:HA	1:A:4107:LEU:HD23	1.83	0.42
2:B:150:CYS:O	2:B:153:LEU:HB2	2.20	0.42
2:B:384:ALA:HB2	3:C:450:GLN:HG3	2.02	0.42
2:B:404:ARG:HH11	2:B:405:ASN:HD21	1.67	0.42
3:C:7:LYS:HB3	3:C:128:GLU:HB2	2.02	0.42
3:C:306:LEU:HG	3:C:308:GLU:HG3	2.02	0.42
1:F:186:PRO:O	1:F:188:GLU:N	2.53	0.42
1:F:712:LYS:HD3	1:F:712:LYS:N	2.35	0.42
1:F:1452:VAL:HG12	1:F:1456:LYS:HZ1	1.84	0.42
1:F:1646:LEU:HA	1:F:1649:LEU:HD12	2.02	0.42
1:F:1938:ARG:HA	1:F:1941:HIS:HD1	1.85	0.42
1:F:2125:TRP:CD1	1:F:2126:MET:N	2.88	0.42
1:F:2180:GLU:HB3	1:F:2225:HIS:CE1	2.55	0.42
1:F:3029:LYS:NZ	1:F:3073:LEU:HD21	2.35	0.42
1:F:3095:ASP:HB3	1:F:3098:ARG:NH1	2.27	0.42
1:F:3176:MET:CE	1:F:3245:SER:HB2	2.50	0.42
1:F:3288:SER:H	1:F:3289:ARG:NH2	2.17	0.42
1:F:3449:LYS:HA	1:F:3452:LYS:HG2	2.01	0.42
2:G:34:GLY:O	2:G:35:ARG:NH2	2.53	0.42
2:G:121:GLN:HB2	2:G:126:GLN:HE22	1.83	0.42
2:G:327:ILE:HG21	3:H:494:LEU:HD12	2.02	0.42
3:H:8:ALA:HB3	3:H:240:ILE:HG23	2.01	0.42
3:H:9:ALA:HA	3:H:53:GLU:HG2	2.00	0.42
3:H:18:PHE:HD1	3:H:102:SER:HA	1.85	0.42
3:H:496:HIS:O	3:H:500:HIS:HB2	2.20	0.42
3:H:624:LEU:HA	3:H:624:LEU:HD23	1.78	0.42
7:E:30:DA:H2''	7:E:31:DA:C8	2.55	0.42
1:A:114:VAL:HG13	1:A:130:LEU:HD11	2.01	0.42
1:A:346:TYR:HA	1:A:366:TYR:OH	2.20	0.42
1:A:438:LEU:C	1:A:442:GLN:HE22	2.22	0.42
1:A:459:ARG:NH1	1:A:543:SER:OG	2.30	0.42
1:A:667:TYR:HD1	1:A:670:LEU:HD12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:LEU:HD12	1:A:1154:PRO:HD2	2.00	0.42
1:A:1591:LYS:HE2	1:A:1592:MET:SD	2.60	0.42
1:A:1846:ASP:O	1:A:1850:VAL:HG23	2.20	0.42
1:A:2260:PHE:O	1:A:2306:ASN:ND2	2.53	0.42
1:A:2575:PRO:HA	1:A:2785:ILE:O	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:CD1	2.32	0.42
1:A:3290:SER:O	1:A:3294:SER:N	2.51	0.42
1:A:3633:ILE:HA	1:A:3636:PHE:HB2	2.02	0.42
1:A:3863:ASN:O	1:A:3867:THR:N	2.36	0.42
1:A:3961:PHE:HE1	1:A:3963:LEU:HD22	1.85	0.42
1:A:4013:TRP:CZ2	1:A:4036:LYS:HE2	2.53	0.42
2:B:39:ILE:HD12	2:B:84:ALA:HB3	2.02	0.42
3:C:623:PHE:CZ	3:C:634:LYS:HB2	2.55	0.42
1:F:79:ARG:O	1:F:82:ARG:HB2	2.20	0.42
1:F:130:LEU:HD23	1:F:130:LEU:HA	1.81	0.42
1:F:313:LEU:HD21	1:F:357:LYS:HZ3	1.85	0.42
1:F:479:ILE:O	1:F:483:VAL:HG22	2.20	0.42
1:F:898:PHE:HB3	1:F:900:GLU:H	1.84	0.42
1:F:1168:LEU:HA	1:F:1171:TRP:HB3	2.00	0.42
1:F:1445:ARG:HA	1:F:1448:LEU:HB3	2.01	0.42
1:F:1920:TYR:O	1:F:1924:THR:OG1	2.26	0.42
1:F:2383:PHE:HB3	1:F:2418:LYS:NZ	2.35	0.42
1:F:2547:SER:O	1:F:2549:LYS:N	2.48	0.42
1:F:2554:PHE:HA	1:F:2557:LEU:HD13	2.01	0.42
1:F:3352:GLU:HB2	1:F:3355:LYS:HG2	2.02	0.42
1:F:3668:LEU:HA	1:F:3671:ASN:HD21	1.85	0.42
2:G:183:ALA:HB1	2:G:216:PHE:CZ	2.54	0.42
2:G:343:PRO:HA	2:G:401:THR:OG1	2.19	0.42
2:G:420:LEU:HD23	2:G:421:ASP:O	2.20	0.42
3:H:56:LEU:O	3:H:80:HIS:N	2.52	0.42
5:I:35:DT:C4	5:I:36:DA:C6	3.07	0.42
6:D:28:DA:OP2	6:D:28:DA:H8	2.02	0.42
6:D:28:DA:H2''	6:D:29:DG:C8	2.55	0.42
6:D:37:DG:C5	6:D:38:DG:C6	3.08	0.42
1:A:374:LYS:NZ	1:A:424:LEU:HA	2.35	0.42
1:A:635:PRO:HG3	1:A:672:ILE:HB	2.01	0.42
1:A:758:LEU:O	1:A:762:TYR:N	2.53	0.42
1:A:1100:VAL:O	1:A:1104:LEU:HD23	2.20	0.42
1:A:1593:VAL:O	1:A:1597:LEU:HG	2.20	0.42
1:A:1671:VAL:O	1:A:1675:TYR:N	2.39	0.42
1:A:2094:MET:HE2	1:A:2145:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2384:PHE:HE1	2:B:154:PHE:HB2	1.84	0.42
1:A:2512:ASP:OD2	1:A:2515:PRO:HA	2.20	0.42
1:A:2908:LYS:HZ1	1:A:2916:LEU:HB2	1.85	0.42
1:A:3700:GLU:HG2	1:A:3717:VAL:C	2.40	0.42
1:A:3920:ILE:HD12	1:A:3920:ILE:H	1.85	0.42
2:B:49:PHE:HB2	2:B:137:HIS:NE2	2.35	0.42
2:B:420:LEU:HB2	2:B:426:GLN:OE1	2.20	0.42
2:B:463:LYS:NZ	3:C:386:ASP:OD1	2.53	0.42
3:C:234:LEU:HA	3:C:237:PHE:CD2	2.55	0.42
3:C:645:GLU:HA	3:C:648:LYS:HG2	2.02	0.42
1:F:980:THR:O	1:F:983:LEU:HG	2.20	0.42
1:F:1102:GLU:OE2	1:F:1151:ARG:HB3	2.19	0.42
1:F:1675:TYR:O	1:F:1679:LEU:HG	2.20	0.42
1:F:2185:MET:O	1:F:2188:GLU:HG2	2.20	0.42
1:F:2254:ARG:HD2	1:F:2294:ILE:HG23	2.02	0.42
1:F:2296:SER:O	1:F:2300:PHE:HE2	2.03	0.42
1:F:2559:THR:O	1:F:2563:LEU:HG	2.19	0.42
1:F:3180:ASP:O	1:F:3184:THR:HG23	2.20	0.42
1:F:3716:HIS:H	1:F:3718:ARG:HH12	1.66	0.42
2:G:193:LEU:HA	2:G:196:THR:HB	2.00	0.42
2:G:360:HIS:CD2	2:G:438:PRO:HD3	2.55	0.42
3:H:264:TYR:OH	3:H:368:ARG:NH1	2.48	0.42
6:D:29:DG:H2"	6:D:30:DT:C6	2.55	0.42
1:A:385:TYR:CD2	1:A:424:LEU:HG	2.55	0.41
1:A:524:TYR:CD1	1:A:629:PHE:HD1	2.37	0.41
1:A:699:GLU:CD	1:A:700:LYS:HZ3	2.23	0.41
1:A:997:ASN:HD22	1:A:999:LYS:HE2	1.84	0.41
1:A:1209:LYS:HA	1:A:1212:LEU:HG	2.01	0.41
1:A:2151:ILE:HD13	1:A:2188:GLU:HB3	2.02	0.41
1:A:2304:VAL:O	1:A:2307:MET:HG3	2.20	0.41
1:A:2359:LYS:HD3	1:A:2359:LYS:N	2.34	0.41
1:A:2393:LEU:HB2	1:A:2394:LYS:NZ	2.35	0.41
1:A:2995:GLU:O	1:A:2999:LEU:HG	2.20	0.41
1:A:3086:LEU:O	1:A:3090:TYR:HD1	2.03	0.41
1:A:3161:LEU:O	1:A:3165:THR:OG1	2.29	0.41
1:A:3443:PRO:HG3	1:A:3475:TYR:CG	2.55	0.41
1:A:3737:ARG:HA	1:A:3751:LEU:HD13	2.02	0.41
1:A:3745:GLU:O	1:A:3745:GLU:HG3	2.20	0.41
1:A:6006:UNK:O	1:A:6010:UNK:N	2.53	0.41
2:B:71:TYR:CZ	2:B:75:ILE:HD11	2.55	0.41
2:B:339:ARG:HD2	2:B:340:PHE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:348:SER:O	3:C:351:VAL:HG22	2.20	0.41
1:F:131:LEU:HD12	1:F:132:ILE:N	2.34	0.41
1:F:452:LYS:O	1:F:455:LEU:HB2	2.20	0.41
1:F:484:HIS:HD2	1:F:571:SER:CA	2.32	0.41
1:F:651:TYR:O	1:F:654:ILE:HG22	2.19	0.41
1:F:1477:HIS:HB3	1:F:1481:THR:HG23	2.02	0.41
1:F:1769:GLU:O	1:F:1772:HIS:ND1	2.49	0.41
1:F:1900:PHE:O	1:F:1904:CYS:N	2.53	0.41
1:F:2195:SER:O	1:F:5009:UNK:N	2.53	0.41
1:F:2224:PHE:HA	1:F:2231:PHE:HE1	1.84	0.41
1:F:2228:ARG:H	1:F:2231:PHE:CB	2.32	0.41
1:F:3920:ILE:HG21	1:F:3942:PHE:CD1	2.55	0.41
1:F:3962:ARG:HG3	1:F:3967:PHE:HE2	1.83	0.41
1:F:3980:MET:HA	1:F:3983:ILE:CG2	2.45	0.41
2:G:376:ILE:HB	3:H:540:ILE:CG2	2.50	0.41
2:G:534:TYR:H	3:H:260:ARG:NH2	2.18	0.41
3:H:56:LEU:HD22	3:H:94:ILE:HG12	2.02	0.41
3:H:283:THR:HG23	3:H:285:LYS:H	1.85	0.41
3:H:357:MET:O	3:H:422:VAL:HG13	2.20	0.41
1:A:138:PHE:HZ	1:A:183:GLU:HB3	1.85	0.41
1:A:243:GLN:CD	1:A:246:ARG:HH21	2.23	0.41
1:A:379:LYS:HG3	1:A:380:ASP:OD1	2.19	0.41
1:A:485:GLN:HE21	1:A:6014:UNK:CB	2.34	0.41
1:A:521:VAL:N	1:A:522:PRO:HD2	2.35	0.41
1:A:899:ARG:CZ	1:A:2568:MET:HB3	2.50	0.41
1:A:909:VAL:O	1:A:912:PRO:HD2	2.20	0.41
1:A:1143:VAL:HA	1:A:1146:ASN:ND2	2.35	0.41
1:A:1511:ALA:HA	1:A:1514:LEU:HD12	2.01	0.41
1:A:1676:ILE:O	1:A:1680:ALA:N	2.49	0.41
1:A:1870:LYS:O	1:A:1873:TYR:HB2	2.19	0.41
1:A:1891:ALA:HB1	1:A:1894:SER:HA	2.02	0.41
1:A:2129:LEU:HA	1:A:2132:LYS:NZ	2.36	0.41
1:A:2203:THR:HB	1:A:2248:CYS:SG	2.60	0.41
1:A:2238:ILE:HD12	1:A:2238:ILE:H	1.85	0.41
1:A:2443:MET:HE2	1:A:2479:TRP:HE3	1.77	0.41
1:A:2499:PHE:O	1:A:2503:LYS:HG3	2.20	0.41
1:A:2546:TYR:HA	1:A:2554:PHE:CZ	2.55	0.41
1:A:2918:PRO:HB2	1:A:2922:ARG:NH2	2.28	0.41
1:A:2970:LYS:HA	1:A:2970:LYS:HD3	1.90	0.41
1:A:3008:TRP:CZ2	1:A:3050:LYS:HD2	2.55	0.41
1:A:3190:LEU:HD21	1:A:3234:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3315:TYR:O	1:A:3320:ILE:N	2.52	0.41
1:A:3604:LYS:HA	1:A:3604:LYS:HD3	1.85	0.41
1:A:3750:PHE:CE2	1:A:3804:GLU:HB3	2.54	0.41
1:A:3967:PHE:O	1:A:3970:LEU:HB2	2.20	0.41
1:A:4055:ASN:CB	1:A:4095:GLU:HA	2.50	0.41
1:A:4064:LEU:O	1:A:4068:HIS:N	2.52	0.41
2:B:114:LYS:O	2:B:117:LEU:HB2	2.21	0.41
2:B:351:LYS:N	2:B:395:ALA:O	2.50	0.41
2:B:400:TYR:CZ	2:B:402:PRO:HA	2.54	0.41
3:C:624:LEU:HD12	3:C:632:PHE:HB2	2.01	0.41
1:F:152:LEU:HD13	1:F:155:LYS:CE	2.50	0.41
1:F:386:VAL:O	1:F:389:ILE:HG22	2.20	0.41
1:F:441:MET:HA	1:F:444:ASP:OD2	2.20	0.41
1:F:1029:CYS:SG	1:F:1030:GLY:N	2.94	0.41
1:F:1583:MET:O	1:F:1586:SER:OG	2.29	0.41
1:F:1722:PHE:HE2	1:F:1742:CYS:SG	2.43	0.41
1:F:1747:LEU:O	1:F:1750:LEU:N	2.52	0.41
1:F:2145:PHE:O	1:F:2149:LEU:HG	2.20	0.41
1:F:2224:PHE:HD1	1:F:2231:PHE:HE1	1.65	0.41
1:F:2507:ILE:HA	1:F:2510:LEU:HD23	2.02	0.41
1:F:3320:ILE:O	1:F:3323:PHE:HB3	2.20	0.41
1:F:3521:ILE:O	1:F:3525:TYR:N	2.37	0.41
1:F:3734:ARG:O	1:F:3736:LYS:NZ	2.52	0.41
1:F:3813:LYS:CD	1:F:3925:LEU:HD22	2.48	0.41
1:F:3816:LEU:HD11	1:F:3882:LEU:HD11	2.01	0.41
1:F:3835:PRO:HA	1:F:3839:TYR:CD2	2.55	0.41
1:F:4089:ILE:HD12	1:F:4092:GLN:HB2	2.01	0.41
2:G:46:LYS:HA	2:G:137:HIS:NE2	2.35	0.41
2:G:122:PHE:C	2:G:127:GLY:HA3	2.41	0.41
2:G:147:LEU:C	2:G:189:LYS:HE2	2.41	0.41
2:G:259:LEU:O	2:G:271:VAL:O	2.38	0.41
3:H:488:GLN:HE22	3:H:489:ARG:HD2	1.85	0.41
3:H:496:HIS:NE2	3:H:503:GLU:OE1	2.53	0.41
5:I:37:DT:H2'	5:I:38:DT:C5	2.55	0.41
1:A:255:ALA:O	1:A:258:PRO:HD2	2.20	0.41
1:A:559:SER:O	1:A:561:ASN:N	2.53	0.41
1:A:638:GLN:H	1:A:638:GLN:CD	2.20	0.41
1:A:871:LEU:HD22	1:A:3122:HIS:CE1	2.54	0.41
1:A:924:ARG:O	1:A:928:VAL:HG22	2.20	0.41
1:A:1038:LYS:HG3	1:A:1039:TRP:CE3	2.56	0.41
1:A:1202:ARG:HG3	1:A:1207:TRP:HD1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1288:SER:HB2	1:A:1290:LEU:HD13	2.02	0.41
1:A:1324:PRO:HA	1:A:1328:GLU:OE2	2.20	0.41
1:A:1506:SER:OG	1:A:1507:CYS:N	2.53	0.41
1:A:1910:GLU:HG2	3:H:732:ILE:HG23	2.01	0.41
1:A:2253:TYR:H	1:A:2256:ILE:HD13	1.85	0.41
1:A:2539:LEU:HD23	1:A:2543:ASN:ND2	2.34	0.41
1:A:2805:ALA:O	1:A:2808:LEU:HB2	2.19	0.41
1:A:2832:ILE:HA	1:A:2835:LYS:HE2	2.02	0.41
1:A:2936:TYR:HD1	1:A:2940:ARG:HH12	1.69	0.41
1:A:3839:TYR:HA	1:A:3842:TRP:HB3	2.02	0.41
2:B:75:ILE:HG23	2:B:111:PRO:HB2	2.01	0.41
3:C:185:LEU:HB3	3:C:514:ASN:HD22	1.85	0.41
3:C:273:LYS:NZ	3:C:274:LYS:HE2	2.36	0.41
1:F:477:ASN:O	1:F:481:THR:HG23	2.21	0.41
1:F:571:SER:O	1:F:575:ILE:HG13	2.20	0.41
1:F:1212:LEU:CD1	1:F:1213:LYS:HG3	2.50	0.41
1:F:1601:LEU:O	1:F:1604:SER:OG	2.37	0.41
1:F:2388:LYS:H	1:F:2394:LYS:NZ	2.18	0.41
1:F:2584:CYS:SG	1:F:2780:LEU:HB2	2.60	0.41
1:F:3130:GLN:HA	1:F:3133:GLN:HE22	1.86	0.41
1:F:3232:ARG:O	1:F:3235:LYS:HG3	2.20	0.41
1:F:3239:LYS:HE2	1:F:3262:LEU:HD11	2.03	0.41
1:F:3341:LEU:HD22	1:F:3374:ILE:HD13	2.02	0.41
1:F:3683:CYS:O	1:F:3685:PRO:HD3	2.20	0.41
1:F:3733:ARG:HB2	1:F:3753:LYS:CE	2.50	0.41
2:G:461:LYS:NZ	2:G:525:PHE:HB3	2.35	0.41
2:G:482:VAL:HG12	2:G:486:HIS:CE1	2.53	0.41
3:H:185:LEU:HD22	3:H:510:GLN:OE1	2.20	0.41
3:H:656:ASN:O	3:H:660:LYS:HG2	2.19	0.41
4:J:29:DG:C5	4:J:30:DT:C4	3.09	0.41
7:E:28:DT:C4	7:E:29:DA:N6	2.88	0.41
1:A:332:GLU:HA	1:A:335:LYS:HG3	2.02	0.41
1:A:411:PRO:O	1:A:414:LEU:HD23	2.21	0.41
1:A:656:GLN:O	1:A:660:LEU:N	2.43	0.41
1:A:1601:LEU:HB3	1:A:1651:LYS:HG2	2.01	0.41
1:A:1878:ASP:OD1	1:A:1879:VAL:HG23	2.19	0.41
1:A:3033:GLU:CG	1:A:3034:PRO:HD3	2.48	0.41
1:A:3390:GLN:H	1:A:3390:GLN:HG3	1.73	0.41
1:A:3496:ILE:HG21	1:A:3707:GLY:N	2.30	0.41
1:A:4017:GLU:OE2	1:A:4036:LYS:NZ	2.53	0.41
2:B:125:GLN:O	2:B:129:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:115:MET:HA	3:C:118:ILE:HG22	2.02	0.41
3:C:314:PHE:HB2	3:C:323:PHE:CE2	2.56	0.41
3:C:599:ARG:NH2	3:C:645:GLU:HG3	2.35	0.41
3:C:610:GLU:HA	3:C:654:ARG:HH12	1.84	0.41
1:F:722:LYS:CA	1:F:726:LEU:HD23	2.44	0.41
1:F:1005:ASP:O	1:F:1009:LEU:HG	2.20	0.41
1:F:1145:LEU:HB3	1:F:1165:LEU:HD21	2.02	0.41
1:F:1214:GLU:HG3	1:F:1215:GLU:H	1.85	0.41
1:F:1374:GLN:CG	1:F:1422:LYS:HE2	2.51	0.41
1:F:1419:LEU:HD11	1:F:1458:LEU:HD11	2.02	0.41
1:F:1760:GLU:O	1:F:1763:THR:N	2.54	0.41
1:F:2142:ILE:H	1:F:2142:ILE:HD12	1.85	0.41
1:F:2201:THR:HA	1:F:2245:TRP:NE1	2.35	0.41
1:F:2916:LEU:HD13	1:F:2920:VAL:HG11	2.02	0.41
1:F:3064:PHE:HA	1:F:3067:LYS:HD2	2.02	0.41
1:F:3107:ILE:HD11	1:F:3135:LEU:HD21	2.01	0.41
1:F:3737:ARG:HD2	1:F:3738:ILE:N	2.34	0.41
1:F:3758:LEU:CB	1:F:3762:GLN:HE22	2.32	0.41
1:F:4003:ASP:O	1:F:4007:LYS:HG2	2.21	0.41
2:G:125:GLN:HA	2:G:128:GLN:HG3	2.03	0.41
2:G:176:HIS:NE2	2:G:180:SER:HA	2.34	0.41
3:H:37:VAL:HB	3:H:41:PHE:CE1	2.54	0.41
3:H:198:THR:O	3:H:202:LYS:N	2.49	0.41
3:H:205:LEU:HA	3:H:208:VAL:HG22	2.03	0.41
3:H:640:ARG:HH21	3:H:682:GLY:HA2	1.85	0.41
6:D:22:DG:N2	6:D:23:DT:C2	2.88	0.41
7:E:33:DA:H5'	7:E:33:DA:C8	2.54	0.41
1:A:212:VAL:C	1:A:213:ARG:HD3	2.41	0.41
1:A:297:LEU:O	1:A:301:CYS:N	2.53	0.41
1:A:635:PRO:HG3	1:A:672:ILE:HD12	2.01	0.41
1:A:726:LEU:O	1:A:730:LEU:HG	2.20	0.41
1:A:855:VAL:O	1:A:859:LEU:HG	2.20	0.41
1:A:857:GLN:CD	1:A:857:GLN:N	2.72	0.41
1:A:1147:LYS:HD3	1:A:1149:LYS:HD3	2.01	0.41
1:A:1223:THR:C	1:A:1225:GLU:H	2.22	0.41
1:A:1973:LYS:HZ1	1:A:1978:PHE:HB2	1.86	0.41
1:A:1977:ILE:HG21	1:A:2090:ARG:HH21	1.86	0.41
1:A:2195:SER:HB2	1:A:2196:TRP:CE3	2.55	0.41
1:A:2257:PHE:HA	1:A:2260:PHE:CE2	2.56	0.41
1:A:2574:ASN:HB2	1:A:2787:HIS:CD2	2.51	0.41
1:A:2813:PHE:O	1:A:2817:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2897:LEU:HD22	1:A:2923:TRP:CE2	2.55	0.41
1:A:3290:SER:OG	1:A:3293:CYS:HB3	2.21	0.41
1:A:3646:LYS:HD3	1:A:3653:ARG:HB2	2.02	0.41
1:A:3952:PHE:HE1	1:A:4036:LYS:HZ1	1.68	0.41
2:B:298:THR:HA	3:C:295:TYR:CE1	2.55	0.41
2:B:410:PHE:HZ	3:C:516:LEU:HD22	1.86	0.41
3:C:142:PHE:CE1	3:C:200:GLN:HA	2.56	0.41
3:C:668:ILE:HG13	3:C:669:LYS:N	2.36	0.41
1:F:173:LYS:HD3	1:F:173:LYS:N	2.35	0.41
1:F:176:GLU:OE2	1:F:226:GLY:HA3	2.20	0.41
1:F:275:PHE:HE2	1:F:319:PHE:HB2	1.85	0.41
1:F:719:LYS:HE3	1:F:719:LYS:HB3	1.87	0.41
1:F:1297:PHE:HA	1:F:1300:SER:HG	1.85	0.41
1:F:1395:LEU:HD23	1:F:1396:PRO:HD3	2.02	0.41
1:F:1538:LEU:H	1:F:1553:PHE:H	1.67	0.41
1:F:1854:ARG:HH12	3:H:725:VAL:CG1	2.31	0.41
1:F:2307:MET:SD	1:F:2319:ALA:HB3	2.61	0.41
1:F:2791:ILE:HA	1:F:2794:LEU:HD12	2.02	0.41
1:F:2797:VAL:HG13	1:F:2804:ILE:HG21	2.02	0.41
1:F:2891:ARG:HA	1:F:2894:GLU:OE1	2.20	0.41
1:F:3117:ILE:HG22	1:F:3118:ASP:O	2.21	0.41
1:F:3468:LEU:HA	1:F:3471:ILE:HG22	2.02	0.41
1:F:3772:ASN:HA	1:F:3775:LEU:HD12	2.02	0.41
1:F:4061:CYS:HB2	1:F:4078:VAL:HG13	2.02	0.41
1:F:6006:UNK:O	1:F:6010:UNK:N	2.53	0.41
2:G:54:GLU:HB3	2:G:56:GLU:CD	2.41	0.41
2:G:90:THR:HA	2:G:135:MET:HE3	2.03	0.41
2:G:126:GLN:O	2:G:130:ARG:NH1	2.54	0.41
2:G:190:ALA:O	2:G:193:LEU:HG	2.20	0.41
3:H:57:VAL:HG12	3:H:79:VAL:HG22	2.03	0.41
3:H:443:LYS:H	3:H:443:LYS:HG2	1.69	0.41
4:J:21:DA:H1'	4:J:22:DG:H8	1.85	0.41
1:A:70:ARG:NH1	1:A:82:ARG:NH2	2.68	0.41
1:A:146:GLU:HB2	1:A:183:GLU:HA	2.01	0.41
1:A:421:LEU:HD12	1:A:424:LEU:HB2	2.02	0.41
1:A:646:VAL:HG23	1:A:647:TYR:N	2.35	0.41
1:A:835:LYS:HD2	1:A:835:LYS:O	2.20	0.41
1:A:1069:HIS:CG	1:A:1074:LYS:HE2	2.55	0.41
1:A:1126:GLN:OE1	1:A:1126:GLN:N	2.46	0.41
1:A:1244:LEU:HD21	1:A:1312:CYS:SG	2.60	0.41
1:A:1578:ALA:O	1:A:1582:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1978:PHE:CG	1:A:1979:GLU:N	2.89	0.41
1:A:2892:LEU:HD23	1:A:2892:LEU:HA	1.92	0.41
1:A:2908:LYS:HE3	1:A:2915:ARG:NH1	2.36	0.41
1:A:3090:TYR:CE1	1:A:3102:TYR:HE2	2.38	0.41
1:A:3114:TYR:HA	1:A:3117:ILE:HG12	2.01	0.41
1:A:3328:ILE:HD11	1:A:3412:ALA:HB2	2.03	0.41
1:A:3421:ASP:OD2	1:A:3467:ARG:HG2	2.20	0.41
1:A:3450:MET:HE1	1:A:3468:LEU:HD22	2.01	0.41
1:A:3533:PHE:O	1:A:3537:SER:OG	2.34	0.41
1:A:3533:PHE:HA	1:A:3536:SER:HB3	2.03	0.41
2:B:143:LEU:HA	2:B:146:VAL:HB	2.03	0.41
2:B:186:ALA:HA	2:B:189:LYS:HZ1	1.86	0.41
2:B:238:LYS:O	2:B:242:LEU:N	2.44	0.41
2:B:403:ARG:HH11	2:B:404:ARG:HB3	1.84	0.41
3:C:493:CYS:HB3	3:C:506:PRO:HG3	2.02	0.41
1:F:262:LEU:HD13	4:J:20:DT:OP1	2.20	0.41
1:F:859:LEU:O	1:F:862:LEU:HB3	2.20	0.41
1:F:1297:PHE:HA	1:F:1301:ILE:HG12	2.02	0.41
1:F:1529:VAL:HG11	1:F:1581:GLU:OE1	2.20	0.41
1:F:1769:GLU:OE2	1:F:1770:GLN:N	2.50	0.41
1:F:1812:LEU:N	1:F:1815:THR:OG1	2.54	0.41
1:F:2180:GLU:OE2	1:F:2222:HIS:ND1	2.41	0.41
1:F:2421:VAL:HG23	1:F:2457:PRO:HG3	2.03	0.41
1:F:3046:ARG:HG2	1:F:3050:LYS:NZ	2.29	0.41
1:F:3072:GLU:HG2	1:F:3073:LEU:N	2.35	0.41
1:F:3617:LEU:HB3	1:F:3640:PHE:CD1	2.56	0.41
1:F:3629:ARG:O	1:F:3633:ILE:HG23	2.21	0.41
1:F:3842:TRP:HB3	1:F:3858:MET:HG2	2.01	0.41
1:F:3980:MET:O	1:F:3983:ILE:HG22	2.20	0.41
1:F:4079:ALA:HA	1:F:4082:ARG:NH1	2.35	0.41
1:F:4082:ARG:O	1:F:4090:ARG:HG3	2.20	0.41
3:H:134:ILE:O	3:H:164:PHE:HD2	2.02	0.41
3:H:295:TYR:H	3:H:307:LYS:HE3	1.86	0.41
3:H:601:LEU:HA	3:H:604:GLN:HG2	2.02	0.41
4:J:29:DG:C2	4:J:30:DT:C2	3.09	0.41
1:A:30:ALA:HA	1:A:33:GLN:NE2	2.35	0.41
1:A:232:CYS:HB2	1:A:278:HIS:CD2	2.56	0.41
1:A:295:GLU:HG2	1:A:296:VAL:N	2.36	0.41
1:A:364:ARG:HA	1:A:416:SER:OG	2.20	0.41
1:A:429:GLU:HA	1:A:432:THR:HG23	2.01	0.41
1:A:649:PHE:N	1:A:649:PHE:CD1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:LEU:HD21	1:A:855:VAL:HG11	2.01	0.41
1:A:893:SER:HB3	1:A:905:ILE:O	2.20	0.41
1:A:894:PHE:HB3	1:A:905:ILE:HD11	2.03	0.41
1:A:1033:ILE:O	1:A:1037:LEU:N	2.35	0.41
1:A:1086:TYR:CD2	1:A:1133:HIS:CE1	3.09	0.41
1:A:1102:GLU:OE1	1:A:1102:GLU:N	2.34	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NE	2.34	0.41
1:A:1685:ASP:OD2	1:A:1687:HIS:NE2	2.53	0.41
1:A:1971:PRO:HA	1:A:1974:ASN:OD1	2.21	0.41
1:A:2152:ASN:OD1	1:A:2153:THR:HG23	2.20	0.41
1:A:2175:GLU:HG3	1:A:2176:ASN:N	2.35	0.41
1:A:2190:VAL:HG21	1:A:2241:LEU:HD11	2.02	0.41
1:A:2510:LEU:CD1	1:A:2521:ILE:HG21	2.50	0.41
1:A:2554:PHE:HB3	1:A:2854:PHE:HE1	1.85	0.41
1:A:2787:HIS:O	1:A:2790:LEU:HB3	2.20	0.41
1:A:2939:LEU:O	1:A:2943:PHE:N	2.51	0.41
1:A:3134:ALA:O	1:A:3138:ILE:HG13	2.20	0.41
1:A:3389:VAL:HA	1:A:3392:ALA:HB3	2.02	0.41
1:A:3646:LYS:HD3	1:A:3650:LYS:HA	2.03	0.41
1:A:4034:ALA:HA	1:A:4036:LYS:NZ	2.36	0.41
2:B:35:ARG:HG2	2:B:80:ARG:NH1	2.35	0.41
2:B:296:VAL:HG23	3:C:295:TYR:HB3	2.02	0.41
3:C:112:ILE:HG13	3:C:112:ILE:H	1.75	0.41
3:C:496:HIS:NE2	3:C:506:PRO:HA	2.35	0.41
3:C:526:SER:O	3:C:529:PRO:HD2	2.21	0.41
1:F:138:PHE:HE2	1:F:177:LEU:HD13	1.86	0.41
1:F:148:LYS:O	1:F:152:LEU:HD23	2.21	0.41
1:F:229:SER:O	1:F:233:ASN:ND2	2.49	0.41
1:F:259:GLN:OE1	1:F:261:ASP:HB3	2.21	0.41
1:F:671:SER:HB3	1:F:732:PHE:HA	2.02	0.41
1:F:866:ILE:H	1:F:866:ILE:HD12	1.86	0.41
1:F:1465:HIS:HA	1:F:1468:LEU:HB2	2.02	0.41
1:F:2490:GLU:HG2	1:F:2495:SER:HB2	2.03	0.41
1:F:2991:LYS:HG2	1:F:2994:TRP:CZ3	2.55	0.41
1:F:3963:LEU:HA	1:F:3967:PHE:HD2	1.86	0.41
2:G:451:LYS:HG3	2:G:452:ILE:H	1.86	0.41
3:H:98:ILE:HD12	3:H:98:ILE:HA	1.94	0.41
3:H:113:VAL:O	3:H:117:VAL:HG13	2.20	0.41
3:H:202:LYS:O	3:H:205:LEU:HG	2.21	0.41
3:H:509:GLN:OE1	3:H:512:ILE:HG23	2.20	0.41
4:J:27:DT:H2"	4:J:28:DA:N7	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:ILE:HA	1:A:547:ASP:OD2	2.21	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NH1	2.36	0.41
1:A:1900:PHE:HD2	1:A:1904:CYS:HG	1.66	0.41
1:A:2253:TYR:N	1:A:2256:ILE:HD13	2.35	0.41
1:A:2300:PHE:HB2	1:A:2301:GLN:NE2	2.35	0.41
1:A:2503:LYS:O	1:A:2507:ILE:HG12	2.21	0.41
1:A:2796:ALA:C	1:A:2799:GLN:HE22	2.22	0.41
1:A:3141:PHE:O	1:A:3145:ILE:HG22	2.21	0.41
1:A:3231:ILE:O	1:A:3235:LYS:HG3	2.20	0.41
1:A:3264:LYS:HA	1:A:3267:LYS:HD2	2.03	0.41
1:A:3274:VAL:HG11	1:A:3318:LYS:HE3	2.03	0.41
1:A:3368:GLU:OE1	1:A:3368:GLU:N	2.50	0.41
1:A:3695:LEU:O	1:A:3695:LEU:HD23	2.21	0.41
1:A:3727:THR:O	1:A:3737:ARG:N	2.53	0.41
1:A:3846:MET:HE2	1:A:3862:ALA:HA	2.02	0.41
2:B:164:LYS:HD2	2:B:198:ILE:HG13	2.02	0.41
2:B:420:LEU:HA	2:B:426:GLN:HA	2.02	0.41
2:B:438:PRO:O	3:C:480:THR:HA	2.21	0.41
3:C:315:ARG:HA	3:C:320:ILE:HD13	2.02	0.41
3:C:512:ILE:O	3:C:515:MET:HG2	2.21	0.41
1:F:211:ALA:HB1	3:H:548:VAL:HA	2.02	0.41
1:F:583:LEU:HA	1:F:615:ALA:H	1.85	0.41
1:F:677:ALA:O	1:F:680:ILE:HG22	2.20	0.41
1:F:833:HIS:O	1:F:833:HIS:CG	2.73	0.41
1:F:1146:ASN:OD1	1:F:1165:LEU:HD12	2.21	0.41
1:F:1241:LEU:HB3	1:F:1256:TRP:CE3	2.55	0.41
1:F:1709:GLU:H	1:F:1709:GLU:CD	2.24	0.41
1:F:2353:GLN:HA	1:F:2356:MET:CG	2.50	0.41
1:F:2472:GLN:HA	1:F:2475:ASN:OD1	2.21	0.41
1:F:3182:ILE:HG13	1:F:3183:ILE:N	2.36	0.41
1:F:3315:TYR:HD2	1:F:3323:PHE:CA	2.34	0.41
1:F:3548:GLY:H	1:F:3550:LYS:NZ	2.18	0.41
1:F:3564:GLN:O	1:F:3568:ILE:HD11	2.20	0.41
2:G:299:LYS:O	3:H:293:THR:HA	2.19	0.41
2:G:413:LEU:HA	2:G:434:LEU:HA	2.02	0.41
3:H:513:TRP:HA	3:H:516:LEU:HB3	2.02	0.41
5:I:35:DT:C4	5:I:36:DA:N6	2.89	0.41
6:D:16:DA:N6	7:E:42:DA:C6	2.89	0.41
1:A:39:GLY:O	1:A:43:VAL:HG23	2.21	0.41
1:A:321:LYS:O	1:A:324:SER:CB	2.68	0.41
1:A:337:LYS:HE2	1:A:337:LYS:HB3	1.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:GLN:HE22	3:C:570:GLU:CD	2.23	0.41
1:A:349:ILE:HD12	1:A:349:ILE:HA	1.93	0.41
1:A:848:LEU:O	1:A:851:ILE:HB	2.19	0.41
1:A:990:GLN:HG3	1:A:2781:PRO:HG3	2.02	0.41
1:A:1013:ILE:HD12	1:A:1033:ILE:HD11	2.03	0.41
1:A:1145:LEU:O	1:A:1165:LEU:HG	2.20	0.41
1:A:1301:ILE:HD12	1:A:1330:TYR:OH	2.21	0.41
1:A:1322:THR:OG1	1:A:1325:GLN:NE2	2.54	0.41
1:A:1365:ASN:OD1	1:A:1366:THR:N	2.54	0.41
1:A:1412:LYS:HD2	1:A:1415:LEU:HD22	2.03	0.41
1:A:1479:VAL:HG23	1:A:1524:LEU:HD21	2.03	0.41
1:A:1492:ALA:CB	1:A:1555:HIS:HE1	2.34	0.41
1:A:1576:ASP:OD1	1:A:1577:LEU:HD22	2.20	0.41
1:A:1584:GLN:HA	1:A:1628:LYS:HZ2	1.86	0.41
1:A:1667:SER:O	1:A:1671:VAL:HG22	2.21	0.41
1:A:1860:GLU:O	1:A:1863:PHE:HB3	2.20	0.41
1:A:2102:LYS:HD2	1:A:2105:HIS:HB3	2.01	0.41
1:A:2127:LYS:HA	1:A:2127:LYS:HD2	1.84	0.41
1:A:2151:ILE:HG12	1:A:2188:GLU:HG2	2.02	0.41
1:A:2234:ASN:HA	1:A:2237:ILE:HD13	2.03	0.41
1:A:2320:ALA:CB	1:A:2366:LYS:HB2	2.51	0.41
1:A:2357:GLU:OE1	1:A:2357:GLU:N	2.53	0.41
1:A:2455:LEU:O	1:A:2459:VAL:HG22	2.21	0.41
1:A:2455:LEU:O	1:A:2459:VAL:N	2.33	0.41
1:A:2530:ARG:HG3	1:A:2531:LEU:HD13	2.03	0.41
1:A:3147:LYS:HD2	1:A:3150:ASN:OD1	2.21	0.41
1:A:3160:LEU:O	1:A:3163:THR:HB	2.21	0.41
1:A:3283:LEU:CD2	1:A:3287:ARG:HH21	2.30	0.41
1:A:3415:THR:O	1:A:3418:ASP:HB3	2.20	0.41
1:A:3549:HIS:O	1:A:3552:LYS:N	2.54	0.41
1:A:3588:TRP:CZ2	1:A:3613:MET:CB	3.04	0.41
1:A:3689:ASP:O	1:A:3691:LYS:HE2	2.21	0.41
1:A:3753:LYS:NZ	1:A:3756:GLU:O	2.54	0.41
1:A:3758:LEU:O	1:A:3762:GLN:N	2.34	0.41
1:A:3867:THR:HA	1:A:3870:SER:HG	1.86	0.41
1:A:3968:ILE:HD13	1:A:3976:GLU:HB2	2.03	0.41
1:A:3981:TYR:O	1:A:3985:VAL:HG23	2.21	0.41
1:A:4016:PHE:O	1:A:4020:MET:N	2.53	0.41
1:A:4021:LEU:HA	1:A:4027:TRP:CD1	2.55	0.41
2:B:185:ARG:O	2:B:189:LYS:HG2	2.21	0.41
2:B:404:ARG:HH11	2:B:405:ASN:ND2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:LYS:HB2	3:C:7:LYS:HE3	1.76	0.41
3:C:19:THR:OG1	3:C:104:GLN:OE1	2.39	0.41
3:C:81:ARG:NE	3:C:81:ARG:HA	2.35	0.41
3:C:167:PHE:HZ	3:C:197:ILE:HG21	1.86	0.41
3:C:347:LYS:HD3	3:C:389:MET:SD	2.61	0.41
3:C:447:THR:O	3:C:450:GLN:HG2	2.21	0.41
3:C:552:GLU:HG3	3:C:553:ILE:N	2.36	0.41
3:C:629:THR:N	3:C:630:PRO:HD2	2.35	0.41
3:C:674:PHE:O	3:C:678:VAL:HG23	2.21	0.41
1:F:116:THR:OG1	3:H:302:GLU:HG2	2.20	0.41
1:F:392:CYS:O	1:F:397:LEU:HD23	2.21	0.41
1:F:736:LEU:HB3	1:F:740:ILE:CG2	2.48	0.41
1:F:981:ARG:HG2	1:F:981:ARG:H	1.65	0.41
1:F:1172:LEU:HD23	1:F:1194:PHE:HE2	1.86	0.41
1:F:1194:PHE:O	1:F:1198:LEU:HG	2.21	0.41
1:F:1260:LEU:HD21	1:F:1341:ILE:HD11	2.02	0.41
1:F:1264:LEU:HG	1:F:1344:PHE:HB2	2.01	0.41
1:F:1299:GLU:OE1	1:F:1299:GLU:N	2.53	0.41
1:F:1456:LYS:HG3	1:F:1460:ARG:HH22	1.86	0.41
1:F:1558:TYR:O	1:F:1562:LEU:HG	2.20	0.41
1:F:1573:LYS:H	1:F:1573:LYS:HD2	1.86	0.41
1:F:1684:LEU:C	1:F:1689:LYS:HZ3	2.24	0.41
1:F:2140:LEU:N	1:F:2143:ARG:HH21	2.18	0.41
1:F:2150:VAL:O	1:F:2154:GLU:HB3	2.21	0.41
1:F:2224:PHE:O	1:F:2224:PHE:CG	2.74	0.41
1:F:2264:ASP:OD2	1:F:2269:ASP:N	2.54	0.41
1:F:2426:HIS:CG	1:F:2427:ARG:N	2.88	0.41
1:F:2878:ALA:O	1:F:2881:LEU:HB2	2.21	0.41
1:F:2897:LEU:HD21	1:F:2923:TRP:CH2	2.55	0.41
1:F:3009:LYS:HD2	1:F:3051:LEU:HD21	2.02	0.41
1:F:3099:ALA:O	1:F:3103:ILE:HG13	2.21	0.41
1:F:3352:GLU:OE1	1:F:3356:ALA:N	2.54	0.41
1:F:3666:LEU:HD12	1:F:3666:LEU:HA	1.89	0.41
1:F:3669:LYS:HG3	1:F:3670:MET:HE2	2.03	0.41
1:F:3823:GLU:H	1:F:3823:GLU:CD	2.24	0.41
2:G:283:PRO:O	3:H:314:PHE:HE2	2.04	0.41
2:G:486:HIS:O	2:G:490:LEU:HG	2.20	0.41
3:H:163:PHE:O	3:H:225:TYR:HB2	2.21	0.41
3:H:469:LYS:HA	3:H:469:LYS:HD3	1.95	0.41
1:A:190:ILE:O	1:A:193:ALA:N	2.54	0.41
1:A:203:GLU:OE2	1:A:206:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:GLU:HB3	1:A:251:PHE:CE2	2.55	0.41
1:A:264:ARG:HG2	1:A:265:TYR:H	1.86	0.41
1:A:429:GLU:OE1	1:A:429:GLU:N	2.31	0.41
1:A:647:TYR:CD2	1:A:703:CYS:HB3	2.56	0.41
1:A:1465:HIS:HA	1:A:1468:LEU:HB3	2.03	0.41
1:A:1642:LYS:O	1:A:1646:LEU:HG	2.21	0.41
1:A:1855:PHE:HA	1:A:1863:PHE:HE1	1.86	0.41
1:A:1871:MET:HA	1:A:1874:TYR:CD2	2.56	0.41
1:A:2316:TYR:OH	1:A:2359:LYS:HD2	2.21	0.41
1:A:2421:VAL:CG2	1:A:2457:PRO:HG3	2.44	0.41
1:A:2510:LEU:HD13	1:A:2521:ILE:HG21	2.03	0.41
1:A:2965:TYR:HB2	1:A:3005:LEU:HD21	2.03	0.41
1:A:3008:TRP:HD1	1:A:3011:LEU:HD22	1.86	0.41
1:A:3054:GLN:HB2	1:A:3056:GLU:OE2	2.21	0.41
1:A:3085:GLU:O	1:A:3088:LEU:HB3	2.21	0.41
1:A:3252:PHE:HB2	1:A:3256:MET:HE1	2.03	0.41
1:A:3546:SER:C	1:A:3549:HIS:HD1	2.24	0.41
1:A:3822:GLN:NE2	1:A:3823:GLU:OE1	2.53	0.41
1:A:3989:ARG:HG3	1:A:3989:ARG:NH1	2.36	0.41
1:A:4012:ASP:N	1:A:4015:ASN:OD1	2.54	0.41
2:B:181:ALA:O	2:B:185:ARG:HG3	2.21	0.41
2:B:413:LEU:HA	2:B:434:LEU:HA	2.03	0.41
2:B:418:GLU:OE2	3:C:437:SER:HB3	2.21	0.41
3:C:165:LEU:O	3:C:227:PHE:N	2.54	0.41
3:C:184:ARG:HB3	3:C:187:GLY:H	1.86	0.41
3:C:405:VAL:N	3:C:421:TYR:OH	2.54	0.41
3:C:602:VAL:HG23	3:C:603:LYS:HZ2	1.86	0.41
3:C:651:GLU:HG2	3:C:654:ARG:NH2	2.36	0.41
1:F:38:LEU:HD21	1:F:85:ILE:HG13	2.03	0.41
1:F:151:GLU:HG2	1:F:152:LEU:HD22	2.03	0.41
1:F:199:ALA:HA	2:G:312:LEU:HD21	2.02	0.41
1:F:454:GLN:HA	1:F:457:CYS:HB2	2.02	0.41
1:F:959:TYR:HD1	1:F:1004:GLN:OE1	2.04	0.41
1:F:962:TYR:HB3	1:F:966:PHE:CE2	2.56	0.41
1:F:1082:PHE:HE2	1:F:1133:HIS:HB2	1.85	0.41
1:F:1311:LYS:HD3	1:F:1311:LYS:HA	1.90	0.41
1:F:1601:LEU:HB3	1:F:1651:LYS:HG2	2.03	0.41
1:F:1608:ARG:HB2	1:F:1612:LYS:HZ2	1.86	0.41
1:F:1611:GLN:HB2	1:F:1613:HIS:ND1	2.36	0.41
1:F:1727:ARG:NE	1:F:1772:HIS:HA	2.36	0.41
1:F:1743:MET:O	1:F:1747:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1809:ASP:OD1	3:H:672:ASN:ND2	2.54	0.41
1:F:3019:ILE:HD13	1:F:3037:GLN:HE22	1.86	0.41
1:F:3228:SER:HA	1:F:3231:ILE:HG12	2.03	0.41
1:F:3498:TRP:HE3	1:F:3501:HIS:CE1	2.39	0.41
1:F:3750:PHE:HD1	1:F:3804:GLU:HA	1.85	0.41
1:F:3813:LYS:HG3	1:F:3926:ASN:ND2	2.36	0.41
1:F:3873:LYS:HA	1:F:3873:LYS:HD2	1.91	0.41
2:G:95:ASN:CG	2:G:98:ASN:H	2.23	0.41
3:H:90:LEU:O	3:H:94:ILE:HG13	2.21	0.41
3:H:340:PHE:CE2	3:H:393:VAL:HG21	2.56	0.41
3:H:510:GLN:HA	3:H:513:TRP:HE3	1.79	0.41
4:J:22:DG:C2	5:I:35:DT:N3	2.89	0.41
1:A:432:THR:OG1	1:A:433:PRO:HD3	2.20	0.40
1:A:785:MET:HA	1:A:788:TYR:CD2	2.46	0.40
1:A:975:ASP:HB3	1:A:980:THR:HG21	2.03	0.40
1:A:1311:LYS:HA	1:A:1311:LYS:HD3	1.69	0.40
1:A:1665:HIS:H	1:A:1668:PHE:HB3	1.85	0.40
1:A:1803:GLU:OE2	1:A:1806:ARG:NH2	2.54	0.40
1:A:1811:ARG:NH2	3:C:625:ASP:HB3	2.37	0.40
1:A:2316:TYR:HA	1:A:2319:ALA:HB3	2.03	0.40
1:A:2357:GLU:HG2	1:A:2358:ASP:H	1.83	0.40
1:A:3235:LYS:O	1:A:3238:MET:HG2	2.21	0.40
1:A:3251:ASN:ND2	1:A:3254:LEU:HB3	2.32	0.40
1:A:3272:TRP:N	1:A:3272:TRP:CD1	2.87	0.40
1:A:3466:PRO:O	1:A:3469:LEU:N	2.54	0.40
1:A:3543:LYS:HB3	1:A:3548:GLY:CA	2.48	0.40
1:A:3603:LYS:HB2	1:A:3604:LYS:NZ	2.36	0.40
1:A:3809:THR:OG1	1:A:3929:MET:HB3	2.21	0.40
1:A:3822:GLN:H	1:A:3822:GLN:HG3	1.65	0.40
1:A:3904:PHE:HA	1:A:3907:SER:OG	2.21	0.40
1:A:4075:ARG:HA	1:A:4078:VAL:HG12	2.04	0.40
2:B:262:LYS:HD3	2:B:264:ASN:O	2.20	0.40
2:B:384:ALA:HA	3:C:446:PRO:HB3	2.02	0.40
2:B:419:GLU:OE2	2:B:428:THR:HB	2.21	0.40
2:B:450:GLU:HA	3:C:416:TYR:CD1	2.55	0.40
2:B:482:VAL:HG13	3:C:333:TYR:O	2.21	0.40
3:C:326:VAL:O	3:C:330:GLN:HG2	2.20	0.40
1:F:87:LYS:HZ2	1:F:91:ILE:HG21	1.86	0.40
1:F:257:ARG:NH2	3:H:552:GLU:HB3	2.36	0.40
1:F:357:LYS:HG2	1:F:357:LYS:O	2.21	0.40
1:F:360:SER:O	1:F:363:ILE:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:393:LYS:HB3	1:F:393:LYS:HE3	1.80	0.40
1:F:536:SER:HB2	1:F:539:GLN:HE22	1.87	0.40
1:F:613:HIS:ND1	1:F:614:PRO:O	2.53	0.40
1:F:991:LEU:HB3	1:F:995:PHE:CZ	2.56	0.40
1:F:1000:LYS:HD2	1:F:1000:LYS:HA	1.86	0.40
1:F:1097:GLU:HA	1:F:1145:LEU:HD21	2.02	0.40
1:F:1123:THR:HA	1:F:1126:GLN:NE2	2.34	0.40
1:F:1282:LEU:HD12	1:F:1359:LEU:O	2.20	0.40
1:F:1915:LEU:HD22	1:F:1918:LEU:HD12	2.03	0.40
1:F:2503:LYS:HA	1:F:2503:LYS:HD3	1.84	0.40
1:F:2574:ASN:N	1:F:2786:LYS:HG3	2.36	0.40
1:F:3029:LYS:HA	1:F:3074:GLN:OE1	2.21	0.40
1:F:3061:LEU:HD23	1:F:3061:LEU:H	1.86	0.40
1:F:3182:ILE:O	1:F:3186:ARG:HG3	2.21	0.40
1:F:3420:CYS:HB2	1:F:3446:VAL:HG11	2.01	0.40
1:F:3554:PHE:HD1	1:F:3557:ARG:HE	1.69	0.40
1:F:3820:MET:CE	1:F:3882:LEU:HB2	2.51	0.40
1:F:3849:LYS:H	1:F:3854:ALA:CB	2.34	0.40
1:F:4008:GLU:OE2	1:F:4010:SER:HB3	2.21	0.40
1:F:4110:GLN:O	1:F:4116:ILE:HD11	2.22	0.40
2:G:325:ARG:HB3	2:G:327:ILE:HD11	2.03	0.40
2:G:400:TYR:O	2:G:409:TYR:N	2.50	0.40
2:G:418:GLU:HB3	2:G:426:GLN:HE22	1.85	0.40
3:H:133:GLU:OE1	3:H:133:GLU:N	2.54	0.40
4:J:33:DA:C8	4:J:34:DT:C4	3.10	0.40
1:A:17:GLU:O	1:A:21:ALA:N	2.54	0.40
1:A:134:LEU:HD23	1:A:134:LEU:HA	1.90	0.40
1:A:173:LYS:HE2	1:A:173:LYS:HB2	1.86	0.40
1:A:519:TRP:HB3	1:A:521:VAL:HG23	2.03	0.40
1:A:579:LEU:HD23	1:A:579:LEU:HA	1.91	0.40
1:A:585:ILE:HA	1:A:611:ASN:O	2.22	0.40
1:A:789:TYR:HB3	1:A:793:LEU:HD13	2.03	0.40
1:A:798:GLY:HA2	1:A:801:LYS:HG2	2.03	0.40
1:A:890:LYS:HE2	1:A:906:PHE:CG	2.57	0.40
1:A:1039:TRP:HA	1:A:1043:GLN:H	1.86	0.40
1:A:1149:LYS:HD2	1:A:1149:LYS:HA	1.88	0.40
1:A:1209:LYS:HZ1	1:A:1276:VAL:HA	1.85	0.40
1:A:1873:TYR:O	1:A:1877:LEU:HD23	2.21	0.40
1:A:2162:LYS:C	1:A:2164:TRP:H	2.24	0.40
1:A:2397:CYS:O	1:A:2401:VAL:HG23	2.22	0.40
1:A:3036:TYR:O	1:A:3039:THR:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3413:TYR:HB3	1:A:3453:ALA:CB	2.51	0.40
1:A:3474:ARG:NH1	1:A:3474:ARG:HB2	2.36	0.40
1:A:3602:ASN:OD1	1:A:3602:ASN:N	2.54	0.40
1:A:3820:MET:HE1	1:A:3825:LYS:HB2	2.02	0.40
1:A:3883:LEU:HG	1:A:3884:LYS:HD3	2.03	0.40
1:A:3967:PHE:O	1:A:3970:LEU:N	2.55	0.40
1:A:4000:ASN:O	1:A:4004:VAL:HG22	2.21	0.40
2:B:49:PHE:HZ	2:B:131:PHE:HB3	1.86	0.40
2:B:219:ASP:CG	2:B:220:ILE:H	2.23	0.40
2:B:325:ARG:NH2	2:B:327:ILE:HD13	2.36	0.40
3:C:553:ILE:HG13	3:C:554:PHE:H	1.86	0.40
1:F:11:SER:O	1:F:14:ARG:HG3	2.22	0.40
1:F:132:ILE:HA	1:F:135:LEU:HD12	2.03	0.40
1:F:254:LYS:CE	1:F:268:PRO:HB3	2.52	0.40
1:F:391:ARG:O	1:F:395:MET:HG2	2.22	0.40
1:F:422:LEU:HD21	1:F:548:GLU:HG3	2.03	0.40
1:F:457:CYS:O	1:F:460:ALA:N	2.54	0.40
1:F:539:GLN:OE1	1:F:539:GLN:N	2.45	0.40
1:F:632:GLU:O	1:F:635:PRO:HD2	2.22	0.40
1:F:971:ARG:CZ	1:F:971:ARG:HA	2.50	0.40
1:F:1000:LYS:HZ3	1:F:1004:GLN:HB3	1.87	0.40
1:F:1447:ARG:HH11	1:F:1447:ARG:HB2	1.86	0.40
1:F:1504:ASP:O	1:F:1508:LYS:N	2.46	0.40
1:F:1924:THR:HG22	1:F:1924:THR:O	2.21	0.40
1:F:2216:LEU:O	1:F:2219:LEU:HB2	2.21	0.40
1:F:2287:PRO:HD3	1:F:2329:TYR:CD2	2.55	0.40
1:F:2541:ALA:O	1:F:2544:SER:OG	2.34	0.40
1:F:2555:LEU:HD13	1:F:2854:PHE:HD1	1.86	0.40
1:F:2950:LYS:HE2	1:F:2950:LYS:HB3	1.93	0.40
1:F:3269:ARG:HH11	1:F:3270:ASP:H	1.70	0.40
1:F:3333:THR:O	1:F:3337:ILE:HG12	2.21	0.40
1:F:3686:TRP:O	1:F:3690:PHE:HB2	2.21	0.40
1:F:3952:PHE:O	1:F:3953:LEU:HD22	2.21	0.40
3:H:363:LYS:HA	3:H:419:LEU:O	2.20	0.40
1:A:100:ILE:C	1:A:102:PRO:HD2	2.41	0.40
1:A:261:ASP:CG	3:C:551:GLN:HE22	2.25	0.40
1:A:346:TYR:CE2	1:A:350:ARG:HD2	2.56	0.40
1:A:939:MET:O	1:A:942:LEU:HB2	2.21	0.40
1:A:1204:PRO:O	1:A:1208:LEU:HG	2.21	0.40
1:A:1294:VAL:HA	1:A:1297:PHE:CD2	2.57	0.40
1:A:1686:LEU:O	1:A:1689:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1956:PHE:O	1:A:1956:PHE:CG	2.75	0.40
1:A:2201:THR:OG1	1:A:2203:THR:HG22	2.21	0.40
1:A:2457:PRO:HA	1:A:2460:GLU:CD	2.42	0.40
1:A:2869:LEU:HD21	1:A:2895:GLU:C	2.42	0.40
1:A:2941:GLY:HA3	1:A:3978:GLY:HA2	2.02	0.40
1:A:3144:PHE:HA	1:A:3150:ASN:ND2	2.34	0.40
1:A:3635:THR:HA	1:A:3638:LYS:HD2	2.02	0.40
2:B:204:HIS:NE2	2:B:213:ILE:HB	2.36	0.40
2:B:296:VAL:HG12	3:C:297:LEU:HA	2.03	0.40
2:B:509:PRO:HA	2:B:514:MET:SD	2.61	0.40
3:C:77:ILE:HG21	3:C:113:VAL:HG21	2.02	0.40
3:C:604:GLN:O	3:C:604:GLN:HG3	2.22	0.40
1:F:200:PHE:HB3	1:F:224:LEU:HD21	2.04	0.40
1:F:278:HIS:CD2	1:F:281:GLN:HG3	2.57	0.40
1:F:339:GLN:O	1:F:343:GLU:HG3	2.22	0.40
1:F:352:VAL:O	1:F:353:ASP:HB2	2.21	0.40
1:F:1195:VAL:HA	1:F:1198:LEU:HD12	2.03	0.40
1:F:1330:TYR:O	1:F:1334:LYS:HG3	2.21	0.40
1:F:1762:MET:HA	1:F:1765:VAL:HG12	2.03	0.40
1:F:1801:VAL:HA	1:F:1804:MET:HE2	2.02	0.40
1:F:2372:PRO:O	1:F:2374:LEU:N	2.51	0.40
1:F:2443:MET:CE	1:F:2476:ILE:HG12	2.51	0.40
1:F:2479:TRP:O	1:F:2482:ASP:HB2	2.21	0.40
1:F:2532:PRO:HB2	1:F:2537:ASP:HB3	2.02	0.40
1:F:2812:LEU:O	1:F:2816:ILE:HG12	2.21	0.40
1:F:2969:ALA:HB2	1:F:3001:CYS:SG	2.61	0.40
1:F:3006:ALA:HA	1:F:3008:TRP:CZ3	2.56	0.40
1:F:3096:VAL:HA	1:F:3099:ALA:HB3	2.04	0.40
1:F:3275:SER:HA	1:F:3278:GLN:HE22	1.86	0.40
1:F:3641:ASP:O	1:F:3642:LYS:HG2	2.21	0.40
1:F:3746:ARG:HA	1:F:3746:ARG:HH11	1.80	0.40
1:F:3813:LYS:HZ2	1:F:3925:LEU:HB3	1.85	0.40
1:F:3820:MET:HB3	1:F:3824:GLU:OE1	2.20	0.40
2:G:433:GLN:HA	2:G:433:GLN:OE1	2.20	0.40
3:H:269:GLN:NE2	3:H:359:ASN:O	2.54	0.40
1:A:11:SER:HA	1:A:14:ARG:NE	2.36	0.40
1:A:152:LEU:HD13	1:A:155:LYS:HZ3	1.86	0.40
1:A:238:MET:SD	1:A:243:GLN:HB3	2.61	0.40
1:A:267:VAL:N	1:A:268:PRO:HD2	2.37	0.40
1:A:322:GLN:C	1:A:324:SER:N	2.75	0.40
1:A:405:ASP:HB2	1:A:406:ARG:HH11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1783:ARG:HG2	1:A:1830:HIS:NE2	2.36	0.40
1:A:1789:GLY:C	1:A:1794:GLN:HE22	2.24	0.40
1:A:1848:ILE:HA	1:A:1851:LEU:HD12	2.03	0.40
1:A:1927:MET:SD	1:A:1928:ALA:N	2.95	0.40
1:A:2840:PHE:O	1:A:2844:LEU:HD23	2.21	0.40
1:A:3037:GLN:HA	1:A:3040:TYR:HD2	1.87	0.40
1:A:3244:ASP:OD1	1:A:3247:ARG:NH2	2.55	0.40
1:A:3258:LEU:O	1:A:3262:LEU:HG	2.21	0.40
1:A:3307:LEU:O	1:A:3308:ASP:HB2	2.22	0.40
1:A:3646:LYS:HE3	1:A:3651:LEU:H	1.87	0.40
1:A:3671:ASN:N	1:A:3671:ASN:OD1	2.55	0.40
1:A:3884:LYS:HZ3	1:A:3901:ARG:HH12	1.69	0.40
1:A:4113:ASP:O	1:A:4117:LEU:HG	2.21	0.40
2:B:50:GLU:O	2:B:52:GLN:HG2	2.20	0.40
2:B:95:ASN:HD21	2:B:99:PHE:H	1.70	0.40
2:B:259:LEU:HG	2:B:260:LYS:N	2.37	0.40
2:B:385:LEU:HD23	2:B:432:PHE:CE1	2.56	0.40
2:B:417:GLU:OE1	2:B:417:GLU:N	2.54	0.40
2:B:420:LEU:CD2	2:B:424:LYS:HA	2.52	0.40
2:B:442:ASP:OD2	3:C:267:ILE:HD12	2.21	0.40
3:C:20:MET:HA	3:C:137:ASP:OD1	2.21	0.40
3:C:89:ASP:OD1	3:C:90:LEU:HD12	2.21	0.40
3:C:346:CYS:SG	3:C:347:LYS:N	2.94	0.40
3:C:366:ALA:O	3:C:368:ARG:NH1	2.52	0.40
3:C:448:GLU:HA	3:C:451:LEU:HD12	2.04	0.40
1:F:163:LYS:HZ3	2:G:311:LEU:HB3	1.86	0.40
1:F:646:VAL:HG23	1:F:647:TYR:N	2.36	0.40
1:F:852:ARG:HA	1:F:855:VAL:HB	2.02	0.40
1:F:909:VAL:HB	1:F:910:PHE:CE2	2.56	0.40
1:F:1001:PHE:HB3	1:F:1002:GLU:OE1	2.22	0.40
1:F:1096:VAL:HG23	1:F:1141:LYS:NZ	2.25	0.40
1:F:1483:LEU:O	1:F:1487:VAL:HG12	2.21	0.40
1:F:1700:THR:HA	1:F:1707:LEU:HD21	2.04	0.40
1:F:1845:VAL:HG13	1:F:1846:ASP:N	2.37	0.40
1:F:2105:HIS:HB2	1:F:2156:VAL:HG23	2.02	0.40
1:F:2162:LYS:HG3	1:F:2163:HIS:N	2.36	0.40
1:F:2169:LEU:CD2	1:F:2208:ASP:HB2	2.50	0.40
1:F:2207:LYS:HD2	1:F:2208:ASP:N	2.36	0.40
1:F:2383:PHE:HB3	1:F:2418:LYS:CE	2.51	0.40
1:F:2439:ILE:HA	1:F:2442:MET:CG	2.48	0.40
1:F:2484:TYR:CD1	1:F:2495:SER:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2534:ASN:HB3	1:F:2537:ASP:HB3	2.04	0.40
1:F:2554:PHE:CD1	1:F:2557:LEU:HB2	2.50	0.40
1:F:2560:ASN:HA	1:F:2563:LEU:HD12	2.03	0.40
1:F:2852:PRO:HG3	1:F:2883:SER:HA	2.02	0.40
1:F:2887:PRO:HG2	1:F:3895:GLU:OE2	2.21	0.40
1:F:3044:MET:O	1:F:3047:SER:OG	2.32	0.40
1:F:3090:TYR:CE2	1:F:3098:ARG:HG2	2.57	0.40
1:F:3147:LYS:HD3	1:F:3150:ASN:H	1.86	0.40
1:F:3641:ASP:OD1	1:F:3642:LYS:N	2.49	0.40
1:F:3652:LEU:HD12	1:F:3652:LEU:HA	1.86	0.40
1:F:3717:VAL:HA	1:F:3743:HIS:CE1	2.56	0.40
1:F:3856:MET:O	1:F:3860:LYS:HG3	2.21	0.40
1:F:4044:ILE:HG13	1:F:4045:CYS:N	2.36	0.40
1:F:4102:THR:HA	1:F:4105:LYS:HZ2	1.86	0.40
1:F:4103:GLN:O	1:F:4107:LEU:HG	2.21	0.40
2:G:59:PRO:HB3	2:G:205:LEU:HD12	2.04	0.40
2:G:386:LEU:HD23	2:G:386:LEU:HA	1.95	0.40
3:H:208:VAL:O	3:H:211:VAL:HB	2.21	0.40
3:H:456:ALA:HB1	3:H:529:PRO:HB3	2.04	0.40
3:H:520:ALA:O	3:H:524:THR:HG23	2.21	0.40
3:H:727:ASP:HA	3:H:730:ASP:OD2	2.20	0.40
6:D:22:DG:C6	7:E:34:DC:C4	3.09	0.40
1:A:38:LEU:HA	1:A:41:GLU:OE1	2.22	0.40
1:A:99:LYS:HD2	1:A:99:LYS:HA	1.82	0.40
1:A:251:PHE:HD1	1:A:254:LYS:HD2	1.86	0.40
1:A:363:ILE:HG13	1:A:364:ARG:N	2.36	0.40
1:A:392:CYS:O	1:A:395:MET:HG2	2.22	0.40
1:A:960:GLN:HA	1:A:963:LYS:HZ2	1.86	0.40
1:A:1107:TYR:HE2	1:A:1131:ILE:CD1	2.34	0.40
1:A:1850:VAL:HG12	1:A:1870:LYS:HG2	2.04	0.40
1:A:2386:LEU:HD13	1:A:2397:CYS:HB3	2.03	0.40
1:A:2887:PRO:HA	1:A:2890:ILE:HD12	2.04	0.40
1:A:3124:SER:OG	1:A:3125:ARG:N	2.55	0.40
1:A:3753:LYS:NZ	1:A:3756:GLU:HB2	2.36	0.40
1:A:3953:LEU:CD1	1:A:4027:TRP:HB2	2.47	0.40
1:A:3968:ILE:HD13	1:A:3976:GLU:OE1	2.21	0.40
2:B:35:ARG:HB2	2:B:160:LYS:O	2.21	0.40
2:B:262:LYS:CB	2:B:268:VAL:HG12	2.47	0.40
2:B:282:LYS:HE3	7:E:26:DA:OP2	2.22	0.40
2:B:288:LEU:HD12	3:C:322:PRO:HA	2.04	0.40
2:B:325:ARG:HD2	2:B:325:ARG:HA	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:519:GLY:O	2:B:522:VAL:HG12	2.21	0.40
3:C:384:LEU:HD12	3:C:389:MET:O	2.21	0.40
3:C:616:LEU:HA	3:C:619:HIS:HD1	1.86	0.40
1:F:54:GLN:O	1:F:58:VAL:HG22	2.21	0.40
1:F:647:TYR:CD1	1:F:699:GLU:HB2	2.55	0.40
1:F:678:LYS:HZ1	1:F:683:PHE:HB2	1.86	0.40
1:F:1145:LEU:CD1	1:F:1151:ARG:HH21	2.34	0.40
1:F:1453:SER:HA	1:F:1456:LYS:NZ	2.36	0.40
1:F:2347:LYS:HA	1:F:2350:LYS:NZ	2.36	0.40
1:F:3034:PRO:O	1:F:3038:GLU:HG3	2.21	0.40
1:F:3049:LEU:HD23	1:F:3052:LEU:HD12	2.03	0.40
1:F:3076:ALA:O	1:F:3079:GLU:HG3	2.21	0.40
1:F:3810:VAL:N	1:F:3930:VAL:O	2.44	0.40
1:F:4056:PRO:O	1:F:4060:THR:HG23	2.22	0.40
1:F:4125:GLU:OE1	1:F:4125:GLU:N	2.54	0.40
2:G:173:ASP:OD2	2:G:214:SER:N	2.55	0.40
2:G:351:LYS:NZ	3:H:463:LEU:HB3	2.37	0.40
3:H:413:LYS:HD3	3:H:413:LYS:HA	1.96	0.40
3:H:654:ARG:HE	3:H:658:PHE:HZ	1.69	0.40
7:E:40:DT:H4'	7:E:41:DT:OP1	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	3714/4156 (89%)	3263 (88%)	446 (12%)	5 (0%)	51 86
1	F	3675/4156 (88%)	3257 (89%)	416 (11%)	2 (0%)	51 86
2	B	485/609 (80%)	422 (87%)	63 (13%)	0	100 100
2	G	485/609 (80%)	428 (88%)	56 (12%)	1 (0%)	47 81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	C	699/732 (96%)	633 (91%)	66 (9%)	0	100	100
3	H	694/732 (95%)	625 (90%)	69 (10%)	0	100	100
All	All	9752/10994 (89%)	8628 (88%)	1116 (11%)	8 (0%)	54	86

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	446	PHE
1	A	3487	ILE
2	G	372	GLU
1	F	2257	PHE
1	A	2333	ARG
1	A	2945	SER
1	F	3479	THR
1	A	3320	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3033/3671 (83%)	3004 (99%)	29 (1%)	76	86
1	F	3087/3671 (84%)	3063 (99%)	24 (1%)	81	89
2	B	400/548 (73%)	391 (98%)	9 (2%)	50	70
2	G	402/548 (73%)	395 (98%)	7 (2%)	60	78
3	C	591/649 (91%)	590 (100%)	1 (0%)	93	96
3	H	601/649 (93%)	597 (99%)	4 (1%)	84	90
All	All	8114/9736 (83%)	8040 (99%)	74 (1%)	79	87

All (74) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	90	CYS

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Mol	Chain	Res	Type
1	A	108	LYS
1	A	213	ARG
1	A	325	ASN
1	A	329	LYS
1	A	406	ARG
1	A	782	ARG
1	A	835	LYS
1	A	868	LYS
1	A	899	ARG
1	A	1193	LYS
1	A	1357	LYS
1	A	1418	HIS
1	A	1551	ILE
1	A	1573	LYS
1	A	1806	ARG
1	A	1837	ARG
1	A	2246	LYS
1	A	2425	ARG
1	A	2806	LYS
1	A	2928	LYS
1	A	2946	GLU
1	A	3098	ARG
1	A	3614	TYR
1	A	3733	ARG
1	A	3734	ARG
1	A	3739	ILE
1	A	3789	ARG
2	B	92	LYS
2	B	93	ASP
2	B	114	LYS
2	B	258	ARG
2	B	262	LYS
2	B	271	VAL
2	B	399	ARG
2	B	403	ARG
2	B	515	ASN
3	C	325	LYS
1	F	24	ARG
1	F	61	ARG
1	F	96	MET
1	F	99	LYS
1	F	205	LYS

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Mol	Chain	Res	Type
1	F	299	LYS
1	F	554	ASN
1	F	1170	LYS
1	F	1735	ARG
1	F	1784	ARG
1	F	2207	LYS
1	F	2228	ARG
1	F	2470	ARG
1	F	2806	LYS
1	F	3098	ARG
1	F	3235	LYS
1	F	3477	GLU
1	F	3557	ARG
1	F	3586	LYS
1	F	3696	ARG
1	F	3799	ARG
1	F	3901	ARG
1	F	3992	ARG
1	F	4128	MET
2	G	258	ARG
2	G	262	LYS
2	G	271	VAL
2	G	299	LYS
2	G	304	ASN
2	G	515	ASN
2	G	534	TYR
3	H	81	ARG
3	H	209	LYS
3	H	554	PHE
3	H	643	ARG

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

Mol	Chain	Res	Type
1	A	339	GLN
1	A	390	GLN
1	A	442	GLN
1	A	586	GLN
1	A	869	ASN
1	A	1047	GLN
1	A	1084	ASN
1	A	1367	HIS

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Mol	Chain	Res	Type
1	A	1457	GLN
1	A	1509	GLN
1	A	1625	HIS
1	A	1794	GLN
1	A	2217	ASN
1	A	2295	GLN
1	A	2306	ASN
1	A	2483	ASN
1	A	2543	ASN
1	A	3074	GLN
1	A	3263	HIS
1	A	3278	GLN
1	A	3383	GLN
1	A	3743	HIS
1	A	3787	GLN
1	A	3808	ASN
1	A	3850	HIS
2	B	101	ASN
2	B	171	ASN
2	B	485	GLN
3	C	75	GLN
3	C	298	ASN
3	C	402	ASN
3	C	514	ASN
1	F	98	GLN
1	F	191	ASN
1	F	192	ASN
1	F	339	GLN
1	F	477	ASN
1	F	857	GLN
1	F	925	GLN
1	F	982	GLN
1	F	1004	GLN
1	F	1083	ASN
1	F	1115	HIS
1	F	1146	ASN
1	F	1180	GLN
1	F	1251	GLN
1	F	1367	HIS
1	F	1457	GLN
1	F	1477	HIS
1	F	1509	GLN

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Mol	Chain	Res	Type
1	F	1625	HIS
1	F	1830	HIS
1	F	1909	ASN
1	F	2130	HIS
1	F	2432	GLN
1	F	2523	ASN
1	F	3074	GLN
1	F	3093	GLN
1	F	3133	GLN
1	F	3249	GLN
1	F	3422	GLN
1	F	3457	ASN
1	F	3470	GLN
1	F	3590	ASN
2	G	95	ASN
2	G	126	GLN
2	G	132	GLN
2	G	458	GLN
2	G	484	GLN
2	G	485	GLN
2	G	515	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	F	2
1	A	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F	4128:MET	C	5009:UNK	N	96.98
1	A	4128:MET	C	5009:UNK	N	96.43
1	A	5016:UNK	C	6004:UNK	N	49.12
1	F	5016:UNK	C	6004:UNK	N	48.83

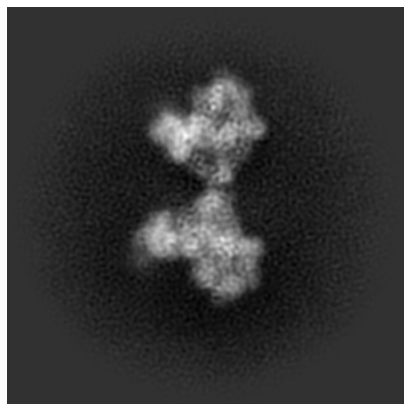
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-11219. These allow visual inspection of the internal detail of the map and identification of artifacts.

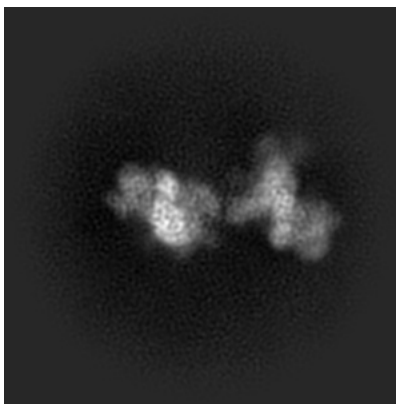
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

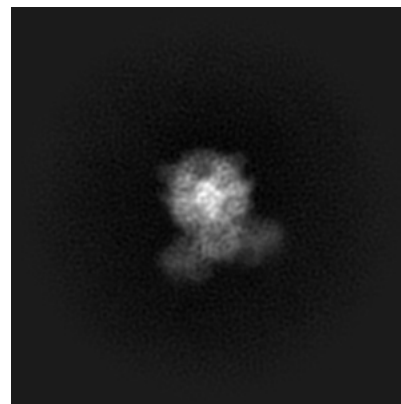
6.1.1 Primary map



X

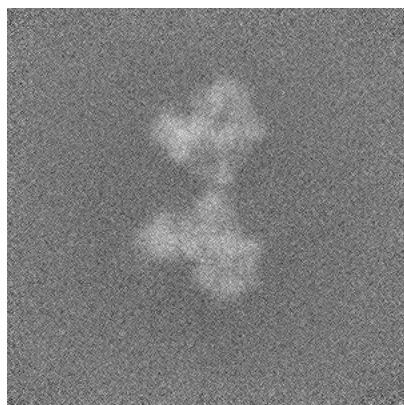


Y

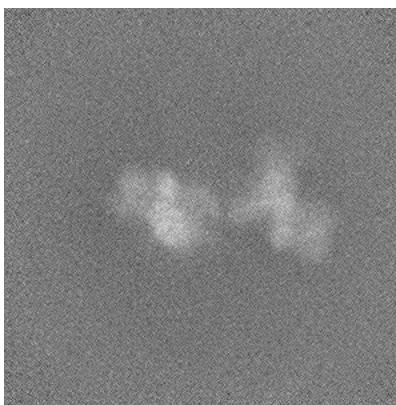


Z

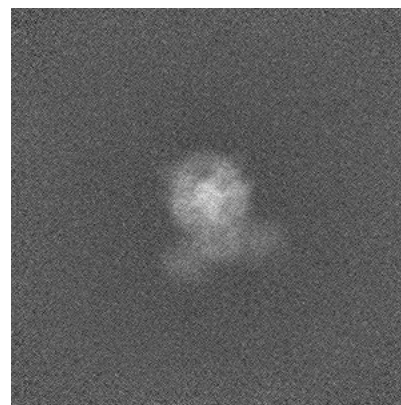
6.1.2 Raw map



X



Y

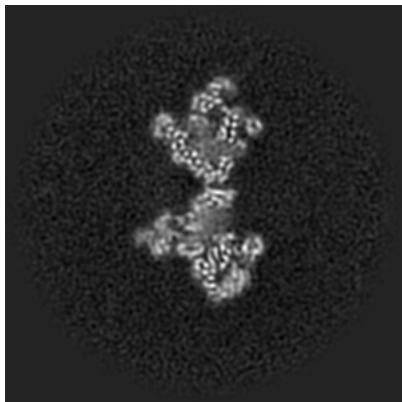


Z

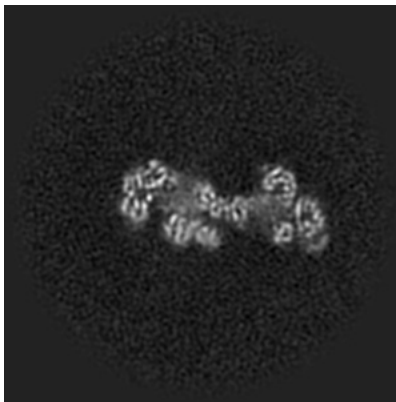
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

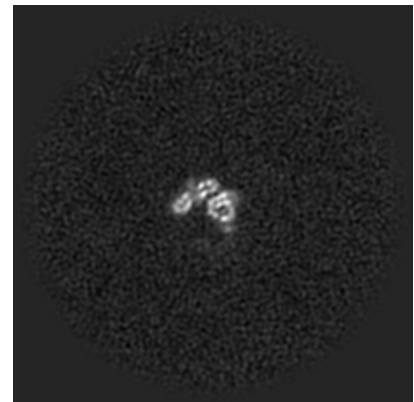
6.2.1 Primary map



X Index: 280

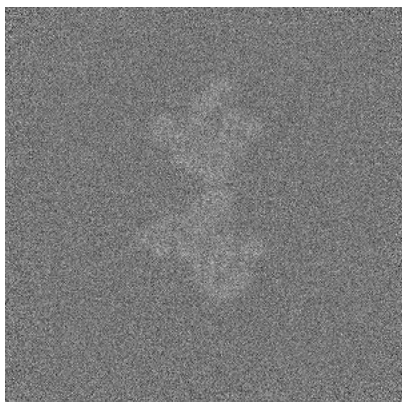


Y Index: 280

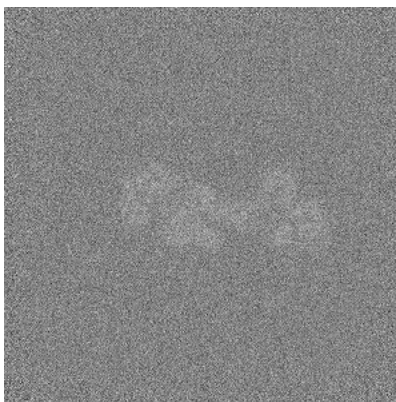


Z Index: 280

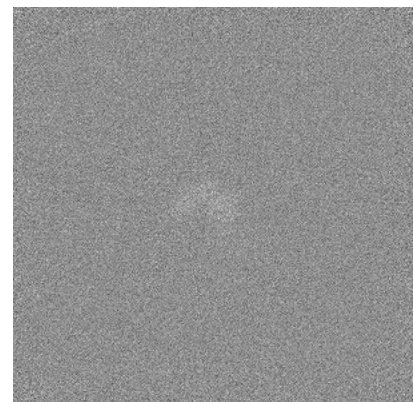
6.2.2 Raw map



X Index: 280



Y Index: 280

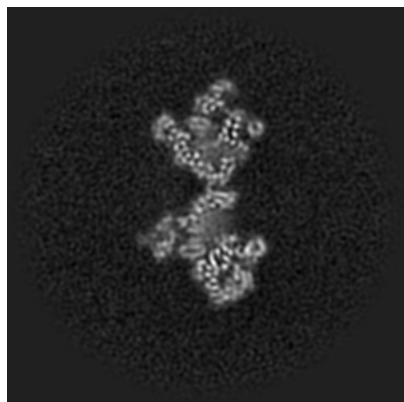


Z Index: 280

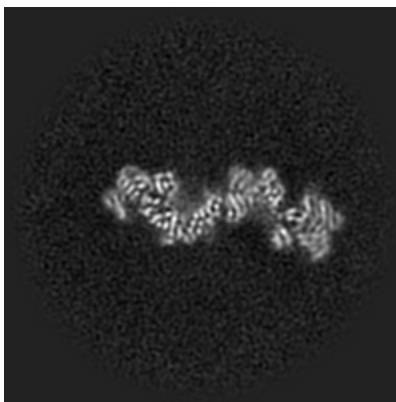
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

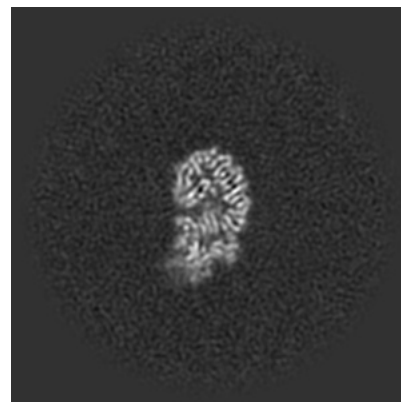
6.3.1 Primary map



X Index: 282

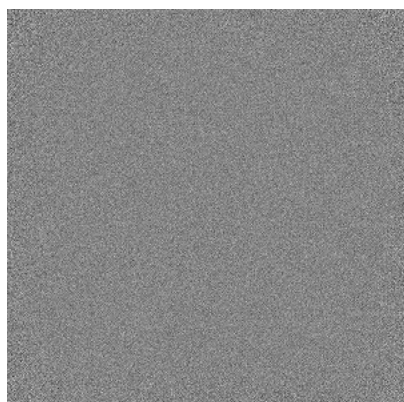


Y Index: 299

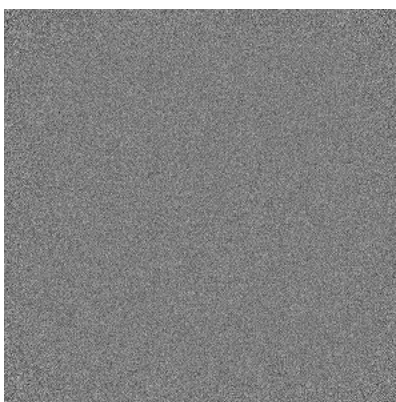


Z Index: 225

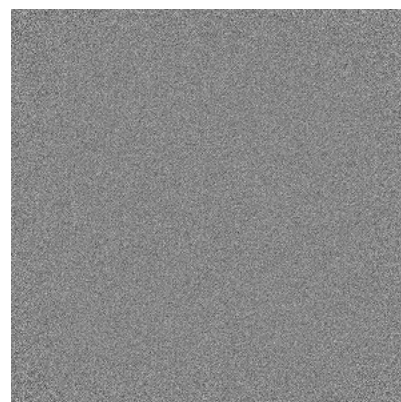
6.3.2 Raw map



X Index: 0



Y Index: 0

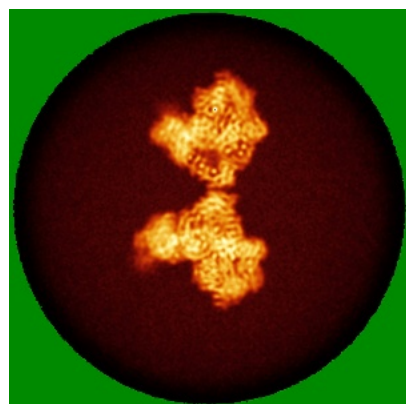


Z Index: 0

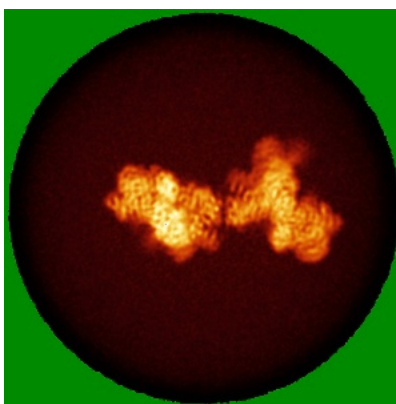
The images above show the largest variance slices of the map in three orthogonal directions.

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

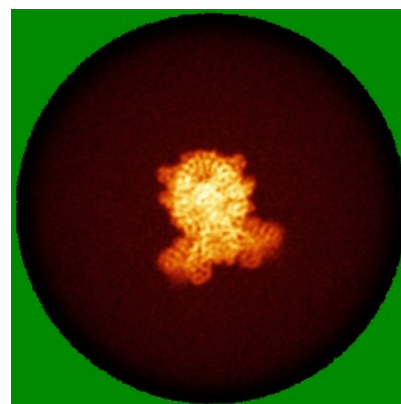
6.4.1 Primary map



X

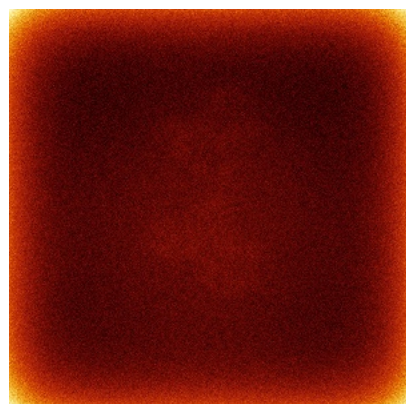


Y

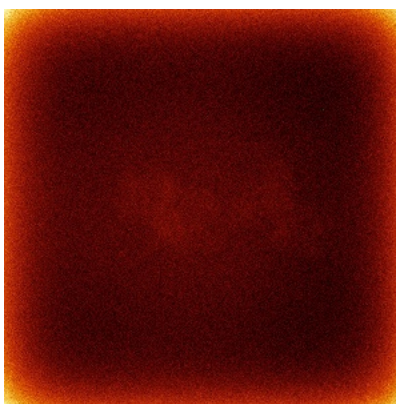


Z

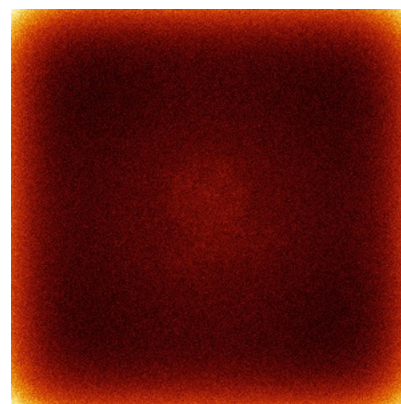
6.4.2 Raw map



X



Y



Z

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

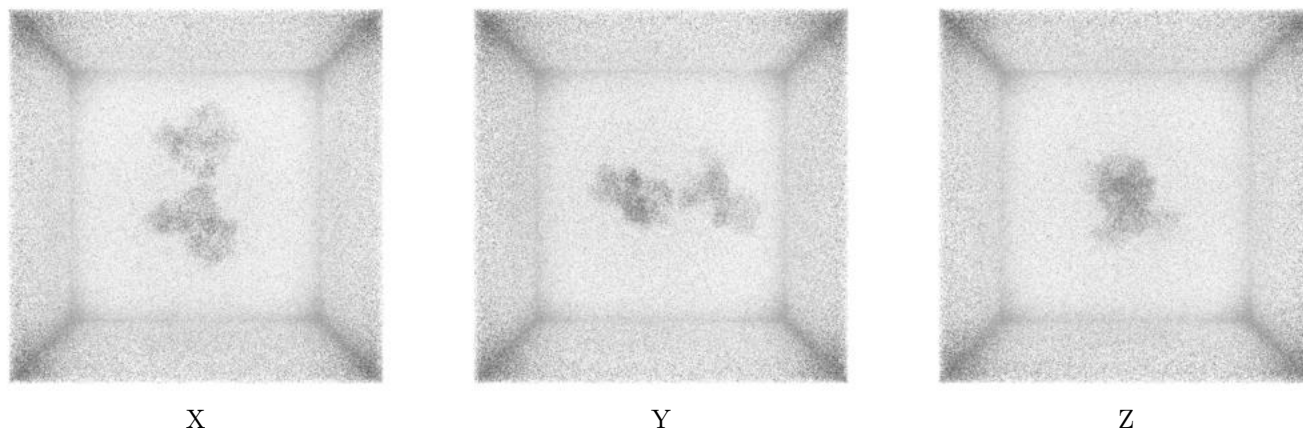
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.085. 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.

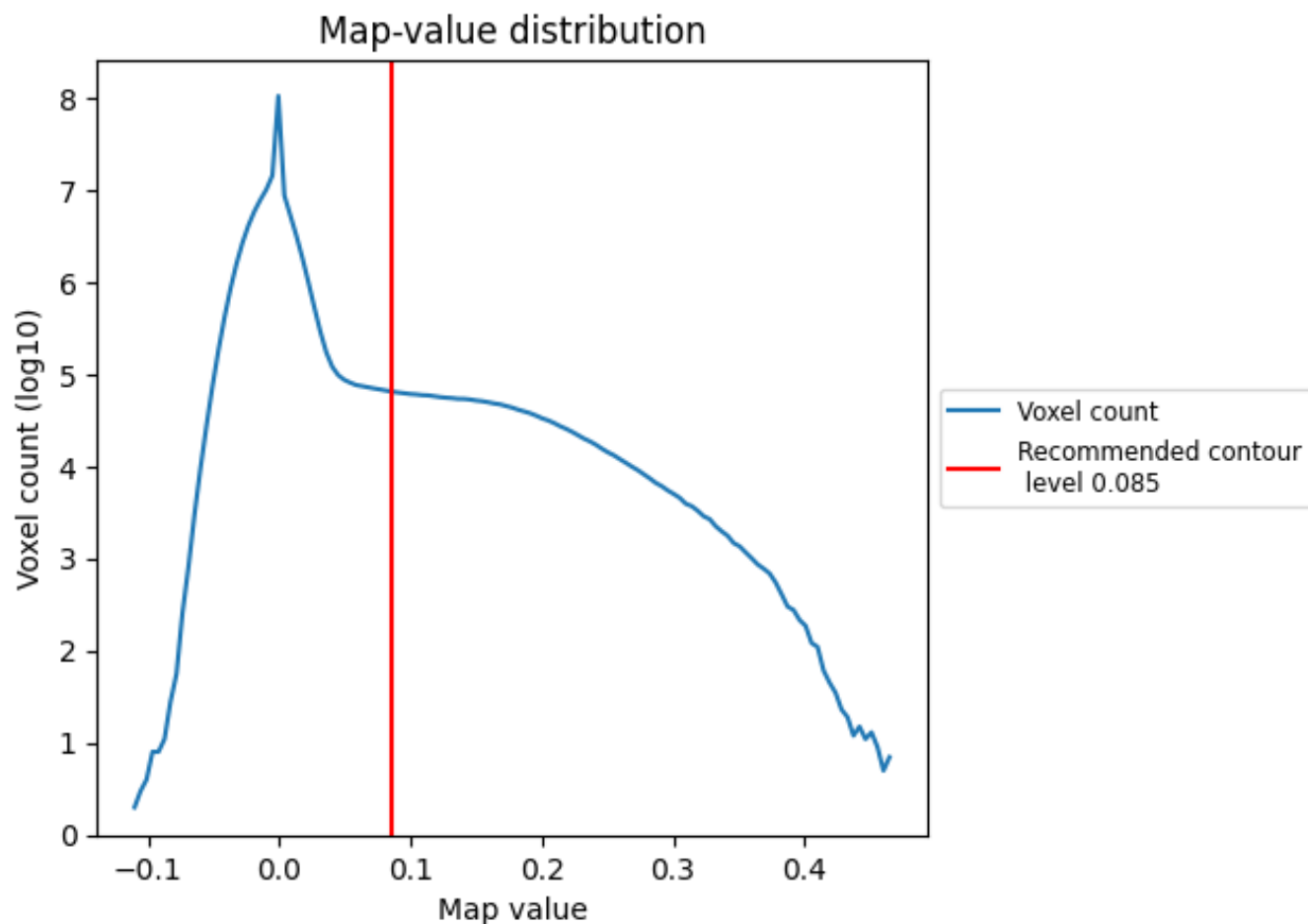
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

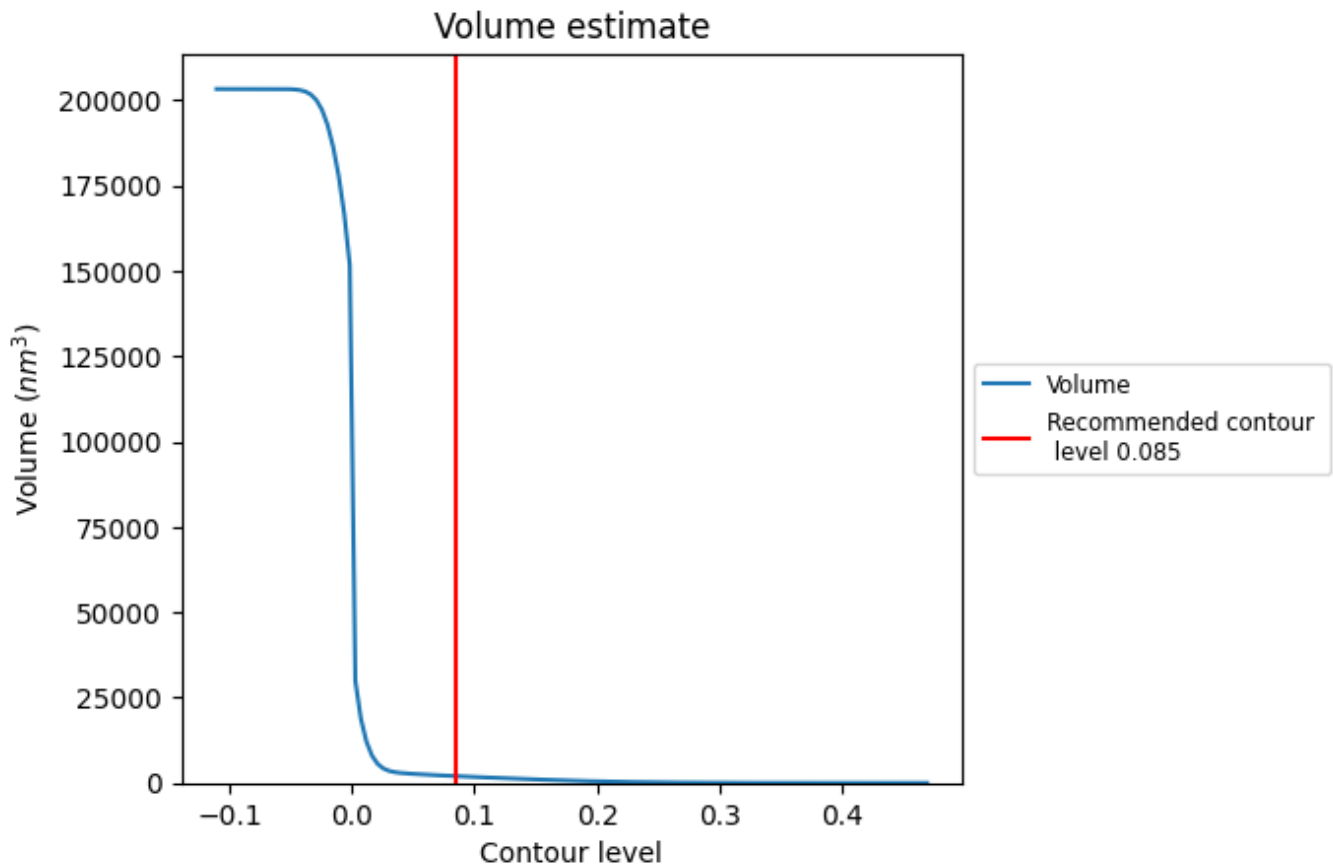
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

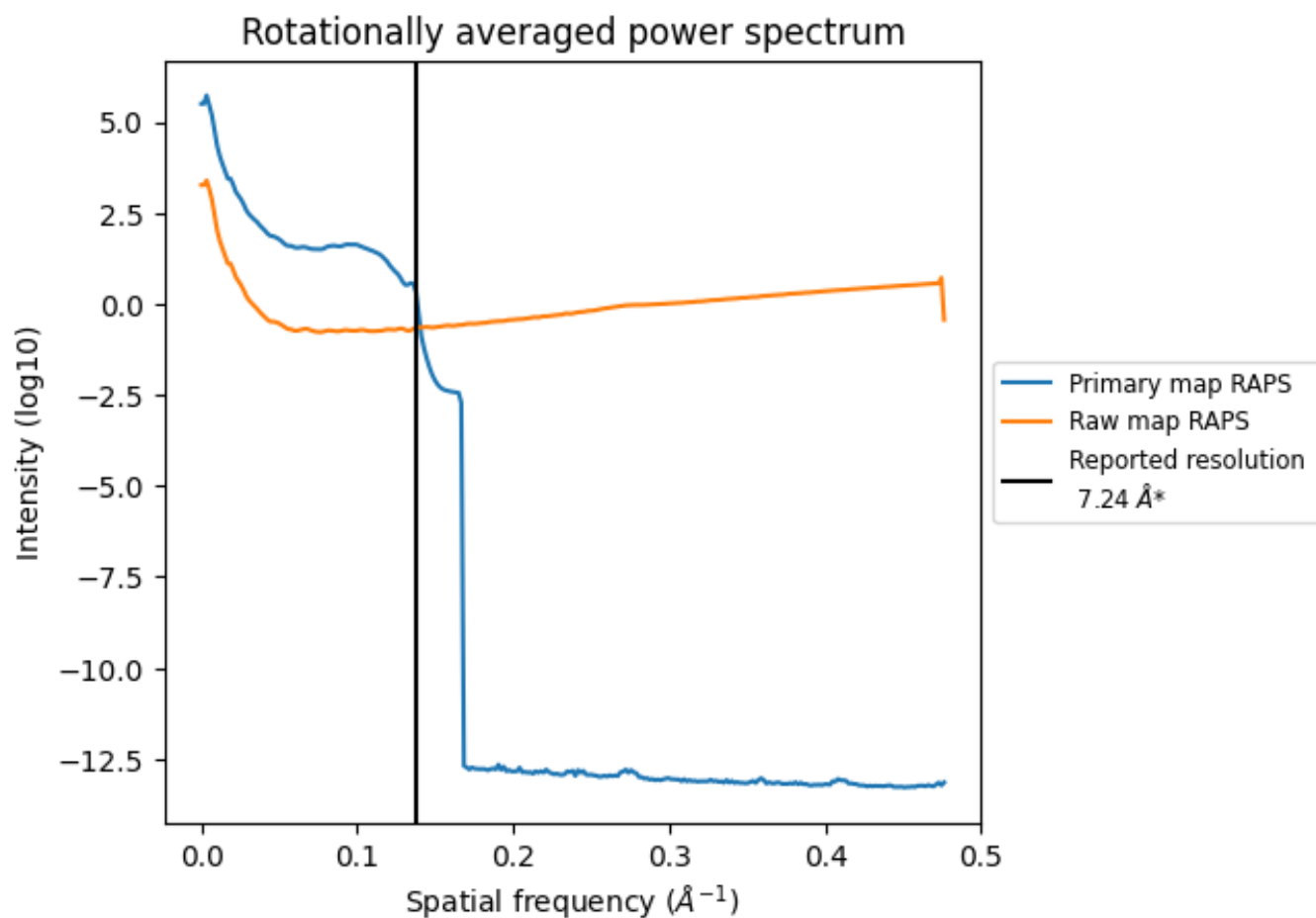
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1998 nm^3 ; this corresponds to an approximate mass of 1805 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](#)

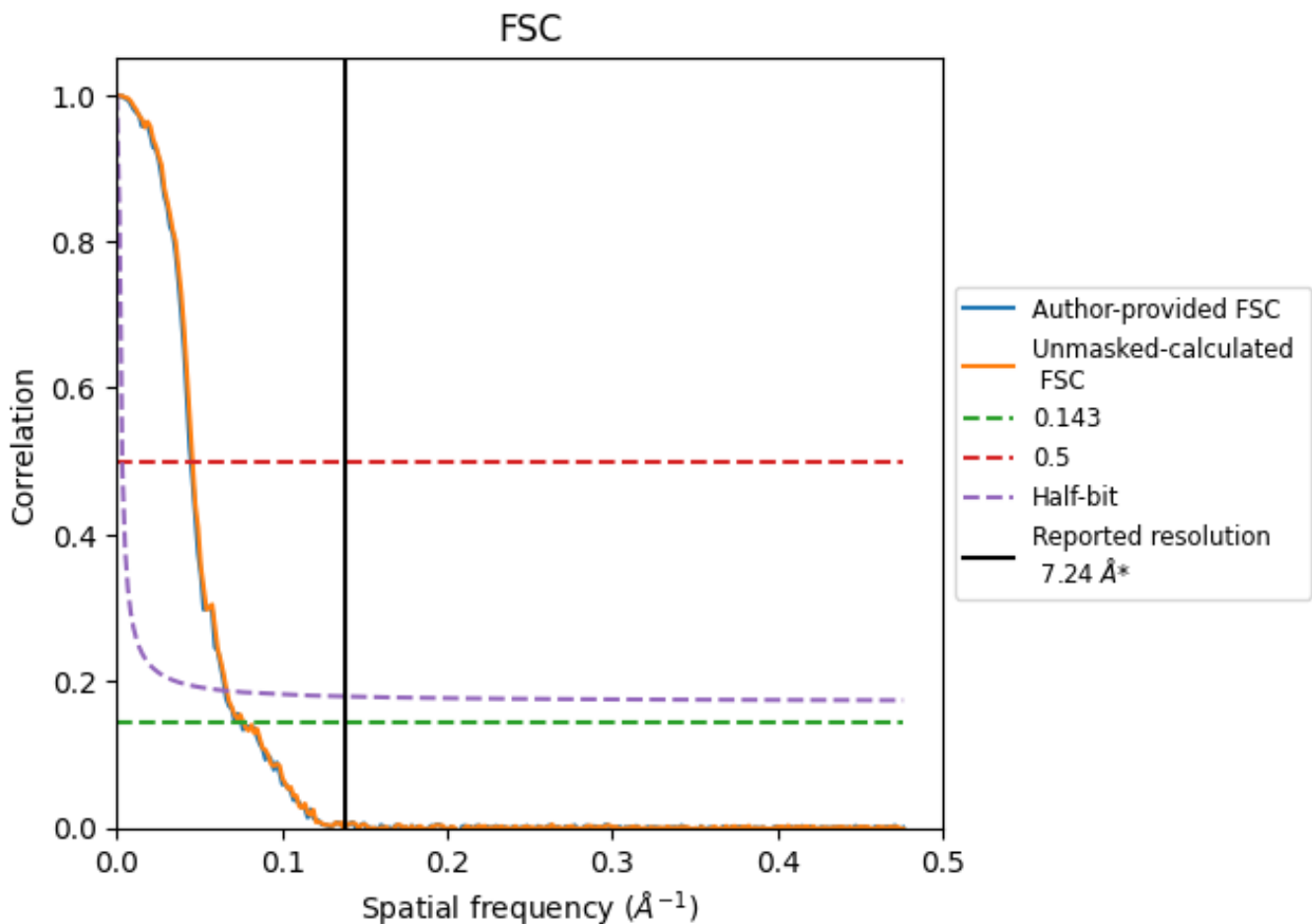


*Reported resolution corresponds to spatial frequency of 0.138 Å⁻¹

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 0.138 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.24	-	-
Author-provided FSC curve	13.23	22.27	15.24
Unmasked-calculated*	13.02	21.74	14.99

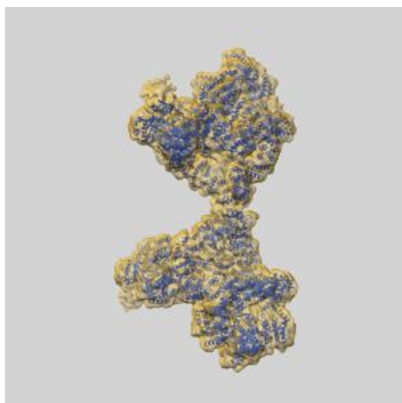
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 13.23 differs from the reported value 7.24 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 13.02 differs from the reported value 7.24 by more than 10 %

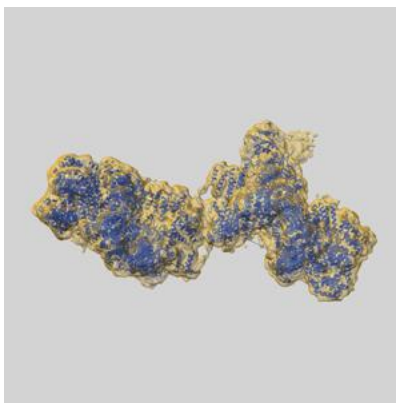
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-11219 and PDB model 6ZHE. Per-residue inclusion information can be found in section 3 on page 6.

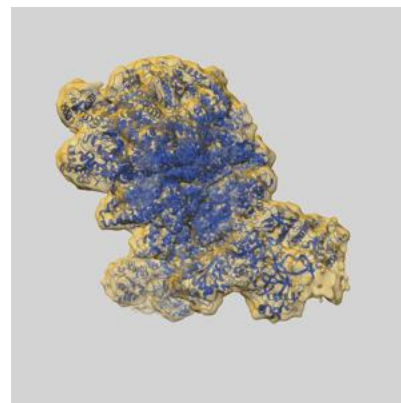
9.1 Map-model overlay [i](#)



X



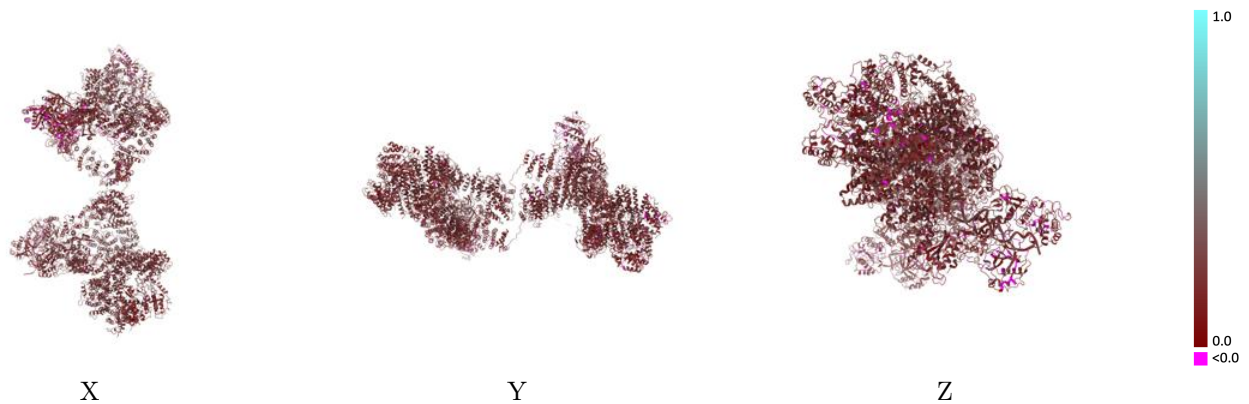
Y



Z

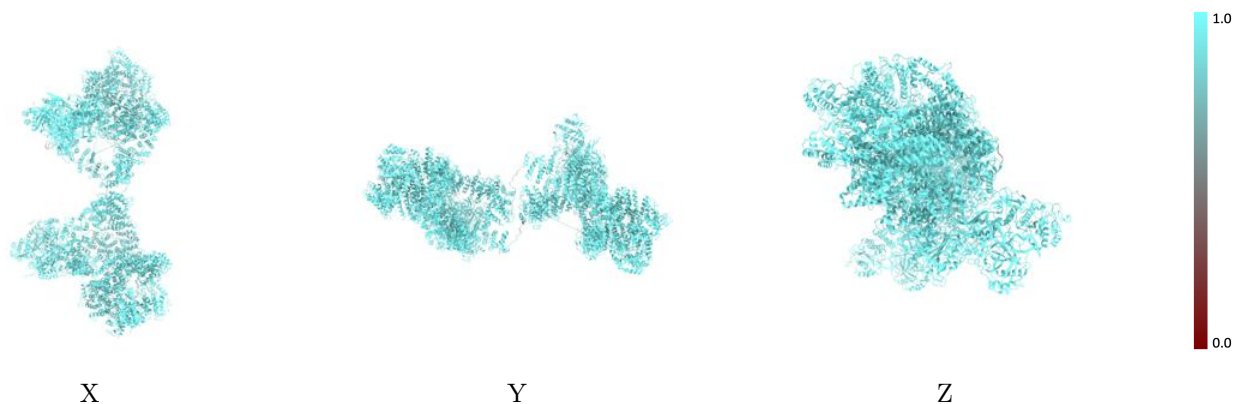
The images above show the 3D surface view of the map at the recommended contour level 0.085 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



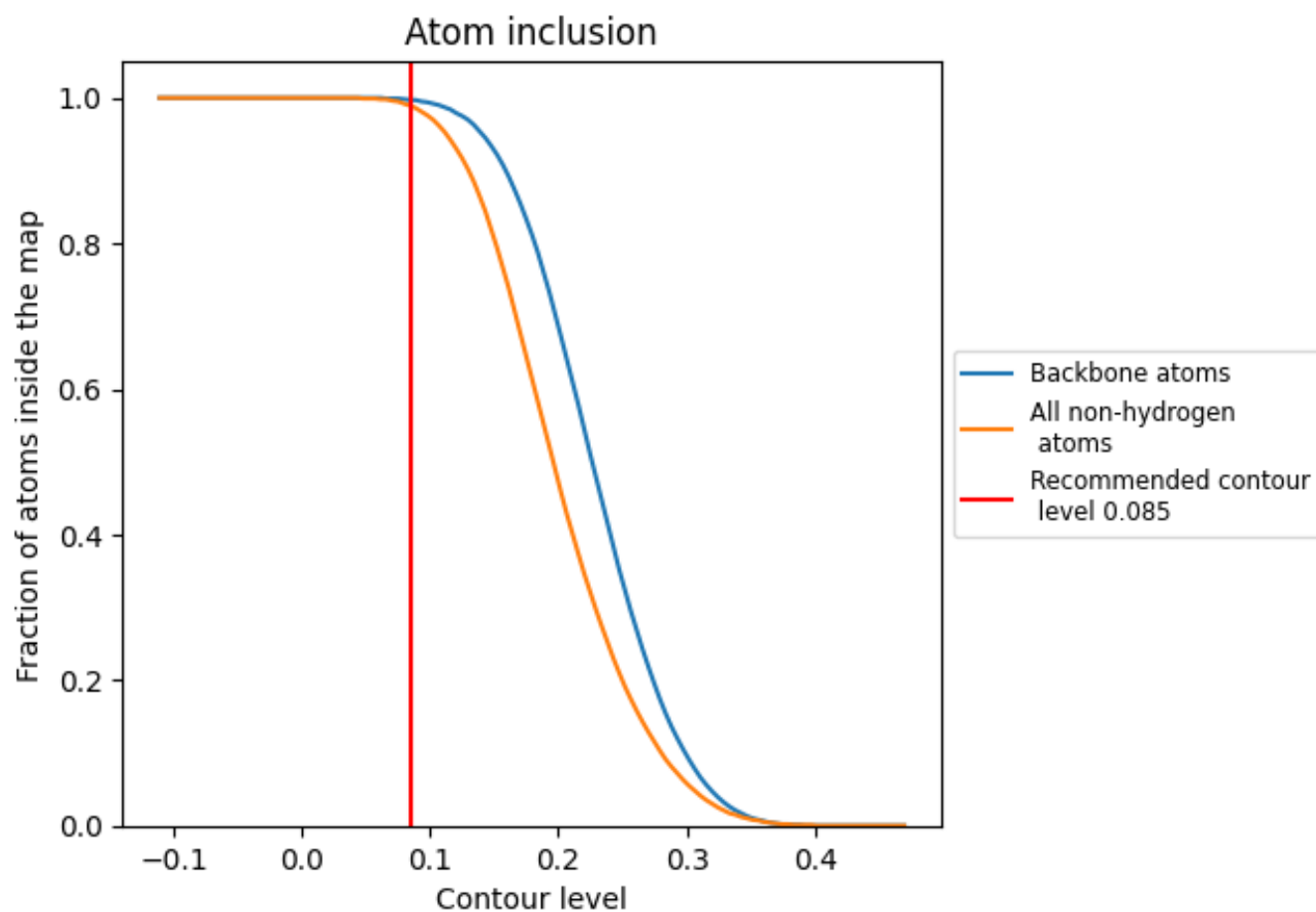
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.085).























9.4 Atom inclusion [i](#)



At the recommended contour level, 100% of all backbone atoms, 99% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.085) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9890	 0.1950
A	 0.9910	 0.2070
B	 0.9950	 0.1870
C	 0.9840	 0.1740
D	 1.0000	 0.2510
E	 1.0000	 0.2500
F	 0.9890	 0.1970
G	 0.9900	 0.1600
H	 0.9730	 0.1600
I	 1.0000	 0.2540
J	 1.0000	 0.2430

