



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 05:28 AM UTC

PDB ID : 4AV2 / pdb_00004av2
EMDB ID : EMD-2105
Title : Single particle electron microscopy of PilQ dodecameric complexes from *Neisseria meningitidis*.
Authors : Berry, J.L.; Phelan, M.M.; Collins, R.F.; Adomavicius, T.; Tonjum, T.; Frye, S.A.; Bird, L.; Owens, R.; Ford, R.C.; Lian, L.Y.; Derrick, J.P.
Deposited on : 2012-05-23
Resolution : 26.00 Å(reported)

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

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A user guide is available at

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

The types of validation reports are described at

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

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

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

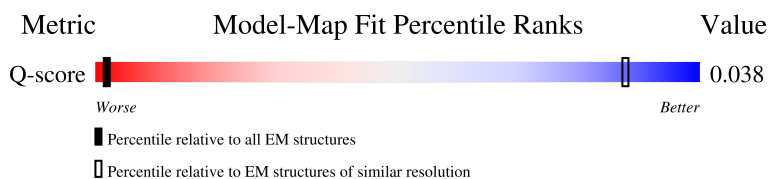
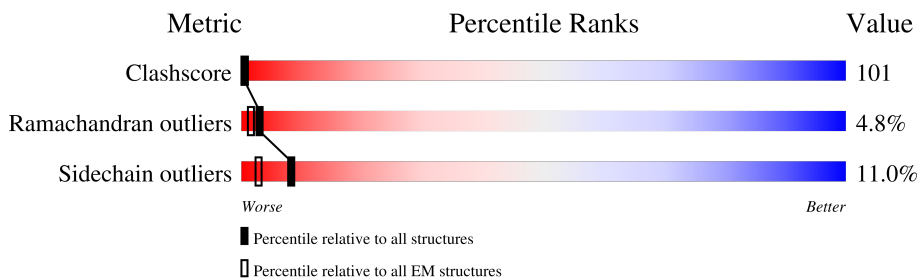
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 26.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	8 (26.00 - 26.50)

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	745	
1	B	745	
1	C	745	
1	D	745	

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Mol	Chain	Length	Quality of chain
1	E	745	
1	F	745	
1	G	745	
1	H	745	
1	I	745	
1	J	745	
1	K	745	
1	L	745	
2	M	181	
2	N	181	
2	O	181	
2	P	181	
2	Q	181	
2	R	181	
2	S	181	
2	T	181	
2	U	181	
2	V	181	
2	W	181	
2	X	181	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 34704 atoms, of which 1152 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 TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	B	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	C	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	D	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	E	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	F	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	G	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	H	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	I	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	J	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	K	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	L	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	428	PHE	LEU	variant	UNP Q70M91
B	428	PHE	LEU	variant	UNP Q70M91
C	428	PHE	LEU	variant	UNP Q70M91
D	428	PHE	LEU	variant	UNP Q70M91
E	428	PHE	LEU	variant	UNP Q70M91

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Chain	Residue	Modelled	Actual	Comment	Reference
F	428	PHE	LEU	variant	UNP Q70M91
G	428	PHE	LEU	variant	UNP Q70M91
H	428	PHE	LEU	variant	UNP Q70M91
I	428	PHE	LEU	variant	UNP Q70M91
J	428	PHE	LEU	variant	UNP Q70M91
K	428	PHE	LEU	variant	UNP Q70M91
L	428	PHE	LEU	variant	UNP Q70M91

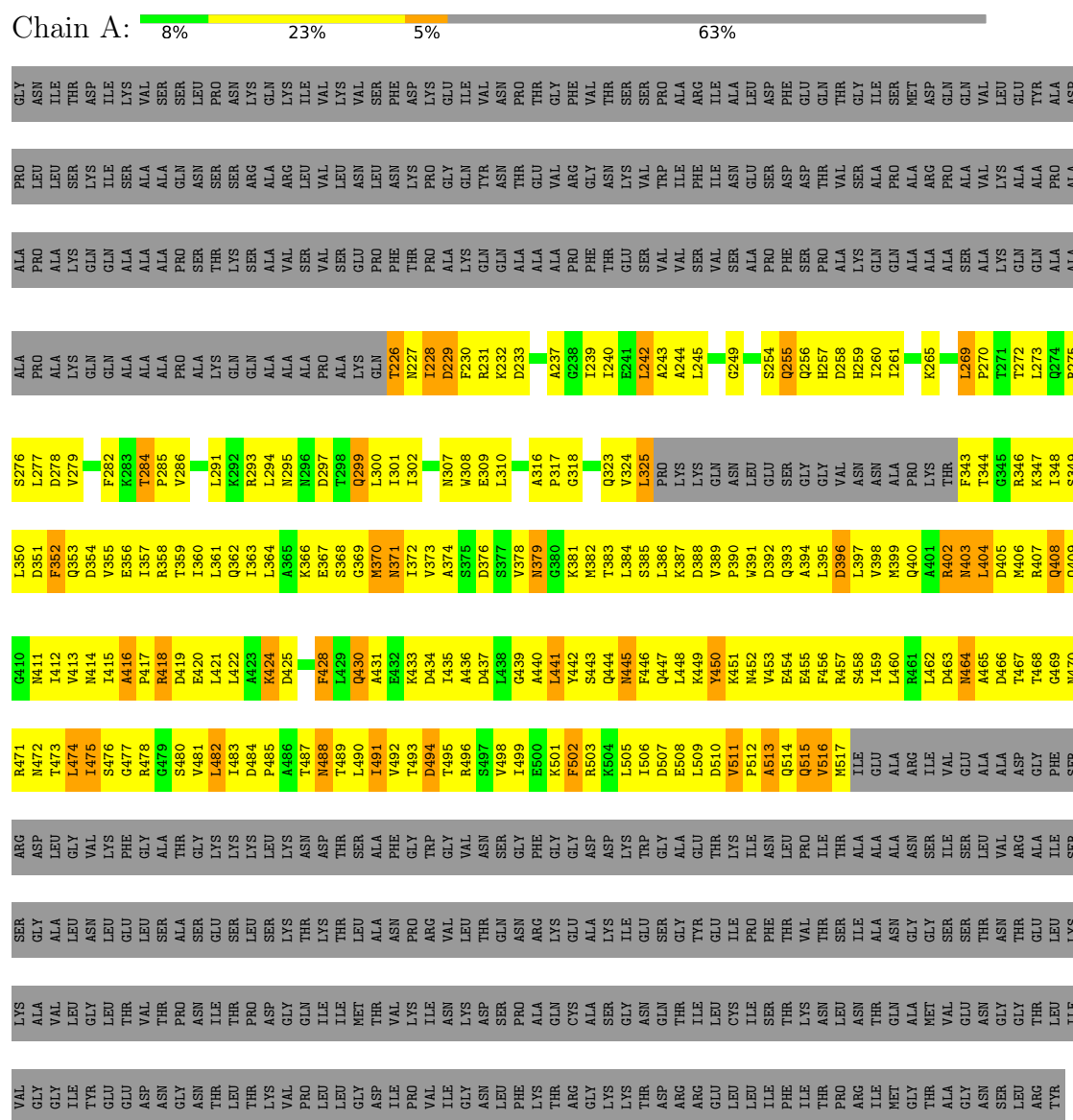
- Molecule 2 is a protein called PILP PROTEIN.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	M	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	N	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	O	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	P	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	Q	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	R	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	S	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	T	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	U	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	V	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	W	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	X	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		

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: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ



• Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

VAL	GLY	ALA	VAL	LYS	SER	ARG	R471	R410	L350	S276	ALA	ALA	PRO	ALA	PRO	GLY
GLY	ALA	VAL	ALA	GLY	GLY	ASP	R472	N411	D351	L277	PRO	PRO	ALA	PRO	ALA	ASN
ILE	GLY	ALA	LEU	ALA	LEU	LEU	T473	T412	F352	D278	ALA	ALA	ILE	ALA	ILE	THR
THR	LEU	ASN	VAL	ASN	VAL	VAL	L474	V413	D353	V279	GLN	GLN	GLN	GLN	ASP	THR
LEU	LEU	LEU	LEU	LEU	LEU	PHE	S476	T415	V355	F282	GLN	GLN	GLN	ILE	ILE	ILE
THR	THR	THR	THR	THR	GLU	GLY	R477	A416	E356	K283	ALA	ALA	ALA	SER	ALA	VAL
VAL	VAL	VAL	VAL	VAL	LEU	GLY	G479	R417	I357	T284	ALA	ALA	ALA	ALA	ALA	LYS
ASN	ASN	THR	THR	THR	SER	ALA	S480	R418	R358	P285	ALA	ALA	ALA	SER	SER	ASN
ASN	ASN	THR	THR	THR	SER	GLY	V481	D419	T359	V286	PRO	PRO	PRO	GLN	GLN	SER
THR	THR	THR	THR	THR	SER	GLY	L482	E420	I360	ALA	ALA	ALA	ALA	ASN	ASN	LEU
ILE	ILE	ILE	ILE	ILE	GLU	LYS	F482	L421	L361	L291	LYS	LYS	LYS	SER	PRO	PRO
THR	THR	THR	THR	THR	SER	LYS	L483	L422	Q362	K292	GLN	GLN	GLN	SER	ASN	ASN
THR	THR	THR	THR	THR	SER	LYS	D484	A423	L363	R293	GLN	GLN	GLN	ARG	LYS	LYS
ASP	ASP	ASP	ASP	ASP	SER	LEU	P485	K424	L364	L294	ALA	ALA	ALA	ALA	ALA	GLN
VAL	VAL	VAL	VAL	VAL	GLY	LYS	A486	D425	A365	N295	ALA	ALA	ALA	VAL	LEU	LYS
GLN	GLN	GLN	GLN	GLN	THR	ASN	T487	F426	K366	N296	ALA	ALA	ALA	ARG	LEU	ILE
LEU	LEU	LEU	LEU	LEU	LYS	ASP	N488	L429	E367	D297	VAL	VAL	VAL	VAL	VAL	VAL
LEU	LEU	LEU	LEU	LEU	THR	THR	T489	L429	E367	D297	VAL	VAL	VAL	VAL	VAL	VAL
GLY	GLY	GLY	GLY	GLY	THR	SER	L490	Q430	S368	T298	ALA	ALA	ALA	SER	LEU	VAL
ASP	ASP	ASP	ASP	ASP	THR	ALA	A491	A431	G369	Q299	LYS	LYS	LYS	GLU	ASN	VAL
ILE	ILE	ILE	ILE	ILE	ALA	PHE	V492	E432	N370	L300	GLN	GLN	GLN	PRO	LEU	VAL
PRO	PRO	PRO	PRO	PRO	ASN	THR	T493	A433	N371	I301	THR	THR	THR	ASN	ASN	PHE
VAL	VAL	VAL	VAL	VAL	THR	GLY	T493	K433	I372	I302	LYS	LYS	LYS	LYS	ASP	THR
THR	THR	THR	THR	THR	ARG	THR	D494	D434	V373	I302	PRO	PRO	PRO	PRO	LYS	LYS
ILE	ILE	ILE	ILE	ILE	VAL	GLY	T495	L435	A374	N307	ALA	ALA	ALA	GLY	GLY	GLU
GLN	GLN	GLN	GLN	GLN	VAL	VAL	R496	A436	S375	W308	ILE	ILE	ILE	GLN	ILE	THR
ASN	ASN	ASN	ASN	ASN	THR	ASN	S497	D437	D376	E309	GLN	GLN	GLN	TYR	VAL	VAL
LEU	LEU	LEU	LEU	LEU	GLN	SER	V498	L438	S377	L310	ASN	ASN	ASN	ASN	ASN	ASN
PHE	PHE	PHE	PHE	PHE	ASN	GLY	T499	G439	V378	L310	ALA	ALA	ALA	THR	PRO	PRO
LYS	LYS	LYS	LYS	LYS	ARG	PHE	F500	A440	N379	A316	ALA	ALA	ALA	GLU	GLU	THR
THR	THR	THR	THR	THR	LYS	GLY	K501	L441	G380	P317	ALA	ALA	ALA	VAL	VAL	THR
ARG	ARG	ARG	ARG	ARG	GLY	GLY	F502	T442	K381	G318	PHE	PHE	PHE	ARG	ARG	PHE
GLY	GLY	GLY	GLY	GLY	ALA	ASP	R503	S443	N382	T239	THR	THR	THR	GLY	GLY	VAL
LYS	LYS	LYS	LYS	LYS	ASP	ASP	K504	Q444	T383	Q323	ILE	ILE	ILE	ASN	ASN	THR
ILE	ILE	ILE	ILE	ILE	LYS	LYS	L505	N445	L384	V324						

Chain C: 8% 23% 5% 63%

[illegible]

VAL	GLY	GLY	ILE	TYR	GLU	GLU	ASP	ASN	GLY	ASN	THR	THR	THR	LYS	VAL	PRO	LEU	LEU	GLY	ASP	ILE	PRO	VAL	ILE	GLY	ASN	PHE	LEU	PHE	LYS	THR	THR	ASP	ARG	ARG	GLU	LEU	LEU	ILE	ILE	PHE	THR	PRO	ARG	ILE	MET	GLY	THR	THR	GLY	ALA	ASN	ASN	LEU	LEU	ARG	TYR
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● Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

Chain E:  8% 23% 5% 63%

PRO LEU SER LYS ILE SER ALA ALA GLN ASN SER SER ARG ARG LEU VAL LEU ASN LEU LYS PRO GLN TYR THR GLU VAL ARG GLY ASN LYS VAL TRP TLE PHE TLE ASN GLU SER ASP ASP THR VAL SER ALA PRO PRO ALA ARG PRO ALA ALA VAL LYS ALA ALA ALA

[illegible][illegible]

S276	L277	D278	V279		F282	K283	T284	P285	V286		L291	K292	R293	L294	N295	N296	D297	T298	L299	I300	I301	I302		N307	W308	E309	L310		A316	P317	G318		K323	V324	L325	P380	L381	L382	G383	L384	ASN	LEU	GLU	SER	GLY	GLY	VAL	ASN	ASN	ALA	P380	L381	L382	THR	F343	T344	G345	R346	K347	I348	G349
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L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400
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G410	G411	I412	V413	N414	I415	A416	P417	R418	D419	E420	L421	A422	L423	A424	D425		F428	L429	Q430	A431	F432	K433	D434	I435	A436	D437	L438	Q439	L441	F442	S443	Q444	N445	F446	Q447	L448	K449	Y450	K451	N452	F453	E454	F455	F456	R457	S458	I459	L460	R461	L462	D463	N464	A465	D466	T467	T468	G469	N470
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R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000
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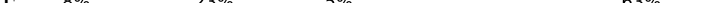
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SER GLY ALA ALA ASN LEU LEU LEU LEU SER ALA SER GLU GLU LEU LEU SER LYS THR THR LYS THR LEU ALA LEU ASN ARG VAL LEU LEU THR GLN ASN ARG ASN LYS GLU ALA LYS ILE ILE LEU GLU SER SER GLY TYR GLU GLU ILE ILE PRO PRO PHE THR THR VAL THR SER THR ILE ALA ALA ASN GLY GLY SER SER THR ASN THR THR GLU LEU LYS

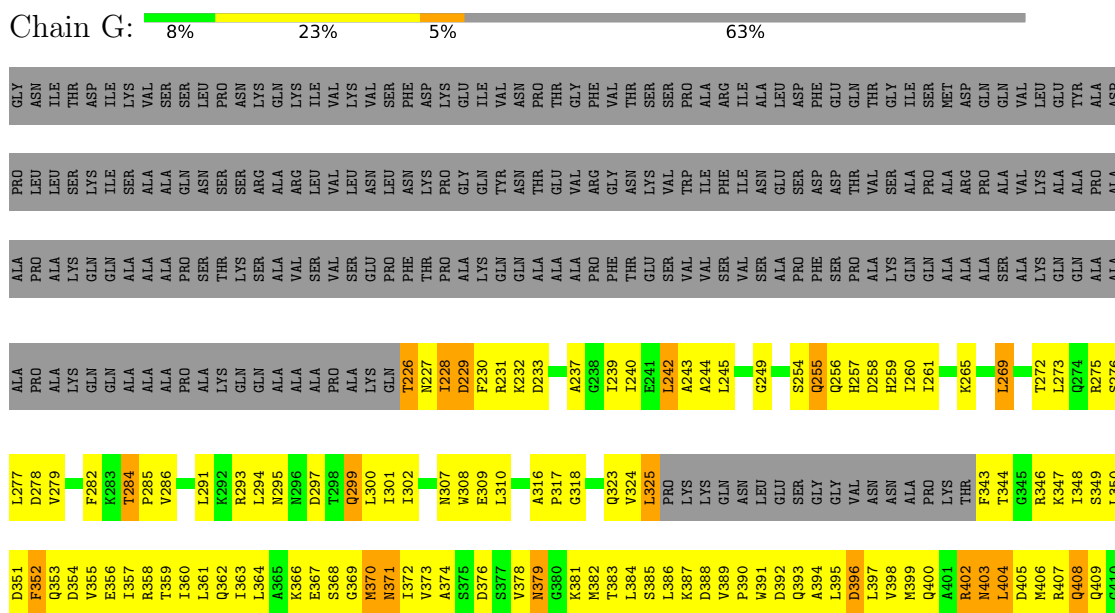
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VAL	GLY	GLY	ILE	TYR	GLU	GLU	ASP	ASN	ASN	GLY	ASN	THR	THR	LEU	LEU	LYS	VAL	PRO	PRO	ILE	ASP	GLY	ASP	ASN	ASN	THR	THR	ARG	GLY	LYS	LYS	THR	THR	ASP	ASP	ARG	ARG	ARG	GLU	GLU	LEU	LEU	ILE	ILE	PHE	ILE	LEU	GLY	GLY	ALA	THR	THR	GLY	GLY	ASN	ASN	SER	SER	LEU	LEU	ARG	ARG	THR	THR
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- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

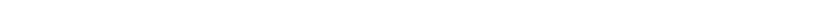
Chain F:  8% 23% 5% 63%

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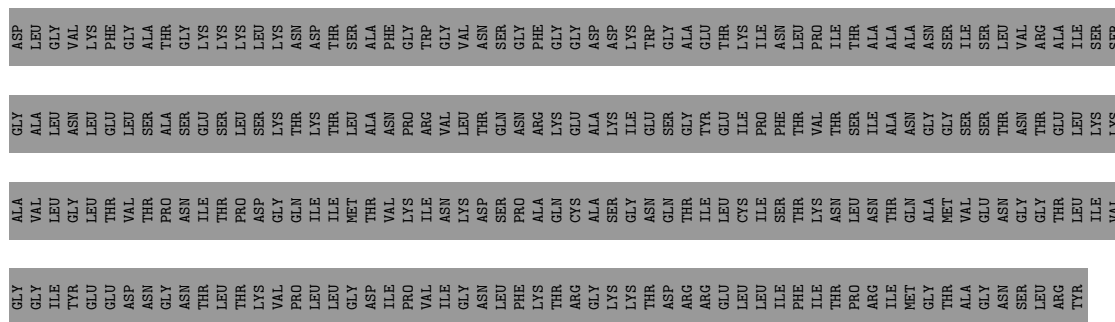


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VAL	VAL	ALA	GLY	T473	I412
GLY	GLY	LEU	LEU	L474	V413
GLY	GLY	ASN	VAL	I475	M414
GLU	THR	LEU	LYS	S476	I415
THR	THR	GLU	PHE	G477	I416
VAL	THR	LEU	GLY	R478	P417
ASP	VAL	SER	ALA	G479	R418
ASN	GLY	THR	ALA	S480	D419
GLY	PRO	ALA	THR	V481	E420
THR	THR	GLY	GLY	L482	L421
THR	ILE	GLU	LYS	L483	L422
LEU	THR	GLU	LYS	D484	A423
THR	PRO	LEU	LYS	P485	A424
LYS	VAL	SER	LYS	A486	D425
VAL	GLY	SER	LYS	T487	
GLN	GLN	THR	ASN	L488	F428
PRO	ILE	LYS	ASP	R489	L429
LEU	ILE	THR	THR	T489	Q430
LEU	THR	LEU	SER	L490	Q431
GLY	THR	ALA	ALA	A491	A431
ASP	ASP	ALA	PHE	V492	E432
ILE	VAL	ASN	GLY	T493	K433
PRO	THR	LYS	PRO	L494	D434
VAL	ILE	ARG	TRP	D494	D435
ILE	ASN	VAL	GLY	T495	I435
ILE	LYS	LEU	VAL	R496	A436
GLY	LYS	THR	VAL	S497	D437
ASN	THR	THR	ASN	V498	L438
LEU	SER	GLN	SER	L499	G439
ASN	PRO	ASN	GLY	F500	A440
LYS	ALA	ARG	PHE	E501	L441
THR	GLN	LYS	GLY	K501	L442
THR	CYS	GLU	GLY	F502	F443
ARG	GLY	ALA	ASP	R503	S443
GLY	ALA	ALA	ASP	K504	Q444
LYS	LYS	LYS	ASP	L505	M445
LYS	GLY	ILE	LYS	I506	F446
THR	ASN	GLU	TRP	I507	Q447
ASP	GLN	SER	GLY	D507	L448
ARG	THR	GLY	ALA	E508	K449
THR	THR	GLY	GLU	L509	D510
ARG	ILE	GLU	THR	D510	Y450
GLU	THR	CYS	LYS	V511	K451
LEU	ILE	ILE	ILE	P512	M452
LEU	THR	THR	ASN	A513	V453
ILE	SER	PHE	ASN	Q514	E454
PHE	THR	THR	LEU	Q515	E455
ILE	LYS	VAL	PRO	V516	F456
THR	THR	THR	ILE	M517	R457
PRO	LEU	SER	THR	ILE	S458
THR	ASN	THR	ALA	GLU	I459
ARG	THR	ALA	ALA	GLU	L460
ILE	GLN	ASN	ALA	ASP	R461
ILE	GLY	GLY	ASN	ARG	L462
THR	ALA	GLY	SER	ILE	D463
GLY	VAL	VAL	ILE	VAL	M464
ALA	GLY	SER	SER	GLU	A465
GLY	GLU	THR	LEU	ALA	D466
ASN	ASN	THR	VAL	VAL	T467
ASN	GLY	THR	VAL	ASP	G468
SER	GLY	THR	ARG	GLY	P469
THR	THR	GLU	ALA	PHE	M470
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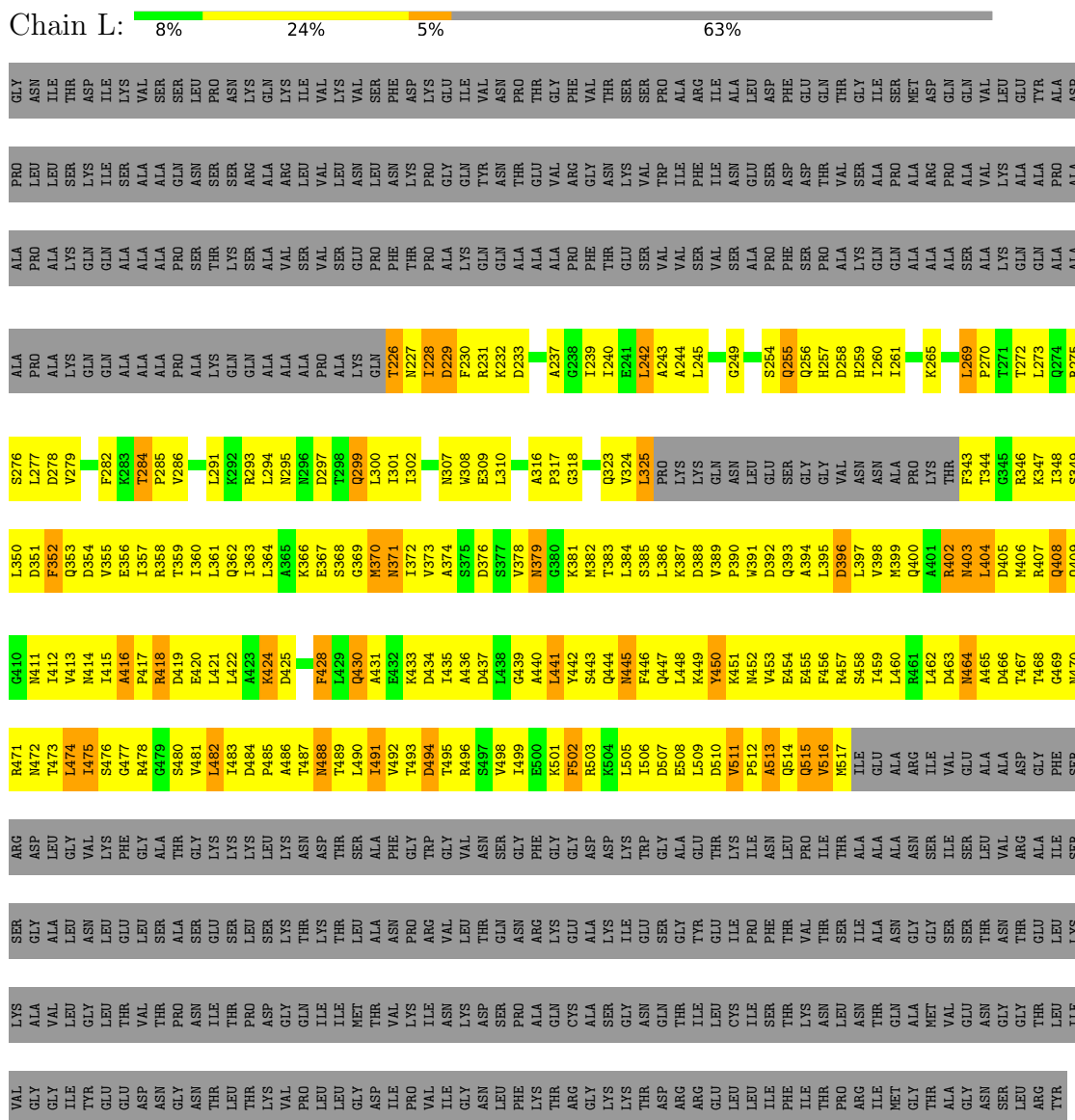
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Chain H:  8% 23% 5% 63%

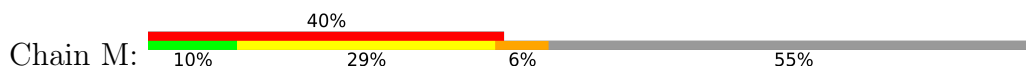
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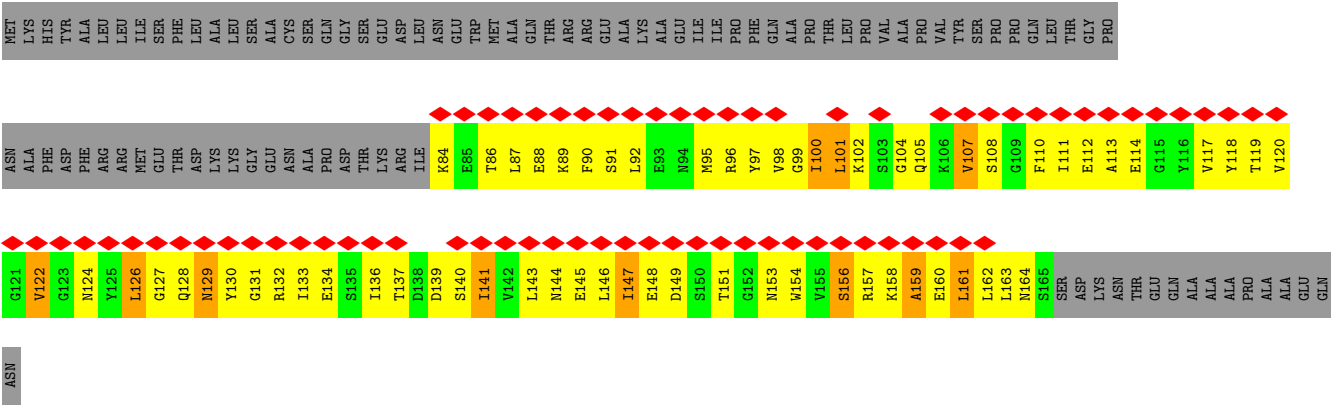


- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

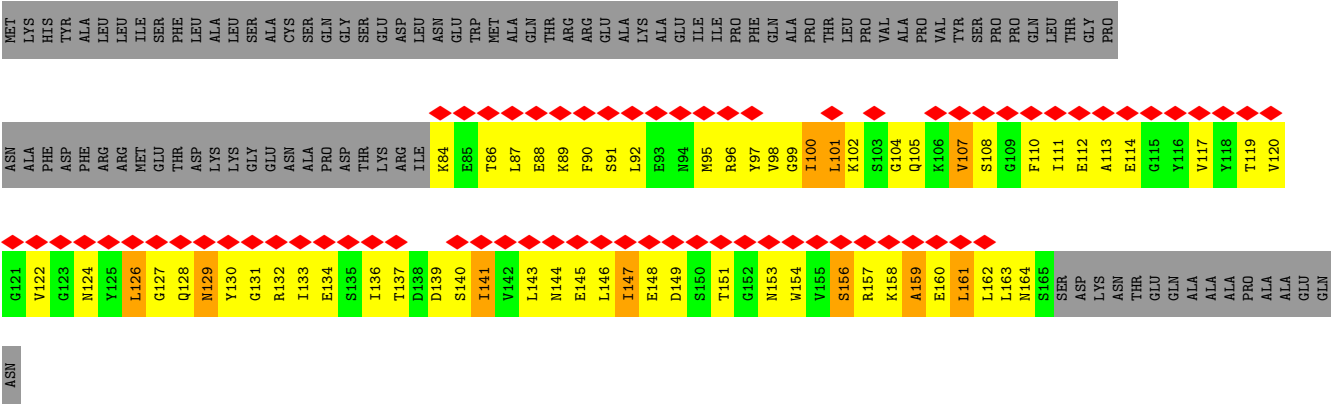
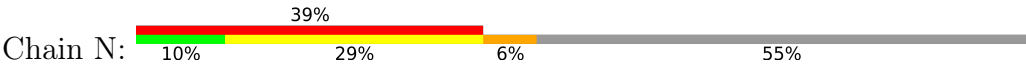


- Molecule 2: PILP PROTEIN

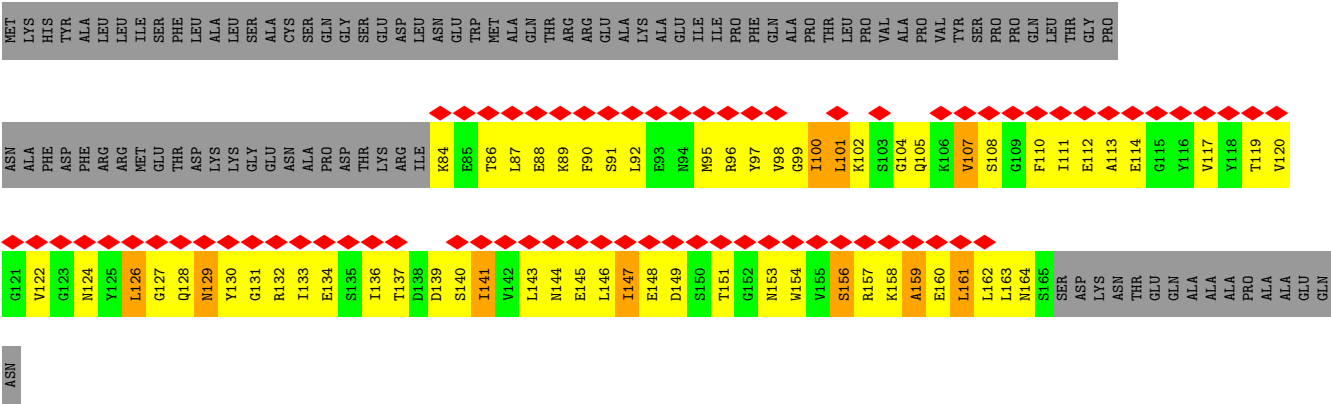
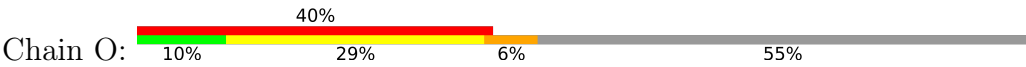




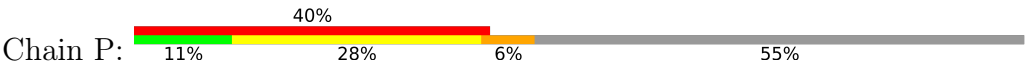
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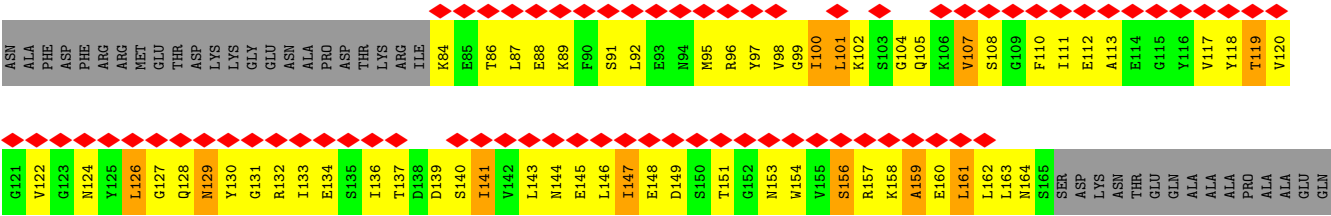


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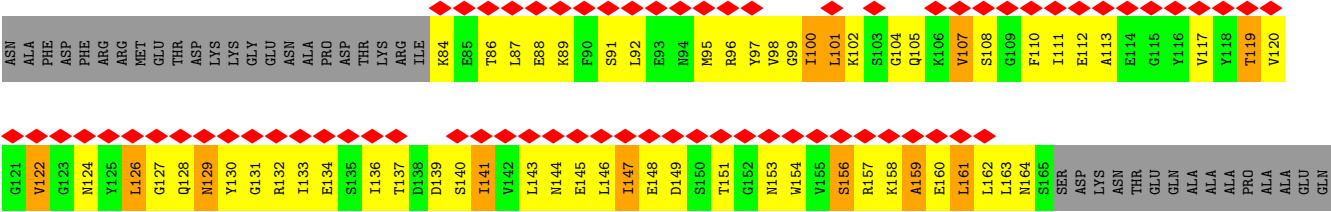
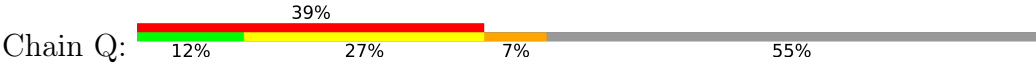
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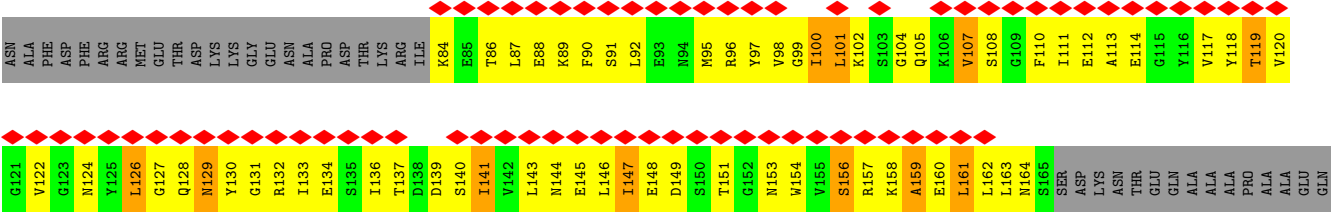
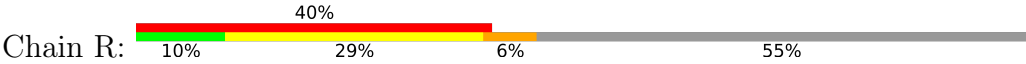
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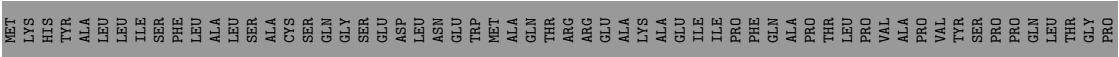
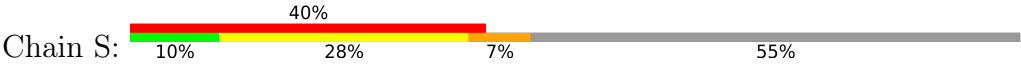
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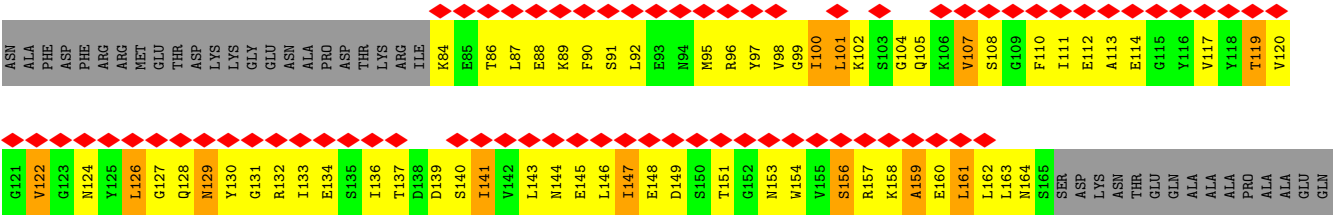
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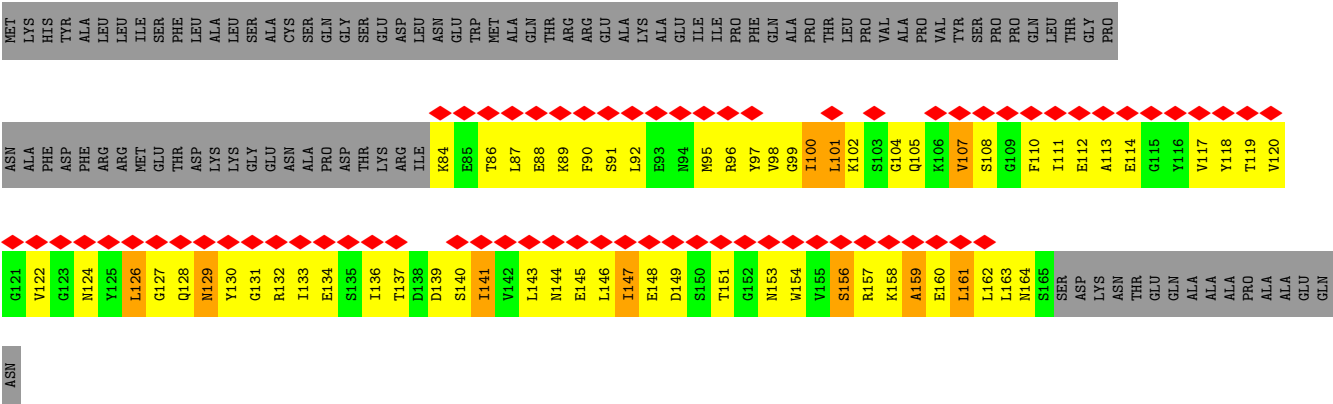
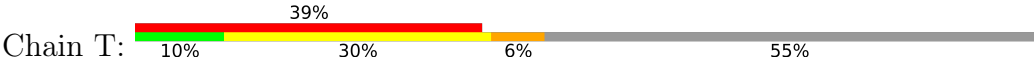
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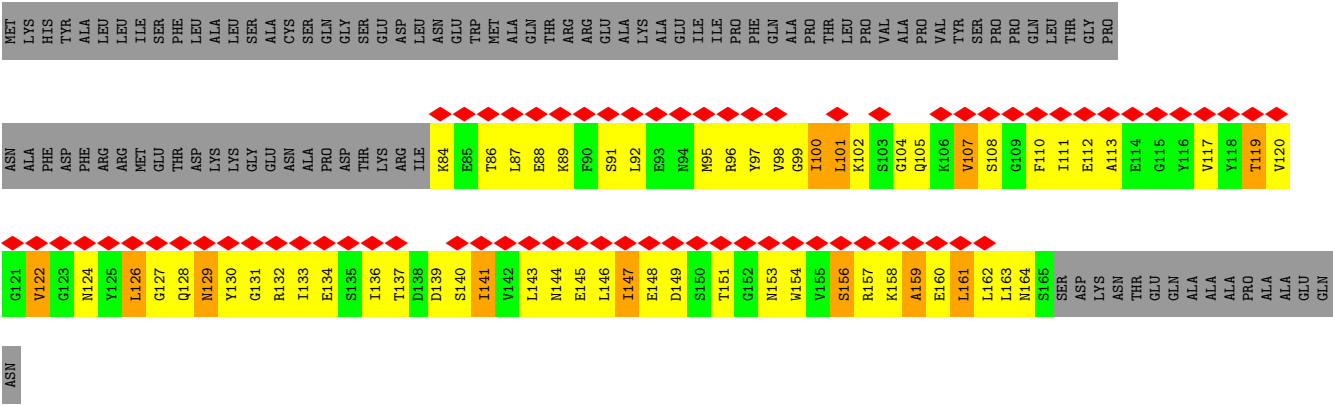
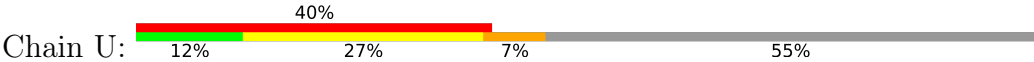




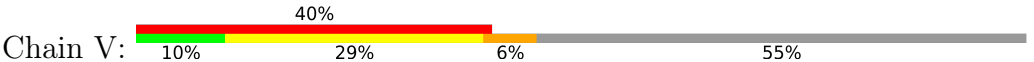
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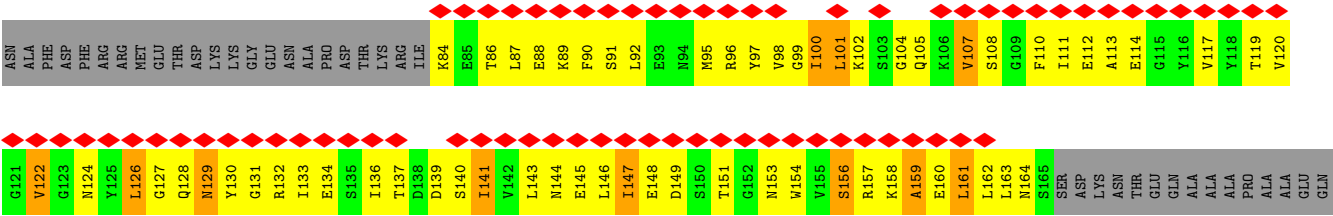


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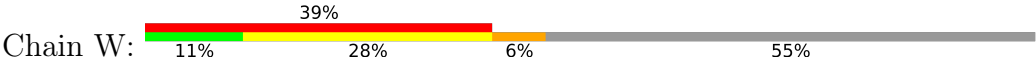
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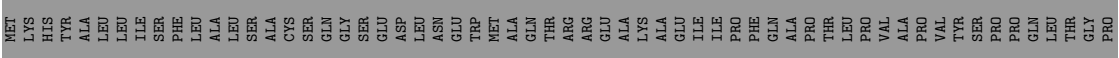
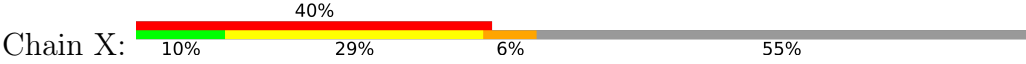
ASN

• Molecule 2: PILP PROTEIN



ASN

• Molecule 2: PILP PROTEIN



ASN

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C12	Depositor
Number of particles used	25303	Depositor
Resolution determination method	Not provided	
CTF correction method	CTFFIT EACH MICROGRAPH	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	4	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	5100	Depositor
Magnification	33112	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	0.346	Depositor
Minimum map value	-0.113	Depositor
Average map value	0.095	Depositor
Map value standard deviation	0.065	Depositor
Recommended contour level	0.28	Depositor
Map size ($\text{\AA}$)	289.92, 289.92, 289.92	wwPDB
Map dimensions	64, 64, 64	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	4.53, 4.53, 4.53	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	B	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	C	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	D	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	E	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	F	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	G	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	H	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	I	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	J	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	K	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
1	L	1.14	1/2179 (0.0%)	1.60	24/2950 (0.8%)
2	M	0.28	0/652	0.64	0/878
2	N	0.28	0/652	0.64	0/878
2	O	0.28	0/652	0.64	0/878
2	P	0.28	0/652	0.64	0/878
2	Q	0.28	0/652	0.64	0/878
2	R	0.28	0/652	0.64	0/878
2	S	0.28	0/652	0.64	0/878
2	T	0.28	0/652	0.64	0/878
2	U	0.28	0/652	0.64	0/878
2	V	0.28	0/652	0.64	0/878
2	W	0.28	0/652	0.64	0/878
2	X	0.28	0/652	0.64	0/878
All	All	1.01	12/33972 (0.0%)	1.44	288/45936 (0.6%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	511	VAL	CA-CB	-6.48	1.50	1.54
1	F	511	VAL	CA-CB	-6.48	1.50	1.54
1	I	511	VAL	CA-CB	-6.48	1.50	1.54
1	L	511	VAL	CA-CB	-6.48	1.50	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	511	VAL	CA-CB	-6.39	1.50	1.54
1	D	511	VAL	CA-CB	-6.39	1.50	1.54
1	G	511	VAL	CA-CB	-6.39	1.50	1.54
1	J	511	VAL	CA-CB	-6.39	1.50	1.54
1	B	511	VAL	CA-CB	-6.36	1.50	1.54
1	E	511	VAL	CA-CB	-6.36	1.50	1.54
1	H	511	VAL	CA-CB	-6.36	1.50	1.54
1	K	511	VAL	CA-CB	-6.36	1.50	1.54

All (288) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	408	GLN	CG-CD-OE1	-38.08	44.65	120.80
1	D	408	GLN	CG-CD-OE1	-38.08	44.65	120.80
1	G	408	GLN	CG-CD-OE1	-38.08	44.65	120.80
1	J	408	GLN	CG-CD-OE1	-38.08	44.65	120.80
1	C	408	GLN	CG-CD-OE1	-38.07	44.66	120.80
1	F	408	GLN	CG-CD-OE1	-38.07	44.66	120.80
1	I	408	GLN	CG-CD-OE1	-38.07	44.66	120.80
1	L	408	GLN	CG-CD-OE1	-38.07	44.66	120.80
1	B	408	GLN	CG-CD-OE1	-38.06	44.67	120.80
1	E	408	GLN	CG-CD-OE1	-38.06	44.67	120.80
1	H	408	GLN	CG-CD-OE1	-38.06	44.67	120.80
1	K	408	GLN	CG-CD-OE1	-38.06	44.67	120.80
1	C	408	GLN	CG-CD-NE2	-15.43	93.25	116.40
1	F	408	GLN	CG-CD-NE2	-15.43	93.25	116.40
1	I	408	GLN	CG-CD-NE2	-15.43	93.25	116.40
1	L	408	GLN	CG-CD-NE2	-15.43	93.25	116.40
1	A	408	GLN	CG-CD-NE2	-15.42	93.28	116.40
1	D	408	GLN	CG-CD-NE2	-15.42	93.28	116.40
1	G	408	GLN	CG-CD-NE2	-15.42	93.28	116.40
1	J	408	GLN	CG-CD-NE2	-15.42	93.28	116.40
1	B	408	GLN	CG-CD-NE2	-15.40	93.29	116.40
1	E	408	GLN	CG-CD-NE2	-15.40	93.29	116.40
1	H	408	GLN	CG-CD-NE2	-15.40	93.29	116.40
1	K	408	GLN	CG-CD-NE2	-15.40	93.29	116.40
1	B	408	GLN	OE1-CD-NE2	15.37	137.97	122.60
1	E	408	GLN	OE1-CD-NE2	15.37	137.97	122.60
1	H	408	GLN	OE1-CD-NE2	15.37	137.97	122.60
1	K	408	GLN	OE1-CD-NE2	15.37	137.97	122.60
1	A	408	GLN	OE1-CD-NE2	15.32	137.92	122.60
1	D	408	GLN	OE1-CD-NE2	15.32	137.92	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	408	GLN	OE1-CD-NE2	15.32	137.92	122.60
1	J	408	GLN	OE1-CD-NE2	15.32	137.92	122.60
1	C	408	GLN	OE1-CD-NE2	15.31	137.91	122.60
1	F	408	GLN	OE1-CD-NE2	15.31	137.91	122.60
1	I	408	GLN	OE1-CD-NE2	15.31	137.91	122.60
1	L	408	GLN	OE1-CD-NE2	15.31	137.91	122.60
1	B	474	LEU	CA-C-N	-9.44	110.24	123.17
1	B	474	LEU	C-N-CA	-9.44	110.24	123.17
1	E	474	LEU	CA-C-N	-9.44	110.24	123.17
1	E	474	LEU	C-N-CA	-9.44	110.24	123.17
1	H	474	LEU	CA-C-N	-9.44	110.24	123.17
1	H	474	LEU	C-N-CA	-9.44	110.24	123.17
1	K	474	LEU	CA-C-N	-9.44	110.24	123.17
1	K	474	LEU	C-N-CA	-9.44	110.24	123.17
1	C	474	LEU	CA-C-N	-9.41	110.27	123.17
1	C	474	LEU	C-N-CA	-9.41	110.27	123.17
1	F	474	LEU	CA-C-N	-9.41	110.27	123.17
1	F	474	LEU	C-N-CA	-9.41	110.27	123.17
1	I	474	LEU	CA-C-N	-9.41	110.27	123.17
1	I	474	LEU	C-N-CA	-9.41	110.27	123.17
1	L	474	LEU	CA-C-N	-9.41	110.27	123.17
1	L	474	LEU	C-N-CA	-9.41	110.27	123.17
1	A	474	LEU	CA-C-N	-9.40	110.29	123.17
1	A	474	LEU	C-N-CA	-9.40	110.29	123.17
1	D	474	LEU	CA-C-N	-9.40	110.29	123.17
1	D	474	LEU	C-N-CA	-9.40	110.29	123.17
1	G	474	LEU	CA-C-N	-9.40	110.29	123.17
1	G	474	LEU	C-N-CA	-9.40	110.29	123.17
1	J	474	LEU	CA-C-N	-9.40	110.29	123.17
1	J	474	LEU	C-N-CA	-9.40	110.29	123.17
1	A	466	ASP	N-CA-C	-7.33	102.29	112.25
1	D	466	ASP	N-CA-C	-7.33	102.29	112.25
1	G	466	ASP	N-CA-C	-7.33	102.29	112.25
1	J	466	ASP	N-CA-C	-7.33	102.29	112.25
1	B	466	ASP	N-CA-C	-7.32	102.30	112.25
1	E	466	ASP	N-CA-C	-7.32	102.30	112.25
1	H	466	ASP	N-CA-C	-7.32	102.30	112.25
1	K	466	ASP	N-CA-C	-7.32	102.30	112.25
1	C	466	ASP	N-CA-C	-7.30	102.32	112.25
1	F	466	ASP	N-CA-C	-7.30	102.32	112.25
1	I	466	ASP	N-CA-C	-7.30	102.32	112.25
1	L	466	ASP	N-CA-C	-7.30	102.32	112.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	477	GLY	N-CA-C	-6.78	103.96	115.08
1	E	477	GLY	N-CA-C	-6.78	103.96	115.08
1	H	477	GLY	N-CA-C	-6.78	103.96	115.08
1	K	477	GLY	N-CA-C	-6.78	103.96	115.08
1	C	477	GLY	N-CA-C	-6.78	103.97	115.08
1	F	477	GLY	N-CA-C	-6.78	103.97	115.08
1	I	477	GLY	N-CA-C	-6.78	103.97	115.08
1	L	477	GLY	N-CA-C	-6.78	103.97	115.08
1	A	477	GLY	N-CA-C	-6.77	103.98	115.08
1	D	477	GLY	N-CA-C	-6.77	103.98	115.08
1	G	477	GLY	N-CA-C	-6.77	103.98	115.08
1	J	477	GLY	N-CA-C	-6.77	103.98	115.08
1	A	488	ASN	CA-CB-CG	-6.61	105.99	112.60
1	D	488	ASN	CA-CB-CG	-6.61	105.99	112.60
1	G	488	ASN	CA-CB-CG	-6.61	105.99	112.60
1	J	488	ASN	CA-CB-CG	-6.61	105.99	112.60
1	C	488	ASN	CA-CB-CG	-6.58	106.02	112.60
1	F	488	ASN	CA-CB-CG	-6.58	106.02	112.60
1	I	488	ASN	CA-CB-CG	-6.58	106.02	112.60
1	L	488	ASN	CA-CB-CG	-6.58	106.02	112.60
1	B	488	ASN	CA-CB-CG	-6.57	106.03	112.60
1	E	488	ASN	CA-CB-CG	-6.57	106.03	112.60
1	H	488	ASN	CA-CB-CG	-6.57	106.03	112.60
1	K	488	ASN	CA-CB-CG	-6.57	106.03	112.60
1	B	403	ASN	CA-CB-CG	-5.84	106.76	112.60
1	E	403	ASN	CA-CB-CG	-5.84	106.76	112.60
1	H	403	ASN	CA-CB-CG	-5.84	106.76	112.60
1	K	403	ASN	CA-CB-CG	-5.84	106.76	112.60
1	A	403	ASN	CA-CB-CG	-5.82	106.78	112.60
1	D	403	ASN	CA-CB-CG	-5.82	106.78	112.60
1	G	403	ASN	CA-CB-CG	-5.82	106.78	112.60
1	J	403	ASN	CA-CB-CG	-5.82	106.78	112.60
1	B	434	ASP	CA-CB-CG	-5.82	106.78	112.60
1	E	434	ASP	CA-CB-CG	-5.82	106.78	112.60
1	H	434	ASP	CA-CB-CG	-5.82	106.78	112.60
1	K	434	ASP	CA-CB-CG	-5.82	106.78	112.60
1	A	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	D	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	G	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	J	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	C	403	ASN	CA-CB-CG	-5.81	106.79	112.60
1	F	403	ASN	CA-CB-CG	-5.81	106.79	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	403	ASN	CA-CB-CG	-5.81	106.79	112.60
1	L	403	ASN	CA-CB-CG	-5.81	106.79	112.60
1	C	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	F	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	I	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	L	434	ASP	CA-CB-CG	-5.81	106.79	112.60
1	A	502	PHE	CA-CB-CG	-5.68	108.11	113.80
1	D	502	PHE	CA-CB-CG	-5.68	108.11	113.80
1	G	502	PHE	CA-CB-CG	-5.68	108.11	113.80
1	J	502	PHE	CA-CB-CG	-5.68	108.11	113.80
1	C	502	PHE	CA-CB-CG	-5.67	108.12	113.80
1	F	502	PHE	CA-CB-CG	-5.67	108.12	113.80
1	I	502	PHE	CA-CB-CG	-5.67	108.12	113.80
1	L	502	PHE	CA-CB-CG	-5.67	108.12	113.80
1	B	502	PHE	CA-CB-CG	-5.67	108.13	113.80
1	E	502	PHE	CA-CB-CG	-5.67	108.13	113.80
1	H	502	PHE	CA-CB-CG	-5.67	108.13	113.80
1	K	502	PHE	CA-CB-CG	-5.67	108.13	113.80
1	A	450	TYR	CA-CB-CG	-5.65	103.74	113.90
1	D	450	TYR	CA-CB-CG	-5.65	103.74	113.90
1	G	450	TYR	CA-CB-CG	-5.65	103.74	113.90
1	J	450	TYR	CA-CB-CG	-5.65	103.74	113.90
1	A	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	C	450	TYR	CA-CB-CG	-5.63	103.76	113.90
1	D	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	F	450	TYR	CA-CB-CG	-5.63	103.76	113.90
1	G	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	I	450	TYR	CA-CB-CG	-5.63	103.76	113.90
1	J	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	L	450	TYR	CA-CB-CG	-5.63	103.76	113.90
1	C	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	F	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	I	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	L	428	PHE	CB-CA-C	-5.63	102.04	110.88
1	B	428	PHE	CB-CA-C	-5.62	102.05	110.88
1	B	450	TYR	CA-CB-CG	-5.62	103.77	113.90
1	E	428	PHE	CB-CA-C	-5.62	102.05	110.88
1	E	450	TYR	CA-CB-CG	-5.62	103.77	113.90
1	H	428	PHE	CB-CA-C	-5.62	102.05	110.88
1	H	450	TYR	CA-CB-CG	-5.62	103.77	113.90
1	K	428	PHE	CB-CA-C	-5.62	102.05	110.88
1	K	450	TYR	CA-CB-CG	-5.62	103.77	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	513	ALA	N-CA-C	-5.55	105.23	111.28
1	F	513	ALA	N-CA-C	-5.55	105.23	111.28
1	I	513	ALA	N-CA-C	-5.55	105.23	111.28
1	L	513	ALA	N-CA-C	-5.55	105.23	111.28
1	A	513	ALA	N-CA-C	-5.54	105.24	111.28
1	D	513	ALA	N-CA-C	-5.54	105.24	111.28
1	G	513	ALA	N-CA-C	-5.54	105.24	111.28
1	J	513	ALA	N-CA-C	-5.54	105.24	111.28
1	B	513	ALA	N-CA-C	-5.53	105.25	111.28
1	E	513	ALA	N-CA-C	-5.53	105.25	111.28
1	H	513	ALA	N-CA-C	-5.53	105.25	111.28
1	K	513	ALA	N-CA-C	-5.53	105.25	111.28
1	A	352	PHE	CA-CB-CG	-5.48	108.32	113.80
1	D	352	PHE	CA-CB-CG	-5.48	108.32	113.80
1	G	352	PHE	CA-CB-CG	-5.48	108.32	113.80
1	J	352	PHE	CA-CB-CG	-5.48	108.32	113.80
1	C	352	PHE	CA-CB-CG	-5.47	108.33	113.80
1	F	352	PHE	CA-CB-CG	-5.47	108.33	113.80
1	I	352	PHE	CA-CB-CG	-5.47	108.33	113.80
1	L	352	PHE	CA-CB-CG	-5.47	108.33	113.80
1	B	352	PHE	CA-CB-CG	-5.45	108.35	113.80
1	E	352	PHE	CA-CB-CG	-5.45	108.35	113.80
1	H	352	PHE	CA-CB-CG	-5.45	108.35	113.80
1	K	352	PHE	CA-CB-CG	-5.45	108.35	113.80
1	A	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	C	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	D	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	F	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	G	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	I	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	J	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	L	396	ASP	CA-CB-CG	-5.39	107.21	112.60
1	B	396	ASP	CA-CB-CG	-5.37	107.23	112.60
1	E	396	ASP	CA-CB-CG	-5.37	107.23	112.60
1	H	396	ASP	CA-CB-CG	-5.37	107.23	112.60
1	K	396	ASP	CA-CB-CG	-5.37	107.23	112.60
1	C	416	ALA	CA-C-N	5.32	126.49	119.84
1	C	416	ALA	C-N-CA	5.32	126.49	119.84
1	F	416	ALA	CA-C-N	5.32	126.49	119.84
1	F	416	ALA	C-N-CA	5.32	126.49	119.84
1	I	416	ALA	CA-C-N	5.32	126.49	119.84
1	I	416	ALA	C-N-CA	5.32	126.49	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	416	ALA	CA-C-N	5.32	126.49	119.84
1	L	416	ALA	C-N-CA	5.32	126.49	119.84
1	A	416	ALA	CA-C-N	5.30	126.47	119.84
1	A	416	ALA	C-N-CA	5.30	126.47	119.84
1	D	416	ALA	CA-C-N	5.30	126.47	119.84
1	D	416	ALA	C-N-CA	5.30	126.47	119.84
1	G	416	ALA	CA-C-N	5.30	126.47	119.84
1	G	416	ALA	C-N-CA	5.30	126.47	119.84
1	J	416	ALA	CA-C-N	5.30	126.47	119.84
1	J	416	ALA	C-N-CA	5.30	126.47	119.84
1	C	421	LEU	N-CA-C	5.28	116.84	111.14
1	F	421	LEU	N-CA-C	5.28	116.84	111.14
1	I	421	LEU	N-CA-C	5.28	116.84	111.14
1	L	421	LEU	N-CA-C	5.28	116.84	111.14
1	A	491	ILE	CA-C-N	-5.28	115.77	123.06
1	A	491	ILE	C-N-CA	-5.28	115.77	123.06
1	D	491	ILE	CA-C-N	-5.28	115.77	123.06
1	D	491	ILE	C-N-CA	-5.28	115.77	123.06
1	G	491	ILE	CA-C-N	-5.28	115.77	123.06
1	G	491	ILE	C-N-CA	-5.28	115.77	123.06
1	J	491	ILE	CA-C-N	-5.28	115.77	123.06
1	J	491	ILE	C-N-CA	-5.28	115.77	123.06
1	B	416	ALA	CA-C-N	5.27	126.43	119.84
1	B	416	ALA	C-N-CA	5.27	126.43	119.84
1	E	416	ALA	CA-C-N	5.27	126.43	119.84
1	E	416	ALA	C-N-CA	5.27	126.43	119.84
1	H	416	ALA	CA-C-N	5.27	126.43	119.84
1	H	416	ALA	C-N-CA	5.27	126.43	119.84
1	K	416	ALA	CA-C-N	5.27	126.43	119.84
1	K	416	ALA	C-N-CA	5.27	126.43	119.84
1	C	491	ILE	CA-C-N	-5.26	115.81	123.06
1	C	491	ILE	C-N-CA	-5.26	115.81	123.06
1	F	491	ILE	CA-C-N	-5.26	115.81	123.06
1	F	491	ILE	C-N-CA	-5.26	115.81	123.06
1	I	491	ILE	CA-C-N	-5.26	115.81	123.06
1	I	491	ILE	C-N-CA	-5.26	115.81	123.06
1	L	491	ILE	CA-C-N	-5.26	115.81	123.06
1	L	491	ILE	C-N-CA	-5.26	115.81	123.06
1	B	491	ILE	CA-C-N	-5.25	115.82	123.06
1	B	491	ILE	C-N-CA	-5.25	115.82	123.06
1	E	491	ILE	CA-C-N	-5.25	115.82	123.06
1	E	491	ILE	C-N-CA	-5.25	115.82	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	491	ILE	CA-C-N	-5.25	115.82	123.06
1	H	491	ILE	C-N-CA	-5.25	115.82	123.06
1	K	491	ILE	CA-C-N	-5.25	115.82	123.06
1	K	491	ILE	C-N-CA	-5.25	115.82	123.06
1	A	421	LEU	N-CA-C	5.25	116.80	111.14
1	D	421	LEU	N-CA-C	5.25	116.80	111.14
1	G	421	LEU	N-CA-C	5.25	116.80	111.14
1	J	421	LEU	N-CA-C	5.25	116.80	111.14
1	B	421	LEU	N-CA-C	5.22	116.78	111.14
1	E	421	LEU	N-CA-C	5.22	116.78	111.14
1	H	421	LEU	N-CA-C	5.22	116.78	111.14
1	K	421	LEU	N-CA-C	5.22	116.78	111.14
1	C	424	LYS	N-CA-CB	5.14	118.25	110.28
1	F	424	LYS	N-CA-CB	5.14	118.25	110.28
1	I	424	LYS	N-CA-CB	5.14	118.25	110.28
1	L	424	LYS	N-CA-CB	5.14	118.25	110.28
1	A	424	LYS	N-CA-CB	5.13	118.23	110.28
1	D	424	LYS	N-CA-CB	5.13	118.23	110.28
1	G	424	LYS	N-CA-CB	5.13	118.23	110.28
1	J	424	LYS	N-CA-CB	5.13	118.23	110.28
1	B	424	LYS	N-CA-CB	5.11	118.21	110.28
1	E	424	LYS	N-CA-CB	5.11	118.21	110.28
1	H	424	LYS	N-CA-CB	5.11	118.21	110.28
1	K	424	LYS	N-CA-CB	5.11	118.21	110.28
1	C	411	ASN	CA-CB-CG	-5.10	107.50	112.60
1	F	411	ASN	CA-CB-CG	-5.10	107.50	112.60
1	I	411	ASN	CA-CB-CG	-5.10	107.50	112.60
1	L	411	ASN	CA-CB-CG	-5.10	107.50	112.60
1	B	411	ASN	CA-CB-CG	-5.09	107.51	112.60
1	E	411	ASN	CA-CB-CG	-5.09	107.51	112.60
1	H	411	ASN	CA-CB-CG	-5.09	107.51	112.60
1	K	411	ASN	CA-CB-CG	-5.09	107.51	112.60
1	A	411	ASN	CA-CB-CG	-5.08	107.52	112.60
1	D	411	ASN	CA-CB-CG	-5.08	107.52	112.60
1	G	411	ASN	CA-CB-CG	-5.08	107.52	112.60
1	J	411	ASN	CA-CB-CG	-5.08	107.52	112.60
1	C	441	LEU	N-CA-C	-5.05	101.48	109.96
1	F	441	LEU	N-CA-C	-5.05	101.48	109.96
1	I	441	LEU	N-CA-C	-5.05	101.48	109.96
1	L	441	LEU	N-CA-C	-5.05	101.48	109.96
1	A	441	LEU	N-CA-C	-5.04	101.49	109.96
1	D	441	LEU	N-CA-C	-5.04	101.49	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	441	LEU	N-CA-C	-5.04	101.49	109.96
1	J	441	LEU	N-CA-C	-5.04	101.49	109.96
1	B	441	LEU	N-CA-C	-5.02	101.52	109.96
1	E	441	LEU	N-CA-C	-5.02	101.52	109.96
1	H	441	LEU	N-CA-C	-5.02	101.52	109.96
1	K	441	LEU	N-CA-C	-5.02	101.52	109.96

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2152	0	2190	617	0
1	B	2152	0	2190	625	0
1	C	2152	0	2190	628	0
1	D	2152	0	2190	622	0
1	E	2152	0	2190	619	0
1	F	2152	0	2190	614	0
1	G	2152	0	2190	613	0
1	H	2152	0	2190	621	0
1	I	2152	0	2190	610	0
1	J	2152	0	2190	618	0
1	K	2152	0	2190	621	0
1	L	2152	0	2190	613	0
2	M	644	96	636	122	0
2	N	644	96	636	119	0
2	O	644	96	636	119	0
2	P	644	96	636	121	0
2	Q	644	96	636	124	0
2	R	644	96	636	123	0
2	S	644	96	636	121	0
2	T	644	96	636	122	0
2	U	644	96	636	117	0
2	V	644	96	636	121	0
2	W	644	96	636	119	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	X	644	96	636	122	0
All	All	33552	1152	33912	6831	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 101.

All (6831) 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:E:347:LYS:NZ	2:Q:104:GLY:HA2	1.29	1.47
1:C:347:LYS:NZ	2:O:104:GLY:HA2	1.30	1.46
1:G:347:LYS:NZ	2:S:104:GLY:HA2	1.30	1.46
1:A:347:LYS:NZ	2:M:104:GLY:HA2	1.30	1.41
1:I:347:LYS:NZ	2:U:104:GLY:HA2	1.30	1.40
1:H:347:LYS:NZ	2:T:104:GLY:HA2	1.29	1.40
1:J:347:LYS:NZ	2:V:104:GLY:HA2	1.30	1.40
1:L:347:LYS:NZ	2:X:104:GLY:HA2	1.30	1.40
1:F:347:LYS:NZ	2:R:104:GLY:HA2	1.30	1.39
1:B:347:LYS:NZ	2:N:104:GLY:HA2	1.29	1.39
1:D:347:LYS:NZ	2:P:104:GLY:HA2	1.30	1.39
1:K:347:LYS:NZ	2:W:104:GLY:HA2	1.29	1.39
1:G:343:PHE:HB2	1:H:470:ASN:N	1.39	1.38
1:H:343:PHE:HB2	1:I:470:ASN:N	1.39	1.38
1:F:343:PHE:HB2	1:G:470:ASN:N	1.39	1.38
1:I:343:PHE:HB2	1:J:470:ASN:N	1.39	1.38
1:E:343:PHE:HB2	1:F:470:ASN:N	1.39	1.37
1:J:343:PHE:HB2	1:K:470:ASN:N	1.39	1.37
1:B:343:PHE:HB2	1:C:469:GLY:CA	1.56	1.36
1:D:343:PHE:HB2	1:E:470:ASN:N	1.39	1.36
1:E:343:PHE:HB2	1:F:469:GLY:CA	1.56	1.36
1:H:343:PHE:HB2	1:I:469:GLY:CA	1.56	1.36
1:K:343:PHE:HB2	1:L:470:ASN:N	1.39	1.36
1:F:343:PHE:HB2	1:G:469:GLY:CA	1.56	1.36
1:K:343:PHE:HB2	1:L:469:GLY:CA	1.56	1.36
1:C:343:PHE:HB2	1:D:470:ASN:N	1.39	1.35
1:A:470:ASN:N	1:L:343:PHE:HB2	1.39	1.35
1:I:343:PHE:HB2	1:J:469:GLY:CA	1.56	1.35
1:H:343:PHE:CB	1:I:470:ASN:H	1.39	1.35
1:A:343:PHE:HB2	1:B:469:GLY:CA	1.56	1.35
1:A:343:PHE:HB2	1:B:470:ASN:N	1.39	1.35
1:A:469:GLY:CA	1:L:343:PHE:HB2	1.56	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:PHE:HB2	1:C:470:ASN:N	1.39	1.35
1:C:343:PHE:HB2	1:D:469:GLY:CA	1.56	1.35
1:G:343:PHE:CB	1:H:470:ASN:H	1.39	1.35
1:D:343:PHE:HB2	1:E:469:GLY:CA	1.56	1.34
1:E:343:PHE:CB	1:F:470:ASN:H	1.39	1.34
1:A:343:PHE:CB	1:B:470:ASN:H	1.39	1.34
1:G:343:PHE:HB2	1:H:469:GLY:CA	1.56	1.34
1:J:343:PHE:HB2	1:K:469:GLY:CA	1.56	1.34
1:B:343:PHE:CB	1:C:470:ASN:H	1.39	1.33
1:C:447:GLN:CG	1:D:508:GLU:OE2	1.76	1.33
1:D:343:PHE:CB	1:E:470:ASN:H	1.39	1.33
1:I:343:PHE:CB	1:J:470:ASN:H	1.39	1.33
1:B:447:GLN:CG	1:C:508:GLU:OE2	1.76	1.33
1:A:447:GLN:CG	1:B:508:GLU:OE2	1.77	1.33
1:A:470:ASN:H	1:L:343:PHE:CB	1.39	1.33
1:D:447:GLN:CG	1:E:508:GLU:OE2	1.77	1.33
1:K:343:PHE:CB	1:L:470:ASN:H	1.39	1.33
1:C:343:PHE:CB	1:D:470:ASN:H	1.39	1.33
1:F:343:PHE:CB	1:G:470:ASN:H	1.39	1.33
1:J:343:PHE:CB	1:K:470:ASN:H	1.39	1.33
1:K:447:GLN:CG	1:L:508:GLU:OE2	1.76	1.32
1:E:447:GLN:CG	1:F:508:GLU:OE2	1.76	1.32
1:J:447:GLN:CG	1:K:508:GLU:OE2	1.77	1.32
1:A:396:ASP:OD1	1:B:467:THR:CG2	1.78	1.32
1:A:467:THR:CG2	1:L:396:ASP:OD1	1.78	1.32
1:B:396:ASP:OD1	1:C:467:THR:CG2	1.78	1.31
1:A:229:ASP:OD1	1:L:261:ILE:HG12	1.29	1.31
1:A:508:GLU:OE2	1:L:447:GLN:CG	1.76	1.31
1:I:447:GLN:CG	1:J:508:GLU:OE2	1.76	1.31
1:J:396:ASP:OD1	1:K:467:THR:CG2	1.78	1.31
1:K:396:ASP:OD1	1:L:467:THR:CG2	1.78	1.31
1:C:343:PHE:HB2	1:D:469:GLY:C	1.56	1.31
1:F:295:ASN:N	1:G:273:LEU:HD21	1.46	1.31
1:F:447:GLN:CG	1:G:508:GLU:OE2	1.76	1.31
1:C:295:ASN:N	1:D:273:LEU:HD21	1.46	1.31
1:D:343:PHE:HB2	1:E:469:GLY:C	1.55	1.31
1:I:396:ASP:OD1	1:J:467:THR:CG2	1.78	1.31
1:J:261:ILE:HG12	1:K:229:ASP:OD1	1.29	1.31
1:B:343:PHE:HB2	1:C:469:GLY:C	1.56	1.31
1:H:447:GLN:CG	1:I:508:GLU:OE2	1.76	1.31
1:A:261:ILE:HG12	1:B:229:ASP:OD1	1.29	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:ASN:N	1:B:273:LEU:HD21	1.46	1.30
1:C:396:ASP:OD1	1:D:467:THR:CG2	1.78	1.30
1:D:295:ASN:N	1:E:273:LEU:HD21	1.46	1.30
1:G:447:GLN:CG	1:H:508:GLU:OE2	1.77	1.30
1:F:343:PHE:CB	1:G:470:ASN:N	1.93	1.30
1:G:396:ASP:OD1	1:H:467:THR:CG2	1.78	1.30
1:H:396:ASP:OD1	1:I:467:THR:CG2	1.78	1.30
1:E:343:PHE:HB2	1:F:469:GLY:C	1.56	1.30
1:G:295:ASN:N	1:H:273:LEU:HD21	1.46	1.30
1:D:396:ASP:OD1	1:E:467:THR:CG2	1.78	1.30
1:F:396:ASP:OD1	1:G:467:THR:CG2	1.78	1.30
1:A:343:PHE:HB2	1:B:469:GLY:C	1.55	1.30
1:E:396:ASP:OD1	1:F:467:THR:CG2	1.78	1.30
1:C:261:ILE:HG12	1:D:229:ASP:OD1	1.29	1.29
1:I:295:ASN:N	1:J:273:LEU:HD21	1.46	1.29
1:J:295:ASN:H	1:K:273:LEU:CD2	1.45	1.29
1:H:295:ASN:H	1:I:273:LEU:CD2	1.45	1.29
1:J:343:PHE:CB	1:K:470:ASN:N	1.93	1.29
1:K:295:ASN:N	1:L:273:LEU:HD21	1.46	1.29
1:I:343:PHE:CB	1:J:470:ASN:N	1.93	1.29
1:G:343:PHE:CB	1:H:470:ASN:N	1.93	1.29
1:H:295:ASN:N	1:I:273:LEU:HD21	1.46	1.29
1:A:273:LEU:CD2	1:L:295:ASN:H	1.45	1.28
1:F:343:PHE:HB2	1:G:469:GLY:C	1.56	1.28
1:I:343:PHE:HB2	1:J:469:GLY:C	1.56	1.28
1:K:343:PHE:CB	1:L:470:ASN:N	1.93	1.28
1:A:273:LEU:HD21	1:L:295:ASN:N	1.46	1.28
1:H:343:PHE:HB2	1:I:469:GLY:C	1.56	1.28
1:F:295:ASN:H	1:G:273:LEU:CD2	1.45	1.28
1:J:343:PHE:HB2	1:K:469:GLY:C	1.55	1.28
1:B:295:ASN:N	1:C:273:LEU:HD21	1.46	1.27
1:E:295:ASN:N	1:F:273:LEU:HD21	1.46	1.27
1:G:295:ASN:H	1:H:273:LEU:CD2	1.45	1.27
1:G:343:PHE:HB2	1:H:469:GLY:C	1.55	1.27
1:H:343:PHE:CB	1:I:470:ASN:N	1.93	1.27
1:K:343:PHE:HB2	1:L:469:GLY:C	1.56	1.27
1:A:469:GLY:C	1:L:343:PHE:HB2	1.56	1.27
1:B:295:ASN:H	1:C:273:LEU:CD2	1.45	1.27
1:I:295:ASN:H	1:J:273:LEU:CD2	1.45	1.27
1:J:295:ASN:N	1:K:273:LEU:HD21	1.46	1.27
1:C:295:ASN:H	1:D:273:LEU:CD2	1.45	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:261:ILE:HG12	1:C:229:ASP:OD1	1.29	1.27
1:E:343:PHE:CB	1:F:470:ASN:N	1.93	1.27
1:D:295:ASN:H	1:E:273:LEU:CD2	1.45	1.27
1:A:295:ASN:H	1:B:273:LEU:CD2	1.45	1.26
1:B:261:ILE:HG21	1:C:229:ASP:OD2	1.08	1.26
1:K:261:ILE:HG21	1:L:229:ASP:OD2	1.08	1.26
1:K:261:ILE:HG12	1:L:229:ASP:OD1	1.29	1.26
1:E:295:ASN:H	1:F:273:LEU:CD2	1.45	1.26
1:K:295:ASN:H	1:L:273:LEU:CD2	1.45	1.26
1:H:261:ILE:HG12	1:I:229:ASP:OD1	1.29	1.26
1:G:261:ILE:HG12	1:H:229:ASP:OD1	1.29	1.25
1:C:343:PHE:CB	1:D:470:ASN:N	1.93	1.25
1:E:261:ILE:HG12	1:F:229:ASP:OD1	1.29	1.25
1:B:343:PHE:CB	1:C:470:ASN:N	1.93	1.25
1:J:261:ILE:HG21	1:K:229:ASP:OD2	1.08	1.25
1:C:261:ILE:HG21	1:D:229:ASP:OD2	1.08	1.25
1:I:261:ILE:HG12	1:J:229:ASP:OD1	1.29	1.25
1:H:261:ILE:HG21	1:I:229:ASP:OD2	1.08	1.24
1:A:229:ASP:OD2	1:L:261:ILE:HG21	1.08	1.24
1:A:343:PHE:CB	1:B:470:ASN:N	1.93	1.24
1:D:343:PHE:CB	1:E:470:ASN:N	1.93	1.24
1:E:261:ILE:HG21	1:F:229:ASP:OD2	1.08	1.24
1:A:261:ILE:HG21	1:B:229:ASP:OD2	1.08	1.24
1:A:470:ASN:N	1:L:343:PHE:CB	1.93	1.23
1:D:261:ILE:HG12	1:E:229:ASP:OD1	1.29	1.23
1:I:261:ILE:HG21	1:J:229:ASP:OD2	1.08	1.23
1:F:261:ILE:HG12	1:G:229:ASP:OD1	1.29	1.22
1:D:261:ILE:HG21	1:E:229:ASP:OD2	1.08	1.22
1:G:261:ILE:HG21	1:H:229:ASP:OD2	1.08	1.22
1:F:261:ILE:HG21	1:G:229:ASP:OD2	1.08	1.22
1:F:293:ARG:NH1	1:G:272:THR:HG21	1.55	1.22
1:G:293:ARG:NH1	1:H:272:THR:HG21	1.55	1.22
1:H:293:ARG:NH1	1:I:272:THR:HG21	1.55	1.22
1:E:293:ARG:NH1	1:F:272:THR:HG21	1.55	1.21
1:E:406:MET:SD	1:F:468:THR:HG21	1.81	1.21
1:G:406:MET:SD	1:H:468:THR:HG21	1.81	1.21
1:I:293:ARG:NH1	1:J:272:THR:HG21	1.55	1.21
1:D:293:ARG:NH1	1:E:272:THR:HG21	1.55	1.21
1:D:406:MET:SD	1:E:468:THR:HG21	1.81	1.21
1:I:406:MET:SD	1:J:468:THR:HG21	1.81	1.21
1:B:406:MET:SD	1:C:468:THR:HG21	1.81	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:293:ARG:NH1	1:K:272:THR:HG21	1.55	1.20
1:J:406:MET:SD	1:K:468:THR:HG21	1.81	1.20
1:H:406:MET:SD	1:I:468:THR:HG21	1.81	1.20
1:A:468:THR:HG21	1:L:406:MET:SD	1.81	1.20
1:C:406:MET:SD	1:D:468:THR:HG21	1.81	1.20
1:C:293:ARG:NH1	1:D:272:THR:HG21	1.55	1.20
1:F:406:MET:SD	1:G:468:THR:HG21	1.81	1.20
1:K:293:ARG:NH1	1:L:272:THR:HG21	1.55	1.20
1:B:293:ARG:NH1	1:C:272:THR:HG21	1.55	1.19
1:B:447:GLN:HG3	1:C:508:GLU:OE2	1.42	1.19
1:C:424:LYS:HE2	1:C:441:LEU:HD12	1.22	1.19
1:A:293:ARG:NH1	1:B:272:THR:HG21	1.55	1.19
1:E:343:PHE:HB2	1:F:469:GLY:HA2	1.21	1.19
1:F:424:LYS:HE2	1:F:441:LEU:HD12	1.22	1.19
1:K:406:MET:SD	1:L:468:THR:HG21	1.81	1.19
1:A:272:THR:HG21	1:L:293:ARG:NH1	1.55	1.19
1:J:447:GLN:CD	1:K:508:GLU:OE2	1.86	1.19
1:B:343:PHE:HB2	1:C:469:GLY:HA2	1.21	1.18
1:J:387:LYS:HB3	2:V:102:LYS:HD3	1.23	1.18
1:K:447:GLN:CD	1:L:508:GLU:OE2	1.86	1.18
1:A:406:MET:SD	1:B:468:THR:HG21	1.81	1.18
1:A:229:ASP:OD2	1:L:261:ILE:CG2	1.92	1.18
1:A:261:ILE:CG2	1:B:229:ASP:OD2	1.92	1.18
1:I:447:GLN:CD	1:J:508:GLU:OE2	1.86	1.18
1:C:354:ASP:H	1:C:383:THR:HG22	1.09	1.18
1:I:387:LYS:HB3	2:U:102:LYS:HD3	1.23	1.18
1:A:508:GLU:OE2	1:L:447:GLN:CD	1.86	1.17
1:B:261:ILE:CG2	1:C:229:ASP:OD2	1.91	1.17
1:K:261:ILE:CG2	1:L:229:ASP:OD2	1.91	1.17
1:K:387:LYS:HB3	2:W:102:LYS:HD3	1.23	1.17
1:D:354:ASP:H	1:D:383:THR:HG22	1.09	1.17
1:E:261:ILE:CG2	1:F:229:ASP:OD2	1.91	1.17
1:F:261:ILE:CG2	1:G:229:ASP:OD2	1.92	1.17
1:B:447:GLN:CD	1:C:508:GLU:OE2	1.86	1.17
1:A:447:GLN:HG3	1:B:508:GLU:OE2	1.42	1.17
1:H:261:ILE:CG2	1:I:229:ASP:OD2	1.91	1.17
1:I:261:ILE:CG2	1:J:229:ASP:OD2	1.92	1.17
1:C:447:GLN:HG3	1:D:508:GLU:OE2	1.42	1.16
1:F:299:GLN:HE21	1:G:227:ASN:ND2	1.43	1.16
1:I:299:GLN:HE21	1:J:227:ASN:ND2	1.43	1.16
1:J:294:LEU:HG	1:K:273:LEU:CD2	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:GLN:CD	1:D:508:GLU:OE2	1.86	1.16
1:E:418:ARG:HD2	1:E:481:VAL:HB	1.26	1.16
1:A:294:LEU:HG	1:B:273:LEU:CD2	1.75	1.16
1:E:299:GLN:HE21	1:F:227:ASN:ND2	1.43	1.16
1:F:294:LEU:HD21	1:G:227:ASN:HB2	1.26	1.16
1:G:261:ILE:CG2	1:H:229:ASP:OD2	1.92	1.16
1:K:294:LEU:HG	1:L:273:LEU:CD2	1.75	1.16
1:B:354:ASP:H	1:B:383:THR:HG22	1.10	1.16
1:D:261:ILE:CG2	1:E:229:ASP:OD2	1.92	1.16
1:E:294:LEU:HD21	1:F:227:ASN:HB2	1.26	1.16
1:B:294:LEU:HG	1:C:273:LEU:CD2	1.75	1.16
1:D:343:PHE:HB2	1:E:469:GLY:HA2	1.21	1.16
1:E:354:ASP:H	1:E:383:THR:HG22	1.10	1.16
1:H:299:GLN:HE21	1:I:227:ASN:ND2	1.43	1.16
1:J:261:ILE:CG2	1:K:229:ASP:OD2	1.92	1.16
1:A:447:GLN:CD	1:B:508:GLU:OE2	1.86	1.15
1:B:424:LYS:HE2	1:B:441:LEU:HD12	1.22	1.15
1:C:261:ILE:CG2	1:D:229:ASP:OD2	1.92	1.15
1:C:293:ARG:HH12	1:D:272:THR:HG21	1.07	1.15
1:H:387:LYS:HB3	2:T:102:LYS:HD3	1.23	1.15
1:D:418:ARG:HD2	1:D:481:VAL:HB	1.26	1.15
1:F:389:VAL:HG22	1:G:376:ASP:CG	1.71	1.15
1:F:447:GLN:CD	1:G:508:GLU:OE2	1.86	1.15
1:G:294:LEU:HG	1:H:273:LEU:CD2	1.75	1.15
1:G:447:GLN:CD	1:H:508:GLU:OE2	1.86	1.15
1:J:299:GLN:HE21	1:K:227:ASN:ND2	1.43	1.15
1:H:294:LEU:HG	1:I:273:LEU:CD2	1.75	1.15
1:I:294:LEU:HG	1:J:273:LEU:CD2	1.75	1.15
1:I:389:VAL:HG22	1:J:376:ASP:CG	1.71	1.15
1:F:418:ARG:HD2	1:F:481:VAL:HB	1.25	1.15
1:G:299:GLN:HE21	1:H:227:ASN:ND2	1.43	1.15
1:G:343:PHE:HB2	1:H:469:GLY:HA2	1.21	1.15
1:B:299:GLN:HE21	1:C:227:ASN:ND2	1.43	1.15
1:A:273:LEU:CD2	1:L:294:LEU:HG	1.75	1.14
1:A:299:GLN:HE21	1:B:227:ASN:ND2	1.43	1.14
1:C:299:GLN:HE21	1:D:227:ASN:ND2	1.43	1.14
1:D:294:LEU:HG	1:E:273:LEU:CD2	1.75	1.14
1:E:294:LEU:HG	1:F:273:LEU:CD2	1.75	1.14
1:E:389:VAL:HG22	1:F:376:ASP:CG	1.71	1.14
1:G:294:LEU:HD21	1:H:227:ASN:HB2	1.26	1.14
1:H:389:VAL:HG22	1:I:376:ASP:CG	1.71	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:447:GLN:CD	1:E:508:GLU:OE2	1.86	1.14
1:E:424:LYS:HE2	1:E:441:LEU:HD12	1.22	1.14
1:F:294:LEU:HG	1:G:273:LEU:CD2	1.75	1.14
1:F:354:ASP:H	1:F:383:THR:HG22	1.09	1.14
1:G:389:VAL:HG22	1:H:376:ASP:CG	1.71	1.14
1:A:227:ASN:ND2	1:L:299:GLN:HE21	1.43	1.14
1:E:447:GLN:CD	1:F:508:GLU:OE2	1.86	1.14
1:H:447:GLN:CD	1:I:508:GLU:OE2	1.86	1.14
1:J:389:VAL:HG22	1:K:376:ASP:CG	1.71	1.14
1:L:387:LYS:HB3	2:X:102:LYS:HD3	1.23	1.14
1:A:354:ASP:H	1:A:383:THR:HG22	1.09	1.14
1:D:299:GLN:HE21	1:E:227:ASN:ND2	1.43	1.14
1:C:389:VAL:HG22	1:D:376:ASP:CG	1.71	1.13
1:D:404:LEU:HD12	1:D:417:PRO:HA	1.13	1.13
1:A:376:ASP:CG	1:L:389:VAL:HG22	1.71	1.13
1:B:389:VAL:HG22	1:C:376:ASP:CG	1.71	1.13
1:C:294:LEU:HG	1:D:273:LEU:CD2	1.75	1.13
1:E:404:LEU:HD12	1:E:417:PRO:HA	1.13	1.13
1:J:343:PHE:CB	1:K:469:GLY:HA2	1.79	1.13
1:A:404:LEU:HD12	1:A:417:PRO:HA	1.13	1.13
1:K:343:PHE:CB	1:L:469:GLY:HA2	1.79	1.13
1:A:508:GLU:OE2	1:L:447:GLN:HG3	1.42	1.13
1:C:418:ARG:HD2	1:C:481:VAL:HB	1.25	1.13
1:D:294:LEU:HD21	1:E:227:ASN:HB2	1.26	1.13
1:G:424:LYS:HE2	1:G:441:LEU:HD12	1.22	1.13
1:I:343:PHE:CB	1:J:469:GLY:HA2	1.79	1.13
1:K:299:GLN:HE21	1:L:227:ASN:ND2	1.43	1.13
1:A:469:GLY:HA2	1:L:343:PHE:CB	1.79	1.13
1:A:343:PHE:HB2	1:B:469:GLY:HA2	1.21	1.12
1:A:389:VAL:HG22	1:B:376:ASP:CG	1.71	1.12
1:B:404:LEU:HD12	1:B:417:PRO:HA	1.13	1.12
1:D:389:VAL:HG22	1:E:376:ASP:CG	1.71	1.13
1:K:389:VAL:HG22	1:L:376:ASP:CG	1.71	1.13
1:A:387:LYS:HB3	2:M:102:LYS:HD3	1.23	1.12
1:C:404:LEU:HD12	1:C:417:PRO:HA	1.13	1.12
1:D:424:LYS:HE2	1:D:441:LEU:HD12	1.22	1.12
1:H:343:PHE:CB	1:I:469:GLY:HA2	1.79	1.12
1:L:424:LYS:HE2	1:L:441:LEU:HD12	1.22	1.12
1:A:343:PHE:CB	1:B:469:GLY:HA2	1.79	1.12
1:F:256:GLN:HE22	1:G:231:ARG:HD2	0.97	1.12
1:G:256:GLN:HE22	1:H:231:ARG:HD2	0.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:354:ASP:H	1:G:383:THR:HG22	1.09	1.12
1:A:272:THR:HG21	1:L:293:ARG:HH12	1.07	1.12
1:A:294:LEU:HD21	1:B:227:ASN:CB	1.80	1.12
1:B:294:LEU:HD21	1:C:227:ASN:CB	1.80	1.12
1:D:447:GLN:HG3	1:E:508:GLU:OE2	1.42	1.12
1:F:293:ARG:HH12	1:G:272:THR:HG21	1.07	1.12
1:H:294:LEU:HD21	1:I:227:ASN:HB2	1.26	1.12
1:K:388:ASP:O	1:L:376:ASP:OD2	1.68	1.12
1:K:447:GLN:HG3	1:L:508:GLU:OE2	1.42	1.12
1:A:227:ASN:CB	1:L:294:LEU:HD21	1.80	1.12
1:A:469:GLY:HA2	1:L:343:PHE:HB2	1.21	1.12
1:C:294:LEU:HD21	1:D:227:ASN:CB	1.80	1.12
1:D:294:LEU:HD21	1:E:227:ASN:CB	1.80	1.12
1:E:294:LEU:HG	1:F:273:LEU:HD22	1.13	1.12
1:F:396:ASP:CG	1:G:467:THR:HG21	1.74	1.12
1:F:404:LEU:HD12	1:F:417:PRO:HA	1.13	1.12
1:F:447:GLN:HG3	1:G:508:GLU:OE2	1.42	1.12
1:G:294:LEU:HG	1:H:273:LEU:HD22	1.13	1.12
1:G:343:PHE:CB	1:H:469:GLY:HA2	1.79	1.12
1:I:424:LYS:HE2	1:I:441:LEU:HD12	1.22	1.12
1:L:404:LEU:HD12	1:L:417:PRO:HA	1.13	1.12
1:G:387:LYS:HB3	2:S:102:LYS:HD3	1.23	1.11
1:G:396:ASP:CG	1:H:467:THR:HG21	1.74	1.11
1:H:265:LYS:HE3	1:I:245:LEU:CD2	1.55	1.11
1:I:265:LYS:HE3	1:J:245:LEU:CD2	1.55	1.11
1:A:388:ASP:O	1:B:376:ASP:OD2	1.68	1.11
1:B:343:PHE:CB	1:C:469:GLY:HA2	1.79	1.11
1:C:465:ALA:HB2	1:C:475:ILE:HD11	1.30	1.11
1:E:294:LEU:HD21	1:F:227:ASN:CB	1.80	1.11
1:H:343:PHE:HB2	1:I:469:GLY:HA2	1.21	1.11
1:I:388:ASP:O	1:J:376:ASP:OD2	1.68	1.11
1:J:299:GLN:NE2	1:K:227:ASN:HD21	1.49	1.11
1:K:294:LEU:HD21	1:L:227:ASN:CB	1.80	1.11
1:L:354:ASP:H	1:L:383:THR:HG22	1.09	1.11
1:A:376:ASP:OD2	1:L:388:ASP:O	1.68	1.11
1:B:465:ALA:HB2	1:B:475:ILE:HD11	1.30	1.11
1:D:294:LEU:HG	1:E:273:LEU:HD22	1.13	1.11
1:E:256:GLN:HE22	1:F:231:ARG:HD2	0.97	1.11
1:E:396:ASP:CG	1:F:467:THR:HG21	1.74	1.11
1:F:299:GLN:NE2	1:G:227:ASN:HD21	1.49	1.11
1:G:299:GLN:NE2	1:H:227:ASN:HD21	1.49	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:256:GLN:HE22	1:I:231:ARG:HD2	0.97	1.11
1:H:294:LEU:HG	1:I:273:LEU:HD22	1.13	1.11
1:J:388:ASP:O	1:K:376:ASP:OD2	1.68	1.11
1:J:396:ASP:CG	1:K:467:THR:HG21	1.74	1.11
1:A:467:THR:HG21	1:L:396:ASP:CG	1.74	1.11
1:C:343:PHE:HB2	1:D:469:GLY:HA2	1.21	1.11
1:C:343:PHE:CB	1:D:469:GLY:HA2	1.79	1.11
1:E:256:GLN:NE2	1:F:231:ARG:HD2	1.64	1.11
1:F:256:GLN:NE2	1:G:231:ARG:HD2	1.64	1.11
1:G:418:ARG:HD2	1:G:481:VAL:HB	1.26	1.11
1:G:447:GLN:HG3	1:H:508:GLU:OE2	1.42	1.11
1:H:396:ASP:CG	1:I:467:THR:HG21	1.74	1.11
1:I:396:ASP:CG	1:J:467:THR:HG21	1.74	1.11
1:D:343:PHE:CB	1:E:469:GLY:HA2	1.79	1.11
1:D:465:ALA:HB2	1:D:475:ILE:HD11	1.30	1.11
1:F:294:LEU:HG	1:G:273:LEU:HD22	1.13	1.11
1:F:343:PHE:CB	1:G:469:GLY:HA2	1.79	1.11
1:G:256:GLN:NE2	1:H:231:ARG:HD2	1.64	1.11
1:H:256:GLN:NE2	1:I:231:ARG:HD2	1.64	1.11
1:I:299:GLN:NE2	1:J:227:ASN:HD21	1.49	1.11
1:K:343:PHE:HB2	1:L:469:GLY:HA2	1.21	1.11
1:A:299:GLN:NE2	1:B:227:ASN:HD21	1.49	1.10
1:A:396:ASP:CG	1:B:467:THR:HG21	1.74	1.10
1:B:299:GLN:NE2	1:C:227:ASN:HD21	1.49	1.10
1:B:387:LYS:HB3	2:N:102:LYS:HD3	1.23	1.10
1:D:256:GLN:NE2	1:E:231:ARG:HD2	1.64	1.10
1:E:343:PHE:CB	1:F:469:GLY:HA2	1.79	1.10
1:F:294:LEU:HD21	1:G:227:ASN:CB	1.80	1.10
1:J:294:LEU:HD21	1:K:227:ASN:CB	1.80	1.10
1:K:294:LEU:CA	1:L:273:LEU:HD21	1.81	1.10
1:A:231:ARG:HD2	1:L:256:GLN:NE2	1.64	1.10
1:A:294:LEU:CA	1:B:273:LEU:HD21	1.82	1.10
1:A:256:GLN:NE2	1:B:231:ARG:HD2	1.64	1.10
1:B:396:ASP:CG	1:C:467:THR:HG21	1.74	1.10
1:C:256:GLN:NE2	1:D:231:ARG:HD2	1.64	1.10
1:C:294:LEU:CA	1:D:273:LEU:HD21	1.82	1.10
1:C:299:GLN:NE2	1:D:227:ASN:HD21	1.49	1.10
1:C:396:ASP:CG	1:D:467:THR:HG21	1.74	1.10
1:D:396:ASP:CG	1:E:467:THR:HG21	1.74	1.10
1:F:343:PHE:HB2	1:G:469:GLY:HA2	1.21	1.10
1:H:388:ASP:O	1:I:376:ASP:OD2	1.68	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:LYS:HE2	1:H:441:LEU:HD12	1.22	1.10
1:I:343:PHE:HB2	1:J:469:GLY:HA2	1.21	1.10
1:K:299:GLN:NE2	1:L:227:ASN:HD21	1.49	1.10
1:K:404:LEU:HD12	1:K:417:PRO:HA	1.13	1.10
1:B:256:GLN:NE2	1:C:231:ARG:HD2	1.64	1.10
1:B:418:ARG:HD2	1:B:481:VAL:HB	1.26	1.10
1:D:256:GLN:HE22	1:E:231:ARG:HD2	0.97	1.10
1:D:294:LEU:CA	1:E:273:LEU:HD21	1.82	1.10
1:D:387:LYS:HB3	2:P:102:LYS:HD3	1.23	1.10
1:E:299:GLN:NE2	1:F:227:ASN:HD21	1.49	1.10
1:E:447:GLN:HG3	1:F:508:GLU:OE2	1.42	1.10
1:F:294:LEU:CA	1:G:273:LEU:HD21	1.82	1.10
1:H:354:ASP:H	1:H:383:THR:HG22	1.10	1.10
1:I:256:GLN:NE2	1:J:231:ARG:HD2	1.64	1.10
1:J:265:LYS:HE3	1:K:245:LEU:CD2	1.55	1.10
1:K:256:GLN:NE2	1:L:231:ARG:HD2	1.64	1.10
1:L:418:ARG:HD2	1:L:481:VAL:HB	1.25	1.10
1:B:388:ASP:O	1:C:376:ASP:OD2	1.68	1.10
1:D:388:ASP:O	1:E:376:ASP:OD2	1.68	1.10
1:G:265:LYS:HE3	1:H:245:LEU:CD2	1.55	1.10
1:G:404:LEU:HD12	1:G:417:PRO:HA	1.13	1.10
1:H:294:LEU:CA	1:I:273:LEU:HD21	1.81	1.10
1:I:256:GLN:HE22	1:J:231:ARG:HD2	0.97	1.10
1:J:256:GLN:NE2	1:K:231:ARG:HD2	1.64	1.10
1:K:354:ASP:H	1:K:383:THR:HG22	1.10	1.10
1:A:227:ASN:HD21	1:L:299:GLN:NE2	1.49	1.09
1:F:387:LYS:HB3	2:R:102:LYS:HD3	1.23	1.09
1:I:294:LEU:HD21	1:J:227:ASN:CB	1.80	1.09
1:I:465:ALA:HB2	1:I:475:ILE:HD11	1.30	1.09
1:J:294:LEU:CA	1:K:273:LEU:HD21	1.82	1.09
1:K:294:LEU:HD21	1:L:227:ASN:HB2	1.26	1.09
1:K:396:ASP:CG	1:L:467:THR:HG21	1.74	1.09
1:K:424:LYS:HE2	1:K:441:LEU:HD12	1.22	1.09
1:B:294:LEU:CA	1:C:273:LEU:HD21	1.81	1.09
1:E:294:LEU:CA	1:F:273:LEU:HD21	1.81	1.09
1:E:388:ASP:O	1:F:376:ASP:OD2	1.68	1.09
1:G:294:LEU:HD21	1:H:227:ASN:CB	1.80	1.09
1:I:294:LEU:CA	1:J:273:LEU:HD21	1.82	1.09
1:K:418:ARG:HD2	1:K:481:VAL:HB	1.26	1.09
1:A:294:LEU:HD21	1:B:227:ASN:HB2	1.26	1.09
1:C:294:LEU:HG	1:D:273:LEU:HD22	1.13	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:387:LYS:HB3	2:O:102:LYS:HD3	1.23	1.09
1:D:299:GLN:NE2	1:E:227:ASN:HD21	1.49	1.09
1:E:387:LYS:HB3	2:Q:102:LYS:HD3	1.23	1.09
1:G:388:ASP:O	1:H:376:ASP:OD2	1.68	1.09
1:H:447:GLN:HG3	1:I:508:GLU:OE2	1.42	1.09
1:H:465:ALA:HB2	1:H:475:ILE:HD11	1.30	1.09
1:I:294:LEU:HG	1:J:273:LEU:HD22	1.13	1.09
1:J:293:ARG:HH12	1:K:272:THR:HG21	1.07	1.09
1:J:343:PHE:HB2	1:K:469:GLY:HA2	1.21	1.09
1:J:418:ARG:HD2	1:J:481:VAL:HB	1.26	1.09
1:A:256:GLN:HE22	1:B:231:ARG:HD2	0.97	1.09
1:A:424:LYS:HE2	1:A:441:LEU:HD12	1.22	1.09
1:A:465:ALA:HB2	1:A:475:ILE:HD11	1.30	1.09
1:D:424:LYS:HB2	1:D:441:LEU:HD13	1.35	1.09
1:H:299:GLN:NE2	1:I:227:ASN:HD21	1.49	1.09
1:H:404:LEU:HD12	1:H:417:PRO:HA	1.13	1.09
1:H:424:LYS:HB2	1:H:441:LEU:HD13	1.35	1.09
1:J:404:LEU:HD12	1:J:417:PRO:HA	1.13	1.09
1:A:227:ASN:HB2	1:L:294:LEU:HD21	1.26	1.09
1:A:273:LEU:HD21	1:L:294:LEU:CA	1.82	1.09
1:B:256:GLN:HE22	1:C:231:ARG:HD2	0.97	1.09
1:C:388:ASP:O	1:D:376:ASP:OD2	1.68	1.09
1:E:424:LYS:HB2	1:E:441:LEU:HD13	1.35	1.09
1:E:465:ALA:HB2	1:E:475:ILE:HD11	1.30	1.09
1:H:294:LEU:HD21	1:I:227:ASN:CB	1.80	1.09
1:I:418:ARG:HD2	1:I:481:VAL:HB	1.25	1.09
1:J:294:LEU:HD21	1:K:227:ASN:HB2	1.26	1.09
1:A:273:LEU:HD22	1:L:294:LEU:HG	1.13	1.08
1:G:424:LYS:HB2	1:G:441:LEU:HD13	1.35	1.08
1:I:404:LEU:HD12	1:I:417:PRO:HA	1.13	1.08
1:J:354:ASP:H	1:J:383:THR:HG22	1.09	1.08
1:J:465:ALA:HB2	1:J:475:ILE:HD11	1.30	1.08
1:A:418:ARG:HD2	1:A:481:VAL:HB	1.26	1.08
1:B:294:LEU:HD21	1:C:227:ASN:HB2	1.26	1.08
1:C:294:LEU:HD21	1:D:227:ASN:HB2	1.26	1.08
1:F:349:SER:OG	2:R:102:LYS:HG2	1.54	1.08
1:I:447:GLN:HG3	1:J:508:GLU:OE2	1.42	1.08
1:L:465:ALA:HB2	1:L:475:ILE:HD11	1.30	1.08
1:E:293:ARG:HH12	1:F:272:THR:HG21	1.07	1.08
1:E:349:SER:OG	2:Q:102:LYS:HG2	1.54	1.08
1:H:293:ARG:HH12	1:I:272:THR:HG21	1.07	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:424:LYS:HB2	1:I:441:LEU:HD13	1.35	1.08
1:J:256:GLN:HE22	1:K:231:ARG:HD2	0.97	1.08
1:J:447:GLN:HG3	1:K:508:GLU:OE2	1.42	1.08
1:B:293:ARG:HH12	1:C:272:THR:HG21	1.07	1.08
1:C:256:GLN:HE22	1:D:231:ARG:HD2	0.97	1.08
1:I:294:LEU:HD21	1:J:227:ASN:HB2	1.26	1.08
1:C:424:LYS:HB2	1:C:441:LEU:HD13	1.35	1.08
1:G:294:LEU:CA	1:H:273:LEU:HD21	1.82	1.08
1:I:354:ASP:H	1:I:383:THR:HG22	1.09	1.08
1:B:349:SER:OG	2:N:102:LYS:HG2	1.54	1.07
1:H:418:ARG:HD2	1:H:481:VAL:HB	1.26	1.07
1:J:424:LYS:HE2	1:J:441:LEU:HD12	1.22	1.07
1:F:388:ASP:O	1:G:376:ASP:OD2	1.68	1.07
1:G:349:SER:OG	2:S:102:LYS:HG2	1.54	1.07
1:K:265:LYS:HE3	1:L:245:LEU:CD2	1.55	1.07
1:F:424:LYS:HB2	1:F:441:LEU:HD13	1.35	1.07
1:H:349:SER:OG	2:T:102:LYS:HG2	1.54	1.07
1:J:424:LYS:HB2	1:J:441:LEU:HD13	1.35	1.07
1:B:424:LYS:HB2	1:B:441:LEU:HD13	1.35	1.07
1:D:349:SER:OG	2:P:102:LYS:HG2	1.54	1.07
1:G:465:ALA:HB2	1:G:475:ILE:HD11	1.30	1.07
1:K:396:ASP:OD1	1:L:467:THR:HG22	1.55	1.07
1:A:294:LEU:HG	1:B:273:LEU:HD22	1.13	1.07
1:B:294:LEU:HG	1:C:273:LEU:HD22	1.13	1.07
1:F:265:LYS:HE3	1:G:245:LEU:CD2	1.55	1.07
1:J:294:LEU:HG	1:K:273:LEU:HD22	1.13	1.07
1:A:231:ARG:HD2	1:L:256:GLN:HE22	0.97	1.06
1:B:396:ASP:OD2	1:C:467:THR:HG21	1.55	1.06
1:E:265:LYS:HE3	1:F:245:LEU:CD2	1.55	1.06
1:I:396:ASP:OD1	1:J:467:THR:HG22	1.55	1.06
1:K:349:SER:OG	2:W:102:LYS:HG2	1.54	1.06
1:K:465:ALA:HB2	1:K:475:ILE:HD11	1.30	1.06
1:L:349:SER:OG	2:X:102:LYS:HG2	1.54	1.06
1:A:396:ASP:OD1	1:B:467:THR:HG22	1.55	1.06
1:E:396:ASP:OD2	1:F:467:THR:HG21	1.55	1.06
1:K:294:LEU:HG	1:L:273:LEU:HD22	1.13	1.06
1:F:465:ALA:HB2	1:F:475:ILE:HD11	1.30	1.06
1:K:256:GLN:HE22	1:L:231:ARG:HD2	0.97	1.06
1:A:424:LYS:HB2	1:A:441:LEU:HD13	1.35	1.06
1:D:396:ASP:OD2	1:E:467:THR:HG21	1.55	1.06
1:K:424:LYS:HB2	1:K:441:LEU:HD13	1.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:424:LYS:HB2	1:L:441:LEU:HD13	1.35	1.06
1:A:349:SER:OG	2:M:102:LYS:HG2	1.54	1.06
1:C:349:SER:OG	2:O:102:LYS:HG2	1.54	1.06
1:I:349:SER:OG	2:U:102:LYS:HG2	1.54	1.05
1:B:295:ASN:H	1:C:273:LEU:HD21	1.04	1.05
1:C:396:ASP:OD2	1:D:467:THR:HG21	1.55	1.05
1:H:294:LEU:C	1:I:273:LEU:HD21	1.82	1.05
1:J:349:SER:OG	2:V:102:LYS:HG2	1.54	1.05
1:H:396:ASP:OD1	1:I:467:THR:HG22	1.55	1.05
1:I:396:ASP:CG	1:J:467:THR:CG2	2.30	1.05
1:I:396:ASP:OD2	1:J:467:THR:HG21	1.55	1.05
1:J:396:ASP:CG	1:K:467:THR:CG2	2.30	1.05
1:A:396:ASP:OD2	1:B:467:THR:HG21	1.55	1.05
1:C:295:ASN:H	1:D:273:LEU:HD21	1.04	1.05
1:G:294:LEU:C	1:H:273:LEU:HD21	1.82	1.05
1:G:396:ASP:OD2	1:H:467:THR:HG21	1.55	1.05
1:I:294:LEU:C	1:J:273:LEU:HD21	1.82	1.05
1:A:295:ASN:H	1:B:273:LEU:HD21	1.04	1.04
1:B:261:ILE:HG12	1:C:229:ASP:CG	1.82	1.04
1:C:261:ILE:HG12	1:D:229:ASP:CG	1.82	1.04
1:D:261:ILE:HG12	1:E:229:ASP:CG	1.82	1.04
1:F:294:LEU:C	1:G:273:LEU:HD21	1.82	1.04
1:G:396:ASP:OD1	1:H:467:THR:HG22	1.55	1.04
1:H:396:ASP:CG	1:I:467:THR:CG2	2.30	1.04
1:D:265:LYS:HE3	1:E:245:LEU:CD2	1.55	1.04
1:E:261:ILE:HG12	1:F:229:ASP:CG	1.82	1.04
1:F:396:ASP:OD1	1:G:467:THR:HG22	1.55	1.04
1:J:294:LEU:C	1:K:273:LEU:HD21	1.82	1.04
1:A:261:ILE:HG12	1:B:229:ASP:CG	1.82	1.04
1:E:294:LEU:C	1:F:273:LEU:HD21	1.82	1.04
1:J:396:ASP:OD1	1:K:467:THR:HG22	1.55	1.04
1:K:294:LEU:C	1:L:273:LEU:HD21	1.82	1.04
1:K:396:ASP:OD2	1:L:467:THR:HG21	1.55	1.04
1:A:245:LEU:CD2	1:L:265:LYS:HE3	1.55	1.04
1:A:467:THR:HG21	1:L:396:ASP:OD2	1.55	1.04
1:D:389:VAL:CG2	1:E:376:ASP:CG	2.31	1.04
1:F:396:ASP:OD2	1:G:467:THR:HG21	1.55	1.04
1:G:396:ASP:CG	1:H:467:THR:CG2	2.30	1.04
1:J:343:PHE:CB	1:K:469:GLY:CA	2.36	1.04
1:K:389:VAL:CG2	1:L:376:ASP:CG	2.31	1.04
1:F:261:ILE:HG12	1:G:229:ASP:CG	1.82	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:261:ILE:HG12	1:H:229:ASP:CG	1.82	1.04
1:I:389:VAL:CG2	1:J:376:ASP:CG	2.31	1.04
1:A:229:ASP:CG	1:L:261:ILE:HG12	1.82	1.03
1:A:231:ARG:CD	1:L:256:GLN:HE22	1.72	1.03
1:B:256:GLN:HE22	1:C:231:ARG:CD	1.71	1.03
1:H:261:ILE:HG12	1:I:229:ASP:CG	1.82	1.03
1:H:396:ASP:OD2	1:I:467:THR:HG21	1.55	1.03
1:K:256:GLN:HE22	1:L:231:ARG:CD	1.71	1.03
1:A:256:GLN:HE22	1:B:231:ARG:CD	1.72	1.03
1:A:273:LEU:HD21	1:L:294:LEU:C	1.82	1.03
1:B:389:VAL:CG2	1:C:376:ASP:CG	2.31	1.03
1:C:256:GLN:HE22	1:D:231:ARG:CD	1.72	1.03
1:D:294:LEU:C	1:E:273:LEU:HD21	1.82	1.03
1:F:389:VAL:CG2	1:G:376:ASP:CG	2.31	1.03
1:I:261:ILE:HG12	1:J:229:ASP:CG	1.82	1.03
1:K:343:PHE:CB	1:L:469:GLY:CA	2.36	1.03
1:A:467:THR:HG22	1:L:396:ASP:OD1	1.55	1.03
1:B:396:ASP:CG	1:C:467:THR:CG2	2.30	1.03
1:C:396:ASP:CG	1:D:467:THR:CG2	2.30	1.03
1:D:256:GLN:HE22	1:E:231:ARG:CD	1.72	1.03
1:D:295:ASN:H	1:E:273:LEU:HD21	1.04	1.03
1:E:256:GLN:HE22	1:F:231:ARG:CD	1.71	1.03
1:F:396:ASP:CG	1:G:467:THR:CG2	2.30	1.03
1:G:293:ARG:HH12	1:H:272:THR:HG21	1.07	1.03
1:G:389:VAL:CG2	1:H:376:ASP:CG	2.31	1.03
1:H:343:PHE:CB	1:I:469:GLY:CA	2.36	1.03
1:K:261:ILE:HG12	1:L:229:ASP:CG	1.82	1.03
1:A:389:VAL:CG2	1:B:376:ASP:CG	2.31	1.03
1:B:294:LEU:C	1:C:273:LEU:HD21	1.82	1.03
1:C:294:LEU:C	1:D:273:LEU:HD21	1.82	1.03
1:C:396:ASP:OD1	1:D:467:THR:HG22	1.55	1.03
1:E:389:VAL:CG2	1:F:376:ASP:CG	2.31	1.03
1:H:389:VAL:CG2	1:I:376:ASP:CG	2.31	1.03
1:J:256:GLN:HE22	1:K:231:ARG:CD	1.72	1.03
1:A:273:LEU:HD21	1:L:295:ASN:H	1.04	1.03
1:A:376:ASP:CG	1:L:389:VAL:CG2	2.31	1.03
1:C:265:LYS:HE3	1:D:245:LEU:CD2	1.55	1.03
1:F:256:GLN:HE22	1:G:231:ARG:CD	1.72	1.03
1:I:256:GLN:HE22	1:J:231:ARG:CD	1.72	1.03
1:J:261:ILE:HG12	1:K:229:ASP:CG	1.82	1.03
1:K:293:ARG:HH12	1:L:272:THR:HG21	1.07	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:LEU:C	1:B:273:LEU:HD21	1.82	1.02
1:C:295:ASN:N	1:D:273:LEU:CD2	2.13	1.02
1:C:389:VAL:CG2	1:D:376:ASP:CG	2.31	1.02
1:D:396:ASP:OD1	1:E:467:THR:HG22	1.55	1.02
1:H:256:GLN:HE22	1:I:231:ARG:CD	1.71	1.02
1:E:396:ASP:CG	1:F:467:THR:CG2	2.30	1.02
1:F:295:ASN:N	1:G:273:LEU:CD2	2.13	1.02
1:G:256:GLN:HE22	1:H:231:ARG:CD	1.72	1.02
1:G:343:PHE:CB	1:H:469:GLY:CA	2.36	1.02
1:I:343:PHE:CB	1:J:469:GLY:CA	2.36	1.02
1:J:389:VAL:CG2	1:K:376:ASP:CG	2.31	1.02
1:J:396:ASP:OD2	1:K:467:THR:HG21	1.55	1.02
1:G:343:PHE:CD1	1:H:469:GLY:HA2	1.95	1.02
1:I:293:ARG:HH12	1:J:272:THR:HG21	1.07	1.02
1:A:343:PHE:CB	1:B:469:GLY:CA	2.36	1.02
1:B:396:ASP:OD1	1:C:467:THR:HG22	1.55	1.02
1:D:396:ASP:CG	1:E:467:THR:CG2	2.30	1.02
1:F:343:PHE:CD1	1:G:469:GLY:HA2	1.95	1.02
1:K:343:PHE:CD1	1:L:469:GLY:HA2	1.95	1.02
1:K:347:LYS:HZ2	2:W:104:GLY:HA2	1.21	1.02
1:A:469:GLY:CA	1:L:343:PHE:CB	2.36	1.02
1:A:469:GLY:HA2	1:L:343:PHE:CD1	1.95	1.02
1:B:265:LYS:HE3	1:C:245:LEU:CD2	1.55	1.02
1:J:343:PHE:CD1	1:K:469:GLY:HA2	1.95	1.01
1:A:343:PHE:CD1	1:B:469:GLY:HA2	1.95	1.01
1:B:343:PHE:CD1	1:C:469:GLY:HA2	1.95	1.01
1:H:343:PHE:CD1	1:I:469:GLY:HA2	1.95	1.01
1:A:265:LYS:HE3	1:B:245:LEU:CD2	1.55	1.01
1:D:295:ASN:N	1:E:273:LEU:CD2	2.13	1.01
1:B:343:PHE:CB	1:C:469:GLY:CA	2.36	1.01
1:E:343:PHE:CD1	1:F:469:GLY:HA2	1.95	1.01
1:C:343:PHE:CD1	1:D:469:GLY:HA2	1.95	1.01
1:A:467:THR:CG2	1:L:396:ASP:CG	2.30	1.00
1:D:293:ARG:HH12	1:E:272:THR:HG21	1.07	1.00
1:E:295:ASN:H	1:F:273:LEU:HD21	1.04	1.00
1:K:295:ASN:H	1:L:273:LEU:HD21	1.04	1.00
1:D:343:PHE:CD1	1:E:469:GLY:HA2	1.95	1.00
1:I:343:PHE:CD1	1:J:469:GLY:HA2	1.95	1.00
1:K:265:LYS:HE2	1:L:245:LEU:CB	1.64	1.00
1:E:343:PHE:CB	1:F:469:GLY:CA	2.36	1.00
1:A:347:LYS:HZ2	2:M:104:GLY:HA2	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:343:PHE:CB	1:G:469:GLY:CA	2.36	1.00
1:A:293:ARG:HH12	1:B:272:THR:HG21	1.07	0.99
1:D:343:PHE:CB	1:E:469:GLY:CA	2.36	0.99
1:H:373:VAL:HG21	1:H:412:ILE:HD11	1.43	0.99
1:E:396:ASP:OD1	1:F:467:THR:HG22	1.55	0.99
1:J:265:LYS:HE2	1:K:245:LEU:CB	1.64	0.99
1:J:295:ASN:H	1:K:273:LEU:HD21	1.04	0.99
1:G:373:VAL:HG21	1:G:412:ILE:HD11	1.43	0.99
1:I:373:VAL:HG21	1:I:412:ILE:HD11	1.43	0.99
1:A:396:ASP:CG	1:B:467:THR:CG2	2.30	0.99
1:F:295:ASN:H	1:G:273:LEU:HD21	1.04	0.99
1:B:347:LYS:NZ	2:N:104:GLY:CA	2.26	0.98
1:G:347:LYS:NZ	2:S:104:GLY:CA	2.26	0.98
1:C:343:PHE:CB	1:D:469:GLY:CA	2.36	0.98
1:C:347:LYS:NZ	2:O:104:GLY:CA	2.26	0.98
1:F:347:LYS:NZ	2:R:104:GLY:CA	2.26	0.98
1:G:299:GLN:NE2	1:H:227:ASN:ND2	2.09	0.98
1:A:347:LYS:NZ	2:M:104:GLY:CA	2.26	0.98
1:D:347:LYS:NZ	2:P:104:GLY:CA	2.26	0.98
1:E:347:LYS:NZ	2:Q:104:GLY:CA	2.26	0.98
1:K:396:ASP:CG	1:L:467:THR:CG2	2.30	0.98
1:H:295:ASN:N	1:I:273:LEU:CD2	2.13	0.98
1:H:299:GLN:NE2	1:I:227:ASN:ND2	2.09	0.98
1:H:347:LYS:NZ	2:T:104:GLY:CA	2.26	0.98
1:A:424:LYS:HD2	1:A:440:ALA:HA	1.46	0.98
1:L:347:LYS:NZ	2:X:104:GLY:CA	2.26	0.98
1:B:424:LYS:HD2	1:B:440:ALA:HA	1.46	0.98
1:L:424:LYS:HD2	1:L:440:ALA:HA	1.46	0.98
1:C:424:LYS:HD2	1:C:440:ALA:HA	1.46	0.98
1:K:424:LYS:HD2	1:K:440:ALA:HA	1.46	0.98
1:F:373:VAL:HG21	1:F:412:ILE:HD11	1.43	0.98
1:J:373:VAL:HG21	1:J:412:ILE:HD11	1.43	0.98
1:G:295:ASN:H	1:H:273:LEU:HD21	1.04	0.97
1:I:295:ASN:H	1:J:273:LEU:HD21	1.04	0.97
1:A:273:LEU:CD2	1:L:295:ASN:N	2.13	0.97
1:D:424:LYS:HD2	1:D:440:ALA:HA	1.46	0.97
1:K:347:LYS:NZ	2:W:104:GLY:CA	2.26	0.97
1:C:347:LYS:HZ1	2:O:104:GLY:HA2	1.16	0.97
1:E:299:GLN:NE2	1:F:227:ASN:ND2	2.09	0.97
1:I:347:LYS:NZ	2:U:104:GLY:CA	2.26	0.97
1:A:227:ASN:ND2	1:L:299:GLN:NE2	2.09	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:299:GLN:NE2	1:B:227:ASN:ND2	2.09	0.97
1:B:299:GLN:NE2	1:C:227:ASN:ND2	2.09	0.97
1:C:373:VAL:HG21	1:C:412:ILE:HD11	1.43	0.97
1:I:299:GLN:NE2	1:J:227:ASN:ND2	2.09	0.97
1:J:424:LYS:HD2	1:J:440:ALA:HA	1.46	0.97
1:K:373:VAL:HG21	1:K:412:ILE:HD11	1.43	0.97
1:D:299:GLN:NE2	1:E:227:ASN:ND2	2.09	0.97
1:L:373:VAL:HG21	1:L:412:ILE:HD11	1.43	0.97
1:C:299:GLN:NE2	1:D:227:ASN:ND2	2.09	0.97
1:H:295:ASN:H	1:I:273:LEU:HD21	1.04	0.97
1:B:295:ASN:N	1:C:273:LEU:CD2	2.13	0.97
1:E:347:LYS:HZ1	2:Q:104:GLY:HA2	1.19	0.97
1:J:347:LYS:NZ	2:V:104:GLY:CA	2.26	0.97
1:D:373:VAL:HG21	1:D:412:ILE:HD11	1.43	0.96
1:K:299:GLN:NE2	1:L:227:ASN:ND2	2.09	0.96
1:E:295:ASN:N	1:F:273:LEU:CD2	2.13	0.96
1:E:373:VAL:HG21	1:E:412:ILE:HD11	1.43	0.96
1:E:424:LYS:HD2	1:E:440:ALA:HA	1.46	0.96
1:I:295:ASN:N	1:J:273:LEU:CD2	2.13	0.96
1:F:424:LYS:HD2	1:F:440:ALA:HA	1.46	0.96
1:G:295:ASN:N	1:H:273:LEU:CD2	2.13	0.96
1:G:424:LYS:HD2	1:G:440:ALA:HA	1.46	0.96
1:A:373:VAL:HG21	1:A:412:ILE:HD11	1.43	0.96
1:B:373:VAL:HG21	1:B:412:ILE:HD11	1.43	0.96
1:J:295:ASN:N	1:K:273:LEU:CD2	2.13	0.96
1:H:424:LYS:HD2	1:H:440:ALA:HA	1.46	0.95
1:D:492:VAL:HG11	1:D:499:ILE:HG13	1.48	0.95
1:E:492:VAL:HG11	1:E:499:ILE:HG13	1.48	0.95
1:H:492:VAL:HG11	1:H:499:ILE:HG13	1.48	0.95
1:I:424:LYS:HD2	1:I:440:ALA:HA	1.46	0.95
1:G:492:VAL:HG11	1:G:499:ILE:HG13	1.48	0.95
1:A:295:ASN:N	1:B:273:LEU:CD2	2.13	0.95
1:K:294:LEU:CG	1:L:273:LEU:HD22	1.97	0.95
1:A:492:VAL:HG11	1:A:499:ILE:HG13	1.48	0.95
1:B:492:VAL:HG11	1:B:499:ILE:HG13	1.48	0.95
2:N:95:MET:HG2	2:N:113:ALA:HB2	1.49	0.95
2:O:95:MET:HG2	2:O:113:ALA:HB2	1.49	0.95
1:F:294:LEU:CG	1:G:273:LEU:CD2	2.45	0.95
1:I:265:LYS:HE2	1:J:245:LEU:CB	1.64	0.95
2:P:95:MET:HG2	2:P:113:ALA:HB2	1.49	0.95
1:A:294:LEU:CG	1:B:273:LEU:HD22	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:299:GLN:NE2	1:K:227:ASN:ND2	2.09	0.94
1:B:294:LEU:CG	1:C:273:LEU:HD22	1.97	0.94
1:D:294:LEU:CG	1:E:273:LEU:HD22	1.97	0.94
1:I:294:LEU:CG	1:J:273:LEU:HD22	1.97	0.94
2:M:95:MET:HG2	2:M:113:ALA:HB2	1.49	0.94
1:H:294:LEU:CG	1:I:273:LEU:HD22	1.97	0.94
1:I:347:LYS:HZ2	2:U:104:GLY:HA2	1.13	0.94
1:C:294:LEU:CG	1:D:273:LEU:CD2	2.45	0.94
1:F:265:LYS:HE2	1:G:245:LEU:CB	1.64	0.94
1:F:294:LEU:CG	1:G:273:LEU:HD22	1.97	0.94
1:F:347:LYS:HZ1	2:R:104:GLY:HA2	1.18	0.94
1:E:294:LEU:CG	1:F:273:LEU:CD2	2.45	0.94
1:J:347:LYS:HZ2	2:V:104:GLY:HA2	1.16	0.94
1:A:273:LEU:CD2	1:L:294:LEU:CG	2.45	0.94
1:K:295:ASN:N	1:L:273:LEU:CD2	2.13	0.94
1:C:294:LEU:CG	1:D:273:LEU:HD22	1.97	0.94
1:D:294:LEU:CG	1:E:273:LEU:CD2	2.45	0.94
1:J:294:LEU:CG	1:K:273:LEU:CD2	2.45	0.94
2:T:95:MET:HG2	2:T:113:ALA:HB2	1.49	0.94
2:X:95:MET:HG2	2:X:113:ALA:HB2	1.49	0.94
1:H:294:LEU:CG	1:I:273:LEU:CD2	2.45	0.94
1:J:294:LEU:CG	1:K:273:LEU:HD22	1.97	0.94
1:J:492:VAL:HG11	1:J:499:ILE:HG13	1.48	0.94
1:K:492:VAL:HG11	1:K:499:ILE:HG13	1.48	0.94
2:U:95:MET:HG2	2:U:113:ALA:HB2	1.49	0.94
1:A:343:PHE:CG	1:B:469:GLY:HA2	2.04	0.93
1:C:265:LYS:HE2	1:D:245:LEU:CB	1.64	0.93
1:G:294:LEU:CG	1:H:273:LEU:CD2	2.45	0.93
2:Q:95:MET:HG2	2:Q:113:ALA:HB2	1.49	0.93
1:A:273:LEU:HD22	1:L:294:LEU:CG	1.97	0.93
1:A:294:LEU:CG	1:B:273:LEU:CD2	2.45	0.93
1:G:294:LEU:CG	1:H:273:LEU:HD22	1.97	0.93
1:F:343:PHE:CG	1:G:469:GLY:HA2	2.04	0.93
1:I:294:LEU:CG	1:J:273:LEU:CD2	2.45	0.93
1:J:406:MET:HB3	1:K:468:THR:CG2	1.99	0.93
1:A:406:MET:HB3	1:B:468:THR:CG2	1.99	0.93
1:D:343:PHE:CG	1:E:469:GLY:HA2	2.04	0.93
1:E:406:MET:HB3	1:F:468:THR:CG2	1.99	0.93
1:G:406:MET:HB3	1:H:468:THR:CG2	1.99	0.93
1:C:343:PHE:CG	1:D:469:GLY:HA2	2.04	0.93
1:H:265:LYS:HE2	1:I:245:LEU:CB	1.64	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:343:PHE:CG	1:L:469:GLY:HA2	2.04	0.93
1:C:492:VAL:HG11	1:C:499:ILE:HG13	1.48	0.93
1:D:406:MET:HB3	1:E:468:THR:CG2	1.99	0.93
1:H:406:MET:HB3	1:I:468:THR:CG2	1.99	0.93
1:F:347:LYS:HZ2	2:R:104:GLY:HA2	1.16	0.93
1:K:294:LEU:CG	1:L:273:LEU:CD2	2.45	0.93
1:K:406:MET:HB3	1:L:468:THR:CG2	1.99	0.93
2:S:95:MET:HG2	2:S:113:ALA:HB2	1.49	0.93
1:D:347:LYS:CE	2:P:104:GLY:HA2	1.99	0.93
1:F:492:VAL:HG11	1:F:499:ILE:HG13	1.48	0.93
1:B:294:LEU:CG	1:C:273:LEU:CD2	2.45	0.93
1:B:406:MET:HB3	1:C:468:THR:CG2	1.99	0.93
1:C:347:LYS:CE	2:O:104:GLY:HA2	1.99	0.93
1:E:294:LEU:CG	1:F:273:LEU:HD22	1.97	0.93
1:H:343:PHE:CG	1:I:469:GLY:HA2	2.04	0.93
2:W:95:MET:HG2	2:W:113:ALA:HB2	1.49	0.93
1:C:347:LYS:HZ2	2:O:104:GLY:HA2	1.17	0.92
1:J:343:PHE:CG	1:K:469:GLY:HA2	2.04	0.92
2:V:95:MET:HG2	2:V:113:ALA:HB2	1.49	0.92
1:A:468:THR:CG2	1:L:406:MET:HB3	1.99	0.92
1:E:347:LYS:CE	2:Q:104:GLY:HA2	1.99	0.92
1:F:459:ILE:HD13	1:F:509:LEU:HD11	1.50	0.92
1:I:343:PHE:CG	1:J:469:GLY:HA2	2.04	0.92
1:B:347:LYS:CE	2:N:104:GLY:HA2	1.99	0.92
1:E:343:PHE:CG	1:F:469:GLY:HA2	2.04	0.92
1:E:459:ILE:HD13	1:E:509:LEU:HD11	1.50	0.92
1:H:347:LYS:HZ2	2:T:104:GLY:HA2	1.12	0.92
1:I:492:VAL:HG11	1:I:499:ILE:HG13	1.48	0.92
1:B:343:PHE:CG	1:C:469:GLY:HA2	2.04	0.92
1:L:347:LYS:HZ2	2:X:104:GLY:HA2	1.17	0.92
1:I:347:LYS:CE	2:U:104:GLY:HA2	1.99	0.92
1:C:406:MET:HB3	1:D:468:THR:CG2	1.99	0.92
1:G:265:LYS:HE2	1:H:245:LEU:CB	1.64	0.92
1:H:347:LYS:CE	2:T:104:GLY:HA2	1.99	0.92
1:I:406:MET:HB3	1:J:468:THR:CG2	1.99	0.92
1:A:469:GLY:HA2	1:L:343:PHE:CG	2.04	0.92
1:J:347:LYS:CE	2:V:104:GLY:HA2	1.99	0.92
1:L:347:LYS:HZ1	2:X:104:GLY:HA2	1.16	0.92
1:A:347:LYS:HZ1	2:M:104:GLY:HA2	1.12	0.92
1:F:406:MET:HB3	1:G:468:THR:CG2	1.99	0.92
1:G:347:LYS:CE	2:S:104:GLY:HA2	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:LYS:CE	2:M:104:GLY:HA2	1.99	0.92
1:G:343:PHE:CG	1:H:469:GLY:HA2	2.04	0.92
1:F:347:LYS:CE	2:R:104:GLY:HA2	1.99	0.91
1:J:347:LYS:HZ1	2:V:104:GLY:HA2	1.18	0.91
1:L:492:VAL:HG11	1:L:499:ILE:HG13	1.48	0.91
1:C:459:ILE:HD13	1:C:509:LEU:HD11	1.50	0.91
1:H:459:ILE:HD13	1:H:509:LEU:HD11	1.50	0.91
1:I:343:PHE:HB3	1:J:470:ASN:N	1.85	0.91
1:K:347:LYS:CE	2:W:104:GLY:HA2	1.99	0.91
1:F:299:GLN:NE2	1:G:227:ASN:ND2	2.09	0.91
1:G:347:LYS:HZ1	2:S:104:GLY:HA2	1.22	0.91
1:H:343:PHE:HB3	1:I:470:ASN:N	1.85	0.91
2:R:95:MET:HG2	2:R:113:ALA:HB2	1.49	0.91
1:G:351:ASP:OD2	2:S:99:GLY:CA	2.19	0.91
1:A:245:LEU:CB	1:L:265:LYS:HE2	1.64	0.91
1:B:351:ASP:OD2	2:N:99:GLY:CA	2.19	0.91
1:E:351:ASP:OD2	2:Q:99:GLY:CA	2.19	0.91
1:J:459:ILE:HD13	1:J:509:LEU:HD11	1.50	0.91
1:D:347:LYS:HZ1	2:P:104:GLY:HA2	1.08	0.91
1:E:265:LYS:HE2	1:F:245:LEU:CB	1.64	0.91
1:G:343:PHE:HB3	1:H:470:ASN:N	1.85	0.91
1:L:347:LYS:CE	2:X:104:GLY:HA2	1.99	0.91
1:A:459:ILE:HD13	1:A:509:LEU:HD11	1.50	0.91
1:D:347:LYS:HZ2	2:P:104:GLY:HA2	1.26	0.91
1:J:343:PHE:HB3	1:K:470:ASN:N	1.85	0.91
1:K:351:ASP:OD2	2:W:99:GLY:CA	2.19	0.91
1:D:459:ILE:HD13	1:D:509:LEU:HD11	1.50	0.90
1:K:459:ILE:HD13	1:K:509:LEU:HD11	1.50	0.90
1:B:347:LYS:HZ2	2:N:104:GLY:HA2	1.28	0.90
1:G:459:ILE:HD13	1:G:509:LEU:HD11	1.50	0.90
1:H:382:MET:HE2	1:H:384:LEU:HG	1.53	0.90
1:I:351:ASP:OD2	2:U:99:GLY:CA	2.19	0.90
1:I:459:ILE:HD13	1:I:509:LEU:HD11	1.50	0.90
1:A:470:ASN:N	1:L:343:PHE:HB3	1.85	0.90
1:C:351:ASP:OD2	2:O:99:GLY:CA	2.19	0.90
1:D:351:ASP:OD2	2:P:99:GLY:CA	2.19	0.90
1:L:351:ASP:OD2	2:X:99:GLY:CA	2.19	0.90
1:A:343:PHE:HB3	1:B:470:ASN:N	1.85	0.90
1:B:459:ILE:HD13	1:B:509:LEU:HD11	1.50	0.90
1:E:257:HIS:NE2	1:F:232:LYS:O	2.05	0.90
1:I:457:ARG:HH21	1:I:460:LEU:HD12	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:459:ILE:HD13	1:L:509:LEU:HD11	1.50	0.90
1:J:382:MET:HE2	1:J:384:LEU:HG	1.53	0.90
1:L:457:ARG:HH21	1:L:460:LEU:HD12	1.36	0.90
1:D:343:PHE:HB3	1:E:470:ASN:N	1.85	0.90
1:F:257:HIS:NE2	1:G:232:LYS:O	2.05	0.90
1:K:457:ARG:HH21	1:K:460:LEU:HD12	1.36	0.90
1:G:382:MET:HE2	1:G:384:LEU:HG	1.53	0.90
1:K:354:ASP:N	1:K:383:THR:HG22	1.87	0.90
1:A:351:ASP:OD2	2:M:99:GLY:CA	2.19	0.90
1:B:372:ILE:HG12	1:B:413:VAL:HG21	1.54	0.90
1:D:257:HIS:NE2	1:E:232:LYS:O	2.05	0.90
1:E:343:PHE:HB3	1:F:470:ASN:N	1.85	0.90
1:G:457:ARG:HH21	1:G:460:LEU:HD12	1.36	0.90
1:H:351:ASP:OD2	2:T:99:GLY:CA	2.19	0.90
1:I:347:LYS:HZ1	2:U:104:GLY:HA2	1.21	0.90
1:A:457:ARG:HH21	1:A:460:LEU:HD12	1.36	0.90
1:C:372:ILE:HG12	1:C:413:VAL:HG21	1.54	0.90
1:F:343:PHE:HB3	1:G:470:ASN:N	1.85	0.90
1:L:354:ASP:N	1:L:383:THR:HG22	1.86	0.90
1:B:354:ASP:N	1:B:383:THR:HG22	1.87	0.89
1:D:265:LYS:HE2	1:E:245:LEU:CB	1.64	0.89
1:E:355:VAL:C	1:E:381:LYS:HG3	1.97	0.89
1:G:257:HIS:NE2	1:H:232:LYS:O	2.05	0.89
1:J:351:ASP:OD2	2:V:99:GLY:CA	2.19	0.89
1:B:355:VAL:C	1:B:381:LYS:HG3	1.97	0.89
1:F:351:ASP:OD2	2:R:99:GLY:CA	2.19	0.89
1:H:347:LYS:HZ1	2:T:104:GLY:HA2	1.22	0.89
1:I:354:ASP:N	1:I:383:THR:HG22	1.86	0.89
1:J:457:ARG:HH21	1:J:460:LEU:HD12	1.36	0.89
1:K:382:MET:HE2	1:K:384:LEU:HG	1.53	0.89
1:A:354:ASP:N	1:A:383:THR:HG22	1.87	0.89
1:A:372:ILE:HG12	1:A:413:VAL:HG21	1.54	0.89
1:B:343:PHE:HB3	1:C:470:ASN:N	1.85	0.89
1:C:343:PHE:HB3	1:D:470:ASN:N	1.85	0.89
1:G:347:LYS:HZ2	2:S:104:GLY:HA2	1.12	0.89
1:G:354:ASP:N	1:G:383:THR:HG22	1.87	0.89
1:K:343:PHE:HB3	1:L:470:ASN:N	1.85	0.89
1:K:347:LYS:HZ1	2:W:104:GLY:HA2	1.12	0.89
1:L:355:VAL:C	1:L:381:LYS:HG3	1.97	0.89
1:C:257:HIS:NE2	1:D:232:LYS:O	2.05	0.89
1:E:382:MET:HE2	1:E:384:LEU:HG	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:355:VAL:C	1:H:381:LYS:HG3	1.97	0.89
1:A:355:VAL:C	1:A:381:LYS:HG3	1.97	0.89
1:B:457:ARG:HH21	1:B:460:LEU:HD12	1.36	0.89
1:D:355:VAL:C	1:D:381:LYS:HG3	1.97	0.89
1:D:372:ILE:HG12	1:D:413:VAL:HG21	1.54	0.89
1:E:354:ASP:N	1:E:383:THR:HG22	1.87	0.89
1:H:257:HIS:NE2	1:I:232:LYS:O	2.05	0.89
1:K:355:VAL:C	1:K:381:LYS:HG3	1.97	0.89
1:C:424:LYS:HE2	1:C:441:LEU:CD1	2.03	0.89
1:D:354:ASP:N	1:D:383:THR:HG22	1.87	0.89
1:G:355:VAL:C	1:G:381:LYS:HG3	1.97	0.89
1:H:396:ASP:OD1	1:I:467:THR:HG21	1.67	0.89
1:H:424:LYS:HB2	1:H:441:LEU:CD1	2.03	0.89
1:J:257:HIS:NE2	1:K:232:LYS:O	2.05	0.89
1:F:424:LYS:HE2	1:F:441:LEU:CD1	2.03	0.89
1:I:349:SER:OG	2:U:102:LYS:CG	2.21	0.89
1:K:257:HIS:NE2	1:L:232:LYS:O	2.05	0.89
1:B:257:HIS:NE2	1:C:232:LYS:O	2.05	0.89
1:I:257:HIS:NE2	1:J:232:LYS:O	2.05	0.89
1:B:349:SER:OG	2:N:102:LYS:CG	2.21	0.88
1:E:424:LYS:HE2	1:E:441:LEU:CD1	2.03	0.88
1:G:349:SER:OG	2:S:102:LYS:CG	2.21	0.88
1:H:424:LYS:HE2	1:H:441:LEU:CD1	2.03	0.88
1:L:372:ILE:HG12	1:L:413:VAL:HG21	1.54	0.88
1:A:232:LYS:O	1:L:257:HIS:NE2	2.05	0.88
1:A:418:ARG:HD2	1:A:481:VAL:CB	2.04	0.88
1:C:396:ASP:OD1	1:D:467:THR:HG21	1.67	0.88
1:E:424:LYS:HB2	1:E:441:LEU:CD1	2.03	0.88
1:J:355:VAL:C	1:J:381:LYS:HG3	1.97	0.88
1:J:418:ARG:HD2	1:J:481:VAL:CB	2.04	0.88
1:A:257:HIS:NE2	1:B:232:LYS:O	2.05	0.88
1:C:349:SER:OG	2:O:102:LYS:CG	2.21	0.88
1:C:457:ARG:HH21	1:C:460:LEU:HD12	1.36	0.88
1:G:418:ARG:HD2	1:G:481:VAL:CB	2.04	0.88
1:H:349:SER:OG	2:T:102:LYS:CG	2.21	0.88
1:K:349:SER:OG	2:W:102:LYS:CG	2.21	0.88
1:A:261:ILE:CG1	1:B:229:ASP:OD1	2.21	0.88
1:A:424:LYS:HE2	1:A:441:LEU:CD1	2.03	0.88
1:C:355:VAL:C	1:C:381:LYS:HG3	1.97	0.88
1:E:372:ILE:HG12	1:E:413:VAL:HG21	1.54	0.88
1:F:424:LYS:HB2	1:F:441:LEU:CD1	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:424:LYS:HB2	1:I:441:LEU:CD1	2.03	0.88
1:E:347:LYS:HZ2	2:Q:104:GLY:HA2	1.14	0.88
1:F:354:ASP:N	1:F:383:THR:HG22	1.86	0.88
1:F:355:VAL:C	1:F:381:LYS:HG3	1.97	0.88
1:G:424:LYS:HB2	1:G:441:LEU:CD1	2.03	0.88
1:H:354:ASP:N	1:H:383:THR:HG22	1.87	0.88
1:J:354:ASP:N	1:J:383:THR:HG22	1.87	0.88
1:B:261:ILE:CG1	1:C:229:ASP:OD1	2.20	0.88
1:D:424:LYS:HE2	1:D:441:LEU:CD1	2.03	0.88
1:A:295:ASN:H	1:B:273:LEU:CG	1.76	0.88
1:A:343:PHE:CA	1:B:470:ASN:H	1.87	0.88
1:A:382:MET:HE2	1:A:384:LEU:HG	1.53	0.88
1:C:418:ARG:HD2	1:C:481:VAL:CB	2.04	0.88
1:F:349:SER:OG	2:R:102:LYS:CG	2.21	0.88
1:H:343:PHE:CA	1:I:470:ASN:H	1.87	0.88
1:A:229:ASP:OD1	1:L:261:ILE:CG1	2.20	0.88
1:D:382:MET:HE2	1:D:384:LEU:HG	1.53	0.88
1:D:457:ARG:HH21	1:D:460:LEU:HD12	1.36	0.88
1:E:418:ARG:HD2	1:E:481:VAL:CB	2.04	0.88
1:H:418:ARG:HD2	1:H:481:VAL:CB	2.04	0.88
1:I:355:VAL:C	1:I:381:LYS:HG3	1.97	0.88
1:J:349:SER:OG	2:V:102:LYS:CG	2.21	0.88
1:K:424:LYS:HB2	1:K:441:LEU:CD1	2.03	0.88
1:E:457:ARG:HH21	1:E:460:LEU:HD12	1.36	0.88
1:F:382:MET:HE2	1:F:384:LEU:HG	1.54	0.88
1:F:457:ARG:HH21	1:F:460:LEU:HD12	1.36	0.88
1:J:424:LYS:HE2	1:J:441:LEU:CD1	2.03	0.88
1:J:424:LYS:HB2	1:J:441:LEU:CD1	2.03	0.88
1:K:343:PHE:CA	1:L:470:ASN:H	1.87	0.88
1:L:418:ARG:HD2	1:L:481:VAL:CB	2.04	0.88
1:B:382:MET:HE2	1:B:384:LEU:HG	1.53	0.87
1:D:387:LYS:HB3	2:P:102:LYS:CD	2.05	0.87
1:G:424:LYS:HE2	1:G:441:LEU:CD1	2.03	0.87
1:H:457:ARG:HH21	1:H:460:LEU:HD12	1.36	0.87
1:I:382:MET:HE2	1:I:384:LEU:HG	1.54	0.87
1:J:343:PHE:CA	1:K:470:ASN:H	1.87	0.87
1:K:418:ARG:HD2	1:K:481:VAL:CB	2.04	0.87
1:L:347:LYS:HE3	2:X:104:GLY:N	1.90	0.87
1:B:347:LYS:HE3	2:N:104:GLY:N	1.90	0.87
1:F:347:LYS:HE3	2:R:104:GLY:N	1.90	0.87
1:I:418:ARG:HD2	1:I:481:VAL:CB	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:424:LYS:HE2	1:L:441:LEU:CD1	2.03	0.87
1:A:347:LYS:HE3	2:M:104:GLY:N	1.90	0.87
1:B:424:LYS:HE2	1:B:441:LEU:CD1	2.03	0.87
1:C:343:PHE:CA	1:D:470:ASN:H	1.87	0.87
1:D:347:LYS:HE3	2:P:104:GLY:N	1.90	0.87
1:F:343:PHE:CA	1:G:470:ASN:H	1.87	0.87
1:K:372:ILE:HG12	1:K:413:VAL:HG21	1.54	0.87
1:A:396:ASP:OD1	1:B:467:THR:HG21	1.67	0.87
1:C:354:ASP:N	1:C:383:THR:HG22	1.86	0.87
1:C:424:LYS:HB2	1:C:441:LEU:CD1	2.03	0.87
1:E:343:PHE:CA	1:F:470:ASN:H	1.87	0.87
1:E:349:SER:OG	2:Q:102:LYS:CG	2.21	0.87
1:F:372:ILE:HG12	1:F:413:VAL:HG21	1.54	0.87
1:G:343:PHE:CA	1:H:470:ASN:H	1.87	0.87
1:G:387:LYS:HB3	2:S:102:LYS:CD	2.05	0.87
1:K:424:LYS:HE2	1:K:441:LEU:CD1	2.03	0.87
1:L:349:SER:OG	2:X:102:LYS:CG	2.21	0.87
1:A:349:SER:OG	2:M:102:LYS:CG	2.21	0.87
1:B:347:LYS:HZ1	2:N:104:GLY:HA2	1.05	0.87
1:I:373:VAL:CG2	1:I:412:ILE:HD11	2.05	0.87
1:J:372:ILE:HG12	1:J:413:VAL:HG21	1.54	0.87
1:A:387:LYS:HB3	2:M:102:LYS:CD	2.05	0.87
1:C:382:MET:HE2	1:C:384:LEU:HG	1.54	0.87
1:C:396:ASP:CG	1:D:467:THR:CB	2.48	0.87
1:F:387:LYS:HB3	2:R:102:LYS:CD	2.05	0.87
1:G:347:LYS:HE3	2:S:104:GLY:N	1.90	0.87
1:G:483:ILE:CG1	1:G:491:ILE:HB	2.05	0.87
1:I:347:LYS:HE3	2:U:104:GLY:N	1.90	0.87
1:I:424:LYS:HE2	1:I:441:LEU:CD1	2.03	0.87
1:B:343:PHE:CA	1:C:470:ASN:H	1.87	0.87
1:D:343:PHE:CA	1:E:470:ASN:H	1.87	0.87
1:D:349:SER:OG	2:P:102:LYS:CG	2.21	0.87
1:D:483:ILE:CG1	1:D:491:ILE:HB	2.05	0.87
1:G:299:GLN:HE21	1:H:227:ASN:HD21	0.87	0.87
1:H:347:LYS:HE3	2:T:104:GLY:N	1.90	0.87
1:H:373:VAL:CG2	1:H:412:ILE:HD11	2.05	0.87
1:J:373:VAL:CG2	1:J:412:ILE:HD11	2.05	0.87
1:K:347:LYS:HE3	2:W:104:GLY:N	1.90	0.87
1:A:424:LYS:HB2	1:A:441:LEU:CD1	2.03	0.87
1:B:387:LYS:HB3	2:N:102:LYS:CD	2.04	0.87
1:D:261:ILE:CG1	1:E:229:ASP:OD1	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:299:GLN:HE21	1:G:227:ASN:HD21	0.87	0.87
1:F:483:ILE:CG1	1:F:491:ILE:HB	2.05	0.87
1:K:261:ILE:CG1	1:L:229:ASP:OD1	2.20	0.87
1:A:396:ASP:CG	1:B:467:THR:CB	2.48	0.86
1:C:261:ILE:CG1	1:D:229:ASP:OD1	2.20	0.86
1:C:387:LYS:HB3	2:O:102:LYS:CD	2.05	0.86
1:E:387:LYS:HB3	2:Q:102:LYS:CD	2.04	0.86
1:F:418:ARG:HD2	1:F:481:VAL:CB	2.04	0.86
1:H:299:GLN:HE21	1:I:227:ASN:HD21	0.87	0.86
1:B:373:VAL:CG2	1:B:412:ILE:HD11	2.05	0.86
1:B:418:ARG:HD2	1:B:481:VAL:CB	2.04	0.86
1:B:424:LYS:HB2	1:B:441:LEU:CD1	2.03	0.86
1:C:450:TYR:CZ	1:C:514:GLN:HG3	2.10	0.86
1:D:424:LYS:HB2	1:D:441:LEU:CD1	2.03	0.86
1:E:483:ILE:CG1	1:E:491:ILE:HB	2.05	0.86
1:G:382:MET:CE	1:G:384:LEU:HG	2.05	0.86
1:I:372:ILE:HG12	1:I:413:VAL:HG21	1.54	0.86
1:I:382:MET:CE	1:I:384:LEU:HG	2.05	0.86
1:L:424:LYS:HB2	1:L:441:LEU:CD1	2.03	0.86
1:A:450:TYR:CZ	1:A:514:GLN:HG3	2.10	0.86
1:C:373:VAL:CG2	1:C:412:ILE:HD11	2.05	0.86
1:E:396:ASP:CG	1:F:467:THR:CB	2.48	0.86
1:F:450:TYR:CZ	1:F:514:GLN:HG3	2.10	0.86
1:I:343:PHE:CA	1:J:470:ASN:H	1.87	0.86
1:K:373:VAL:CG2	1:K:412:ILE:HD11	2.05	0.86
1:A:373:VAL:CG2	1:A:412:ILE:HD11	2.05	0.86
1:A:470:ASN:H	1:L:343:PHE:CA	1.87	0.86
1:C:382:MET:CE	1:C:384:LEU:HG	2.05	0.86
1:D:418:ARG:HD2	1:D:481:VAL:CB	2.04	0.86
1:D:450:TYR:CZ	1:D:514:GLN:HG3	2.10	0.86
1:E:299:GLN:HE21	1:F:227:ASN:HD21	0.87	0.86
1:G:372:ILE:HG12	1:G:413:VAL:HG21	1.54	0.86
1:G:373:VAL:CG2	1:G:412:ILE:HD11	2.05	0.86
1:H:396:ASP:CG	1:I:467:THR:CB	2.48	0.86
1:I:483:ILE:CG1	1:I:491:ILE:HB	2.05	0.86
1:L:382:MET:HE2	1:L:384:LEU:HG	1.54	0.86
1:A:467:THR:CB	1:L:396:ASP:CG	2.48	0.86
1:H:372:ILE:HG12	1:H:413:VAL:HG21	1.54	0.86
1:I:396:ASP:CG	1:J:467:THR:CB	2.48	0.86
1:K:450:TYR:CZ	1:K:514:GLN:HG3	2.10	0.86
1:D:396:ASP:CG	1:E:467:THR:CB	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:299:GLN:HE21	1:J:227:ASN:HD21	0.87	0.86
1:J:382:MET:CE	1:J:384:LEU:HG	2.05	0.86
1:J:387:LYS:HB3	2:V:102:LYS:CD	2.05	0.86
1:A:273:LEU:CG	1:L:295:ASN:H	1.76	0.86
1:E:450:TYR:CZ	1:E:514:GLN:HG3	2.10	0.86
1:J:261:ILE:CG1	1:K:229:ASP:OD1	2.21	0.86
1:B:396:ASP:CG	1:C:467:THR:CB	2.48	0.86
1:B:483:ILE:CG1	1:B:491:ILE:HB	2.05	0.86
1:C:347:LYS:HE3	2:O:104:GLY:N	1.90	0.86
1:H:483:ILE:CG1	1:H:491:ILE:HB	2.05	0.86
1:I:450:TYR:CZ	1:I:514:GLN:HG3	2.10	0.86
1:K:372:ILE:HG23	1:K:415:ILE:HD13	1.58	0.86
1:L:372:ILE:HG23	1:L:415:ILE:HD13	1.58	0.86
1:L:382:MET:CE	1:L:384:LEU:HG	2.05	0.86
1:A:404:LEU:HD12	1:A:417:PRO:CA	2.05	0.86
1:D:373:VAL:CG2	1:D:412:ILE:HD11	2.05	0.86
1:E:347:LYS:HE3	2:Q:104:GLY:N	1.90	0.86
1:E:457:ARG:NH1	1:E:482:LEU:HD23	1.91	0.86
1:F:457:ARG:NH1	1:F:482:LEU:HD23	1.91	0.86
1:H:387:LYS:HB3	2:T:102:LYS:CD	2.04	0.86
1:H:450:TYR:CZ	1:H:514:GLN:HG3	2.10	0.86
1:I:261:ILE:CG1	1:J:229:ASP:OD1	2.20	0.86
1:I:387:LYS:HB3	2:U:102:LYS:CD	2.05	0.86
1:J:299:GLN:HE21	1:K:227:ASN:HD21	0.87	0.86
1:J:372:ILE:HG23	1:J:415:ILE:HD13	1.58	0.86
1:L:373:VAL:CG2	1:L:412:ILE:HD11	2.05	0.86
1:F:373:VAL:CG2	1:F:412:ILE:HD11	2.05	0.86
1:F:396:ASP:CG	1:G:467:THR:CB	2.48	0.86
1:G:396:ASP:CG	1:H:467:THR:CB	2.48	0.86
1:K:299:GLN:HE21	1:L:227:ASN:HD21	0.87	0.86
1:K:382:MET:CE	1:K:384:LEU:HG	2.05	0.86
1:K:396:ASP:CG	1:L:467:THR:CB	2.48	0.86
1:C:483:ILE:CG1	1:C:491:ILE:HB	2.05	0.85
1:L:387:LYS:HB3	2:X:102:LYS:CD	2.05	0.85
1:K:387:LYS:HB3	2:W:102:LYS:CD	2.04	0.85
1:A:257:HIS:CD2	1:B:232:LYS:HB2	2.12	0.85
1:A:372:ILE:HG23	1:A:415:ILE:HD13	1.58	0.85
1:A:508:GLU:CD	1:L:447:GLN:CG	2.47	0.85
1:D:457:ARG:NH1	1:D:482:LEU:HD23	1.91	0.85
1:E:382:MET:CE	1:E:384:LEU:HG	2.05	0.85
1:F:382:MET:CE	1:F:384:LEU:HG	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:LYS:HE3	2:V:104:GLY:N	1.90	0.85
1:J:396:ASP:OD1	1:K:467:THR:CB	2.25	0.85
1:J:450:TYR:CZ	1:J:514:GLN:HG3	2.10	0.85
1:K:396:ASP:OD1	1:L:467:THR:CB	2.25	0.85
1:K:483:ILE:CG1	1:K:491:ILE:HB	2.05	0.85
1:A:467:THR:CB	1:L:396:ASP:OD1	2.25	0.85
1:B:450:TYR:CZ	1:B:514:GLN:HG3	2.10	0.85
1:C:257:HIS:CD2	1:D:232:LYS:HB2	2.12	0.85
1:D:299:GLN:HE21	1:E:227:ASN:HD21	0.87	0.85
1:I:396:ASP:OD1	1:J:467:THR:CB	2.25	0.85
1:J:396:ASP:CG	1:K:467:THR:CB	2.48	0.85
1:L:404:LEU:HD12	1:L:417:PRO:CA	2.05	0.85
1:A:483:ILE:CG1	1:A:491:ILE:HB	2.05	0.85
1:G:457:ARG:NH1	1:G:482:LEU:HD23	1.91	0.85
1:H:372:ILE:HG23	1:H:415:ILE:HD13	1.58	0.85
1:H:382:MET:CE	1:H:384:LEU:HG	2.05	0.85
1:A:396:ASP:OD1	1:B:467:THR:CB	2.25	0.85
1:B:382:MET:CE	1:B:384:LEU:HG	2.05	0.85
1:E:373:VAL:CG2	1:E:412:ILE:HD11	2.05	0.85
1:H:261:ILE:CG1	1:I:229:ASP:OD1	2.20	0.85
1:H:396:ASP:OD1	1:I:467:THR:CB	2.25	0.85
1:H:457:ARG:NH1	1:H:482:LEU:HD23	1.91	0.85
1:I:372:ILE:HG23	1:I:415:ILE:HD13	1.58	0.85
1:L:450:TYR:CZ	1:L:514:GLN:HG3	2.10	0.85
2:N:130:TYR:HB2	2:N:146:LEU:HB2	1.59	0.85
1:B:265:LYS:HE2	1:C:245:LEU:CB	1.64	0.85
1:C:457:ARG:NH1	1:C:482:LEU:HD23	1.91	0.85
1:D:382:MET:CE	1:D:384:LEU:HG	2.05	0.85
1:J:257:HIS:CD2	1:K:232:LYS:HB2	2.12	0.85
1:K:257:HIS:CD2	1:L:232:LYS:HB2	2.12	0.85
1:A:295:ASN:N	1:B:273:LEU:CG	2.27	0.85
1:H:265:LYS:HE3	1:I:245:LEU:HD21	1.57	0.85
2:O:130:TYR:HB2	2:O:146:LEU:HB2	1.59	0.85
1:A:232:LYS:HB2	1:L:257:HIS:CD2	2.12	0.85
1:B:396:ASP:OD1	1:C:467:THR:CB	2.25	0.85
1:D:343:PHE:CD1	1:E:469:GLY:CA	2.60	0.85
1:G:396:ASP:OD1	1:H:467:THR:CB	2.25	0.85
1:J:483:ILE:CG1	1:J:491:ILE:HB	2.05	0.85
1:K:265:LYS:HE3	1:L:245:LEU:HD21	1.57	0.85
1:K:404:LEU:HD12	1:K:417:PRO:CA	2.05	0.85
2:W:130:TYR:HB2	2:W:146:LEU:HB2	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:HIS:CD2	1:C:232:LYS:HB2	2.12	0.85
1:D:257:HIS:CD2	1:E:232:LYS:HB2	2.12	0.85
1:H:257:HIS:CD2	1:I:232:LYS:HB2	2.12	0.85
1:I:265:LYS:HE3	1:J:245:LEU:HD21	1.57	0.85
1:J:265:LYS:HE3	1:K:245:LEU:HD21	1.57	0.85
1:L:483:ILE:CG1	1:L:491:ILE:HB	2.05	0.85
2:M:130:TYR:HB2	2:M:146:LEU:HB2	1.59	0.85
2:V:130:TYR:HB2	2:V:146:LEU:HB2	1.59	0.85
1:A:245:LEU:HD21	1:L:265:LYS:HE3	1.57	0.84
1:A:469:GLY:CA	1:L:343:PHE:CD1	2.60	0.84
1:B:343:PHE:CD1	1:C:469:GLY:CA	2.60	0.84
1:C:396:ASP:OD1	1:D:467:THR:CB	2.25	0.84
1:E:294:LEU:CD2	1:F:227:ASN:HB2	2.07	0.84
1:F:294:LEU:CD2	1:G:227:ASN:HB2	2.07	0.84
1:F:396:ASP:OD1	1:G:467:THR:CB	2.25	0.84
1:G:372:ILE:HG23	1:G:415:ILE:HD13	1.58	0.84
1:G:450:TYR:CZ	1:G:514:GLN:HG3	2.10	0.84
1:I:257:HIS:CD2	1:J:232:LYS:HB2	2.12	0.84
1:A:382:MET:CE	1:A:384:LEU:HG	2.05	0.84
1:B:457:ARG:NH1	1:B:482:LEU:HD23	1.91	0.84
1:D:396:ASP:OD1	1:E:467:THR:CB	2.25	0.84
1:E:396:ASP:OD1	1:F:467:THR:CB	2.25	0.84
1:G:294:LEU:CD2	1:H:227:ASN:HB2	2.07	0.84
1:H:294:LEU:CD2	1:I:227:ASN:HB2	2.07	0.84
2:U:130:TYR:HB2	2:U:146:LEU:HB2	1.59	0.84
1:A:265:LYS:HE3	1:B:245:LEU:HD21	1.57	0.84
1:D:389:VAL:HG22	1:E:376:ASP:CB	2.08	0.84
1:I:294:LEU:CD2	1:J:227:ASN:HB2	2.07	0.84
1:J:389:VAL:HG22	1:K:376:ASP:CB	2.08	0.84
1:J:404:LEU:HD12	1:J:417:PRO:CA	2.05	0.84
1:J:457:ARG:NH1	1:J:482:LEU:HD23	1.91	0.84
1:B:372:ILE:HG23	1:B:415:ILE:HD13	1.58	0.84
1:F:343:PHE:CD1	1:G:469:GLY:CA	2.60	0.84
1:I:457:ARG:NH1	1:I:482:LEU:HD23	1.91	0.84
1:J:294:LEU:CD2	1:K:227:ASN:HB2	2.07	0.84
2:P:130:TYR:HB2	2:P:146:LEU:HB2	1.59	0.84
2:Q:130:TYR:HB2	2:Q:146:LEU:HB2	1.59	0.84
1:A:389:VAL:HG22	1:B:376:ASP:CB	2.08	0.84
1:B:265:LYS:HE3	1:C:245:LEU:HD21	1.57	0.84
1:E:457:ARG:HH12	1:E:482:LEU:HD23	1.43	0.84
1:F:257:HIS:CD2	1:G:232:LYS:HB2	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:261:ILE:CG1	1:H:229:ASP:OD1	2.21	0.84
2:X:130:TYR:HB2	2:X:146:LEU:HB2	1.59	0.84
1:C:299:GLN:HE21	1:D:227:ASN:HD21	0.87	0.84
1:E:257:HIS:CD2	1:F:232:LYS:HB2	2.12	0.84
1:G:389:VAL:HG22	1:H:376:ASP:CB	2.08	0.84
1:K:294:LEU:CD2	1:L:227:ASN:HB2	2.07	0.84
1:L:457:ARG:HH12	1:L:482:LEU:HD23	1.43	0.84
1:C:343:PHE:CD2	1:D:472:ASN:OD1	2.22	0.84
1:F:372:ILE:HG23	1:F:415:ILE:HD13	1.58	0.84
1:I:389:VAL:HG22	1:J:376:ASP:CB	2.08	0.84
1:I:404:LEU:HD12	1:I:417:PRO:CA	2.05	0.84
2:R:130:TYR:HB2	2:R:146:LEU:HB2	1.59	0.84
2:T:130:TYR:HB2	2:T:146:LEU:HB2	1.59	0.84
1:D:447:GLN:CG	1:E:508:GLU:CD	2.47	0.84
1:K:457:ARG:NH1	1:K:482:LEU:HD23	1.91	0.84
1:A:343:PHE:CD1	1:B:469:GLY:CA	2.60	0.84
1:A:457:ARG:NH1	1:A:482:LEU:HD23	1.91	0.84
1:C:457:ARG:HH12	1:C:482:LEU:HD23	1.43	0.84
1:E:261:ILE:CG1	1:F:229:ASP:OD1	2.20	0.84
1:F:261:ILE:CG1	1:G:229:ASP:OD1	2.20	0.84
1:F:396:ASP:OD1	1:G:467:THR:HG21	1.67	0.84
1:G:257:HIS:CD2	1:H:232:LYS:HB2	2.12	0.84
1:L:457:ARG:NH1	1:L:482:LEU:HD23	1.91	0.84
2:S:130:TYR:HB2	2:S:146:LEU:HB2	1.59	0.84
1:A:227:ASN:HB2	1:L:294:LEU:CD2	2.07	0.84
1:A:376:ASP:CB	1:L:389:VAL:HG22	2.08	0.84
1:B:389:VAL:HG22	1:C:376:ASP:CB	2.08	0.84
1:B:457:ARG:HH12	1:B:482:LEU:HD23	1.43	0.84
1:C:265:LYS:HE3	1:D:245:LEU:HD21	1.57	0.84
1:C:343:PHE:CD1	1:D:469:GLY:CA	2.60	0.84
1:E:389:VAL:HG22	1:F:376:ASP:CB	2.08	0.84
1:H:404:LEU:HD12	1:H:417:PRO:CA	2.05	0.84
1:G:343:PHE:CD1	1:H:469:GLY:CA	2.60	0.83
1:H:343:PHE:HD2	1:I:472:ASN:OD1	1.61	0.83
1:K:447:GLN:CG	1:L:508:GLU:CD	2.47	0.83
1:A:294:LEU:CD2	1:B:227:ASN:HB2	2.07	0.83
1:C:389:VAL:HG22	1:D:376:ASP:CB	2.08	0.83
1:E:343:PHE:CD1	1:F:469:GLY:CA	2.60	0.83
1:A:343:PHE:CD2	1:B:472:ASN:OD1	2.22	0.83
1:D:265:LYS:HE3	1:E:245:LEU:HD21	1.57	0.83
1:E:372:ILE:HG23	1:E:415:ILE:HD13	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:389:VAL:HG22	1:G:376:ASP:CB	2.08	0.83
1:J:343:PHE:CD1	1:K:469:GLY:CA	2.60	0.83
1:B:294:LEU:CD2	1:C:227:ASN:HB2	2.07	0.83
1:B:404:LEU:HD12	1:B:417:PRO:CA	2.05	0.83
1:C:372:ILE:HG23	1:C:415:ILE:HD13	1.58	0.83
1:G:404:LEU:HD12	1:G:417:PRO:CA	2.05	0.83
1:H:457:ARG:HH12	1:H:482:LEU:HD23	1.43	0.83
1:I:343:PHE:CD1	1:J:469:GLY:CA	2.60	0.83
1:K:389:VAL:HG22	1:L:376:ASP:CB	2.08	0.83
1:K:457:ARG:HH12	1:K:482:LEU:HD23	1.43	0.83
1:A:472:ASN:OD1	1:L:343:PHE:CD2	2.22	0.83
1:G:343:PHE:CB	1:H:469:GLY:C	2.42	0.83
1:H:389:VAL:HG22	1:I:376:ASP:CB	2.08	0.83
1:E:404:LEU:HB3	1:E:416:ALA:O	1.79	0.83
1:G:364:LEU:HD12	1:G:391:TRP:HB2	1.61	0.83
1:J:372:ILE:HA	1:J:413:VAL:CG2	2.09	0.83
1:J:457:ARG:HH12	1:J:482:LEU:HD23	1.43	0.83
1:L:351:ASP:CG	2:X:100:ILE:H	1.86	0.83
1:B:299:GLN:HE21	1:C:227:ASN:HD21	0.87	0.83
1:B:372:ILE:HA	1:B:413:VAL:CG2	2.09	0.83
1:C:294:LEU:CD2	1:D:227:ASN:HB2	2.07	0.83
1:D:372:ILE:HG23	1:D:415:ILE:HD13	1.58	0.83
1:E:265:LYS:HE3	1:F:245:LEU:HD21	1.57	0.83
1:G:343:PHE:HD2	1:H:472:ASN:OD1	1.62	0.83
1:H:364:LEU:HD12	1:H:391:TRP:HB2	1.61	0.83
1:J:351:ASP:CG	2:V:100:ILE:H	1.86	0.83
1:K:351:ASP:CG	2:W:100:ILE:H	1.86	0.83
1:A:273:LEU:CG	1:L:295:ASN:N	2.27	0.83
1:B:404:LEU:HB3	1:B:416:ALA:O	1.79	0.83
1:C:372:ILE:HA	1:C:413:VAL:CG2	2.09	0.83
1:G:295:ASN:N	1:H:273:LEU:CG	2.27	0.83
1:I:351:ASP:CG	2:U:100:ILE:H	1.86	0.83
1:I:372:ILE:HA	1:I:413:VAL:CG2	2.09	0.83
1:K:343:PHE:CD1	1:L:469:GLY:CA	2.60	0.83
1:C:308:TRP:CE3	1:C:324:VAL:HG13	2.14	0.83
1:C:404:LEU:HD12	1:C:417:PRO:CA	2.05	0.83
1:F:308:TRP:CE3	1:F:324:VAL:HG13	2.14	0.83
1:K:372:ILE:HA	1:K:413:VAL:CG2	2.09	0.83
1:L:308:TRP:CE3	1:L:324:VAL:HG13	2.14	0.83
1:A:351:ASP:CG	2:M:100:ILE:H	1.86	0.83
1:D:404:LEU:HB3	1:D:416:ALA:O	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:457:ARG:HH12	1:F:482:LEU:HD23	1.43	0.83
1:H:295:ASN:N	1:I:273:LEU:CG	2.26	0.83
1:J:364:LEU:HD12	1:J:391:TRP:HB2	1.61	0.83
1:A:467:THR:HB	1:L:396:ASP:CG	2.04	0.82
1:D:372:ILE:HA	1:D:413:VAL:CG2	2.09	0.82
1:D:396:ASP:CG	1:E:467:THR:HB	2.04	0.82
1:F:404:LEU:HD12	1:F:417:PRO:CA	2.05	0.82
1:H:343:PHE:CD1	1:I:469:GLY:CA	2.60	0.82
1:H:372:ILE:HA	1:H:413:VAL:CG2	2.09	0.82
1:J:404:LEU:HB3	1:J:416:ALA:O	1.79	0.82
1:A:308:TRP:CE3	1:A:324:VAL:HG13	2.14	0.82
1:A:372:ILE:HA	1:A:413:VAL:CG2	2.09	0.82
1:A:404:LEU:HB3	1:A:416:ALA:O	1.79	0.82
1:C:404:LEU:HB3	1:C:416:ALA:O	1.79	0.82
1:D:294:LEU:CD2	1:E:227:ASN:HB2	2.07	0.82
1:F:364:LEU:HD12	1:F:391:TRP:HB2	1.61	0.82
1:F:404:LEU:HB3	1:F:416:ALA:O	1.79	0.82
1:A:360:ILE:O	1:A:364:LEU:HD23	1.79	0.82
1:A:396:ASP:CG	1:B:467:THR:HB	2.04	0.82
1:B:396:ASP:CG	1:C:467:THR:HB	2.05	0.82
1:H:351:ASP:CG	2:T:100:ILE:H	1.86	0.82
1:I:364:LEU:HD12	1:I:391:TRP:HB2	1.61	0.82
1:K:396:ASP:CG	1:L:467:THR:HB	2.05	0.82
1:A:227:ASN:HD21	1:L:299:GLN:HE21	0.87	0.82
1:C:360:ILE:O	1:C:364:LEU:HD23	1.79	0.82
1:H:483:ILE:HD11	1:H:491:ILE:HD12	1.61	0.82
1:I:308:TRP:CE3	1:I:324:VAL:HG13	2.14	0.82
1:I:404:LEU:HB3	1:I:416:ALA:O	1.79	0.82
1:K:364:LEU:HD12	1:K:391:TRP:HB2	1.61	0.82
1:A:299:GLN:HE21	1:B:227:ASN:HD21	0.87	0.82
1:C:424:LYS:HG2	1:C:428:PHE:CZ	2.15	0.82
1:D:308:TRP:CE3	1:D:324:VAL:HG13	2.14	0.82
1:D:351:ASP:CG	2:P:100:ILE:H	1.86	0.82
1:G:483:ILE:HD11	1:G:491:ILE:HD12	1.61	0.82
1:J:308:TRP:CE3	1:J:324:VAL:HG13	2.14	0.82
1:L:353:GLN:HG3	2:X:98:VAL:O	1.80	0.82
1:A:353:GLN:HG3	2:M:98:VAL:O	1.80	0.82
1:B:308:TRP:CE3	1:B:324:VAL:HG13	2.14	0.82
1:B:351:ASP:CG	2:N:100:ILE:H	1.86	0.82
1:E:308:TRP:CE3	1:E:324:VAL:HG13	2.14	0.82
1:G:351:ASP:CG	2:S:100:ILE:H	1.86	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:396:ASP:CG	1:J:467:THR:HB	2.04	0.82
1:J:360:ILE:O	1:J:364:LEU:HD23	1.79	0.82
1:K:404:LEU:HB3	1:K:416:ALA:O	1.79	0.82
1:B:343:PHE:CD2	1:C:472:ASN:OD1	2.22	0.82
1:B:347:LYS:HE3	2:N:104:GLY:H	1.45	0.82
1:D:343:PHE:CD2	1:E:472:ASN:OD1	2.22	0.82
1:D:457:ARG:HH12	1:D:482:LEU:HD23	1.43	0.82
1:F:295:ASN:N	1:G:273:LEU:CG	2.27	0.82
1:F:347:LYS:HE3	2:R:104:GLY:H	1.45	0.82
1:G:372:ILE:HA	1:G:413:VAL:CG2	2.09	0.82
1:H:308:TRP:CE3	1:H:324:VAL:HG13	2.14	0.82
1:I:352:PHE:CD1	1:I:360:ILE:HG22	2.15	0.82
1:I:353:GLN:HG3	2:U:98:VAL:O	1.80	0.82
1:I:360:ILE:O	1:I:364:LEU:HD23	1.79	0.82
1:J:352:PHE:CD1	1:J:360:ILE:HG22	2.15	0.82
1:J:396:ASP:CG	1:K:467:THR:HB	2.04	0.82
1:A:394:ALA:O	1:A:398:VAL:HG23	1.80	0.82
1:B:353:GLN:HG3	2:N:98:VAL:O	1.80	0.82
1:D:347:LYS:HE3	2:P:104:GLY:H	1.45	0.82
1:E:372:ILE:HA	1:E:413:VAL:CG2	2.09	0.82
1:F:265:LYS:HE3	1:G:245:LEU:HD21	1.57	0.82
1:F:360:ILE:O	1:F:364:LEU:HD23	1.79	0.82
1:F:396:ASP:CG	1:G:467:THR:HB	2.04	0.82
1:F:483:ILE:HD11	1:F:491:ILE:HD12	1.61	0.82
1:G:308:TRP:CE3	1:G:324:VAL:HG13	2.14	0.82
1:H:404:LEU:HB3	1:H:416:ALA:O	1.79	0.82
1:K:424:LYS:HG2	1:K:428:PHE:CZ	2.15	0.82
1:L:424:LYS:HG2	1:L:428:PHE:CZ	2.15	0.82
1:C:351:ASP:CG	2:O:100:ILE:H	1.86	0.82
1:F:351:ASP:CG	2:R:100:ILE:H	1.86	0.82
1:I:343:PHE:HD2	1:J:472:ASN:OD1	1.62	0.82
1:I:483:ILE:HD11	1:I:491:ILE:HD12	1.61	0.82
1:A:424:LYS:HG2	1:A:428:PHE:CZ	2.15	0.82
1:F:352:PHE:CD1	1:F:360:ILE:HG22	2.15	0.82
1:G:353:GLN:HG3	2:S:98:VAL:O	1.80	0.82
1:G:396:ASP:CG	1:H:467:THR:HB	2.04	0.82
1:H:347:LYS:HE3	2:T:104:GLY:H	1.45	0.82
1:H:424:LYS:HG2	1:H:428:PHE:CZ	2.15	0.82
1:J:353:GLN:HG3	2:V:98:VAL:O	1.80	0.82
1:J:424:LYS:HG2	1:J:428:PHE:CZ	2.15	0.82
1:L:372:ILE:HA	1:L:413:VAL:CG2	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:LYS:HE2	1:B:245:LEU:CB	1.64	0.81
1:C:396:ASP:CG	1:D:467:THR:HB	2.04	0.81
1:D:404:LEU:HD12	1:D:417:PRO:CA	2.05	0.81
1:E:352:PHE:CD1	1:E:360:ILE:HG22	2.15	0.81
1:E:424:LYS:HG2	1:E:428:PHE:CZ	2.15	0.81
1:H:353:GLN:HG3	2:T:98:VAL:O	1.80	0.81
1:H:360:ILE:O	1:H:364:LEU:HD23	1.79	0.81
1:L:394:ALA:O	1:L:398:VAL:HG23	1.80	0.81
1:A:457:ARG:HH12	1:A:482:LEU:HD23	1.43	0.81
1:A:483:ILE:HD11	1:A:491:ILE:HD12	1.61	0.81
1:B:360:ILE:O	1:B:364:LEU:HD23	1.79	0.81
1:B:394:ALA:O	1:B:398:VAL:HG23	1.80	0.81
1:D:360:ILE:O	1:D:364:LEU:HD23	1.79	0.81
1:E:351:ASP:CG	2:Q:100:ILE:H	1.86	0.81
1:E:364:LEU:HD12	1:E:391:TRP:HB2	1.61	0.81
1:G:424:LYS:HG2	1:G:428:PHE:CZ	2.15	0.81
1:H:394:ALA:O	1:H:398:VAL:HG23	1.80	0.81
1:K:352:PHE:CD1	1:K:360:ILE:HG22	2.15	0.81
1:L:364:LEU:HD12	1:L:391:TRP:HB2	1.61	0.81
1:L:483:ILE:HD11	1:L:491:ILE:HD12	1.61	0.81
1:B:352:PHE:CD1	1:B:360:ILE:HG22	2.15	0.81
1:C:352:PHE:CD1	1:C:360:ILE:HG22	2.15	0.81
1:C:447:GLN:CG	1:D:508:GLU:CD	2.47	0.81
1:D:352:PHE:CD1	1:D:360:ILE:HG22	2.15	0.81
1:E:404:LEU:HD12	1:E:417:PRO:CA	2.05	0.81
1:F:372:ILE:HA	1:F:413:VAL:CG2	2.09	0.81
1:F:406:MET:SD	1:G:468:THR:CG2	2.68	0.81
1:F:424:LYS:HG2	1:F:428:PHE:CZ	2.15	0.81
1:G:265:LYS:HE3	1:H:245:LEU:HD21	1.57	0.81
1:G:360:ILE:O	1:G:364:LEU:HD23	1.79	0.81
1:G:404:LEU:HB3	1:G:416:ALA:O	1.79	0.81
1:G:406:MET:SD	1:H:468:THR:CG2	2.68	0.81
1:J:347:LYS:HE3	2:V:104:GLY:H	1.45	0.81
1:J:483:ILE:HD11	1:J:491:ILE:HD12	1.61	0.81
1:K:308:TRP:CE3	1:K:324:VAL:HG13	2.14	0.81
1:L:347:LYS:HE3	2:X:104:GLY:H	1.45	0.81
1:D:343:PHE:HD2	1:E:472:ASN:OD1	1.62	0.81
1:G:347:LYS:HE3	2:S:104:GLY:H	1.45	0.81
1:H:352:PHE:CD1	1:H:360:ILE:HG22	2.15	0.81
1:J:394:ALA:O	1:J:398:VAL:HG23	1.80	0.81
1:C:353:GLN:HG3	2:O:98:VAL:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:PHE:N	1:E:470:ASN:HB2	1.96	0.81
1:E:353:GLN:HG3	2:Q:98:VAL:O	1.80	0.81
1:F:394:ALA:O	1:F:398:VAL:HG23	1.80	0.81
1:G:343:PHE:CG	1:H:469:GLY:CA	2.64	0.81
1:H:343:PHE:CG	1:I:469:GLY:CA	2.64	0.81
1:K:294:LEU:HA	1:L:273:LEU:HD21	1.61	0.81
1:A:273:LEU:HD21	1:L:294:LEU:HA	1.61	0.81
1:A:352:PHE:CD1	1:A:360:ILE:HG22	2.15	0.81
1:G:352:PHE:CD1	1:G:360:ILE:HG22	2.15	0.81
1:G:394:ALA:O	1:G:398:VAL:HG23	1.80	0.81
1:I:347:LYS:HE3	2:U:104:GLY:H	1.45	0.81
1:I:424:LYS:HG2	1:I:428:PHE:CZ	2.15	0.81
1:K:295:ASN:N	1:L:273:LEU:CG	2.26	0.81
1:K:343:PHE:N	1:L:470:ASN:HB2	1.96	0.81
1:K:353:GLN:HG3	2:W:98:VAL:O	1.80	0.81
1:L:360:ILE:O	1:L:364:LEU:HD23	1.79	0.81
1:A:364:LEU:HD12	1:A:391:TRP:HB2	1.61	0.81
1:A:469:GLY:CA	1:L:343:PHE:CG	2.64	0.81
1:B:343:PHE:N	1:C:470:ASN:HB2	1.96	0.81
1:D:424:LYS:HG2	1:D:428:PHE:CZ	2.15	0.81
1:E:483:ILE:HD11	1:E:491:ILE:HD12	1.61	0.81
1:I:457:ARG:HH12	1:I:482:LEU:HD23	1.43	0.81
1:K:389:VAL:HG22	1:L:376:ASP:OD2	1.81	0.81
1:K:394:ALA:O	1:K:398:VAL:HG23	1.80	0.81
1:L:404:LEU:HB3	1:L:416:ALA:O	1.79	0.81
1:A:450:TYR:CD1	1:A:514:GLN:HA	2.16	0.81
1:B:424:LYS:HG2	1:B:428:PHE:CZ	2.15	0.81
1:C:347:LYS:HE3	2:O:104:GLY:H	1.45	0.81
1:E:360:ILE:O	1:E:364:LEU:HD23	1.79	0.81
1:E:394:ALA:O	1:E:398:VAL:HG23	1.80	0.81
1:E:396:ASP:CG	1:F:467:THR:HB	2.05	0.81
1:F:343:PHE:N	1:G:470:ASN:HB2	1.96	0.81
1:F:343:PHE:HD2	1:G:472:ASN:OD1	1.62	0.81
1:G:294:LEU:HA	1:H:273:LEU:HD21	1.61	0.81
1:G:343:PHE:CD2	1:H:472:ASN:OD1	2.22	0.81
1:G:389:VAL:HG22	1:H:376:ASP:OD2	1.81	0.81
1:G:457:ARG:HH12	1:G:482:LEU:HD23	1.43	0.81
1:I:295:ASN:N	1:J:273:LEU:CG	2.27	0.81
1:I:343:PHE:N	1:J:470:ASN:HB2	1.96	0.81
1:I:394:ALA:O	1:I:398:VAL:HG23	1.80	0.81
1:J:343:PHE:CG	1:K:469:GLY:CA	2.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:487:THR:HG21	1:C:459:ILE:CG2	2.11	0.81
1:D:294:LEU:HA	1:E:273:LEU:HD21	1.61	0.81
1:E:487:THR:HG21	1:F:459:ILE:CG2	2.11	0.81
1:G:450:TYR:CD1	1:G:514:GLN:HA	2.16	0.81
1:J:450:TYR:CD1	1:J:514:GLN:HA	2.16	0.81
1:K:360:ILE:O	1:K:364:LEU:HD23	1.79	0.81
1:L:450:TYR:CD1	1:L:514:GLN:HA	2.16	0.81
1:C:483:ILE:HD11	1:C:491:ILE:HD12	1.61	0.81
1:D:353:GLN:HG3	2:P:98:VAL:O	1.80	0.81
1:E:343:PHE:HD2	1:F:472:ASN:OD1	1.61	0.81
1:E:450:TYR:CD1	1:E:514:GLN:HA	2.16	0.81
1:H:294:LEU:HA	1:I:273:LEU:HD21	1.61	0.81
1:I:487:THR:HG21	1:J:459:ILE:CG2	2.12	0.81
1:J:389:VAL:HG22	1:K:376:ASP:OD2	1.81	0.81
1:K:343:PHE:HD2	1:L:472:ASN:OD1	1.61	0.81
1:K:447:GLN:HG3	1:L:508:GLU:CD	2.06	0.81
1:L:352:PHE:CD1	1:L:360:ILE:HG22	2.15	0.81
1:A:343:PHE:N	1:B:470:ASN:HB2	1.96	0.80
1:C:294:LEU:HA	1:D:273:LEU:HD21	1.61	0.80
1:D:364:LEU:HD12	1:D:391:TRP:HB2	1.61	0.80
1:D:389:VAL:HG22	1:E:376:ASP:OD2	1.81	0.80
1:D:483:ILE:HD11	1:D:491:ILE:HD12	1.61	0.80
1:E:295:ASN:N	1:F:273:LEU:CG	2.26	0.80
1:E:343:PHE:CG	1:F:469:GLY:CA	2.64	0.80
1:E:447:GLN:HG3	1:F:508:GLU:CD	2.06	0.80
1:F:294:LEU:HA	1:G:273:LEU:HD21	1.61	0.80
1:H:396:ASP:CG	1:I:467:THR:HB	2.05	0.80
1:I:389:VAL:CG2	1:J:376:ASP:OD2	2.30	0.80
1:J:447:GLN:CG	1:K:508:GLU:CD	2.47	0.80
1:A:294:LEU:HA	1:B:273:LEU:HD21	1.61	0.80
1:A:389:VAL:HG22	1:B:376:ASP:OD2	1.81	0.80
1:B:364:LEU:HD12	1:B:391:TRP:HB2	1.61	0.80
1:B:447:GLN:HG3	1:C:508:GLU:CD	2.06	0.80
1:C:394:ALA:O	1:C:398:VAL:HG23	1.80	0.80
1:D:406:MET:SD	1:E:468:THR:CG2	2.68	0.80
1:D:487:THR:HG21	1:E:459:ILE:CG2	2.11	0.80
1:G:389:VAL:CG2	1:H:376:ASP:OD2	2.30	0.80
1:H:389:VAL:HG22	1:I:376:ASP:OD2	1.81	0.80
1:H:487:THR:HG21	1:I:459:ILE:CG2	2.11	0.80
1:J:487:THR:HG21	1:K:459:ILE:CG2	2.11	0.80
1:K:343:PHE:CG	1:L:469:GLY:CA	2.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:VAL:HG22	1:C:376:ASP:OD2	1.81	0.80
1:E:294:LEU:HA	1:F:273:LEU:HD21	1.61	0.80
1:E:389:VAL:HG22	1:F:376:ASP:OD2	1.81	0.80
1:H:450:TYR:CD1	1:H:514:GLN:HA	2.16	0.80
1:J:294:LEU:HA	1:K:273:LEU:HD21	1.61	0.80
1:K:483:ILE:HD11	1:K:491:ILE:HD12	1.61	0.80
1:A:343:PHE:CG	1:B:469:GLY:CA	2.64	0.80
1:C:450:TYR:CD1	1:C:514:GLN:HA	2.16	0.80
1:H:447:GLN:HG3	1:I:508:GLU:CD	2.06	0.80
1:B:450:TYR:CD1	1:B:514:GLN:HA	2.16	0.80
1:E:406:MET:SD	1:F:468:THR:CG2	2.68	0.80
1:K:450:TYR:CD1	1:K:514:GLN:HA	2.16	0.80
1:A:470:ASN:HB2	1:L:343:PHE:N	1.96	0.80
1:C:364:LEU:HD12	1:C:391:TRP:HB2	1.61	0.80
1:F:343:PHE:CG	1:G:469:GLY:CA	2.64	0.80
1:F:487:THR:HG21	1:G:459:ILE:CG2	2.12	0.80
1:G:343:PHE:N	1:H:470:ASN:HB2	1.96	0.80
1:H:343:PHE:N	1:I:470:ASN:HB2	1.96	0.80
1:I:294:LEU:HA	1:J:273:LEU:HD21	1.61	0.80
1:I:450:TYR:CD1	1:I:514:GLN:HA	2.16	0.80
1:K:389:VAL:CG2	1:L:376:ASP:OD2	2.29	0.80
1:A:459:ILE:CG2	1:L:487:THR:HG21	2.12	0.80
1:B:294:LEU:HA	1:C:273:LEU:HD21	1.61	0.80
1:B:343:PHE:CG	1:C:469:GLY:CA	2.64	0.80
1:B:483:ILE:HD11	1:B:491:ILE:HD12	1.61	0.80
1:I:406:MET:SD	1:J:468:THR:CG2	2.68	0.80
1:A:472:ASN:OD1	1:L:343:PHE:HD2	1.62	0.80
1:C:343:PHE:HD2	1:D:472:ASN:OD1	1.62	0.80
1:C:487:THR:HG21	1:D:459:ILE:CG2	2.12	0.80
1:F:353:GLN:HG3	2:R:98:VAL:O	1.80	0.80
1:K:343:PHE:CB	1:L:469:GLY:C	2.42	0.80
1:C:343:PHE:N	1:D:470:ASN:HB2	1.96	0.80
1:D:343:PHE:CG	1:E:469:GLY:CA	2.64	0.80
1:E:343:PHE:N	1:F:470:ASN:H	1.79	0.80
1:E:347:LYS:HE3	2:Q:104:GLY:H	1.45	0.80
1:H:406:MET:SD	1:I:468:THR:CG2	2.68	0.80
1:J:343:PHE:N	1:K:470:ASN:HB2	1.96	0.80
1:K:487:THR:HG21	1:L:459:ILE:CG2	2.11	0.80
1:A:347:LYS:HE3	2:M:104:GLY:H	1.45	0.80
1:C:343:PHE:CG	1:D:469:GLY:CA	2.64	0.80
1:D:343:PHE:N	1:E:470:ASN:H	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:ILE:HA	1:E:413:VAL:HG23	1.64	0.80
1:F:389:VAL:HG22	1:G:376:ASP:OD2	1.81	0.80
1:F:389:VAL:CG2	1:G:376:ASP:OD2	2.30	0.80
1:F:343:PHE:N	1:G:470:ASN:H	1.79	0.79
1:A:343:PHE:CB	1:B:469:GLY:C	2.42	0.79
1:A:469:GLY:C	1:L:343:PHE:CB	2.42	0.79
1:B:389:VAL:CG2	1:C:376:ASP:OD2	2.29	0.79
1:C:343:PHE:N	1:D:470:ASN:H	1.79	0.79
1:C:406:MET:SD	1:D:468:THR:CG2	2.68	0.79
1:E:343:PHE:N	1:F:470:ASN:HB2	1.96	0.79
1:F:450:TYR:CD1	1:F:514:GLN:HA	2.16	0.79
1:K:347:LYS:HE3	2:W:104:GLY:H	1.45	0.79
1:D:394:ALA:O	1:D:398:VAL:HG23	1.80	0.79
1:D:450:TYR:CD1	1:D:514:GLN:HA	2.16	0.79
1:F:372:ILE:HA	1:F:413:VAL:HG23	1.65	0.79
1:H:389:VAL:CG2	1:I:376:ASP:OD2	2.29	0.79
1:H:447:GLN:CG	1:I:508:GLU:CD	2.47	0.79
1:I:343:PHE:CG	1:J:469:GLY:CA	2.64	0.79
1:J:389:VAL:CG2	1:K:376:ASP:OD2	2.30	0.79
1:A:447:GLN:HG3	1:B:508:GLU:CD	2.07	0.79
1:D:372:ILE:HA	1:D:413:VAL:HG23	1.65	0.79
1:E:389:VAL:CG2	1:F:376:ASP:OD2	2.29	0.79
1:G:487:THR:HG21	1:H:459:ILE:CG2	2.11	0.79
1:H:372:ILE:HA	1:H:413:VAL:HG23	1.64	0.79
1:I:447:GLN:CG	1:J:508:GLU:CD	2.47	0.79
1:J:447:GLN:HG3	1:K:508:GLU:CD	2.07	0.79
1:A:487:THR:HG21	1:B:459:ILE:CG2	2.11	0.79
1:B:343:PHE:HD2	1:C:472:ASN:OD1	1.61	0.79
1:E:343:PHE:CD2	1:F:472:ASN:OD1	2.22	0.79
1:G:343:PHE:N	1:H:470:ASN:H	1.80	0.79
1:H:456:PHE:HE1	1:H:509:LEU:HB2	1.48	0.79
1:K:343:PHE:N	1:L:470:ASN:H	1.79	0.79
1:A:376:ASP:OD2	1:L:389:VAL:CG2	2.30	0.79
1:B:343:PHE:N	1:C:470:ASN:H	1.79	0.79
1:G:372:ILE:HA	1:G:413:VAL:HG23	1.65	0.79
1:K:396:ASP:OD1	1:L:467:THR:HG21	1.67	0.79
1:L:456:PHE:HE1	1:L:509:LEU:HB2	1.48	0.79
1:A:376:ASP:OD2	1:L:389:VAL:HG22	1.81	0.79
1:J:343:PHE:HD2	1:K:472:ASN:OD1	1.62	0.79
1:K:456:PHE:HE1	1:K:509:LEU:HB2	1.48	0.79
1:A:470:ASN:H	1:L:343:PHE:N	1.79	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:465:ALA:CB	1:D:475:ILE:HD11	2.13	0.79
1:H:343:PHE:N	1:I:470:ASN:H	1.79	0.79
1:I:389:VAL:HG22	1:J:376:ASP:OD2	1.81	0.79
1:B:483:ILE:O	1:B:490:LEU:HD12	1.83	0.79
1:C:389:VAL:HG22	1:D:376:ASP:OD2	1.81	0.79
1:D:447:GLN:HG3	1:E:508:GLU:CD	2.07	0.79
1:I:372:ILE:HA	1:I:413:VAL:HG23	1.65	0.79
1:J:343:PHE:N	1:K:470:ASN:H	1.80	0.79
1:A:408:GLN:HG2	1:A:413:VAL:HG12	1.65	0.79
1:B:408:GLN:HG2	1:B:413:VAL:HG12	1.65	0.79
1:D:389:VAL:CG2	1:E:376:ASP:OD2	2.30	0.79
1:D:456:PHE:HE1	1:D:509:LEU:HB2	1.48	0.79
1:G:447:GLN:HG3	1:H:508:GLU:CD	2.07	0.79
1:J:406:MET:SD	1:K:468:THR:CG2	2.68	0.79
1:A:389:VAL:CG2	1:B:376:ASP:OD2	2.30	0.78
1:B:372:ILE:HA	1:B:413:VAL:HG23	1.64	0.78
1:E:456:PHE:HE1	1:E:509:LEU:HB2	1.48	0.78
1:J:295:ASN:N	1:K:273:LEU:CG	2.27	0.78
1:E:483:ILE:O	1:E:490:LEU:HD12	1.83	0.78
1:J:372:ILE:HA	1:J:413:VAL:HG23	1.65	0.78
1:L:408:GLN:HG2	1:L:413:VAL:HG12	1.65	0.78
1:A:343:PHE:N	1:B:470:ASN:H	1.80	0.78
1:C:372:ILE:HA	1:C:413:VAL:HG23	1.65	0.78
1:D:483:ILE:O	1:D:490:LEU:HD12	1.83	0.78
1:G:265:LYS:HE2	1:H:245:LEU:HB2	1.65	0.78
1:G:447:GLN:CG	1:H:508:GLU:CD	2.47	0.78
1:I:343:PHE:N	1:J:470:ASN:H	1.79	0.78
1:I:456:PHE:HE1	1:I:509:LEU:HB2	1.48	0.78
1:C:408:GLN:HG2	1:C:413:VAL:HG12	1.65	0.78
1:C:456:PHE:HE1	1:C:509:LEU:HB2	1.48	0.78
1:A:372:ILE:HA	1:A:413:VAL:HG23	1.65	0.78
1:D:295:ASN:N	1:E:273:LEU:CG	2.27	0.78
1:J:408:GLN:HG2	1:J:413:VAL:HG12	1.65	0.78
1:G:456:PHE:HE1	1:G:509:LEU:HB2	1.48	0.78
1:H:483:ILE:O	1:H:490:LEU:HD12	1.83	0.78
1:K:372:ILE:HA	1:K:413:VAL:HG23	1.64	0.78
1:K:483:ILE:O	1:K:490:LEU:HD12	1.83	0.78
1:K:408:GLN:HG2	1:K:413:VAL:HG12	1.65	0.78
1:B:465:ALA:CB	1:B:475:ILE:HD11	2.13	0.78
1:E:265:LYS:HE2	1:F:245:LEU:HB2	1.65	0.78
1:J:483:ILE:O	1:J:490:LEU:HD12	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:456:PHE:HE1	1:J:509:LEU:HB2	1.48	0.78
1:L:372:ILE:HA	1:L:413:VAL:HG23	1.65	0.78
1:A:343:PHE:HD2	1:B:472:ASN:OD1	1.62	0.78
1:G:483:ILE:O	1:G:490:LEU:HD12	1.83	0.78
1:I:408:GLN:HG2	1:I:413:VAL:CG1	2.14	0.78
1:I:408:GLN:HG2	1:I:413:VAL:HG12	1.65	0.78
1:L:408:GLN:HG2	1:L:413:VAL:CG1	2.14	0.78
1:A:456:PHE:HE1	1:A:509:LEU:HB2	1.48	0.77
1:C:408:GLN:HG2	1:C:413:VAL:CG1	2.14	0.77
1:E:408:GLN:HG2	1:E:413:VAL:CG1	2.14	0.77
1:C:389:VAL:CG2	1:D:376:ASP:OD2	2.30	0.77
1:D:408:GLN:HG2	1:D:413:VAL:HG12	1.65	0.77
1:F:408:GLN:HG2	1:F:413:VAL:CG1	2.14	0.77
1:K:372:ILE:CG2	1:K:415:ILE:HD13	2.15	0.77
1:A:408:GLN:HG2	1:A:413:VAL:CG1	2.14	0.77
1:F:456:PHE:HE1	1:F:509:LEU:HB2	1.48	0.77
1:I:265:LYS:HE2	1:J:245:LEU:HB2	1.65	0.77
1:I:343:PHE:CD2	1:J:472:ASN:OD1	2.22	0.77
1:A:483:ILE:O	1:A:490:LEU:HD12	1.83	0.77
1:E:450:TYR:CE2	1:E:514:GLN:HG3	2.19	0.77
1:F:450:TYR:CE2	1:F:514:GLN:HG3	2.20	0.77
1:G:307:ASN:ND2	2:S:162:LEU:HD12	2.00	0.77
1:L:483:ILE:O	1:L:490:LEU:HD12	1.83	0.77
1:A:406:MET:SD	1:B:468:THR:CG2	2.68	0.77
1:B:406:MET:SD	1:C:468:THR:CG2	2.68	0.77
1:B:456:PHE:HE1	1:B:509:LEU:HB2	1.48	0.77
1:C:450:TYR:CE2	1:C:514:GLN:HG3	2.20	0.77
1:C:483:ILE:O	1:C:490:LEU:HD12	1.83	0.77
1:D:307:ASN:ND2	2:P:162:LEU:HD12	2.00	0.77
1:D:408:GLN:HG2	1:D:413:VAL:CG1	2.14	0.77
1:G:450:TYR:CE2	1:G:514:GLN:HG3	2.20	0.77
1:H:343:PHE:CD2	1:I:472:ASN:OD1	2.22	0.77
1:H:408:GLN:HG2	1:H:413:VAL:HG12	1.65	0.77
1:F:307:ASN:ND2	2:R:162:LEU:HD12	2.00	0.77
1:G:465:ALA:CB	1:G:475:ILE:HD11	2.13	0.77
1:H:307:ASN:ND2	2:T:162:LEU:HD12	2.00	0.77
1:H:408:GLN:HG2	1:H:413:VAL:CG1	2.14	0.77
1:H:448:LEU:HD11	1:H:506:ILE:HG23	1.67	0.77
1:I:448:LEU:HD11	1:I:506:ILE:HG23	1.67	0.77
1:J:372:ILE:CG2	1:J:415:ILE:HD13	2.15	0.77
1:A:468:THR:CG2	1:L:406:MET:SD	2.68	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:GLU:CD	1:L:447:GLN:HG3	2.07	0.77
1:E:307:ASN:ND2	2:Q:162:LEU:HD12	2.00	0.77
1:H:372:ILE:CG2	1:H:415:ILE:HD13	2.15	0.77
1:H:450:TYR:CE2	1:H:514:GLN:HG3	2.19	0.77
1:J:408:GLN:HG2	1:J:413:VAL:CG1	2.14	0.77
1:K:408:GLN:HG2	1:K:413:VAL:CG1	2.14	0.77
1:L:307:ASN:ND2	2:X:162:LEU:HD12	2.00	0.77
1:A:450:TYR:CE2	1:A:514:GLN:HG3	2.20	0.77
1:C:372:ILE:CG2	1:C:415:ILE:HD13	2.15	0.77
1:F:372:ILE:CG2	1:F:415:ILE:HD13	2.15	0.77
1:I:465:ALA:CB	1:I:475:ILE:HD11	2.13	0.77
1:B:450:TYR:CE2	1:B:514:GLN:HG3	2.19	0.77
1:G:408:GLN:HG2	1:G:413:VAL:HG12	1.65	0.77
1:I:447:GLN:HG3	1:J:508:GLU:CD	2.07	0.77
1:I:483:ILE:O	1:I:490:LEU:HD12	1.83	0.77
1:K:307:ASN:ND2	2:W:162:LEU:HD12	2.00	0.77
1:A:307:ASN:ND2	2:M:162:LEU:HD12	2.00	0.77
1:B:372:ILE:CG2	1:B:415:ILE:HD13	2.15	0.77
1:D:450:TYR:CE2	1:D:514:GLN:HG3	2.20	0.77
1:F:483:ILE:O	1:F:490:LEU:HD12	1.83	0.77
1:K:448:LEU:HD11	1:K:506:ILE:HG23	1.67	0.77
1:L:372:ILE:CG2	1:L:415:ILE:HD13	2.15	0.77
1:L:450:TYR:CE2	1:L:514:GLN:HG3	2.20	0.77
1:A:467:THR:HG21	1:L:396:ASP:OD1	1.67	0.76
1:B:261:ILE:HG21	1:C:229:ASP:CG	2.10	0.76
1:B:408:GLN:HG2	1:B:413:VAL:CG1	2.14	0.76
1:E:408:GLN:HG2	1:E:413:VAL:HG12	1.65	0.76
1:G:408:GLN:HG2	1:G:413:VAL:CG1	2.14	0.76
1:J:265:LYS:HE2	1:K:245:LEU:HB2	1.65	0.76
1:J:448:LEU:HD11	1:J:506:ILE:HG23	1.67	0.76
1:K:406:MET:SD	1:L:468:THR:CG2	2.68	0.76
1:K:450:TYR:CE2	1:K:514:GLN:HG3	2.19	0.76
1:G:448:LEU:HD11	1:G:506:ILE:HG23	1.67	0.76
1:H:347:LYS:HZ2	2:T:104:GLY:CA	1.94	0.76
1:I:450:TYR:CE2	1:I:514:GLN:HG3	2.20	0.76
1:L:448:LEU:HD11	1:L:506:ILE:HG23	1.67	0.76
1:A:372:ILE:CG2	1:A:415:ILE:HD13	2.15	0.76
1:G:372:ILE:CG2	1:G:415:ILE:HD13	2.15	0.76
1:J:450:TYR:CE2	1:J:514:GLN:HG3	2.20	0.76
2:R:161:LEU:HD22	2:R:162:LEU:N	2.01	0.76
1:C:307:ASN:ND2	2:O:162:LEU:HD12	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:VAL:CG1	1:E:499:ILE:HG13	2.16	0.76
1:F:408:GLN:HG2	1:F:413:VAL:HG12	1.65	0.76
1:L:465:ALA:CB	1:L:475:ILE:HD11	2.13	0.76
1:D:265:LYS:HE2	1:E:245:LEU:HB2	1.65	0.76
1:D:372:ILE:CG2	1:D:415:ILE:HD13	2.15	0.76
1:E:465:ALA:CB	1:E:475:ILE:HD11	2.13	0.76
1:I:372:ILE:CG2	1:I:415:ILE:HD13	2.15	0.76
1:J:294:LEU:HA	1:K:273:LEU:CD2	2.16	0.76
2:Q:161:LEU:HD22	2:Q:162:LEU:N	2.01	0.76
1:B:294:LEU:HA	1:C:273:LEU:CD2	2.16	0.76
1:C:295:ASN:N	1:D:273:LEU:CG	2.27	0.76
1:C:447:GLN:HG3	1:D:508:GLU:CD	2.07	0.76
1:E:372:ILE:CG2	1:E:415:ILE:HD13	2.15	0.76
1:F:299:GLN:NE2	1:G:227:ASN:CG	2.44	0.76
1:G:299:GLN:NE2	1:H:227:ASN:CG	2.44	0.76
1:I:307:ASN:ND2	2:U:162:LEU:HD12	2.00	0.76
2:O:161:LEU:HD22	2:O:162:LEU:N	2.01	0.76
1:B:492:VAL:CG1	1:B:499:ILE:HG13	2.16	0.76
1:C:492:VAL:CG1	1:C:499:ILE:HG13	2.16	0.76
1:E:299:GLN:NE2	1:F:227:ASN:CG	2.44	0.76
1:F:265:LYS:HE2	1:G:245:LEU:HB2	1.65	0.76
1:G:492:VAL:CG1	1:G:499:ILE:HG13	2.16	0.76
1:K:465:ALA:CB	1:K:475:ILE:HD11	2.13	0.76
2:N:161:LEU:HD22	2:N:162:LEU:N	2.01	0.76
2:P:161:LEU:HD22	2:P:162:LEU:N	2.01	0.76
2:V:161:LEU:HD22	2:V:162:LEU:N	2.01	0.76
1:F:294:LEU:HA	1:G:273:LEU:CD2	2.16	0.76
1:H:294:LEU:HA	1:I:273:LEU:CD2	2.16	0.76
1:J:307:ASN:ND2	2:V:162:LEU:HD12	2.00	0.76
2:O:161:LEU:O	2:O:161:LEU:HD13	1.86	0.76
1:A:448:LEU:HD11	1:A:506:ILE:HG23	1.67	0.76
1:B:307:ASN:ND2	2:N:162:LEU:HD12	2.00	0.76
1:E:406:MET:HE2	1:E:415:ILE:HD11	1.68	0.76
1:H:404:LEU:H	1:H:404:LEU:HD22	1.51	0.76
1:L:492:VAL:CG1	1:L:499:ILE:HG13	2.16	0.76
2:U:161:LEU:HD22	2:U:162:LEU:N	2.01	0.76
1:A:424:LYS:HD2	1:A:440:ALA:CA	2.16	0.76
1:F:447:GLN:HG3	1:G:508:GLU:CD	2.07	0.76
1:F:448:LEU:HD11	1:F:506:ILE:HG23	1.67	0.76
1:H:406:MET:HE2	1:H:415:ILE:HD11	1.68	0.76
1:I:294:LEU:HA	1:J:273:LEU:CD2	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:LEU:HD22	1:K:404:LEU:H	1.51	0.76
1:K:406:MET:HE2	1:K:415:ILE:HD11	1.68	0.76
2:P:161:LEU:O	2:P:161:LEU:HD13	1.86	0.76
2:Q:161:LEU:HD13	2:Q:161:LEU:O	1.86	0.76
2:T:133:ILE:HD11	2:T:141:ILE:HG22	1.68	0.76
2:U:133:ILE:HD11	2:U:141:ILE:HG22	1.68	0.76
1:H:299:GLN:NE2	1:I:227:ASN:CG	2.44	0.75
1:H:492:VAL:CG1	1:H:499:ILE:HG13	2.16	0.75
1:J:404:LEU:H	1:J:404:LEU:HD22	1.51	0.75
1:J:406:MET:HE2	1:J:415:ILE:HD11	1.68	0.75
2:S:161:LEU:HD22	2:S:162:LEU:N	2.01	0.75
1:A:406:MET:HE2	1:A:415:ILE:HD11	1.68	0.75
1:B:299:GLN:NE2	1:C:227:ASN:CG	2.44	0.75
1:C:265:LYS:HE2	1:D:245:LEU:HB2	1.65	0.75
1:L:404:LEU:HD22	1:L:404:LEU:H	1.51	0.75
2:N:161:LEU:HD13	2:N:161:LEU:O	1.86	0.75
1:A:294:LEU:HA	1:B:273:LEU:CD2	2.16	0.75
1:B:265:LYS:HE2	1:C:245:LEU:HB2	1.65	0.75
1:B:424:LYS:HD2	1:B:440:ALA:CA	2.16	0.75
1:E:448:LEU:HD11	1:E:506:ILE:HG23	1.67	0.75
1:G:404:LEU:H	1:G:404:LEU:HD22	1.51	0.75
1:G:406:MET:HE2	1:G:415:ILE:HD11	1.68	0.75
1:J:465:ALA:CB	1:J:475:ILE:HD11	2.13	0.75
1:J:492:VAL:CG1	1:J:499:ILE:HG13	2.16	0.75
2:S:161:LEU:O	2:S:161:LEU:HD13	1.86	0.75
1:A:245:LEU:HB2	1:L:265:LYS:HE2	1.65	0.75
1:B:406:MET:HE2	1:B:415:ILE:HD11	1.68	0.75
1:F:465:ALA:CB	1:F:475:ILE:HD11	2.13	0.75
1:J:299:GLN:NE2	1:K:227:ASN:CG	2.44	0.75
1:K:294:LEU:HA	1:L:273:LEU:CD2	2.16	0.75
2:M:161:LEU:HD22	2:M:162:LEU:N	2.01	0.75
2:O:133:ILE:HD11	2:O:141:ILE:HG22	1.68	0.75
2:P:133:ILE:HD11	2:P:141:ILE:HG22	1.69	0.75
2:Q:133:ILE:HD11	2:Q:141:ILE:HG22	1.68	0.75
2:S:133:ILE:HD11	2:S:141:ILE:HG22	1.69	0.75
2:T:161:LEU:O	2:T:161:LEU:HD13	1.86	0.75
2:V:133:ILE:HD11	2:V:141:ILE:HG22	1.69	0.75
2:V:161:LEU:HD13	2:V:161:LEU:O	1.86	0.75
2:W:161:LEU:HD22	2:W:162:LEU:N	2.01	0.75
1:A:404:LEU:HD22	1:A:404:LEU:H	1.51	0.75
1:A:492:VAL:CG1	1:A:499:ILE:HG13	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:448:LEU:HD11	1:B:506:ILE:HG23	1.67	0.75
1:D:299:GLN:NE2	1:E:227:ASN:CG	2.44	0.75
1:D:492:VAL:CG1	1:D:499:ILE:HG13	2.16	0.75
1:F:492:VAL:CG1	1:F:499:ILE:HG13	2.16	0.75
1:G:294:LEU:HA	1:H:273:LEU:CD2	2.16	0.75
1:H:294:LEU:CA	1:I:273:LEU:CD2	2.64	0.75
1:I:404:LEU:HD22	1:I:404:LEU:H	1.51	0.75
2:U:161:LEU:O	2:U:161:LEU:HD13	1.86	0.75
2:W:133:ILE:HD11	2:W:141:ILE:HG22	1.68	0.75
2:X:133:ILE:HD11	2:X:141:ILE:HG22	1.68	0.75
1:B:404:LEU:H	1:B:404:LEU:HD22	1.51	0.75
1:D:404:LEU:HD22	1:D:404:LEU:H	1.51	0.75
1:D:406:MET:HE2	1:D:415:ILE:HD11	1.68	0.75
1:K:299:GLN:NE2	1:L:227:ASN:CG	2.44	0.75
2:M:133:ILE:HD11	2:M:141:ILE:HG22	1.69	0.75
2:N:133:ILE:HD11	2:N:141:ILE:HG22	1.68	0.75
2:R:133:ILE:HD11	2:R:141:ILE:HG22	1.68	0.75
2:R:161:LEU:O	2:R:161:LEU:HD13	1.86	0.75
1:A:261:ILE:HG21	1:B:229:ASP:CG	2.10	0.75
1:A:273:LEU:CD2	1:L:294:LEU:HA	2.16	0.75
1:C:299:GLN:NE2	1:D:227:ASN:CG	2.44	0.75
1:B:295:ASN:N	1:C:273:LEU:CG	2.26	0.75
1:D:294:LEU:HA	1:E:273:LEU:CD2	2.16	0.75
1:F:424:LYS:HD2	1:F:440:ALA:CA	2.16	0.75
1:G:424:LYS:HD2	1:G:440:ALA:CA	2.16	0.75
1:I:492:VAL:CG1	1:I:499:ILE:HG13	2.16	0.75
1:A:299:GLN:NE2	1:B:227:ASN:CG	2.44	0.75
1:B:230:PHE:CD1	1:B:279:VAL:HG11	2.22	0.75
1:C:294:LEU:HA	1:D:273:LEU:CD2	2.16	0.75
1:C:404:LEU:HD22	1:C:404:LEU:H	1.51	0.75
1:C:448:LEU:HD11	1:C:506:ILE:HG23	1.67	0.75
1:D:448:LEU:HD11	1:D:506:ILE:HG23	1.67	0.75
1:F:294:LEU:CA	1:G:273:LEU:CD2	2.65	0.75
1:J:508:GLU:O	1:J:512:PRO:HD2	1.87	0.75
1:K:265:LYS:HE2	1:L:245:LEU:HB2	1.65	0.75
2:M:161:LEU:O	2:M:161:LEU:HD13	1.86	0.75
2:T:161:LEU:HD22	2:T:162:LEU:N	2.01	0.75
2:X:161:LEU:HD22	2:X:162:LEU:N	2.01	0.75
1:E:294:LEU:HA	1:F:273:LEU:CD2	2.16	0.74
1:I:294:LEU:CA	1:J:273:LEU:CD2	2.65	0.74
1:J:230:PHE:CD1	1:J:279:VAL:HG11	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:424:LYS:HD2	1:J:440:ALA:CA	2.16	0.74
1:D:294:LEU:HD21	1:E:227:ASN:HB3	1.70	0.74
1:E:230:PHE:CD1	1:E:279:VAL:HG11	2.22	0.74
1:H:424:LYS:HD2	1:H:440:ALA:CA	2.16	0.74
1:I:230:PHE:CD1	1:I:279:VAL:HG11	2.22	0.74
1:I:299:GLN:NE2	1:J:227:ASN:CG	2.44	0.74
1:K:343:PHE:CD2	1:L:472:ASN:OD1	2.22	0.74
2:W:161:LEU:O	2:W:161:LEU:HD13	1.86	0.74
1:A:508:GLU:O	1:A:512:PRO:HD2	1.87	0.74
1:B:294:LEU:HD21	1:C:227:ASN:HB3	1.69	0.74
1:A:230:PHE:CD1	1:A:279:VAL:HG11	2.22	0.74
1:C:230:PHE:CD1	1:C:279:VAL:HG11	2.22	0.74
1:C:465:ALA:CB	1:C:475:ILE:HD11	2.13	0.74
1:E:424:LYS:HD2	1:E:440:ALA:CA	2.16	0.74
1:H:265:LYS:HE2	1:I:245:LEU:HB2	1.65	0.74
1:I:424:LYS:HD2	1:I:440:ALA:CA	2.16	0.74
1:K:456:PHE:CE1	1:K:509:LEU:HB2	2.23	0.74
2:X:161:LEU:O	2:X:161:LEU:HD13	1.86	0.74
1:B:378:VAL:O	1:B:417:PRO:HB3	1.88	0.74
1:C:424:LYS:HD2	1:C:440:ALA:CA	2.16	0.74
1:D:424:LYS:HD2	1:D:440:ALA:CA	2.16	0.74
1:E:294:LEU:CA	1:F:273:LEU:CD2	2.64	0.74
1:E:508:GLU:O	1:E:512:PRO:HD2	1.87	0.74
1:F:261:ILE:HG21	1:G:229:ASP:CG	2.10	0.74
1:F:406:MET:HE2	1:F:415:ILE:HD11	1.68	0.74
1:H:456:PHE:CE1	1:H:509:LEU:HB2	2.23	0.74
1:L:508:GLU:O	1:L:512:PRO:HD2	1.87	0.74
1:C:378:VAL:O	1:C:417:PRO:HB3	1.88	0.74
1:D:378:VAL:O	1:D:417:PRO:HB3	1.88	0.74
1:E:404:LEU:H	1:E:404:LEU:HD22	1.51	0.74
1:F:404:LEU:HD22	1:F:404:LEU:H	1.51	0.74
1:F:508:GLU:O	1:F:512:PRO:HD2	1.87	0.74
1:K:230:PHE:CD1	1:K:279:VAL:HG11	2.22	0.74
1:K:424:LYS:HD2	1:K:440:ALA:CA	2.16	0.74
1:A:378:VAL:O	1:A:417:PRO:HB3	1.88	0.74
1:D:230:PHE:CD1	1:D:279:VAL:HG11	2.22	0.74
1:E:378:VAL:O	1:E:417:PRO:HB3	1.88	0.74
1:H:230:PHE:CD1	1:H:279:VAL:HG11	2.22	0.74
1:J:456:PHE:CE1	1:J:509:LEU:HB2	2.23	0.74
1:K:492:VAL:CG1	1:K:499:ILE:HG13	2.16	0.74
1:A:265:LYS:HE2	1:B:245:LEU:HB2	1.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:LYS:HZ1	2:N:104:GLY:CA	1.91	0.74
1:G:456:PHE:CE1	1:G:509:LEU:HB2	2.23	0.74
1:L:406:MET:HE2	1:L:415:ILE:HD11	1.68	0.74
1:D:508:GLU:O	1:D:512:PRO:HD2	1.87	0.74
2:W:126:LEU:HD22	2:W:131:GLY:HA3	1.70	0.74
2:X:126:LEU:HD22	2:X:131:GLY:HA3	1.70	0.74
1:A:227:ASN:CG	1:L:299:GLN:NE2	2.44	0.74
1:F:378:VAL:O	1:F:417:PRO:HB3	1.88	0.74
1:G:230:PHE:CD1	1:G:279:VAL:HG11	2.22	0.74
1:K:508:GLU:O	1:K:512:PRO:HD2	1.87	0.74
1:L:378:VAL:O	1:L:417:PRO:HB3	1.88	0.74
1:A:294:LEU:HD21	1:B:227:ASN:HB3	1.70	0.73
1:G:294:LEU:CA	1:H:273:LEU:CD2	2.65	0.73
1:G:378:VAL:O	1:G:417:PRO:HB3	1.88	0.73
1:G:508:GLU:O	1:G:512:PRO:HD2	1.87	0.73
1:K:378:VAL:O	1:K:417:PRO:HB3	1.88	0.73
1:L:230:PHE:CD1	1:L:279:VAL:HG11	2.22	0.73
1:L:456:PHE:CE1	1:L:509:LEU:HB2	2.23	0.73
2:M:126:LEU:HD22	2:M:131:GLY:HA3	1.70	0.73
1:B:456:PHE:CE1	1:B:509:LEU:HB2	2.23	0.73
1:E:261:ILE:HG21	1:F:229:ASP:CG	2.10	0.73
1:G:351:ASP:OD2	2:S:99:GLY:HA2	1.89	0.73
2:V:126:LEU:HD22	2:V:131:GLY:HA3	1.70	0.73
1:E:351:ASP:OD2	2:Q:99:GLY:HA3	1.89	0.73
1:F:230:PHE:CD1	1:F:279:VAL:HG11	2.22	0.73
1:F:351:ASP:OD2	2:R:99:GLY:HA3	1.89	0.73
1:G:351:ASP:OD2	2:S:99:GLY:HA3	1.89	0.73
1:H:378:VAL:O	1:H:417:PRO:HB3	1.88	0.73
1:H:508:GLU:O	1:H:512:PRO:HD2	1.87	0.73
1:I:406:MET:HE2	1:I:415:ILE:HD11	1.68	0.73
1:I:456:PHE:CE1	1:I:509:LEU:HB2	2.23	0.73
1:I:508:GLU:O	1:I:512:PRO:HD2	1.87	0.73
1:J:378:VAL:O	1:J:417:PRO:HB3	1.88	0.73
1:K:294:LEU:HD21	1:L:227:ASN:HB3	1.69	0.73
1:C:508:GLU:O	1:C:512:PRO:HD2	1.87	0.73
1:E:294:LEU:HD21	1:F:227:ASN:HB3	1.69	0.73
1:F:294:LEU:HD21	1:G:227:ASN:HB3	1.70	0.73
1:G:261:ILE:HG21	1:H:229:ASP:CG	2.10	0.73
1:I:378:VAL:O	1:I:417:PRO:HB3	1.88	0.73
1:A:456:PHE:CE1	1:A:509:LEU:HB2	2.23	0.73
1:C:406:MET:HE2	1:C:415:ILE:HD11	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:351:ASP:OD2	2:P:99:GLY:HA3	1.89	0.73
1:E:456:PHE:CE1	1:E:509:LEU:HB2	2.23	0.73
1:H:351:ASP:OD2	2:T:99:GLY:HA3	1.89	0.73
1:A:227:ASN:HB3	1:L:294:LEU:HD21	1.70	0.73
1:D:404:LEU:CD1	1:D:417:PRO:HA	2.08	0.73
1:E:351:ASP:OD2	2:Q:99:GLY:HA2	1.89	0.73
1:G:294:LEU:HD21	1:H:227:ASN:HB3	1.70	0.73
1:I:351:ASP:OD2	2:U:99:GLY:HA2	1.89	0.73
1:J:294:LEU:CA	1:K:273:LEU:CD2	2.65	0.73
1:J:351:ASP:OD2	2:V:99:GLY:HA2	1.89	0.73
2:N:126:LEU:HD22	2:N:131:GLY:HA3	1.70	0.73
2:U:126:LEU:HD22	2:U:131:GLY:HA3	1.70	0.73
2:Q:126:LEU:HD22	2:Q:131:GLY:HA3	1.70	0.73
1:A:229:ASP:CG	1:L:261:ILE:HG21	2.10	0.73
2:R:126:LEU:HD22	2:R:131:GLY:HA3	1.70	0.73
1:D:456:PHE:CE1	1:D:509:LEU:HB2	2.23	0.73
1:H:465:ALA:CB	1:H:475:ILE:HD11	2.13	0.73
1:L:347:LYS:CE	2:X:104:GLY:CA	2.67	0.73
1:L:351:ASP:OD2	2:X:99:GLY:HA2	1.89	0.73
1:A:465:ALA:CB	1:A:475:ILE:HD11	2.13	0.73
1:B:508:GLU:O	1:B:512:PRO:HD2	1.87	0.73
1:I:351:ASP:OD2	2:U:99:GLY:HA3	1.89	0.73
1:L:424:LYS:HD2	1:L:440:ALA:CA	2.16	0.73
1:C:351:ASP:OD2	2:O:99:GLY:HA3	1.89	0.72
1:C:456:PHE:CE1	1:C:509:LEU:HB2	2.23	0.72
1:H:261:ILE:HG21	1:I:229:ASP:CG	2.10	0.72
1:I:294:LEU:HD21	1:J:227:ASN:HB3	1.70	0.72
1:L:350:LEU:HD12	1:L:352:PHE:HE2	1.55	0.72
2:T:126:LEU:HD22	2:T:131:GLY:HA3	1.70	0.72
1:E:347:LYS:CE	2:Q:104:GLY:CA	2.67	0.72
1:F:404:LEU:HB2	1:F:415:ILE:CG2	2.20	0.72
1:F:456:PHE:CE1	1:F:509:LEU:HB2	2.23	0.72
1:H:347:LYS:CE	2:T:104:GLY:CA	2.67	0.72
1:E:404:LEU:HB2	1:E:415:ILE:CG2	2.20	0.72
1:G:350:LEU:HD12	1:G:352:PHE:HE2	1.55	0.72
1:G:404:LEU:HB2	1:G:415:ILE:CG2	2.20	0.72
2:P:126:LEU:HD22	2:P:131:GLY:HA3	1.70	0.72
1:B:404:LEU:CD1	1:B:417:PRO:HA	2.08	0.72
1:D:404:LEU:HB2	1:D:415:ILE:CG2	2.20	0.72
1:H:404:LEU:HB2	1:H:415:ILE:CG2	2.20	0.72
2:O:126:LEU:HD22	2:O:131:GLY:HA3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:ASP:OD2	2:O:99:GLY:HA2	1.89	0.72
1:H:350:LEU:HD12	1:H:352:PHE:HE2	1.55	0.72
1:K:351:ASP:OD2	2:W:99:GLY:HA2	1.89	0.72
2:S:126:LEU:HD22	2:S:131:GLY:HA3	1.70	0.72
1:C:404:LEU:HB2	1:C:415:ILE:CG2	2.20	0.72
1:D:294:LEU:CA	1:E:273:LEU:CD2	2.65	0.72
1:A:294:LEU:HD13	1:A:299:GLN:HB2	1.72	0.72
1:A:350:LEU:HD12	1:A:352:PHE:HE2	1.55	0.72
1:D:350:LEU:HD12	1:D:352:PHE:HE2	1.55	0.72
1:F:351:ASP:OD2	2:R:99:GLY:HA2	1.89	0.72
1:C:347:LYS:CE	2:O:104:GLY:CA	2.67	0.72
1:D:351:ASP:OD2	2:P:99:GLY:HA2	1.89	0.72
1:I:404:LEU:HB2	1:I:415:ILE:CG2	2.20	0.72
1:L:294:LEU:HD13	1:L:299:GLN:HB2	1.72	0.72
1:A:351:ASP:OD2	2:M:99:GLY:HA2	1.89	0.72
1:C:294:LEU:HD21	1:D:227:ASN:HB3	1.70	0.72
1:D:261:ILE:HG21	1:E:229:ASP:CG	2.10	0.72
1:H:351:ASP:OD2	2:T:99:GLY:HA2	1.89	0.72
1:I:261:ILE:HG21	1:J:229:ASP:CG	2.10	0.72
1:J:351:ASP:OD2	2:V:99:GLY:HA3	1.89	0.72
1:B:294:LEU:HD13	1:B:299:GLN:HB2	1.72	0.72
1:C:350:LEU:HD12	1:C:352:PHE:HE2	1.55	0.72
1:I:347:LYS:CE	2:U:104:GLY:CA	2.67	0.72
1:J:294:LEU:HD13	1:J:299:GLN:HB2	1.72	0.72
1:K:265:LYS:CG	1:L:245:LEU:HD11	2.20	0.72
1:K:294:LEU:HD13	1:K:299:GLN:HB2	1.72	0.72
1:K:350:LEU:HD12	1:K:352:PHE:HE2	1.55	0.72
1:A:483:ILE:HD11	1:A:491:ILE:CD1	2.21	0.71
1:B:404:LEU:HB2	1:B:415:ILE:CG2	2.20	0.71
1:C:404:LEU:CD1	1:C:417:PRO:HA	2.08	0.71
1:I:347:LYS:HZ2	2:U:104:GLY:CA	1.96	0.71
1:L:483:ILE:HD11	1:L:491:ILE:CD1	2.21	0.71
1:A:347:LYS:CE	2:M:104:GLY:CA	2.67	0.71
1:B:351:ASP:OD2	2:N:99:GLY:HA3	1.89	0.71
1:B:483:ILE:HD11	1:B:491:ILE:CD1	2.21	0.71
1:C:294:LEU:HD13	1:C:299:GLN:HB2	1.72	0.71
1:C:483:ILE:HD11	1:C:491:ILE:CD1	2.21	0.71
1:F:265:LYS:CG	1:G:245:LEU:HD11	2.20	0.71
1:K:483:ILE:HD11	1:K:491:ILE:CD1	2.21	0.71
1:B:265:LYS:HG3	1:C:245:LEU:HD11	1.72	0.71
1:D:347:LYS:HZ1	2:P:104:GLY:CA	1.94	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:350:LEU:HD12	1:F:352:PHE:HE2	1.55	0.71
1:H:294:LEU:HD21	1:I:227:ASN:HB3	1.69	0.71
1:I:350:LEU:HD12	1:I:352:PHE:HE2	1.55	0.71
1:J:265:LYS:CG	1:K:245:LEU:HD11	2.20	0.71
1:J:404:LEU:HB2	1:J:415:ILE:CG2	2.20	0.71
1:J:483:ILE:HD11	1:J:491:ILE:CD1	2.21	0.71
1:L:404:LEU:HB2	1:L:415:ILE:CG2	2.20	0.71
1:A:265:LYS:CG	1:B:245:LEU:HD11	2.20	0.71
1:B:351:ASP:OD2	2:N:99:GLY:HA2	1.89	0.71
1:C:265:LYS:HG3	1:D:245:LEU:HD11	1.72	0.71
1:F:347:LYS:CE	2:R:104:GLY:CA	2.67	0.71
1:H:265:LYS:CG	1:I:245:LEU:HD11	2.20	0.71
1:H:294:LEU:HD13	1:H:299:GLN:HB2	1.72	0.71
1:I:294:LEU:HD13	1:I:299:GLN:HB2	1.72	0.71
1:K:448:LEU:HD11	1:K:506:ILE:CG2	2.21	0.71
1:D:483:ILE:HD11	1:D:491:ILE:CD1	2.21	0.71
1:E:265:LYS:CG	1:F:245:LEU:HD11	2.20	0.71
1:F:343:PHE:CD2	1:G:472:ASN:OD1	2.22	0.71
2:M:98:VAL:HG11	2:M:112:GLU:HB3	1.73	0.71
2:W:98:VAL:HG11	2:W:112:GLU:HB3	1.73	0.71
2:X:98:VAL:HG11	2:X:112:GLU:HB3	1.73	0.71
1:C:265:LYS:CG	1:D:245:LEU:HD11	2.20	0.71
1:D:294:LEU:HD13	1:D:299:GLN:HB2	1.72	0.71
1:G:294:LEU:HD13	1:G:299:GLN:HB2	1.72	0.71
1:E:294:LEU:HD13	1:E:299:GLN:HB2	1.72	0.71
1:J:261:ILE:HG21	1:K:229:ASP:CG	2.10	0.71
1:J:294:LEU:HD21	1:K:227:ASN:HB3	1.70	0.71
2:V:98:VAL:HG11	2:V:112:GLU:HB3	1.73	0.71
1:A:404:LEU:HB2	1:A:415:ILE:CG2	2.20	0.71
1:E:350:LEU:HD12	1:E:352:PHE:HE2	1.55	0.71
1:F:294:LEU:HD13	1:F:299:GLN:HB2	1.72	0.71
1:G:448:LEU:HD11	1:G:506:ILE:CG2	2.21	0.71
1:I:409:GLN:HE21	1:I:412:ILE:HG23	1.56	0.71
1:I:483:ILE:HD11	1:I:491:ILE:CD1	2.21	0.71
1:A:245:LEU:HD11	1:L:265:LYS:CG	2.20	0.71
1:A:245:LEU:HD11	1:L:265:LYS:HG3	1.72	0.71
1:B:409:GLN:HE21	1:B:412:ILE:HG23	1.56	0.71
1:C:409:GLN:HE21	1:C:412:ILE:HG23	1.56	0.71
1:F:404:LEU:CD1	1:F:417:PRO:HA	2.08	0.71
1:H:409:GLN:HE21	1:H:412:ILE:HG23	1.56	0.71
1:J:409:GLN:HE21	1:J:412:ILE:HG23	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:261:ILE:HG21	1:L:229:ASP:CG	2.10	0.71
1:K:265:LYS:HG3	1:L:245:LEU:HD11	1.72	0.71
1:K:404:LEU:HB2	1:K:415:ILE:CG2	2.20	0.71
1:A:409:GLN:HE21	1:A:412:ILE:HG23	1.56	0.70
1:C:457:ARG:NH2	1:C:460:LEU:HD12	2.06	0.70
1:D:265:LYS:CG	1:E:245:LEU:HD11	2.20	0.70
1:G:409:GLN:HE21	1:G:412:ILE:HG23	1.56	0.70
1:G:459:ILE:HD13	1:G:509:LEU:CD1	2.21	0.70
1:L:409:GLN:HE21	1:L:412:ILE:HG23	1.56	0.70
2:N:98:VAL:HG11	2:N:112:GLU:HB3	1.73	0.70
1:D:409:GLN:HE21	1:D:412:ILE:HG23	1.56	0.70
1:E:404:LEU:CD1	1:E:417:PRO:HA	2.08	0.70
1:E:483:ILE:HD11	1:E:491:ILE:CD1	2.21	0.70
1:F:409:GLN:HE21	1:F:412:ILE:HG23	1.56	0.70
1:H:265:LYS:HG3	1:I:245:LEU:HD11	1.72	0.70
1:K:351:ASP:OD2	2:W:99:GLY:HA3	1.89	0.70
1:K:409:GLN:HE21	1:K:412:ILE:HG23	1.56	0.70
1:L:459:ILE:HD13	1:L:509:LEU:CD1	2.21	0.70
1:A:351:ASP:OD2	2:M:99:GLY:HA3	1.89	0.70
1:D:448:LEU:HD11	1:D:506:ILE:CG2	2.21	0.70
1:E:409:GLN:HE21	1:E:412:ILE:HG23	1.56	0.70
1:E:448:LEU:HD11	1:E:506:ILE:CG2	2.21	0.70
1:F:457:ARG:NH2	1:F:460:LEU:HD12	2.06	0.70
1:H:448:LEU:HD11	1:H:506:ILE:CG2	2.21	0.70
1:J:347:LYS:CE	2:V:104:GLY:CA	2.67	0.70
2:T:98:VAL:HG11	2:T:112:GLU:HB3	1.73	0.70
1:C:448:LEU:HD11	1:C:506:ILE:CG2	2.21	0.70
1:D:457:ARG:NH2	1:D:460:LEU:HD12	2.06	0.70
1:G:396:ASP:OD1	1:H:467:THR:HG21	1.67	0.70
1:H:459:ILE:HD13	1:H:509:LEU:CD1	2.21	0.70
1:I:354:ASP:C	1:I:381:LYS:HD3	2.17	0.70
1:I:448:LEU:HD11	1:I:506:ILE:CG2	2.21	0.70
1:C:307:ASN:CG	2:O:162:LEU:HD12	2.17	0.70
1:C:354:ASP:C	1:C:381:LYS:HD3	2.17	0.70
1:C:459:ILE:HD13	1:C:509:LEU:CD1	2.21	0.70
1:E:372:ILE:HG23	1:E:415:ILE:CD1	2.22	0.70
1:G:265:LYS:HG3	1:H:245:LEU:HD11	1.72	0.70
1:H:467:THR:HG21	1:H:476:SER:CB	2.22	0.70
1:J:350:LEU:HD12	1:J:352:PHE:HE2	1.55	0.70
1:K:347:LYS:HZ1	2:W:104:GLY:CA	1.98	0.70
2:U:98:VAL:HG11	2:U:112:GLU:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:LEU:HD12	1:A:352:PHE:CE2	2.27	0.70
1:D:396:ASP:OD1	1:E:467:THR:HB	1.91	0.70
1:H:307:ASN:CG	2:T:162:LEU:HD12	2.17	0.70
1:J:467:THR:HG21	1:J:476:SER:CB	2.22	0.70
1:A:299:GLN:NE2	1:B:227:ASN:OD1	2.25	0.70
1:A:452:ASN:OD1	1:A:455:GLU:HB2	1.92	0.70
1:A:459:ILE:HD13	1:A:509:LEU:CD1	2.21	0.70
1:B:448:LEU:HD11	1:B:506:ILE:CG2	2.21	0.70
1:C:261:ILE:HG21	1:D:229:ASP:CG	2.10	0.70
1:E:307:ASN:CG	2:Q:162:LEU:HD12	2.17	0.70
1:E:350:LEU:HD12	1:E:352:PHE:CE2	2.27	0.70
1:E:452:ASN:OD1	1:E:455:GLU:HB2	1.92	0.70
1:F:448:LEU:HD11	1:F:506:ILE:CG2	2.21	0.70
1:H:452:ASN:OD1	1:H:455:GLU:HB2	1.92	0.70
1:H:483:ILE:HD11	1:H:491:ILE:CD1	2.21	0.70
1:I:350:LEU:HD12	1:I:352:PHE:CE2	2.27	0.70
1:I:459:ILE:HD13	1:I:509:LEU:CD1	2.21	0.70
1:K:452:ASN:OD1	1:K:455:GLU:HB2	1.92	0.70
1:K:467:THR:HG21	1:K:476:SER:CB	2.22	0.70
1:A:354:ASP:O	1:A:381:LYS:HD3	1.92	0.70
1:B:299:GLN:NE2	1:C:227:ASN:OD1	2.25	0.70
1:B:350:LEU:HD12	1:B:352:PHE:CE2	2.27	0.70
1:D:347:LYS:CE	2:P:104:GLY:CA	2.67	0.70
1:D:452:ASN:OD1	1:D:455:GLU:HB2	1.92	0.70
1:F:299:GLN:NE2	1:G:227:ASN:OD1	2.25	0.70
1:F:307:ASN:CG	2:R:162:LEU:HD12	2.17	0.70
1:G:467:THR:HG21	1:G:476:SER:CB	2.22	0.70
1:J:307:ASN:CG	2:V:162:LEU:HD12	2.17	0.70
1:J:448:LEU:HD11	1:J:506:ILE:CG2	2.21	0.70
1:L:351:ASP:OD2	2:X:99:GLY:HA3	1.89	0.70
2:S:98:VAL:HG11	2:S:112:GLU:HB3	1.73	0.70
1:A:404:LEU:CD1	1:A:417:PRO:HA	2.08	0.70
1:A:457:ARG:NH2	1:A:460:LEU:HD12	2.06	0.70
1:B:350:LEU:HD12	1:B:352:PHE:HE2	1.55	0.70
1:B:354:ASP:C	1:B:381:LYS:HD3	2.17	0.70
1:B:459:ILE:HD13	1:B:509:LEU:CD1	2.21	0.70
1:F:350:LEU:HD12	1:F:352:PHE:CE2	2.27	0.70
1:F:452:ASN:OD1	1:F:455:GLU:HB2	1.92	0.70
1:F:483:ILE:HD11	1:F:491:ILE:CD1	2.21	0.70
1:H:354:ASP:O	1:H:381:LYS:HD3	1.92	0.70
1:I:265:LYS:HG3	1:J:245:LEU:HD11	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:448:LEU:HD11	1:L:506:ILE:CG2	2.21	0.70
1:L:459:ILE:HG13	1:L:460:LEU:N	2.07	0.70
1:A:227:ASN:OD1	1:L:299:GLN:NE2	2.25	0.70
1:A:265:LYS:HG3	1:B:245:LEU:HD11	1.72	0.70
1:A:307:ASN:CG	2:M:162:LEU:HD12	2.17	0.70
1:B:354:ASP:O	1:B:381:LYS:HD3	1.92	0.70
1:B:372:ILE:HG23	1:B:415:ILE:CD1	2.22	0.70
1:C:354:ASP:O	1:C:381:LYS:HD3	1.92	0.70
1:E:265:LYS:HG3	1:F:245:LEU:HD11	1.72	0.70
1:E:467:THR:HG21	1:E:476:SER:CB	2.22	0.70
1:G:265:LYS:CG	1:H:245:LEU:HD11	2.20	0.70
1:G:307:ASN:CG	2:S:162:LEU:HD12	2.17	0.70
1:G:354:ASP:O	1:G:381:LYS:HD3	1.92	0.70
2:O:98:VAL:HG11	2:O:112:GLU:HB3	1.73	0.70
1:A:448:LEU:HD11	1:A:506:ILE:CG2	2.21	0.69
1:A:467:THR:HB	1:L:396:ASP:OD1	1.91	0.69
1:B:347:LYS:CE	2:N:104:GLY:CA	2.67	0.69
1:D:372:ILE:HG23	1:D:415:ILE:CD1	2.22	0.69
1:E:299:GLN:NE2	1:F:227:ASN:OD1	2.25	0.69
1:E:457:ARG:NH2	1:E:460:LEU:HD12	2.06	0.69
1:G:372:ILE:HG23	1:G:415:ILE:CD1	2.22	0.69
1:H:372:ILE:HG23	1:H:415:ILE:CD1	2.22	0.69
1:I:452:ASN:OD1	1:I:455:GLU:HB2	1.92	0.69
1:K:396:ASP:OD1	1:L:467:THR:HB	1.91	0.69
1:K:459:ILE:HD13	1:K:509:LEU:CD1	2.21	0.69
1:L:350:LEU:HD12	1:L:352:PHE:CE2	2.27	0.69
1:L:452:ASN:OD1	1:L:455:GLU:HB2	1.92	0.69
1:D:350:LEU:HD12	1:D:352:PHE:CE2	2.27	0.69
1:F:354:ASP:O	1:F:381:LYS:HD3	1.92	0.69
1:F:354:ASP:C	1:F:381:LYS:HD3	2.17	0.69
1:G:396:ASP:OD1	1:H:467:THR:HB	1.91	0.69
1:H:354:ASP:C	1:H:381:LYS:HD3	2.17	0.69
1:I:293:ARG:NH1	1:J:272:THR:CG2	2.48	0.69
1:I:396:ASP:OD1	1:J:467:THR:HG21	1.67	0.69
1:J:452:ASN:OD1	1:J:455:GLU:HB2	1.92	0.69
1:K:354:ASP:C	1:K:381:LYS:HD3	2.17	0.69
1:K:459:ILE:HG13	1:K:460:LEU:N	2.07	0.69
1:L:307:ASN:CG	2:X:162:LEU:HD12	2.17	0.69
1:L:354:ASP:C	1:L:381:LYS:HD3	2.17	0.69
1:A:467:THR:HG21	1:A:476:SER:CB	2.22	0.69
1:E:354:ASP:O	1:E:381:LYS:HD3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:457:ARG:NH2	1:G:460:LEU:HD12	2.06	0.69
1:G:483:ILE:HD11	1:G:491:ILE:CD1	2.21	0.69
1:K:299:GLN:NE2	1:L:227:ASN:OD1	2.25	0.69
1:L:457:ARG:NH2	1:L:460:LEU:HD12	2.06	0.69
1:A:265:LYS:CG	1:B:245:LEU:CD1	2.70	0.69
1:A:459:ILE:HG13	1:A:460:LEU:N	2.07	0.69
1:B:452:ASN:OD1	1:B:455:GLU:HB2	1.92	0.69
1:C:372:ILE:HG23	1:C:415:ILE:CD1	2.22	0.69
1:C:395:LEU:O	1:C:399:MET:HG2	1.93	0.69
1:D:265:LYS:HG3	1:E:245:LEU:HD11	1.72	0.69
1:F:265:LYS:HG3	1:G:245:LEU:HD11	1.72	0.69
1:G:347:LYS:HZ2	2:S:104:GLY:CA	1.94	0.69
1:G:354:ASP:C	1:G:381:LYS:HD3	2.17	0.69
1:H:350:LEU:HD12	1:H:352:PHE:CE2	2.27	0.69
1:J:354:ASP:C	1:J:381:LYS:HD3	2.17	0.69
1:J:354:ASP:O	1:J:381:LYS:HD3	1.92	0.69
1:K:265:LYS:CG	1:L:245:LEU:CD1	2.70	0.69
2:P:98:VAL:HG11	2:P:112:GLU:HB3	1.73	0.69
2:Q:98:VAL:HG11	2:Q:112:GLU:HB3	1.73	0.69
2:R:98:VAL:HG11	2:R:112:GLU:HB3	1.73	0.69
1:B:307:ASN:CG	2:N:162:LEU:HD12	2.17	0.69
1:D:395:LEU:O	1:D:399:MET:HG2	1.93	0.69
1:F:372:ILE:HG23	1:F:415:ILE:CD1	2.22	0.69
1:G:350:LEU:HD12	1:G:352:PHE:CE2	2.27	0.69
1:H:265:LYS:CG	1:I:245:LEU:CD1	2.70	0.69
1:H:299:GLN:NE2	1:I:227:ASN:OD1	2.25	0.69
1:I:354:ASP:O	1:I:381:LYS:HD3	1.92	0.69
1:J:459:ILE:HD13	1:J:509:LEU:CD1	2.21	0.69
1:B:395:LEU:O	1:B:399:MET:HG2	1.93	0.69
1:B:467:THR:HG21	1:B:476:SER:CB	2.22	0.69
1:C:299:GLN:NE2	1:D:227:ASN:OD1	2.25	0.69
1:C:350:LEU:HD12	1:C:352:PHE:CE2	2.27	0.69
1:D:396:ASP:OD1	1:E:467:THR:HG21	1.67	0.69
1:F:396:ASP:OD1	1:G:467:THR:HB	1.91	0.69
1:J:350:LEU:HD12	1:J:352:PHE:CE2	2.27	0.69
1:J:372:ILE:HG23	1:J:415:ILE:CD1	2.22	0.69
1:K:294:LEU:CA	1:L:273:LEU:CD2	2.64	0.69
1:L:354:ASP:O	1:L:381:LYS:HD3	1.92	0.69
1:A:362:GLN:O	1:A:366:LYS:HG2	1.93	0.69
1:B:265:LYS:CG	1:C:245:LEU:HD11	2.20	0.69
1:B:457:ARG:NH2	1:B:460:LEU:HD12	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:GLN:O	1:C:366:LYS:HG2	1.93	0.69
1:C:452:ASN:OD1	1:C:455:GLU:HB2	1.92	0.69
1:D:354:ASP:C	1:D:381:LYS:HD3	2.17	0.69
1:D:467:THR:HG21	1:D:476:SER:CB	2.22	0.69
1:E:354:ASP:C	1:E:381:LYS:HD3	2.17	0.69
1:E:396:ASP:OD1	1:F:467:THR:HB	1.91	0.69
1:F:265:LYS:CG	1:G:245:LEU:CD1	2.71	0.69
1:F:467:THR:HG21	1:F:476:SER:CB	2.22	0.69
1:G:299:GLN:NE2	1:H:227:ASN:OD1	2.25	0.69
1:G:395:LEU:O	1:G:399:MET:HG2	1.93	0.69
1:I:299:GLN:NE2	1:J:227:ASN:OD1	2.25	0.69
1:I:467:THR:HG21	1:I:476:SER:CB	2.22	0.69
1:K:354:ASP:O	1:K:381:LYS:HD3	1.92	0.69
1:L:395:LEU:O	1:L:399:MET:HG2	1.93	0.69
1:A:396:ASP:OD1	1:B:467:THR:HB	1.91	0.69
1:B:294:LEU:CA	1:C:273:LEU:CD2	2.64	0.69
1:B:396:ASP:OD1	1:C:467:THR:HB	1.91	0.69
1:D:307:ASN:CG	2:P:162:LEU:HD12	2.17	0.69
1:D:354:ASP:O	1:D:381:LYS:HD3	1.92	0.69
1:D:459:ILE:HD13	1:D:509:LEU:CD1	2.21	0.69
1:E:395:LEU:O	1:E:399:MET:HG2	1.93	0.69
1:E:459:ILE:HD13	1:E:509:LEU:CD1	2.21	0.69
1:F:293:ARG:NH1	1:G:272:THR:CG2	2.48	0.69
1:F:362:GLN:O	1:F:366:LYS:HG2	1.93	0.69
1:G:452:ASN:OD1	1:G:455:GLU:HB2	1.92	0.69
1:I:307:ASN:CG	2:U:162:LEU:HD12	2.17	0.69
1:I:362:GLN:O	1:I:366:LYS:HG2	1.93	0.69
1:I:395:LEU:O	1:I:399:MET:HG2	1.93	0.69
1:I:457:ARG:NH2	1:I:460:LEU:HD12	2.06	0.69
1:J:265:LYS:HG3	1:K:245:LEU:HD11	1.72	0.69
1:J:395:LEU:O	1:J:399:MET:HG2	1.93	0.69
1:K:307:ASN:CG	2:W:162:LEU:HD12	2.17	0.69
1:D:265:LYS:CG	1:E:245:LEU:CD1	2.70	0.69
1:E:362:GLN:O	1:E:366:LYS:HG2	1.93	0.69
1:H:362:GLN:O	1:H:366:LYS:HG2	1.93	0.69
1:I:343:PHE:CB	1:J:469:GLY:C	2.42	0.69
1:J:357:ILE:HA	1:J:360:ILE:HG12	1.75	0.69
1:J:459:ILE:HG13	1:J:460:LEU:N	2.07	0.69
1:K:350:LEU:HD12	1:K:352:PHE:CE2	2.27	0.69
1:A:395:LEU:O	1:A:399:MET:HG2	1.93	0.69
1:C:343:PHE:HD1	1:D:469:GLY:HA2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:299:GLN:NE2	1:E:227:ASN:OD1	2.25	0.69
1:G:347:LYS:CE	2:S:104:GLY:CA	2.67	0.69
1:K:347:LYS:CE	2:W:104:GLY:CA	2.67	0.69
1:K:372:ILE:HG23	1:K:415:ILE:CD1	2.22	0.69
1:K:395:LEU:O	1:K:399:MET:HG2	1.93	0.69
1:L:404:LEU:CD1	1:L:417:PRO:HA	2.08	0.69
1:A:372:ILE:HG23	1:A:415:ILE:CD1	2.22	0.68
1:F:395:LEU:O	1:F:399:MET:HG2	1.93	0.68
1:H:395:LEU:O	1:H:399:MET:HG2	1.93	0.68
1:I:357:ILE:HA	1:I:360:ILE:HG12	1.75	0.68
1:J:299:GLN:NE2	1:K:227:ASN:OD1	2.25	0.68
1:L:467:THR:HG21	1:L:476:SER:CB	2.22	0.68
1:H:457:ARG:NH2	1:H:460:LEU:HD12	2.06	0.68
1:J:362:GLN:O	1:J:366:LYS:HG2	1.93	0.68
1:L:357:ILE:HA	1:L:360:ILE:HG12	1.75	0.68
1:B:362:GLN:O	1:B:366:LYS:HG2	1.93	0.68
1:D:362:GLN:O	1:D:366:LYS:HG2	1.93	0.68
1:I:265:LYS:CG	1:J:245:LEU:HD11	2.20	0.68
1:J:457:ARG:NH2	1:J:460:LEU:HD12	2.06	0.68
2:W:136:ILE:HG23	2:W:141:ILE:HG23	1.76	0.68
1:C:467:THR:HG21	1:C:476:SER:CB	2.22	0.68
1:L:362:GLN:O	1:L:366:LYS:HG2	1.93	0.68
2:X:136:ILE:HG23	2:X:141:ILE:HG23	1.76	0.68
1:I:265:LYS:CG	1:J:245:LEU:CD1	2.71	0.68
1:I:372:ILE:HG23	1:I:415:ILE:CD1	2.22	0.68
2:U:136:ILE:HG23	2:U:141:ILE:HG23	1.76	0.68
1:A:347:LYS:HZ1	2:M:104:GLY:CA	1.98	0.68
1:B:459:ILE:HG13	1:B:460:LEU:N	2.07	0.68
1:G:357:ILE:HA	1:G:360:ILE:HG12	1.75	0.68
1:G:404:LEU:CD1	1:G:417:PRO:HA	2.08	0.68
1:A:354:ASP:C	1:A:381:LYS:HD3	2.17	0.68
1:B:516:VAL:HG23	1:B:517:MET:N	2.09	0.68
1:E:347:LYS:HZ2	2:Q:104:GLY:CA	1.97	0.68
1:F:459:ILE:HD13	1:F:509:LEU:CD1	2.21	0.68
1:G:447:GLN:CB	1:H:508:GLU:OE2	2.42	0.68
1:I:396:ASP:OD1	1:J:467:THR:HB	1.91	0.68
1:L:372:ILE:HG23	1:L:415:ILE:CD1	2.22	0.68
1:A:343:PHE:HD1	1:B:469:GLY:HA2	1.57	0.68
1:H:447:GLN:CB	1:I:508:GLU:OE2	2.42	0.68
1:H:459:ILE:HG13	1:H:460:LEU:N	2.07	0.68
1:J:396:ASP:OD1	1:K:467:THR:HG21	1.67	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:148:GLU:HG2	2:U:154:TRP:N	2.09	0.68
2:V:136:ILE:HG23	2:V:141:ILE:HG23	1.76	0.68
1:B:265:LYS:CG	1:C:245:LEU:CD1	2.70	0.68
1:B:372:ILE:HG12	1:B:413:VAL:CG2	2.24	0.68
1:E:459:ILE:HG13	1:E:460:LEU:N	2.07	0.68
1:F:459:ILE:HG13	1:F:460:LEU:N	2.07	0.68
1:H:424:LYS:HG2	1:H:428:PHE:CE1	2.29	0.68
1:K:362:GLN:O	1:K:366:LYS:HG2	1.93	0.68
1:K:516:VAL:HG23	1:K:517:MET:N	2.09	0.68
2:R:148:GLU:HG2	2:R:154:TRP:N	2.09	0.68
2:T:136:ILE:HG23	2:T:141:ILE:HG23	1.76	0.68
1:A:357:ILE:HA	1:A:360:ILE:HG12	1.75	0.68
1:B:444:GLN:HB3	1:B:499:ILE:HD11	1.76	0.68
1:B:447:GLN:CB	1:C:508:GLU:OE2	2.42	0.68
1:C:424:LYS:HG2	1:C:428:PHE:CE1	2.29	0.68
1:D:372:ILE:HG12	1:D:413:VAL:CG2	2.24	0.68
1:F:447:GLN:CB	1:G:508:GLU:OE2	2.42	0.68
1:K:457:ARG:NH2	1:K:460:LEU:HD12	2.06	0.68
1:L:372:ILE:HG12	1:L:413:VAL:CG2	2.24	0.68
1:C:444:GLN:HB3	1:C:499:ILE:HD11	1.76	0.67
1:F:294:LEU:HG	1:G:273:LEU:HD21	1.76	0.67
2:M:136:ILE:HG23	2:M:141:ILE:HG23	1.76	0.67
2:W:148:GLU:HG2	2:W:154:TRP:N	2.09	0.67
1:A:444:GLN:HB3	1:A:499:ILE:HD11	1.76	0.67
1:G:362:GLN:O	1:G:366:LYS:HG2	1.93	0.67
2:X:148:GLU:HG2	2:X:154:TRP:N	2.09	0.67
1:A:424:LYS:HG2	1:A:428:PHE:CE1	2.29	0.67
1:D:357:ILE:HA	1:D:360:ILE:HG12	1.75	0.67
1:D:459:ILE:HG13	1:D:460:LEU:N	2.07	0.67
1:G:459:ILE:HG13	1:G:460:LEU:N	2.07	0.67
1:I:459:ILE:HG13	1:I:460:LEU:N	2.07	0.67
1:J:424:LYS:HG2	1:J:428:PHE:CE1	2.29	0.67
1:K:487:THR:HG21	1:L:459:ILE:HG22	1.76	0.67
1:L:516:VAL:HG23	1:L:517:MET:N	2.09	0.67
2:O:97:TYR:CD2	2:O:161:LEU:HD11	2.30	0.67
2:Q:97:TYR:CD2	2:Q:161:LEU:HD11	2.30	0.67
2:S:97:TYR:CD2	2:S:161:LEU:HD11	2.30	0.67
2:T:148:GLU:HG2	2:T:154:TRP:N	2.09	0.67
1:A:447:GLN:CB	1:B:508:GLU:OE2	2.42	0.67
1:A:459:ILE:HG22	1:L:487:THR:HG21	1.76	0.67
1:C:357:ILE:HA	1:C:360:ILE:HG12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:516:VAL:HG23	1:D:517:MET:N	2.09	0.67
1:E:487:THR:HG21	1:F:459:ILE:HG22	1.76	0.67
1:H:475:ILE:HG23	1:H:476:SER:O	1.95	0.67
1:K:404:LEU:CD1	1:K:417:PRO:HA	2.08	0.67
1:L:424:LYS:HG2	1:L:428:PHE:CE1	2.29	0.67
1:C:447:GLN:CB	1:D:508:GLU:OE2	2.42	0.67
1:D:444:GLN:HB3	1:D:499:ILE:HD11	1.76	0.67
1:E:516:VAL:HG23	1:E:517:MET:N	2.09	0.67
1:F:487:THR:HG21	1:G:459:ILE:HG22	1.76	0.67
1:L:444:GLN:HB3	1:L:499:ILE:HD11	1.76	0.67
2:N:136:ILE:HG23	2:N:141:ILE:HG23	1.76	0.67
2:Q:148:GLU:HG2	2:Q:154:TRP:N	2.09	0.67
2:S:148:GLU:HG2	2:S:154:TRP:N	2.09	0.67
1:A:487:THR:HG21	1:B:459:ILE:HG22	1.76	0.67
1:C:516:VAL:HG23	1:C:517:MET:N	2.09	0.67
1:E:475:ILE:HG23	1:E:476:SER:O	1.95	0.67
1:F:357:ILE:HA	1:F:360:ILE:HG12	1.75	0.67
1:G:265:LYS:CG	1:H:245:LEU:CD1	2.70	0.67
1:J:294:LEU:CB	1:K:273:LEU:HD21	2.25	0.67
1:J:475:ILE:HG23	1:J:476:SER:O	1.95	0.67
2:P:97:TYR:CD2	2:P:161:LEU:HD11	2.30	0.67
1:A:294:LEU:CB	1:B:273:LEU:HD21	2.25	0.67
1:A:516:VAL:HG23	1:A:517:MET:N	2.09	0.67
1:B:475:ILE:HG23	1:B:476:SER:O	1.95	0.67
1:C:396:ASP:OD1	1:D:467:THR:HB	1.91	0.67
1:C:459:ILE:HG13	1:C:460:LEU:N	2.07	0.67
1:C:475:ILE:HG23	1:C:476:SER:O	1.95	0.67
1:D:487:THR:HG21	1:E:459:ILE:HG22	1.76	0.67
1:K:357:ILE:HA	1:K:360:ILE:HG12	1.75	0.67
2:M:97:TYR:CD2	2:M:161:LEU:HD11	2.30	0.67
2:P:148:GLU:HG2	2:P:154:TRP:N	2.09	0.67
2:P:162:LEU:HD23	2:P:162:LEU:H	1.60	0.67
1:A:245:LEU:CD1	1:L:265:LYS:CG	2.71	0.67
1:A:273:LEU:HD21	1:L:294:LEU:CB	2.25	0.67
1:E:357:ILE:HA	1:E:360:ILE:HG12	1.75	0.67
1:E:424:LYS:HG2	1:E:428:PHE:CE1	2.29	0.67
1:F:372:ILE:HG12	1:F:413:VAL:CG2	2.24	0.67
1:F:475:ILE:HG23	1:F:476:SER:O	1.95	0.67
1:H:357:ILE:HA	1:H:360:ILE:HG12	1.75	0.67
1:I:516:VAL:HG23	1:I:517:MET:N	2.09	0.67
2:O:148:GLU:HG2	2:O:154:TRP:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:136:ILE:HG23	2:S:141:ILE:HG23	1.76	0.67
2:X:97:TYR:CD2	2:X:161:LEU:HD11	2.30	0.67
1:C:294:LEU:CB	1:D:273:LEU:HD21	2.25	0.67
1:C:361:LEU:HD21	1:C:372:ILE:HG22	1.77	0.67
1:J:487:THR:HG21	1:K:459:ILE:HG22	1.76	0.67
1:K:424:LYS:HG2	1:K:428:PHE:CE1	2.29	0.67
1:L:475:ILE:HG23	1:L:476:SER:O	1.95	0.67
2:N:97:TYR:CD2	2:N:161:LEU:HD11	2.30	0.67
2:R:97:TYR:CD2	2:R:161:LEU:HD11	2.30	0.67
2:V:148:GLU:HG2	2:V:154:TRP:N	2.09	0.67
1:A:475:ILE:HG23	1:A:476:SER:O	1.95	0.67
1:D:361:LEU:HD21	1:D:372:ILE:HG22	1.77	0.67
1:G:487:THR:HG21	1:H:459:ILE:HG22	1.76	0.67
1:H:404:LEU:CD1	1:H:417:PRO:HA	2.08	0.67
1:A:294:LEU:HG	1:B:273:LEU:HD21	1.76	0.66
1:G:424:LYS:HG2	1:G:428:PHE:CE1	2.29	0.66
1:I:372:ILE:HG12	1:I:413:VAL:CG2	2.24	0.66
1:I:424:LYS:HG2	1:I:428:PHE:CE1	2.29	0.66
1:I:447:GLN:CB	1:J:508:GLU:OE2	2.42	0.66
2:N:148:GLU:HG2	2:N:154:TRP:N	2.09	0.66
2:V:97:TYR:CD2	2:V:161:LEU:HD11	2.30	0.66
2:W:97:TYR:CD2	2:W:161:LEU:HD11	2.30	0.66
1:B:357:ILE:HA	1:B:360:ILE:HG12	1.75	0.66
1:B:361:LEU:HD21	1:B:372:ILE:HG22	1.77	0.66
1:F:424:LYS:HG2	1:F:428:PHE:CE1	2.29	0.66
1:F:482:LEU:HD13	1:F:482:LEU:N	2.11	0.66
1:G:444:GLN:HB3	1:G:499:ILE:HD11	1.76	0.66
1:H:294:LEU:CB	1:I:273:LEU:HD21	2.25	0.66
1:I:404:LEU:CD1	1:I:417:PRO:HA	2.08	0.66
1:K:293:ARG:NH1	1:L:272:THR:CG2	2.47	0.66
1:K:294:LEU:CB	1:L:273:LEU:HD21	2.25	0.66
1:K:475:ILE:HG23	1:K:476:SER:O	1.95	0.66
2:O:136:ILE:HG23	2:O:141:ILE:HG23	1.76	0.66
2:S:162:LEU:HD23	2:S:162:LEU:H	1.60	0.66
2:U:97:TYR:CD2	2:U:161:LEU:HD11	2.30	0.66
1:A:508:GLU:OE2	1:L:447:GLN:CB	2.42	0.66
1:B:487:THR:HG21	1:C:459:ILE:HG22	1.76	0.66
1:E:343:PHE:HD1	1:F:469:GLY:HA2	1.57	0.66
1:E:444:GLN:HB3	1:E:499:ILE:HD11	1.76	0.66
1:H:343:PHE:CB	1:I:469:GLY:C	2.42	0.66
1:H:482:LEU:HD13	1:H:482:LEU:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:361:LEU:HD21	1:J:372:ILE:HG22	1.77	0.66
1:K:444:GLN:HB3	1:K:499:ILE:HD11	1.76	0.66
2:M:148:GLU:HG2	2:M:154:TRP:N	2.09	0.66
2:P:136:ILE:HG23	2:P:141:ILE:HG23	1.76	0.66
2:W:162:LEU:HD23	2:W:162:LEU:H	1.60	0.66
1:A:273:LEU:CD2	1:L:294:LEU:CA	2.65	0.66
1:B:343:PHE:HD1	1:C:469:GLY:HA2	1.57	0.66
1:E:361:LEU:HD21	1:E:372:ILE:HG22	1.77	0.66
1:F:444:GLN:HB3	1:F:499:ILE:HD11	1.76	0.66
1:G:516:VAL:HG23	1:G:517:MET:N	2.09	0.66
1:K:482:LEU:HD13	1:K:482:LEU:N	2.11	0.66
2:M:162:LEU:HD23	2:M:162:LEU:H	1.60	0.66
1:A:469:GLY:HA2	1:L:343:PHE:HD1	1.57	0.66
1:A:483:ILE:HG12	1:A:491:ILE:HB	1.78	0.66
1:B:294:LEU:CB	1:C:273:LEU:HD21	2.25	0.66
1:C:487:THR:HG21	1:D:459:ILE:HG22	1.76	0.66
1:D:447:GLN:CB	1:E:508:GLU:OE2	2.42	0.66
1:E:265:LYS:CG	1:F:245:LEU:CD1	2.70	0.66
1:G:425:ASP:HA	1:G:428:PHE:CD2	2.31	0.66
1:H:444:GLN:HB3	1:H:499:ILE:HD11	1.76	0.66
2:R:136:ILE:HG23	2:R:141:ILE:HG23	1.76	0.66
1:A:416:ALA:HB1	1:A:417:PRO:HD2	1.77	0.66
1:B:424:LYS:HG2	1:B:428:PHE:CE1	2.29	0.66
1:D:424:LYS:HG2	1:D:428:PHE:CE1	2.29	0.66
1:E:294:LEU:CB	1:F:273:LEU:HD21	2.25	0.66
1:E:450:TYR:CG	1:E:514:GLN:HA	2.31	0.66
1:F:450:TYR:CG	1:F:514:GLN:HA	2.31	0.66
1:H:396:ASP:OD1	1:I:467:THR:HB	1.91	0.66
1:I:361:LEU:HD21	1:I:372:ILE:HG22	1.77	0.66
1:I:482:LEU:HD13	1:I:482:LEU:N	2.11	0.66
1:K:447:GLN:CB	1:L:508:GLU:OE2	2.42	0.66
2:Q:136:ILE:HG23	2:Q:141:ILE:HG23	1.76	0.66
2:V:162:LEU:HD23	2:V:162:LEU:H	1.60	0.66
2:X:162:LEU:HD23	2:X:162:LEU:H	1.60	0.66
1:B:425:ASP:HA	1:B:428:PHE:CD2	2.31	0.66
1:D:425:ASP:HA	1:D:428:PHE:CD2	2.31	0.66
1:D:450:TYR:CG	1:D:514:GLN:HA	2.31	0.66
1:D:483:ILE:HG12	1:D:491:ILE:HB	1.78	0.66
1:D:490:LEU:HD23	1:D:506:ILE:HD11	1.77	0.66
1:I:487:THR:HG21	1:J:459:ILE:HG22	1.76	0.66
1:K:361:LEU:HD21	1:K:372:ILE:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:483:ILE:HG12	1:L:491:ILE:HB	1.78	0.66
2:T:97:TYR:CD2	2:T:161:LEU:HD11	2.30	0.66
1:B:416:ALA:HB1	1:B:417:PRO:HD2	1.77	0.66
1:G:450:TYR:CG	1:G:514:GLN:HA	2.31	0.66
1:G:475:ILE:HG23	1:G:476:SER:O	1.95	0.66
1:G:482:LEU:O	1:G:482:LEU:HD22	1.96	0.66
1:H:487:THR:HG21	1:I:459:ILE:HG22	1.76	0.66
1:I:475:ILE:HG23	1:I:476:SER:O	1.95	0.66
1:J:483:ILE:HG12	1:J:491:ILE:HB	1.78	0.66
2:R:162:LEU:HD23	2:R:162:LEU:H	1.60	0.66
1:C:450:TYR:CG	1:C:514:GLN:HA	2.31	0.66
1:C:490:LEU:HD23	1:C:506:ILE:HD11	1.77	0.66
1:D:482:LEU:HD13	1:D:482:LEU:N	2.11	0.66
1:F:361:LEU:HD21	1:F:372:ILE:HG22	1.77	0.66
1:G:446:PHE:HE2	1:G:503:ARG:HB2	1.61	0.66
1:I:446:PHE:HE2	1:I:503:ARG:HB2	1.61	0.66
1:I:482:LEU:O	1:I:482:LEU:HD22	1.96	0.66
1:I:483:ILE:HG12	1:I:491:ILE:HB	1.78	0.66
1:I:490:LEU:HD23	1:I:506:ILE:HD11	1.77	0.66
1:J:425:ASP:HA	1:J:428:PHE:CD2	2.31	0.66
1:J:446:PHE:HE2	1:J:503:ARG:HB2	1.61	0.66
1:J:447:GLN:CB	1:K:508:GLU:OE2	2.42	0.66
1:J:482:LEU:HD13	1:J:482:LEU:N	2.11	0.66
1:K:372:ILE:HG12	1:K:413:VAL:CG2	2.24	0.66
1:L:416:ALA:HB1	1:L:417:PRO:HD2	1.78	0.66
2:O:162:LEU:HD23	2:O:162:LEU:H	1.60	0.66
2:U:162:LEU:HD23	2:U:162:LEU:H	1.60	0.66
1:A:482:LEU:HD13	1:A:482:LEU:N	2.11	0.66
1:E:425:ASP:HA	1:E:428:PHE:CD2	2.31	0.66
1:F:294:LEU:CB	1:G:273:LEU:HD21	2.25	0.66
1:F:416:ALA:HB1	1:F:417:PRO:HD2	1.78	0.66
1:H:446:PHE:HE2	1:H:503:ARG:HB2	1.61	0.66
1:J:265:LYS:CG	1:K:245:LEU:CD1	2.70	0.66
1:J:372:ILE:HG12	1:J:413:VAL:CG2	2.24	0.66
1:J:490:LEU:HD23	1:J:506:ILE:HD11	1.77	0.66
1:K:446:PHE:HE2	1:K:503:ARG:HB2	1.61	0.66
2:N:162:LEU:H	2:N:162:LEU:HD23	1.60	0.66
1:A:425:ASP:HA	1:A:428:PHE:CD2	2.31	0.65
1:C:483:ILE:HG12	1:C:491:ILE:HB	1.78	0.65
1:D:475:ILE:HG23	1:D:476:SER:O	1.95	0.65
1:F:516:VAL:HG23	1:F:517:MET:N	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:416:ALA:HB1	1:H:417:PRO:HD2	1.77	0.65
1:H:450:TYR:CG	1:H:514:GLN:HA	2.31	0.65
1:I:294:LEU:CB	1:J:273:LEU:HD21	2.25	0.65
1:L:446:PHE:HE2	1:L:503:ARG:HB2	1.61	0.65
2:Q:162:LEU:HD23	2:Q:162:LEU:H	1.60	0.65
1:A:446:PHE:HE2	1:A:503:ARG:HB2	1.61	0.65
1:B:450:TYR:CG	1:B:514:GLN:HA	2.31	0.65
1:D:294:LEU:CB	1:E:273:LEU:HD21	2.25	0.65
1:E:482:LEU:HD13	1:E:482:LEU:N	2.11	0.65
1:F:425:ASP:HA	1:F:428:PHE:CD2	2.31	0.65
1:G:294:LEU:CB	1:H:273:LEU:HD21	2.25	0.65
1:G:482:LEU:HD13	1:G:482:LEU:N	2.11	0.65
1:H:490:LEU:HD23	1:H:506:ILE:HD11	1.77	0.65
1:I:425:ASP:HA	1:I:428:PHE:CD2	2.31	0.65
1:K:425:ASP:HA	1:K:428:PHE:CD2	2.31	0.65
1:A:361:LEU:HD21	1:A:372:ILE:HG22	1.77	0.65
1:C:294:LEU:HG	1:D:273:LEU:HD21	1.76	0.65
1:C:294:LEU:CA	1:D:273:LEU:CD2	2.65	0.65
1:C:416:ALA:HB1	1:C:417:PRO:HD2	1.78	0.65
1:C:482:LEU:HD13	1:C:482:LEU:N	2.11	0.65
1:H:482:LEU:O	1:H:482:LEU:HD22	1.96	0.65
1:J:516:VAL:HG23	1:J:517:MET:N	2.09	0.65
1:A:372:ILE:HG12	1:A:413:VAL:CG2	2.24	0.65
1:B:482:LEU:HD13	1:B:482:LEU:N	2.11	0.65
1:G:361:LEU:HD21	1:G:372:ILE:HG22	1.77	0.65
1:H:361:LEU:HD21	1:H:372:ILE:HG22	1.77	0.65
1:H:516:VAL:HG23	1:H:517:MET:N	2.09	0.65
1:I:444:GLN:HB3	1:I:499:ILE:HD11	1.76	0.65
1:I:450:TYR:CG	1:I:514:GLN:HA	2.31	0.65
1:J:482:LEU:O	1:J:482:LEU:HD22	1.96	0.65
1:K:490:LEU:HD23	1:K:506:ILE:HD11	1.77	0.65
2:S:111:ILE:HD13	2:S:120:VAL:HG22	1.79	0.65
2:X:111:ILE:HD13	2:X:120:VAL:HG22	1.79	0.65
1:A:490:LEU:HD23	1:A:506:ILE:HD11	1.77	0.65
1:C:372:ILE:HG12	1:C:413:VAL:CG2	2.24	0.65
1:C:425:ASP:HA	1:C:428:PHE:CD2	2.31	0.65
1:D:446:PHE:HE2	1:D:503:ARG:HB2	1.61	0.65
1:J:444:GLN:HB3	1:J:499:ILE:HD11	1.76	0.65
1:J:450:TYR:CG	1:J:514:GLN:HA	2.31	0.65
1:L:425:ASP:HA	1:L:428:PHE:CD2	2.31	0.65
2:R:111:ILE:HD13	2:R:120:VAL:HG22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:111:ILE:HD13	2:W:120:VAL:HG22	1.79	0.65
1:A:294:LEU:CG	1:B:273:LEU:HD21	2.27	0.65
1:A:406:MET:HB3	1:B:468:THR:HG23	1.78	0.65
1:A:450:TYR:CG	1:A:514:GLN:HA	2.31	0.65
1:C:446:PHE:HE2	1:C:503:ARG:HB2	1.61	0.65
1:E:343:PHE:CB	1:F:469:GLY:C	2.42	0.65
1:F:446:PHE:HE2	1:F:503:ARG:HB2	1.61	0.65
1:F:490:LEU:HD23	1:F:506:ILE:HD11	1.77	0.65
1:G:483:ILE:HG12	1:G:491:ILE:HB	1.78	0.65
1:H:372:ILE:HG12	1:H:413:VAL:CG2	2.24	0.65
1:H:425:ASP:HA	1:H:428:PHE:CD2	2.31	0.65
1:K:343:PHE:HD1	1:L:469:GLY:HA2	1.57	0.65
1:K:416:ALA:HB1	1:K:417:PRO:HD2	1.77	0.65
1:L:347:LYS:HZ1	2:X:104:GLY:CA	2.02	0.65
2:T:111:ILE:HD13	2:T:120:VAL:HG22	1.79	0.65
2:T:162:LEU:HD23	2:T:162:LEU:H	1.60	0.65
1:C:352:PHE:CE1	1:C:360:ILE:HG22	2.32	0.65
1:F:482:LEU:O	1:F:482:LEU:HD22	1.96	0.65
1:G:372:ILE:HG12	1:G:413:VAL:CG2	2.24	0.65
1:J:352:PHE:CE1	1:J:360:ILE:HG22	2.32	0.65
1:K:450:TYR:CG	1:K:514:GLN:HA	2.31	0.65
2:M:111:ILE:HD13	2:M:120:VAL:HG22	1.79	0.65
1:B:406:MET:HB3	1:C:468:THR:HG23	1.78	0.65
1:D:406:MET:HB3	1:E:468:THR:HG23	1.78	0.65
1:E:352:PHE:CE1	1:E:360:ILE:HG22	2.31	0.65
1:F:483:ILE:HG12	1:F:491:ILE:HB	1.78	0.65
1:G:352:PHE:CE1	1:G:360:ILE:HG22	2.32	0.65
1:H:294:LEU:CG	1:I:273:LEU:HD21	2.27	0.65
1:H:352:PHE:CE1	1:H:360:ILE:HG22	2.31	0.65
1:I:352:PHE:CE1	1:I:360:ILE:HG22	2.32	0.65
1:K:482:LEU:O	1:K:482:LEU:HD22	1.96	0.65
1:L:450:TYR:CG	1:L:514:GLN:HA	2.31	0.65
2:V:111:ILE:HD13	2:V:120:VAL:HG22	1.79	0.65
1:B:446:PHE:HE2	1:B:503:ARG:HB2	1.61	0.65
1:B:483:ILE:HG12	1:B:491:ILE:HB	1.78	0.65
1:D:482:LEU:O	1:D:482:LEU:HD22	1.96	0.65
1:E:447:GLN:CB	1:F:508:GLU:OE2	2.42	0.65
1:E:482:LEU:O	1:E:482:LEU:HD22	1.96	0.65
1:G:293:ARG:NH1	1:H:272:THR:CG2	2.48	0.65
1:H:293:ARG:NH1	1:I:272:THR:CG2	2.47	0.65
1:J:347:LYS:HZ2	2:V:104:GLY:CA	1.99	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:352:PHE:CE1	1:L:360:ILE:HG22	2.32	0.65
1:L:482:LEU:O	1:L:482:LEU:HD22	1.96	0.65
2:U:111:ILE:HD13	2:U:120:VAL:HG22	1.79	0.65
1:I:294:LEU:HG	1:J:273:LEU:HD21	1.76	0.65
1:J:293:ARG:NH1	1:K:272:THR:CG2	2.48	0.65
1:J:294:LEU:CG	1:K:273:LEU:HD21	2.27	0.65
1:J:404:LEU:CD1	1:J:417:PRO:HA	2.08	0.65
1:L:361:LEU:HD21	1:L:372:ILE:HG22	1.77	0.65
2:Q:111:ILE:HD13	2:Q:120:VAL:HG22	1.79	0.65
1:D:416:ALA:HB1	1:D:417:PRO:HD2	1.77	0.64
1:E:446:PHE:HE2	1:E:503:ARG:HB2	1.61	0.64
1:K:294:LEU:CG	1:L:273:LEU:HD21	2.27	0.64
2:N:111:ILE:HD13	2:N:120:VAL:HG22	1.79	0.64
1:B:352:PHE:CE1	1:B:360:ILE:HG22	2.31	0.64
1:B:490:LEU:HD23	1:B:506:ILE:HD11	1.77	0.64
1:C:265:LYS:CG	1:D:245:LEU:CD1	2.71	0.64
1:D:293:ARG:NH1	1:E:272:THR:CG2	2.48	0.64
1:E:372:ILE:HG12	1:E:413:VAL:CG2	2.24	0.64
1:L:482:LEU:HD13	1:L:482:LEU:N	2.11	0.64
1:A:293:ARG:NH1	1:B:272:THR:CG2	2.48	0.64
1:F:347:LYS:HZ2	2:R:104:GLY:CA	1.98	0.64
1:F:352:PHE:CE1	1:F:360:ILE:HG22	2.32	0.64
1:G:490:LEU:HD23	1:G:506:ILE:HD11	1.77	0.64
1:J:359:THR:O	1:J:363:ILE:HG12	1.98	0.64
1:K:406:MET:HB3	1:L:468:THR:HG23	1.78	0.64
1:L:490:LEU:HD23	1:L:506:ILE:HD11	1.77	0.64
2:P:111:ILE:HD13	2:P:120:VAL:HG22	1.79	0.64
1:B:482:LEU:O	1:B:482:LEU:HD22	1.96	0.64
1:C:406:MET:HB3	1:D:468:THR:HG23	1.79	0.64
1:E:396:ASP:OD1	1:F:467:THR:HG21	1.67	0.64
1:J:416:ALA:HB1	1:J:417:PRO:HD2	1.77	0.64
1:K:359:THR:O	1:K:363:ILE:HG12	1.98	0.64
2:O:111:ILE:HD13	2:O:120:VAL:HG22	1.79	0.64
1:E:483:ILE:HG12	1:E:491:ILE:HB	1.78	0.64
1:K:352:PHE:CE1	1:K:360:ILE:HG22	2.31	0.64
1:A:511:VAL:HB	1:A:512:PRO:HD3	1.80	0.64
1:C:294:LEU:CG	1:D:273:LEU:HD21	2.27	0.64
1:C:343:PHE:N	1:D:470:ASN:CB	2.61	0.64
1:G:359:THR:O	1:G:363:ILE:HG12	1.98	0.64
1:H:343:PHE:N	1:I:470:ASN:CB	2.61	0.64
1:H:406:MET:HB3	1:I:468:THR:HG23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:483:ILE:HG12	1:K:491:ILE:HB	1.78	0.64
1:A:343:PHE:N	1:B:470:ASN:CB	2.61	0.64
1:A:482:LEU:O	1:A:482:LEU:HD22	1.96	0.64
1:C:482:LEU:O	1:C:482:LEU:HD22	1.96	0.64
1:E:418:ARG:CD	1:E:481:VAL:HB	2.17	0.64
1:E:490:LEU:HD23	1:E:506:ILE:HD11	1.77	0.64
1:G:343:PHE:HD1	1:H:469:GLY:HA2	1.57	0.64
1:H:359:THR:O	1:H:363:ILE:HG12	1.98	0.64
1:J:343:PHE:N	1:K:470:ASN:CB	2.61	0.64
1:L:511:VAL:HB	1:L:512:PRO:HD3	1.80	0.64
1:C:359:THR:O	1:C:363:ILE:HG12	1.98	0.64
1:F:294:LEU:CG	1:G:273:LEU:HD21	2.27	0.64
1:F:378:VAL:HG12	1:F:417:PRO:HD3	1.80	0.64
1:K:294:LEU:HG	1:L:273:LEU:HD21	1.76	0.64
1:L:464:ASN:CG	1:L:475:ILE:HG21	2.23	0.64
1:C:293:ARG:NH1	1:D:272:THR:CG2	2.48	0.64
1:D:343:PHE:CB	1:E:469:GLY:C	2.42	0.64
1:D:352:PHE:CE1	1:D:360:ILE:HG22	2.32	0.64
1:D:378:VAL:HG12	1:D:417:PRO:HD3	1.80	0.64
1:G:378:VAL:HG12	1:G:417:PRO:HD3	1.80	0.64
1:H:464:ASN:CG	1:H:475:ILE:HG21	2.23	0.64
1:I:359:THR:O	1:I:363:ILE:HG12	1.98	0.64
1:B:511:VAL:HB	1:B:512:PRO:HD3	1.80	0.64
1:D:343:PHE:HD1	1:E:469:GLY:HA2	1.57	0.64
1:E:378:VAL:HG12	1:E:417:PRO:HD3	1.79	0.64
1:E:416:ALA:HB1	1:E:417:PRO:HD2	1.77	0.64
1:E:515:GLN:O	1:E:515:GLN:HG2	1.98	0.64
1:F:347:LYS:HZ1	2:R:104:GLY:CA	2.04	0.64
1:G:464:ASN:CG	1:G:475:ILE:HG21	2.23	0.64
1:I:416:ALA:HB1	1:I:417:PRO:HD2	1.78	0.64
1:I:464:ASN:CG	1:I:475:ILE:HG21	2.23	0.64
1:D:359:THR:O	1:D:363:ILE:HG12	1.98	0.63
1:G:416:ALA:HB1	1:G:417:PRO:HD2	1.77	0.63
1:G:511:VAL:HB	1:G:512:PRO:HD3	1.80	0.63
1:H:465:ALA:N	1:H:475:ILE:HD13	2.14	0.63
2:T:97:TYR:HB2	2:T:161:LEU:HD21	1.81	0.63
1:A:359:THR:O	1:A:363:ILE:HG12	1.98	0.63
1:A:465:ALA:N	1:A:475:ILE:HD13	2.13	0.63
1:A:515:GLN:HG2	1:A:515:GLN:O	1.98	0.63
1:B:355:VAL:O	1:B:381:LYS:HG3	1.98	0.63
1:C:378:VAL:HG12	1:C:417:PRO:HD3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:PHE:N	1:F:470:ASN:CB	2.61	0.63
1:F:406:MET:HB3	1:G:468:THR:HG23	1.79	0.63
1:G:515:GLN:HG2	1:G:515:GLN:O	1.98	0.63
1:I:343:PHE:HD1	1:J:469:GLY:HA2	1.57	0.63
1:J:396:ASP:OD1	1:K:467:THR:HB	1.91	0.63
1:J:465:ALA:N	1:J:475:ILE:HD13	2.13	0.63
1:K:343:PHE:N	1:L:470:ASN:CB	2.61	0.63
1:A:464:ASN:CG	1:A:475:ILE:HG21	2.23	0.63
1:A:468:THR:HG23	1:L:406:MET:HB3	1.79	0.63
1:C:347:LYS:HZ2	2:O:104:GLY:CA	2.00	0.63
1:C:355:VAL:O	1:C:381:LYS:HG3	1.98	0.63
1:C:464:ASN:CG	1:C:475:ILE:HG21	2.23	0.63
1:F:343:PHE:N	1:G:470:ASN:CB	2.61	0.63
1:F:464:ASN:CG	1:F:475:ILE:HG21	2.23	0.63
1:H:361:LEU:CD2	1:H:372:ILE:HB	2.29	0.63
1:H:483:ILE:HG12	1:H:491:ILE:HB	1.78	0.63
1:H:511:VAL:HB	1:H:512:PRO:HD3	1.80	0.63
1:J:361:LEU:CD2	1:J:372:ILE:HB	2.29	0.63
1:K:349:SER:HB2	2:W:102:LYS:H	1.64	0.63
1:K:465:ALA:N	1:K:475:ILE:HD13	2.14	0.63
1:K:511:VAL:HB	1:K:512:PRO:HD3	1.80	0.63
1:A:352:PHE:CE1	1:A:360:ILE:HG22	2.32	0.63
1:B:359:THR:O	1:B:363:ILE:HG12	1.98	0.63
1:C:349:SER:HB2	2:O:102:LYS:H	1.64	0.63
1:E:404:LEU:HD22	1:E:404:LEU:N	2.14	0.63
1:F:511:VAL:HB	1:F:512:PRO:HD3	1.80	0.63
1:G:349:SER:HB2	2:S:102:LYS:H	1.64	0.63
1:G:465:ALA:N	1:G:475:ILE:HD13	2.13	0.63
1:J:515:GLN:O	1:J:515:GLN:HG2	1.98	0.63
1:K:228:ILE:HD11	1:K:275:ARG:HG3	1.81	0.63
2:P:97:TYR:HB2	2:P:161:LEU:HD21	1.81	0.63
2:R:126:LEU:HD13	2:R:126:LEU:N	2.13	0.63
2:S:126:LEU:HD13	2:S:126:LEU:N	2.13	0.63
1:A:361:LEU:CD2	1:A:372:ILE:HB	2.29	0.63
1:A:470:ASN:CB	1:L:343:PHE:N	2.61	0.63
1:C:364:LEU:CD1	1:C:391:TRP:HB2	2.29	0.63
1:C:515:GLN:O	1:C:515:GLN:HG2	1.99	0.63
1:E:349:SER:HB2	2:Q:102:LYS:H	1.64	0.63
1:E:355:VAL:O	1:E:381:LYS:HG3	1.98	0.63
1:F:359:THR:O	1:F:363:ILE:HG12	1.98	0.63
1:F:404:LEU:HD22	1:F:404:LEU:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:ALA:N	1:F:475:ILE:HD13	2.14	0.63
1:H:349:SER:HB2	2:T:102:LYS:H	1.64	0.63
1:J:228:ILE:HD11	1:J:275:ARG:HG3	1.81	0.63
1:J:464:ASN:CG	1:J:475:ILE:HG21	2.23	0.63
1:L:349:SER:HB2	2:X:102:LYS:H	1.64	0.63
1:L:378:VAL:HG12	1:L:417:PRO:HD3	1.80	0.63
2:S:97:TYR:HB2	2:S:161:LEU:HD21	1.81	0.63
2:X:126:LEU:HD13	2:X:126:LEU:N	2.13	0.63
1:A:378:VAL:HG12	1:A:417:PRO:HD3	1.80	0.63
1:B:294:LEU:HD11	1:C:227:ASN:OD1	1.99	0.63
1:D:404:LEU:HD22	1:D:404:LEU:N	2.14	0.63
1:H:378:VAL:HG12	1:H:417:PRO:HD3	1.79	0.63
1:I:228:ILE:HD11	1:I:275:ARG:HG3	1.81	0.63
1:J:343:PHE:HD1	1:K:469:GLY:HA2	1.57	0.63
1:J:378:VAL:HG12	1:J:417:PRO:HD3	1.80	0.63
1:L:515:GLN:HG2	1:L:515:GLN:O	1.99	0.63
2:N:126:LEU:HD13	2:N:126:LEU:N	2.13	0.63
2:U:97:TYR:HB2	2:U:161:LEU:HD21	1.81	0.63
1:A:294:LEU:HD11	1:B:227:ASN:OD1	1.99	0.63
1:C:347:LYS:HZ1	2:O:104:GLY:CA	2.02	0.63
1:E:293:ARG:NH1	1:F:272:THR:CG2	2.47	0.63
1:E:294:LEU:HD11	1:F:227:ASN:OD1	1.99	0.63
1:E:361:LEU:CD2	1:E:372:ILE:HB	2.29	0.63
1:F:361:LEU:CD2	1:F:372:ILE:HB	2.29	0.63
1:G:343:PHE:N	1:H:470:ASN:CB	2.61	0.63
1:H:515:GLN:O	1:H:515:GLN:HG2	1.98	0.63
1:I:343:PHE:N	1:J:470:ASN:CB	2.61	0.63
1:I:511:VAL:HB	1:I:512:PRO:HD3	1.80	0.63
2:Q:126:LEU:HD13	2:Q:126:LEU:N	2.13	0.63
2:T:126:LEU:HD13	2:T:126:LEU:N	2.13	0.63
1:B:343:PHE:N	1:C:470:ASN:CB	2.61	0.63
1:B:361:LEU:CD2	1:B:372:ILE:HB	2.29	0.63
1:B:378:VAL:HG12	1:B:417:PRO:HD3	1.79	0.63
1:B:464:ASN:CG	1:B:475:ILE:HG21	2.23	0.63
1:B:465:ALA:N	1:B:475:ILE:HD13	2.14	0.63
1:C:294:LEU:HD11	1:D:227:ASN:OD1	1.99	0.63
1:C:460:LEU:HA	1:C:463:ASP:OD1	1.99	0.63
1:C:496:ARG:O	1:C:499:ILE:HG22	1.99	0.63
1:C:511:VAL:HB	1:C:512:PRO:HD3	1.80	0.63
1:D:294:LEU:HD11	1:E:227:ASN:OD1	1.99	0.63
1:D:343:PHE:N	1:E:470:ASN:CB	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:364:LEU:CD1	1:D:391:TRP:HB2	2.29	0.63
1:D:496:ARG:O	1:D:499:ILE:HG22	1.99	0.63
1:E:294:LEU:CG	1:F:273:LEU:HD21	2.27	0.63
1:E:359:THR:O	1:E:363:ILE:HG12	1.98	0.63
1:E:465:ALA:N	1:E:475:ILE:HD13	2.14	0.63
1:G:404:LEU:HD22	1:G:404:LEU:N	2.14	0.63
1:I:355:VAL:O	1:I:381:LYS:HG3	1.98	0.63
1:I:498:VAL:O	1:I:502:PHE:HD1	1.82	0.63
1:J:257:HIS:CD2	1:K:232:LYS:O	2.52	0.63
1:J:343:PHE:CD2	1:K:472:ASN:OD1	2.22	0.63
1:L:228:ILE:HD11	1:L:275:ARG:HG3	1.81	0.63
1:L:361:LEU:CD2	1:L:372:ILE:HB	2.29	0.63
2:O:97:TYR:HB2	2:O:161:LEU:HD21	1.81	0.63
2:Q:97:TYR:HB2	2:Q:161:LEU:HD21	1.81	0.63
1:A:349:SER:HB2	2:M:102:LYS:H	1.64	0.63
1:E:464:ASN:CG	1:E:475:ILE:HG21	2.23	0.63
1:H:391:TRP:O	1:H:395:LEU:HG	1.99	0.63
1:H:496:ARG:O	1:H:499:ILE:HG22	1.99	0.63
1:I:257:HIS:CD2	1:J:232:LYS:O	2.52	0.63
1:I:465:ALA:N	1:I:475:ILE:HD13	2.14	0.63
1:J:498:VAL:O	1:J:502:PHE:HD1	1.82	0.63
1:K:515:GLN:O	1:K:515:GLN:HG2	1.98	0.63
1:L:359:THR:O	1:L:363:ILE:HG12	1.98	0.63
1:L:364:LEU:CD1	1:L:391:TRP:HB2	2.29	0.63
1:L:465:ALA:N	1:L:475:ILE:HD13	2.14	0.63
2:M:126:LEU:HD13	2:M:126:LEU:N	2.13	0.63
2:O:126:LEU:HD13	2:O:126:LEU:N	2.13	0.63
1:A:227:ASN:OD1	1:L:294:LEU:HD11	1.99	0.62
1:A:496:ARG:O	1:A:499:ILE:HG22	1.99	0.62
1:B:498:VAL:O	1:B:502:PHE:HD1	1.82	0.62
1:C:404:LEU:HD22	1:C:404:LEU:N	2.14	0.62
1:C:465:ALA:N	1:C:475:ILE:HD13	2.14	0.62
1:D:361:LEU:CD2	1:D:372:ILE:HB	2.29	0.62
1:D:465:ALA:N	1:D:475:ILE:HD13	2.13	0.62
1:F:294:LEU:HD11	1:G:227:ASN:OD1	1.99	0.62
1:F:418:ARG:CD	1:F:481:VAL:HB	2.17	0.62
1:H:228:ILE:HD11	1:H:275:ARG:HG3	1.81	0.62
1:I:378:VAL:HG12	1:I:417:PRO:HD3	1.80	0.62
1:J:355:VAL:O	1:J:381:LYS:HG3	1.98	0.62
1:L:355:VAL:O	1:L:381:LYS:HG3	1.98	0.62
1:A:498:VAL:O	1:A:502:PHE:HD1	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:ILE:HD11	1:B:275:ARG:HG3	1.81	0.62
1:D:408:GLN:CG	1:D:413:VAL:HG12	2.30	0.62
1:D:464:ASN:CG	1:D:475:ILE:HG21	2.23	0.62
1:E:511:VAL:HB	1:E:512:PRO:HD3	1.80	0.62
1:F:496:ARG:O	1:F:499:ILE:HG22	1.99	0.62
1:G:294:LEU:HG	1:H:273:LEU:HD21	1.76	0.62
1:H:355:VAL:O	1:H:381:LYS:HG3	1.98	0.62
1:I:406:MET:HB3	1:J:468:THR:HG23	1.79	0.62
1:J:408:GLN:CG	1:J:413:VAL:HG12	2.30	0.62
1:K:257:HIS:CD2	1:L:232:LYS:O	2.52	0.62
1:K:464:ASN:CG	1:K:475:ILE:HG21	2.23	0.62
2:V:126:LEU:HD13	2:V:126:LEU:N	2.13	0.62
1:A:228:ILE:HD11	1:A:275:ARG:HG3	1.81	0.62
1:A:408:GLN:CG	1:A:413:VAL:HG12	2.30	0.62
1:B:460:LEU:HA	1:B:463:ASP:OD1	1.99	0.62
1:D:460:LEU:HA	1:D:463:ASP:OD1	1.99	0.62
1:F:349:SER:HB2	2:R:102:LYS:H	1.64	0.62
1:H:257:HIS:CD2	1:I:232:LYS:O	2.52	0.62
1:H:404:LEU:HD22	1:H:404:LEU:N	2.14	0.62
2:U:126:LEU:HD13	2:U:126:LEU:N	2.13	0.62
1:E:496:ARG:O	1:E:499:ILE:HG22	1.99	0.62
1:F:355:VAL:O	1:F:381:LYS:HG3	1.98	0.62
1:G:460:LEU:HA	1:G:463:ASP:OD1	1.99	0.62
1:I:496:ARG:O	1:I:499:ILE:HG22	1.99	0.62
1:J:406:MET:HB3	1:K:468:THR:HG23	1.78	0.62
1:A:391:TRP:O	1:A:395:LEU:HG	1.99	0.62
1:B:515:GLN:O	1:B:515:GLN:HG2	1.98	0.62
1:C:343:PHE:CB	1:D:469:GLY:C	2.42	0.62
1:C:391:TRP:O	1:C:395:LEU:HG	1.99	0.62
1:E:257:HIS:CD2	1:F:232:LYS:O	2.52	0.62
1:E:406:MET:HB3	1:F:468:THR:HG23	1.78	0.62
1:F:257:HIS:CD2	1:G:232:LYS:O	2.52	0.62
1:G:408:GLN:CG	1:G:413:VAL:HG12	2.30	0.62
1:H:460:LEU:HA	1:H:463:ASP:OD1	1.99	0.62
1:I:408:GLN:CG	1:I:413:VAL:HG12	2.30	0.62
1:J:391:TRP:O	1:J:395:LEU:HG	1.99	0.62
1:K:294:LEU:HD11	1:L:227:ASN:OD1	1.99	0.62
1:K:496:ARG:O	1:K:499:ILE:HG22	1.99	0.62
1:A:483:ILE:CD1	1:A:491:ILE:HD12	2.30	0.62
1:B:348:ILE:HG22	1:B:349:SER:N	2.15	0.62
1:B:404:LEU:HD22	1:B:404:LEU:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:391:TRP:O	1:F:395:LEU:HG	1.99	0.62
1:F:515:GLN:O	1:F:515:GLN:HG2	1.99	0.62
1:G:294:LEU:HD11	1:H:227:ASN:OD1	1.99	0.62
1:G:391:TRP:O	1:G:395:LEU:HG	1.99	0.62
1:J:511:VAL:HB	1:J:512:PRO:HD3	1.80	0.62
1:K:348:ILE:HG22	1:K:349:SER:N	2.15	0.62
1:K:355:VAL:O	1:K:381:LYS:HG3	1.98	0.62
1:K:483:ILE:CD1	1:K:491:ILE:HD12	2.30	0.62
2:N:97:TYR:HB2	2:N:161:LEU:HD21	1.81	0.62
1:A:364:LEU:CD1	1:A:391:TRP:HB2	2.29	0.62
1:B:257:HIS:CD2	1:C:232:LYS:O	2.52	0.62
1:B:483:ILE:CD1	1:B:491:ILE:HD12	2.30	0.62
1:C:361:LEU:CD2	1:C:372:ILE:HB	2.29	0.62
1:C:498:VAL:O	1:C:502:PHE:HD1	1.82	0.62
1:D:355:VAL:O	1:D:381:LYS:HG3	1.98	0.62
1:F:498:VAL:O	1:F:502:PHE:HD1	1.82	0.62
1:G:228:ILE:HD11	1:G:275:ARG:HG3	1.81	0.62
1:G:361:LEU:CD2	1:G:372:ILE:HB	2.29	0.62
1:G:496:ARG:O	1:G:499:ILE:HG22	1.99	0.62
1:H:294:LEU:HD11	1:I:227:ASN:OD1	1.99	0.62
1:H:364:LEU:CD1	1:H:391:TRP:HB2	2.29	0.62
1:I:361:LEU:CD2	1:I:372:ILE:HB	2.29	0.62
1:I:460:LEU:HA	1:I:463:ASP:OD1	1.99	0.62
1:J:349:SER:HB2	2:V:102:LYS:H	1.64	0.62
1:J:460:LEU:HA	1:J:463:ASP:OD1	1.99	0.62
1:K:460:LEU:HA	1:K:463:ASP:OD1	1.99	0.62
1:L:483:ILE:CD1	1:L:491:ILE:HD12	2.30	0.62
1:L:496:ARG:O	1:L:499:ILE:HG22	1.99	0.62
2:P:126:LEU:HD13	2:P:126:LEU:N	2.13	0.62
2:X:128:GLN:HG3	2:X:129:ASN:H	1.65	0.62
1:F:460:LEU:HA	1:F:463:ASP:OD1	1.99	0.62
1:G:406:MET:HB3	1:H:468:THR:HG23	1.78	0.62
1:I:515:GLN:HG2	1:I:515:GLN:O	1.99	0.62
1:J:348:ILE:HG22	1:J:349:SER:N	2.15	0.62
1:J:483:ILE:CD1	1:J:491:ILE:HD12	2.30	0.62
1:L:408:GLN:CG	1:L:413:VAL:HG12	2.30	0.62
1:L:498:VAL:O	1:L:502:PHE:HD1	1.82	0.62
2:S:128:GLN:HG3	2:S:129:ASN:H	1.65	0.62
1:A:232:LYS:O	1:L:257:HIS:CD2	2.52	0.62
1:A:355:VAL:O	1:A:381:LYS:HG3	1.98	0.62
1:B:496:ARG:O	1:B:499:ILE:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:228:ILE:HD11	1:C:275:ARG:HG3	1.81	0.62
1:C:273:LEU:O	1:C:291:LEU:HD23	2.00	0.62
1:C:408:GLN:CG	1:C:413:VAL:HG12	2.30	0.62
1:G:257:HIS:CD2	1:H:232:LYS:O	2.52	0.62
1:G:355:VAL:O	1:G:381:LYS:HG3	1.98	0.62
1:H:361:LEU:HD23	1:H:361:LEU:C	2.25	0.62
1:I:391:TRP:O	1:I:395:LEU:HG	1.99	0.62
1:K:391:TRP:O	1:K:395:LEU:HG	1.99	0.62
1:K:498:VAL:O	1:K:502:PHE:HD1	1.82	0.62
1:L:348:ILE:HG22	1:L:349:SER:N	2.15	0.62
2:P:128:GLN:HG3	2:P:129:ASN:H	1.65	0.62
2:V:97:TYR:HB2	2:V:161:LEU:HD21	1.81	0.62
1:A:512:PRO:HA	1:A:515:GLN:NE2	2.15	0.62
1:B:293:ARG:NH1	1:C:272:THR:CG2	2.47	0.62
1:B:408:GLN:CG	1:B:413:VAL:HG12	2.30	0.62
1:B:424:LYS:HD3	1:B:428:PHE:CE1	2.35	0.62
1:C:257:HIS:CD2	1:D:232:LYS:O	2.52	0.62
1:D:391:TRP:O	1:D:395:LEU:HG	1.99	0.62
1:D:515:GLN:HG2	1:D:515:GLN:O	1.98	0.62
1:E:408:GLN:CG	1:E:413:VAL:HG12	2.30	0.62
1:E:498:VAL:O	1:E:502:PHE:HD1	1.82	0.62
1:F:408:GLN:CG	1:F:413:VAL:HG12	2.30	0.62
1:H:273:LEU:O	1:H:291:LEU:HD23	2.00	0.62
1:H:498:VAL:O	1:H:502:PHE:HD1	1.82	0.62
1:K:378:VAL:HG12	1:K:417:PRO:HD3	1.79	0.62
1:K:512:PRO:HA	1:K:515:GLN:NE2	2.15	0.62
1:L:460:LEU:HA	1:L:463:ASP:OD1	1.99	0.62
2:R:97:TYR:HB2	2:R:161:LEU:HD21	1.81	0.62
2:T:128:GLN:HG3	2:T:129:ASN:H	1.65	0.62
1:A:348:ILE:HG22	1:A:349:SER:N	2.15	0.61
1:A:404:LEU:HD22	1:A:404:LEU:N	2.14	0.61
1:A:424:LYS:HD3	1:A:428:PHE:CE1	2.35	0.61
1:C:483:ILE:CD1	1:C:491:ILE:HD12	2.30	0.61
1:D:257:HIS:CD2	1:E:232:LYS:O	2.52	0.61
1:D:348:ILE:HG22	1:D:349:SER:N	2.15	0.61
1:D:511:VAL:HB	1:D:512:PRO:HD3	1.80	0.61
1:E:228:ILE:HD11	1:E:275:ARG:HG3	1.81	0.61
1:E:348:ILE:HG22	1:E:349:SER:N	2.15	0.61
1:F:228:ILE:HD11	1:F:275:ARG:HG3	1.81	0.61
1:G:228:ILE:HD13	1:G:277:LEU:HD21	1.82	0.61
1:I:349:SER:HB2	2:U:102:LYS:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:361:LEU:C	1:I:361:LEU:HD23	2.25	0.61
1:J:294:LEU:HD11	1:K:227:ASN:OD1	1.99	0.61
1:K:361:LEU:CD2	1:K:372:ILE:HB	2.29	0.61
1:L:273:LEU:O	1:L:291:LEU:HD23	2.00	0.61
2:M:128:GLN:HG3	2:M:129:ASN:H	1.65	0.61
2:O:128:GLN:HG3	2:O:129:ASN:H	1.65	0.61
1:C:348:ILE:HG22	1:C:349:SER:N	2.15	0.61
1:D:228:ILE:HD11	1:D:275:ARG:HG3	1.81	0.61
1:G:361:LEU:HD23	1:G:361:LEU:C	2.25	0.61
1:G:418:ARG:CD	1:G:481:VAL:HB	2.17	0.61
1:H:294:LEU:HG	1:I:273:LEU:HD21	1.76	0.61
1:I:273:LEU:O	1:I:291:LEU:HD23	2.00	0.61
1:I:348:ILE:HG22	1:I:349:SER:N	2.15	0.61
1:J:259:HIS:CD2	1:J:301:ILE:HG23	2.36	0.61
1:J:364:LEU:CD1	1:J:391:TRP:HB2	2.29	0.61
1:K:361:LEU:HD23	1:K:361:LEU:C	2.25	0.61
2:M:97:TYR:HB2	2:M:161:LEU:HD21	1.81	0.61
1:A:460:LEU:HA	1:A:463:ASP:OD1	1.99	0.61
1:B:259:HIS:CD2	1:B:301:ILE:HG23	2.36	0.61
1:C:424:LYS:HD3	1:C:428:PHE:CE1	2.35	0.61
1:D:259:HIS:CD2	1:D:301:ILE:HG23	2.36	0.61
1:H:259:HIS:CD2	1:H:301:ILE:HG23	2.36	0.61
1:I:483:ILE:CD1	1:I:491:ILE:HD12	2.30	0.61
1:L:404:LEU:HD22	1:L:404:LEU:N	2.14	0.61
1:L:424:LYS:HD3	1:L:428:PHE:CE1	2.35	0.61
1:A:257:HIS:CD2	1:B:232:LYS:O	2.52	0.61
1:D:349:SER:HB2	2:P:102:LYS:H	1.64	0.61
1:E:391:TRP:O	1:E:395:LEU:HG	1.99	0.61
1:E:460:LEU:HA	1:E:463:ASP:OD1	1.99	0.61
1:F:228:ILE:HD13	1:F:277:LEU:HD21	1.82	0.61
1:F:348:ILE:HG22	1:F:349:SER:N	2.15	0.61
1:G:353:GLN:CG	2:S:98:VAL:O	2.49	0.61
1:H:389:VAL:HG23	1:I:376:ASP:OD2	2.01	0.61
1:J:404:LEU:HD22	1:J:404:LEU:N	2.14	0.61
1:J:496:ARG:O	1:J:499:ILE:HG22	1.99	0.61
1:K:273:LEU:O	1:K:291:LEU:HD23	2.00	0.61
1:K:404:LEU:HD22	1:K:404:LEU:N	2.14	0.61
1:K:408:GLN:CG	1:K:413:VAL:HG12	2.30	0.61
1:L:391:TRP:O	1:L:395:LEU:HG	1.99	0.61
2:R:111:ILE:HD12	2:R:111:ILE:N	2.16	0.61
2:W:126:LEU:HD13	2:W:126:LEU:N	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:GLN:CG	2:N:98:VAL:O	2.49	0.61
1:D:483:ILE:CD1	1:D:491:ILE:HD12	2.30	0.61
1:E:273:LEU:O	1:E:291:LEU:HD23	2.00	0.61
1:E:347:LYS:HZ1	2:Q:104:GLY:CA	2.05	0.61
1:F:364:LEU:CD1	1:F:391:TRP:HB2	2.29	0.61
1:G:348:ILE:HG22	1:G:349:SER:N	2.15	0.61
1:H:348:ILE:HG22	1:H:349:SER:N	2.15	0.61
1:H:408:GLN:CG	1:H:413:VAL:HG12	2.30	0.61
1:J:361:LEU:HD23	1:J:361:LEU:C	2.25	0.61
1:K:226:THR:HB	1:K:269:LEU:HD12	1.83	0.61
1:K:361:LEU:HD21	1:K:372:ILE:C	2.26	0.61
1:K:424:LYS:HD3	1:K:428:PHE:CE1	2.35	0.61
2:N:111:ILE:N	2:N:111:ILE:HD12	2.16	0.61
2:S:111:ILE:HD12	2:S:111:ILE:N	2.16	0.61
2:U:111:ILE:HD12	2:U:111:ILE:N	2.16	0.61
2:W:128:GLN:HG3	2:W:129:ASN:H	1.65	0.61
2:X:111:ILE:HD12	2:X:111:ILE:N	2.16	0.61
1:B:361:LEU:HD21	1:B:372:ILE:C	2.26	0.61
1:B:391:TRP:O	1:B:395:LEU:HG	1.99	0.61
1:D:228:ILE:HD13	1:D:277:LEU:HD21	1.82	0.61
1:D:353:GLN:CG	2:P:98:VAL:O	2.49	0.61
1:E:353:GLN:CG	2:Q:98:VAL:O	2.49	0.61
1:E:361:LEU:HD23	1:E:361:LEU:C	2.25	0.61
1:E:475:ILE:HG23	1:E:476:SER:N	2.16	0.61
1:F:273:LEU:O	1:F:291:LEU:HD23	2.00	0.61
1:G:498:VAL:O	1:G:502:PHE:HD1	1.82	0.61
1:G:512:PRO:HA	1:G:515:GLN:NE2	2.15	0.61
1:H:475:ILE:HG23	1:H:476:SER:N	2.16	0.61
1:I:512:PRO:HA	1:I:515:GLN:NE2	2.15	0.61
1:J:389:VAL:HG23	1:K:376:ASP:OD2	2.01	0.61
1:L:512:PRO:HA	1:L:515:GLN:NE2	2.15	0.61
2:Q:111:ILE:N	2:Q:111:ILE:HD12	2.16	0.61
2:R:128:GLN:HG3	2:R:129:ASN:H	1.65	0.61
2:T:111:ILE:N	2:T:111:ILE:HD12	2.16	0.61
2:X:97:TYR:HB2	2:X:161:LEU:HD21	1.81	0.61
1:A:226:THR:HB	1:A:269:LEU:HD12	1.83	0.61
1:B:343:PHE:CB	1:C:469:GLY:C	2.42	0.61
1:B:349:SER:HB2	2:N:102:LYS:H	1.64	0.61
1:C:228:ILE:HD13	1:C:277:LEU:HD21	1.82	0.61
1:D:424:LYS:HD3	1:D:428:PHE:CE1	2.35	0.61
1:E:389:VAL:HG23	1:F:376:ASP:OD2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:512:PRO:HA	1:F:515:GLN:NE2	2.15	0.61
1:I:294:LEU:HD11	1:J:227:ASN:OD1	1.99	0.61
1:I:404:LEU:HD22	1:I:404:LEU:N	2.14	0.61
1:J:226:THR:HB	1:J:269:LEU:HD12	1.83	0.61
2:O:111:ILE:HD12	2:O:111:ILE:N	2.16	0.61
2:V:111:ILE:N	2:V:111:ILE:HD12	2.16	0.61
1:A:265:LYS:HG3	1:B:245:LEU:CD1	2.31	0.61
1:C:265:LYS:HG3	1:D:245:LEU:CD1	2.31	0.61
1:G:273:LEU:O	1:G:291:LEU:HD23	2.00	0.61
1:G:389:VAL:HG23	1:H:376:ASP:OD2	2.01	0.61
1:H:228:ILE:HD13	1:H:277:LEU:HD21	1.82	0.61
1:H:399:MET:HB3	1:H:404:LEU:O	2.01	0.61
1:H:483:ILE:CD1	1:H:491:ILE:HD12	2.30	0.61
1:H:512:PRO:HA	1:H:515:GLN:NE2	2.15	0.61
1:J:294:LEU:HG	1:K:273:LEU:HD21	1.76	0.61
1:J:512:PRO:HA	1:J:515:GLN:NE2	2.15	0.61
1:L:226:THR:HB	1:L:269:LEU:HD12	1.83	0.61
2:W:111:ILE:HD12	2:W:111:ILE:N	2.16	0.61
1:A:273:LEU:O	1:A:291:LEU:HD23	2.00	0.61
1:B:226:THR:HB	1:B:269:LEU:HD12	1.83	0.61
1:B:294:LEU:HG	1:C:273:LEU:HD21	1.76	0.61
1:D:273:LEU:O	1:D:291:LEU:HD23	2.00	0.61
1:F:343:PHE:HD1	1:G:469:GLY:HA2	1.57	0.61
1:F:361:LEU:HD23	1:F:361:LEU:C	2.25	0.61
1:F:501:LYS:O	1:F:505:LEU:HD23	2.01	0.61
1:G:259:HIS:CD2	1:G:301:ILE:HG23	2.36	0.61
1:H:418:ARG:CD	1:H:481:VAL:HB	2.17	0.61
1:H:424:LYS:HD3	1:H:428:PHE:CE1	2.35	0.61
1:J:265:LYS:HG3	1:K:245:LEU:CD1	2.31	0.61
1:K:259:HIS:CD2	1:K:301:ILE:HG23	2.36	0.61
1:L:501:LYS:O	1:L:505:LEU:HD23	2.01	0.61
2:Q:128:GLN:HG3	2:Q:129:ASN:H	1.65	0.61
2:W:97:TYR:HB2	2:W:161:LEU:HD21	1.81	0.61
1:A:361:LEU:C	1:A:361:LEU:HD23	2.25	0.61
1:A:399:MET:HB3	1:A:404:LEU:O	2.01	0.61
1:A:501:LYS:O	1:A:505:LEU:HD23	2.01	0.61
1:B:364:LEU:CD1	1:B:391:TRP:HB2	2.29	0.61
1:D:475:ILE:HG23	1:D:476:SER:N	2.16	0.61
1:G:364:LEU:CD1	1:G:391:TRP:HB2	2.29	0.61
1:G:424:LYS:HD3	1:G:428:PHE:CE1	2.35	0.61
1:G:475:ILE:HG23	1:G:476:SER:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:501:LYS:O	1:H:505:LEU:HD23	2.01	0.61
1:I:399:MET:HB3	1:I:404:LEU:O	2.01	0.61
1:L:259:HIS:CD2	1:L:301:ILE:HG23	2.35	0.61
1:L:354:ASP:CG	1:L:381:LYS:HD3	2.26	0.61
2:U:128:GLN:HG3	2:U:129:ASN:H	1.65	0.61
1:A:259:HIS:CD2	1:A:301:ILE:HG23	2.36	0.60
1:C:512:PRO:HA	1:C:515:GLN:NE2	2.15	0.60
1:D:498:VAL:O	1:D:502:PHE:HD1	1.82	0.60
1:F:259:HIS:CD2	1:F:301:ILE:HG23	2.35	0.60
1:F:399:MET:HB3	1:F:404:LEU:O	2.01	0.60
1:F:424:LYS:HD3	1:F:428:PHE:CE1	2.35	0.60
1:G:294:LEU:CD1	1:H:273:LEU:CD2	2.80	0.60
1:I:259:HIS:CD2	1:I:301:ILE:HG23	2.35	0.60
1:I:353:GLN:CG	2:U:98:VAL:O	2.49	0.60
1:I:364:LEU:CD1	1:I:391:TRP:HB2	2.29	0.60
1:J:273:LEU:O	1:J:291:LEU:HD23	2.00	0.60
1:J:424:LYS:HD3	1:J:428:PHE:CE1	2.35	0.60
1:K:228:ILE:HD13	1:K:277:LEU:HD21	1.82	0.60
1:A:361:LEU:HD21	1:A:372:ILE:C	2.26	0.60
1:B:354:ASP:CG	1:B:381:LYS:HD3	2.26	0.60
1:C:361:LEU:HD21	1:C:372:ILE:CG2	2.32	0.60
1:D:361:LEU:HD21	1:D:372:ILE:C	2.26	0.60
1:D:361:LEU:HD21	1:D:372:ILE:CG2	2.32	0.60
1:D:361:LEU:C	1:D:361:LEU:HD23	2.25	0.60
1:E:259:HIS:CD2	1:E:301:ILE:HG23	2.36	0.60
1:F:294:LEU:CD1	1:G:273:LEU:CD2	2.80	0.60
1:I:361:LEU:HD21	1:I:372:ILE:C	2.26	0.60
1:J:399:MET:HB3	1:J:404:LEU:O	2.01	0.60
1:K:265:LYS:HG3	1:L:245:LEU:CD1	2.31	0.60
1:K:361:LEU:HD21	1:K:372:ILE:CG2	2.32	0.60
1:K:501:LYS:O	1:K:505:LEU:HD23	2.01	0.60
1:L:228:ILE:HD13	1:L:277:LEU:HD21	1.82	0.60
1:L:353:GLN:CG	2:X:98:VAL:O	2.49	0.60
2:P:111:ILE:HD12	2:P:111:ILE:N	2.16	0.60
1:A:294:LEU:CA	1:B:273:LEU:CD2	2.65	0.60
1:B:501:LYS:O	1:B:505:LEU:HD23	2.01	0.60
1:C:361:LEU:HD23	1:C:361:LEU:C	2.25	0.60
1:E:424:LYS:HD3	1:E:428:PHE:CE1	2.35	0.60
1:E:483:ILE:CD1	1:E:491:ILE:HD12	2.30	0.60
1:H:265:LYS:HG3	1:I:245:LEU:CD1	2.31	0.60
1:H:353:GLN:CG	2:T:98:VAL:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:226:THR:HB	1:I:269:LEU:HD12	1.83	0.60
1:I:418:ARG:CD	1:I:481:VAL:HB	2.17	0.60
1:J:361:LEU:HD21	1:J:372:ILE:CG2	2.32	0.60
1:L:361:LEU:HD21	1:L:372:ILE:CG2	2.32	0.60
1:A:228:ILE:HD13	1:A:277:LEU:HD21	1.82	0.60
1:B:228:ILE:HD13	1:B:277:LEU:HD21	1.82	0.60
1:B:294:LEU:CD1	1:C:273:LEU:CD2	2.79	0.60
1:C:353:GLN:CG	2:O:98:VAL:O	2.49	0.60
1:D:501:LYS:O	1:D:505:LEU:HD23	2.01	0.60
1:D:512:PRO:HA	1:D:515:GLN:NE2	2.15	0.60
1:E:265:LYS:HG3	1:F:245:LEU:CD1	2.31	0.60
1:E:512:PRO:HA	1:E:515:GLN:NE2	2.15	0.60
1:G:361:LEU:HD21	1:G:372:ILE:C	2.26	0.60
1:G:483:ILE:CD1	1:G:491:ILE:HD12	2.30	0.60
1:H:343:PHE:HD1	1:I:469:GLY:HA2	1.57	0.60
1:J:228:ILE:HD13	1:J:277:LEU:HD21	1.82	0.60
1:J:458:SER:O	1:J:462:LEU:HG	2.02	0.60
1:K:389:VAL:HG23	1:L:376:ASP:OD2	2.01	0.60
1:L:361:LEU:HD21	1:L:372:ILE:C	2.26	0.60
1:A:353:GLN:CG	2:M:98:VAL:O	2.49	0.60
1:B:512:PRO:HA	1:B:515:GLN:NE2	2.15	0.60
1:C:226:THR:HB	1:C:269:LEU:HD12	1.83	0.60
1:C:259:HIS:CD2	1:C:301:ILE:HG23	2.35	0.60
1:C:294:LEU:CD1	1:D:273:LEU:CD2	2.80	0.60
1:C:399:MET:HB3	1:C:404:LEU:O	2.01	0.60
1:D:265:LYS:HG3	1:E:245:LEU:CD1	2.31	0.60
1:F:265:LYS:HG3	1:G:245:LEU:CD1	2.31	0.60
1:G:458:SER:O	1:G:462:LEU:HG	2.02	0.60
1:H:294:LEU:CD1	1:I:273:LEU:CD2	2.79	0.60
1:I:424:LYS:HD3	1:I:428:PHE:CE1	2.35	0.60
1:J:353:GLN:CG	2:V:98:VAL:O	2.49	0.60
1:J:501:LYS:O	1:J:505:LEU:HD23	2.01	0.60
1:B:273:LEU:O	1:B:291:LEU:HD23	2.00	0.60
1:B:361:LEU:HD23	1:B:361:LEU:C	2.25	0.60
1:C:501:LYS:O	1:C:505:LEU:HD23	2.01	0.60
1:E:294:LEU:CD1	1:F:273:LEU:CD2	2.79	0.60
1:E:361:LEU:HD21	1:E:372:ILE:CG2	2.32	0.60
1:E:364:LEU:CD1	1:E:391:TRP:HB2	2.29	0.60
1:F:389:VAL:HG23	1:G:376:ASP:OD2	2.01	0.60
2:N:128:GLN:HG3	2:N:129:ASN:H	1.65	0.60
2:U:161:LEU:HD22	2:U:161:LEU:C	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:361:LEU:HD21	1:B:372:ILE:CG2	2.32	0.60
1:E:354:ASP:CG	1:E:381:LYS:HD3	2.26	0.60
1:F:361:LEU:HD21	1:F:372:ILE:CG2	2.32	0.60
1:H:226:THR:HB	1:H:269:LEU:HD12	1.83	0.60
1:I:294:LEU:CD1	1:J:273:LEU:CD2	2.80	0.60
1:K:353:GLN:CG	2:W:98:VAL:O	2.49	0.60
2:T:161:LEU:HD22	2:T:161:LEU:C	2.27	0.60
2:V:128:GLN:HG3	2:V:129:ASN:H	1.65	0.60
2:W:161:LEU:HD22	2:W:161:LEU:C	2.27	0.60
1:A:242:LEU:HD12	1:A:243:ALA:N	2.17	0.60
1:A:475:ILE:HG23	1:A:476:SER:N	2.16	0.60
1:D:354:ASP:CG	1:D:381:LYS:HD3	2.26	0.60
1:D:447:GLN:HE22	1:E:505:LEU:HD13	1.67	0.60
1:E:228:ILE:HD13	1:E:277:LEU:HD21	1.82	0.60
1:F:399:MET:HA	1:F:403:ASN:HB2	1.84	0.60
1:G:406:MET:CB	1:H:468:THR:CG2	2.79	0.60
1:H:354:ASP:CG	1:H:381:LYS:HD3	2.26	0.60
1:H:361:LEU:HD21	1:H:372:ILE:C	2.26	0.60
1:H:458:SER:O	1:H:462:LEU:HG	2.02	0.60
1:J:354:ASP:CG	1:J:381:LYS:HD3	2.26	0.60
1:J:418:ARG:CD	1:J:481:VAL:HB	2.17	0.60
1:L:361:LEU:C	1:L:361:LEU:HD23	2.25	0.60
2:R:161:LEU:HD22	2:R:161:LEU:C	2.27	0.60
1:B:399:MET:HB3	1:B:404:LEU:O	2.01	0.60
1:B:447:GLN:HE22	1:C:505:LEU:HD13	1.67	0.60
1:B:458:SER:O	1:B:462:LEU:HG	2.02	0.60
1:C:389:VAL:HG23	1:D:376:ASP:OD2	2.01	0.60
1:D:399:MET:HB3	1:D:404:LEU:O	2.01	0.60
1:E:361:LEU:HD21	1:E:372:ILE:C	2.26	0.60
1:E:399:MET:HA	1:E:403:ASN:HB2	1.84	0.60
1:F:353:GLN:CG	2:R:98:VAL:O	2.49	0.60
1:G:354:ASP:CG	1:G:381:LYS:HD3	2.26	0.60
1:G:399:MET:HA	1:G:403:ASN:HB2	1.84	0.60
1:H:447:GLN:HE22	1:I:505:LEU:HD13	1.67	0.60
1:I:354:ASP:CG	1:I:381:LYS:HD3	2.26	0.60
1:I:361:LEU:HD21	1:I:372:ILE:CG2	2.32	0.60
2:M:111:ILE:HD12	2:M:111:ILE:N	2.16	0.60
1:A:376:ASP:OD2	1:L:389:VAL:HG23	2.01	0.60
1:C:242:LEU:HD12	1:C:243:ALA:N	2.17	0.60
1:E:293:ARG:HH11	1:F:272:THR:HG21	1.64	0.60
1:F:354:ASP:CG	1:F:381:LYS:HD3	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:447:GLN:HE22	1:G:505:LEU:HD13	1.67	0.60
1:F:483:ILE:CD1	1:F:491:ILE:HD12	2.30	0.60
1:I:501:LYS:O	1:I:505:LEU:HD23	2.01	0.60
1:J:361:LEU:HD21	1:J:372:ILE:C	2.26	0.60
1:A:354:ASP:CG	1:A:381:LYS:HD3	2.26	0.59
1:D:294:LEU:CD1	1:E:273:LEU:CD2	2.80	0.59
1:E:399:MET:HB3	1:E:404:LEU:O	2.01	0.59
1:G:226:THR:HB	1:G:269:LEU:HD12	1.83	0.59
1:G:399:MET:HB3	1:G:404:LEU:O	2.01	0.59
1:I:458:SER:O	1:I:462:LEU:HG	2.02	0.59
1:K:399:MET:HB3	1:K:404:LEU:O	2.01	0.59
1:L:475:ILE:HG23	1:L:476:SER:N	2.16	0.59
2:Q:161:LEU:HD22	2:Q:161:LEU:C	2.27	0.59
1:A:389:VAL:HG23	1:B:376:ASP:OD2	2.01	0.59
1:A:458:SER:O	1:A:462:LEU:HG	2.02	0.59
1:B:265:LYS:HG3	1:C:245:LEU:CD1	2.31	0.59
1:D:226:THR:HB	1:D:269:LEU:HD12	1.83	0.59
1:E:458:SER:O	1:E:462:LEU:HG	2.02	0.59
1:G:242:LEU:HD12	1:G:243:ALA:N	2.17	0.59
1:H:242:LEU:HD12	1:H:243:ALA:N	2.17	0.59
1:H:399:MET:HA	1:H:403:ASN:HB2	1.84	0.59
1:I:228:ILE:HD13	1:I:277:LEU:HD21	1.82	0.59
1:I:389:VAL:HG23	1:J:376:ASP:OD2	2.01	0.59
1:K:294:LEU:CD1	1:L:273:LEU:CD2	2.79	0.59
1:K:354:ASP:CG	1:K:381:LYS:HD3	2.26	0.59
1:K:418:ARG:CD	1:K:481:VAL:HB	2.17	0.59
2:S:161:LEU:HD22	2:S:161:LEU:C	2.27	0.59
1:A:273:LEU:CD2	1:L:294:LEU:CD1	2.80	0.59
1:A:294:LEU:CD1	1:B:273:LEU:CD2	2.80	0.59
1:B:256:GLN:NE2	1:C:231:ARG:CD	2.48	0.59
1:C:361:LEU:HD21	1:C:372:ILE:C	2.26	0.59
1:D:399:MET:HA	1:D:403:ASN:HB2	1.84	0.59
1:F:361:LEU:HD21	1:F:372:ILE:C	2.26	0.59
1:G:265:LYS:HG3	1:H:245:LEU:CD1	2.31	0.59
1:G:361:LEU:HD21	1:G:372:ILE:CG2	2.32	0.59
1:H:361:LEU:HD21	1:H:372:ILE:CG2	2.32	0.59
1:J:294:LEU:CD1	1:K:273:LEU:CD2	2.80	0.59
1:L:347:LYS:HZ2	2:X:104:GLY:CA	2.00	0.59
1:A:414:ASN:C	1:A:415:ILE:HD12	2.28	0.59
1:A:505:LEU:HD13	1:L:447:GLN:HE22	1.67	0.59
1:B:414:ASN:C	1:B:415:ILE:HD12	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:501:LYS:O	1:G:505:LEU:HD23	2.01	0.59
1:I:265:LYS:HG3	1:J:245:LEU:CD1	2.31	0.59
1:I:447:GLN:HE22	1:J:505:LEU:HD13	1.67	0.59
1:K:364:LEU:CD1	1:K:391:TRP:HB2	2.29	0.59
1:L:361:LEU:HG	1:L:372:ILE:HG21	1.85	0.59
1:L:414:ASN:C	1:L:415:ILE:HD12	2.28	0.59
1:B:374:ALA:HB1	1:B:378:VAL:HG11	1.85	0.59
1:C:361:LEU:HG	1:C:372:ILE:HG21	1.85	0.59
1:D:414:ASN:C	1:D:415:ILE:HD12	2.28	0.59
1:I:399:MET:HA	1:I:403:ASN:HB2	1.84	0.59
1:J:361:LEU:HG	1:J:372:ILE:HG21	1.85	0.59
1:J:406:MET:CB	1:K:468:THR:CG2	2.79	0.59
1:K:475:ILE:HG23	1:K:476:SER:N	2.16	0.59
1:L:242:LEU:HD12	1:L:243:ALA:N	2.17	0.59
2:T:102:LYS:CB	2:T:107:VAL:HA	2.33	0.59
2:V:102:LYS:CB	2:V:107:VAL:HA	2.33	0.59
2:W:102:LYS:CB	2:W:107:VAL:HA	2.33	0.59
1:A:228:ILE:HD12	1:A:228:ILE:O	2.03	0.59
1:A:361:LEU:HD21	1:A:372:ILE:CG2	2.32	0.59
1:B:389:VAL:HG23	1:C:376:ASP:OD2	2.01	0.59
1:C:414:ASN:C	1:C:415:ILE:HD12	2.28	0.59
1:D:294:LEU:HG	1:E:273:LEU:HD21	1.76	0.59
1:E:226:THR:HB	1:E:269:LEU:HD12	1.83	0.59
1:E:361:LEU:HG	1:E:372:ILE:HG21	1.85	0.59
1:F:242:LEU:HD12	1:F:243:ALA:N	2.17	0.59
1:G:447:GLN:HE22	1:H:505:LEU:HD13	1.67	0.59
1:I:374:ALA:HB1	1:I:378:VAL:HG11	1.85	0.59
1:K:242:LEU:HD12	1:K:243:ALA:N	2.17	0.59
1:K:447:GLN:HE22	1:L:505:LEU:HD13	1.67	0.59
1:L:373:VAL:O	1:L:414:ASN:HA	2.03	0.59
1:L:399:MET:HB3	1:L:404:LEU:O	2.01	0.59
1:L:458:SER:O	1:L:462:LEU:HG	2.02	0.59
2:N:161:LEU:HD22	2:N:161:LEU:C	2.27	0.59
2:P:161:LEU:HD22	2:P:161:LEU:C	2.27	0.59
1:A:447:GLN:HE22	1:B:505:LEU:HD13	1.67	0.59
1:C:354:ASP:CG	1:C:381:LYS:HD3	2.26	0.59
1:C:399:MET:HA	1:C:403:ASN:HB2	1.84	0.59
1:D:458:SER:O	1:D:462:LEU:HG	2.02	0.59
1:E:228:ILE:HD12	1:E:228:ILE:O	2.03	0.59
1:E:414:ASN:C	1:E:415:ILE:HD12	2.28	0.59
1:E:501:LYS:O	1:E:505:LEU:HD23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:226:THR:HB	1:F:269:LEU:HD12	1.83	0.59
1:H:374:ALA:HB1	1:H:378:VAL:HG11	1.85	0.59
1:L:361:LEU:HD21	1:L:372:ILE:CB	2.33	0.59
2:U:102:LYS:CB	2:U:107:VAL:HA	2.33	0.59
2:V:161:LEU:HD22	2:V:161:LEU:C	2.27	0.59
1:B:373:VAL:O	1:B:414:ASN:HA	2.03	0.59
1:C:475:ILE:HG23	1:C:476:SER:N	2.16	0.59
1:D:361:LEU:HD21	1:D:372:ILE:CB	2.33	0.59
1:E:447:GLN:CG	1:F:508:GLU:CD	2.47	0.59
1:H:228:ILE:HD12	1:H:228:ILE:O	2.03	0.59
1:H:373:VAL:O	1:H:414:ASN:HA	2.03	0.59
1:I:242:LEU:HD12	1:I:243:ALA:N	2.17	0.59
1:J:228:ILE:O	1:J:228:ILE:HD12	2.03	0.59
1:K:374:ALA:HB1	1:K:378:VAL:HG11	1.85	0.59
1:K:414:ASN:C	1:K:415:ILE:HD12	2.28	0.59
2:M:161:LEU:HD22	2:M:161:LEU:C	2.27	0.59
2:R:102:LYS:CB	2:R:107:VAL:HA	2.33	0.59
2:X:144:ASN:HA	2:X:158:LYS:HA	1.85	0.59
1:B:265:LYS:NZ	1:C:245:LEU:HA	2.17	0.59
1:B:361:LEU:HD21	1:B:372:ILE:CB	2.33	0.59
1:B:361:LEU:HG	1:B:372:ILE:HG21	1.85	0.59
1:C:265:LYS:NZ	1:D:245:LEU:HA	2.17	0.59
1:C:458:SER:O	1:C:462:LEU:HG	2.02	0.59
1:E:374:ALA:HB1	1:E:378:VAL:HG11	1.85	0.59
1:F:228:ILE:HD12	1:F:228:ILE:O	2.03	0.59
1:F:343:PHE:CB	1:G:469:GLY:C	2.42	0.59
1:F:374:ALA:HB1	1:F:378:VAL:HG11	1.85	0.59
1:F:414:ASN:C	1:F:415:ILE:HD12	2.28	0.59
1:G:361:LEU:HD21	1:G:372:ILE:CB	2.33	0.59
1:J:242:LEU:HD12	1:J:243:ALA:N	2.17	0.59
1:K:458:SER:O	1:K:462:LEU:HG	2.02	0.59
1:L:418:ARG:CD	1:L:481:VAL:HB	2.17	0.59
2:M:144:ASN:HA	2:M:158:LYS:HA	1.85	0.59
2:W:144:ASN:HA	2:W:158:LYS:HA	1.85	0.59
1:A:256:GLN:NE2	1:B:231:ARG:CD	2.48	0.59
1:B:228:ILE:O	1:B:228:ILE:HD12	2.03	0.59
1:C:374:ALA:HB1	1:C:378:VAL:HG11	1.85	0.59
1:C:447:GLN:HE22	1:D:505:LEU:HD13	1.67	0.59
1:D:389:VAL:HG23	1:E:376:ASP:OD2	2.01	0.59
1:D:483:ILE:CD1	1:D:491:ILE:HB	2.33	0.59
1:E:361:LEU:HD21	1:E:372:ILE:CB	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:373:VAL:O	1:G:414:ASN:HA	2.03	0.59
1:G:483:ILE:CD1	1:G:491:ILE:HB	2.33	0.59
1:H:293:ARG:HH11	1:I:272:THR:HG21	1.64	0.59
1:J:399:MET:HA	1:J:403:ASN:HB2	1.84	0.59
1:J:475:ILE:HG23	1:J:476:SER:N	2.16	0.59
1:L:374:ALA:HB1	1:L:378:VAL:HG11	1.85	0.59
2:N:144:ASN:HA	2:N:158:LYS:HA	1.85	0.59
2:X:102:LYS:CB	2:X:107:VAL:HA	2.33	0.59
2:X:161:LEU:HD22	2:X:161:LEU:C	2.27	0.59
1:A:361:LEU:HG	1:A:372:ILE:HG21	1.85	0.58
1:A:468:THR:CG2	1:L:406:MET:CB	2.79	0.58
1:B:242:LEU:HD12	1:B:243:ALA:N	2.17	0.58
1:B:399:MET:HA	1:B:403:ASN:HB2	1.84	0.58
1:C:361:LEU:HD21	1:C:372:ILE:CB	2.33	0.58
1:F:232:LYS:HE3	1:F:284:THR:HG22	1.85	0.58
1:I:373:VAL:O	1:I:414:ASN:HA	2.03	0.58
2:O:144:ASN:HA	2:O:158:LYS:HA	1.85	0.58
2:P:144:ASN:HA	2:P:158:LYS:HA	1.85	0.58
2:Q:144:ASN:HA	2:Q:158:LYS:HA	1.85	0.58
1:B:483:ILE:CD1	1:B:491:ILE:HB	2.33	0.58
1:C:406:MET:CB	1:D:468:THR:CG2	2.79	0.58
1:E:242:LEU:HD12	1:E:243:ALA:N	2.17	0.58
1:F:475:ILE:HG23	1:F:476:SER:N	2.16	0.58
1:G:414:ASN:C	1:G:415:ILE:HD12	2.28	0.58
1:H:361:LEU:HG	1:H:372:ILE:HG21	1.85	0.58
1:I:361:LEU:HD21	1:I:372:ILE:CB	2.33	0.58
1:J:347:LYS:HZ1	2:V:104:GLY:CA	2.04	0.58
1:K:228:ILE:HD12	1:K:228:ILE:O	2.03	0.58
1:K:399:MET:HA	1:K:403:ASN:HB2	1.84	0.58
2:Q:102:LYS:CB	2:Q:107:VAL:HA	2.33	0.58
2:U:144:ASN:HA	2:U:158:LYS:HA	1.85	0.58
2:V:144:ASN:HA	2:V:158:LYS:HA	1.85	0.58
1:A:361:LEU:HD21	1:A:372:ILE:CB	2.33	0.58
1:A:483:ILE:CD1	1:A:491:ILE:HB	2.33	0.58
1:D:242:LEU:HD12	1:D:243:ALA:N	2.17	0.58
1:E:447:GLN:HE22	1:F:505:LEU:HD13	1.67	0.58
1:F:373:VAL:O	1:F:414:ASN:HA	2.03	0.58
1:I:232:LYS:HE3	1:I:284:THR:HG22	1.85	0.58
1:J:361:LEU:HD21	1:J:372:ILE:CB	2.33	0.58
1:J:414:ASN:C	1:J:415:ILE:HD12	2.28	0.58
1:K:373:VAL:O	1:K:414:ASN:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:399:MET:HA	1:L:403:ASN:HB2	1.84	0.58
2:M:102:LYS:CB	2:M:107:VAL:HA	2.33	0.58
2:R:131:GLY:HA2	2:R:145:GLU:HA	1.86	0.58
2:S:131:GLY:HA2	2:S:145:GLU:HA	1.86	0.58
2:T:144:ASN:HA	2:T:158:LYS:HA	1.85	0.58
1:A:399:MET:HA	1:A:403:ASN:HB2	1.84	0.58
1:D:265:LYS:NZ	1:E:245:LEU:HA	2.18	0.58
1:E:483:ILE:CD1	1:E:491:ILE:HB	2.33	0.58
1:F:458:SER:O	1:F:462:LEU:HG	2.02	0.58
1:G:352:PHE:HB3	1:G:355:VAL:CG1	2.34	0.58
1:G:361:LEU:HG	1:G:372:ILE:HG21	1.85	0.58
1:I:346:ARG:O	1:I:348:ILE:HD12	2.04	0.58
1:J:364:LEU:HG	1:J:395:LEU:HD21	1.86	0.58
2:Q:131:GLY:HA2	2:Q:145:GLU:HA	1.86	0.58
2:S:161:LEU:HD13	2:S:161:LEU:C	2.29	0.58
2:U:131:GLY:HA2	2:U:145:GLU:HA	1.86	0.58
2:V:131:GLY:HA2	2:V:145:GLU:HA	1.86	0.58
1:C:228:ILE:HD12	1:C:228:ILE:O	2.03	0.58
1:D:232:LYS:HE3	1:D:284:THR:HG22	1.85	0.58
1:G:228:ILE:HD12	1:G:228:ILE:O	2.03	0.58
1:H:346:ARG:O	1:H:348:ILE:HD12	2.04	0.58
1:H:352:PHE:HB3	1:H:355:VAL:CG1	2.34	0.58
1:H:414:ASN:C	1:H:415:ILE:HD12	2.28	0.58
1:I:414:ASN:C	1:I:415:ILE:HD12	2.28	0.58
1:J:346:ARG:O	1:J:348:ILE:HD12	2.04	0.58
1:J:373:VAL:O	1:J:414:ASN:HA	2.03	0.58
1:K:364:LEU:HG	1:K:395:LEU:HD21	1.86	0.58
2:N:102:LYS:CB	2:N:107:VAL:HA	2.33	0.58
2:O:161:LEU:HD22	2:O:161:LEU:C	2.27	0.58
2:P:102:LYS:CB	2:P:107:VAL:HA	2.33	0.58
2:Q:161:LEU:HD13	2:Q:161:LEU:C	2.29	0.58
2:R:144:ASN:HA	2:R:158:LYS:HA	1.85	0.58
2:T:131:GLY:HA2	2:T:145:GLU:HA	1.86	0.58
1:A:374:ALA:HB1	1:A:378:VAL:HG11	1.85	0.58
1:B:446:PHE:HE2	1:B:503:ARG:CB	2.17	0.58
1:G:232:LYS:HE3	1:G:284:THR:HG22	1.85	0.58
1:I:352:PHE:HB3	1:I:355:VAL:CG1	2.34	0.58
1:K:361:LEU:HD21	1:K:372:ILE:CB	2.33	0.58
1:L:228:ILE:HD12	1:L:228:ILE:O	2.03	0.58
2:P:161:LEU:HD13	2:P:161:LEU:C	2.29	0.58
2:S:144:ASN:HA	2:S:158:LYS:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:161:LEU:HD13	2:T:161:LEU:C	2.29	0.58
2:W:131:GLY:HA2	2:W:145:GLU:HA	1.86	0.58
1:A:245:LEU:CD1	1:L:265:LYS:HG3	2.31	0.58
1:A:265:LYS:NZ	1:B:245:LEU:HA	2.18	0.58
1:A:446:PHE:HE2	1:A:503:ARG:CB	2.17	0.58
1:C:232:LYS:HE3	1:C:284:THR:HG22	1.85	0.58
1:D:361:LEU:HG	1:D:372:ILE:HG21	1.85	0.58
1:F:406:MET:CB	1:G:468:THR:CG2	2.79	0.58
1:F:483:ILE:CD1	1:F:491:ILE:HB	2.33	0.58
1:G:346:ARG:O	1:G:348:ILE:HD12	2.04	0.58
1:J:483:ILE:CD1	1:J:491:ILE:HB	2.33	0.58
2:S:102:LYS:CB	2:S:107:VAL:HA	2.33	0.58
1:C:373:VAL:O	1:C:414:ASN:HA	2.03	0.58
1:C:446:PHE:HE2	1:C:503:ARG:CB	2.17	0.58
1:E:373:VAL:O	1:E:414:ASN:HA	2.03	0.58
1:G:483:ILE:HD11	1:G:491:ILE:HB	1.86	0.58
1:H:483:ILE:CD1	1:H:491:ILE:HB	2.33	0.58
1:K:346:ARG:O	1:K:348:ILE:HD12	2.04	0.58
1:L:446:PHE:HE2	1:L:503:ARG:CB	2.17	0.58
2:M:131:GLY:HA2	2:M:145:GLU:HA	1.86	0.58
2:O:102:LYS:CB	2:O:107:VAL:HA	2.33	0.58
2:P:131:GLY:HA2	2:P:145:GLU:HA	1.86	0.58
1:B:483:ILE:HD11	1:B:491:ILE:HB	1.86	0.58
1:D:228:ILE:HD12	1:D:228:ILE:O	2.03	0.58
1:F:352:PHE:HB3	1:F:355:VAL:CG1	2.34	0.58
1:F:361:LEU:HG	1:F:372:ILE:HG21	1.85	0.58
1:J:352:PHE:HB3	1:J:355:VAL:CG1	2.34	0.58
1:K:483:ILE:HD11	1:K:491:ILE:HB	1.86	0.58
2:N:131:GLY:HA2	2:N:145:GLU:HA	1.86	0.58
2:O:131:GLY:HA2	2:O:145:GLU:HA	1.86	0.58
1:B:364:LEU:HG	1:B:395:LEU:HD21	1.86	0.58
1:B:475:ILE:HG23	1:B:476:SER:N	2.16	0.58
1:C:364:LEU:HG	1:C:395:LEU:HD21	1.86	0.58
1:D:374:ALA:HB1	1:D:378:VAL:HG11	1.85	0.58
1:F:346:ARG:O	1:F:348:ILE:HD12	2.04	0.58
1:F:361:LEU:HD21	1:F:372:ILE:CB	2.33	0.58
1:H:483:ILE:HD11	1:H:491:ILE:HB	1.86	0.58
1:J:447:GLN:HE22	1:K:505:LEU:HD13	1.67	0.58
1:K:361:LEU:HG	1:K:372:ILE:HG21	1.85	0.58
1:K:483:ILE:CD1	1:K:491:ILE:HB	2.33	0.58
1:A:273:LEU:HD21	1:L:294:LEU:HG	1.76	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:352:PHE:HB3	1:B:355:VAL:CG1	2.34	0.57
1:C:352:PHE:HB3	1:C:355:VAL:CG1	2.34	0.57
1:C:483:ILE:CD1	1:C:491:ILE:HB	2.33	0.57
1:D:373:VAL:O	1:D:414:ASN:HA	2.03	0.57
1:D:446:PHE:HE2	1:D:503:ARG:CB	2.17	0.57
1:H:232:LYS:HE3	1:H:284:THR:HG22	1.86	0.57
1:H:256:GLN:CD	1:I:231:ARG:HD2	2.29	0.57
1:I:228:ILE:HD12	1:I:228:ILE:O	2.03	0.57
1:K:446:PHE:HE2	1:K:503:ARG:CB	2.17	0.57
1:L:346:ARG:O	1:L:348:ILE:HD12	2.04	0.57
2:V:161:LEU:HD13	2:V:161:LEU:C	2.29	0.57
2:X:131:GLY:HA2	2:X:145:GLU:HA	1.86	0.57
1:A:373:VAL:O	1:A:414:ASN:HA	2.03	0.57
1:A:418:ARG:CD	1:A:481:VAL:HB	2.17	0.57
1:A:483:ILE:HD11	1:A:491:ILE:HB	1.86	0.57
1:C:265:LYS:NZ	1:D:245:LEU:CA	2.35	0.57
1:D:364:LEU:HG	1:D:395:LEU:HD21	1.86	0.57
1:E:483:ILE:HD11	1:E:491:ILE:HB	1.86	0.57
1:I:364:LEU:HG	1:I:395:LEU:HD21	1.86	0.57
1:J:265:LYS:CE	1:K:245:LEU:CB	2.01	0.57
2:Q:92:LEU:HB2	2:Q:128:GLN:HG2	1.86	0.57
1:A:352:PHE:HB3	1:A:355:VAL:CG1	2.34	0.57
1:D:293:ARG:HH11	1:E:272:THR:HG21	1.64	0.57
1:D:483:ILE:HD11	1:D:491:ILE:HB	1.86	0.57
1:E:446:PHE:HE2	1:E:503:ARG:CB	2.17	0.57
1:F:343:PHE:HB3	1:G:470:ASN:H	1.49	0.57
1:F:364:LEU:HG	1:F:395:LEU:HD21	1.86	0.57
1:H:361:LEU:HD21	1:H:372:ILE:CB	2.33	0.57
1:I:361:LEU:HG	1:I:372:ILE:HG21	1.85	0.57
1:I:406:MET:CB	1:J:468:THR:CG2	2.79	0.57
1:I:483:ILE:CD1	1:I:491:ILE:HB	2.33	0.57
1:J:232:LYS:HE3	1:J:284:THR:HG22	1.85	0.57
1:J:374:ALA:HB1	1:J:378:VAL:HG11	1.85	0.57
1:J:483:ILE:HD11	1:J:491:ILE:HB	1.86	0.57
1:K:256:GLN:CD	1:L:231:ARG:HD2	2.29	0.57
2:N:161:LEU:HD13	2:N:161:LEU:C	2.29	0.57
1:A:346:ARG:O	1:A:348:ILE:HD12	2.04	0.57
1:A:347:LYS:CE	2:M:104:GLY:N	2.67	0.57
1:E:346:ARG:O	1:E:348:ILE:HD12	2.04	0.57
1:E:364:LEU:HG	1:E:395:LEU:HD21	1.86	0.57
1:G:293:ARG:HH11	1:H:272:THR:HG21	1.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:364:LEU:HG	1:G:395:LEU:HD21	1.86	0.57
1:G:374:ALA:HB1	1:G:378:VAL:HG11	1.85	0.57
1:J:446:PHE:HE2	1:J:503:ARG:CB	2.17	0.57
1:K:405:ASP:O	1:K:415:ILE:HG23	2.05	0.57
1:L:232:LYS:HE3	1:L:284:THR:HG22	1.85	0.57
1:L:364:LEU:HG	1:L:395:LEU:HD21	1.86	0.57
2:U:111:ILE:HG22	2:U:112:GLU:N	2.19	0.57
1:A:382:MET:SD	1:A:398:VAL:HG13	2.45	0.57
1:D:346:ARG:O	1:D:348:ILE:HD12	2.04	0.57
1:E:352:PHE:HB3	1:E:355:VAL:CG1	2.34	0.57
1:E:456:PHE:O	1:E:459:ILE:HG12	2.05	0.57
1:F:382:MET:SD	1:F:398:VAL:HG13	2.45	0.57
1:F:446:PHE:HE2	1:F:503:ARG:CB	2.17	0.57
1:G:382:MET:SD	1:G:398:VAL:HG13	2.45	0.57
1:I:475:ILE:HG23	1:I:476:SER:N	2.16	0.57
1:L:405:ASP:O	1:L:415:ILE:HG23	2.05	0.57
2:M:161:LEU:HD13	2:M:161:LEU:C	2.29	0.57
2:O:110:PHE:CE1	2:O:117:VAL:HB	2.40	0.57
2:T:110:PHE:CE1	2:T:117:VAL:HB	2.40	0.57
2:X:110:PHE:CE1	2:X:117:VAL:HB	2.40	0.57
2:X:161:LEU:HD13	2:X:161:LEU:C	2.29	0.57
1:A:364:LEU:HG	1:A:395:LEU:HD21	1.86	0.57
1:C:456:PHE:O	1:C:459:ILE:HG12	2.05	0.57
1:D:382:MET:SD	1:D:398:VAL:HG13	2.45	0.57
1:E:232:LYS:HE3	1:E:284:THR:HG22	1.86	0.57
1:I:446:PHE:HE2	1:I:503:ARG:CB	2.17	0.57
1:J:361:LEU:HD21	1:J:372:ILE:O	2.05	0.57
1:J:405:ASP:O	1:J:415:ILE:HG23	2.05	0.57
1:K:352:PHE:HB3	1:K:355:VAL:CG1	2.34	0.57
1:L:483:ILE:CD1	1:L:491:ILE:HB	2.33	0.57
2:R:161:LEU:HD13	2:R:161:LEU:C	2.29	0.57
2:V:111:ILE:HG22	2:V:112:GLU:N	2.19	0.57
2:W:111:ILE:HG22	2:W:112:GLU:N	2.19	0.57
1:A:447:GLN:OE1	1:B:508:GLU:OE2	2.23	0.57
1:B:346:ARG:O	1:B:348:ILE:HD12	2.04	0.57
1:C:346:ARG:O	1:C:348:ILE:HD12	2.04	0.57
1:E:361:LEU:HD21	1:E:372:ILE:O	2.05	0.57
1:F:467:THR:CG2	1:F:476:SER:HB2	2.35	0.57
1:H:382:MET:SD	1:H:398:VAL:HG13	2.45	0.57
1:H:485:PRO:HG2	1:H:489:THR:OG1	2.05	0.57
1:I:361:LEU:HD21	1:I:372:ILE:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:361:LEU:HD21	1:K:372:ILE:O	2.05	0.57
2:N:110:PHE:CE1	2:N:117:VAL:HB	2.40	0.57
2:O:92:LEU:HB2	2:O:128:GLN:HG2	1.86	0.57
2:O:161:LEU:HD13	2:O:161:LEU:C	2.29	0.57
2:S:111:ILE:HG22	2:S:112:GLU:N	2.19	0.57
2:T:111:ILE:HG22	2:T:112:GLU:N	2.19	0.57
2:U:161:LEU:HD13	2:U:161:LEU:C	2.29	0.57
1:A:232:LYS:HE3	1:A:284:THR:HG22	1.85	0.57
1:A:245:LEU:HA	1:L:265:LYS:NZ	2.17	0.57
1:D:456:PHE:O	1:D:459:ILE:HG12	2.05	0.57
1:E:382:MET:SD	1:E:398:VAL:HG13	2.45	0.57
1:E:485:PRO:HG2	1:E:489:THR:OG1	2.05	0.57
1:L:483:ILE:HD11	1:L:491:ILE:HB	1.86	0.57
2:P:111:ILE:HG22	2:P:112:GLU:N	2.19	0.57
2:Q:110:PHE:CE1	2:Q:117:VAL:HB	2.40	0.57
2:R:92:LEU:HB2	2:R:128:GLN:HG2	1.86	0.57
2:R:110:PHE:CE1	2:R:117:VAL:HB	2.40	0.57
1:A:456:PHE:O	1:A:459:ILE:HG12	2.05	0.57
1:B:406:MET:CB	1:C:468:THR:CG2	2.79	0.57
1:F:456:PHE:O	1:F:459:ILE:HG12	2.05	0.57
1:G:361:LEU:HD21	1:G:372:ILE:O	2.05	0.57
1:G:404:LEU:HA	1:G:419:ASP:OD2	2.05	0.57
1:H:446:PHE:HE2	1:H:503:ARG:CB	2.17	0.57
1:I:293:ARG:HH11	1:J:272:THR:HG21	1.64	0.57
1:I:405:ASP:O	1:I:415:ILE:HG23	2.05	0.57
1:K:404:LEU:HA	1:K:419:ASP:OD2	2.05	0.57
1:L:352:PHE:HB3	1:L:355:VAL:CG1	2.34	0.57
1:L:467:THR:CG2	1:L:476:SER:HB2	2.35	0.57
2:T:92:LEU:HB2	2:T:128:GLN:HG2	1.86	0.57
1:A:405:ASP:O	1:A:415:ILE:HG23	2.05	0.57
1:B:382:MET:SD	1:B:398:VAL:HG13	2.45	0.57
1:B:447:GLN:CG	1:C:508:GLU:CD	2.47	0.57
1:C:361:LEU:HD21	1:C:372:ILE:O	2.05	0.57
1:C:467:THR:CG2	1:C:476:SER:HB2	2.35	0.57
1:G:511:VAL:O	1:G:514:GLN:HB3	2.05	0.57
1:H:467:THR:CG2	1:H:476:SER:HB2	2.35	0.57
1:I:265:LYS:NZ	1:J:245:LEU:HA	2.17	0.57
1:I:467:THR:CG2	1:I:476:SER:HB2	2.35	0.57
1:J:404:LEU:HA	1:J:419:ASP:OD2	2.05	0.57
1:K:467:THR:CG2	1:K:476:SER:HB2	2.35	0.57
1:L:361:LEU:HD21	1:L:372:ILE:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:404:LEU:HA	1:L:419:ASP:OD2	2.05	0.57
2:N:92:LEU:HB2	2:N:128:GLN:HG2	1.86	0.57
2:W:161:LEU:HD13	2:W:161:LEU:C	2.29	0.57
2:X:111:ILE:HG22	2:X:112:GLU:N	2.19	0.57
1:C:485:PRO:HG2	1:C:489:THR:OG1	2.05	0.56
1:D:352:PHE:HB3	1:D:355:VAL:CG1	2.34	0.56
1:E:405:ASP:O	1:E:415:ILE:HG23	2.05	0.56
1:F:405:ASP:O	1:F:415:ILE:HG23	2.05	0.56
1:F:453:VAL:HG23	1:F:488:ASN:OD1	2.05	0.56
1:H:352:PHE:HB3	1:H:355:VAL:HG12	1.87	0.56
1:H:361:LEU:HD21	1:H:372:ILE:O	2.05	0.56
1:H:364:LEU:HG	1:H:395:LEU:HD21	1.86	0.56
1:I:382:MET:SD	1:I:398:VAL:HG13	2.45	0.56
1:I:453:VAL:HG23	1:I:488:ASN:OD1	2.05	0.56
1:J:352:PHE:HB3	1:J:355:VAL:HG12	1.87	0.56
1:J:490:LEU:HD23	1:J:506:ILE:CD1	2.35	0.56
1:K:232:LYS:HE3	1:K:284:THR:HG22	1.86	0.56
1:K:347:LYS:HE3	2:W:104:GLY:CA	2.35	0.56
2:M:110:PHE:CE1	2:M:117:VAL:HB	2.40	0.56
2:Q:92:LEU:HD13	2:Q:127:GLY:HA2	1.87	0.56
2:V:110:PHE:CE1	2:V:117:VAL:HB	2.40	0.56
1:A:273:LEU:HD21	1:L:294:LEU:CG	2.27	0.56
1:B:404:LEU:HA	1:B:419:ASP:OD2	2.05	0.56
1:B:447:GLN:OE1	1:C:508:GLU:OE2	2.23	0.56
1:B:453:VAL:HG23	1:B:488:ASN:OD1	2.05	0.56
1:B:467:THR:CG2	1:B:476:SER:HB2	2.35	0.56
1:C:389:VAL:HG23	1:D:376:ASP:CG	2.28	0.56
1:E:404:LEU:HA	1:E:419:ASP:OD2	2.05	0.56
1:G:446:PHE:HE2	1:G:503:ARG:CB	2.17	0.56
1:H:447:GLN:OE1	1:I:508:GLU:OE2	2.23	0.56
1:L:453:VAL:HG23	1:L:488:ASN:OD1	2.05	0.56
1:L:456:PHE:O	1:L:459:ILE:HG12	2.05	0.56
2:S:92:LEU:HB2	2:S:128:GLN:HG2	1.86	0.56
1:A:272:THR:CG2	1:L:293:ARG:NH1	2.48	0.56
1:B:265:LYS:CE	1:C:245:LEU:CB	2.01	0.56
1:C:372:ILE:HA	1:C:413:VAL:HG22	1.87	0.56
1:C:382:MET:SD	1:C:398:VAL:HG13	2.45	0.56
1:C:404:LEU:HA	1:C:419:ASP:OD2	2.05	0.56
1:C:483:ILE:HD11	1:C:491:ILE:HB	1.86	0.56
1:C:511:VAL:O	1:C:514:GLN:HB3	2.05	0.56
1:E:347:LYS:CE	2:Q:104:GLY:N	2.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:467:THR:CG2	1:E:476:SER:HB2	2.35	0.56
1:F:361:LEU:HD21	1:F:372:ILE:O	2.05	0.56
1:F:483:ILE:HD11	1:F:491:ILE:HB	1.86	0.56
1:F:485:PRO:HG2	1:F:489:THR:OG1	2.05	0.56
1:G:352:PHE:HB3	1:G:355:VAL:HG12	1.87	0.56
1:G:485:PRO:HG2	1:G:489:THR:OG1	2.05	0.56
1:H:347:LYS:HE3	2:T:104:GLY:CA	2.35	0.56
1:H:453:VAL:HG23	1:H:488:ASN:OD1	2.05	0.56
1:H:511:VAL:O	1:H:514:GLN:HB3	2.05	0.56
1:I:347:LYS:HE3	2:U:104:GLY:CA	2.35	0.56
1:I:404:LEU:HA	1:I:419:ASP:OD2	2.05	0.56
1:J:347:LYS:HE3	2:V:104:GLY:CA	2.35	0.56
1:K:382:MET:SD	1:K:398:VAL:HG13	2.45	0.56
1:K:453:VAL:HG23	1:K:488:ASN:OD1	2.05	0.56
1:K:490:LEU:HD23	1:K:506:ILE:CD1	2.35	0.56
1:L:382:MET:SD	1:L:398:VAL:HG13	2.45	0.56
2:O:111:ILE:HG22	2:O:112:GLU:N	2.19	0.56
2:P:92:LEU:HB2	2:P:128:GLN:HG2	1.86	0.56
2:Q:133:ILE:HD12	2:Q:143:LEU:HB3	1.88	0.56
2:R:133:ILE:HD12	2:R:143:LEU:HB3	1.88	0.56
2:S:133:ILE:HD12	2:S:143:LEU:HB3	1.88	0.56
2:T:133:ILE:HD12	2:T:143:LEU:HB3	1.88	0.56
2:U:133:ILE:HD12	2:U:143:LEU:HB3	1.88	0.56
2:V:133:ILE:HD12	2:V:143:LEU:HB3	1.88	0.56
1:A:404:LEU:HA	1:A:419:ASP:OD2	2.05	0.56
1:B:232:LYS:HE3	1:B:284:THR:HG22	1.86	0.56
1:B:490:LEU:HD23	1:B:506:ILE:CD1	2.35	0.56
1:D:453:VAL:HG23	1:D:488:ASN:OD1	2.05	0.56
1:F:511:VAL:O	1:F:514:GLN:HB3	2.05	0.56
1:G:405:ASP:O	1:G:415:ILE:HG23	2.05	0.56
1:I:483:ILE:HD11	1:I:491:ILE:HB	1.86	0.56
1:J:382:MET:SD	1:J:398:VAL:HG13	2.45	0.56
2:W:92:LEU:HD13	2:W:127:GLY:HA2	1.87	0.56
2:W:133:ILE:HD12	2:W:143:LEU:HB3	1.88	0.56
2:X:92:LEU:HD13	2:X:127:GLY:HA2	1.87	0.56
1:A:453:VAL:HG23	1:A:488:ASN:OD1	2.05	0.56
1:A:511:VAL:O	1:A:514:GLN:HB3	2.05	0.56
1:B:405:ASP:O	1:B:415:ILE:HG23	2.05	0.56
1:B:456:PHE:O	1:B:459:ILE:HG12	2.05	0.56
1:C:405:ASP:O	1:C:415:ILE:HG23	2.05	0.56
1:C:490:LEU:HD23	1:C:506:ILE:CD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:361:LEU:HD21	1:D:372:ILE:O	2.05	0.56
1:F:382:MET:HE1	1:F:384:LEU:HG	1.88	0.56
1:G:467:THR:CG2	1:G:476:SER:HB2	2.35	0.56
1:H:405:ASP:O	1:H:415:ILE:HG23	2.05	0.56
1:H:456:PHE:O	1:H:459:ILE:HG12	2.05	0.56
1:J:485:PRO:HG2	1:J:489:THR:OG1	2.05	0.56
1:L:485:PRO:HG2	1:L:489:THR:OG1	2.05	0.56
2:R:92:LEU:HD13	2:R:127:GLY:HA2	1.87	0.56
2:U:110:PHE:CE1	2:U:117:VAL:HB	2.40	0.56
2:V:92:LEU:HD13	2:V:127:GLY:HA2	1.87	0.56
2:X:92:LEU:HB2	2:X:128:GLN:HG2	1.86	0.56
1:A:361:LEU:HD21	1:A:372:ILE:O	2.05	0.56
1:D:404:LEU:HA	1:D:419:ASP:OD2	2.05	0.56
1:D:405:ASP:O	1:D:415:ILE:HG23	2.05	0.56
1:G:447:GLN:OE1	1:H:508:GLU:OE2	2.23	0.56
1:G:453:VAL:HG23	1:G:488:ASN:OD1	2.05	0.56
1:I:456:PHE:O	1:I:459:ILE:HG12	2.05	0.56
1:J:343:PHE:N	1:K:470:ASN:N	2.53	0.56
1:J:467:THR:CG2	1:J:476:SER:HB2	2.35	0.56
1:L:511:VAL:O	1:L:514:GLN:HB3	2.05	0.56
2:P:92:LEU:HD13	2:P:127:GLY:HA2	1.87	0.56
2:P:110:PHE:CE1	2:P:117:VAL:HB	2.40	0.56
2:S:110:PHE:CE1	2:S:117:VAL:HB	2.40	0.56
1:B:418:ARG:CD	1:B:481:VAL:HB	2.17	0.56
1:D:260:ILE:C	1:D:261:ILE:HD12	2.31	0.56
1:D:418:ARG:CD	1:D:481:VAL:HB	2.17	0.56
1:F:260:ILE:C	1:F:261:ILE:HD12	2.31	0.56
1:F:347:LYS:CE	2:R:104:GLY:N	2.67	0.56
1:H:490:LEU:HD23	1:H:506:ILE:CD1	2.35	0.56
1:I:260:ILE:C	1:I:261:ILE:HD12	2.31	0.56
1:K:260:ILE:C	1:K:261:ILE:HD12	2.31	0.56
1:K:352:PHE:HB3	1:K:355:VAL:HG12	1.87	0.56
1:A:372:ILE:HA	1:A:413:VAL:HG22	1.87	0.56
1:A:490:LEU:HD23	1:A:506:ILE:CD1	2.35	0.56
1:B:352:PHE:HB3	1:B:355:VAL:HG12	1.87	0.56
1:D:265:LYS:NZ	1:E:245:LEU:CA	2.35	0.56
1:D:467:THR:CG2	1:D:476:SER:HB2	2.35	0.56
1:F:256:GLN:CD	1:G:231:ARG:HD2	2.29	0.56
1:F:404:LEU:HA	1:F:419:ASP:OD2	2.05	0.56
1:G:316:ALA:HB1	1:G:317:PRO:HD2	1.88	0.56
1:G:382:MET:HE1	1:G:384:LEU:HG	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:265:LYS:NZ	1:I:245:LEU:HA	2.17	0.56
1:I:495:THR:HG22	1:I:496:ARG:N	2.21	0.56
1:L:490:LEU:HD23	1:L:506:ILE:CD1	2.35	0.56
2:V:92:LEU:HB2	2:V:128:GLN:HG2	1.86	0.56
2:W:92:LEU:HB2	2:W:128:GLN:HG2	1.86	0.56
2:W:110:PHE:CE1	2:W:117:VAL:HB	2.40	0.56
1:A:487:THR:CG2	1:B:459:ILE:HG22	2.36	0.56
1:B:485:PRO:HG2	1:B:489:THR:OG1	2.05	0.56
1:C:352:PHE:HB3	1:C:355:VAL:HG12	1.87	0.56
1:C:364:LEU:O	1:C:367:GLU:HB2	2.06	0.56
1:C:447:GLN:OE1	1:D:508:GLU:OE2	2.23	0.56
1:D:490:LEU:HD23	1:D:506:ILE:CD1	2.35	0.56
1:F:490:LEU:HD23	1:F:506:ILE:CD1	2.35	0.56
1:H:404:LEU:HA	1:H:419:ASP:OD2	2.05	0.56
1:I:256:GLN:CD	1:J:231:ARG:HD2	2.29	0.56
1:I:316:ALA:HB1	1:I:317:PRO:HD2	1.88	0.56
1:I:490:LEU:HD23	1:I:506:ILE:CD1	2.35	0.56
1:I:511:VAL:O	1:I:514:GLN:HB3	2.05	0.56
1:J:316:ALA:HB1	1:J:317:PRO:HD2	1.88	0.56
1:J:456:PHE:O	1:J:459:ILE:HG12	2.05	0.56
1:K:406:MET:CB	1:L:468:THR:CG2	2.79	0.56
2:U:92:LEU:HD13	2:U:127:GLY:HA2	1.87	0.56
2:X:133:ILE:HD12	2:X:143:LEU:HB3	1.88	0.56
1:A:260:ILE:C	1:A:261:ILE:HD12	2.31	0.56
1:B:260:ILE:C	1:B:261:ILE:HD12	2.31	0.56
1:C:487:THR:CG2	1:D:459:ILE:HG22	2.36	0.56
1:D:364:LEU:O	1:D:367:GLU:HB2	2.06	0.56
1:F:316:ALA:HB1	1:F:317:PRO:HD2	1.88	0.56
1:F:364:LEU:O	1:F:367:GLU:HB2	2.06	0.56
1:F:495:THR:HG22	1:F:496:ARG:N	2.21	0.56
1:G:490:LEU:HD23	1:G:506:ILE:CD1	2.35	0.56
1:H:316:ALA:HB1	1:H:317:PRO:HD2	1.88	0.56
1:H:364:LEU:O	1:H:367:GLU:HB2	2.06	0.56
1:I:485:PRO:HG2	1:I:489:THR:OG1	2.05	0.56
1:J:364:LEU:O	1:J:367:GLU:HB2	2.06	0.56
2:M:92:LEU:HD13	2:M:127:GLY:HA2	1.87	0.56
2:M:111:ILE:HG22	2:M:112:GLU:N	2.19	0.56
2:N:133:ILE:HD12	2:N:143:LEU:HB3	1.88	0.56
2:O:133:ILE:HD12	2:O:143:LEU:HB3	1.88	0.56
2:P:133:ILE:HD12	2:P:143:LEU:HB3	1.88	0.56
2:Q:111:ILE:HG22	2:Q:112:GLU:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:LYS:HZ2	2:M:104:GLY:CA	2.04	0.55
1:A:352:PHE:HB3	1:A:355:VAL:HG12	1.87	0.55
1:A:406:MET:CB	1:B:468:THR:CG2	2.79	0.55
1:A:467:THR:CG2	1:A:476:SER:HB2	2.35	0.55
1:A:485:PRO:HG2	1:A:489:THR:OG1	2.05	0.55
1:B:364:LEU:O	1:B:367:GLU:HB2	2.06	0.55
1:C:481:VAL:HG12	1:C:493:THR:HB	1.89	0.55
1:D:352:PHE:HB3	1:D:355:VAL:HG12	1.87	0.55
1:K:487:THR:CG2	1:L:459:ILE:HG22	2.36	0.55
1:K:511:VAL:O	1:K:514:GLN:HB3	2.05	0.55
2:M:92:LEU:HB2	2:M:128:GLN:HG2	1.86	0.55
2:N:111:ILE:HG22	2:N:112:GLU:N	2.19	0.55
2:U:92:LEU:HB2	2:U:128:GLN:HG2	1.86	0.55
1:B:361:LEU:HD21	1:B:372:ILE:O	2.05	0.55
1:B:487:THR:CG2	1:C:459:ILE:HG22	2.36	0.55
1:B:511:VAL:O	1:B:514:GLN:HB3	2.05	0.55
1:D:372:ILE:HA	1:D:413:VAL:HG22	1.87	0.55
1:E:406:MET:CB	1:F:468:THR:CG2	2.79	0.55
1:E:490:LEU:HD23	1:E:506:ILE:CD1	2.35	0.55
1:F:481:VAL:HG12	1:F:493:THR:HB	1.89	0.55
1:H:382:MET:HE1	1:H:384:LEU:HG	1.88	0.55
1:I:481:VAL:HG12	1:I:493:THR:HB	1.89	0.55
1:J:453:VAL:HG23	1:J:488:ASN:OD1	2.05	0.55
1:J:481:VAL:HG12	1:J:493:THR:HB	1.88	0.55
1:J:511:VAL:O	1:J:514:GLN:HB3	2.05	0.55
1:K:316:ALA:HB1	1:K:317:PRO:HD2	1.88	0.55
1:K:485:PRO:HG2	1:K:489:THR:OG1	2.05	0.55
1:L:364:LEU:O	1:L:367:GLU:HB2	2.06	0.55
2:M:133:ILE:HD12	2:M:143:LEU:HB3	1.88	0.55
1:E:294:LEU:HG	1:F:273:LEU:HD21	1.76	0.55
1:E:453:VAL:HG23	1:E:488:ASN:OD1	2.05	0.55
1:L:473:THR:HG23	1:L:474:LEU:N	2.22	0.55
1:A:364:LEU:O	1:A:367:GLU:HB2	2.06	0.55
1:D:473:THR:HG23	1:D:474:LEU:N	2.22	0.55
1:D:485:PRO:HG2	1:D:489:THR:OG1	2.05	0.55
1:E:352:PHE:HB3	1:E:355:VAL:HG12	1.87	0.55
1:E:364:LEU:O	1:E:367:GLU:HB2	2.06	0.55
1:E:473:THR:HG23	1:E:474:LEU:N	2.22	0.55
1:E:495:THR:HG22	1:E:496:ARG:N	2.21	0.55
1:E:511:VAL:O	1:E:514:GLN:HB3	2.05	0.55
1:F:385:SER:C	1:F:386:LEU:HD12	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:260:ILE:C	1:G:261:ILE:HD12	2.31	0.55
1:G:389:VAL:HG23	1:H:376:ASP:CG	2.28	0.55
1:G:456:PHE:O	1:G:459:ILE:HG12	2.05	0.55
1:H:260:ILE:C	1:H:261:ILE:HD12	2.31	0.55
1:I:496:ARG:HA	1:I:499:ILE:HG22	1.88	0.55
1:K:265:LYS:NZ	1:L:245:LEU:HA	2.17	0.55
1:K:473:THR:HG23	1:K:474:LEU:N	2.22	0.55
1:L:481:VAL:HG12	1:L:493:THR:HB	1.89	0.55
2:R:111:ILE:HG22	2:R:112:GLU:N	2.19	0.55
1:C:453:VAL:HG23	1:C:488:ASN:OD1	2.05	0.55
1:C:467:THR:HG21	1:C:476:SER:HB3	1.89	0.55
1:D:347:LYS:HZ2	2:P:104:GLY:CA	2.08	0.55
1:D:487:THR:CG2	1:E:459:ILE:HG22	2.36	0.55
1:E:257:HIS:HE2	1:F:232:LYS:C	2.14	0.55
1:E:316:ALA:HB1	1:E:317:PRO:HD2	1.88	0.55
1:E:467:THR:HG21	1:E:476:SER:HB3	1.89	0.55
1:F:257:HIS:HE2	1:G:232:LYS:C	2.14	0.55
1:F:447:GLN:OE1	1:G:508:GLU:OE2	2.23	0.55
1:G:257:HIS:HE2	1:H:232:LYS:C	2.14	0.55
1:G:495:THR:HG22	1:G:496:ARG:N	2.21	0.55
1:H:389:VAL:HG23	1:I:376:ASP:CG	2.28	0.55
1:H:487:THR:CG2	1:I:459:ILE:HG22	2.36	0.55
1:I:352:PHE:HB3	1:I:355:VAL:HG12	1.87	0.55
1:J:372:ILE:HA	1:J:413:VAL:HG22	1.87	0.55
2:N:92:LEU:HD13	2:N:127:GLY:HA2	1.87	0.55
1:A:459:ILE:HG22	1:L:487:THR:CG2	2.36	0.55
1:A:467:THR:HG21	1:A:476:SER:HB3	1.89	0.55
1:D:316:ALA:HB1	1:D:317:PRO:HD2	1.88	0.55
1:D:481:VAL:HG12	1:D:493:THR:HB	1.88	0.55
1:G:347:LYS:CE	2:S:104:GLY:N	2.67	0.55
1:G:372:ILE:HA	1:G:413:VAL:HG22	1.87	0.55
1:G:481:VAL:HG12	1:G:493:THR:HB	1.88	0.55
1:I:382:MET:HE1	1:I:384:LEU:HG	1.88	0.55
1:J:495:THR:HG22	1:J:496:ARG:N	2.21	0.55
1:J:496:ARG:HA	1:J:499:ILE:HG22	1.89	0.55
1:K:456:PHE:O	1:K:459:ILE:HG12	2.05	0.55
1:L:260:ILE:C	1:L:261:ILE:HD12	2.31	0.55
1:L:316:ALA:HB1	1:L:317:PRO:HD2	1.88	0.55
2:T:92:LEU:HD13	2:T:127:GLY:HA2	1.87	0.55
1:B:294:LEU:CG	1:C:273:LEU:HD21	2.27	0.55
1:C:260:ILE:C	1:C:261:ILE:HD12	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:257:HIS:HE2	1:I:232:LYS:C	2.14	0.55
1:I:385:SER:C	1:I:386:LEU:HD12	2.32	0.55
1:J:260:ILE:C	1:J:261:ILE:HD12	2.31	0.55
1:J:467:THR:HG21	1:J:476:SER:HB3	1.89	0.55
1:K:343:PHE:N	1:L:470:ASN:N	2.53	0.55
1:K:385:SER:C	1:K:386:LEU:HD12	2.32	0.55
1:A:481:VAL:HG12	1:A:493:THR:HB	1.88	0.55
1:E:260:ILE:C	1:E:261:ILE:HD12	2.31	0.55
1:E:385:SER:C	1:E:386:LEU:HD12	2.32	0.55
1:F:389:VAL:HG23	1:G:376:ASP:CG	2.28	0.55
1:H:372:ILE:HA	1:H:413:VAL:HG22	1.87	0.55
1:H:495:THR:HG22	1:H:496:ARG:N	2.21	0.55
1:I:487:THR:CG2	1:J:459:ILE:HG22	2.36	0.55
1:J:382:MET:HE1	1:J:384:LEU:HG	1.88	0.55
1:L:352:PHE:HB3	1:L:355:VAL:HG12	1.87	0.55
1:L:385:SER:C	1:L:386:LEU:HD12	2.32	0.55
1:L:467:THR:HG21	1:L:476:SER:HB3	1.89	0.55
1:A:231:ARG:HD2	1:L:256:GLN:CD	2.29	0.55
1:A:473:THR:HG23	1:A:474:LEU:N	2.22	0.55
1:C:316:ALA:HB1	1:C:317:PRO:HD2	1.88	0.55
1:C:473:THR:HG23	1:C:474:LEU:N	2.22	0.55
1:D:385:SER:C	1:D:386:LEU:HD12	2.32	0.55
1:D:511:VAL:O	1:D:514:GLN:HB3	2.05	0.55
1:G:385:SER:C	1:G:386:LEU:HD12	2.32	0.55
1:H:385:SER:C	1:H:386:LEU:HD12	2.32	0.55
1:H:406:MET:CB	1:I:468:THR:CG2	2.79	0.55
1:H:467:THR:HG21	1:H:476:SER:HB3	1.89	0.55
1:H:473:THR:HG23	1:H:474:LEU:N	2.22	0.55
1:J:473:THR:HG23	1:J:474:LEU:N	2.22	0.55
1:K:382:MET:HE1	1:K:384:LEU:HG	1.88	0.55
1:B:256:GLN:CD	1:C:231:ARG:HD2	2.29	0.55
1:B:385:SER:C	1:B:386:LEU:HD12	2.32	0.55
1:B:495:THR:HG22	1:B:496:ARG:N	2.21	0.55
1:C:496:ARG:HA	1:C:499:ILE:HG22	1.88	0.55
1:D:415:ILE:HD12	1:D:415:ILE:N	2.22	0.55
1:D:496:ARG:HA	1:D:499:ILE:HG22	1.89	0.55
1:E:481:VAL:HG12	1:E:493:THR:HB	1.88	0.55
1:F:372:ILE:HA	1:F:413:VAL:HG22	1.87	0.55
1:F:473:THR:HG23	1:F:474:LEU:N	2.22	0.55
1:H:496:ARG:HA	1:H:499:ILE:HG22	1.89	0.55
1:I:473:THR:HG23	1:I:474:LEU:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:364:LEU:O	1:K:367:GLU:HB2	2.06	0.55
2:S:92:LEU:HD13	2:S:127:GLY:HA2	1.87	0.55
1:A:316:ALA:HB1	1:A:317:PRO:HD2	1.88	0.54
1:A:385:SER:C	1:A:386:LEU:HD12	2.32	0.54
1:D:256:GLN:CD	1:E:231:ARG:HD2	2.29	0.54
1:D:447:GLN:OE1	1:E:508:GLU:OE2	2.23	0.54
1:E:487:THR:CG2	1:F:459:ILE:HG22	2.36	0.54
1:F:467:THR:HG21	1:F:476:SER:HB3	1.89	0.54
1:G:467:THR:HG21	1:G:476:SER:HB2	1.90	0.54
1:K:496:ARG:HA	1:K:499:ILE:HG22	1.89	0.54
1:L:382:MET:HE1	1:L:384:LEU:HG	1.88	0.54
2:O:92:LEU:HD13	2:O:127:GLY:HA2	1.87	0.54
2:Q:101:LEU:O	2:Q:108:SER:HB2	2.08	0.54
1:A:415:ILE:HD12	1:A:415:ILE:N	2.22	0.54
1:B:316:ALA:HB1	1:B:317:PRO:HD2	1.88	0.54
1:B:415:ILE:HD12	1:B:415:ILE:N	2.22	0.54
1:B:481:VAL:HG12	1:B:493:THR:HB	1.88	0.54
1:C:385:SER:C	1:C:386:LEU:HD12	2.32	0.54
1:F:352:PHE:HB3	1:F:355:VAL:HG12	1.87	0.54
1:F:415:ILE:HD12	1:F:415:ILE:N	2.22	0.54
1:G:265:LYS:NZ	1:H:245:LEU:HA	2.18	0.54
1:G:473:THR:HG23	1:G:474:LEU:N	2.22	0.54
1:I:464:ASN:HB3	1:I:475:ILE:HD13	1.90	0.54
1:J:396:ASP:OD2	1:K:467:THR:CG2	2.41	0.54
1:K:467:THR:HG21	1:K:476:SER:HB3	1.89	0.54
2:N:158:LYS:O	2:N:159:ALA:HB2	2.07	0.54
2:P:101:LEU:O	2:P:108:SER:HB2	2.08	0.54
2:T:158:LYS:O	2:T:159:ALA:HB2	2.07	0.54
1:B:258:ASP:HB2	1:C:282:PHE:CE2	2.43	0.54
1:C:415:ILE:HD12	1:C:415:ILE:N	2.22	0.54
1:D:257:HIS:HE2	1:E:232:LYS:C	2.14	0.54
1:F:464:ASN:HB3	1:F:475:ILE:HD13	1.90	0.54
1:G:487:THR:CG2	1:H:459:ILE:HG22	2.36	0.54
1:H:257:HIS:CD2	1:I:232:LYS:CB	2.89	0.54
1:H:258:ASP:HB2	1:I:282:PHE:CE2	2.43	0.54
1:H:467:THR:HG21	1:H:476:SER:HB2	1.90	0.54
1:K:258:ASP:HB2	1:L:282:PHE:CE2	2.43	0.54
2:M:158:LYS:O	2:M:159:ALA:HB2	2.07	0.54
2:O:101:LEU:O	2:O:108:SER:HB2	2.08	0.54
2:R:101:LEU:O	2:R:108:SER:HB2	2.08	0.54
2:X:101:LEU:O	2:X:108:SER:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:ASN:HB3	1:C:475:ILE:HD13	1.90	0.54
1:E:258:ASP:HB2	1:F:282:PHE:CE2	2.43	0.54
1:E:265:LYS:NZ	1:F:245:LEU:CA	2.35	0.54
1:E:343:PHE:N	1:F:470:ASN:N	2.53	0.54
1:E:447:GLN:OE1	1:F:508:GLU:OE2	2.23	0.54
1:F:467:THR:HG21	1:F:476:SER:HB2	1.90	0.54
1:G:265:LYS:CE	1:H:245:LEU:HB3	2.26	0.54
1:G:364:LEU:O	1:G:367:GLU:HB2	2.06	0.54
1:G:496:ARG:HA	1:G:499:ILE:HG22	1.89	0.54
1:H:482:LEU:HD13	1:H:482:LEU:H	1.73	0.54
2:U:158:LYS:O	2:U:159:ALA:HB2	2.08	0.54
1:A:495:THR:HG22	1:A:496:ARG:N	2.21	0.54
1:E:496:ARG:HA	1:E:499:ILE:HG22	1.89	0.54
1:F:487:THR:CG2	1:G:459:ILE:HG22	2.36	0.54
1:G:228:ILE:HD13	1:G:277:LEU:CD2	2.38	0.54
1:G:467:THR:HG21	1:G:476:SER:HB3	1.89	0.54
1:H:228:ILE:HD13	1:H:277:LEU:CD2	2.38	0.54
1:H:396:ASP:OD2	1:I:467:THR:CG2	2.41	0.54
1:I:228:ILE:HD13	1:I:277:LEU:CD2	2.38	0.54
1:I:257:HIS:HE2	1:J:232:LYS:C	2.14	0.54
1:I:396:ASP:OD2	1:J:467:THR:CG2	2.41	0.54
1:I:467:THR:HG21	1:I:476:SER:HB2	1.90	0.54
1:J:228:ILE:HD13	1:J:277:LEU:CD2	2.38	0.54
1:K:415:ILE:HD12	1:K:415:ILE:N	2.22	0.54
1:L:496:ARG:HA	1:L:499:ILE:HG22	1.88	0.54
2:O:158:LYS:O	2:O:159:ALA:HB2	2.08	0.54
2:S:158:LYS:O	2:S:159:ALA:HB2	2.07	0.54
2:W:101:LEU:O	2:W:108:SER:HB2	2.08	0.54
2:W:158:LYS:O	2:W:159:ALA:HB2	2.07	0.54
1:A:382:MET:HE1	1:A:384:LEU:HG	1.88	0.54
1:B:343:PHE:CD1	1:C:469:GLY:HA3	2.42	0.54
1:B:496:ARG:HA	1:B:499:ILE:HG22	1.89	0.54
1:C:449:LYS:HD3	1:C:449:LYS:N	2.23	0.54
1:D:343:PHE:CD1	1:E:469:GLY:HA3	2.42	0.54
1:E:372:ILE:HA	1:E:413:VAL:HG22	1.87	0.54
1:F:343:PHE:N	1:G:470:ASN:N	2.53	0.54
1:H:449:LYS:HD3	1:H:449:LYS:N	2.23	0.54
1:H:481:VAL:HG12	1:H:493:THR:HB	1.88	0.54
1:I:364:LEU:O	1:I:367:GLU:HB2	2.06	0.54
1:I:415:ILE:HD12	1:I:415:ILE:N	2.22	0.54
1:B:467:THR:HG21	1:B:476:SER:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:THR:HG22	1:C:496:ARG:N	2.21	0.54
1:E:389:VAL:HG23	1:F:376:ASP:CG	2.28	0.54
1:F:228:ILE:HD13	1:F:277:LEU:CD2	2.38	0.54
1:G:449:LYS:HD3	1:G:449:LYS:N	2.23	0.54
1:I:372:ILE:HA	1:I:413:VAL:HG22	1.87	0.54
1:J:258:ASP:HB2	1:K:282:PHE:CE2	2.43	0.54
1:K:228:ILE:HD13	1:K:277:LEU:CD2	2.38	0.54
1:K:481:VAL:HG12	1:K:493:THR:HB	1.88	0.54
1:L:464:ASN:HB3	1:L:475:ILE:HD13	1.90	0.54
1:L:495:THR:HG22	1:L:496:ARG:N	2.21	0.54
2:M:101:LEU:O	2:M:108:SER:HB2	2.08	0.54
2:R:136:ILE:O	2:R:137:THR:HG23	2.08	0.54
2:S:101:LEU:O	2:S:108:SER:HB2	2.08	0.54
2:V:158:LYS:O	2:V:159:ALA:HB2	2.07	0.54
1:A:228:ILE:HD13	1:A:277:LEU:CD2	2.38	0.54
1:A:449:LYS:N	1:A:449:LYS:HD3	2.23	0.54
1:B:467:THR:HG21	1:B:476:SER:HB3	1.89	0.54
1:D:228:ILE:HD13	1:D:277:LEU:CD2	2.38	0.54
1:D:464:ASN:HB3	1:D:475:ILE:HD13	1.90	0.54
1:D:495:THR:HG22	1:D:496:ARG:N	2.21	0.54
1:E:228:ILE:HD13	1:E:277:LEU:CD2	2.38	0.54
1:E:256:GLN:NE2	1:F:231:ARG:CD	2.48	0.54
1:E:347:LYS:HE3	2:Q:104:GLY:CA	2.35	0.54
1:F:343:PHE:CD1	1:G:469:GLY:HA3	2.42	0.54
1:H:347:LYS:CE	2:T:104:GLY:N	2.67	0.54
1:H:415:ILE:HD12	1:H:415:ILE:N	2.22	0.54
1:H:464:ASN:HB3	1:H:475:ILE:HD13	1.90	0.54
1:I:389:VAL:HG23	1:J:376:ASP:CG	2.28	0.54
1:J:415:ILE:HD12	1:J:415:ILE:N	2.22	0.54
1:J:467:THR:HG21	1:J:476:SER:HB2	1.90	0.54
1:J:487:THR:CG2	1:K:459:ILE:HG22	2.36	0.54
1:L:228:ILE:HD13	1:L:277:LEU:CD2	2.38	0.54
1:L:449:LYS:HD3	1:L:449:LYS:N	2.23	0.54
2:N:101:LEU:O	2:N:108:SER:HB2	2.08	0.54
2:Q:136:ILE:O	2:Q:137:THR:HG23	2.08	0.54
2:X:136:ILE:O	2:X:137:THR:HG23	2.08	0.54
1:A:467:THR:HG21	1:A:476:SER:HB2	1.90	0.54
1:B:228:ILE:HD13	1:B:277:LEU:CD2	2.38	0.54
1:B:473:THR:HG23	1:B:474:LEU:N	2.22	0.54
1:C:228:ILE:HD13	1:C:277:LEU:CD2	2.38	0.54
1:F:496:ARG:HA	1:F:499:ILE:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:482:LEU:HD13	1:K:482:LEU:H	1.73	0.54
2:M:136:ILE:O	2:M:137:THR:HG23	2.08	0.54
2:N:136:ILE:O	2:N:137:THR:HG23	2.08	0.54
2:P:158:LYS:O	2:P:159:ALA:HB2	2.07	0.54
2:V:101:LEU:O	2:V:108:SER:HB2	2.08	0.54
2:W:136:ILE:O	2:W:137:THR:HG23	2.08	0.54
1:A:258:ASP:HB2	1:B:282:PHE:CE2	2.43	0.54
1:C:257:HIS:HE2	1:D:232:LYS:C	2.14	0.54
1:D:449:LYS:HD3	1:D:449:LYS:N	2.23	0.54
1:D:467:THR:HG21	1:D:476:SER:HB3	1.89	0.54
1:F:258:ASP:HB2	1:G:282:PHE:CE2	2.43	0.54
1:I:449:LYS:N	1:I:449:LYS:HD3	2.23	0.54
1:J:385:SER:C	1:J:386:LEU:HD12	2.32	0.54
1:J:386:LEU:HD12	1:J:386:LEU:N	2.23	0.54
1:J:482:LEU:HD13	1:J:482:LEU:H	1.73	0.54
1:K:464:ASN:HB3	1:K:475:ILE:HD13	1.90	0.54
2:M:136:ILE:HA	2:M:141:ILE:HG23	1.90	0.54
2:T:101:LEU:O	2:T:108:SER:HB2	2.08	0.54
1:B:372:ILE:HA	1:B:413:VAL:HG22	1.87	0.53
1:B:449:LYS:HD3	1:B:449:LYS:N	2.23	0.53
1:C:467:THR:HG21	1:C:476:SER:HB2	1.90	0.53
1:D:258:ASP:HB2	1:E:282:PHE:CE2	2.43	0.53
1:D:356:GLU:HA	1:D:381:LYS:HA	1.90	0.53
1:E:415:ILE:HD12	1:E:415:ILE:N	2.22	0.53
1:F:449:LYS:N	1:F:449:LYS:HD3	2.23	0.53
1:G:356:GLU:HA	1:G:381:LYS:HA	1.90	0.53
1:G:415:ILE:HD12	1:G:415:ILE:N	2.22	0.53
1:I:386:LEU:HD12	1:I:386:LEU:N	2.23	0.53
1:K:347:LYS:HZ2	2:W:104:GLY:CA	2.04	0.53
1:L:415:ILE:HD12	1:L:415:ILE:N	2.22	0.53
2:N:136:ILE:HA	2:N:141:ILE:HG23	1.90	0.53
2:R:110:PHE:HE1	2:R:117:VAL:HB	1.74	0.53
2:U:110:PHE:HE1	2:U:117:VAL:HB	1.74	0.53
2:X:158:LYS:O	2:X:159:ALA:HB2	2.08	0.53
1:A:496:ARG:HA	1:A:499:ILE:HG22	1.89	0.53
1:C:258:ASP:HB2	1:D:282:PHE:CE2	2.43	0.53
1:E:464:ASN:HB3	1:E:475:ILE:HD13	1.90	0.53
1:F:257:HIS:CD2	1:G:232:LYS:CB	2.89	0.53
1:F:265:LYS:NZ	1:G:245:LEU:HA	2.17	0.53
1:F:356:GLU:HA	1:F:381:LYS:HA	1.90	0.53
1:F:482:LEU:HD13	1:F:482:LEU:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:464:ASN:HB3	1:G:475:ILE:HD13	1.90	0.53
1:H:347:LYS:HZ1	2:T:104:GLY:CA	2.08	0.53
1:H:356:GLU:HA	1:H:381:LYS:HA	1.90	0.53
1:I:361:LEU:HD21	1:I:372:ILE:HB	1.90	0.53
1:J:343:PHE:CD1	1:K:469:GLY:HA3	2.42	0.53
1:J:361:LEU:HD21	1:J:372:ILE:HB	1.90	0.53
1:K:372:ILE:HA	1:K:413:VAL:HG22	1.87	0.53
1:K:495:THR:HG22	1:K:496:ARG:N	2.21	0.53
2:O:136:ILE:HA	2:O:141:ILE:HG23	1.90	0.53
2:O:136:ILE:O	2:O:137:THR:HG23	2.08	0.53
2:Q:110:PHE:HE1	2:Q:117:VAL:HB	1.74	0.53
2:S:136:ILE:O	2:S:137:THR:HG23	2.08	0.53
2:V:136:ILE:O	2:V:137:THR:HG23	2.08	0.53
2:X:136:ILE:HA	2:X:141:ILE:HG23	1.90	0.53
1:A:470:ASN:N	1:L:343:PHE:N	2.53	0.53
1:B:257:HIS:CD2	1:C:232:LYS:CB	2.89	0.53
1:C:386:LEU:HD12	1:C:386:LEU:N	2.23	0.53
1:E:467:THR:HG21	1:E:476:SER:HB2	1.90	0.53
1:F:293:ARG:HH11	1:G:272:THR:HG21	1.64	0.53
1:G:258:ASP:HB2	1:H:282:PHE:CE2	2.43	0.53
1:H:418:ARG:HD3	1:H:474:LEU:HD13	1.90	0.53
2:S:110:PHE:HE1	2:S:117:VAL:HB	1.74	0.53
2:U:136:ILE:O	2:U:137:THR:HG23	2.08	0.53
1:A:447:GLN:C	1:A:448:LEU:HD22	2.34	0.53
1:B:386:LEU:HD12	1:B:386:LEU:N	2.23	0.53
1:C:343:PHE:N	1:D:470:ASN:N	2.53	0.53
1:C:356:GLU:HA	1:C:381:LYS:HA	1.90	0.53
1:C:464:ASN:HA	1:C:502:PHE:HZ	1.74	0.53
1:E:356:GLU:HA	1:E:381:LYS:HA	1.90	0.53
1:G:343:PHE:N	1:H:470:ASN:N	2.53	0.53
1:G:418:ARG:HD3	1:G:474:LEU:HD13	1.90	0.53
1:I:343:PHE:CD1	1:J:469:GLY:HA3	2.42	0.53
1:J:257:HIS:HE2	1:K:232:LYS:C	2.14	0.53
1:J:265:LYS:NZ	1:K:245:LEU:HA	2.18	0.53
1:K:257:HIS:CD2	1:L:232:LYS:CB	2.89	0.53
1:K:449:LYS:HD3	1:K:449:LYS:N	2.23	0.53
1:K:467:THR:HG21	1:K:476:SER:HB2	1.90	0.53
2:R:158:LYS:O	2:R:159:ALA:HB2	2.08	0.53
2:U:101:LEU:O	2:U:108:SER:HB2	2.08	0.53
1:B:464:ASN:HB3	1:B:475:ILE:HD13	1.90	0.53
1:F:386:LEU:HD12	1:F:386:LEU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:361:LEU:HD21	1:G:372:ILE:HB	1.90	0.53
1:G:482:LEU:HD13	1:G:482:LEU:H	1.73	0.53
1:H:343:PHE:CD1	1:I:469:GLY:HA3	2.42	0.53
1:J:464:ASN:HB3	1:J:475:ILE:HD13	1.90	0.53
1:K:386:LEU:HD12	1:K:386:LEU:N	2.23	0.53
1:K:464:ASN:HA	1:K:502:PHE:HZ	1.74	0.53
2:Q:87:LEU:HD12	2:Q:95:MET:HE2	1.90	0.53
2:Q:158:LYS:O	2:Q:159:ALA:HB2	2.07	0.53
1:A:232:LYS:CB	1:L:257:HIS:CD2	2.89	0.53
1:A:282:PHE:CE2	1:L:258:ASP:HB2	2.43	0.53
1:A:386:LEU:HD12	1:A:386:LEU:N	2.23	0.53
1:A:464:ASN:HB3	1:A:475:ILE:HD13	1.90	0.53
1:A:482:LEU:HD13	1:A:482:LEU:H	1.73	0.53
1:B:464:ASN:HA	1:B:502:PHE:HZ	1.74	0.53
1:C:418:ARG:CD	1:C:481:VAL:HB	2.17	0.53
1:I:356:GLU:HA	1:I:381:LYS:HA	1.90	0.53
1:K:447:GLN:C	1:K:448:LEU:HD22	2.34	0.53
1:L:447:GLN:C	1:L:448:LEU:HD22	2.34	0.53
1:L:464:ASN:HA	1:L:502:PHE:HZ	1.74	0.53
1:L:467:THR:HG21	1:L:476:SER:HB2	1.90	0.53
2:P:110:PHE:HE1	2:P:117:VAL:HB	1.74	0.53
2:P:136:ILE:HA	2:P:141:ILE:HG23	1.90	0.53
2:W:110:PHE:HE1	2:W:117:VAL:HB	1.74	0.53
1:B:382:MET:HE1	1:B:384:LEU:HG	1.88	0.53
1:C:294:LEU:HD12	1:D:273:LEU:HD23	1.91	0.53
1:E:386:LEU:HD12	1:E:386:LEU:N	2.23	0.53
1:E:418:ARG:HD3	1:E:474:LEU:HD13	1.90	0.53
1:F:347:LYS:HE3	2:R:104:GLY:CA	2.35	0.53
1:F:361:LEU:HD21	1:F:372:ILE:HB	1.90	0.53
1:G:464:ASN:HA	1:G:502:PHE:HZ	1.74	0.53
1:H:464:ASN:HA	1:H:502:PHE:HZ	1.74	0.53
1:I:294:LEU:HD12	1:J:273:LEU:HD23	1.91	0.53
1:I:467:THR:HG21	1:I:476:SER:HB3	1.89	0.53
1:I:482:LEU:HD13	1:I:482:LEU:H	1.73	0.53
1:K:361:LEU:HD21	1:K:372:ILE:HB	1.91	0.53
2:P:136:ILE:O	2:P:137:THR:HG23	2.08	0.53
1:B:257:HIS:HE2	1:C:232:LYS:C	2.14	0.53
1:B:447:GLN:C	1:B:448:LEU:HD22	2.34	0.53
1:D:343:PHE:N	1:E:470:ASN:N	2.53	0.53
1:D:386:LEU:HD12	1:D:386:LEU:N	2.23	0.53
1:D:425:ASP:HA	1:D:428:PHE:HD2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:LEU:HD21	1:H:372:ILE:HB	1.91	0.53
1:I:258:ASP:HB2	1:J:282:PHE:CE2	2.43	0.53
1:I:347:LYS:CE	2:U:104:GLY:N	2.67	0.53
1:I:418:ARG:HD3	1:I:474:LEU:HD13	1.90	0.53
1:K:343:PHE:CD1	1:L:469:GLY:HA3	2.42	0.53
2:O:87:LEU:HD12	2:O:95:MET:HE2	1.90	0.53
2:Q:136:ILE:HA	2:Q:141:ILE:HG23	1.90	0.53
2:T:146:LEU:HA	2:T:156:SER:HA	1.91	0.53
2:X:110:PHE:HE1	2:X:117:VAL:HB	1.74	0.53
1:A:273:LEU:HD23	1:L:294:LEU:HD12	1.91	0.53
1:A:355:VAL:HG22	1:A:356:GLU:N	2.24	0.53
1:B:356:GLU:HA	1:B:381:LYS:HA	1.90	0.53
1:D:447:GLN:C	1:D:448:LEU:HD22	2.34	0.53
1:E:449:LYS:HD3	1:E:449:LYS:N	2.23	0.53
1:F:418:ARG:HD3	1:F:474:LEU:HD13	1.90	0.53
1:I:464:ASN:HA	1:I:502:PHE:HZ	1.74	0.53
1:J:447:GLN:C	1:J:448:LEU:HD22	2.34	0.53
1:K:480:SER:HA	1:K:494:ASP:HB3	1.91	0.53
2:P:145:GLU:C	2:P:146:LEU:HD12	2.34	0.53
2:T:102:LYS:HB3	2:T:107:VAL:HA	1.91	0.53
2:W:87:LEU:HD12	2:W:95:MET:HE2	1.90	0.53
2:X:87:LEU:HD12	2:X:95:MET:HE2	1.90	0.53
1:A:389:VAL:HG12	1:A:390:PRO:O	2.09	0.53
1:B:294:LEU:HD12	1:C:273:LEU:HD23	1.91	0.53
1:C:257:HIS:CD2	1:D:232:LYS:CB	2.89	0.53
1:C:447:GLN:C	1:C:448:LEU:HD22	2.34	0.53
1:D:257:HIS:CD2	1:E:232:LYS:CB	2.89	0.53
1:F:294:LEU:HD12	1:G:273:LEU:HD23	1.91	0.53
1:H:355:VAL:HG22	1:H:356:GLU:N	2.24	0.53
1:H:386:LEU:HD12	1:H:386:LEU:N	2.23	0.53
1:H:389:VAL:HG12	1:H:390:PRO:O	2.09	0.53
1:I:447:GLN:C	1:I:448:LEU:HD22	2.34	0.53
1:J:498:VAL:CG1	1:J:502:PHE:HE1	2.22	0.53
1:L:389:VAL:HG12	1:L:390:PRO:O	2.09	0.53
1:L:418:ARG:HD3	1:L:474:LEU:HD13	1.90	0.53
2:N:110:PHE:HE1	2:N:117:VAL:HB	1.74	0.53
2:P:87:LEU:HD12	2:P:95:MET:HE2	1.90	0.53
2:R:87:LEU:HD12	2:R:95:MET:HE2	1.90	0.53
2:S:146:LEU:HA	2:S:156:SER:HA	1.91	0.53
2:U:102:LYS:HB3	2:U:107:VAL:HA	1.91	0.53
2:U:146:LEU:HA	2:U:156:SER:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:102:LYS:HB3	2:V:107:VAL:HA	1.91	0.53
2:W:136:ILE:HA	2:W:141:ILE:HG23	1.90	0.53
1:A:498:VAL:CG1	1:A:502:PHE:HE1	2.22	0.52
1:D:467:THR:HG21	1:D:476:SER:HB2	1.90	0.52
1:E:482:LEU:HD13	1:E:482:LEU:H	1.73	0.52
1:F:265:LYS:NZ	1:G:245:LEU:CA	2.35	0.52
1:F:355:VAL:HG22	1:F:356:GLU:N	2.24	0.52
1:G:355:VAL:HG22	1:G:356:GLU:N	2.24	0.52
1:G:425:ASP:HA	1:G:428:PHE:HD2	1.74	0.52
1:G:503:ARG:HG2	1:G:507:ASP:OD2	2.10	0.52
1:I:389:VAL:HG12	1:I:390:PRO:O	2.09	0.52
1:J:449:LYS:HD3	1:J:449:LYS:N	2.23	0.52
1:K:498:VAL:CG1	1:K:502:PHE:HE1	2.22	0.52
1:L:498:VAL:CG1	1:L:502:PHE:HE1	2.22	0.52
2:T:136:ILE:O	2:T:137:THR:HG23	2.08	0.52
1:B:265:LYS:CE	1:C:245:LEU:HB3	2.25	0.52
1:B:389:VAL:HG12	1:B:390:PRO:O	2.09	0.52
1:B:441:LEU:HG	1:B:495:THR:HA	1.92	0.52
1:C:389:VAL:HG12	1:C:390:PRO:O	2.09	0.52
1:D:418:ARG:HD3	1:D:474:LEU:HD13	1.90	0.52
1:E:265:LYS:NZ	1:F:245:LEU:HA	2.17	0.52
1:E:503:ARG:HG2	1:E:507:ASP:OD2	2.10	0.52
1:F:503:ARG:HG2	1:F:507:ASP:OD2	2.10	0.52
1:G:386:LEU:HD12	1:G:386:LEU:N	2.23	0.52
1:H:503:ARG:HG2	1:H:507:ASP:OD2	2.10	0.52
1:I:441:LEU:HG	1:I:495:THR:HA	1.92	0.52
1:I:498:VAL:CG1	1:I:502:PHE:HE1	2.22	0.52
1:K:257:HIS:HE2	1:L:232:LYS:C	2.14	0.52
1:L:386:LEU:HD12	1:L:386:LEU:N	2.23	0.52
1:L:480:SER:HA	1:L:494:ASP:HB3	1.91	0.52
2:M:145:GLU:C	2:M:146:LEU:HD12	2.34	0.52
2:N:145:GLU:C	2:N:146:LEU:HD12	2.34	0.52
2:O:110:PHE:HE1	2:O:117:VAL:HB	1.74	0.52
2:Q:145:GLU:C	2:Q:146:LEU:HD12	2.34	0.52
2:R:136:ILE:HA	2:R:141:ILE:HG23	1.90	0.52
1:A:441:LEU:HG	1:A:495:THR:HA	1.92	0.52
1:B:480:SER:HA	1:B:494:ASP:HB3	1.91	0.52
1:C:355:VAL:HG22	1:C:356:GLU:N	2.24	0.52
1:D:389:VAL:HG12	1:D:390:PRO:O	2.09	0.52
1:D:503:ARG:HG2	1:D:507:ASP:OD2	2.10	0.52
1:F:464:ASN:HA	1:F:502:PHE:HZ	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:356:GLU:HA	1:J:381:LYS:HA	1.90	0.52
1:L:361:LEU:HD21	1:L:372:ILE:HB	1.90	0.52
2:N:87:LEU:HD12	2:N:95:MET:HE2	1.90	0.52
2:O:145:GLU:C	2:O:146:LEU:HD12	2.34	0.52
2:P:136:ILE:HG22	2:P:137:THR:N	2.25	0.52
2:S:136:ILE:HG22	2:S:137:THR:N	2.25	0.52
2:S:145:GLU:C	2:S:146:LEU:HD12	2.34	0.52
2:T:136:ILE:HG22	2:T:137:THR:N	2.25	0.52
2:U:136:ILE:HG22	2:U:137:THR:N	2.25	0.52
2:V:110:PHE:HE1	2:V:117:VAL:HB	1.74	0.52
2:V:146:LEU:HA	2:V:156:SER:HA	1.91	0.52
1:A:469:GLY:HA3	1:L:343:PHE:CD1	2.42	0.52
1:D:389:VAL:HG23	1:E:376:ASP:CG	2.28	0.52
1:D:406:MET:CB	1:E:468:THR:CG2	2.79	0.52
1:E:361:LEU:HD21	1:E:372:ILE:HB	1.91	0.52
1:G:389:VAL:HG12	1:G:390:PRO:O	2.09	0.52
1:H:343:PHE:N	1:I:470:ASN:N	2.53	0.52
1:H:441:LEU:HG	1:H:495:THR:HA	1.92	0.52
1:I:503:ARG:HG2	1:I:507:ASP:OD2	2.10	0.52
1:J:294:LEU:HD12	1:K:273:LEU:HD23	1.91	0.52
1:J:389:VAL:HG23	1:K:376:ASP:CG	2.28	0.52
1:J:464:ASN:HA	1:J:502:PHE:HZ	1.74	0.52
1:K:355:VAL:HG22	1:K:356:GLU:N	2.24	0.52
1:K:389:VAL:HG12	1:K:390:PRO:O	2.09	0.52
1:K:482:LEU:HB2	1:K:490:LEU:HD11	1.92	0.52
1:L:347:LYS:CE	2:X:104:GLY:N	2.67	0.52
2:M:87:LEU:HD12	2:M:95:MET:HE2	1.90	0.52
2:N:146:LEU:HA	2:N:156:SER:HA	1.91	0.52
2:R:136:ILE:HG22	2:R:137:THR:N	2.25	0.52
2:V:136:ILE:HG22	2:V:137:THR:N	2.25	0.52
2:W:136:ILE:HG22	2:W:137:THR:N	2.25	0.52
1:A:356:GLU:HA	1:A:381:LYS:HA	1.90	0.52
1:B:418:ARG:HD3	1:B:474:LEU:HD13	1.90	0.52
1:C:503:ARG:HG2	1:C:507:ASP:OD2	2.10	0.52
1:E:355:VAL:HG22	1:E:356:GLU:N	2.24	0.52
1:F:425:ASP:HA	1:F:428:PHE:HD2	1.74	0.52
1:H:457:ARG:HD2	1:H:484:ASP:OD2	2.10	0.52
1:H:498:VAL:CG1	1:H:502:PHE:HE1	2.22	0.52
1:J:355:VAL:HG22	1:J:356:GLU:N	2.24	0.52
1:J:418:ARG:HD3	1:J:474:LEU:HD13	1.90	0.52
1:J:482:LEU:HB2	1:J:490:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:503:ARG:HG2	1:J:507:ASP:OD2	2.10	0.52
2:Q:136:ILE:HG22	2:Q:137:THR:N	2.25	0.52
2:V:87:LEU:HD12	2:V:95:MET:HE2	1.90	0.52
2:V:136:ILE:HA	2:V:141:ILE:HG23	1.90	0.52
2:W:102:LYS:HB3	2:W:107:VAL:HA	1.91	0.52
1:B:503:ARG:HG2	1:B:507:ASP:OD2	2.10	0.52
1:C:482:LEU:HD13	1:C:482:LEU:H	1.73	0.52
1:C:482:LEU:HB2	1:C:490:LEU:HD11	1.92	0.52
1:D:482:LEU:HB2	1:D:490:LEU:HD11	1.92	0.52
1:E:294:LEU:HD12	1:F:273:LEU:HD23	1.91	0.52
1:F:457:ARG:HD2	1:F:484:ASP:OD2	2.10	0.52
1:G:294:LEU:HD12	1:H:273:LEU:HD23	1.91	0.52
1:G:447:GLN:C	1:G:448:LEU:HD22	2.34	0.52
1:G:457:ARG:HD2	1:G:484:ASP:OD2	2.10	0.52
1:H:294:LEU:HD12	1:I:273:LEU:HD23	1.91	0.52
1:J:347:LYS:CE	2:V:104:GLY:N	2.67	0.52
1:J:441:LEU:HG	1:J:495:THR:HA	1.92	0.52
1:K:294:LEU:HD12	1:L:273:LEU:HD23	1.91	0.52
2:M:136:ILE:HG22	2:M:137:THR:N	2.25	0.52
2:M:146:LEU:HA	2:M:156:SER:HA	1.91	0.52
2:T:136:ILE:HA	2:T:141:ILE:HG23	1.90	0.52
2:X:102:LYS:HB3	2:X:107:VAL:HA	1.91	0.52
1:A:447:GLN:CG	1:B:508:GLU:CD	2.47	0.52
1:A:503:ARG:HG2	1:A:507:ASP:OD2	2.10	0.52
1:C:418:ARG:HD3	1:C:474:LEU:HD13	1.90	0.52
1:C:480:SER:HA	1:C:494:ASP:HB3	1.91	0.52
1:D:464:ASN:HA	1:D:502:PHE:HZ	1.74	0.52
1:D:482:LEU:HD13	1:D:482:LEU:H	1.73	0.52
1:E:407:ARG:HH21	1:E:409:GLN:HG3	1.75	0.52
1:E:416:ALA:CB	1:E:417:PRO:HD2	2.38	0.52
1:F:447:GLN:C	1:F:448:LEU:HD22	2.34	0.52
1:I:457:ARG:HD2	1:I:484:ASP:OD2	2.10	0.52
1:K:244:ALA:HB3	1:K:318:GLY:O	2.10	0.52
1:K:503:ARG:HG2	1:K:507:ASP:OD2	2.10	0.52
1:L:416:ALA:CB	1:L:417:PRO:HD2	2.38	0.52
2:N:136:ILE:HG22	2:N:137:THR:N	2.25	0.52
2:O:146:LEU:HA	2:O:156:SER:HA	1.91	0.52
2:R:146:LEU:HA	2:R:156:SER:HA	1.91	0.52
2:T:145:GLU:C	2:T:146:LEU:HD12	2.34	0.52
1:A:464:ASN:HA	1:A:502:PHE:HZ	1.74	0.52
1:B:244:ALA:HB3	1:B:318:GLY:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:LYS:HE3	2:N:104:GLY:CA	2.35	0.52
1:C:441:LEU:HG	1:C:495:THR:HA	1.92	0.52
1:D:244:ALA:HB3	1:D:318:GLY:O	2.10	0.52
1:D:355:VAL:HG22	1:D:356:GLU:N	2.24	0.52
1:E:498:VAL:CG1	1:E:502:PHE:HE1	2.22	0.52
1:F:357:ILE:HD12	1:F:379:ASN:HB3	1.92	0.52
1:I:355:VAL:HG22	1:I:356:GLU:N	2.24	0.52
1:K:294:LEU:HD12	1:L:273:LEU:CD2	2.40	0.52
1:K:347:LYS:CE	2:W:104:GLY:N	2.67	0.52
1:L:357:ILE:HD12	1:L:379:ASN:HB3	1.92	0.52
1:L:503:ARG:HG2	1:L:507:ASP:OD2	2.10	0.52
2:M:102:LYS:HB3	2:M:107:VAL:HA	1.91	0.52
2:S:136:ILE:HA	2:S:141:ILE:HG23	1.90	0.52
1:A:257:HIS:HE2	1:B:232:LYS:C	2.14	0.52
1:A:294:LEU:HD12	1:B:273:LEU:HD23	1.91	0.52
1:A:418:ARG:HD3	1:A:474:LEU:HD13	1.90	0.52
1:C:244:ALA:HB3	1:C:318:GLY:O	2.10	0.52
1:C:347:LYS:HE3	2:O:104:GLY:CA	2.35	0.52
1:D:361:LEU:HD21	1:D:372:ILE:HB	1.90	0.52
1:E:357:ILE:HD12	1:E:379:ASN:HB3	1.92	0.52
1:E:425:ASP:HA	1:E:428:PHE:HD2	1.74	0.52
1:E:464:ASN:HA	1:E:502:PHE:HZ	1.74	0.52
1:I:482:LEU:HB2	1:I:490:LEU:HD11	1.92	0.52
1:K:356:GLU:HA	1:K:381:LYS:HA	1.90	0.52
1:K:357:ILE:HD12	1:K:379:ASN:HB3	1.92	0.52
1:L:441:LEU:HG	1:L:495:THR:HA	1.92	0.52
2:Q:146:LEU:HA	2:Q:156:SER:HA	1.91	0.52
2:S:87:LEU:HD12	2:S:95:MET:HE2	1.90	0.52
2:U:136:ILE:HA	2:U:141:ILE:HG23	1.90	0.52
1:A:361:LEU:HD21	1:A:372:ILE:HB	1.90	0.52
1:B:498:VAL:CG1	1:B:502:PHE:HE1	2.22	0.52
1:C:498:VAL:CG1	1:C:502:PHE:HE1	2.22	0.52
1:D:294:LEU:HD12	1:E:273:LEU:HD23	1.91	0.52
1:E:265:LYS:CE	1:F:245:LEU:HB3	2.25	0.52
1:E:294:LEU:HD12	1:F:273:LEU:CD2	2.40	0.52
1:G:407:ARG:HH21	1:G:409:GLN:HG3	1.75	0.52
1:H:480:SER:HA	1:H:494:ASP:HB3	1.91	0.52
1:I:480:SER:HA	1:I:494:ASP:HB3	1.91	0.52
1:J:457:ARG:HD2	1:J:484:ASP:OD2	2.10	0.52
1:J:480:SER:HA	1:J:494:ASP:HB3	1.91	0.52
1:L:355:VAL:HG22	1:L:356:GLU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:356:GLU:HA	1:L:381:LYS:HA	1.90	0.52
1:L:482:LEU:HB2	1:L:490:LEU:HD11	1.92	0.52
2:T:110:PHE:HE1	2:T:117:VAL:HB	1.74	0.52
2:V:145:GLU:C	2:V:146:LEU:HD12	2.34	0.52
1:A:244:ALA:HB3	1:A:318:GLY:O	2.10	0.51
1:A:273:LEU:CD2	1:L:294:LEU:HD12	2.41	0.51
1:A:343:PHE:N	1:B:470:ASN:N	2.53	0.51
1:B:294:LEU:HD12	1:C:273:LEU:CD2	2.40	0.51
1:B:343:PHE:N	1:C:470:ASN:N	2.53	0.51
1:C:372:ILE:HG23	1:C:413:VAL:HG23	1.92	0.51
1:C:382:MET:HE1	1:C:384:LEU:HG	1.88	0.51
1:D:294:LEU:CG	1:E:273:LEU:HD21	2.27	0.51
1:D:372:ILE:HG23	1:D:413:VAL:HG23	1.92	0.51
1:E:482:LEU:HB2	1:E:490:LEU:HD11	1.92	0.51
1:F:389:VAL:HG12	1:F:390:PRO:O	2.09	0.51
1:G:357:ILE:HD12	1:G:379:ASN:HB3	1.92	0.51
1:G:498:VAL:CG1	1:G:502:PHE:HE1	2.22	0.51
1:H:447:GLN:C	1:H:448:LEU:HD22	2.34	0.51
1:I:347:LYS:HZ1	2:U:104:GLY:CA	2.06	0.51
1:J:244:ALA:HB3	1:J:318:GLY:O	2.10	0.51
1:J:294:LEU:HD12	1:K:273:LEU:CD2	2.40	0.51
1:K:418:ARG:HD3	1:K:474:LEU:HD13	1.90	0.51
2:M:110:PHE:HE1	2:M:117:VAL:HB	1.74	0.51
2:M:146:LEU:HG	2:M:156:SER:HA	1.92	0.51
2:N:102:LYS:HB3	2:N:107:VAL:HA	1.91	0.51
2:P:146:LEU:HA	2:P:156:SER:HA	1.91	0.51
2:R:145:GLU:C	2:R:146:LEU:HD12	2.34	0.51
2:W:136:ILE:N	2:W:136:ILE:HD12	2.26	0.51
2:X:146:LEU:HG	2:X:156:SER:HA	1.92	0.51
1:A:232:LYS:C	1:L:257:HIS:HE2	2.14	0.51
1:A:294:LEU:HD12	1:B:273:LEU:CD2	2.40	0.51
1:B:418:ARG:HD3	1:B:474:LEU:CD1	2.41	0.51
1:D:357:ILE:HD12	1:D:379:ASN:HB3	1.92	0.51
1:D:498:VAL:CG1	1:D:502:PHE:HE1	2.22	0.51
1:E:389:VAL:HG12	1:E:390:PRO:O	2.09	0.51
1:F:416:ALA:CB	1:F:417:PRO:HD2	2.38	0.51
1:G:294:LEU:HD12	1:H:273:LEU:CD2	2.40	0.51
1:H:407:ARG:HH21	1:H:409:GLN:HG3	1.75	0.51
1:I:244:ALA:HB3	1:I:318:GLY:O	2.10	0.51
1:J:357:ILE:HD12	1:J:379:ASN:HB3	1.92	0.51
1:J:389:VAL:HG12	1:J:390:PRO:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:418:ARG:HD3	1:L:474:LEU:CD1	2.41	0.51
2:U:87:LEU:HD12	2:U:95:MET:HE2	1.90	0.51
2:V:146:LEU:HG	2:V:156:SER:HA	1.92	0.51
2:W:145:GLU:C	2:W:146:LEU:HD12	2.34	0.51
2:W:146:LEU:HA	2:W:156:SER:HA	1.91	0.51
2:X:145:GLU:C	2:X:146:LEU:HD12	2.34	0.51
1:A:357:ILE:HD12	1:A:379:ASN:HB3	1.92	0.51
1:B:352:PHE:CG	1:B:360:ILE:HG22	2.45	0.51
1:B:372:ILE:HG23	1:B:413:VAL:HG23	1.93	0.51
1:B:482:LEU:HB2	1:B:490:LEU:HD11	1.92	0.51
1:C:361:LEU:HD21	1:C:372:ILE:HB	1.90	0.51
1:D:441:LEU:HG	1:D:495:THR:HA	1.92	0.51
1:E:447:GLN:C	1:E:448:LEU:HD22	2.34	0.51
1:E:457:ARG:HD2	1:E:484:ASP:OD2	2.10	0.51
1:F:480:SER:HA	1:F:494:ASP:HB3	1.91	0.51
1:F:498:VAL:CG1	1:F:502:PHE:HE1	2.22	0.51
1:I:357:ILE:HD12	1:I:379:ASN:HB3	1.92	0.51
2:N:136:ILE:HD12	2:N:136:ILE:N	2.26	0.51
2:U:136:ILE:HD12	2:U:136:ILE:N	2.26	0.51
2:X:136:ILE:HG22	2:X:137:THR:N	2.25	0.51
1:B:361:LEU:HD21	1:B:372:ILE:HB	1.91	0.51
1:C:357:ILE:HD12	1:C:379:ASN:HB3	1.92	0.51
1:E:372:ILE:HG23	1:E:413:VAL:HG23	1.93	0.51
1:G:441:LEU:HG	1:G:495:THR:HA	1.92	0.51
1:H:294:LEU:HD12	1:I:273:LEU:CD2	2.40	0.51
1:H:482:LEU:HB2	1:H:490:LEU:HD11	1.92	0.51
1:L:244:ALA:HB3	1:L:318:GLY:O	2.10	0.51
1:L:372:ILE:HA	1:L:413:VAL:HG22	1.87	0.51
2:S:102:LYS:HB3	2:S:107:VAL:HA	1.91	0.51
2:U:145:GLU:C	2:U:146:LEU:HD12	2.34	0.51
2:V:136:ILE:HD12	2:V:136:ILE:N	2.26	0.51
2:X:146:LEU:HA	2:X:156:SER:HA	1.91	0.51
1:A:352:PHE:CG	1:A:360:ILE:HG22	2.45	0.51
1:A:480:SER:HA	1:A:494:ASP:HB3	1.91	0.51
1:B:357:ILE:HD12	1:B:379:ASN:HB3	1.92	0.51
1:B:396:ASP:OD1	1:C:467:THR:HG21	1.67	0.51
1:D:407:ARG:HH21	1:D:409:GLN:HG3	1.75	0.51
1:E:441:LEU:HG	1:E:495:THR:HA	1.92	0.51
1:G:367:GLU:O	1:G:368:SER:HB3	2.11	0.51
1:H:352:PHE:CG	1:H:360:ILE:HG22	2.45	0.51
1:J:257:HIS:CD2	1:K:232:LYS:CB	2.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:87:LEU:HD12	2:T:95:MET:HE2	1.90	0.51
2:U:146:LEU:HG	2:U:156:SER:HA	1.92	0.51
2:W:146:LEU:HG	2:W:156:SER:HA	1.92	0.51
1:B:355:VAL:HG22	1:B:356:GLU:N	2.24	0.51
1:C:294:LEU:HD12	1:D:273:LEU:CD2	2.41	0.51
1:C:457:ARG:HD2	1:C:484:ASP:OD2	2.10	0.51
1:E:418:ARG:HD3	1:E:474:LEU:CD1	2.41	0.51
1:F:244:ALA:HB3	1:F:318:GLY:O	2.10	0.51
1:G:352:PHE:CG	1:G:360:ILE:HG22	2.45	0.51
1:H:357:ILE:HD12	1:H:379:ASN:HB3	1.92	0.51
1:K:441:LEU:HG	1:K:495:THR:HA	1.92	0.51
1:K:457:ARG:HD2	1:K:484:ASP:OD2	2.10	0.51
2:M:143:LEU:O	2:M:158:LYS:HG3	2.11	0.51
2:O:102:LYS:HB3	2:O:107:VAL:HA	1.91	0.51
2:O:136:ILE:N	2:O:136:ILE:HD12	2.26	0.51
2:P:136:ILE:HD12	2:P:136:ILE:N	2.26	0.51
2:P:143:LEU:O	2:P:158:LYS:HG3	2.11	0.51
2:T:136:ILE:N	2:T:136:ILE:HD12	2.26	0.51
1:A:343:PHE:CD1	1:B:469:GLY:HA3	2.42	0.51
1:A:372:ILE:HG23	1:A:413:VAL:HG23	1.92	0.51
1:B:367:GLU:O	1:B:368:SER:HB3	2.11	0.51
1:B:482:LEU:HD13	1:B:482:LEU:H	1.73	0.51
1:C:352:PHE:CG	1:C:360:ILE:HG22	2.45	0.51
1:E:480:SER:HA	1:E:494:ASP:HB3	1.91	0.51
1:F:372:ILE:HG23	1:F:413:VAL:HG23	1.92	0.51
1:G:480:SER:HA	1:G:494:ASP:HB3	1.91	0.51
1:K:416:ALA:CB	1:K:417:PRO:HD2	2.38	0.51
2:N:146:LEU:HG	2:N:156:SER:HA	1.92	0.51
2:O:136:ILE:HG22	2:O:137:THR:N	2.25	0.51
1:C:418:ARG:HD3	1:C:474:LEU:CD1	2.41	0.51
1:D:294:LEU:HD12	1:E:273:LEU:CD2	2.40	0.51
1:D:347:LYS:HE3	2:P:104:GLY:CA	2.35	0.51
1:D:367:GLU:O	1:D:368:SER:HB3	2.11	0.51
1:D:418:ARG:HD3	1:D:474:LEU:CD1	2.41	0.51
1:E:244:ALA:HB3	1:E:318:GLY:O	2.10	0.51
1:F:352:PHE:CG	1:F:360:ILE:HG22	2.45	0.51
1:G:265:LYS:NZ	1:H:245:LEU:CA	2.35	0.51
1:I:257:HIS:CD2	1:J:232:LYS:CB	2.89	0.51
1:I:352:PHE:CG	1:I:360:ILE:HG22	2.45	0.51
1:I:367:GLU:O	1:I:368:SER:HB3	2.11	0.51
1:J:344:THR:HG23	1:J:344:THR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:ARG:HH21	1:K:409:GLN:HG3	1.75	0.51
1:L:407:ARG:HH21	1:L:409:GLN:HG3	1.75	0.51
2:M:136:ILE:HD12	2:M:136:ILE:N	2.26	0.51
2:X:91:SER:O	2:X:95:MET:HG3	2.11	0.51
1:B:407:ARG:HH21	1:B:409:GLN:HG3	1.75	0.51
1:D:457:ARG:HD2	1:D:484:ASP:OD2	2.10	0.51
1:F:482:LEU:HB2	1:F:490:LEU:HD11	1.92	0.51
1:G:244:ALA:HB3	1:G:318:GLY:O	2.10	0.51
1:G:482:LEU:HB2	1:G:490:LEU:HD11	1.92	0.51
1:I:294:LEU:CG	1:J:273:LEU:HD21	2.27	0.51
1:I:294:LEU:HD12	1:J:273:LEU:CD2	2.41	0.51
1:J:418:ARG:HD3	1:J:474:LEU:CD1	2.41	0.51
1:K:344:THR:HG23	1:K:344:THR:O	2.11	0.51
2:O:148:GLU:O	2:O:149:ASP:HB2	2.11	0.51
2:P:102:LYS:HB3	2:P:107:VAL:HA	1.91	0.51
2:W:91:SER:O	2:W:95:MET:HG3	2.11	0.51
2:W:143:LEU:O	2:W:158:LYS:HG3	2.11	0.51
2:W:148:GLU:O	2:W:149:ASP:HB2	2.11	0.51
2:X:162:LEU:O	2:X:162:LEU:HG	2.11	0.51
1:A:457:ARG:HD2	1:A:484:ASP:OD2	2.10	0.51
1:B:347:LYS:HZ2	2:N:104:GLY:CA	2.11	0.51
1:D:416:ALA:CB	1:D:417:PRO:HD2	2.38	0.51
1:E:352:PHE:CG	1:E:360:ILE:HG22	2.45	0.51
1:E:367:GLU:O	1:E:368:SER:HB3	2.11	0.51
1:F:441:LEU:HG	1:F:495:THR:HA	1.92	0.51
1:H:244:ALA:HB3	1:H:318:GLY:O	2.10	0.51
1:I:256:GLN:OE1	1:J:230:PHE:O	2.30	0.51
1:I:416:ALA:CB	1:I:417:PRO:HD2	2.38	0.51
1:J:407:ARG:HH21	1:J:409:GLN:HG3	1.75	0.51
1:L:352:PHE:CG	1:L:360:ILE:HG22	2.45	0.51
2:N:143:LEU:O	2:N:158:LYS:HG3	2.11	0.51
2:Q:136:ILE:N	2:Q:136:ILE:HD12	2.26	0.51
2:R:124:ASN:O	2:R:132:ARG:HA	2.11	0.51
1:A:230:PHE:O	1:L:256:GLN:OE1	2.30	0.50
1:A:257:HIS:CD2	1:B:232:LYS:CB	2.89	0.50
1:B:457:ARG:HD2	1:B:484:ASP:OD2	2.10	0.50
1:I:344:THR:HG23	1:I:344:THR:O	2.11	0.50
1:J:256:GLN:OE1	1:K:230:PHE:O	2.30	0.50
1:K:256:GLN:OE1	1:L:230:PHE:O	2.30	0.50
1:K:389:VAL:HG23	1:L:376:ASP:CG	2.28	0.50
1:K:418:ARG:HD3	1:K:474:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:372:ILE:HG23	1:L:413:VAL:HG23	1.92	0.50
2:M:124:ASN:O	2:M:132:ARG:HA	2.11	0.50
2:N:162:LEU:HG	2:N:162:LEU:O	2.11	0.50
2:O:143:LEU:O	2:O:158:LYS:HG3	2.11	0.50
2:W:96:ARG:O	2:W:111:ILE:HG23	2.12	0.50
1:A:407:ARG:HH21	1:A:409:GLN:HG3	1.75	0.50
1:C:343:PHE:CD1	1:D:469:GLY:HA3	2.42	0.50
1:G:372:ILE:HG23	1:G:413:VAL:HG23	1.92	0.50
1:G:448:LEU:HD22	1:G:448:LEU:N	2.26	0.50
1:H:256:GLN:OE1	1:I:230:PHE:O	2.30	0.50
1:L:457:ARG:HD2	1:L:484:ASP:OD2	2.10	0.50
2:O:124:ASN:O	2:O:132:ARG:HA	2.11	0.50
2:P:148:GLU:O	2:P:149:ASP:HB2	2.11	0.50
2:Q:102:LYS:HB3	2:Q:107:VAL:HA	1.91	0.50
2:T:124:ASN:O	2:T:132:ARG:HA	2.12	0.50
2:T:143:LEU:O	2:T:158:LYS:HG3	2.11	0.50
2:V:148:GLU:O	2:V:149:ASP:HB2	2.11	0.50
2:V:162:LEU:HG	2:V:162:LEU:O	2.11	0.50
2:X:96:ARG:O	2:X:111:ILE:HG23	2.12	0.50
2:X:136:ILE:HD12	2:X:136:ILE:N	2.26	0.50
2:X:148:GLU:O	2:X:149:ASP:HB2	2.11	0.50
1:A:256:GLN:OE1	1:B:230:PHE:O	2.30	0.50
1:E:257:HIS:CD2	1:F:232:LYS:CB	2.89	0.50
1:F:367:GLU:O	1:F:368:SER:HB3	2.11	0.50
1:F:407:ARG:HH21	1:F:409:GLN:HG3	1.75	0.50
1:H:448:LEU:HD22	1:H:448:LEU:N	2.26	0.50
1:J:228:ILE:HG13	1:J:291:LEU:HD22	1.94	0.50
1:J:343:PHE:CB	1:K:469:GLY:C	2.42	0.50
1:J:352:PHE:CG	1:J:360:ILE:HG22	2.45	0.50
1:K:228:ILE:HG13	1:K:291:LEU:HD22	1.94	0.50
1:L:344:THR:O	1:L:344:THR:HG23	2.11	0.50
1:L:482:LEU:HD13	1:L:482:LEU:H	1.73	0.50
1:L:498:VAL:CG1	1:L:502:PHE:CE1	2.95	0.50
2:O:146:LEU:HG	2:O:156:SER:HA	1.92	0.50
2:R:102:LYS:HB3	2:R:107:VAL:HA	1.91	0.50
2:T:146:LEU:HG	2:T:156:SER:HA	1.92	0.50
1:A:459:ILE:HG21	1:L:487:THR:HG21	1.94	0.50
1:A:482:LEU:HB2	1:A:490:LEU:HD11	1.92	0.50
1:D:352:PHE:CG	1:D:360:ILE:HG22	2.45	0.50
1:D:480:SER:HA	1:D:494:ASP:HB3	1.91	0.50
1:G:418:ARG:HD3	1:G:474:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:418:ARG:HD3	1:I:474:LEU:CD1	2.41	0.50
1:K:498:VAL:CG1	1:K:502:PHE:CE1	2.95	0.50
2:M:91:SER:O	2:M:95:MET:HG3	2.11	0.50
2:P:124:ASN:O	2:P:132:ARG:HA	2.11	0.50
2:Q:146:LEU:HG	2:Q:156:SER:HA	1.92	0.50
2:R:143:LEU:O	2:R:158:LYS:HG3	2.11	0.50
2:R:146:LEU:HG	2:R:156:SER:HA	1.92	0.50
2:S:96:ARG:O	2:S:111:ILE:HG23	2.12	0.50
2:V:96:ARG:O	2:V:111:ILE:HG23	2.12	0.50
1:A:418:ARG:HD3	1:A:474:LEU:CD1	2.41	0.50
1:A:464:ASN:CA	1:A:502:PHE:HZ	2.25	0.50
1:A:498:VAL:CG1	1:A:502:PHE:CE1	2.95	0.50
1:B:416:ALA:CB	1:B:417:PRO:HD2	2.38	0.50
1:F:448:LEU:HD22	1:F:448:LEU:N	2.27	0.50
1:G:343:PHE:CD1	1:H:469:GLY:HA3	2.42	0.50
1:I:445:ASN:HD22	1:I:445:ASN:H	1.60	0.50
1:J:445:ASN:HD22	1:J:445:ASN:H	1.60	0.50
1:K:367:GLU:O	1:K:368:SER:HB3	2.11	0.50
1:K:487:THR:HG21	1:L:459:ILE:HG21	1.93	0.50
1:L:367:GLU:O	1:L:368:SER:HB3	2.11	0.50
1:L:425:ASP:HA	1:L:428:PHE:HD2	1.74	0.50
2:O:91:SER:O	2:O:95:MET:HG3	2.11	0.50
2:P:91:SER:O	2:P:95:MET:HG3	2.11	0.50
2:Q:91:SER:O	2:Q:95:MET:HG3	2.11	0.50
2:R:91:SER:O	2:R:95:MET:HG3	2.11	0.50
2:S:91:SER:O	2:S:95:MET:HG3	2.11	0.50
1:B:228:ILE:HG13	1:B:291:LEU:HD22	1.94	0.50
1:C:228:ILE:HG13	1:C:291:LEU:HD22	1.94	0.50
1:C:367:GLU:O	1:C:368:SER:HB3	2.11	0.50
1:C:407:ARG:HH21	1:C:409:GLN:HG3	1.75	0.50
1:D:228:ILE:HG13	1:D:291:LEU:HD22	1.94	0.50
1:G:256:GLN:OE1	1:H:230:PHE:O	2.30	0.50
1:H:228:ILE:HG13	1:H:291:LEU:HD22	1.94	0.50
1:H:372:ILE:HG23	1:H:413:VAL:HG23	1.93	0.50
1:H:445:ASN:H	1:H:445:ASN:HD22	1.60	0.50
1:I:228:ILE:HG13	1:I:291:LEU:HD22	1.94	0.50
1:I:407:ARG:HH21	1:I:409:GLN:HG3	1.75	0.50
1:J:498:VAL:CG1	1:J:502:PHE:CE1	2.95	0.50
1:K:372:ILE:HG23	1:K:413:VAL:HG23	1.93	0.50
1:L:422:LEU:N	1:L:422:LEU:HD12	2.27	0.50
2:N:96:ARG:O	2:N:111:ILE:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:96:ARG:O	2:Q:111:ILE:HG23	2.12	0.50
2:S:136:ILE:HD12	2:S:136:ILE:N	2.26	0.50
2:V:91:SER:O	2:V:95:MET:HG3	2.11	0.50
2:V:124:ASN:O	2:V:132:ARG:HA	2.11	0.50
1:A:367:GLU:O	1:A:368:SER:HB3	2.11	0.50
1:A:448:LEU:HD22	1:A:448:LEU:N	2.26	0.50
1:B:256:GLN:OE1	1:C:230:PHE:O	2.30	0.50
1:B:464:ASN:CA	1:B:502:PHE:HZ	2.25	0.50
1:C:416:ALA:CB	1:C:417:PRO:HD2	2.38	0.50
1:C:425:ASP:HA	1:C:428:PHE:HD2	1.74	0.50
1:E:448:LEU:HD22	1:E:448:LEU:N	2.26	0.50
1:G:228:ILE:HG13	1:G:291:LEU:HD22	1.94	0.50
1:H:422:LEU:HD12	1:H:422:LEU:N	2.27	0.50
1:I:265:LYS:CE	1:J:245:LEU:HB3	2.26	0.50
1:I:372:ILE:HG23	1:I:413:VAL:HG23	1.92	0.50
1:I:448:LEU:HD22	1:I:448:LEU:N	2.27	0.50
1:I:483:ILE:HG13	1:I:491:ILE:HB	1.93	0.50
2:N:148:GLU:O	2:N:149:ASP:HB2	2.11	0.50
2:O:96:ARG:O	2:O:111:ILE:HG23	2.12	0.50
2:P:147:ILE:HD12	2:P:147:ILE:O	2.12	0.50
2:S:148:GLU:O	2:S:149:ASP:HB2	2.11	0.50
2:T:91:SER:O	2:T:95:MET:HG3	2.11	0.50
2:T:96:ARG:O	2:T:111:ILE:HG23	2.12	0.50
2:U:143:LEU:O	2:U:158:LYS:HG3	2.11	0.50
2:W:147:ILE:O	2:W:147:ILE:HD12	2.12	0.50
1:E:228:ILE:HG13	1:E:291:LEU:HD22	1.94	0.50
1:E:343:PHE:CD1	1:F:469:GLY:HA3	2.42	0.50
1:F:228:ILE:HG13	1:F:291:LEU:HD22	1.94	0.50
1:F:344:THR:HG23	1:F:344:THR:O	2.11	0.50
1:G:445:ASN:HD22	1:G:445:ASN:H	1.60	0.50
1:H:344:THR:HG23	1:H:344:THR:O	2.11	0.50
1:I:343:PHE:N	1:J:470:ASN:N	2.53	0.50
1:I:422:LEU:N	1:I:422:LEU:HD12	2.27	0.50
1:J:372:ILE:HG23	1:J:413:VAL:HG23	1.92	0.50
1:J:448:LEU:HD22	1:J:448:LEU:N	2.26	0.50
1:L:228:ILE:HG13	1:L:291:LEU:HD22	1.94	0.50
2:Q:147:ILE:HD12	2:Q:147:ILE:O	2.12	0.50
2:Q:162:LEU:HG	2:Q:162:LEU:O	2.11	0.50
2:U:96:ARG:O	2:U:111:ILE:HG23	2.12	0.50
1:A:228:ILE:HG13	1:A:291:LEU:HD22	1.94	0.50
1:B:498:VAL:CG1	1:B:502:PHE:CE1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:MET:HE1	1:D:384:LEU:HG	1.88	0.50
1:D:422:LEU:N	1:D:422:LEU:HD12	2.27	0.50
1:D:445:ASN:HD22	1:D:445:ASN:H	1.60	0.50
1:E:445:ASN:H	1:E:445:ASN:HD22	1.60	0.50
1:F:294:LEU:HD12	1:G:273:LEU:CD2	2.41	0.50
1:G:294:LEU:CG	1:H:273:LEU:HD21	2.27	0.50
1:G:498:VAL:CG1	1:G:502:PHE:CE1	2.95	0.50
1:K:265:LYS:CE	1:L:245:LEU:HB3	2.25	0.50
1:K:352:PHE:CG	1:K:360:ILE:HG22	2.45	0.50
1:K:422:LEU:HD12	1:K:422:LEU:N	2.27	0.50
1:K:445:ASN:H	1:K:445:ASN:HD22	1.60	0.50
2:N:91:SER:O	2:N:95:MET:HG3	2.11	0.50
2:R:136:ILE:HD12	2:R:136:ILE:N	2.26	0.50
2:S:146:LEU:HG	2:S:156:SER:HA	1.92	0.50
2:T:148:GLU:O	2:T:149:ASP:HB2	2.11	0.50
1:A:344:THR:HG23	1:A:344:THR:O	2.11	0.49
1:A:508:GLU:OE2	1:L:447:GLN:OE1	2.23	0.49
1:C:256:GLN:OE1	1:D:230:PHE:O	2.30	0.49
1:D:408:GLN:CB	1:D:413:VAL:HG12	2.42	0.49
1:E:422:LEU:HD12	1:E:422:LEU:N	2.27	0.49
1:G:257:HIS:CD2	1:H:232:LYS:CB	2.89	0.49
1:G:344:THR:O	1:G:344:THR:HG23	2.11	0.49
1:G:408:GLN:CB	1:G:413:VAL:HG12	2.42	0.49
1:I:351:ASP:OD2	2:U:100:ILE:N	2.45	0.49
2:M:96:ARG:O	2:M:111:ILE:HG23	2.12	0.49
2:Q:124:ASN:O	2:Q:132:ARG:HA	2.12	0.49
2:Q:143:LEU:O	2:Q:158:LYS:HG3	2.11	0.49
2:R:96:ARG:O	2:R:111:ILE:HG23	2.12	0.49
2:S:143:LEU:O	2:S:158:LYS:HG3	2.11	0.49
2:V:143:LEU:O	2:V:158:LYS:HG3	2.11	0.49
2:W:162:LEU:HG	2:W:162:LEU:O	2.11	0.49
2:X:124:ASN:O	2:X:132:ARG:HA	2.11	0.49
1:B:448:LEU:HD22	1:B:448:LEU:N	2.26	0.49
1:C:493:THR:O	1:C:494:ASP:HB3	2.12	0.49
1:D:256:GLN:OE1	1:E:230:PHE:O	2.30	0.49
1:D:344:THR:O	1:D:344:THR:HG23	2.11	0.49
1:D:493:THR:O	1:D:494:ASP:HB3	2.13	0.49
1:E:408:GLN:CB	1:E:413:VAL:HG12	2.43	0.49
1:E:498:VAL:CG1	1:E:502:PHE:CE1	2.95	0.49
1:F:408:GLN:CB	1:F:413:VAL:HG12	2.43	0.49
1:F:422:LEU:N	1:F:422:LEU:HD12	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:445:ASN:H	1:F:445:ASN:HD22	1.60	0.49
1:H:408:GLN:CB	1:H:413:VAL:HG12	2.43	0.49
1:H:425:ASP:HA	1:H:428:PHE:HD2	1.74	0.49
1:I:498:VAL:CG1	1:I:502:PHE:CE1	2.95	0.49
1:J:487:THR:HG21	1:K:459:ILE:HG21	1.94	0.49
1:K:464:ASN:CA	1:K:502:PHE:HZ	2.25	0.49
2:P:146:LEU:HG	2:P:156:SER:HA	1.92	0.49
2:U:91:SER:O	2:U:95:MET:HG3	2.11	0.49
2:W:124:ASN:O	2:W:132:ARG:HA	2.12	0.49
1:B:422:LEU:HD12	1:B:422:LEU:N	2.27	0.49
1:C:422:LEU:HD12	1:C:422:LEU:N	2.27	0.49
1:D:498:VAL:CG1	1:D:502:PHE:CE1	2.95	0.49
1:E:256:GLN:OE1	1:F:230:PHE:O	2.30	0.49
1:E:344:THR:HG23	1:E:344:THR:O	2.11	0.49
1:E:493:THR:O	1:E:494:ASP:HB3	2.13	0.49
1:F:418:ARG:HD3	1:F:474:LEU:CD1	2.41	0.49
1:G:464:ASN:CA	1:G:502:PHE:HZ	2.25	0.49
1:H:351:ASP:OD2	2:T:100:ILE:N	2.45	0.49
1:H:367:GLU:O	1:H:368:SER:HB3	2.11	0.49
1:H:400:GLN:HG3	1:I:478:ARG:HD3	1.94	0.49
1:H:418:ARG:HD3	1:H:474:LEU:CD1	2.41	0.49
1:J:425:ASP:HA	1:J:428:PHE:HD2	1.74	0.49
2:M:148:GLU:O	2:M:149:ASP:HB2	2.11	0.49
2:N:124:ASN:O	2:N:132:ARG:HA	2.12	0.49
2:R:162:LEU:HG	2:R:162:LEU:O	2.11	0.49
2:U:147:ILE:HD12	2:U:147:ILE:O	2.12	0.49
2:X:143:LEU:O	2:X:158:LYS:HG3	2.11	0.49
2:X:147:ILE:HD12	2:X:147:ILE:O	2.12	0.49
1:B:389:VAL:HG23	1:C:376:ASP:CG	2.28	0.49
1:B:408:GLN:CB	1:B:413:VAL:HG12	2.43	0.49
1:C:445:ASN:H	1:C:445:ASN:HD22	1.60	0.49
1:D:448:LEU:HD22	1:D:448:LEU:N	2.26	0.49
1:E:382:MET:HE1	1:E:384:LEU:HG	1.88	0.49
1:F:256:GLN:OE1	1:G:230:PHE:O	2.30	0.49
1:I:424:LYS:CG	1:I:428:PHE:CZ	2.93	0.49
1:J:367:GLU:O	1:J:368:SER:HB3	2.11	0.49
1:L:448:LEU:HD22	1:L:448:LEU:N	2.27	0.49
2:M:162:LEU:O	2:M:162:LEU:HG	2.11	0.49
2:P:162:LEU:O	2:P:162:LEU:HG	2.11	0.49
1:A:416:ALA:CB	1:A:417:PRO:HD2	2.38	0.49
1:A:445:ASN:HD22	1:A:445:ASN:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:THR:O	1:A:494:ASP:HB3	2.13	0.49
1:B:294:LEU:CD1	1:C:273:LEU:HD22	2.43	0.49
1:B:348:ILE:HD13	1:B:391:TRP:HB3	1.95	0.49
1:B:445:ASN:HD22	1:B:445:ASN:H	1.60	0.49
1:B:483:ILE:HG13	1:B:491:ILE:HB	1.93	0.49
1:C:294:LEU:CD1	1:D:273:LEU:HD22	2.43	0.49
1:C:348:ILE:HD13	1:C:391:TRP:HB3	1.95	0.49
1:C:498:VAL:CG1	1:C:502:PHE:CE1	2.95	0.49
1:D:348:ILE:HD13	1:D:391:TRP:HB3	1.95	0.49
1:D:400:GLN:HG3	1:E:478:ARG:HD3	1.95	0.49
1:D:511:VAL:CB	1:D:512:PRO:HD3	2.43	0.49
1:E:348:ILE:HD13	1:E:391:TRP:HB3	1.95	0.49
1:E:400:GLN:HG3	1:F:478:ARG:HD3	1.94	0.49
1:F:498:VAL:CG1	1:F:502:PHE:CE1	2.95	0.49
1:G:400:GLN:HG3	1:H:478:ARG:HD3	1.95	0.49
1:H:265:LYS:NZ	1:I:245:LEU:CA	2.35	0.49
1:J:256:GLN:CD	1:K:231:ARG:HD2	2.29	0.49
1:J:351:ASP:OD2	2:V:100:ILE:N	2.45	0.49
1:K:408:GLN:CB	1:K:413:VAL:HG12	2.43	0.49
1:K:447:GLN:OE1	1:L:508:GLU:OE2	2.23	0.49
1:K:448:LEU:HD22	1:K:448:LEU:N	2.26	0.49
2:M:147:ILE:HD12	2:M:147:ILE:O	2.12	0.49
2:P:96:ARG:O	2:P:111:ILE:HG23	2.12	0.49
2:R:148:GLU:O	2:R:149:ASP:HB2	2.11	0.49
2:S:147:ILE:HD12	2:S:147:ILE:O	2.12	0.49
2:T:147:ILE:O	2:T:147:ILE:HD12	2.12	0.49
2:U:124:ASN:O	2:U:132:ARG:HA	2.11	0.49
1:A:348:ILE:HD13	1:A:391:TRP:HB3	1.95	0.49
1:B:351:ASP:OD2	2:N:100:ILE:N	2.45	0.49
1:D:424:LYS:CG	1:D:428:PHE:CZ	2.93	0.49
1:D:481:VAL:HG22	1:D:482:LEU:N	2.28	0.49
1:F:493:THR:O	1:F:494:ASP:HB3	2.12	0.49
1:G:354:ASP:CA	1:G:383:THR:HG22	2.43	0.49
1:H:357:ILE:CA	1:H:360:ILE:HG12	2.43	0.49
1:I:425:ASP:HA	1:I:428:PHE:HD2	1.74	0.49
1:K:425:ASP:HA	1:K:428:PHE:HD2	1.74	0.49
1:L:445:ASN:HD22	1:L:445:ASN:H	1.60	0.49
2:N:147:ILE:HD12	2:N:147:ILE:O	2.12	0.49
2:S:124:ASN:O	2:S:132:ARG:HA	2.11	0.49
2:T:162:LEU:HG	2:T:162:LEU:O	2.11	0.49
1:A:376:ASP:CG	1:L:389:VAL:HG23	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:511:VAL:CB	1:A:512:PRO:HD3	2.43	0.49
1:F:464:ASN:CA	1:F:502:PHE:HZ	2.25	0.49
1:H:483:ILE:HG13	1:H:491:ILE:HB	1.93	0.49
1:H:493:THR:O	1:H:494:ASP:HB3	2.13	0.49
1:H:498:VAL:CG1	1:H:502:PHE:CE1	2.95	0.49
1:I:481:VAL:HG22	1:I:482:LEU:N	2.28	0.49
1:J:357:ILE:CA	1:J:360:ILE:HG12	2.43	0.49
1:J:493:THR:O	1:J:494:ASP:HB3	2.13	0.49
1:K:511:VAL:CB	1:K:512:PRO:HD3	2.43	0.49
1:L:493:THR:O	1:L:494:ASP:HB3	2.12	0.49
2:O:147:ILE:HD12	2:O:147:ILE:O	2.12	0.49
2:O:162:LEU:HG	2:O:162:LEU:O	2.11	0.49
2:R:147:ILE:HD12	2:R:147:ILE:O	2.12	0.49
2:S:97:TYR:CE1	2:S:141:ILE:HD11	2.48	0.49
1:A:422:LEU:N	1:A:422:LEU:HD12	2.27	0.49
1:B:344:THR:HG23	1:B:344:THR:O	2.11	0.49
1:C:408:GLN:CB	1:C:413:VAL:HG12	2.43	0.49
1:C:448:LEU:HD22	1:C:448:LEU:N	2.27	0.49
1:E:464:ASN:HA	1:E:464:ASN:HD22	1.41	0.49
1:F:348:ILE:HD13	1:F:391:TRP:HB3	1.95	0.49
1:I:408:GLN:CB	1:I:413:VAL:HG12	2.43	0.49
1:J:430:GLN:HE21	1:J:430:GLN:HB3	1.42	0.49
1:J:511:VAL:CB	1:J:512:PRO:HD3	2.43	0.49
1:K:348:ILE:HD13	1:K:391:TRP:HB3	1.95	0.49
2:M:97:TYR:CE1	2:M:141:ILE:HD11	2.48	0.49
2:N:97:TYR:CE1	2:N:141:ILE:HD11	2.48	0.49
2:Q:148:GLU:O	2:Q:149:ASP:HB2	2.11	0.49
2:U:148:GLU:O	2:U:149:ASP:HB2	2.11	0.49
2:X:161:LEU:HD22	2:X:162:LEU:C	2.38	0.49
1:A:408:GLN:CB	1:A:413:VAL:HG12	2.42	0.49
1:B:511:VAL:CB	1:B:512:PRO:HD3	2.43	0.49
1:D:307:ASN:CB	2:P:162:LEU:HD12	2.43	0.49
1:E:464:ASN:CA	1:E:502:PHE:HZ	2.25	0.49
1:G:307:ASN:CB	2:S:162:LEU:HD12	2.43	0.49
1:G:347:LYS:HZ1	2:S:104:GLY:CA	2.08	0.49
1:G:422:LEU:N	1:G:422:LEU:HD12	2.27	0.49
1:H:256:GLN:NE2	1:I:231:ARG:CD	2.48	0.49
1:H:348:ILE:HD13	1:H:391:TRP:HB3	1.95	0.49
1:H:430:GLN:HE21	1:H:430:GLN:HB3	1.42	0.49
1:J:408:GLN:CB	1:J:413:VAL:HG12	2.42	0.49
1:J:447:GLN:OE1	1:K:508:GLU:OE2	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:481:VAL:HG22	1:J:482:LEU:N	2.28	0.49
1:K:493:THR:O	1:K:494:ASP:HB3	2.13	0.49
2:Q:161:LEU:HD22	2:Q:162:LEU:C	2.38	0.49
2:U:162:LEU:O	2:U:162:LEU:HG	2.11	0.49
1:A:351:ASP:OD2	2:M:100:ILE:N	2.45	0.49
1:A:481:VAL:HG22	1:A:482:LEU:N	2.28	0.49
1:C:351:ASP:OD2	2:O:100:ILE:N	2.45	0.49
1:C:408:GLN:HE22	1:C:408:GLN:HB3	0.98	0.49
1:E:351:ASP:OD2	2:Q:100:ILE:N	2.45	0.49
1:E:357:ILE:CA	1:E:360:ILE:HG12	2.43	0.49
1:E:511:VAL:CB	1:E:512:PRO:HD3	2.43	0.49
1:F:390:PRO:HB2	1:F:392:ASP:OD1	2.13	0.49
1:G:348:ILE:HD13	1:G:391:TRP:HB3	1.95	0.49
1:G:351:ASP:OD2	2:S:100:ILE:N	2.45	0.49
1:G:352:PHE:CG	1:G:360:ILE:CG2	2.96	0.49
1:G:390:PRO:HB2	1:G:392:ASP:OD1	2.13	0.49
1:G:406:MET:CE	1:G:415:ILE:HD11	2.42	0.49
1:H:352:PHE:CG	1:H:360:ILE:CG2	2.96	0.49
1:I:352:PHE:CG	1:I:360:ILE:CG2	2.96	0.49
1:I:487:THR:HG21	1:J:459:ILE:HG21	1.94	0.49
1:J:307:ASN:CB	2:V:162:LEU:HD12	2.43	0.49
1:J:348:ILE:HD13	1:J:391:TRP:HB3	1.95	0.49
1:J:352:PHE:CG	1:J:360:ILE:CG2	2.96	0.49
1:J:422:LEU:HD12	1:J:422:LEU:N	2.27	0.49
1:K:390:PRO:HB2	1:K:392:ASP:OD1	2.13	0.49
1:L:348:ILE:HD13	1:L:391:TRP:HB3	1.95	0.49
1:L:357:ILE:CA	1:L:360:ILE:HG12	2.43	0.49
1:L:464:ASN:CA	1:L:502:PHE:HZ	2.25	0.49
2:S:162:LEU:HG	2:S:162:LEU:O	2.11	0.49
2:U:145:GLU:O	2:U:156:SER:HA	2.13	0.49
2:V:147:ILE:HD12	2:V:147:ILE:O	2.12	0.49
2:W:140:SER:HA	2:W:161:LEU:O	2.13	0.49
1:A:425:ASP:HA	1:A:428:PHE:HD2	1.74	0.48
1:D:464:ASN:CA	1:D:502:PHE:HZ	2.25	0.48
1:E:424:LYS:CG	1:E:428:PHE:CZ	2.93	0.48
1:E:481:VAL:HG22	1:E:482:LEU:N	2.28	0.48
1:H:464:ASN:CA	1:H:502:PHE:HZ	2.25	0.48
1:I:348:ILE:HD13	1:I:391:TRP:HB3	1.95	0.48
1:I:464:ASN:CA	1:I:502:PHE:HZ	2.25	0.48
1:K:307:ASN:CB	2:W:162:LEU:HD12	2.43	0.48
1:K:351:ASP:OD2	2:W:100:ILE:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:390:PRO:HB2	1:L:392:ASP:OD1	2.13	0.48
2:N:111:ILE:CG2	2:N:112:GLU:N	2.76	0.48
2:P:111:ILE:CG2	2:P:112:GLU:N	2.76	0.48
2:R:97:TYR:CE1	2:R:141:ILE:HD11	2.48	0.48
2:V:140:SER:HA	2:V:161:LEU:O	2.13	0.48
2:V:145:GLU:O	2:V:156:SER:HA	2.13	0.48
2:X:140:SER:HA	2:X:161:LEU:O	2.13	0.48
1:A:307:ASN:CB	2:M:162:LEU:HD12	2.43	0.48
1:A:389:VAL:HG23	1:B:376:ASP:CG	2.28	0.48
1:A:390:PRO:HB2	1:A:392:ASP:OD1	2.13	0.48
1:B:354:ASP:CA	1:B:383:THR:HG22	2.43	0.48
1:B:481:VAL:HG22	1:B:482:LEU:N	2.28	0.48
1:C:307:ASN:CB	2:O:162:LEU:HD12	2.43	0.48
1:C:453:VAL:HG21	1:C:488:ASN:HA	1.96	0.48
1:D:349:SER:OG	2:P:102:LYS:HG3	2.12	0.48
1:F:352:PHE:CG	1:F:360:ILE:CG2	2.96	0.48
1:K:352:PHE:CG	1:K:360:ILE:CG2	2.96	0.48
1:L:453:VAL:HG21	1:L:488:ASN:HA	1.96	0.48
1:L:464:ASN:HA	1:L:464:ASN:HD22	1.41	0.48
2:M:111:ILE:CG2	2:M:112:GLU:N	2.76	0.48
2:M:161:LEU:HD22	2:M:162:LEU:C	2.38	0.48
2:Q:97:TYR:CE1	2:Q:141:ILE:HD11	2.48	0.48
2:Q:111:ILE:CG2	2:Q:112:GLU:N	2.76	0.48
2:Q:145:GLU:O	2:Q:156:SER:HA	2.13	0.48
2:T:140:SER:HA	2:T:161:LEU:O	2.13	0.48
2:U:133:ILE:HG13	2:U:134:GLU:N	2.29	0.48
2:U:140:SER:HA	2:U:161:LEU:O	2.13	0.48
1:A:354:ASP:CA	1:A:383:THR:HG22	2.43	0.48
1:B:370:MET:HG3	1:B:391:TRP:HH2	1.78	0.48
1:D:354:ASP:CA	1:D:383:THR:HG22	2.43	0.48
1:D:406:MET:CE	1:D:415:ILE:HD11	2.42	0.48
1:E:408:GLN:HE22	1:E:408:GLN:HB3	0.98	0.48
1:F:351:ASP:OD2	2:R:100:ILE:N	2.45	0.48
1:H:424:LYS:CG	1:H:428:PHE:CZ	2.93	0.48
1:I:256:GLN:NE2	1:J:231:ARG:CD	2.48	0.48
1:I:354:ASP:CA	1:I:383:THR:HG22	2.43	0.48
1:J:354:ASP:CA	1:J:383:THR:HG22	2.43	0.48
2:M:140:SER:HA	2:M:161:LEU:O	2.13	0.48
2:O:145:GLU:O	2:O:156:SER:HA	2.13	0.48
2:T:120:VAL:HB	2:T:133:ILE:HG21	1.95	0.48
2:U:120:VAL:HB	2:U:133:ILE:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:161:LEU:HD22	2:U:162:LEU:C	2.38	0.48
2:V:97:TYR:CE1	2:V:141:ILE:HD11	2.48	0.48
2:W:145:GLU:O	2:W:156:SER:HA	2.13	0.48
1:B:390:PRO:HB2	1:B:392:ASP:OD1	2.13	0.48
1:C:344:THR:HG23	1:C:344:THR:O	2.11	0.48
1:C:370:MET:HG3	1:C:391:TRP:HH2	1.78	0.48
1:C:511:VAL:CB	1:C:512:PRO:HD3	2.43	0.48
1:D:450:TYR:CE2	1:D:514:GLN:CG	2.96	0.48
1:F:453:VAL:HG21	1:F:488:ASN:HA	1.96	0.48
1:H:487:THR:HG21	1:I:459:ILE:HG21	1.93	0.48
1:I:447:GLN:OE1	1:J:508:GLU:OE2	2.23	0.48
1:J:428:PHE:HB3	1:J:437:ASP:HA	1.95	0.48
1:J:464:ASN:CA	1:J:502:PHE:HZ	2.25	0.48
1:K:354:ASP:CA	1:K:383:THR:HG22	2.43	0.48
1:K:428:PHE:HB3	1:K:437:ASP:HA	1.95	0.48
1:L:408:GLN:CB	1:L:413:VAL:HG12	2.43	0.48
1:L:428:PHE:HB3	1:L:437:ASP:HA	1.95	0.48
1:L:481:VAL:HG22	1:L:482:LEU:N	2.28	0.48
2:O:97:TYR:CE1	2:O:141:ILE:HD11	2.48	0.48
2:T:133:ILE:HG13	2:T:134:GLU:N	2.28	0.48
2:T:145:GLU:O	2:T:156:SER:HA	2.13	0.48
2:T:161:LEU:HD22	2:T:162:LEU:C	2.38	0.48
2:W:111:ILE:CG2	2:W:112:GLU:N	2.76	0.48
2:X:97:TYR:CE1	2:X:141:ILE:HD11	2.48	0.48
1:B:400:GLN:HG3	1:C:478:ARG:HD3	1.94	0.48
1:B:408:GLN:HE22	1:B:408:GLN:HB3	0.98	0.48
1:B:490:LEU:CD2	1:B:506:ILE:HD11	2.44	0.48
1:B:493:THR:O	1:B:494:ASP:HB3	2.13	0.48
1:C:464:ASN:CA	1:C:502:PHE:HZ	2.25	0.48
1:D:351:ASP:OD2	2:P:100:ILE:N	2.45	0.48
1:E:354:ASP:CA	1:E:383:THR:HG22	2.43	0.48
1:F:307:ASN:CB	2:R:162:LEU:HD12	2.43	0.48
1:G:357:ILE:CA	1:G:360:ILE:HG12	2.43	0.48
1:H:307:ASN:CB	2:T:162:LEU:HD12	2.43	0.48
1:H:354:ASP:CA	1:H:383:THR:HG22	2.43	0.48
1:H:390:PRO:HB2	1:H:392:ASP:OD1	2.13	0.48
1:J:400:GLN:HG3	1:K:478:ARG:HD3	1.95	0.48
2:N:140:SER:HA	2:N:161:LEU:O	2.13	0.48
2:T:97:TYR:CE1	2:T:141:ILE:HD11	2.48	0.48
2:V:120:VAL:HB	2:V:133:ILE:HG21	1.95	0.48
2:V:133:ILE:HG13	2:V:134:GLU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:161:LEU:HD22	2:V:162:LEU:C	2.38	0.48
2:W:97:TYR:CE1	2:W:141:ILE:HD11	2.48	0.48
1:C:361:LEU:HG	1:C:372:ILE:CG2	2.44	0.48
1:C:483:ILE:HG13	1:C:491:ILE:HB	1.93	0.48
1:D:453:VAL:HG21	1:D:488:ASN:HA	1.95	0.48
1:E:307:ASN:CB	2:Q:162:LEU:HD12	2.43	0.48
1:E:361:LEU:HG	1:E:372:ILE:CG2	2.44	0.48
1:F:404:LEU:H	1:F:404:LEU:CD2	2.25	0.48
1:F:424:LYS:CG	1:F:428:PHE:CZ	2.93	0.48
1:G:416:ALA:CB	1:G:417:PRO:HD2	2.38	0.48
1:G:483:ILE:HG13	1:G:491:ILE:HB	1.93	0.48
1:G:490:LEU:CD2	1:G:506:ILE:HD11	2.44	0.48
1:H:256:GLN:OE1	1:I:230:PHE:C	2.56	0.48
1:H:481:VAL:HG22	1:H:482:LEU:N	2.28	0.48
1:J:390:PRO:HB2	1:J:392:ASP:OD1	2.13	0.48
1:K:256:GLN:OE1	1:L:230:PHE:C	2.56	0.48
1:K:400:GLN:HG3	1:L:478:ARG:HD3	1.94	0.48
1:L:351:ASP:OD2	2:X:100:ILE:N	2.45	0.48
1:L:352:PHE:CG	1:L:360:ILE:CG2	2.96	0.48
1:L:490:LEU:CD2	1:L:506:ILE:HD11	2.44	0.48
2:P:97:TYR:CE1	2:P:141:ILE:HD11	2.48	0.48
2:P:161:LEU:HD22	2:P:162:LEU:C	2.38	0.48
2:R:161:LEU:HD22	2:R:162:LEU:C	2.38	0.48
2:S:111:ILE:CG2	2:S:112:GLU:N	2.76	0.48
2:S:140:SER:HA	2:S:161:LEU:O	2.13	0.48
2:S:161:LEU:HD22	2:S:162:LEU:C	2.38	0.48
2:T:102:LYS:HB2	2:T:107:VAL:HA	1.96	0.48
2:W:161:LEU:HD22	2:W:162:LEU:C	2.38	0.48
1:B:453:VAL:HG21	1:B:488:ASN:HA	1.95	0.48
1:E:352:PHE:CG	1:E:360:ILE:CG2	2.96	0.48
1:E:390:PRO:HB2	1:E:392:ASP:OD1	2.13	0.48
1:G:256:GLN:NE2	1:H:231:ARG:CD	2.48	0.48
1:G:424:LYS:CG	1:G:428:PHE:CZ	2.93	0.48
1:I:406:MET:CE	1:I:415:ILE:HD11	2.42	0.48
1:I:493:THR:O	1:I:494:ASP:HB3	2.12	0.48
1:J:361:LEU:HG	1:J:372:ILE:CG2	2.44	0.48
1:L:307:ASN:CB	2:X:162:LEU:HD12	2.43	0.48
2:R:140:SER:HA	2:R:161:LEU:O	2.13	0.48
2:S:120:VAL:HB	2:S:133:ILE:HG21	1.95	0.48
1:A:400:GLN:HG3	1:B:478:ARG:HD3	1.95	0.48
1:B:386:LEU:HD21	1:B:397:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:MET:HG3	1:F:391:TRP:HH2	1.78	0.48
1:H:361:LEU:HG	1:H:372:ILE:CG2	2.44	0.48
1:I:428:PHE:HB3	1:I:437:ASP:HA	1.95	0.48
1:K:406:MET:CE	1:K:415:ILE:HD11	2.42	0.48
1:K:453:VAL:HG21	1:K:488:ASN:HA	1.95	0.48
1:K:498:VAL:HG13	1:K:502:PHE:HE1	1.79	0.48
1:L:354:ASP:CA	1:L:383:THR:HG22	2.43	0.48
1:L:511:VAL:CB	1:L:512:PRO:HD3	2.43	0.48
2:M:133:ILE:HG13	2:M:134:GLU:N	2.29	0.48
2:O:140:SER:HA	2:O:161:LEU:O	2.13	0.48
2:Q:140:SER:HA	2:Q:161:LEU:O	2.13	0.48
2:V:102:LYS:HB2	2:V:107:VAL:HA	1.96	0.48
2:X:111:ILE:CG2	2:X:112:GLU:N	2.76	0.48
2:X:145:GLU:O	2:X:156:SER:HA	2.13	0.48
1:A:272:THR:HG21	1:L:293:ARG:HH11	1.64	0.48
1:A:361:LEU:HG	1:A:372:ILE:CG2	2.44	0.48
1:A:370:MET:HG3	1:A:391:TRP:HH2	1.78	0.48
1:A:402:ARG:O	1:A:422:LEU:HD11	2.14	0.48
1:A:428:PHE:HB3	1:A:437:ASP:HA	1.95	0.48
1:C:265:LYS:CE	1:D:245:LEU:HB3	2.26	0.48
1:E:370:MET:HG3	1:E:391:TRP:HH2	1.78	0.48
1:E:428:PHE:HB3	1:E:437:ASP:HA	1.95	0.48
1:F:265:LYS:CE	1:G:245:LEU:HB3	2.26	0.48
1:G:370:MET:HG3	1:G:391:TRP:HH2	1.78	0.48
1:G:386:LEU:HD21	1:G:397:LEU:HD23	1.96	0.48
1:G:388:ASP:C	1:H:376:ASP:OD2	2.53	0.48
1:G:402:ARG:O	1:G:422:LEU:HD11	2.14	0.48
1:G:404:LEU:H	1:G:404:LEU:CD2	2.26	0.48
1:G:481:VAL:HG22	1:G:482:LEU:N	2.28	0.48
1:H:386:LEU:HD21	1:H:397:LEU:HD23	1.96	0.48
1:I:400:GLN:HG3	1:J:478:ARG:HD3	1.95	0.48
1:I:402:ARG:O	1:I:422:LEU:HD11	2.14	0.48
1:I:498:VAL:HG13	1:I:502:PHE:HE1	1.79	0.48
1:J:402:ARG:O	1:J:422:LEU:HD11	2.14	0.48
1:J:498:VAL:HG13	1:J:502:PHE:HE1	1.79	0.48
1:K:481:VAL:HG22	1:K:482:LEU:N	2.28	0.48
2:N:133:ILE:HG13	2:N:134:GLU:N	2.28	0.48
2:N:161:LEU:HD22	2:N:162:LEU:C	2.38	0.48
2:O:161:LEU:HD22	2:O:162:LEU:C	2.38	0.48
2:P:140:SER:HA	2:P:161:LEU:O	2.13	0.48
2:R:102:LYS:HB2	2:R:107:VAL:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:120:VAL:HB	2:R:133:ILE:HG21	1.95	0.48
2:U:111:ILE:CG2	2:U:112:GLU:N	2.76	0.48
2:W:102:LYS:HB2	2:W:107:VAL:HA	1.96	0.48
2:X:128:GLN:HG3	2:X:129:ASN:N	2.29	0.48
1:A:230:PHE:C	1:L:256:GLN:OE1	2.56	0.48
1:A:269:LEU:HD23	1:A:269:LEU:O	2.14	0.48
1:A:386:LEU:HD21	1:A:397:LEU:HD23	1.96	0.48
1:A:456:PHE:CD1	1:A:509:LEU:HD12	2.49	0.48
1:A:472:ASN:HB3	1:A:474:LEU:O	2.14	0.48
1:B:269:LEU:HD23	1:B:269:LEU:O	2.14	0.48
1:B:293:ARG:HH11	1:C:272:THR:HG21	1.64	0.48
1:B:307:ASN:CB	2:N:162:LEU:HD12	2.43	0.48
1:B:352:PHE:CG	1:B:360:ILE:CG2	2.96	0.48
1:B:357:ILE:CA	1:B:360:ILE:HG12	2.43	0.48
1:B:472:ASN:HB3	1:B:474:LEU:O	2.14	0.48
1:C:386:LEU:HD21	1:C:397:LEU:HD23	1.96	0.48
1:C:390:PRO:HB2	1:C:392:ASP:OD1	2.13	0.48
1:C:481:VAL:HG22	1:C:482:LEU:N	2.28	0.48
1:D:370:MET:HG3	1:D:391:TRP:HH2	1.78	0.48
1:D:428:PHE:HB3	1:D:437:ASP:HA	1.95	0.48
1:D:483:ILE:HG13	1:D:491:ILE:HB	1.93	0.48
1:F:386:LEU:HD21	1:F:397:LEU:HD23	1.96	0.48
1:F:400:GLN:HG3	1:G:478:ARG:HD3	1.95	0.48
1:F:408:GLN:HE22	1:F:408:GLN:HB3	0.98	0.48
1:F:428:PHE:HB3	1:F:437:ASP:HA	1.95	0.48
1:F:481:VAL:HG22	1:F:482:LEU:N	2.28	0.48
1:G:361:LEU:HG	1:G:372:ILE:CG2	2.44	0.48
1:H:265:LYS:CE	1:I:245:LEU:HB3	2.25	0.48
1:H:370:MET:HG3	1:H:391:TRP:HH2	1.78	0.48
1:H:404:LEU:H	1:H:404:LEU:CD2	2.26	0.48
1:H:498:VAL:HG13	1:H:502:PHE:HE1	1.79	0.48
1:I:269:LEU:HD23	1:I:269:LEU:O	2.14	0.48
1:I:307:ASN:CB	2:U:162:LEU:HD12	2.43	0.48
1:I:453:VAL:HG21	1:I:488:ASN:HA	1.96	0.48
1:J:269:LEU:HD23	1:J:269:LEU:O	2.14	0.48
1:J:472:ASN:HB3	1:J:474:LEU:O	2.14	0.48
1:K:269:LEU:O	1:K:269:LEU:HD23	2.14	0.48
1:L:402:ARG:O	1:L:422:LEU:HD11	2.14	0.48
2:M:102:LYS:HB2	2:M:107:VAL:HA	1.96	0.48
2:M:128:GLN:HG3	2:M:129:ASN:N	2.29	0.48
2:R:111:ILE:CG2	2:R:112:GLU:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:145:GLU:O	2:S:156:SER:HA	2.13	0.48
2:W:120:VAL:HB	2:W:133:ILE:HG21	1.95	0.48
1:A:352:PHE:CG	1:A:360:ILE:CG2	2.96	0.47
1:A:416:ALA:HB3	1:A:418:ARG:HG3	1.96	0.47
1:A:453:VAL:HG21	1:A:488:ASN:HA	1.95	0.47
1:C:400:GLN:HG3	1:D:478:ARG:HD3	1.95	0.47
1:C:402:ARG:O	1:C:422:LEU:HD11	2.14	0.47
1:C:456:PHE:CD1	1:C:509:LEU:HD12	2.49	0.47
1:F:269:LEU:O	1:F:269:LEU:HD23	2.14	0.47
1:F:483:ILE:HG13	1:F:491:ILE:HB	1.93	0.47
1:G:416:ALA:HB3	1:G:418:ARG:HG3	1.96	0.47
1:G:487:THR:HG21	1:H:459:ILE:HG21	1.94	0.47
1:G:493:THR:O	1:G:494:ASP:HB3	2.13	0.47
1:H:388:ASP:C	1:I:376:ASP:OD2	2.53	0.47
1:I:370:MET:HG3	1:I:391:TRP:HH2	1.78	0.47
1:I:386:LEU:HD21	1:I:397:LEU:HD23	1.96	0.47
1:I:472:ASN:HB3	1:I:474:LEU:O	2.14	0.47
1:I:511:VAL:CB	1:I:512:PRO:HD3	2.43	0.47
1:K:430:GLN:HE21	1:K:430:GLN:HB3	1.42	0.47
1:L:269:LEU:HD23	1:L:269:LEU:O	2.14	0.47
1:L:498:VAL:HG13	1:L:502:PHE:HE1	1.79	0.47
2:O:111:ILE:CG2	2:O:112:GLU:N	2.76	0.47
2:W:128:GLN:HG3	2:W:129:ASN:N	2.29	0.47
2:X:133:ILE:HG13	2:X:134:GLU:N	2.29	0.47
1:A:293:ARG:HH11	1:B:272:THR:HG21	1.64	0.47
1:B:294:LEU:CG	1:C:227:ASN:HB2	2.44	0.47
1:B:416:ALA:HB3	1:B:418:ARG:HG3	1.96	0.47
1:D:352:PHE:CG	1:D:360:ILE:CG2	2.96	0.47
1:E:453:VAL:HG21	1:E:488:ASN:HA	1.95	0.47
1:E:483:ILE:HG13	1:E:491:ILE:HB	1.93	0.47
1:E:490:LEU:CD2	1:E:506:ILE:HD11	2.44	0.47
1:G:453:VAL:HG21	1:G:488:ASN:HA	1.95	0.47
1:H:269:LEU:O	1:H:269:LEU:HD23	2.14	0.47
1:H:373:VAL:HG23	1:H:412:ILE:HD11	1.95	0.47
1:H:416:ALA:HB3	1:H:418:ARG:HG3	1.96	0.47
1:I:265:LYS:NZ	1:J:245:LEU:CA	2.35	0.47
1:L:361:LEU:HG	1:L:372:ILE:CG2	2.44	0.47
1:L:386:LEU:HD21	1:L:397:LEU:HD23	1.96	0.47
1:L:416:ALA:HB3	1:L:418:ARG:HG3	1.96	0.47
2:U:97:TYR:CE1	2:U:141:ILE:HD11	2.48	0.47
1:A:408:GLN:HE22	1:A:408:GLN:HB3	0.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:VAL:HG13	1:A:502:PHE:HE1	1.79	0.47
1:B:425:ASP:HA	1:B:428:PHE:HD2	1.74	0.47
1:B:428:PHE:CE1	1:B:439:GLY:N	2.83	0.47
1:C:352:PHE:CG	1:C:360:ILE:CG2	2.96	0.47
1:C:450:TYR:CE2	1:C:514:GLN:CG	2.96	0.47
1:D:390:PRO:HB2	1:D:392:ASP:OD1	2.13	0.47
1:D:416:ALA:HB3	1:D:418:ARG:HG3	1.96	0.47
1:D:428:PHE:CE1	1:D:439:GLY:N	2.83	0.47
1:E:386:LEU:HD21	1:E:397:LEU:HD23	1.96	0.47
1:E:402:ARG:O	1:E:422:LEU:HD11	2.14	0.47
1:E:450:TYR:CE2	1:E:514:GLN:CG	2.96	0.47
1:E:456:PHE:CD1	1:E:509:LEU:HD12	2.49	0.47
1:F:416:ALA:HB3	1:F:418:ARG:HG3	1.96	0.47
1:G:269:LEU:HD23	1:G:269:LEU:O	2.14	0.47
1:G:361:LEU:HD23	1:G:372:ILE:HB	1.96	0.47
1:H:402:ARG:O	1:H:422:LEU:HD11	2.14	0.47
1:H:456:PHE:CD1	1:H:509:LEU:HD12	2.49	0.47
1:I:416:ALA:HB3	1:I:418:ARG:HG3	1.96	0.47
1:J:490:LEU:CD2	1:J:506:ILE:HD11	2.44	0.47
1:K:307:ASN:CB	2:W:162:LEU:CD1	2.93	0.47
1:K:361:LEU:HG	1:K:372:ILE:CG2	2.44	0.47
1:K:402:ARG:O	1:K:422:LEU:HD11	2.14	0.47
1:K:416:ALA:HB3	1:K:418:ARG:HG3	1.96	0.47
2:M:120:VAL:HB	2:M:133:ILE:HG21	1.95	0.47
2:M:145:GLU:O	2:M:156:SER:HA	2.13	0.47
2:Q:120:VAL:HB	2:Q:133:ILE:HG21	1.95	0.47
2:T:129:ASN:CG	2:T:147:ILE:HG22	2.40	0.47
2:V:91:SER:C	2:V:128:GLN:HB3	2.40	0.47
1:B:498:VAL:HG13	1:B:502:PHE:HE1	1.79	0.47
1:C:349:SER:OG	2:O:102:LYS:HG3	2.12	0.47
1:C:408:GLN:HG2	1:C:413:VAL:HG11	1.95	0.47
1:C:428:PHE:CE1	1:C:439:GLY:N	2.83	0.47
1:C:472:ASN:HB3	1:C:474:LEU:O	2.14	0.47
1:D:386:LEU:HD21	1:D:397:LEU:HD23	1.96	0.47
1:E:428:PHE:CE1	1:E:439:GLY:N	2.83	0.47
1:E:487:THR:HG21	1:F:459:ILE:HG21	1.93	0.47
1:F:352:PHE:CD1	1:F:360:ILE:CG2	2.95	0.47
1:F:408:GLN:HG2	1:F:413:VAL:HG11	1.95	0.47
1:G:498:VAL:HG13	1:G:502:PHE:HE1	1.79	0.47
1:I:256:GLN:OE1	1:J:230:PHE:C	2.56	0.47
1:I:307:ASN:CB	2:U:162:LEU:CD1	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:361:LEU:HG	1:I:372:ILE:CG2	2.44	0.47
1:I:451:LYS:HD3	1:I:455:GLU:OE1	2.15	0.47
1:J:294:LEU:CD1	1:K:273:LEU:HD22	2.43	0.47
1:J:307:ASN:CB	2:V:162:LEU:CD1	2.93	0.47
1:J:416:ALA:HB3	1:J:418:ARG:HG3	1.96	0.47
1:J:456:PHE:CD1	1:J:509:LEU:HD12	2.49	0.47
1:K:386:LEU:HD21	1:K:397:LEU:HD23	1.96	0.47
1:L:472:ASN:HB3	1:L:474:LEU:O	2.14	0.47
2:N:128:GLN:HG3	2:N:129:ASN:N	2.29	0.47
2:O:133:ILE:HG13	2:O:134:GLU:N	2.29	0.47
2:P:129:ASN:CG	2:P:147:ILE:HG22	2.40	0.47
2:Q:133:ILE:HG13	2:Q:134:GLU:N	2.28	0.47
2:S:129:ASN:CG	2:S:147:ILE:HG22	2.40	0.47
2:S:133:ILE:HG13	2:S:134:GLU:N	2.29	0.47
2:U:91:SER:C	2:U:128:GLN:HB3	2.40	0.47
2:W:133:ILE:HG13	2:W:134:GLU:N	2.28	0.47
1:A:376:ASP:OD2	1:L:388:ASP:C	2.53	0.47
1:B:408:GLN:HG2	1:B:413:VAL:HG11	1.95	0.47
1:C:269:LEU:O	1:C:269:LEU:HD23	2.14	0.47
1:C:416:ALA:HB3	1:C:418:ARG:HG3	1.96	0.47
1:C:428:PHE:HB3	1:C:437:ASP:HA	1.95	0.47
1:D:294:LEU:CG	1:E:227:ASN:HB2	2.45	0.47
1:E:416:ALA:HB3	1:E:418:ARG:HG3	1.96	0.47
1:F:361:LEU:HG	1:F:372:ILE:CG2	2.44	0.47
1:F:487:THR:HG21	1:G:459:ILE:HG21	1.94	0.47
1:H:307:ASN:CB	2:T:162:LEU:CD1	2.93	0.47
1:H:428:PHE:CE1	1:H:439:GLY:N	2.83	0.47
1:H:428:PHE:HB3	1:H:437:ASP:HA	1.95	0.47
1:I:357:ILE:CA	1:I:360:ILE:HG12	2.43	0.47
1:I:361:LEU:HD23	1:I:372:ILE:HB	1.96	0.47
1:J:256:GLN:NE2	1:K:231:ARG:CD	2.48	0.47
1:J:428:PHE:CE1	1:J:439:GLY:N	2.83	0.47
1:K:428:PHE:CE1	1:K:439:GLY:N	2.83	0.47
1:L:307:ASN:CB	2:X:162:LEU:CD1	2.93	0.47
2:N:145:GLU:O	2:N:156:SER:HA	2.13	0.47
2:P:133:ILE:HG13	2:P:134:GLU:N	2.29	0.47
2:Q:129:ASN:CG	2:Q:147:ILE:HG22	2.40	0.47
2:R:129:ASN:CG	2:R:147:ILE:HG22	2.40	0.47
2:V:128:GLN:HG3	2:V:129:ASN:N	2.29	0.47
2:X:102:LYS:HB2	2:X:107:VAL:HA	1.96	0.47
1:A:451:LYS:HD3	1:A:455:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:ARG:HD3	1:L:400:GLN:HG3	1.95	0.47
1:B:361:LEU:HD23	1:B:372:ILE:HB	1.96	0.47
1:D:352:PHE:CD1	1:D:360:ILE:CG2	2.95	0.47
1:D:373:VAL:HG23	1:D:412:ILE:HD11	1.95	0.47
1:E:294:LEU:CG	1:F:227:ASN:HB2	2.44	0.47
1:E:352:PHE:CD1	1:E:360:ILE:CG2	2.95	0.47
1:F:498:VAL:HG13	1:F:502:PHE:HE1	1.79	0.47
1:F:511:VAL:CB	1:F:512:PRO:HD3	2.43	0.47
1:G:430:GLN:HE21	1:G:430:GLN:HB3	1.42	0.47
1:H:357:ILE:HG12	1:H:403:ASN:ND2	2.30	0.47
1:I:390:PRO:HB2	1:I:392:ASP:OD1	2.13	0.47
1:J:386:LEU:HD21	1:J:397:LEU:HD23	1.96	0.47
1:L:451:LYS:HD3	1:L:455:GLU:OE1	2.15	0.47
2:N:110:PHE:C	2:N:111:ILE:HD12	2.40	0.47
2:O:110:PHE:C	2:O:111:ILE:HD12	2.40	0.47
2:P:120:VAL:HB	2:P:133:ILE:HG21	1.95	0.47
2:R:145:GLU:O	2:R:156:SER:HA	2.13	0.47
2:T:110:PHE:C	2:T:111:ILE:HD12	2.40	0.47
2:U:102:LYS:HB2	2:U:107:VAL:HA	1.96	0.47
2:U:110:PHE:C	2:U:111:ILE:HD12	2.40	0.47
2:U:129:ASN:CG	2:U:147:ILE:HG22	2.40	0.47
2:V:110:PHE:C	2:V:111:ILE:HD12	2.40	0.47
1:A:227:ASN:HB2	1:L:294:LEU:CG	2.45	0.47
1:A:256:GLN:OE1	1:B:230:PHE:C	2.56	0.47
1:A:265:LYS:CE	1:B:245:LEU:HB3	2.26	0.47
1:A:307:ASN:CB	2:M:162:LEU:CD1	2.93	0.47
1:A:406:MET:CE	1:A:415:ILE:HD11	2.42	0.47
1:A:408:GLN:HG2	1:A:413:VAL:HG11	1.95	0.47
1:B:428:PHE:HB3	1:B:437:ASP:HA	1.95	0.47
1:C:293:ARG:HH11	1:D:272:THR:HG21	1.64	0.47
1:C:361:LEU:HD23	1:C:372:ILE:HB	1.96	0.47
1:C:388:ASP:C	1:D:376:ASP:OD2	2.53	0.47
1:C:490:LEU:CD2	1:C:506:ILE:HD11	2.44	0.47
1:C:498:VAL:HG13	1:C:502:PHE:HE1	1.79	0.47
1:D:408:GLN:HE22	1:D:408:GLN:HB3	0.98	0.47
1:D:451:LYS:HD3	1:D:455:GLU:OE1	2.15	0.47
1:D:457:ARG:NE	1:D:457:ARG:HA	2.30	0.47
1:D:487:THR:HG21	1:E:459:ILE:HG21	1.94	0.47
1:D:498:VAL:HG13	1:D:502:PHE:HE1	1.79	0.47
1:E:269:LEU:O	1:E:269:LEU:HD23	2.14	0.47
1:E:357:ILE:HG12	1:E:403:ASN:HD21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:VAL:HG13	1:E:502:PHE:HE1	1.79	0.47
1:F:357:ILE:HG12	1:F:403:ASN:ND2	2.30	0.47
1:F:388:ASP:C	1:G:376:ASP:OD2	2.53	0.47
1:F:428:PHE:CE1	1:F:439:GLY:N	2.83	0.47
1:F:456:PHE:CD1	1:F:509:LEU:HD12	2.49	0.47
1:G:357:ILE:HG12	1:G:403:ASN:ND2	2.30	0.47
1:G:428:PHE:CE1	1:G:439:GLY:N	2.83	0.47
1:G:428:PHE:HB3	1:G:437:ASP:HA	1.95	0.47
1:H:453:VAL:HG21	1:H:488:ASN:HA	1.95	0.47
1:I:294:LEU:CD1	1:J:273:LEU:HD22	2.43	0.47
1:I:357:ILE:HG12	1:I:403:ASN:ND2	2.30	0.47
1:I:357:ILE:HG12	1:I:403:ASN:HD21	1.80	0.47
1:J:357:ILE:HG12	1:J:403:ASN:HD21	1.80	0.47
1:J:370:MET:HG3	1:J:391:TRP:HH2	1.78	0.47
1:J:451:LYS:HD3	1:J:455:GLU:OE1	2.15	0.47
1:J:453:VAL:HG21	1:J:488:ASN:HA	1.95	0.47
1:J:457:ARG:HA	1:J:457:ARG:NE	2.30	0.47
1:J:464:ASN:HA	1:J:464:ASN:HD22	1.41	0.47
1:K:456:PHE:CD1	1:K:509:LEU:HD12	2.49	0.47
1:K:457:ARG:NE	1:K:457:ARG:HA	2.30	0.47
1:K:472:ASN:HB3	1:K:474:LEU:O	2.14	0.47
1:L:370:MET:HG3	1:L:391:TRP:HH2	1.78	0.47
1:L:450:TYR:CE2	1:L:514:GLN:CG	2.96	0.47
2:M:91:SER:C	2:M:128:GLN:HB3	2.40	0.47
2:O:120:VAL:HB	2:O:133:ILE:HG21	1.95	0.47
2:P:91:SER:C	2:P:128:GLN:HB3	2.40	0.47
2:P:102:LYS:HB2	2:P:107:VAL:HA	1.96	0.47
2:R:128:GLN:HG3	2:R:129:ASN:N	2.29	0.47
2:R:133:ILE:HG13	2:R:134:GLU:N	2.29	0.47
2:S:102:LYS:HB2	2:S:107:VAL:HA	1.96	0.47
2:S:110:PHE:C	2:S:111:ILE:HD12	2.40	0.47
2:V:111:ILE:CG2	2:V:112:GLU:N	2.76	0.47
2:W:110:PHE:C	2:W:111:ILE:HD12	2.40	0.47
2:X:91:SER:C	2:X:128:GLN:HB3	2.40	0.47
1:A:428:PHE:CE1	1:A:439:GLY:N	2.83	0.47
1:B:307:ASN:CB	2:N:162:LEU:CD1	2.93	0.47
1:B:361:LEU:HG	1:B:372:ILE:CG2	2.44	0.47
1:B:402:ARG:O	1:B:422:LEU:HD11	2.14	0.47
1:B:457:ARG:HA	1:B:457:ARG:NE	2.30	0.47
1:D:456:PHE:CD1	1:D:509:LEU:HD12	2.49	0.47
1:F:457:ARG:NE	1:F:457:ARG:HA	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:ASN:HB3	1:F:474:LEU:O	2.14	0.47
1:G:408:GLN:HG2	1:G:413:VAL:HG11	1.95	0.47
1:G:408:GLN:HE22	1:G:408:GLN:HB3	0.98	0.47
1:G:456:PHE:CD1	1:G:509:LEU:HD12	2.49	0.47
1:I:428:PHE:CE1	1:I:439:GLY:N	2.83	0.47
1:I:457:ARG:NE	1:I:457:ARG:HA	2.30	0.47
1:I:464:ASN:HA	1:I:464:ASN:HD22	1.41	0.47
1:L:408:GLN:HG2	1:L:413:VAL:HG11	1.95	0.47
2:N:129:ASN:CG	2:N:147:ILE:HG22	2.40	0.47
2:P:110:PHE:C	2:P:111:ILE:HD12	2.40	0.47
2:P:145:GLU:O	2:P:156:SER:HA	2.13	0.47
2:U:133:ILE:HD12	2:U:143:LEU:CA	2.45	0.47
2:W:129:ASN:CG	2:W:147:ILE:HG22	2.40	0.47
1:C:354:ASP:CA	1:C:383:THR:HG22	2.43	0.47
1:C:445:ASN:H	1:C:445:ASN:ND2	2.13	0.47
1:D:361:LEU:HG	1:D:372:ILE:CG2	2.44	0.47
1:D:472:ASN:HB3	1:D:474:LEU:O	2.14	0.47
1:E:256:GLN:OE1	1:F:230:PHE:C	2.56	0.47
1:E:357:ILE:HG12	1:E:403:ASN:ND2	2.30	0.47
1:F:357:ILE:HG12	1:F:403:ASN:HD21	1.80	0.47
1:G:307:ASN:CB	2:S:162:LEU:CD1	2.93	0.47
1:G:457:ARG:NE	1:G:457:ARG:HA	2.30	0.47
1:H:457:ARG:HA	1:H:457:ARG:NE	2.30	0.47
1:H:490:LEU:CD2	1:H:506:ILE:HD11	2.44	0.47
1:J:256:GLN:OE1	1:K:230:PHE:C	2.56	0.47
1:K:370:MET:HG3	1:K:391:TRP:HH2	1.78	0.47
1:L:408:GLN:HE22	1:L:408:GLN:HB3	0.98	0.47
1:L:457:ARG:NE	1:L:457:ARG:HA	2.30	0.47
2:S:91:SER:C	2:S:128:GLN:HB3	2.40	0.47
2:T:111:ILE:CG2	2:T:112:GLU:N	2.76	0.47
2:U:128:GLN:HG3	2:U:129:ASN:N	2.29	0.47
2:V:129:ASN:CG	2:V:147:ILE:HG22	2.40	0.47
2:W:91:SER:C	2:W:128:GLN:HB3	2.40	0.47
2:X:120:VAL:HB	2:X:133:ILE:HG21	1.95	0.47
1:A:457:ARG:NE	1:A:457:ARG:HA	2.30	0.47
1:D:349:SER:CB	2:P:102:LYS:H	2.28	0.47
1:D:361:LEU:HD23	1:D:372:ILE:HB	1.96	0.47
1:E:451:LYS:HD3	1:E:455:GLU:OE1	2.15	0.47
1:F:406:MET:CE	1:F:415:ILE:HD11	2.42	0.47
1:H:294:LEU:CD1	1:I:273:LEU:HD22	2.43	0.47
1:H:451:LYS:HD3	1:H:455:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:294:LEU:HA	1:K:273:LEU:HD23	1.97	0.47
2:M:129:ASN:CG	2:M:147:ILE:HG22	2.40	0.47
2:N:102:LYS:HB2	2:N:107:VAL:HA	1.96	0.47
2:N:120:VAL:HB	2:N:133:ILE:HG21	1.95	0.47
2:O:102:LYS:HB2	2:O:107:VAL:HA	1.96	0.47
2:Q:102:LYS:HB2	2:Q:107:VAL:HA	1.96	0.47
2:R:110:PHE:C	2:R:111:ILE:HD12	2.40	0.47
2:S:133:ILE:HD12	2:S:143:LEU:CA	2.45	0.47
1:A:294:LEU:CG	1:B:227:ASN:HB2	2.45	0.46
1:B:343:PHE:CG	1:C:469:GLY:HA3	2.50	0.46
1:C:294:LEU:CG	1:D:227:ASN:HB2	2.45	0.46
1:C:307:ASN:CB	2:O:162:LEU:CD1	2.93	0.46
1:D:396:ASP:O	1:D:400:GLN:HG2	2.15	0.46
1:E:294:LEU:HA	1:F:273:LEU:HD23	1.97	0.46
1:E:472:ASN:HB3	1:E:474:LEU:O	2.14	0.46
1:F:354:ASP:CA	1:F:383:THR:HG22	2.43	0.46
1:F:396:ASP:O	1:F:400:GLN:HG2	2.15	0.46
1:F:450:TYR:HB3	1:F:513:ALA:CB	2.46	0.46
1:F:451:LYS:HD3	1:F:455:GLU:OE1	2.15	0.46
1:G:294:LEU:CG	1:H:227:ASN:HB2	2.45	0.46
1:G:382:MET:HE3	1:G:382:MET:HB2	1.76	0.46
1:I:450:TYR:HB3	1:I:513:ALA:CB	2.46	0.46
1:J:357:ILE:HG12	1:J:403:ASN:ND2	2.30	0.46
1:K:294:LEU:CG	1:L:227:ASN:HB2	2.44	0.46
1:K:408:GLN:HG2	1:K:413:VAL:HG11	1.95	0.46
1:L:428:PHE:CE1	1:L:439:GLY:N	2.83	0.46
1:L:456:PHE:CD1	1:L:509:LEU:HD12	2.49	0.46
2:Q:128:GLN:HG3	2:Q:129:ASN:N	2.29	0.46
2:R:84:LYS:N	2:R:84:LYS:HD2	2.31	0.46
2:R:133:ILE:HD12	2:R:143:LEU:CA	2.45	0.46
2:S:84:LYS:N	2:S:84:LYS:HD2	2.31	0.46
2:W:84:LYS:HD2	2:W:84:LYS:N	2.31	0.46
2:X:84:LYS:N	2:X:84:LYS:HD2	2.31	0.46
2:X:110:PHE:C	2:X:111:ILE:HD12	2.40	0.46
1:A:512:PRO:HA	1:A:515:GLN:CD	2.41	0.46
1:B:445:ASN:H	1:B:445:ASN:ND2	2.13	0.46
1:C:451:LYS:HD3	1:C:455:GLU:OE1	2.15	0.46
1:D:357:ILE:CA	1:D:360:ILE:HG12	2.43	0.46
1:D:402:ARG:O	1:D:422:LEU:HD11	2.14	0.46
1:D:445:ASN:H	1:D:445:ASN:ND2	2.13	0.46
1:F:402:ARG:O	1:F:422:LEU:HD11	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:511:VAL:CB	1:H:512:PRO:HD3	2.43	0.46
1:H:512:PRO:HA	1:H:515:GLN:CD	2.41	0.46
1:J:512:PRO:HA	1:J:515:GLN:CD	2.41	0.46
1:K:357:ILE:HG12	1:K:403:ASN:HD21	1.80	0.46
2:O:91:SER:C	2:O:128:GLN:HB3	2.40	0.46
2:Q:100:ILE:HG22	2:Q:101:LEU:H	1.80	0.46
2:T:133:ILE:HD12	2:T:143:LEU:CA	2.45	0.46
1:A:454:GLU:HA	1:A:457:ARG:HG2	1.98	0.46
1:A:485:PRO:HG2	1:A:489:THR:O	2.16	0.46
1:A:490:LEU:CD2	1:A:506:ILE:HD11	2.44	0.46
1:B:349:SER:OG	2:N:102:LYS:HG3	2.12	0.46
1:B:456:PHE:CD1	1:B:509:LEU:HD12	2.49	0.46
1:D:269:LEU:HD23	1:D:269:LEU:O	2.14	0.46
1:D:307:ASN:CB	2:P:162:LEU:CD1	2.93	0.46
1:D:485:PRO:HG2	1:D:489:THR:O	2.16	0.46
1:D:511:VAL:HB	1:D:512:PRO:CD	2.46	0.46
1:E:307:ASN:CB	2:Q:162:LEU:CD1	2.93	0.46
1:E:454:GLU:HA	1:E:457:ARG:HG2	1.98	0.46
1:F:256:GLN:NE2	1:G:231:ARG:CD	2.48	0.46
1:F:307:ASN:CB	2:R:162:LEU:CD1	2.93	0.46
1:F:371:ASN:O	1:F:413:VAL:HG22	2.16	0.46
1:G:371:ASN:O	1:G:413:VAL:HG22	2.15	0.46
1:I:294:LEU:HD11	1:J:227:ASN:HB2	1.98	0.46
1:K:445:ASN:H	1:K:445:ASN:ND2	2.13	0.46
1:K:464:ASN:HA	1:K:464:ASN:HD22	1.41	0.46
1:L:357:ILE:HG12	1:L:403:ASN:HD21	1.80	0.46
1:L:361:LEU:HD23	1:L:372:ILE:HB	1.96	0.46
2:N:100:ILE:HG22	2:N:101:LEU:H	1.80	0.46
2:O:129:ASN:CG	2:O:147:ILE:HG22	2.40	0.46
2:P:128:GLN:HG3	2:P:129:ASN:N	2.29	0.46
2:Q:133:ILE:HA	2:Q:143:LEU:HA	1.97	0.46
2:R:91:SER:C	2:R:128:GLN:HB3	2.40	0.46
2:R:133:ILE:HA	2:R:143:LEU:HA	1.97	0.46
2:T:100:ILE:HG22	2:T:101:LEU:H	1.80	0.46
1:A:357:ILE:HG12	1:A:403:ASN:HD21	1.80	0.46
1:B:357:ILE:HG12	1:B:403:ASN:HD21	1.80	0.46
1:C:357:ILE:CA	1:C:360:ILE:HG12	2.43	0.46
1:C:369:GLY:HA2	1:C:391:TRP:CZ2	2.51	0.46
1:D:357:ILE:HG12	1:D:403:ASN:ND2	2.30	0.46
1:D:454:GLU:HA	1:D:457:ARG:HG2	1.98	0.46
1:E:361:LEU:HD23	1:E:372:ILE:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:457:ARG:HA	1:E:457:ARG:NE	2.30	0.46
1:G:451:LYS:HD3	1:G:455:GLU:OE1	2.15	0.46
1:G:472:ASN:HB3	1:G:474:LEU:O	2.14	0.46
1:H:294:LEU:HD11	1:I:227:ASN:HB2	1.98	0.46
1:H:357:ILE:HG12	1:H:403:ASN:HD21	1.80	0.46
1:I:369:GLY:HA2	1:I:391:TRP:CZ2	2.51	0.46
1:I:456:PHE:CD1	1:I:509:LEU:HD12	2.49	0.46
1:J:408:GLN:HG2	1:J:413:VAL:HG11	1.95	0.46
1:J:445:ASN:H	1:J:445:ASN:ND2	2.13	0.46
1:K:349:SER:CB	2:W:102:LYS:H	2.28	0.46
1:K:357:ILE:CA	1:K:360:ILE:HG12	2.43	0.46
1:K:512:PRO:HA	1:K:515:GLN:CD	2.41	0.46
1:L:357:ILE:HG12	1:L:403:ASN:ND2	2.30	0.46
2:M:84:LYS:N	2:M:84:LYS:HD2	2.31	0.46
2:Q:84:LYS:HD2	2:Q:84:LYS:N	2.31	0.46
2:Q:133:ILE:HD12	2:Q:143:LEU:CA	2.45	0.46
2:T:95:MET:HG2	2:T:113:ALA:CB	2.33	0.46
1:A:450:TYR:HB3	1:A:513:ALA:CB	2.45	0.46
1:A:469:GLY:HA3	1:L:343:PHE:CG	2.50	0.46
1:B:465:ALA:CA	1:B:475:ILE:CD1	2.94	0.46
1:C:284:THR:HB	1:C:285:PRO:HD2	1.98	0.46
1:C:485:PRO:HG2	1:C:489:THR:O	2.16	0.46
1:C:487:THR:HG21	1:D:459:ILE:HG21	1.94	0.46
1:D:294:LEU:HA	1:E:273:LEU:HD23	1.97	0.46
1:E:371:ASN:O	1:E:413:VAL:HG22	2.15	0.46
1:E:464:ASN:HD21	1:E:480:SER:HB3	1.81	0.46
1:F:294:LEU:CG	1:G:227:ASN:HB2	2.45	0.46
1:F:464:ASN:HD21	1:F:480:SER:HB3	1.81	0.46
1:G:343:PHE:CG	1:H:469:GLY:HA3	2.50	0.46
1:G:369:GLY:HA2	1:G:391:TRP:CZ2	2.51	0.46
1:G:464:ASN:HD21	1:G:480:SER:HB3	1.81	0.46
1:H:464:ASN:HD21	1:H:480:SER:HB3	1.81	0.46
1:H:472:ASN:HB3	1:H:474:LEU:O	2.14	0.46
1:I:294:LEU:CG	1:J:227:ASN:HB2	2.45	0.46
1:K:451:LYS:HD3	1:K:455:GLU:OE1	2.15	0.46
1:L:454:GLU:HA	1:L:457:ARG:HG2	1.98	0.46
2:O:84:LYS:HD2	2:O:84:LYS:N	2.31	0.46
2:O:100:ILE:HG22	2:O:101:LEU:H	1.81	0.46
2:Q:110:PHE:C	2:Q:111:ILE:HD12	2.40	0.46
2:S:133:ILE:HA	2:S:143:LEU:HA	1.97	0.46
2:T:84:LYS:HD2	2:T:84:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:95:MET:HG2	2:U:113:ALA:CB	2.33	0.46
2:U:100:ILE:HG22	2:U:101:LEU:H	1.81	0.46
2:V:133:ILE:HD12	2:V:143:LEU:CA	2.45	0.46
2:W:133:ILE:HD12	2:W:143:LEU:CA	2.45	0.46
2:X:133:ILE:HD12	2:X:143:LEU:CA	2.45	0.46
1:B:349:SER:CB	2:N:102:LYS:H	2.28	0.46
1:B:450:TYR:HB3	1:B:513:ALA:CB	2.46	0.46
1:B:485:PRO:HG2	1:B:489:THR:O	2.16	0.46
1:B:512:PRO:HA	1:B:515:GLN:CD	2.41	0.46
1:C:357:ILE:HG12	1:C:403:ASN:ND2	2.30	0.46
1:C:511:VAL:HB	1:C:512:PRO:CD	2.46	0.46
1:D:357:ILE:HG12	1:D:403:ASN:HD21	1.80	0.46
1:D:371:ASN:O	1:D:413:VAL:HG22	2.15	0.46
1:D:450:TYR:HB3	1:D:513:ALA:CB	2.45	0.46
1:D:464:ASN:HD21	1:D:480:SER:HB3	1.81	0.46
1:E:465:ALA:CA	1:E:475:ILE:CD1	2.94	0.46
1:F:369:GLY:HA2	1:F:391:TRP:CZ2	2.51	0.46
1:F:485:PRO:HG2	1:F:489:THR:O	2.16	0.46
1:G:294:LEU:CD1	1:H:273:LEU:HD22	2.43	0.46
1:G:396:ASP:O	1:G:400:GLN:HG2	2.15	0.46
1:H:408:GLN:HE22	1:H:408:GLN:HB3	0.98	0.46
1:I:464:ASN:HD21	1:I:480:SER:HB3	1.81	0.46
1:I:465:ALA:CA	1:I:475:ILE:CD1	2.94	0.46
1:J:294:LEU:CG	1:K:227:ASN:HB2	2.45	0.46
1:K:408:GLN:HE22	1:K:408:GLN:HB3	0.98	0.46
1:K:485:PRO:HG2	1:K:489:THR:O	2.16	0.46
1:L:369:GLY:HA2	1:L:391:TRP:CZ2	2.51	0.46
1:L:396:ASP:O	1:L:400:GLN:HG2	2.15	0.46
2:M:100:ILE:HG22	2:M:101:LEU:H	1.81	0.46
2:N:84:LYS:N	2:N:84:LYS:HD2	2.31	0.46
2:O:128:GLN:HG3	2:O:129:ASN:N	2.29	0.46
2:P:124:ASN:O	2:P:132:ARG:HD3	2.16	0.46
2:P:133:ILE:HA	2:P:143:LEU:HA	1.97	0.46
2:R:100:ILE:HG22	2:R:101:LEU:H	1.81	0.46
2:S:95:MET:HG2	2:S:113:ALA:CB	2.33	0.46
1:A:352:PHE:CD1	1:A:360:ILE:CG2	2.95	0.46
1:A:494:ASP:OD1	1:A:499:ILE:HB	2.16	0.46
1:B:451:LYS:HD3	1:B:455:GLU:OE1	2.15	0.46
1:C:457:ARG:NE	1:C:457:ARG:HA	2.30	0.46
1:G:373:VAL:HG23	1:G:412:ILE:HD11	1.95	0.46
1:G:450:TYR:HB3	1:G:513:ALA:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:512:PRO:HA	1:G:515:GLN:CD	2.41	0.46
1:J:416:ALA:CB	1:J:417:PRO:HD2	2.38	0.46
1:J:465:ALA:CA	1:J:475:ILE:CD1	2.94	0.46
1:K:357:ILE:HG12	1:K:403:ASN:ND2	2.30	0.46
1:K:361:LEU:HD23	1:K:372:ILE:HB	1.96	0.46
1:L:361:LEU:CD2	1:L:372:ILE:CG2	2.94	0.46
2:M:110:PHE:C	2:M:111:ILE:HD12	2.40	0.46
2:Q:91:SER:C	2:Q:128:GLN:HB3	2.40	0.46
2:S:124:ASN:O	2:S:132:ARG:HD3	2.16	0.46
2:T:91:SER:C	2:T:128:GLN:HB3	2.40	0.46
2:V:84:LYS:N	2:V:84:LYS:HD2	2.31	0.46
1:A:357:ILE:HG12	1:A:403:ASN:ND2	2.30	0.46
1:A:371:ASN:O	1:A:413:VAL:HG22	2.15	0.46
1:B:256:GLN:OE1	1:C:230:PHE:C	2.56	0.46
1:C:257:HIS:NE2	1:D:232:LYS:C	2.74	0.46
1:C:396:ASP:O	1:C:400:GLN:HG2	2.15	0.46
1:C:465:ALA:CA	1:C:475:ILE:CD1	2.94	0.46
1:C:512:PRO:HA	1:C:515:GLN:CD	2.41	0.46
1:H:348:ILE:CG2	1:H:349:SER:N	2.79	0.46
1:H:369:GLY:HA2	1:H:391:TRP:CZ2	2.51	0.46
1:H:450:TYR:HB3	1:H:513:ALA:CB	2.46	0.46
1:H:494:ASP:OD1	1:H:499:ILE:HB	2.16	0.46
1:I:494:ASP:OD1	1:I:499:ILE:HB	2.16	0.46
1:J:294:LEU:HD11	1:K:227:ASN:HB2	1.98	0.46
1:J:464:ASN:HD21	1:J:480:SER:HB3	1.81	0.46
1:K:294:LEU:HA	1:L:273:LEU:HD23	1.97	0.46
1:K:371:ASN:O	1:K:413:VAL:HG22	2.15	0.46
1:K:494:ASP:OD1	1:K:499:ILE:HB	2.16	0.46
1:L:371:ASN:O	1:L:413:VAL:HG22	2.16	0.46
2:M:133:ILE:HD12	2:M:143:LEU:CA	2.45	0.46
2:N:91:SER:C	2:N:128:GLN:HB3	2.40	0.46
2:P:133:ILE:HD12	2:P:143:LEU:CA	2.45	0.46
2:T:133:ILE:HA	2:T:143:LEU:HA	1.97	0.46
1:A:361:LEU:CD2	1:A:372:ILE:CG2	2.94	0.46
1:B:454:GLU:HA	1:B:457:ARG:HG2	1.98	0.46
1:B:494:ASP:OD1	1:B:499:ILE:HB	2.16	0.46
1:C:357:ILE:HG12	1:C:403:ASN:HD21	1.80	0.46
1:C:373:VAL:HG23	1:C:412:ILE:HD11	1.95	0.46
1:C:464:ASN:HD21	1:C:480:SER:HB3	1.81	0.46
1:F:294:LEU:CD1	1:G:273:LEU:HD22	2.43	0.46
1:F:512:PRO:HA	1:F:515:GLN:CD	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:348:ILE:CG2	1:G:349:SER:N	2.79	0.46
1:G:357:ILE:HG12	1:G:403:ASN:HD21	1.80	0.46
1:H:294:LEU:CG	1:I:227:ASN:HB2	2.44	0.46
1:H:464:ASN:HA	1:H:464:ASN:HD22	1.41	0.46
1:I:294:LEU:HA	1:J:273:LEU:HD23	1.97	0.46
1:I:408:GLN:HG2	1:I:413:VAL:HG11	1.95	0.46
1:J:388:ASP:OD1	2:V:104:GLY:O	2.34	0.46
1:K:294:LEU:CD1	1:L:273:LEU:HD22	2.43	0.46
1:K:361:LEU:CD2	1:K:372:ILE:CG2	2.94	0.46
1:K:369:GLY:HA2	1:K:391:TRP:CZ2	2.51	0.46
1:K:450:TYR:HB3	1:K:513:ALA:CB	2.46	0.46
1:K:465:ALA:CA	1:K:475:ILE:CD1	2.94	0.46
1:L:450:TYR:HB3	1:L:513:ALA:CB	2.46	0.46
2:X:129:ASN:CG	2:X:147:ILE:HG22	2.40	0.46
1:B:257:HIS:NE2	1:C:232:LYS:C	2.74	0.46
1:B:284:THR:HB	1:B:285:PRO:HD2	1.98	0.46
1:B:511:VAL:HB	1:B:512:PRO:CD	2.46	0.46
1:C:494:ASP:OD1	1:C:499:ILE:HB	2.16	0.46
1:D:369:GLY:HA2	1:D:391:TRP:CZ2	2.51	0.46
1:E:294:LEU:HD11	1:F:227:ASN:HB2	1.98	0.46
1:E:294:LEU:CD1	1:F:273:LEU:HD22	2.43	0.46
1:F:465:ALA:CA	1:F:475:ILE:CD1	2.94	0.46
1:H:396:ASP:O	1:H:400:GLN:HG2	2.15	0.46
1:H:408:GLN:HG2	1:H:413:VAL:HG11	1.95	0.46
1:I:396:ASP:O	1:I:400:GLN:HG2	2.15	0.46
1:I:408:GLN:HE22	1:I:408:GLN:HB3	0.98	0.46
1:J:361:LEU:HD23	1:J:372:ILE:HB	1.96	0.46
1:J:406:MET:HB3	1:K:468:THR:HG21	1.95	0.46
1:J:408:GLN:HE22	1:J:408:GLN:HB3	0.98	0.46
1:J:450:TYR:HB2	1:J:510:ASP:OD1	2.16	0.46
1:L:430:GLN:HE21	1:L:430:GLN:HB3	1.42	0.46
1:L:445:ASN:H	1:L:445:ASN:ND2	2.13	0.46
1:L:450:TYR:HB2	1:L:510:ASP:OD1	2.16	0.46
2:O:133:ILE:HA	2:O:143:LEU:HA	1.97	0.46
2:W:124:ASN:O	2:W:132:ARG:HD3	2.16	0.46
2:W:145:GLU:O	2:W:146:LEU:HD12	2.16	0.46
2:X:124:ASN:O	2:X:132:ARG:HD3	2.16	0.46
1:A:231:ARG:CD	1:L:256:GLN:NE2	2.48	0.45
1:A:396:ASP:O	1:A:400:GLN:HG2	2.15	0.45
1:B:357:ILE:HG12	1:B:403:ASN:ND2	2.30	0.45
1:B:369:GLY:HA2	1:B:391:TRP:CZ2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:ASP:O	1:B:400:GLN:HG2	2.15	0.45
1:D:465:ALA:CA	1:D:475:ILE:CD1	2.94	0.45
1:D:512:PRO:HA	1:D:515:GLN:CD	2.41	0.45
1:E:284:THR:HB	1:E:285:PRO:HD2	1.98	0.45
1:E:369:GLY:HA2	1:E:391:TRP:CZ2	2.51	0.45
1:E:450:TYR:HB2	1:E:510:ASP:OD1	2.16	0.45
1:F:454:GLU:HA	1:F:457:ARG:HG2	1.98	0.45
1:G:494:ASP:OD1	1:G:499:ILE:HB	2.16	0.45
1:H:349:SER:CB	2:T:102:LYS:H	2.28	0.45
1:H:465:ALA:CA	1:H:475:ILE:CD1	2.94	0.45
1:I:388:ASP:OD1	2:U:104:GLY:O	2.34	0.45
1:J:265:LYS:NZ	1:K:245:LEU:CA	2.35	0.45
1:J:349:SER:CB	2:V:102:LYS:H	2.28	0.45
1:J:450:TYR:HB3	1:J:513:ALA:CB	2.45	0.45
1:J:494:ASP:OD1	1:J:499:ILE:HB	2.16	0.45
1:K:293:ARG:HH11	1:L:272:THR:HG21	1.64	0.45
1:K:388:ASP:C	1:L:376:ASP:OD2	2.53	0.45
1:K:454:GLU:HA	1:K:457:ARG:HG2	1.98	0.45
1:K:459:ILE:CD1	1:K:509:LEU:CD1	2.94	0.45
1:K:464:ASN:HD21	1:K:480:SER:HB3	1.81	0.45
2:M:124:ASN:O	2:M:132:ARG:HD3	2.16	0.45
2:Q:124:ASN:O	2:Q:132:ARG:HD3	2.16	0.45
2:T:124:ASN:O	2:T:132:ARG:HD3	2.16	0.45
2:T:128:GLN:HG3	2:T:129:ASN:N	2.29	0.45
2:V:124:ASN:O	2:V:132:ARG:HD3	2.16	0.45
1:A:260:ILE:HD12	1:A:302:ILE:HB	1.99	0.45
1:A:445:ASN:H	1:A:445:ASN:ND2	2.13	0.45
1:B:424:LYS:CD	1:B:428:PHE:CE1	3.00	0.45
1:B:464:ASN:HD21	1:B:480:SER:HB3	1.81	0.45
1:C:388:ASP:OD1	2:O:104:GLY:O	2.34	0.45
1:C:424:LYS:CD	1:C:428:PHE:CE1	3.00	0.45
1:C:450:TYR:HB3	1:C:513:ALA:CB	2.46	0.45
1:D:348:ILE:CG2	1:D:349:SER:N	2.79	0.45
1:D:465:ALA:HA	1:D:475:ILE:HG12	1.98	0.45
1:E:450:TYR:HB3	1:E:513:ALA:CB	2.46	0.45
1:F:361:LEU:HD23	1:F:372:ILE:HB	1.96	0.45
1:G:406:MET:CG	1:H:468:THR:HG21	2.47	0.45
1:G:511:VAL:CB	1:G:512:PRO:HD3	2.43	0.45
1:H:361:LEU:HD23	1:H:372:ILE:HB	1.96	0.45
1:H:371:ASN:O	1:H:413:VAL:HG22	2.15	0.45
1:I:348:ILE:CG2	1:I:349:SER:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:371:ASN:O	1:I:413:VAL:HG22	2.16	0.45
1:I:445:ASN:H	1:I:445:ASN:ND2	2.13	0.45
1:J:260:ILE:HD12	1:J:302:ILE:HB	1.99	0.45
1:K:388:ASP:OD1	2:W:104:GLY:O	2.34	0.45
1:K:396:ASP:O	1:K:400:GLN:HG2	2.15	0.45
1:L:284:THR:HB	1:L:285:PRO:HD2	1.98	0.45
1:L:347:LYS:HE3	2:X:104:GLY:CA	2.35	0.45
1:L:494:ASP:OD1	1:L:499:ILE:HB	2.16	0.45
1:L:512:PRO:HA	1:L:515:GLN:CD	2.41	0.45
2:O:133:ILE:HD12	2:O:143:LEU:CA	2.45	0.45
2:P:100:ILE:HG22	2:P:101:LEU:H	1.81	0.45
2:R:95:MET:HG2	2:R:113:ALA:CB	2.33	0.45
2:X:100:ILE:HG22	2:X:101:LEU:H	1.81	0.45
1:A:227:ASN:HB2	1:L:294:LEU:HD11	1.98	0.45
1:A:294:LEU:HA	1:B:273:LEU:HD23	1.97	0.45
1:A:294:LEU:HD11	1:B:227:ASN:HB2	1.98	0.45
1:A:369:GLY:HA2	1:A:391:TRP:CZ2	2.51	0.45
1:A:465:ALA:CA	1:A:475:ILE:CD1	2.94	0.45
1:B:294:LEU:HD11	1:C:227:ASN:HB2	1.98	0.45
1:B:371:ASN:O	1:B:413:VAL:HG22	2.15	0.45
1:C:348:ILE:CG2	1:C:349:SER:N	2.79	0.45
1:C:454:GLU:HA	1:C:457:ARG:HG2	1.98	0.45
1:D:294:LEU:HD11	1:E:227:ASN:HB2	1.98	0.45
1:D:347:LYS:CE	2:P:104:GLY:N	2.67	0.45
1:D:450:TYR:HB2	1:D:510:ASP:OD1	2.16	0.45
1:E:388:ASP:C	1:F:376:ASP:OD2	2.53	0.45
1:E:512:PRO:HA	1:E:515:GLN:CD	2.41	0.45
1:F:450:TYR:HB2	1:F:510:ASP:OD1	2.16	0.45
1:G:465:ALA:CA	1:G:475:ILE:CD1	2.94	0.45
1:G:481:VAL:O	1:G:481:VAL:HG13	2.17	0.45
1:H:285:PRO:HG2	1:H:324:VAL:HG12	1.99	0.45
1:I:512:PRO:HA	1:I:515:GLN:CD	2.41	0.45
1:J:485:PRO:HG2	1:J:489:THR:O	2.16	0.45
1:L:465:ALA:CA	1:L:475:ILE:CD1	2.94	0.45
2:N:133:ILE:HD12	2:N:143:LEU:CA	2.45	0.45
2:O:97:TYR:CZ	2:O:141:ILE:HD11	2.52	0.45
2:R:126:LEU:HD22	2:R:126:LEU:C	2.42	0.45
2:S:128:GLN:HG3	2:S:129:ASN:N	2.29	0.45
2:T:97:TYR:CZ	2:T:141:ILE:HD11	2.52	0.45
2:U:126:LEU:HD22	2:U:126:LEU:C	2.42	0.45
2:U:133:ILE:HA	2:U:143:LEU:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:TYR:HB2	1:A:510:ASP:OD1	2.16	0.45
1:A:468:THR:HG21	1:L:406:MET:CG	2.46	0.45
1:B:294:LEU:HA	1:C:273:LEU:HD23	1.97	0.45
1:B:450:TYR:CE2	1:B:514:GLN:CG	2.96	0.45
1:C:465:ALA:HA	1:C:475:ILE:HG12	1.98	0.45
1:D:285:PRO:HG2	1:D:324:VAL:HG12	1.99	0.45
1:D:361:LEU:CD2	1:D:372:ILE:CG2	2.94	0.45
1:D:459:ILE:CD1	1:D:509:LEU:CD1	2.94	0.45
1:E:349:SER:CB	2:Q:102:LYS:H	2.28	0.45
1:E:396:ASP:O	1:E:400:GLN:HG2	2.15	0.45
1:E:406:MET:CG	1:F:468:THR:HG21	2.46	0.45
1:E:431:ALA:CB	1:E:436:ALA:CB	2.95	0.45
1:E:485:PRO:HG2	1:E:489:THR:O	2.16	0.45
1:F:284:THR:HB	1:F:285:PRO:HD2	1.98	0.45
1:F:357:ILE:CA	1:F:360:ILE:HG12	2.43	0.45
1:F:431:ALA:CB	1:F:436:ALA:CB	2.95	0.45
1:F:490:LEU:CD2	1:F:506:ILE:HD11	2.44	0.45
1:G:294:LEU:HD11	1:H:227:ASN:HB2	1.98	0.45
1:G:485:PRO:HG2	1:G:489:THR:O	2.16	0.45
1:H:485:PRO:HG2	1:H:489:THR:O	2.16	0.45
1:I:450:TYR:HB2	1:I:510:ASP:OD1	2.16	0.45
1:I:485:PRO:HG2	1:I:489:THR:O	2.16	0.45
1:J:257:HIS:NE2	1:K:232:LYS:C	2.74	0.45
1:J:361:LEU:CD2	1:J:372:ILE:CG2	2.94	0.45
1:J:515:GLN:HE21	1:J:515:GLN:HB3	1.56	0.45
1:K:343:PHE:HB3	1:L:471:ARG:H	1.82	0.45
1:L:459:ILE:CD1	1:L:509:LEU:CD1	2.94	0.45
1:L:464:ASN:HD21	1:L:480:SER:HB3	1.81	0.45
2:N:97:TYR:CZ	2:N:141:ILE:HD11	2.52	0.45
2:N:145:GLU:O	2:N:146:LEU:HD12	2.16	0.45
2:P:84:LYS:N	2:P:84:LYS:HD2	2.31	0.45
2:S:126:LEU:HD22	2:S:126:LEU:C	2.42	0.45
2:T:126:LEU:HD11	2:T:133:ILE:N	2.32	0.45
2:U:84:LYS:N	2:U:84:LYS:HD2	2.31	0.45
1:A:273:LEU:HD22	1:L:294:LEU:CD1	2.43	0.45
1:A:424:LYS:CD	1:A:428:PHE:CE1	3.00	0.45
1:A:464:ASN:HD21	1:A:480:SER:HB3	1.81	0.45
1:A:465:ALA:HA	1:A:475:ILE:HG12	1.98	0.45
1:A:511:VAL:HB	1:A:512:PRO:CD	2.46	0.45
1:B:361:LEU:CD2	1:B:372:ILE:CG2	2.94	0.45
1:B:388:ASP:OD1	2:N:104:GLY:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:VAL:O	1:B:481:VAL:HG13	2.17	0.45
1:B:487:THR:HG21	1:C:459:ILE:HG21	1.93	0.45
1:C:285:PRO:HG2	1:C:324:VAL:HG12	1.99	0.45
1:C:294:LEU:HD11	1:D:227:ASN:HB2	1.98	0.45
1:C:406:MET:CE	1:C:415:ILE:HD11	2.42	0.45
1:D:294:LEU:CD1	1:E:273:LEU:HD22	2.43	0.45
1:D:424:LYS:CE	1:D:441:LEU:HD12	2.17	0.45
1:D:431:ALA:CB	1:D:436:ALA:CB	2.95	0.45
1:D:494:ASP:OD1	1:D:499:ILE:HB	2.16	0.45
1:E:445:ASN:H	1:E:445:ASN:ND2	2.13	0.45
1:E:481:VAL:O	1:E:481:VAL:HG13	2.17	0.45
1:F:294:LEU:HD11	1:G:227:ASN:HB2	1.98	0.45
1:F:430:GLN:HE21	1:F:430:GLN:HB3	1.42	0.45
1:G:349:SER:CB	2:S:102:LYS:H	2.28	0.45
1:G:361:LEU:CD1	1:G:374:ALA:HB2	2.47	0.45
1:H:361:LEU:CD2	1:H:372:ILE:CG2	2.94	0.45
1:H:445:ASN:H	1:H:445:ASN:ND2	2.13	0.45
1:I:260:ILE:HD12	1:I:302:ILE:HB	1.99	0.45
1:I:361:LEU:CD1	1:I:374:ALA:HB2	2.47	0.45
1:I:496:ARG:C	1:I:499:ILE:HG22	2.42	0.45
1:J:361:LEU:CD1	1:J:374:ALA:HB2	2.47	0.45
1:J:369:GLY:HA2	1:J:391:TRP:CZ2	2.51	0.45
1:J:450:TYR:CE2	1:J:514:GLN:CG	2.96	0.45
1:J:496:ARG:C	1:J:499:ILE:HG22	2.42	0.45
1:L:481:VAL:O	1:L:481:VAL:HG13	2.17	0.45
1:L:485:PRO:HG2	1:L:489:THR:O	2.16	0.45
2:N:124:ASN:O	2:N:132:ARG:HD3	2.16	0.45
2:N:133:ILE:HA	2:N:143:LEU:HA	1.97	0.45
2:O:124:ASN:O	2:O:132:ARG:HD3	2.16	0.45
2:U:124:ASN:O	2:U:132:ARG:HD3	2.16	0.45
2:V:145:GLU:O	2:V:146:LEU:HD12	2.16	0.45
1:A:257:HIS:NE2	1:B:232:LYS:C	2.74	0.45
1:A:349:SER:OG	2:M:102:LYS:HG3	2.12	0.45
1:A:357:ILE:CA	1:A:360:ILE:HG12	2.43	0.45
1:A:388:ASP:OD1	2:M:104:GLY:O	2.34	0.45
1:A:471:ARG:H	1:L:343:PHE:HB3	1.82	0.45
1:B:285:PRO:HG2	1:B:324:VAL:HG12	1.99	0.45
1:C:402:ARG:CG	1:C:422:LEU:HD11	2.47	0.45
1:C:459:ILE:CD1	1:C:509:LEU:CD1	2.94	0.45
1:C:494:ASP:OD2	1:C:498:VAL:HB	2.17	0.45
1:D:424:LYS:CD	1:D:428:PHE:CE1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:494:ASP:OD2	1:D:498:VAL:HB	2.17	0.45
1:E:343:PHE:CG	1:F:469:GLY:HA3	2.50	0.45
1:F:388:ASP:OD1	2:R:104:GLY:O	2.34	0.45
1:F:448:LEU:CD1	1:F:506:ILE:CG2	2.94	0.45
1:F:465:ALA:HA	1:F:475:ILE:HG12	1.98	0.45
1:F:494:ASP:OD1	1:F:499:ILE:HB	2.16	0.45
1:G:260:ILE:HD12	1:G:302:ILE:HB	1.99	0.45
1:G:285:PRO:HG2	1:G:324:VAL:HG12	1.99	0.45
1:G:431:ALA:CB	1:G:436:ALA:CB	2.95	0.45
1:H:284:THR:HB	1:H:285:PRO:HD2	1.98	0.45
1:H:361:LEU:CD1	1:H:374:ALA:HB2	2.47	0.45
1:H:406:MET:CB	1:I:468:THR:HG21	2.47	0.45
1:H:406:MET:CE	1:H:415:ILE:HD11	2.42	0.45
1:H:496:ARG:C	1:H:499:ILE:HG22	2.42	0.45
1:I:285:PRO:HG2	1:I:324:VAL:HG12	1.99	0.45
1:I:343:PHE:HB3	1:J:471:ARG:H	1.82	0.45
1:I:481:VAL:O	1:I:481:VAL:HG13	2.17	0.45
1:J:396:ASP:O	1:J:400:GLN:HG2	2.15	0.45
1:K:406:MET:CB	1:L:468:THR:HG21	2.47	0.45
1:K:490:LEU:CD2	1:K:506:ILE:HD11	2.44	0.45
1:K:496:ARG:C	1:K:499:ILE:HG22	2.42	0.45
2:M:133:ILE:HA	2:M:143:LEU:HA	1.97	0.45
2:P:97:TYR:CZ	2:P:141:ILE:HD11	2.52	0.45
2:R:124:ASN:O	2:R:132:ARG:HD3	2.16	0.45
2:R:136:ILE:HG22	2:R:137:THR:H	1.82	0.45
2:S:97:TYR:CZ	2:S:141:ILE:HD11	2.52	0.45
2:S:100:ILE:HG22	2:S:101:LEU:H	1.81	0.45
2:T:145:GLU:O	2:T:146:LEU:HD12	2.16	0.45
2:X:145:GLU:O	2:X:146:LEU:HD12	2.16	0.45
1:A:285:PRO:HG2	1:A:324:VAL:HG12	1.99	0.45
1:A:361:LEU:HD23	1:A:372:ILE:HB	1.96	0.45
1:A:459:ILE:CD1	1:A:509:LEU:CD1	2.94	0.45
1:B:402:ARG:CG	1:B:422:LEU:HD11	2.47	0.45
1:B:459:ILE:CD1	1:B:509:LEU:CD1	2.94	0.45
1:B:494:ASP:OD2	1:B:498:VAL:HB	2.17	0.45
1:C:431:ALA:CB	1:C:436:ALA:CB	2.95	0.45
1:D:402:ARG:CG	1:D:422:LEU:HD11	2.47	0.45
1:E:402:ARG:CG	1:E:422:LEU:HD11	2.47	0.45
1:G:388:ASP:OD1	2:S:104:GLY:O	2.34	0.45
1:H:343:PHE:HB3	1:I:471:ARG:H	1.82	0.45
1:I:284:THR:HB	1:I:285:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:349:SER:CB	2:U:102:LYS:H	2.28	0.45
1:I:450:TYR:CE2	1:I:514:GLN:CG	2.96	0.45
1:J:343:PHE:HB3	1:K:471:ARG:H	1.82	0.45
1:J:406:MET:CG	1:K:468:THR:HG21	2.47	0.45
1:K:361:LEU:CD1	1:K:374:ALA:HB2	2.47	0.45
1:K:481:VAL:O	1:K:481:VAL:HG13	2.17	0.45
1:L:402:ARG:CG	1:L:422:LEU:HD11	2.47	0.45
2:U:136:ILE:HG22	2:U:137:THR:H	1.82	0.45
1:A:284:THR:HB	1:A:285:PRO:HD2	1.98	0.45
1:A:343:PHE:HB3	1:B:471:ARG:H	1.82	0.45
1:A:347:LYS:HE3	2:M:104:GLY:CA	2.35	0.45
1:A:424:LYS:CG	1:A:428:PHE:CZ	2.93	0.45
1:A:467:THR:OG1	1:A:476:SER:HB2	2.17	0.45
1:A:494:ASP:OD2	1:A:498:VAL:HB	2.17	0.45
1:B:448:LEU:CD1	1:B:506:ILE:CG2	2.94	0.45
1:B:467:THR:OG1	1:B:476:SER:HB2	2.17	0.45
1:C:450:TYR:HB2	1:C:510:ASP:OD1	2.16	0.45
1:C:467:THR:OG1	1:C:476:SER:HB2	2.17	0.45
1:C:496:ARG:C	1:C:499:ILE:HG22	2.42	0.45
1:D:256:GLN:OE1	1:E:230:PHE:C	2.56	0.45
1:D:388:ASP:OD1	2:P:104:GLY:O	2.34	0.45
1:E:285:PRO:HG2	1:E:324:VAL:HG12	1.99	0.45
1:E:348:ILE:CG2	1:E:349:SER:N	2.79	0.45
1:E:494:ASP:OD2	1:E:498:VAL:HB	2.17	0.45
1:F:402:ARG:CG	1:F:422:LEU:HD11	2.47	0.45
1:G:450:TYR:HB2	1:G:510:ASP:OD1	2.16	0.45
1:G:496:ARG:C	1:G:499:ILE:HG22	2.42	0.45
1:H:388:ASP:OD1	2:T:104:GLY:O	2.34	0.45
1:H:431:ALA:CB	1:H:436:ALA:CB	2.95	0.45
1:L:260:ILE:HD12	1:L:302:ILE:HB	1.99	0.45
1:L:285:PRO:HG2	1:L:324:VAL:HG12	1.99	0.45
2:N:136:ILE:HG22	2:N:137:THR:H	1.82	0.45
2:O:136:ILE:HG22	2:O:137:THR:H	1.82	0.45
2:O:145:GLU:O	2:O:146:LEU:HD12	2.16	0.45
2:Q:97:TYR:CZ	2:Q:141:ILE:HD11	2.52	0.45
2:Q:126:LEU:HD22	2:Q:126:LEU:C	2.42	0.45
2:V:100:ILE:HG22	2:V:101:LEU:H	1.81	0.45
2:V:126:LEU:HD22	2:V:126:LEU:C	2.42	0.45
2:V:133:ILE:HA	2:V:143:LEU:HA	1.97	0.45
2:W:126:LEU:HD11	2:W:133:ILE:N	2.32	0.45
2:W:136:ILE:HG22	2:W:137:THR:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:136:ILE:HG22	2:X:137:THR:H	1.82	0.45
1:A:240:ILE:HD11	1:A:286:VAL:HG21	1.99	0.45
1:A:402:ARG:CG	1:A:422:LEU:HD11	2.47	0.45
1:B:388:ASP:C	1:C:376:ASP:OD2	2.53	0.45
1:D:260:ILE:HD12	1:D:302:ILE:HB	1.99	0.45
1:D:284:THR:HB	1:D:285:PRO:HD2	1.98	0.45
1:D:361:LEU:HD11	1:D:372:ILE:HG22	1.99	0.45
1:D:496:ARG:C	1:D:499:ILE:HG22	2.42	0.45
1:D:516:VAL:CG2	1:D:517:MET:N	2.74	0.45
1:E:361:LEU:CD2	1:E:372:ILE:CG2	2.94	0.45
1:E:361:LEU:HD11	1:E:372:ILE:HG22	1.99	0.45
1:E:388:ASP:OD1	2:Q:104:GLY:O	2.34	0.45
1:F:255:GLN:CG	1:F:310:LEU:HD23	2.47	0.45
1:G:361:LEU:CD2	1:G:372:ILE:CG2	2.94	0.45
1:G:402:ARG:CG	1:G:422:LEU:HD11	2.47	0.45
1:G:454:GLU:HA	1:G:457:ARG:HG2	1.98	0.45
1:I:402:ARG:CG	1:I:422:LEU:HD11	2.47	0.45
1:K:269:LEU:HD23	1:K:269:LEU:C	2.42	0.45
1:K:294:LEU:HD11	1:L:227:ASN:HB2	1.98	0.45
1:L:361:LEU:CD1	1:L:374:ALA:HB2	2.47	0.45
1:L:424:LYS:CD	1:L:428:PHE:CE1	3.00	0.45
1:L:496:ARG:C	1:L:499:ILE:HG22	2.42	0.45
2:M:145:GLU:O	2:M:146:LEU:HD12	2.16	0.45
2:N:95:MET:HG2	2:N:113:ALA:CB	2.33	0.45
2:S:145:GLU:O	2:S:146:LEU:HD12	2.16	0.45
1:A:269:LEU:HD23	1:A:269:LEU:C	2.42	0.45
1:B:240:ILE:HD11	1:B:286:VAL:HG21	1.99	0.45
1:B:260:ILE:HD12	1:B:302:ILE:HB	1.99	0.45
1:B:343:PHE:HB3	1:C:471:ARG:H	1.82	0.45
1:C:349:SER:CB	2:O:102:LYS:H	2.28	0.45
1:C:361:LEU:CD2	1:C:372:ILE:CG2	2.94	0.45
1:C:498:VAL:HG12	1:C:502:PHE:CE1	2.52	0.45
1:E:467:THR:OG1	1:E:476:SER:HB2	2.17	0.45
1:F:269:LEU:HD23	1:F:269:LEU:C	2.42	0.45
1:F:361:LEU:CD2	1:F:372:ILE:CG2	2.94	0.45
1:G:467:THR:OG1	1:G:476:SER:HB2	2.17	0.45
1:H:255:GLN:CG	1:H:310:LEU:HD23	2.47	0.45
1:H:476:SER:HB3	1:H:477:GLY:H	1.61	0.45
1:H:494:ASP:OD2	1:H:498:VAL:HB	2.17	0.45
1:I:255:GLN:CG	1:I:310:LEU:HD23	2.47	0.45
1:I:424:LYS:CD	1:I:428:PHE:CE1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:269:LEU:HD23	1:J:269:LEU:C	2.42	0.45
1:J:284:THR:HB	1:J:285:PRO:HD2	1.98	0.45
1:J:348:ILE:CG2	1:J:349:SER:N	2.79	0.45
1:K:450:TYR:CE2	1:K:514:GLN:CG	2.96	0.45
1:L:255:GLN:CG	1:L:310:LEU:HD23	2.47	0.45
1:L:269:LEU:HD23	1:L:269:LEU:C	2.42	0.45
1:L:431:ALA:CB	1:L:436:ALA:CB	2.95	0.45
1:L:467:THR:OG1	1:L:476:SER:HB2	2.17	0.45
2:O:126:LEU:HD22	2:O:126:LEU:C	2.42	0.45
2:P:126:LEU:HD11	2:P:133:ILE:N	2.32	0.45
2:V:126:LEU:HD11	2:V:133:ILE:N	2.32	0.45
2:W:100:ILE:HG22	2:W:101:LEU:H	1.80	0.45
2:X:126:LEU:HD22	2:X:126:LEU:C	2.42	0.45
2:X:133:ILE:HA	2:X:143:LEU:HA	1.97	0.45
1:A:273:LEU:HD23	1:L:294:LEU:HA	1.97	0.44
1:A:349:SER:CB	2:M:102:LYS:H	2.28	0.44
1:C:256:GLN:OE1	1:D:230:PHE:C	2.56	0.44
1:C:269:LEU:HD23	1:C:269:LEU:C	2.42	0.44
1:D:382:MET:HB2	1:D:382:MET:HE3	1.76	0.44
1:D:467:THR:OG1	1:D:476:SER:HB2	2.17	0.44
1:E:424:LYS:CD	1:E:428:PHE:CE1	3.00	0.44
1:E:498:VAL:HG12	1:E:502:PHE:CE1	2.53	0.44
1:F:260:ILE:HD12	1:F:302:ILE:HB	1.99	0.44
1:F:494:ASP:OD2	1:F:498:VAL:HB	2.17	0.44
1:F:496:ARG:CA	1:F:499:ILE:HG22	2.47	0.44
1:G:284:THR:HB	1:G:285:PRO:HD2	1.98	0.44
1:G:445:ASN:H	1:G:445:ASN:ND2	2.13	0.44
1:G:465:ALA:HA	1:G:475:ILE:HG12	1.98	0.44
1:H:406:MET:HB3	1:I:468:THR:HG21	1.95	0.44
1:H:454:GLU:HA	1:H:457:ARG:HG2	1.98	0.44
1:H:467:THR:OG1	1:H:476:SER:HB2	2.17	0.44
1:H:498:VAL:HG12	1:H:502:PHE:CE1	2.53	0.44
1:I:431:ALA:CB	1:I:436:ALA:CB	2.95	0.44
1:I:496:ARG:CA	1:I:499:ILE:HG22	2.47	0.44
1:J:343:PHE:CG	1:K:469:GLY:HA3	2.50	0.44
1:J:424:LYS:CD	1:J:440:ALA:CA	2.93	0.44
1:J:454:GLU:HA	1:J:457:ARG:HG2	1.98	0.44
1:J:467:THR:OG1	1:J:476:SER:HB2	2.17	0.44
1:K:255:GLN:CG	1:K:310:LEU:HD23	2.47	0.44
1:K:450:TYR:HB2	1:K:510:ASP:OD1	2.16	0.44
1:K:494:ASP:OD2	1:K:498:VAL:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:ILE:HD11	1:L:286:VAL:HG21	1.99	0.44
1:L:349:SER:CB	2:X:102:LYS:H	2.28	0.44
1:L:361:LEU:HD11	1:L:372:ILE:HG22	1.99	0.44
1:L:511:VAL:HB	1:L:512:PRO:CD	2.46	0.44
2:M:136:ILE:HG22	2:M:137:THR:H	1.82	0.44
2:T:126:LEU:HD22	2:T:126:LEU:C	2.42	0.44
2:U:145:GLU:O	2:U:146:LEU:HD12	2.16	0.44
1:A:388:ASP:OD1	2:M:104:GLY:C	2.61	0.44
1:A:431:ALA:CB	1:A:436:ALA:CB	2.95	0.44
1:B:269:LEU:HD23	1:B:269:LEU:C	2.42	0.44
1:B:450:TYR:HB2	1:B:510:ASP:OD1	2.16	0.44
1:B:465:ALA:HA	1:B:475:ILE:HG12	1.98	0.44
1:B:496:ARG:C	1:B:499:ILE:HG22	2.42	0.44
1:E:494:ASP:OD1	1:E:499:ILE:HB	2.16	0.44
1:E:515:GLN:HE21	1:E:515:GLN:HB3	1.56	0.44
1:F:361:LEU:CD1	1:F:374:ALA:HB2	2.47	0.44
1:F:467:THR:OG1	1:F:476:SER:HB2	2.17	0.44
1:G:343:PHE:HB3	1:H:471:ARG:H	1.82	0.44
1:G:388:ASP:OD1	2:S:104:GLY:C	2.61	0.44
1:G:496:ARG:CA	1:G:499:ILE:HG22	2.47	0.44
1:H:269:LEU:HD23	1:H:269:LEU:C	2.42	0.44
1:H:450:TYR:CE2	1:H:514:GLN:CG	2.96	0.44
1:H:450:TYR:HB2	1:H:510:ASP:OD1	2.16	0.44
1:I:361:LEU:CD2	1:I:372:ILE:CG2	2.94	0.44
1:I:454:GLU:HA	1:I:457:ARG:HG2	1.98	0.44
1:I:467:THR:OG1	1:I:476:SER:HB2	2.17	0.44
1:J:371:ASN:O	1:J:413:VAL:HG22	2.15	0.44
1:J:388:ASP:OD1	2:V:104:GLY:C	2.61	0.44
1:J:481:VAL:O	1:J:481:VAL:HG13	2.17	0.44
1:J:494:ASP:OD2	1:J:498:VAL:HB	2.17	0.44
1:J:498:VAL:HG12	1:J:502:PHE:CE1	2.52	0.44
1:K:257:HIS:NE2	1:L:232:LYS:C	2.74	0.44
1:K:260:ILE:HD12	1:K:302:ILE:HB	1.99	0.44
1:K:284:THR:HB	1:K:285:PRO:HD2	1.98	0.44
1:K:285:PRO:HG2	1:K:324:VAL:HG12	1.99	0.44
1:L:388:ASP:OD1	2:X:104:GLY:O	2.34	0.44
1:L:494:ASP:OD2	1:L:498:VAL:HB	2.17	0.44
2:N:126:LEU:HD11	2:N:133:ILE:N	2.32	0.44
2:S:87:LEU:C	2:S:89:LYS:H	2.26	0.44
2:U:97:TYR:CZ	2:U:141:ILE:HD11	2.52	0.44
2:U:126:LEU:HD11	2:U:133:ILE:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:133:ILE:HA	2:W:143:LEU:HA	1.97	0.44
1:A:361:LEU:HD11	1:A:372:ILE:HG22	1.99	0.44
1:B:352:PHE:CD1	1:B:360:ILE:CG2	2.95	0.44
1:B:373:VAL:HG23	1:B:412:ILE:HD11	1.95	0.44
1:B:431:ALA:CB	1:B:436:ALA:CB	2.95	0.44
1:C:240:ILE:HD11	1:C:286:VAL:HG21	1.99	0.44
1:C:255:GLN:CG	1:C:310:LEU:HD23	2.47	0.44
1:C:260:ILE:HD12	1:C:302:ILE:HB	1.99	0.44
1:D:498:VAL:HG12	1:D:502:PHE:CE1	2.52	0.44
1:E:361:LEU:CD1	1:E:374:ALA:HB2	2.47	0.44
1:F:256:GLN:OE1	1:G:230:PHE:C	2.56	0.44
1:F:445:ASN:H	1:F:445:ASN:ND2	2.13	0.44
1:G:494:ASP:OD2	1:G:498:VAL:HB	2.17	0.44
1:I:269:LEU:HD23	1:I:269:LEU:C	2.42	0.44
1:J:285:PRO:HG2	1:J:324:VAL:HG12	1.99	0.44
1:J:496:ARG:CA	1:J:499:ILE:HG22	2.47	0.44
2:M:126:LEU:HD11	2:M:133:ILE:N	2.32	0.44
2:R:87:LEU:C	2:R:89:LYS:H	2.26	0.44
2:R:97:TYR:CZ	2:R:141:ILE:HD11	2.52	0.44
2:T:87:LEU:C	2:T:89:LYS:H	2.26	0.44
2:W:97:TYR:CZ	2:W:141:ILE:HD11	2.52	0.44
1:A:348:ILE:CG2	1:A:349:SER:N	2.79	0.44
1:A:498:VAL:HG12	1:A:502:PHE:CE1	2.52	0.44
1:B:255:GLN:CG	1:B:310:LEU:HD23	2.47	0.44
1:B:379:ASN:ND2	1:B:422:LEU:HD21	2.33	0.44
1:B:382:MET:HB2	1:B:382:MET:HE3	1.76	0.44
1:B:424:LYS:CG	1:B:428:PHE:CZ	2.93	0.44
1:B:483:ILE:O	1:B:483:ILE:HG13	2.17	0.44
1:B:498:VAL:HG12	1:B:502:PHE:CE1	2.53	0.44
1:C:343:PHE:CG	1:D:469:GLY:HA3	2.50	0.44
1:C:483:ILE:O	1:C:483:ILE:HG13	2.17	0.44
1:E:406:MET:CB	1:F:468:THR:HG21	2.47	0.44
1:E:421:LEU:HD23	1:E:421:LEU:HA	1.80	0.44
1:E:430:GLN:HE21	1:E:430:GLN:HB3	1.42	0.44
1:E:496:ARG:CA	1:E:499:ILE:HG22	2.47	0.44
1:F:496:ARG:C	1:F:499:ILE:HG22	2.42	0.44
1:G:240:ILE:HD11	1:G:286:VAL:HG21	1.99	0.44
1:G:379:ASN:ND2	1:G:422:LEU:HD21	2.33	0.44
1:H:240:ILE:HD11	1:H:286:VAL:HG21	1.99	0.44
1:H:406:MET:CG	1:I:468:THR:HG21	2.46	0.44
1:H:424:LYS:CD	1:H:440:ALA:CA	2.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:LYS:CE	1:H:441:LEU:HD12	2.16	0.44
1:H:481:VAL:O	1:H:481:VAL:HG13	2.17	0.44
1:I:370:MET:SD	1:I:413:VAL:HG11	2.58	0.44
1:I:382:MET:HB2	1:I:382:MET:HE3	1.76	0.44
1:I:465:ALA:HA	1:I:475:ILE:HG12	1.98	0.44
1:J:402:ARG:CG	1:J:422:LEU:HD11	2.47	0.44
1:K:361:LEU:HD11	1:K:372:ILE:HG22	1.99	0.44
1:K:424:LYS:CD	1:K:428:PHE:CE1	3.00	0.44
1:K:498:VAL:HG12	1:K:502:PHE:CE1	2.53	0.44
1:L:424:LYS:CD	1:L:440:ALA:CA	2.93	0.44
1:L:424:LYS:CG	1:L:428:PHE:CZ	2.93	0.44
1:L:465:ALA:HA	1:L:475:ILE:HG12	1.98	0.44
2:N:126:LEU:HD22	2:N:126:LEU:C	2.42	0.44
2:P:126:LEU:HD22	2:P:126:LEU:C	2.42	0.44
2:P:136:ILE:HG22	2:P:137:THR:H	1.82	0.44
2:R:145:GLU:O	2:R:146:LEU:HD12	2.16	0.44
2:S:126:LEU:HD11	2:S:133:ILE:N	2.32	0.44
2:U:87:LEU:C	2:U:89:LYS:H	2.26	0.44
2:W:126:LEU:HD22	2:W:126:LEU:C	2.42	0.44
1:A:255:GLN:CG	1:A:310:LEU:HD23	2.47	0.44
1:A:361:LEU:CD1	1:A:374:ALA:HB2	2.47	0.44
1:A:379:ASN:ND2	1:A:422:LEU:HD21	2.33	0.44
1:A:483:ILE:O	1:A:483:ILE:HG13	2.17	0.44
1:C:294:LEU:HA	1:D:273:LEU:HD23	1.97	0.44
1:C:343:PHE:HB3	1:D:471:ARG:H	1.82	0.44
1:C:361:LEU:HD11	1:C:372:ILE:HG22	1.99	0.44
1:C:371:ASN:O	1:C:413:VAL:HG22	2.16	0.44
1:D:483:ILE:O	1:D:483:ILE:HG13	2.17	0.44
1:E:255:GLN:CG	1:E:310:LEU:HD23	2.47	0.44
1:E:382:MET:HE3	1:E:382:MET:HB2	1.76	0.44
1:E:431:ALA:HB1	1:E:436:ALA:CB	2.48	0.44
1:E:483:ILE:O	1:E:483:ILE:HG13	2.17	0.44
1:E:496:ARG:C	1:E:499:ILE:HG22	2.42	0.44
1:F:388:ASP:OD1	2:R:104:GLY:C	2.61	0.44
1:G:361:LEU:HD23	1:G:361:LEU:O	2.18	0.44
1:G:464:ASN:HA	1:G:464:ASN:HD22	1.41	0.44
1:H:379:ASN:ND2	1:H:422:LEU:HD21	2.33	0.44
1:H:431:ALA:HB1	1:H:436:ALA:CB	2.48	0.44
1:H:496:ARG:CA	1:H:499:ILE:HG22	2.47	0.44
1:I:388:ASP:OD1	2:U:104:GLY:C	2.61	0.44
1:J:431:ALA:CB	1:J:436:ALA:CB	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:467:THR:OG1	1:K:476:SER:HB2	2.17	0.44
2:O:126:LEU:HD11	2:O:133:ILE:N	2.32	0.44
2:P:145:GLU:O	2:P:146:LEU:HD12	2.16	0.44
2:V:95:MET:HG2	2:V:113:ALA:CB	2.33	0.44
2:V:136:ILE:HG22	2:V:137:THR:H	1.82	0.44
2:X:97:TYR:CZ	2:X:141:ILE:HD11	2.52	0.44
1:B:361:LEU:CD1	1:B:374:ALA:HB2	2.47	0.44
1:C:406:MET:CG	1:D:468:THR:HG21	2.46	0.44
1:C:481:VAL:O	1:C:481:VAL:HG13	2.17	0.44
1:D:269:LEU:HD23	1:D:269:LEU:C	2.42	0.44
1:D:460:LEU:O	1:D:464:ASN:HB2	2.18	0.44
1:E:465:ALA:HA	1:E:475:ILE:HG12	1.98	0.44
1:F:361:LEU:HD11	1:F:372:ILE:HG22	1.99	0.44
1:F:424:LYS:CD	1:F:428:PHE:CE1	3.00	0.44
1:F:431:ALA:HB1	1:F:436:ALA:CB	2.48	0.44
1:F:498:VAL:HG12	1:F:502:PHE:CE1	2.52	0.44
1:G:255:GLN:CG	1:G:310:LEU:HD23	2.47	0.44
1:G:424:LYS:CD	1:G:428:PHE:CE1	3.00	0.44
1:G:431:ALA:HB1	1:G:436:ALA:CB	2.48	0.44
1:H:349:SER:OG	2:T:102:LYS:HG3	2.12	0.44
1:H:460:LEU:O	1:H:464:ASN:HB2	2.18	0.44
1:I:431:ALA:HB1	1:I:436:ALA:CB	2.48	0.44
1:I:460:LEU:O	1:I:464:ASN:HB2	2.18	0.44
1:I:490:LEU:CD2	1:I:506:ILE:HD11	2.44	0.44
1:I:498:VAL:HG12	1:I:502:PHE:CE1	2.52	0.44
1:J:406:MET:CE	1:J:415:ILE:HD11	2.42	0.44
1:J:465:ALA:HA	1:J:475:ILE:HG12	1.98	0.44
1:K:431:ALA:CB	1:K:436:ALA:CB	2.95	0.44
1:L:388:ASP:OD1	2:X:104:GLY:C	2.61	0.44
1:L:498:VAL:HG12	1:L:502:PHE:CE1	2.52	0.44
2:M:87:LEU:C	2:M:89:LYS:H	2.26	0.44
2:M:126:LEU:HD22	2:M:126:LEU:C	2.42	0.44
2:Q:87:LEU:C	2:Q:89:LYS:H	2.26	0.44
2:Q:126:LEU:HD11	2:Q:133:ILE:N	2.32	0.44
2:R:126:LEU:HD11	2:R:133:ILE:N	2.32	0.44
2:V:87:LEU:C	2:V:89:LYS:H	2.26	0.44
1:A:294:LEU:CD1	1:B:273:LEU:HD22	2.43	0.44
1:B:295:ASN:HD21	1:C:270:PRO:HD3	1.27	0.44
1:C:361:LEU:CD1	1:C:374:ALA:HB2	2.47	0.44
1:D:255:GLN:CG	1:D:310:LEU:HD23	2.47	0.44
1:D:343:PHE:HB3	1:E:471:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:388:ASP:OD1	2:P:104:GLY:C	2.61	0.44
1:D:431:ALA:HB1	1:D:436:ALA:CB	2.48	0.44
1:E:269:LEU:HD23	1:E:269:LEU:C	2.42	0.44
1:E:343:PHE:HB3	1:F:471:ARG:H	1.82	0.44
1:F:285:PRO:HG2	1:F:324:VAL:HG12	1.99	0.44
1:F:343:PHE:HB3	1:G:471:ARG:H	1.82	0.44
1:G:269:LEU:HD23	1:G:269:LEU:C	2.42	0.44
1:G:498:VAL:HG12	1:G:502:PHE:CE1	2.52	0.44
1:G:515:GLN:HE21	1:G:515:GLN:HB3	1.56	0.44
1:H:260:ILE:HD12	1:H:302:ILE:HB	1.99	0.44
1:H:448:LEU:CD1	1:H:506:ILE:CG2	2.94	0.44
1:I:240:ILE:HD11	1:I:286:VAL:HG21	1.99	0.44
1:J:361:LEU:HD11	1:J:372:ILE:HG22	1.99	0.44
1:K:240:ILE:HD11	1:K:286:VAL:HG21	1.99	0.44
1:K:361:LEU:HD23	1:K:361:LEU:O	2.18	0.44
1:K:388:ASP:OD1	2:W:104:GLY:C	2.61	0.44
1:K:402:ARG:CG	1:K:422:LEU:HD11	2.47	0.44
1:K:511:VAL:HB	1:K:512:PRO:CD	2.46	0.44
1:K:516:VAL:CG2	1:K:517:MET:N	2.74	0.44
1:L:483:ILE:O	1:L:483:ILE:HG13	2.17	0.44
2:M:97:TYR:CZ	2:M:141:ILE:HD11	2.52	0.44
2:Q:145:GLU:O	2:Q:146:LEU:HD12	2.16	0.44
2:X:87:LEU:C	2:X:89:LYS:H	2.26	0.44
2:X:98:VAL:CG1	2:X:112:GLU:HB3	2.46	0.44
2:X:126:LEU:HD11	2:X:133:ILE:N	2.32	0.44
1:A:448:LEU:CD1	1:A:506:ILE:CG2	2.94	0.44
1:C:370:MET:SD	1:C:413:VAL:HG11	2.58	0.44
1:C:379:ASN:ND2	1:C:422:LEU:HD21	2.33	0.44
1:D:361:LEU:CD1	1:D:374:ALA:HB2	2.47	0.44
1:D:496:ARG:CA	1:D:499:ILE:HG22	2.47	0.44
1:F:240:ILE:HD11	1:F:286:VAL:HG21	1.99	0.44
1:F:379:ASN:ND2	1:F:422:LEU:HD21	2.33	0.44
1:F:483:ILE:O	1:F:483:ILE:HG13	2.17	0.44
1:H:402:ARG:CG	1:H:422:LEU:HD11	2.47	0.44
1:I:361:LEU:HD11	1:I:372:ILE:HG22	1.99	0.44
1:J:424:LYS:CD	1:J:428:PHE:CE1	3.00	0.44
1:A:295:ASN:HD21	1:B:270:PRO:HD3	1.27	0.44
1:A:468:THR:HG22	1:L:406:MET:HB3	1.96	0.44
1:A:496:ARG:C	1:A:499:ILE:HG22	2.42	0.44
1:B:460:LEU:O	1:B:464:ASN:HB2	2.18	0.44
1:B:496:ARG:CA	1:B:499:ILE:HG22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:496:ARG:CA	1:C:499:ILE:HG22	2.47	0.44
1:D:240:ILE:HD11	1:D:286:VAL:HG21	1.99	0.44
1:D:370:MET:SD	1:D:413:VAL:HG11	2.58	0.44
1:D:490:LEU:CD2	1:D:506:ILE:HD11	2.44	0.44
1:E:379:ASN:ND2	1:E:422:LEU:HD21	2.33	0.44
1:E:388:ASP:OD1	2:Q:104:GLY:C	2.61	0.44
1:F:348:ILE:CG2	1:F:349:SER:N	2.79	0.44
1:F:481:VAL:O	1:F:481:VAL:HG13	2.17	0.44
1:G:424:LYS:CD	1:G:440:ALA:CA	2.93	0.44
1:G:460:LEU:O	1:G:464:ASN:HB2	2.18	0.44
1:H:361:LEU:HD11	1:H:372:ILE:HG22	1.99	0.44
1:H:388:ASP:OD1	2:T:104:GLY:C	2.61	0.44
1:H:465:ALA:HA	1:H:475:ILE:HG12	1.98	0.44
1:I:361:LEU:HD23	1:I:361:LEU:O	2.18	0.44
1:J:370:MET:SD	1:J:413:VAL:HG11	2.58	0.44
1:J:431:ALA:HB1	1:J:436:ALA:CB	2.48	0.44
1:J:460:LEU:O	1:J:464:ASN:HB2	2.18	0.44
1:K:496:ARG:CA	1:K:499:ILE:HG22	2.47	0.44
1:L:348:ILE:CG2	1:L:349:SER:N	2.79	0.44
1:L:361:LEU:HD23	1:L:361:LEU:O	2.18	0.44
1:L:428:PHE:HE1	1:L:439:GLY:CA	2.31	0.44
2:N:87:LEU:C	2:N:89:LYS:H	2.26	0.44
2:V:97:TYR:CZ	2:V:141:ILE:HD11	2.52	0.44
2:W:87:LEU:C	2:W:89:LYS:H	2.26	0.44
1:A:343:PHE:CG	1:B:469:GLY:HA3	2.50	0.43
1:A:361:LEU:HD23	1:A:361:LEU:O	2.18	0.43
1:A:430:GLN:HE21	1:A:430:GLN:HB3	1.42	0.43
1:B:361:LEU:HD11	1:B:372:ILE:HG22	1.99	0.43
1:B:406:MET:CB	1:C:468:THR:HG21	2.47	0.43
1:C:389:VAL:CG1	1:C:393:GLN:HB3	2.48	0.43
1:C:431:ALA:HB1	1:C:436:ALA:CB	2.48	0.43
1:D:408:GLN:HG2	1:D:413:VAL:HG11	1.95	0.43
1:E:260:ILE:HD12	1:E:302:ILE:HB	1.99	0.43
1:E:448:LEU:CD1	1:E:506:ILE:CG2	2.94	0.43
1:F:450:TYR:CE2	1:F:514:GLN:CG	2.96	0.43
1:G:256:GLN:OE1	1:H:230:PHE:C	2.56	0.43
1:G:347:LYS:HE3	2:S:104:GLY:CA	2.35	0.43
1:G:349:SER:OG	2:S:102:LYS:HG3	2.12	0.43
1:G:370:MET:SD	1:G:413:VAL:HG11	2.58	0.43
1:H:424:LYS:CD	1:H:428:PHE:CE1	3.00	0.43
1:I:379:ASN:ND2	1:I:422:LEU:HD21	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:255:GLN:CG	1:J:310:LEU:HD23	2.47	0.43
1:K:389:VAL:CG1	1:K:393:GLN:HB3	2.48	0.43
2:O:87:LEU:C	2:O:89:LYS:H	2.26	0.43
2:S:98:VAL:CG1	2:S:112:GLU:HB3	2.46	0.43
1:A:373:VAL:HG23	1:A:412:ILE:HD11	1.95	0.43
1:A:406:MET:HB3	1:B:468:THR:HG22	1.96	0.43
1:A:496:ARG:CA	1:A:499:ILE:HG22	2.47	0.43
1:B:406:MET:CE	1:B:415:ILE:HD11	2.42	0.43
1:E:361:LEU:HD23	1:E:361:LEU:O	2.18	0.43
1:F:373:VAL:HG23	1:F:412:ILE:HD11	1.95	0.43
1:F:424:LYS:CD	1:F:440:ALA:CA	2.93	0.43
1:G:347:LYS:C	1:G:348:ILE:HD12	2.43	0.43
1:I:237:ALA:HB2	1:I:325:LEU:HD23	2.00	0.43
1:I:494:ASP:OD2	1:I:498:VAL:HB	2.17	0.43
1:J:349:SER:OG	2:V:102:LYS:HG3	2.12	0.43
1:J:388:ASP:C	1:K:376:ASP:OD2	2.53	0.43
1:J:389:VAL:CG1	1:J:393:GLN:HB3	2.48	0.43
1:K:348:ILE:CG2	1:K:349:SER:N	2.79	0.43
1:K:465:ALA:HA	1:K:475:ILE:HG12	1.98	0.43
1:L:389:VAL:CG1	1:L:393:GLN:HB3	2.48	0.43
1:L:515:GLN:HE21	1:L:515:GLN:HB3	1.56	0.43
2:P:87:LEU:C	2:P:89:LYS:H	2.26	0.43
2:Q:158:LYS:HG2	2:Q:159:ALA:N	2.34	0.43
2:S:136:ILE:HG22	2:S:137:THR:H	1.82	0.43
2:T:145:GLU:HG3	2:T:146:LEU:N	2.34	0.43
1:B:389:VAL:CG1	1:B:393:GLN:HB3	2.48	0.43
1:C:388:ASP:OD1	2:O:104:GLY:C	2.61	0.43
1:D:361:LEU:HD23	1:D:361:LEU:O	2.18	0.43
1:D:428:PHE:HE1	1:D:439:GLY:CA	2.31	0.43
1:F:349:SER:CB	2:R:102:LYS:H	2.28	0.43
1:F:361:LEU:HD23	1:F:361:LEU:O	2.18	0.43
1:F:428:PHE:HE1	1:F:439:GLY:CA	2.31	0.43
1:G:483:ILE:O	1:G:483:ILE:HG13	2.17	0.43
1:H:257:HIS:HD2	1:I:232:LYS:HB2	1.78	0.43
1:J:237:ALA:HB2	1:J:325:LEU:HD23	2.00	0.43
1:J:240:ILE:HD11	1:J:286:VAL:HG21	1.99	0.43
1:J:428:PHE:HE1	1:J:439:GLY:CA	2.31	0.43
1:J:511:VAL:HB	1:J:512:PRO:CD	2.46	0.43
2:M:158:LYS:HG2	2:M:159:ALA:N	2.34	0.43
2:V:158:LYS:HG2	2:V:159:ALA:N	2.34	0.43
1:A:465:ALA:C	1:A:467:THR:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:ASP:OD1	2:N:104:GLY:C	2.61	0.43
1:B:424:LYS:CD	1:B:440:ALA:CA	2.93	0.43
1:C:396:ASP:OD2	1:D:467:THR:CG2	2.41	0.43
1:C:465:ALA:C	1:C:467:THR:H	2.27	0.43
1:C:476:SER:HB3	1:C:477:GLY:H	1.61	0.43
1:D:389:VAL:CG1	1:D:393:GLN:HB3	2.48	0.43
1:D:464:ASN:HA	1:D:464:ASN:HD22	1.41	0.43
1:F:382:MET:HE3	1:F:382:MET:HB2	1.76	0.43
1:H:237:ALA:HB2	1:H:325:LEU:HD23	2.00	0.43
1:H:347:LYS:C	1:H:348:ILE:HD12	2.44	0.43
1:I:352:PHE:CD1	1:I:360:ILE:CG2	2.95	0.43
1:J:347:LYS:C	1:J:348:ILE:HD12	2.43	0.43
1:K:237:ALA:HB2	1:K:325:LEU:HD23	2.00	0.43
1:K:265:LYS:NZ	1:L:245:LEU:CA	2.35	0.43
1:K:431:ALA:HB1	1:K:436:ALA:CB	2.48	0.43
1:L:379:ASN:ND2	1:L:422:LEU:HD21	2.33	0.43
1:L:465:ALA:C	1:L:467:THR:H	2.27	0.43
2:N:158:LYS:HG2	2:N:159:ALA:N	2.34	0.43
2:P:158:LYS:HG2	2:P:159:ALA:N	2.34	0.43
2:U:145:GLU:HG3	2:U:146:LEU:N	2.34	0.43
1:A:232:LYS:C	1:L:257:HIS:NE2	2.74	0.43
1:A:370:MET:SD	1:A:413:VAL:HG11	2.58	0.43
1:A:389:VAL:CG1	1:A:393:GLN:HB3	2.48	0.43
1:A:464:ASN:HA	1:A:464:ASN:HD22	1.41	0.43
1:A:487:THR:HG21	1:B:459:ILE:HG21	1.94	0.43
1:A:507:ASP:O	1:A:511:VAL:HG23	2.19	0.43
1:B:406:MET:CG	1:C:468:THR:HG21	2.46	0.43
1:B:424:LYS:HG2	1:B:428:PHE:CE2	2.54	0.43
1:D:265:LYS:CE	1:E:245:LEU:HB3	2.26	0.43
1:D:406:MET:HB3	1:E:468:THR:HG22	1.96	0.43
1:F:460:LEU:O	1:F:464:ASN:HB2	2.18	0.43
1:G:361:LEU:HD11	1:G:372:ILE:HG22	1.99	0.43
1:J:424:LYS:CG	1:J:428:PHE:CZ	2.93	0.43
2:O:145:GLU:HG3	2:O:146:LEU:N	2.34	0.43
2:O:158:LYS:HG2	2:O:159:ALA:N	2.34	0.43
2:S:145:GLU:HG3	2:S:146:LEU:N	2.34	0.43
2:S:158:LYS:HG2	2:S:159:ALA:N	2.34	0.43
2:W:158:LYS:HG2	2:W:159:ALA:N	2.34	0.43
1:A:406:MET:CG	1:B:468:THR:HG21	2.47	0.43
1:B:361:LEU:HD23	1:B:361:LEU:O	2.18	0.43
1:B:370:MET:SD	1:B:413:VAL:HG11	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:431:ALA:HB1	1:B:436:ALA:CB	2.48	0.43
1:B:507:ASP:O	1:B:511:VAL:HG23	2.19	0.43
1:C:347:LYS:C	1:C:348:ILE:HD12	2.43	0.43
1:C:424:LYS:HG2	1:C:428:PHE:CE2	2.54	0.43
1:D:406:MET:CB	1:E:468:THR:HG21	2.47	0.43
1:E:240:ILE:HD11	1:E:286:VAL:HG21	1.99	0.43
1:F:370:MET:SD	1:F:413:VAL:HG11	2.58	0.43
1:H:370:MET:SD	1:H:413:VAL:HG11	2.58	0.43
1:I:349:SER:OG	2:U:102:LYS:HG3	2.12	0.43
1:I:389:VAL:CG1	1:I:393:GLN:HB3	2.48	0.43
1:J:448:LEU:CD1	1:J:506:ILE:CG2	2.94	0.43
1:J:465:ALA:C	1:J:467:THR:H	2.27	0.43
1:K:347:LYS:C	1:K:348:ILE:HD12	2.44	0.43
1:K:370:MET:SD	1:K:413:VAL:HG11	2.58	0.43
1:K:428:PHE:HE1	1:K:439:GLY:CA	2.31	0.43
1:K:460:LEU:O	1:K:464:ASN:HB2	2.18	0.43
1:K:483:ILE:O	1:K:483:ILE:HG13	2.17	0.43
1:L:370:MET:SD	1:L:413:VAL:HG11	2.58	0.43
1:L:373:VAL:HG23	1:L:412:ILE:HD11	1.95	0.43
2:R:145:GLU:HG3	2:R:146:LEU:N	2.34	0.43
2:T:158:LYS:HG2	2:T:159:ALA:N	2.34	0.43
2:W:95:MET:HG2	2:W:113:ALA:CB	2.33	0.43
1:B:347:LYS:C	1:B:348:ILE:HD12	2.44	0.43
1:B:428:PHE:CD1	1:B:437:ASP:O	2.72	0.43
1:C:382:MET:HB2	1:C:382:MET:HE3	1.76	0.43
1:D:473:THR:CG2	1:D:474:LEU:N	2.82	0.43
1:E:370:MET:SD	1:E:413:VAL:HG11	2.58	0.43
1:F:473:THR:CG2	1:F:474:LEU:N	2.82	0.43
1:H:416:ALA:CB	1:H:417:PRO:HD2	2.38	0.43
1:I:507:ASP:O	1:I:511:VAL:HG23	2.19	0.43
1:J:361:LEU:HD23	1:J:361:LEU:O	2.18	0.43
1:K:428:PHE:CD1	1:K:437:ASP:O	2.72	0.43
1:L:496:ARG:CA	1:L:499:ILE:HG22	2.47	0.43
2:N:145:GLU:HG3	2:N:146:LEU:N	2.34	0.43
2:P:162:LEU:O	2:P:163:LEU:C	2.62	0.43
2:V:145:GLU:HG3	2:V:146:LEU:N	2.34	0.43
1:A:424:LYS:HG2	1:A:428:PHE:CE2	2.54	0.43
1:A:424:LYS:CG	1:A:428:PHE:CE1	3.02	0.43
1:B:473:THR:CG2	1:B:474:LEU:N	2.82	0.43
1:C:295:ASN:HD21	1:D:270:PRO:HD3	1.27	0.43
1:D:379:ASN:ND2	1:D:422:LEU:HD21	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:447:GLN:NE2	1:E:505:LEU:HD13	2.34	0.43
1:E:406:MET:CE	1:E:415:ILE:HD11	2.42	0.43
1:E:447:GLN:NE2	1:F:505:LEU:HD13	2.34	0.43
1:F:347:LYS:C	1:F:348:ILE:HD12	2.43	0.43
1:F:361:LEU:CG	1:F:372:ILE:CG2	2.97	0.43
1:F:406:MET:CG	1:G:468:THR:HG21	2.46	0.43
1:G:237:ALA:HB2	1:G:325:LEU:HD23	2.00	0.43
1:H:343:PHE:CG	1:I:469:GLY:HA3	2.50	0.43
1:H:483:ILE:O	1:H:483:ILE:HG13	2.17	0.43
1:H:507:ASP:O	1:H:511:VAL:HG23	2.19	0.43
1:I:428:PHE:HE1	1:I:439:GLY:CA	2.31	0.43
1:J:379:ASN:ND2	1:J:422:LEU:HD21	2.33	0.43
1:J:492:VAL:CG1	1:J:499:ILE:CG1	2.94	0.43
1:K:361:LEU:CG	1:K:372:ILE:CG2	2.97	0.43
1:L:237:ALA:HB2	1:L:325:LEU:HD23	2.00	0.43
1:L:431:ALA:HB1	1:L:436:ALA:CB	2.48	0.43
2:O:141:ILE:HG13	2:O:161:LEU:CD1	2.49	0.43
2:Q:136:ILE:HG22	2:Q:137:THR:H	1.82	0.43
2:V:98:VAL:CG1	2:V:112:GLU:HB3	2.46	0.43
1:A:347:LYS:C	1:A:348:ILE:HD12	2.43	0.43
1:A:404:LEU:HD13	1:A:419:ASP:OD2	2.19	0.43
1:A:460:LEU:O	1:A:464:ASN:HB2	2.18	0.43
1:A:492:VAL:CG1	1:A:499:ILE:CG1	2.94	0.43
1:B:348:ILE:CG2	1:B:349:SER:N	2.79	0.43
1:B:361:LEU:CD2	1:B:361:LEU:C	2.92	0.43
1:B:428:PHE:HE1	1:B:439:GLY:CA	2.31	0.43
1:D:515:GLN:HE21	1:D:515:GLN:HB3	1.56	0.43
1:E:361:LEU:CD2	1:E:361:LEU:C	2.92	0.43
1:E:424:LYS:CD	1:E:440:ALA:CA	2.93	0.43
1:F:465:ALA:C	1:F:467:THR:H	2.27	0.43
1:G:507:ASP:O	1:G:511:VAL:HG23	2.19	0.43
1:H:352:PHE:CD1	1:H:360:ILE:CG2	2.95	0.43
1:H:389:VAL:CG1	1:H:393:GLN:HB3	2.48	0.43
1:I:511:VAL:HB	1:I:512:PRO:CD	2.46	0.43
1:J:406:MET:CB	1:K:468:THR:HG21	2.47	0.43
1:K:349:SER:OG	2:W:102:LYS:HG3	2.12	0.43
2:N:162:LEU:O	2:N:163:LEU:C	2.62	0.43
2:Q:95:MET:HG2	2:Q:113:ALA:CB	2.33	0.43
2:R:141:ILE:HG13	2:R:161:LEU:CD1	2.49	0.43
2:X:141:ILE:HG13	2:X:161:LEU:CD1	2.49	0.43
2:X:158:LYS:HG2	2:X:159:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:GLN:CD	1:B:231:ARG:HD2	2.29	0.43
1:A:431:ALA:HB1	1:A:436:ALA:CB	2.48	0.43
1:A:473:THR:CG2	1:A:474:LEU:N	2.82	0.43
1:A:481:VAL:O	1:A:481:VAL:HG13	2.17	0.43
1:B:447:GLN:NE2	1:C:505:LEU:HD13	2.34	0.43
1:C:447:GLN:NE2	1:D:505:LEU:HD13	2.34	0.43
1:C:473:THR:CG2	1:C:474:LEU:N	2.82	0.43
1:D:347:LYS:C	1:D:348:ILE:HD12	2.43	0.43
1:D:396:ASP:OD2	1:E:467:THR:CG2	2.41	0.43
1:D:424:LYS:HG2	1:D:428:PHE:CE2	2.54	0.43
1:D:465:ALA:C	1:D:467:THR:H	2.27	0.43
1:E:389:VAL:CG1	1:E:393:GLN:HB3	2.48	0.43
1:E:428:PHE:HE1	1:E:439:GLY:CA	2.31	0.43
1:F:464:ASN:HA	1:F:464:ASN:HD22	1.41	0.43
1:G:450:TYR:CE2	1:G:514:GLN:CG	2.96	0.43
1:G:459:ILE:CD1	1:G:509:LEU:CD1	2.94	0.43
1:H:361:LEU:HD23	1:H:361:LEU:O	2.18	0.43
1:H:388:ASP:OD1	2:T:104:GLY:CA	2.67	0.43
1:H:428:PHE:HE1	1:H:439:GLY:CA	2.31	0.43
1:H:465:ALA:C	1:H:467:THR:H	2.27	0.43
1:H:515:GLN:HE21	1:H:515:GLN:HB3	1.56	0.43
1:I:476:SER:HB3	1:I:477:GLY:H	1.61	0.43
1:J:293:ARG:HH11	1:K:272:THR:HG21	1.64	0.43
1:J:352:PHE:CD1	1:J:360:ILE:CG2	2.95	0.43
1:J:404:LEU:HD13	1:J:419:ASP:OD2	2.19	0.43
1:K:379:ASN:ND2	1:K:422:LEU:HD21	2.33	0.43
1:L:460:LEU:O	1:L:464:ASN:HB2	2.18	0.43
1:L:507:ASP:O	1:L:511:VAL:HG23	2.19	0.43
2:W:139:ASP:OD1	2:W:163:LEU:HB3	2.19	0.43
1:A:361:LEU:CG	1:A:372:ILE:CG2	2.97	0.42
1:A:388:ASP:OD1	2:M:104:GLY:CA	2.67	0.42
1:A:428:PHE:CD1	1:A:437:ASP:O	2.72	0.42
1:A:428:PHE:HE1	1:A:439:GLY:CA	2.31	0.42
1:A:450:TYR:CB	1:A:513:ALA:HB3	2.49	0.42
1:B:257:HIS:HD2	1:C:232:LYS:HB2	1.78	0.42
1:B:388:ASP:OD1	2:N:104:GLY:CA	2.67	0.42
1:C:361:LEU:HD23	1:C:361:LEU:O	2.18	0.42
1:C:460:LEU:O	1:C:464:ASN:HB2	2.18	0.42
1:C:465:ALA:N	1:C:475:ILE:CD1	2.82	0.42
1:D:361:LEU:CG	1:D:372:ILE:CG2	2.97	0.42
1:E:406:MET:HB3	1:F:468:THR:HG22	1.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:408:GLN:HG2	1:E:413:VAL:HG11	1.95	0.42
1:E:473:THR:CG2	1:E:474:LEU:N	2.82	0.42
1:F:388:ASP:OD1	2:R:104:GLY:CA	2.67	0.42
1:G:428:PHE:HE1	1:G:439:GLY:CA	2.31	0.42
1:H:361:LEU:CG	1:H:372:ILE:CG2	2.97	0.42
1:H:450:TYR:CB	1:H:513:ALA:HB3	2.49	0.42
1:I:361:LEU:CG	1:I:372:ILE:CG2	2.97	0.42
1:I:483:ILE:O	1:I:483:ILE:HG13	2.17	0.42
1:K:352:PHE:CD1	1:K:360:ILE:CG2	2.95	0.42
1:K:373:VAL:HG23	1:K:412:ILE:HD11	1.95	0.42
1:K:406:MET:CG	1:L:468:THR:HG21	2.46	0.42
1:L:388:ASP:OD1	2:X:104:GLY:CA	2.67	0.42
1:L:406:MET:CE	1:L:415:ILE:HD11	2.42	0.42
1:L:424:LYS:HG2	1:L:428:PHE:CE2	2.54	0.42
2:M:145:GLU:HG3	2:M:146:LEU:N	2.34	0.42
2:U:139:ASP:OD1	2:U:163:LEU:HB3	2.19	0.42
2:W:145:GLU:HG3	2:W:146:LEU:N	2.34	0.42
1:B:465:ALA:N	1:B:475:ILE:CD1	2.82	0.42
1:C:237:ALA:HB2	1:C:325:LEU:HD23	2.00	0.42
1:C:352:PHE:CD1	1:C:360:ILE:CG2	2.95	0.42
1:C:406:MET:HB3	1:D:468:THR:HG22	1.96	0.42
1:D:388:ASP:C	1:E:376:ASP:OD2	2.53	0.42
1:E:347:LYS:C	1:E:348:ILE:HD12	2.44	0.42
1:E:388:ASP:OD1	2:Q:104:GLY:CA	2.67	0.42
1:H:473:THR:CG2	1:H:474:LEU:N	2.82	0.42
1:I:448:LEU:CD1	1:I:506:ILE:CG2	2.94	0.42
1:J:424:LYS:HD3	1:J:439:GLY:C	2.45	0.42
1:J:428:PHE:CD1	1:J:437:ASP:O	2.72	0.42
1:L:428:PHE:CD1	1:L:437:ASP:O	2.72	0.42
2:M:139:ASP:OD1	2:M:163:LEU:HB3	2.19	0.42
2:N:139:ASP:OD1	2:N:163:LEU:HB3	2.19	0.42
2:O:139:ASP:OD1	2:O:163:LEU:HB3	2.19	0.42
2:Q:98:VAL:CG1	2:Q:112:GLU:HB3	2.46	0.42
2:R:162:LEU:O	2:R:163:LEU:C	2.62	0.42
2:X:139:ASP:OD1	2:X:163:LEU:HB3	2.19	0.42
1:A:270:PRO:HD3	1:L:295:ASN:HD21	1.27	0.42
1:A:424:LYS:HD3	1:A:439:GLY:C	2.45	0.42
1:B:396:ASP:OD2	1:C:467:THR:CG2	2.41	0.42
1:B:424:LYS:HD3	1:B:439:GLY:C	2.44	0.42
1:B:465:ALA:C	1:B:467:THR:H	2.27	0.42
1:C:256:GLN:CD	1:D:231:ARG:HD2	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:361:LEU:CD2	1:C:361:LEU:C	2.92	0.42
1:C:388:ASP:OD1	2:O:104:GLY:CA	2.67	0.42
1:C:424:LYS:HD3	1:C:439:GLY:C	2.45	0.42
1:C:428:PHE:CD1	1:C:437:ASP:O	2.72	0.42
1:D:237:ALA:HB2	1:D:325:LEU:HD23	2.00	0.42
1:D:450:TYR:CB	1:D:513:ALA:HB3	2.49	0.42
1:D:465:ALA:N	1:D:475:ILE:CD1	2.82	0.42
1:D:492:VAL:CG1	1:D:499:ILE:CG1	2.94	0.42
1:E:460:LEU:O	1:E:464:ASN:HB2	2.18	0.42
1:F:237:ALA:HB2	1:F:325:LEU:HD23	2.00	0.42
1:F:507:ASP:O	1:F:511:VAL:HG23	2.19	0.42
1:G:389:VAL:CG1	1:G:393:GLN:HB3	2.48	0.42
1:I:388:ASP:OD1	2:U:104:GLY:CA	2.67	0.42
1:I:404:LEU:HD13	1:I:419:ASP:OD2	2.19	0.42
1:J:507:ASP:O	1:J:511:VAL:HG23	2.19	0.42
1:K:404:LEU:HD13	1:K:419:ASP:OD2	2.19	0.42
1:L:404:LEU:HD13	1:L:419:ASP:OD2	2.19	0.42
2:M:111:ILE:N	2:M:111:ILE:CD1	2.82	0.42
2:M:141:ILE:HG13	2:M:161:LEU:CD1	2.49	0.42
2:P:111:ILE:N	2:P:111:ILE:CD1	2.82	0.42
2:P:139:ASP:OD1	2:P:163:LEU:HB3	2.19	0.42
2:P:145:GLU:HG3	2:P:146:LEU:N	2.34	0.42
2:R:158:LYS:HG2	2:R:159:ALA:N	2.34	0.42
2:V:141:ILE:HG13	2:V:161:LEU:CD1	2.49	0.42
1:A:361:LEU:CD2	1:A:372:ILE:CB	2.95	0.42
1:B:421:LEU:HD23	1:B:421:LEU:HA	1.80	0.42
1:C:424:LYS:CG	1:C:428:PHE:CZ	2.93	0.42
1:C:424:LYS:CE	1:C:441:LEU:HD12	2.16	0.42
1:C:450:TYR:CB	1:C:513:ALA:HB3	2.49	0.42
1:C:507:ASP:O	1:C:511:VAL:HG23	2.19	0.42
1:D:424:LYS:HD3	1:D:439:GLY:C	2.45	0.42
1:E:404:LEU:HD13	1:E:419:ASP:OD2	2.19	0.42
1:E:450:TYR:CE1	1:E:514:GLN:HA	2.55	0.42
1:F:349:SER:OG	2:R:102:LYS:HG3	2.12	0.42
1:G:388:ASP:OD1	2:S:104:GLY:CA	2.67	0.42
1:G:406:MET:CB	1:H:468:THR:HG21	2.47	0.42
1:H:511:VAL:HB	1:H:512:PRO:CD	2.46	0.42
1:I:347:LYS:C	1:I:348:ILE:HD12	2.43	0.42
1:I:388:ASP:C	1:J:376:ASP:OD2	2.53	0.42
1:I:465:ALA:C	1:I:467:THR:H	2.27	0.42
1:J:450:TYR:CE1	1:J:514:GLN:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:424:LYS:CG	1:K:428:PHE:CZ	2.93	0.42
2:P:141:ILE:HG13	2:P:161:LEU:CD1	2.49	0.42
2:Q:141:ILE:HG13	2:Q:161:LEU:CD1	2.49	0.42
2:T:141:ILE:HG13	2:T:161:LEU:CD1	2.49	0.42
2:V:139:ASP:OD1	2:V:163:LEU:HB3	2.19	0.42
1:A:237:ALA:HB2	1:A:325:LEU:HD23	2.00	0.42
1:A:465:ALA:N	1:A:475:ILE:CD1	2.82	0.42
1:B:424:LYS:CG	1:B:428:PHE:CE1	3.02	0.42
1:B:516:VAL:CG2	1:B:517:MET:N	2.74	0.42
1:C:464:ASN:CG	1:C:475:ILE:CG2	2.93	0.42
1:D:428:PHE:HE1	1:D:439:GLY:N	2.18	0.42
1:E:424:LYS:HD3	1:E:439:GLY:C	2.44	0.42
1:E:507:ASP:O	1:E:511:VAL:HG23	2.19	0.42
1:G:450:TYR:CB	1:G:513:ALA:HB3	2.49	0.42
1:H:421:LEU:HD23	1:H:421:LEU:HA	1.80	0.42
1:H:482:LEU:N	1:H:482:LEU:CD1	2.82	0.42
1:I:424:LYS:CD	1:I:440:ALA:CA	2.93	0.42
1:J:450:TYR:CB	1:J:513:ALA:HB3	2.49	0.42
1:J:483:ILE:O	1:J:483:ILE:HG13	2.17	0.42
1:K:388:ASP:OD1	2:W:104:GLY:CA	2.67	0.42
1:K:473:THR:CG2	1:K:474:LEU:N	2.82	0.42
1:K:482:LEU:N	1:K:482:LEU:CD1	2.82	0.42
1:L:347:LYS:C	1:L:348:ILE:HD12	2.43	0.42
2:M:84:LYS:HD3	2:M:88:GLU:OE2	2.20	0.42
2:P:84:LYS:HD3	2:P:88:GLU:OE2	2.20	0.42
2:Q:162:LEU:O	2:Q:163:LEU:C	2.62	0.42
2:T:136:ILE:HG22	2:T:137:THR:H	1.82	0.42
1:B:430:GLN:HE21	1:B:430:GLN:HB3	1.42	0.42
1:C:428:PHE:HE1	1:C:439:GLY:N	2.18	0.42
1:C:516:VAL:CG2	1:C:517:MET:N	2.74	0.42
1:D:384:LEU:HD23	1:D:384:LEU:HA	1.91	0.42
1:E:406:MET:HB3	1:F:468:THR:HG21	1.95	0.42
1:E:459:ILE:CD1	1:E:509:LEU:CD1	2.94	0.42
1:F:389:VAL:CG1	1:F:393:GLN:HB3	2.48	0.42
1:F:428:PHE:CD1	1:F:437:ASP:O	2.72	0.42
1:G:424:LYS:HD3	1:G:439:GLY:C	2.45	0.42
1:G:473:THR:CG2	1:G:474:LEU:N	2.82	0.42
1:G:482:LEU:N	1:G:482:LEU:CD1	2.82	0.42
1:K:424:LYS:HD3	1:K:439:GLY:C	2.44	0.42
1:K:424:LYS:CD	1:K:440:ALA:CA	2.93	0.42
1:K:428:PHE:HE1	1:K:439:GLY:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:450:TYR:CB	1:K:513:ALA:HB3	2.49	0.42
1:K:465:ALA:C	1:K:467:THR:H	2.27	0.42
2:N:141:ILE:O	2:N:160:GLU:HA	2.20	0.42
2:N:141:ILE:HG13	2:N:161:LEU:CD1	2.49	0.42
2:R:139:ASP:OD1	2:R:163:LEU:HB3	2.19	0.42
2:U:158:LYS:HG2	2:U:159:ALA:N	2.34	0.42
2:W:120:VAL:HG11	2:W:126:LEU:HB3	2.02	0.42
2:W:162:LEU:O	2:W:163:LEU:C	2.62	0.42
1:A:406:MET:CB	1:B:468:THR:HG21	2.47	0.42
1:B:404:LEU:HD13	1:B:419:ASP:OD2	2.19	0.42
1:B:424:LYS:CD	1:B:440:ALA:N	2.83	0.42
1:B:428:PHE:HE1	1:B:439:GLY:N	2.18	0.42
1:C:361:LEU:CG	1:C:372:ILE:CG2	2.97	0.42
1:D:388:ASP:OD1	2:P:104:GLY:CA	2.67	0.42
1:D:404:LEU:HD13	1:D:419:ASP:OD2	2.19	0.42
1:E:237:ALA:HB2	1:E:325:LEU:HD23	2.00	0.42
1:E:361:LEU:CD2	1:E:372:ILE:HG22	2.49	0.42
1:E:465:ALA:N	1:E:475:ILE:CD1	2.82	0.42
1:F:459:ILE:CD1	1:F:509:LEU:CD1	2.94	0.42
1:G:257:HIS:NE2	1:H:232:LYS:C	2.74	0.42
1:G:257:HIS:HD2	1:H:232:LYS:HB2	1.78	0.42
1:G:361:LEU:CG	1:G:372:ILE:CG2	2.97	0.42
1:G:428:PHE:CD1	1:G:437:ASP:O	2.72	0.42
1:G:450:TYR:CE1	1:G:514:GLN:HA	2.55	0.42
1:G:511:VAL:HB	1:G:512:PRO:CD	2.46	0.42
1:H:424:LYS:HD3	1:H:439:GLY:C	2.44	0.42
1:I:424:LYS:HD3	1:I:439:GLY:C	2.45	0.42
1:J:424:LYS:CD	1:J:440:ALA:N	2.83	0.42
1:J:428:PHE:HE1	1:J:439:GLY:N	2.18	0.42
1:L:473:THR:CG2	1:L:474:LEU:N	2.82	0.42
2:O:84:LYS:HD3	2:O:88:GLU:OE2	2.20	0.42
2:O:111:ILE:N	2:O:111:ILE:CD1	2.82	0.42
2:O:162:LEU:O	2:O:163:LEU:C	2.62	0.42
2:P:95:MET:HG2	2:P:113:ALA:CB	2.33	0.42
2:W:141:ILE:HG13	2:W:161:LEU:CD1	2.49	0.42
2:X:120:VAL:HG11	2:X:126:LEU:HB3	2.02	0.42
2:X:145:GLU:HG3	2:X:146:LEU:N	2.34	0.42
1:B:237:ALA:HB2	1:B:325:LEU:HD23	2.00	0.42
1:B:361:LEU:CG	1:B:372:ILE:CG2	2.97	0.42
1:B:450:TYR:CB	1:B:513:ALA:HB3	2.49	0.42
1:D:361:LEU:CD2	1:D:372:ILE:HG22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:507:ASP:O	1:D:511:VAL:HG23	2.19	0.42
1:E:428:PHE:CD1	1:E:437:ASP:O	2.72	0.42
1:E:450:TYR:CB	1:E:513:ALA:HB3	2.49	0.42
1:F:257:HIS:NE2	1:G:232:LYS:C	2.74	0.42
1:F:482:LEU:N	1:F:482:LEU:CD1	2.82	0.42
1:H:428:PHE:CD1	1:H:437:ASP:O	2.72	0.42
1:J:361:LEU:CG	1:J:372:ILE:CG2	2.97	0.42
1:K:448:LEU:CD1	1:K:506:ILE:CG2	2.94	0.42
1:L:424:LYS:CD	1:L:440:ALA:N	2.83	0.42
1:L:428:PHE:HE1	1:L:439:GLY:N	2.18	0.42
1:L:446:PHE:CE1	1:L:492:VAL:HG12	2.55	0.42
2:M:162:LEU:O	2:M:163:LEU:C	2.62	0.42
2:R:141:ILE:O	2:R:160:GLU:HG3	2.20	0.42
2:S:139:ASP:OD1	2:S:163:LEU:HB3	2.19	0.42
2:V:162:LEU:O	2:V:163:LEU:C	2.62	0.42
2:X:141:ILE:O	2:X:160:GLU:HA	2.20	0.42
1:A:361:LEU:CD2	1:A:361:LEU:C	2.92	0.42
1:A:450:TYR:CE2	1:A:514:GLN:CG	2.96	0.42
1:B:366:LYS:C	1:B:368:SER:H	2.28	0.42
1:C:384:LEU:HD23	1:C:384:LEU:HA	1.91	0.42
1:F:361:LEU:CD2	1:F:372:ILE:HG22	2.49	0.42
1:F:450:TYR:CB	1:F:513:ALA:HB3	2.49	0.42
1:G:256:GLN:CD	1:H:231:ARG:HD2	2.29	0.42
1:G:404:LEU:HD13	1:G:419:ASP:OD2	2.19	0.42
1:G:465:ALA:C	1:G:467:THR:H	2.27	0.42
1:I:473:THR:CG2	1:I:474:LEU:N	2.82	0.42
1:J:446:PHE:CE1	1:J:492:VAL:HG12	2.55	0.42
1:K:464:ASN:CG	1:K:475:ILE:CG2	2.93	0.42
1:K:507:ASP:O	1:K:511:VAL:HG23	2.19	0.42
1:L:366:LYS:C	1:L:368:SER:H	2.28	0.42
2:M:120:VAL:HG11	2:M:126:LEU:HB3	2.02	0.42
2:Q:84:LYS:HD3	2:Q:88:GLU:OE2	2.20	0.42
2:Q:141:ILE:O	2:Q:160:GLU:HA	2.20	0.42
2:V:120:VAL:HG11	2:V:126:LEU:HB3	2.02	0.42
2:W:141:ILE:O	2:W:160:GLU:HG3	2.20	0.42
2:X:162:LEU:O	2:X:163:LEU:C	2.62	0.42
1:A:428:PHE:HE1	1:A:439:GLY:N	2.18	0.42
1:B:464:ASN:HA	1:B:464:ASN:HD22	1.41	0.42
1:C:366:LYS:C	1:C:368:SER:H	2.28	0.42
1:C:404:LEU:HD13	1:C:419:ASP:OD2	2.19	0.42
1:C:428:PHE:HE1	1:C:439:GLY:CA	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:GLN:HE21	1:D:430:GLN:HB3	1.42	0.42
1:E:361:LEU:CG	1:E:372:ILE:CG2	2.97	0.42
1:F:512:PRO:HA	1:F:515:GLN:HE22	1.85	0.42
1:G:446:PHE:CE1	1:G:492:VAL:HG12	2.55	0.42
1:H:424:LYS:HG2	1:H:428:PHE:CE2	2.54	0.42
1:H:459:ILE:CD1	1:H:509:LEU:CD1	2.94	0.42
1:I:424:LYS:HG2	1:I:428:PHE:CE2	2.54	0.42
1:I:428:PHE:CD1	1:I:437:ASP:O	2.72	0.42
1:J:373:VAL:HG23	1:J:412:ILE:HD11	1.95	0.42
1:K:424:LYS:HG2	1:K:428:PHE:CE2	2.54	0.42
1:L:448:LEU:CD1	1:L:506:ILE:CG2	2.94	0.42
1:L:465:ALA:N	1:L:475:ILE:CD1	2.82	0.42
1:L:516:VAL:CG2	1:L:517:MET:N	2.74	0.42
2:R:126:LEU:N	2:R:126:LEU:CD1	2.83	0.42
2:T:111:ILE:N	2:T:111:ILE:CD1	2.82	0.42
2:T:139:ASP:OD1	2:T:163:LEU:HB3	2.19	0.42
2:T:162:LEU:O	2:T:163:LEU:C	2.62	0.42
1:A:388:ASP:C	1:B:376:ASP:OD2	2.53	0.41
1:A:450:TYR:CE1	1:A:514:GLN:HA	2.55	0.41
1:B:347:LYS:CE	2:N:104:GLY:N	2.67	0.41
1:D:256:GLN:NE2	1:E:231:ARG:CD	2.48	0.41
1:D:424:LYS:CD	1:D:440:ALA:N	2.83	0.41
1:D:448:LEU:CD1	1:D:506:ILE:CG2	2.94	0.41
1:D:481:VAL:O	1:D:481:VAL:HG13	2.17	0.41
1:E:384:LEU:HD23	1:E:384:LEU:HA	1.91	0.41
1:E:424:LYS:CD	1:E:440:ALA:N	2.83	0.41
1:E:465:ALA:C	1:E:467:THR:H	2.27	0.41
1:F:361:LEU:CD2	1:F:361:LEU:C	2.92	0.41
1:F:511:VAL:HB	1:F:512:PRO:CD	2.46	0.41
1:H:257:HIS:NE2	1:I:232:LYS:C	2.74	0.41
1:I:446:PHE:CE1	1:I:492:VAL:HG12	2.55	0.41
1:I:459:ILE:CD1	1:I:509:LEU:CD1	2.94	0.41
1:J:388:ASP:OD1	2:V:104:GLY:CA	2.67	0.41
1:L:361:LEU:CG	1:L:372:ILE:CG2	2.97	0.41
2:P:141:ILE:O	2:P:160:GLU:HA	2.20	0.41
2:U:141:ILE:HG13	2:U:161:LEU:CD1	2.49	0.41
2:X:84:LYS:HD3	2:X:88:GLU:OE2	2.20	0.41
2:X:141:ILE:O	2:X:160:GLU:HG3	2.20	0.41
1:A:446:PHE:CE1	1:A:492:VAL:HG12	2.55	0.41
1:B:361:LEU:CD2	1:B:372:ILE:CB	2.95	0.41
1:B:446:PHE:CE1	1:B:492:VAL:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:ILE:HD12	1:D:239:ILE:N	2.36	0.41
1:E:464:ASN:CG	1:E:475:ILE:CG2	2.93	0.41
1:F:352:PHE:HB3	1:F:355:VAL:HG11	2.02	0.41
1:G:366:LYS:C	1:G:368:SER:H	2.28	0.41
1:I:239:ILE:HD12	1:I:239:ILE:N	2.36	0.41
1:J:239:ILE:N	1:J:239:ILE:HD12	2.36	0.41
1:J:421:LEU:HD23	1:J:421:LEU:HA	1.80	0.41
1:J:464:ASN:C	1:J:475:ILE:HD13	2.45	0.41
1:J:473:THR:CG2	1:J:474:LEU:N	2.82	0.41
1:L:424:LYS:HD3	1:L:439:GLY:C	2.45	0.41
2:M:141:ILE:O	2:M:160:GLU:HG3	2.20	0.41
2:N:84:LYS:HD3	2:N:88:GLU:OE2	2.20	0.41
2:O:98:VAL:CG1	2:O:112:GLU:HB3	2.46	0.41
2:S:84:LYS:HD3	2:S:88:GLU:OE2	2.20	0.41
2:S:141:ILE:HG13	2:S:161:LEU:CD1	2.49	0.41
2:U:126:LEU:O	2:U:131:GLY:HA3	2.20	0.41
2:V:141:ILE:O	2:V:160:GLU:HA	2.20	0.41
1:A:464:ASN:C	1:A:475:ILE:HD13	2.45	0.41
1:B:445:ASN:HD22	1:C:501:LYS:HE3	1.85	0.41
1:C:430:GLN:HE21	1:C:430:GLN:HB3	1.42	0.41
1:C:446:PHE:CE1	1:C:492:VAL:HG12	2.55	0.41
1:D:428:PHE:CD1	1:D:437:ASP:O	2.72	0.41
1:D:450:TYR:CE1	1:D:514:GLN:HA	2.55	0.41
1:E:257:HIS:NE2	1:F:232:LYS:C	2.74	0.41
1:E:482:LEU:N	1:E:482:LEU:CD1	2.82	0.41
1:F:343:PHE:CG	1:G:469:GLY:HA3	2.50	0.41
1:F:404:LEU:HD13	1:F:419:ASP:OD2	2.19	0.41
1:F:465:ALA:N	1:F:475:ILE:CD1	2.82	0.41
1:H:366:LYS:C	1:H:368:SER:H	2.28	0.41
1:H:404:LEU:HD13	1:H:419:ASP:OD2	2.19	0.41
1:H:424:LYS:CD	1:H:440:ALA:N	2.83	0.41
1:H:446:PHE:CE1	1:H:492:VAL:HG12	2.55	0.41
1:I:428:PHE:HE1	1:I:439:GLY:N	2.18	0.41
1:I:450:TYR:CB	1:I:513:ALA:HB3	2.49	0.41
1:K:239:ILE:HD12	1:K:239:ILE:N	2.35	0.41
1:K:424:LYS:CD	1:K:440:ALA:N	2.83	0.41
1:L:464:ASN:C	1:L:475:ILE:HD13	2.46	0.41
1:L:483:ILE:HG13	1:L:491:ILE:HB	1.93	0.41
2:M:126:LEU:O	2:M:131:GLY:HA3	2.20	0.41
2:O:141:ILE:O	2:O:160:GLU:HG3	2.20	0.41
2:Q:126:LEU:N	2:Q:126:LEU:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:145:GLU:HG3	2:Q:146:LEU:N	2.34	0.41
2:R:126:LEU:O	2:R:131:GLY:HA3	2.20	0.41
2:S:162:LEU:O	2:S:163:LEU:C	2.62	0.41
2:T:141:ILE:O	2:T:160:GLU:HG3	2.20	0.41
2:U:84:LYS:HD3	2:U:88:GLU:OE2	2.20	0.41
2:U:162:LEU:O	2:U:163:LEU:C	2.62	0.41
2:V:84:LYS:HD3	2:V:88:GLU:OE2	2.20	0.41
2:W:111:ILE:N	2:W:111:ILE:CD1	2.82	0.41
1:A:445:ASN:HD22	1:B:501:LYS:HE3	1.85	0.41
1:B:239:ILE:N	1:B:239:ILE:HD12	2.35	0.41
1:B:476:SER:HB3	1:B:477:GLY:H	1.61	0.41
1:C:361:LEU:CD2	1:C:372:ILE:HG22	2.49	0.41
1:C:424:LYS:CG	1:C:428:PHE:CE1	3.02	0.41
1:D:366:LYS:C	1:D:368:SER:H	2.28	0.41
1:E:511:VAL:HB	1:E:512:PRO:CD	2.46	0.41
1:F:239:ILE:HD12	1:F:239:ILE:N	2.36	0.41
1:F:424:LYS:CD	1:F:440:ALA:N	2.83	0.41
1:G:361:LEU:CD2	1:G:372:ILE:HG22	2.49	0.41
1:G:424:LYS:HG2	1:G:428:PHE:CE2	2.54	0.41
1:G:424:LYS:CD	1:G:440:ALA:N	2.83	0.41
1:G:464:ASN:C	1:G:475:ILE:HD13	2.45	0.41
1:H:239:ILE:HD12	1:H:239:ILE:N	2.35	0.41
1:H:361:LEU:CD2	1:H:361:LEU:C	2.92	0.41
1:H:384:LEU:HD23	1:H:384:LEU:HA	1.91	0.41
1:J:366:LYS:C	1:J:368:SER:H	2.28	0.41
1:K:442:TYR:CD2	1:K:443:SER:O	2.74	0.41
1:K:483:ILE:HG13	1:K:491:ILE:HB	1.93	0.41
1:L:352:PHE:CD1	1:L:360:ILE:CG2	2.95	0.41
1:L:450:TYR:CB	1:L:513:ALA:HB3	2.49	0.41
2:N:98:VAL:CG1	2:N:112:GLU:HB3	2.46	0.41
2:N:133:ILE:HD12	2:N:143:LEU:CB	2.51	0.41
2:N:141:ILE:O	2:N:160:GLU:HG3	2.20	0.41
2:O:126:LEU:O	2:O:131:GLY:HA3	2.20	0.41
2:O:133:ILE:HD12	2:O:143:LEU:CB	2.51	0.41
2:O:141:ILE:O	2:O:160:GLU:HA	2.20	0.41
2:P:133:ILE:HD12	2:P:143:LEU:CB	2.51	0.41
2:Q:97:TYR:CE1	2:Q:99:GLY:O	2.74	0.41
2:R:97:TYR:CE1	2:R:99:GLY:O	2.74	0.41
2:R:111:ILE:N	2:R:111:ILE:CD1	2.82	0.41
2:S:141:ILE:O	2:S:160:GLU:HG3	2.20	0.41
2:T:141:ILE:O	2:T:160:GLU:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:120:VAL:HG11	2:U:126:LEU:HB3	2.02	0.41
2:V:97:TYR:CE1	2:V:99:GLY:O	2.74	0.41
2:W:97:TYR:CE1	2:W:99:GLY:O	2.74	0.41
2:X:131:GLY:HA2	2:X:145:GLU:CB	2.51	0.41
1:A:239:ILE:HD12	1:A:239:ILE:N	2.36	0.41
1:B:464:ASN:CG	1:B:475:ILE:CG2	2.93	0.41
1:C:464:ASN:HA	1:C:464:ASN:HD22	1.41	0.41
1:E:446:PHE:CE1	1:E:492:VAL:HG12	2.55	0.41
1:F:366:LYS:C	1:F:368:SER:H	2.28	0.41
1:F:442:TYR:CD2	1:F:443:SER:O	2.74	0.41
1:G:347:LYS:HD2	1:G:388:ASP:HA	2.03	0.41
1:G:398:VAL:HG12	1:G:403:ASN:ND2	2.36	0.41
1:H:347:LYS:HD2	1:H:388:ASP:HA	2.03	0.41
1:H:424:LYS:CG	1:H:428:PHE:CE1	3.02	0.41
1:I:424:LYS:CD	1:I:440:ALA:N	2.83	0.41
1:I:464:ASN:C	1:I:475:ILE:HD13	2.46	0.41
1:J:265:LYS:CE	1:K:245:LEU:HB3	2.26	0.41
1:J:398:VAL:HG12	1:J:403:ASN:ND2	2.36	0.41
1:J:464:ASN:CG	1:J:475:ILE:CG2	2.93	0.41
1:J:481:VAL:CG1	1:J:493:THR:HB	2.51	0.41
1:K:406:MET:HB3	1:L:468:THR:HG22	1.96	0.41
1:K:465:ALA:N	1:K:475:ILE:CD1	2.82	0.41
1:K:481:VAL:CG1	1:K:493:THR:HB	2.51	0.41
1:L:239:ILE:N	1:L:239:ILE:HD12	2.36	0.41
1:L:442:TYR:CD2	1:L:443:SER:O	2.74	0.41
2:N:120:VAL:HG11	2:N:126:LEU:HB3	2.02	0.41
2:P:97:TYR:CE1	2:P:99:GLY:O	2.74	0.41
2:P:120:VAL:HG11	2:P:126:LEU:HB3	2.02	0.41
2:P:141:ILE:O	2:P:160:GLU:HG3	2.20	0.41
2:Q:133:ILE:HD12	2:Q:143:LEU:CB	2.51	0.41
2:R:141:ILE:O	2:R:160:GLU:HA	2.20	0.41
2:S:97:TYR:CE1	2:S:99:GLY:O	2.74	0.41
2:U:97:TYR:CE1	2:U:99:GLY:O	2.74	0.41
2:U:141:ILE:O	2:U:160:GLU:HG3	2.20	0.41
2:X:111:ILE:N	2:X:111:ILE:CD1	2.82	0.41
1:A:382:MET:HB2	1:A:382:MET:HE3	1.76	0.41
1:A:424:LYS:CD	1:A:440:ALA:N	2.83	0.41
1:A:433:LYS:HG2	1:A:435:ILE:H	1.86	0.41
1:A:468:THR:HG21	1:L:406:MET:CB	2.47	0.41
1:A:501:LYS:HE3	1:L:445:ASN:HD22	1.85	0.41
1:C:347:LYS:CE	2:O:104:GLY:N	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:424:LYS:CD	1:C:440:ALA:N	2.83	0.41
1:C:445:ASN:HD22	1:D:501:LYS:HE3	1.85	0.41
1:C:464:ASN:C	1:C:475:ILE:HD13	2.46	0.41
1:D:406:MET:CG	1:E:468:THR:HG21	2.47	0.41
1:D:433:LYS:HG2	1:D:435:ILE:H	1.86	0.41
1:D:446:PHE:CE1	1:D:492:VAL:HG12	2.55	0.41
1:E:355:VAL:CA	1:E:381:LYS:HG3	2.50	0.41
1:E:366:LYS:C	1:E:368:SER:H	2.28	0.41
1:G:448:LEU:CD1	1:G:506:ILE:CG2	2.94	0.41
1:H:352:PHE:HB3	1:H:355:VAL:HG11	2.02	0.41
1:I:366:LYS:C	1:I:368:SER:H	2.28	0.41
1:I:406:MET:CB	1:J:468:THR:HG21	2.47	0.41
1:J:361:LEU:CD2	1:J:361:LEU:C	2.92	0.41
1:J:465:ALA:N	1:J:475:ILE:CD1	2.82	0.41
1:K:343:PHE:CG	1:L:469:GLY:HA3	2.50	0.41
1:K:366:LYS:C	1:K:368:SER:H	2.28	0.41
2:M:133:ILE:HD12	2:M:143:LEU:CB	2.51	0.41
2:O:120:VAL:HG11	2:O:126:LEU:HB3	2.02	0.41
2:Q:139:ASP:OD1	2:Q:163:LEU:HB3	2.19	0.41
2:S:141:ILE:O	2:S:160:GLU:HA	2.20	0.41
2:V:141:ILE:O	2:V:160:GLU:HG3	2.20	0.41
2:X:95:MET:HG2	2:X:113:ALA:CB	2.33	0.41
2:X:97:TYR:CE1	2:X:99:GLY:O	2.74	0.41
1:B:433:LYS:HG2	1:B:435:ILE:H	1.86	0.41
1:C:433:LYS:HG2	1:C:435:ILE:H	1.86	0.41
1:D:295:ASN:HD21	1:E:270:PRO:HD3	1.27	0.41
1:D:424:LYS:CD	1:D:440:ALA:CA	2.93	0.41
1:D:464:ASN:C	1:D:475:ILE:HD13	2.45	0.41
1:E:396:ASP:OD2	1:F:467:THR:CG2	2.41	0.41
1:E:433:LYS:HG2	1:E:435:ILE:H	1.86	0.41
1:E:442:TYR:CD2	1:E:443:SER:O	2.74	0.41
1:F:424:LYS:HD3	1:F:439:GLY:C	2.45	0.41
1:F:446:PHE:CE1	1:F:492:VAL:HG12	2.55	0.41
1:G:239:ILE:N	1:G:239:ILE:HD12	2.36	0.41
1:G:352:PHE:CD1	1:G:360:ILE:CG2	2.95	0.41
1:I:406:MET:CG	1:J:468:THR:HG21	2.46	0.41
1:J:442:TYR:CD2	1:J:443:SER:O	2.74	0.41
1:K:398:VAL:HG12	1:K:403:ASN:ND2	2.36	0.41
1:K:446:PHE:CE1	1:K:492:VAL:HG12	2.55	0.41
1:L:349:SER:OG	2:X:102:LYS:HG3	2.12	0.41
2:P:126:LEU:N	2:P:126:LEU:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:111:ILE:N	2:Q:111:ILE:CD1	2.82	0.41
2:Q:141:ILE:O	2:Q:160:GLU:HG3	2.20	0.41
2:X:133:ILE:HD12	2:X:143:LEU:CB	2.51	0.41
1:A:396:ASP:OD2	1:B:467:THR:CG2	2.41	0.41
1:A:442:TYR:CD2	1:A:443:SER:O	2.74	0.41
1:B:384:LEU:HD23	1:B:384:LEU:HA	1.91	0.41
1:C:256:GLN:NE2	1:D:231:ARG:CD	2.48	0.41
1:D:355:VAL:CA	1:D:381:LYS:HG3	2.50	0.41
1:G:261:ILE:HD12	1:G:261:ILE:N	2.36	0.41
1:G:442:TYR:CD2	1:G:443:SER:O	2.74	0.41
1:G:464:ASN:CG	1:G:475:ILE:CG2	2.93	0.41
1:H:357:ILE:HG23	1:H:403:ASN:ND2	2.36	0.41
1:H:378:VAL:HG23	1:H:379:ASN:N	2.36	0.41
1:H:433:LYS:HG2	1:H:435:ILE:H	1.86	0.41
1:I:481:VAL:CG1	1:I:493:THR:HB	2.51	0.41
1:J:358:ARG:O	1:J:361:LEU:HB3	2.21	0.41
1:J:482:LEU:N	1:J:482:LEU:CD1	2.82	0.41
1:K:358:ARG:O	1:K:362:GLN:HG3	2.21	0.41
1:K:433:LYS:HG2	1:K:435:ILE:H	1.86	0.41
1:K:492:VAL:CG1	1:K:499:ILE:CG1	2.94	0.41
1:L:358:ARG:O	1:L:362:GLN:HG3	2.21	0.41
1:L:398:VAL:HG12	1:L:403:ASN:ND2	2.36	0.41
1:L:433:LYS:HG2	1:L:435:ILE:H	1.86	0.41
2:M:97:TYR:CE1	2:M:99:GLY:O	2.74	0.41
2:M:137:THR:O	2:M:140:SER:O	2.39	0.41
2:O:97:TYR:CE1	2:O:99:GLY:O	2.74	0.41
2:Q:120:VAL:HG11	2:Q:126:LEU:HB3	2.02	0.41
2:T:84:LYS:HD3	2:T:88:GLU:OE2	2.20	0.41
2:T:98:VAL:CG1	2:T:112:GLU:HB3	2.46	0.41
2:T:137:THR:O	2:T:140:SER:O	2.39	0.41
2:V:137:THR:O	2:V:140:SER:O	2.39	0.41
2:W:84:LYS:HD3	2:W:88:GLU:OE2	2.20	0.41
1:A:245:LEU:CD2	1:L:265:LYS:CE	1.99	0.41
1:A:245:LEU:CA	1:L:265:LYS:NZ	2.35	0.41
1:A:378:VAL:HG23	1:A:379:ASN:N	2.36	0.41
1:A:398:VAL:HG12	1:A:403:ASN:ND2	2.36	0.41
1:A:404:LEU:H	1:A:404:LEU:CD2	2.26	0.41
1:B:355:VAL:CA	1:B:381:LYS:HG3	2.50	0.41
1:B:404:LEU:H	1:B:404:LEU:CD2	2.26	0.41
1:C:358:ARG:O	1:C:361:LEU:HB3	2.21	0.41
1:C:421:LEU:HD23	1:C:421:LEU:HA	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:428:PHE:CZ	1:D:439:GLY:O	2.74	0.41
1:D:442:TYR:CD2	1:D:443:SER:O	2.74	0.41
1:D:445:ASN:HD22	1:E:501:LYS:HE3	1.85	0.41
1:E:357:ILE:HG23	1:E:403:ASN:ND2	2.36	0.41
1:E:499:ILE:HG23	1:E:500:GLU:N	2.36	0.41
1:F:347:LYS:HD2	1:F:388:ASP:HA	2.03	0.41
1:F:357:ILE:HG23	1:F:403:ASN:ND2	2.36	0.41
1:F:406:MET:CB	1:G:468:THR:HG21	2.47	0.41
1:F:424:LYS:HG2	1:F:428:PHE:CE2	2.54	0.41
1:F:464:ASN:C	1:F:475:ILE:HD13	2.46	0.41
1:G:378:VAL:HG23	1:G:379:ASN:N	2.36	0.41
1:H:349:SER:CB	2:T:102:LYS:HG2	2.48	0.41
1:I:347:LYS:HD2	1:I:388:ASP:HA	2.03	0.41
1:I:361:LEU:CD2	1:I:361:LEU:C	2.92	0.41
1:I:398:VAL:HG12	1:I:403:ASN:ND2	2.36	0.41
1:I:486:ALA:C	1:I:488:ASN:H	2.29	0.41
1:J:261:ILE:HD12	1:J:261:ILE:N	2.36	0.41
1:J:433:LYS:HG2	1:J:435:ILE:H	1.86	0.41
1:J:459:ILE:CD1	1:J:509:LEU:CD1	2.94	0.41
1:J:476:SER:HB3	1:J:477:GLY:H	1.61	0.41
1:K:416:ALA:C	1:K:418:ARG:H	2.29	0.41
1:K:445:ASN:HD22	1:L:501:LYS:HE3	1.85	0.41
1:L:378:VAL:HG23	1:L:379:ASN:N	2.36	0.41
2:N:97:TYR:CE1	2:N:99:GLY:O	2.74	0.41
2:N:131:GLY:HA2	2:N:145:GLU:CB	2.51	0.41
2:O:137:THR:O	2:O:140:SER:O	2.39	0.41
2:P:126:LEU:O	2:P:131:GLY:HA3	2.20	0.41
2:P:146:LEU:HG	2:P:156:SER:CA	2.51	0.41
2:Q:126:LEU:O	2:Q:131:GLY:HA3	2.20	0.41
2:Q:146:LEU:HG	2:Q:156:SER:CA	2.51	0.41
2:R:84:LYS:HD3	2:R:88:GLU:OE2	2.20	0.41
2:R:146:LEU:HG	2:R:156:SER:CA	2.51	0.41
2:S:146:LEU:HG	2:S:156:SER:CA	2.51	0.41
2:T:120:VAL:HG11	2:T:126:LEU:HB3	2.02	0.41
2:T:126:LEU:O	2:T:131:GLY:HA3	2.20	0.41
2:V:122:VAL:N	2:V:136:ILE:HD11	2.36	0.41
2:V:126:LEU:O	2:V:131:GLY:HA3	2.20	0.41
2:V:131:GLY:HA2	2:V:145:GLU:CB	2.51	0.41
2:W:131:GLY:HA2	2:W:145:GLU:CB	2.51	0.41
2:X:126:LEU:O	2:X:131:GLY:HA3	2.20	0.41
1:B:361:LEU:CD2	1:B:372:ILE:HG22	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:464:ASN:C	1:B:475:ILE:HD13	2.46	0.41
1:C:239:ILE:HD12	1:C:239:ILE:N	2.36	0.41
1:C:355:VAL:CA	1:C:381:LYS:HG3	2.50	0.41
1:D:499:ILE:HG23	1:D:500:GLU:N	2.36	0.41
1:F:433:LYS:HG2	1:F:435:ILE:H	1.86	0.41
1:F:515:GLN:HE21	1:F:515:GLN:HB3	1.56	0.41
1:G:361:LEU:CD2	1:G:361:LEU:C	2.92	0.41
1:G:433:LYS:HG2	1:G:435:ILE:H	1.86	0.41
1:G:465:ALA:N	1:G:475:ILE:CD1	2.82	0.41
1:H:343:PHE:CD2	1:H:343:PHE:O	2.74	0.41
1:H:358:ARG:O	1:H:361:LEU:HB3	2.21	0.41
1:H:428:PHE:HE1	1:H:439:GLY:N	2.18	0.41
1:I:261:ILE:HD12	1:I:261:ILE:N	2.36	0.41
1:I:450:TYR:CE1	1:I:514:GLN:HA	2.55	0.41
1:I:463:ASP:OD2	1:I:502:PHE:CZ	2.74	0.41
1:J:343:PHE:CD2	1:J:343:PHE:O	2.74	0.41
1:K:261:ILE:HD12	1:K:261:ILE:N	2.36	0.41
1:K:361:LEU:CD2	1:K:361:LEU:C	2.92	0.41
1:L:358:ARG:O	1:L:361:LEU:HB3	2.21	0.41
2:M:122:VAL:N	2:M:136:ILE:HD11	2.36	0.41
2:M:141:ILE:O	2:M:160:GLU:HA	2.20	0.41
2:O:146:LEU:HG	2:O:156:SER:CA	2.51	0.41
2:Q:107:VAL:O	2:Q:107:VAL:HG13	2.21	0.41
2:R:107:VAL:HG13	2:R:107:VAL:O	2.21	0.41
2:R:119:THR:HG22	2:R:120:VAL:H	1.86	0.41
2:S:111:ILE:N	2:S:111:ILE:CD1	2.82	0.41
2:S:126:LEU:O	2:S:131:GLY:HA3	2.20	0.41
2:T:90:PHE:CD2	2:T:114:GLU:HB2	2.57	0.41
2:V:90:PHE:CD2	2:V:114:GLU:HB2	2.56	0.41
2:W:137:THR:O	2:W:140:SER:O	2.39	0.41
1:B:255:GLN:HG3	1:B:310:LEU:HD23	2.03	0.40
1:B:398:VAL:HG12	1:B:403:ASN:ND2	2.36	0.40
1:B:492:VAL:CG1	1:B:499:ILE:CG1	2.94	0.40
1:C:255:GLN:HG3	1:C:310:LEU:HD23	2.04	0.40
1:C:343:PHE:CD2	1:C:343:PHE:O	2.74	0.40
1:C:428:PHE:CZ	1:C:439:GLY:O	2.74	0.40
1:C:463:ASP:OD2	1:C:502:PHE:CZ	2.74	0.40
1:C:515:GLN:HE21	1:C:515:GLN:HB3	1.56	0.40
1:D:424:LYS:CG	1:D:428:PHE:CE1	3.02	0.40
1:D:482:LEU:N	1:D:482:LEU:CD1	2.82	0.40
1:E:347:LYS:HD2	1:E:388:ASP:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:349:SER:OG	2:Q:102:LYS:HG3	2.12	0.40
1:E:428:PHE:CZ	1:E:439:GLY:O	2.74	0.40
1:H:361:LEU:CD2	1:H:372:ILE:HG22	2.49	0.40
1:H:398:VAL:HG12	1:H:403:ASN:ND2	2.36	0.40
1:H:464:ASN:C	1:H:475:ILE:HD13	2.46	0.40
1:H:481:VAL:CG1	1:H:493:THR:HB	2.51	0.40
1:I:442:TYR:CD2	1:I:443:SER:O	2.74	0.40
1:J:347:LYS:HD2	1:J:388:ASP:HA	2.03	0.40
1:J:416:ALA:C	1:J:418:ARG:H	2.29	0.40
1:J:463:ASP:OD2	1:J:502:PHE:CZ	2.74	0.40
1:K:343:PHE:CD2	1:K:343:PHE:O	2.74	0.40
1:K:352:PHE:HB3	1:K:355:VAL:HG11	2.02	0.40
1:K:378:VAL:HG23	1:K:379:ASN:N	2.36	0.40
1:L:382:MET:HB2	1:L:382:MET:HE3	1.76	0.40
2:M:90:PHE:CD2	2:M:114:GLU:HB2	2.56	0.40
2:P:92:LEU:HD12	2:P:95:MET:HB2	2.03	0.40
2:Q:92:LEU:HD12	2:Q:95:MET:HB2	2.03	0.40
2:Q:119:THR:HG22	2:Q:120:VAL:H	1.86	0.40
2:R:118:TYR:HE2	2:R:126:LEU:HA	1.86	0.40
2:R:131:GLY:HA2	2:R:145:GLU:CB	2.51	0.40
2:U:131:GLY:HA2	2:U:145:GLU:CB	2.51	0.40
1:A:343:PHE:CD2	1:A:343:PHE:O	2.74	0.40
1:A:352:PHE:HB3	1:A:355:VAL:HG11	2.02	0.40
1:B:463:ASP:OD2	1:B:502:PHE:CZ	2.74	0.40
1:C:357:ILE:HG23	1:C:403:ASN:ND2	2.36	0.40
1:C:398:VAL:HG12	1:C:403:ASN:ND2	2.36	0.40
1:D:261:ILE:HD12	1:D:261:ILE:N	2.36	0.40
1:D:398:VAL:HG12	1:D:403:ASN:ND2	2.36	0.40
1:D:463:ASP:OD2	1:D:502:PHE:CZ	2.74	0.40
1:E:358:ARG:O	1:E:361:LEU:HB3	2.21	0.40
1:E:373:VAL:HG23	1:E:412:ILE:HD11	1.95	0.40
1:E:398:VAL:HG12	1:E:403:ASN:ND2	2.36	0.40
1:E:445:ASN:HD22	1:F:501:LYS:HE3	1.85	0.40
1:E:492:VAL:CG1	1:E:499:ILE:CG1	2.94	0.40
1:H:261:ILE:HD12	1:H:261:ILE:N	2.36	0.40
1:H:496:ARG:HH11	1:H:496:ARG:HD3	1.78	0.40
1:I:378:VAL:HG23	1:I:379:ASN:N	2.36	0.40
1:I:433:LYS:HG2	1:I:435:ILE:H	1.86	0.40
1:I:515:GLN:HE21	1:I:515:GLN:HB3	1.56	0.40
1:J:499:ILE:HG23	1:J:500:GLU:N	2.36	0.40
1:K:499:ILE:HG23	1:K:500:GLU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:416:ALA:C	1:L:418:ARG:H	2.30	0.40
1:L:450:TYR:CE1	1:L:514:GLN:HA	2.55	0.40
1:L:486:ALA:C	1:L:488:ASN:H	2.29	0.40
2:M:98:VAL:CG1	2:M:112:GLU:HB3	2.46	0.40
2:S:119:THR:HG22	2:S:120:VAL:H	1.86	0.40
2:S:131:GLY:HA2	2:S:145:GLU:CB	2.51	0.40
2:W:122:VAL:O	2:W:122:VAL:HG13	2.22	0.40
2:X:122:VAL:O	2:X:122:VAL:HG13	2.22	0.40
2:X:122:VAL:N	2:X:136:ILE:HD11	2.36	0.40
1:A:358:ARG:O	1:A:361:LEU:HB3	2.21	0.40
1:A:366:LYS:C	1:A:368:SER:H	2.28	0.40
1:A:463:ASP:OD2	1:A:502:PHE:CZ	2.74	0.40
1:A:483:ILE:HG13	1:A:491:ILE:HB	1.93	0.40
1:B:378:VAL:HG23	1:B:379:ASN:N	2.36	0.40
1:B:406:MET:HB3	1:C:468:THR:HG22	1.96	0.40
1:B:442:TYR:CD2	1:B:443:SER:O	2.74	0.40
1:C:404:LEU:H	1:C:404:LEU:CD2	2.25	0.40
1:D:255:GLN:HG3	1:D:310:LEU:HD23	2.04	0.40
1:D:361:LEU:CD2	1:D:361:LEU:C	2.92	0.40
1:E:239:ILE:HD12	1:E:239:ILE:N	2.35	0.40
1:E:463:ASP:OD2	1:E:502:PHE:CZ	2.74	0.40
1:F:428:PHE:CZ	1:F:439:GLY:O	2.74	0.40
1:G:357:ILE:HG23	1:G:403:ASN:ND2	2.36	0.40
1:G:424:LYS:CG	1:G:428:PHE:CE1	3.02	0.40
1:H:428:PHE:CZ	1:H:439:GLY:O	2.74	0.40
1:H:442:TYR:CD2	1:H:443:SER:O	2.74	0.40
1:H:463:ASP:OD2	1:H:502:PHE:CZ	2.74	0.40
1:I:257:HIS:NE2	1:J:232:LYS:C	2.74	0.40
1:I:499:ILE:HG23	1:I:500:GLU:N	2.36	0.40
1:J:358:ARG:O	1:J:362:GLN:HG3	2.21	0.40
1:J:445:ASN:HD22	1:K:501:LYS:HE3	1.85	0.40
1:K:255:GLN:HG3	1:K:310:LEU:HD23	2.03	0.40
1:K:382:MET:HE3	1:K:382:MET:HB2	1.76	0.40
1:K:463:ASP:OD2	1:K:502:PHE:CZ	2.74	0.40
1:L:255:GLN:HG3	1:L:310:LEU:HD23	2.04	0.40
2:N:111:ILE:N	2:N:111:ILE:CD1	2.82	0.40
2:N:146:LEU:HG	2:N:156:SER:CA	2.51	0.40
2:O:126:LEU:N	2:O:126:LEU:CD1	2.83	0.40
2:R:120:VAL:HG11	2:R:126:LEU:HB3	2.02	0.40
2:S:90:PHE:CD2	2:S:114:GLU:HB2	2.56	0.40
2:T:97:TYR:CE1	2:T:99:GLY:O	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:107:VAL:HG13	2:T:107:VAL:O	2.21	0.40
2:T:118:TYR:HE2	2:T:126:LEU:HA	1.87	0.40
2:W:126:LEU:O	2:W:131:GLY:HA3	2.20	0.40
2:X:90:PHE:CD2	2:X:114:GLU:HB2	2.56	0.40
2:X:137:THR:O	2:X:140:SER:O	2.39	0.40
1:A:358:ARG:O	1:A:362:GLN:HG3	2.21	0.40
1:B:358:ARG:O	1:B:361:LEU:HB3	2.21	0.40
1:C:261:ILE:HD12	1:C:261:ILE:N	2.36	0.40
1:C:450:TYR:CE1	1:C:514:GLN:HA	2.55	0.40
1:C:499:ILE:HG23	1:C:500:GLU:N	2.36	0.40
1:D:378:VAL:HG23	1:D:379:ASN:N	2.36	0.40
1:E:255:GLN:HG3	1:E:310:LEU:HD23	2.03	0.40
1:E:261:ILE:HD12	1:E:261:ILE:N	2.36	0.40
1:F:378:VAL:HG23	1:F:379:ASN:N	2.36	0.40
1:F:463:ASP:OD2	1:F:502:PHE:CZ	2.74	0.40
1:G:355:VAL:CA	1:G:381:LYS:HG3	2.50	0.40
1:G:463:ASP:OD2	1:G:502:PHE:CZ	2.74	0.40
1:G:481:VAL:CG1	1:G:493:THR:HB	2.51	0.40
1:H:361:LEU:CD2	1:H:372:ILE:CB	2.95	0.40
1:J:357:ILE:HG23	1:J:403:ASN:ND2	2.36	0.40
1:J:424:LYS:HG2	1:J:428:PHE:CE2	2.54	0.40
1:J:483:ILE:HG13	1:J:491:ILE:HB	1.93	0.40
1:K:295:ASN:HD21	1:L:270:PRO:HD3	1.27	0.40
1:K:358:ARG:O	1:K:361:LEU:HB3	2.21	0.40
1:K:442:TYR:CD2	1:K:443:SER:N	2.90	0.40
1:K:464:ASN:C	1:K:475:ILE:HD13	2.46	0.40
1:L:404:LEU:H	1:L:404:LEU:CD2	2.25	0.40
2:M:118:TYR:HE2	2:M:126:LEU:HA	1.87	0.40
2:M:131:GLY:HA2	2:M:145:GLU:CB	2.51	0.40
2:M:146:LEU:HG	2:M:156:SER:CA	2.51	0.40
2:N:126:LEU:O	2:N:131:GLY:HA3	2.20	0.40
2:O:90:PHE:CD2	2:O:114:GLU:HB2	2.56	0.40
2:P:107:VAL:HG13	2:P:107:VAL:O	2.21	0.40
2:P:119:THR:HG22	2:P:120:VAL:H	1.86	0.40
2:Q:91:SER:O	2:Q:95:MET:HE3	2.22	0.40
2:Q:131:GLY:HA2	2:Q:145:GLU:CB	2.51	0.40
2:R:92:LEU:HD12	2:R:95:MET:HB2	2.03	0.40
2:R:137:THR:O	2:R:140:SER:O	2.39	0.40
2:S:120:VAL:HG11	2:S:126:LEU:HB3	2.02	0.40
2:S:122:VAL:HG13	2:S:122:VAL:O	2.22	0.40
2:S:122:VAL:N	2:S:136:ILE:HD11	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:146:LEU:HG	2:T:156:SER:CA	2.51	0.40
2:U:107:VAL:HG13	2:U:107:VAL:O	2.21	0.40
2:U:119:THR:HG22	2:U:120:VAL:H	1.86	0.40
2:V:91:SER:O	2:V:95:MET:HE3	2.22	0.40
2:W:146:LEU:HG	2:W:156:SER:CA	2.51	0.40
2:X:146:LEU:HG	2:X:156:SER:CA	2.51	0.40
1:A:442:TYR:CD2	1:A:443:SER:N	2.90	0.40
1:B:343:PHE:CD2	1:B:343:PHE:O	2.74	0.40
1:B:428:PHE:CZ	1:B:439:GLY:O	2.74	0.40
1:C:358:ARG:O	1:C:362:GLN:HG3	2.21	0.40
1:C:416:ALA:C	1:C:418:ARG:H	2.30	0.40
1:C:459:ILE:CG1	1:C:460:LEU:N	2.83	0.40
1:D:416:ALA:C	1:D:418:ARG:H	2.29	0.40
1:F:257:HIS:HD2	1:G:232:LYS:HB2	1.78	0.40
1:F:445:ASN:HD22	1:G:501:LYS:HE3	1.85	0.40
1:F:450:TYR:CE1	1:F:514:GLN:HA	2.55	0.40
1:F:499:ILE:HG23	1:F:500:GLU:N	2.36	0.40
1:G:358:ARG:O	1:G:362:GLN:HG3	2.21	0.40
1:H:445:ASN:HD22	1:I:501:LYS:HE3	1.85	0.40
1:I:358:ARG:O	1:I:362:GLN:HG3	2.21	0.40
1:I:424:LYS:CG	1:I:428:PHE:CE1	3.02	0.40
1:K:515:GLN:HE21	1:K:515:GLN:HB3	1.56	0.40
2:M:91:SER:O	2:M:95:MET:HE3	2.22	0.40
2:N:90:PHE:CD2	2:N:114:GLU:HB2	2.57	0.40
2:P:118:TYR:HE2	2:P:126:LEU:HA	1.87	0.40
2:Q:122:VAL:HG13	2:Q:122:VAL:O	2.22	0.40
2:R:90:PHE:CD2	2:R:114:GLU:HB2	2.56	0.40
2:T:91:SER:O	2:T:95:MET:HE3	2.22	0.40
2:U:122:VAL:N	2:U:136:ILE:HD11	2.36	0.40
2:U:141:ILE:O	2:U:160:GLU:HA	2.20	0.40
2:V:107:VAL:O	2:V:107:VAL:HG13	2.21	0.40
2:V:122:VAL:O	2:V:122:VAL:HG13	2.22	0.40
2:W:118:TYR:HE2	2:W:126:LEU:HA	1.87	0.40
2:W:141:ILE:O	2:W:160:GLU:HA	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	B	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	C	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	D	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	E	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	F	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	G	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	H	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	I	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	J	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	K	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
1	L	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	4	25
2	M	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	N	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	O	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	P	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	Q	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	R	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	S	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	T	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	U	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	V	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	W	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
2	X	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	4
All	All	4212/11112 (38%)	3432 (82%)	576 (14%)	204 (5%)	3	16

All (204) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	379	ASN
1	A	402	ARG
1	B	379	ASN
1	B	402	ARG
1	C	379	ASN
1	C	402	ARG
1	D	379	ASN
1	D	402	ARG
1	E	379	ASN
1	E	402	ARG
1	F	379	ASN
1	F	402	ARG
1	G	379	ASN
1	G	402	ARG
1	H	379	ASN
1	H	402	ARG
1	I	379	ASN
1	I	402	ARG
1	J	379	ASN
1	J	402	ARG
1	K	379	ASN
1	K	402	ARG
1	L	379	ASN
1	L	402	ARG
2	M	107	VAL
2	M	129	ASN
2	N	107	VAL
2	N	129	ASN
2	O	107	VAL
2	O	129	ASN
2	P	107	VAL
2	P	129	ASN
2	Q	107	VAL
2	Q	129	ASN
2	R	107	VAL
2	R	129	ASN
2	S	107	VAL
2	S	129	ASN
2	T	107	VAL
2	T	129	ASN
2	U	107	VAL
2	U	129	ASN

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Mol	Chain	Res	Type
2	V	107	VAL
2	V	129	ASN
2	W	107	VAL
2	W	129	ASN
2	X	107	VAL
2	X	129	ASN
1	A	516	VAL
1	B	516	VAL
1	C	516	VAL
1	D	516	VAL
1	E	516	VAL
1	F	516	VAL
1	G	516	VAL
1	H	516	VAL
1	I	516	VAL
1	J	516	VAL
1	K	516	VAL
1	L	516	VAL
2	M	86	THR
2	N	86	THR
2	O	86	THR
2	P	86	THR
2	Q	86	THR
2	R	86	THR
2	S	86	THR
2	T	86	THR
2	U	86	THR
2	V	86	THR
2	W	86	THR
2	X	86	THR
1	A	494	ASP
1	B	494	ASP
1	C	494	ASP
1	D	494	ASP
1	E	494	ASP
1	F	494	ASP
1	G	494	ASP
1	H	494	ASP
1	I	494	ASP
1	J	494	ASP
1	K	494	ASP
1	L	494	ASP

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Mol	Chain	Res	Type
2	M	105	GLN
2	M	151	THR
2	M	156	SER
2	M	157	ARG
2	M	159	ALA
2	N	105	GLN
2	N	151	THR
2	N	156	SER
2	N	157	ARG
2	N	159	ALA
2	O	105	GLN
2	O	151	THR
2	O	156	SER
2	O	157	ARG
2	O	159	ALA
2	P	105	GLN
2	P	151	THR
2	P	156	SER
2	P	157	ARG
2	P	159	ALA
2	Q	105	GLN
2	Q	151	THR
2	Q	156	SER
2	Q	157	ARG
2	Q	159	ALA
2	R	105	GLN
2	R	151	THR
2	R	156	SER
2	R	157	ARG
2	R	159	ALA
2	S	105	GLN
2	S	151	THR
2	S	156	SER
2	S	157	ARG
2	S	159	ALA
2	T	105	GLN
2	T	151	THR
2	T	156	SER
2	T	157	ARG
2	T	159	ALA
2	U	105	GLN
2	U	151	THR

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Mol	Chain	Res	Type
2	U	156	SER
2	U	157	ARG
2	U	159	ALA
2	V	105	GLN
2	V	151	THR
2	V	156	SER
2	V	157	ARG
2	V	159	ALA
2	W	105	GLN
2	W	151	THR
2	W	156	SER
2	W	157	ARG
2	W	159	ALA
2	X	105	GLN
2	X	151	THR
2	X	156	SER
2	X	157	ARG
2	X	159	ALA
2	M	101	LEU
2	M	122	VAL
2	N	101	LEU
2	N	122	VAL
2	O	101	LEU
2	O	122	VAL
2	P	101	LEU
2	P	122	VAL
2	Q	101	LEU
2	Q	122	VAL
2	R	101	LEU
2	R	122	VAL
2	S	101	LEU
2	S	122	VAL
2	T	101	LEU
2	T	122	VAL
2	U	101	LEU
2	U	122	VAL
2	V	101	LEU
2	V	122	VAL
2	W	101	LEU
2	W	122	VAL
2	X	101	LEU
2	X	122	VAL

Continued on next page...

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Mol	Chain	Res	Type
1	A	370	MET
1	B	370	MET
1	C	370	MET
1	D	370	MET
1	E	370	MET
1	F	370	MET
1	G	370	MET
1	H	370	MET
1	I	370	MET
1	J	370	MET
1	K	370	MET
1	L	370	MET
1	A	418	ARG
1	B	418	ARG
1	C	418	ARG
1	D	418	ARG
1	E	418	ARG
1	F	418	ARG
1	G	418	ARG
1	H	418	ARG
1	I	418	ARG
1	J	418	ARG
1	K	418	ARG
1	L	418	ARG
1	A	249	GLY
1	B	249	GLY
1	C	249	GLY
1	D	249	GLY
1	E	249	GLY
1	F	249	GLY
1	G	249	GLY
1	H	249	GLY
1	I	249	GLY
1	J	249	GLY
1	K	249	GLY
1	L	249	GLY

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	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	B	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	C	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	D	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	E	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	F	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	G	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	H	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	I	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	J	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	K	239/615 (39%)	213 (89%)	26 (11%)	6	21
1	L	239/615 (39%)	213 (89%)	26 (11%)	6	21
2	M	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	N	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	O	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	P	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	Q	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	R	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	S	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	T	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	U	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	V	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	W	71/152 (47%)	63 (89%)	8 (11%)	5	19
2	X	71/152 (47%)	63 (89%)	8 (11%)	5	19
All	All	3720/9204 (40%)	3312 (89%)	408 (11%)	8	20

All (408) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	226	THR
1	A	228	ILE
1	A	229	ASP

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Mol	Chain	Res	Type
1	A	233	ASP
1	A	242	LEU
1	A	254	SER
1	A	255	GLN
1	A	269	LEU
1	A	276	SER
1	A	278	ASP
1	A	284	THR
1	A	297	ASP
1	A	299	GLN
1	A	300	LEU
1	A	309	GLU
1	A	323	GLN
1	A	325	LEU
1	A	371	ASN
1	A	404	LEU
1	A	420	GLU
1	A	430	GLN
1	A	445	ASN
1	A	464	ASN
1	A	475	ILE
1	A	482	LEU
1	A	515	GLN
1	B	226	THR
1	B	228	ILE
1	B	229	ASP
1	B	233	ASP
1	B	242	LEU
1	B	254	SER
1	B	255	GLN
1	B	269	LEU
1	B	276	SER
1	B	278	ASP
1	B	284	THR
1	B	297	ASP
1	B	299	GLN
1	B	300	LEU
1	B	309	GLU
1	B	323	GLN
1	B	325	LEU
1	B	371	ASN
1	B	404	LEU

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Mol	Chain	Res	Type
1	B	420	GLU
1	B	430	GLN
1	B	445	ASN
1	B	464	ASN
1	B	475	ILE
1	B	482	LEU
1	B	515	GLN
1	C	226	THR
1	C	228	ILE
1	C	229	ASP
1	C	233	ASP
1	C	242	LEU
1	C	254	SER
1	C	255	GLN
1	C	269	LEU
1	C	276	SER
1	C	278	ASP
1	C	284	THR
1	C	297	ASP
1	C	299	GLN
1	C	300	LEU
1	C	309	GLU
1	C	323	GLN
1	C	325	LEU
1	C	371	ASN
1	C	404	LEU
1	C	420	GLU
1	C	430	GLN
1	C	445	ASN
1	C	464	ASN
1	C	475	ILE
1	C	482	LEU
1	C	515	GLN
1	D	226	THR
1	D	228	ILE
1	D	229	ASP
1	D	233	ASP
1	D	242	LEU
1	D	254	SER
1	D	255	GLN
1	D	269	LEU
1	D	276	SER

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Mol	Chain	Res	Type
1	D	278	ASP
1	D	284	THR
1	D	297	ASP
1	D	299	GLN
1	D	300	LEU
1	D	309	GLU
1	D	323	GLN
1	D	325	LEU
1	D	371	ASN
1	D	404	LEU
1	D	420	GLU
1	D	430	GLN
1	D	445	ASN
1	D	464	ASN
1	D	475	ILE
1	D	482	LEU
1	D	515	GLN
1	E	226	THR
1	E	228	ILE
1	E	229	ASP
1	E	233	ASP
1	E	242	LEU
1	E	254	SER
1	E	255	GLN
1	E	269	LEU
1	E	276	SER
1	E	278	ASP
1	E	284	THR
1	E	297	ASP
1	E	299	GLN
1	E	300	LEU
1	E	309	GLU
1	E	323	GLN
1	E	325	LEU
1	E	371	ASN
1	E	404	LEU
1	E	420	GLU
1	E	430	GLN
1	E	445	ASN
1	E	464	ASN
1	E	475	ILE
1	E	482	LEU

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Mol	Chain	Res	Type
1	E	515	GLN
1	F	226	THR
1	F	228	ILE
1	F	229	ASP
1	F	233	ASP
1	F	242	LEU
1	F	254	SER
1	F	255	GLN
1	F	269	LEU
1	F	276	SER
1	F	278	ASP
1	F	284	THR
1	F	297	ASP
1	F	299	GLN
1	F	300	LEU
1	F	309	GLU
1	F	323	GLN
1	F	325	LEU
1	F	371	ASN
1	F	404	LEU
1	F	420	GLU
1	F	430	GLN
1	F	445	ASN
1	F	464	ASN
1	F	475	ILE
1	F	482	LEU
1	F	515	GLN
1	G	226	THR
1	G	228	ILE
1	G	229	ASP
1	G	233	ASP
1	G	242	LEU
1	G	254	SER
1	G	255	GLN
1	G	269	LEU
1	G	276	SER
1	G	278	ASP
1	G	284	THR
1	G	297	ASP
1	G	299	GLN
1	G	300	LEU
1	G	309	GLU

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Mol	Chain	Res	Type
1	G	323	GLN
1	G	325	LEU
1	G	371	ASN
1	G	404	LEU
1	G	420	GLU
1	G	430	GLN
1	G	445	ASN
1	G	464	ASN
1	G	475	ILE
1	G	482	LEU
1	G	515	GLN
1	H	226	THR
1	H	228	ILE
1	H	229	ASP
1	H	233	ASP
1	H	242	LEU
1	H	254	SER
1	H	255	GLN
1	H	269	LEU
1	H	276	SER
1	H	278	ASP
1	H	284	THR
1	H	297	ASP
1	H	299	GLN
1	H	300	LEU
1	H	309	GLU
1	H	323	GLN
1	H	325	LEU
1	H	371	ASN
1	H	404	LEU
1	H	420	GLU
1	H	430	GLN
1	H	445	ASN
1	H	464	ASN
1	H	475	ILE
1	H	482	LEU
1	H	515	GLN
1	I	226	THR
1	I	228	ILE
1	I	229	ASP
1	I	233	ASP
1	I	242	LEU

Continued on next page...

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Mol	Chain	Res	Type
1	I	254	SER
1	I	255	GLN
1	I	269	LEU
1	I	276	SER
1	I	278	ASP
1	I	284	THR
1	I	297	ASP
1	I	299	GLN
1	I	300	LEU
1	I	309	GLU
1	I	323	GLN
1	I	325	LEU
1	I	371	ASN
1	I	404	LEU
1	I	420	GLU
1	I	430	GLN
1	I	445	ASN
1	I	464	ASN
1	I	475	ILE
1	I	482	LEU
1	I	515	GLN
1	J	226	THR
1	J	228	ILE
1	J	229	ASP
1	J	233	ASP
1	J	242	LEU
1	J	254	SER
1	J	255	GLN
1	J	269	LEU
1	J	276	SER
1	J	278	ASP
1	J	284	THR
1	J	297	ASP
1	J	299	GLN
1	J	300	LEU
1	J	309	GLU
1	J	323	GLN
1	J	325	LEU
1	J	371	ASN
1	J	404	LEU
1	J	420	GLU
1	J	430	GLN

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Mol	Chain	Res	Type
1	J	445	ASN
1	J	464	ASN
1	J	475	ILE
1	J	482	LEU
1	J	515	GLN
1	K	226	THR
1	K	228	ILE
1	K	229	ASP
1	K	233	ASP
1	K	242	LEU
1	K	254	SER
1	K	255	GLN
1	K	269	LEU
1	K	276	SER
1	K	278	ASP
1	K	284	THR
1	K	297	ASP
1	K	299	GLN
1	K	300	LEU
1	K	309	GLU
1	K	323	GLN
1	K	325	LEU
1	K	371	ASN
1	K	404	LEU
1	K	420	GLU
1	K	430	GLN
1	K	445	ASN
1	K	464	ASN
1	K	475	ILE
1	K	482	LEU
1	K	515	GLN
1	L	226	THR
1	L	228	ILE
1	L	229	ASP
1	L	233	ASP
1	L	242	LEU
1	L	254	SER
1	L	255	GLN
1	L	269	LEU
1	L	276	SER
1	L	278	ASP
1	L	284	THR

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Mol	Chain	Res	Type
1	L	297	ASP
1	L	299	GLN
1	L	300	LEU
1	L	309	GLU
1	L	323	GLN
1	L	325	LEU
1	L	371	ASN
1	L	404	LEU
1	L	420	GLU
1	L	430	GLN
1	L	445	ASN
1	L	464	ASN
1	L	475	ILE
1	L	482	LEU
1	L	515	GLN
2	M	100	ILE
2	M	119	THR
2	M	126	LEU
2	M	141	ILE
2	M	147	ILE
2	M	153	ASN
2	M	161	LEU
2	M	164	ASN
2	N	100	ILE
2	N	119	THR
2	N	126	LEU
2	N	141	ILE
2	N	147	ILE
2	N	153	ASN
2	N	161	LEU
2	N	164	ASN
2	O	100	ILE
2	O	119	THR
2	O	126	LEU
2	O	141	ILE
2	O	147	ILE
2	O	153	ASN
2	O	161	LEU
2	O	164	ASN
2	P	100	ILE
2	P	119	THR
2	P	126	LEU

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Mol	Chain	Res	Type
2	P	141	ILE
2	P	147	ILE
2	P	153	ASN
2	P	161	LEU
2	P	164	ASN
2	Q	100	ILE
2	Q	119	THR
2	Q	126	LEU
2	Q	141	ILE
2	Q	147	ILE
2	Q	153	ASN
2	Q	161	LEU
2	Q	164	ASN
2	R	100	ILE
2	R	119	THR
2	R	126	LEU
2	R	141	ILE
2	R	147	ILE
2	R	153	ASN
2	R	161	LEU
2	R	164	ASN
2	S	100	ILE
2	S	119	THR
2	S	126	LEU
2	S	141	ILE
2	S	147	ILE
2	S	153	ASN
2	S	161	LEU
2	S	164	ASN
2	T	100	ILE
2	T	119	THR
2	T	126	LEU
2	T	141	ILE
2	T	147	ILE
2	T	153	ASN
2	T	161	LEU
2	T	164	ASN
2	U	100	ILE
2	U	119	THR
2	U	126	LEU
2	U	141	ILE
2	U	147	ILE

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Mol	Chain	Res	Type
2	U	153	ASN
2	U	161	LEU
2	U	164	ASN
2	V	100	ILE
2	V	119	THR
2	V	126	LEU
2	V	141	ILE
2	V	147	ILE
2	V	153	ASN
2	V	161	LEU
2	V	164	ASN
2	W	100	ILE
2	W	119	THR
2	W	126	LEU
2	W	141	ILE
2	W	147	ILE
2	W	153	ASN
2	W	161	LEU
2	W	164	ASN
2	X	100	ILE
2	X	119	THR
2	X	126	LEU
2	X	141	ILE
2	X	147	ILE
2	X	153	ASN
2	X	161	LEU
2	X	164	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (161) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	296	ASN
1	A	299	GLN
1	A	307	ASN
1	A	353	GLN
1	A	400	GLN
1	A	403	ASN
1	A	408	GLN
1	A	414	ASN
1	A	430	GLN
1	A	445	ASN
1	A	464	ASN

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Mol	Chain	Res	Type
1	A	515	GLN
1	B	296	ASN
1	B	299	GLN
1	B	353	GLN
1	B	400	GLN
1	B	403	ASN
1	B	408	GLN
1	B	414	ASN
1	B	430	GLN
1	B	445	ASN
1	B	464	ASN
1	B	515	GLN
1	C	296	ASN
1	C	299	GLN
1	C	353	GLN
1	C	400	GLN
1	C	403	ASN
1	C	408	GLN
1	C	414	ASN
1	C	430	GLN
1	C	445	ASN
1	C	464	ASN
1	C	515	GLN
1	D	296	ASN
1	D	299	GLN
1	D	307	ASN
1	D	353	GLN
1	D	400	GLN
1	D	403	ASN
1	D	408	GLN
1	D	414	ASN
1	D	430	GLN
1	D	445	ASN
1	D	464	ASN
1	D	515	GLN
1	E	296	ASN
1	E	299	GLN
1	E	307	ASN
1	E	353	GLN
1	E	400	GLN
1	E	403	ASN
1	E	408	GLN

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Mol	Chain	Res	Type
1	E	414	ASN
1	E	430	GLN
1	E	445	ASN
1	E	464	ASN
1	E	515	GLN
1	F	296	ASN
1	F	299	GLN
1	F	353	GLN
1	F	400	GLN
1	F	403	ASN
1	F	408	GLN
1	F	414	ASN
1	F	430	GLN
1	F	445	ASN
1	F	464	ASN
1	F	515	GLN
1	G	296	ASN
1	G	299	GLN
1	G	353	GLN
1	G	400	GLN
1	G	403	ASN
1	G	408	GLN
1	G	414	ASN
1	G	430	GLN
1	G	445	ASN
1	G	464	ASN
1	G	515	GLN
1	H	296	ASN
1	H	299	GLN
1	H	353	GLN
1	H	400	GLN
1	H	403	ASN
1	H	408	GLN
1	H	414	ASN
1	H	430	GLN
1	H	445	ASN
1	H	464	ASN
1	H	515	GLN
1	I	296	ASN
1	I	299	GLN
1	I	353	GLN
1	I	400	GLN

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Mol	Chain	Res	Type
1	I	403	ASN
1	I	408	GLN
1	I	414	ASN
1	I	430	GLN
1	I	445	ASN
1	I	464	ASN
1	I	515	GLN
1	J	296	ASN
1	J	299	GLN
1	J	353	GLN
1	J	400	GLN
1	J	403	ASN
1	J	408	GLN
1	J	414	ASN
1	J	430	GLN
1	J	445	ASN
1	J	464	ASN
1	J	515	GLN
1	K	296	ASN
1	K	299	GLN
1	K	307	ASN
1	K	353	GLN
1	K	400	GLN
1	K	403	ASN
1	K	408	GLN
1	K	414	ASN
1	K	430	GLN
1	K	445	ASN
1	K	464	ASN
1	K	515	GLN
1	L	296	ASN
1	L	299	GLN
1	L	307	ASN
1	L	353	GLN
1	L	400	GLN
1	L	403	ASN
1	L	408	GLN
1	L	414	ASN
1	L	430	GLN
1	L	445	ASN
1	L	464	ASN
1	L	515	GLN

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Mol	Chain	Res	Type
2	M	94	ASN
2	M	129	ASN
2	N	94	ASN
2	N	129	ASN
2	O	94	ASN
2	O	129	ASN
2	P	94	ASN
2	P	129	ASN
2	Q	94	ASN
2	Q	129	ASN
2	R	94	ASN
2	R	129	ASN
2	S	94	ASN
2	S	129	ASN
2	T	94	ASN
2	T	129	ASN
2	U	94	ASN
2	U	129	ASN
2	V	94	ASN
2	V	129	ASN
2	W	94	ASN
2	W	129	ASN
2	X	94	ASN
2	X	129	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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](#)

There are no chain breaks in this entry.

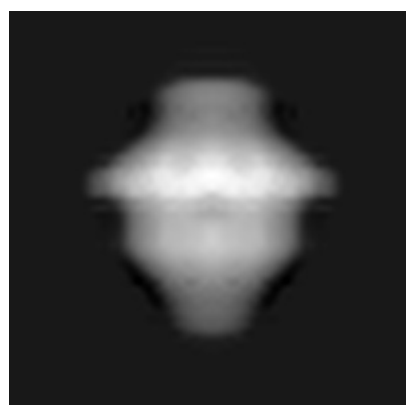
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2105. These allow visual inspection of the internal detail of the map and identification of artifacts.

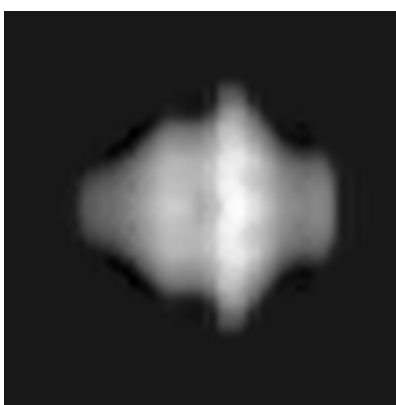
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

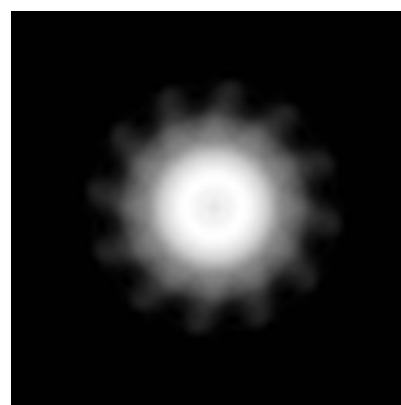
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 32



Y Index: 32



Z Index: 32

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: 32



Y Index: 32



Z Index: 36

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

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

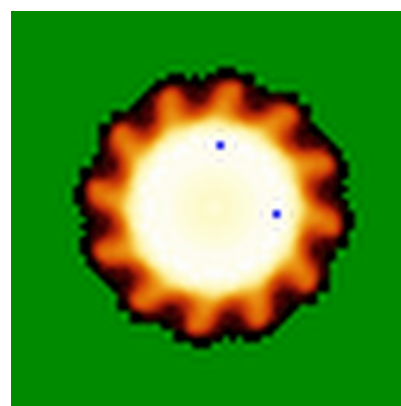
6.4.1 Primary map



X



Y

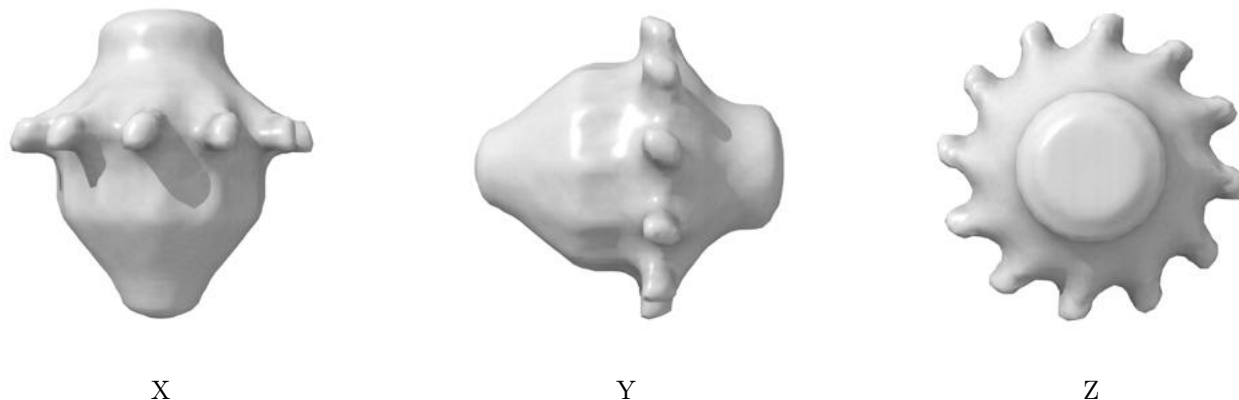


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.28. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

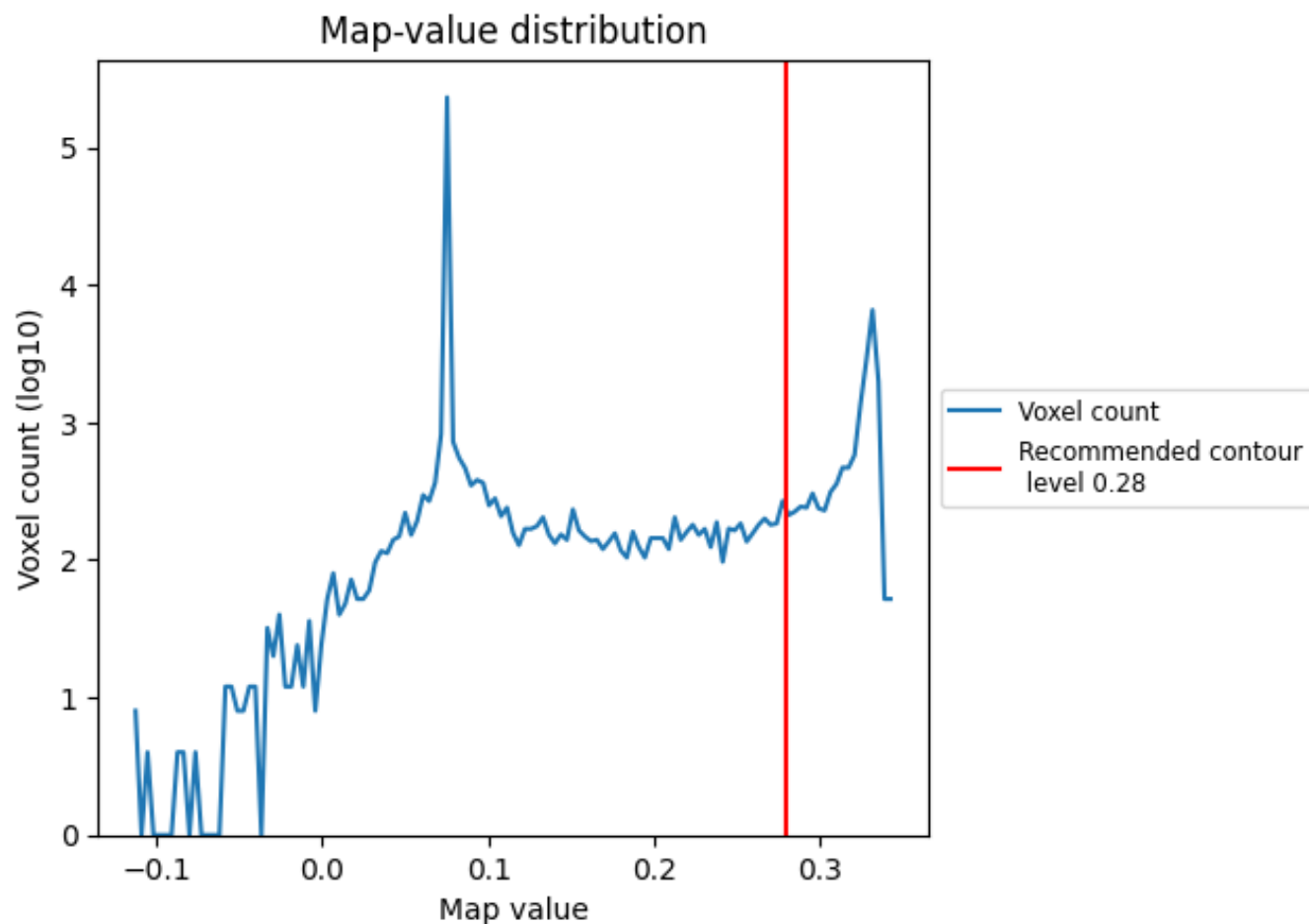
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

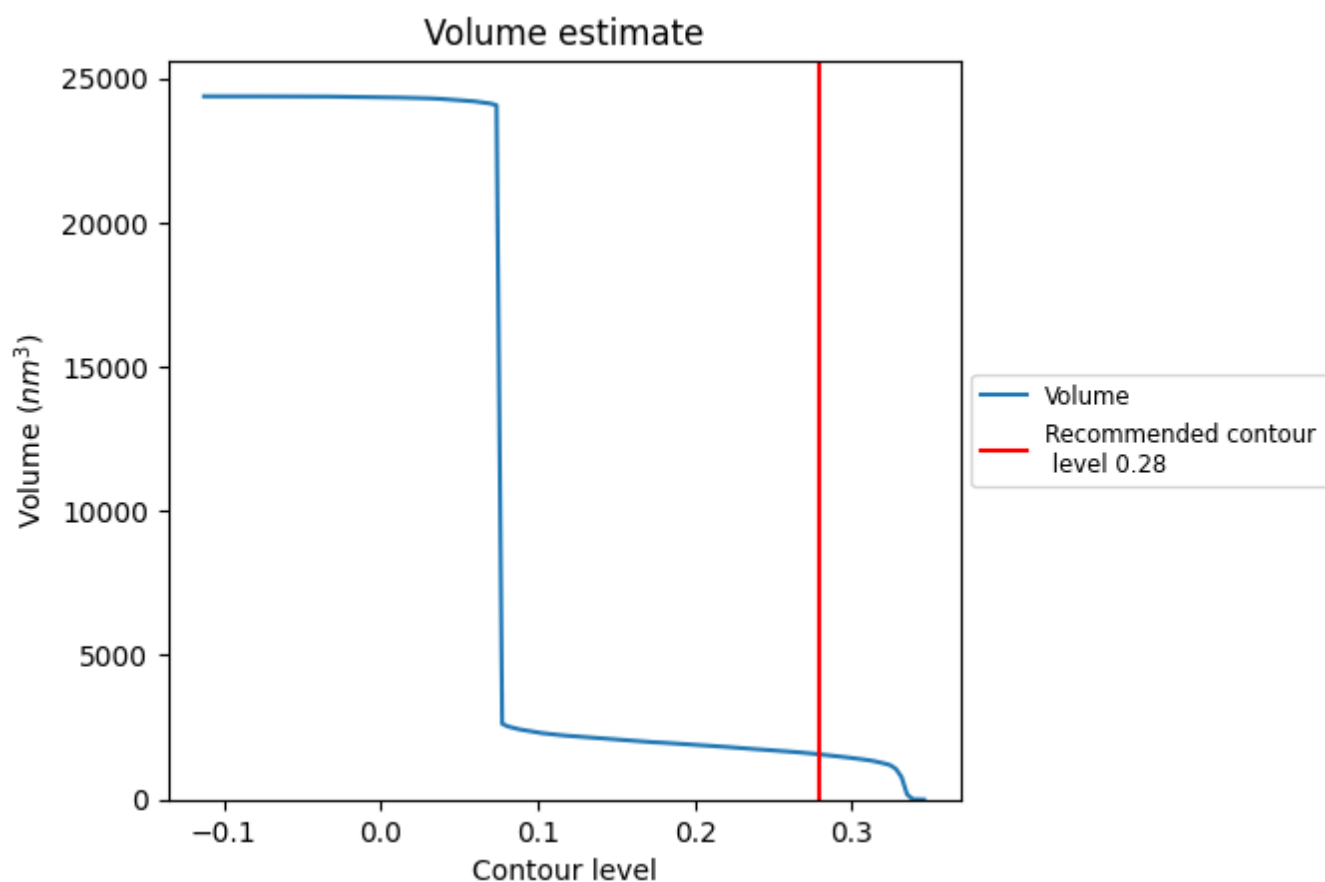
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

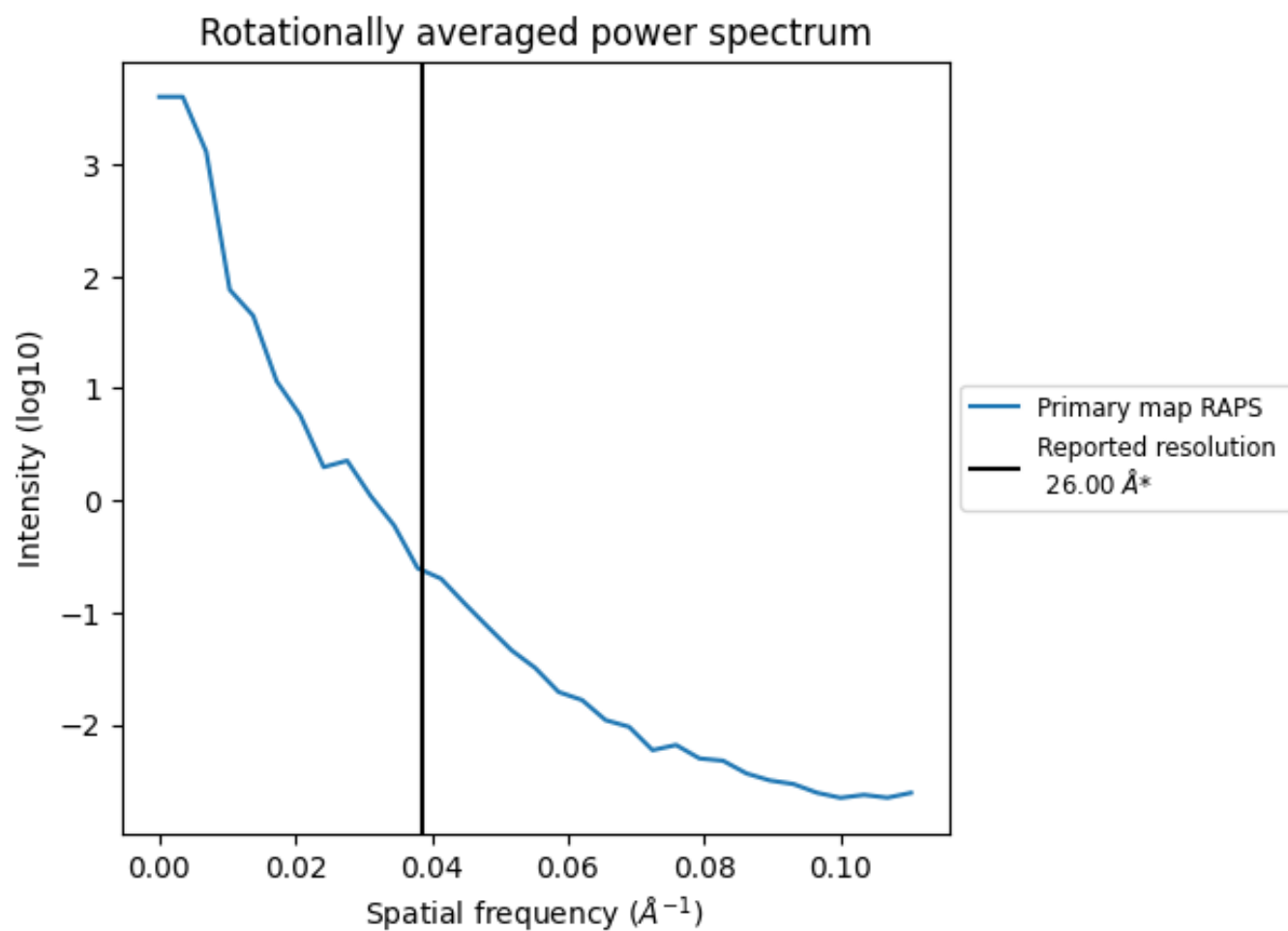
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1565 nm³; this corresponds to an approximate mass of 1414 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.038 Å⁻¹

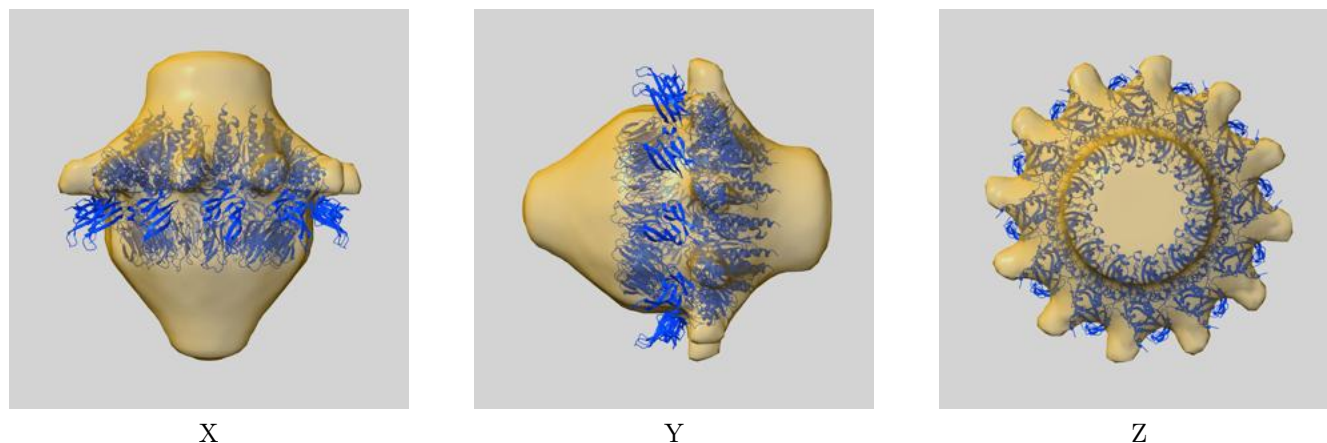
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

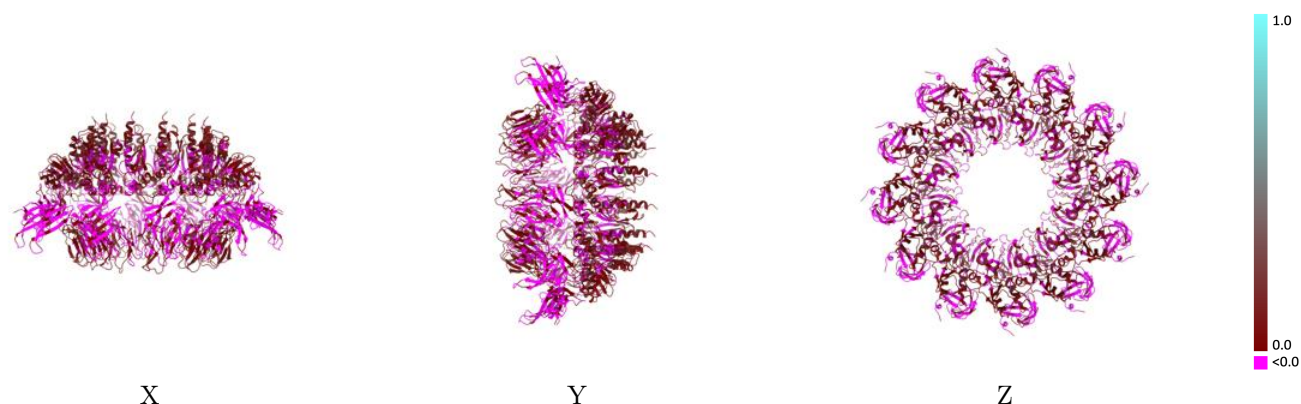
This section contains information regarding the fit between EMDB map EMD-2105 and PDB model 4AV2. Per-residue inclusion information can be found in section [3](#) on page [6](#).

9.1 Map-model overlay [i](#)



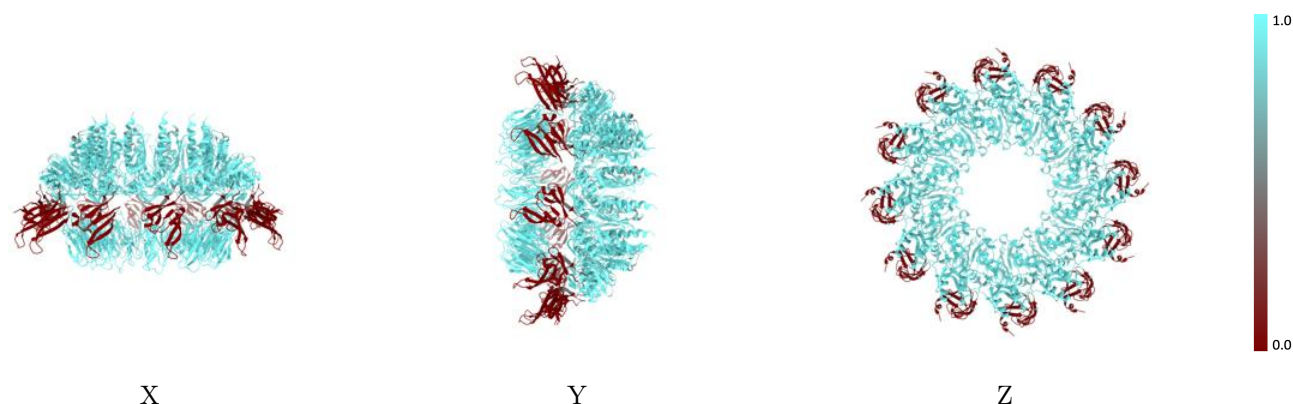
The images above show the 3D surface view of the map at the recommended contour level 0.28 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



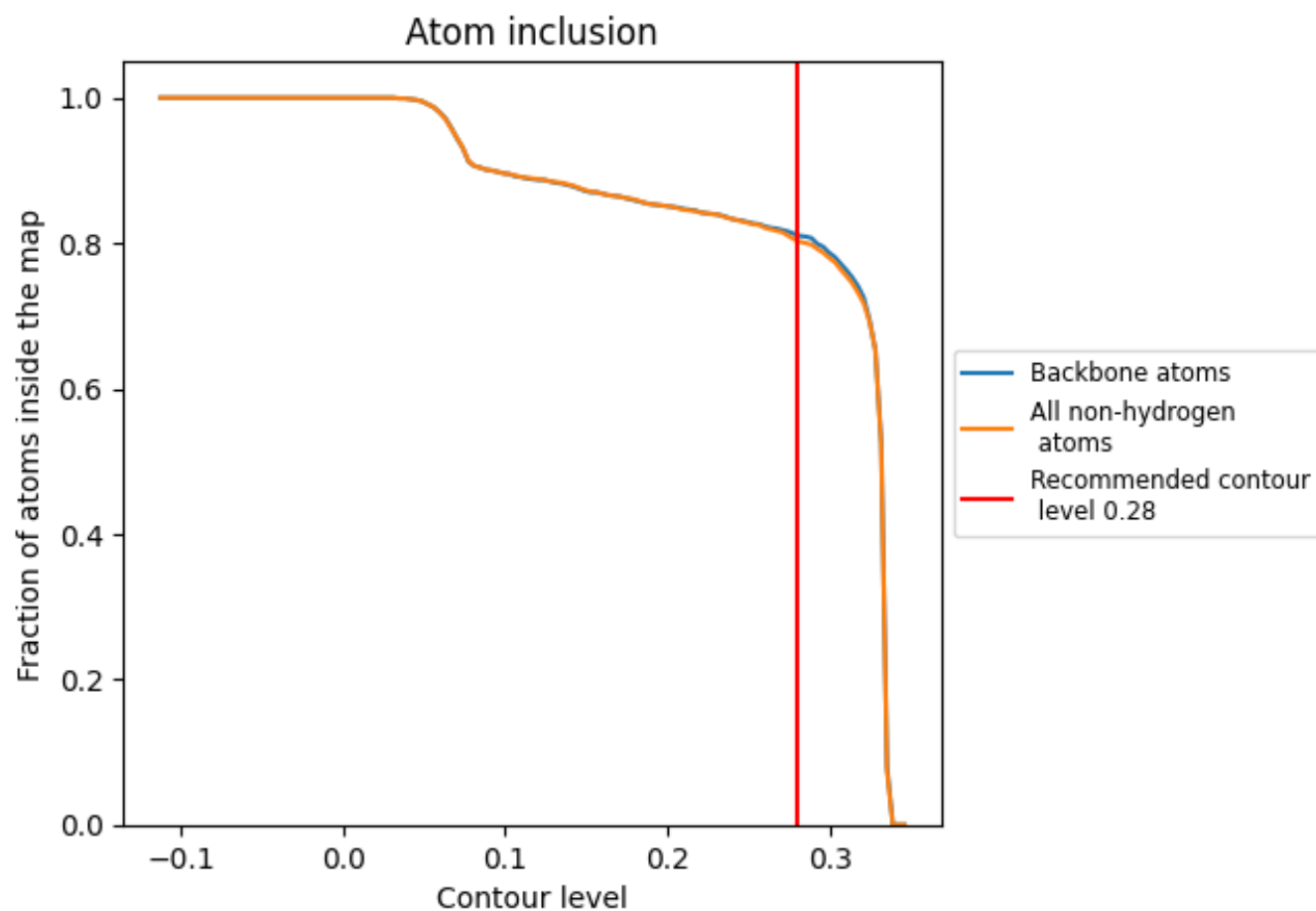
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.28).

9.4 Atom inclusion [i](#)



At the recommended contour level, 81% of all backbone atoms, 80% 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 (0.28) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8030	 0.0380
A	 0.9890	 0.0630
B	 0.9890	 0.0590
C	 0.9890	 0.0650
D	 0.9890	 0.0620
E	 0.9890	 0.0600
F	 0.9890	 0.0650
G	 0.9890	 0.0620
H	 0.9890	 0.0600
I	 0.9890	 0.0660
J	 0.9890	 0.0640
K	 0.9890	 0.0610
L	 0.9890	 0.0640
M	 0.0900	 -0.0540
N	 0.0900	 -0.0460
O	 0.0900	 -0.0540
P	 0.0900	 -0.0550
Q	 0.0900	 -0.0380
R	 0.0900	 -0.0470
S	 0.0900	 -0.0440
T	 0.0900	 -0.0320
U	 0.0900	 -0.0440
V	 0.0900	 -0.0460
W	 0.0900	 -0.0370
X	 0.0900	 -0.0520

