



Full wwPDB EM Validation Report ⓘ

Sep 28, 2024 – 09:57 AM EDT

PDB ID : 5U8S
EMDB ID : EMD-8518
Title : Structure of eukaryotic CMG helicase at a replication fork
Authors : Li, H.; Li, B.; Georgescu, R.; Yuan, Z.; Santos, R.; Sun, J.; Zhang, D.; Yurieva, O.; O'Donnell, M.E.
Deposited on : 2016-12-14
Resolution : 6.10 Å(reported)

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

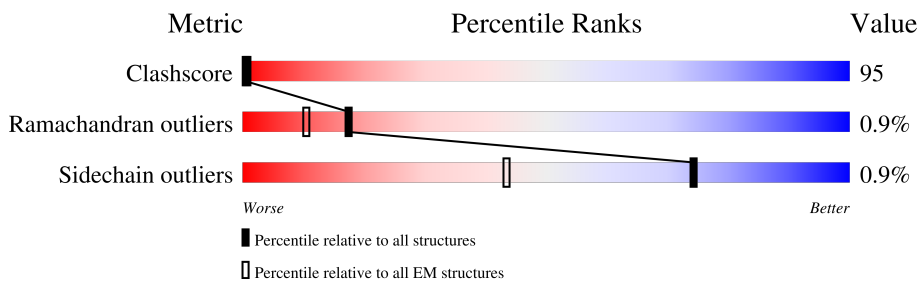
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.10 Å.

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



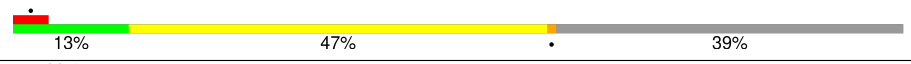
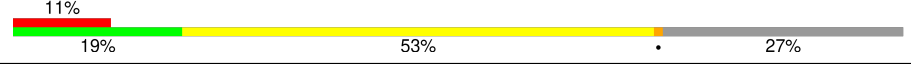
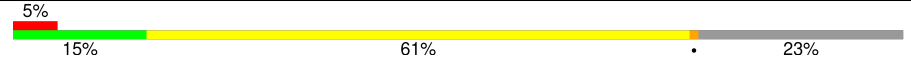
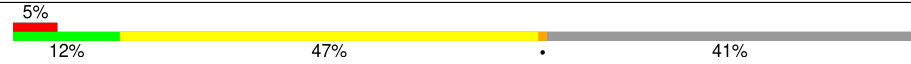
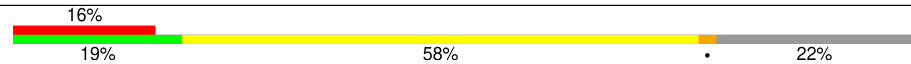
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	208	
2	B	213	
3	C	194	
4	D	294	
5	E	650	
6	F	26	
7	G	14	
8	2	868	

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Mol	Chain	Length	Quality of chain
9	3	971	
10	4	933	
11	5	775	
12	6	1017	
13	7	845	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	ATP	2	901	-	-	X	-
14	ATP	5	801	-	-	X	-

2 Entry composition i

There are 14 unique types of molecules in this entry. The entry contains 41018 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA replication complex GINS protein PSF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	208	1696	1065	290	331	10	0	0

- Molecule 2 is a protein called DNA replication complex GINS protein PSF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	181	1513	978	261	270	4	0	0

- Molecule 3 is a protein called DNA replication complex GINS protein PSF3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	159	1288	843	207	232	6	0	0

- Molecule 4 is a protein called DNA replication complex GINS protein SLD5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	221	1820	1159	300	348	13	0	0

- Molecule 5 is a protein called Cell division control protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	E	553	4482	2862	763	844	13	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
6	F	26	527	257	76	168	26	0	0

- Molecule 7 is a DNA chain called DNA (5'-D(P*AP*TP*CP*GP*AP*TP*CP*GP*AP*TP*CP*GP*AP*T)-3').

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
7	G	14	287	137	52	84	14	0	0

- Molecule 8 is a protein called DNA replication licensing factor MCM2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	2	602	4707	2969	841	880	17	0	0

- Molecule 9 is a protein called DNA replication licensing factor MCM3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	3	591	4638	2925	828	872	13	0	0

- Molecule 10 is a protein called DNA replication licensing factor MCM4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	4	682	5410	3397	946	1039	28	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4	469	VAL	LYS	conflict	UNP P30665
4	470	SER	VAL	conflict	UNP P30665

- Molecule 11 is a protein called Minichromosome maintenance protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	5	597	4688	2946	808	910	24	0	0

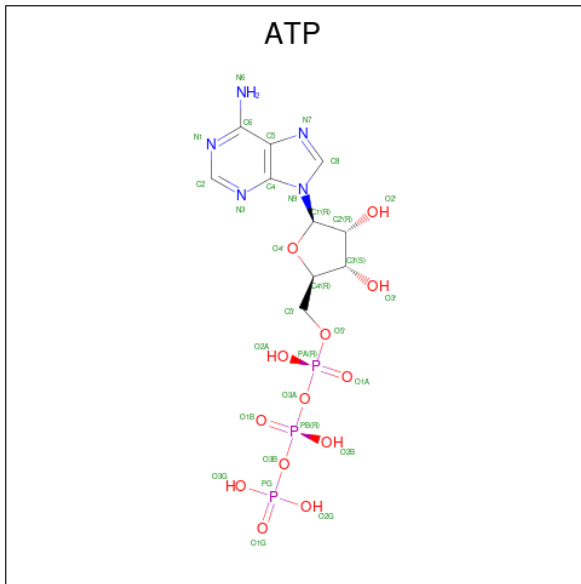
- Molecule 12 is a protein called DNA replication licensing factor MCM6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	6	604	4649	2929	822	878	20	0	0

- Molecule 13 is a protein called DNA replication licensing factor MCM7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	7	663	5220	3290	904	996	30	0	0

- Molecule 14 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
14	2	1	31	10	5	13	3	0
14	3	1	31	10	5	13	3	0
14	5	1	31	10	5	13	3	0

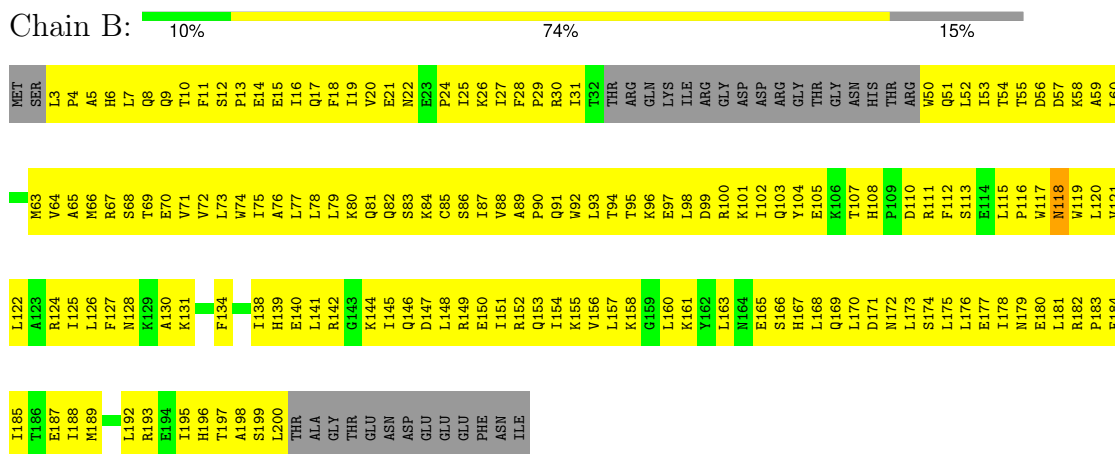
3 Residue-property plots [i](#)

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

- Molecule 1: DNA replication complex GINS protein PSF1

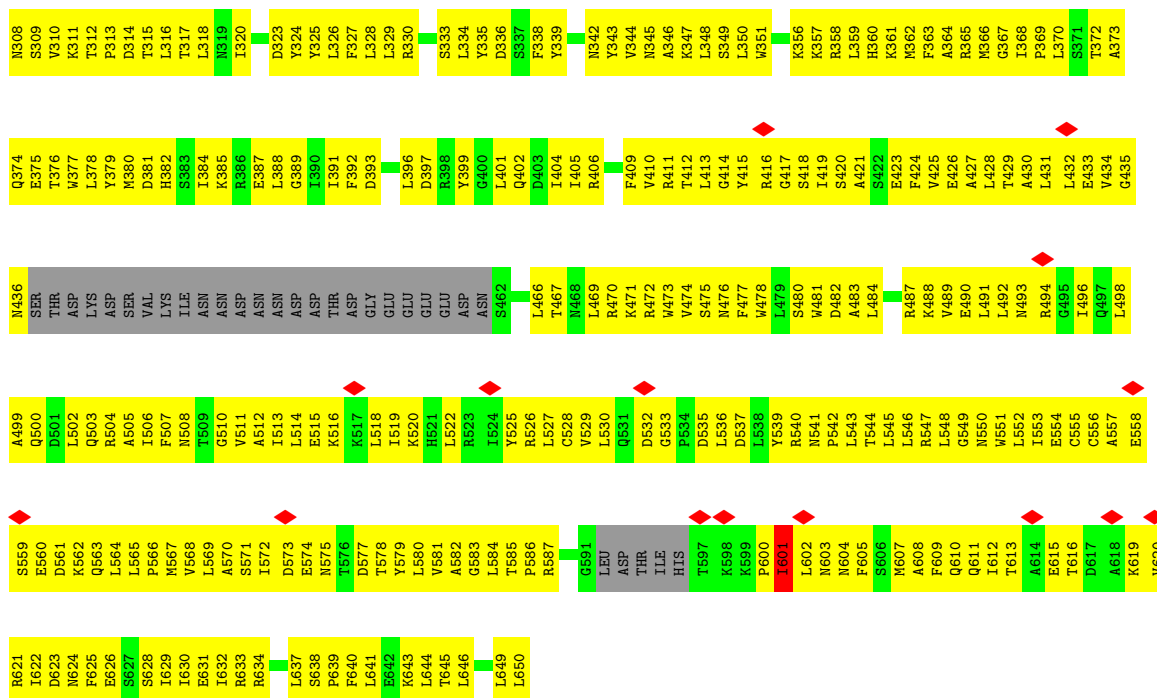


- Molecule 2: DNA replication complex GINS protein PSF2

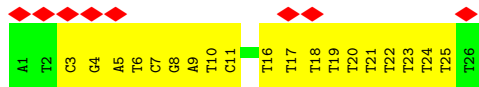
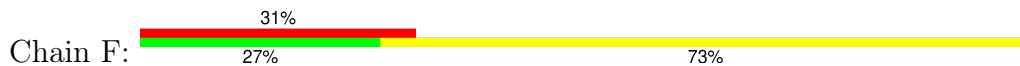


- Molecule 3: DNA replication complex GINS protein PSF3

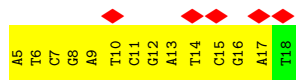




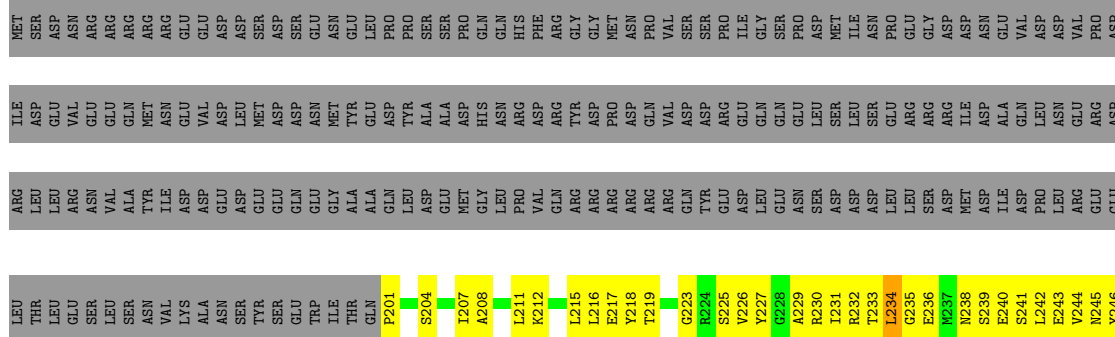
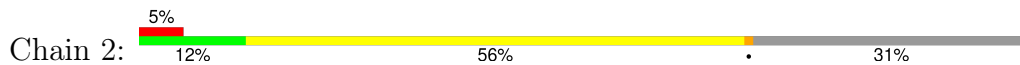
• Molecule 6: DNA (26-MER)

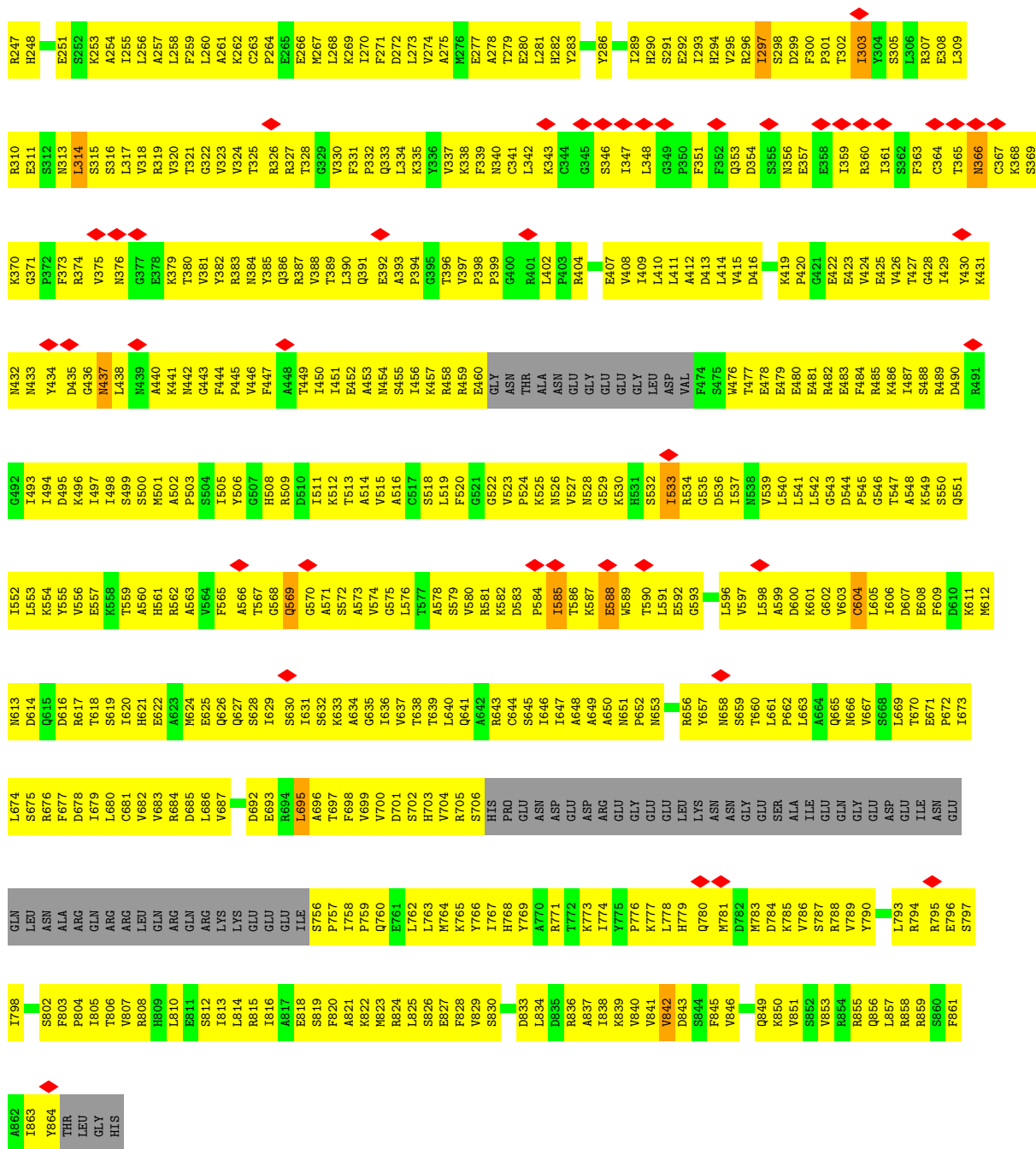


• Molecule 7: DNA (5'-D(P*AP*TP*CP*GP*AP*TP*CP*GP*AP*TP*CP*GP*AP*T)-3')



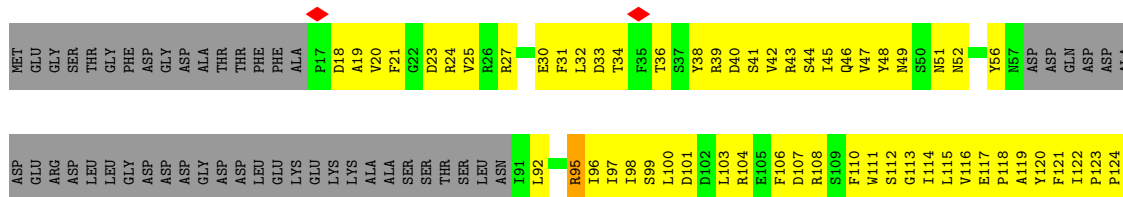
• Molecule 8: DNA replication licensing factor MCM2



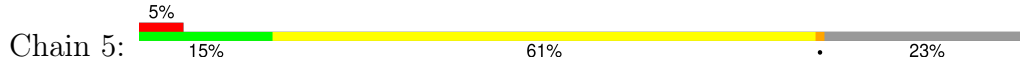


● Molecule 9: DNA replication licensing factor MCM3

Chain 3: 13% 47% 39%



● Molecule 11: Minichromosome maintenance protein 5



MET	L61	MET	C183	I243	N305	Y367	K431	A492	V556	Q617	V677
SER	T62	ASP	R184	I244	GLY	E368	V432	I493	K557	A618	D678
PHE	V63	THR	N185	H245	ALA	S369	S433	H494	H560	A619	T681
ASP	M64	THR	C186	H246	GLY	L370	P434	E498	N561	E620	E682
ARG	M65	THR	R187	E247	GLY	T371	I435	Q499	E562	L622	R683
PRO	E66	SER	H188	S248	GLY	N372	A436	O500	E563	S623	F684
GLU	H67	LEU	T189	K249	ARG	S373	V437	O501	R564	S624	G685
ILE	L68	LEU	T190	F250	ARG	I374	Y438	L501	D565	N625	
TYR	L69	LEU	S191	I251	GLY	A375	T439	L502	D566	G626	
SER	G70	SER	S131	D252	GLY	I378	S440	S503	F567	F627	T688
ALA	Y71	PRO	N72	Q253	GLY	F379	G441	L504	S567	V627	M689
PRO	N72	PRO	N72	Q254	ASN	E382	K442	A505	A568	T628	D690
VAL	E73	VAL	I134	F255	GLY	E383	G443	K506	A569	L629	A691
LEU	D74	LEU	N196	L256	GLY	D384	S444	A507	N570	R630	A691
GLN	I75	GLN	K257	K257	GLY	D385	S445	A508	H571	R631	A692
GLY	Y76	GLY	I138	L257	GLY	K386	A446	G508	V572	G632	S693
SER	K77	SER	L139	E258	G320	K387	A447	L509	N573	L633	ASP
GLU	Y76	GLU	N140	Q259	A322	A387	G448	T510	N574	L634	PRO
LEU	K78	LEU	H141	P262	I323	I388	L449	V511	H575	L635	ILE
PRO	L79	PRO	H142	E263	R324	V389	T450	L513	H576	M636	GLY
ASN	L79	ASN	A143	E264	R324	C390	A451	N514	S577	E637	GLY
ASP	L79	ASP	M144	E265	P326	C391	S452	S515	G578	L638	LEU
ASP	S80	ASP	Q145	V265	Y327	L392	Q454	R516	N579	L639	LEU
ASP	S80	ASP	Q145	V266	I328	K329	R455	R517	A580	S640	GLN
N24	P83	N24	T204	V267	I329	K393	P457	T520	N581	T641	ALA
T25	S84	T25	T205	G268	I330	M397	M458	N524	H582	E642	SER
E26	S84	E26	S206	E269	I331	K397	E461	F525	N585	R643	GLY
I27	I86	I27	L207	C268	L331	K398	F462	Y527	Q586	SER	THR
I28	I87	I28	P208	M270	C332	L400	L464	G528	Q587	SER	THR
K29	P88	K29	R209	R271	Q334	L401	L465	R529	T588	ILE	THR
F31	L89	F31	S210	P272	Q334	P401	L466	A468	H589	F647	GLU
K32	F90	K32	S153	R272	Q334	D402	L466	A468	N590	L648	GLU
N33	E91	N33	E154	L273	V337	G403	E465	G466	G591	T649	ILE
F34	T92	F34	H155	L274	I339	M404	E466	A468	S592	L650	ARG
I35	A93	I35	V156	L275	T339	R405	E467	A468	E593	R651	ARG
L36	I94	L36	S157	L276	S339	L406	G467	A468	L594	L652	PHE
E37	T95	E37	K158	L277	T339	R407	G467	A468	S595	L653	GLU
F38	V96	F38	I159	L278	S339	G408	G467	A468	L596	L654	GLN
R39	V97	R39	V160	L281	S339	D408	G467	A468	E597	E661	PRO
L40	K99	L40	R161	T281	S339	G409	G467	A468	K598	S662	ILE
L40	R100	L40	L162	T282	S339	I410	L471	A472	M599	L663	GLY
D41	S102	D41	G164	T283	S339	M411	L472	A472	X600	L664	TRP
S42	S102	S42	G164	T283	S339	V412	D473	G474	R601	K665	SER
Q43	LEU	Q43	LEU	I287	S339	V412	D473	G474	Y602	L666	THR
F44	SER	F44	ARG	P288	S339	L413	D473	G474	L603	E667	THR
I45	ARG	I45	ALA	G289	S339	L414	D473	G474	T604	L668	TYR
Y46	ALA	Y46	GLN	T290	S339	L415	V476	V476	Y605	S669	GLN
R47	GLN	R47	ASP	R291	S339	G416	C478	C478	C606	R670	THR
D48	SER	D48	GLU	V292	S339	D417	L479	L479	L608	L671	LEU
Q49	ALA	Q49	V171	I294	S339	P418	D480	D480	K609	A672	ARG
L50	ALA	L50	L172	V295	S339	G419	E481	E481	R549	O673	ARG
R51	ASN	R51	S173	G296	S339	A421	F482	F482	F550	E674	GLU
N62	ASN	N62	S174	I297	S339	K422	D483	D483	D551	R675	PHE
N63	ASP	N63	R175	Y298	S339	S423	K484	K484	M552	H676	VAL
L54	LYS	L54	A176	S299	S339	L425	M485	M485	L553		
L55	ASP	L55	T177	I300	S339	L426	R486	R486	F554		
V56	PRO	V56	Y178	G237	S339	K427	D487	D487	S554		
K57	GLU	K57	L179	P238	S339	K427	D487	D487	L554		
N68	ASN	N68	I181	D239	S339	K428	D488	D488	L555		
Y59	THR	Y59	I182	N302	S339	F428	R490	R490	F554		
S60	SER	S60	I182	K304	S339	V429	V491	V491	L555		

● Molecule 12: DNA replication licensing factor MCM6



MET	PHE	K183	Y305	T376	THR	ARG	E561	E624	V688	F746	L806
SER	VAL	G184	K306	L377	GLY	ASP	G562	AG25	G686	S747	S807
SER	ASN	L185	A307	D378	LEU	GLN	I563	AG26	G687	A748	E808
PRO	ASP	R186	S308	V379	ARG	GLU	K564	AG27	R688	E749	A809
PHE	SER	F187	F309	I380	SER	VAL	L565	L628	V689	Q750	L810
ALA	THR	R188	T310	L381	LEU	PHE	R566	M629	R691	L751	A811
ASP	GLN	V189	T310	L381	LEU	LEU	G567	M630	K692	R752	R812
ASP	PHE	R190	M313	R382	G444	ASN	D568	L630	K693	R753	R813
THR	SER	K191	C314	G383	V445	SER	I568	D632	A631	Y754	R814
SER	SER	A192	I317	V386	L448	LEU	N570	N633	N570	Y754	L814
SER	GLN	A193	V318	E387	T449	SER	S510	G634	S694	L755	C815
SER	ARG	E133	D319	K390	Y450	THR	D511	C636	L695	K756	C815
ASN	LEU	K134	N320	P391	K451	GLY	E512	G637	G575	Y757	L816
ARG	LEU	V135	V321	D392	L452	ASN	N513	V573	G576	R759	D817
ARG	THR	Y136	R322	G393	F454	LEU	N514	D576	C697	R759	D818
PRO	THR	R137	F325	R394	F454	LEU	E515	E640	N698	Y760	L819
ASN	GLY	A138	K326	C395	A456	LEU	L516	E641	N699	F761	R820
SER	GLY	Q139	K326	C396	A457	LEU	K517	F642	N700	K762	F821
SER	ASP	Q139	R326	C396	H458	GLN	E518	S643	N701	L763	S822
SER	ALA	I140	Y327	K396	A458	LEU	S580	K644	M702	P763	F823
SER	ALA	E141	Y327	K396	H458	LEU	S580	K645	A703	L764	L824
PRO	THR	F142	T328	F397	H458	LEU	S581	D645	P704	L765	L825
PRO	ASN	M143	E329	T398	V459	LEU	E582	D646	F705	I766	E826
PRO	LYS	M144	C333	V400	I460	LEU	E523	D647	R706	K767	A827
SER	MET	K144	C333	V400	S461	LEU	H524	D648	R708	A769	Y828
PRO	ASP	I145	N335	E401	G463	SER	I525	D649	F709	R770	D829
PRO	GLY	Y146	N335	I402	G463	ASN	I526	D649	D710	S771	L831
ILE	GLY	D147	P336	V403	SER	ASN	I527	D649	D711	Y772	R832
GLY	ASN	L148	S337	V404	ILE	ILE	Y528	D649	L712	Y773	R833
ALA	GLU	L148	S337	P405	GLY	GLY	K528	D649	F713	V774	S834
ALA	GLU	T150	N340	D406	ALA	ALA	K529	D649	F714	K775	L836
PHE	GLN	I151	N341	V407	SER	SER	L529	D649	V715	K776	L836
GLN	ARG	Y152	A342	V407	SER	PRO	V530	D649	L716	Y777	R837
SER	ASP	I153	F343	T408	SER	ASN	R531	D649	D717	K778	R838
SER	PHE	Y155	W344	Q409	PRO	ASP	S532	D649	E720	E779	V839
SER	LYS	D154	T345	L410	ASN	ASP	I533	D649	E721	L780	V840
SER	ASP	Y156	N347	G411	ALA	ASN	A534	D649	K722	R781	ASP
GLY	SER	Q156	F353	P413	ASN	ASN	V537	D649	I723	K782	ASP
GLY	LEU	L158	L354	G414	ASN	ASN	F538	D649	D724	D784	VAL
ASP	LEU	L158	D355	G414	ARG	ASN	E541	D649	E725	A785	GLU
GLY	LEU	L158	W356	K416	GLY	GLU	A542	D649	E726	Q786	ASP
GLY	LEU	L158	Q357	P417	THR	THR	L543	D649	L727	G787	GLU
ASP	LEU	L158	K358	S418	GLU	LEU	K544	D649	A728	F788	GLU
ASP	LEU	L158	V359	S418	GLN	GLN	K545	D649	S729	P789	PHE
ASP	LEU	L158	R360	T420	MET	GLN	K545	D649	H730	S789	ASP
ASP	LEU	L158	I361	LEU	ALA	ALA	A606	D649	I731	R790	ASN
ASP	LEU	L158	Q362	ASP	ALA	ALA	G607	D649	V732	S791	ILE
ASP	LEU	L158	E363	THR	ALA	ALA	L608	D649	D733	S792	ILE
ASP	LEU	L158	N364	ARG	ASN	ASN	L549	D649	A670	S793	GLU
ASP	LEU	L158	A365	GLY	LEU	LEU	A610	D649	L671	L734	SER
ASP	LEU	L158	N366	ILE	GLN	GLN	M551	D649	N673	H735	GLN
ASP	LEU	L158	E367	LEU	ALA	ALA	A611	D649	R675	M736	SER
ASP	LEU	L158	I368	SER	ALA	ASN	V612	D649	R675	K737	HIS
ASP	LEU	L158	P369	LYS	ASN	ASN	V613	D649	R675	R738	ALA
ASP	LEU	L158	T370	THR	THR	THR	G554	D649	T676	D739	ALA
ASP	LEU	L158	V300	GLY	THR	VAL	R614	D649	S677	E740	ALA
ASP	LEU	L158	R301	GLY	THR	THR	H556	D649	L678	Q799	SER
ASP	LEU	L158	S372	LEU	GLY	GLY	K557	D649	L679	L800	GLY
ASP	LEU	L158	M373	LEU	ASN	ASN	S558	D649	A680	E801	ASN
ASP	LEU	L158	P374	ASN	ASN	ASN	T559	D649	A681	S802	ASN
ASP	LEU	L158	R375	GLY	GLY	GLY	V560	D649	A682	R803	ASP
ASP	LEU	L158	R375	VAL	VAL	VAL	T622	D649	N683	L804	ASP
ASP	LEU	L158	R375	E120	E120	E120	I623	D649	P684	R805	ASP

P686
R687
T688
L689
L690
G691
I692
I693
R694
L695
S696
Q697
A698
L699
A700
K701
L702
R703
L704
A705
D706
M707
V708
D709
I710
E711
D712
V713
E714
E715
A716
L717
R718
L719
V720
R721
V722
S726
Q729
GLU
THR
ASN
LYS
SER
LYS
GLU
ASP
GLU
SER
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PRO
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ARG
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ARG
ASN
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V713
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TYR
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VAL
TRP
HIS
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GLY
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ALA
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ASP
LEU
GLN
ASP
ALA

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	243796	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	10	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.079	Depositor
Minimum map value	-0.033	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	332.8, 332.8, 332.8	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.24	0/1718	0.51	1/2314 (0.0%)
2	B	0.23	0/1545	0.47	0/2092
3	C	0.23	0/1320	0.41	0/1784
4	D	0.24	0/1853	0.48	0/2500
5	E	0.23	0/4563	0.45	0/6173
6	F	0.48	0/585	0.99	0/901
7	G	0.51	0/321	0.90	0/493
8	2	0.24	0/4787	0.52	1/6469 (0.0%)
9	3	0.23	0/4717	0.49	0/6393
10	4	0.25	0/5480	0.52	0/7395
11	5	0.24	0/4750	0.48	0/6412
12	6	0.24	0/4719	0.51	1/6373 (0.0%)
13	7	0.24	0/5299	0.51	1/7160 (0.0%)
All	All	0.25	0/41657	0.51	4/56459 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
4	D	0	1
9	3	0	1
10	4	0	2
12	6	0	3
13	7	0	1
All	All	0	9

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	7	369	GLY	N-CA-C	7.97	133.04	113.10
1	A	106	GLY	N-CA-C	7.29	131.32	113.10
8	2	366	ASN	C-N-CA	6.50	137.94	121.70
12	6	628	LEU	CA-CB-CG	5.26	127.39	115.30

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
9	3	428	LEU	Peptide
10	4	373	ARG	Peptide
10	4	408	ASP	Peptide
12	6	133	GLU	Peptide
12	6	333	CYS	Peptide
12	6	560	VAL	Peptide
13	7	486	LYS	Peptide
1	A	160	ASP	Peptide
4	D	258	VAL	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1696	0	1698	437	0
2	B	1513	0	1558	354	0
3	C	1288	0	1298	283	0
4	D	1820	0	1824	452	0
5	E	4482	0	4499	910	0
6	F	527	0	303	50	0
7	G	287	0	159	16	0
8	2	4707	0	4721	1026	0
9	3	4638	0	4701	925	0
10	4	5410	0	5491	980	0
11	5	4688	0	4748	992	0
12	6	4649	0	4589	1048	0
13	7	5220	0	5296	901	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	2	31	0	12	12	0
14	3	31	0	12	5	0
14	5	31	0	12	12	0
All	All	41018	0	40921	7794	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 95.

All (7794) 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)
11:5:302:ASN:OD1	11:5:324:ARG:CZ	1.64	1.46
5:E:5:ILE:N	5:E:142:CYS:HG	1.30	1.26
13:7:94:LEU:HB2	13:7:95:GLN:HB2	1.21	1.19
13:7:680:SER:HB2	13:7:681:PHE:HA	1.22	1.19
11:5:303:SER:O	11:5:304:LYS:HG3	1.41	1.17
10:4:589:VAL:HG21	10:4:624:SER:HA	1.19	1.16
8:2:582:LYS:HA	8:2:583:ASP:HB2	1.20	1.15
13:7:504:ASP:HB3	13:7:505:GLU:HB3	1.25	1.15
2:B:170:LEU:HB2	4:D:274:ILE:HG13	1.19	1.15
5:E:392:PHE:HA	5:E:396:LEU:HD23	1.27	1.15
1:A:47:LEU:HD21	1:A:75:THR:HB	1.21	1.14
1:A:182:ASN:HB3	5:E:74:LEU:HD13	1.26	1.14
5:E:84:VAL:HA	5:E:123:LEU:HB2	1.26	1.13
5:E:92:LEU:HA	5:E:95:PHE:HB3	1.28	1.13
10:4:607:ARG:HA	10:4:614:LEU:HA	1.23	1.13
5:E:84:VAL:HG22	5:E:123:LEU:HD12	1.26	1.13
10:4:568:GLY:HA3	10:4:708:VAL:HB	1.31	1.12
12:6:558:SER:HB3	12:6:559:THR:HA	1.28	1.12
11:5:461:GLU:HG2	11:5:462:PHE:H	1.10	1.12
12:6:689:TYR:HA	12:6:690:ASN:HB2	1.28	1.12
13:7:575:ASN:HB3	13:7:578:LEU:HD13	1.31	1.11
4:D:256:TYR:HB2	4:D:257:THR:HG22	1.26	1.11
10:4:319:PRO:HB3	13:7:253:PRO:HB3	1.33	1.11
9:3:172:THR:HB	9:3:173:ALA:HA	1.22	1.11
9:3:566:LEU:HD22	11:5:619:ALA:HB1	1.32	1.11
5:E:293:PRO:HA	5:E:296:GLN:HB2	1.30	1.10
10:4:261:LEU:HA	10:4:268:VAL:HG21	1.31	1.10
8:2:621:HIS:HB2	8:2:673:ILE:HG13	1.33	1.10
10:4:661:ILE:HG21	12:6:392:GLY:HA3	1.21	1.10
8:2:581:ARG:HD3	8:2:634:ALA:HB2	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:794:ARG:HG3	8:2:805:ILE:HG21	1.25	1.09
9:3:437:SER:HB3	9:3:438:SER:HA	1.30	1.09
4:D:216:VAL:HG13	4:D:217:ASN:HA	1.16	1.09
8:2:212:LYS:HE3	8:2:274:VAL:HB	1.26	1.09
8:2:335:LYS:HD2	8:2:383:ARG:HH11	1.14	1.09
11:5:482:PHE:HB3	11:5:523:ALA:HB2	1.22	1.09
11:5:375:ALA:HB1	11:5:378:ILE:HB	1.12	1.09
9:3:314:LEU:HA	11:5:201:THR:HA	1.34	1.09
9:3:486:ILE:HA	9:3:489:VAL:HB	1.32	1.09
8:2:322:GLY:HA3	8:2:390:LEU:HD21	1.28	1.08
1:A:67:VAL:HG11	3:C:25:PRO:HD2	1.34	1.08
1:A:108:ASP:HB3	1:A:109:LEU:HB3	1.12	1.08
12:6:560:VAL:HB	12:6:561:GLU:HA	1.33	1.08
8:2:459:ARG:HA	8:2:460:GLU:HB2	1.14	1.08
9:3:119:ALA:HB1	9:3:222:THR:HG22	1.29	1.08
5:E:503:GLN:HA	5:E:506:ILE:HB	1.36	1.08
12:6:143:MET:HE1	12:6:148:LEU:HB2	1.28	1.07
5:E:346:ALA:HB2	5:E:555:CYS:HA	1.33	1.07
10:4:370:ARG:HB2	10:4:371:CYS:HB2	1.35	1.07
12:6:106:VAL:HA	12:6:109:GLU:HB3	1.36	1.07
12:6:133:GLU:HB3	12:6:134:LYS:HA	1.36	1.07
2:B:30:ARG:HD3	2:B:66:MET:HE1	1.29	1.07
12:6:606:ALA:HB2	12:6:609:THR:HB	1.34	1.07
12:6:656:MET:HB3	12:6:708:ARG:HG2	1.34	1.07
3:C:12:ASP:HA	3:C:48:LEU:HB3	1.32	1.07
8:2:338:LYS:HE2	8:2:379:LYS:HB2	1.35	1.07
8:2:578:ALA:HB2	8:2:593:GLY:HA2	1.32	1.07
9:3:533:ILE:HG21	9:3:540:LEU:HD11	1.31	1.07
12:6:662:SER:HB3	12:6:671:THR:HG22	1.37	1.06
10:4:578:LEU:HD21	10:4:672:LEU:HD22	1.36	1.06
1:A:100:MET:HG3	1:A:104:ASN:HD21	1.12	1.06
4:D:76:LEU:HD22	4:D:151:ILE:HD11	1.31	1.06
8:2:777:LYS:H	8:2:828:PHE:HA	1.17	1.06
13:7:311:GLN:HB3	13:7:335:VAL:HB	1.36	1.06
4:D:230:ILE:HA	4:D:293:LEU:HA	1.32	1.06
8:2:266:GLU:HA	8:2:269:LYS:HB3	1.34	1.06
9:3:386:MET:HB3	9:3:714:LYS:HD2	1.27	1.06
12:6:613:VAL:HB	12:6:622:THR:HB	1.35	1.06
13:7:434:LEU:HD21	13:7:699:LEU:HD23	1.38	1.05
2:B:163:LEU:HB3	2:B:189:MET:HE1	1.33	1.05
10:4:592:SER:HA	10:4:632:ASP:HB2	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:810:ILE:HD11	12:6:827:ALA:HB2	1.37	1.05
3:C:137:HIS:HA	11:5:55:LEU:HD13	1.38	1.05
12:6:151:ILE:HD11	12:6:265:ILE:HG23	1.32	1.05
5:E:25:CYS:HB3	5:E:26:GLN:HA	1.37	1.04
8:2:813:ILE:HD12	8:2:841:VAL:HG21	1.37	1.04
8:2:388:VAL:HB	8:2:408:VAL:HB	1.38	1.04
8:2:502:ALA:HB3	8:2:512:LYS:HE2	1.40	1.04
9:3:403:ILE:HD11	9:3:707:ARG:HB3	1.31	1.04
11:5:412:VAL:HB	11:5:520:LEU:HG	1.37	1.04
13:7:402:MET:HA	13:7:405:ILE:HB	1.39	1.04
1:A:129:GLU:HA	1:A:132:LYS:HE3	1.39	1.04
8:2:268:LEU:HA	8:2:271:PHE:HB3	1.37	1.04
11:5:264:LEU:HB2	11:5:265:VAL:HG22	1.40	1.04
8:2:423:GLU:HB2	8:2:459:ARG:HB2	1.36	1.04
5:E:513:ILE:HG23	5:E:518:LEU:HD12	1.34	1.03
11:5:75:ILE:HA	11:5:78:LYS:HB3	1.39	1.03
1:A:7:ASN:HA	1:A:10:VAL:HG12	1.40	1.03
8:2:264:PRO:HG3	8:2:317:LEU:HB2	1.40	1.03
8:2:501:MET:HG2	8:2:512:LYS:HB3	1.40	1.03
9:3:201:HIS:HB2	9:3:210:HIS:HB2	1.34	1.03
12:6:588:VAL:HA	12:6:591:PHE:HB3	1.40	1.03
8:2:593:GLY:HA3	8:2:597:VAL:HG21	1.39	1.03
12:6:695:LEU:HB3	12:6:838:VAL:HG13	1.36	1.03
5:E:31:VAL:HB	5:E:60:PRO:HA	1.36	1.02
4:D:145:ARG:HA	4:D:148:LEU:HD12	1.41	1.02
11:5:302:ASN:OD1	11:5:324:ARG:NE	1.93	1.02
4:D:220:ASP:HB3	4:D:221:GLU:HG2	1.38	1.02
9:3:441:GLY:HA3	9:3:462:MET:HB3	1.40	1.02
1:A:58:GLN:HA	1:A:62:MET:HB2	1.40	1.02
5:E:34:LEU:HD11	5:E:543:LEU:HD11	1.36	1.01
10:4:332:VAL:HB	10:4:429:ALA:HA	1.41	1.01
11:5:477:VAL:HB	11:5:519:VAL:HA	1.41	1.01
10:4:512:VAL:HG12	10:4:518:LEU:HD12	1.37	1.01
10:4:538:LYS:HD2	10:4:828:LEU:HD21	1.43	1.01
9:3:116:VAL:HG12	9:3:117:GLU:HG3	1.42	1.01
10:4:527:ALA:HB1	10:4:530:ILE:HD13	1.37	1.01
11:5:654:GLU:HA	11:5:657:ILE:HD12	1.42	1.01
9:3:156:SER:HB2	9:3:325:THR:HG22	1.38	1.01
4:D:216:VAL:CG1	4:D:217:ASN:HA	1.90	1.01
5:E:316:LEU:HD11	5:E:414:GLY:HA3	1.42	1.01
11:5:86:ILE:HG23	11:5:89:LEU:HD12	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:758:ILE:HD11	10:4:813:LEU:HD23	1.41	1.00
11:5:415:LEU:HD11	11:5:555:ILE:HG12	1.42	1.00
9:3:339:ARG:H	9:3:340:GLN:HB2	1.25	1.00
2:B:59:ALA:HB1	2:B:60:LEU:HB2	1.43	1.00
5:E:47:LEU:HA	5:E:50:LYS:HD3	1.41	1.00
9:3:413:THR:HG23	9:3:549:VAL:HG11	1.41	1.00
10:4:765:ALA:HB1	10:4:819:LEU:HD12	1.43	1.00
12:6:806:LEU:HB3	12:6:827:ALA:HB1	1.43	1.00
12:6:112:ARG:HH22	12:6:183:LYS:HB2	1.24	1.00
8:2:630:SER:HB2	11:5:444:SER:HA	1.39	1.00
9:3:368:ALA:HB1	9:3:371:ILE:HB	1.38	1.00
1:A:29:LEU:HD21	1:A:96:ILE:HG21	1.44	1.00
10:4:303:VAL:HG12	10:4:305:PRO:HD3	1.43	1.00
3:C:18:CYS:HB3	3:C:74:LEU:HA	1.44	0.99
9:3:339:ARG:HB2	9:3:340:GLN:HA	1.45	0.99
9:3:214:TYR:HE1	9:3:229:ALA:HB3	1.26	0.99
12:6:625:ALA:HB3	12:6:626:GLY:HA2	1.40	0.99
12:6:792:SER:HA	12:6:793:TYR:HB2	1.42	0.99
11:5:302:ASN:CG	11:5:324:ARG:HG2	1.83	0.99
12:6:819:ILE:HG22	12:6:820:THR:H	1.27	0.99
4:D:214:GLY:HA2	4:D:216:VAL:HA	1.41	0.99
1:A:169:LYS:H	1:A:185:LYS:HD3	1.28	0.98
8:2:813:ILE:HA	8:2:816:ILE:HD12	1.45	0.98
11:5:184:ARG:HB3	11:5:242:ILE:HD11	1.44	0.98
13:7:273:VAL:HG13	13:7:278:PHE:HB3	1.42	0.98
13:7:436:LEU:HD21	13:7:473:ILE:HG23	1.45	0.98
11:5:449:LEU:HD21	11:5:493:ILE:HD11	1.45	0.98
13:7:599:LEU:HD11	13:7:726:SER:HB3	1.44	0.98
11:5:292:VAL:HG23	11:5:294:ILE:HD11	1.43	0.98
3:C:112:ILE:HD11	3:C:121:ALA:HB2	1.45	0.98
1:A:71:GLN:HA	1:A:74:VAL:HB	1.46	0.97
3:C:20:PHE:HE1	3:C:46:LEU:HD11	1.25	0.97
12:6:288:LEU:H	12:6:399:GLY:HA3	1.28	0.97
12:6:706:MET:HA	12:6:712:PHE:HZ	1.29	0.97
11:5:382:GLU:HA	11:5:385:LYS:HB3	1.43	0.97
10:4:419:VAL:HA	10:4:463:VAL:HG21	1.42	0.97
5:E:8:PHE:HB3	5:E:258:LEU:HD12	1.47	0.97
5:E:345:ASN:HA	5:E:350:LEU:HG	1.43	0.97
8:2:231:ILE:HG23	8:2:279:THR:HG23	1.43	0.97
1:A:123:LEU:HD21	1:A:127:GLU:HB2	1.44	0.97
8:2:339:PHE:HB2	8:2:348:LEU:HD23	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:582:LYS:HZ1	8:2:591:LEU:HD12	1.26	0.97
6:F:18:DT:H4'	9:3:448:THR:HG21	1.45	0.97
10:4:824:GLU:HA	10:4:827:ARG:HB3	1.45	0.97
3:C:27:LEU:HD23	3:C:29:TYR:H	1.28	0.97
1:A:108:ASP:HB3	1:A:109:LEU:CB	1.93	0.97
13:7:513:LEU:HD13	13:7:540:VAL:HG21	1.45	0.97
10:4:798:LEU:HA	10:4:801:MET:HE3	1.47	0.96
5:E:577:ASP:HB2	5:E:633:ARG:HE	1.30	0.96
11:5:276:MET:HB3	11:5:330:ILE:HD11	1.46	0.96
8:2:488:SER:HB2	8:2:825:LEU:HD13	1.44	0.96
8:2:332:PRO:HG3	11:5:300:ILE:HD12	1.46	0.96
13:7:251:VAL:HB	13:7:311:GLN:HB2	1.48	0.96
8:2:574:VAL:HG23	8:2:575:GLY:H	1.27	0.96
12:6:525:ILE:HA	12:6:528:LYS:HB2	1.47	0.96
13:7:670:ASP:HA	13:7:673:ARG:HG2	1.46	0.96
4:D:230:ILE:HG22	4:D:293:LEU:HG	1.47	0.96
5:E:29:ILE:HD11	5:E:58:ILE:HG23	1.46	0.96
8:2:617:ARG:HG3	8:2:620:ILE:HD12	1.46	0.96
9:3:159:GLY:HA2	9:3:160:SER:HB2	1.46	0.96
12:6:695:LEU:HD13	12:6:838:VAL:HG22	1.47	0.96
13:7:357:PRO:HA	13:7:374:THR:HA	1.45	0.95
12:6:662:SER:HA	12:6:671:THR:HA	1.48	0.95
1:A:147:VAL:HG21	1:A:149:ILE:HD12	1.45	0.95
3:C:27:LEU:HG	3:C:38:ILE:HD11	1.47	0.95
5:E:73:GLN:HG2	5:E:74:LEU:HG	1.49	0.95
10:4:377:ASN:CB	10:4:378:GLU:HA	1.96	0.95
13:7:94:LEU:CB	13:7:95:GLN:HB2	1.96	0.95
13:7:543:GLN:HG3	13:7:544:GLN:H	1.29	0.95
2:B:12:SER:HB3	2:B:15:GLU:HG3	1.49	0.95
11:5:414:LEU:HD13	11:5:422:LYS:HB2	1.46	0.95
12:6:552:LEU:HD11	12:6:755:ILE:HG23	1.46	0.95
13:7:520:ILE:HA	13:7:562:SER:HB2	1.46	0.95
10:4:714:GLU:H	10:4:715:LYS:HB3	1.31	0.95
10:4:461:VAL:HG12	10:4:463:VAL:H	1.30	0.94
9:3:519:VAL:HG22	9:3:534:ALA:HB2	1.49	0.94
10:4:289:LEU:HD22	10:4:293:LEU:HD23	1.49	0.94
3:C:137:HIS:HB3	11:5:55:LEU:HB3	1.46	0.94
4:D:200:LYS:HB2	4:D:201:TYR:HB2	1.48	0.94
11:5:302:ASN:OD1	11:5:324:ARG:NH1	2.00	0.94
13:7:459:MET:HE1	13:7:584:ILE:HG23	1.49	0.94
13:7:581:LEU:HB2	13:7:681:PHE:HE1	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:172:THR:HB	9:3:173:ALA:CA	1.97	0.94
10:4:434:GLU:HB3	10:4:467:LYS:HB3	1.46	0.94
13:7:493:LEU:HD13	13:7:513:LEU:HD12	1.48	0.94
8:2:798:ILE:HD13	11:5:560:HIS:HB2	1.47	0.94
12:6:158:LEU:HD13	12:6:170:ILE:HD11	1.50	0.94
9:3:158:LYS:HA	9:3:327:TYR:HE2	1.31	0.93
2:B:170:LEU:HD11	4:D:276:VAL:HG23	1.49	0.93
8:2:794:ARG:HG2	8:2:798:ILE:HD11	1.45	0.93
5:E:292:TYR:HB2	5:E:293:PRO:HD3	1.50	0.93
9:3:425:THR:HG22	9:3:657:ARG:HH11	1.29	0.93
13:7:459:MET:HB3	13:7:597:LEU:HD21	1.51	0.93
8:2:319:ARG:HA	8:2:427:THR:HA	1.51	0.93
10:4:565:LEU:HD21	10:4:675:ALA:HB2	1.50	0.93
12:6:632:ASP:HA	12:6:676:THR:HG22	1.49	0.93
1:A:168:LEU:HD11	1:A:206:GLN:HB2	1.50	0.93
8:2:579:SER:HA	8:2:633:LYS:HD2	1.49	0.93
12:6:355:ASP:HB3	12:6:356:TRP:HA	1.49	0.93
13:7:586:LEU:HB3	13:7:590:LEU:HD22	1.48	0.93
8:2:520:PHE:HE2	8:2:822:LYS:HB2	1.32	0.93
8:2:803:PHE:HB2	8:2:805:ILE:H	1.34	0.93
9:3:356:LYS:HB2	9:3:359:ILE:HG23	1.48	0.93
12:6:711:LEU:HD23	12:6:834:SER:HB3	1.51	0.93
12:6:175:TYR:HA	12:6:178:LEU:HD13	1.49	0.93
10:4:234:ARG:HB3	10:4:280:MET:HE1	1.51	0.92
1:A:149:ILE:HA	1:A:150:ASP:HB2	1.49	0.92
8:2:207:ILE:HG22	8:2:211:LEU:HD23	1.49	0.92
10:4:629:CYS:HB3	10:4:671:ILE:HG12	1.51	0.92
12:6:552:LEU:HG	12:6:759:ARG:HD2	1.51	0.92
5:E:308:ASN:HA	5:E:309:SER:HB2	1.50	0.92
12:6:795:ILE:HG22	12:6:799:GLN:HG3	1.52	0.92
12:6:802:SER:HA	12:6:805:ARG:HG2	1.52	0.92
1:A:46:ASN:HA	1:A:49:LYS:HE3	1.48	0.92
10:4:342:MET:HB3	10:4:360:ILE:HG12	1.51	0.92
1:A:16:THR:HA	1:A:19:LEU:HB2	1.50	0.92
5:E:559:SER:HA	5:E:560:GLU:HB3	1.50	0.92
1:A:108:ASP:CB	1:A:109:LEU:HB3	1.99	0.92
9:3:194:PRO:HG3	13:7:374:THR:HG22	1.52	0.92
10:4:714:GLU:N	10:4:715:LYS:HB3	1.83	0.92
5:E:140:ILE:HA	5:E:141:GLN:HB3	1.50	0.92
9:3:192:VAL:HG22	9:3:254:GLN:HB2	1.51	0.92
10:4:333:LEU:HD11	10:4:400:GLN:HB2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:64:TYR:HB2	5:E:625:PHE:HA	1.52	0.91
8:2:585:ILE:N	8:2:587:LYS:O	2.03	0.91
9:3:129:LEU:HD22	9:3:153:TRP:HB3	1.51	0.91
9:3:254:GLN:HB3	9:3:278:LEU:HB2	1.50	0.91
5:E:381:ASP:HB2	5:E:384:ILE:HG13	1.50	0.91
9:3:673:GLN:HA	9:3:676:ILE:HD13	1.52	0.91
9:3:300:SER:HA	9:3:319:THR:HG22	1.51	0.91
10:4:589:VAL:CG2	10:4:624:SER:HA	2.01	0.91
8:2:705:ARG:HB2	12:6:559:THR:HB	1.49	0.91
10:4:530:ILE:HG21	10:4:533:LEU:HD11	1.49	0.91
4:D:195:ASN:HA	4:D:199:LEU:HD12	1.51	0.91
9:3:100:LEU:HG	9:3:157:PHE:HB3	1.52	0.91
13:7:458:LEU:HD13	13:7:600:MET:HE1	1.49	0.91
5:E:151:THR:HA	5:E:152:LEU:HB3	1.53	0.91
5:E:287:VAL:HG13	5:E:290:ARG:HH11	1.35	0.91
5:E:149:ASP:N	5:E:150:ASP:HA	1.83	0.91
11:5:303:SER:O	11:5:304:LYS:CG	2.18	0.91
12:6:357:GLN:HG2	12:6:386:VAL:HG23	1.53	0.91
8:2:523:VAL:HG12	8:2:525:LYS:HB3	1.52	0.90
1:A:168:LEU:HD21	1:A:206:GLN:HB2	1.52	0.90
5:E:5:ILE:N	5:E:142:CYS:SG	2.44	0.90
5:E:360:HIS:HA	5:E:363:PHE:HD2	1.33	0.90
10:4:512:VAL:HG22	10:4:515:ARG:HH12	1.33	0.90
10:4:435:VAL:HG22	10:4:466:VAL:HA	1.52	0.90
11:5:450:THR:HG23	11:5:489:ASP:HB2	1.51	0.90
5:E:43:LYS:HA	5:E:46:SER:HB3	1.53	0.90
6:F:16:DT:H2 ⁷	6:F:17:DT:H5 ⁷	1.52	0.90
9:3:233:THR:HG22	9:3:234:GLU:HG2	1.52	0.90
11:5:354:GLU:HG2	11:5:605:TYR:HE1	1.36	0.90
11:5:413:LEU:HB2	11:5:553:ILE:HG23	1.54	0.90
12:6:660:THR:HB	12:6:673:ASN:HA	1.54	0.90
12:6:811:ALA:HB2	12:6:819:ILE:HG13	1.53	0.90
4:D:170:SER:HB3	4:D:175:LEU:HD13	1.53	0.90
5:E:28:VAL:HG22	5:E:57:GLN:HB3	1.51	0.90
8:2:562:ARG:HH11	8:2:599:ALA:HA	1.35	0.90
9:3:103:LEU:HB2	9:3:111:TRP:HE3	1.34	0.90
13:7:127:LEU:HG	13:7:128:PRO:HD3	1.50	0.90
13:7:318:LEU:HD22	13:7:320:GLN:HG2	1.52	0.90
8:2:508:HIS:HB2	8:2:511:ILE:HG22	1.53	0.90
13:7:443:ARG:HG3	13:7:449:LYS:HE3	1.54	0.90
1:A:22:ARG:HB3	1:A:23:SER:HA	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:36:ILE:HG23	5:E:39:LEU:HD12	1.50	0.90
6:F:16:DT:H2'	6:F:17:DT:C5'	2.01	0.90
10:4:543:GLN:HA	10:4:562:ILE:HD11	1.54	0.90
13:7:14:TYR:HA	13:7:17:LEU:HB2	1.53	0.90
8:2:496:LYS:HA	8:2:499:SER:HB3	1.52	0.89
9:3:347:ILE:HA	9:3:350:ILE:HD13	1.54	0.89
10:4:192:THR:HG22	10:4:195:ARG:HH21	1.37	0.89
11:5:633:LEU:HB2	11:5:648:ILE:HD11	1.53	0.89
4:D:256:TYR:HB2	4:D:257:THR:CG2	2.03	0.89
13:7:581:LEU:HB2	13:7:681:PHE:CE1	2.07	0.89
8:2:323:VAL:HG23	8:2:393:ALA:HA	1.54	0.89
11:5:678:ASP:HA	11:5:681:ILE:HD13	1.52	0.89
12:6:689:TYR:HA	12:6:690:ASN:CB	2.01	0.89
5:E:360:HIS:HB2	8:2:236:GLU:HG2	1.54	0.89
12:6:551:MET:HA	12:6:635:ILE:HD11	1.54	0.89
1:A:109:LEU:HG	1:A:111:SER:HB3	1.52	0.89
8:2:541:LEU:HD22	8:2:649:ALA:HB1	1.55	0.89
8:2:639:THR:HA	11:5:445:SER:HB3	1.55	0.89
4:D:191:LEU:HA	4:D:194:VAL:HG12	1.53	0.89
12:6:561:GLU:N	12:6:562:GLY:HA3	1.87	0.89
11:5:349:PHE:HB3	11:5:601:ARG:HH21	1.37	0.88
5:E:380:MET:HB2	5:E:385:LYS:HE2	1.54	0.88
8:2:604:CYS:HB3	8:2:646:ILE:HA	1.55	0.88
11:5:88:PRO:HD3	11:5:196:ASN:HD22	1.38	0.88
11:5:209:ARG:HG2	11:5:239:ASP:HB3	1.55	0.88
10:4:794:THR:HG22	10:4:797:GLN:HG2	1.55	0.88
2:B:28:PHE:HB2	2:B:86:SER:HB2	1.55	0.88
13:7:17:LEU:HD23	13:7:102:LEU:HD23	1.56	0.88
8:2:778:LEU:HA	8:2:829:VAL:HB	1.55	0.88
9:3:23:ASP:O	9:3:27:ARG:N	2.07	0.88
13:7:251:VAL:HG21	13:7:340:VAL:HG21	1.52	0.88
10:4:661:ILE:HG21	12:6:392:GLY:CA	2.04	0.88
12:6:706:MET:HG3	12:6:712:PHE:HE2	1.39	0.88
1:A:190:PHE:HD2	5:E:55:GLN:HA	1.38	0.88
8:2:542:LEU:HD23	8:2:682:VAL:HG13	1.54	0.88
9:3:163:ALA:HB3	9:3:164:HIS:HB2	1.54	0.88
9:3:394:GLU:O	9:3:395:ASN:ND2	2.07	0.88
10:4:419:VAL:CA	10:4:463:VAL:HG21	2.02	0.88
5:E:227:LYS:HD3	5:E:230:ILE:HD12	1.56	0.88
11:5:369:ILE:HD11	11:5:593:GLU:HA	1.54	0.87
13:7:660:VAL:HG12	13:7:689:LEU:HD11	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:GLN:H	2:B:52:LEU:HA	1.35	0.87
8:2:481:GLU:HA	8:2:484:PHE:HB3	1.54	0.87
10:4:566:LEU:HD23	10:4:672:LEU:HD21	1.54	0.87
11:5:69:ILE:HD11	11:5:73:GLU:HG2	1.54	0.87
11:5:440:SER:HA	11:5:480:ASP:HB2	1.55	0.87
13:7:193:PRO:HG2	13:7:196:LEU:HB2	1.55	0.87
2:B:11:PHE:HA	4:D:71:ARG:HH12	1.37	0.87
5:E:545:LEU:HA	5:E:548:LEU:HB3	1.55	0.87
8:2:498:ILE:HG21	8:2:509:ARG:HG3	1.53	0.87
9:3:410:ASP:HB2	9:3:551:ASP:HB2	1.57	0.87
9:3:463:VAL:HG22	9:3:495:VAL:HG21	1.55	0.87
10:4:593:GLY:HA3	10:4:633:GLU:HB2	1.56	0.87
10:4:604:TYR:HB2	10:4:617:GLU:HB2	1.56	0.87
12:6:794:ARG:H	12:6:795:ILE:HA	1.38	0.87
5:E:150:ASP:H	5:E:152:LEU:HB3	1.37	0.87
8:2:246:TYR:H	8:2:298:SER:HB2	1.39	0.87
12:6:305:TYR:CE2	12:6:354:LEU:HG	2.09	0.87
13:7:362:GLY:HA2	13:7:363:PHE:HB2	1.54	0.87
8:2:317:LEU:HA	8:2:429:ILE:HG22	1.55	0.87
9:3:257:THR:HA	9:3:275:ASP:HA	1.54	0.87
10:4:291:TYR:HB2	10:4:296:ILE:HG12	1.56	0.87
10:4:557:ARG:HH22	10:4:652:GLN:HB3	1.40	0.87
11:5:181:ILE:HG22	11:5:241:TYR:HB3	1.54	0.87
2:B:185:ILE:HA	2:B:188:ILE:HD12	1.57	0.87
9:3:104:ARG:HG2	9:3:108:ARG:HH21	1.39	0.87
10:4:456:LEU:HD12	13:7:254:ALA:HB2	1.54	0.87
13:7:668:ARG:HH22	13:7:685:THR:HA	1.39	0.87
8:2:301:PRO:HB3	8:2:303:ILE:HG12	1.57	0.87
9:3:437:SER:HB3	9:3:438:SER:CA	2.03	0.87
13:7:435:LEU:HD13	13:7:454:ILE:HB	1.53	0.87
6:F:21:DT:H5 ⁷	11:5:506:LYS:HD3	1.57	0.86
12:6:767:LYS:HZ1	12:6:820:THR:HA	1.39	0.86
13:7:208:SER:N	13:7:209:GLN:HB2	1.89	0.86
8:2:684:ARG:HB3	8:2:685:ASP:HA	1.55	0.86
11:5:491:VAL:HA	11:5:494:HIS:HD2	1.40	0.86
12:6:537:VAL:HG22	12:6:583:GLN:HB3	1.57	0.86
12:6:653:HIS:HB2	12:6:705:ILE:HG22	1.57	0.86
9:3:98:ILE:HG13	9:3:155:LEU:HD22	1.57	0.86
12:6:806:LEU:HD11	12:6:831:LEU:HD21	1.57	0.86
8:2:430:TYR:HA	8:2:451:ILE:HG12	1.56	0.86
8:2:631:ILE:N	11:5:445:SER:O	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:320:GLY:H	11:5:323:ILE:HB	1.38	0.86
4:D:256:TYR:HD1	4:D:257:THR:HG23	1.40	0.86
5:E:405:ILE:H	5:E:405:ILE:HD12	1.40	0.86
4:D:123:LYS:HG3	4:D:126:LEU:HD13	1.58	0.86
5:E:376:THR:HG22	5:E:378:LEU:H	1.40	0.86
11:5:369:ILE:HG23	11:5:594:ILE:HD11	1.57	0.86
13:7:208:SER:H	13:7:209:GLN:HB2	1.40	0.86
8:2:446:VAL:HG11	12:6:301:ARG:HB3	1.54	0.86
8:2:459:ARG:HA	8:2:460:GLU:CB	2.01	0.86
9:3:98:ILE:HD12	9:3:155:LEU:HD13	1.56	0.86
10:4:281:VAL:HG22	10:4:297:GLU:HG2	1.56	0.86
10:4:607:ARG:HB2	10:4:614:LEU:HD23	1.57	0.86
8:2:635:GLY:HA3	11:5:465:GLU:HG2	1.55	0.86
10:4:683:ASN:HD21	10:4:686:LEU:HD22	1.40	0.86
11:5:618:ALA:HB1	11:5:677:VAL:HG21	1.58	0.86
11:5:294:ILE:HG23	11:5:333:ILE:HB	1.58	0.85
11:5:375:ALA:CB	11:5:378:ILE:HB	2.04	0.85
11:5:461:GLU:HG2	11:5:462:PHE:N	1.91	0.85
1:A:29:LEU:HD11	1:A:96:ILE:HG12	1.59	0.85
1:A:147:VAL:H	1:A:148:ASP:HA	1.39	0.85
8:2:582:LYS:NZ	8:2:591:LEU:HD12	1.91	0.85
9:3:203:ALA:HB2	9:3:210:HIS:NE2	1.91	0.85
10:4:713:ASP:HB2	10:4:716:ASN:HB2	1.55	0.85
13:7:118:CYS:SG	13:7:198:ARG:NH2	2.48	0.85
13:7:680:SER:CB	13:7:681:PHE:HA	2.05	0.85
11:5:181:ILE:CG2	11:5:241:TYR:HB3	2.05	0.85
12:6:533:ILE:HG12	12:6:548:LEU:HD11	1.56	0.85
12:6:660:THR:HA	12:6:674:ALA:H	1.41	0.85
8:2:494:ILE:HA	8:2:497:ILE:HD12	1.57	0.85
10:4:752:SER:HA	10:4:755:LYS:HD3	1.59	0.85
11:5:482:PHE:CB	11:5:523:ALA:HB2	2.05	0.85
13:7:139:LEU:O	13:7:142:ILE:N	2.09	0.85
11:5:413:LEU:HD13	11:5:553:ILE:HG13	1.59	0.85
9:3:24:ARG:HH12	9:3:120:TYR:HB3	1.41	0.85
10:4:770:LEU:HD11	10:4:801:MET:HB3	1.59	0.85
3:C:86:ASN:O	9:3:104:ARG:NH1	2.10	0.85
10:4:419:VAL:HA	10:4:463:VAL:CG2	2.05	0.85
11:5:148:LEU:HD11	11:5:274:LEU:HD12	1.59	0.85
12:6:727:LEU:HD22	12:6:731:ILE:HD11	1.59	0.85
12:6:554:GLY:HA2	12:6:808:GLU:HB3	1.58	0.85
13:7:349:VAL:HG21	13:7:381:VAL:HG13	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:393:LEU:HB2	13:7:395:SER:N	1.91	0.85
9:3:191:LEU:HD21	13:7:329:ARG:HH12	1.41	0.84
13:7:537:ILE:HA	13:7:540:VAL:HB	1.59	0.84
13:7:584:ILE:HD13	13:7:591:LEU:HD21	1.56	0.84
8:2:430:TYR:HD1	8:2:451:ILE:HD11	1.40	0.84
8:2:582:LYS:HA	8:2:583:ASP:CB	2.01	0.84
12:6:560:VAL:HB	12:6:561:GLU:CA	2.06	0.84
13:7:208:SER:HA	13:7:222:SER:HB3	1.60	0.84
1:A:145:ASP:HA	1:A:146:LEU:HB3	1.60	0.84
8:2:785:LYS:HG3	8:2:788:ARG:HH21	1.42	0.84
11:5:39:ARG:HA	11:5:44:PHE:HB3	1.59	0.84
5:E:30:PHE:HE2	5:E:81:LEU:HD11	1.41	0.84
5:E:244:GLY:HA3	5:E:602:LEU:HB3	1.60	0.84
8:2:544:ASP:HB2	8:2:683:VAL:HG23	1.58	0.84
13:7:393:LEU:HA	13:7:394:THR:HB	1.57	0.84
4:D:98:ILE:HG21	4:D:129:MET:HG2	1.58	0.84
5:E:85:GLY:N	5:E:123:LEU:O	2.11	0.84
5:E:413:LEU:HG	5:E:416:ARG:HB2	1.60	0.84
10:4:585:THR:HG21	10:4:628:VAL:H	1.42	0.84
12:6:356:TRP:HZ3	12:6:358:LYS:HB2	1.40	0.84
13:7:367:LYS:HA	13:7:368:ALA:HB3	1.57	0.84
13:7:540:VAL:HG12	13:7:563:ILE:HD11	1.59	0.84
1:A:100:MET:HG3	1:A:104:ASN:ND2	1.93	0.84
1:A:173:GLU:HA	1:A:183:LEU:HD23	1.60	0.84
5:E:36:ILE:HA	5:E:39:LEU:HG	1.59	0.84
5:E:344:VAL:HG13	5:E:348:LEU:HD12	1.60	0.84
5:E:561:ASP:HB3	5:E:562:LYS:HG2	1.59	0.84
9:3:158:LYS:HA	9:3:327:TYR:CE2	2.13	0.84
11:5:69:ILE:HD12	11:5:73:GLU:HA	1.56	0.84
12:6:614:ARG:CG	12:6:615:ASP:HA	2.08	0.84
13:7:271:GLN:HE22	13:7:280:PRO:HA	1.42	0.84
10:4:306:TYR:HB3	10:4:465:HIS:CD2	2.13	0.84
13:7:493:LEU:HA	13:7:512:ALA:HB3	1.59	0.84
4:D:200:LYS:HB2	4:D:201:TYR:CB	2.08	0.83
4:D:269:LEU:HD13	4:D:275:TYR:HD2	1.43	0.83
5:E:120:ILE:HB	5:E:139:ILE:HB	1.60	0.83
10:4:626:GLY:N	10:4:669:SER:HB3	1.94	0.83
12:6:585:LEU:HD22	12:6:637:CYS:HB2	1.60	0.83
10:4:521:LEU:HD11	10:4:741:VAL:HB	1.60	0.83
12:6:763:PRO:HB3	12:6:817:ASP:HA	1.60	0.83
1:A:78:CYS:HA	1:A:81:ARG:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:624:MET:HG2	8:2:646:ILE:HD12	1.60	0.83
9:3:367:LEU:HD21	9:3:382:LEU:HD11	1.59	0.83
12:6:558:SER:CB	12:6:559:THR:HA	1.99	0.83
4:D:216:VAL:CG2	4:D:219:ILE:HG13	2.08	0.83
8:2:459:ARG:CA	8:2:460:GLU:HB2	2.04	0.83
11:5:148:LEU:HG	11:5:272:ARG:HD2	1.58	0.83
4:D:200:LYS:CB	4:D:201:TYR:HB2	2.08	0.83
8:2:539:VAL:HB	8:2:647:ILE:HA	1.59	0.83
8:2:797:SER:HB2	8:2:845:PHE:CE2	2.13	0.83
9:3:95:ARG:HB2	9:3:154:LYS:HB2	1.59	0.83
11:5:165:ILE:HD12	11:5:261:ILE:HA	1.60	0.83
13:7:584:ILE:HG22	13:7:586:LEU:H	1.43	0.83
1:A:173:GLU:HB3	1:A:183:LEU:H	1.42	0.83
8:2:603:VAL:HG22	8:2:645:SER:HB2	1.61	0.83
9:3:292:VAL:HG22	9:3:328:PRO:HA	1.60	0.83
1:A:165:VAL:HG11	1:A:205:LEU:HB3	1.61	0.83
2:B:120:LEU:HD12	2:B:176:LEU:HB3	1.59	0.83
10:4:327:ASN:HA	10:4:436:THR:HG22	1.58	0.83
11:5:453:VAL:HG21	11:5:506:LYS:HB2	1.60	0.83
12:6:396:LYS:HB3	12:6:460:ILE:HG22	1.59	0.83
12:6:793:TYR:O	12:6:794:ARG:NH1	2.11	0.83
1:A:110:MET:N	1:A:111:SER:HA	1.92	0.83
2:B:170:LEU:HB2	4:D:274:ILE:CG1	2.06	0.83
9:3:367:LEU:HD12	9:3:378:LYS:HB3	1.61	0.83
11:5:482:PHE:HB3	11:5:523:ALA:CB	2.08	0.83
12:6:362:GLN:HA	12:6:376:THR:HG22	1.60	0.83
3:C:18:CYS:CB	3:C:74:LEU:HA	2.09	0.83
3:C:55:ALA:HB1	3:C:70:PRO:HB2	1.61	0.83
4:D:216:VAL:HG13	4:D:217:ASN:CA	2.03	0.83
10:4:249:LEU:HD12	10:4:250:ALA:HA	1.61	0.83
10:4:633:GLU:HB3	10:4:636:LYS:HB3	1.60	0.83
13:7:446:ASP:N	13:7:447:GLY:HA2	1.92	0.83
13:7:523:ILE:HB	13:7:565:ALA:HB2	1.61	0.83
12:6:640:GLU:HB3	12:6:643:LYS:HG2	1.60	0.82
2:B:113:SER:O	2:B:172:ASN:ND2	2.12	0.82
10:4:395:GLN:HB2	10:4:424:VAL:HG13	1.58	0.82
12:6:517:LYS:HA	12:6:520:VAL:HG22	1.59	0.82
12:6:532:SER:HA	12:6:744:PRO:HB2	1.60	0.82
12:6:640:GLU:HA	12:6:682:ALA:HA	1.61	0.82
4:D:286:LEU:HD21	4:D:293:LEU:HD21	1.60	0.82
8:2:621:HIS:HD2	8:2:673:ILE:HA	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:445:ALA:HA	9:3:457:LEU:CD2	2.09	0.82
11:5:568:ILE:HD12	11:5:571:HIS:HB3	1.59	0.82
12:6:297:THR:HA	12:6:359:VAL:HG12	1.60	0.82
8:2:542:LEU:N	8:2:681:CYS:O	2.12	0.82
13:7:444:VAL:HG21	13:7:448:MET:HG2	1.61	0.82
1:A:97:LEU:HD13	1:A:123:LEU:HD11	1.61	0.82
8:2:428:GLY:HA2	8:2:453:ALA:HA	1.60	0.82
8:2:795:ARG:HA	8:2:798:ILE:HD12	1.60	0.82
1:A:18:GLN:HA	1:A:21:ALA:HB2	1.62	0.82
5:E:285:ALA:HB1	5:E:288:TYR:HB3	1.58	0.82
8:2:560:ALA:HB3	8:2:563:ALA:HB2	1.59	0.82
9:3:695:SER:HB3	9:3:696:PRO:HA	1.62	0.82
13:7:238:LEU:HB2	13:7:354:ILE:HG22	1.60	0.82
1:A:27:VAL:HG13	1:A:28:ASN:H	1.44	0.82
2:B:7:LEU:HD23	2:B:10:THR:HG23	1.60	0.82
4:D:203:PRO:HG2	4:D:206:LEU:HD12	1.60	0.82
10:4:304:ARG:HH22	10:4:422:GLU:HB2	1.45	0.82
13:7:648:LYS:HE2	13:7:704:LEU:HB3	1.61	0.82
4:D:250:GLU:HG3	4:D:256:TYR:HD2	1.44	0.82
8:2:573:ALA:HB1	12:6:669:HIS:HA	1.60	0.82
12:6:703:ALA:O	12:6:707:SER:N	2.12	0.82
2:B:71:VAL:HB	2:B:75:ILE:HD11	1.61	0.82
9:3:530:HIS:HA	9:3:533:ILE:HD12	1.62	0.82
4:D:220:ASP:HA	4:D:222:PRO:HD2	1.62	0.82
8:2:302:THR:HG21	8:2:319:ARG:H	1.45	0.82
10:4:306:TYR:HB3	10:4:465:HIS:HD2	1.42	0.82
8:2:574:VAL:HG12	12:6:664:ALA:HB3	1.62	0.81
8:2:670:THR:HG23	8:2:673:ILE:H	1.42	0.81
12:6:118:PHE:HE1	12:6:161:ARG:HB3	1.43	0.81
11:5:374:ILE:HB	11:5:385:LYS:HE2	1.60	0.81
12:6:115:PHE:HA	12:6:118:PHE:HB3	1.62	0.81
12:6:118:PHE:CZ	12:6:158:LEU:HA	2.15	0.81
1:A:117:GLN:HE22	1:A:131:LEU:HD21	1.45	0.81
2:B:140:GLU:O	2:B:144:LYS:HG2	1.80	0.81
4:D:232:VAL:HG12	4:D:271:ILE:HG22	1.62	0.81
4:D:259:THR:HG21	4:D:268:GLU:HA	1.63	0.81
8:2:382:TYR:HB2	11:5:153:SER:HB2	1.63	0.81
10:4:204:LYS:HA	10:4:207:LYS:HD3	1.60	0.81
11:5:45:ILE:HG13	11:5:46:TYR:H	1.45	0.81
11:5:361:SER:HA	11:5:366:LEU:HD22	1.62	0.81
12:6:706:MET:HA	12:6:712:PHE:CZ	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:143:LEU:HD11	13:7:197:THR:HG22	1.62	0.81
13:7:442:LYS:HB3	13:7:450:ILE:HG12	1.60	0.81
4:D:77:LEU:HB3	4:D:78:PRO:HD2	1.63	0.81
4:D:123:LYS:HE3	5:E:20:SER:HB3	1.61	0.81
8:2:667:VAL:HG22	8:2:669:LEU:H	1.46	0.81
10:4:348:LYS:O	10:4:383:SER:N	2.14	0.81
11:5:33:ASN:O	11:5:37:GLU:N	2.13	0.81
11:5:91:GLU:HG3	11:5:137:LEU:HD23	1.60	0.81
5:E:624:ASN:HB3	5:E:629:ILE:HG23	1.63	0.81
8:2:803:PHE:HB2	8:2:805:ILE:N	1.96	0.81
10:4:202:LYS:H	10:4:224:LEU:HB3	1.44	0.81
10:4:605:ILE:HA	10:4:616:LEU:HA	1.61	0.81
12:6:118:PHE:HZ	12:6:158:LEU:HA	1.44	0.81
10:4:200:SER:HA	10:4:224:LEU:HD22	1.63	0.81
10:4:589:VAL:HG21	10:4:624:SER:CA	2.08	0.81
12:6:796:THR:HB	12:6:799:GLN:HG2	1.63	0.81
13:7:226:SER:HB3	13:7:229:GLN:HG2	1.62	0.81
2:B:25:ILE:N	2:B:71:VAL:O	2.14	0.81
8:2:229:ALA:HA	8:2:232:ARG:HG2	1.62	0.81
9:3:455:ARG:HH22	9:3:500:ALA:HB3	1.44	0.81
10:4:631:ILE:HB	10:4:673:ALA:HA	1.61	0.81
13:7:236:GLY:N	13:7:355:PHE:O	2.13	0.81
4:D:176:SER:HB3	4:D:179:GLU:HG3	1.62	0.81
8:2:539:VAL:N	8:2:646:ILE:O	2.11	0.81
10:4:243:LEU:HD13	10:4:305:PRO:HB3	1.59	0.81
12:6:765:LEU:HD22	12:6:770:ARG:HB3	1.63	0.81
12:6:796:THR:HG22	12:6:798:ARG:H	1.43	0.81
1:A:168:LEU:HD11	1:A:206:GLN:CB	2.11	0.81
1:A:169:LYS:N	1:A:185:LYS:HD3	1.95	0.81
3:C:135:LEU:HA	3:C:138:HIS:HD2	1.46	0.81
8:2:671:GLU:O	8:2:675:SER:N	2.14	0.81
9:3:518:PRO:HB3	9:3:524:ASP:HB2	1.61	0.81
1:A:41:LEU:HD13	4:D:201:TYR:CE2	2.15	0.81
2:B:198:ALA:HB1	3:C:113:MET:SD	2.21	0.81
8:2:601:LYS:O	8:2:771:ARG:NH2	2.11	0.81
9:3:163:ALA:H	9:3:164:HIS:HB2	1.45	0.81
5:E:522:LEU:HD11	5:E:527:LEU:HD13	1.63	0.80
5:E:537:ASP:HA	5:E:540:ARG:HG3	1.63	0.80
13:7:89:GLN:HE22	13:7:103:VAL:HG23	1.47	0.80
13:7:236:GLY:HA2	13:7:356:LEU:CD2	2.12	0.80
1:A:57:GLN:HG2	1:A:62:MET:HG2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:551:TRP:HE3	5:E:552:LEU:HD12	1.47	0.80
12:6:399:GLY:HA2	12:6:454:PHE:CZ	2.16	0.80
4:D:189:ILE:HD12	4:D:192:LYS:HB2	1.62	0.80
4:D:232:VAL:HB	4:D:271:ILE:HA	1.63	0.80
8:2:536:ASP:HB3	8:2:645:SER:HA	1.63	0.80
9:3:201:HIS:O	9:3:210:HIS:N	2.14	0.80
13:7:238:LEU:HA	13:7:354:ILE:HA	1.63	0.80
13:7:358:ALA:HB2	13:7:375:TYR:HE2	1.46	0.80
13:7:517:ASP:HB2	13:7:560:ARG:H	1.46	0.80
5:E:572:ILE:HD13	5:E:579:TYR:H	1.47	0.80
1:A:199:LEU:HB2	1:A:205:LEU:HD11	1.63	0.80
5:E:81:LEU:HB3	5:E:120:ILE:HG13	1.63	0.80
5:E:436:ASN:HD22	5:E:472:ARG:HD2	1.44	0.80
11:5:449:LEU:CD2	11:5:493:ILE:HD11	2.11	0.80
12:6:773:LEU:HD21	12:6:800:LEU:HD11	1.64	0.80
13:7:94:LEU:HB2	13:7:95:GLN:CB	2.08	0.80
13:7:248:VAL:HG11	13:7:345:PRO:HD3	1.62	0.80
13:7:490:GLY:HA2	13:7:493:LEU:HG	1.62	0.80
5:E:557:ALA:HA	5:E:560:GLU:HG2	1.62	0.80
8:2:794:ARG:HG2	8:2:798:ILE:CD1	2.11	0.80
10:4:344:VAL:HA	10:4:359:GLU:HA	1.63	0.80
11:5:301:TYR:CE2	11:5:327:TYR:HB3	2.17	0.80
12:6:135:VAL:HG22	12:6:138:ALA:HB3	1.64	0.80
5:E:431:LEU:HD13	5:E:480:SER:HA	1.63	0.80
5:E:434:VAL:HG22	5:E:435:GLY:H	1.45	0.80
8:2:315:SER:N	8:2:430:TYR:O	2.14	0.80
8:2:409:ILE:HD11	8:2:450:ILE:HG22	1.62	0.80
9:3:98:ILE:O	9:3:157:PHE:HA	1.81	0.80
12:6:775:GLU:HA	12:6:778:LYS:HB3	1.64	0.80
4:D:214:GLY:CA	4:D:216:VAL:HA	2.11	0.80
8:2:778:LEU:HD13	8:2:783:MET:HG3	1.62	0.80
10:4:243:LEU:HD21	10:4:245:ALA:HB2	1.64	0.80
10:4:600:GLY:HA2	10:4:604:TYR:HE1	1.47	0.80
11:5:209:ARG:HA	11:5:239:ASP:HA	1.64	0.80
12:6:355:ASP:OD2	12:6:383:GLY:N	2.15	0.80
12:6:550:GLN:HG2	12:6:569:ILE:HG23	1.62	0.80
8:2:335:LYS:HD2	8:2:383:ARG:NH1	1.96	0.80
12:6:359:VAL:HG23	12:6:379:VAL:HG13	1.62	0.80
12:6:574:VAL:HA	12:6:581:LYS:HZ1	1.46	0.80
13:7:61:PRO:HG2	13:7:64:MET:HG3	1.62	0.80
5:E:579:TYR:HB2	5:E:632:ILE:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:343:LEU:HD23	13:7:383:GLN:HE21	1.47	0.80
8:2:798:ILE:CD1	11:5:560:HIS:HB2	2.11	0.79
9:3:199:SER:HB3	9:3:212:ARG:HB3	1.64	0.79
9:3:214:TYR:CE1	9:3:229:ALA:HB3	2.15	0.79
10:4:603:ALA:HB3	10:4:658:LYS:HE2	1.64	0.79
11:5:677:VAL:HG12	11:5:681:ILE:HD11	1.64	0.79
1:A:37:ILE:HA	1:A:40:ILE:HD12	1.63	0.79
2:B:17:GLN:HA	2:B:20:VAL:HG12	1.65	0.79
5:E:637:LEU:HA	5:E:640:PHE:HB3	1.63	0.79
8:2:501:MET:CE	8:2:516:ALA:HB2	2.12	0.79
9:3:186:VAL:O	9:3:289:GLY:N	2.14	0.79
11:5:170:SER:HB3	11:5:255:PHE:HB2	1.62	0.79
12:6:162:GLU:HG2	12:6:166:LEU:HB2	1.64	0.79
8:2:704:VAL:HG13	12:6:766:THR:HG23	1.64	0.79
11:5:320:GLY:HA2	11:5:323:ILE:H	1.45	0.79
1:A:7:ASN:HA	1:A:10:VAL:CG1	2.12	0.79
10:4:543:GLN:HG3	10:4:562:ILE:HG13	1.64	0.79
10:4:661:ILE:CG2	12:6:392:GLY:HA3	2.09	0.79
11:5:389:VAL:HA	11:5:392:LEU:HG	1.64	0.79
11:5:608:LEU:HD11	11:5:609:LYS:HZ2	1.48	0.79
8:2:264:PRO:HG3	8:2:317:LEU:CB	2.12	0.79
8:2:309:LEU:O	8:2:310:ARG:NH1	2.12	0.79
9:3:176:LEU:HG	9:3:298:PHE:HD2	1.47	0.79
12:6:359:VAL:HG22	12:6:381:LEU:HD21	1.65	0.79
9:3:447:THR:HB	9:3:448:THR:HA	1.64	0.79
10:4:621:LEU:HA	10:4:624:SER:HB2	1.64	0.79
2:B:140:GLU:HG3	2:B:141:LEU:HD12	1.64	0.79
5:E:604:ASN:HB2	5:E:650:LEU:HD23	1.64	0.79
8:2:541:LEU:HA	8:2:681:CYS:HB2	1.63	0.79
10:4:655:SER:HA	10:4:664:THR:HA	1.65	0.79
11:5:86:ILE:HA	11:5:89:LEU:HG	1.63	0.79
11:5:481:GLU:HB3	11:5:484:LYS:HB2	1.63	0.79
12:6:174:TYR:CE2	12:6:178:LEU:HD11	2.18	0.79
5:E:308:ASN:HB3	5:E:310:VAL:HG23	1.64	0.79
5:E:605:PHE:O	5:E:609:PHE:N	2.15	0.79
13:7:546:ILE:HD12	13:7:557:LEU:HD11	1.64	0.79
3:C:46:LEU:HB3	3:C:50:LEU:HD11	1.65	0.79
8:2:684:ARG:HB3	8:2:685:ASP:CA	2.12	0.79
4:D:266:GLU:HB3	4:D:268:GLU:HG3	1.64	0.79
5:E:75:ASP:HB3	5:E:118:ARG:HH12	1.45	0.79
5:E:348:LEU:HD21	5:E:401:LEU:HD21	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:638:THR:O	11:5:445:SER:N	2.15	0.79
9:3:201:HIS:HB2	9:3:210:HIS:CB	2.13	0.79
10:4:794:THR:CG2	10:4:797:GLN:HG2	2.13	0.79
5:E:98:ILE:N	5:E:99:ASP:HB3	1.98	0.78
9:3:225:ILE:HD12	9:3:225:ILE:H	1.47	0.78
10:4:547:GLY:HA3	10:4:560:GLY:HA2	1.64	0.78
11:5:300:ILE:HG22	11:5:324:ARG:HB2	1.65	0.78
2:B:155:LYS:HA	2:B:158:LYS:HG2	1.64	0.78
4:D:199:LEU:HD22	4:D:202:MET:HE2	1.66	0.78
9:3:445:ALA:CB	9:3:499:LYS:HD2	2.13	0.78
9:3:486:ILE:HA	9:3:489:VAL:CB	2.13	0.78
10:4:623:LEU:HD22	12:6:370:THR:HB	1.65	0.78
13:7:462:PRO:O	13:7:464:VAL:HG23	1.82	0.78
13:7:689:LEU:HA	13:7:692:ILE:HG22	1.64	0.78
2:B:150:GLU:HG3	2:B:154:ILE:HG23	1.64	0.78
13:7:453:ASP:OD2	13:7:562:SER:HA	1.83	0.78
8:2:332:PRO:HG3	11:5:300:ILE:CD1	2.14	0.78
10:4:241:LEU:HD23	10:4:243:LEU:H	1.48	0.78
11:5:152:ASP:HB3	11:5:154:GLU:HG2	1.64	0.78
13:7:208:SER:HB3	13:7:209:GLN:HA	1.63	0.78
10:4:224:LEU:HD11	10:4:227:ILE:HB	1.66	0.78
12:6:183:LYS:HG2	12:6:186:ARG:HH11	1.46	0.78
12:6:537:VAL:HG11	12:6:584:PHE:HE1	1.49	0.78
8:2:330:VAL:HG13	8:2:415:VAL:HG11	1.64	0.78
9:3:368:ALA:HB2	9:3:378:LYS:HE2	1.66	0.78
11:5:503:SER:HB3	11:5:512:VAL:HG22	1.65	0.78
12:6:371:GLY:HA3	13:7:554:ASN:HD21	1.47	0.78
12:6:638:ILE:HG22	12:6:639:ASP:H	1.48	0.78
9:3:339:ARG:N	9:3:340:GLN:HB2	1.99	0.78
9:3:556:ILE:H	9:3:556:ILE:HD12	1.46	0.78
10:4:348:LYS:HB2	10:4:383:SER:HB2	1.65	0.78
11:5:487:ASP:HA	11:5:490:ARG:HB3	1.65	0.78
12:6:151:ILE:HD13	12:6:153:ILE:HG23	1.63	0.78
4:D:267:VAL:HB	4:D:268:GLU:HA	1.66	0.78
8:2:584:PRO:HB2	8:2:585:ILE:HG13	1.64	0.78
12:6:359:VAL:CG2	12:6:381:LEU:HD21	2.14	0.78
12:6:794:ARG:HB2	12:6:795:ILE:C	2.03	0.78
13:7:504:ASP:HB3	13:7:505:GLU:CB	2.11	0.78
4:D:259:THR:HG21	4:D:268:GLU:CA	2.13	0.78
5:E:287:VAL:HG12	5:E:291:LEU:HD21	1.66	0.78
8:2:525:LYS:HZ2	11:5:577:THR:H	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:526:ASN:HA	8:2:532:SER:HA	1.65	0.78
8:2:760:GLN:HA	8:2:763:LEU:HG	1.66	0.78
9:3:259:GLN:HG3	9:3:271:PRO:HB2	1.66	0.78
11:5:50:LEU:HD22	11:5:101:ILE:HD12	1.66	0.78
11:5:294:ILE:CG2	11:5:330:ILE:HG23	2.13	0.78
11:5:420:THR:HG23	11:5:556:VAL:HG21	1.65	0.78
12:6:134:LYS:N	12:6:135:VAL:HA	1.98	0.78
12:6:795:ILE:CG2	12:6:799:GLN:HG3	2.13	0.78
1:A:149:ILE:HD11	4:D:140:ILE:CD1	2.14	0.78
5:E:325:TYR:HD2	5:E:404:ILE:HA	1.47	0.78
5:E:328:LEU:CD1	5:E:500:GLN:HG2	2.13	0.78
10:4:748:THR:HA	10:4:751:ILE:HD12	1.66	0.78
11:5:635:ILE:HA	11:5:638:LEU:HG	1.65	0.78
2:B:94:THR:HB	2:B:97:GLU:HB3	1.66	0.77
3:C:98:HIS:HA	3:C:102:SER:HB2	1.66	0.77
5:E:313:PRO:HA	5:E:415:TYR:CE2	2.19	0.77
5:E:313:PRO:HA	5:E:415:TYR:HE2	1.49	0.77
8:2:325:THR:HG22	8:2:326:ARG:H	1.49	0.77
8:2:567:THR:O	8:2:606:ILE:HG23	1.83	0.77
9:3:234:GLU:N	9:3:241:LEU:HG	1.98	0.77
9:3:374:HIS:HB3	9:3:377:ILE:HD12	1.64	0.77
12:6:355:ASP:HB3	12:6:356:TRP:CA	2.14	0.77
8:2:441:LYS:HA	8:2:442:ASN:HB2	1.66	0.77
10:4:433:ILE:CG2	10:4:435:VAL:HG23	2.13	0.77
11:5:374:ILE:HB	11:5:385:LYS:CE	2.14	0.77
10:4:292:ASP:HA	10:4:293:LEU:HD12	1.66	0.77
10:4:626:GLY:H	10:4:669:SER:HB3	1.48	0.77
5:E:310:VAL:HG13	5:E:311:LYS:HA	1.64	0.77
8:2:705:ARG:HB2	12:6:559:THR:CB	2.14	0.77
9:3:19:ALA:O	9:3:23:ASP:N	2.14	0.77
10:4:308:VAL:HG21	10:4:325:LEU:HB3	1.67	0.77
11:5:32:LYS:HA	11:5:35:ILE:HD12	1.64	0.77
13:7:110:ALA:HA	13:7:113:PHE:HD2	1.49	0.77
13:7:656:VAL:HG12	13:7:710:ILE:HB	1.66	0.77
1:A:159:SER:HB3	1:A:160:ASP:HB2	1.67	0.77
5:E:151:THR:HB	5:E:153:GLY:N	2.00	0.77
5:E:362:MET:O	5:E:366:MET:N	2.16	0.77
12:6:528:LYS:HA	12:6:531:ARG:HG2	1.66	0.77
1:A:185:LYS:HD2	1:A:186:ASP:H	1.49	0.77
2:B:54:THR:HA	4:D:129:MET:SD	2.23	0.77
5:E:12:TYR:O	5:E:15:ILE:HG22	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:621:ARG:HB2	5:E:631:GLU:HB2	1.64	0.77
8:2:219:THR:HB	8:2:223:GLY:HA2	1.65	0.77
8:2:619:SER:HA	8:2:622:GLU:HB3	1.65	0.77
10:4:342:MET:HB3	10:4:360:ILE:CG1	2.14	0.77
11:5:69:ILE:CD1	11:5:73:GLU:HA	2.15	0.77
13:7:587:PRO:HG2	13:7:590:LEU:CB	2.15	0.77
1:A:147:VAL:HG11	1:A:149:ILE:HG13	1.66	0.77
5:E:52:GLN:HB2	5:E:54:VAL:HG23	1.67	0.77
9:3:169:ARG:O	9:3:272:ARG:NH2	2.17	0.77
9:3:486:ILE:CA	9:3:489:VAL:HB	2.14	0.77
10:4:245:ALA:HB3	10:4:306:TYR:O	1.85	0.77
10:4:248:LEU:HB2	10:4:258:TYR:CD1	2.19	0.77
12:6:308:SER:O	12:6:347:ASN:N	2.13	0.77
12:6:732:VAL:HA	12:6:735:HIS:CD2	2.19	0.77
12:6:752:ARG:HA	12:6:755:ILE:HD12	1.66	0.77
12:6:776:LYS:HA	12:6:779:GLU:HG2	1.65	0.77
13:7:262:CYS:SG	13:7:265:CYS:HB2	2.24	0.77
13:7:493:LEU:HB2	13:7:513:LEU:HG	1.67	0.77
5:E:626:GLU:HB3	5:E:629:ILE:HG22	1.66	0.77
8:2:604:CYS:N	8:2:645:SER:O	2.15	0.77
9:3:31:PHE:CD1	9:3:32:LEU:HA	2.20	0.77
9:3:163:ALA:N	9:3:164:HIS:HB2	1.99	0.77
9:3:198:ARG:HB3	9:3:249:THR:HG23	1.66	0.77
12:6:572:CYS:H	12:6:712:PHE:HA	1.48	0.77
13:7:428:VAL:HG13	13:7:598:PHE:HD2	1.50	0.77
13:7:444:VAL:HG23	13:7:446:ASP:H	1.49	0.77
1:A:83:LYS:CE	4:D:206:LEU:HB3	2.14	0.77
4:D:231:HIS:O	4:D:292:ALA:N	2.18	0.77
10:4:397:ILE:HB	10:4:417:LEU:HD11	1.65	0.77
11:5:28:ILE:HG21	11:5:96:GLN:HE22	1.49	0.77
13:7:135:LYS:HA	13:7:136:ASP:HB3	1.67	0.77
2:B:10:THR:HA	2:B:182:ARG:HH11	1.50	0.77
3:C:112:ILE:CD1	3:C:121:ALA:HB2	2.15	0.77
5:E:150:ASP:H	5:E:151:THR:HA	1.50	0.77
5:E:516:LYS:HE2	5:E:518:LEU:HD11	1.67	0.77
8:2:813:ILE:CD1	8:2:841:VAL:HG21	2.13	0.77
9:3:569:HIS:NE2	11:5:657:ILE:HD13	1.98	0.77
11:5:594:ILE:HG22	11:5:596:ILE:H	1.49	0.77
13:7:244:ILE:HG13	13:7:348:ILE:HG12	1.66	0.77
1:A:145:ASP:HB3	1:A:147:VAL:HG23	1.66	0.76
5:E:360:HIS:HA	5:E:363:PHE:CD2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:484:PHE:CZ	8:2:766:TYR:HA	2.20	0.76
8:2:518:SER:HA	8:2:537:ILE:HD13	1.66	0.76
9:3:678:VAL:HG23	9:3:723:LYS:HD2	1.66	0.76
14:3:1001:ATP:C8	11:5:650:ILE:HD11	2.20	0.76
10:4:419:VAL:HG12	10:4:463:VAL:HG11	1.66	0.76
4:D:212:THR:N	4:D:213:GLU:HA	2.00	0.76
9:3:30:GLU:O	9:3:34:THR:N	2.18	0.76
9:3:194:PRO:HA	9:3:252:ASP:HA	1.67	0.76
9:3:292:VAL:HG11	9:3:326:VAL:HG12	1.67	0.76
9:3:406:LEU:HD12	9:3:514:ALA:HB3	1.66	0.76
10:4:324:LYS:O	10:4:438:THR:HA	1.84	0.76
10:4:441:SER:HB3	10:4:459:THR:HG22	1.68	0.76
11:5:276:MET:HB3	11:5:330:ILE:CD1	2.15	0.76
11:5:413:LEU:HA	11:5:521:ALA:O	1.85	0.76
12:6:404:VAL:HG13	12:6:405:PRO:HD2	1.66	0.76
12:6:603:SER:N	12:6:604:SER:HA	2.01	0.76
12:6:765:LEU:CD2	12:6:770:ARG:HB3	2.15	0.76
5:E:493:ASN:HA	5:E:496:ILE:HD12	1.68	0.76
9:3:270:LEU:HD21	11:5:464:LEU:HD22	1.67	0.76
9:3:430:ILE:H	9:3:430:ILE:HD12	1.49	0.76
4:D:137:LYS:HG2	4:D:141:ARG:HH12	1.50	0.76
5:E:137:SER:HA	5:E:140:ILE:CD1	2.14	0.76
8:2:322:GLY:CA	8:2:390:LEU:HD21	2.12	0.76
10:4:356:MET:HB2	10:4:372:GLU:HG3	1.66	0.76
10:4:530:ILE:CG2	10:4:533:LEU:HD11	2.16	0.76
11:5:138:ILE:HG23	11:5:332:GLY:HA3	1.68	0.76
11:5:357:PHE:CE1	11:5:598:LYS:HE2	2.21	0.76
11:5:622:LEU:HD21	11:5:677:VAL:CG1	2.15	0.76
13:7:247:ARG:O	13:7:248:VAL:HG12	1.85	0.76
13:7:311:GLN:CB	13:7:335:VAL:HB	2.13	0.76
8:2:348:LEU:HD13	8:2:365:THR:CB	2.15	0.76
8:2:609:PHE:O	8:2:617:ARG:NH2	2.19	0.76
9:3:181:SER:HA	9:3:295:VAL:HG22	1.67	0.76
10:4:370:ARG:CB	10:4:371:CYS:HB2	2.13	0.76
1:A:149:ILE:HG23	1:A:151:LEU:N	2.01	0.76
2:B:167:HIS:CE1	4:D:267:VAL:HG11	2.20	0.76
4:D:96:GLN:O	4:D:100:ASN:ND2	2.19	0.76
10:4:419:VAL:HG12	10:4:463:VAL:HG21	1.66	0.76
11:5:179:LEU:HD11	11:5:192:ILE:HB	1.68	0.76
12:6:106:VAL:O	12:6:110:LYS:N	2.19	0.76
12:6:522:ASP:HB2	12:6:525:ILE:HG23	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:245:ILE:HD13	13:7:343:LEU:HB3	1.68	0.76
2:B:100:ARG:HA	2:B:103:GLN:HB2	1.68	0.76
3:C:170:GLU:O	3:C:174:LYS:N	2.18	0.76
4:D:123:LYS:CE	5:E:20:SER:HB3	2.14	0.76
10:4:634:PHE:HZ	10:4:698:LEU:HD11	1.50	0.76
11:5:596:ILE:HA	11:5:599:MET:HB3	1.67	0.76
4:D:229:PHE:HA	4:D:276:VAL:HG22	1.68	0.76
8:2:484:PHE:HZ	8:2:766:TYR:HA	1.50	0.76
8:2:658:ASN:ND2	8:2:666:ASN:O	2.19	0.76
9:3:33:ASP:O	9:3:36:THR:HB	1.86	0.76
11:5:244:ILE:O	11:5:248:SER:OG	2.03	0.76
5:E:579:TYR:CE2	5:E:634:ARG:HB3	2.21	0.76
8:2:264:PRO:CG	8:2:317:LEU:HB2	2.15	0.76
8:2:630:SER:HB2	11:5:444:SER:CA	2.16	0.76
10:4:277:LYS:HA	10:4:301:TYR:CD2	2.21	0.76
10:4:729:LEU:HB3	10:4:730:GLU:HA	1.68	0.76
13:7:245:ILE:HD11	13:7:343:LEU:HD22	1.68	0.76
13:7:444:VAL:HG22	13:7:448:MET:H	1.51	0.76
4:D:154:PHE:HE1	4:D:221:GLU:HB2	1.51	0.76
8:2:663:LEU:HG	8:2:666:ASN:HB3	1.68	0.76
9:3:303:ALA:CB	9:3:307:ASN:HB2	2.16	0.76
9:3:443:THR:HG22	9:3:459:ALA:HA	1.68	0.76
12:6:537:VAL:HG11	12:6:584:PHE:CE1	2.22	0.76
12:6:637:CYS:HA	12:6:679:LEU:O	1.85	0.76
2:B:51:GLN:N	2:B:52:LEU:HA	1.99	0.75
3:C:75:LEU:HG	3:C:76:PRO:HD2	1.67	0.75
8:2:843:ASP:HA	8:2:846:VAL:HB	1.64	0.75
10:4:433:ILE:HG21	10:4:435:VAL:HG23	1.68	0.75
10:4:634:PHE:HA	10:4:637:MET:HG2	1.68	0.75
1:A:47:LEU:HD22	1:A:79:MET:SD	2.26	0.75
5:E:49:PHE:HB3	5:E:54:VAL:HB	1.66	0.75
8:2:244:VAL:H	8:2:297:ILE:HA	1.49	0.75
9:3:678:VAL:CG2	9:3:723:LYS:HD2	2.16	0.75
4:D:78:PRO:HA	4:D:174:LEU:HD12	1.67	0.75
10:4:195:ARG:O	10:4:199:MET:N	2.18	0.75
10:4:236:LEU:HB3	10:4:238:THR:HG23	1.67	0.75
10:4:592:SER:HA	10:4:632:ASP:CB	2.16	0.75
11:5:605:TYR:O	11:5:609:LYS:HG2	1.87	0.75
12:6:614:ARG:HG2	12:6:615:ASP:HA	1.67	0.75
13:7:254:ALA:N	13:7:308:SER:O	2.18	0.75
13:7:434:LEU:O	13:7:438:GLY:N	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:227:PHE:HD1	4:D:277:MET:HA	1.50	0.75
8:2:299:ASP:HA	8:2:319:ARG:CZ	2.17	0.75
8:2:574:VAL:HG12	12:6:664:ALA:CB	2.15	0.75
9:3:389:VAL:HG23	9:3:714:LYS:HE3	1.67	0.75
10:4:230:LEU:HD22	10:4:283:LEU:HD22	1.69	0.75
10:4:354:HIS:CD2	10:4:356:MET:HG2	2.20	0.75
10:4:822:VAL:HA	10:4:825:ALA:HB3	1.67	0.75
1:A:130:TYR:CD1	4:D:193:LEU:HB2	2.22	0.75
3:C:16:PHE:CE2	3:C:48:LEU:HB2	2.22	0.75
4:D:220:ASP:HB3	4:D:221:GLU:CG	2.16	0.75
5:E:315:THR:N	5:E:316:LEU:HB3	2.01	0.75
5:E:344:VAL:HG12	5:E:350:LEU:HD21	1.69	0.75
5:E:493:ASN:HA	5:E:496:ILE:HB	1.67	0.75
8:2:429:ILE:HD12	8:2:431:LYS:HE2	1.67	0.75
8:2:603:VAL:HG13	8:2:645:SER:HB2	1.68	0.75
11:5:276:MET:CB	11:5:330:ILE:HD11	2.16	0.75
12:6:554:GLY:HA3	12:6:808:GLU:OE1	1.87	0.75
12:6:645:ASP:O	12:6:649:GLN:HG2	1.87	0.75
12:6:691:ARG:HH11	12:6:716:LEU:HD22	1.51	0.75
12:6:803:MET:HA	12:6:806:LEU:HD12	1.67	0.75
13:7:244:ILE:HD11	13:7:318:LEU:HA	1.67	0.75
13:7:543:GLN:HG3	13:7:544:GLN:N	2.02	0.75
1:A:41:LEU:HA	1:A:44:VAL:HG12	1.69	0.75
4:D:67:TRP:HD1	4:D:143:TYR:HB2	1.51	0.75
8:2:437:ASN:HA	8:2:438:LEU:C	2.07	0.75
9:3:163:ALA:CB	9:3:164:HIS:HB2	2.15	0.75
11:5:373:SER:HB3	11:5:594:ILE:HD13	1.69	0.75
12:6:551:MET:HE1	12:6:591:PHE:HE2	1.49	0.75
12:6:655:ALA:HB2	12:6:661:ILE:HD11	1.69	0.75
1:A:51:THR:O	1:A:55:LYS:N	2.20	0.75
8:2:570:GLY:N	8:2:571:ALA:HA	2.00	0.75
9:3:665:GLU:HG2	9:3:666:ARG:HG3	1.69	0.75
11:5:29:LYS:HA	11:5:32:LYS:HB3	1.69	0.75
11:5:412:VAL:HA	11:5:552:MET:O	1.87	0.75
5:E:536:LEU:HD12	5:E:571:SER:HB2	1.68	0.75
8:2:508:HIS:HB2	8:2:511:ILE:CG2	2.16	0.75
11:5:338:GLU:N	11:5:339:THR:HA	2.02	0.75
13:7:587:PRO:HG2	13:7:590:LEU:HB2	1.68	0.75
5:E:605:PHE:HA	5:E:608:ALA:HB3	1.67	0.75
8:2:479:GLU:HA	8:2:482:ARG:CD	2.17	0.75
10:4:202:LYS:H	10:4:224:LEU:CB	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:243:LEU:HD22	10:4:305:PRO:HA	1.69	0.75
11:5:369:ILE:HG12	11:5:594:ILE:HD12	1.68	0.75
12:6:685:VAL:CG2	12:6:700:ASN:HB2	2.16	0.75
1:A:18:GLN:HA	1:A:21:ALA:CB	2.17	0.74
2:B:7:LEU:N	2:B:8:GLN:HA	2.02	0.74
5:E:345:ASN:HA	5:E:350:LEU:CG	2.16	0.74
9:3:172:THR:CB	9:3:173:ALA:HA	2.10	0.74
10:4:315:ARG:HG2	10:4:410:GLN:HG2	1.69	0.74
11:5:634:LEU:HD12	11:5:637:GLU:HB2	1.68	0.74
4:D:78:PRO:HA	4:D:174:LEU:HA	1.67	0.74
4:D:200:LYS:HB2	4:D:201:TYR:CG	2.21	0.74
4:D:256:TYR:CD1	4:D:257:THR:HG23	2.22	0.74
9:3:564:HIS:HA	9:3:567:ARG:HG2	1.69	0.74
11:5:237:GLY:HA2	11:5:240:PRO:HD3	1.70	0.74
5:E:29:ILE:HD11	5:E:58:ILE:HA	1.68	0.74
9:3:113:GLY:O	9:3:117:GLU:N	2.21	0.74
9:3:163:ALA:HB3	9:3:164:HIS:CB	2.16	0.74
12:6:781:ARG:NE	12:6:795:ILE:O	2.19	0.74
3:C:24:ILE:HD11	3:C:38:ILE:HD12	1.68	0.74
5:E:543:LEU:HA	5:E:546:LEU:HB3	1.68	0.74
10:4:343:LYS:HB2	10:4:390:SER:HB2	1.69	0.74
10:4:758:ILE:CD1	10:4:813:LEU:HA	2.18	0.74
11:5:28:ILE:HG23	11:5:93:ALA:HB2	1.69	0.74
13:7:586:LEU:HB2	13:7:591:LEU:HD11	1.68	0.74
13:7:628:LEU:N	13:7:629:ASP:HA	2.02	0.74
9:3:368:ALA:CB	9:3:371:ILE:HB	2.15	0.74
11:5:633:LEU:HD12	11:5:648:ILE:HD11	1.69	0.74
12:6:158:LEU:CD1	12:6:170:ILE:HD11	2.17	0.74
12:6:662:SER:CB	12:6:671:THR:HG22	2.17	0.74
13:7:353:GLY:HA2	13:7:379:GLN:CG	2.17	0.74
13:7:606:ARG:O	13:7:610:GLU:HG2	1.86	0.74
2:B:141:LEU:O	2:B:145:ILE:N	2.15	0.74
3:C:47:PRO:HD2	3:C:50:LEU:HD21	1.68	0.74
8:2:562:ARG:CG	8:2:599:ALA:HB1	2.18	0.74
10:4:712:VAL:HG22	13:7:672:LYS:NZ	2.03	0.74
11:5:279:ASP:H	11:5:282:LEU:HD12	1.50	0.74
3:C:109:ILE:HA	3:C:112:ILE:HG22	1.70	0.74
5:E:316:LEU:HD11	5:E:414:GLY:CA	2.16	0.74
8:2:319:ARG:HE	8:2:427:THR:HG22	1.53	0.74
8:2:404:ARG:CZ	12:6:299:GLU:HA	2.17	0.74
8:2:785:LYS:HG2	8:2:789:VAL:HG23	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:168:PRO:HG2	9:3:260:GLU:HB3	1.69	0.74
10:4:223:GLU:HB3	10:4:228:LYS:HE3	1.69	0.74
10:4:649:MET:HB3	10:4:701:ARG:HD3	1.69	0.74
4:D:141:ARG:HA	4:D:144:ILE:HG12	1.70	0.74
9:3:169:ARG:HB2	9:3:260:GLU:HG3	1.68	0.74
9:3:524:ASP:OD1	9:3:532:ASN:ND2	2.20	0.74
10:4:342:MET:HE2	12:6:448:LEU:HD13	1.70	0.74
8:2:659:SER:HA	10:4:928:ARG:NE	2.03	0.74
9:3:367:LEU:CD2	9:3:382:LEU:HD11	2.17	0.74
11:5:607:ARG:HA	11:5:665:LYS:HE3	1.70	0.74
12:6:290:ILE:HD13	12:6:454:PHE:CZ	2.23	0.74
5:E:335:TYR:HB2	5:E:373:ALA:HB1	1.70	0.74
5:E:381:ASP:H	5:E:384:ILE:HD12	1.50	0.74
9:3:110:PHE:HA	9:3:121:PHE:CE2	2.23	0.74
9:3:295:VAL:O	9:3:324:ASN:N	2.21	0.74
10:4:695:PRO:HD2	10:4:698:LEU:HD23	1.69	0.74
11:5:264:LEU:HB2	11:5:265:VAL:CG2	2.17	0.74
12:6:111:VAL:HA	12:6:114:ALA:HB3	1.70	0.74
13:7:311:GLN:N	13:7:335:VAL:O	2.20	0.74
5:E:30:PHE:CE2	5:E:81:LEU:HD11	2.22	0.73
9:3:374:HIS:HB2	9:3:378:LYS:NZ	2.03	0.73
10:4:313:GLY:HA2	10:4:403:PRO:HB3	1.69	0.73
10:4:565:LEU:HD21	10:4:675:ALA:CB	2.17	0.73
10:4:763:THR:O	10:4:767:LYS:NZ	2.20	0.73
11:5:175:ARG:HB2	11:5:251:ILE:HG13	1.69	0.73
11:5:505:ALA:HA	11:5:510:THR:HG22	1.68	0.73
13:7:523:ILE:HB	13:7:565:ALA:CB	2.17	0.73
5:E:21:SER:HB2	5:E:24:SER:HA	1.70	0.73
5:E:311:LYS:N	5:E:312:THR:HA	2.03	0.73
8:2:795:ARG:HD2	11:5:562:GLU:HG2	1.70	0.73
9:3:439:GLY:HA3	9:3:442:LEU:HB2	1.70	0.73
10:4:233:MET:CE	10:4:239:SER:HA	2.18	0.73
10:4:397:ILE:O	10:4:417:LEU:HG	1.89	0.73
11:5:441:GLY:HA3	11:5:443:GLY:N	2.01	0.73
11:5:673:GLN:HB2	11:5:676:HIS:CB	2.18	0.73
13:7:362:GLY:CA	13:7:363:PHE:HB2	2.18	0.73
5:E:256:TYR:O	5:E:260:SER:N	2.18	0.73
5:E:285:ALA:HB3	5:E:286:GLN:HA	1.70	0.73
5:E:344:VAL:HG12	5:E:350:LEU:HD11	1.69	0.73
8:2:798:ILE:HG21	11:5:560:HIS:CD2	2.24	0.73
10:4:315:ARG:HH22	13:7:251:VAL:H	1.33	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:678:ILE:HD11	10:4:693:ASP:HB2	1.70	0.73
13:7:236:GLY:HA2	13:7:356:LEU:HD23	1.70	0.73
13:7:518:ASN:HB2	13:7:560:ARG:HE	1.52	0.73
1:A:2:TYR:CE2	1:A:78:CYS:HB2	2.23	0.73
2:B:28:PHE:HE1	2:B:68:SER:HB2	1.50	0.73
5:E:34:LEU:HD11	5:E:543:LEU:CD1	2.14	0.73
8:2:388:VAL:O	8:2:408:VAL:N	2.20	0.73
9:3:201:HIS:NE2	9:3:232:PRO:HG2	2.04	0.73
10:4:332:VAL:CB	10:4:429:ALA:HA	2.17	0.73
12:6:568:ASP:OD1	12:6:677:SER:HA	1.88	0.73
1:A:104:ASN:O	1:A:106:GLY:HA3	1.88	0.73
2:B:150:GLU:HA	2:B:153:GLN:HB3	1.69	0.73
3:C:81:SER:HB2	3:C:84:VAL:HG23	1.69	0.73
5:E:45:LEU:HD11	5:E:49:PHE:CZ	2.23	0.73
5:E:159:TYR:O	5:E:163:LEU:N	2.18	0.73
5:E:289:ASN:HA	5:E:292:TYR:CE2	2.23	0.73
5:E:634:ARG:HA	5:E:637:LEU:HG	1.69	0.73
11:5:161:ARG:HA	11:5:295:VAL:HG22	1.69	0.73
13:7:470:LEU:HD21	13:7:564:LEU:HD22	1.71	0.73
1:A:53:TYR:O	1:A:57:GLN:N	2.21	0.73
2:B:148:LEU:HA	2:B:151:ILE:CD1	2.19	0.73
5:E:29:ILE:HD11	5:E:58:ILE:CG2	2.19	0.73
10:4:546:GLY:HA2	10:4:807:ALA:HB2	1.69	0.73
12:6:124:VAL:HB	12:6:133:GLU:HA	1.70	0.73
13:7:145:GLN:HA	13:7:148:LEU:HB3	1.71	0.73
2:B:28:PHE:N	2:B:86:SER:O	2.20	0.73
8:2:541:LEU:N	8:2:648:ALA:O	2.22	0.73
8:2:760:GLN:HA	8:2:763:LEU:CG	2.19	0.73
9:3:415:LYS:HD3	9:3:515:ALA:HB1	1.69	0.73
11:5:412:VAL:HB	11:5:520:LEU:CG	2.18	0.73
11:5:434:PRO:HA	11:5:600:LYS:HD3	1.69	0.73
11:5:473:ASP:HA	11:5:517:THR:CG2	2.19	0.73
12:6:656:MET:HB3	12:6:708:ARG:CG	2.14	0.73
4:D:137:LYS:HD3	4:D:141:ARG:HH22	1.52	0.73
8:2:388:VAL:HB	8:2:408:VAL:CB	2.17	0.73
11:5:254:GLN:HB2	11:5:283:THR:HG22	1.70	0.73
4:D:233:ASN:H	4:D:291:VAL:HA	1.52	0.73
4:D:282:ILE:HD13	4:D:286:LEU:HD13	1.71	0.73
5:E:60:PRO:HD3	5:E:478:TRP:HZ2	1.54	0.73
5:E:266:ASN:HB2	5:E:269:ASN:CG	2.09	0.73
9:3:211:TYR:CD2	13:7:6:PRO:HG2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:189:GLU:HA	10:4:192:THR:HG23	1.70	0.73
13:7:470:LEU:HB3	13:7:522:CYS:HB3	1.71	0.73
9:3:204:ALA:HB1	9:3:205:LYS:HD2	1.69	0.73
9:3:493:GLN:HG3	9:3:509:ARG:HA	1.69	0.73
10:4:713:ASP:HB2	10:4:716:ASN:CB	2.18	0.73
13:7:22:THR:HA	13:7:25:LEU:HB2	1.69	0.73
13:7:357:PRO:CA	13:7:374:THR:HA	2.18	0.73
1:A:170:ASP:HB3	1:A:204:TYR:CD1	2.24	0.72
3:C:51:ALA:HA	3:C:54:LEU:HG	1.70	0.72
10:4:203:TYR:HB2	10:4:206:ARG:HG2	1.69	0.72
10:4:326:ILE:HG22	10:4:328:LEU:HG	1.68	0.72
10:4:830:ARG:HD3	10:4:833:ILE:HD12	1.71	0.72
11:5:258:LEU:N	11:5:274:LEU:O	2.19	0.72
12:6:651:ALA:HA	12:6:654:GLU:HB2	1.71	0.72
13:7:125:MET:HG3	13:7:126:PRO:HD2	1.71	0.72
1:A:70:CYS:O	1:A:74:VAL:N	2.22	0.72
2:B:150:GLU:O	2:B:154:ILE:N	2.18	0.72
5:E:43:LYS:HB2	5:E:484:LEU:HD21	1.70	0.72
5:E:311:LYS:HB2	5:E:312:THR:C	2.10	0.72
8:2:323:VAL:CG2	8:2:393:ALA:HA	2.19	0.72
8:2:343:LYS:HB2	8:2:371:GLY:HA3	1.68	0.72
9:3:172:THR:HG22	9:3:176:LEU:N	2.04	0.72
9:3:276:VAL:HA	9:3:320:LEU:HD13	1.70	0.72
11:5:49:GLN:HG2	11:5:53:ASN:HD21	1.54	0.72
11:5:426:LEU:HD23	11:5:429:VAL:HG21	1.70	0.72
1:A:175:GLN:CB	1:A:180:VAL:HA	2.19	0.72
4:D:218:MET:HA	4:D:220:ASP:N	2.03	0.72
5:E:12:TYR:OH	5:E:52:GLN:NE2	2.22	0.72
5:E:611:GLN:HG3	5:E:649:LEU:HD11	1.70	0.72
8:2:335:LYS:HB3	8:2:381:VAL:O	1.89	0.72
8:2:542:LEU:CD1	8:2:652:PRO:HG3	2.20	0.72
8:2:584:PRO:HB2	8:2:585:ILE:HB	1.71	0.72
9:3:163:ALA:HB3	9:3:164:HIS:CG	2.24	0.72
11:5:169:THR:HG22	11:5:256:LEU:HG	1.69	0.72
12:6:133:GLU:HB3	12:6:134:LYS:CA	2.12	0.72
8:2:502:ALA:HB3	8:2:512:LYS:CE	2.17	0.72
8:2:785:LYS:O	8:2:789:VAL:N	2.20	0.72
10:4:311:CYS:HB3	10:4:327:ASN:O	1.90	0.72
10:4:830:ARG:HA	10:4:833:ILE:HB	1.70	0.72
12:6:402:ILE:O	12:6:403:VAL:HG23	1.88	0.72
12:6:547:ILE:O	12:6:551:MET:HG3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:750:GLN:HA	12:6:753:ARG:HH11	1.55	0.72
13:7:434:LEU:HD21	13:7:699:LEU:CD2	2.19	0.72
9:3:314:LEU:HD23	11:5:201:THR:HG23	1.70	0.72
12:6:554:GLY:CA	12:6:808:GLU:HB3	2.19	0.72
13:7:228:ARG:NH2	13:7:327:ILE:O	2.23	0.72
13:7:650:PRO:HA	13:7:706:ASP:HB3	1.69	0.72
5:E:42:THR:O	5:E:46:SER:N	2.19	0.72
5:E:600:PRO:O	5:E:601:ILE:HG13	1.89	0.72
8:2:419:LYS:CG	8:2:420:PRO:HD2	2.20	0.72
10:4:183:THR:HG23	10:4:264:TYR:CD2	2.25	0.72
11:5:656:ILE:HA	11:5:659:ILE:HD13	1.71	0.72
1:A:87:LEU:HD13	3:C:4:TYR:HE1	1.55	0.72
2:B:175:LEU:HA	2:B:178:ILE:HB	1.71	0.72
2:B:182:ARG:HA	4:D:229:PHE:CZ	2.24	0.72
9:3:314:LEU:CA	11:5:201:THR:HA	2.17	0.72
10:4:721:ALA:O	10:4:725:THR:N	2.22	0.72
12:6:344:TRP:CB	12:6:345:THR:HA	2.20	0.72
13:7:543:GLN:CG	13:7:544:GLN:H	2.02	0.72
1:A:41:LEU:HA	1:A:44:VAL:CG1	2.20	0.72
2:B:79:LEU:HD21	4:D:124:LEU:HD23	1.71	0.72
2:B:148:LEU:HA	2:B:151:ILE:HG12	1.72	0.72
5:E:539:TYR:HB3	5:E:545:LEU:HD11	1.69	0.72
9:3:294:VAL:HG22	9:3:326:VAL:HG13	1.71	0.72
9:3:553:ILE:HB	11:5:630:ARG:HD2	1.72	0.72
10:4:830:ARG:HA	10:4:833:ILE:HD12	1.71	0.72
11:5:382:GLU:O	11:5:386:LYS:N	2.21	0.72
11:5:413:LEU:CB	11:5:553:ILE:HG23	2.19	0.72
11:5:634:LEU:HA	11:5:637:GLU:HB2	1.72	0.72
12:6:189:VAL:O	12:6:193:ALA:N	2.22	0.72
3:C:82:THR:HA	3:C:85:MET:HG2	1.72	0.72
10:4:347:PHE:HB3	10:4:382:MET:SD	2.30	0.72
10:4:661:ILE:HD13	12:6:392:GLY:N	2.04	0.72
13:7:259:ALA:O	13:7:301:SER:N	2.16	0.72
2:B:168:LEU:HB3	2:B:170:LEU:HD21	1.71	0.72
8:2:700:VAL:HG12	12:6:770:ARG:HH11	1.55	0.72
10:4:762:ILE:HA	10:4:817:VAL:HG12	1.70	0.72
12:6:563:ILE:H	12:6:563:ILE:HD12	1.55	0.72
1:A:186:ASP:O	5:E:478:TRP:NE1	2.23	0.71
3:C:53:ILE:HA	3:C:56:ILE:CG1	2.20	0.71
3:C:126:GLU:OE2	3:C:130:GLN:NE2	2.22	0.71
8:2:339:PHE:HB2	8:2:348:LEU:CD2	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:277:ILE:HB	9:3:322:LEU:HD22	1.71	0.71
9:3:682:ASN:O	9:3:686:LEU:HG	1.89	0.71
9:3:687:ARG:HG2	9:3:697:ILE:HG21	1.72	0.71
11:5:49:GLN:O	11:5:53:ASN:ND2	2.23	0.71
12:6:194:PRO:HG2	12:6:261:ARG:HH21	1.54	0.71
12:6:806:LEU:HB3	12:6:827:ALA:CB	2.18	0.71
3:C:101:ASN:H	3:C:102:SER:HA	1.55	0.71
4:D:218:MET:N	4:D:219:ILE:HB	2.04	0.71
4:D:250:GLU:HG3	4:D:256:TYR:CD2	2.25	0.71
8:2:226:VAL:O	8:2:230:ARG:N	2.23	0.71
4:D:64:MET:SD	4:D:139:VAL:HG11	2.30	0.71
8:2:676:ARG:HH12	11:5:418:PRO:HB2	1.54	0.71
9:3:38:TYR:CZ	9:3:98:ILE:HA	2.26	0.71
11:5:379:PHE:CD2	11:5:568:ILE:HB	2.24	0.71
12:6:660:THR:CB	12:6:673:ASN:HA	2.21	0.71
3:C:55:ALA:HB1	3:C:70:PRO:CB	2.20	0.71
4:D:123:LYS:HD3	5:E:22:HIS:NE2	2.05	0.71
5:E:579:TYR:CZ	5:E:634:ARG:HB3	2.26	0.71
7:G:16:DG:H2'	7:G:17:DA:C8	2.25	0.71
10:4:395:GLN:CB	10:4:424:VAL:HG13	2.21	0.71
10:4:618:SER:HB3	10:4:622:VAL:HB	1.72	0.71
10:4:758:ILE:HG22	10:4:760:PRO:HD3	1.72	0.71
3:C:188:LYS:HA	3:C:191:MET:HG2	1.71	0.71
5:E:293:PRO:O	5:E:297:ASP:N	2.21	0.71
10:4:277:LYS:HA	10:4:301:TYR:HD2	1.56	0.71
10:4:587:ARG:O	10:4:627:GLY:HA3	1.89	0.71
11:5:148:LEU:HD23	11:5:260:GLU:HB3	1.71	0.71
12:6:601:LYS:HG3	12:6:643:LYS:HB3	1.72	0.71
5:E:92:LEU:O	5:E:96:LEU:N	2.23	0.71
5:E:421:ALA:HA	5:E:424:PHE:HB3	1.71	0.71
9:3:40:ASP:O	9:3:44:SER:N	2.24	0.71
10:4:192:THR:HG22	10:4:195:ARG:NH2	2.04	0.71
10:4:453:LEU:HB2	13:7:278:PHE:CZ	2.25	0.71
11:5:148:LEU:HD11	11:5:274:LEU:CD1	2.20	0.71
11:5:436:ALA:HB2	11:5:476:VAL:HB	1.73	0.71
12:6:134:LYS:HG2	12:6:137:ARG:HG3	1.72	0.71
12:6:703:ALA:HA	12:6:706:MET:HB3	1.73	0.71
13:7:244:ILE:O	13:7:316:GLN:N	2.23	0.71
1:A:149:ILE:HG12	4:D:141:ARG:NE	2.05	0.71
5:E:561:ASP:HB3	5:E:562:LYS:CG	2.21	0.71
9:3:533:ILE:HG21	9:3:540:LEU:CD1	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:51:ARG:HA	11:5:54:ILE:HD12	1.72	0.71
1:A:84:ARG:NH1	3:C:3:TYR:HA	2.06	0.71
5:E:637:LEU:O	5:E:641:LEU:HG	1.91	0.71
8:2:324:VAL:HG12	8:2:420:PRO:HA	1.72	0.71
9:3:687:ARG:HG2	9:3:697:ILE:CG2	2.20	0.71
10:4:688:VAL:HG11	10:4:836:TYR:CD1	2.26	0.71
11:5:544:THR:HB	11:5:547:LEU:HD12	1.73	0.71
12:6:171:SER:O	12:6:286:SER:HA	1.89	0.71
12:6:711:LEU:HB3	12:6:713:PHE:CE1	2.24	0.71
1:A:83:LYS:O	1:A:87:LEU:HG	1.91	0.71
4:D:144:ILE:O	4:D:148:LEU:HG	1.91	0.71
4:D:145:ARG:HA	4:D:148:LEU:CD1	2.18	0.71
5:E:33:CYS:SG	5:E:62:PHE:HA	2.30	0.71
8:2:431:LYS:HB2	8:2:433:ASN:OD1	1.91	0.71
8:2:445:PRO:HG3	12:6:325:PHE:HA	1.72	0.71
8:2:578:ALA:HB2	8:2:593:GLY:CA	2.16	0.71
9:3:176:LEU:HG	9:3:298:PHE:CD2	2.26	0.71
11:5:502:ILE:HB	11:5:513:LEU:HD11	1.70	0.71
1:A:97:LEU:CD1	1:A:123:LEU:HD11	2.21	0.71
2:B:170:LEU:CD1	4:D:276:VAL:HG23	2.21	0.71
3:C:46:LEU:HD13	3:C:54:LEU:CD1	2.21	0.71
5:E:61:ILE:H	5:E:61:ILE:HD12	1.56	0.71
8:2:227:TYR:HA	8:2:230:ARG:CB	2.21	0.71
8:2:430:TYR:CD1	8:2:451:ILE:HD11	2.25	0.71
9:3:389:VAL:HG21	9:3:669:PRO:HD2	1.73	0.71
12:6:767:LYS:NZ	12:6:820:THR:HA	2.05	0.71
13:7:599:LEU:HD11	13:7:726:SER:CB	2.20	0.71
2:B:94:THR:O	2:B:98:LEU:HG	1.91	0.70
2:B:175:LEU:HA	2:B:178:ILE:HD12	1.72	0.70
4:D:200:LYS:HB2	4:D:201:TYR:CD2	2.26	0.70
4:D:230:ILE:HD12	4:D:291:VAL:HG21	1.72	0.70
8:2:585:ILE:HD12	11:5:457:PRO:HA	1.72	0.70
10:4:347:PHE:H	10:4:357:ALA:HB2	1.56	0.70
11:5:375:ALA:N	11:5:385:LYS:HE3	2.06	0.70
11:5:473:ASP:OD1	11:5:516:ARG:N	2.20	0.70
11:5:622:LEU:HD21	11:5:677:VAL:HG11	1.72	0.70
13:7:319:SER:HA	13:7:322:VAL:HG23	1.72	0.70
4:D:268:GLU:O	4:D:269:LEU:HD22	1.91	0.70
5:E:392:PHE:CA	5:E:396:LEU:HD23	2.16	0.70
12:6:143:MET:HE1	12:6:148:LEU:CB	2.15	0.70
13:7:460:GLY:HA3	13:7:600:MET:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:LEU:HB3	1:A:131:LEU:HD12	1.73	0.70
1:A:163:ILE:HG21	1:A:208:ILE:HG23	1.71	0.70
2:B:24:PRO:HA	2:B:72:VAL:HA	1.73	0.70
5:E:583:GLY:N	5:E:628:SER:O	2.25	0.70
9:3:420:ARG:HH11	11:5:499:GLN:HB3	1.57	0.70
9:3:683:TYR:CD2	9:3:702:LEU:HD12	2.27	0.70
10:4:329:LYS:HA	10:4:433:ILE:O	1.91	0.70
10:4:631:ILE:O	10:4:674:SER:N	2.21	0.70
12:6:625:ALA:HB3	12:6:626:GLY:CA	2.19	0.70
1:A:52:GLU:HA	1:A:55:LYS:HB3	1.72	0.70
4:D:257:THR:O	4:D:268:GLU:HB3	1.91	0.70
5:E:129:TRP:CH2	5:E:143:PHE:HB3	2.27	0.70
8:2:426:VAL:HG12	8:2:456:ILE:HG13	1.73	0.70
10:4:501:ILE:HG21	10:4:749:MET:HE3	1.73	0.70
11:5:421:ALA:HA	14:5:801:ATP:O2A	1.92	0.70
11:5:428:PHE:CE2	11:5:432:VAL:HG21	2.26	0.70
12:6:371:GLY:HA3	13:7:554:ASN:ND2	2.06	0.70
12:6:711:LEU:HD12	12:6:712:PHE:H	1.57	0.70
12:6:806:LEU:HD11	12:6:831:LEU:CD2	2.21	0.70
13:7:154:LEU:HD13	13:7:189:THR:HG23	1.72	0.70
2:B:121:VAL:HG13	3:C:190:TRP:HZ2	1.57	0.70
10:4:499:ARG:NH1	10:4:749:MET:HB3	2.05	0.70
11:5:422:LYS:NZ	14:5:801:ATP:O3G	2.23	0.70
11:5:439:THR:HA	11:5:444:SER:CB	2.22	0.70
12:6:545:LYS:O	12:6:549:LEU:HG	1.91	0.70
13:7:209:GLN:HG2	13:7:210:ASN:H	1.56	0.70
13:7:680:SER:HB2	13:7:681:PHE:CA	2.13	0.70
4:D:216:VAL:HG22	4:D:219:ILE:HG13	1.71	0.70
8:2:426:VAL:HB	8:2:453:ALA:HB2	1.73	0.70
8:2:701:ASP:HA	8:2:704:VAL:HG23	1.73	0.70
10:4:437:GLY:HA2	10:4:464:VAL:HB	1.73	0.70
10:4:603:ALA:HB3	10:4:658:LYS:CE	2.21	0.70
10:4:695:PRO:HG2	10:4:698:LEU:HB3	1.72	0.70
10:4:794:THR:HG23	10:4:797:GLN:H	1.56	0.70
13:7:398:GLU:O	13:7:402:MET:HG3	1.92	0.70
8:2:338:LYS:HE2	8:2:379:LYS:CB	2.16	0.70
9:3:32:LEU:HD13	9:3:38:TYR:HB2	1.73	0.70
9:3:189:THR:HG23	9:3:256:ILE:CG2	2.21	0.70
10:4:547:GLY:HA3	10:4:560:GLY:CA	2.20	0.70
11:5:378:ILE:HA	14:5:801:ATP:C2	2.26	0.70
13:7:513:LEU:HD13	13:7:540:VAL:CG2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:643:ALA:HA	13:7:646:LYS:HB2	1.74	0.70
13:7:670:ASP:HA	13:7:673:ARG:CG	2.21	0.70
1:A:79:MET:HB3	4:D:206:LEU:HD11	1.72	0.70
3:C:26:GLY:H	3:C:36:ARG:HG3	1.56	0.70
8:2:383:ARG:HE	8:2:411:LEU:HD23	1.56	0.70
10:4:351:VAL:HG12	10:4:352:CYS:HA	1.74	0.70
10:4:370:ARG:HD3	10:4:379:PRO:CA	2.22	0.70
10:4:561:ASP:O	10:4:803:ARG:NH2	2.25	0.70
11:5:63:VAL:HG11	11:5:68:LEU:HD11	1.74	0.70
11:5:435:ILE:CD1	11:5:475:GLY:HA3	2.22	0.70
12:6:571:ILE:HB	12:6:679:LEU:HD12	1.74	0.70
13:7:89:GLN:NE2	13:7:103:VAL:HG23	2.07	0.70
1:A:168:LEU:CD1	1:A:206:GLN:HB2	2.20	0.70
1:A:168:LEU:CD2	1:A:206:GLN:HB2	2.21	0.70
5:E:615:GLU:HG2	5:E:616:THR:H	1.56	0.70
8:2:479:GLU:OE1	8:2:479:GLU:N	2.25	0.70
11:5:379:PHE:CB	11:5:568:ILE:HD13	2.22	0.70
12:6:361:ILE:HD12	12:6:397:PHE:HE2	1.55	0.70
13:7:240:THR:HG23	13:7:352:THR:HG22	1.73	0.70
4:D:162:ASN:HA	4:D:169:ILE:HD12	1.74	0.70
4:D:224:TRP:CB	4:D:280:GLU:HB2	2.21	0.70
5:E:43:LYS:CB	5:E:484:LEU:HD21	2.20	0.70
9:3:183:GLU:OE1	9:3:183:GLU:N	2.24	0.70
11:5:49:GLN:HG2	11:5:53:ASN:ND2	2.06	0.70
11:5:414:LEU:HB2	11:5:522:ALA:HA	1.74	0.70
12:6:362:GLN:HA	12:6:376:THR:CG2	2.22	0.70
13:7:362:GLY:HA2	13:7:363:PHE:CB	2.22	0.70
1:A:13:ALA:O	1:A:16:THR:HG22	1.92	0.69
5:E:347:LYS:HD2	5:E:401:LEU:HD23	1.74	0.69
5:E:471:LYS:O	5:E:475:SER:N	2.22	0.69
10:4:183:THR:HG22	10:4:185:VAL:HB	1.74	0.69
12:6:179:PRO:HA	12:6:182:GLN:HE22	1.56	0.69
12:6:399:GLY:HA2	12:6:454:PHE:HZ	1.57	0.69
13:7:193:PRO:HD2	13:7:196:LEU:HD13	1.74	0.69
13:7:520:ILE:CA	13:7:562:SER:HB2	2.22	0.69
13:7:692:ILE:HA	13:7:695:LEU:HG	1.72	0.69
5:E:43:LYS:HG2	5:E:484:LEU:HD21	1.74	0.69
5:E:162:LEU:HD22	5:E:165:LEU:HD23	1.74	0.69
9:3:569:HIS:CE1	11:5:657:ILE:HG21	2.27	0.69
10:4:407:PRO:HG2	10:4:410:GLN:CB	2.23	0.69
11:5:498:GLU:OE1	11:5:498:GLU:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:68:GLN:O	13:7:72:ASN:N	2.25	0.69
1:A:17:LYS:HG2	1:A:92:LEU:HD21	1.74	0.69
5:E:545:LEU:HG	5:E:548:LEU:HD23	1.75	0.69
9:3:176:LEU:HD23	9:3:177:ASN:N	2.06	0.69
9:3:189:THR:HG23	9:3:256:ILE:HG21	1.74	0.69
10:4:433:ILE:HG23	10:4:469:VAL:HA	1.74	0.69
10:4:802:ILE:HD13	12:6:735:HIS:CG	2.27	0.69
13:7:664:TYR:CG	13:7:689:LEU:HD22	2.27	0.69
1:A:23:SER:N	1:A:24:ASN:HA	2.08	0.69
2:B:196:HIS:CE1	4:D:263:LEU:HD21	2.26	0.69
5:E:32:SER:OG	5:E:84:VAL:O	2.10	0.69
8:2:567:THR:HG22	8:2:572:SER:HB2	1.75	0.69
8:2:692:ASP:O	8:2:696:ALA:N	2.25	0.69
9:3:163:ALA:CA	9:3:164:HIS:HB2	2.22	0.69
9:3:182:VAL:O	9:3:294:VAL:N	2.25	0.69
9:3:463:VAL:CG2	9:3:495:VAL:HG21	2.23	0.69
12:6:143:MET:HE2	12:6:150:THR:H	1.57	0.69
12:6:780:LEU:HD22	12:6:781:ARG:HG3	1.73	0.69
13:7:273:VAL:CG1	13:7:278:PHE:HB3	2.19	0.69
4:D:224:TRP:CZ3	4:D:283:ARG:HD3	2.28	0.69
5:E:43:LYS:HD3	5:E:481:TRP:CZ2	2.27	0.69
6:F:22:DT:H6	6:F:22:DT:H5"	1.55	0.69
8:2:525:LYS:NZ	11:5:577:THR:H	1.91	0.69
9:3:21:PHE:HE1	9:3:123:PRO:HB2	1.57	0.69
11:5:503:SER:CB	11:5:512:VAL:HG22	2.23	0.69
12:6:119:LEU:HD11	12:6:188:VAL:HG21	1.75	0.69
3:C:106:SER:O	3:C:110:LYS:NZ	2.24	0.69
5:E:13:ASN:HA	5:E:16:LEU:HG	1.74	0.69
5:E:81:LEU:HD12	5:E:120:ILE:HG23	1.74	0.69
8:2:419:LYS:HG3	11:5:269:GLU:HG2	1.73	0.69
9:3:730:ALA:O	9:3:734:ARG:N	2.25	0.69
10:4:233:MET:HE2	10:4:239:SER:HA	1.74	0.69
10:4:351:VAL:CG1	10:4:352:CYS:HA	2.22	0.69
12:6:406:ASP:N	12:6:449:THR:O	2.19	0.69
12:6:552:LEU:HG	12:6:759:ARG:CD	2.21	0.69
13:7:21:ILE:HD13	13:7:117:PHE:HA	1.75	0.69
13:7:220:ILE:HA	13:7:223:LYS:HZ3	1.57	0.69
3:C:96:ASP:HA	3:C:168:LYS:HB2	1.75	0.69
4:D:231:HIS:N	4:D:292:ALA:O	2.21	0.69
5:E:558:GLU:N	5:E:559:SER:HA	2.08	0.69
8:2:386:GLN:HB2	8:2:415:VAL:HG13	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:630:SER:CB	11:5:445:SER:HA	2.23	0.69
9:3:354:SER:HB3	9:3:717:LEU:HD22	1.72	0.69
10:4:456:LEU:HG	13:7:253:PRO:O	1.93	0.69
10:4:762:ILE:HD11	12:6:736:MET:HE3	1.73	0.69
12:6:806:LEU:CB	12:6:827:ALA:HB1	2.21	0.69
13:7:214:ARG:N	13:7:215:TYR:HA	2.07	0.69
13:7:479:ARG:CG	13:7:519:GLY:HA3	2.23	0.69
13:7:642:ILE:O	13:7:646:LYS:HG3	1.93	0.69
2:B:161:LYS:HA	3:C:133:GLN:NE2	2.08	0.69
2:B:177:GLU:HA	2:B:180:GLU:HG2	1.74	0.69
4:D:105:PHE:O	4:D:108:MET:HG2	1.92	0.69
4:D:159:ARG:O	4:D:163:GLU:N	2.23	0.69
4:D:266:GLU:HB3	4:D:268:GLU:CG	2.23	0.69
5:E:271:TRP:O	5:E:275:LEU:N	2.26	0.69
5:E:558:GLU:OE1	5:E:560:GLU:HB2	1.93	0.69
5:E:559:SER:HB2	5:E:560:GLU:C	2.13	0.69
8:2:227:TYR:HA	8:2:230:ARG:HB3	1.74	0.69
8:2:253:LYS:HB3	8:2:255:ILE:HG13	1.73	0.69
8:2:388:VAL:CB	8:2:408:VAL:HB	2.19	0.69
9:3:201:HIS:CB	9:3:210:HIS:HB2	2.17	0.69
9:3:475:PHE:HA	9:3:478:MET:SD	2.33	0.69
9:3:530:HIS:HA	9:3:533:ILE:CD1	2.22	0.69
10:4:243:LEU:HB2	10:4:303:VAL:HG13	1.75	0.69
10:4:354:HIS:CD2	10:4:373:ARG:HG3	2.28	0.69
10:4:451:ARG:NE	12:6:445:VAL:HG21	2.08	0.69
10:4:719:GLU:HA	10:4:722:LYS:HB2	1.74	0.69
10:4:795:THR:O	10:4:799:GLU:N	2.26	0.69
11:5:169:THR:CG2	11:5:256:LEU:HG	2.21	0.69
11:5:526:ILE:HB	11:5:527:TYR:HD2	1.57	0.69
11:5:633:LEU:CB	11:5:648:ILE:HD11	2.21	0.69
12:6:294:VAL:CG1	12:6:391:PRO:HA	2.22	0.69
12:6:522:ASP:HB2	12:6:525:ILE:CG2	2.23	0.69
12:6:720:ASN:O	12:6:724:ASP:N	2.23	0.69
1:A:102:TRP:HB3	4:D:145:ARG:HH22	1.58	0.69
1:A:161:VAL:HG12	1:A:192:ARG:HB2	1.74	0.69
2:B:12:SER:HB3	2:B:15:GLU:CG	2.20	0.69
3:C:20:PHE:CE1	3:C:46:LEU:HD11	2.18	0.69
8:2:458:ARG:NH1	8:2:561:HIS:O	2.26	0.69
10:4:572:THR:HG21	10:4:708:VAL:HG11	1.75	0.69
13:7:128:PRO:HD2	13:7:129:THR:HA	1.75	0.69
13:7:244:ILE:CD1	13:7:318:LEU:HA	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:402:MET:HA	13:7:405:ILE:CB	2.21	0.69
1:A:182:ASN:CB	5:E:74:LEU:HD13	2.16	0.69
2:B:116:PRO:HB2	2:B:119:TRP:HB3	1.75	0.69
2:B:187:GLU:HB2	3:C:179:LYS:NZ	2.08	0.69
8:2:243:GLU:HG2	8:2:297:ILE:O	1.92	0.69
8:2:335:LYS:HA	8:2:383:ARG:NH1	2.08	0.69
8:2:424:VAL:HG21	8:2:456:ILE:HG23	1.74	0.69
8:2:524:PRO:HB2	8:2:525:LYS:HA	1.75	0.69
10:4:461:VAL:HG12	10:4:463:VAL:N	2.07	0.69
11:5:473:ASP:HA	11:5:517:THR:HG22	1.74	0.69
11:5:594:ILE:HG22	11:5:596:ILE:N	2.06	0.69
12:6:532:SER:HA	12:6:744:PRO:CB	2.22	0.69
1:A:135:CYS:O	1:A:139:THR:HG23	1.93	0.68
1:A:157:PRO:HG3	4:D:138:PHE:CE2	2.28	0.68
4:D:140:ILE:HD12	4:D:141:ARG:N	2.08	0.68
5:E:320:ILE:HG22	5:E:409:PHE:CD1	2.27	0.68
8:2:635:GLY:HA3	11:5:465:GLU:CG	2.23	0.68
8:2:803:PHE:N	8:2:804:PRO:HA	2.08	0.68
11:5:585:ASN:O	11:5:589:GLU:N	2.26	0.68
12:6:416:LYS:HD3	12:6:449:THR:OG1	1.93	0.68
12:6:701:MET:HB2	12:6:705:ILE:HD11	1.74	0.68
1:A:91:ARG:HA	4:D:190:TRP:HH2	1.57	0.68
6:F:9:DA:N6	7:G:10:DT:O4	2.17	0.68
6:F:23:DT:P	8:2:581:ARG:HE	2.15	0.68
8:2:394:PRO:HB2	12:6:672:LEU:CD2	2.24	0.68
10:4:517:ASP:O	10:4:521:LEU:N	2.25	0.68
11:5:77:LYS:HA	11:5:80:SER:HB2	1.75	0.68
11:5:540:ILE:HD12	11:5:547:LEU:CD2	2.22	0.68
12:6:820:THR:O	12:6:824:ILE:HG12	1.93	0.68
13:7:529:MET:HE1	13:7:537:ILE:HD12	1.75	0.68
1:A:138:ILE:HA	1:A:141:LEU:HD23	1.75	0.68
5:E:91:ASP:OD2	5:E:93:GLU:HB3	1.93	0.68
5:E:289:ASN:HA	5:E:292:TYR:HE2	1.58	0.68
5:E:433:GLU:OE1	5:E:433:GLU:N	2.24	0.68
5:E:619:LYS:HB3	5:E:633:ARG:HG2	1.74	0.68
8:2:611:LYS:HG2	12:6:650:VAL:HG13	1.73	0.68
9:3:470:VAL:HB	9:3:512:VAL:HG22	1.75	0.68
10:4:747:LEU:O	10:4:751:ILE:HG13	1.93	0.68
13:7:668:ARG:NH2	13:7:685:THR:HA	2.09	0.68
3:C:16:PHE:HE2	3:C:48:LEU:HB2	1.57	0.68
8:2:230:ARG:HH12	8:2:243:GLU:HB3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:774:ILE:HD11	8:2:827:GLU:CA	2.23	0.68
9:3:259:GLN:CG	9:3:271:PRO:HB2	2.23	0.68
11:5:300:ILE:CG2	11:5:324:ARG:HB2	2.23	0.68
11:5:374:ILE:HG23	11:5:428:PHE:CE2	2.29	0.68
4:D:98:ILE:HG21	4:D:129:MET:CG	2.23	0.68
4:D:286:LEU:CD2	4:D:293:LEU:HD21	2.24	0.68
5:E:285:ALA:HB3	5:E:286:GLN:CA	2.22	0.68
5:E:530:LEU:HD22	5:E:536:LEU:HD11	1.76	0.68
8:2:794:ARG:O	8:2:798:ILE:N	2.24	0.68
9:3:24:ARG:NH1	9:3:120:TYR:HB3	2.08	0.68
9:3:32:LEU:O	9:3:36:THR:HA	1.94	0.68
9:3:563:GLU:O	9:3:567:ARG:N	2.23	0.68
10:4:276:ILE:HD11	10:4:303:VAL:HG22	1.76	0.68
11:5:138:ILE:CG2	11:5:332:GLY:HA3	2.22	0.68
12:6:106:VAL:HA	12:6:109:GLU:CB	2.18	0.68
12:6:537:VAL:HG22	12:6:583:GLN:CB	2.24	0.68
12:6:640:GLU:N	12:6:681:ALA:O	2.27	0.68
13:7:251:VAL:HG23	13:7:310:PHE:C	2.14	0.68
13:7:349:VAL:HG23	13:7:382:ARG:O	1.93	0.68
13:7:718:ARG:HA	13:7:721:ARG:NH1	2.09	0.68
1:A:149:ILE:CG2	1:A:151:LEU:HB3	2.24	0.68
2:B:195:ILE:HD12	2:B:196:HIS:N	2.08	0.68
4:D:79:TYR:HA	4:D:147:ARG:HH12	1.57	0.68
5:E:536:LEU:CD1	5:E:571:SER:HB2	2.23	0.68
6:F:23:DT:H2 [?]	6:F:24:DT:C5	2.29	0.68
8:2:266:GLU:CA	8:2:269:LYS:HB3	2.19	0.68
8:2:484:PHE:HA	8:2:487:ILE:CD1	2.23	0.68
9:3:112:SER:HA	9:3:115:LEU:HD12	1.76	0.68
9:3:339:ARG:H	9:3:340:GLN:CB	2.05	0.68
10:4:231:ASN:O	10:4:234:ARG:HG2	1.93	0.68
11:5:382:GLU:CA	11:5:385:LYS:HB3	2.19	0.68
12:6:293:THR:N	12:6:394:ARG:HG2	2.09	0.68
12:6:690:ASN:HB3	12:6:693:LEU:HG	1.75	0.68
1:A:82:ASN:O	1:A:86:LEU:HG	1.93	0.68
2:B:180:GLU:OE1	3:C:187:THR:HG21	1.93	0.68
4:D:258:VAL:HA	4:D:259:THR:HG23	1.74	0.68
5:E:377:TRP:O	5:E:385:LYS:NZ	2.24	0.68
5:E:620:VAL:CG2	5:E:632:ILE:HD13	2.24	0.68
8:2:302:THR:HG21	8:2:319:ARG:N	2.07	0.68
8:2:481:GLU:CA	8:2:484:PHE:HB3	2.23	0.68
9:3:403:ILE:HG22	9:3:405:ILE:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:470:VAL:O	9:3:513:ILE:N	2.23	0.68
9:3:480:ASP:HA	9:3:483:ARG:CG	2.24	0.68
11:5:540:ILE:HD12	11:5:547:LEU:HD23	1.73	0.68
11:5:588:GLU:O	11:5:593:GLU:N	2.27	0.68
12:6:111:VAL:HG13	12:6:166:LEU:HG	1.75	0.68
12:6:395:CYS:SG	12:6:461:SER:HA	2.34	0.68
12:6:530:VAL:HA	12:6:533:ILE:CD1	2.23	0.68
5:E:43:LYS:CG	5:E:484:LEU:HD21	2.23	0.68
8:2:208:ALA:HA	8:2:211:LEU:HG	1.76	0.68
8:2:578:ALA:CB	8:2:593:GLY:HA2	2.16	0.68
9:3:330:HIS:CD2	9:3:338:ALA:HA	2.29	0.68
11:5:532:ASP:OD2	11:5:557:LYS:NZ	2.25	0.68
11:5:594:ILE:HG12	11:5:599:MET:HE3	1.74	0.68
13:7:146:ARG:NH2	13:7:303:ARG:O	2.26	0.68
1:A:32:TYR:HA	1:A:93:ARG:HH12	1.58	0.68
1:A:83:LYS:HE3	4:D:206:LEU:HB3	1.76	0.68
4:D:224:TRP:O	4:D:280:GLU:N	2.27	0.68
8:2:333:GLN:N	8:2:383:ARG:O	2.27	0.68
8:2:394:PRO:HA	8:2:397:VAL:CG2	2.24	0.68
8:2:409:ILE:HB	8:2:452:GLU:CB	2.23	0.68
9:3:119:ALA:HB1	9:3:222:THR:CG2	2.17	0.68
9:3:211:TYR:CD1	13:7:8:ILE:HD12	2.29	0.68
10:4:224:LEU:HD11	10:4:227:ILE:CB	2.24	0.68
10:4:234:ARG:HB3	10:4:280:MET:CE	2.23	0.68
10:4:377:ASN:CB	10:4:378:GLU:CA	2.72	0.68
12:6:308:SER:HA	12:6:319:ASP:HA	1.74	0.68
1:A:26:ASP:O	1:A:27:VAL:HG12	1.93	0.68
1:A:184:ILE:HD11	5:E:73:GLN:HE22	1.59	0.68
3:C:12:ASP:HB3	3:C:49:TRP:H	1.59	0.68
4:D:73:SER:OG	4:D:150:LYS:NZ	2.27	0.68
8:2:311:GLU:HB2	8:2:314:LEU:HD23	1.75	0.68
9:3:27:ARG:NE	9:3:107:ASP:OD2	2.26	0.68
10:4:224:LEU:CD1	10:4:227:ILE:H	2.07	0.68
10:4:559:ARG:CZ	10:4:668:ARG:HD3	2.23	0.68
11:5:164:GLY:N	11:5:292:VAL:O	2.27	0.68
11:5:504:ILE:HG22	11:5:506:LYS:H	1.59	0.68
12:6:189:VAL:HG21	12:6:263:PHE:CE2	2.29	0.68
12:6:290:ILE:O	12:6:397:PHE:N	2.27	0.68
12:6:765:LEU:HB2	12:6:819:ILE:HD13	1.74	0.68
13:7:225:LEU:HB2	13:7:241:VAL:HG12	1.76	0.68
13:7:633:VAL:HG12	13:7:638:MET:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:184:PHE:O	2:B:188:ILE:HG13	1.94	0.67
5:E:382:HIS:HB2	11:5:77:LYS:HZ2	1.58	0.67
6:F:18:DT:H2"	6:F:19:DT:C5	2.29	0.67
8:2:327:ARG:HB3	8:2:388:VAL:HG13	1.75	0.67
8:2:776:PRO:HD3	8:2:822:LYS:HG2	1.76	0.67
9:3:301:LEU:HA	11:5:245:HIS:CD2	2.29	0.67
11:5:293:THR:OG1	11:5:334:GLN:O	2.12	0.67
11:5:370:LEU:HD11	11:5:599:MET:HE1	1.76	0.67
12:6:274:HIS:CG	12:6:288:LEU:HD11	2.29	0.67
12:6:377:LEU:HD22	12:6:452:ILE:CG2	2.24	0.67
13:7:128:PRO:HB2	13:7:129:THR:C	2.15	0.67
1:A:5:LEU:HA	1:A:8:LYS:HG2	1.74	0.67
1:A:159:SER:O	1:A:163:ILE:HD11	1.93	0.67
8:2:212:LYS:CE	8:2:274:VAL:HB	2.15	0.67
8:2:554:LYS:HE2	12:6:658:GLN:NE2	2.10	0.67
8:2:580:VAL:HG21	8:2:592:GLU:H	1.59	0.67
8:2:783:MET:SD	8:2:834:LEU:HD11	2.34	0.67
10:4:417:LEU:HD13	10:4:419:VAL:HG13	1.76	0.67
11:5:550:PHE:CB	11:5:553:ILE:HD11	2.25	0.67
12:6:304:LEU:HA	12:6:353:PHE:CE1	2.29	0.67
12:6:532:SER:HB3	12:6:745:PRO:HG2	1.75	0.67
13:7:258:ILE:HD12	13:7:271:GLN:HE21	1.59	0.67
1:A:127:GLU:OE1	4:D:193:LEU:HD11	1.94	0.67
1:A:170:ASP:HB3	1:A:204:TYR:HD1	1.60	0.67
5:E:64:TYR:HB2	5:E:625:PHE:CA	2.24	0.67
9:3:441:GLY:HA3	9:3:462:MET:CB	2.19	0.67
12:6:186:ARG:HG2	12:6:263:PHE:CE2	2.29	0.67
13:7:367:LYS:CA	13:7:368:ALA:HB3	2.24	0.67
2:B:11:PHE:HA	4:D:71:ARG:NH1	2.07	0.67
3:C:90:THR:HG23	9:3:104:ARG:NH1	2.09	0.67
4:D:212:THR:HB	4:D:214:GLY:N	2.10	0.67
5:E:516:LYS:CE	5:E:518:LEU:HD11	2.24	0.67
5:E:634:ARG:HA	5:E:637:LEU:CD2	2.24	0.67
8:2:229:ALA:HA	8:2:232:ARG:CG	2.24	0.67
8:2:254:ALA:O	8:2:258:LEU:N	2.25	0.67
8:2:426:VAL:HB	8:2:453:ALA:CB	2.24	0.67
8:2:612:MET:CE	8:2:620:ILE:HD11	2.24	0.67
10:4:718:ARG:HG3	13:7:661:VAL:HG11	1.75	0.67
12:6:692:LYS:HA	12:6:840:VAL:HG12	1.75	0.67
12:6:777:TYR:CZ	12:6:781:ARG:HD3	2.29	0.67
13:7:231:LYS:HG3	13:7:233:ASP:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:485:GLY:N	13:7:524:ASP:O	2.27	0.67
13:7:529:MET:CE	13:7:537:ILE:HD12	2.25	0.67
1:A:173:GLU:HG3	1:A:180:VAL:HB	1.77	0.67
5:E:323:ASP:N	5:E:406:ARG:O	2.26	0.67
5:E:624:ASN:CB	5:E:629:ILE:HG23	2.23	0.67
8:2:574:VAL:HG23	8:2:575:GLY:N	2.07	0.67
8:2:774:ILE:HD11	8:2:827:GLU:HA	1.75	0.67
9:3:382:LEU:HA	9:3:385:LEU:HG	1.77	0.67
9:3:445:ALA:HA	9:3:457:LEU:HD22	1.77	0.67
10:4:762:ILE:HD11	12:6:736:MET:CE	2.24	0.67
5:E:268:SER:O	5:E:272:LEU:HG	1.94	0.67
8:2:428:GLY:CA	8:2:453:ALA:HA	2.24	0.67
8:2:569:GLN:HG2	8:2:570:GLY:H	1.60	0.67
9:3:254:GLN:CB	9:3:283:VAL:HG22	2.25	0.67
9:3:472:ILE:HB	9:3:514:ALA:CB	2.24	0.67
10:4:435:VAL:CG2	10:4:466:VAL:HG13	2.25	0.67
10:4:602:THR:HA	10:4:619:GLY:HA3	1.75	0.67
11:5:50:LEU:HD11	11:5:98:ALA:HB2	1.77	0.67
11:5:148:LEU:HB3	11:5:260:GLU:HB3	1.76	0.67
11:5:175:ARG:O	11:5:251:ILE:N	2.24	0.67
12:6:690:ASN:HB3	12:6:693:LEU:CD1	2.25	0.67
13:7:208:SER:HB3	13:7:209:GLN:CA	2.25	0.67
13:7:311:GLN:O	13:7:335:VAL:N	2.28	0.67
13:7:455:ASN:ND2	13:7:541:MET:SD	2.67	0.67
3:C:101:ASN:HB2	3:C:102:SER:C	2.14	0.67
8:2:427:THR:O	8:2:454:ASN:N	2.27	0.67
9:3:562:SER:O	9:3:566:LEU:HG	1.95	0.67
11:5:61:LEU:O	11:5:138:ILE:N	2.23	0.67
11:5:170:SER:O	11:5:254:GLN:NE2	2.27	0.67
12:6:305:TYR:HE2	12:6:354:LEU:HG	1.55	0.67
13:7:143:LEU:HD11	13:7:197:THR:CG2	2.24	0.67
13:7:456:VAL:HB	13:7:564:LEU:HD12	1.75	0.67
1:A:47:LEU:CD2	1:A:75:THR:HB	2.13	0.67
1:A:100:MET:CG	1:A:104:ASN:HD21	1.99	0.67
2:B:95:THR:OG1	2:B:144:LYS:HG3	1.95	0.67
5:E:328:LEU:HD11	5:E:500:GLN:HG2	1.77	0.67
5:E:559:SER:HB2	5:E:560:GLU:O	1.95	0.67
5:E:564:LEU:HB3	5:E:586:PRO:HB2	1.76	0.67
5:E:620:VAL:HG22	5:E:632:ILE:HD13	1.76	0.67
8:2:257:ALA:HA	8:2:260:LEU:HD12	1.76	0.67
9:3:661:GLN:HA	9:3:664:LYS:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:523:ALA:HA	10:4:526:ILE:HD12	1.77	0.67
11:5:29:LYS:O	11:5:33:ASN:N	2.28	0.67
11:5:349:PHE:HB3	11:5:601:ARG:NH2	2.08	0.67
11:5:439:THR:O	11:5:479:ILE:HA	1.94	0.67
11:5:500:GLN:HB3	11:5:515:SER:O	1.95	0.67
12:6:558:SER:CB	12:6:559:THR:CA	2.73	0.67
13:7:660:VAL:HG22	13:7:713:VAL:HG11	1.76	0.67
1:A:16:THR:HA	1:A:19:LEU:HD12	1.75	0.67
2:B:115:LEU:HD22	2:B:119:TRP:NE1	2.10	0.67
4:D:79:TYR:CE2	4:D:81:HIS:HB3	2.29	0.67
5:E:278:THR:HA	5:E:281:ASP:OD2	1.95	0.67
5:E:612:ILE:HG21	5:E:640:PHE:CD1	2.30	0.67
6:F:21:DT:H5 ⁷	11:5:506:LYS:CD	2.25	0.67
8:2:243:GLU:OE2	8:2:298:SER:OG	2.13	0.67
9:3:100:LEU:CG	9:3:157:PHE:HB3	2.24	0.67
9:3:372:TYR:OH	9:3:564:HIS:HB3	1.95	0.67
10:4:248:LEU:HD22	10:4:254:THR:HB	1.76	0.67
10:4:456:LEU:HB2	13:7:254:ALA:CB	2.25	0.67
10:4:458:LYS:HA	13:7:252:LYS:NZ	2.10	0.67
10:4:826:VAL:O	10:4:830:ARG:HG2	1.95	0.67
12:6:608:LEU:HA	12:6:627:ALA:HB3	1.76	0.67
13:7:357:PRO:HA	13:7:374:THR:CA	2.20	0.67
2:B:184:PHE:CZ	3:C:136:ASN:HB2	2.29	0.67
3:C:112:ILE:HD12	3:C:120:LEU:HD11	1.76	0.67
4:D:137:LYS:HG2	4:D:141:ARG:NH1	2.10	0.67
5:E:5:ILE:HG12	5:E:142:CYS:SG	2.35	0.67
5:E:71:TYR:CD2	5:E:96:LEU:HD22	2.29	0.67
8:2:419:LYS:HG2	8:2:420:PRO:HD2	1.77	0.67
10:4:342:MET:HG3	12:6:417:PRO:HG3	1.76	0.67
10:4:505:ASP:HB2	10:4:746:PHE:HE1	1.60	0.67
10:4:607:ARG:CB	10:4:614:LEU:HD23	2.24	0.67
10:4:727:LEU:N	10:4:728:TYR:HB3	2.10	0.67
11:5:44:PHE:CE1	11:5:47:ARG:HB3	2.30	0.67
11:5:162:LEU:N	11:5:294:ILE:O	2.26	0.67
11:5:175:ARG:HB2	11:5:251:ILE:CG1	2.25	0.67
11:5:181:ILE:HD13	11:5:207:LEU:CD2	2.25	0.67
11:5:455:ARG:HH12	11:5:460:ARG:HD2	1.60	0.67
11:5:525:PRO:CB	11:5:539:ASN:HD21	2.07	0.67
11:5:630:ARG:HE	11:5:648:ILE:HG21	1.60	0.67
5:E:151:THR:HB	5:E:152:LEU:C	2.15	0.66
8:2:486:LYS:O	8:2:489:ARG:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:275:ASP:O	9:3:320:LEU:HB2	1.95	0.66
11:5:75:ILE:O	11:5:79:LEU:N	2.27	0.66
11:5:354:GLU:O	11:5:358:LEU:HG	1.95	0.66
11:5:371:THR:O	11:5:385:LYS:NZ	2.22	0.66
12:6:153:ILE:HD11	12:6:267:PHE:CD1	2.29	0.66
12:6:585:LEU:HD22	12:6:637:CYS:CB	2.25	0.66
12:6:691:ARG:NH1	12:6:716:LEU:HD22	2.09	0.66
13:7:327:ILE:HG23	13:7:328:PRO:HD2	1.76	0.66
13:7:493:LEU:HB2	13:7:513:LEU:CG	2.24	0.66
1:A:107:LEU:HD21	1:A:153:GLY:CA	2.25	0.66
1:A:148:ASP:O	4:D:141:ARG:NH2	2.28	0.66
2:B:50:TRP:N	2:B:51:GLN:HA	2.09	0.66
4:D:98:ILE:CG2	4:D:129:MET:HG2	2.25	0.66
5:E:287:VAL:O	5:E:290:ARG:HG2	1.95	0.66
8:2:246:TYR:CE1	8:2:257:ALA:HB1	2.31	0.66
8:2:322:GLY:HA3	8:2:390:LEU:CD2	2.16	0.66
8:2:501:MET:HE1	8:2:516:ALA:HB2	1.75	0.66
8:2:540:LEU:O	8:2:681:CYS:N	2.28	0.66
9:3:48:TYR:O	9:3:52:ASN:ND2	2.28	0.66
9:3:270:LEU:HD21	11:5:464:LEU:CD2	2.26	0.66
9:3:386:MET:HB3	9:3:714:LYS:CD	2.15	0.66
11:5:677:VAL:HG12	11:5:681:ILE:CD1	2.25	0.66
12:6:551:MET:CA	12:6:635:ILE:HD11	2.24	0.66
13:7:613:ALA:O	13:7:617:THR:HG23	1.95	0.66
1:A:149:ILE:HG23	1:A:151:LEU:HB3	1.77	0.66
2:B:112:PHE:HB3	2:B:152:ARG:NH1	2.10	0.66
4:D:147:ARG:O	4:D:151:ILE:HG12	1.95	0.66
4:D:191:LEU:HA	4:D:194:VAL:CG1	2.25	0.66
5:E:272:LEU:O	5:E:276:GLY:N	2.19	0.66
8:2:338:LYS:O	8:2:375:VAL:HA	1.96	0.66
8:2:484:PHE:HA	8:2:487:ILE:HD12	1.76	0.66
8:2:566:ALA:O	8:2:572:SER:HB2	1.94	0.66
8:2:584:PRO:HB2	8:2:585:ILE:CB	2.26	0.66
9:3:389:VAL:HG23	9:3:714:LYS:CE	2.25	0.66
10:4:656:ILE:HG23	10:4:658:LYS:HG2	1.77	0.66
11:5:46:TYR:OH	11:5:64:ASN:N	2.15	0.66
12:6:558:SER:HB3	12:6:559:THR:CA	2.17	0.66
12:6:773:LEU:HD21	12:6:800:LEU:CD1	2.26	0.66
13:7:493:LEU:HD22	13:7:513:LEU:HD11	1.76	0.66
13:7:519:GLY:O	13:7:562:SER:N	2.27	0.66
2:B:182:ARG:HA	4:D:229:PHE:HZ	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:557:ALA:HA	5:E:560:GLU:CG	2.25	0.66
8:2:584:PRO:HB2	8:2:585:ILE:CG1	2.26	0.66
9:3:110:PHE:CE2	9:3:114:ILE:HD11	2.30	0.66
10:4:581:VAL:HA	10:4:584:ILE:HG12	1.75	0.66
11:5:166:ILE:HA	11:5:258:LEU:HA	1.76	0.66
11:5:439:THR:HA	11:5:444:SER:OG	1.96	0.66
11:5:622:LEU:HD21	11:5:681:ILE:HD11	1.75	0.66
12:6:182:GLN:HA	12:6:185:LEU:HB3	1.78	0.66
13:7:78:VAL:O	13:7:203:TYR:N	2.23	0.66
13:7:240:THR:CG2	13:7:352:THR:HG22	2.25	0.66
1:A:161:VAL:HG21	4:D:127:LEU:HD21	1.76	0.66
3:C:19:LYS:HE3	3:C:73:GLU:HG2	1.78	0.66
3:C:48:LEU:O	3:C:52:ARG:N	2.29	0.66
5:E:92:LEU:HA	5:E:95:PHE:CB	2.16	0.66
9:3:350:ILE:HG13	9:3:659:TYR:HD1	1.61	0.66
10:4:522:LEU:O	10:4:526:ILE:HG13	1.95	0.66
11:5:453:VAL:HB	11:5:506:LYS:HD3	1.75	0.66
12:6:151:ILE:HD13	12:6:153:ILE:CG2	2.24	0.66
12:6:390:LYS:HD2	12:6:391:PRO:HD2	1.77	0.66
1:A:175:GLN:HB2	1:A:180:VAL:HA	1.76	0.66
2:B:7:LEU:CD2	2:B:10:THR:HG23	2.25	0.66
4:D:57:GLN:O	4:D:61:SER:N	2.28	0.66
5:E:51:LYS:NZ	5:E:264:GLU:OE2	2.27	0.66
5:E:522:LEU:HD11	5:E:527:LEU:CD1	2.26	0.66
5:E:581:VAL:HB	5:E:630:ILE:HG13	1.78	0.66
8:2:317:LEU:CA	8:2:429:ILE:HG22	2.26	0.66
9:3:100:LEU:HB2	9:3:160:SER:CB	2.26	0.66
9:3:161:PHE:HB3	9:3:162:GLY:HA3	1.76	0.66
10:4:243:LEU:HD22	10:4:305:PRO:CA	2.25	0.66
10:4:343:LYS:N	10:4:360:ILE:HD13	2.10	0.66
10:4:451:ARG:HE	12:6:445:VAL:HG21	1.60	0.66
10:4:713:ASP:CB	10:4:716:ASN:HB2	2.26	0.66
11:5:84:SER:HA	11:5:87:ILE:CD1	2.26	0.66
12:6:104:ASP:HB3	12:6:176:ARG:HH11	1.60	0.66
13:7:335:VAL:CG1	13:7:340:VAL:HA	2.26	0.66
13:7:529:MET:HE2	13:7:533:ASP:HB3	1.77	0.66
13:7:670:ASP:CA	13:7:673:ARG:HG2	2.22	0.66
1:A:16:THR:HA	1:A:19:LEU:CB	2.23	0.66
1:A:149:ILE:CA	1:A:150:ASP:HB2	2.24	0.66
2:B:148:LEU:HA	2:B:151:ILE:HD11	1.77	0.66
5:E:8:PHE:CB	5:E:258:LEU:HD12	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:92:LEU:HD23	5:E:96:LEU:HD11	1.77	0.66
5:E:137:SER:HA	5:E:140:ILE:HD12	1.76	0.66
9:3:203:ALA:O	9:3:207:GLY:N	2.28	0.66
10:4:226:TYR:O	10:4:230:LEU:N	2.22	0.66
10:4:344:VAL:HG13	10:4:359:GLU:HA	1.78	0.66
10:4:625:ASP:OD1	10:4:668:ARG:N	2.27	0.66
10:4:758:ILE:HD11	10:4:813:LEU:CD2	2.21	0.66
11:5:292:VAL:CG2	11:5:294:ILE:HD11	2.22	0.66
11:5:411:ASN:ND2	11:5:549:ARG:O	2.25	0.66
11:5:568:ILE:HA	11:5:571:HIS:HB3	1.76	0.66
12:6:189:VAL:HG13	12:6:193:ALA:HB3	1.77	0.66
12:6:544:LYS:HA	12:6:547:ILE:HD12	1.77	0.66
12:6:653:HIS:NE2	12:6:704:PRO:HB2	2.09	0.66
13:7:518:ASN:N	13:7:560:ARG:HB2	2.10	0.66
13:7:648:LYS:HB3	13:7:706:ASP:OD1	1.95	0.66
1:A:113:ILE:H	1:A:113:ILE:HD12	1.61	0.66
3:C:18:CYS:HB3	3:C:74:LEU:HD23	1.77	0.66
5:E:316:LEU:CD1	5:E:414:GLY:HA3	2.24	0.66
5:E:470:ARG:NH2	5:E:631:GLU:OE2	2.28	0.66
8:2:246:TYR:N	8:2:298:SER:HB2	2.11	0.66
10:4:281:VAL:HG22	10:4:297:GLU:CG	2.26	0.66
10:4:621:LEU:HD21	10:4:645:LEU:HD21	1.78	0.66
11:5:256:LEU:CD1	11:5:278:CYS:HB2	2.25	0.66
11:5:375:ALA:HA	11:5:378:ILE:HD13	1.77	0.66
11:5:663:LEU:HB3	11:5:676:HIS:NE2	2.10	0.66
12:6:363:GLU:HB3	12:6:374:PRO:CB	2.26	0.66
1:A:149:ILE:HD13	4:D:144:ILE:CD1	2.25	0.66
2:B:51:GLN:HB2	2:B:52:LEU:C	2.17	0.66
3:C:105:PHE:HB2	3:C:172:MET:SD	2.35	0.66
4:D:86:ARG:O	4:D:90:ARG:N	2.27	0.66
4:D:205:GLU:N	4:D:205:GLU:OE1	2.29	0.66
5:E:632:ILE:HG13	5:E:637:LEU:HB3	1.77	0.66
6:F:23:DT:H2'	6:F:23:DT:OP2	1.96	0.66
8:2:777:LYS:HB3	11:5:577:THR:HG21	1.76	0.66
9:3:389:VAL:HB	9:3:710:THR:HG21	1.77	0.66
10:4:437:GLY:HA2	10:4:464:VAL:CG2	2.26	0.66
11:5:43:GLN:NE2	11:5:44:PHE:O	2.25	0.66
11:5:421:ALA:N	14:5:801:ATP:O2B	2.29	0.66
11:5:685:GLN:O	11:5:689:MET:HG2	1.95	0.66
12:6:108:GLY:HA3	12:6:180:PHE:CE2	2.30	0.66
12:6:417:PRO:HG2	12:6:448:LEU:HD21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:533:ILE:CG1	12:6:548:LEU:HD11	2.26	0.66
12:6:656:MET:CB	12:6:708:ARG:HG2	2.19	0.66
12:6:833:GLN:O	12:6:837:ARG:HG3	1.96	0.66
1:A:145:ASP:CA	1:A:146:LEU:HB3	2.25	0.66
2:B:5:ALA:O	2:B:8:GLN:HB3	1.95	0.66
2:B:148:LEU:HA	2:B:151:ILE:CG1	2.25	0.66
5:E:120:ILE:HD13	5:E:139:ILE:CG2	2.26	0.66
8:2:330:VAL:HG21	8:2:416:ASP:HB2	1.78	0.66
8:2:574:VAL:HA	12:6:664:ALA:HB3	1.78	0.66
9:3:231:TYR:CE2	9:3:243:THR:HG22	2.31	0.66
9:3:294:VAL:HG13	9:3:326:VAL:HG22	1.76	0.66
9:3:455:ARG:NH2	9:3:500:ALA:HB3	2.11	0.66
9:3:570:ARG:HA	11:5:613:ARG:NH2	2.11	0.66
10:4:239:SER:OG	10:4:240:ASN:N	2.28	0.66
10:4:308:VAL:HG21	10:4:325:LEU:CB	2.25	0.66
10:4:661:ILE:HG12	12:6:391:PRO:HB2	1.77	0.66
11:5:467:GLY:O	11:5:471:LEU:HG	1.96	0.66
12:6:659:GLN:HG3	12:6:674:ALA:O	1.96	0.66
13:7:374:THR:OG1	13:7:375:TYR:N	2.24	0.66
1:A:196:VAL:HG13	1:A:205:LEU:HD13	1.76	0.65
4:D:198:ILE:HG13	4:D:199:LEU:HG	1.78	0.65
6:F:16:DT:H2"	6:F:17:DT:H5"	1.77	0.65
8:2:274:VAL:HA	8:2:277:GLU:HG2	1.77	0.65
9:3:447:THR:CG2	9:3:455:ARG:HE	2.10	0.65
9:3:680:VAL:HG12	13:7:610:GLU:OE1	1.96	0.65
12:6:802:SER:CA	12:6:805:ARG:HG2	2.23	0.65
13:7:689:LEU:HD12	13:7:692:ILE:CG2	2.25	0.65
1:A:185:LYS:HD2	1:A:186:ASP:N	2.11	0.65
2:B:90:PRO:HD2	2:B:93:LEU:HD13	1.77	0.65
4:D:216:VAL:H	4:D:217:ASN:HB3	1.60	0.65
4:D:269:LEU:HD13	4:D:275:TYR:CD2	2.30	0.65
8:2:562:ARG:HG2	8:2:599:ALA:HB1	1.77	0.65
8:2:581:ARG:CD	8:2:634:ALA:HB2	2.16	0.65
8:2:838:ILE:O	8:2:842:VAL:HG23	1.96	0.65
9:3:445:ALA:HB2	9:3:499:LYS:HD2	1.78	0.65
10:4:203:TYR:O	10:4:207:LYS:NZ	2.19	0.65
10:4:563:ASN:OD1	10:4:671:ILE:N	2.29	0.65
2:B:95:THR:HB	2:B:141:LEU:HG	1.78	0.65
5:E:67:LEU:O	5:E:71:TYR:N	2.28	0.65
5:E:134:ILE:HD11	5:E:144:ASP:OD2	1.96	0.65
10:4:197:PHE:CZ	10:4:248:LEU:HD23	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:339:ILE:HB	10:4:394:LYS:O	1.97	0.65
10:4:758:ILE:HD13	10:4:813:LEU:HA	1.79	0.65
12:6:576:ASP:O	12:6:579:THR:OG1	2.11	0.65
12:6:765:LEU:HB2	12:6:819:ILE:CD1	2.26	0.65
13:7:409:ASP:OD2	13:7:413:ARG:N	2.29	0.65
1:A:166:ARG:NH1	1:A:188:GLN:OE1	2.30	0.65
3:C:27:LEU:HD23	3:C:29:TYR:N	2.09	0.65
4:D:259:THR:HG21	4:D:268:GLU:CB	2.26	0.65
8:2:335:LYS:HB2	8:2:382:TYR:HA	1.78	0.65
8:2:394:PRO:HB2	12:6:672:LEU:HD21	1.78	0.65
8:2:632:SER:O	11:5:448:GLY:HA2	1.96	0.65
8:2:659:SER:HA	10:4:928:ARG:CZ	2.26	0.65
9:3:503:HIS:O	13:7:316:GLN:NE2	2.25	0.65
10:4:770:LEU:HD11	10:4:801:MET:CB	2.25	0.65
11:5:176:ALA:O	11:5:194:ILE:HG12	1.96	0.65
11:5:610:CYS:SG	11:5:665:LYS:HG3	2.36	0.65
12:6:586:LYS:HA	12:6:589:VAL:HG12	1.78	0.65
13:7:512:ALA:O	13:7:516:ALA:N	2.28	0.65
13:7:664:TYR:CD1	13:7:689:LEU:HD22	2.31	0.65
1:A:16:THR:CA	1:A:19:LEU:HB2	2.26	0.65
3:C:86:ASN:HB2	9:3:104:ARG:NH2	2.12	0.65
5:E:25:CYS:CB	5:E:26:GLN:HA	2.09	0.65
5:E:536:LEU:HA	5:E:539:TYR:CD2	2.30	0.65
8:2:562:ARG:NH1	8:2:599:ALA:HA	2.09	0.65
9:3:156:SER:CB	9:3:325:THR:HG22	2.19	0.65
9:3:231:TYR:HE2	9:3:243:THR:HG22	1.61	0.65
9:3:716:ARG:HH22	9:3:724:VAL:HB	1.61	0.65
10:4:330:GLY:HA3	10:4:401:GLU:HA	1.76	0.65
10:4:634:PHE:CZ	10:4:698:LEU:HD11	2.31	0.65
12:6:517:LYS:O	12:6:521:LYS:HG2	1.96	0.65
13:7:689:LEU:HA	13:7:692:ILE:CG2	2.27	0.65
2:B:17:GLN:O	2:B:21:GLU:HG3	1.97	0.65
2:B:21:GLU:HA	2:B:73:LEU:HD23	1.78	0.65
5:E:81:LEU:HD13	5:E:82:LEU:N	2.12	0.65
8:2:548:ALA:HB2	14:2:901:ATP:C5	2.32	0.65
8:2:580:VAL:HG21	8:2:591:LEU:HG	1.77	0.65
8:2:621:HIS:CD2	8:2:673:ILE:HA	2.29	0.65
8:2:624:MET:HG2	8:2:646:ILE:CD1	2.26	0.65
8:2:663:LEU:HA	8:2:666:ASN:CB	2.26	0.65
9:3:367:LEU:HD11	9:3:382:LEU:HD13	1.78	0.65
10:4:332:VAL:HB	10:4:429:ALA:CA	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:442:ILE:HG23	10:4:443:PRO:HD2	1.78	0.65
12:6:355:ASP:CB	12:6:356:TRP:CA	2.75	0.65
13:7:228:ARG:HH22	13:7:327:ILE:H	1.44	0.65
13:7:287:GLU:HA	13:7:290:SER:HB2	1.77	0.65
13:7:659:TYR:CD2	13:7:710:ILE:HD11	2.31	0.65
2:B:185:ILE:H	2:B:185:ILE:HD12	1.62	0.65
3:C:84:VAL:O	3:C:88:ILE:HG23	1.96	0.65
4:D:232:VAL:HA	4:D:291:VAL:HG23	1.79	0.65
4:D:278:ARG:HB2	4:D:281:VAL:HG12	1.78	0.65
5:E:25:CYS:HB3	5:E:26:GLN:CA	2.21	0.65
5:E:536:LEU:HD13	5:E:539:TYR:HD2	1.61	0.65
9:3:405:ILE:HG23	9:3:545:LEU:O	1.97	0.65
9:3:408:VAL:HG13	9:3:548:VAL:HA	1.79	0.65
10:4:407:PRO:HG2	10:4:410:GLN:HB3	1.79	0.65
11:5:144:ASN:H	11:5:161:ARG:NH1	1.94	0.65
12:6:178:LEU:N	12:6:179:PRO:HD2	2.12	0.65
12:6:711:LEU:HD23	12:6:834:SER:CB	2.24	0.65
12:6:751:LEU:O	12:6:755:ILE:HG13	1.97	0.65
13:7:444:VAL:CG2	13:7:448:MET:H	2.10	0.65
13:7:491:VAL:HA	13:7:494:THR:HG22	1.78	0.65
13:7:605:SER:HB2	13:7:608:ASP:HB2	1.78	0.65
1:A:9:LEU:O	1:A:13:ALA:N	2.27	0.65
8:2:323:VAL:N	8:2:391:GLN:O	2.29	0.65
8:2:546:GLY:HA2	12:6:798:ARG:NH1	2.12	0.65
9:3:237:GLU:OE1	9:3:237:GLU:N	2.20	0.65
9:3:407:MET:SD	9:3:418:LEU:HD23	2.36	0.65
9:3:730:ALA:O	9:3:734:ARG:HG2	1.97	0.65
10:4:419:VAL:CB	10:4:463:VAL:HG21	2.26	0.65
10:4:695:PRO:HG2	10:4:698:LEU:CB	2.26	0.65
11:5:151:LEU:HB3	11:5:298:TYR:CE1	2.31	0.65
11:5:464:LEU:HD21	11:5:466:GLY:HA2	1.79	0.65
11:5:594:ILE:CG2	11:5:599:MET:HB2	2.27	0.65
12:6:531:ARG:HG3	12:6:745:PRO:CD	2.27	0.65
12:6:696:ARG:NE	12:6:703:ALA:HB2	2.12	0.65
12:6:778:LYS:HG2	12:6:782:LYS:NZ	2.12	0.65
13:7:149:ARG:HG3	13:7:153:MET:HE3	1.79	0.65
13:7:429:LYS:HA	13:7:432:LEU:HD12	1.78	0.65
2:B:50:TRP:N	2:B:51:GLN:OE1	2.30	0.65
2:B:125:ILE:HA	2:B:128:ASN:OD1	1.97	0.65
3:C:98:HIS:HA	3:C:102:SER:CB	2.27	0.65
4:D:171:LEU:O	4:D:180:ILE:HG21	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:75:ASP:CB	5:E:118:ARG:HH12	2.09	0.65
5:E:529:VAL:HG23	5:E:570:ALA:HB3	1.79	0.65
8:2:424:VAL:CG2	8:2:456:ILE:HG23	2.27	0.65
10:4:291:TYR:HB3	10:4:296:ILE:HG21	1.77	0.65
10:4:564:ILE:HG23	10:4:704:LEU:O	1.96	0.65
12:6:571:ILE:O	12:6:679:LEU:HG	1.97	0.65
12:6:633:ASN:N	12:6:675:ARG:O	2.21	0.65
12:6:791:SER:CB	12:6:838:VAL:HB	2.27	0.65
13:7:77:SER:HB3	13:7:338:THR:CB	2.26	0.65
13:7:138:VAL:HA	13:7:141:VAL:HG22	1.79	0.65
2:B:122:LEU:O	2:B:126:LEU:N	2.21	0.65
5:E:259:LEU:HD23	5:E:264:GLU:O	1.97	0.65
8:2:242:LEU:O	8:2:295:VAL:HA	1.97	0.65
8:2:579:SER:CA	8:2:633:LYS:HD2	2.24	0.65
10:4:441:SER:CB	10:4:459:THR:HG22	2.26	0.65
10:4:649:MET:CE	10:4:701:ARG:HG2	2.27	0.65
10:4:712:VAL:HG13	13:7:668:ARG:HG3	1.78	0.65
10:4:798:LEU:HA	10:4:801:MET:CE	2.25	0.65
10:4:830:ARG:HD3	10:4:833:ILE:CD1	2.26	0.65
1:A:168:LEU:HD11	1:A:206:GLN:CG	2.27	0.64
2:B:101:LYS:O	2:B:105:GLU:N	2.30	0.64
2:B:127:PHE:CE2	2:B:142:ARG:HG2	2.32	0.64
5:E:122:VAL:O	5:E:143:PHE:HB2	1.96	0.64
8:2:208:ALA:HA	8:2:211:LEU:CG	2.27	0.64
9:3:413:THR:HG21	9:3:549:VAL:HG21	1.79	0.64
10:4:564:ILE:HG12	10:4:704:LEU:HB3	1.78	0.64
10:4:631:ILE:HB	10:4:673:ALA:CA	2.26	0.64
10:4:824:GLU:HA	10:4:827:ARG:CB	2.24	0.64
11:5:420:THR:CG2	11:5:556:VAL:HG21	2.28	0.64
12:6:335:ASN:N	12:6:336:PRO:HA	2.12	0.64
12:6:542:ALA:HA	12:6:545:LYS:NZ	2.12	0.64
13:7:440:VAL:HG21	13:7:649:ARG:HA	1.79	0.64
13:7:546:ILE:N	13:7:557:LEU:O	2.30	0.64
13:7:601:LEU:HD12	13:7:601:LEU:O	1.97	0.64
1:A:165:VAL:HG11	1:A:205:LEU:CB	2.27	0.64
4:D:66:SER:O	4:D:70:GLU:N	2.30	0.64
6:F:23:DT:H1'	6:F:24:DT:N3	2.12	0.64
8:2:216:LEU:HD12	8:2:217:GLU:HB3	1.77	0.64
8:2:496:LYS:HG2	8:2:758:ILE:HD12	1.80	0.64
8:2:584:PRO:CB	8:2:585:ILE:HB	2.27	0.64
10:4:717:ASP:HA	10:4:720:LEU:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:179:LEU:HD13	11:5:181:ILE:HG13	1.79	0.64
11:5:639:GLU:HB2	11:5:641:THR:HG23	1.79	0.64
12:6:303:GLU:HB2	12:6:356:TRP:CD1	2.32	0.64
12:6:550:GLN:HA	12:6:569:ILE:HG21	1.78	0.64
12:6:733:ASP:HA	12:6:736:MET:HG2	1.78	0.64
3:C:7:ASP:HA	3:C:10:LEU:HB3	1.78	0.64
3:C:104:PHE:O	3:C:108:ALA:N	2.26	0.64
3:C:118:LYS:NZ	3:C:122:ASN:HB2	2.13	0.64
4:D:132:GLU:HA	4:D:135:ARG:HH22	1.61	0.64
5:E:150:ASP:N	5:E:151:THR:HA	2.10	0.64
5:E:288:TYR:HA	5:E:291:LEU:CG	2.27	0.64
5:E:328:LEU:HD13	5:E:500:GLN:HG2	1.79	0.64
5:E:360:HIS:HB2	8:2:236:GLU:CG	2.26	0.64
5:E:553:ILE:HD12	5:E:567:MET:HG2	1.79	0.64
8:2:230:ARG:NH1	8:2:243:GLU:O	2.30	0.64
8:2:299:ASP:HA	8:2:319:ARG:NH2	2.11	0.64
8:2:501:MET:HE3	8:2:516:ALA:HB2	1.78	0.64
8:2:858:ARG:HA	8:2:861:PHE:CE2	2.33	0.64
9:3:211:TYR:HD2	13:7:6:PRO:HG2	1.62	0.64
10:4:323:ASP:O	10:4:324:LYS:HG3	1.98	0.64
10:4:334:ARG:HH11	10:4:398:LYS:HD3	1.61	0.64
10:4:401:GLU:OE1	10:4:401:GLU:N	2.23	0.64
10:4:600:GLY:HA2	10:4:604:TYR:CE1	2.32	0.64
10:4:722:LYS:HA	10:4:725:THR:HB	1.78	0.64
11:5:181:ILE:HD13	11:5:207:LEU:HD21	1.79	0.64
11:5:437:VAL:HG23	11:5:472:ALA:HB2	1.79	0.64
13:7:656:VAL:O	13:7:660:VAL:HG23	1.96	0.64
4:D:195:ASN:CA	4:D:199:LEU:HD12	2.25	0.64
4:D:267:VAL:HB	4:D:268:GLU:CA	2.27	0.64
4:D:267:VAL:CB	4:D:268:GLU:HA	2.26	0.64
5:E:49:PHE:O	5:E:53:LEU:N	2.30	0.64
5:E:57:GLN:HG3	5:E:59:VAL:HG23	1.79	0.64
5:E:149:ASP:H	5:E:150:ASP:HA	1.62	0.64
8:2:219:THR:HB	8:2:223:GLY:CA	2.27	0.64
8:2:520:PHE:CE2	8:2:822:LYS:HB2	2.24	0.64
8:2:581:ARG:HG2	8:2:634:ALA:N	2.12	0.64
9:3:557:ARG:O	9:3:561:ILE:HG12	1.98	0.64
10:4:399:LEU:O	10:4:415:ILE:N	2.30	0.64
11:5:594:ILE:HG12	11:5:599:MET:CE	2.28	0.64
12:6:570:ASN:HD21	12:6:678:ILE:HB	1.62	0.64
12:6:695:LEU:HA	12:6:698:ASN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:370:LEU:HD12	13:7:372:THR:HA	1.78	0.64
13:7:426:LEU:O	13:7:430:LYS:N	2.29	0.64
1:A:9:LEU:HD21	1:A:89:TYR:CD1	2.32	0.64
1:A:22:ARG:CB	1:A:23:SER:HA	2.18	0.64
2:B:10:THR:HA	2:B:182:ARG:NH1	2.12	0.64
5:E:285:ALA:CB	5:E:288:TYR:HB3	2.28	0.64
5:E:473:TRP:CH2	5:E:541:ASN:HA	2.33	0.64
8:2:488:SER:HB2	8:2:825:LEU:CD1	2.25	0.64
8:2:580:VAL:CG2	8:2:591:LEU:HG	2.28	0.64
9:3:45:ILE:HG22	9:3:49:ASN:HD21	1.63	0.64
10:4:532:GLU:HG2	10:4:533:LEU:H	1.60	0.64
11:5:146:ILE:HG23	11:5:147:PRO:HD2	1.79	0.64
11:5:389:VAL:HA	11:5:392:LEU:CG	2.27	0.64
11:5:546:ILE:HG22	11:5:550:PHE:CE2	2.33	0.64
12:6:284:ILE:HA	12:6:401:GLU:OE1	1.96	0.64
12:6:361:ILE:HD12	12:6:397:PHE:CE2	2.32	0.64
12:6:695:LEU:HB2	12:6:838:VAL:HA	1.79	0.64
3:C:192:PHE:CZ	11:5:43:GLN:HB2	2.32	0.64
4:D:264:LYS:HG2	4:D:265:GLU:N	2.13	0.64
5:E:8:PHE:CE2	5:E:254:GLN:HB3	2.33	0.64
5:E:472:ARG:O	5:E:476:ASN:N	2.27	0.64
5:E:580:LEU:HD11	5:E:629:ILE:HD11	1.77	0.64
8:2:271:PHE:HE2	8:2:295:VAL:HG11	1.63	0.64
9:3:254:GLN:CB	9:3:278:LEU:HB2	2.27	0.64
9:3:437:SER:CB	9:3:438:SER:HA	2.19	0.64
10:4:419:VAL:CG1	10:4:463:VAL:HG21	2.27	0.64
10:4:601:LEU:HA	10:4:620:ALA:HB3	1.80	0.64
10:4:767:LYS:HD3	12:6:736:MET:SD	2.36	0.64
11:5:254:GLN:HB3	11:5:278:CYS:HB2	1.79	0.64
12:6:598:THR:HG23	12:6:638:ILE:HG23	1.80	0.64
12:6:638:ILE:HG22	12:6:639:ASP:N	2.12	0.64
12:6:796:THR:HG22	12:6:798:ARG:N	2.13	0.64
5:E:41:ALA:HB1	5:E:255:ILE:HD13	1.80	0.64
5:E:298:GLU:OE1	5:E:301:ARG:NH1	2.30	0.64
8:2:242:LEU:HD22	8:2:295:VAL:HG12	1.80	0.64
8:2:546:GLY:HA2	12:6:798:ARG:HH12	1.61	0.64
8:2:604:CYS:SG	8:2:646:ILE:HG23	2.38	0.64
9:3:450:ARG:O	9:3:456:ARG:NH1	2.31	0.64
9:3:683:TYR:HA	9:3:686:LEU:HD12	1.78	0.64
10:4:184:ASN:HB3	13:7:145:GLN:HE22	1.61	0.64
10:4:190:CYS:SG	10:4:257:LEU:HD13	2.37	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:608:ASP:HB2	10:4:615:VAL:HG23	1.79	0.64
11:5:411:ASN:CB	11:5:550:PHE:HA	2.27	0.64
12:6:134:LYS:HZ2	12:6:137:ARG:HD2	1.63	0.64
12:6:164:GLY:O	12:6:168:MET:N	2.29	0.64
12:6:292:GLY:HA3	12:6:361:ILE:HD11	1.80	0.64
12:6:310:THR:C	12:6:345:THR:H	2.00	0.64
12:6:586:LYS:HA	12:6:589:VAL:CG1	2.28	0.64
12:6:611:ALA:H	12:6:624:GLU:HG2	1.62	0.64
13:7:518:ASN:HB2	13:7:560:ARG:NE	2.11	0.64
8:2:500:SER:HA	8:2:757:PRO:HB3	1.79	0.64
8:2:794:ARG:HG3	8:2:805:ILE:CG2	2.16	0.64
9:3:554:ASN:HB2	9:3:557:ARG:CG	2.28	0.64
10:4:418:CYS:O	10:4:419:VAL:HG22	1.97	0.64
10:4:601:LEU:HD23	10:4:621:LEU:HD11	1.79	0.64
10:4:608:ASP:HB2	10:4:615:VAL:CG2	2.28	0.64
10:4:747:LEU:HD12	10:4:748:THR:N	2.12	0.64
11:5:366:LEU:O	11:5:370:LEU:HD13	1.98	0.64
11:5:608:LEU:HD11	11:5:609:LYS:NZ	2.12	0.64
12:6:112:ARG:O	12:6:116:GLU:N	2.19	0.64
12:6:336:PRO:CB	12:6:337:SER:HA	2.27	0.64
12:6:357:GLN:HG3	12:6:381:LEU:HD12	1.80	0.64
13:7:288:GLU:O	13:7:292:ASN:ND2	2.31	0.64
13:7:490:GLY:HA2	13:7:493:LEU:CG	2.27	0.64
1:A:22:ARG:HB3	1:A:23:SER:CA	2.26	0.64
2:B:91:GLN:OE1	2:B:91:GLN:N	2.31	0.64
4:D:76:LEU:HD11	4:D:147:ARG:HE	1.63	0.64
5:E:60:PRO:HG3	5:E:478:TRP:NE1	2.13	0.64
5:E:83:LEU:HD21	5:E:86:PHE:HB2	1.80	0.64
5:E:323:ASP:O	5:E:406:ARG:N	2.28	0.64
5:E:413:LEU:CG	5:E:416:ARG:HB2	2.28	0.64
5:E:626:GLU:HB3	5:E:629:ILE:CG2	2.28	0.64
8:2:335:LYS:HG2	8:2:381:VAL:HG12	1.80	0.64
9:3:163:ALA:H	9:3:164:HIS:CB	2.11	0.64
9:3:186:VAL:HG12	9:3:189:THR:OG1	1.98	0.64
9:3:234:GLU:H	9:3:241:LEU:HG	1.61	0.64
9:3:235:ASP:HB3	9:3:241:LEU:HD11	1.78	0.64
10:4:714:GLU:CA	10:4:715:LYS:HB3	2.28	0.64
11:5:136:GLN:HE22	11:5:282:LEU:HG	1.63	0.64
13:7:393:LEU:HA	13:7:394:THR:CB	2.25	0.64
13:7:665:ILE:HA	13:7:668:ARG:HB3	1.80	0.64
4:D:200:LYS:H	4:D:201:TYR:C	2.01	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:202:MET:CG	4:D:207:GLN:HA	2.28	0.64
5:E:424:PHE:CE2	5:E:428:LEU:HD11	2.32	0.64
8:2:496:LYS:HA	8:2:499:SER:CB	2.27	0.64
8:2:776:PRO:HD2	8:2:822:LYS:HE2	1.78	0.64
9:3:338:ALA:N	9:3:339:ARG:HA	2.13	0.64
9:3:408:VAL:O	9:3:549:VAL:N	2.31	0.64
10:4:550:LYS:O	10:4:557:ARG:N	2.26	0.64
10:4:774:TYR:HA	10:4:777:MET:CG	2.28	0.64
11:5:177:THR:HG23	11:5:251:ILE:HG23	1.80	0.64
12:6:118:PHE:CD1	12:6:161:ARG:HD3	2.32	0.64
12:6:570:ASN:HB2	12:6:709:PHE:HA	1.80	0.64
12:6:777:TYR:CD1	12:6:800:LEU:HB2	2.33	0.64
13:7:363:PHE:CD1	13:7:366:LEU:HD22	2.33	0.64
1:A:67:VAL:HG11	3:C:25:PRO:CD	2.22	0.63
5:E:154:GLU:O	5:E:157:GLU:HG2	1.98	0.63
5:E:545:LEU:O	5:E:549:GLY:N	2.20	0.63
5:E:637:LEU:HD12	5:E:638:SER:N	2.12	0.63
8:2:335:LYS:HD3	8:2:383:ARG:HB3	1.80	0.63
8:2:539:VAL:O	8:2:648:ALA:N	2.31	0.63
8:2:584:PRO:O	8:2:588:GLU:HA	1.97	0.63
8:2:626:GLN:HA	11:5:427:LYS:HZ3	1.63	0.63
8:2:759:PRO:HG2	8:2:762:LEU:HG	1.78	0.63
9:3:192:VAL:HG21	9:3:283:VAL:HG13	1.80	0.63
9:3:467:ARG:HG3	13:7:324:VAL:CG1	2.27	0.63
11:5:300:ILE:HG22	11:5:324:ARG:CB	2.27	0.63
11:5:369:ILE:HG12	11:5:594:ILE:CD1	2.28	0.63
12:6:640:GLU:HA	12:6:682:ALA:CB	2.29	0.63
13:7:656:VAL:HA	13:7:710:ILE:HD13	1.79	0.63
1:A:102:TRP:HH2	4:D:148:LEU:HD13	1.63	0.63
5:E:34:LEU:CD1	5:E:543:LEU:HD21	2.28	0.63
5:E:70:HIS:HA	5:E:73:GLN:HB3	1.81	0.63
5:E:287:VAL:O	5:E:291:LEU:HG	1.99	0.63
5:E:431:LEU:O	5:E:476:ASN:ND2	2.30	0.63
8:2:230:ARG:NH1	8:2:243:GLU:HB3	2.13	0.63
8:2:399:PRO:HB3	12:6:630:LEU:HA	1.80	0.63
8:2:705:ARG:HB2	12:6:559:THR:CG2	2.27	0.63
9:3:196:LEU:H	13:7:372:THR:HG23	1.63	0.63
9:3:339:ARG:CB	9:3:340:GLN:HA	2.22	0.63
11:5:172:LEU:HB3	11:5:252:ASP:OD2	1.97	0.63
11:5:654:GLU:HA	11:5:657:ILE:CD1	2.25	0.63
12:6:288:LEU:HG	12:6:290:ILE:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:348:ILE:HG22	13:7:384:HIS:CD2	2.33	0.63
13:7:543:GLN:O	13:7:545:THR:N	2.32	0.63
13:7:618:TYR:HE2	13:7:625:GLN:HA	1.63	0.63
2:B:121:VAL:HG13	3:C:190:TRP:CZ2	2.32	0.63
2:B:140:GLU:CG	2:B:141:LEU:HD12	2.28	0.63
3:C:27:LEU:HG	3:C:38:ILE:CD1	2.24	0.63
3:C:55:ALA:HA	3:C:71:PHE:H	1.63	0.63
5:E:41:ALA:HB1	5:E:255:ILE:CD1	2.29	0.63
5:E:78:ILE:HB	5:E:118:ARG:CZ	2.27	0.63
5:E:380:MET:HB2	5:E:385:LYS:CE	2.25	0.63
5:E:571:SER:O	5:E:579:TYR:HA	1.98	0.63
9:3:95:ARG:NH1	9:3:282:LEU:HD21	2.13	0.63
9:3:130:THR:HG22	9:3:153:TRP:CD1	2.33	0.63
10:4:189:GLU:HA	10:4:192:THR:CG2	2.28	0.63
10:4:344:VAL:HG22	10:4:359:GLU:CB	2.28	0.63
10:4:521:LEU:HD21	10:4:741:VAL:HG11	1.80	0.63
10:4:564:ILE:CG1	10:4:704:LEU:HB3	2.27	0.63
10:4:727:LEU:HA	10:4:728:TYR:C	2.17	0.63
10:4:802:ILE:HG13	10:4:803:ARG:N	2.13	0.63
11:5:673:GLN:HB2	11:5:676:HIS:HB3	1.79	0.63
12:6:669:HIS:HE1	12:6:671:THR:HG23	1.64	0.63
12:6:794:ARG:N	12:6:795:ILE:HA	2.11	0.63
13:7:358:ALA:HB2	13:7:375:TYR:CE2	2.30	0.63
1:A:130:TYR:CD1	4:D:189:ILE:HG13	2.34	0.63
3:C:139:ALA:HB1	3:C:184:TYR:CE2	2.33	0.63
5:E:291:LEU:HD22	5:E:294:LEU:HD12	1.80	0.63
5:E:557:ALA:HA	5:E:560:GLU:CB	2.28	0.63
6:F:22:DT:H3'	6:F:23:DT:H72	1.79	0.63
8:2:572:SER:HA	12:6:663:ILE:HA	1.81	0.63
9:3:96:ILE:O	9:3:155:LEU:HA	1.98	0.63
9:3:377:ILE:HG12	9:3:547:PHE:CD2	2.33	0.63
10:4:683:ASN:ND2	10:4:686:LEU:HD22	2.14	0.63
10:4:712:VAL:HG22	13:7:672:LYS:HZ2	1.61	0.63
10:4:809:ALA:HB2	10:4:817:VAL:HG23	1.79	0.63
12:6:357:GLN:HE21	12:6:381:LEU:HD12	1.62	0.63
12:6:400:VAL:HG22	12:6:457:CYS:SG	2.39	0.63
12:6:703:ALA:N	12:6:704:PRO:HD2	2.13	0.63
13:7:411:TYR:CE2	13:7:430:LYS:HE2	2.32	0.63
1:A:83:LYS:HE2	4:D:206:LEU:HB3	1.81	0.63
2:B:59:ALA:CB	2:B:60:LEU:HB2	2.24	0.63
5:E:536:LEU:HD13	5:E:539:TYR:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:323:VAL:HG23	8:2:393:ALA:CA	2.29	0.63
8:2:543:GLY:HA3	8:2:549:LYS:NZ	2.13	0.63
9:3:191:LEU:HD21	13:7:329:ARG:NH1	2.13	0.63
9:3:472:ILE:HB	9:3:514:ALA:HA	1.81	0.63
10:4:714:GLU:HB3	10:4:715:LYS:CB	2.28	0.63
11:5:357:PHE:HE1	11:5:598:LYS:HE2	1.62	0.63
11:5:526:ILE:HB	11:5:527:TYR:CD2	2.33	0.63
12:6:120:GLU:OE2	12:6:191:LYS:NZ	2.31	0.63
12:6:594:ARG:NH1	12:6:632:ASP:O	2.30	0.63
1:A:107:LEU:HD21	1:A:153:GLY:N	2.14	0.63
1:A:173:GLU:CA	1:A:183:LEU:HD23	2.29	0.63
2:B:25:ILE:HD12	2:B:87:ILE:CD1	2.29	0.63
2:B:119:TRP:HA	2:B:122:LEU:HG	1.78	0.63
3:C:51:ALA:HA	3:C:54:LEU:CG	2.29	0.63
5:E:33:CYS:SG	5:E:34:LEU:N	2.72	0.63
5:E:131:LEU:HD21	5:E:240:TYR:HD2	1.64	0.63
5:E:346:ALA:CB	5:E:555:CYS:HA	2.21	0.63
8:2:338:LYS:HB3	8:2:380:THR:HG22	1.81	0.63
9:3:189:THR:HA	9:3:256:ILE:HG22	1.81	0.63
9:3:259:GLN:HA	9:3:273:SER:HA	1.79	0.63
9:3:543:PHE:HD2	9:3:546:LEU:HD21	1.63	0.63
10:4:243:LEU:CG	10:4:244:ASP:H	2.11	0.63
10:4:774:TYR:OH	10:4:778:ARG:NH2	2.30	0.63
12:6:182:GLN:O	12:6:186:ARG:N	2.22	0.63
12:6:546:GLY:HA2	12:6:549:LEU:HD12	1.80	0.63
13:7:319:SER:HA	13:7:322:VAL:CG2	2.29	0.63
13:7:434:LEU:HD11	13:7:699:LEU:HD21	1.81	0.63
1:A:27:VAL:HG13	1:A:28:ASN:N	2.12	0.63
1:A:46:ASN:O	1:A:50:ASN:ND2	2.32	0.63
1:A:105:ASN:HB3	1:A:110:MET:SD	2.39	0.63
1:A:110:MET:HE3	1:A:112:SER:HA	1.80	0.63
1:A:182:ASN:CG	5:E:74:LEU:HB3	2.19	0.63
1:A:184:ILE:HD11	5:E:73:GLN:NE2	2.12	0.63
2:B:99:ASP:O	2:B:102:ILE:HG12	1.98	0.63
2:B:107:THR:HG23	2:B:108:HIS:ND1	2.14	0.63
2:B:173:LEU:HG	2:B:178:ILE:HG13	1.81	0.63
4:D:170:SER:HB3	4:D:175:LEU:HD22	1.80	0.63
5:E:78:ILE:HB	5:E:118:ARG:NH2	2.14	0.63
5:E:297:ASP:HA	5:E:300:LYS:HE3	1.81	0.63
5:E:551:TRP:CE3	5:E:552:LEU:HD12	2.32	0.63
8:2:331:PHE:O	8:2:385:TYR:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:622:GLU:OE2	8:2:626:GLN:NE2	2.31	0.63
8:2:637:VAL:HG11	11:5:471:LEU:HD11	1.81	0.63
10:4:594:LYS:CG	10:4:636:LYS:HG2	2.29	0.63
12:6:640:GLU:HA	12:6:682:ALA:CA	2.28	0.63
12:6:652:ILE:O	12:6:656:MET:HG2	1.97	0.63
13:7:228:ARG:HE	13:7:329:ARG:HG3	1.63	0.63
4:D:127:LEU:O	4:D:131:THR:N	2.30	0.63
5:E:416:ARG:NH2	11:5:41:ASP:O	2.32	0.63
6:F:4:DG:H2''	6:F:5:DA:H5'	1.79	0.63
8:2:790:TYR:O	8:2:793:LEU:N	2.30	0.63
9:3:480:ASP:HA	9:3:483:ARG:HD2	1.81	0.63
10:4:280:MET:O	10:4:284:ILE:HD12	1.98	0.63
10:4:314:MET:O	10:4:317:LEU:HG	1.99	0.63
10:4:441:SER:C	10:4:442:ILE:HD12	2.19	0.63
10:4:505:ASP:O	10:4:509:ILE:HD12	1.98	0.63
11:5:152:ASP:CB	11:5:154:GLU:HG2	2.29	0.63
12:6:136:TYR:O	12:6:140:ILE:HD12	1.99	0.63
12:6:610:ALA:HA	12:6:624:GLU:HG3	1.81	0.63
12:6:805:ARG:HA	12:6:808:GLU:HB2	1.80	0.63
2:B:122:LEU:O	2:B:126:LEU:HG	1.99	0.63
8:2:328:THR:O	8:2:386:GLN:NE2	2.25	0.63
9:3:21:PHE:CE1	9:3:123:PRO:HB2	2.34	0.63
9:3:164:HIS:O	9:3:180:VAL:HG13	1.98	0.63
9:3:277:ILE:HB	9:3:322:LEU:CD2	2.28	0.63
9:3:482:ASP:O	9:3:486:ILE:HG13	1.99	0.63
10:4:437:GLY:HA2	10:4:464:VAL:CB	2.28	0.63
10:4:501:ILE:CG2	10:4:749:MET:HE3	2.28	0.63
11:5:379:PHE:HB2	11:5:568:ILE:HD13	1.81	0.63
12:6:115:PHE:O	12:6:119:LEU:N	2.23	0.63
12:6:185:LEU:HD23	12:6:189:VAL:HG23	1.81	0.63
12:6:355:ASP:HB2	12:6:356:TRP:HB3	1.81	0.63
12:6:695:LEU:O	12:6:699:LEU:HD13	1.99	0.63
1:A:84:ARG:HA	1:A:87:LEU:HD12	1.81	0.62
3:C:112:ILE:HG23	3:C:113:MET:HE2	1.79	0.62
8:2:542:LEU:HD11	8:2:652:PRO:HG3	1.81	0.62
8:2:554:LYS:HA	8:2:557:GLU:HG3	1.81	0.62
8:2:565:PHE:HA	8:2:605:LEU:HB2	1.80	0.62
8:2:850:LYS:HG2	8:2:851:VAL:H	1.64	0.62
9:3:130:THR:HG22	9:3:153:TRP:HB2	1.79	0.62
9:3:132:LEU:HD12	9:3:135:SER:OG	1.99	0.62
9:3:194:PRO:CG	13:7:374:THR:HG22	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:480:ASP:HA	9:3:483:ARG:CD	2.28	0.62
10:4:693:ASP:CG	10:4:694:LEU:H	2.01	0.62
1:A:162:PHE:HA	1:A:192:ARG:HA	1.81	0.62
3:C:172:MET:O	3:C:176:ILE:HG23	1.98	0.62
4:D:132:GLU:HA	4:D:135:ARG:NH2	2.14	0.62
5:E:9:SER:O	5:E:13:ASN:N	2.29	0.62
5:E:96:LEU:CB	5:E:98:ILE:HD13	2.29	0.62
5:E:271:TRP:CE2	5:E:275:LEU:HD21	2.33	0.62
8:2:585:ILE:HA	8:2:586:THR:CG2	2.29	0.62
8:2:789:VAL:O	8:2:793:LEU:HD13	1.99	0.62
9:3:360:PHE:CD1	9:3:715:VAL:HG11	2.34	0.62
10:4:304:ARG:NH2	10:4:422:GLU:HB2	2.13	0.62
11:5:86:ILE:CG2	11:5:89:LEU:HD12	2.25	0.62
11:5:302:ASN:OD1	11:5:324:ARG:HG2	1.99	0.62
11:5:605:TYR:CE2	11:5:609:LYS:HG3	2.35	0.62
12:6:516:LEU:O	12:6:520:VAL:N	2.28	0.62
12:6:733:ASP:HA	12:6:736:MET:CG	2.28	0.62
12:6:752:ARG:HA	12:6:755:ILE:CD1	2.28	0.62
12:6:806:LEU:HD11	12:6:831:LEU:CG	2.29	0.62
13:7:409:ASP:OD2	13:7:412:ASN:HB3	1.99	0.62
1:A:93:ARG:O	1:A:97:LEU:HG	1.99	0.62
1:A:165:VAL:HG13	1:A:206:GLN:H	1.64	0.62
3:C:83:LYS:HA	3:C:86:ASN:HD21	1.64	0.62
3:C:170:GLU:HB3	3:C:173:GLU:HB3	1.81	0.62
4:D:87:LEU:HA	4:D:90:ARG:HB3	1.81	0.62
4:D:188:LEU:O	4:D:192:LYS:HG2	1.99	0.62
5:E:351:TRP:HB2	5:E:511:VAL:HG13	1.81	0.62
5:E:503:GLN:O	5:E:507:PHE:N	2.31	0.62
8:2:806:THR:HG22	8:2:808:ARG:H	1.65	0.62
9:3:409:GLY:O	9:3:518:PRO:HD3	1.99	0.62
10:4:419:VAL:HG23	10:4:424:VAL:HG22	1.81	0.62
10:4:773:ALA:O	10:4:777:MET:HG2	1.99	0.62
12:6:810:ILE:HD11	12:6:827:ALA:CB	2.24	0.62
1:A:130:TYR:CD2	4:D:193:LEU:HD22	2.34	0.62
1:A:172:GLY:HA3	1:A:183:LEU:HB2	1.81	0.62
8:2:554:LYS:HE2	12:6:658:GLN:HE22	1.63	0.62
9:3:427:SER:O	9:3:428:LEU:HB2	1.98	0.62
9:3:446:VAL:O	9:3:447:THR:HG23	1.98	0.62
10:4:271:ILE:O	10:4:275:THR:HG23	1.99	0.62
11:5:180:SER:OG	11:5:247:SER:OG	2.16	0.62
11:5:438:TYR:HA	11:5:478:CYS:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:304:LEU:HA	12:6:353:PHE:CD1	2.35	0.62
12:6:511:ASP:OD1	12:6:514:ASN:ND2	2.31	0.62
12:6:570:ASN:ND2	12:6:678:ILE:HB	2.14	0.62
13:7:94:LEU:CA	13:7:95:GLN:HB2	2.30	0.62
13:7:154:LEU:CD1	13:7:189:THR:HG23	2.28	0.62
13:7:397:VAL:CG1	13:7:640:GLU:HG2	2.28	0.62
13:7:485:GLY:H	13:7:525:GLU:HB2	1.64	0.62
1:A:158:PRO:HG3	4:D:135:ARG:HA	1.82	0.62
2:B:97:GLU:O	2:B:100:ARG:HG2	2.00	0.62
2:B:111:ARG:O	2:B:155:LYS:NZ	2.33	0.62
2:B:157:LEU:HA	2:B:160:LEU:HB3	1.80	0.62
3:C:95:LEU:O	3:C:131:ARG:NH2	2.32	0.62
3:C:162:THR:N	3:C:163:SER:HA	2.12	0.62
3:C:181:HIS:CD2	3:C:185:LYS:HD2	2.34	0.62
5:E:31:VAL:HG11	5:E:477:PHE:CZ	2.34	0.62
5:E:157:GLU:O	5:E:161:LYS:HB2	1.99	0.62
5:E:297:ASP:HA	5:E:300:LYS:CE	2.30	0.62
5:E:473:TRP:CH2	5:E:542:PRO:HD3	2.35	0.62
5:E:634:ARG:HA	5:E:637:LEU:CG	2.28	0.62
8:2:617:ARG:HA	8:2:620:ILE:HG13	1.80	0.62
9:3:182:VAL:N	9:3:294:VAL:O	2.22	0.62
10:4:198:LEU:HD11	10:4:230:LEU:HD12	1.82	0.62
10:4:230:LEU:CD2	10:4:283:LEU:HD22	2.28	0.62
10:4:370:ARG:HB2	10:4:371:CYS:CB	2.21	0.62
10:4:559:ARG:NH2	10:4:668:ARG:HD3	2.15	0.62
11:5:44:PHE:CD1	11:5:47:ARG:HB3	2.35	0.62
11:5:409:ASP:H	11:5:518:SER:HB3	1.64	0.62
12:6:598:THR:CG2	12:6:638:ILE:HG23	2.30	0.62
12:6:616:GLU:H	12:6:617:GLU:HA	1.64	0.62
13:7:138:VAL:HG22	13:7:139:LEU:H	1.62	0.62
13:7:246:THR:N	13:7:314:LYS:O	2.32	0.62
13:7:466:LYS:HE2	13:7:600:MET:SD	2.40	0.62
13:7:489:SER:HB2	13:7:491:VAL:HG12	1.80	0.62
13:7:650:PRO:HA	13:7:706:ASP:CB	2.29	0.62
1:A:115:PHE:O	1:A:118:GLN:NE2	2.33	0.62
2:B:26:LYS:HA	2:B:69:THR:O	2.00	0.62
2:B:115:LEU:HD22	2:B:119:TRP:CE2	2.34	0.62
4:D:151:ILE:HG23	4:D:158:LEU:HD13	1.81	0.62
5:E:140:ILE:HA	5:E:141:GLN:CB	2.23	0.62
5:E:392:PHE:HA	5:E:396:LEU:CD2	2.18	0.62
10:4:618:SER:HB3	10:4:622:VAL:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:176:ALA:HA	11:5:250:PHE:HA	1.80	0.62
11:5:494:HIS:HE1	11:5:546:ILE:HG13	1.65	0.62
11:5:617:GLN:HG2	11:5:674:GLU:OE1	1.99	0.62
12:6:106:VAL:CA	12:6:109:GLU:HB3	2.23	0.62
12:6:112:ARG:NH2	12:6:183:LYS:HB2	2.05	0.62
12:6:167:ALA:HA	12:6:170:ILE:HD12	1.82	0.62
12:6:185:LEU:O	12:6:189:VAL:N	2.29	0.62
12:6:706:MET:HG3	12:6:712:PHE:CE2	2.28	0.62
12:6:768:GLU:OE1	12:6:768:GLU:N	2.29	0.62
1:A:54:LEU:HA	1:A:57:GLN:HB3	1.81	0.62
2:B:26:LYS:HG3	2:B:70:GLU:OE1	1.99	0.62
3:C:110:LYS:O	3:C:114:LEU:N	2.30	0.62
4:D:157:TYR:O	4:D:161:LEU:N	2.31	0.62
5:E:127:ARG:O	5:E:245:THR:HA	2.00	0.62
5:E:363:PHE:HA	5:E:366:MET:HB2	1.81	0.62
8:2:339:PHE:CD2	8:2:373:PHE:HB3	2.34	0.62
8:2:556:VAL:HA	8:2:559:THR:HB	1.81	0.62
8:2:621:HIS:HA	8:2:624:MET:CE	2.30	0.62
9:3:171:LEU:CD2	9:3:172:THR:HG23	2.30	0.62
10:4:234:ARG:HB2	10:4:291:TYR:HE2	1.63	0.62
10:4:243:LEU:HG	10:4:244:ASP:H	1.64	0.62
10:4:618:SER:HB3	10:4:622:VAL:CG1	2.29	0.62
11:5:87:ILE:HB	11:5:196:ASN:ND2	2.14	0.62
11:5:97:VAL:HA	11:5:100:ARG:HG3	1.80	0.62
11:5:176:ALA:HB2	11:5:250:PHE:CE1	2.35	0.62
11:5:181:ILE:HG23	11:5:242:ILE:N	2.14	0.62
11:5:338:GLU:HB3	11:5:346:VAL:HB	1.82	0.62
12:6:417:PRO:O	12:6:448:LEU:HG	1.98	0.62
12:6:517:LYS:HA	12:6:520:VAL:CG2	2.28	0.62
1:A:7:ASN:CA	1:A:10:VAL:HG12	2.21	0.62
3:C:105:PHE:HZ	3:C:127:LEU:HD22	1.64	0.62
4:D:58:GLN:HA	4:D:61:SER:HB2	1.82	0.62
4:D:126:LEU:HD23	4:D:127:LEU:N	2.14	0.62
5:E:10:GLU:O	5:E:14:LYS:N	2.32	0.62
5:E:310:VAL:CG1	5:E:311:LYS:HA	2.30	0.62
5:E:366:MET:HG2	5:E:391:ILE:CG2	2.30	0.62
8:2:330:VAL:CG2	8:2:416:ASP:HB2	2.29	0.62
8:2:340:ASN:HB3	8:2:376:ASN:HB3	1.82	0.62
8:2:542:LEU:HB3	8:2:682:VAL:HA	1.81	0.62
9:3:179:LEU:HA	9:3:297:VAL:HA	1.82	0.62
9:3:716:ARG:NH2	9:3:725:ASP:OD1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:141:SER:OG	11:5:161:ARG:NH2	2.32	0.62
11:5:184:ARG:HB3	11:5:242:ILE:CD1	2.23	0.62
11:5:546:ILE:HD12	11:5:546:ILE:H	1.65	0.62
11:5:594:ILE:HD12	11:5:594:ILE:H	1.65	0.62
12:6:763:PRO:CB	12:6:817:ASP:HA	2.28	0.62
13:7:664:TYR:O	13:7:668:ARG:N	2.33	0.62
5:E:32:SER:HB2	5:E:86:PHE:CE2	2.35	0.62
5:E:563:GLN:O	5:E:565:LEU:HG	1.99	0.62
5:E:605:PHE:CE2	5:E:650:LEU:HD21	2.35	0.62
6:F:21:DT:OP2	9:3:438:SER:OG	2.14	0.62
10:4:203:TYR:HB2	10:4:206:ARG:CG	2.29	0.62
11:5:370:LEU:HD12	11:5:594:ILE:HD11	1.80	0.62
12:6:167:ALA:HA	12:6:170:ILE:CG1	2.30	0.62
12:6:574:VAL:HG12	12:6:684:PRO:HG3	1.82	0.62
12:6:781:ARG:HG2	12:6:795:ILE:HB	1.82	0.62
13:7:207:LEU:HD12	13:7:207:LEU:O	2.00	0.62
13:7:248:VAL:O	13:7:248:VAL:HG13	2.00	0.62
1:A:78:CYS:O	1:A:82:ASN:N	2.24	0.62
1:A:107:LEU:HD21	1:A:153:GLY:HA3	1.81	0.62
4:D:134:GLU:HA	4:D:137:LYS:HB3	1.81	0.62
4:D:261:PRO:HB3	4:D:278:ARG:NH1	2.14	0.62
5:E:539:TYR:HA	5:E:544:THR:HG21	1.81	0.62
5:E:637:LEU:O	5:E:641:LEU:N	2.31	0.62
8:2:701:ASP:HA	8:2:704:VAL:CG2	2.30	0.62
9:3:214:TYR:HE1	9:3:229:ALA:CB	2.08	0.62
9:3:254:GLN:HB3	9:3:283:VAL:HG22	1.81	0.62
9:3:314:LEU:HD11	11:5:303:SER:HB3	1.81	0.62
10:4:229:GLN:HA	10:4:232:GLU:CD	2.20	0.62
10:4:258:TYR:O	10:4:262:LEU:HG	1.98	0.62
10:4:331:LEU:HD13	10:4:430:GLY:HA2	1.82	0.62
10:4:352:CYS:N	10:4:353:ASP:HA	2.15	0.62
10:4:625:ASP:CG	10:4:667:ALA:HA	2.20	0.62
10:4:696:PRO:N	10:4:697:PRO:HD2	2.15	0.62
11:5:63:VAL:N	11:5:138:ILE:O	2.32	0.62
11:5:256:LEU:O	11:5:276:MET:N	2.32	0.62
12:6:170:ILE:O	12:6:174:TYR:HB2	1.99	0.62
12:6:802:SER:O	12:6:806:LEU:N	2.33	0.62
5:E:577:ASP:HB2	5:E:633:ARG:NE	2.09	0.61
8:2:258:LEU:O	8:2:262:LYS:N	2.33	0.61
8:2:803:PHE:CB	8:2:805:ILE:H	2.08	0.61
9:3:400:ARG:O	9:3:707:ARG:NH2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:456:LEU:HB2	13:7:254:ALA:HB2	1.80	0.61
11:5:75:ILE:CA	11:5:78:LYS:HB3	2.22	0.61
11:5:302:ASN:HB2	11:5:324:ARG:NH1	2.15	0.61
12:6:270:LEU:HD11	12:6:287:LEU:HD21	1.81	0.61
12:6:294:VAL:HG23	12:6:393:ASP:O	2.00	0.61
12:6:572:CYS:HA	12:6:680:ALA:O	2.00	0.61
13:7:89:GLN:HE22	13:7:103:VAL:H	1.48	0.61
13:7:466:LYS:HD3	13:7:566:ALA:HB1	1.82	0.61
1:A:158:PRO:HD2	2:B:18:PHE:CE1	2.35	0.61
1:A:169:LYS:HG3	1:A:185:LYS:HE2	1.82	0.61
3:C:137:HIS:CD2	11:5:55:LEU:HD22	2.35	0.61
5:E:5:ILE:HD13	5:E:134:ILE:HG23	1.81	0.61
5:E:134:ILE:HA	5:E:142:CYS:SG	2.40	0.61
9:3:260:GLU:OE1	9:3:260:GLU:N	2.23	0.61
9:3:389:VAL:O	9:3:389:VAL:HG12	1.99	0.61
9:3:476:ASP:HB3	9:3:516:ALA:HB1	1.82	0.61
11:5:236:CYS:SG	11:5:240:PRO:HG3	2.39	0.61
11:5:287:ILE:HG23	11:5:288:PRO:HD2	1.80	0.61
11:5:614:LEU:HA	11:5:672:ALA:HB3	1.81	0.61
11:5:663:LEU:HD23	11:5:663:LEU:O	2.00	0.61
12:6:130:GLY:CA	12:6:131:GLU:HB3	2.29	0.61
12:6:289:SER:HA	12:6:397:PHE:O	2.00	0.61
12:6:611:ALA:HB3	12:6:612:VAL:C	2.19	0.61
1:A:37:ILE:O	1:A:41:LEU:HG	2.00	0.61
5:E:288:TYR:HA	5:E:291:LEU:HB2	1.80	0.61
5:E:292:TYR:OH	5:E:406:ARG:NH1	2.33	0.61
8:2:458:ARG:HH22	8:2:562:ARG:HA	1.64	0.61
8:2:570:GLY:N	8:2:571:ALA:CA	2.63	0.61
9:3:167:SER:HB3	9:3:168:PRO:HD2	1.82	0.61
9:3:374:HIS:O	9:3:378:LYS:HG2	1.99	0.61
10:4:181:TRP:CZ2	13:7:149:ARG:HB2	2.35	0.61
10:4:249:LEU:HD12	10:4:250:ALA:CA	2.29	0.61
10:4:303:VAL:HG12	10:4:305:PRO:CD	2.26	0.61
11:5:83:PRO:O	11:5:87:ILE:HG13	1.99	0.61
11:5:426:LEU:HA	11:5:429:VAL:CG2	2.29	0.61
11:5:571:HIS:O	11:5:575:ILE:HG13	1.99	0.61
11:5:633:LEU:CD1	11:5:648:ILE:HD11	2.30	0.61
12:6:533:ILE:O	12:6:587:TYR:OH	2.12	0.61
13:7:225:LEU:O	13:7:241:VAL:HB	2.00	0.61
13:7:367:LYS:HA	13:7:368:ALA:CB	2.25	0.61
1:A:71:GLN:O	1:A:75:THR:N	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:VAL:CG1	1:A:149:ILE:HG13	2.30	0.61
1:A:196:VAL:HG13	1:A:205:LEU:CD1	2.31	0.61
3:C:188:LYS:HA	3:C:191:MET:CG	2.30	0.61
5:E:8:PHE:HE2	5:E:254:GLN:HB3	1.65	0.61
5:E:131:LEU:O	5:E:155:GLN:NE2	2.33	0.61
5:E:292:TYR:O	5:E:296:GLN:N	2.29	0.61
5:E:359:LEU:HG	5:E:363:PHE:CE2	2.35	0.61
8:2:506:TYR:HB2	8:2:698:PHE:CZ	2.35	0.61
8:2:849:GLN:HB2	8:2:853:VAL:HB	1.83	0.61
9:3:553:ILE:CB	11:5:630:ARG:HD2	2.30	0.61
9:3:566:LEU:HD11	11:5:623:SER:HB3	1.81	0.61
10:4:178:ARG:NH1	10:4:187:ILE:HD12	2.15	0.61
10:4:188:GLN:C	10:4:190:CYS:H	2.03	0.61
10:4:277:LYS:O	10:4:281:VAL:HG23	2.00	0.61
10:4:340:PRO:HG2	12:6:450:TYR:O	2.01	0.61
10:4:442:ILE:HD13	10:4:460:TYR:HE2	1.66	0.61
10:4:748:THR:HA	10:4:751:ILE:CD1	2.29	0.61
10:4:778:ARG:HH21	10:4:794:THR:HA	1.66	0.61
10:4:820:GLU:HA	10:4:823:GLN:HE22	1.64	0.61
11:5:164:GLY:HA3	11:5:258:LEU:HD11	1.82	0.61
11:5:649:THR:OG1	11:5:652:GLN:HG2	2.00	0.61
12:6:525:ILE:HG22	12:6:746:PHE:HZ	1.66	0.61
13:7:287:GLU:HA	13:7:290:SER:CB	2.30	0.61
1:A:145:ASP:HB3	1:A:147:VAL:CG2	2.31	0.61
3:C:20:PHE:HA	3:C:72:VAL:HA	1.82	0.61
3:C:50:LEU:O	3:C:54:LEU:HG	2.00	0.61
4:D:99:GLU:O	4:D:103:MET:HG2	2.01	0.61
5:E:302:LEU:HD12	5:E:302:LEU:O	1.99	0.61
9:3:123:PRO:HA	9:3:126:GLU:CD	2.21	0.61
9:3:216:ASP:OD1	9:3:219:THR:N	2.34	0.61
10:4:188:GLN:O	10:4:190:CYS:N	2.29	0.61
10:4:340:PRO:HD3	12:6:452:ILE:CD1	2.31	0.61
10:4:710:ASP:OD2	13:7:672:LYS:NZ	2.31	0.61
11:5:382:GLU:OE1	11:5:382:GLU:N	2.30	0.61
11:5:384:ILE:HG23	11:5:554:PHE:HD2	1.65	0.61
11:5:391:LEU:HA	11:5:409:ASP:OD2	2.00	0.61
11:5:485:MET:HG2	11:5:490:ARG:HB2	1.82	0.61
13:7:421:GLU:HA	13:7:625:GLN:OE1	2.00	0.61
5:E:161:LYS:HB3	5:E:233:TYR:CD2	2.36	0.61
5:E:519:ILE:HG13	5:E:528:CYS:SG	2.41	0.61
8:2:319:ARG:HE	8:2:427:THR:CG2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:571:ALA:HB3	12:6:665:LYS:CE	2.29	0.61
10:4:397:ILE:HB	10:4:417:LEU:CD1	2.31	0.61
10:4:704:LEU:HD12	10:4:705:VAL:H	1.65	0.61
11:5:618:ALA:O	11:5:622:LEU:HG	1.99	0.61
13:7:127:LEU:HD12	13:7:128:PRO:N	2.16	0.61
13:7:459:MET:CB	13:7:597:LEU:HD21	2.28	0.61
1:A:79:MET:CB	4:D:206:LEU:HD11	2.31	0.61
2:B:122:LEU:C	2:B:126:LEU:HG	2.21	0.61
4:D:231:HIS:HB2	4:D:274:ILE:HG22	1.82	0.61
4:D:267:VAL:N	4:D:268:GLU:HA	2.15	0.61
5:E:137:SER:HA	5:E:140:ILE:HD11	1.81	0.61
5:E:140:ILE:HB	5:E:142:CYS:N	2.16	0.61
5:E:491:LEU:HD12	5:E:492:LEU:N	2.16	0.61
8:2:266:GLU:O	8:2:270:ILE:N	2.33	0.61
8:2:296:ARG:HD2	8:2:454:ASN:O	2.00	0.61
8:2:338:LYS:HD2	8:2:347:ILE:CG2	2.31	0.61
8:2:347:ILE:HD13	8:2:379:LYS:HG3	1.82	0.61
8:2:445:PRO:HD3	12:6:325:PHE:CB	2.31	0.61
8:2:684:ARG:HB3	8:2:685:ASP:CB	2.30	0.61
9:3:193:ARG:NH2	9:3:451:GLU:O	2.34	0.61
9:3:690:ASP:OD2	9:3:697:ILE:HD11	2.00	0.61
10:4:803:ARG:HA	10:4:806:GLU:OE2	2.00	0.61
11:5:141:SER:CB	11:5:161:ARG:HH21	2.13	0.61
11:5:155:HIS:O	11:5:298:TYR:HB3	2.01	0.61
11:5:299:SER:O	11:5:300:ILE:HD13	2.01	0.61
11:5:435:ILE:HD12	11:5:475:GLY:HA3	1.83	0.61
12:6:363:GLU:HB3	12:6:374:PRO:HB3	1.83	0.61
13:7:333:ILE:CD1	13:7:376:LEU:HD23	2.30	0.61
13:7:654:GLU:HA	13:7:657:ASN:HB2	1.81	0.61
2:B:165:GLU:OE1	2:B:165:GLU:N	2.27	0.61
3:C:165:PHE:O	3:C:168:LYS:HG2	2.00	0.61
4:D:83:LEU:O	4:D:86:ARG:HG2	2.01	0.61
4:D:224:TRP:HB3	4:D:280:GLU:HB2	1.81	0.61
8:2:289:ILE:HG22	8:2:290:HIS:CD2	2.35	0.61
9:3:181:SER:CB	9:3:295:VAL:HG22	2.31	0.61
9:3:294:VAL:HG22	9:3:326:VAL:CG1	2.30	0.61
9:3:446:VAL:HG21	9:3:458:GLU:HB2	1.82	0.61
9:3:459:ALA:H	13:7:327:ILE:HD11	1.65	0.61
9:3:470:VAL:CG1	9:3:512:VAL:HG13	2.30	0.61
9:3:666:ARG:HB3	9:3:667:VAL:HG23	1.83	0.61
10:4:234:ARG:HG3	10:4:291:TYR:OH	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:245:ALA:O	10:4:307:ASN:HB3	2.00	0.61
10:4:345:ALA:N	10:4:360:ILE:HD12	2.15	0.61
10:4:654:ILE:N	10:4:665:LEU:O	2.27	0.61
11:5:301:TYR:HD2	11:5:327:TYR:CD2	2.19	0.61
11:5:655:ALA:O	11:5:659:ILE:HD12	2.01	0.61
13:7:671:SER:OG	13:7:682:GLY:HA2	2.00	0.61
3:C:137:HIS:CB	11:5:55:LEU:HB3	2.27	0.61
3:C:138:HIS:HB3	3:C:177:TYR:CE1	2.35	0.61
4:D:259:THR:OG1	4:D:260:ILE:N	2.34	0.61
5:E:336:ASP:HA	5:E:339:TYR:HB3	1.83	0.61
5:E:612:ILE:HG21	5:E:640:PHE:HD1	1.65	0.61
6:F:21:DT:H3'	11:5:506:LYS:HE2	1.82	0.61
8:2:591:LEU:HD23	8:2:592:GLU:N	2.16	0.61
8:2:779:HIS:O	8:2:783:MET:HG2	2.00	0.61
8:2:793:LEU:HD11	8:2:863:ILE:HG13	1.83	0.61
8:2:815:ARG:HG3	8:2:818:GLU:OE2	2.01	0.61
9:3:356:LYS:HB2	9:3:359:ILE:CG2	2.26	0.61
9:3:706:ILE:HD13	13:7:620:HIS:CD2	2.36	0.61
10:4:332:VAL:HB	10:4:430:GLY:H	1.66	0.61
10:4:652:GLN:NE2	10:4:668:ARG:HA	2.15	0.61
10:4:714:GLU:HB3	10:4:715:LYS:HB2	1.83	0.61
11:5:300:ILE:HD13	11:5:326:PRO:HA	1.82	0.61
11:5:439:THR:HA	11:5:444:SER:HB2	1.83	0.61
12:6:625:ALA:CB	12:6:626:GLY:HA2	2.18	0.61
12:6:811:ALA:HB2	12:6:819:ILE:CG1	2.28	0.61
13:7:128:PRO:CD	13:7:129:THR:HA	2.30	0.61
4:D:212:THR:HB	4:D:213:GLU:C	2.21	0.61
5:E:78:ILE:H	5:E:78:ILE:HD12	1.65	0.61
5:E:151:THR:HA	5:E:152:LEU:CB	2.28	0.61
8:2:305:SER:HA	8:2:321:THR:HG22	1.83	0.61
8:2:621:HIS:HA	8:2:624:MET:HE3	1.82	0.61
11:5:45:ILE:HG13	11:5:46:TYR:N	2.14	0.61
12:6:274:HIS:HB2	12:6:288:LEU:HD21	1.82	0.61
12:6:650:VAL:O	12:6:654:GLU:HG3	2.01	0.61
13:7:153:MET:O	13:7:157:ARG:HB2	2.01	0.61
13:7:236:GLY:HA2	13:7:356:LEU:HD21	1.83	0.61
13:7:575:ASN:CB	13:7:578:LEU:HD13	2.21	0.61
2:B:27:ILE:HG22	2:B:87:ILE:HA	1.83	0.60
2:B:157:LEU:HA	2:B:160:LEU:CB	2.31	0.60
5:E:284:TYR:HB2	5:E:286:GLN:NE2	2.15	0.60
5:E:369:PRO:HG3	8:2:289:ILE:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:420:SER:O	5:E:424:PHE:N	2.29	0.60
8:2:481:GLU:O	8:2:485:ARG:N	2.33	0.60
8:2:626:GLN:NE2	8:2:628:SER:O	2.33	0.60
9:3:181:SER:CA	9:3:295:VAL:HG22	2.31	0.60
9:3:371:ILE:HD11	11:5:404:MET:HE1	1.82	0.60
10:4:559:ARG:NE	10:4:668:ARG:HB2	2.16	0.60
10:4:642:ARG:HD3	10:4:698:LEU:HD22	1.82	0.60
10:4:688:VAL:HG11	10:4:836:TYR:HD1	1.66	0.60
11:5:487:ASP:O	11:5:491:VAL:HG23	2.00	0.60
11:5:494:HIS:HB3	11:5:549:ARG:NE	2.16	0.60
11:5:502:ILE:O	11:5:513:LEU:HG	2.01	0.60
12:6:301:ARG:O	12:6:356:TRP:N	2.32	0.60
13:7:443:ARG:HG3	13:7:449:LYS:CE	2.28	0.60
1:A:14:LYS:HB2	3:C:6:ILE:HD12	1.83	0.60
1:A:145:ASP:CB	1:A:147:VAL:HG23	2.30	0.60
1:A:192:ARG:NH1	4:D:130:GLU:HG3	2.16	0.60
3:C:27:LEU:CD2	3:C:29:TYR:H	2.09	0.60
3:C:27:LEU:HD12	3:C:38:ILE:HG12	1.83	0.60
3:C:111:TRP:HA	3:C:114:LEU:HB3	1.83	0.60
5:E:556:CYS:O	5:E:560:GLU:HG2	2.01	0.60
8:2:301:PRO:CB	8:2:303:ILE:HG12	2.29	0.60
8:2:695:LEU:O	8:2:699:VAL:N	2.30	0.60
8:2:763:LEU:HD12	8:2:764:MET:N	2.15	0.60
9:3:32:LEU:HD22	9:3:38:TYR:HB2	1.82	0.60
9:3:372:TYR:CZ	9:3:564:HIS:HB3	2.36	0.60
9:3:441:GLY:HA2	9:3:460:GLY:C	2.22	0.60
9:3:519:VAL:HG22	9:3:534:ALA:CB	2.27	0.60
10:4:334:ARG:NH1	10:4:398:LYS:HD3	2.15	0.60
10:4:458:LYS:HA	13:7:252:LYS:HZ1	1.63	0.60
11:5:136:GLN:NE2	11:5:282:LEU:HG	2.16	0.60
11:5:432:VAL:O	11:5:600:LYS:HE2	2.00	0.60
11:5:502:ILE:HB	11:5:513:LEU:CD1	2.31	0.60
11:5:643:ARG:NH1	11:5:691:ALA:O	2.34	0.60
12:6:137:ARG:O	12:6:141:GLU:HG2	2.01	0.60
13:7:208:SER:HA	13:7:222:SER:CB	2.31	0.60
13:7:238:LEU:CB	13:7:354:ILE:HG22	2.31	0.60
13:7:283:GLU:O	13:7:298:LEU:HG	2.01	0.60
13:7:546:ILE:O	13:7:556:THR:HA	2.01	0.60
13:7:650:PRO:HG3	13:7:700:ALA:HB3	1.83	0.60
13:7:705:ALA:O	13:7:707:MET:HG2	2.01	0.60
1:A:90:GLN:HA	1:A:93:ARG:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LYS:H	1:A:185:LYS:CD	2.08	0.60
2:B:8:GLN:O	4:D:71:ARG:NH2	2.34	0.60
3:C:50:LEU:HD12	3:C:51:ALA:N	2.15	0.60
8:2:458:ARG:NH2	8:2:562:ARG:HA	2.15	0.60
10:4:647:GLU:OE2	10:4:655:SER:N	2.20	0.60
10:4:824:GLU:O	10:4:828:LEU:N	2.32	0.60
11:5:391:LEU:O	11:5:391:LEU:HD23	2.01	0.60
11:5:673:GLN:HB2	11:5:676:HIS:HB2	1.83	0.60
12:6:111:VAL:O	12:6:115:PHE:N	2.28	0.60
12:6:632:ASP:HA	12:6:676:THR:CG2	2.26	0.60
13:7:461:ASP:HB3	13:7:569:PRO:HD2	1.82	0.60
1:A:138:ILE:HG23	1:A:142:LYS:NZ	2.16	0.60
4:D:60:PHE:HE1	4:D:136:LEU:HG	1.67	0.60
4:D:170:SER:CB	4:D:175:LEU:HD13	2.29	0.60
8:2:585:ILE:HA	8:2:586:THR:HG22	1.83	0.60
9:3:113:GLY:HA2	9:3:116:VAL:HB	1.83	0.60
9:3:432:THR:O	9:3:473:ASP:N	2.31	0.60
9:3:494:THR:HA	9:3:508:ALA:H	1.66	0.60
11:5:550:PHE:HB2	11:5:553:ILE:HD11	1.82	0.60
11:5:594:ILE:HG21	11:5:599:MET:HB2	1.81	0.60
13:7:353:GLY:HA2	13:7:379:GLN:HG2	1.83	0.60
1:A:130:TYR:HB2	4:D:193:LEU:HD13	1.84	0.60
2:B:146:GLN:HG2	11:5:44:PHE:HZ	1.66	0.60
4:D:76:LEU:HD22	4:D:151:ILE:CD1	2.18	0.60
4:D:216:VAL:HG21	4:D:219:ILE:HG13	1.83	0.60
8:2:266:GLU:HA	8:2:269:LYS:CB	2.19	0.60
8:2:785:LYS:HG2	8:2:789:VAL:CG2	2.31	0.60
8:2:794:ARG:HD2	11:5:565:ASP:OD2	2.02	0.60
8:2:819:SER:O	8:2:823:MET:HG3	2.01	0.60
9:3:299:LYS:HG3	9:3:322:LEU:HG	1.83	0.60
9:3:457:LEU:HG	9:3:502:ILE:HD13	1.83	0.60
9:3:705:LEU:HD21	9:3:733:LEU:CD1	2.30	0.60
10:4:401:GLU:HG2	10:4:403:PRO:HD3	1.82	0.60
10:4:437:GLY:HA2	10:4:464:VAL:HG23	1.84	0.60
10:4:806:GLU:HA	10:4:809:ALA:HB3	1.82	0.60
11:5:50:LEU:O	11:5:54:ILE:HG13	2.00	0.60
11:5:384:ILE:HG23	11:5:554:PHE:CD2	2.36	0.60
11:5:434:PRO:CA	11:5:600:LYS:HD3	2.31	0.60
11:5:656:ILE:HA	11:5:659:ILE:CD1	2.31	0.60
12:6:616:GLU:N	12:6:617:GLU:HA	2.17	0.60
13:7:461:ASP:OD2	13:7:573:ARG:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:493:LEU:CB	13:7:513:LEU:HG	2.31	0.60
13:7:575:ASN:O	13:7:578:LEU:HB2	2.02	0.60
13:7:584:ILE:HD13	13:7:591:LEU:CD2	2.31	0.60
2:B:187:GLU:HB2	3:C:179:LYS:HZ3	1.67	0.60
5:E:545:LEU:CA	5:E:548:LEU:HB3	2.30	0.60
8:2:430:TYR:OH	8:2:449:THR:HG21	2.01	0.60
8:2:553:LEU:O	8:2:557:GLU:HG3	2.02	0.60
9:3:348:ARG:HA	9:3:351:ASN:HD22	1.65	0.60
9:3:372:TYR:CE2	9:3:561:ILE:HA	2.36	0.60
9:3:500:ALA:HB3	9:3:501:GLY:HA2	1.82	0.60
9:3:660:VAL:O	9:3:664:LYS:HG3	2.02	0.60
10:4:239:SER:OG	10:4:301:TYR:HA	2.01	0.60
10:4:795:THR:HA	10:4:798:LEU:HB3	1.84	0.60
10:4:827:ARG:HA	10:4:830:ARG:CG	2.30	0.60
11:5:349:PHE:CB	11:5:601:ARG:HH21	2.12	0.60
11:5:374:ILE:HA	11:5:428:PHE:CZ	2.37	0.60
11:5:456:ASP:HB3	11:5:460:ARG:O	2.02	0.60
12:6:689:TYR:HD2	12:6:716:LEU:HD12	1.67	0.60
12:6:695:LEU:HB3	12:6:838:VAL:CG1	2.23	0.60
13:7:149:ARG:O	13:7:153:MET:HG3	2.00	0.60
13:7:203:TYR:OH	13:7:339:LEU:N	2.33	0.60
1:A:23:SER:N	1:A:24:ASN:CA	2.65	0.60
2:B:55:THR:HG22	4:D:94:GLN:HE22	1.65	0.60
4:D:151:ILE:HG23	4:D:158:LEU:CD1	2.32	0.60
5:E:582:ALA:HA	5:E:629:ILE:HA	1.82	0.60
5:E:603:ASN:OD1	5:E:604:ASN:N	2.35	0.60
8:2:399:PRO:HB2	12:6:630:LEU:HB3	1.83	0.60
9:3:234:GLU:HA	9:3:239:ASN:O	2.00	0.60
9:3:706:ILE:HD13	13:7:620:HIS:HD2	1.66	0.60
10:4:653:THR:HA	10:4:667:ALA:H	1.66	0.60
10:4:717:ASP:O	10:4:721:ALA:N	2.28	0.60
10:4:761:ILE:CD1	12:6:737:LYS:HD2	2.32	0.60
11:5:626:PHE:CE2	11:5:630:ARG:HB2	2.36	0.60
13:7:354:ILE:H	13:7:379:GLN:HG2	1.67	0.60
2:B:119:TRP:HA	2:B:122:LEU:CD1	2.31	0.60
2:B:155:LYS:HA	2:B:158:LYS:CG	2.30	0.60
5:E:38:ALA:O	5:E:42:THR:HG23	2.02	0.60
7:G:5:DA:H5''	9:3:230:ILE:CD1	2.31	0.60
8:2:259:PHE:O	8:2:263:CYS:N	2.34	0.60
8:2:327:ARG:HH12	8:2:420:PRO:HD3	1.67	0.60
9:3:368:ALA:HB1	9:3:371:ILE:CB	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:235:GLU:HG3	10:4:291:TYR:OH	2.02	0.60
10:4:458:LYS:CE	12:6:413:PRO:HD3	2.30	0.60
10:4:631:ILE:HB	10:4:673:ALA:CB	2.31	0.60
11:5:568:ILE:O	11:5:572:VAL:HG23	2.01	0.60
12:6:264:GLN:NE2	12:6:383:GLY:HA2	2.16	0.60
12:6:292:GLY:O	12:6:394:ARG:HA	2.00	0.60
12:6:344:TRP:CB	12:6:345:THR:CA	2.80	0.60
13:7:115:GLU:O	13:7:119:ARG:N	2.34	0.60
13:7:128:PRO:HB2	13:7:129:THR:CA	2.31	0.60
1:A:169:LYS:CA	1:A:185:LYS:HD3	2.32	0.60
1:A:202:GLN:HB3	1:A:204:TYR:HD2	1.67	0.60
2:B:178:ILE:HA	2:B:181:LEU:CD2	2.31	0.60
4:D:132:GLU:HG2	4:D:135:ARG:HH12	1.67	0.60
5:E:520:LYS:HB2	5:E:527:LEU:HD22	1.83	0.60
8:2:338:LYS:HD2	8:2:347:ILE:HG22	1.84	0.60
8:2:565:PHE:HD1	8:2:605:LEU:HB3	1.66	0.60
8:2:567:THR:HG22	8:2:572:SER:CB	2.31	0.60
8:2:630:SER:HB2	11:5:445:SER:HA	1.84	0.60
9:3:439:GLY:HA2	9:3:442:LEU:HD22	1.84	0.60
9:3:470:VAL:HB	9:3:512:VAL:HA	1.84	0.60
11:5:165:ILE:HD11	11:5:291:ARG:NH1	2.17	0.60
11:5:393:MET:SD	11:5:603:ILE:HG23	2.41	0.60
11:5:588:GLU:HB3	11:5:593:GLU:CB	2.31	0.60
12:6:358:LYS:HD2	12:6:378:ASP:OD2	2.01	0.60
12:6:748:ALA:O	12:6:752:ARG:HG3	2.02	0.60
13:7:689:LEU:HD12	13:7:692:ILE:HG21	1.83	0.60
1:A:188:GLN:HG3	5:E:58:ILE:HD12	1.84	0.60
3:C:15:GLU:HB3	3:C:45:SER:HB2	1.84	0.60
5:E:525:TYR:HE1	5:E:568:VAL:HG21	1.67	0.60
8:2:219:THR:CB	8:2:223:GLY:HA2	2.30	0.60
8:2:580:VAL:HG11	8:2:592:GLU:N	2.17	0.60
8:2:776:PRO:HA	8:2:827:GLU:C	2.22	0.60
9:3:152:PRO:CB	9:3:154:LYS:HE3	2.32	0.60
9:3:338:ALA:HB3	9:3:339:ARG:HA	1.82	0.60
9:3:367:LEU:HA	9:3:421:PHE:CZ	2.37	0.60
10:4:224:LEU:HD11	10:4:227:ILE:CG1	2.32	0.60
10:4:830:ARG:O	10:4:834:LYS:HG2	2.01	0.60
11:5:296:GLY:HA3	11:5:329:LYS:O	2.01	0.60
11:5:389:VAL:HA	11:5:392:LEU:CD1	2.31	0.60
12:6:765:LEU:HD12	12:6:819:ILE:HB	1.84	0.60
1:A:149:ILE:HD13	4:D:144:ILE:HD11	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:158:PRO:O	1:A:159:SER:OG	2.17	0.59
1:A:166:ARG:HA	1:A:188:GLN:HA	1.83	0.59
1:A:175:GLN:HG3	1:A:181:PHE:H	1.66	0.59
4:D:258:VAL:HG13	4:D:259:THR:C	2.23	0.59
5:E:15:ILE:O	5:E:19:SER:OG	2.20	0.59
7:G:8:DG:H2'	7:G:9:DA:C8	2.37	0.59
8:2:548:ALA:O	8:2:552:ILE:HD12	2.01	0.59
8:2:569:GLN:C	8:2:571:ALA:HA	2.23	0.59
8:2:621:HIS:HB2	8:2:673:ILE:CG1	2.21	0.59
8:2:705:ARG:CB	12:6:559:THR:HB	2.26	0.59
10:4:262:LEU:O	10:4:324:LYS:HG2	2.01	0.59
10:4:347:PHE:CE1	10:4:384:LEU:HD12	2.38	0.59
10:4:654:ILE:HB	10:4:665:LEU:CD1	2.31	0.59
11:5:412:VAL:O	11:5:521:ALA:N	2.32	0.59
11:5:631:LYS:O	11:5:635:ILE:HG13	2.02	0.59
11:5:633:LEU:HB2	11:5:648:ILE:CD1	2.29	0.59
12:6:143:MET:HE2	12:6:150:THR:HG22	1.83	0.59
13:7:116:LEU:O	13:7:119:ARG:HG2	2.02	0.59
13:7:269:VAL:HG11	13:7:281:LEU:HD21	1.84	0.59
13:7:618:TYR:CE2	13:7:625:GLN:HA	2.37	0.59
1:A:12:GLU:O	1:A:15:ARG:HG2	2.01	0.59
4:D:218:MET:H	4:D:219:ILE:HB	1.65	0.59
5:E:344:VAL:HG13	5:E:348:LEU:CD1	2.32	0.59
8:2:314:LEU:HD12	8:2:315:SER:HB3	1.84	0.59
8:2:333:GLN:HG3	8:2:335:LYS:H	1.66	0.59
8:2:553:LEU:HD12	8:2:554:LYS:N	2.17	0.59
8:2:581:ARG:HD3	8:2:634:ALA:CB	2.16	0.59
9:3:48:TYR:CD2	9:3:92:LEU:HG	2.37	0.59
9:3:446:VAL:HB	9:3:456:ARG:O	2.02	0.59
9:3:518:PRO:CB	9:3:524:ASP:HB2	2.32	0.59
10:4:314:MET:HG2	10:4:413:HIS:HD2	1.67	0.59
10:4:602:THR:CA	10:4:619:GLY:HA3	2.31	0.59
10:4:912:GLN:NE2	12:6:700:ASN:OD1	2.34	0.59
11:5:172:LEU:HD21	11:5:283:THR:HB	1.83	0.59
11:5:378:ILE:HA	14:5:801:ATP:N1	2.17	0.59
11:5:667:GLU:OE2	11:5:673:GLN:NE2	2.35	0.59
12:6:185:LEU:O	12:6:189:VAL:HG23	2.02	0.59
12:6:355:ASP:CB	12:6:356:TRP:HB3	2.32	0.59
12:6:806:LEU:O	12:6:810:ILE:HG13	2.02	0.59
13:7:491:VAL:HA	13:7:494:THR:CG2	2.31	0.59
1:A:168:LEU:HD22	1:A:168:LEU:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:ARG:HH12	4:D:130:GLU:HG3	1.64	0.59
5:E:46:SER:O	5:E:50:LYS:HG3	2.02	0.59
5:E:150:ASP:N	5:E:152:LEU:HB3	2.15	0.59
5:E:559:SER:HA	5:E:560:GLU:CB	2.28	0.59
5:E:632:ILE:CG1	5:E:637:LEU:HB3	2.32	0.59
8:2:341:CYS:SG	8:2:348:LEU:HD22	2.42	0.59
8:2:511:ILE:O	8:2:515:VAL:HG23	2.02	0.59
8:2:569:GLN:NE2	8:2:616:ASP:OD2	2.35	0.59
8:2:671:GLU:HB3	8:2:672:PRO:HD3	1.84	0.59
9:3:291:ARG:HB3	9:3:329:LEU:HD11	1.84	0.59
10:4:223:GLU:HB3	10:4:228:LYS:CE	2.32	0.59
10:4:419:VAL:CG1	10:4:463:VAL:HG11	2.33	0.59
11:5:261:ILE:HG23	11:5:291:ARG:HH12	1.68	0.59
11:5:374:ILE:HD11	11:5:389:VAL:HG22	1.83	0.59
11:5:453:VAL:HB	11:5:506:LYS:CD	2.32	0.59
12:6:277:ARG:HD3	12:6:367:GLU:OE2	2.01	0.59
12:6:695:LEU:CB	12:6:838:VAL:HG13	2.23	0.59
12:6:776:LYS:CA	12:6:779:GLU:HG2	2.32	0.59
13:7:517:ASP:HA	13:7:561:THR:HG22	1.84	0.59
13:7:517:ASP:N	13:7:561:THR:HG22	2.17	0.59
13:7:581:LEU:HD23	13:7:581:LEU:O	2.01	0.59
2:B:17:GLN:CB	2:B:121:VAL:HG11	2.32	0.59
4:D:172:THR:HG21	4:D:177:LYS:NZ	2.18	0.59
4:D:267:VAL:H	4:D:268:GLU:HA	1.67	0.59
5:E:503:GLN:HA	5:E:506:ILE:CB	2.23	0.59
5:E:511:VAL:HA	5:E:514:LEU:HG	1.83	0.59
6:F:10:DT:H2'	6:F:11:DC:H6	1.66	0.59
6:F:23:DT:H1'	6:F:24:DT:C4	2.37	0.59
8:2:409:ILE:HB	8:2:452:GLU:HB2	1.84	0.59
8:2:695:LEU:HD11	14:2:901:ATP:C6	2.36	0.59
9:3:408:VAL:HA	9:3:415:LYS:HZ3	1.66	0.59
9:3:475:PHE:O	9:3:483:ARG:NH1	2.35	0.59
9:3:500:ALA:HB3	9:3:501:GLY:CA	2.32	0.59
9:3:500:ALA:H	9:3:501:GLY:HA3	1.67	0.59
10:4:420:TYR:C	10:4:424:VAL:HG23	2.22	0.59
10:4:633:GLU:OE1	10:4:636:LYS:HD2	2.02	0.59
11:5:35:ILE:O	11:5:47:ARG:HB2	2.02	0.59
12:6:134:LYS:HG2	12:6:137:ARG:CG	2.32	0.59
12:6:510:SER:O	12:6:513:ILE:HG22	2.02	0.59
13:7:142:ILE:HG22	13:7:146:ARG:HE	1.67	0.59
13:7:232:GLY:O	13:7:235:LEU:HD13	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:537:ILE:HA	13:7:540:VAL:CB	2.33	0.59
4:D:144:ILE:HG13	4:D:145:ARG:N	2.17	0.59
4:D:204:GLU:HA	4:D:207:GLN:CD	2.22	0.59
4:D:264:LYS:HG2	4:D:265:GLU:H	1.67	0.59
5:E:347:LYS:CD	5:E:401:LEU:HD23	2.32	0.59
8:2:337:VAL:O	8:2:351:PHE:N	2.35	0.59
8:2:657:TYR:O	10:4:928:ARG:NH2	2.35	0.59
9:3:172:THR:HA	9:3:175:HIS:H	1.66	0.59
9:3:315:ILE:HG22	11:5:255:PHE:CZ	2.36	0.59
10:4:224:LEU:HD11	10:4:227:ILE:HG12	1.83	0.59
10:4:433:ILE:HG22	10:4:435:VAL:HG23	1.84	0.59
10:4:656:ILE:N	10:4:663:THR:O	2.23	0.59
10:4:722:LYS:HA	10:4:725:THR:CB	2.32	0.59
11:5:90:PHE:C	11:5:94:ILE:HD12	2.23	0.59
11:5:97:VAL:HA	11:5:100:ARG:CG	2.32	0.59
11:5:151:LEU:HD11	11:5:274:LEU:HD11	1.84	0.59
11:5:673:GLN:O	11:5:677:VAL:HG23	2.02	0.59
12:6:142:PHE:HA	12:6:145:ILE:HG12	1.84	0.59
12:6:653:HIS:HB2	12:6:705:ILE:CG2	2.30	0.59
13:7:458:LEU:HB2	13:7:566:ALA:CB	2.32	0.59
13:7:539:GLU:OE2	13:7:545:THR:HB	2.03	0.59
1:A:27:VAL:HG11	1:A:100:MET:SD	2.43	0.59
1:A:106:GLY:H	1:A:107:LEU:HD13	1.67	0.59
2:B:74:TRP:CZ3	2:B:75:ILE:HG22	2.37	0.59
2:B:187:GLU:OE2	3:C:176:ILE:HG22	2.03	0.59
3:C:18:CYS:CB	3:C:74:LEU:HD23	2.33	0.59
4:D:67:TRP:O	4:D:70:GLU:HB3	2.03	0.59
5:E:349:SER:HA	5:E:351:TRP:CZ3	2.38	0.59
8:2:320:VAL:N	8:2:426:VAL:O	2.23	0.59
8:2:506:TYR:HD2	8:2:695:LEU:HD12	1.68	0.59
8:2:589:TRP:CG	8:2:590:THR:N	2.70	0.59
9:3:562:SER:C	9:3:566:LEU:HG	2.23	0.59
10:4:311:CYS:CB	10:4:326:ILE:HG23	2.32	0.59
10:4:344:VAL:O	10:4:389:CYS:HB2	2.03	0.59
10:4:634:PHE:HA	10:4:637:MET:CG	2.32	0.59
11:5:50:LEU:HD22	11:5:101:ILE:CD1	2.32	0.59
11:5:156:VAL:HA	11:5:298:TYR:O	2.02	0.59
11:5:182:MET:SD	11:5:187:ARG:HD3	2.43	0.59
11:5:530:TYR:HD1	11:5:533:LEU:HD12	1.67	0.59
12:6:398:THR:OG1	12:6:458:HIS:HB3	2.02	0.59
12:6:580:SER:HB2	12:6:583:GLN:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:88:TYR:HA	13:7:91:GLU:CB	2.32	0.59
1:A:175:GLN:HB3	1:A:180:VAL:HA	1.84	0.59
2:B:10:THR:OG1	2:B:179:ASN:OD1	2.19	0.59
3:C:35:GLY:N	3:C:36:ARG:HA	2.17	0.59
5:E:581:VAL:O	5:E:630:ILE:N	2.31	0.59
8:2:786:VAL:O	8:2:790:TYR:N	2.34	0.59
9:3:676:ILE:O	9:3:680:VAL:HG23	2.03	0.59
10:4:419:VAL:HG12	10:4:463:VAL:CG1	2.32	0.59
10:4:442:ILE:HD13	10:4:460:TYR:CE2	2.37	0.59
10:4:613:GLN:HB2	12:6:360:ARG:HH12	1.68	0.59
10:4:818:GLU:HG3	10:4:820:GLU:H	1.66	0.59
11:5:31:PHE:O	11:5:35:ILE:N	2.35	0.59
11:5:303:SER:C	11:5:304:LYS:HG3	2.21	0.59
11:5:348:MET:HA	11:5:348:MET:CE	2.31	0.59
11:5:455:ARG:HG2	11:5:462:PHE:CD1	2.37	0.59
11:5:570:ASN:O	11:5:574:ASN:ND2	2.36	0.59
12:6:194:PRO:O	12:6:261:ARG:NE	2.33	0.59
13:7:17:LEU:HD23	13:7:102:LEU:CD2	2.31	0.59
13:7:220:ILE:HA	13:7:223:LYS:NZ	2.16	0.59
13:7:428:VAL:HA	13:7:598:PHE:CE2	2.38	0.59
1:A:67:VAL:CG1	3:C:25:PRO:HD2	2.21	0.59
1:A:159:SER:CB	1:A:160:ASP:HB2	2.32	0.59
5:E:324:TYR:CE1	5:E:405:ILE:HG13	2.38	0.59
5:E:357:LYS:O	8:2:236:GLU:HG2	2.02	0.59
5:E:361:LYS:HB2	8:2:236:GLU:OE2	2.03	0.59
8:2:311:GLU:HG3	12:6:353:PHE:O	2.02	0.59
9:3:47:VAL:O	9:3:51:ASN:N	2.34	0.59
9:3:214:TYR:OH	9:3:231:TYR:HA	2.02	0.59
9:3:675:ALA:HA	9:3:723:LYS:HA	1.85	0.59
10:4:342:MET:HE2	12:6:448:LEU:CD1	2.32	0.59
10:4:342:MET:HG3	12:6:417:PRO:CG	2.32	0.59
10:4:607:ARG:CA	10:4:614:LEU:HD23	2.33	0.59
12:6:747:SER:O	12:6:750:GLN:HG2	2.03	0.59
13:7:401:VAL:O	13:7:405:ILE:HG13	2.03	0.59
13:7:484:THR:HA	13:7:524:ASP:H	1.68	0.59
4:D:189:ILE:HD12	4:D:192:LYS:CB	2.31	0.59
5:E:10:GLU:HA	5:E:13:ASN:HB2	1.84	0.59
5:E:335:TYR:HB2	5:E:373:ALA:CB	2.32	0.59
5:E:520:LYS:N	5:E:527:LEU:O	2.23	0.59
8:2:337:VAL:HG23	8:2:353:GLN:O	2.03	0.59
8:2:423:GLU:HB2	8:2:459:ARG:CB	2.23	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:441:LYS:NZ	8:2:443:GLY:O	2.32	0.59
10:4:564:ILE:O	10:4:672:LEU:HG	2.02	0.59
10:4:718:ARG:O	10:4:722:LYS:N	2.36	0.59
10:4:729:LEU:CB	10:4:730:GLU:HA	2.29	0.59
11:5:368:GLU:HA	11:5:371:THR:HG23	1.84	0.59
11:5:407:ARG:HG3	11:5:658:ARG:NH1	2.18	0.59
11:5:586:GLN:O	11:5:590:ASN:N	2.29	0.59
11:5:617:GLN:HA	11:5:620:GLU:HG2	1.85	0.59
12:6:158:LEU:HD11	12:6:166:LEU:HD22	1.85	0.59
12:6:603:SER:N	12:6:604:SER:CA	2.64	0.59
12:6:721:GLU:HA	12:6:724:ASP:HB2	1.85	0.59
12:6:775:GLU:O	12:6:779:GLU:N	2.20	0.59
13:7:490:GLY:N	13:7:533:ASP:OD1	2.36	0.59
2:B:52:LEU:HB2	4:D:125:PRO:HB2	1.84	0.59
2:B:160:LEU:HD11	2:B:184:PHE:CE2	2.38	0.59
2:B:168:LEU:HB3	2:B:170:LEU:CD2	2.33	0.59
5:E:425:VAL:HA	5:E:428:LEU:HD12	1.83	0.59
9:3:18:ASP:OD2	9:3:20:VAL:HB	2.03	0.59
9:3:48:TYR:HA	9:3:51:ASN:ND2	2.18	0.59
9:3:212:ARG:CZ	9:3:232:PRO:HB3	2.33	0.59
9:3:353:LEU:O	9:3:359:ILE:HG21	2.03	0.59
9:3:356:LYS:CB	9:3:359:ILE:HG23	2.27	0.59
10:4:557:ARG:NH1	10:4:668:ARG:HB3	2.18	0.59
10:4:656:ILE:O	10:4:663:THR:N	2.20	0.59
11:5:138:ILE:HG23	11:5:332:GLY:CA	2.33	0.59
11:5:566:ILE:HA	11:5:569:ALA:HB3	1.83	0.59
12:6:158:LEU:HD13	12:6:170:ILE:CD1	2.30	0.59
12:6:533:ILE:HG21	12:6:544:LYS:HB3	1.84	0.59
12:6:614:ARG:HG2	12:6:615:ASP:CA	2.33	0.59
13:7:366:LEU:O	13:7:368:ALA:HB3	2.03	0.59
13:7:636:SER:HA	13:7:639:ARG:HH21	1.68	0.59
2:B:157:LEU:HD11	3:C:137:HIS:CD2	2.38	0.58
3:C:79:MET:O	3:C:84:VAL:HG11	2.03	0.58
3:C:101:ASN:HD21	3:C:104:PHE:HD1	1.51	0.58
4:D:199:LEU:HD13	4:D:202:MET:CE	2.33	0.58
5:E:344:VAL:CG1	5:E:348:LEU:HD12	2.33	0.58
5:E:434:VAL:HG22	5:E:435:GLY:N	2.16	0.58
6:F:22:DT:H2 [?]	6:F:23:DT:C5	2.38	0.58
9:3:519:VAL:HG21	9:3:531:GLN:O	2.03	0.58
10:4:545:PHE:HB3	10:4:810:LYS:HD2	1.85	0.58
10:4:564:ILE:HD11	10:4:703:ASP:OD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:276:MET:HB3	11:5:330:ILE:CG1	2.33	0.58
11:5:633:LEU:O	11:5:637:GLU:HG3	2.03	0.58
12:6:158:LEU:HD21	12:6:166:LEU:HD22	1.86	0.58
12:6:606:ALA:HB2	12:6:609:THR:CB	2.23	0.58
12:6:828:TYR:OH	12:6:832:ARG:NH2	2.36	0.58
13:7:17:LEU:O	13:7:21:ILE:N	2.36	0.58
13:7:514:VAL:HG22	13:7:546:ILE:HD12	1.84	0.58
13:7:583:ASN:OD1	13:7:584:ILE:HG13	2.03	0.58
2:B:80:LYS:HE3	2:B:130:ALA:HA	1.85	0.58
8:2:343:LYS:HB2	8:2:371:GLY:CA	2.31	0.58
8:2:399:PRO:HB2	12:6:630:LEU:CB	2.33	0.58
8:2:609:PHE:HE2	8:2:677:PHE:HZ	1.51	0.58
8:2:663:LEU:HA	8:2:666:ASN:HB2	1.85	0.58
10:4:568:GLY:HA3	10:4:708:VAL:CB	2.19	0.58
11:5:440:SER:CA	11:5:480:ASP:HB2	2.31	0.58
12:6:340:ASN:HA	12:6:341:ARG:CB	2.32	0.58
12:6:357:GLN:CG	12:6:381:LEU:HD12	2.33	0.58
12:6:819:ILE:HG22	12:6:820:THR:N	2.08	0.58
13:7:262:CYS:SG	13:7:296:GLY:HA3	2.44	0.58
1:A:144:GLY:O	1:A:146:LEU:HB3	2.04	0.58
4:D:69:ASN:O	4:D:73:SER:N	2.36	0.58
4:D:176:SER:HB3	4:D:179:GLU:CG	2.32	0.58
4:D:189:ILE:HA	4:D:192:LYS:CG	2.33	0.58
4:D:259:THR:HG22	4:D:269:LEU:CD2	2.33	0.58
5:E:164:GLU:N	5:E:164:GLU:OE1	2.36	0.58
8:2:255:ILE:HD12	8:2:256:LEU:N	2.18	0.58
8:2:562:ARG:HD3	8:2:599:ALA:HB1	1.83	0.58
8:2:614:ASP:OD1	8:2:617:ARG:NH1	2.36	0.58
8:2:632:SER:HA	11:5:447:ALA:O	2.03	0.58
8:2:794:ARG:HH11	11:5:560:HIS:HA	1.68	0.58
9:3:375:ASP:HA	9:3:378:LYS:CG	2.33	0.58
9:3:439:GLY:CA	9:3:442:LEU:HB2	2.32	0.58
9:3:470:VAL:CG2	9:3:512:VAL:HG22	2.33	0.58
9:3:475:PHE:HB2	9:3:514:ALA:HB1	1.86	0.58
9:3:520:PHE:HB3	9:3:527:ARG:HH22	1.67	0.58
10:4:332:VAL:HG13	10:4:397:ILE:CG2	2.33	0.58
10:4:546:GLY:HA2	10:4:807:ALA:CB	2.32	0.58
11:5:72:ASN:ND2	11:5:75:ILE:HG13	2.19	0.58
12:6:611:ALA:HB3	12:6:613:VAL:N	2.17	0.58
13:7:453:ASP:O	13:7:694:ARG:NH2	2.35	0.58
1:A:100:MET:HE1	1:A:117:GLN:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:163:LEU:CB	2:B:189:MET:HE1	2.22	0.58
3:C:23:ASP:OD1	3:C:37:PRO:HB2	2.03	0.58
5:E:60:PRO:HB3	5:E:477:PHE:CE2	2.38	0.58
5:E:326:LEU:HD11	5:E:334:LEU:CD1	2.33	0.58
5:E:466:LEU:HD12	5:E:467:THR:N	2.18	0.58
8:2:582:LYS:CA	8:2:583:ASP:HB2	2.13	0.58
8:2:593:GLY:CA	8:2:597:VAL:HG21	2.24	0.58
8:2:626:GLN:HG3	8:2:628:SER:H	1.68	0.58
9:3:194:PRO:HG3	13:7:374:THR:CG2	2.30	0.58
10:4:308:VAL:HG11	10:4:325:LEU:CD1	2.33	0.58
10:4:433:ILE:HG22	10:4:435:VAL:H	1.68	0.58
12:6:175:TYR:CA	12:6:178:LEU:HD13	2.30	0.58
12:6:548:LEU:HD12	12:6:548:LEU:H	1.69	0.58
13:7:240:THR:HA	13:7:351:VAL:O	2.02	0.58
13:7:440:VAL:H	13:7:697:GLN:HG2	1.69	0.58
1:A:106:GLY:H	1:A:107:LEU:CB	2.16	0.58
1:A:147:VAL:N	1:A:148:ASP:HA	2.08	0.58
2:B:119:TRP:HA	2:B:122:LEU:HD12	1.85	0.58
3:C:80:PHE:HZ	3:C:108:ALA:HA	1.68	0.58
8:2:541:LEU:HB3	8:2:649:ALA:HA	1.85	0.58
8:2:580:VAL:HG11	8:2:592:GLU:H	1.69	0.58
9:3:43:ARG:HD2	9:3:46:GLN:HB2	1.85	0.58
9:3:553:ILE:HD13	11:5:630:ARG:HD2	1.85	0.58
10:4:281:VAL:O	10:4:285:VAL:HG13	2.03	0.58
11:5:32:LYS:HA	11:5:35:ILE:HB	1.84	0.58
11:5:450:THR:CG2	11:5:489:ASP:HB2	2.28	0.58
12:6:120:GLU:O	12:6:134:LYS:NZ	2.29	0.58
12:6:709:PHE:HB2	12:6:712:PHE:CE1	2.38	0.58
13:7:393:LEU:HB2	13:7:395:SER:H	1.65	0.58
13:7:689:LEU:O	13:7:692:ILE:HG22	2.04	0.58
3:C:50:LEU:C	3:C:54:LEU:HG	2.24	0.58
5:E:29:ILE:CD1	5:E:58:ILE:HG23	2.27	0.58
5:E:127:ARG:HG2	5:E:248:VAL:HG23	1.86	0.58
5:E:275:LEU:HD22	5:E:424:PHE:CD2	2.39	0.58
6:F:19:DT:H5'	9:3:448:THR:HG22	1.86	0.58
8:2:501:MET:HG2	8:2:512:LYS:CB	2.26	0.58
8:2:808:ARG:HG2	14:5:801:ATP:H4'	1.86	0.58
9:3:103:LEU:CD1	9:3:114:ILE:HD12	2.34	0.58
10:4:524:ARG:HG3	10:4:742:LEU:HD23	1.85	0.58
12:6:134:LYS:HG2	12:6:137:ARG:CD	2.34	0.58
12:6:640:GLU:CA	12:6:682:ALA:HA	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:658:GLN:HG3	12:6:660:THR:O	2.03	0.58
13:7:78:VAL:N	13:7:201:PHE:O	2.37	0.58
13:7:135:LYS:HA	13:7:136:ASP:CB	2.30	0.58
13:7:234:PHE:HA	13:7:237:GLN:CD	2.24	0.58
13:7:361:THR:O	13:7:364:LYS:HG3	2.04	0.58
13:7:361:THR:OG1	13:7:362:GLY:N	2.36	0.58
13:7:526:PHE:HB3	13:7:567:ALA:HB2	1.83	0.58
1:A:38:ARG:O	1:A:42:LYS:N	2.34	0.58
1:A:83:LYS:HG2	1:A:87:LEU:HD21	1.84	0.58
2:B:193:ARG:HB2	4:D:227:PHE:CE2	2.38	0.58
5:E:410:VAL:HG13	5:E:419:ILE:O	2.03	0.58
5:E:608:ALA:HB2	5:E:649:LEU:HD13	1.84	0.58
8:2:514:ALA:HB1	8:2:679:ILE:HG21	1.84	0.58
8:2:670:THR:OG1	8:2:672:PRO:HD2	2.03	0.58
8:2:842:VAL:O	8:2:846:VAL:HG23	2.03	0.58
9:3:129:LEU:CD2	9:3:153:TRP:HB3	2.30	0.58
9:3:699:ALA:O	9:3:703:GLU:HG3	2.03	0.58
10:4:578:LEU:HD13	10:4:630:CYS:HB3	1.86	0.58
11:5:441:GLY:HA3	11:5:442:LYS:C	2.23	0.58
12:6:656:MET:HA	12:6:656:MET:HE3	1.84	0.58
1:A:139:THR:HA	1:A:142:LYS:CD	2.34	0.58
3:C:12:ASP:CA	3:C:48:LEU:HB3	2.22	0.58
4:D:56:PRO:HA	4:D:59:ASP:HB2	1.86	0.58
5:E:89:VAL:HG12	5:E:90:ILE:HD12	1.86	0.58
5:E:287:VAL:HG12	5:E:291:LEU:CD2	2.34	0.58
5:E:297:ASP:O	5:E:301:ARG:HG3	2.03	0.58
8:2:266:GLU:OE1	8:2:266:GLU:N	2.30	0.58
8:2:431:LYS:HB2	8:2:433:ASN:CG	2.24	0.58
9:3:179:LEU:HG	9:3:296:GLY:HA2	1.85	0.58
9:3:200:VAL:HG13	9:3:210:HIS:O	2.03	0.58
9:3:293:ASN:O	9:3:326:VAL:HA	2.04	0.58
9:3:459:ALA:HB1	9:3:463:VAL:HB	1.85	0.58
9:3:535:LEU:HB2	9:3:539:LEU:CD1	2.34	0.58
10:4:687:PRO:HB2	10:4:690:GLU:HB3	1.85	0.58
11:5:257:LYS:HA	11:5:275:THR:HA	1.86	0.58
11:5:504:ILE:O	11:5:510:THR:HA	2.03	0.58
13:7:367:LYS:HA	13:7:368:ALA:O	2.04	0.58
1:A:32:TYR:HA	1:A:93:ARG:NH1	2.19	0.58
2:B:155:LYS:CA	2:B:158:LYS:HG2	2.33	0.58
4:D:258:VAL:HA	4:D:259:THR:OG1	2.03	0.58
5:E:98:ILE:H	5:E:99:ASP:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:158:ALA:HB2	5:E:237:LEU:HD13	1.86	0.58
8:2:365:THR:CB	8:2:373:PHE:HE1	2.17	0.58
8:2:544:ASP:HB3	8:2:547:THR:OG1	2.04	0.58
9:3:38:TYR:OH	9:3:99:SER:N	2.25	0.58
9:3:277:ILE:HD12	9:3:322:LEU:HD21	1.86	0.58
9:3:294:VAL:HA	9:3:326:VAL:HA	1.85	0.58
9:3:520:PHE:HB3	9:3:527:ARG:NH2	2.19	0.58
10:4:721:ALA:HA	10:4:724:LEU:HB2	1.85	0.58
11:5:166:ILE:HD11	11:5:256:LEU:HD23	1.86	0.58
11:5:369:ILE:HG23	11:5:370:LEU:HD12	1.85	0.58
11:5:398:LYS:HB2	11:5:406:LEU:HD13	1.85	0.58
12:6:530:VAL:HG22	12:6:545:LYS:HG2	1.85	0.58
12:6:600:GLY:O	12:6:644:MET:HG3	2.03	0.58
12:6:778:LYS:O	12:6:782:LYS:HG3	2.04	0.58
12:6:791:SER:HA	12:6:838:VAL:HG12	1.86	0.58
13:7:89:GLN:O	13:7:93:PHE:HB2	2.02	0.58
13:7:414:LEU:O	13:7:418:ILE:HD12	2.03	0.58
2:B:90:PRO:HB3	2:B:92:TRP:NE1	2.18	0.58
5:E:28:VAL:CG2	5:E:57:GLN:HB3	2.28	0.58
5:E:342:ASN:ND2	5:E:551:TRP:HA	2.19	0.58
8:2:277:GLU:HA	8:2:280:GLU:HB3	1.85	0.58
8:2:394:PRO:HA	8:2:397:VAL:HG23	1.84	0.58
8:2:481:GLU:O	8:2:485:ARG:HG2	2.04	0.58
8:2:496:LYS:O	8:2:500:SER:N	2.36	0.58
8:2:846:VAL:HG13	8:2:853:VAL:CG2	2.34	0.58
10:4:195:ARG:O	10:4:199:MET:HG2	2.04	0.58
10:4:433:ILE:HG12	10:4:469:VAL:HA	1.86	0.58
11:5:51:ARG:HA	11:5:54:ILE:CD1	2.33	0.58
11:5:565:ASP:O	11:5:569:ALA:N	2.32	0.58
12:6:162:GLU:HG2	12:6:166:LEU:CB	2.32	0.58
12:6:186:ARG:HA	12:6:189:VAL:HB	1.86	0.58
12:6:588:VAL:HA	12:6:591:PHE:CB	2.26	0.58
12:6:803:MET:CE	12:6:828:TYR:HA	2.34	0.58
13:7:78:VAL:HB	13:7:202:LEU:HA	1.85	0.58
13:7:228:ARG:HH22	13:7:326:HIS:HB2	1.68	0.58
13:7:546:ILE:HD11	13:7:559:ALA:HB2	1.86	0.58
3:C:97:LEU:HD13	3:C:105:PHE:HE2	1.67	0.57
5:E:381:ASP:HB2	5:E:384:ILE:CG1	2.30	0.57
8:2:286:TYR:O	8:2:289:ILE:N	2.29	0.57
8:2:609:PHE:HA	8:2:612:MET:HG3	1.86	0.57
9:3:348:ARG:O	9:3:352:LYS:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:248:LEU:HB2	10:4:258:TYR:HD1	1.67	0.57
10:4:603:ALA:CB	10:4:658:LYS:HE2	2.32	0.57
10:4:642:ARG:HD3	10:4:698:LEU:CD2	2.34	0.57
10:4:645:LEU:O	10:4:649:MET:N	2.34	0.57
10:4:688:VAL:HG22	10:4:838:THR:CG2	2.33	0.57
10:4:718:ARG:O	10:4:722:LYS:HG2	2.04	0.57
11:5:428:PHE:O	11:5:432:VAL:HG23	2.04	0.57
12:6:517:LYS:CA	12:6:520:VAL:HG22	2.31	0.57
12:6:753:ARG:HA	12:6:756:LYS:NZ	2.19	0.57
13:7:284:CYS:HB2	13:7:296:GLY:O	2.04	0.57
13:7:344:SER:HB3	13:7:345:PRO:HD2	1.86	0.57
13:7:364:LYS:O	13:7:367:LYS:N	2.37	0.57
13:7:441:ASP:HA	13:7:452:GLY:CA	2.34	0.57
1:A:102:TRP:CH2	4:D:148:LEU:HD13	2.39	0.57
2:B:10:THR:CB	2:B:182:ARG:HD2	2.35	0.57
2:B:155:LYS:HA	2:B:158:LYS:CD	2.33	0.57
4:D:260:ILE:HG13	4:D:266:GLU:HG3	1.85	0.57
5:E:541:ASN:HB3	5:E:544:THR:OG1	2.04	0.57
5:E:600:PRO:HB2	5:E:602:LEU:HD12	1.86	0.57
8:2:327:ARG:HH12	8:2:420:PRO:CD	2.17	0.57
9:3:440:VAL:HA	11:5:505:ALA:HB1	1.85	0.57
9:3:485:ALA:O	9:3:489:VAL:N	2.37	0.57
9:3:695:SER:HB3	13:7:573:ARG:HH12	1.67	0.57
9:3:737:LEU:C	9:3:738:LEU:HD12	2.24	0.57
10:4:311:CYS:SG	10:4:326:ILE:HG23	2.44	0.57
10:4:657:ALA:HA	10:4:662:ILE:HA	1.85	0.57
12:6:119:LEU:HD12	12:6:120:GLU:N	2.19	0.57
12:6:179:PRO:HA	12:6:182:GLN:NE2	2.19	0.57
12:6:326:LYS:H	12:6:327:TYR:HA	1.69	0.57
13:7:353:GLY:HA2	13:7:379:GLN:CB	2.34	0.57
13:7:529:MET:HE2	13:7:533:ASP:CB	2.34	0.57
1:A:166:ARG:HG3	1:A:187:SER:C	2.24	0.57
2:B:20:VAL:HG21	2:B:118:ASN:HB2	1.86	0.57
2:B:119:TRP:HA	2:B:122:LEU:CG	2.34	0.57
3:C:97:LEU:O	3:C:100:ILE:HG12	2.03	0.57
4:D:125:PRO:HA	4:D:128:CYS:HB3	1.86	0.57
4:D:151:ILE:HA	4:D:158:LEU:HD11	1.86	0.57
5:E:134:ILE:HA	5:E:142:CYS:CB	2.34	0.57
8:2:307:ARG:CB	8:2:404:ARG:HD2	2.34	0.57
8:2:441:LYS:CA	8:2:442:ASN:HB2	2.34	0.57
8:2:518:SER:CB	8:2:537:ILE:HB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:758:ILE:HG23	8:2:759:PRO:HD2	1.86	0.57
9:3:31:PHE:CG	9:3:32:LEU:HA	2.40	0.57
9:3:100:LEU:HB2	9:3:160:SER:HB2	1.87	0.57
9:3:429:ALA:HB3	9:3:469:VAL:O	2.05	0.57
10:4:417:LEU:HD13	10:4:419:VAL:CG1	2.34	0.57
10:4:542:LEU:HD11	10:4:828:LEU:CD1	2.34	0.57
11:5:65:MET:HA	11:5:68:LEU:HG	1.87	0.57
11:5:411:ASN:HB2	11:5:550:PHE:HA	1.84	0.57
12:6:266:SER:HB2	12:6:458:HIS:CD2	2.39	0.57
12:6:287:LEU:HD11	12:6:398:THR:CG2	2.35	0.57
12:6:377:LEU:HD22	12:6:452:ILE:HG21	1.85	0.57
13:7:343:LEU:HD21	13:7:381:VAL:HG11	1.86	0.57
13:7:383:GLN:HB2	13:7:386:LYS:NZ	2.18	0.57
13:7:441:ASP:H	13:7:452:GLY:HA2	1.69	0.57
13:7:454:ILE:HG22	13:7:456:VAL:HG23	1.86	0.57
13:7:654:GLU:HA	13:7:657:ASN:CB	2.34	0.57
2:B:56:ASP:OD1	2:B:56:ASP:N	2.36	0.57
2:B:57:ASP:OD1	2:B:58:LYS:N	2.36	0.57
2:B:79:LEU:HD22	2:B:84:LYS:HB2	1.86	0.57
4:D:78:PRO:CA	4:D:174:LEU:HD12	2.31	0.57
5:E:25:CYS:H	5:E:26:GLN:CB	2.16	0.57
5:E:226:ARG:O	5:E:230:ILE:HG13	2.03	0.57
5:E:345:ASN:O	5:E:349:SER:N	2.37	0.57
5:E:581:VAL:HB	5:E:630:ILE:CG1	2.34	0.57
5:E:604:ASN:CB	5:E:650:LEU:HD23	2.33	0.57
8:2:766:TYR:OH	8:2:823:MET:O	2.23	0.57
9:3:42:VAL:O	9:3:46:GLN:HG2	2.04	0.57
9:3:112:SER:O	9:3:116:VAL:N	2.36	0.57
9:3:196:LEU:HD12	9:3:250:PHE:CE1	2.40	0.57
9:3:254:GLN:HG2	9:3:278:LEU:HD12	1.87	0.57
9:3:370:SER:OG	11:5:404:MET:SD	2.63	0.57
9:3:570:ARG:HD2	11:5:614:LEU:HD12	1.85	0.57
10:4:607:ARG:HA	10:4:614:LEU:CA	2.16	0.57
10:4:701:ARG:HG3	10:4:796:ARG:NH2	2.19	0.57
11:5:163:SER:HA	11:5:293:THR:HA	1.86	0.57
11:5:422:LYS:O	11:5:425:LEU:HB3	2.03	0.57
11:5:626:PHE:O	11:5:630:ARG:N	2.23	0.57
12:6:732:VAL:HA	12:6:735:HIS:HD2	1.67	0.57
12:6:792:SER:HA	12:6:793:TYR:CB	2.22	0.57
13:7:435:LEU:HD13	13:7:454:ILE:CB	2.32	0.57
13:7:457:CYS:O	13:7:597:LEU:HA	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:581:LEU:CB	13:7:681:PHE:HE1	2.12	0.57
13:7:607:ASP:O	13:7:611:LYS:HG3	2.05	0.57
2:B:30:ARG:NH1	2:B:86:SER:OG	2.35	0.57
5:E:38:ALA:HA	5:E:251:ILE:HD11	1.86	0.57
5:E:271:TRP:CZ2	5:E:275:LEU:HD21	2.40	0.57
5:E:569:LEU:HD12	5:E:584:LEU:HD11	1.87	0.57
5:E:610:GLN:HA	5:E:613:THR:OG1	2.04	0.57
8:2:307:ARG:HB3	8:2:404:ARG:HD2	1.86	0.57
8:2:548:ALA:HA	14:2:901:ATP:H5'1	1.86	0.57
9:3:40:ASP:HA	9:3:43:ARG:HB3	1.84	0.57
10:4:292:ASP:CA	10:4:293:LEU:HD12	2.34	0.57
12:6:136:TYR:O	12:6:139:GLN:HB3	2.04	0.57
12:6:416:LYS:HE3	12:6:449:THR:HG21	1.86	0.57
12:6:781:ARG:CD	12:6:795:ILE:HB	2.35	0.57
13:7:21:ILE:O	13:7:25:LEU:HG	2.04	0.57
13:7:335:VAL:HG11	13:7:340:VAL:HA	1.85	0.57
13:7:536:ALA:O	13:7:540:VAL:HG23	2.04	0.57
13:7:580:PRO:HD2	13:7:678:LYS:O	2.05	0.57
13:7:633:VAL:CG1	13:7:638:MET:HB2	2.34	0.57
2:B:178:ILE:HA	2:B:181:LEU:HD21	1.87	0.57
4:D:174:LEU:HG	4:D:175:LEU:HD12	1.86	0.57
5:E:162:LEU:HD12	5:E:163:LEU:HD22	1.86	0.57
5:E:295:LEU:HB3	5:E:409:PHE:HE2	1.69	0.57
5:E:527:LEU:HG	5:E:568:VAL:CB	2.34	0.57
5:E:558:GLU:H	5:E:560:GLU:CB	2.16	0.57
8:2:281:LEU:HD12	8:2:282:HIS:N	2.20	0.57
8:2:327:ARG:NH1	8:2:420:PRO:HD3	2.20	0.57
8:2:369:SER:HA	8:2:371:GLY:N	2.19	0.57
9:3:211:TYR:HB3	13:7:6:PRO:O	2.04	0.57
9:3:277:ILE:O	9:3:278:LEU:HD23	2.03	0.57
10:4:521:LEU:HD21	10:4:741:VAL:CG1	2.34	0.57
11:5:182:MET:CE	11:5:189:THR:HG22	2.34	0.57
12:6:173:GLN:OE1	12:6:173:GLN:N	2.33	0.57
12:6:755:ILE:O	12:6:759:ARG:HG2	2.04	0.57
13:7:689:LEU:CA	13:7:692:ILE:HG22	2.34	0.57
1:A:36:ILE:HA	1:A:39:ASN:OD1	2.04	0.57
2:B:104:TYR:CD2	2:B:113:SER:HB3	2.40	0.57
3:C:95:LEU:O	3:C:168:LYS:HD3	2.05	0.57
3:C:118:LYS:HZ2	3:C:122:ASN:HB2	1.67	0.57
5:E:86:PHE:CZ	5:E:625:PHE:HB2	2.39	0.57
8:2:519:LEU:HD13	8:2:556:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:837:ALA:O	8:2:841:VAL:HG23	2.04	0.57
9:3:245:TYR:HD1	9:3:250:PHE:HZ	1.52	0.57
9:3:291:ARG:O	9:3:329:LEU:HG	2.05	0.57
10:4:228:LYS:O	10:4:232:GLU:HG3	2.04	0.57
10:4:419:VAL:HG12	10:4:463:VAL:CG2	2.32	0.57
10:4:458:LYS:NZ	12:6:413:PRO:HD3	2.20	0.57
10:4:524:ARG:HG3	10:4:742:LEU:CD2	2.34	0.57
10:4:649:MET:HE2	10:4:701:ARG:HG2	1.86	0.57
10:4:720:LEU:O	10:4:724:LEU:HG	2.04	0.57
10:4:777:MET:CE	10:4:833:ILE:HD11	2.34	0.57
10:4:802:ILE:HD13	12:6:735:HIS:HB3	1.85	0.57
11:5:90:PHE:O	11:5:94:ILE:HD12	2.05	0.57
11:5:482:PHE:CZ	11:5:550:PHE:HZ	2.22	0.57
1:A:17:LYS:O	1:A:21:ALA:N	2.38	0.57
1:A:29:LEU:HD21	1:A:96:ILE:CG2	2.26	0.57
1:A:193:GLN:O	1:A:197:GLU:HG3	2.05	0.57
2:B:182:ARG:N	2:B:183:PRO:HD2	2.20	0.57
3:C:72:VAL:HG12	3:C:74:LEU:H	1.69	0.57
3:C:96:ASP:O	3:C:100:ILE:HG23	2.05	0.57
4:D:98:ILE:HD12	4:D:99:GLU:N	2.20	0.57
4:D:258:VAL:HA	4:D:259:THR:CG2	2.35	0.57
5:E:257:SER:O	5:E:261:ALA:N	2.37	0.57
5:E:558:GLU:H	5:E:560:GLU:HB2	1.69	0.57
8:2:216:LEU:HD12	8:2:217:GLU:N	2.20	0.57
8:2:388:VAL:N	8:2:408:VAL:O	2.38	0.57
9:3:394:GLU:C	9:3:395:ASN:HD22	2.04	0.57
9:3:477:LYS:HB3	11:5:491:VAL:HG11	1.87	0.57
9:3:562:SER:HB2	11:5:623:SER:HB2	1.87	0.57
10:4:461:VAL:CG1	10:4:463:VAL:H	2.13	0.57
10:4:654:ILE:HB	10:4:665:LEU:HD11	1.86	0.57
11:5:50:LEU:CD2	11:5:54:ILE:HD11	2.34	0.57
11:5:301:TYR:CD2	11:5:327:TYR:HB3	2.39	0.57
12:6:109:GLU:CD	12:6:112:ARG:HD3	2.25	0.57
12:6:690:ASN:HB3	12:6:693:LEU:CG	2.34	0.57
12:6:715:ILE:HD11	12:6:837:ARG:HH12	1.70	0.57
13:7:26:VAL:O	13:7:63:TYR:HB2	2.04	0.57
13:7:72:ASN:HB3	13:7:74:GLU:OE1	2.05	0.57
13:7:258:ILE:HG23	13:7:300:MET:HB2	1.87	0.57
13:7:529:MET:CE	13:7:533:ASP:HB3	2.35	0.57
1:A:130:TYR:CE1	4:D:189:ILE:HG23	2.39	0.57
1:A:139:THR:HA	1:A:142:LYS:HG3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:VAL:HG23	1:A:189:PHE:HE2	1.70	0.57
2:B:7:LEU:HD21	2:B:12:SER:HA	1.87	0.57
2:B:79:LEU:O	2:B:83:SER:N	2.37	0.57
2:B:116:PRO:HD2	2:B:119:TRP:CD1	2.40	0.57
5:E:68:ARG:O	5:E:72:SER:HB3	2.04	0.57
5:E:478:TRP:O	5:E:482:ASP:N	2.35	0.57
5:E:527:LEU:HA	5:E:568:VAL:HB	1.87	0.57
8:2:219:THR:HB	8:2:223:GLY:C	2.25	0.57
8:2:364:CYS:N	8:2:368:LYS:HA	2.19	0.57
8:2:520:PHE:CE1	8:2:823:MET:HG2	2.40	0.57
8:2:596:LEU:HB3	8:2:644:CYS:SG	2.45	0.57
9:3:272:ARG:HD2	11:5:171:VAL:HG13	1.86	0.57
10:4:419:VAL:HG12	10:4:463:VAL:CB	2.34	0.57
10:4:538:LYS:O	10:4:542:LEU:HG	2.05	0.57
10:4:727:LEU:HD13	13:7:444:VAL:HG12	1.87	0.57
10:4:748:THR:O	10:4:751:ILE:HB	2.04	0.57
11:5:36:LEU:HD23	11:5:47:ARG:HD2	1.87	0.57
11:5:51:ARG:HA	11:5:54:ILE:CG1	2.35	0.57
12:6:357:GLN:HE21	12:6:381:LEU:CD1	2.17	0.57
12:6:452:ILE:HD12	12:6:452:ILE:N	2.18	0.57
12:6:738:ARG:HD3	12:6:740:GLU:H	1.70	0.57
12:6:752:ARG:O	12:6:755:ILE:HB	2.05	0.57
13:7:461:ASP:CB	13:7:569:PRO:HD2	2.35	0.57
1:A:22:ARG:N	1:A:23:SER:HA	2.19	0.57
2:B:154:ILE:HD12	2:B:155:LYS:N	2.20	0.57
5:E:129:TRP:HE3	5:E:133:ASN:ND2	2.03	0.57
5:E:244:GLY:HA3	5:E:603:ASN:H	1.70	0.57
5:E:262:ILE:HB	5:E:264:GLU:OE1	2.05	0.57
5:E:327:PHE:CE2	5:E:328:LEU:HG	2.40	0.57
5:E:528:CYS:H	5:E:568:VAL:HB	1.69	0.57
5:E:540:ARG:HH22	5:E:574:GLU:H	1.52	0.57
8:2:327:ARG:HH22	8:2:420:PRO:HD3	1.69	0.57
8:2:554:LYS:HA	8:2:557:GLU:CG	2.34	0.57
8:2:777:LYS:N	8:2:828:PHE:HA	2.02	0.57
14:3:1001:ATP:N9	11:5:650:ILE:HD11	2.20	0.57
10:4:315:ARG:HG2	10:4:410:GLN:CG	2.35	0.57
10:4:431:ASP:O	10:4:433:ILE:HG13	2.05	0.57
10:4:530:ILE:HB	10:4:537:LYS:NZ	2.20	0.57
10:4:578:LEU:CD2	10:4:672:LEU:HD22	2.25	0.57
11:5:435:ILE:HD11	11:5:475:GLY:HA3	1.86	0.57
11:5:502:ILE:HB	11:5:513:LEU:CG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:726:GLU:O	12:6:730:HIS:N	2.33	0.57
13:7:14:TYR:OH	13:7:105:ALA:HB1	2.05	0.57
13:7:87:GLN:O	13:7:91:GLU:N	2.38	0.57
13:7:396:ASP:OD1	13:7:400:ARG:NH2	2.33	0.57
13:7:686:PRO:O	13:7:690:LEU:N	2.33	0.57
1:A:5:LEU:HA	1:A:8:LYS:CG	2.33	0.56
1:A:33:HIS:HB3	1:A:35:ASP:OD1	2.05	0.56
1:A:84:ARG:HH22	4:D:217:ASN:HB3	1.68	0.56
3:C:12:ASP:HB3	3:C:49:TRP:CD1	2.39	0.56
3:C:12:ASP:HB3	3:C:49:TRP:N	2.20	0.56
4:D:62:ASP:HA	4:D:65:LYS:HB3	1.87	0.56
5:E:34:LEU:HD11	5:E:543:LEU:HD21	1.86	0.56
5:E:294:LEU:O	5:E:298:GLU:HG2	2.04	0.56
5:E:504:ARG:O	5:E:508:ASN:HB2	2.04	0.56
5:E:539:TYR:HB3	5:E:545:LEU:CD1	2.34	0.56
8:2:527:VAL:O	8:2:530:LYS:N	2.37	0.56
8:2:793:LEU:HD11	8:2:863:ILE:HG21	1.87	0.56
9:3:416:SER:CB	11:5:499:GLN:HE21	2.18	0.56
12:6:356:TRP:CZ3	12:6:358:LYS:HB2	2.32	0.56
13:7:208:SER:CB	13:7:209:GLN:HA	2.34	0.56
13:7:409:ASP:CG	13:7:412:ASN:HB3	2.25	0.56
13:7:470:LEU:HD21	13:7:564:LEU:CD2	2.35	0.56
1:A:199:LEU:HB2	1:A:205:LEU:CD1	2.34	0.56
2:B:52:LEU:HD22	4:D:125:PRO:O	2.05	0.56
3:C:47:PRO:CD	3:C:50:LEU:HD21	2.34	0.56
5:E:119:ASP:C	5:E:120:ILE:HD12	2.26	0.56
5:E:489:VAL:O	5:E:492:LEU:HB3	2.05	0.56
8:2:324:VAL:HG11	8:2:419:LYS:O	2.05	0.56
9:3:164:HIS:C	9:3:180:VAL:HG13	2.25	0.56
9:3:371:ILE:HD11	11:5:404:MET:CE	2.34	0.56
9:3:406:LEU:HD12	9:3:514:ALA:CB	2.33	0.56
10:4:776:GLY:HA2	10:4:779:LYS:HB3	1.86	0.56
10:4:794:THR:HG23	10:4:797:GLN:N	2.19	0.56
12:6:656:MET:HG3	12:6:709:PHE:CE1	2.40	0.56
13:7:88:TYR:CE2	13:7:92:LYS:HD3	2.40	0.56
13:7:203:TYR:CZ	13:7:339:LEU:HB2	2.39	0.56
13:7:490:GLY:HA2	13:7:493:LEU:CD2	2.35	0.56
13:7:514:VAL:HG22	13:7:546:ILE:CD1	2.36	0.56
1:A:94:THR:HG21	4:D:190:TRP:HZ3	1.70	0.56
2:B:52:LEU:HD12	2:B:53:ILE:H	1.70	0.56
3:C:69:VAL:HG13	3:C:70:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:60:PHE:CE1	4:D:136:LEU:HG	2.40	0.56
4:D:253:LYS:HB3	4:D:254:PRO:HD3	1.87	0.56
4:D:261:PRO:HG2	4:D:264:LYS:HB3	1.85	0.56
5:E:5:ILE:HD13	5:E:134:ILE:CG2	2.35	0.56
5:E:29:ILE:HD12	5:E:29:ILE:O	2.05	0.56
5:E:310:VAL:CG1	5:E:311:LYS:HD2	2.34	0.56
8:2:361:ILE:CB	8:2:373:PHE:HB2	2.34	0.56
8:2:814:LEU:HD12	8:2:814:LEU:N	2.20	0.56
9:3:163:ALA:HB3	9:3:164:HIS:ND1	2.21	0.56
9:3:329:LEU:HA	9:3:339:ARG:NH2	2.20	0.56
9:3:353:LEU:O	9:3:359:ILE:HD13	2.05	0.56
9:3:419:LEU:O	9:3:423:LEU:N	2.38	0.56
9:3:543:PHE:CD2	9:3:546:LEU:HD21	2.40	0.56
9:3:553:ILE:HD11	11:5:634:LEU:HD22	1.86	0.56
10:4:243:LEU:HB3	10:4:305:PRO:HA	1.86	0.56
10:4:319:PRO:CB	13:7:253:PRO:HB3	2.22	0.56
10:4:348:LYS:HD3	10:4:353:ASP:OD2	2.05	0.56
10:4:628:VAL:HA	10:4:670:SER:HB2	1.88	0.56
10:4:632:ASP:HA	10:4:674:SER:OG	2.05	0.56
10:4:770:LEU:CD1	10:4:801:MET:HB3	2.33	0.56
11:5:298:TYR:HA	11:5:328:ILE:HG12	1.86	0.56
11:5:437:VAL:HG12	11:5:439:THR:HG23	1.87	0.56
12:6:294:VAL:HB	12:6:392:GLY:N	2.21	0.56
12:6:597:TYR:OH	12:6:639:ASP:OD2	2.22	0.56
12:6:606:ALA:HB1	12:6:609:THR:O	2.05	0.56
13:7:260:TYR:CD2	13:7:281:LEU:HD11	2.40	0.56
13:7:318:LEU:HD22	13:7:320:GLN:CG	2.28	0.56
1:A:108:ASP:HB3	1:A:109:LEU:CA	2.35	0.56
8:2:341:CYS:HG	8:2:348:LEU:HD22	1.69	0.56
8:2:603:VAL:CG2	8:2:645:SER:HB2	2.34	0.56
8:2:624:MET:O	8:2:627:GLN:NE2	2.38	0.56
8:2:660:THR:HB	8:2:851:VAL:HG23	1.86	0.56
10:4:193:ASN:OD1	10:4:253:GLN:HB2	2.05	0.56
10:4:418:CYS:SG	10:4:419:VAL:N	2.79	0.56
11:5:382:GLU:HA	11:5:385:LYS:CB	2.26	0.56
11:5:441:GLY:CA	11:5:442:LYS:HB2	2.35	0.56
11:5:536:PRO:CD	11:5:643:ARG:HD3	2.36	0.56
12:6:130:GLY:HA2	12:6:131:GLU:HB3	1.87	0.56
12:6:298:SER:O	12:6:357:GLN:HB2	2.06	0.56
12:6:364:ASN:HB2	12:6:394:ARG:HD3	1.88	0.56
12:6:544:LYS:HE2	12:6:584:PHE:HE1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:560:VAL:CB	12:6:561:GLU:HA	2.23	0.56
12:6:832:ARG:O	12:6:836:ILE:HG13	2.05	0.56
13:7:269:VAL:CG1	13:7:281:LEU:HD21	2.34	0.56
1:A:168:LEU:HD21	1:A:206:GLN:CB	2.30	0.56
1:A:202:GLN:HG2	1:A:204:TYR:HE2	1.70	0.56
2:B:94:THR:HG22	2:B:96:LYS:HG2	1.87	0.56
4:D:59:ASP:HA	4:D:83:LEU:HD11	1.88	0.56
4:D:211:ASP:OD2	4:D:213:GLU:HB3	2.06	0.56
5:E:577:ASP:O	5:E:633:ARG:HA	2.06	0.56
8:2:459:ARG:HG3	8:2:460:GLU:C	2.26	0.56
10:4:181:TRP:CH2	13:7:149:ARG:HB2	2.40	0.56
10:4:233:MET:HE3	10:4:239:SER:HA	1.88	0.56
10:4:304:ARG:HH22	10:4:422:GLU:CB	2.17	0.56
10:4:366:GLN:N	10:4:366:GLN:OE1	2.37	0.56
10:4:530:ILE:HB	10:4:537:LYS:HZ1	1.69	0.56
10:4:601:LEU:HG	10:4:621:LEU:HG	1.87	0.56
11:5:91:GLU:HB3	11:5:134:THR:HG22	1.87	0.56
11:5:488:GLU:HG2	11:5:489:ASP:N	2.20	0.56
11:5:490:ARG:NH2	11:5:540:ILE:HG23	2.20	0.56
12:6:149:ASN:HB3	12:6:262:VAL:O	2.06	0.56
12:6:193:ALA:HB1	12:6:194:PRO:HD2	1.87	0.56
12:6:781:ARG:HD2	12:6:795:ILE:HB	1.88	0.56
13:7:211:CYS:O	13:7:214:ARG:HB2	2.06	0.56
1:A:151:LEU:HA	4:D:141:ARG:HD3	1.87	0.56
2:B:27:ILE:O	2:B:68:SER:HA	2.06	0.56
2:B:193:ARG:HD3	4:D:227:PHE:CZ	2.40	0.56
5:E:15:ILE:CD1	5:E:80:SER:HB2	2.35	0.56
5:E:343:TYR:OH	5:E:347:LYS:HE3	2.05	0.56
8:2:562:ARG:CD	8:2:599:ALA:HB1	2.36	0.56
8:2:591:LEU:HD22	11:5:270:MET:CE	2.35	0.56
9:3:118:PRO:HB2	9:3:122:ILE:CD1	2.35	0.56
9:3:155:LEU:HB3	9:3:157:PHE:CE1	2.41	0.56
10:4:188:GLN:HA	10:4:191:THR:HG22	1.88	0.56
10:4:209:LEU:O	10:4:209:LEU:HD23	2.05	0.56
11:5:26:GLU:O	11:5:29:LYS:HG2	2.05	0.56
11:5:487:ASP:CA	11:5:490:ARG:HB3	2.33	0.56
12:6:448:LEU:HD12	12:6:448:LEU:O	2.05	0.56
12:6:580:SER:HB2	12:6:583:GLN:CG	2.35	0.56
13:7:298:LEU:HD12	13:7:298:LEU:O	2.05	0.56
13:7:383:GLN:HB2	13:7:386:LYS:CE	2.36	0.56
4:D:79:TYR:HE2	4:D:81:HIS:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:59:VAL:O	5:E:61:ILE:HD12	2.06	0.56
5:E:68:ARG:HB2	5:E:95:PHE:CZ	2.41	0.56
5:E:256:TYR:HA	5:E:259:LEU:HB3	1.86	0.56
5:E:287:VAL:HG13	5:E:290:ARG:NH1	2.15	0.56
5:E:356:LYS:HG2	5:E:360:HIS:HE1	1.70	0.56
8:2:327:ARG:HH12	8:2:420:PRO:N	2.04	0.56
9:3:193:ARG:O	9:3:253:HIS:N	2.23	0.56
10:4:284:ILE:HD13	10:4:297:GLU:OE2	2.06	0.56
10:4:419:VAL:HG23	10:4:424:VAL:CG2	2.36	0.56
10:4:439:PHE:CZ	10:4:459:THR:HB	2.41	0.56
10:4:822:VAL:HA	10:4:825:ALA:CB	2.36	0.56
11:5:389:VAL:CA	11:5:392:LEU:HG	2.35	0.56
12:6:276:ILE:HD13	12:6:375:ARG:HG3	1.88	0.56
12:6:356:TRP:CE3	12:6:380:ILE:HG23	2.40	0.56
12:6:660:THR:CG2	12:6:673:ASN:HA	2.35	0.56
13:7:412:ASN:O	13:7:416:LYS:N	2.33	0.56
13:7:493:LEU:HD22	13:7:513:LEU:CD1	2.36	0.56
1:A:123:LEU:CD2	1:A:127:GLU:HB2	2.27	0.56
3:C:16:PHE:O	3:C:46:LEU:N	2.37	0.56
4:D:143:TYR:O	4:D:147:ARG:HG3	2.06	0.56
5:E:29:ILE:CD1	5:E:58:ILE:HA	2.36	0.56
8:2:212:LYS:NZ	8:2:271:PHE:O	2.31	0.56
8:2:307:ARG:CZ	8:2:398:PRO:HG3	2.36	0.56
9:3:231:TYR:CG	9:3:232:PRO:HD2	2.40	0.56
9:3:240:LYS:C	9:3:241:LEU:HD23	2.25	0.56
10:4:344:VAL:CA	10:4:359:GLU:HA	2.35	0.56
10:4:527:ALA:HB3	10:4:537:LYS:NZ	2.21	0.56
10:4:828:LEU:O	10:4:831:SER:OG	2.23	0.56
12:6:417:PRO:HG2	12:6:448:LEU:HD11	1.86	0.56
12:6:529:LEU:O	12:6:533:ILE:HG13	2.06	0.56
12:6:723:ILE:HG22	12:6:727:LEU:HG	1.88	0.56
1:A:15:ARG:HH22	11:5:670:PRO:CD	2.19	0.56
1:A:78:CYS:CA	1:A:81:ARG:HB3	2.36	0.56
1:A:109:LEU:HD23	1:A:109:LEU:O	2.06	0.56
1:A:162:PHE:CE1	1:A:192:ARG:HB3	2.41	0.56
3:C:18:CYS:SG	3:C:74:LEU:HA	2.46	0.56
5:E:150:ASP:CB	5:E:152:LEU:HB2	2.36	0.56
5:E:256:TYR:CD1	5:E:259:LEU:HD22	2.41	0.56
5:E:277:THR:HG21	5:E:295:LEU:HD11	1.88	0.56
5:E:490:GLU:HA	5:E:493:ASN:ND2	2.21	0.56
5:E:525:TYR:HA	5:E:565:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:319:ARG:HB2	8:2:427:THR:HG22	1.87	0.56
9:3:435:ARG:NH1	9:3:477:LYS:O	2.39	0.56
10:4:276:ILE:HD11	10:4:303:VAL:CG2	2.35	0.56
10:4:331:LEU:HA	10:4:431:ASP:O	2.05	0.56
10:4:527:ALA:HB1	10:4:530:ILE:CD1	2.23	0.56
10:4:621:LEU:CA	10:4:624:SER:HB2	2.36	0.56
11:5:53:ASN:HB3	11:5:58:ASN:HB3	1.88	0.56
11:5:588:GLU:HB3	11:5:593:GLU:HB3	1.88	0.56
12:6:702:THR:CG2	12:6:704:PRO:HG2	2.36	0.56
13:7:22:THR:HG22	13:7:25:LEU:HD12	1.87	0.56
13:7:88:TYR:HA	13:7:91:GLU:HB2	1.88	0.56
13:7:196:LEU:CD2	13:7:197:THR:HG23	2.36	0.56
13:7:228:ARG:NH2	13:7:327:ILE:H	2.04	0.56
13:7:650:PRO:HB3	13:7:706:ASP:HA	1.86	0.56
1:A:15:ARG:O	1:A:19:LEU:HG	2.05	0.56
3:C:86:ASN:HA	3:C:89:LYS:HD3	1.87	0.56
4:D:170:SER:HB3	4:D:175:LEU:CD1	2.30	0.56
4:D:291:VAL:HG22	4:D:292:ALA:O	2.05	0.56
5:E:98:ILE:CA	5:E:99:ASP:HB3	2.35	0.56
5:E:315:THR:H	5:E:316:LEU:HB3	1.71	0.56
5:E:527:LEU:HG	5:E:568:VAL:HB	1.86	0.56
8:2:444:PHE:HB3	12:6:303:GLU:OE2	2.05	0.56
8:2:541:LEU:HB3	8:2:649:ALA:CB	2.35	0.56
10:4:441:SER:HA	10:4:459:THR:HA	1.87	0.56
10:4:504:GLN:HG2	10:4:505:ASP:N	2.21	0.56
10:4:607:ARG:CA	10:4:614:LEU:HA	2.16	0.56
11:5:375:ALA:HB3	11:5:385:LYS:NZ	2.21	0.56
12:6:363:GLU:HB3	12:6:374:PRO:HB2	1.88	0.56
12:6:516:LEU:O	12:6:520:VAL:HG13	2.06	0.56
12:6:588:VAL:CA	12:6:591:PHE:HB3	2.28	0.56
12:6:818:GLU:C	12:6:819:ILE:HD12	2.26	0.56
13:7:88:TYR:O	13:7:92:LYS:HG2	2.06	0.56
13:7:520:ILE:HA	13:7:562:SER:CB	2.29	0.56
1:A:71:GLN:CA	1:A:74:VAL:HB	2.30	0.55
1:A:101:ALA:O	1:A:105:ASN:ND2	2.39	0.55
3:C:53:ILE:HA	3:C:56:ILE:HG13	1.86	0.55
3:C:112:ILE:HD12	3:C:120:LEU:CD1	2.36	0.55
5:E:13:ASN:HA	5:E:16:LEU:CD1	2.37	0.55
5:E:36:ILE:HA	5:E:39:LEU:CG	2.34	0.55
5:E:60:PRO:HG3	5:E:478:TRP:HE1	1.71	0.55
5:E:293:PRO:HA	5:E:296:GLN:CB	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:212:LYS:HG3	8:2:274:VAL:HG11	1.88	0.55
8:2:338:LYS:HE3	8:2:380:THR:CG2	2.36	0.55
9:3:179:LEU:HA	9:3:296:GLY:C	2.26	0.55
9:3:250:PHE:CD1	13:7:235:LEU:HD22	2.41	0.55
9:3:299:LYS:CG	9:3:322:LEU:HG	2.36	0.55
9:3:658:LYS:HA	9:3:661:GLN:CD	2.26	0.55
10:4:243:LEU:HD22	10:4:305:PRO:CB	2.35	0.55
10:4:272:MET:O	10:4:276:ILE:HG13	2.06	0.55
10:4:364:VAL:HB	12:6:420:THR:O	2.06	0.55
10:4:397:ILE:HB	10:4:417:LEU:CG	2.37	0.55
10:4:644:VAL:O	10:4:648:VAL:HG23	2.05	0.55
11:5:62:THR:HA	11:5:138:ILE:O	2.06	0.55
11:5:260:GLU:CD	11:5:272:ARG:HG2	2.26	0.55
11:5:300:ILE:CD1	11:5:326:PRO:HA	2.36	0.55
11:5:301:TYR:HD2	11:5:327:TYR:HD2	1.53	0.55
12:6:288:LEU:HG	12:6:290:ILE:CD1	2.36	0.55
12:6:751:LEU:O	12:6:755:ILE:N	2.38	0.55
13:7:254:ALA:O	13:7:308:SER:N	2.37	0.55
13:7:363:PHE:HA	13:7:366:LEU:HD13	1.88	0.55
13:7:374:THR:O	13:7:375:TYR:HB3	2.06	0.55
1:A:173:GLU:OE1	1:A:173:GLU:N	2.39	0.55
3:C:27:LEU:HB2	3:C:36:ARG:O	2.05	0.55
3:C:109:ILE:O	3:C:112:ILE:HG22	2.07	0.55
4:D:258:VAL:CA	4:D:259:THR:HG23	2.36	0.55
5:E:70:HIS:O	5:E:73:GLN:N	2.35	0.55
8:2:264:PRO:HA	8:2:267:MET:HB3	1.88	0.55
8:2:490:ASP:HB3	8:2:493:ILE:HG23	1.87	0.55
8:2:785:LYS:NZ	8:2:789:VAL:HG21	2.22	0.55
9:3:195:LYS:HZ3	13:7:371:LEU:HB2	1.71	0.55
9:3:470:VAL:HB	9:3:512:VAL:HG13	1.88	0.55
10:4:567:CYS:HB3	10:4:675:ALA:HB3	1.87	0.55
10:4:818:GLU:HG3	10:4:820:GLU:N	2.22	0.55
11:5:602:TYR:O	11:5:605:TYR:HB3	2.06	0.55
12:6:530:VAL:HA	12:6:533:ILE:HG13	1.89	0.55
12:6:640:GLU:OE2	12:6:683:ASN:ND2	2.31	0.55
13:7:311:GLN:HG2	13:7:312:GLU:N	2.22	0.55
13:7:428:VAL:HG13	13:7:598:PHE:CD2	2.37	0.55
13:7:458:LEU:HB2	13:7:566:ALA:HB2	1.88	0.55
13:7:461:ASP:CG	13:7:569:PRO:HD2	2.27	0.55
13:7:490:GLY:CA	13:7:493:LEU:HG	2.31	0.55
2:B:99:ASP:O	2:B:103:GLN:N	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:88:ILE:HB	3:C:127:LEU:HD12	1.87	0.55
4:D:253:LYS:HB3	4:D:254:PRO:CD	2.37	0.55
5:E:425:VAL:O	5:E:429:THR:HG23	2.06	0.55
8:2:271:PHE:CE2	8:2:295:VAL:HG21	2.42	0.55
9:3:112:SER:O	9:3:116:VAL:HG23	2.06	0.55
9:3:259:GLN:HB2	9:3:273:SER:HB3	1.88	0.55
9:3:360:PHE:HA	9:3:363:LEU:HD12	1.89	0.55
10:4:344:VAL:C	10:4:360:ILE:HD12	2.27	0.55
10:4:348:LYS:HG2	10:4:354:HIS:O	2.06	0.55
10:4:351:VAL:HB	10:4:373:ARG:O	2.06	0.55
10:4:718:ARG:HG3	13:7:661:VAL:CG1	2.35	0.55
12:6:308:SER:HA	12:6:319:ASP:CB	2.36	0.55
12:6:400:VAL:HG21	12:6:455:LEU:HG	1.88	0.55
12:6:401:GLU:O	12:6:402:ILE:HG12	2.05	0.55
12:6:566:ARG:HB3	12:6:567:GLY:O	2.06	0.55
12:6:780:LEU:CD2	12:6:781:ARG:HG3	2.36	0.55
13:7:455:ASN:HA	13:7:563:ILE:O	2.07	0.55
1:A:149:ILE:HG22	1:A:151:LEU:HD12	1.89	0.55
4:D:286:LEU:HG	4:D:293:LEU:HD11	1.88	0.55
5:E:227:LYS:O	5:E:231:HIS:ND1	2.32	0.55
5:E:472:ARG:HA	5:E:475:SER:HB2	1.88	0.55
8:2:204:SER:HA	8:2:207:ILE:HG13	1.88	0.55
8:2:274:VAL:O	8:2:278:ALA:N	2.25	0.55
8:2:497:ILE:HD13	8:2:823:MET:HE3	1.89	0.55
9:3:45:ILE:HG22	9:3:49:ASN:ND2	2.21	0.55
9:3:97:ILE:HA	9:3:156:SER:OG	2.07	0.55
9:3:196:LEU:HD23	9:3:197:ILE:N	2.21	0.55
9:3:234:GLU:OE2	9:3:240:LYS:HA	2.07	0.55
9:3:254:GLN:HB2	9:3:283:VAL:HG22	1.89	0.55
9:3:300:SER:OG	11:5:245:HIS:HB3	2.06	0.55
9:3:673:GLN:O	9:3:676:ILE:HB	2.07	0.55
10:4:314:MET:CG	10:4:413:HIS:HD2	2.20	0.55
10:4:523:ALA:HA	10:4:526:ILE:CD1	2.36	0.55
11:5:260:GLU:OE2	11:5:272:ARG:N	2.38	0.55
11:5:502:ILE:O	11:5:513:LEU:N	2.40	0.55
13:7:28:PHE:HE2	13:7:31:ASP:HB2	1.72	0.55
13:7:110:ALA:HA	13:7:113:PHE:CD2	2.38	0.55
13:7:458:LEU:CD2	13:7:598:PHE:HB2	2.36	0.55
13:7:543:GLN:NE2	13:7:559:ALA:O	2.39	0.55
13:7:670:ASP:OD1	13:7:671:SER:N	2.39	0.55
2:B:127:PHE:O	2:B:131:LYS:HD3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:315:THR:HA	5:E:316:LEU:C	2.27	0.55
8:2:268:LEU:O	8:2:272:ASP:N	2.32	0.55
9:3:470:VAL:CB	9:3:512:VAL:HG22	2.35	0.55
10:4:289:LEU:HD22	10:4:293:LEU:CD2	2.31	0.55
10:4:616:LEU:HB2	12:6:362:GLN:OE1	2.06	0.55
10:4:722:LYS:O	10:4:725:THR:HB	2.06	0.55
10:4:776:GLY:HA2	10:4:779:LYS:CB	2.37	0.55
11:5:436:ALA:CB	11:5:476:VAL:HB	2.35	0.55
12:6:140:ILE:O	12:6:144:LYS:N	2.38	0.55
12:6:544:LYS:HE2	12:6:584:PHE:CE1	2.41	0.55
12:6:636:CYS:HB3	12:6:678:ILE:HG12	1.89	0.55
12:6:713:PHE:C	12:6:837:ARG:HH11	2.09	0.55
13:7:228:ARG:HD3	13:7:329:ARG:HD2	1.88	0.55
4:D:258:VAL:CG1	4:D:260:ILE:HG13	2.35	0.55
5:E:43:LYS:O	5:E:47:LEU:N	2.32	0.55
5:E:580:LEU:CD1	5:E:629:ILE:HD11	2.37	0.55
8:2:346:SER:OG	8:2:347:ILE:HA	2.07	0.55
8:2:354:ASP:CB	8:2:357:GLU:H	2.19	0.55
8:2:410:LEU:HB3	8:2:415:VAL:HA	1.87	0.55
8:2:541:LEU:CA	8:2:681:CYS:HB2	2.36	0.55
9:3:24:ARG:HD3	9:3:121:PHE:HD1	1.70	0.55
9:3:480:ASP:HA	9:3:483:ARG:HG3	1.88	0.55
10:4:236:LEU:CB	10:4:238:THR:HG23	2.34	0.55
10:4:517:ASP:CG	10:4:521:LEU:HB2	2.27	0.55
10:4:602:THR:N	10:4:619:GLY:HA3	2.21	0.55
10:4:607:ARG:NH2	10:4:612:LYS:O	2.40	0.55
10:4:633:GLU:HB3	10:4:636:LYS:CB	2.36	0.55
11:5:409:ASP:HB3	11:5:518:SER:CB	2.37	0.55
11:5:605:TYR:CE1	11:5:609:LYS:HE2	2.42	0.55
11:5:658:ARG:HA	11:5:661:GLU:OE1	2.06	0.55
12:6:174:TYR:HE1	12:6:267:PHE:HE2	1.55	0.55
12:6:293:THR:HG23	12:6:392:GLY:C	2.26	0.55
12:6:702:THR:HG22	12:6:705:ILE:HG12	1.89	0.55
12:6:811:ALA:CB	12:6:819:ILE:HG13	2.31	0.55
13:7:318:LEU:O	13:7:318:LEU:HD23	2.06	0.55
13:7:333:ILE:HG12	13:7:376:LEU:HB3	1.89	0.55
1:A:32:TYR:CD2	1:A:124:SER:HB3	2.42	0.55
1:A:110:MET:HE3	1:A:112:SER:CA	2.36	0.55
1:A:139:THR:HA	1:A:142:LYS:HD2	1.88	0.55
2:B:104:TYR:HD2	2:B:113:SER:HB3	1.71	0.55
3:C:96:ASP:OD2	3:C:99:SER:HB3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:492:LEU:O	5:E:496:ILE:HG13	2.07	0.55
8:2:302:THR:OG1	8:2:303:ILE:N	2.40	0.55
8:2:661:LEU:HB3	8:2:662:PRO:HD2	1.89	0.55
8:2:790:TYR:CZ	8:2:794:ARG:HB2	2.42	0.55
9:3:158:LYS:HB2	9:3:327:TYR:OH	2.07	0.55
9:3:445:ALA:HB3	9:3:499:LYS:HD2	1.89	0.55
10:4:265:PRO:O	10:4:269:ILE:HG13	2.06	0.55
10:4:421:ASP:O	10:4:424:VAL:HB	2.05	0.55
10:4:521:LEU:O	10:4:524:ARG:HG2	2.06	0.55
10:4:621:LEU:CB	10:4:654:ILE:HD11	2.37	0.55
11:5:500:GLN:HE21	11:5:516:ARG:HA	1.70	0.55
11:5:600:LYS:O	11:5:604:THR:HG23	2.06	0.55
12:6:364:ASN:OD1	12:6:365:ALA:N	2.40	0.55
12:6:547:ILE:CG2	12:6:588:VAL:HG21	2.36	0.55
12:6:804:ILE:O	12:6:808:GLU:HG3	2.06	0.55
13:7:80:ILE:O	13:7:205:LYS:N	2.27	0.55
13:7:370:LEU:O	13:7:370:LEU:HD13	2.06	0.55
2:B:55:THR:HG22	4:D:94:GLN:NE2	2.21	0.55
2:B:167:HIS:C	2:B:168:LEU:HD12	2.27	0.55
4:D:178:ASP:HA	4:D:181:LYS:HE2	1.88	0.55
5:E:349:SER:HA	5:E:351:TRP:CH2	2.41	0.55
5:E:389:GLY:HA2	5:E:392:PHE:CD2	2.41	0.55
5:E:493:ASN:HA	5:E:496:ILE:CD1	2.37	0.55
5:E:519:ILE:H	5:E:519:ILE:HD12	1.71	0.55
8:2:218:TYR:O	8:2:225:SER:OG	2.18	0.55
8:2:301:PRO:HA	8:2:302:THR:C	2.27	0.55
8:2:667:VAL:HG22	8:2:669:LEU:N	2.18	0.55
8:2:686:LEU:HD23	8:2:687:VAL:N	2.22	0.55
8:2:856:GLN:OE1	8:2:859:ARG:HD3	2.07	0.55
9:3:95:ARG:CZ	9:3:282:LEU:HD21	2.36	0.55
9:3:200:VAL:O	9:3:244:GLU:HB2	2.06	0.55
9:3:292:VAL:CG1	9:3:326:VAL:HG12	2.34	0.55
10:4:179:ILE:HA	10:4:186:SER:HA	1.89	0.55
10:4:319:PRO:HG2	13:7:309:ALA:HB2	1.87	0.55
10:4:445:ARG:HD2	10:4:450:GLN:O	2.05	0.55
10:4:578:LEU:HD22	10:4:630:CYS:SG	2.47	0.55
10:4:762:ILE:CA	10:4:817:VAL:HG12	2.36	0.55
11:5:197:PHE:HZ	11:5:251:ILE:HD11	1.71	0.55
11:5:368:GLU:O	11:5:371:THR:OG1	2.20	0.55
12:6:134:LYS:HG2	12:6:137:ARG:HD3	1.88	0.55
12:6:186:ARG:HG2	12:6:263:PHE:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:194:PRO:CG	12:6:261:ARG:HH21	2.20	0.55
12:6:292:GLY:C	12:6:394:ARG:HG2	2.26	0.55
12:6:572:CYS:O	12:6:712:PHE:HB3	2.07	0.55
13:7:362:GLY:HA3	13:7:364:LYS:N	2.21	0.55
13:7:516:ALA:C	13:7:561:THR:HG22	2.26	0.55
1:A:90:GLN:O	1:A:94:THR:N	2.33	0.55
1:A:105:ASN:O	1:A:152:SER:OG	2.25	0.55
2:B:19:ILE:O	2:B:22:ASN:ND2	2.30	0.55
2:B:184:PHE:CE1	3:C:136:ASN:HB2	2.42	0.55
4:D:257:THR:O	4:D:259:THR:HG23	2.07	0.55
5:E:75:ASP:HB3	5:E:118:ARG:NH1	2.20	0.55
5:E:505:ALA:HA	5:E:508:ASN:HB3	1.88	0.55
8:2:574:VAL:CG1	12:6:664:ALA:HB3	2.34	0.55
8:2:794:ARG:CG	8:2:798:ILE:HD11	2.29	0.55
9:3:119:ALA:HA	9:3:221:LEU:HD22	1.88	0.55
9:3:378:LYS:HA	9:3:381:ILE:CD1	2.37	0.55
10:4:435:VAL:HG22	10:4:466:VAL:CA	2.29	0.55
10:4:765:ALA:CB	10:4:819:LEU:HD12	2.29	0.55
11:5:209:ARG:HA	11:5:239:ASP:CA	2.34	0.55
11:5:379:PHE:HB3	11:5:568:ILE:HD13	1.89	0.55
11:5:414:LEU:HD12	11:5:522:ALA:HB2	1.89	0.55
12:6:164:GLY:HA2	12:6:167:ALA:HB3	1.89	0.55
12:6:559:THR:HG23	12:6:565:LEU:HD21	1.89	0.55
13:7:339:LEU:HD23	13:7:339:LEU:O	2.07	0.55
13:7:352:THR:OG1	13:7:380:PHE:HB3	2.06	0.55
13:7:362:GLY:CA	13:7:363:PHE:CB	2.81	0.55
2:B:197:THR:HG22	4:D:263:LEU:CD2	2.37	0.55
3:C:50:LEU:CD1	3:C:54:LEU:HD11	2.37	0.55
3:C:127:LEU:HD23	3:C:127:LEU:C	2.28	0.55
5:E:41:ALA:HA	5:E:44:MET:SD	2.47	0.55
5:E:271:TRP:HA	5:E:274:ILE:HD12	1.88	0.55
5:E:323:ASP:O	5:E:405:ILE:HA	2.07	0.55
5:E:348:LEU:HB2	5:E:350:LEU:CD2	2.37	0.55
5:E:558:GLU:HB2	5:E:559:SER:C	2.27	0.55
8:2:540:LEU:HA	8:2:648:ALA:HB3	1.89	0.55
8:2:776:PRO:HA	8:2:827:GLU:O	2.07	0.55
8:2:795:ARG:HB3	11:5:562:GLU:HG3	1.88	0.55
8:2:815:ARG:O	8:2:818:GLU:HG2	2.07	0.55
9:3:186:VAL:HG23	9:3:290:ASP:O	2.06	0.55
9:3:256:ILE:HG12	9:3:278:LEU:HD11	1.88	0.55
9:3:275:ASP:CG	9:3:320:LEU:HB3	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:87:ILE:N	11:5:88:PRO:HD2	2.22	0.55
11:5:149:ARG:O	11:5:272:ARG:NH2	2.40	0.55
11:5:526:ILE:HD12	11:5:526:ILE:O	2.07	0.55
11:5:673:GLN:HE22	11:5:675:ARG:HH21	1.55	0.55
12:6:167:ALA:HA	12:6:170:ILE:CD1	2.36	0.55
12:6:270:LEU:HD12	12:6:289:SER:HB2	1.87	0.55
12:6:689:TYR:CD2	12:6:716:LEU:HD12	2.41	0.55
12:6:805:ARG:HA	12:6:808:GLU:CD	2.28	0.55
1:A:2:TYR:HE2	1:A:78:CYS:HB2	1.71	0.54
1:A:38:ARG:HA	1:A:41:LEU:HB2	1.89	0.54
2:B:17:GLN:HB2	2:B:121:VAL:HG11	1.89	0.54
2:B:160:LEU:HD13	3:C:136:ASN:ND2	2.22	0.54
4:D:258:VAL:HG22	4:D:266:GLU:CG	2.37	0.54
5:E:494:ARG:O	5:E:498:LEU:HG	2.07	0.54
8:2:227:TYR:HA	8:2:230:ARG:HB2	1.89	0.54
8:2:663:LEU:HD23	8:2:663:LEU:O	2.07	0.54
9:3:155:LEU:O	9:3:324:ASN:ND2	2.41	0.54
9:3:294:VAL:CG2	9:3:326:VAL:HG13	2.36	0.54
9:3:437:SER:O	11:5:506:LYS:N	2.39	0.54
10:4:501:ILE:HD13	10:4:749:MET:CE	2.37	0.54
10:4:635:ASP:HA	10:4:694:LEU:HD11	1.90	0.54
11:5:166:ILE:CD1	11:5:256:LEU:HD23	2.36	0.54
11:5:338:GLU:N	11:5:339:THR:CA	2.70	0.54
11:5:364:PRO:HG2	11:5:365:LYS:HD3	1.89	0.54
12:6:354:LEU:HD13	12:6:355:ASP:OD2	2.07	0.54
12:6:606:ALA:HA	12:6:607:GLY:C	2.27	0.54
1:A:20:TYR:C	1:A:23:SER:HB3	2.26	0.54
1:A:31:MET:HG2	1:A:32:TYR:N	2.22	0.54
1:A:41:LEU:CA	1:A:44:VAL:HG12	2.37	0.54
1:A:77:LEU:HD13	3:C:50:LEU:HA	1.88	0.54
1:A:135:CYS:O	1:A:138:ILE:HG22	2.07	0.54
4:D:203:PRO:O	4:D:207:GLN:HG3	2.07	0.54
4:D:227:PHE:HA	4:D:277:MET:O	2.07	0.54
5:E:269:ASN:HA	5:E:272:LEU:HD12	1.89	0.54
5:E:325:TYR:CZ	5:E:406:ARG:HD2	2.42	0.54
5:E:492:LEU:HG	5:E:496:ILE:HD11	1.89	0.54
8:2:317:LEU:HG	8:2:428:GLY:O	2.08	0.54
8:2:327:ARG:NH2	8:2:420:PRO:HD3	2.22	0.54
8:2:524:PRO:CB	8:2:525:LYS:HA	2.35	0.54
9:3:119:ALA:CB	9:3:221:LEU:HD22	2.38	0.54
9:3:554:ASN:HB2	9:3:557:ARG:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:243:LEU:HD23	10:4:244:ASP:N	2.22	0.54
10:4:562:ILE:HB	10:4:703:ASP:OD2	2.07	0.54
10:4:650:GLU:HB3	12:6:586:LYS:HE2	1.88	0.54
10:4:678:ILE:CD1	10:4:693:ASP:HB2	2.37	0.54
11:5:36:LEU:CD2	11:5:47:ARG:HD2	2.37	0.54
11:5:365:LYS:HD2	11:5:365:LYS:N	2.22	0.54
11:5:625:ASN:HD21	11:5:681:ILE:CG2	2.20	0.54
12:6:566:ARG:NH1	12:6:656:MET:O	2.39	0.54
12:6:759:ARG:HA	12:6:812:ARG:HH21	1.72	0.54
13:7:415:ALA:CB	13:7:430:LYS:HD2	2.37	0.54
2:B:189:MET:SD	2:B:192:LEU:HD22	2.47	0.54
4:D:202:MET:HG2	4:D:207:GLN:HA	1.89	0.54
5:E:44:MET:HE1	5:E:255:ILE:HG22	1.88	0.54
8:2:338:LYS:HE3	8:2:380:THR:HG23	1.88	0.54
8:2:384:ASN:ND2	8:2:412:ALA:O	2.39	0.54
9:3:403:ILE:HG23	9:3:544:ASP:HB2	1.89	0.54
9:3:702:LEU:HD23	9:3:702:LEU:C	2.28	0.54
10:4:211:GLU:HG3	10:4:212:ARG:HG2	1.89	0.54
10:4:601:LEU:C	10:4:619:GLY:HA3	2.27	0.54
10:4:756:GLU:O	10:4:759:HIS:NE2	2.40	0.54
11:5:384:ILE:O	11:5:388:ILE:HG13	2.08	0.54
12:6:544:LYS:HA	12:6:547:ILE:CD1	2.37	0.54
12:6:641:PHE:CZ	12:6:680:ALA:HB3	2.42	0.54
12:6:764:ILE:O	12:6:818:GLU:HG2	2.07	0.54
12:6:776:LYS:HA	12:6:779:GLU:CG	2.36	0.54
12:6:802:SER:O	12:6:806:LEU:HG	2.07	0.54
13:7:67:LEU:CD2	13:7:125:MET:HA	2.38	0.54
13:7:196:LEU:HD11	13:7:270:PHE:CE1	2.42	0.54
13:7:427:ASP:OD2	13:7:722:VAL:HG11	2.07	0.54
13:7:452:GLY:H	13:7:694:ARG:HD3	1.72	0.54
1:A:136:ASP:O	1:A:139:THR:OG1	2.21	0.54
2:B:15:GLU:O	2:B:18:PHE:HB3	2.08	0.54
2:B:193:ARG:HB2	4:D:227:PHE:HE2	1.70	0.54
5:E:466:LEU:HD13	5:E:470:ARG:CZ	2.37	0.54
5:E:481:TRP:O	5:E:484:LEU:HB3	2.07	0.54
7:G:5:DA:H2'	7:G:6:DT:H72	1.89	0.54
8:2:257:ALA:O	8:2:261:ALA:N	2.40	0.54
8:2:526:ASN:HA	8:2:532:SER:CA	2.36	0.54
8:2:608:GLU:HG3	8:2:651:ASN:H	1.72	0.54
8:2:778:LEU:CA	8:2:829:VAL:HB	2.35	0.54
9:3:100:LEU:HB2	9:3:160:SER:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:107:ASP:HB2	9:3:110:PHE:HB3	1.89	0.54
9:3:558:ASP:OD2	11:5:627:VAL:HA	2.08	0.54
10:4:224:LEU:CD1	10:4:227:ILE:HG12	2.38	0.54
10:4:243:LEU:HB2	10:4:303:VAL:CG1	2.37	0.54
10:4:725:THR:O	10:4:728:TYR:HB2	2.07	0.54
11:5:64:ASN:O	11:5:68:LEU:HG	2.07	0.54
11:5:79:LEU:HD12	11:5:83:PRO:HA	1.89	0.54
11:5:97:VAL:O	11:5:101:ILE:HG13	2.07	0.54
12:6:669:HIS:CE1	12:6:671:THR:HG23	2.42	0.54
13:7:245:ILE:CD1	13:7:343:LEU:HD22	2.37	0.54
2:B:108:HIS:O	2:B:155:LYS:NZ	2.32	0.54
2:B:127:PHE:HA	2:B:131:LYS:HB3	1.88	0.54
2:B:127:PHE:HE2	2:B:142:ARG:HG2	1.71	0.54
3:C:5:ASP:HB3	3:C:8:ASP:CG	2.28	0.54
4:D:224:TRP:HB2	4:D:280:GLU:HB2	1.88	0.54
4:D:267:VAL:HB	4:D:268:GLU:O	2.07	0.54
5:E:148:VAL:CG1	5:E:150:ASP:HB2	2.37	0.54
5:E:474:VAL:O	5:E:477:PHE:HB3	2.07	0.54
5:E:540:ARG:NH2	5:E:573:ASP:HB3	2.22	0.54
8:2:383:ARG:NE	8:2:411:LEU:HD23	2.23	0.54
8:2:569:GLN:OE1	8:2:613:ASN:N	2.35	0.54
8:2:587:LYS:HG3	8:2:588:GLU:HG2	1.89	0.54
8:2:634:ALA:O	11:5:448:GLY:N	2.40	0.54
9:3:103:LEU:HB2	9:3:111:TRP:CE3	2.26	0.54
9:3:658:LYS:HG2	9:3:661:GLN:NE2	2.23	0.54
10:4:652:GLN:HE21	10:4:668:ARG:HA	1.73	0.54
11:5:161:ARG:CA	11:5:295:VAL:HG22	2.37	0.54
11:5:256:LEU:HD13	11:5:278:CYS:HB2	1.89	0.54
11:5:384:ILE:HG12	11:5:554:PHE:CD2	2.42	0.54
12:6:151:ILE:CD1	12:6:265:ILE:HG23	2.23	0.54
13:7:21:ILE:HG22	13:7:25:LEU:CD1	2.38	0.54
13:7:521:CYS:N	13:7:562:SER:O	2.39	0.54
1:A:170:ASP:OD2	1:A:204:TYR:HA	2.07	0.54
2:B:25:ILE:HD12	2:B:87:ILE:HD13	1.89	0.54
2:B:26:LYS:O	2:B:88:VAL:HG12	2.07	0.54
3:C:109:ILE:HA	3:C:112:ILE:CG2	2.37	0.54
4:D:218:MET:HA	4:D:219:ILE:C	2.27	0.54
5:E:129:TRP:HH2	5:E:143:PHE:HB3	1.72	0.54
5:E:414:GLY:O	5:E:417:GLY:N	2.38	0.54
7:G:7:DC:H2''	7:G:8:DG:H8	1.71	0.54
8:2:283:TYR:HB3	8:2:286:TYR:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:479:GLU:HA	8:2:482:ARG:HD3	1.89	0.54
8:2:850:LYS:HG2	8:2:851:VAL:N	2.22	0.54
9:3:104:ARG:HG3	9:3:111:TRP:CE3	2.43	0.54
9:3:172:THR:CG2	9:3:176:LEU:HB2	2.38	0.54
9:3:187:THR:O	9:3:257:THR:OG1	2.17	0.54
9:3:245:TYR:CD2	13:7:356:LEU:HD22	2.42	0.54
9:3:262:PRO:HA	9:3:265:ALA:HB2	1.89	0.54
9:3:472:ILE:HG21	9:3:475:PHE:HD1	1.72	0.54
9:3:519:VAL:CG2	9:3:534:ALA:HB2	2.30	0.54
9:3:654:PRO:HA	9:3:657:ARG:NH2	2.22	0.54
9:3:658:LYS:HA	9:3:661:GLN:NE2	2.21	0.54
10:4:248:LEU:HB3	10:4:258:TYR:HB2	1.90	0.54
10:4:506:LEU:HA	10:4:509:ILE:HD13	1.89	0.54
10:4:601:LEU:CG	10:4:621:LEU:HG	2.36	0.54
11:5:369:ILE:HD11	11:5:593:GLU:CA	2.32	0.54
11:5:461:GLU:CG	11:5:462:PHE:H	1.98	0.54
12:6:137:ARG:HA	12:6:140:ILE:CD1	2.38	0.54
12:6:142:PHE:HA	12:6:145:ILE:CG1	2.38	0.54
13:7:613:ALA:O	13:7:617:THR:N	2.40	0.54
13:7:709:ASP:O	13:7:712:ASP:HB3	2.07	0.54
2:B:193:ARG:HH21	4:D:226:LYS:HA	1.73	0.54
4:D:194:VAL:HG22	4:D:199:LEU:HD11	1.90	0.54
4:D:200:LYS:CA	4:D:201:TYR:HB2	2.37	0.54
6:F:23:DT:H1'	6:F:24:DT:C2	2.43	0.54
8:2:241:SER:HA	8:2:293:ILE:HG23	1.89	0.54
8:2:247:ARG:HH22	8:2:301:PRO:HG2	1.73	0.54
8:2:297:ILE:HG22	8:2:298:SER:H	1.73	0.54
8:2:493:ILE:O	8:2:497:ILE:HG13	2.07	0.54
8:2:560:ALA:CB	8:2:563:ALA:HB2	2.33	0.54
8:2:603:VAL:HG22	8:2:645:SER:CB	2.35	0.54
8:2:660:THR:C	8:2:850:LYS:HG3	2.28	0.54
8:2:812:SER:O	8:2:816:ILE:HG13	2.07	0.54
8:2:821:ALA:O	8:2:825:LEU:N	2.40	0.54
9:3:38:TYR:CD2	9:3:98:ILE:HG12	2.43	0.54
9:3:195:LYS:HE2	9:3:216:ASP:OD2	2.07	0.54
10:4:292:ASP:HA	10:4:293:LEU:CD1	2.36	0.54
10:4:322:ILE:O	10:4:439:PHE:HB3	2.08	0.54
11:5:301:TYR:CD2	11:5:327:TYR:CD2	2.96	0.54
11:5:625:ASN:O	11:5:628:THR:OG1	2.18	0.54
12:6:151:ILE:CD1	12:6:153:ILE:HG23	2.37	0.54
12:6:158:LEU:HD22	12:6:170:ILE:CD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:360:ARG:HG3	12:6:377:LEU:O	2.07	0.54
12:6:569:ILE:HA	12:6:805:ARG:HH11	1.71	0.54
12:6:608:LEU:CA	12:6:627:ALA:HB3	2.38	0.54
12:6:696:ARG:CZ	12:6:703:ALA:HB2	2.36	0.54
13:7:353:GLY:HA2	13:7:379:GLN:HB2	1.89	0.54
1:A:91:ARG:HA	4:D:190:TRP:CH2	2.42	0.54
1:A:123:LEU:HD21	1:A:127:GLU:CB	2.28	0.54
2:B:6:HIS:HA	2:B:7:LEU:C	2.28	0.54
3:C:82:THR:O	3:C:86:ASN:ND2	2.41	0.54
4:D:282:ILE:CD1	4:D:286:LEU:HD13	2.36	0.54
5:E:34:LEU:CD1	5:E:543:LEU:HD11	2.25	0.54
5:E:150:ASP:HB3	5:E:152:LEU:HB2	1.90	0.54
5:E:161:LYS:HB3	5:E:233:TYR:CE2	2.43	0.54
5:E:316:LEU:HD21	5:E:413:LEU:O	2.07	0.54
8:2:383:ARG:HH21	8:2:411:LEU:CD2	2.21	0.54
8:2:446:VAL:HG11	12:6:301:ARG:CB	2.35	0.54
8:2:612:MET:O	8:2:617:ARG:NH2	2.36	0.54
9:3:198:ARG:N	9:3:249:THR:OG1	2.33	0.54
9:3:254:GLN:CD	9:3:278:LEU:HD12	2.28	0.54
10:4:610:ASP:OD1	10:4:611:THR:N	2.40	0.54
11:5:485:MET:CE	11:5:490:ARG:HG3	2.38	0.54
11:5:568:ILE:HA	11:5:571:HIS:CB	2.36	0.54
12:6:300:VAL:HG22	12:6:357:GLN:HB3	1.88	0.54
12:6:308:SER:HA	12:6:319:ASP:CA	2.37	0.54
13:7:26:VAL:HG13	13:7:64:MET:HG2	1.90	0.54
13:7:395:SER:C	13:7:397:VAL:H	2.11	0.54
13:7:612:LEU:O	13:7:616:VAL:HG23	2.06	0.54
4:D:154:PHE:O	4:D:158:LEU:HG	2.08	0.54
5:E:499:ALA:HA	5:E:502:LEU:CD1	2.38	0.54
8:2:419:LYS:HG3	8:2:420:PRO:HD2	1.90	0.54
8:2:584:PRO:CD	8:2:585:ILE:HB	2.37	0.54
9:3:166:LEU:HD23	9:3:175:HIS:CD2	2.43	0.54
9:3:451:GLU:O	9:3:452:THR:OG1	2.18	0.54
10:4:653:THR:HG22	10:4:666:ASN:HA	1.88	0.54
10:4:678:ILE:HD11	10:4:693:ASP:CB	2.38	0.54
11:5:56:VAL:CG1	11:5:58:ASN:HB2	2.38	0.54
11:5:95:THR:O	11:5:99:LYS:N	2.29	0.54
12:6:112:ARG:HH21	12:6:180:PHE:HA	1.72	0.54
12:6:118:PHE:HD1	12:6:161:ARG:HH11	1.55	0.54
12:6:143:MET:CE	12:6:150:THR:H	2.21	0.54
12:6:822:SER:O	12:6:826:GLU:HG3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:260:TYR:HB2	13:7:269:VAL:HB	1.90	0.54
1:A:149:ILE:HD11	4:D:140:ILE:HD13	1.88	0.54
1:A:173:GLU:HB3	1:A:183:LEU:N	2.16	0.54
2:B:160:LEU:HG	2:B:163:LEU:CD1	2.38	0.54
2:B:175:LEU:HD12	2:B:178:ILE:HB	1.90	0.54
3:C:24:ILE:O	3:C:37:PRO:HA	2.08	0.54
4:D:258:VAL:HG13	4:D:260:ILE:HG13	1.90	0.54
5:E:418:SER:C	5:E:419:ILE:HD12	2.28	0.54
8:2:334:LEU:HD11	11:5:322:ALA:O	2.07	0.54
9:3:417:GLN:HG3	11:5:404:MET:CE	2.38	0.54
9:3:472:ILE:HB	9:3:514:ALA:CA	2.38	0.54
10:4:419:VAL:HG23	10:4:420:TYR:N	2.22	0.54
10:4:454:LYS:HA	13:7:277:THR:HG22	1.90	0.54
10:4:827:ARG:HA	10:4:830:ARG:HB2	1.88	0.54
11:5:256:LEU:N	11:5:276:MET:O	2.41	0.54
11:5:630:ARG:HE	11:5:648:ILE:CG2	2.21	0.54
12:6:823:PHE:HA	12:6:826:GLU:CD	2.27	0.54
13:7:242:ARG:HB3	13:7:350:ASP:OD1	2.07	0.54
13:7:470:LEU:CD2	13:7:564:LEU:HD22	2.38	0.54
13:7:511:GLY:HA2	13:7:515:LEU:HB2	1.90	0.54
1:A:84:ARG:HD2	3:C:3:TYR:C	2.28	0.53
3:C:109:ILE:CA	3:C:112:ILE:HG22	2.36	0.53
3:C:188:LYS:O	3:C:191:MET:HB2	2.07	0.53
3:C:192:PHE:CE2	11:5:43:GLN:HB2	2.43	0.53
4:D:200:LYS:N	4:D:201:TYR:HB2	2.22	0.53
5:E:41:ALA:HA	5:E:44:MET:HG2	1.90	0.53
5:E:96:LEU:HB3	5:E:98:ILE:HD13	1.91	0.53
5:E:308:ASN:CB	5:E:310:VAL:HG23	2.35	0.53
5:E:493:ASN:HA	5:E:496:ILE:CB	2.37	0.53
8:2:696:ALA:O	8:2:700:VAL:HG23	2.08	0.53
9:3:95:ARG:HH22	9:3:282:LEU:HD11	1.73	0.53
9:3:504:THR:HG22	13:7:316:GLN:NE2	2.23	0.53
9:3:674:GLU:HA	9:3:677:ASN:OD1	2.08	0.53
9:3:700:ARG:O	9:3:704:THR:HG23	2.07	0.53
10:4:195:ARG:HG2	10:4:279:CYS:SG	2.48	0.53
10:4:585:THR:HG21	10:4:628:VAL:N	2.19	0.53
11:5:433:SER:HB2	11:5:476:VAL:HG21	1.90	0.53
11:5:551:ASP:OD2	11:5:658:ARG:NH2	2.40	0.53
11:5:633:LEU:HD12	11:5:648:ILE:CD1	2.37	0.53
11:5:643:ARG:HH12	11:5:692:ALA:HA	1.73	0.53
12:6:568:ASP:OD1	12:6:569:ILE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:725:THR:O	12:6:729:SER:N	2.41	0.53
13:7:599:LEU:HD13	13:7:601:LEU:HD23	1.91	0.53
13:7:701:LYS:O	13:7:704:LEU:HD23	2.07	0.53
1:A:37:ILE:HA	1:A:40:ILE:CD1	2.37	0.53
5:E:311:LYS:HG3	5:E:415:TYR:CE2	2.43	0.53
5:E:577:ASP:O	5:E:633:ARG:HD2	2.08	0.53
8:2:297:ILE:HG22	8:2:298:SER:N	2.22	0.53
8:2:324:VAL:CG1	8:2:420:PRO:HA	2.38	0.53
8:2:549:LYS:HA	8:2:552:ILE:HD13	1.90	0.53
8:2:571:ALA:HB3	12:6:665:LYS:HE3	1.89	0.53
8:2:759:PRO:HG2	8:2:762:LEU:CG	2.38	0.53
9:3:500:ALA:N	9:3:501:GLY:HA3	2.24	0.53
10:4:348:LYS:HB3	10:4:353:ASP:OD1	2.08	0.53
10:4:356:MET:HB2	10:4:372:GLU:CG	2.35	0.53
10:4:376:CYS:CB	10:4:377:ASN:C	2.76	0.53
10:4:447:ASN:O	10:4:448:SER:OG	2.23	0.53
10:4:682:TYR:O	10:4:691:ASN:ND2	2.40	0.53
10:4:704:LEU:HD11	10:4:832:ALA:HB2	1.89	0.53
11:5:279:ASP:OD2	11:5:329:LYS:HE2	2.08	0.53
11:5:378:ILE:N	11:5:378:ILE:HD12	2.23	0.53
12:6:364:ASN:CB	12:6:394:ARG:HD3	2.38	0.53
12:6:397:PHE:CD1	12:6:459:VAL:HG22	2.42	0.53
12:6:574:VAL:CA	12:6:581:LYS:HZ1	2.20	0.53
13:7:17:LEU:O	13:7:21:ILE:HG13	2.08	0.53
13:7:101:ASP:OD2	13:7:104:SER:N	2.38	0.53
13:7:399:GLU:HA	13:7:402:MET:HB2	1.90	0.53
13:7:477:SER:OG	13:7:520:ILE:HD13	2.08	0.53
3:C:17:PRO:HA	3:C:45:SER:HA	1.90	0.53
4:D:56:PRO:HA	4:D:90:ARG:HH12	1.72	0.53
4:D:91:ILE:HD12	4:D:92:SER:N	2.24	0.53
5:E:39:LEU:O	5:E:42:THR:OG1	2.23	0.53
5:E:157:GLU:HA	5:E:161:LYS:HG2	1.90	0.53
5:E:308:ASN:HB3	5:E:310:VAL:CG2	2.36	0.53
5:E:363:PHE:HB3	5:E:368:ILE:HB	1.89	0.53
5:E:388:LEU:HG	5:E:392:PHE:CZ	2.42	0.53
8:2:548:ALA:HB2	14:2:901:ATP:C4	2.44	0.53
8:2:640:LEU:H	11:5:445:SER:CB	2.20	0.53
9:3:48:TYR:CE2	9:3:92:LEU:HG	2.43	0.53
9:3:198:ARG:O	9:3:248:SER:HB2	2.08	0.53
12:6:372:SER:O	12:6:373:MET:HB3	2.08	0.53
12:6:636:CYS:N	12:6:677:SER:O	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:81:ASP:HA	13:7:205:LYS:O	2.08	0.53
13:7:228:ARG:HH22	13:7:326:HIS:CB	2.20	0.53
13:7:259:ALA:H	13:7:305:SER:HB3	1.74	0.53
13:7:314:LYS:C	13:7:315:ILE:HD12	2.29	0.53
13:7:366:LEU:O	13:7:367:LYS:HD2	2.07	0.53
13:7:416:LYS:CD	13:7:426:LEU:HD12	2.37	0.53
1:A:109:LEU:CG	1:A:111:SER:HB3	2.32	0.53
2:B:160:LEU:HD23	2:B:160:LEU:O	2.07	0.53
4:D:94:GLN:HA	4:D:97:LEU:HB3	1.91	0.53
4:D:257:THR:O	4:D:269:LEU:HB2	2.09	0.53
5:E:24:SER:OG	5:E:55:GLN:HB2	2.09	0.53
5:E:66:GLU:HG3	5:E:70:HIS:CD2	2.43	0.53
5:E:287:VAL:HG22	5:E:290:ARG:HH12	1.73	0.53
5:E:384:ILE:O	5:E:388:LEU:HB2	2.08	0.53
5:E:488:LYS:HB3	5:E:491:LEU:CD2	2.39	0.53
5:E:646:LEU:HD12	5:E:646:LEU:O	2.08	0.53
6:F:10:DT:H2 ⁷	6:F:11:DC:C6	2.44	0.53
8:2:523:VAL:CG1	8:2:525:LYS:HB3	2.30	0.53
8:2:523:VAL:N	8:2:822:LYS:HZ1	2.06	0.53
8:2:536:ASP:HB3	8:2:645:SER:CA	2.36	0.53
9:3:440:VAL:HA	11:5:505:ALA:CB	2.38	0.53
10:4:311:CYS:HB2	10:4:326:ILE:HG23	1.91	0.53
10:4:330:GLY:HA3	10:4:399:LEU:HD21	1.91	0.53
10:4:682:TYR:HB2	10:4:691:ASN:HD21	1.72	0.53
10:4:693:ASP:OD1	10:4:694:LEU:N	2.41	0.53
11:5:45:ILE:O	11:5:48:ASP:HB2	2.08	0.53
11:5:63:VAL:HB	11:5:139:LEU:HA	1.90	0.53
11:5:90:PHE:HB2	11:5:137:LEU:CD2	2.38	0.53
11:5:398:LYS:O	11:5:405:ARG:HA	2.08	0.53
11:5:409:ASP:H	11:5:518:SER:CB	2.22	0.53
11:5:451:ALA:HA	11:5:467:GLY:HA3	1.89	0.53
12:6:811:ALA:O	12:6:815:CYS:N	2.42	0.53
12:6:831:LEU:O	12:6:835:ILE:HG13	2.09	0.53
13:7:225:LEU:H	13:7:241:VAL:HA	1.73	0.53
13:7:311:GLN:HB2	13:7:340:VAL:HG23	1.91	0.53
13:7:322:VAL:HG13	13:7:323:PRO:HD2	1.89	0.53
13:7:692:ILE:HA	13:7:695:LEU:CG	2.38	0.53
2:B:26:LYS:HD3	2:B:68:SER:OG	2.09	0.53
2:B:72:VAL:O	2:B:75:ILE:HG12	2.09	0.53
4:D:157:TYR:HA	4:D:160:GLN:HB2	1.91	0.53
5:E:313:PRO:O	5:E:316:LEU:HD22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:363:PHE:HD1	5:E:368:ILE:HD12	1.73	0.53
5:E:511:VAL:HA	5:E:514:LEU:CD1	2.38	0.53
5:E:581:VAL:N	5:E:630:ILE:O	2.32	0.53
7:G:14:DT:H2''	7:G:15:DC:C6	2.43	0.53
8:2:239:SER:O	8:2:240:GLU:HG2	2.08	0.53
8:2:524:PRO:HB2	8:2:525:LYS:CA	2.37	0.53
8:2:569:GLN:HG3	8:2:576:LEU:HD11	1.91	0.53
8:2:785:LYS:HG3	8:2:788:ARG:NH2	2.17	0.53
9:3:122:ILE:O	9:3:126:GLU:HG3	2.09	0.53
9:3:223:THR:HG21	11:5:245:HIS:H	1.73	0.53
9:3:443:THR:HG22	9:3:459:ALA:CA	2.37	0.53
10:4:333:LEU:HG	10:4:400:GLN:H	1.74	0.53
10:4:370:ARG:HD3	10:4:379:PRO:N	2.24	0.53
10:4:592:SER:CA	10:4:632:ASP:HB2	2.25	0.53
10:4:601:LEU:HB3	10:4:621:LEU:HG	1.91	0.53
10:4:618:SER:HB3	10:4:622:VAL:HG11	1.90	0.53
10:4:656:ILE:HG23	10:4:658:LYS:NZ	2.24	0.53
11:5:161:ARG:CB	11:5:295:VAL:HG22	2.38	0.53
11:5:479:ILE:O	11:5:522:ALA:HB3	2.09	0.53
12:6:721:GLU:OE1	12:6:721:GLU:N	2.36	0.53
13:7:610:GLU:O	13:7:614:GLU:N	2.30	0.53
13:7:700:ALA:O	13:7:704:LEU:N	2.42	0.53
1:A:97:LEU:HB3	1:A:131:LEU:CD1	2.39	0.53
3:C:25:PRO:HA	3:C:37:PRO:CA	2.39	0.53
3:C:36:ARG:N	3:C:37:PRO:HD2	2.23	0.53
3:C:162:THR:N	3:C:163:SER:CA	2.71	0.53
3:C:182:GLU:HA	3:C:185:LYS:HB2	1.90	0.53
5:E:389:GLY:O	5:E:393:ASP:N	2.39	0.53
8:2:631:ILE:HA	11:5:443:GLY:H	1.72	0.53
9:3:127:LYS:O	9:3:131:ASP:N	2.30	0.53
9:3:197:ILE:HB	9:3:249:THR:OG1	2.08	0.53
9:3:281:ASP:O	9:3:285:LYS:HE2	2.07	0.53
10:4:267:GLU:O	10:4:270:SER:OG	2.17	0.53
10:4:342:MET:HE3	12:6:448:LEU:HD22	1.91	0.53
11:5:97:VAL:O	11:5:100:ARG:HB2	2.09	0.53
11:5:165:ILE:HD12	11:5:262:PRO:HD3	1.91	0.53
11:5:277:THR:OG1	11:5:329:LYS:HA	2.09	0.53
12:6:173:GLN:HB3	12:6:177:PHE:CE2	2.43	0.53
12:6:651:ALA:HA	12:6:654:GLU:CB	2.39	0.53
12:6:801:GLU:O	12:6:804:ILE:HB	2.08	0.53
13:7:442:LYS:HB3	13:7:450:ILE:CG1	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:517:ASP:CA	13:7:561:THR:HG22	2.38	0.53
2:B:74:TRP:CH2	2:B:75:ILE:HG22	2.44	0.53
4:D:194:VAL:HG22	4:D:199:LEU:CD1	2.38	0.53
5:E:351:TRP:HB2	5:E:511:VAL:CG1	2.39	0.53
8:2:235:GLY:O	8:2:238:ASN:N	2.41	0.53
8:2:386:GLN:HB3	8:2:410:LEU:HD12	1.90	0.53
8:2:429:ILE:CD1	8:2:431:LYS:HE2	2.37	0.53
8:2:794:ARG:O	8:2:798:ILE:HG13	2.09	0.53
8:2:838:ILE:HG21	8:2:863:ILE:HG22	1.91	0.53
9:3:685:ASP:OD1	13:7:606:ARG:NH2	2.27	0.53
10:4:178:ARG:O	10:4:179:ILE:HB	2.09	0.53
10:4:276:ILE:O	10:4:280:MET:HG2	2.09	0.53
10:4:280:MET:HG3	10:4:301:TYR:CE2	2.44	0.53
10:4:463:VAL:HG23	10:4:463:VAL:O	2.08	0.53
10:4:630:CYS:HA	10:4:672:LEU:O	2.09	0.53
11:5:277:THR:OG1	11:5:329:LYS:HD2	2.09	0.53
11:5:302:ASN:ND2	11:5:324:ARG:HG2	2.24	0.53
11:5:547:LEU:HA	11:5:550:PHE:CD2	2.44	0.53
11:5:656:ILE:HD11	11:5:684:PHE:CE2	2.44	0.53
12:6:112:ARG:HB2	12:6:180:PHE:HB3	1.89	0.53
13:7:227:VAL:HG11	13:7:329:ARG:HB3	1.90	0.53
13:7:260:TYR:CD1	13:7:298:LEU:HD13	2.43	0.53
13:7:348:ILE:HG22	13:7:384:HIS:HD2	1.73	0.53
1:A:84:ARG:HD2	3:C:3:TYR:CA	2.39	0.53
1:A:175:GLN:HG2	1:A:183:LEU:CD2	2.39	0.53
3:C:52:ARG:NH1	4:D:215:SER:OG	2.41	0.53
4:D:232:VAL:CB	4:D:271:ILE:HA	2.38	0.53
5:E:12:TYR:CE1	5:E:48:LEU:HD21	2.43	0.53
5:E:356:LYS:HG2	5:E:360:HIS:CE1	2.42	0.53
5:E:424:PHE:O	5:E:428:LEU:HG	2.09	0.53
5:E:488:LYS:O	5:E:491:LEU:HG	2.08	0.53
8:2:208:ALA:CA	8:2:211:LEU:HG	2.39	0.53
8:2:383:ARG:HH21	8:2:411:LEU:HD21	1.74	0.53
9:3:359:ILE:O	9:3:363:LEU:HG	2.09	0.53
9:3:437:SER:HA	9:3:440:VAL:H	1.72	0.53
9:3:687:ARG:NH1	9:3:697:ILE:O	2.42	0.53
10:4:352:CYS:N	10:4:353:ASP:CA	2.71	0.53
10:4:727:LEU:HD22	13:7:444:VAL:CB	2.39	0.53
11:5:27:ILE:O	11:5:30:SER:OG	2.20	0.53
11:5:643:ARG:HD2	11:5:691:ALA:O	2.09	0.53
12:6:109:GLU:HA	12:6:112:ARG:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:214:ARG:HB3	13:7:215:TYR:C	2.29	0.53
13:7:456:VAL:O	13:7:564:LEU:HG	2.09	0.53
1:A:44:VAL:HG13	1:A:45:SER:H	1.73	0.53
1:A:55:LYS:HA	1:A:72:TYR:OH	2.08	0.53
1:A:79:MET:HB3	4:D:206:LEU:CD1	2.38	0.53
1:A:103:ASN:OD1	1:A:104:ASN:N	2.41	0.53
1:A:127:GLU:CD	4:D:193:LEU:HD11	2.29	0.53
1:A:165:VAL:HG22	1:A:207:LYS:O	2.09	0.53
2:B:181:LEU:HD13	2:B:185:ILE:HD13	1.91	0.53
2:B:187:GLU:OE1	3:C:179:LYS:HD3	2.08	0.53
5:E:68:ARG:HH11	5:E:95:PHE:HA	1.73	0.53
5:E:73:GLN:CG	5:E:74:LEU:HG	2.32	0.53
5:E:254:GLN:O	5:E:257:SER:OG	2.19	0.53
8:2:500:SER:HB2	8:2:763:LEU:HD22	1.90	0.53
8:2:684:ARG:HB3	8:2:685:ASP:HB3	1.91	0.53
9:3:378:LYS:HA	9:3:381:ILE:HD12	1.91	0.53
9:3:403:ILE:HG22	9:3:405:ILE:CD1	2.38	0.53
9:3:553:ILE:HD13	11:5:630:ARG:CD	2.39	0.53
9:3:562:SER:O	9:3:566:LEU:N	2.42	0.53
9:3:683:TYR:OH	9:3:687:ARG:HD2	2.09	0.53
10:4:437:GLY:HA3	10:4:464:VAL:H	1.73	0.53
13:7:106:ILE:O	13:7:110:ALA:HB2	2.09	0.53
13:7:367:LYS:O	13:7:370:LEU:HD22	2.09	0.53
3:C:82:THR:HA	3:C:85:MET:CG	2.39	0.53
5:E:98:ILE:N	5:E:98:ILE:HD12	2.24	0.53
8:2:311:GLU:CD	12:6:354:LEU:HA	2.30	0.53
8:2:366:ASN:CB	8:2:367:CYS:CB	2.86	0.53
8:2:628:SER:HB2	8:2:640:LEU:O	2.09	0.53
9:3:220:THR:OG1	9:3:221:LEU:N	2.42	0.53
9:3:683:TYR:HA	9:3:686:LEU:CD1	2.39	0.53
10:4:284:ILE:HG23	10:4:290:ASP:HB2	1.91	0.53
10:4:499:ARG:CZ	10:4:749:MET:HB3	2.39	0.53
10:4:686:LEU:HG	10:4:687:PRO:HD2	1.91	0.53
10:4:726:ASN:C	10:4:727:LEU:HG	2.29	0.53
11:5:93:ALA:HA	11:5:96:GLN:CD	2.29	0.53
11:5:97:VAL:HG22	11:5:100:ARG:HD2	1.91	0.53
12:6:685:VAL:HG21	12:6:700:ASN:HB2	1.91	0.53
13:7:692:ILE:HD11	13:7:717:LEU:HG	1.89	0.53
1:A:52:GLU:O	1:A:56:GLU:N	2.42	0.52
1:A:79:MET:C	4:D:206:LEU:HD11	2.29	0.52
1:A:113:ILE:HD12	1:A:113:ILE:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:54:THR:HG22	2:B:55:THR:H	1.74	0.52
2:B:142:ARG:NH1	5:E:314:ASP:OD2	2.42	0.52
4:D:80:PRO:HG2	4:D:84:MET:HE3	1.90	0.52
4:D:284:ASP:O	4:D:287:ARG:HB3	2.09	0.52
5:E:31:VAL:O	5:E:61:ILE:N	2.41	0.52
5:E:271:TRP:O	5:E:275:LEU:HG	2.08	0.52
5:E:288:TYR:HA	5:E:291:LEU:CB	2.39	0.52
9:3:340:GLN:HG2	9:3:341:MET:N	2.24	0.52
9:3:408:VAL:HA	9:3:415:LYS:NZ	2.24	0.52
10:4:435:VAL:HG22	10:4:466:VAL:HG13	1.91	0.52
10:4:501:ILE:CD1	10:4:749:MET:HB2	2.39	0.52
10:4:530:ILE:HD12	10:4:530:ILE:N	2.24	0.52
11:5:77:LYS:HA	11:5:80:SER:CB	2.39	0.52
11:5:182:MET:HE2	11:5:189:THR:HG22	1.91	0.52
11:5:451:ALA:HB2	11:5:467:GLY:HA3	1.91	0.52
11:5:481:GLU:O	11:5:484:LYS:N	2.43	0.52
12:6:167:ALA:HA	12:6:170:ILE:HG13	1.89	0.52
13:7:599:LEU:HD13	13:7:601:LEU:CD2	2.40	0.52
1:A:157:PRO:HG3	4:D:138:PHE:CZ	2.43	0.52
3:C:75:LEU:CG	3:C:76:PRO:HD2	2.37	0.52
3:C:162:THR:OG1	3:C:163:SER:HA	2.09	0.52
4:D:188:LEU:HD23	4:D:189:ILE:N	2.24	0.52
4:D:199:LEU:HB3	4:D:202:MET:HB2	1.91	0.52
5:E:130:ASN:HB3	5:E:133:ASN:OD1	2.09	0.52
5:E:285:ALA:HB3	5:E:286:GLN:C	2.29	0.52
5:E:344:VAL:CG1	5:E:350:LEU:HD11	2.38	0.52
5:E:345:ASN:HA	5:E:350:LEU:CD1	2.39	0.52
5:E:428:LEU:HA	5:E:431:LEU:CD1	2.39	0.52
8:2:494:ILE:O	8:2:498:ILE:HD12	2.09	0.52
8:2:663:LEU:HD23	8:2:667:VAL:HG12	1.91	0.52
9:3:130:THR:HG22	9:3:153:TRP:CG	2.44	0.52
9:3:176:LEU:HD23	9:3:177:ASN:HB2	1.90	0.52
9:3:368:ALA:HB2	9:3:378:LYS:CE	2.39	0.52
9:3:413:THR:CG2	9:3:549:VAL:HG21	2.39	0.52
9:3:441:GLY:CA	9:3:462:MET:HB3	2.28	0.52
9:3:485:ALA:O	9:3:489:VAL:HG23	2.10	0.52
10:4:513:ALA:HA	10:4:518:LEU:HD13	1.90	0.52
11:5:545:THR:O	11:5:549:ARG:NH1	2.41	0.52
13:7:67:LEU:HD21	13:7:125:MET:HA	1.90	0.52
13:7:208:SER:HB3	13:7:209:GLN:CB	2.40	0.52
13:7:212:ALA:HA	13:7:216:ARG:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:393:LEU:HD12	13:7:393:LEU:O	2.08	0.52
13:7:433:LEU:HG	13:7:702:LEU:HD11	1.89	0.52
1:A:16:THR:HA	1:A:19:LEU:CD1	2.40	0.52
1:A:124:SER:OG	1:A:127:GLU:HG2	2.10	0.52
2:B:82:GLN:NE2	2:B:84:LYS:HD2	2.24	0.52
2:B:192:LEU:O	2:B:195:ILE:HG13	2.09	0.52
3:C:16:PHE:N	3:C:46:LEU:O	2.41	0.52
3:C:85:MET:O	3:C:88:ILE:HG12	2.10	0.52
4:D:249:ASN:HB3	4:D:257:THR:HG22	1.90	0.52
4:D:286:LEU:HD12	4:D:291:VAL:CG1	2.39	0.52
5:E:288:TYR:HA	5:E:291:LEU:HG	1.91	0.52
8:2:323:VAL:HG21	8:2:394:PRO:HD2	1.92	0.52
8:2:502:ALA:HB1	8:2:505:ILE:HD12	1.90	0.52
8:2:533:ILE:HG22	8:2:534:ARG:H	1.75	0.52
9:3:123:PRO:N	9:3:124:PRO:HD2	2.23	0.52
9:3:325:THR:OG1	9:3:326:VAL:N	2.42	0.52
9:3:443:THR:HA	9:3:458:GLU:O	2.09	0.52
10:4:654:ILE:HG22	10:4:656:ILE:HD11	1.91	0.52
10:4:719:GLU:O	10:4:723:HIS:N	2.40	0.52
10:4:775:VAL:O	10:4:779:LYS:HB2	2.10	0.52
11:5:45:ILE:HD11	11:5:67:HIS:CE1	2.45	0.52
11:5:79:LEU:HA	11:5:86:ILE:HD12	1.91	0.52
11:5:414:LEU:O	11:5:422:LYS:HD3	2.09	0.52
12:6:143:MET:HE2	12:6:150:THR:N	2.24	0.52
12:6:364:ASN:CG	12:6:394:ARG:HD3	2.29	0.52
13:7:201:PHE:CZ	13:7:337:GLY:HA2	2.44	0.52
13:7:255:VAL:HB	13:7:307:PHE:CE1	2.44	0.52
1:A:130:TYR:O	1:A:134:TYR:N	2.42	0.52
2:B:56:ASP:HB2	4:D:57:GLN:HG3	1.92	0.52
3:C:51:ALA:CA	3:C:54:LEU:HG	2.38	0.52
4:D:282:ILE:HD13	4:D:286:LEU:CD1	2.37	0.52
5:E:25:CYS:H	5:E:26:GLN:HB2	1.74	0.52
5:E:89:VAL:CG1	5:E:90:ILE:HD12	2.40	0.52
5:E:150:ASP:HB3	5:E:151:THR:CA	2.39	0.52
5:E:413:LEU:HD21	5:E:416:ARG:HD2	1.91	0.52
8:2:241:SER:OG	8:2:413:ASP:OD2	2.16	0.52
8:2:247:ARG:HH22	8:2:301:PRO:CG	2.23	0.52
8:2:419:LYS:CG	11:5:269:GLU:HG2	2.37	0.52
8:2:687:VAL:HG22	12:6:781:ARG:NH1	2.25	0.52
9:3:112:SER:HA	9:3:115:LEU:CD1	2.39	0.52
10:4:180:ILE:HB	10:4:183:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:331:LEU:HA	10:4:431:ASP:C	2.30	0.52
11:5:632:GLN:O	11:5:635:ILE:HB	2.08	0.52
12:6:130:GLY:HA3	12:6:131:GLU:C	2.29	0.52
12:6:164:GLY:O	12:6:168:MET:HG2	2.09	0.52
12:6:291:SER:HA	12:6:395:CYS:O	2.08	0.52
12:6:611:ALA:N	12:6:612:VAL:HA	2.23	0.52
12:6:805:ARG:HA	12:6:808:GLU:OE1	2.10	0.52
13:7:110:ALA:O	13:7:114:THR:HG23	2.09	0.52
13:7:366:LEU:C	13:7:367:LYS:HD2	2.29	0.52
13:7:451:ARG:NH2	13:7:694:ARG:HH22	2.07	0.52
2:B:58:LYS:HG2	2:B:58:LYS:O	2.09	0.52
2:B:95:THR:HA	2:B:98:LEU:HD12	1.91	0.52
2:B:151:ILE:HA	2:B:154:ILE:CG1	2.39	0.52
2:B:170:LEU:HD11	4:D:276:VAL:CG2	2.32	0.52
5:E:351:TRP:HB3	5:E:511:VAL:HG22	1.91	0.52
5:E:498:LEU:O	5:E:502:LEU:HG	2.09	0.52
5:E:515:GLU:OE1	8:2:827:GLU:HB3	2.09	0.52
8:2:660:THR:O	8:2:850:LYS:HA	2.10	0.52
9:3:191:LEU:HD23	9:3:192:VAL:N	2.24	0.52
10:4:248:LEU:CB	10:4:258:TYR:HB2	2.39	0.52
10:4:248:LEU:CD1	10:4:258:TYR:HA	2.40	0.52
10:4:572:THR:HG21	10:4:708:VAL:CG1	2.39	0.52
10:4:794:THR:CG2	10:4:796:ARG:HB3	2.39	0.52
11:5:573:ILE:H	11:5:573:ILE:HD12	1.74	0.52
12:6:151:ILE:HD12	12:6:151:ILE:O	2.09	0.52
12:6:574:VAL:HG12	12:6:575:GLY:N	2.25	0.52
12:6:679:LEU:HD23	12:6:680:ALA:N	2.24	0.52
13:7:335:VAL:HG12	13:7:340:VAL:HA	1.92	0.52
13:7:349:VAL:HG23	13:7:382:ARG:C	2.30	0.52
1:A:46:ASN:OD1	1:A:50:ASN:ND2	2.33	0.52
1:A:130:TYR:CE1	4:D:189:ILE:HG13	2.44	0.52
1:A:140:ASP:O	1:A:143:SER:OG	2.19	0.52
1:A:162:PHE:HD1	1:A:192:ARG:HA	1.73	0.52
2:B:168:LEU:CB	2:B:170:LEU:HD21	2.39	0.52
3:C:129:LEU:HD23	3:C:129:LEU:C	2.30	0.52
3:C:166:LEU:O	3:C:166:LEU:HD23	2.10	0.52
4:D:154:PHE:C	4:D:158:LEU:HG	2.30	0.52
4:D:227:PHE:CD1	4:D:277:MET:HA	2.38	0.52
5:E:292:TYR:HB2	5:E:293:PRO:CD	2.33	0.52
8:2:574:VAL:CG1	12:6:669:HIS:HA	2.39	0.52
9:3:201:HIS:CE1	9:3:243:THR:HA	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:360:PHE:HE2	9:3:379:LYS:HD3	1.75	0.52
9:3:434:GLY:C	9:3:478:MET:HG2	2.30	0.52
10:4:332:VAL:O	10:4:430:GLY:N	2.42	0.52
10:4:437:GLY:CA	10:4:464:VAL:H	2.23	0.52
10:4:563:ASN:ND2	10:4:671:ILE:HB	2.24	0.52
10:4:589:VAL:HB	10:4:629:CYS:SG	2.50	0.52
10:4:656:ILE:N	10:4:656:ILE:HD12	2.25	0.52
11:5:169:THR:HB	11:5:254:GLN:HG3	1.90	0.52
11:5:174:SER:HA	11:5:251:ILE:O	2.10	0.52
11:5:426:LEU:HD22	11:5:478:CYS:SG	2.49	0.52
12:6:162:GLU:HG3	12:6:165:ALA:HB3	1.91	0.52
12:6:655:ALA:CB	12:6:661:ILE:HD11	2.36	0.52
12:6:690:ASN:O	12:6:693:LEU:HB2	2.10	0.52
12:6:781:ARG:CG	12:6:795:ILE:HB	2.39	0.52
12:6:793:TYR:O	12:6:794:ARG:HD3	2.09	0.52
1:A:42:LYS:O	1:A:46:ASN:HB2	2.10	0.52
2:B:100:ARG:CA	2:B:103:GLN:HB2	2.39	0.52
2:B:155:LYS:HG3	2:B:158:LYS:HD3	1.91	0.52
2:B:196:HIS:ND1	4:D:263:LEU:HD21	2.25	0.52
3:C:46:LEU:HB3	3:C:50:LEU:CD1	2.39	0.52
3:C:47:PRO:CG	3:C:50:LEU:HD21	2.40	0.52
3:C:89:LYS:HB2	9:3:104:ARG:NH1	2.24	0.52
5:E:64:TYR:OH	5:E:90:ILE:HB	2.09	0.52
5:E:362:MET:HG2	5:E:399:TYR:CZ	2.44	0.52
5:E:502:LEU:O	5:E:506:ILE:HG13	2.10	0.52
8:2:235:GLY:HA2	8:2:283:TYR:OH	2.09	0.52
8:2:543:GLY:HA3	8:2:549:LYS:HZ3	1.75	0.52
8:2:587:LYS:HG3	8:2:588:GLU:H	1.74	0.52
8:2:676:ARG:HH22	11:5:418:PRO:HB3	1.74	0.52
9:3:377:ILE:HA	9:3:547:PHE:HE2	1.75	0.52
9:3:535:LEU:O	9:3:539:LEU:HD12	2.09	0.52
11:5:86:ILE:HG23	11:5:89:LEU:CD1	2.29	0.52
11:5:295:VAL:O	11:5:331:LEU:N	2.43	0.52
11:5:628:THR:O	11:5:632:GLN:N	2.40	0.52
12:6:103:VAL:O	12:6:107:THR:N	2.42	0.52
12:6:659:GLN:HG2	12:6:675:ARG:HG2	1.91	0.52
13:7:458:LEU:HD22	13:7:600:MET:HE3	1.92	0.52
13:7:459:MET:CE	13:7:584:ILE:HG12	2.39	0.52
13:7:479:ARG:HB3	13:7:519:GLY:HA3	1.92	0.52
1:A:83:LYS:HE3	4:D:206:LEU:O	2.09	0.52
2:B:94:THR:HG22	2:B:96:LYS:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:157:LEU:HD11	3:C:137:HIS:HD2	1.74	0.52
5:E:612:ILE:HA	5:E:615:GLU:CB	2.40	0.52
8:2:201:PRO:HG2	8:2:204:SER:OG	2.09	0.52
8:2:785:LYS:O	8:2:789:VAL:HG23	2.09	0.52
9:3:340:GLN:NE2	9:3:658:LYS:HD3	2.25	0.52
9:3:714:LYS:O	9:3:717:LEU:HD12	2.10	0.52
10:4:821:ASP:OD1	10:4:822:VAL:HG23	2.08	0.52
11:5:86:ILE:HG22	11:5:90:PHE:CE1	2.45	0.52
11:5:90:PHE:O	11:5:93:ALA:N	2.43	0.52
11:5:499:GLN:OE1	11:5:499:GLN:N	2.33	0.52
12:6:115:PHE:CE2	12:6:119:LEU:HD23	2.45	0.52
12:6:304:LEU:O	12:6:306:LYS:N	2.35	0.52
12:6:364:ASN:O	12:6:368:ILE:HG23	2.09	0.52
12:6:396:LYS:HB3	12:6:460:ILE:CG2	2.37	0.52
12:6:632:ASP:CA	12:6:676:THR:HG22	2.32	0.52
12:6:644:MET:HB3	12:6:648:ASP:OD2	2.09	0.52
12:6:651:ALA:HA	12:6:654:GLU:CG	2.40	0.52
12:6:821:PRO:HA	12:6:824:ILE:HG12	1.91	0.52
12:6:831:LEU:O	12:6:835:ILE:N	2.34	0.52
13:7:192:PHE:HB3	13:7:196:LEU:HD22	1.92	0.52
13:7:419:ALA:HB1	13:7:422:ILE:HG12	1.92	0.52
13:7:691:GLY:O	13:7:695:LEU:HG	2.09	0.52
5:E:57:GLN:OE1	5:E:58:ILE:N	2.41	0.52
5:E:140:ILE:HD12	5:E:140:ILE:O	2.10	0.52
5:E:252:SER:O	5:E:256:TYR:N	2.34	0.52
5:E:287:VAL:CG1	5:E:291:LEU:HD21	2.37	0.52
5:E:572:ILE:HG21	5:E:579:TYR:CZ	2.44	0.52
8:2:554:LYS:HA	8:2:557:GLU:CD	2.31	0.52
8:2:663:LEU:HA	8:2:666:ASN:HB3	1.90	0.52
9:3:159:GLY:HA2	9:3:160:SER:CB	2.22	0.52
9:3:277:ILE:HG13	9:3:320:LEU:HD11	1.92	0.52
9:3:423:LEU:O	9:3:423:LEU:HD23	2.10	0.52
9:3:563:GLU:HA	9:3:566:LEU:HD12	1.91	0.52
10:4:417:LEU:HB2	10:4:463:VAL:CG1	2.40	0.52
11:5:352:GLU:OE1	11:5:352:GLU:N	2.36	0.52
11:5:410:ILE:HA	11:5:658:ARG:NH2	2.24	0.52
11:5:684:PHE:O	11:5:688:THR:HG23	2.10	0.52
12:6:109:GLU:O	12:6:112:ARG:HB3	2.10	0.52
13:7:143:LEU:HA	13:7:146:ARG:HD2	1.91	0.52
3:C:57:VAL:HG12	3:C:71:PHE:CZ	2.45	0.52
3:C:86:ASN:OD1	3:C:87:ALA:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:357:LYS:HA	5:E:360:HIS:ND1	2.25	0.52
5:E:609:PHE:O	5:E:613:THR:HG23	2.10	0.52
6:F:16:DT:OP1	6:F:16:DT:H6	1.93	0.52
8:2:338:LYS:NZ	8:2:376:ASN:OD1	2.42	0.52
8:2:609:PHE:HA	8:2:612:MET:SD	2.50	0.52
10:4:281:VAL:HG22	10:4:297:GLU:HB3	1.91	0.52
10:4:682:TYR:HB2	10:4:691:ASN:ND2	2.25	0.52
10:4:688:VAL:HG22	10:4:838:THR:HG23	1.92	0.52
11:5:148:LEU:O	11:5:272:ARG:NH1	2.43	0.52
11:5:490:ARG:HH21	11:5:540:ILE:HG23	1.74	0.52
11:5:536:PRO:HG3	11:5:643:ARG:CD	2.40	0.52
12:6:266:SER:HB2	12:6:458:HIS:HD2	1.75	0.52
12:6:377:LEU:HD22	12:6:452:ILE:HG22	1.92	0.52
12:6:655:ALA:HB2	12:6:661:ILE:CD1	2.38	0.52
2:B:55:THR:CG2	4:D:94:GLN:HE22	2.23	0.51
2:B:64:VAL:HG21	2:B:67:ARG:CZ	2.40	0.51
2:B:173:LEU:HD12	2:B:174:SER:H	1.75	0.51
4:D:123:LYS:CG	4:D:126:LEU:HD22	2.40	0.51
4:D:156:LEU:HD12	4:D:218:MET:HE2	1.92	0.51
4:D:237:ASP:OD2	4:D:248:GLU:HG2	2.10	0.51
5:E:270:LEU:HD22	5:E:298:GLU:HB3	1.92	0.51
5:E:324:TYR:HB3	5:E:404:ILE:CG2	2.40	0.51
5:E:327:PHE:CZ	5:E:328:LEU:HG	2.45	0.51
7:G:5:DA:H5''	9:3:230:ILE:HD11	1.92	0.51
8:2:314:LEU:HD12	8:2:315:SER:CB	2.40	0.51
8:2:365:THR:CB	8:2:373:PHE:CE1	2.93	0.51
8:2:410:LEU:C	8:2:411:LEU:HD12	2.30	0.51
8:2:494:ILE:O	8:2:497:ILE:HB	2.10	0.51
9:3:166:LEU:HD12	9:3:182:VAL:HG22	1.90	0.51
9:3:386:MET:HE3	9:3:715:VAL:CG2	2.40	0.51
9:3:535:LEU:HB2	9:3:539:LEU:HD12	1.91	0.51
10:4:202:LYS:H	10:4:224:LEU:CA	2.23	0.51
10:4:332:VAL:HG13	10:4:397:ILE:HG23	1.91	0.51
10:4:416:SER:OG	10:4:459:THR:O	2.26	0.51
10:4:518:LEU:HG	10:4:522:LEU:HG	1.92	0.51
10:4:777:MET:HE1	10:4:833:ILE:HD11	1.92	0.51
10:4:820:GLU:HA	10:4:823:GLN:NE2	2.25	0.51
11:5:194:ILE:O	11:5:194:ILE:HG13	2.10	0.51
11:5:622:LEU:CD2	11:5:681:ILE:HD11	2.40	0.51
12:6:274:HIS:CB	12:6:288:LEU:HD21	2.39	0.51
12:6:390:LYS:HD2	12:6:391:PRO:CD	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:525:ILE:HD12	12:6:526:TYR:N	2.25	0.51
12:6:716:LEU:HD23	12:6:717:ASP:N	2.26	0.51
12:6:759:ARG:O	12:6:812:ARG:NH2	2.43	0.51
13:7:248:VAL:HA	13:7:312:GLU:O	2.10	0.51
13:7:310:PHE:CZ	13:7:334:HIS:HB3	2.45	0.51
1:A:157:PRO:HG2	2:B:14:GLU:OE1	2.08	0.51
2:B:15:GLU:O	2:B:19:ILE:HG13	2.08	0.51
2:B:177:GLU:HA	2:B:180:GLU:CG	2.40	0.51
3:C:100:ILE:HG13	3:C:101:ASN:N	2.25	0.51
3:C:117:GLU:HG2	3:C:119:GLU:H	1.75	0.51
4:D:67:TRP:HE1	4:D:142:SER:HB3	1.75	0.51
4:D:79:TYR:CE1	4:D:176:SER:HB2	2.45	0.51
4:D:123:LYS:O	4:D:126:LEU:HB3	2.11	0.51
8:2:524:PRO:HA	8:2:535:GLY:HA3	1.93	0.51
8:2:619:SER:HA	8:2:622:GLU:CB	2.37	0.51
9:3:96:ILE:N	9:3:154:LYS:O	2.34	0.51
9:3:298:PHE:HD1	9:3:321:ILE:HG13	1.74	0.51
10:4:332:VAL:HB	10:4:430:GLY:N	2.24	0.51
11:5:169:THR:HB	11:5:254:GLN:HE21	1.76	0.51
11:5:619:ALA:O	11:5:623:SER:N	2.32	0.51
12:6:104:ASP:HB3	12:6:176:ARG:NH1	2.24	0.51
12:6:552:LEU:CD1	12:6:755:ILE:HG23	2.31	0.51
12:6:655:ALA:CA	12:6:661:ILE:HD11	2.40	0.51
13:7:543:GLN:CG	13:7:544:GLN:N	2.70	0.51
13:7:611:LYS:HA	13:7:614:GLU:OE1	2.11	0.51
13:7:715:GLU:OE2	13:7:718:ARG:NH1	2.28	0.51
1:A:123:LEU:HD23	1:A:124:SER:O	2.11	0.51
1:A:130:TYR:CB	4:D:193:LEU:HD13	2.39	0.51
1:A:182:ASN:ND2	5:E:74:LEU:HB3	2.25	0.51
2:B:72:VAL:HG12	2:B:75:ILE:HD13	1.92	0.51
4:D:136:LEU:HD23	4:D:136:LEU:O	2.09	0.51
5:E:48:LEU:HD22	5:E:49:PHE:CD1	2.46	0.51
5:E:366:MET:HG2	5:E:391:ILE:HG22	1.91	0.51
5:E:533:GLY:O	5:E:536:LEU:HD23	2.10	0.51
8:2:338:LYS:CE	8:2:379:LYS:HB2	2.24	0.51
8:2:580:VAL:CG2	8:2:592:GLU:H	2.24	0.51
8:2:617:ARG:HA	8:2:620:ILE:CD1	2.40	0.51
9:3:130:THR:CG2	9:3:153:TRP:HB2	2.39	0.51
10:4:278:ASP:O	10:4:282:SER:N	2.37	0.51
10:4:336:THR:O	10:4:395:GLN:NE2	2.43	0.51
11:5:88:PRO:HD3	11:5:196:ASN:ND2	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:585:ASN:O	11:5:589:GLU:HG2	2.09	0.51
12:6:288:LEU:HD12	12:6:289:SER:H	1.74	0.51
12:6:294:VAL:HB	12:6:391:PRO:HA	1.91	0.51
12:6:551:MET:HG2	12:6:635:ILE:CD1	2.40	0.51
12:6:613:VAL:CB	12:6:622:THR:HB	2.25	0.51
12:6:660:THR:HB	12:6:672:LEU:O	2.11	0.51
12:6:801:GLU:CD	12:6:805:ARG:HH21	2.13	0.51
13:7:23:ASP:O	13:7:27:THR:OG1	2.28	0.51
13:7:145:GLN:HA	13:7:148:LEU:CB	2.40	0.51
13:7:513:LEU:CD1	13:7:540:VAL:HG21	2.30	0.51
13:7:646:LYS:HA	13:7:701:LYS:HE3	1.92	0.51
1:A:139:THR:HA	1:A:142:LYS:CG	2.40	0.51
1:A:165:VAL:CG1	1:A:205:LEU:HB3	2.38	0.51
2:B:21:GLU:HB3	2:B:74:TRP:HB3	1.92	0.51
5:E:127:ARG:HB3	5:E:128:PRO:HA	1.91	0.51
5:E:157:GLU:OE2	5:E:236:VAL:HG11	2.11	0.51
5:E:312:THR:O	5:E:316:LEU:HB2	2.10	0.51
5:E:539:TYR:HD1	5:E:544:THR:CG2	2.23	0.51
8:2:423:GLU:CB	8:2:459:ARG:HB2	2.25	0.51
8:2:573:ALA:HB3	12:6:669:HIS:CD2	2.45	0.51
8:2:611:LYS:N	8:2:611:LYS:HD2	2.25	0.51
8:2:814:LEU:HD12	8:2:814:LEU:H	1.76	0.51
9:3:169:ARG:NE	9:3:266:PRO:HG3	2.26	0.51
9:3:275:ASP:OD1	9:3:275:ASP:N	2.40	0.51
9:3:433:THR:HG22	9:3:473:ASP:HB2	1.91	0.51
9:3:553:ILE:CG1	11:5:630:ARG:HD2	2.40	0.51
10:4:532:GLU:O	10:4:537:LYS:HE2	2.11	0.51
10:4:654:ILE:HG22	10:4:656:ILE:CD1	2.39	0.51
10:4:824:GLU:CA	10:4:827:ARG:HB3	2.29	0.51
11:5:378:ILE:HG23	14:5:801:ATP:N1	2.24	0.51
11:5:649:THR:O	11:5:652:GLN:HB2	2.10	0.51
12:6:118:PHE:CE1	12:6:161:ARG:HD3	2.45	0.51
12:6:542:ALA:HA	12:6:545:LYS:HZ3	1.75	0.51
13:7:18:PHE:CE1	13:7:120:ALA:HB2	2.46	0.51
13:7:67:LEU:HD21	13:7:125:MET:CB	2.40	0.51
13:7:210:ASN:HA	13:7:213:ARG:HG2	1.92	0.51
1:A:16:THR:HA	1:A:19:LEU:CG	2.39	0.51
1:A:22:ARG:HH22	11:5:355:GLU:HB2	1.75	0.51
1:A:26:ASP:O	1:A:27:VAL:CG1	2.59	0.51
1:A:106:GLY:N	1:A:107:LEU:HD13	2.25	0.51
1:A:192:ARG:NH2	4:D:127:LEU:HD12	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:7:LEU:HD23	2:B:10:THR:CG2	2.37	0.51
2:B:142:ARG:O	2:B:146:GLN:HB2	2.11	0.51
2:B:160:LEU:HG	2:B:163:LEU:HD11	1.91	0.51
3:C:19:LYS:O	3:C:73:GLU:N	2.39	0.51
3:C:98:HIS:O	3:C:102:SER:HB3	2.10	0.51
5:E:148:VAL:HG12	5:E:150:ASP:HB2	1.91	0.51
5:E:269:ASN:HA	5:E:272:LEU:CD1	2.40	0.51
10:4:527:ALA:CB	10:4:530:ILE:HD13	2.26	0.51
10:4:545:PHE:CB	10:4:810:LYS:HD2	2.40	0.51
10:4:752:SER:HA	10:4:755:LYS:CD	2.36	0.51
11:5:151:LEU:CD1	11:5:274:LEU:HD11	2.39	0.51
11:5:485:MET:HE3	11:5:490:ARG:HG3	1.92	0.51
12:6:293:THR:O	12:6:362:GLN:N	2.42	0.51
12:6:395:CYS:HB2	12:6:397:PHE:CE1	2.46	0.51
12:6:515:GLU:O	12:6:519:MET:N	2.44	0.51
12:6:731:ILE:HG22	12:6:735:HIS:NE2	2.25	0.51
12:6:810:ILE:CD1	12:6:827:ALA:HB2	2.26	0.51
13:7:205:LYS:O	13:7:205:LYS:HG3	2.11	0.51
13:7:363:PHE:O	13:7:364:LYS:HB2	2.10	0.51
13:7:429:LYS:HA	13:7:432:LEU:CD1	2.41	0.51
13:7:472:ALA:O	13:7:476:ILE:HD12	2.10	0.51
13:7:518:ASN:CB	13:7:560:ARG:HE	2.23	0.51
13:7:695:LEU:O	13:7:699:LEU:N	2.37	0.51
1:A:70:CYS:O	1:A:74:VAL:HG23	2.10	0.51
2:B:51:GLN:HG2	2:B:53:ILE:HD11	1.93	0.51
2:B:84:LYS:CD	4:D:124:LEU:HD21	2.41	0.51
3:C:12:ASP:HB3	3:C:49:TRP:HD1	1.72	0.51
4:D:159:ARG:O	4:D:163:GLU:HG2	2.09	0.51
5:E:619:LYS:HB3	5:E:633:ARG:CG	2.40	0.51
8:2:325:THR:HB	8:2:389:THR:OG1	2.11	0.51
8:2:347:ILE:O	8:2:348:LEU:HB3	2.11	0.51
8:2:589:TRP:O	8:2:590:THR:HG23	2.11	0.51
8:2:653:ASN:HB2	8:2:658:ASN:ND2	2.26	0.51
9:3:502:ILE:HG22	9:3:504:THR:HG23	1.91	0.51
9:3:733:LEU:O	9:3:736:ALA:HB3	2.11	0.51
10:4:557:ARG:NH2	10:4:652:GLN:HB3	2.18	0.51
10:4:577:ILE:O	10:4:581:VAL:HG23	2.10	0.51
10:4:629:CYS:O	10:4:672:LEU:N	2.31	0.51
10:4:729:LEU:HB3	10:4:730:GLU:CD	2.31	0.51
11:5:172:LEU:HB3	11:5:252:ASP:CG	2.30	0.51
11:5:536:PRO:HG3	11:5:643:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:297:THR:CA	12:6:359:VAL:HG12	2.34	0.51
12:6:585:LEU:HD21	12:6:679:LEU:CD2	2.41	0.51
12:6:791:SER:HB3	12:6:838:VAL:HB	1.92	0.51
12:6:803:MET:HE1	12:6:828:TYR:HA	1.92	0.51
13:7:258:ILE:HD12	13:7:271:GLN:NE2	2.26	0.51
13:7:428:VAL:O	13:7:432:LEU:HG	2.11	0.51
13:7:517:ASP:HA	13:7:561:THR:CG2	2.40	0.51
13:7:518:ASN:H	13:7:560:ARG:C	2.13	0.51
13:7:715:GLU:O	13:7:719:LEU:HD13	2.10	0.51
1:A:102:TRP:CE2	2:B:3:LEU:HG	2.46	0.51
2:B:105:GLU:OE2	2:B:112:PHE:HA	2.10	0.51
4:D:127:LEU:HD23	4:D:131:THR:OG1	2.10	0.51
5:E:97:GLU:HA	5:E:98:ILE:HB	1.93	0.51
5:E:357:LYS:O	5:E:361:LYS:N	2.42	0.51
8:2:230:ARG:HG2	8:2:242:LEU:HG	1.93	0.51
8:2:246:TYR:H	8:2:298:SER:CB	2.19	0.51
8:2:440:ALA:O	8:2:442:ASN:HB2	2.10	0.51
8:2:601:LYS:N	8:2:643:ARG:O	2.28	0.51
9:3:314:LEU:O	11:5:175:ARG:NH2	2.44	0.51
9:3:405:ILE:HG22	9:3:406:LEU:N	2.26	0.51
9:3:702:LEU:HD22	13:7:616:VAL:HG11	1.93	0.51
10:4:344:VAL:HG22	10:4:359:GLU:HB3	1.92	0.51
10:4:375:ASP:HA	10:4:376:CYS:C	2.31	0.51
10:4:543:GLN:NE2	10:4:562:ILE:O	2.43	0.51
10:4:607:ARG:O	10:4:609:VAL:HG23	2.10	0.51
10:4:758:ILE:HD11	10:4:813:LEU:HA	1.92	0.51
11:5:63:VAL:CG1	11:5:68:LEU:HD21	2.41	0.51
11:5:148:LEU:HD23	11:5:260:GLU:CB	2.38	0.51
11:5:412:VAL:CB	11:5:520:LEU:HG	2.24	0.51
11:5:441:GLY:HA2	11:5:442:LYS:HB2	1.93	0.51
11:5:468:ALA:HA	11:5:471:LEU:HD12	1.91	0.51
11:5:543:GLN:HG3	11:5:546:ILE:CD1	2.40	0.51
12:6:182:GLN:OE1	12:6:182:GLN:N	2.30	0.51
12:6:186:ARG:HA	12:6:189:VAL:CG2	2.41	0.51
12:6:727:LEU:HB3	12:6:731:ILE:HD12	1.93	0.51
1:A:169:LYS:HA	1:A:185:LYS:HD3	1.93	0.51
3:C:101:ASN:HD22	3:C:104:PHE:HB2	1.76	0.51
3:C:165:PHE:CE2	3:C:169:LEU:HD11	2.45	0.51
4:D:218:MET:CA	4:D:219:ILE:HB	2.40	0.51
5:E:526:ARG:HH11	5:E:565:LEU:HB2	1.76	0.51
8:2:502:ALA:HB1	8:2:505:ILE:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:608:GLU:HB3	8:2:611:LYS:HD3	1.93	0.51
9:3:128:ALA:HA	9:3:131:ASP:HB3	1.92	0.51
10:4:265:PRO:HB3	10:4:325:LEU:HG	1.93	0.51
11:5:608:LEU:CD1	11:5:609:LYS:HZ2	2.21	0.51
12:6:303:GLU:HB2	12:6:356:TRP:HD1	1.72	0.51
12:6:406:ASP:O	12:6:449:THR:HB	2.10	0.51
13:7:355:PHE:CE2	13:7:374:THR:HG21	2.46	0.51
3:C:25:PRO:CA	3:C:37:PRO:HB3	2.40	0.51
5:E:550:ASN:HA	5:E:553:ILE:HG22	1.93	0.51
8:2:242:LEU:HB3	8:2:295:VAL:HG12	1.92	0.51
8:2:314:LEU:O	8:2:315:SER:OG	2.27	0.51
8:2:394:PRO:HB2	12:6:672:LEU:HD23	1.93	0.51
8:2:695:LEU:HD11	14:2:901:ATP:N1	2.25	0.51
9:3:118:PRO:HB2	9:3:122:ILE:HD12	1.91	0.51
9:3:236:THR:HA	9:3:237:GLU:C	2.31	0.51
9:3:372:TYR:CZ	9:3:561:ILE:HA	2.45	0.51
9:3:375:ASP:O	9:3:379:LYS:HG3	2.11	0.51
9:3:406:LEU:HB2	9:3:543:PHE:CE2	2.46	0.51
11:5:427:LYS:O	11:5:431:LYS:HG2	2.11	0.51
11:5:569:ALA:O	11:5:573:ILE:HD12	2.11	0.51
11:5:605:TYR:O	11:5:608:LEU:HG	2.09	0.51
11:5:673:GLN:NE2	11:5:675:ARG:HH21	2.09	0.51
12:6:552:LEU:HD11	12:6:755:ILE:CG2	2.31	0.51
13:7:404:LEU:HD23	13:7:404:LEU:O	2.11	0.51
13:7:541:MET:HE3	13:7:594:PHE:HE1	1.75	0.51
2:B:189:MET:O	2:B:193:ARG:N	2.28	0.51
3:C:50:LEU:HD13	3:C:54:LEU:HD11	1.93	0.51
5:E:270:LEU:O	5:E:274:ILE:HG13	2.11	0.51
7:G:14:DT:H2'	7:G:15:DC:C5	2.46	0.51
8:2:499:SER:O	8:2:503:PRO:HG3	2.11	0.51
8:2:795:ARG:CA	8:2:798:ILE:HD12	2.37	0.51
9:3:169:ARG:HB2	9:3:260:GLU:CG	2.39	0.51
9:3:292:VAL:HG13	9:3:327:TYR:O	2.11	0.51
9:3:570:ARG:NH1	11:5:616:PRO:HB3	2.26	0.51
9:3:676:ILE:HA	9:3:679:ILE:HG12	1.93	0.51
10:4:343:LYS:HE2	10:4:392:ALA:HB3	1.93	0.51
10:4:456:LEU:HD21	13:7:252:LYS:HE2	1.93	0.51
11:5:392:LEU:O	11:5:607:ARG:NH2	2.35	0.51
12:6:174:TYR:CD2	12:6:178:LEU:HD11	2.46	0.51
12:6:751:LEU:HD23	12:6:755:ILE:HG13	1.92	0.51
13:7:201:PHE:CE2	13:7:337:GLY:HA2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:587:PRO:HG2	13:7:590:LEU:HB3	1.91	0.51
1:A:149:ILE:CD1	4:D:141:ARG:HG2	2.42	0.50
1:A:185:LYS:HE3	1:A:186:ASP:OD1	2.11	0.50
3:C:109:ILE:O	3:C:113:MET:HG2	2.11	0.50
5:E:125:ALA:CB	5:E:247:VAL:HG13	2.41	0.50
5:E:278:THR:CG2	5:E:425:VAL:HG21	2.41	0.50
5:E:380:MET:HE2	5:E:384:ILE:HG22	1.93	0.50
5:E:493:ASN:CA	5:E:496:ILE:HD12	2.39	0.50
6:F:24:DT:C2'	6:F:25:DT:H71	2.41	0.50
8:2:323:VAL:O	8:2:390:LEU:HG	2.12	0.50
8:2:567:THR:HG23	8:2:568:GLY:N	2.26	0.50
8:2:778:LEU:HB3	8:2:829:VAL:HG21	1.94	0.50
8:2:836:ARG:O	8:2:840:VAL:HG23	2.11	0.50
9:3:669:PRO:HB3	9:3:713:ALA:HB1	1.93	0.50
10:4:342:MET:CG	12:6:417:PRO:HG3	2.41	0.50
10:4:344:VAL:HG13	10:4:359:GLU:CA	2.40	0.50
10:4:370:ARG:HD3	10:4:379:PRO:HA	1.93	0.50
10:4:545:PHE:CA	10:4:810:LYS:HD2	2.40	0.50
10:4:564:ILE:HD12	10:4:564:ILE:N	2.27	0.50
10:4:589:VAL:HG11	10:4:624:SER:OG	2.11	0.50
10:4:799:GLU:O	10:4:803:ARG:HG3	2.12	0.50
11:5:155:HIS:HA	11:5:158:LYS:HD2	1.93	0.50
11:5:181:ILE:HG21	11:5:241:TYR:HB3	1.91	0.50
11:5:261:ILE:HG23	11:5:262:PRO:HD2	1.93	0.50
12:6:108:GLY:O	12:6:112:ARG:N	2.40	0.50
12:6:139:GLN:O	12:6:143:MET:HB2	2.11	0.50
12:6:184:GLY:O	12:6:188:VAL:N	2.41	0.50
12:6:821:PRO:HA	12:6:824:ILE:CG1	2.40	0.50
13:7:18:PHE:O	13:7:21:ILE:HB	2.10	0.50
13:7:441:ASP:HA	13:7:452:GLY:HA2	1.93	0.50
1:A:163:ILE:HG22	1:A:164:ASP:N	2.26	0.50
2:B:51:GLN:HG2	2:B:53:ILE:CD1	2.41	0.50
2:B:78:LEU:O	2:B:81:GLN:HB3	2.10	0.50
2:B:79:LEU:CD2	4:D:124:LEU:HD23	2.41	0.50
3:C:17:PRO:O	3:C:75:LEU:HB3	2.11	0.50
3:C:46:LEU:HD13	3:C:54:LEU:HD12	1.92	0.50
5:E:433:GLU:HA	5:E:541:ASN:HD22	1.77	0.50
5:E:499:ALA:HA	5:E:502:LEU:HG	1.92	0.50
5:E:511:VAL:HA	5:E:514:LEU:CG	2.41	0.50
5:E:621:ARG:HD3	5:E:623:ASP:OD2	2.11	0.50
7:G:12:DG:H2'	7:G:13:DA:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:488:SER:CB	8:2:825:LEU:HD22	2.41	0.50
8:2:629:ILE:O	11:5:445:SER:HB2	2.11	0.50
8:2:798:ILE:HD13	11:5:560:HIS:CB	2.31	0.50
9:3:43:ARG:O	9:3:47:VAL:HG23	2.11	0.50
9:3:254:GLN:N	9:3:278:LEU:O	2.45	0.50
9:3:258:VAL:O	9:3:273:SER:HA	2.12	0.50
9:3:671:LEU:HD23	9:3:672:THR:N	2.25	0.50
9:3:704:THR:O	9:3:708:LEU:HD13	2.11	0.50
11:5:374:ILE:HG23	11:5:428:PHE:HE2	1.74	0.50
11:5:540:ILE:HG21	11:5:546:ILE:CG2	2.41	0.50
11:5:540:ILE:HG21	11:5:546:ILE:HB	1.93	0.50
12:6:568:ASP:CG	12:6:569:ILE:H	2.13	0.50
12:6:819:ILE:CG2	12:6:820:THR:H	2.06	0.50
13:7:397:VAL:HG11	13:7:640:GLU:HG2	1.91	0.50
13:7:546:ILE:HD12	13:7:557:LEU:CD1	2.39	0.50
13:7:546:ILE:HB	13:7:557:LEU:HG	1.92	0.50
13:7:643:ALA:O	13:7:647:THR:HG23	2.11	0.50
1:A:14:LYS:HD2	3:C:6:ILE:HD12	1.92	0.50
1:A:44:VAL:HG13	1:A:45:SER:N	2.26	0.50
2:B:9:GLN:OE1	2:B:9:GLN:N	2.40	0.50
2:B:124:ARG:HD3	3:C:190:TRP:CH2	2.47	0.50
4:D:87:LEU:O	4:D:91:ILE:HG23	2.11	0.50
4:D:156:LEU:O	4:D:160:GLN:HG2	2.11	0.50
5:E:43:LYS:HB2	5:E:481:TRP:CH2	2.46	0.50
5:E:97:GLU:HA	5:E:98:ILE:O	2.10	0.50
5:E:545:LEU:HA	5:E:548:LEU:CB	2.37	0.50
8:2:264:PRO:HG3	8:2:317:LEU:H	1.77	0.50
8:2:433:ASN:HB2	8:2:434:TYR:HB2	1.93	0.50
8:2:441:LYS:HA	8:2:442:ASN:CB	2.38	0.50
9:3:139:VAL:HB	9:3:140:PRO:HD3	1.93	0.50
9:3:152:PRO:HB2	9:3:154:LYS:HE3	1.91	0.50
9:3:158:LYS:HB2	9:3:327:TYR:CZ	2.46	0.50
9:3:190:SER:HB2	9:3:255:ARG:HG3	1.92	0.50
9:3:235:ASP:H	9:3:241:LEU:HD11	1.76	0.50
9:3:447:THR:HG22	9:3:455:ARG:HE	1.75	0.50
9:3:570:ARG:HH12	11:5:616:PRO:HB3	1.75	0.50
10:4:192:THR:HA	10:4:195:ARG:HE	1.75	0.50
10:4:201:PHE:HZ	10:4:205:PHE:HB2	1.76	0.50
10:4:686:LEU:CD1	10:4:687:PRO:HD2	2.41	0.50
11:5:607:ARG:HA	11:5:665:LYS:CE	2.37	0.50
12:6:403:VAL:CG1	12:6:450:TYR:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:522:ASP:CB	12:6:525:ILE:HG23	2.37	0.50
13:7:245:ILE:CD1	13:7:343:LEU:HD13	2.41	0.50
13:7:548:ILE:HG23	13:7:550:LYS:HZ3	1.76	0.50
13:7:636:SER:CA	13:7:639:ARG:HH21	2.25	0.50
13:7:650:PRO:HA	13:7:706:ASP:HA	1.94	0.50
13:7:660:VAL:CG2	13:7:713:VAL:HG11	2.42	0.50
1:A:20:TYR:HE1	1:A:25:GLN:HG3	1.77	0.50
2:B:115:LEU:HD13	2:B:119:TRP:HE1	1.76	0.50
3:C:106:SER:N	3:C:172:MET:SD	2.84	0.50
5:E:59:VAL:HG12	5:E:61:ILE:CD1	2.42	0.50
5:E:90:ILE:HD12	5:E:90:ILE:N	2.26	0.50
5:E:130:ASN:H	5:E:133:ASN:ND2	2.09	0.50
5:E:324:TYR:HD1	5:E:405:ILE:HA	1.76	0.50
8:2:335:LYS:CD	8:2:383:ARG:HD3	2.42	0.50
8:2:637:VAL:HB	11:5:447:ALA:HB2	1.92	0.50
9:3:191:LEU:HB3	9:3:456:ARG:HE	1.75	0.50
9:3:231:TYR:CD1	9:3:232:PRO:HD2	2.47	0.50
9:3:338:ALA:HB3	9:3:339:ARG:CA	2.41	0.50
9:3:537:ASP:O	9:3:540:LEU:HD13	2.11	0.50
10:4:264:TYR:O	10:4:268:VAL:HG23	2.11	0.50
10:4:274:GLN:O	10:4:277:LYS:HB3	2.10	0.50
11:5:368:GLU:HA	11:5:371:THR:CG2	2.42	0.50
11:5:620:GLU:HA	11:5:623:SER:OG	2.10	0.50
12:6:267:PHE:HD2	12:6:287:LEU:HD13	1.77	0.50
12:6:379:VAL:HA	12:6:454:PHE:O	2.12	0.50
12:6:512:GLU:O	12:6:515:GLU:HB3	2.12	0.50
12:6:691:ARG:HE	12:6:716:LEU:HD13	1.75	0.50
12:6:714:VAL:O	12:6:837:ARG:HD3	2.11	0.50
12:6:733:ASP:O	12:6:736:MET:HB2	2.10	0.50
12:6:773:LEU:C	12:6:773:LEU:HD23	2.31	0.50
13:7:322:VAL:HG12	13:7:323:PRO:O	2.12	0.50
13:7:333:ILE:HD11	13:7:376:LEU:HD23	1.91	0.50
13:7:660:VAL:HG22	13:7:713:VAL:CG1	2.41	0.50
1:A:22:ARG:NH2	11:5:355:GLU:HB2	2.27	0.50
1:A:39:ASN:HA	1:A:42:LYS:HE2	1.92	0.50
2:B:82:GLN:CD	2:B:84:LYS:HD2	2.31	0.50
3:C:92:PRO:O	3:C:131:ARG:NE	2.44	0.50
3:C:111:TRP:CE3	3:C:114:LEU:HD23	2.46	0.50
4:D:258:VAL:HG13	4:D:260:ILE:N	2.27	0.50
5:E:26:GLN:HB3	5:E:78:ILE:HA	1.93	0.50
5:E:31:VAL:HG11	5:E:477:PHE:HZ	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:125:ALA:HB1	5:E:247:VAL:HG13	1.93	0.50
5:E:147:THR:HB	5:E:248:VAL:HG11	1.93	0.50
5:E:288:TYR:HA	5:E:291:LEU:HD12	1.92	0.50
5:E:554:GLU:OE1	5:E:587:ARG:HB2	2.11	0.50
8:2:611:LYS:HB3	12:6:650:VAL:HG11	1.92	0.50
9:3:195:LYS:N	9:3:251:ILE:O	2.43	0.50
9:3:669:PRO:HG3	9:3:713:ALA:HB3	1.93	0.50
10:4:277:LYS:HE3	10:4:297:GLU:O	2.11	0.50
10:4:407:PRO:HG2	10:4:410:GLN:HB2	1.94	0.50
10:4:577:ILE:O	10:4:581:VAL:N	2.33	0.50
10:4:685:ASN:O	10:4:838:THR:HB	2.11	0.50
11:5:31:PHE:CZ	11:5:90:PHE:HE1	2.30	0.50
11:5:192:ILE:HG22	11:5:193:THR:N	2.27	0.50
12:6:556:HIS:HA	12:6:567:GLY:CA	2.42	0.50
13:7:77:SER:HB3	13:7:338:THR:OG1	2.12	0.50
13:7:284:CYS:SG	13:7:286:SER:HB2	2.51	0.50
13:7:284:CYS:SG	13:7:289:CYS:HB2	2.51	0.50
13:7:685:THR:HB	13:7:686:PRO:HD2	1.93	0.50
3:C:97:LEU:HD23	3:C:100:ILE:HD13	1.93	0.50
4:D:98:ILE:HA	4:D:101:ILE:HG22	1.94	0.50
4:D:292:ALA:C	4:D:293:LEU:HD12	2.32	0.50
5:E:330:ARG:HA	5:E:377:TRP:CD2	2.46	0.50
5:E:494:ARG:HG2	5:E:498:LEU:CD1	2.41	0.50
5:E:540:ARG:HH22	5:E:574:GLU:N	2.09	0.50
8:2:301:PRO:HB3	8:2:303:ILE:CG1	2.38	0.50
8:2:318:VAL:N	8:2:428:GLY:O	2.42	0.50
8:2:550:SER:HB2	14:2:901:ATP:PA	2.51	0.50
9:3:164:HIS:CG	9:3:180:VAL:HG22	2.47	0.50
9:3:347:ILE:O	9:3:351:ASN:ND2	2.45	0.50
9:3:461:ALA:HA	9:3:464:LEU:HB3	1.94	0.50
9:3:487:HIS:NE2	9:3:539:LEU:HD23	2.26	0.50
10:4:231:ASN:OD1	10:4:283:LEU:HD21	2.11	0.50
10:4:337:PRO:HA	12:6:375:ARG:HD3	1.93	0.50
10:4:728:TYR:HA	13:7:652:MET:CE	2.41	0.50
11:5:40:LEU:HD12	11:5:40:LEU:O	2.11	0.50
11:5:61:LEU:HD22	11:5:63:VAL:HG23	1.93	0.50
11:5:302:ASN:OD1	11:5:324:ARG:CG	2.59	0.50
11:5:400:LEU:HD12	11:5:400:LEU:O	2.11	0.50
11:5:599:MET:O	11:5:602:TYR:HB3	2.12	0.50
12:6:373:MET:HG3	12:6:374:PRO:HD2	1.93	0.50
12:6:531:ARG:HG3	12:6:745:PRO:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:550:GLN:HG2	12:6:569:ILE:CG2	2.38	0.50
12:6:711:LEU:CD1	12:6:712:PHE:H	2.23	0.50
13:7:415:ALA:HA	13:7:418:ILE:CD1	2.42	0.50
13:7:587:PRO:O	13:7:590:LEU:HB3	2.11	0.50
1:A:139:THR:HG22	1:A:142:LYS:HZ3	1.77	0.50
2:B:17:GLN:CA	2:B:20:VAL:HG12	2.38	0.50
4:D:224:TRP:HB3	4:D:280:GLU:CB	2.42	0.50
5:E:311:LYS:HG3	5:E:415:TYR:CZ	2.47	0.50
8:2:230:ARG:HH11	8:2:243:GLU:H	1.59	0.50
8:2:393:ALA:HB3	8:2:396:THR:OG1	2.11	0.50
8:2:562:ARG:HD2	8:2:602:GLY:N	2.27	0.50
8:2:566:ALA:O	8:2:567:THR:HG22	2.12	0.50
8:2:672:PRO:O	8:2:675:SER:HB3	2.12	0.50
8:2:778:LEU:HB2	8:2:783:MET:HE3	1.93	0.50
8:2:798:ILE:CG1	8:2:805:ILE:HD13	2.42	0.50
8:2:820:PHE:HA	8:2:823:MET:SD	2.52	0.50
9:3:197:ILE:O	9:3:214:TYR:HB2	2.12	0.50
9:3:217:ALA:O	9:3:301:LEU:HD22	2.12	0.50
9:3:416:SER:N	14:3:1001:ATP:O2B	2.43	0.50
9:3:467:ARG:HG3	13:7:324:VAL:HG11	1.92	0.50
9:3:535:LEU:O	9:3:535:LEU:HD12	2.11	0.50
9:3:570:ARG:HA	11:5:613:ARG:HH21	1.76	0.50
11:5:451:ALA:CB	11:5:467:GLY:HA3	2.41	0.50
13:7:61:PRO:HG2	13:7:64:MET:CG	2.37	0.50
13:7:259:ALA:N	13:7:305:SER:HB3	2.26	0.50
1:A:31:MET:CE	1:A:33:HIS:HA	2.42	0.50
1:A:129:GLU:O	1:A:132:LYS:HG2	2.12	0.50
2:B:116:PRO:CB	2:B:119:TRP:HB3	2.41	0.50
2:B:195:ILE:HG22	3:C:109:ILE:HD13	1.94	0.50
3:C:3:TYR:CG	3:C:4:TYR:N	2.76	0.50
4:D:170:SER:HA	4:D:174:LEU:HB3	1.94	0.50
6:F:3:DC:H2'	6:F:4:DG:H8	1.77	0.50
8:2:245:ASN:HA	8:2:298:SER:OG	2.12	0.50
8:2:580:VAL:HG21	8:2:592:GLU:N	2.26	0.50
8:2:622:GLU:HB2	11:5:481:GLU:OE2	2.12	0.50
8:2:674:LEU:HD23	8:2:674:LEU:C	2.32	0.50
8:2:798:ILE:HG13	8:2:805:ILE:HD13	1.92	0.50
9:3:130:THR:HG22	9:3:153:TRP:CB	2.41	0.50
9:3:199:SER:O	9:3:212:ARG:N	2.42	0.50
9:3:347:ILE:O	9:3:350:ILE:HB	2.12	0.50
9:3:569:HIS:CE1	11:5:406:LEU:HD21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:570:ARG:HD2	11:5:614:LEU:CD1	2.42	0.50
10:4:249:LEU:HD12	10:4:250:ALA:CB	2.42	0.50
10:4:344:VAL:HG22	10:4:359:GLU:HB2	1.93	0.50
10:4:898:VAL:HG23	10:4:903:ILE:HG13	1.94	0.50
11:5:84:SER:HA	11:5:87:ILE:HD11	1.94	0.50
11:5:417:ASP:OD1	11:5:528:GLY:HA2	2.12	0.50
11:5:433:SER:CB	11:5:436:ALA:HB2	2.42	0.50
11:5:634:LEU:HA	11:5:637:GLU:CB	2.42	0.50
12:6:105:ASP:O	12:6:109:GLU:HB2	2.11	0.50
12:6:116:GLU:HA	12:6:119:LEU:CD2	2.42	0.50
12:6:548:LEU:H	12:6:548:LEU:CD1	2.23	0.50
12:6:559:THR:H	12:6:565:LEU:HD23	1.77	0.50
12:6:569:ILE:HD12	12:6:805:ARG:HD2	1.94	0.50
13:7:664:TYR:OH	13:7:668:ARG:NH2	2.25	0.50
1:A:100:MET:HE1	1:A:117:GLN:CA	2.42	0.50
2:B:55:THR:OG1	2:B:56:ASP:N	2.45	0.50
2:B:55:THR:OG1	2:B:56:ASP:OD1	2.30	0.50
2:B:167:HIS:NE2	4:D:267:VAL:HG11	2.27	0.50
5:E:287:VAL:HG22	5:E:290:ARG:NH1	2.27	0.50
5:E:511:VAL:HA	5:E:514:LEU:HD12	1.94	0.50
8:2:212:LYS:O	8:2:215:LEU:HB3	2.12	0.50
9:3:42:VAL:HG13	9:3:153:TRP:CZ3	2.47	0.50
9:3:254:GLN:NE2	9:3:278:LEU:HD12	2.26	0.50
10:4:314:MET:HG2	10:4:413:HIS:CD2	2.46	0.50
10:4:564:ILE:HG23	10:4:704:LEU:C	2.32	0.50
11:5:412:VAL:C	11:5:413:LEU:HD12	2.32	0.50
11:5:500:GLN:NE2	11:5:516:ARG:HA	2.26	0.50
12:6:116:GLU:O	12:6:120:GLU:HG3	2.12	0.50
12:6:612:VAL:HG22	12:6:622:THR:O	2.12	0.50
12:6:668:ILE:N	12:6:668:ILE:HD12	2.26	0.50
13:7:66:MET:O	13:7:69:LYS:HB3	2.12	0.50
13:7:414:LEU:O	13:7:417:SER:HB2	2.11	0.50
1:A:149:ILE:HA	1:A:150:ASP:CB	2.27	0.49
2:B:11:PHE:O	2:B:179:ASN:ND2	2.45	0.49
3:C:82:THR:HA	3:C:85:MET:CE	2.41	0.49
3:C:181:HIS:NE2	3:C:185:LYS:HD2	2.26	0.49
4:D:191:LEU:HD23	4:D:191:LEU:O	2.12	0.49
5:E:38:ALA:HB1	5:E:84:VAL:HG11	1.95	0.49
5:E:376:THR:HG22	5:E:378:LEU:N	2.19	0.49
5:E:581:VAL:O	5:E:629:ILE:HA	2.12	0.49
8:2:335:LYS:CB	8:2:382:TYR:HA	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:656:ARG:HH11	12:6:794:ARG:HD3	1.77	0.49
9:3:108:ARG:HA	9:3:111:TRP:HB3	1.94	0.49
9:3:189:THR:HG23	9:3:256:ILE:HG22	1.92	0.49
9:3:470:VAL:N	9:3:511:SER:O	2.45	0.49
11:5:61:LEU:HD22	11:5:63:VAL:CG2	2.42	0.49
12:6:386:VAL:O	12:6:387:GLU:HB3	2.11	0.49
12:6:528:LYS:HD3	12:6:531:ARG:NE	2.27	0.49
12:6:551:MET:CE	12:6:591:PHE:HE2	2.21	0.49
12:6:684:PRO:HB2	12:6:687:GLY:H	1.76	0.49
12:6:798:ARG:O	12:6:801:GLU:HB3	2.12	0.49
13:7:193:PRO:HD2	13:7:196:LEU:CD1	2.40	0.49
13:7:416:LYS:HD3	13:7:426:LEU:HD12	1.94	0.49
13:7:446:ASP:N	13:7:447:GLY:CA	2.72	0.49
13:7:583:ASN:OD1	13:7:584:ILE:N	2.45	0.49
13:7:656:VAL:HG12	13:7:710:ILE:CB	2.40	0.49
2:B:80:LYS:N	2:B:85:CYS:SG	2.85	0.49
2:B:87:ILE:HG21	2:B:130:ALA:HB1	1.94	0.49
4:D:62:ASP:O	4:D:65:LYS:HB3	2.12	0.49
4:D:141:ARG:HA	4:D:144:ILE:CG1	2.41	0.49
5:E:13:ASN:HA	5:E:16:LEU:CG	2.40	0.49
5:E:162:LEU:HD12	5:E:163:LEU:CD2	2.42	0.49
8:2:260:LEU:HA	8:2:264:PRO:HB3	1.95	0.49
8:2:301:PRO:HA	8:2:302:THR:OG1	2.12	0.49
9:3:179:LEU:HB2	9:3:297:VAL:HG22	1.94	0.49
9:3:303:ALA:HB2	9:3:307:ASN:HB2	1.93	0.49
9:3:367:LEU:CD1	9:3:378:LYS:HB3	2.39	0.49
9:3:434:GLY:O	9:3:478:MET:HG2	2.13	0.49
9:3:446:VAL:HG21	9:3:458:GLU:CG	2.42	0.49
9:3:570:ARG:HA	11:5:613:ARG:CZ	2.42	0.49
9:3:700:ARG:HA	9:3:703:GLU:CD	2.33	0.49
10:4:433:ILE:HG23	10:4:469:VAL:CA	2.42	0.49
10:4:762:ILE:HA	10:4:817:VAL:CG1	2.41	0.49
10:4:856:VAL:HG23	10:4:857:ILE:H	1.77	0.49
11:5:28:ILE:HG23	11:5:93:ALA:CB	2.40	0.49
11:5:287:ILE:HB	11:5:290:THR:HG21	1.94	0.49
12:6:141:GLU:O	12:6:145:ILE:HG12	2.12	0.49
12:6:143:MET:HE2	12:6:150:THR:CG2	2.41	0.49
12:6:175:TYR:HA	12:6:178:LEU:CD1	2.31	0.49
12:6:702:THR:OG1	12:6:704:PRO:HD2	2.11	0.49
13:7:28:PHE:O	13:7:61:PRO:HB3	2.13	0.49
13:7:196:LEU:HD23	13:7:197:THR:HG23	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:251:VAL:HA	13:7:310:PHE:O	2.12	0.49
13:7:317:GLU:CD	13:7:322:VAL:HG22	2.31	0.49
13:7:668:ARG:NH2	13:7:686:PRO:HD3	2.27	0.49
2:B:25:ILE:HD12	2:B:87:ILE:HD11	1.93	0.49
2:B:28:PHE:CE1	2:B:68:SER:HB2	2.39	0.49
2:B:90:PRO:HB2	2:B:93:LEU:CB	2.42	0.49
3:C:85:MET:O	3:C:89:LYS:HG3	2.13	0.49
3:C:131:ARG:O	3:C:135:LEU:HG	2.12	0.49
4:D:260:ILE:O	4:D:260:ILE:HG22	2.11	0.49
5:E:228:LYS:O	5:E:232:GLU:N	2.43	0.49
5:E:482:ASP:OD1	5:E:488:LYS:HD2	2.12	0.49
5:E:569:LEU:CG	5:E:584:LEU:HD11	2.42	0.49
8:2:310:ARG:N	8:2:313:ASN:OD1	2.43	0.49
8:2:534:ARG:HH11	8:2:815:ARG:HH22	1.61	0.49
8:2:591:LEU:HD22	11:5:270:MET:SD	2.52	0.49
8:2:603:VAL:HG13	8:2:645:SER:CB	2.38	0.49
8:2:695:LEU:HD11	14:2:901:ATP:N6	2.26	0.49
8:2:839:LYS:HD3	8:2:864:TYR:HA	1.94	0.49
9:3:38:TYR:HE2	9:3:98:ILE:HG23	1.77	0.49
9:3:121:PHE:O	9:3:124:PRO:HG2	2.11	0.49
9:3:196:LEU:N	13:7:372:THR:HG23	2.26	0.49
9:3:520:PHE:HE1	11:5:542:PHE:HB2	1.78	0.49
9:3:722:ASN:OD1	9:3:723:LYS:N	2.45	0.49
10:4:348:LYS:N	10:4:383:SER:O	2.44	0.49
10:4:533:LEU:O	10:4:536:VAL:HB	2.12	0.49
10:4:567:CYS:CB	10:4:675:ALA:HB3	2.42	0.49
10:4:580:TYR:CE2	10:4:584:ILE:HD11	2.47	0.49
10:4:621:LEU:HD21	10:4:645:LEU:CD2	2.42	0.49
10:4:621:LEU:HB3	10:4:654:ILE:HD11	1.94	0.49
11:5:172:LEU:HB3	11:5:252:ASP:OD1	2.13	0.49
11:5:355:GLU:HA	11:5:358:LEU:HD12	1.93	0.49
11:5:612:PRO:HG2	11:5:661:GLU:HB3	1.94	0.49
12:6:282:GLU:OE1	12:6:282:GLU:N	2.31	0.49
12:6:810:ILE:HG21	12:6:823:PHE:HB3	1.93	0.49
13:7:310:PHE:CE1	13:7:334:HIS:HB3	2.47	0.49
13:7:696:SER:HB2	13:7:713:VAL:HA	1.93	0.49
1:A:41:LEU:HD22	4:D:201:TYR:CG	2.47	0.49
1:A:191:VAL:HG12	1:A:192:ARG:N	2.28	0.49
2:B:53:ILE:H	2:B:53:ILE:HD12	1.77	0.49
5:E:31:VAL:N	5:E:59:VAL:O	2.31	0.49
5:E:75:ASP:HA	5:E:78:ILE:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:5:DA:H5''	9:3:230:ILE:HD12	1.94	0.49
8:2:402:LEU:HD11	10:4:660:GLY:HA2	1.94	0.49
8:2:424:VAL:HG21	8:2:456:ILE:CG2	2.42	0.49
8:2:506:TYR:HB2	8:2:698:PHE:CE2	2.47	0.49
9:3:198:ARG:HB3	9:3:249:THR:CG2	2.40	0.49
9:3:294:VAL:HA	9:3:326:VAL:HG22	1.94	0.49
9:3:447:THR:CB	9:3:448:THR:HA	2.30	0.49
9:3:538:SER:OG	9:3:542:ARG:NH1	2.44	0.49
10:4:208:ILE:HD11	10:4:250:ALA:HB2	1.93	0.49
10:4:428:ARG:HB2	10:4:431:ASP:OD2	2.13	0.49
11:5:87:ILE:HB	11:5:196:ASN:HD21	1.78	0.49
11:5:202:GLY:N	11:5:203:ASN:HA	2.28	0.49
11:5:390:CYS:HB2	11:5:662:SER:HB2	1.94	0.49
11:5:416:GLY:N	11:5:525:PRO:HD3	2.28	0.49
11:5:599:MET:O	11:5:603:ILE:HG13	2.12	0.49
12:6:158:LEU:O	12:6:158:LEU:HD23	2.12	0.49
12:6:550:GLN:HA	12:6:569:ILE:CG2	2.43	0.49
12:6:791:SER:HA	12:6:838:VAL:CG1	2.42	0.49
13:7:14:TYR:HD1	13:7:17:LEU:HD22	1.78	0.49
13:7:127:LEU:CG	13:7:128:PRO:HD3	2.34	0.49
13:7:397:VAL:HG12	13:7:640:GLU:HG2	1.93	0.49
1:A:108:ASP:H	1:A:109:LEU:C	2.16	0.49
4:D:170:SER:CB	4:D:175:LEU:HD22	2.42	0.49
5:E:99:ASP:O	5:E:101:GLN:HG3	2.13	0.49
5:E:310:VAL:HG13	5:E:311:LYS:HD2	1.94	0.49
5:E:427:ALA:CB	5:E:492:LEU:HD11	2.42	0.49
9:3:676:ILE:HA	9:3:679:ILE:HD11	1.94	0.49
9:3:687:ARG:HG2	9:3:697:ILE:HG22	1.93	0.49
10:4:529:SER:OG	13:7:448:MET:SD	2.63	0.49
10:4:552:PHE:HA	12:6:740:GLU:OE1	2.12	0.49
10:4:603:ALA:HB3	10:4:658:LYS:HZ3	1.77	0.49
11:5:358:LEU:O	11:5:362:ARG:HG3	2.12	0.49
11:5:413:LEU:HD11	11:5:550:PHE:CG	2.48	0.49
12:6:300:VAL:CG2	12:6:357:GLN:HB3	2.42	0.49
13:7:220:ILE:HD12	13:7:220:ILE:N	2.28	0.49
13:7:322:VAL:CG1	13:7:323:PRO:HD2	2.42	0.49
13:7:470:LEU:HD22	13:7:522:CYS:CB	2.43	0.49
1:A:108:ASP:HA	1:A:198:ARG:HD3	1.95	0.49
2:B:112:PHE:O	2:B:152:ARG:NH2	2.46	0.49
2:B:148:LEU:CA	2:B:151:ILE:HG12	2.41	0.49
2:B:173:LEU:HD23	2:B:178:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:97:LEU:CD2	3:C:100:ILE:HD13	2.42	0.49
3:C:109:ILE:HD12	3:C:112:ILE:CG2	2.42	0.49
4:D:258:VAL:HA	4:D:259:THR:CB	2.43	0.49
5:E:316:LEU:CD2	5:E:413:LEU:HD12	2.42	0.49
5:E:483:ALA:HA	5:E:491:LEU:HD11	1.95	0.49
8:2:483:GLU:O	8:2:487:ILE:HD12	2.13	0.49
8:2:484:PHE:CZ	8:2:766:TYR:HD1	2.31	0.49
8:2:523:VAL:HG12	8:2:525:LYS:CB	2.33	0.49
8:2:584:PRO:HD2	8:2:585:ILE:HB	1.93	0.49
8:2:603:VAL:CG1	8:2:645:SER:HB2	2.39	0.49
9:3:95:ARG:HB2	9:3:154:LYS:CB	2.37	0.49
9:3:299:LYS:HG3	9:3:322:LEU:CD1	2.42	0.49
9:3:314:LEU:CD2	11:5:201:THR:HG23	2.39	0.49
9:3:414:ALA:HB2	14:3:1001:ATP:C8	2.47	0.49
9:3:415:LYS:HG3	9:3:416:SER:N	2.28	0.49
10:4:411:THR:OG1	10:4:412:PRO:HD2	2.13	0.49
10:4:631:ILE:HD11	10:4:671:ILE:HG21	1.94	0.49
11:5:183:CYS:SG	11:5:240:PRO:HB2	2.52	0.49
12:6:275:ARG:O	12:6:279:ILE:HG13	2.13	0.49
12:6:516:LEU:HD22	12:6:754:TYR:HD1	1.78	0.49
12:6:523:GLU:OE1	12:6:524:HIS:ND1	2.38	0.49
12:6:756:LYS:O	12:6:760:THR:HG23	2.12	0.49
13:7:458:LEU:HB3	13:7:600:MET:CE	2.42	0.49
13:7:479:ARG:HG3	13:7:479:ARG:O	2.12	0.49
13:7:648:LYS:CE	13:7:704:LEU:HB3	2.38	0.49
13:7:650:PRO:HA	13:7:706:ASP:CA	2.43	0.49
13:7:704:LEU:C	13:7:706:ASP:H	2.16	0.49
4:D:231:HIS:CB	4:D:274:ILE:HG22	2.43	0.49
5:E:268:SER:O	5:E:271:TRP:HB3	2.13	0.49
5:E:315:THR:N	5:E:316:LEU:CB	2.75	0.49
5:E:342:ASN:HD21	5:E:551:TRP:HA	1.77	0.49
5:E:634:ARG:CA	5:E:637:LEU:HG	2.41	0.49
8:2:207:ILE:O	8:2:211:LEU:HG	2.13	0.49
8:2:568:GLY:O	8:2:569:GLN:HB2	2.12	0.49
8:2:758:ILE:CG2	8:2:762:LEU:HB2	2.43	0.49
8:2:806:THR:HG22	8:2:808:ARG:N	2.28	0.49
9:3:329:LEU:HD12	9:3:329:LEU:O	2.13	0.49
9:3:353:LEU:HD23	9:3:359:ILE:CD1	2.43	0.49
9:3:680:VAL:CG2	13:7:617:THR:HG21	2.43	0.49
11:5:31:PHE:O	11:5:35:ILE:HG13	2.12	0.49
11:5:302:ASN:CB	11:5:324:ARG:NH1	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:367:TYR:CD1	11:5:663:LEU:HG	2.48	0.49
11:5:374:ILE:HD11	11:5:389:VAL:CG2	2.43	0.49
11:5:413:LEU:HB2	11:5:553:ILE:CG2	2.36	0.49
12:6:276:ILE:HD13	12:6:375:ARG:CG	2.43	0.49
12:6:293:THR:CG2	12:6:392:GLY:HA2	2.43	0.49
12:6:355:ASP:HB3	12:6:356:TRP:CB	2.42	0.49
12:6:560:VAL:CB	12:6:561:GLU:CA	2.84	0.49
13:7:213:ARG:C	13:7:215:TYR:HA	2.33	0.49
2:B:94:THR:HG21	2:B:96:LYS:HZ2	1.78	0.49
2:B:184:PHE:HB3	2:B:185:ILE:HD12	1.95	0.49
5:E:25:CYS:H	5:E:26:GLN:CA	2.26	0.49
5:E:47:LEU:O	5:E:47:LEU:HD23	2.11	0.49
5:E:76:ASP:H	5:E:78:ILE:CD1	2.25	0.49
5:E:564:LEU:HB3	5:E:586:PRO:CB	2.43	0.49
5:E:612:ILE:HA	5:E:615:GLU:HB2	1.94	0.49
8:2:795:ARG:HG3	8:2:796:GLU:N	2.27	0.49
9:3:191:LEU:CD2	13:7:329:ARG:HH12	2.17	0.49
9:3:194:PRO:HD2	13:7:373:GLU:HA	1.95	0.49
9:3:262:PRO:O	11:5:514:ASN:ND2	2.45	0.49
10:4:226:TYR:OH	10:4:247:ASN:HB2	2.13	0.49
10:4:239:SER:HB2	10:4:299:LYS:NZ	2.28	0.49
10:4:315:ARG:NH1	13:7:250:ASP:HB3	2.27	0.49
10:4:714:GLU:CB	10:4:715:LYS:HB3	2.43	0.49
11:5:64:ASN:HB3	11:5:67:HIS:HB3	1.94	0.49
11:5:137:LEU:HD12	11:5:137:LEU:O	2.13	0.49
11:5:166:ILE:O	11:5:289:GLY:HA2	2.13	0.49
11:5:437:VAL:HG12	11:5:439:THR:CG2	2.43	0.49
12:6:133:GLU:CB	12:6:134:LYS:HA	2.25	0.49
12:6:183:LYS:HA	12:6:186:ARG:NH1	2.27	0.49
12:6:418:SER:HB2	12:6:420:THR:HG23	1.95	0.49
13:7:25:LEU:CD1	13:7:120:ALA:HB3	2.43	0.49
13:7:116:LEU:HA	13:7:119:ARG:HG2	1.95	0.49
13:7:397:VAL:HG22	13:7:400:ARG:NH2	2.27	0.49
13:7:458:LEU:HD13	13:7:600:MET:CE	2.34	0.49
13:7:461:ASP:HA	13:7:462:PRO:O	2.12	0.49
13:7:490:GLY:O	13:7:494:THR:HG22	2.12	0.49
1:A:24:ASN:OD1	1:A:25:GLN:N	2.42	0.49
1:A:162:PHE:HD1	1:A:192:ARG:CA	2.26	0.49
1:A:188:GLN:HG3	5:E:58:ILE:CD1	2.43	0.49
4:D:232:VAL:CG2	4:D:269:LEU:HD12	2.43	0.49
5:E:120:ILE:CB	5:E:139:ILE:HB	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:231:HIS:HA	5:E:234:GLU:HB2	1.93	0.49
6:F:4:DG:H2'	6:F:5:DA:C8	2.48	0.49
7:G:12:DG:H2''	7:G:13:DA:C5'	2.43	0.49
8:2:617:ARG:O	8:2:620:ILE:HB	2.12	0.49
8:2:625:GLU:OE1	8:2:676:ARG:NE	2.44	0.49
9:3:21:PHE:CE1	9:3:124:PRO:HD3	2.48	0.49
10:4:282:SER:O	10:4:285:VAL:HG22	2.13	0.49
10:4:315:ARG:NH2	13:7:251:VAL:HG12	2.28	0.49
10:4:326:ILE:HG22	10:4:328:LEU:CG	2.41	0.49
10:4:354:HIS:CG	10:4:373:ARG:HG3	2.47	0.49
10:4:417:LEU:CD1	10:4:419:VAL:HG13	2.42	0.49
10:4:771:VAL:O	10:4:775:VAL:HG23	2.12	0.49
10:4:802:ILE:CD1	12:6:735:HIS:HB3	2.42	0.49
10:4:827:ARG:O	10:4:831:SER:N	2.42	0.49
11:5:96:GLN:O	11:5:100:ARG:HG3	2.13	0.49
11:5:148:LEU:HG	11:5:272:ARG:CD	2.36	0.49
11:5:488:GLU:O	11:5:491:VAL:HB	2.12	0.49
12:6:723:ILE:HA	12:6:726:GLU:HB2	1.95	0.49
12:6:800:LEU:O	12:6:803:MET:HB3	2.13	0.49
12:6:836:ILE:O	12:6:839:ASP:HB2	2.13	0.49
13:7:383:GLN:H	13:7:386:LYS:HE2	1.76	0.49
1:A:15:ARG:HH22	11:5:670:PRO:HD3	1.76	0.49
1:A:39:ASN:N	1:A:42:LYS:HZ3	2.10	0.49
2:B:18:PHE:CZ	4:D:135:ARG:HG2	2.48	0.49
2:B:25:ILE:O	2:B:71:VAL:N	2.33	0.49
3:C:16:PHE:O	3:C:45:SER:HA	2.13	0.49
3:C:88:ILE:O	3:C:92:PRO:HD3	2.13	0.49
3:C:177:TYR:CE2	3:C:181:HIS:HB2	2.48	0.49
4:D:189:ILE:O	4:D:193:LEU:N	2.46	0.49
5:E:48:LEU:C	5:E:48:LEU:HD23	2.33	0.49
5:E:308:ASN:HB3	5:E:310:VAL:N	2.28	0.49
5:E:326:LEU:HD21	5:E:329:LEU:HA	1.95	0.49
5:E:641:LEU:O	5:E:645:THR:HG23	2.12	0.49
5:E:641:LEU:O	5:E:645:THR:N	2.32	0.49
8:2:296:ARG:HB3	8:2:455:SER:OG	2.13	0.49
8:2:302:THR:OG1	8:2:319:ARG:HB3	2.13	0.49
8:2:506:TYR:CD2	8:2:695:LEU:HD12	2.47	0.49
8:2:544:ASP:OD1	8:2:545:PRO:HD2	2.13	0.49
8:2:546:GLY:HA2	12:6:798:ARG:NH2	2.26	0.49
8:2:600:ASP:OD2	8:2:601:LYS:HG2	2.13	0.49
8:2:641:GLN:HB3	8:2:643:ARG:HH22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:816:ILE:HG21	8:2:837:ALA:HA	1.94	0.49
9:3:103:LEU:HA	9:3:106:PHE:HB3	1.95	0.49
9:3:291:ARG:C	9:3:329:LEU:HG	2.33	0.49
10:4:241:LEU:HD23	10:4:243:LEU:N	2.22	0.49
10:4:347:PHE:N	10:4:357:ALA:HB2	2.26	0.49
10:4:355:THR:HG23	10:4:356:MET:CE	2.43	0.49
10:4:397:ILE:HB	10:4:417:LEU:HD21	1.94	0.49
10:4:829:ILE:O	10:4:833:ILE:HG13	2.13	0.49
11:5:172:LEU:HD23	11:5:254:GLN:HA	1.94	0.49
11:5:178:TYR:HD1	11:5:193:THR:CG2	2.25	0.49
11:5:196:ASN:OD1	11:5:197:PHE:N	2.43	0.49
12:6:112:ARG:NH2	12:6:180:PHE:HA	2.27	0.49
12:6:405:PRO:HA	12:6:450:TYR:HA	1.95	0.49
12:6:555:VAL:HG23	12:6:557:LYS:H	1.78	0.49
13:7:77:SER:HB3	13:7:338:THR:HB	1.95	0.49
13:7:470:LEU:HB3	13:7:522:CYS:CB	2.42	0.49
1:A:100:MET:SD	1:A:117:GLN:HG2	2.52	0.48
1:A:102:TRP:HB3	4:D:145:ARG:NH2	2.25	0.48
1:A:141:LEU:HD11	4:D:182:TYR:HB2	1.95	0.48
2:B:29:PRO:HA	2:B:85:CYS:HA	1.94	0.48
2:B:90:PRO:HB3	2:B:92:TRP:CE2	2.48	0.48
3:C:82:THR:HA	3:C:85:MET:SD	2.52	0.48
3:C:184:TYR:HA	3:C:187:THR:HB	1.95	0.48
5:E:264:GLU:OE1	5:E:264:GLU:N	2.41	0.48
5:E:291:LEU:CD2	5:E:294:LEU:HD12	2.43	0.48
5:E:364:ALA:HB1	8:2:283:TYR:CD1	2.48	0.48
8:2:229:ALA:CA	8:2:232:ARG:HG2	2.40	0.48
8:2:323:VAL:HG21	8:2:394:PRO:CD	2.43	0.48
8:2:410:LEU:C	8:2:415:VAL:HG22	2.33	0.48
8:2:653:ASN:HB2	8:2:658:ASN:HD21	1.77	0.48
14:2:901:ATP:O2B	12:6:798:ARG:NH2	2.46	0.48
9:3:25:VAL:HG13	9:3:128:ALA:HB2	1.95	0.48
9:3:122:ILE:N	9:3:123:PRO:HD2	2.28	0.48
9:3:685:ASP:HA	9:3:688:ASN:HB2	1.95	0.48
10:4:336:THR:OG1	10:4:396:VAL:O	2.27	0.48
10:4:351:VAL:C	10:4:353:ASP:HA	2.33	0.48
10:4:635:ASP:OD1	10:4:694:LEU:HD22	2.13	0.48
11:5:177:THR:HG23	11:5:251:ILE:CG2	2.43	0.48
11:5:433:SER:HB3	11:5:436:ALA:HB2	1.95	0.48
11:5:494:HIS:HA	11:5:549:ARG:HD3	1.95	0.48
11:5:577:THR:HA	11:5:579:ASN:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:569:ILE:CD1	12:6:805:ARG:HD2	2.43	0.48
12:6:653:HIS:CB	12:6:705:ILE:HG22	2.38	0.48
12:6:711:LEU:HB3	12:6:713:PHE:HE1	1.75	0.48
13:7:81:ASP:HB3	13:7:205:LYS:CG	2.42	0.48
13:7:128:PRO:CB	13:7:129:THR:HA	2.43	0.48
13:7:435:LEU:HD11	13:7:562:SER:HB3	1.95	0.48
13:7:459:MET:HB2	13:7:597:LEU:HD11	1.95	0.48
13:7:624:LYS:HG3	13:7:624:LYS:O	2.13	0.48
1:A:37:ILE:O	1:A:41:LEU:N	2.37	0.48
2:B:52:LEU:HD12	2:B:53:ILE:N	2.28	0.48
2:B:72:VAL:HG13	2:B:75:ILE:HG12	1.95	0.48
2:B:175:LEU:CA	2:B:178:ILE:HD12	2.43	0.48
5:E:125:ALA:HB2	5:E:251:ILE:HG23	1.95	0.48
5:E:308:ASN:CA	5:E:309:SER:HB2	2.34	0.48
5:E:540:ARG:NH2	5:E:574:GLU:HB2	2.27	0.48
5:E:608:ALA:HA	5:E:611:GLN:CG	2.43	0.48
8:2:308:GLU:O	8:2:309:LEU:HG	2.13	0.48
8:2:544:ASP:O	8:2:549:LYS:HE2	2.13	0.48
8:2:678:ASP:OD1	8:2:679:ILE:HG13	2.12	0.48
8:2:774:ILE:CG2	8:2:822:LYS:HB3	2.44	0.48
8:2:803:PHE:N	8:2:804:PRO:CA	2.75	0.48
9:3:32:LEU:CD1	9:3:38:TYR:HB2	2.40	0.48
9:3:38:TYR:CE2	9:3:98:ILE:HG12	2.47	0.48
9:3:221:LEU:O	9:3:299:LYS:NZ	2.24	0.48
9:3:407:MET:O	9:3:515:ALA:HA	2.13	0.48
9:3:416:SER:HB3	11:5:499:GLN:HE21	1.77	0.48
9:3:732:LEU:O	9:3:736:ALA:N	2.46	0.48
10:4:564:ILE:CD1	10:4:703:ASP:HB3	2.43	0.48
10:4:655:SER:CB	10:4:664:THR:HG22	2.43	0.48
11:5:56:VAL:HG11	11:5:58:ASN:HB2	1.95	0.48
11:5:76:TYR:O	11:5:80:SER:N	2.42	0.48
11:5:454:GLN:CB	11:5:465:GLU:HB2	2.43	0.48
11:5:543:GLN:HG3	11:5:546:ILE:HD12	1.95	0.48
12:6:304:LEU:HD12	12:6:304:LEU:N	2.28	0.48
12:6:723:ILE:O	12:6:727:LEU:N	2.26	0.48
12:6:796:THR:HB	12:6:799:GLN:CG	2.40	0.48
13:7:144:ASN:O	13:7:148:LEU:N	2.45	0.48
13:7:257:VAL:HG12	13:7:272:GLU:HA	1.94	0.48
13:7:258:ILE:HD11	13:7:278:PHE:CE1	2.48	0.48
13:7:502:VAL:HG12	13:7:503:THR:N	2.28	0.48
1:A:175:GLN:CB	1:A:181:PHE:H	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:24:ILE:CG1	3:C:38:ILE:HB	2.44	0.48
3:C:82:THR:O	3:C:85:MET:HG2	2.13	0.48
3:C:83:LYS:HA	3:C:86:ASN:ND2	2.27	0.48
4:D:159:ARG:HG2	4:D:163:GLU:HG2	1.95	0.48
4:D:172:THR:HA	4:D:175:LEU:O	2.14	0.48
4:D:177:LYS:O	4:D:181:LYS:HG3	2.13	0.48
4:D:258:VAL:HG22	4:D:266:GLU:HG2	1.95	0.48
5:E:271:TRP:NE1	5:E:275:LEU:HD11	2.28	0.48
5:E:366:MET:HB3	5:E:368:ILE:HG13	1.95	0.48
5:E:370:LEU:O	5:E:374:GLN:HG2	2.13	0.48
8:2:234:LEU:HD22	8:2:239:SER:OG	2.13	0.48
8:2:423:GLU:OE1	8:2:423:GLU:N	2.41	0.48
8:2:543:GLY:N	8:2:652:PRO:HD3	2.27	0.48
9:3:409:GLY:N	9:3:415:LYS:HZ1	2.11	0.48
9:3:533:ILE:HG12	9:3:540:LEU:HD21	1.95	0.48
10:4:183:THR:CG2	10:4:185:VAL:HB	2.41	0.48
11:5:413:LEU:HD11	11:5:550:PHE:CD2	2.48	0.48
11:5:453:VAL:HG21	11:5:506:LYS:CB	2.39	0.48
12:6:359:VAL:HG21	12:6:381:LEU:HD21	1.93	0.48
12:6:531:ARG:HG3	12:6:745:PRO:CG	2.43	0.48
12:6:574:VAL:HA	12:6:581:LYS:NZ	2.24	0.48
13:7:81:ASP:HB3	13:7:205:LYS:HG3	1.95	0.48
13:7:273:VAL:HG22	13:7:278:PHE:CB	2.43	0.48
1:A:5:LEU:HD11	1:A:36:ILE:HD11	1.95	0.48
1:A:102:TRP:NE1	2:B:3:LEU:HG	2.29	0.48
1:A:170:ASP:O	1:A:183:LEU:HB3	2.12	0.48
3:C:90:THR:HG22	9:3:111:TRP:HZ2	1.79	0.48
5:E:27:LEU:HA	5:E:80:SER:O	2.14	0.48
5:E:158:ALA:HB1	5:E:237:LEU:HD22	1.95	0.48
5:E:473:TRP:CZ3	5:E:542:PRO:HD3	2.48	0.48
5:E:622:ILE:O	5:E:622:ILE:HG22	2.14	0.48
5:E:637:LEU:CA	5:E:640:PHE:HB3	2.38	0.48
8:2:424:VAL:HG22	8:2:425:GLU:N	2.27	0.48
8:2:455:SER:C	8:2:456:ILE:HD12	2.33	0.48
8:2:631:ILE:HA	11:5:442:LYS:HB3	1.94	0.48
8:2:670:THR:O	8:2:673:ILE:HG22	2.12	0.48
9:3:212:ARG:HH21	13:7:5:LEU:HD12	1.78	0.48
10:4:413:HIS:ND1	13:7:250:ASP:OD2	2.46	0.48
10:4:433:ILE:HA	10:4:469:VAL:O	2.13	0.48
10:4:506:LEU:O	10:4:509:ILE:HB	2.14	0.48
10:4:566:LEU:HD13	10:4:574:LYS:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:833:ILE:HA	10:4:836:TYR:CD2	2.48	0.48
11:5:484:LYS:N	11:5:484:LYS:HD2	2.29	0.48
12:6:184:GLY:O	12:6:188:VAL:HG23	2.13	0.48
12:6:340:ASN:CB	12:6:342:ALA:HB2	2.43	0.48
12:6:360:ARG:HG2	12:6:376:THR:HB	1.94	0.48
12:6:530:VAL:HA	12:6:533:ILE:CG1	2.44	0.48
12:6:559:THR:HG23	12:6:565:LEU:CD2	2.44	0.48
12:6:778:LYS:HG2	12:6:782:LYS:HZ2	1.79	0.48
12:6:800:LEU:O	12:6:804:ILE:HG13	2.12	0.48
13:7:499:LYS:NZ	13:7:504:ASP:OD1	2.41	0.48
1:A:191:VAL:HA	5:E:55:GLN:NE2	2.29	0.48
2:B:160:LEU:O	2:B:163:LEU:HG	2.13	0.48
2:B:188:ILE:HG22	2:B:192:LEU:HD13	1.95	0.48
4:D:199:LEU:HD13	4:D:202:MET:HE3	1.96	0.48
5:E:131:LEU:CD2	5:E:237:LEU:HD11	2.43	0.48
5:E:270:LEU:HD23	5:E:302:LEU:HD21	1.95	0.48
5:E:600:PRO:HB2	5:E:602:LEU:CD1	2.43	0.48
6:F:3:DC:H2''	6:F:4:DG:H5'	1.95	0.48
8:2:512:LYS:O	8:2:515:VAL:HB	2.14	0.48
8:2:676:ARG:NH2	11:5:418:PRO:HB3	2.28	0.48
9:3:191:LEU:HB3	9:3:456:ARG:NE	2.28	0.48
9:3:195:LYS:HG3	13:7:371:LEU:H	1.79	0.48
9:3:245:TYR:HE1	13:7:357:PRO:HG2	1.78	0.48
9:3:314:LEU:HA	11:5:201:THR:CA	2.25	0.48
9:3:533:ILE:HG22	9:3:535:LEU:H	1.79	0.48
10:4:341:ASP:OD1	10:4:342:MET:N	2.45	0.48
10:4:342:MET:CB	10:4:360:ILE:HG12	2.33	0.48
10:4:370:ARG:HB3	10:4:379:PRO:HA	1.95	0.48
10:4:433:ILE:HG23	10:4:467:LYS:C	2.34	0.48
11:5:294:ILE:HG13	11:5:333:ILE:HG13	1.95	0.48
11:5:545:THR:O	11:5:548:SER:OG	2.21	0.48
12:6:272:THR:O	12:6:289:SER:HB3	2.13	0.48
12:6:531:ARG:CG	12:6:745:PRO:HG3	2.43	0.48
12:6:537:VAL:HG21	12:6:584:PHE:CD1	2.48	0.48
12:6:608:LEU:HG	12:6:628:LEU:HB3	1.95	0.48
13:7:82:LEU:O	13:7:207:LEU:HD23	2.14	0.48
13:7:90:ASN:HD21	13:7:214:ARG:HE	1.61	0.48
13:7:255:VAL:HB	13:7:307:PHE:CD1	2.48	0.48
13:7:518:ASN:H	13:7:560:ARG:HB2	1.76	0.48
13:7:580:PRO:O	13:7:581:LEU:HB3	2.13	0.48
13:7:619:VAL:HG21	13:7:625:GLN:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:ASN:C	1:A:106:GLY:HA3	2.34	0.48
1:A:168:LEU:HD11	1:A:206:GLN:HG2	1.96	0.48
1:A:173:GLU:H	1:A:173:GLU:CD	2.16	0.48
2:B:157:LEU:HD23	2:B:157:LEU:O	2.13	0.48
3:C:15:GLU:HB3	3:C:45:SER:CB	2.44	0.48
3:C:131:ARG:NH1	3:C:173:GLU:OE2	2.46	0.48
4:D:227:PHE:HB3	4:D:276:VAL:HG12	1.96	0.48
5:E:608:ALA:CB	5:E:649:LEU:HD13	2.43	0.48
8:2:404:ARG:NH1	12:6:299:GLU:HA	2.29	0.48
8:2:756:SER:N	8:2:757:PRO:HD2	2.28	0.48
8:2:776:PRO:HG3	8:2:822:LYS:HG3	1.94	0.48
9:3:413:THR:CG2	9:3:549:VAL:HG11	2.30	0.48
9:3:417:GLN:HG3	11:5:404:MET:HE1	1.95	0.48
9:3:702:LEU:HA	9:3:705:LEU:HG	1.95	0.48
10:4:198:LEU:HD12	10:4:226:TYR:HB3	1.95	0.48
10:4:223:GLU:CB	10:4:228:LYS:HE3	2.41	0.48
10:4:340:PRO:HD3	12:6:452:ILE:HD11	1.94	0.48
10:4:343:LYS:NZ	10:4:392:ALA:HB3	2.28	0.48
10:4:523:ALA:HA	10:4:526:ILE:CG1	2.44	0.48
11:5:294:ILE:HG21	11:5:330:ILE:HG23	1.92	0.48
11:5:397:LYS:CG	11:5:399:ILE:HD11	2.44	0.48
11:5:550:PHE:HB3	11:5:553:ILE:HD11	1.93	0.48
12:6:281:SER:O	12:6:284:ILE:HG22	2.13	0.48
12:6:292:GLY:C	12:6:394:ARG:HA	2.34	0.48
12:6:767:LYS:HE3	12:6:769:ALA:HB3	1.95	0.48
13:7:265:CYS:SG	13:7:289:CYS:N	2.87	0.48
13:7:660:VAL:HG12	13:7:689:LEU:CD1	2.36	0.48
1:A:96:ILE:O	1:A:99:SER:OG	2.22	0.48
2:B:118:ASN:OD1	2:B:122:LEU:HD11	2.14	0.48
2:B:148:LEU:HD23	2:B:148:LEU:O	2.13	0.48
2:B:151:ILE:HA	2:B:154:ILE:HG12	1.94	0.48
2:B:152:ARG:O	2:B:156:VAL:HG23	2.14	0.48
3:C:16:PHE:C	3:C:45:SER:HA	2.33	0.48
3:C:33:ASN:HB3	3:C:34:PRO:HD3	1.96	0.48
4:D:62:ASP:HA	4:D:65:LYS:CB	2.44	0.48
4:D:123:LYS:HE2	5:E:20:SER:HB3	1.95	0.48
4:D:124:LEU:HD12	4:D:124:LEU:H	1.79	0.48
4:D:190:TRP:O	4:D:193:LEU:HB3	2.14	0.48
6:F:4:DG:H1'	7:G:16:DG:H22	1.79	0.48
8:2:394:PRO:O	8:2:397:VAL:HB	2.13	0.48
8:2:544:ASP:HB2	8:2:683:VAL:CG2	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:314:LEU:HD23	11:5:201:THR:HA	1.95	0.48
9:3:403:ILE:HA	9:3:544:ASP:OD2	2.14	0.48
9:3:405:ILE:HD12	9:3:405:ILE:N	2.29	0.48
9:3:428:LEU:O	9:3:469:VAL:N	2.41	0.48
9:3:667:VAL:HG11	9:3:719:LYS:NZ	2.28	0.48
10:4:256:ASP:OD2	10:4:260:GLN:NE2	2.46	0.48
10:4:333:LEU:HD21	10:4:400:GLN:HB3	1.96	0.48
10:4:404:ASP:OD1	10:4:405:PHE:N	2.46	0.48
10:4:685:ASN:C	10:4:838:THR:HB	2.34	0.48
10:4:694:LEU:HG	10:4:698:LEU:HD23	1.95	0.48
11:5:444:SER:O	11:5:447:ALA:HB3	2.14	0.48
12:6:570:ASN:C	12:6:571:ILE:HD12	2.34	0.48
12:6:702:THR:HG23	12:6:704:PRO:HG2	1.95	0.48
12:6:711:LEU:HG	12:6:712:PHE:N	2.29	0.48
12:6:723:ILE:N	12:6:723:ILE:HD12	2.28	0.48
13:7:402:MET:CA	13:7:405:ILE:HB	2.27	0.48
13:7:648:LYS:HE2	13:7:704:LEU:HD13	1.96	0.48
13:7:698:ALA:HA	13:7:701:LYS:HD3	1.96	0.48
4:D:102:SER:O	4:D:105:PHE:HB3	2.13	0.48
5:E:75:ASP:CG	5:E:118:ARG:HH12	2.17	0.48
5:E:318:LEU:CB	5:E:411:ARG:HA	2.42	0.48
5:E:536:LEU:HA	5:E:539:TYR:HD2	1.77	0.48
5:E:537:ASP:CA	5:E:540:ARG:HG3	2.40	0.48
5:E:557:ALA:HA	5:E:560:GLU:HB3	1.95	0.48
6:F:3:DC:H2'	6:F:4:DG:C8	2.48	0.48
8:2:555:TYR:O	8:2:559:THR:OG1	2.22	0.48
8:2:617:ARG:HA	8:2:620:ILE:CG1	2.42	0.48
9:3:132:LEU:HG	9:3:136:MET:HG2	1.96	0.48
9:3:225:ILE:H	9:3:225:ILE:CD1	2.23	0.48
9:3:690:ASP:O	9:3:694:LYS:N	2.37	0.48
10:4:621:LEU:HA	10:4:624:SER:CB	2.38	0.48
10:4:679:GLY:N	10:4:680:SER:HA	2.29	0.48
11:5:137:LEU:HD12	11:5:137:LEU:C	2.34	0.48
11:5:425:LEU:HD23	11:5:425:LEU:C	2.34	0.48
12:6:111:VAL:CG1	12:6:166:LEU:HG	2.43	0.48
12:6:357:GLN:NE2	12:6:387:GLU:H	2.12	0.48
12:6:550:GLN:HG3	12:6:571:ILE:HD13	1.94	0.48
1:A:149:ILE:HG23	1:A:151:LEU:CB	2.44	0.48
2:B:17:GLN:HA	2:B:20:VAL:CG1	2.41	0.48
2:B:121:VAL:HG12	2:B:125:ILE:CD1	2.44	0.48
5:E:66:GLU:OE1	5:E:69:ARG:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:311:LYS:NZ	11:5:71:TYR:O	2.31	0.48
5:E:345:ASN:CA	5:E:350:LEU:HG	2.31	0.48
8:2:443:GLY:HA2	8:2:444:PHE:HA	1.70	0.48
8:2:497:ILE:O	8:2:501:MET:HE2	2.14	0.48
8:2:609:PHE:HE2	8:2:677:PHE:CZ	2.30	0.48
8:2:614:ASP:O	8:2:618:THR:HG23	2.13	0.48
8:2:759:PRO:HG2	8:2:762:LEU:CD1	2.44	0.48
8:2:810:LEU:C	8:2:810:LEU:HD23	2.34	0.48
9:3:104:ARG:HG3	9:3:111:TRP:CZ3	2.49	0.48
9:3:270:LEU:CD2	11:5:464:LEU:HD22	2.40	0.48
9:3:374:HIS:HB2	9:3:378:LYS:HZ2	1.78	0.48
9:3:379:LYS:HD2	9:3:732:LEU:HD21	1.96	0.48
9:3:440:VAL:HG12	9:3:441:GLY:N	2.28	0.48
9:3:502:ILE:N	9:3:502:ILE:HD12	2.28	0.48
9:3:676:ILE:HG23	9:3:680:VAL:CG2	2.44	0.48
9:3:684:THR:HG21	13:7:610:GLU:HA	1.95	0.48
10:4:243:LEU:CD1	10:4:303:VAL:HG11	2.44	0.48
10:4:246:ARG:HG3	10:4:246:ARG:O	2.14	0.48
10:4:329:LYS:O	10:4:401:GLU:HB2	2.14	0.48
10:4:453:LEU:HB2	13:7:278:PHE:CE2	2.49	0.48
10:4:501:ILE:HG22	10:4:502:THR:O	2.14	0.48
10:4:520:SER:O	10:4:523:ALA:N	2.46	0.48
10:4:820:GLU:HA	10:4:823:GLN:OE1	2.14	0.48
11:5:86:ILE:HA	11:5:89:LEU:CG	2.39	0.48
11:5:544:THR:CB	11:5:547:LEU:HD12	2.43	0.48
12:6:548:LEU:HD12	12:6:548:LEU:N	2.29	0.48
12:6:586:LYS:CA	12:6:589:VAL:HG12	2.43	0.48
13:7:464:VAL:HG12	13:7:464:VAL:O	2.14	0.48
13:7:543:GLN:HE21	13:7:560:ARG:HA	1.79	0.48
1:A:83:LYS:HA	1:A:86:LEU:HD12	1.95	0.48
1:A:108:ASP:HB3	1:A:109:LEU:O	2.14	0.48
1:A:177:GLU:OE1	1:A:177:GLU:N	2.41	0.48
4:D:123:LYS:HG3	4:D:126:LEU:HD22	1.95	0.48
4:D:174:LEU:HG	4:D:175:LEU:CD1	2.43	0.48
5:E:258:LEU:HD23	5:E:258:LEU:C	2.35	0.48
5:E:492:LEU:HG	5:E:496:ILE:CD1	2.43	0.48
8:2:241:SER:HB3	8:2:296:ARG:NH1	2.29	0.48
8:2:547:THR:HG22	8:2:548:ALA:N	2.29	0.48
8:2:587:LYS:HG3	8:2:588:GLU:N	2.29	0.48
8:2:760:GLN:O	8:2:764:MET:HG2	2.14	0.48
9:3:403:ILE:HD12	9:3:403:ILE:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:428:LEU:C	9:3:469:VAL:H	2.15	0.48
9:3:486:ILE:O	9:3:490:MET:N	2.46	0.48
9:3:666:ARG:HA	9:3:667:VAL:HA	1.58	0.48
9:3:681:LYS:O	9:3:685:ASP:HB2	2.14	0.48
11:5:130:ASN:HA	11:5:131:SER:HA	1.71	0.48
11:5:456:ASP:OD1	11:5:457:PRO:HD2	2.14	0.48
11:5:503:SER:C	11:5:504:ILE:HD12	2.34	0.48
11:5:608:LEU:C	11:5:608:LEU:HD12	2.34	0.48
12:6:118:PHE:CE1	12:6:161:ARG:HB3	2.35	0.48
12:6:126:SER:HB3	12:6:131:GLU:HG2	1.96	0.48
12:6:417:PRO:HG2	12:6:448:LEU:CD2	2.42	0.48
12:6:641:PHE:H	12:6:682:ALA:HB2	1.79	0.48
13:7:73:ARG:NH2	13:7:132:ILE:HA	2.29	0.48
13:7:237:GLN:O	13:7:354:ILE:HA	2.14	0.48
2:B:149:ARG:HH21	3:C:191:MET:HE1	1.79	0.47
3:C:193:LYS:HD3	5:E:487:ARG:NH1	2.29	0.47
5:E:129:TRP:HB3	5:E:133:ASN:HD22	1.78	0.47
5:E:285:ALA:HB1	5:E:288:TYR:CB	2.37	0.47
5:E:287:VAL:C	5:E:291:LEU:HG	2.34	0.47
5:E:298:GLU:OE1	5:E:301:ARG:HD3	2.15	0.47
5:E:488:LYS:HB3	5:E:491:LEU:HD21	1.95	0.47
5:E:493:ASN:HA	5:E:496:ILE:CG1	2.44	0.47
6:F:18:DT:H1'	6:F:19:DT:C4	2.49	0.47
8:2:580:VAL:HG21	8:2:591:LEU:CG	2.44	0.47
9:3:164:HIS:CE1	9:3:178:LYS:HD3	2.48	0.47
9:3:256:ILE:O	9:3:276:VAL:N	2.36	0.47
9:3:294:VAL:HG22	9:3:326:VAL:HG22	1.95	0.47
9:3:420:ARG:NH1	11:5:499:GLN:HB3	2.26	0.47
10:4:501:ILE:HD11	10:4:749:MET:HB2	1.95	0.47
10:4:618:SER:CB	10:4:622:VAL:HG11	2.44	0.47
11:5:33:ASN:HB3	11:5:37:GLU:HG3	1.95	0.47
11:5:50:LEU:CD2	11:5:101:ILE:HD12	2.41	0.47
11:5:207:LEU:HD13	11:5:241:TYR:O	2.14	0.47
11:5:331:LEU:HD12	11:5:331:LEU:O	2.14	0.47
11:5:388:ILE:HG22	11:5:392:LEU:HD21	1.96	0.47
11:5:414:LEU:CD1	11:5:422:LYS:HB2	2.32	0.47
11:5:426:LEU:HA	11:5:429:VAL:HG23	1.95	0.47
11:5:455:ARG:NH1	11:5:460:ARG:HB3	2.29	0.47
11:5:617:GLN:OE1	11:5:617:GLN:N	2.31	0.47
12:6:167:ALA:O	12:6:170:ILE:HB	2.14	0.47
12:6:417:PRO:HG2	12:6:448:LEU:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:640:GLU:HG2	12:6:683:ASN:H	1.78	0.47
13:7:17:LEU:HA	13:7:20:GLU:HB3	1.95	0.47
13:7:88:TYR:O	13:7:92:LYS:N	2.46	0.47
13:7:397:VAL:O	13:7:401:VAL:HG23	2.14	0.47
13:7:636:SER:HA	13:7:639:ARG:HE	1.79	0.47
13:7:677:SER:OG	13:7:678:LYS:N	2.47	0.47
1:A:47:LEU:HD23	1:A:47:LEU:C	2.34	0.47
1:A:84:ARG:CZ	3:C:3:TYR:HA	2.44	0.47
1:A:129:GLU:HA	1:A:132:LYS:CE	2.27	0.47
2:B:120:LEU:CD1	2:B:176:LEU:HB3	2.38	0.47
2:B:161:LYS:HA	3:C:133:GLN:CD	2.34	0.47
3:C:77:PRO:HB2	3:C:79:MET:HG2	1.96	0.47
5:E:92:LEU:HD23	5:E:96:LEU:CD1	2.44	0.47
5:E:315:THR:HA	5:E:316:LEU:O	2.15	0.47
5:E:334:LEU:HG	5:E:338:PHE:CE2	2.49	0.47
5:E:433:GLU:CA	5:E:541:ASN:HD22	2.27	0.47
8:2:253:LYS:HB3	8:2:255:ILE:CG1	2.41	0.47
8:2:522:GLY:HA3	8:2:818:GLU:OE2	2.15	0.47
9:3:386:MET:HE3	9:3:715:VAL:HG22	1.95	0.47
9:3:388:GLY:N	9:3:714:LYS:HZ2	2.12	0.47
10:4:189:GLU:CA	10:4:192:THR:HG23	2.43	0.47
10:4:508:LYS:O	10:4:512:VAL:HG23	2.14	0.47
10:4:722:LYS:HA	10:4:725:THR:OG1	2.14	0.47
10:4:827:ARG:HA	10:4:830:ARG:HG2	1.95	0.47
11:5:59:TYR:O	11:5:136:GLN:N	2.40	0.47
11:5:302:ASN:OD1	11:5:324:ARG:CD	2.59	0.47
12:6:144:LYS:HA	12:6:147:ASP:OD1	2.15	0.47
12:6:377:LEU:CD1	12:6:454:PHE:H	2.27	0.47
12:6:609:THR:HG22	12:6:610:ALA:N	2.29	0.47
12:6:695:LEU:HD21	12:6:699:LEU:HD21	1.96	0.47
12:6:696:ARG:HD2	12:6:706:MET:SD	2.54	0.47
12:6:720:ASN:CG	12:6:723:ILE:HD13	2.35	0.47
1:A:157:PRO:HB2	2:B:14:GLU:OE2	2.14	0.47
2:B:13:PRO:HA	2:B:16:ILE:HG12	1.97	0.47
3:C:105:PHE:CZ	3:C:127:LEU:HD22	2.46	0.47
4:D:268:GLU:OE1	4:D:268:GLU:N	2.48	0.47
5:E:127:ARG:N	5:E:246:THR:O	2.37	0.47
8:2:204:SER:HA	8:2:207:ILE:CD1	2.44	0.47
8:2:433:ASN:HA	8:2:434:TYR:HA	1.67	0.47
8:2:502:ALA:CB	8:2:505:ILE:HD12	2.43	0.47
9:3:235:ASP:HB2	13:7:5:LEU:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:262:PRO:HA	9:3:265:ALA:CB	2.44	0.47
10:4:248:LEU:HD22	10:4:254:THR:CB	2.44	0.47
10:4:566:LEU:HD23	10:4:672:LEU:CD2	2.37	0.47
10:4:603:ALA:HB3	10:4:658:LYS:NZ	2.28	0.47
10:4:622:VAL:O	10:4:625:ASP:HB3	2.13	0.47
10:4:642:ARG:HA	10:4:645:LEU:HB2	1.97	0.47
10:4:802:ILE:HD13	12:6:735:HIS:CB	2.43	0.47
10:4:819:LEU:O	10:4:819:LEU:HD23	2.14	0.47
10:4:826:VAL:O	10:4:829:ILE:HB	2.14	0.47
11:5:373:SER:HB3	11:5:594:ILE:CD1	2.41	0.47
11:5:440:SER:O	11:5:481:GLU:HB2	2.13	0.47
12:6:379:VAL:HG23	12:6:454:PHE:O	2.14	0.47
12:6:452:ILE:HD12	12:6:452:ILE:H	1.79	0.47
12:6:608:LEU:HG	12:6:628:LEU:H	1.79	0.47
12:6:656:MET:HA	12:6:656:MET:CE	2.44	0.47
12:6:741:ALA:O	12:6:743:GLU:HG3	2.14	0.47
12:6:769:ALA:O	12:6:772:TYR:HB3	2.14	0.47
13:7:13:ASP:O	13:7:17:LEU:HD13	2.13	0.47
13:7:68:GLN:HG3	13:7:129:THR:HG21	1.96	0.47
13:7:142:ILE:HG22	13:7:146:ARG:NE	2.30	0.47
13:7:357:PRO:HB3	13:7:374:THR:HB	1.96	0.47
2:B:184:PHE:HD2	2:B:185:ILE:HG13	1.78	0.47
3:C:119:GLU:O	3:C:123:VAL:HG23	2.14	0.47
4:D:157:TYR:HB2	4:D:219:ILE:O	2.14	0.47
5:E:43:LYS:HB2	5:E:484:LEU:CD2	2.42	0.47
5:E:336:ASP:HA	5:E:339:TYR:CB	2.44	0.47
5:E:549:GLY:O	5:E:553:ILE:N	2.36	0.47
8:2:334:LEU:HD21	11:5:322:ALA:HB3	1.95	0.47
8:2:586:THR:HA	8:2:587:LYS:C	2.34	0.47
9:3:185:ILE:O	9:3:258:VAL:HG13	2.14	0.47
9:3:217:ALA:HB1	9:3:301:LEU:HD13	1.97	0.47
9:3:447:THR:HG21	9:3:455:ARG:HE	1.78	0.47
9:3:563:GLU:HA	9:3:566:LEU:HB2	1.95	0.47
10:4:223:GLU:HB3	10:4:228:LYS:NZ	2.29	0.47
10:4:232:GLU:O	10:4:236:LEU:HD13	2.15	0.47
10:4:237:GLY:CA	10:4:299:LYS:HE2	2.44	0.47
10:4:616:LEU:O	12:6:362:GLN:NE2	2.45	0.47
10:4:654:ILE:O	10:4:665:LEU:N	2.35	0.47
10:4:729:LEU:HB3	10:4:730:GLU:CA	2.42	0.47
10:4:761:ILE:O	10:4:816:VAL:HA	2.14	0.47
11:5:166:ILE:HG23	11:5:257:LYS:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:354:GLU:HG2	11:5:605:TYR:CE1	2.29	0.47
11:5:649:THR:H	11:5:652:GLN:HG3	1.79	0.47
12:6:276:ILE:HA	12:6:279:ILE:CD1	2.45	0.47
12:6:722:LYS:O	12:6:726:GLU:HG3	2.13	0.47
13:7:418:ILE:HG21	13:7:432:LEU:HD12	1.96	0.47
13:7:551:ALA:HB3	13:7:553:ILE:HD12	1.96	0.47
1:A:29:LEU:HD23	1:A:93:ARG:CD	2.45	0.47
3:C:5:ASP:HB3	3:C:8:ASP:OD2	2.15	0.47
3:C:96:ASP:OD1	3:C:98:HIS:HB3	2.14	0.47
4:D:232:VAL:HG21	4:D:269:LEU:HD12	1.97	0.47
5:E:140:ILE:HB	5:E:141:GLN:C	2.35	0.47
5:E:530:LEU:O	5:E:571:SER:HA	2.13	0.47
5:E:605:PHE:CZ	5:E:650:LEU:HD21	2.48	0.47
6:F:24:DT:H5 ⁷	12:6:665:LYS:HB3	1.95	0.47
8:2:241:SER:OG	8:2:296:ARG:NH2	2.48	0.47
8:2:496:LYS:CA	8:2:499:SER:HB3	2.34	0.47
9:3:42:VAL:HG13	9:3:153:TRP:HZ3	1.80	0.47
9:3:254:GLN:CG	9:3:278:LEU:HD12	2.44	0.47
9:3:563:GLU:HA	9:3:566:LEU:CG	2.44	0.47
10:4:265:PRO:HG2	10:4:438:THR:HG21	1.96	0.47
10:4:423:LEU:HD13	10:4:463:VAL:O	2.14	0.47
11:5:253:GLN:HG2	11:5:255:PHE:CD2	2.49	0.47
11:5:487:ASP:C	11:5:490:ARG:HB3	2.34	0.47
11:5:624:SER:O	11:5:628:THR:HG23	2.14	0.47
12:6:276:ILE:HD12	12:6:277:ARG:N	2.29	0.47
12:6:304:LEU:C	12:6:306:LYS:H	2.17	0.47
12:6:397:PHE:HD1	12:6:459:VAL:HG22	1.79	0.47
12:6:571:ILE:O	12:6:679:LEU:HA	2.14	0.47
12:6:695:LEU:CD1	12:6:838:VAL:HG22	2.33	0.47
12:6:736:MET:HB3	12:6:738:ARG:O	2.13	0.47
13:7:28:PHE:HB3	13:7:61:PRO:CB	2.44	0.47
13:7:311:GLN:CB	13:7:340:VAL:HG23	2.44	0.47
13:7:359:PRO:HA	13:7:360:TYR:HA	1.74	0.47
13:7:383:GLN:HB2	13:7:386:LYS:HE2	1.97	0.47
1:A:25:GLN:O	1:A:25:GLN:HG2	2.15	0.47
1:A:32:TYR:HB3	1:A:124:SER:HB3	1.95	0.47
2:B:121:VAL:HA	3:C:190:TRP:HH2	1.79	0.47
4:D:97:LEU:HD23	4:D:97:LEU:C	2.35	0.47
4:D:267:VAL:CB	4:D:268:GLU:CA	2.91	0.47
5:E:150:ASP:HB3	5:E:152:LEU:CB	2.44	0.47
5:E:387:GLU:O	5:E:391:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:242:LEU:CD2	8:2:295:VAL:HG12	2.45	0.47
8:2:325:THR:HB	8:2:389:THR:O	2.14	0.47
8:2:776:PRO:HD3	8:2:822:LYS:CG	2.43	0.47
8:2:778:LEU:HD13	8:2:783:MET:CG	2.40	0.47
8:2:820:PHE:CE2	8:2:836:ARG:HB2	2.49	0.47
9:3:42:VAL:HG22	9:3:96:ILE:HD13	1.95	0.47
9:3:129:LEU:HD23	9:3:129:LEU:C	2.35	0.47
9:3:183:GLU:CB	9:3:293:ASN:HA	2.44	0.47
9:3:373:GLY:O	9:3:378:LYS:NZ	2.30	0.47
9:3:382:LEU:HA	9:3:385:LEU:CG	2.44	0.47
9:3:683:TYR:HA	9:3:686:LEU:CG	2.45	0.47
10:4:201:PHE:O	10:4:202:LYS:HB2	2.15	0.47
10:4:564:ILE:HG13	10:4:704:LEU:N	2.29	0.47
10:4:639:ASP:O	12:6:601:LYS:NZ	2.47	0.47
11:5:176:ALA:HB2	11:5:250:PHE:CD1	2.49	0.47
12:6:123:SER:HB2	12:6:136:TYR:CE2	2.50	0.47
12:6:142:PHE:O	12:6:145:ILE:HB	2.15	0.47
12:6:189:VAL:HG21	12:6:263:PHE:HE2	1.75	0.47
12:6:287:LEU:HD21	12:6:398:THR:HG23	1.95	0.47
13:7:76:ASN:O	13:7:200:TYR:HB2	2.14	0.47
13:7:87:GLN:OE1	13:7:214:ARG:NH1	2.47	0.47
13:7:88:TYR:HA	13:7:91:GLU:HB3	1.95	0.47
13:7:355:PHE:CD1	13:7:376:LEU:HB2	2.49	0.47
1:A:173:GLU:CB	1:A:183:LEU:HD23	2.45	0.47
2:B:26:LYS:HA	2:B:70:GLU:HA	1.97	0.47
2:B:80:LYS:CE	2:B:130:ALA:HA	2.45	0.47
2:B:87:ILE:HD12	2:B:88:VAL:H	1.80	0.47
2:B:169:GLN:HA	4:D:275:TYR:CD1	2.50	0.47
2:B:197:THR:HG22	4:D:263:LEU:HD22	1.95	0.47
2:B:200:LEU:O	2:B:200:LEU:HD23	2.14	0.47
3:C:95:LEU:HD23	3:C:96:ASP:C	2.34	0.47
3:C:95:LEU:HD23	3:C:96:ASP:N	2.29	0.47
4:D:249:ASN:HB3	4:D:257:THR:CG2	2.45	0.47
4:D:259:THR:HG22	4:D:269:LEU:HD23	1.96	0.47
5:E:60:PRO:HD3	5:E:478:TRP:CZ2	2.42	0.47
5:E:150:ASP:HB3	5:E:151:THR:C	2.35	0.47
5:E:154:GLU:OE1	5:E:240:TYR:HB2	2.14	0.47
5:E:252:SER:HA	5:E:255:ILE:HD12	1.97	0.47
5:E:315:THR:HB	5:E:317:THR:CG2	2.44	0.47
5:E:366:MET:CB	5:E:368:ILE:HG13	2.45	0.47
5:E:477:PHE:O	5:E:480:SER:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:553:ILE:HD11	5:E:586:PRO:HA	1.96	0.47
5:E:572:ILE:HG12	5:E:577:ASP:HA	1.96	0.47
5:E:607:MET:O	5:E:611:GLN:HG2	2.14	0.47
6:F:19:DT:H2 ⁷	6:F:20:DT:C5	2.50	0.47
8:2:327:ARG:HD2	8:2:386:GLN:NE2	2.30	0.47
8:2:386:GLN:CB	8:2:415:VAL:HG13	2.42	0.47
8:2:523:VAL:N	8:2:818:GLU:OE1	2.48	0.47
8:2:540:LEU:HD12	8:2:541:LEU:H	1.80	0.47
8:2:546:GLY:HA2	12:6:798:ARG:CZ	2.44	0.47
8:2:574:VAL:CA	12:6:664:ALA:HB3	2.43	0.47
8:2:581:ARG:HG2	8:2:633:LYS:C	2.35	0.47
8:2:660:THR:O	8:2:850:LYS:HG3	2.15	0.47
8:2:680:LEU:HD12	8:2:680:LEU:N	2.29	0.47
8:2:758:ILE:HD12	8:2:758:ILE:H	1.80	0.47
8:2:826:SER:O	8:2:827:GLU:HB3	2.15	0.47
9:3:98:ILE:HD12	9:3:155:LEU:CD1	2.36	0.47
9:3:218:THR:HG21	9:3:277:ILE:HD11	1.95	0.47
9:3:253:HIS:HA	9:3:279:ASP:OD1	2.15	0.47
9:3:320:LEU:C	9:3:320:LEU:HD12	2.35	0.47
9:3:553:ILE:C	9:3:553:ILE:HD12	2.35	0.47
10:4:185:VAL:HG21	10:4:260:GLN:HB3	1.95	0.47
10:4:203:TYR:HD1	10:4:206:ARG:HB2	1.79	0.47
10:4:236:LEU:N	10:4:236:LEU:HD12	2.30	0.47
10:4:241:LEU:O	10:4:304:ARG:N	2.46	0.47
10:4:436:THR:N	10:4:465:HIS:O	2.42	0.47
10:4:499:ARG:NH2	10:4:749:MET:HA	2.29	0.47
10:4:686:LEU:HD12	10:4:687:PRO:HD2	1.97	0.47
10:4:696:PRO:HG2	10:4:697:PRO:HD3	1.96	0.47
11:5:63:VAL:HG13	11:5:68:LEU:HD21	1.95	0.47
11:5:148:LEU:CD1	11:5:274:LEU:HD12	2.36	0.47
11:5:181:ILE:HA	11:5:242:ILE:O	2.15	0.47
11:5:253:GLN:HG3	11:5:278:CYS:O	2.14	0.47
11:5:302:ASN:CG	11:5:324:ARG:NH1	2.68	0.47
11:5:356:GLU:O	11:5:360:LEU:HG	2.15	0.47
12:6:116:GLU:O	12:6:119:LEU:HG	2.15	0.47
12:6:185:LEU:HD23	12:6:185:LEU:C	2.34	0.47
12:6:568:ASP:O	12:6:569:ILE:HB	2.14	0.47
12:6:603:SER:HB2	12:6:604:SER:O	2.15	0.47
12:6:638:ILE:N	12:6:638:ILE:HD12	2.30	0.47
12:6:752:ARG:HA	12:6:755:ILE:CG1	2.45	0.47
12:6:783:ASP:OD1	12:6:783:ASP:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:127:LEU:HG	13:7:128:PRO:CD	2.34	0.47
13:7:208:SER:CB	13:7:209:GLN:CA	2.89	0.47
13:7:404:LEU:HD13	13:7:414:LEU:HD21	1.95	0.47
13:7:412:ASN:HA	13:7:415:ALA:HB3	1.96	0.47
13:7:610:GLU:O	13:7:614:GLU:HG3	2.15	0.47
2:B:11:PHE:CE1	4:D:71:ARG:HB2	2.50	0.47
4:D:174:LEU:C	4:D:175:LEU:HD12	2.35	0.47
4:D:232:VAL:O	4:D:271:ILE:HA	2.14	0.47
5:E:97:GLU:CA	5:E:98:ILE:HB	2.45	0.47
5:E:162:LEU:O	5:E:162:LEU:HD13	2.15	0.47
5:E:343:TYR:CZ	5:E:347:LYS:HE3	2.50	0.47
5:E:539:TYR:HD1	5:E:544:THR:HG21	1.79	0.47
5:E:577:ASP:HB3	5:E:634:ARG:H	1.79	0.47
5:E:580:LEU:CG	5:E:629:ILE:HD11	2.45	0.47
5:E:619:LYS:HD2	5:E:633:ARG:HG3	1.97	0.47
6:F:18:DT:H2 [?]	6:F:19:DT:C7	2.44	0.47
6:F:24:DT:H2 [?]	6:F:25:DT:H71	1.96	0.47
8:2:204:SER:O	8:2:207:ILE:HB	2.15	0.47
8:2:231:ILE:HG21	8:2:282:HIS:CB	2.45	0.47
8:2:446:VAL:HG13	12:6:302:PRO:O	2.15	0.47
8:2:541:LEU:HB3	8:2:649:ALA:CA	2.45	0.47
8:2:568:GLY:O	8:2:612:MET:HG2	2.14	0.47
8:2:584:PRO:CB	11:5:457:PRO:HB3	2.45	0.47
8:2:600:ASP:C	8:2:602:GLY:H	2.18	0.47
8:2:611:LYS:CG	12:6:650:VAL:HG22	2.45	0.47
8:2:624:MET:CE	8:2:676:ARG:HB2	2.45	0.47
8:2:674:LEU:HA	8:2:677:PHE:CD2	2.49	0.47
9:3:180:VAL:O	9:3:295:VAL:HA	2.14	0.47
9:3:258:VAL:N	9:3:274:ILE:O	2.47	0.47
9:3:430:ILE:HG22	9:3:431:ALA:O	2.15	0.47
9:3:553:ILE:HD12	9:3:553:ILE:O	2.15	0.47
10:4:309:GLY:O	10:4:327:ASN:ND2	2.48	0.47
10:4:344:VAL:HA	10:4:360:ILE:H	1.79	0.47
10:4:806:GLU:HA	10:4:809:ALA:CB	2.44	0.47
10:4:827:ARG:HA	10:4:830:ARG:CB	2.45	0.47
11:5:86:ILE:HG22	11:5:86:ILE:O	2.15	0.47
11:5:294:ILE:HD12	11:5:294:ILE:N	2.29	0.47
11:5:525:PRO:CA	11:5:539:ASN:HD21	2.27	0.47
12:6:309:PHE:HA	12:6:345:THR:O	2.15	0.47
12:6:776:LYS:O	12:6:780:LEU:HB2	2.14	0.47
13:7:335:VAL:HG13	13:7:339:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:443:ARG:CG	13:7:449:LYS:HE3	2.36	0.47
1:A:62:MET:HE2	1:A:62:MET:HA	1.96	0.47
3:C:27:LEU:CD1	3:C:38:ILE:HG12	2.44	0.47
4:D:257:THR:H	4:D:269:LEU:HB2	1.80	0.47
4:D:271:ILE:HD12	4:D:272:GLY:N	2.30	0.47
8:2:235:GLY:HA2	8:2:283:TYR:CZ	2.50	0.47
8:2:409:ILE:HD11	8:2:450:ILE:CG2	2.37	0.47
8:2:500:SER:HB2	8:2:763:LEU:CD2	2.45	0.47
8:2:572:SER:HA	12:6:662:SER:O	2.15	0.47
9:3:194:PRO:HG2	13:7:373:GLU:N	2.30	0.47
9:3:384:MET:SD	9:3:513:ILE:HD11	2.55	0.47
9:3:390:GLU:HG2	9:3:509:ARG:HH22	1.79	0.47
9:3:477:LYS:HG3	11:5:491:VAL:HG13	1.96	0.47
9:3:488:GLU:OE2	9:3:492:GLN:HG2	2.15	0.47
10:4:505:ASP:HB2	10:4:746:PHE:CE1	2.46	0.47
10:4:638:SER:O	10:4:641:THR:HB	2.15	0.47
10:4:695:PRO:HB2	10:4:697:PRO:HG2	1.97	0.47
10:4:748:THR:HA	10:4:751:ILE:CG1	2.45	0.47
10:4:854:LYS:O	10:4:857:ILE:HG12	2.14	0.47
11:5:59:TYR:HA	11:5:135:PHE:CD1	2.50	0.47
11:5:184:ARG:N	11:5:240:PRO:O	2.42	0.47
11:5:267:VAL:HG12	11:5:268:GLY:H	1.80	0.47
11:5:407:ARG:CD	11:5:498:GLU:HA	2.45	0.47
11:5:514:ASN:HB3	11:5:516:ARG:HH12	1.80	0.47
12:6:178:LEU:O	12:6:181:LEU:HD13	2.14	0.47
12:6:265:ILE:HD12	12:6:265:ILE:N	2.30	0.47
12:6:273:VAL:HG13	12:6:290:ILE:HA	1.96	0.47
12:6:403:VAL:CG1	12:6:404:VAL:N	2.78	0.47
12:6:616:GLU:CB	12:6:617:GLU:CA	2.93	0.47
12:6:732:VAL:O	12:6:736:MET:HG2	2.15	0.47
13:7:113:PHE:O	13:7:117:PHE:HB3	2.15	0.47
13:7:128:PRO:CB	13:7:129:THR:CA	2.93	0.47
13:7:404:LEU:HA	13:7:407:SER:HB2	1.95	0.47
13:7:641:TYR:OH	13:7:702:LEU:O	2.31	0.47
1:A:20:TYR:CE1	1:A:25:GLN:HG3	2.50	0.47
1:A:31:MET:HE2	1:A:33:HIS:HA	1.95	0.47
1:A:147:VAL:HG11	1:A:149:ILE:CG1	2.41	0.47
1:A:173:GLU:HB3	1:A:182:ASN:HA	1.97	0.47
2:B:11:PHE:HB2	2:B:179:ASN:ND2	2.30	0.47
2:B:26:LYS:O	2:B:87:ILE:HD12	2.15	0.47
3:C:187:THR:O	3:C:191:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:127:ARG:CG	5:E:248:VAL:HG23	2.45	0.47
5:E:130:ASN:OD1	5:E:131:LEU:N	2.48	0.47
5:E:226:ARG:O	5:E:230:ILE:N	2.45	0.47
5:E:232:GLU:O	5:E:236:VAL:HG23	2.15	0.47
8:2:242:LEU:CD2	8:2:244:VAL:HG23	2.45	0.47
8:2:541:LEU:HB3	8:2:649:ALA:HB2	1.97	0.47
8:2:632:SER:HB2	11:5:442:LYS:O	2.15	0.47
9:3:33:ASP:HA	9:3:39:ARG:HH11	1.80	0.47
9:3:42:VAL:HG22	9:3:96:ILE:CD1	2.44	0.47
9:3:472:ILE:HG22	9:3:475:PHE:HB2	1.96	0.47
9:3:472:ILE:CG2	9:3:475:PHE:HB2	2.45	0.47
9:3:558:ASP:HA	9:3:561:ILE:HB	1.96	0.47
10:4:179:ILE:HD11	10:4:184:ASN:HA	1.97	0.47
10:4:502:THR:O	10:4:506:LEU:HG	2.15	0.47
11:5:148:LEU:CB	11:5:260:GLU:HB3	2.42	0.47
11:5:243:ILE:HG21	11:5:245:HIS:CE1	2.50	0.47
11:5:375:ALA:CB	11:5:385:LYS:HE3	2.45	0.47
11:5:399:ILE:O	11:5:399:ILE:HG22	2.15	0.47
11:5:553:ILE:N	11:5:553:ILE:HD12	2.30	0.47
12:6:530:VAL:HA	12:6:533:ILE:HD11	1.96	0.47
12:6:543:VAL:CG2	12:6:715:ILE:HD11	2.44	0.47
12:6:585:LEU:HD13	12:6:597:TYR:CE1	2.50	0.47
12:6:803:MET:HE2	12:6:831:LEU:HD12	1.96	0.47
13:7:120:ALA:O	13:7:124:ASN:ND2	2.48	0.47
13:7:355:PHE:HD1	13:7:376:LEU:HB2	1.80	0.47
1:A:182:ASN:HB3	5:E:74:LEU:CD1	2.19	0.46
1:A:196:VAL:O	1:A:200:ILE:HG22	2.15	0.46
3:C:80:PHE:HE2	3:C:111:TRP:CG	2.33	0.46
3:C:82:THR:CA	3:C:85:MET:HG2	2.43	0.46
3:C:97:LEU:HD12	3:C:173:GLU:OE1	2.15	0.46
3:C:138:HIS:HB3	3:C:177:TYR:HE1	1.80	0.46
4:D:69:ASN:OD1	4:D:293:LEU:HD13	2.14	0.46
4:D:79:TYR:CD1	4:D:176:SER:HB2	2.50	0.46
4:D:236:PRO:HB2	4:D:238:GLY:O	2.15	0.46
4:D:258:VAL:HA	4:D:259:THR:HG1	1.78	0.46
4:D:262:ASP:OD1	4:D:263:LEU:N	2.48	0.46
5:E:289:ASN:HA	5:E:292:TYR:CD2	2.50	0.46
5:E:363:PHE:O	5:E:367:GLY:N	2.48	0.46
5:E:369:PRO:HG3	8:2:289:ILE:CD1	2.44	0.46
5:E:608:ALA:O	5:E:611:GLN:HB2	2.14	0.46
8:2:319:ARG:NE	8:2:427:THR:HG22	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:502:ALA:CB	8:2:512:LYS:HE2	2.29	0.46
8:2:549:LYS:HG3	8:2:550:SER:N	2.30	0.46
8:2:612:MET:HE2	8:2:620:ILE:HD11	1.95	0.46
8:2:629:ILE:N	8:2:640:LEU:O	2.48	0.46
8:2:777:LYS:CB	11:5:577:THR:HG21	2.45	0.46
9:3:164:HIS:HE2	9:3:178:LYS:HB3	1.79	0.46
9:3:195:LYS:NZ	13:7:371:LEU:HB2	2.30	0.46
9:3:351:ASN:O	9:3:355:LYS:HD3	2.16	0.46
9:3:653:ILE:O	9:3:656:LEU:HB3	2.14	0.46
10:4:281:VAL:HG22	10:4:297:GLU:CB	2.45	0.46
11:5:409:ASP:N	11:5:518:SER:HB3	2.28	0.46
11:5:451:ALA:CA	11:5:467:GLY:HA3	2.44	0.46
11:5:564:ARG:O	11:5:567:SER:OG	2.30	0.46
11:5:625:ASN:ND2	11:5:681:ILE:HG12	2.30	0.46
11:5:625:ASN:HD22	11:5:681:ILE:HG12	1.80	0.46
12:6:115:PHE:CA	12:6:118:PHE:HB3	2.40	0.46
12:6:289:SER:C	12:6:290:ILE:HD12	2.36	0.46
12:6:551:MET:HE1	12:6:591:PHE:CE2	2.39	0.46
12:6:565:LEU:O	12:6:565:LEU:HD12	2.15	0.46
13:7:154:LEU:HA	13:7:157:ARG:HB3	1.97	0.46
13:7:619:VAL:HG22	13:7:622:HIS:O	2.15	0.46
2:B:175:LEU:O	2:B:179:ASN:N	2.48	0.46
2:B:187:GLU:CD	3:C:176:ILE:HG22	2.35	0.46
3:C:54:LEU:O	3:C:71:PHE:HB2	2.15	0.46
4:D:250:GLU:CG	4:D:256:TYR:HD2	2.22	0.46
5:E:34:LEU:HD12	5:E:543:LEU:HD21	1.97	0.46
5:E:98:ILE:O	5:E:98:ILE:HG22	2.16	0.46
5:E:285:ALA:CB	5:E:286:GLN:CA	2.90	0.46
5:E:359:LEU:O	5:E:362:MET:HB2	2.15	0.46
5:E:397:ASP:HA	5:E:402:GLN:HB2	1.97	0.46
5:E:421:ALA:O	5:E:425:VAL:N	2.44	0.46
5:E:542:PRO:HB3	5:E:629:ILE:HD12	1.95	0.46
5:E:565:LEU:N	5:E:586:PRO:HB3	2.30	0.46
8:2:410:LEU:O	8:2:411:LEU:HD12	2.15	0.46
8:2:636:ILE:O	11:5:447:ALA:HA	2.14	0.46
8:2:843:ASP:HA	8:2:846:VAL:CB	2.41	0.46
8:2:846:VAL:O	8:2:853:VAL:HG21	2.15	0.46
9:3:189:THR:HA	9:3:256:ILE:CG2	2.44	0.46
9:3:194:PRO:HG2	13:7:373:GLU:H	1.81	0.46
9:3:211:TYR:CE1	13:7:8:ILE:HD12	2.50	0.46
9:3:245:TYR:CE1	13:7:357:PRO:HG2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:495:VAL:HB	9:3:506:LEU:CD1	2.44	0.46
9:3:559:ARG:HH21	11:5:627:VAL:HG21	1.80	0.46
9:3:680:VAL:HG21	13:7:617:THR:HG21	1.97	0.46
9:3:712:HIS:ND1	9:3:725:ASP:OD1	2.48	0.46
10:4:665:LEU:O	10:4:665:LEU:HD12	2.15	0.46
11:5:32:LYS:CA	11:5:35:ILE:HD12	2.39	0.46
11:5:46:TYR:HH	11:5:64:ASN:H	1.54	0.46
11:5:50:LEU:HD23	11:5:54:ILE:HD11	1.97	0.46
11:5:91:GLU:HB3	11:5:134:THR:CG2	2.45	0.46
11:5:487:ASP:HA	11:5:490:ARG:CB	2.40	0.46
12:6:379:VAL:CG2	12:6:456:ALA:HB2	2.45	0.46
12:6:560:VAL:C	12:6:562:GLY:HA3	2.35	0.46
13:7:93:PHE:HD2	13:7:94:LEU:HD23	1.80	0.46
13:7:142:ILE:CG2	13:7:146:ARG:HE	2.28	0.46
13:7:415:ALA:HA	13:7:418:ILE:HD12	1.96	0.46
13:7:535:THR:O	13:7:538:HIS:HB3	2.15	0.46
13:7:697:GLN:O	13:7:701:LYS:HG3	2.15	0.46
3:C:105:PHE:HZ	3:C:127:LEU:CD2	2.26	0.46
4:D:154:PHE:CB	4:D:158:LEU:HG	2.45	0.46
4:D:161:LEU:O	4:D:161:LEU:HD23	2.14	0.46
5:E:5:ILE:HG23	5:E:142:CYS:SG	2.55	0.46
5:E:269:ASN:HA	5:E:272:LEU:HG	1.97	0.46
5:E:290:ARG:O	5:E:293:PRO:HD2	2.15	0.46
5:E:324:TYR:CD1	5:E:405:ILE:HA	2.50	0.46
5:E:358:ARG:O	5:E:361:LYS:HB3	2.14	0.46
5:E:421:ALA:O	5:E:425:VAL:HG23	2.15	0.46
5:E:530:LEU:CD2	5:E:536:LEU:HD11	2.43	0.46
7:G:11:DC:H2"	7:G:12:DG:C8	2.51	0.46
8:2:272:ASP:OD1	8:2:273:LEU:N	2.49	0.46
8:2:520:PHE:HE2	8:2:822:LYS:CB	2.16	0.46
8:2:619:SER:CA	8:2:622:GLU:HB3	2.39	0.46
8:2:704:VAL:HG13	12:6:766:THR:CG2	2.41	0.46
9:3:41:SER:O	9:3:45:ILE:HG12	2.15	0.46
9:3:461:ALA:O	9:3:465:ALA:N	2.48	0.46
9:3:666:ARG:HB3	9:3:667:VAL:CG2	2.45	0.46
10:4:198:LEU:HD23	10:4:279:CYS:SG	2.56	0.46
10:4:211:GLU:HG3	10:4:212:ARG:N	2.29	0.46
10:4:727:LEU:HD22	13:7:444:VAL:HG12	1.96	0.46
10:4:774:TYR:HA	10:4:777:MET:HB2	1.97	0.46
10:4:830:ARG:O	10:4:834:LYS:N	2.42	0.46
11:5:653:LEU:HA	11:5:656:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:158:LEU:HD22	12:6:170:ILE:HD12	1.96	0.46
12:6:275:ARG:HD2	12:6:367:GLU:CG	2.45	0.46
12:6:533:ILE:CD1	12:6:548:LEU:HD11	2.44	0.46
12:6:551:MET:HE2	12:6:755:ILE:HD13	1.97	0.46
12:6:796:THR:CG2	12:6:798:ARG:HB3	2.45	0.46
13:7:62:LYS:HE3	13:7:66:MET:SD	2.56	0.46
13:7:441:ASP:O	13:7:442:LYS:HB2	2.15	0.46
13:7:470:LEU:HD22	13:7:522:CYS:HB3	1.97	0.46
13:7:530:ASP:O	13:7:534:ARG:HG3	2.16	0.46
13:7:595:ASP:OD1	13:7:596:ILE:N	2.48	0.46
13:7:658:ASP:O	13:7:662:GLN:HG3	2.15	0.46
2:B:147:ASP:O	2:B:151:ILE:HG23	2.15	0.46
2:B:160:LEU:HD23	3:C:133:GLN:HE22	1.81	0.46
5:E:24:SER:HB2	5:E:25:CYS:HA	1.98	0.46
5:E:81:LEU:HD12	5:E:120:ILE:HG13	1.98	0.46
8:2:790:TYR:HA	8:2:793:LEU:HB2	1.97	0.46
8:2:853:VAL:O	8:2:857:LEU:N	2.47	0.46
9:3:183:GLU:HA	9:3:293:ASN:HA	1.97	0.46
9:3:570:ARG:HD2	11:5:614:LEU:O	2.16	0.46
9:3:701:THR:O	9:3:704:THR:OG1	2.26	0.46
10:4:292:ASP:N	10:4:293:LEU:HA	2.30	0.46
10:4:315:ARG:HH22	13:7:251:VAL:N	2.08	0.46
10:4:501:ILE:HD13	10:4:749:MET:HE2	1.97	0.46
10:4:531:TYR:HB2	10:4:723:HIS:ND1	2.31	0.46
10:4:545:PHE:HE1	10:4:751:ILE:HA	1.80	0.46
10:4:909:ARG:HH22	12:6:698:ASN:HA	1.80	0.46
10:4:913:GLU:HA	12:6:697:GLY:HA3	1.98	0.46
11:5:353:GLU:O	11:5:356:GLU:HG2	2.15	0.46
11:5:353:GLU:HA	11:5:356:GLU:OE2	2.16	0.46
11:5:426:LEU:HD13	11:5:478:CYS:HB3	1.97	0.46
11:5:653:LEU:CD2	11:5:657:ILE:HD11	2.45	0.46
12:6:260:GLU:O	12:6:261:ARG:NH1	2.35	0.46
12:6:558:SER:HB2	12:6:559:THR:HG22	1.97	0.46
12:6:663:ILE:HG22	12:6:664:ALA:N	2.29	0.46
12:6:713:PHE:HB3	12:6:837:ARG:NH1	2.30	0.46
12:6:781:ARG:HG2	12:6:795:ILE:CB	2.45	0.46
13:7:68:GLN:HA	13:7:71:ALA:HB3	1.96	0.46
13:7:426:LEU:O	13:7:426:LEU:HD23	2.16	0.46
1:A:106:GLY:H	1:A:107:LEU:HB2	1.80	0.46
3:C:135:LEU:HD23	3:C:138:HIS:CD2	2.50	0.46
4:D:282:ILE:C	4:D:282:ILE:HD12	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:92:LEU:HG	5:E:95:PHE:CD2	2.49	0.46
5:E:158:ALA:CB	5:E:237:LEU:HD13	2.45	0.46
5:E:600:PRO:C	5:E:602:LEU:H	2.18	0.46
8:2:277:GLU:HA	8:2:280:GLU:CB	2.46	0.46
8:2:793:LEU:CD1	8:2:863:ILE:HG13	2.44	0.46
9:3:198:ARG:HB3	9:3:249:THR:H	1.81	0.46
9:3:233:THR:HA	9:3:241:LEU:HB2	1.96	0.46
9:3:281:ASP:O	9:3:285:LYS:HG2	2.16	0.46
9:3:340:GLN:HE22	9:3:658:LYS:HD3	1.80	0.46
9:3:441:GLY:CA	9:3:462:MET:H	2.29	0.46
9:3:695:SER:HB3	9:3:696:PRO:CA	2.41	0.46
10:4:267:GLU:O	10:4:271:ILE:HD12	2.16	0.46
10:4:572:THR:O	10:4:572:THR:HG22	2.15	0.46
10:4:578:LEU:HB3	10:4:630:CYS:SG	2.55	0.46
10:4:676:ASN:HA	10:4:677:PRO:HD2	1.82	0.46
10:4:727:LEU:HA	10:4:729:LEU:N	2.30	0.46
11:5:159:ILE:HA	11:5:296:GLY:O	2.15	0.46
11:5:562:GLU:O	11:5:566:ILE:HG13	2.14	0.46
11:5:572:VAL:O	11:5:575:ILE:HB	2.15	0.46
11:5:675:ARG:HG3	11:5:676:HIS:N	2.31	0.46
12:6:614:ARG:HG3	12:6:615:ASP:HA	1.96	0.46
12:6:777:TYR:O	12:6:780:LEU:HB3	2.14	0.46
13:7:435:LEU:CD1	13:7:454:ILE:HB	2.34	0.46
13:7:491:VAL:CA	13:7:494:THR:HG22	2.45	0.46
1:A:46:ASN:O	1:A:49:LYS:HB3	2.15	0.46
1:A:161:VAL:O	1:A:193:GLN:N	2.49	0.46
3:C:33:ASN:N	3:C:34:PRO:HD2	2.31	0.46
3:C:125:SER:O	3:C:128:LEU:HB3	2.16	0.46
4:D:60:PHE:O	4:D:63:LEU:HB3	2.16	0.46
4:D:124:LEU:HB2	4:D:125:PRO:HD3	1.98	0.46
5:E:348:LEU:HB2	5:E:350:LEU:HD23	1.97	0.46
5:E:362:MET:HE3	5:E:396:LEU:HA	1.97	0.46
5:E:569:LEU:HG	5:E:584:LEU:HD11	1.97	0.46
8:2:232:ARG:HA	8:2:283:TYR:OH	2.16	0.46
8:2:359:ILE:CB	8:2:360:ARG:HA	2.44	0.46
8:2:525:LYS:HZ1	11:5:576:HIS:HB3	1.81	0.46
8:2:758:ILE:CG2	8:2:759:PRO:HD2	2.45	0.46
9:3:176:LEU:HD11	9:3:300:SER:HB3	1.96	0.46
9:3:287:LYS:HB2	9:3:288:PRO:HD2	1.96	0.46
9:3:320:LEU:HD11	9:3:322:LEU:CD2	2.46	0.46
10:4:344:VAL:H	10:4:390:SER:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:540:ILE:HD11	10:4:577:ILE:HG21	1.98	0.46
10:4:566:LEU:CD1	10:4:574:LYS:HD3	2.46	0.46
11:5:32:LYS:O	11:5:35:ILE:HB	2.15	0.46
11:5:473:ASP:HA	11:5:517:THR:HG23	1.96	0.46
12:6:288:LEU:HD12	12:6:289:SER:N	2.31	0.46
12:6:516:LEU:HD21	12:6:754:TYR:HA	1.97	0.46
13:7:251:VAL:CG2	13:7:340:VAL:HG21	2.35	0.46
13:7:335:VAL:HG13	13:7:339:LEU:CD2	2.45	0.46
13:7:410:VAL:O	13:7:414:LEU:HB2	2.15	0.46
1:A:43:GLU:O	1:A:47:LEU:N	2.43	0.46
1:A:114:THR:O	1:A:115:PHE:HB2	2.15	0.46
3:C:19:LYS:CE	3:C:73:GLU:HG2	2.45	0.46
3:C:174:LYS:HG2	3:C:178:LYS:NZ	2.30	0.46
3:C:183:SER:O	3:C:187:THR:OG1	2.23	0.46
4:D:154:PHE:HB2	4:D:158:LEU:HD11	1.97	0.46
4:D:220:ASP:CB	4:D:221:GLU:HA	2.44	0.46
4:D:232:VAL:CA	4:D:291:VAL:HG23	2.44	0.46
5:E:30:PHE:HD1	5:E:61:ILE:HD11	1.80	0.46
5:E:436:ASN:ND2	5:E:472:ARG:HD2	2.23	0.46
5:E:537:ASP:HA	5:E:540:ARG:CG	2.39	0.46
5:E:569:LEU:CD1	5:E:584:LEU:HD11	2.45	0.46
8:2:333:GLN:HB3	8:2:383:ARG:CG	2.45	0.46
8:2:343:LYS:H	8:2:371:GLY:HA2	1.79	0.46
8:2:387:ARG:HD2	8:2:407:GLU:OE2	2.15	0.46
8:2:522:GLY:HA3	8:2:818:GLU:CD	2.35	0.46
8:2:780:GLN:OE1	11:5:573:ILE:HG22	2.16	0.46
9:3:363:LEU:O	9:3:367:LEU:HG	2.16	0.46
9:3:409:GLY:HA2	9:3:524:ASP:OD2	2.16	0.46
9:3:490:MET:HE1	9:3:542:ARG:HB3	1.96	0.46
9:3:493:GLN:CG	9:3:509:ARG:HA	2.44	0.46
10:4:774:TYR:HB2	10:4:801:MET:HE1	1.97	0.46
11:5:35:ILE:O	11:5:36:LEU:HD23	2.16	0.46
11:5:482:PHE:CE1	11:5:485:MET:HE2	2.51	0.46
11:5:577:THR:HA	11:5:579:ASN:H	1.81	0.46
12:6:576:ASP:HA	12:6:687:GLY:O	2.15	0.46
12:6:639:ASP:HA	12:6:681:ALA:O	2.16	0.46
13:7:138:VAL:HA	13:7:141:VAL:CG2	2.45	0.46
13:7:383:GLN:HB2	13:7:386:LYS:HZ3	1.81	0.46
13:7:581:LEU:HD23	13:7:581:LEU:C	2.36	0.46
1:A:52:GLU:HA	1:A:55:LYS:CB	2.42	0.46
1:A:100:MET:HG2	1:A:117:GLN:HE21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:176:LEU:C	2:B:176:LEU:HD23	2.36	0.46
3:C:26:GLY:N	3:C:36:ARG:HG3	2.28	0.46
3:C:96:ASP:O	3:C:99:SER:OG	2.30	0.46
4:D:260:ILE:CG1	4:D:266:GLU:HG3	2.46	0.46
5:E:389:GLY:O	5:E:392:PHE:HB2	2.16	0.46
8:2:302:THR:HG1	8:2:319:ARG:HB3	1.81	0.46
8:2:526:ASN:OD1	8:2:527:VAL:N	2.49	0.46
8:2:546:GLY:HA2	12:6:798:ARG:HH22	1.80	0.46
9:3:132:LEU:O	9:3:136:MET:N	2.40	0.46
9:3:682:ASN:HD21	9:3:730:ALA:HB1	1.80	0.46
10:4:191:THR:O	10:4:195:ARG:HG3	2.15	0.46
10:4:243:LEU:CG	10:4:244:ASP:N	2.78	0.46
10:4:545:PHE:CE1	10:4:751:ILE:HA	2.51	0.46
10:4:566:LEU:HD12	10:4:566:LEU:O	2.16	0.46
10:4:605:ILE:O	10:4:605:ILE:HG23	2.15	0.46
10:4:819:LEU:HD23	10:4:819:LEU:C	2.36	0.46
11:5:59:TYR:HD1	11:5:135:PHE:CE1	2.33	0.46
11:5:320:GLY:N	11:5:323:ILE:HB	2.19	0.46
11:5:477:VAL:HG21	11:5:519:VAL:HG22	1.97	0.46
12:6:400:VAL:HG23	12:6:455:LEU:HB3	1.98	0.46
12:6:547:ILE:HG21	12:6:588:VAL:HG21	1.97	0.46
12:6:795:ILE:HG22	12:6:796:THR:N	2.31	0.46
12:6:795:ILE:HG22	12:6:799:GLN:CG	2.36	0.46
13:7:157:ARG:HH22	13:7:267:TYR:HE1	1.62	0.46
13:7:209:GLN:O	13:7:212:ALA:N	2.49	0.46
13:7:235:LEU:HA	13:7:355:PHE:HD2	1.80	0.46
13:7:456:VAL:O	13:7:564:LEU:HA	2.16	0.46
13:7:493:LEU:O	13:7:514:VAL:HG23	2.15	0.46
13:7:661:VAL:O	13:7:664:TYR:HB3	2.16	0.46
1:A:5:LEU:CG	1:A:36:ILE:HD11	2.46	0.46
1:A:29:LEU:HD22	1:A:97:LEU:HD21	1.98	0.46
1:A:184:ILE:CD1	5:E:73:GLN:HE22	2.27	0.46
2:B:26:LYS:HG2	2:B:70:GLU:N	2.31	0.46
2:B:29:PRO:O	2:B:65:ALA:HA	2.15	0.46
2:B:79:LEU:HD22	2:B:84:LYS:HD3	1.98	0.46
2:B:167:HIS:CE1	4:D:275:TYR:HB3	2.51	0.46
3:C:12:ASP:O	3:C:48:LEU:N	2.49	0.46
3:C:19:LYS:CG	3:C:73:GLU:HB3	2.45	0.46
4:D:80:PRO:HG2	4:D:84:MET:CE	2.46	0.46
4:D:127:LEU:O	4:D:127:LEU:HD23	2.14	0.46
5:E:81:LEU:N	5:E:119:ASP:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:18:DT:H2'	6:F:19:DT:C4	2.50	0.46
8:2:444:PHE:O	8:2:446:VAL:HG23	2.16	0.46
8:2:477:THR:HG22	8:2:478:GLU:H	1.80	0.46
8:2:502:ALA:HB1	8:2:505:ILE:CD1	2.46	0.46
8:2:537:ILE:HD12	8:2:537:ILE:N	2.31	0.46
8:2:579:SER:HB2	12:6:666:ALA:HB1	1.97	0.46
9:3:33:ASP:CA	9:3:39:ARG:HH11	2.28	0.46
9:3:389:VAL:CG2	9:3:669:PRO:HD2	2.44	0.46
9:3:731:ASN:O	9:3:734:ARG:HB2	2.15	0.46
10:4:315:ARG:NH2	13:7:251:VAL:H	2.07	0.46
10:4:416:SER:OG	10:4:460:TYR:HA	2.15	0.46
10:4:621:LEU:O	10:4:624:SER:HB2	2.15	0.46
10:4:714:GLU:HB3	10:4:715:LYS:HB3	1.96	0.46
11:5:38:PHE:CE2	11:5:45:ILE:HG12	2.51	0.46
11:5:98:ALA:O	11:5:102:SER:N	2.48	0.46
11:5:181:ILE:HG23	11:5:242:ILE:O	2.16	0.46
11:5:331:LEU:HA	11:5:332:GLY:HA2	1.46	0.46
11:5:440:SER:HA	11:5:480:ASP:CB	2.35	0.46
12:6:288:LEU:CG	12:6:290:ILE:HD11	2.45	0.46
12:6:370:THR:HA	12:6:371:GLY:HA2	1.72	0.46
12:6:563:ILE:HD12	12:6:563:ILE:N	2.29	0.46
12:6:601:LYS:CG	12:6:643:LYS:HB3	2.45	0.46
12:6:625:ALA:CB	12:6:626:GLY:CA	2.87	0.46
12:6:736:MET:CE	12:6:736:MET:HA	2.45	0.46
12:6:764:ILE:C	12:6:818:GLU:HA	2.36	0.46
13:7:112:HIS:NE2	13:7:116:LEU:HD13	2.31	0.46
13:7:520:ILE:HD12	13:7:520:ILE:N	2.30	0.46
13:7:522:CYS:C	13:7:523:ILE:HG13	2.35	0.46
1:A:130:TYR:CG	4:D:193:LEU:HD22	2.51	0.46
1:A:149:ILE:HG12	4:D:141:ARG:HE	1.79	0.46
2:B:31:ILE:HD11	2:B:63:MET:HB2	1.98	0.46
2:B:56:ASP:O	4:D:57:GLN:NE2	2.46	0.46
2:B:181:LEU:C	2:B:181:LEU:HD12	2.37	0.46
3:C:27:LEU:HD22	3:C:33:ASN:HA	1.98	0.46
3:C:137:HIS:HA	11:5:55:LEU:CD1	2.27	0.46
4:D:88:LEU:O	4:D:88:LEU:HD23	2.16	0.46
4:D:168:LEU:HD11	4:D:171:LEU:CD1	2.46	0.46
4:D:198:ILE:HG13	4:D:199:LEU:N	2.30	0.46
4:D:285:LEU:O	4:D:289:ASP:N	2.49	0.46
5:E:372:THR:O	5:E:375:GLU:HB3	2.16	0.46
5:E:632:ILE:HD12	5:E:633:ARG:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:328:THR:HG22	8:2:387:ARG:O	2.15	0.46
8:2:334:LEU:HD11	11:5:323:ILE:HA	1.98	0.46
8:2:477:THR:HG22	8:2:478:GLU:N	2.31	0.46
8:2:509:ARG:O	8:2:513:THR:OG1	2.33	0.46
8:2:624:MET:HE1	8:2:676:ARG:HB2	1.98	0.46
9:3:32:LEU:HD22	9:3:38:TYR:CB	2.46	0.46
9:3:459:ALA:N	13:7:327:ILE:HD11	2.29	0.46
10:4:519:TYR:OH	10:4:538:LYS:HD3	2.16	0.46
10:4:607:ARG:HB2	10:4:614:LEU:CD2	2.38	0.46
10:4:761:ILE:HD11	12:6:737:LYS:HD2	1.97	0.46
11:5:194:ILE:HD12	11:5:197:PHE:CE2	2.51	0.46
11:5:389:VAL:HA	11:5:392:LEU:HD12	1.97	0.46
12:6:357:GLN:CG	12:6:386:VAL:HG23	2.37	0.46
12:6:791:SER:OG	12:6:835:ILE:O	2.33	0.46
12:6:814:ASN:O	12:6:815:CYS:HB3	2.15	0.46
13:7:225:LEU:HB3	13:7:229:GLN:HB2	1.97	0.46
13:7:696:SER:HA	13:7:699:LEU:HB2	1.98	0.46
2:B:171:ASP:O	4:D:274:ILE:HG12	2.16	0.45
4:D:133:LEU:HD22	4:D:134:GLU:HG3	1.97	0.45
4:D:175:LEU:HB3	4:D:180:ILE:HG23	1.97	0.45
4:D:180:ILE:O	4:D:183:HIS:HB3	2.15	0.45
5:E:13:ASN:HD22	5:E:16:LEU:HD11	1.80	0.45
5:E:27:LEU:C	5:E:27:LEU:HD22	2.37	0.45
5:E:67:LEU:HD11	5:E:83:LEU:HD12	1.97	0.45
5:E:249:ASN:OD1	5:E:287:VAL:HB	2.16	0.45
5:E:318:LEU:C	5:E:318:LEU:HD12	2.37	0.45
8:2:208:ALA:O	8:2:212:LYS:HG2	2.16	0.45
8:2:541:LEU:HD23	8:2:541:LEU:C	2.36	0.45
8:2:607:ASP:HA	8:2:649:ALA:O	2.17	0.45
8:2:641:GLN:NE2	11:5:262:PRO:HB2	2.31	0.45
9:3:103:LEU:HD13	9:3:114:ILE:HD12	1.97	0.45
9:3:172:THR:HG22	9:3:176:LEU:CA	2.46	0.45
9:3:486:ILE:HA	9:3:489:VAL:CG2	2.46	0.45
10:4:248:LEU:HD13	10:4:258:TYR:HA	1.98	0.45
10:4:257:LEU:HD21	10:4:272:MET:HE2	1.98	0.45
10:4:308:VAL:HG11	10:4:325:LEU:HD13	1.98	0.45
10:4:315:ARG:HE	10:4:410:GLN:NE2	2.14	0.45
11:5:169:THR:HG21	11:5:256:LEU:HG	1.97	0.45
11:5:643:ARG:NH1	11:5:692:ALA:HA	2.30	0.45
12:6:713:PHE:O	12:6:715:ILE:HD12	2.16	0.45
12:6:732:VAL:O	12:6:736:MET:HE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:800:LEU:HA	12:6:803:MET:HB3	1.98	0.45
13:7:245:ILE:CD1	13:7:343:LEU:HB3	2.43	0.45
13:7:452:GLY:H	13:7:694:ARG:CD	2.28	0.45
13:7:514:VAL:HG22	13:7:557:LEU:HD11	1.97	0.45
13:7:587:PRO:HD2	13:7:590:LEU:HD13	1.97	0.45
13:7:599:LEU:HD12	13:7:599:LEU:O	2.16	0.45
1:A:83:LYS:CG	1:A:87:LEU:HD21	2.47	0.45
2:B:167:HIS:CD2	4:D:267:VAL:HG11	2.52	0.45
2:B:196:HIS:O	2:B:199:SER:HB3	2.16	0.45
4:D:177:LYS:HA	4:D:180:ILE:HG12	1.97	0.45
5:E:616:THR:OG1	5:E:643:LYS:NZ	2.49	0.45
8:2:339:PHE:CG	8:2:373:PHE:HB3	2.52	0.45
8:2:409:ILE:HB	8:2:452:GLU:CG	2.45	0.45
8:2:432:ASN:O	8:2:447:PHE:HB3	2.16	0.45
8:2:769:TYR:CZ	8:2:773:LYS:HE2	2.51	0.45
8:2:849:GLN:HB2	8:2:853:VAL:CG2	2.46	0.45
9:3:192:VAL:HG21	9:3:283:VAL:CG1	2.46	0.45
9:3:437:SER:CB	9:3:438:SER:CA	2.80	0.45
9:3:553:ILE:HB	11:5:630:ARG:HH11	1.81	0.45
10:4:601:LEU:CB	10:4:621:LEU:HG	2.46	0.45
10:4:872:VAL:HG11	10:4:881:MET:HB3	1.98	0.45
11:5:161:ARG:N	11:5:295:VAL:HG13	2.31	0.45
11:5:482:PHE:CA	11:5:523:ALA:HB2	2.46	0.45
11:5:498:GLU:OE2	11:5:549:ARG:HB3	2.15	0.45
11:5:570:ASN:HA	11:5:573:ILE:HD13	1.98	0.45
11:5:625:ASN:HD21	11:5:681:ILE:HG23	1.80	0.45
11:5:685:GLN:O	11:5:688:THR:OG1	2.34	0.45
12:6:134:LYS:NZ	12:6:137:ARG:HD2	2.31	0.45
12:6:294:VAL:CB	12:6:391:PRO:HA	2.45	0.45
13:7:451:ARG:HA	13:7:452:GLY:HA3	1.60	0.45
1:A:29:LEU:N	1:A:119:ASP:OD2	2.48	0.45
1:A:130:TYR:CE1	4:D:193:LEU:HB2	2.52	0.45
1:A:165:VAL:O	1:A:188:GLN:HA	2.17	0.45
2:B:4:PRO:HB2	2:B:8:GLN:CB	2.46	0.45
2:B:185:ILE:HD12	2:B:185:ILE:N	2.30	0.45
3:C:101:ASN:N	3:C:102:SER:HA	2.20	0.45
3:C:133:GLN:O	3:C:136:ASN:HB3	2.15	0.45
4:D:212:THR:H	4:D:213:GLU:HA	1.76	0.45
5:E:32:SER:HA	5:E:33:CYS:HA	1.39	0.45
5:E:66:GLU:OE2	5:E:70:HIS:NE2	2.49	0.45
5:E:266:ASN:HB2	5:E:269:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:287:VAL:HA	5:E:290:ARG:NH1	2.31	0.45
5:E:297:ASP:HA	5:E:300:LYS:HE2	1.98	0.45
5:E:520:LYS:N	5:E:520:LYS:HD2	2.32	0.45
5:E:548:LEU:HG	5:E:552:LEU:HD13	1.97	0.45
8:2:518:SER:HB2	8:2:537:ILE:HB	1.97	0.45
8:2:667:VAL:CG2	8:2:669:LEU:HB2	2.47	0.45
9:3:172:THR:HG22	9:3:176:LEU:HB2	1.98	0.45
9:3:287:LYS:HB3	13:7:326:HIS:NE2	2.32	0.45
9:3:418:LEU:O	9:3:422:VAL:HG23	2.17	0.45
9:3:470:VAL:HB	9:3:512:VAL:CG2	2.44	0.45
9:3:470:VAL:CB	9:3:512:VAL:HG13	2.47	0.45
9:3:477:LYS:CB	11:5:491:VAL:HG11	2.46	0.45
10:4:284:ILE:HG21	10:4:297:GLU:OE2	2.16	0.45
10:4:331:LEU:HB2	10:4:430:GLY:C	2.36	0.45
10:4:343:LYS:HB2	10:4:390:SER:CB	2.44	0.45
10:4:501:ILE:HG21	10:4:749:MET:CE	2.44	0.45
11:5:86:ILE:HG22	11:5:90:PHE:CZ	2.51	0.45
11:5:144:ASN:H	11:5:161:ARG:HH11	1.64	0.45
11:5:205:VAL:HG12	11:5:206:SER:N	2.31	0.45
12:6:405:PRO:CA	12:6:450:TYR:HD1	2.30	0.45
12:6:533:ILE:HD13	12:6:544:LYS:HB3	1.97	0.45
12:6:770:ARG:O	12:6:773:LEU:HB3	2.16	0.45
12:6:820:THR:HB	12:6:821:PRO:HD2	1.97	0.45
13:7:21:ILE:HG23	13:7:117:PHE:CD1	2.51	0.45
13:7:28:PHE:N	13:7:61:PRO:HB3	2.30	0.45
13:7:209:GLN:H	13:7:212:ALA:CB	2.29	0.45
13:7:643:ALA:HA	13:7:646:LYS:HD3	1.98	0.45
13:7:648:LYS:HE2	13:7:704:LEU:CB	2.39	0.45
1:A:30:PRO:O	1:A:31:MET:HB2	2.17	0.45
2:B:11:PHE:HE1	4:D:71:ARG:HB2	1.81	0.45
4:D:93:MET:HA	4:D:93:MET:HE2	1.98	0.45
4:D:202:MET:HG2	4:D:207:GLN:HG2	1.98	0.45
4:D:231:HIS:HB3	4:D:292:ALA:HB3	1.98	0.45
5:E:44:MET:HG3	5:E:45:LEU:N	2.31	0.45
5:E:131:LEU:CD1	5:E:237:LEU:HD11	2.46	0.45
5:E:258:LEU:O	5:E:261:ALA:HB3	2.16	0.45
5:E:308:ASN:HA	5:E:309:SER:CB	2.23	0.45
5:E:527:LEU:HG	5:E:568:VAL:HG11	1.97	0.45
8:2:211:LEU:HD12	8:2:212:LYS:N	2.31	0.45
8:2:338:LYS:HB3	8:2:380:THR:CG2	2.45	0.45
8:2:384:ASN:N	8:2:384:ASN:OD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:684:ARG:CB	8:2:685:ASP:CA	2.86	0.45
9:3:179:LEU:HD21	9:3:295:VAL:HG12	1.99	0.45
9:3:439:GLY:CA	9:3:442:LEU:HD22	2.45	0.45
9:3:528:ASP:O	9:3:532:ASN:HB2	2.17	0.45
10:4:197:PHE:CE1	10:4:248:LEU:HD23	2.52	0.45
10:4:343:LYS:CE	10:4:392:ALA:HB3	2.46	0.45
10:4:534:GLU:OE1	10:4:534:GLU:N	2.35	0.45
10:4:557:ARG:HH11	10:4:668:ARG:NE	2.14	0.45
10:4:799:GLU:OE2	10:4:803:ARG:HD2	2.16	0.45
11:5:38:PHE:HZ	11:5:40:LEU:HD23	1.82	0.45
13:7:349:VAL:HG13	13:7:351:VAL:HG23	1.98	0.45
13:7:401:VAL:HG12	13:7:405:ILE:HG13	1.98	0.45
13:7:458:LEU:CD1	13:7:600:MET:HE1	2.34	0.45
13:7:459:MET:O	13:7:599:LEU:HA	2.16	0.45
13:7:548:ILE:HG23	13:7:550:LYS:NZ	2.31	0.45
13:7:694:ARG:O	13:7:698:ALA:N	2.49	0.45
1:A:100:MET:HE1	1:A:117:GLN:H	1.82	0.45
3:C:166:LEU:HA	3:C:169:LEU:HD13	1.98	0.45
4:D:56:PRO:O	4:D:59:ASP:HB2	2.17	0.45
5:E:36:ILE:HA	5:E:39:LEU:CD1	2.47	0.45
5:E:93:GLU:O	5:E:97:GLU:HB3	2.17	0.45
5:E:256:TYR:HB2	5:E:273:ASN:HD21	1.81	0.45
5:E:361:LYS:O	5:E:365:ARG:HG2	2.16	0.45
5:E:492:LEU:HG	5:E:496:ILE:HG13	1.97	0.45
5:E:640:PHE:O	5:E:644:LEU:N	2.50	0.45
6:F:24:DT:C6	6:F:25:DT:H73	2.51	0.45
8:2:325:THR:HG22	8:2:326:ARG:N	2.26	0.45
8:2:662:PRO:O	8:2:665:GLN:N	2.43	0.45
8:2:803:PHE:H	8:2:804:PRO:HA	1.80	0.45
9:3:241:LEU:HD23	9:3:241:LEU:N	2.32	0.45
9:3:392:ASN:CG	9:3:398:HIS:HB3	2.37	0.45
9:3:404:ASN:HD22	9:3:490:MET:CE	2.29	0.45
9:3:420:ARG:HA	9:3:423:LEU:HB3	1.98	0.45
9:3:445:ALA:HA	9:3:457:LEU:HD23	1.95	0.45
10:4:532:GLU:HG2	10:4:533:LEU:N	2.29	0.45
10:4:826:VAL:HA	10:4:829:ILE:HD12	1.99	0.45
12:6:359:VAL:CG2	12:6:379:VAL:HG13	2.41	0.45
12:6:405:PRO:HA	12:6:449:THR:O	2.17	0.45
12:6:407:VAL:O	12:6:407:VAL:HG12	2.16	0.45
12:6:684:PRO:HB2	12:6:687:GLY:N	2.31	0.45
12:6:690:ASN:HB3	12:6:693:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:695:LEU:O	12:6:695:LEU:HD23	2.16	0.45
12:6:702:THR:CG2	12:6:705:ILE:HG12	2.45	0.45
1:A:98:ASP:O	1:A:101:ALA:HB3	2.17	0.45
2:B:59:ALA:HA	2:B:60:LEU:HA	1.76	0.45
2:B:64:VAL:HB	2:B:67:ARG:HD2	1.99	0.45
2:B:115:LEU:HD21	2:B:152:ARG:CZ	2.46	0.45
4:D:127:LEU:HD23	4:D:131:THR:HG1	1.80	0.45
5:E:83:LEU:HD23	5:E:84:VAL:N	2.31	0.45
5:E:96:LEU:O	5:E:97:GLU:HG2	2.15	0.45
5:E:516:LYS:HB3	5:E:518:LEU:HD21	1.99	0.45
5:E:535:ASP:OD1	11:5:583:MET:HE2	2.17	0.45
5:E:637:LEU:O	5:E:640:PHE:HB3	2.16	0.45
8:2:585:ILE:CD1	11:5:457:PRO:HA	2.42	0.45
8:2:611:LYS:HG3	12:6:650:VAL:HG22	1.99	0.45
9:3:201:HIS:HB2	9:3:210:HIS:CG	2.51	0.45
9:3:306:MET:HG2	11:5:205:VAL:O	2.16	0.45
9:3:472:ILE:HB	9:3:514:ALA:HB2	1.96	0.45
9:3:685:ASP:HA	9:3:688:ASN:HD22	1.81	0.45
10:4:241:LEU:CD2	10:4:243:LEU:H	2.23	0.45
10:4:257:LEU:HD21	10:4:272:MET:CE	2.47	0.45
10:4:722:LYS:CA	10:4:725:THR:HB	2.47	0.45
10:4:919:LEU:HD22	10:4:925:ARG:HB2	1.99	0.45
11:5:264:LEU:HA	11:5:265:VAL:HA	1.69	0.45
11:5:385:LYS:HA	11:5:388:ILE:CD1	2.47	0.45
11:5:409:ASP:HB3	11:5:518:SER:HB2	1.99	0.45
11:5:562:GLU:H	11:5:562:GLU:CD	2.20	0.45
11:5:652:GLN:O	11:5:656:ILE:HG13	2.16	0.45
12:6:732:VAL:O	12:6:736:MET:N	2.49	0.45
13:7:342:SER:O	13:7:383:GLN:NE2	2.50	0.45
13:7:438:GLY:O	13:7:701:LYS:NZ	2.30	0.45
13:7:662:GLN:O	13:7:666:ARG:HG3	2.17	0.45
1:A:37:ILE:O	1:A:40:ILE:HB	2.17	0.45
4:D:154:PHE:CE1	4:D:221:GLU:HB2	2.40	0.45
4:D:181:LYS:O	4:D:185:THR:HG23	2.17	0.45
4:D:216:VAL:H	4:D:217:ASN:CB	2.29	0.45
5:E:71:TYR:CD2	5:E:96:LEU:HD13	2.51	0.45
5:E:381:ASP:O	5:E:385:LYS:N	2.50	0.45
5:E:426:GLU:HA	5:E:429:THR:HG23	1.99	0.45
5:E:559:SER:CA	5:E:560:GLU:HB3	2.35	0.45
6:F:21:DT:H3'	11:5:506:LYS:CE	2.46	0.45
8:2:341:CYS:HA	8:2:374:ARG:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:364:CYS:H	8:2:368:LYS:HA	1.81	0.45
8:2:505:ILE:HD13	8:2:552:ILE:HG13	1.98	0.45
8:2:702:SER:O	12:6:559:THR:HG21	2.16	0.45
8:2:853:VAL:HA	8:2:856:GLN:HB3	1.99	0.45
9:3:535:LEU:HD13	9:3:539:LEU:HD13	1.98	0.45
9:3:564:HIS:O	9:3:568:THR:OG1	2.22	0.45
9:3:676:ILE:HA	9:3:679:ILE:CD1	2.46	0.45
10:4:204:LYS:CG	10:4:251:TYR:HD1	2.28	0.45
10:4:322:ILE:HD11	13:7:307:PHE:CD2	2.52	0.45
10:4:605:ILE:HG13	10:4:616:LEU:HD12	1.98	0.45
10:4:721:ALA:HA	10:4:724:LEU:HD12	1.98	0.45
10:4:856:VAL:HG23	10:4:857:ILE:N	2.32	0.45
11:5:92:THR:O	11:5:95:THR:HG22	2.16	0.45
11:5:94:ILE:HG22	11:5:135:PHE:CD2	2.51	0.45
11:5:449:LEU:HD21	11:5:493:ILE:CD1	2.31	0.45
11:5:455:ARG:HG2	11:5:462:PHE:CE1	2.52	0.45
11:5:595:SER:C	11:5:596:ILE:HD12	2.37	0.45
12:6:111:VAL:CA	12:6:114:ALA:HB3	2.43	0.45
12:6:185:LEU:O	12:6:188:VAL:HB	2.16	0.45
12:6:267:PHE:HD2	12:6:287:LEU:CD1	2.30	0.45
12:6:297:THR:CB	12:6:359:VAL:HG12	2.47	0.45
12:6:805:ARG:HA	12:6:808:GLU:CG	2.46	0.45
13:7:246:THR:HG22	13:7:247:ARG:N	2.32	0.45
13:7:397:VAL:HG22	13:7:400:ARG:HH21	1.80	0.45
1:A:55:LYS:O	1:A:58:GLN:HG2	2.17	0.45
1:A:151:LEU:CD1	1:A:151:LEU:H	2.29	0.45
3:C:25:PRO:HA	3:C:37:PRO:HB3	1.99	0.45
4:D:182:TYR:HA	4:D:185:THR:OG1	2.17	0.45
5:E:34:LEU:HD11	5:E:543:LEU:CG	2.45	0.45
5:E:122:VAL:O	5:E:143:PHE:CB	2.65	0.45
5:E:380:MET:CE	5:E:384:ILE:HG22	2.46	0.45
8:2:294:HIS:O	8:2:296:ARG:NH1	2.50	0.45
8:2:309:LEU:O	8:2:310:ARG:HD3	2.16	0.45
8:2:497:ILE:HD13	8:2:823:MET:CE	2.47	0.45
8:2:549:LYS:HG3	8:2:550:SER:H	1.81	0.45
8:2:614:ASP:HA	8:2:617:ARG:HH11	1.81	0.45
8:2:633:LYS:HA	8:2:634:ALA:HA	1.58	0.45
8:2:756:SER:HB2	8:2:757:PRO:CD	2.47	0.45
9:3:38:TYR:CE2	9:3:98:ILE:HG23	2.51	0.45
9:3:179:LEU:HA	9:3:297:VAL:CA	2.44	0.45
9:3:199:SER:HA	9:3:248:SER:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:257:THR:HG22	9:3:275:ASP:HB3	1.98	0.45
9:3:314:LEU:HD23	11:5:201:THR:CG2	2.44	0.45
9:3:367:LEU:CD1	9:3:382:LEU:HD13	2.46	0.45
10:4:373:ARG:HA	10:4:374:ILE:HA	1.78	0.45
10:4:568:GLY:N	10:4:574:LYS:HZ3	2.15	0.45
10:4:761:ILE:HG12	12:6:737:LYS:HD2	1.97	0.45
11:5:61:LEU:HD23	11:5:62:THR:N	2.32	0.45
11:5:494:HIS:CE1	11:5:546:ILE:HG13	2.48	0.45
12:6:134:LYS:N	12:6:135:VAL:CA	2.71	0.45
12:6:326:LYS:N	12:6:327:TYR:HA	2.28	0.45
12:6:629:MET:O	12:6:632:ASP:N	2.50	0.45
12:6:689:TYR:HB3	12:6:691:ARG:N	2.32	0.45
13:7:118:CYS:HB2	13:7:202:LEU:HD13	1.99	0.45
13:7:435:LEU:HD12	13:7:435:LEU:O	2.17	0.45
13:7:650:PRO:CB	13:7:706:ASP:HA	2.46	0.45
1:A:151:LEU:C	1:A:151:LEU:HD22	2.38	0.45
3:C:22:TYR:OH	3:C:69:VAL:HB	2.16	0.45
3:C:25:PRO:HA	3:C:37:PRO:HA	1.99	0.45
3:C:47:PRO:HG2	3:C:50:LEU:HD21	1.98	0.45
3:C:91:ASP:HB3	3:C:94:ALA:HB3	1.99	0.45
4:D:85:LYS:O	4:D:89:ASN:N	2.46	0.45
4:D:248:GLU:N	4:D:250:GLU:OE1	2.49	0.45
5:E:120:ILE:HD13	5:E:139:ILE:HG21	1.99	0.45
5:E:163:LEU:HA	5:E:164:GLU:HA	1.64	0.45
5:E:318:LEU:HB3	5:E:411:ARG:HA	1.98	0.45
5:E:399:TYR:HB2	5:E:401:LEU:HG	1.98	0.45
5:E:420:SER:HB2	5:E:423:GLU:HG2	1.98	0.45
5:E:608:ALA:HA	5:E:611:GLN:HG2	1.99	0.45
8:2:334:LEU:HD12	8:2:334:LEU:N	2.32	0.45
8:2:340:ASN:HD21	8:2:374:ARG:HH21	1.64	0.45
8:2:496:LYS:HG2	8:2:758:ILE:CD1	2.47	0.45
9:3:353:LEU:HD23	9:3:359:ILE:HD12	1.98	0.45
10:4:243:LEU:HD21	10:4:245:ALA:CB	2.42	0.45
10:4:419:VAL:HG21	10:4:424:VAL:HA	1.98	0.45
10:4:696:PRO:CD	10:4:697:PRO:HD2	2.47	0.45
10:4:830:ARG:CA	10:4:833:ILE:HD12	2.43	0.45
11:5:178:TYR:HA	11:5:193:THR:HG22	1.99	0.45
11:5:502:ILE:HG22	11:5:504:ILE:CD1	2.47	0.45
11:5:635:ILE:HA	11:5:638:LEU:CG	2.41	0.45
11:5:677:VAL:O	11:5:681:ILE:HD12	2.17	0.45
12:6:137:ARG:HA	12:6:140:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:359:VAL:CG1	12:6:381:LEU:HD11	2.47	0.45
12:6:551:MET:CE	12:6:755:ILE:HD13	2.47	0.45
12:6:819:ILE:CG2	12:6:820:THR:N	2.76	0.45
13:7:248:VAL:HG11	13:7:345:PRO:CD	2.41	0.45
13:7:360:TYR:CE2	13:7:363:PHE:HB2	2.52	0.45
13:7:441:ASP:CA	13:7:452:GLY:HA2	2.46	0.45
13:7:546:ILE:CD1	13:7:559:ALA:HB2	2.46	0.45
13:7:692:ILE:CA	13:7:695:LEU:HG	2.46	0.45
1:A:83:LYS:NZ	4:D:199:LEU:HD23	2.32	0.45
1:A:100:MET:HG2	1:A:117:GLN:HG2	1.98	0.45
2:B:112:PHE:CE1	2:B:155:LYS:HD2	2.52	0.45
3:C:97:LEU:HD13	3:C:105:PHE:CE2	2.50	0.45
4:D:141:ARG:CA	4:D:144:ILE:HG12	2.45	0.45
5:E:21:SER:OG	5:E:25:CYS:O	2.24	0.45
5:E:240:TYR:O	5:E:241:TYR:HB3	2.17	0.45
5:E:292:TYR:O	5:E:296:GLN:HG3	2.16	0.45
5:E:558:GLU:N	5:E:559:SER:CA	2.80	0.45
8:2:242:LEU:HD23	8:2:243:GLU:N	2.31	0.45
8:2:292:GLU:C	8:2:293:ILE:HD12	2.37	0.45
8:2:342:LEU:HD22	8:2:370:LYS:O	2.16	0.45
8:2:543:GLY:H	8:2:652:PRO:HD3	1.81	0.45
8:2:756:SER:HB2	8:2:757:PRO:HD3	1.98	0.45
9:3:152:PRO:HB2	9:3:154:LYS:HG2	1.98	0.45
9:3:320:LEU:HD11	9:3:322:LEU:HD21	1.99	0.45
9:3:661:GLN:HA	9:3:664:LYS:CD	2.43	0.45
10:4:201:PHE:H	10:4:224:LEU:HB3	1.81	0.45
10:4:351:VAL:HG12	10:4:352:CYS:CA	2.43	0.45
10:4:605:ILE:HD13	10:4:659:ALA:CB	2.47	0.45
11:5:378:ILE:HA	14:5:801:ATP:H2	1.82	0.45
11:5:409:ASP:HB3	11:5:518:SER:HB3	1.99	0.45
11:5:488:GLU:HG2	11:5:489:ASP:H	1.80	0.45
11:5:504:ILE:HD12	11:5:504:ILE:N	2.32	0.45
12:6:111:VAL:HG13	12:6:166:LEU:CG	2.46	0.45
12:6:695:LEU:HD13	12:6:838:VAL:CG2	2.33	0.45
12:6:802:SER:O	12:6:805:ARG:HG2	2.17	0.45
13:7:14:TYR:CA	13:7:17:LEU:HB2	2.37	0.45
13:7:85:ILE:HG22	13:7:89:GLN:CD	2.37	0.45
13:7:469:LEU:O	13:7:473:ILE:HG13	2.16	0.45
2:B:16:ILE:HA	2:B:19:ILE:HD12	1.99	0.44
3:C:135:LEU:HD21	3:C:165:PHE:HE2	1.82	0.44
4:D:169:ILE:HG22	4:D:170:SER:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:272:LEU:HA	5:E:275:LEU:HB2	1.98	0.44
5:E:399:TYR:HB2	5:E:401:LEU:CD1	2.47	0.44
5:E:413:LEU:CD2	5:E:416:ARG:HB2	2.47	0.44
8:2:425:GLU:O	8:2:456:ILE:HA	2.17	0.44
8:2:522:GLY:HA2	8:2:822:LYS:HZ1	1.82	0.44
8:2:600:ASP:OD1	8:2:643:ARG:N	2.34	0.44
9:3:107:ASP:CB	9:3:110:PHE:HB3	2.47	0.44
9:3:420:ARG:O	9:3:423:LEU:HB3	2.17	0.44
9:3:733:LEU:HA	9:3:736:ALA:CB	2.47	0.44
10:4:359:GLU:HG2	10:4:361:ASP:HB2	1.98	0.44
10:4:415:ILE:HG23	10:4:461:VAL:HG23	1.99	0.44
10:4:603:ALA:HB2	10:4:656:ILE:HG12	1.99	0.44
10:4:635:ASP:OD1	10:4:694:LEU:HD13	2.17	0.44
11:5:165:ILE:HD12	11:5:262:PRO:CD	2.47	0.44
11:5:242:ILE:HG22	11:5:243:ILE:N	2.32	0.44
11:5:455:ARG:HH12	11:5:460:ARG:CD	2.28	0.44
11:5:468:ALA:HA	11:5:471:LEU:CD1	2.47	0.44
12:6:355:ASP:CB	12:6:356:TRP:CB	2.95	0.44
12:6:515:GLU:O	12:6:519:MET:HG3	2.17	0.44
12:6:528:LYS:HD3	12:6:531:ARG:CD	2.47	0.44
12:6:550:GLN:OE1	12:6:679:LEU:HB2	2.17	0.44
13:7:213:ARG:HA	13:7:215:TYR:HD1	1.82	0.44
13:7:568:ASN:O	13:7:585:ASN:ND2	2.49	0.44
1:A:97:LEU:CB	1:A:131:LEU:HD12	2.44	0.44
1:A:162:PHE:C	1:A:163:ILE:HD12	2.38	0.44
2:B:117:TRP:H	2:B:119:TRP:HD1	1.65	0.44
2:B:187:GLU:HB2	3:C:179:LYS:HZ2	1.80	0.44
4:D:143:TYR:CE2	4:D:147:ARG:HD2	2.52	0.44
4:D:256:TYR:CD1	4:D:257:THR:CG2	2.97	0.44
5:E:45:LEU:HD11	5:E:49:PHE:CE1	2.52	0.44
5:E:274:ILE:O	5:E:278:THR:OG1	2.28	0.44
5:E:567:MET:C	5:E:584:LEU:HD12	2.37	0.44
6:F:7:DC:H2''	6:F:8:DG:O4'	2.17	0.44
8:2:204:SER:HA	8:2:207:ILE:CG1	2.46	0.44
8:2:300:PHE:HE2	8:2:317:LEU:O	2.00	0.44
8:2:311:GLU:CB	8:2:314:LEU:HD23	2.46	0.44
8:2:333:GLN:NE2	8:2:334:LEU:H	2.15	0.44
8:2:338:LYS:CB	8:2:380:THR:HG22	2.48	0.44
8:2:339:PHE:HA	8:2:374:ARG:O	2.17	0.44
8:2:549:LYS:HA	8:2:552:ILE:CD1	2.46	0.44
8:2:571:ALA:N	12:6:665:LYS:HE3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:171:LEU:HD23	9:3:172:THR:OG1	2.18	0.44
10:4:202:LYS:N	10:4:224:LEU:HB3	2.23	0.44
10:4:552:PHE:HE2	10:4:558:TYR:HH	1.63	0.44
11:5:374:ILE:HA	11:5:428:PHE:CE2	2.52	0.44
11:5:588:GLU:HB3	11:5:593:GLU:HB2	1.98	0.44
12:6:304:LEU:N	12:6:304:LEU:CD1	2.81	0.44
12:6:613:VAL:HB	12:6:622:THR:CB	2.26	0.44
12:6:776:LYS:HA	12:6:779:GLU:OE2	2.17	0.44
13:7:86:LEU:O	13:7:90:ASN:N	2.45	0.44
13:7:315:ILE:HD12	13:7:315:ILE:N	2.32	0.44
13:7:534:ARG:O	13:7:538:HIS:N	2.45	0.44
13:7:544:GLN:OE1	13:7:560:ARG:HG2	2.18	0.44
13:7:642:ILE:HG22	13:7:646:LYS:HD2	1.99	0.44
1:A:21:ALA:N	1:A:23:SER:HB3	2.32	0.44
1:A:75:THR:O	1:A:79:MET:HG2	2.17	0.44
2:B:52:LEU:HB2	4:D:125:PRO:CB	2.46	0.44
2:B:158:LYS:O	2:B:161:LYS:HG2	2.16	0.44
2:B:193:ARG:CB	4:D:227:PHE:HE2	2.30	0.44
3:C:53:ILE:HA	3:C:56:ILE:HG12	1.95	0.44
4:D:133:LEU:HD23	4:D:133:LEU:C	2.38	0.44
5:E:126:HIS:HA	5:E:247:VAL:HA	2.00	0.44
5:E:131:LEU:HD22	5:E:237:LEU:HD11	1.99	0.44
5:E:520:LYS:HB2	5:E:527:LEU:CD2	2.48	0.44
5:E:532:ASP:HB2	8:2:781:MET:HE1	1.98	0.44
6:F:23:DT:OP2	6:F:23:DT:C6	2.70	0.44
8:2:318:VAL:HG12	8:2:320:VAL:HG23	1.99	0.44
8:2:386:GLN:HB3	8:2:410:LEU:HB2	1.99	0.44
8:2:520:PHE:CD1	8:2:767:ILE:HG22	2.52	0.44
8:2:562:ARG:HD2	8:2:602:GLY:CA	2.47	0.44
8:2:641:GLN:HB3	8:2:643:ARG:NH2	2.33	0.44
9:3:32:LEU:CD2	9:3:38:TYR:HB2	2.46	0.44
9:3:195:LYS:CB	13:7:371:LEU:HA	2.47	0.44
9:3:317:PHE:O	9:3:319:THR:HG23	2.17	0.44
9:3:360:PHE:HA	9:3:363:LEU:CD1	2.48	0.44
9:3:470:VAL:HG21	9:3:512:VAL:HG22	1.99	0.44
10:4:342:MET:CE	12:6:448:LEU:HD22	2.47	0.44
10:4:447:ASN:O	10:4:447:ASN:ND2	2.43	0.44
10:4:642:ARG:NH2	10:4:694:LEU:HD11	2.32	0.44
10:4:682:TYR:CA	10:4:691:ASN:HD21	2.31	0.44
10:4:872:VAL:O	10:4:876:GLN:N	2.48	0.44
11:5:38:PHE:HE2	11:5:45:ILE:HG12	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:155:HIS:O	11:5:158:LYS:HB2	2.17	0.44
11:5:662:SER:OG	11:5:663:LEU:N	2.51	0.44
12:6:404:VAL:CG1	12:6:405:PRO:HD2	2.41	0.44
12:6:796:THR:HG21	12:6:798:ARG:HB3	2.00	0.44
13:7:121:ILE:HA	13:7:124:ASN:OD1	2.16	0.44
13:7:411:TYR:CD2	13:7:430:LYS:HE2	2.52	0.44
13:7:493:LEU:CA	13:7:512:ALA:HB3	2.39	0.44
1:A:18:GLN:HA	1:A:21:ALA:HB3	1.99	0.44
1:A:77:LEU:HD21	3:C:53:ILE:HD11	2.00	0.44
1:A:78:CYS:O	1:A:81:ARG:HB3	2.17	0.44
1:A:139:THR:CG2	1:A:142:LYS:HZ3	2.29	0.44
1:A:162:PHE:HE1	1:A:192:ARG:HB3	1.83	0.44
2:B:145:ILE:HD12	2:B:146:GLN:N	2.32	0.44
2:B:169:GLN:HA	4:D:275:TYR:HD1	1.83	0.44
4:D:124:LEU:HD12	4:D:124:LEU:N	2.33	0.44
5:E:57:GLN:CG	5:E:59:VAL:HG23	2.47	0.44
5:E:330:ARG:CZ	5:E:418:SER:HB2	2.46	0.44
6:F:9:DA:H2''	6:F:10:DT:C7	2.47	0.44
8:2:591:LEU:HD23	8:2:591:LEU:C	2.38	0.44
8:2:671:GLU:HA	8:2:674:LEU:HB3	2.00	0.44
9:3:272:ARG:HD3	11:5:171:VAL:HG22	2.00	0.44
9:3:676:ILE:HA	9:3:679:ILE:CG1	2.47	0.44
10:4:202:LYS:CA	10:4:224:LEU:HA	2.48	0.44
10:4:204:LYS:HB3	10:4:250:ALA:O	2.17	0.44
10:4:527:ALA:HB3	10:4:537:LYS:HZ3	1.81	0.44
11:5:65:MET:HA	11:5:68:LEU:CG	2.47	0.44
11:5:155:HIS:C	11:5:298:TYR:HB3	2.38	0.44
11:5:181:ILE:O	11:5:190:THR:OG1	2.25	0.44
11:5:407:ARG:HD2	11:5:498:GLU:HA	1.99	0.44
11:5:464:LEU:CD2	11:5:466:GLY:HA2	2.46	0.44
12:6:298:SER:N	12:6:358:LYS:O	2.50	0.44
13:7:360:TYR:HE2	13:7:364:LYS:H	1.64	0.44
13:7:619:VAL:HG21	13:7:625:GLN:HE21	1.82	0.44
13:7:692:ILE:HA	13:7:695:LEU:CD1	2.47	0.44
2:B:11:PHE:HB2	2:B:179:ASN:HD21	1.83	0.44
3:C:27:LEU:HD13	3:C:33:ASN:O	2.17	0.44
4:D:124:LEU:HB2	4:D:125:PRO:CD	2.46	0.44
4:D:194:VAL:HG23	4:D:198:ILE:HG12	2.00	0.44
5:E:290:ARG:C	5:E:293:PRO:HD2	2.38	0.44
5:E:478:TRP:HA	5:E:481:TRP:HB3	2.00	0.44
5:E:548:LEU:O	5:E:552:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:3:DC:H2''	6:F:4:DG:C5'	2.47	0.44
8:2:227:TYR:OH	8:2:244:VAL:HG13	2.18	0.44
8:2:293:ILE:HG22	8:2:294:HIS:N	2.31	0.44
8:2:340:ASN:HB3	8:2:376:ASN:CB	2.46	0.44
8:2:625:GLU:OE2	11:5:423:SER:HB2	2.16	0.44
9:3:502:ILE:HD12	9:3:502:ILE:H	1.83	0.44
9:3:687:ARG:HB3	13:7:604:PRO:HB3	2.00	0.44
10:4:193:ASN:HD21	10:4:253:GLN:HB3	1.83	0.44
10:4:211:GLU:HG3	10:4:212:ARG:H	1.83	0.44
10:4:275:THR:O	10:4:279:CYS:N	2.40	0.44
10:4:314:MET:SD	10:4:415:ILE:HG12	2.57	0.44
10:4:641:THR:HG22	10:4:642:ARG:N	2.32	0.44
10:4:686:LEU:O	10:4:838:THR:HG21	2.18	0.44
12:6:134:LYS:HZ2	12:6:137:ARG:CD	2.29	0.44
12:6:379:VAL:HG21	12:6:456:ALA:HB2	1.99	0.44
12:6:709:PHE:HB2	12:6:712:PHE:HE1	1.82	0.44
13:7:441:ASP:N	13:7:452:GLY:HA2	2.32	0.44
13:7:479:ARG:CB	13:7:519:GLY:HA3	2.47	0.44
13:7:497:VAL:HG22	13:7:508:LEU:HD11	1.99	0.44
1:A:41:LEU:HD13	4:D:201:TYR:CD2	2.52	0.44
1:A:77:LEU:CD2	3:C:53:ILE:HD11	2.48	0.44
1:A:174:ILE:HD12	1:A:174:ILE:O	2.17	0.44
1:A:192:ARG:O	1:A:196:VAL:HG23	2.18	0.44
2:B:77:LEU:HD23	2:B:77:LEU:O	2.18	0.44
2:B:94:THR:HG21	2:B:96:LYS:NZ	2.33	0.44
2:B:112:PHE:CD1	2:B:155:LYS:HD2	2.53	0.44
2:B:178:ILE:HA	2:B:181:LEU:HG	1.99	0.44
2:B:183:PRO:HG3	3:C:183:SER:HB3	1.99	0.44
2:B:195:ILE:HD13	3:C:125:SER:HB2	2.00	0.44
4:D:232:VAL:HA	4:D:291:VAL:HA	1.99	0.44
4:D:269:LEU:CD1	4:D:275:TYR:HD2	2.22	0.44
5:E:44:MET:CE	5:E:255:ILE:HG22	2.47	0.44
5:E:97:GLU:HA	5:E:98:ILE:C	2.37	0.44
5:E:296:GLN:HA	5:E:409:PHE:CZ	2.53	0.44
5:E:369:PRO:HD3	8:2:289:ILE:HD11	2.00	0.44
5:E:527:LEU:HG	5:E:568:VAL:CG1	2.48	0.44
6:F:20:DT:H2''	6:F:21:DT:C5	2.53	0.44
8:2:490:ASP:HB3	8:2:493:ILE:CG2	2.47	0.44
8:2:573:ALA:HA	8:2:574:VAL:HA	1.28	0.44
8:2:676:ARG:NH2	14:5:801:ATP:O3B	2.50	0.44
9:3:169:ARG:HG3	9:3:272:ARG:HH21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:172:THR:HA	9:3:175:HIS:N	2.32	0.44
9:3:179:LEU:HD23	9:3:179:LEU:C	2.38	0.44
9:3:272:ARG:CD	11:5:171:VAL:HG22	2.48	0.44
9:3:359:ILE:O	9:3:362:ILE:HB	2.18	0.44
10:4:338:VAL:HG11	10:4:393:ASP:CG	2.38	0.44
10:4:646:HIS:CE1	10:4:698:LEU:HD13	2.53	0.44
11:5:87:ILE:HB	11:5:88:PRO:HD3	2.00	0.44
11:5:97:VAL:HG13	11:5:100:ARG:HD2	2.00	0.44
11:5:419:GLY:HA2	14:5:801:ATP:H5'2	1.99	0.44
11:5:612:PRO:HA	11:5:670:PRO:O	2.18	0.44
12:6:282:GLU:H	12:6:282:GLU:CD	2.18	0.44
12:6:416:LYS:HB3	12:6:448:LEU:O	2.17	0.44
12:6:638:ILE:CG2	12:6:639:ASP:H	2.24	0.44
12:6:749:GLU:HA	12:6:752:ARG:CZ	2.47	0.44
13:7:279:THR:O	13:7:279:THR:HG23	2.18	0.44
13:7:372:THR:O	13:7:373:GLU:HB3	2.18	0.44
1:A:5:LEU:HG	1:A:36:ILE:HD11	1.98	0.44
1:A:164:ASP:O	1:A:207:LYS:NZ	2.49	0.44
1:A:173:GLU:HB3	1:A:182:ASN:CA	2.48	0.44
2:B:11:PHE:HD1	4:D:71:ARG:NH1	2.16	0.44
2:B:87:ILE:HG21	2:B:130:ALA:CB	2.48	0.44
2:B:146:GLN:OE1	2:B:149:ARG:HD3	2.17	0.44
3:C:135:LEU:HA	3:C:138:HIS:CD2	2.38	0.44
4:D:76:LEU:O	4:D:77:LEU:HD23	2.17	0.44
5:E:58:ILE:HG22	5:E:478:TRP:HH2	1.83	0.44
5:E:71:TYR:CE2	5:E:96:LEU:HD13	2.52	0.44
5:E:285:ALA:CA	5:E:288:TYR:HB3	2.48	0.44
5:E:430:ALA:HA	5:E:433:GLU:OE2	2.17	0.44
8:2:219:THR:HG22	8:2:225:SER:N	2.33	0.44
8:2:296:ARG:HH21	8:2:413:ASP:HB2	1.83	0.44
8:2:310:ARG:O	8:2:313:ASN:N	2.50	0.44
8:2:502:ALA:HB1	8:2:505:ILE:HG13	1.98	0.44
8:2:526:ASN:HA	8:2:532:SER:CB	2.48	0.44
8:2:786:VAL:HA	8:2:789:VAL:HB	1.98	0.44
8:2:843:ASP:CA	8:2:846:VAL:HB	2.43	0.44
9:3:329:LEU:HA	9:3:339:ARG:HH21	1.82	0.44
9:3:330:HIS:NE2	9:3:427:SER:HB2	2.32	0.44
9:3:406:LEU:HA	9:3:514:ALA:O	2.17	0.44
9:3:553:ILE:CD1	11:5:630:ARG:HD2	2.47	0.44
10:4:315:ARG:NH2	13:7:250:ASP:HA	2.32	0.44
11:5:97:VAL:HA	11:5:100:ARG:CD	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:114:ALA:O	12:6:118:PHE:HB2	2.17	0.44
12:6:182:GLN:H	12:6:182:GLN:CD	2.19	0.44
12:6:587:TYR:HD2	12:6:588:VAL:CG2	2.31	0.44
12:6:653:HIS:CD2	12:6:704:PRO:HB2	2.52	0.44
13:7:73:ARG:HH21	13:7:132:ILE:HA	1.81	0.44
13:7:118:CYS:SG	13:7:202:LEU:HD13	2.58	0.44
13:7:648:LYS:HE2	13:7:704:LEU:HD22	1.98	0.44
2:B:27:ILE:HD12	2:B:85:CYS:HB2	2.00	0.44
3:C:75:LEU:HD23	3:C:76:PRO:N	2.32	0.44
3:C:86:ASN:HA	3:C:89:LYS:CD	2.48	0.44
4:D:144:ILE:HG13	4:D:145:ARG:H	1.80	0.44
5:E:59:VAL:HG12	5:E:61:ILE:HD12	1.98	0.44
5:E:231:HIS:O	5:E:235:GLY:N	2.43	0.44
5:E:324:TYR:CE1	5:E:405:ILE:HG23	2.53	0.44
5:E:381:ASP:O	5:E:385:LYS:HG2	2.18	0.44
5:E:415:TYR:CE1	11:5:38:PHE:HD1	2.35	0.44
5:E:580:LEU:HD23	5:E:580:LEU:C	2.38	0.44
8:2:495:ASP:OD1	8:2:509:ARG:NH2	2.47	0.44
8:2:541:LEU:HD21	8:2:543:GLY:HA2	2.00	0.44
8:2:600:ASP:OD2	8:2:601:LYS:NZ	2.40	0.44
8:2:767:ILE:HG13	8:2:768:HIS:N	2.33	0.44
8:2:846:VAL:HG11	8:2:857:LEU:HD23	2.00	0.44
9:3:33:ASP:HB2	9:3:39:ARG:HH11	1.83	0.44
9:3:119:ALA:CA	9:3:221:LEU:HD22	2.48	0.44
9:3:245:TYR:CB	13:7:236:GLY:HA3	2.48	0.44
9:3:293:ASN:N	9:3:329:LEU:HD23	2.33	0.44
9:3:446:VAL:HG21	9:3:458:GLU:CB	2.46	0.44
9:3:466:ASP:HB3	13:7:324:VAL:O	2.18	0.44
10:4:512:VAL:HG13	10:4:515:ARG:NH1	2.33	0.44
10:4:634:PHE:CE2	10:4:702:PHE:HZ	2.36	0.44
10:4:727:LEU:H	10:4:728:TYR:HB3	1.83	0.44
11:5:305:ASN:N	11:5:305:ASN:ND2	2.63	0.44
11:5:412:VAL:HG22	11:5:552:MET:HB2	2.00	0.44
11:5:525:PRO:HB3	11:5:539:ASN:HD21	1.81	0.44
11:5:667:GLU:O	11:5:668:LEU:HB3	2.17	0.44
12:6:365:ALA:O	12:6:368:ILE:HG13	2.18	0.44
13:7:458:LEU:HD23	13:7:598:PHE:HB2	2.00	0.44
13:7:603:ILE:HG23	13:7:604:PRO:HD2	2.00	0.44
1:A:10:VAL:HG21	3:C:9:VAL:CG1	2.48	0.44
1:A:175:GLN:CG	1:A:181:PHE:H	2.29	0.44
2:B:89:ALA:HB2	2:B:134:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:99:ASP:HA	2:B:102:ILE:HG12	2.00	0.44
4:D:202:MET:SD	4:D:207:GLN:HA	2.58	0.44
5:E:348:LEU:HB2	5:E:350:LEU:HD21	2.00	0.44
5:E:362:MET:HE1	5:E:396:LEU:HD13	2.00	0.44
8:2:242:LEU:HD22	8:2:295:VAL:CG1	2.46	0.44
8:2:410:LEU:HB3	8:2:415:VAL:HG22	1.98	0.44
8:2:528:ASN:HA	8:2:529:GLY:HA2	1.59	0.44
8:2:565:PHE:CE2	8:2:567:THR:HB	2.53	0.44
8:2:617:ARG:CG	8:2:620:ILE:HD12	2.32	0.44
9:3:25:VAL:HG22	9:3:124:PRO:O	2.18	0.44
9:3:374:HIS:CB	9:3:377:ILE:HD12	2.44	0.44
9:3:475:PHE:CB	9:3:514:ALA:HB1	2.46	0.44
10:4:519:TYR:CE1	10:4:808:HIS:HD2	2.36	0.44
11:5:530:TYR:CD1	11:5:533:LEU:HD12	2.50	0.44
11:5:546:ILE:HG22	11:5:550:PHE:CZ	2.53	0.44
12:6:122:PHE:N	12:6:134:LYS:HE2	2.33	0.44
12:6:364:ASN:OD1	12:6:394:ARG:NH1	2.51	0.44
13:7:415:ALA:HB1	13:7:430:LYS:HD2	2.00	0.44
1:A:22:ARG:CB	1:A:23:SER:CA	2.93	0.43
1:A:38:ARG:HA	1:A:41:LEU:HD12	1.99	0.43
2:B:7:LEU:N	2:B:8:GLN:CA	2.79	0.43
2:B:72:VAL:HG13	2:B:75:ILE:HG23	2.00	0.43
2:B:79:LEU:O	2:B:84:LYS:N	2.42	0.43
4:D:79:TYR:CD1	4:D:80:PRO:HD2	2.52	0.43
4:D:191:LEU:CA	4:D:194:VAL:HG12	2.36	0.43
5:E:154:GLU:CD	5:E:240:TYR:HB2	2.38	0.43
5:E:325:TYR:CD2	5:E:404:ILE:HA	2.39	0.43
5:E:410:VAL:HG13	5:E:419:ILE:C	2.38	0.43
5:E:426:GLU:HA	5:E:429:THR:CG2	2.48	0.43
5:E:575:ASN:HB2	5:E:578:THR:CG2	2.48	0.43
6:F:22:DT:H2'	6:F:23:DT:C4	2.53	0.43
8:2:235:GLY:HA2	8:2:283:TYR:CE2	2.53	0.43
8:2:286:TYR:CD1	8:2:289:ILE:HB	2.53	0.43
8:2:390:LEU:HB3	8:2:408:VAL:CG2	2.48	0.43
8:2:501:MET:HB3	8:2:512:LYS:HD3	1.98	0.43
8:2:540:LEU:HB3	8:2:679:ILE:O	2.18	0.43
8:2:701:ASP:O	8:2:704:VAL:HB	2.18	0.43
9:3:303:ALA:HB1	9:3:307:ASN:HB2	1.96	0.43
9:3:362:ILE:CG2	9:3:651:VAL:HG22	2.48	0.43
9:3:404:ASN:C	9:3:405:ILE:HD12	2.38	0.43
9:3:456:ARG:CZ	9:3:456:ARG:HB2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:495:VAL:O	9:3:505:THR:HG23	2.18	0.43
9:3:683:TYR:HA	9:3:686:LEU:HG	2.00	0.43
10:4:347:PHE:HA	10:4:383:SER:O	2.18	0.43
10:4:387:ASN:HB2	12:6:175:TYR:CE2	2.52	0.43
10:4:399:LEU:C	10:4:399:LEU:HD23	2.39	0.43
10:4:546:GLY:HA3	10:4:562:ILE:HD11	1.99	0.43
10:4:604:TYR:O	10:4:605:ILE:HG22	2.18	0.43
11:5:86:ILE:HG12	11:5:89:LEU:HD12	2.00	0.43
11:5:570:ASN:OD1	11:5:574:ASN:ND2	2.50	0.43
12:6:511:ASP:HA	12:6:514:ASN:ND2	2.33	0.43
12:6:550:GLN:HG3	12:6:571:ILE:CD1	2.48	0.43
12:6:738:ARG:NH1	12:6:740:GLU:HB2	2.33	0.43
13:7:21:ILE:HG22	13:7:25:LEU:HD11	1.99	0.43
13:7:227:VAL:HA	13:7:230:ILE:CD1	2.47	0.43
13:7:398:GLU:O	13:7:401:VAL:HB	2.18	0.43
2:B:5:ALA:N	2:B:8:GLN:OE1	2.51	0.43
2:B:57:ASP:O	2:B:58:LYS:HB3	2.18	0.43
3:C:75:LEU:HD23	3:C:76:PRO:O	2.17	0.43
3:C:120:LEU:C	3:C:120:LEU:HD12	2.39	0.43
4:D:123:LYS:HG3	4:D:126:LEU:CD1	2.39	0.43
4:D:259:THR:OG1	4:D:266:GLU:HA	2.18	0.43
5:E:31:VAL:HB	5:E:60:PRO:CA	2.26	0.43
5:E:311:LYS:H	5:E:312:THR:HA	1.81	0.43
8:2:212:LYS:HD3	8:2:212:LYS:HA	1.79	0.43
8:2:356:ASN:O	11:5:321:VAL:HG21	2.17	0.43
8:2:477:THR:HB	8:2:480:GLU:HG3	1.99	0.43
8:2:515:VAL:O	8:2:519:LEU:HB3	2.17	0.43
8:2:533:ILE:HG22	8:2:534:ARG:N	2.33	0.43
8:2:576:LEU:HD12	8:2:616:ASP:OD2	2.19	0.43
9:3:30:GLU:H	9:3:30:GLU:CD	2.21	0.43
9:3:164:HIS:CD2	9:3:180:VAL:HG22	2.54	0.43
9:3:195:LYS:HB2	13:7:371:LEU:HD12	2.00	0.43
9:3:223:THR:OG1	11:5:244:ILE:HG23	2.17	0.43
9:3:529:PRO:O	9:3:532:ASN:HB3	2.19	0.43
9:3:683:TYR:O	9:3:686:LEU:HB2	2.18	0.43
10:4:234:ARG:HB2	10:4:291:TYR:CE2	2.49	0.43
10:4:261:LEU:HD21	10:4:325:LEU:HD12	2.00	0.43
10:4:635:ASP:HA	10:4:694:LEU:CD1	2.48	0.43
10:4:727:LEU:HD22	13:7:444:VAL:HB	1.99	0.43
10:4:804:LEU:O	10:4:807:ALA:HB3	2.18	0.43
10:4:825:ALA:O	10:4:829:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:97:VAL:HA	11:5:100:ARG:HD2	2.01	0.43
11:5:243:ILE:H	11:5:243:ILE:HG13	1.69	0.43
12:6:137:ARG:HA	12:6:140:ILE:HD12	1.99	0.43
12:6:703:ALA:O	12:6:706:MET:HB3	2.18	0.43
13:7:114:THR:HG22	13:7:204:PHE:HE2	1.83	0.43
13:7:118:CYS:O	13:7:121:ILE:HG13	2.18	0.43
13:7:147:ARG:HA	13:7:150:ASN:HB3	2.00	0.43
13:7:402:MET:CG	13:7:405:ILE:HD12	2.48	0.43
1:A:159:SER:HA	1:A:160:ASP:HA	1.68	0.43
2:B:12:SER:O	2:B:15:GLU:HB2	2.19	0.43
2:B:75:ILE:HG13	2:B:76:ALA:N	2.31	0.43
2:B:141:LEU:O	2:B:145:ILE:HG23	2.19	0.43
2:B:193:ARG:HG2	2:B:193:ARG:HH11	1.83	0.43
5:E:164:GLU:O	5:E:165:LEU:HG	2.18	0.43
5:E:528:CYS:HB2	5:E:568:VAL:O	2.18	0.43
5:E:539:TYR:HA	5:E:544:THR:CG2	2.46	0.43
5:E:624:ASN:ND2	5:E:630:ILE:HA	2.33	0.43
6:F:5:DA:H2'	6:F:6:DT:H72	2.00	0.43
8:2:258:LEU:HA	8:2:261:ALA:HB3	1.98	0.43
8:2:479:GLU:HA	8:2:482:ARG:HD2	1.95	0.43
8:2:518:SER:OG	8:2:537:ILE:HB	2.18	0.43
8:2:574:VAL:CG2	8:2:575:GLY:H	2.09	0.43
8:2:574:VAL:CB	12:6:664:ALA:HB3	2.48	0.43
8:2:810:LEU:O	8:2:813:ILE:HG12	2.19	0.43
14:2:901:ATP:O2G	12:6:653:HIS:CE1	2.72	0.43
9:3:114:ILE:O	9:3:118:PRO:HB3	2.18	0.43
9:3:404:ASN:HB2	9:3:490:MET:HE3	1.99	0.43
9:3:420:ARG:HD3	9:3:423:LEU:HD13	2.01	0.43
10:4:180:ILE:HG21	10:4:267:GLU:OE1	2.19	0.43
10:4:371:CYS:SG	10:4:372:GLU:N	2.91	0.43
10:4:372:GLU:O	10:4:372:GLU:HG2	2.18	0.43
10:4:563:ASN:CG	10:4:671:ILE:HB	2.38	0.43
10:4:581:VAL:HA	10:4:584:ILE:CG1	2.45	0.43
10:4:647:GLU:HG2	10:4:653:THR:O	2.17	0.43
10:4:801:MET:HG2	10:4:829:ILE:CD1	2.48	0.43
11:5:179:LEU:HD13	11:5:181:ILE:CD1	2.47	0.43
11:5:320:GLY:HA2	11:5:321:VAL:C	2.37	0.43
11:5:369:ILE:CG2	11:5:594:ILE:HD11	2.40	0.43
11:5:654:GLU:O	11:5:657:ILE:HB	2.18	0.43
12:6:122:PHE:HB3	12:6:134:LYS:HD2	2.01	0.43
12:6:143:MET:CE	12:6:150:THR:HG22	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:569:ILE:HG13	12:6:570:ASN:N	2.33	0.43
12:6:608:LEU:N	12:6:627:ALA:HB3	2.33	0.43
12:6:710:ASP:HA	12:6:711:LEU:HA	1.70	0.43
12:6:807:SER:HA	12:6:810:ILE:HD12	2.01	0.43
13:7:548:ILE:HD12	13:7:548:ILE:N	2.33	0.43
13:7:557:LEU:C	13:7:557:LEU:HD12	2.39	0.43
1:A:72:TYR:O	1:A:76:LEU:HB3	2.18	0.43
1:A:164:ASP:OD1	1:A:190:PHE:HD1	2.01	0.43
4:D:161:LEU:HD21	4:D:168:LEU:O	2.18	0.43
4:D:259:THR:CG2	4:D:268:GLU:HB3	2.48	0.43
5:E:43:LYS:CA	5:E:46:SER:HB3	2.34	0.43
5:E:432:LEU:HD13	5:E:543:LEU:CD1	2.49	0.43
5:E:567:MET:HB2	5:E:584:LEU:HD13	2.01	0.43
8:2:327:ARG:CZ	8:2:420:PRO:HD3	2.48	0.43
8:2:522:GLY:HA2	8:2:822:LYS:NZ	2.33	0.43
8:2:855:ARG:CZ	8:2:855:ARG:HB2	2.48	0.43
9:3:194:PRO:HG2	13:7:373:GLU:CA	2.48	0.43
9:3:299:LYS:HG3	9:3:322:LEU:CG	2.47	0.43
10:4:343:LYS:HE2	10:4:392:ALA:CB	2.48	0.43
10:4:661:ILE:HD11	12:6:391:PRO:HB3	2.00	0.43
10:4:750:TYR:HA	10:4:753:TYR:HB3	2.00	0.43
11:5:51:ARG:HA	11:5:54:ILE:HG13	2.00	0.43
11:5:388:ILE:O	11:5:392:LEU:HG	2.18	0.43
11:5:536:PRO:CG	11:5:643:ARG:HD3	2.47	0.43
12:6:182:GLN:O	12:6:186:ARG:HG3	2.17	0.43
12:6:288:LEU:H	12:6:399:GLY:CA	2.13	0.43
12:6:294:VAL:HG11	12:6:391:PRO:HA	1.99	0.43
13:7:643:ALA:HA	13:7:646:LYS:CB	2.45	0.43
1:A:202:GLN:HB3	1:A:204:TYR:CD2	2.50	0.43
3:C:115:PHE:CE2	3:C:117:GLU:HB2	2.54	0.43
5:E:5:ILE:N	5:E:142:CYS:O	2.51	0.43
5:E:41:ALA:HA	5:E:44:MET:CG	2.49	0.43
5:E:288:TYR:HA	5:E:291:LEU:CD1	2.47	0.43
5:E:379:TYR:HE2	11:5:143:ALA:HB3	1.83	0.43
5:E:566:PRO:N	5:E:586:PRO:HD3	2.33	0.43
8:2:286:TYR:CE1	8:2:289:ILE:HB	2.54	0.43
8:2:404:ARG:NH2	12:6:299:GLU:HA	2.34	0.43
8:2:481:GLU:C	8:2:484:PHE:HB3	2.38	0.43
8:2:548:ALA:N	14:2:901:ATP:C8	2.87	0.43
8:2:671:GLU:N	8:2:672:PRO:CD	2.82	0.43
9:3:189:THR:HA	9:3:256:ILE:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:291:ARG:NH2	9:3:331:ALA:O	2.51	0.43
9:3:536:PRO:HA	9:3:537:ASP:HA	1.67	0.43
10:4:315:ARG:HG2	10:4:410:GLN:CD	2.38	0.43
10:4:342:MET:HB3	10:4:360:ILE:CD1	2.48	0.43
10:4:445:ARG:HG2	10:4:453:LEU:HD23	2.01	0.43
10:4:462:ASP:O	10:4:463:VAL:HG22	2.18	0.43
10:4:594:LYS:HD3	10:4:636:LYS:HG2	2.00	0.43
10:4:696:PRO:HG2	10:4:697:PRO:CD	2.49	0.43
11:5:139:LEU:O	11:5:139:LEU:HD12	2.19	0.43
11:5:148:LEU:CD2	11:5:260:GLU:HB3	2.44	0.43
11:5:169:THR:HG22	11:5:256:LEU:HA	2.00	0.43
11:5:367:TYR:HD1	11:5:666:LEU:CD1	2.30	0.43
11:5:400:LEU:HB2	11:5:401:PRO:HD2	2.01	0.43
11:5:596:ILE:HG22	11:5:596:ILE:O	2.18	0.43
11:5:673:GLN:OE1	11:5:676:HIS:HB2	2.19	0.43
12:6:294:VAL:HB	12:6:392:GLY:H	1.83	0.43
12:6:297:THR:HG22	12:6:391:PRO:HG3	2.01	0.43
12:6:326:LYS:CB	12:6:327:TYR:CA	2.97	0.43
13:7:63:TYR:HD1	13:7:66:MET:CE	2.32	0.43
13:7:260:TYR:HB3	13:7:298:LEU:HB2	1.99	0.43
13:7:411:TYR:O	13:7:415:ALA:HB2	2.18	0.43
13:7:416:LYS:HD2	13:7:426:LEU:HD12	1.99	0.43
13:7:605:SER:O	13:7:609:ASP:N	2.31	0.43
13:7:628:LEU:N	13:7:629:ASP:CA	2.79	0.43
1:A:47:LEU:HD21	1:A:75:THR:CB	2.15	0.43
3:C:134:GLU:O	3:C:137:HIS:N	2.50	0.43
4:D:214:GLY:HA2	4:D:215:SER:HA	1.30	0.43
5:E:150:ASP:HB2	5:E:152:LEU:HB2	2.00	0.43
8:2:305:SER:HA	8:2:321:THR:CG2	2.47	0.43
8:2:508:HIS:HB2	8:2:511:ILE:CB	2.48	0.43
8:2:784:ASP:O	8:2:787:SER:OG	2.29	0.43
8:2:816:ILE:O	8:2:819:SER:OG	2.30	0.43
8:2:816:ILE:CG2	8:2:837:ALA:HA	2.49	0.43
8:2:834:LEU:HA	8:2:837:ALA:HB3	2.00	0.43
9:3:360:PHE:HZ	9:3:379:LYS:HB3	1.81	0.43
10:4:261:LEU:C	10:4:261:LEU:HD23	2.39	0.43
10:4:346:PHE:CG	10:4:388:ARG:HB2	2.54	0.43
10:4:503:ASP:HA	10:4:506:LEU:HD12	2.01	0.43
10:4:608:ASP:HB2	10:4:615:VAL:HG21	2.01	0.43
10:4:794:THR:HG21	10:4:796:ARG:HB3	1.99	0.43
10:4:806:GLU:O	10:4:809:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:33:ASN:CB	11:5:37:GLU:HG3	2.48	0.43
12:6:117:GLN:O	12:6:120:GLU:HB2	2.19	0.43
12:6:398:THR:HB	12:6:457:CYS:SG	2.58	0.43
12:6:459:VAL:HG12	12:6:460:ILE:N	2.33	0.43
12:6:755:ILE:O	12:6:759:ARG:N	2.49	0.43
13:7:73:ARG:HG2	13:7:199:ARG:NH2	2.34	0.43
13:7:357:PRO:CB	13:7:374:THR:HA	2.49	0.43
13:7:704:LEU:O	13:7:706:ASP:N	2.50	0.43
1:A:49:LYS:HA	1:A:52:GLU:OE2	2.19	0.43
1:A:139:THR:O	1:A:142:LYS:HB2	2.19	0.43
2:B:7:LEU:N	2:B:7:LEU:HD12	2.34	0.43
2:B:115:LEU:HD21	2:B:152:ARG:NH2	2.33	0.43
3:C:95:LEU:HD23	3:C:95:LEU:C	2.38	0.43
4:D:133:LEU:HD23	4:D:134:GLU:N	2.34	0.43
4:D:172:THR:HG21	4:D:177:LYS:HZ1	1.84	0.43
5:E:15:ILE:HD12	5:E:18:ASN:HB2	2.01	0.43
5:E:298:GLU:CD	5:E:301:ARG:HD3	2.39	0.43
5:E:376:THR:CG2	5:E:378:LEU:HG	2.48	0.43
5:E:492:LEU:HG	5:E:496:ILE:CG1	2.48	0.43
8:2:388:VAL:HG21	8:2:410:LEU:HD11	2.00	0.43
8:2:667:VAL:HG21	8:2:669:LEU:HB2	2.01	0.43
8:2:678:ASP:OD1	8:2:679:ILE:N	2.51	0.43
8:2:776:PRO:CD	8:2:822:LYS:HE2	2.45	0.43
9:3:200:VAL:HG12	9:3:244:GLU:OE1	2.18	0.43
9:3:294:VAL:HG22	9:3:326:VAL:CG2	2.48	0.43
10:4:243:LEU:CD2	10:4:244:ASP:H	2.31	0.43
10:4:344:VAL:CA	10:4:360:ILE:HD12	2.49	0.43
10:4:348:LYS:CB	10:4:383:SER:HB2	2.44	0.43
10:4:359:GLU:OE1	10:4:359:GLU:N	2.39	0.43
10:4:456:LEU:CD1	13:7:254:ALA:HB2	2.38	0.43
10:4:501:ILE:HD13	10:4:749:MET:HE3	1.99	0.43
10:4:605:ILE:HG13	10:4:616:LEU:CD1	2.48	0.43
10:4:629:CYS:N	10:4:670:SER:O	2.51	0.43
11:5:32:LYS:HA	11:5:35:ILE:CD1	2.43	0.43
11:5:179:LEU:HA	11:5:248:SER:OG	2.19	0.43
11:5:459:THR:HG22	11:5:459:THR:O	2.19	0.43
11:5:468:ALA:HA	11:5:471:LEU:HG	2.01	0.43
12:6:155:TYR:CZ	12:6:167:ALA:HB1	2.54	0.43
12:6:552:LEU:HD21	12:6:758:ALA:HB3	1.99	0.43
12:6:656:MET:SD	12:6:709:PHE:HE1	2.41	0.43
12:6:776:LYS:HG2	12:6:828:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:245:ILE:HD11	13:7:343:LEU:HD13	2.00	0.43
13:7:412:ASN:O	13:7:415:ALA:HB3	2.18	0.43
13:7:412:ASN:O	13:7:415:ALA:N	2.52	0.43
13:7:414:LEU:HA	13:7:417:SER:OG	2.18	0.43
1:A:106:GLY:H	1:A:107:LEU:CD1	2.32	0.43
1:A:109:LEU:HG	1:A:111:SER:CB	2.37	0.43
1:A:131:LEU:HA	1:A:134:TYR:HB3	2.00	0.43
2:B:155:LYS:C	2:B:158:LYS:HG2	2.40	0.43
3:C:181:HIS:O	3:C:185:LYS:HG3	2.19	0.43
4:D:133:LEU:CD2	4:D:137:LYS:HE3	2.49	0.43
5:E:30:PHE:HB2	5:E:83:LEU:HA	2.01	0.43
5:E:285:ALA:HB3	5:E:286:GLN:O	2.19	0.43
5:E:553:ILE:HD13	5:E:585:THR:O	2.19	0.43
8:2:332:PRO:O	11:5:323:ILE:HG23	2.19	0.43
8:2:399:PRO:CB	12:6:630:LEU:CB	2.97	0.43
8:2:424:VAL:HG23	8:2:457:LYS:O	2.19	0.43
8:2:476:TRP:HA	8:2:765:LYS:HD2	1.99	0.43
8:2:520:PHE:HE1	8:2:766:TYR:CE2	2.36	0.43
8:2:657:TYR:HE2	8:2:660:THR:HA	1.83	0.43
8:2:706:SER:O	12:6:762:LYS:NZ	2.39	0.43
9:3:276:VAL:HG13	9:3:321:ILE:O	2.18	0.43
9:3:353:LEU:CD2	9:3:359:ILE:HD12	2.49	0.43
10:4:256:ASP:O	10:4:260:GLN:N	2.38	0.43
10:4:354:HIS:HB2	10:4:373:ARG:HB2	2.01	0.43
10:4:527:ALA:O	10:4:537:LYS:NZ	2.51	0.43
10:4:747:LEU:O	10:4:751:ILE:N	2.52	0.43
10:4:830:ARG:CA	10:4:833:ILE:HB	2.45	0.43
11:5:167:ILE:HD11	11:5:273:ASN:CB	2.48	0.43
11:5:426:LEU:O	11:5:429:VAL:HB	2.19	0.43
11:5:501:THR:HG22	11:5:514:ASN:HA	2.00	0.43
11:5:546:ILE:HD12	11:5:546:ILE:N	2.31	0.43
12:6:575:GLY:N	12:6:581:LYS:HZ1	2.16	0.43
12:6:655:ALA:N	12:6:661:ILE:HD11	2.34	0.43
13:7:82:LEU:C	13:7:207:LEU:HD23	2.38	0.43
13:7:149:ARG:HG3	13:7:153:MET:CE	2.48	0.43
13:7:414:LEU:HA	13:7:417:SER:HB2	2.00	0.43
13:7:636:SER:HB3	13:7:639:ARG:HH21	1.84	0.43
1:A:37:ILE:HG13	1:A:38:ARG:N	2.33	0.43
1:A:157:PRO:HB3	2:B:18:PHE:CD1	2.54	0.43
2:B:10:THR:HB	2:B:182:ARG:HD2	2.00	0.43
2:B:78:LEU:HD23	2:B:78:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:165:GLU:HB2	2:B:166:SER:HA	2.00	0.43
3:C:48:LEU:HD21	3:C:110:LYS:CD	2.48	0.43
4:D:177:LYS:HA	4:D:180:ILE:CD1	2.49	0.43
5:E:83:LEU:O	5:E:123:LEU:HG	2.19	0.43
5:E:230:ILE:HG22	5:E:234:GLU:CD	2.39	0.43
5:E:361:LYS:O	5:E:364:ALA:HB3	2.19	0.43
8:2:255:ILE:CD1	8:2:256:LEU:HG	2.48	0.43
8:2:427:THR:O	8:2:453:ALA:HA	2.18	0.43
8:2:570:GLY:H	8:2:571:ALA:HB2	1.83	0.43
8:2:630:SER:HB2	11:5:444:SER:CB	2.48	0.43
9:3:33:ASP:CB	9:3:39:ARG:HH11	2.32	0.43
9:3:212:ARG:CB	9:3:232:PRO:HG3	2.48	0.43
9:3:245:TYR:HB2	13:7:236:GLY:HA3	2.01	0.43
9:3:389:VAL:HB	9:3:710:THR:CG2	2.45	0.43
9:3:463:VAL:HG22	9:3:506:LEU:HD11	2.00	0.43
10:4:188:GLN:C	10:4:190:CYS:N	2.71	0.43
10:4:436:THR:O	10:4:464:VAL:N	2.52	0.43
10:4:517:ASP:O	10:4:520:SER:N	2.45	0.43
10:4:566:LEU:HD12	10:4:566:LEU:C	2.39	0.43
11:5:295:VAL:HG12	11:5:296:GLY:N	2.34	0.43
11:5:373:SER:N	11:5:593:GLU:OE2	2.52	0.43
12:6:174:TYR:HE1	12:6:267:PHE:CE2	2.35	0.43
12:6:292:GLY:CA	12:6:361:ILE:HD11	2.47	0.43
12:6:383:GLY:O	12:6:386:VAL:HG12	2.19	0.43
12:6:584:PHE:O	12:6:587:TYR:HB3	2.18	0.43
12:6:613:VAL:N	12:6:622:THR:O	2.43	0.43
12:6:635:ILE:HA	12:6:677:SER:O	2.18	0.43
13:7:142:ILE:O	13:7:146:ARG:N	2.44	0.43
13:7:223:LYS:HA	13:7:224:PRO:HD2	1.91	0.43
13:7:333:ILE:HA	13:7:376:LEU:O	2.18	0.43
13:7:418:ILE:O	13:7:429:LYS:HD3	2.18	0.43
13:7:718:ARG:HA	13:7:721:ARG:HH11	1.82	0.43
2:B:116:PRO:O	2:B:117:TRP:HB3	2.19	0.43
2:B:153:GLN:O	2:B:156:VAL:HB	2.18	0.43
3:C:7:ASP:O	3:C:11:ALA:N	2.52	0.43
3:C:47:PRO:HB3	3:C:49:TRP:NE1	2.34	0.43
4:D:80:PRO:HD3	4:D:143:TYR:OH	2.19	0.43
5:E:63:GLY:O	5:E:66:GLU:HB3	2.19	0.43
5:E:64:TYR:OH	5:E:90:ILE:HD13	2.18	0.43
5:E:125:ALA:HB2	5:E:251:ILE:CG2	2.49	0.43
5:E:129:TRP:HE3	5:E:133:ASN:HD22	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:212:LYS:HD2	8:2:215:LEU:HD22	2.00	0.43
8:2:296:ARG:NH2	8:2:413:ASP:HB2	2.34	0.43
8:2:332:PRO:HG3	11:5:300:ILE:CG1	2.48	0.43
8:2:487:ILE:O	8:2:493:ILE:HG21	2.18	0.43
9:3:195:LYS:HG3	13:7:371:LEU:HA	2.01	0.43
9:3:196:LEU:CD2	9:3:214:TYR:HD2	2.31	0.43
9:3:439:GLY:O	9:3:442:LEU:HD13	2.19	0.43
10:4:202:LYS:N	10:4:224:LEU:HA	2.34	0.43
10:4:317:LEU:O	13:7:341:ARG:NH2	2.51	0.43
10:4:345:ALA:O	10:4:357:ALA:HB1	2.19	0.43
10:4:512:VAL:HG22	10:4:515:ARG:NH1	2.17	0.43
11:5:252:ASP:OD1	11:5:253:GLN:N	2.51	0.43
11:5:261:ILE:CG2	11:5:262:PRO:HD2	2.48	0.43
11:5:372:ASN:HB2	11:5:593:GLU:OE2	2.19	0.43
11:5:407:ARG:CZ	11:5:658:ARG:HH22	2.32	0.43
11:5:540:ILE:HG21	11:5:546:ILE:HG21	2.01	0.43
12:6:133:GLU:O	12:6:135:VAL:HB	2.19	0.43
12:6:183:LYS:HA	12:6:186:ARG:CZ	2.49	0.43
12:6:528:LYS:CD	12:6:531:ARG:HD2	2.49	0.43
12:6:551:MET:C	12:6:552:LEU:HD12	2.39	0.43
12:6:656:MET:HG3	12:6:709:PHE:HE1	1.84	0.43
13:7:417:SER:O	13:7:420:PRO:HD3	2.18	0.43
1:A:15:ARG:NH2	11:5:670:PRO:HG3	2.33	0.42
2:B:107:THR:HG23	2:B:108:HIS:HD1	1.83	0.42
2:B:184:PHE:CE2	2:B:188:ILE:HD11	2.54	0.42
3:C:3:TYR:HE1	4:D:218:MET:HG3	1.84	0.42
3:C:115:PHE:CD2	3:C:117:GLU:HB2	2.54	0.42
4:D:78:PRO:N	4:D:174:LEU:HD12	2.34	0.42
4:D:133:LEU:HD21	4:D:137:LYS:NZ	2.34	0.42
5:E:13:ASN:CA	5:E:16:LEU:HG	2.45	0.42
5:E:140:ILE:HD12	5:E:140:ILE:C	2.39	0.42
5:E:315:THR:CA	5:E:316:LEU:HB3	2.49	0.42
5:E:639:PRO:O	5:E:643:LYS:HG3	2.19	0.42
7:G:5:DA:O4'	13:7:364:LYS:HD2	2.18	0.42
8:2:247:ARG:HH22	8:2:301:PRO:CD	2.31	0.42
8:2:248:HIS:O	8:2:251:GLU:HB3	2.19	0.42
8:2:274:VAL:HG22	8:2:277:GLU:OE2	2.19	0.42
8:2:327:ARG:HB2	8:2:388:VAL:HG22	2.01	0.42
8:2:340:ASN:CB	8:2:376:ASN:HB3	2.47	0.42
8:2:348:LEU:O	8:2:348:LEU:HG	2.19	0.42
8:2:537:ILE:HG23	8:2:678:ASP:OD1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:569:GLN:CG	8:2:570:GLY:H	2.29	0.42
8:2:758:ILE:HG22	8:2:762:LEU:HB2	2.00	0.42
9:3:21:PHE:O	9:3:25:VAL:HG23	2.18	0.42
9:3:43:ARG:HA	9:3:46:GLN:CG	2.49	0.42
9:3:408:VAL:O	9:3:548:VAL:HA	2.19	0.42
9:3:411:PRO:O	9:3:412:SER:OG	2.32	0.42
9:3:485:ALA:O	9:3:488:GLU:HB3	2.19	0.42
9:3:533:ILE:O	9:3:534:ALA:HB3	2.19	0.42
9:3:727:LYS:O	9:3:731:ASN:HB2	2.19	0.42
10:4:202:LYS:H	10:4:224:LEU:HA	1.83	0.42
10:4:517:ASP:OD2	10:4:521:LEU:HB2	2.18	0.42
10:4:679:GLY:HA3	10:4:681:ARG:O	2.19	0.42
11:5:95:THR:HA	11:5:98:ALA:HB3	2.00	0.42
11:5:373:SER:CB	11:5:594:ILE:HB	2.49	0.42
11:5:397:LYS:HG3	11:5:399:ILE:HD11	1.99	0.42
11:5:491:VAL:HA	11:5:494:HIS:CD2	2.33	0.42
11:5:540:ILE:CG2	11:5:546:ILE:HB	2.49	0.42
11:5:668:LEU:O	11:5:668:LEU:HD23	2.19	0.42
12:6:156:GLN:O	12:6:160:MET:HG2	2.19	0.42
12:6:781:ARG:HG2	12:6:795:ILE:CG1	2.48	0.42
13:7:245:ILE:HD12	13:7:347:ASP:HB2	2.00	0.42
13:7:260:TYR:CG	13:7:298:LEU:HD13	2.54	0.42
13:7:652:MET:HA	13:7:708:VAL:HG21	1.99	0.42
1:A:149:ILE:HG12	4:D:141:ARG:HG2	2.01	0.42
1:A:149:ILE:HD13	4:D:144:ILE:HD13	1.99	0.42
3:C:77:PRO:HG2	3:C:80:PHE:CD2	2.54	0.42
3:C:101:ASN:HB2	3:C:102:SER:CA	2.48	0.42
4:D:93:MET:HA	4:D:93:MET:CE	2.49	0.42
4:D:230:ILE:HB	4:D:291:VAL:HG22	2.00	0.42
5:E:150:ASP:CB	5:E:152:LEU:CB	2.96	0.42
5:E:297:ASP:O	5:E:301:ARG:N	2.50	0.42
5:E:502:LEU:CD1	5:E:547:ARG:HH22	2.32	0.42
5:E:567:MET:O	5:E:584:LEU:HD12	2.19	0.42
8:2:227:TYR:CZ	8:2:244:VAL:HG13	2.54	0.42
8:2:500:SER:HA	8:2:757:PRO:CB	2.46	0.42
9:3:42:VAL:O	9:3:45:ILE:HB	2.19	0.42
9:3:189:THR:O	9:3:189:THR:HG22	2.19	0.42
9:3:253:HIS:HB3	13:7:371:LEU:HD13	2.00	0.42
9:3:435:ARG:HA	9:3:436:GLY:HA3	1.48	0.42
9:3:443:THR:CG2	9:3:459:ALA:HA	2.46	0.42
10:4:396:VAL:HA	10:4:417:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:526:ILE:CD1	10:4:541:LEU:HB2	2.48	0.42
10:4:594:LYS:HG3	10:4:636:LYS:CD	2.49	0.42
10:4:629:CYS:O	10:4:671:ILE:HA	2.19	0.42
11:5:179:LEU:CD1	11:5:192:ILE:HB	2.44	0.42
11:5:408:GLY:HA2	11:5:409:ASP:HA	1.53	0.42
12:6:137:ARG:O	12:6:140:ILE:HB	2.19	0.42
12:6:276:ILE:HA	12:6:279:ILE:HD12	2.01	0.42
12:6:298:SER:OG	12:6:358:LYS:N	2.42	0.42
12:6:528:LYS:HD3	12:6:531:ARG:HD2	2.01	0.42
12:6:533:ILE:HG22	12:6:534:ALA:N	2.34	0.42
12:6:651:ALA:O	12:6:654:GLU:HB2	2.19	0.42
12:6:657:GLU:OE1	12:6:658:GLN:N	2.51	0.42
12:6:661:ILE:N	12:6:672:LEU:O	2.52	0.42
12:6:819:ILE:HG22	12:6:823:PHE:HB2	2.00	0.42
13:7:86:LEU:HD21	13:7:214:ARG:CD	2.49	0.42
13:7:227:VAL:HA	13:7:230:ILE:HD12	2.01	0.42
13:7:527:ASP:CG	13:7:585:ASN:HB2	2.40	0.42
1:A:35:ASP:OD1	1:A:35:ASP:N	2.52	0.42
1:A:130:TYR:HE1	4:D:189:ILE:HG23	1.82	0.42
2:B:54:THR:HG22	2:B:55:THR:N	2.34	0.42
2:B:77:LEU:HD23	2:B:77:LEU:C	2.38	0.42
2:B:95:THR:HG23	2:B:96:LYS:N	2.34	0.42
4:D:249:ASN:CB	4:D:257:THR:HG22	2.48	0.42
5:E:37:ASP:OD2	5:E:251:ILE:HG12	2.18	0.42
5:E:114:GLN:HG2	5:E:115:SER:H	1.84	0.42
5:E:131:LEU:HD21	5:E:240:TYR:CD2	2.51	0.42
8:2:268:LEU:HD11	8:2:297:ILE:HD11	2.01	0.42
8:2:338:LYS:HD2	8:2:347:ILE:HG21	2.00	0.42
8:2:548:ALA:O	8:2:551:GLN:HB3	2.19	0.42
8:2:551:GLN:O	8:2:554:LYS:HB3	2.19	0.42
9:3:24:ARG:HA	9:3:27:ARG:HB3	2.01	0.42
9:3:390:GLU:OE2	9:3:398:HIS:HB2	2.19	0.42
9:3:476:ASP:N	9:3:476:ASP:OD1	2.52	0.42
10:4:508:LYS:HB3	10:4:746:PHE:CZ	2.54	0.42
10:4:693:ASP:CG	10:4:694:LEU:N	2.71	0.42
10:4:797:GLN:O	10:4:801:MET:HG3	2.20	0.42
11:5:254:GLN:HB3	11:5:256:LEU:CD1	2.48	0.42
11:5:400:LEU:HD12	11:5:400:LEU:C	2.39	0.42
11:5:622:LEU:HD21	11:5:677:VAL:HG12	1.99	0.42
12:6:130:GLY:CA	12:6:131:GLU:CB	2.93	0.42
12:6:166:LEU:O	12:6:170:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:186:ARG:HA	12:6:189:VAL:CB	2.49	0.42
12:6:272:THR:HG22	12:6:273:VAL:N	2.34	0.42
12:6:651:ALA:HA	12:6:654:GLU:CD	2.40	0.42
12:6:721:GLU:O	12:6:725:THR:HG23	2.18	0.42
12:6:802:SER:HA	12:6:805:ARG:CG	2.36	0.42
12:6:805:ARG:HA	12:6:808:GLU:CB	2.47	0.42
12:6:808:GLU:O	12:6:812:ARG:HG2	2.19	0.42
13:7:223:LYS:O	13:7:225:LEU:HG	2.19	0.42
13:7:688:THR:O	13:7:692:ILE:N	2.39	0.42
1:A:145:ASP:HA	1:A:146:LEU:C	2.40	0.42
3:C:11:ALA:HB3	3:C:110:LYS:HE2	2.00	0.42
5:E:344:VAL:HG12	5:E:350:LEU:CD2	2.46	0.42
5:E:510:GLY:O	5:E:513:ILE:HB	2.19	0.42
8:2:311:GLU:OE2	12:6:354:LEU:HA	2.19	0.42
8:2:324:VAL:HB	8:2:422:GLU:H	1.84	0.42
8:2:551:GLN:OE1	8:2:554:LYS:HD2	2.20	0.42
8:2:585:ILE:O	8:2:585:ILE:HG22	2.18	0.42
8:2:803:PHE:HE1	11:5:560:HIS:HD1	1.64	0.42
10:4:243:LEU:CD1	10:4:305:PRO:HB3	2.40	0.42
10:4:253:GLN:O	10:4:254:THR:OG1	2.20	0.42
10:4:261:LEU:HD21	10:4:325:LEU:CD1	2.48	0.42
10:4:515:ARG:HG2	10:4:517:ASP:OD1	2.20	0.42
10:4:804:LEU:HD23	10:4:804:LEU:C	2.40	0.42
11:5:183:CYS:SG	11:5:186:CYS:N	2.69	0.42
11:5:254:GLN:CB	11:5:283:THR:HG22	2.47	0.42
11:5:379:PHE:CG	11:5:568:ILE:HB	2.54	0.42
11:5:418:PRO:HA	14:5:801:ATP:O3G	2.19	0.42
11:5:572:VAL:HG12	11:5:576:HIS:HE1	1.85	0.42
12:6:313:MET:HA	12:6:314:CYS:HA	1.83	0.42
12:6:412:LEU:HB3	12:6:416:LYS:HZ1	1.83	0.42
12:6:623:ILE:N	12:6:623:ILE:HD12	2.35	0.42
12:6:830:LEU:HD23	12:6:830:LEU:C	2.39	0.42
13:7:517:ASP:HA	13:7:561:THR:N	2.34	0.42
1:A:65:ASP:OD2	1:A:67:VAL:HB	2.19	0.42
2:B:75:ILE:O	2:B:78:LEU:HB3	2.20	0.42
2:B:182:ARG:HB2	4:D:229:PHE:HE2	1.83	0.42
3:C:25:PRO:HG3	3:C:37:PRO:HB3	2.02	0.42
4:D:188:LEU:HD23	4:D:188:LEU:C	2.39	0.42
4:D:232:VAL:HB	4:D:270:THR:O	2.19	0.42
4:D:271:ILE:HD12	4:D:271:ILE:C	2.39	0.42
5:E:15:ILE:CD1	5:E:80:SER:CB	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:28:VAL:HG13	5:E:57:GLN:HB3	2.01	0.42
8:2:498:ILE:HA	8:2:501:MET:HB2	2.01	0.42
8:2:588:GLU:O	8:2:589:TRP:HB3	2.20	0.42
8:2:609:PHE:HA	8:2:612:MET:CG	2.48	0.42
8:2:695:LEU:O	8:2:698:PHE:HB3	2.19	0.42
8:2:763:LEU:O	8:2:766:TYR:HB3	2.19	0.42
8:2:794:ARG:HA	8:2:805:ILE:HG12	2.01	0.42
8:2:805:ILE:N	8:2:805:ILE:HD12	2.34	0.42
10:4:370:ARG:CA	10:4:371:CYS:HB2	2.49	0.42
11:5:622:LEU:HD11	11:5:677:VAL:CG1	2.50	0.42
12:6:563:ILE:H	12:6:563:ILE:CD1	2.28	0.42
12:6:571:ILE:HG12	12:6:713:PHE:CE2	2.55	0.42
12:6:695:LEU:CD2	12:6:706:MET:HE3	2.50	0.42
13:7:262:CYS:HB3	13:7:266:GLY:O	2.19	0.42
13:7:394:THR:O	13:7:394:THR:HG22	2.20	0.42
13:7:479:ARG:HG3	13:7:519:GLY:HA3	2.00	0.42
1:A:171:ALA:HA	1:A:172:GLY:HA3	1.57	0.42
1:A:202:GLN:HG2	1:A:204:TYR:CE2	2.52	0.42
2:B:52:LEU:HD23	4:D:128:CYS:SG	2.59	0.42
2:B:110:ASP:O	2:B:155:LYS:HD3	2.19	0.42
2:B:156:VAL:O	2:B:160:LEU:HB2	2.20	0.42
4:D:168:LEU:HD11	4:D:171:LEU:HD11	2.01	0.42
4:D:184:ASP:O	4:D:188:LEU:N	2.44	0.42
5:E:278:THR:HA	5:E:281:ASP:CG	2.39	0.42
5:E:549:GLY:O	5:E:553:ILE:HG22	2.20	0.42
5:E:558:GLU:H	5:E:560:GLU:HB3	1.85	0.42
5:E:638:SER:HB3	5:E:639:PRO:CD	2.50	0.42
9:3:214:TYR:OH	9:3:232:PRO:HD3	2.19	0.42
9:3:292:VAL:HG13	9:3:327:TYR:C	2.39	0.42
9:3:375:ASP:HA	9:3:378:LYS:HG2	2.02	0.42
9:3:376:HIS:HB3	9:3:732:LEU:HD22	2.02	0.42
9:3:656:LEU:HD23	9:3:656:LEU:C	2.40	0.42
9:3:679:ILE:HA	9:3:682:ASN:CB	2.49	0.42
10:4:243:LEU:HD12	10:4:303:VAL:HG11	2.02	0.42
10:4:346:PHE:O	10:4:384:LEU:HG	2.20	0.42
10:4:388:ARG:CZ	12:6:176:ARG:HD2	2.49	0.42
10:4:518:LEU:HD23	10:4:518:LEU:C	2.39	0.42
10:4:826:VAL:O	10:4:830:ARG:N	2.46	0.42
11:5:91:GLU:OE2	11:5:137:LEU:HG	2.20	0.42
11:5:482:PHE:CD1	11:5:485:MET:HE2	2.55	0.42
11:5:502:ILE:CG2	11:5:504:ILE:HD11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:653:LEU:O	11:5:657:ILE:HG13	2.19	0.42
12:6:401:GLU:C	12:6:402:ILE:HG12	2.40	0.42
13:7:409:ASP:OD1	13:7:412:ASN:HB3	2.19	0.42
1:A:5:LEU:CD1	1:A:36:ILE:HD11	2.50	0.42
1:A:5:LEU:HD12	1:A:8:LYS:HG3	2.01	0.42
1:A:32:TYR:CE1	1:A:89:TYR:HE2	2.37	0.42
1:A:165:VAL:HA	1:A:207:LYS:O	2.19	0.42
1:A:166:ARG:HA	1:A:187:SER:O	2.20	0.42
4:D:76:LEU:HD11	4:D:147:ARG:NE	2.32	0.42
5:E:369:PRO:O	5:E:372:THR:HB	2.20	0.42
5:E:558:GLU:N	5:E:558:GLU:OE1	2.52	0.42
8:2:212:LYS:CD	8:2:215:LEU:HD22	2.49	0.42
8:2:227:TYR:O	8:2:231:ILE:HG13	2.20	0.42
8:2:606:ILE:HG22	8:2:609:PHE:CE1	2.54	0.42
8:2:759:PRO:HG2	8:2:762:LEU:HD12	2.01	0.42
9:3:95:ARG:CB	9:3:154:LYS:HB2	2.41	0.42
9:3:472:ILE:N	9:3:513:ILE:O	2.53	0.42
10:4:538:LYS:O	10:4:541:LEU:HB3	2.19	0.42
10:4:540:ILE:CD1	10:4:577:ILE:HG21	2.49	0.42
10:4:649:MET:HE3	10:4:701:ARG:HG2	1.97	0.42
10:4:859:ARG:HH22	12:6:693:LEU:HD21	1.85	0.42
11:5:36:LEU:HA	11:5:47:ARG:HD2	2.02	0.42
11:5:179:LEU:HD13	11:5:181:ILE:CG1	2.46	0.42
11:5:337:VAL:HA	11:5:338:GLU:C	2.39	0.42
11:5:409:ASP:CB	11:5:518:SER:HB3	2.50	0.42
11:5:412:VAL:HB	11:5:520:LEU:CD1	2.50	0.42
11:5:415:LEU:HD12	11:5:415:LEU:O	2.19	0.42
11:5:467:GLY:C	11:5:471:LEU:HG	2.40	0.42
11:5:494:HIS:ND1	11:5:549:ARG:HD2	2.34	0.42
12:6:152:TYR:HD1	12:6:266:SER:OG	2.02	0.42
12:6:280:ARG:HB3	12:6:282:GLU:OE1	2.20	0.42
12:6:773:LEU:O	12:6:776:LYS:HB3	2.19	0.42
13:7:67:LEU:HD21	13:7:125:MET:CA	2.49	0.42
13:7:364:LYS:O	13:7:366:LEU:N	2.52	0.42
13:7:370:LEU:O	13:7:371:LEU:HB3	2.20	0.42
13:7:500:ASP:HA	13:7:501:PRO:HD2	1.89	0.42
13:7:636:SER:CB	13:7:639:ARG:HH21	2.32	0.42
1:A:9:LEU:HD23	1:A:9:LEU:C	2.40	0.42
1:A:27:VAL:HG22	1:A:28:ASN:N	2.35	0.42
2:B:74:TRP:O	2:B:77:LEU:HB3	2.20	0.42
4:D:230:ILE:HA	4:D:293:LEU:CA	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:27:LEU:HD13	5:E:56:SER:HB2	2.01	0.42
5:E:256:TYR:HA	5:E:259:LEU:CB	2.49	0.42
5:E:379:TYR:OH	11:5:66:GLU:HG2	2.20	0.42
5:E:493:ASN:CA	5:E:496:ILE:HB	2.43	0.42
5:E:503:GLN:N	5:E:506:ILE:HD12	2.35	0.42
5:E:525:TYR:CE1	5:E:527:LEU:HD12	2.55	0.42
5:E:542:PRO:O	5:E:546:LEU:HB2	2.20	0.42
8:2:272:ASP:O	8:2:275:ALA:HB3	2.19	0.42
8:2:604:CYS:O	8:2:647:ILE:HB	2.20	0.42
8:2:671:GLU:N	8:2:672:PRO:HD2	2.35	0.42
8:2:810:LEU:HD23	8:2:810:LEU:O	2.20	0.42
9:3:24:ARG:HD3	9:3:121:PHE:CD1	2.52	0.42
9:3:52:ASN:HB3	9:3:56:TYR:CE2	2.54	0.42
9:3:129:LEU:HD13	9:3:153:TRP:O	2.19	0.42
9:3:234:GLU:CD	9:3:240:LYS:HA	2.40	0.42
9:3:259:GLN:HG2	9:3:260:GLU:N	2.33	0.42
9:3:261:MET:SD	9:3:262:PRO:HD2	2.59	0.42
9:3:704:THR:O	9:3:707:ARG:N	2.53	0.42
10:4:677:PRO:HG2	10:4:680:SER:O	2.20	0.42
11:5:180:SER:OG	11:5:244:ILE:HB	2.19	0.42
11:5:373:SER:CB	11:5:594:ILE:HD13	2.43	0.42
11:5:378:ILE:HD12	11:5:378:ILE:H	1.85	0.42
11:5:416:GLY:H	11:5:525:PRO:HD3	1.84	0.42
11:5:536:PRO:HD3	11:5:643:ARG:HD3	2.01	0.42
12:6:162:GLU:CG	12:6:166:LEU:H	2.33	0.42
12:6:273:VAL:HG22	12:6:289:SER:OG	2.19	0.42
12:6:275:ARG:O	12:6:278:ASP:HB3	2.19	0.42
12:6:616:GLU:CB	12:6:617:GLU:C	2.88	0.42
12:6:751:LEU:O	12:6:751:LEU:HD23	2.20	0.42
13:7:73:ARG:HD2	13:7:199:ARG:NH1	2.34	0.42
13:7:135:LYS:HA	13:7:136:ASP:C	2.39	0.42
13:7:457:CYS:HA	13:7:565:ALA:O	2.20	0.42
13:7:523:ILE:HD12	13:7:565:ALA:HB2	2.02	0.42
13:7:639:ARG:HA	13:7:642:ILE:CD1	2.50	0.42
1:A:84:ARG:NH1	4:D:217:ASN:HD22	2.18	0.42
2:B:12:SER:H	2:B:15:GLU:CD	2.23	0.42
2:B:50:TRP:HB2	2:B:51:GLN:HA	2.01	0.42
2:B:115:LEU:HD11	2:B:152:ARG:CZ	2.49	0.42
2:B:157:LEU:HA	2:B:160:LEU:HB2	2.02	0.42
3:C:89:LYS:HB2	9:3:104:ARG:HH11	1.83	0.42
4:D:132:GLU:HG2	4:D:135:ARG:NH1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:170:SER:HB3	4:D:175:LEU:CD2	2.48	0.42
4:D:172:THR:HG21	4:D:177:LYS:HZ3	1.81	0.42
4:D:209:ILE:O	4:D:210:ASN:HB3	2.18	0.42
4:D:252:GLY:HA2	4:D:253:LYS:C	2.40	0.42
5:E:12:TYR:O	5:E:16:LEU:HG	2.19	0.42
5:E:149:ASP:N	5:E:150:ASP:CA	2.67	0.42
5:E:165:LEU:C	5:E:165:LEU:HD12	2.39	0.42
5:E:234:GLU:O	5:E:238:GLU:N	2.53	0.42
5:E:303:THR:HA	5:E:304:PRO:HD2	1.90	0.42
5:E:324:TYR:CD1	5:E:404:ILE:HG22	2.54	0.42
5:E:607:MET:O	5:E:610:GLN:HB2	2.20	0.42
8:2:388:VAL:HB	8:2:408:VAL:CG1	2.48	0.42
8:2:508:HIS:O	8:2:511:ILE:HG22	2.19	0.42
8:2:512:LYS:HA	8:2:515:VAL:CG2	2.50	0.42
8:2:769:TYR:OH	8:2:773:LYS:HE2	2.19	0.42
8:2:776:PRO:HD2	8:2:822:LYS:CE	2.47	0.42
9:3:43:ARG:HB2	9:3:136:MET:HE2	2.01	0.42
9:3:198:ARG:CB	9:3:249:THR:HG23	2.42	0.42
9:3:317:PHE:HB2	11:5:174:SER:OG	2.18	0.42
9:3:348:ARG:HA	9:3:351:ASN:HB2	2.02	0.42
9:3:711:ALA:O	9:3:714:LYS:HB2	2.20	0.42
11:5:28:ILE:HG21	11:5:96:GLN:NE2	2.27	0.42
11:5:393:MET:HB3	11:5:665:LYS:HD3	2.02	0.42
11:5:428:PHE:CE2	11:5:432:VAL:CG2	3.01	0.42
12:6:108:GLY:HA3	12:6:180:PHE:CD2	2.55	0.42
13:7:94:LEU:N	13:7:95:GLN:HB2	2.35	0.42
13:7:314:LYS:HD2	13:7:330:SER:HB2	2.02	0.42
13:7:414:LEU:HA	13:7:417:SER:CB	2.49	0.42
13:7:426:LEU:HD23	13:7:426:LEU:C	2.40	0.42
1:A:31:MET:O	1:A:93:ARG:NH1	2.53	0.42
1:A:60:LEU:N	1:A:60:LEU:HD12	2.35	0.42
3:C:19:LYS:HB3	3:C:43:LYS:HA	2.01	0.42
5:E:95:PHE:O	5:E:96:LEU:HD23	2.20	0.42
5:E:283:ALA:HB2	5:E:587:ARG:HH12	1.85	0.42
8:2:212:LYS:HD2	8:2:215:LEU:CD2	2.49	0.42
8:2:309:LEU:H	8:2:310:ARG:NH1	2.17	0.42
8:2:760:GLN:HA	8:2:763:LEU:CD2	2.49	0.42
8:2:774:ILE:HG23	8:2:822:LYS:HG2	2.02	0.42
8:2:777:LYS:O	8:2:828:PHE:HB2	2.19	0.42
8:2:778:LEU:C	8:2:778:LEU:HD12	2.40	0.42
8:2:795:ARG:HG3	8:2:796:GLU:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:858:ARG:HA	8:2:861:PHE:CD2	2.55	0.42
9:3:33:ASP:HB2	9:3:39:ARG:NH1	2.35	0.42
9:3:260:GLU:CD	9:3:272:ARG:H	2.24	0.42
9:3:287:LYS:HG3	9:3:290:ASP:OD1	2.20	0.42
9:3:406:LEU:HB3	9:3:546:LEU:CD2	2.50	0.42
10:4:333:LEU:HD11	10:4:400:GLN:CB	2.35	0.42
11:5:370:LEU:HD12	11:5:594:ILE:CD1	2.47	0.42
11:5:382:GLU:O	11:5:386:LYS:HG3	2.20	0.42
11:5:385:LYS:HA	11:5:388:ILE:HD12	2.01	0.42
12:6:579:THR:O	12:6:579:THR:HG22	2.20	0.42
12:6:803:MET:HE3	12:6:828:TYR:HA	2.00	0.42
13:7:1:MET:HG2	13:7:2:SER:N	2.34	0.42
1:A:49:LYS:O	1:A:52:GLU:HG2	2.19	0.41
2:B:141:LEU:HA	2:B:144:LYS:HB2	2.01	0.41
2:B:178:ILE:HA	2:B:181:LEU:CG	2.50	0.41
3:C:135:LEU:CD2	3:C:165:PHE:HE2	2.33	0.41
4:D:219:ILE:HG22	4:D:220:ASP:N	2.35	0.41
5:E:34:LEU:HD11	5:E:543:LEU:CD2	2.49	0.41
5:E:47:LEU:HD23	5:E:47:LEU:C	2.41	0.41
5:E:148:VAL:HG13	5:E:150:ASP:CG	2.40	0.41
5:E:543:LEU:HA	5:E:546:LEU:CB	2.44	0.41
8:2:234:LEU:HD12	8:2:234:LEU:O	2.20	0.41
8:2:343:LYS:H	8:2:371:GLY:CA	2.33	0.41
8:2:435:ASP:HA	8:2:436:GLY:HA3	1.83	0.41
8:2:585:ILE:HG23	8:2:586:THR:HG23	2.02	0.41
8:2:639:THR:CA	11:5:445:SER:HB3	2.38	0.41
9:3:42:VAL:HA	9:3:45:ILE:HG12	2.02	0.41
9:3:379:LYS:O	9:3:383:LEU:HG	2.19	0.41
10:4:565:LEU:C	10:4:565:LEU:HD23	2.40	0.41
10:4:714:GLU:CD	13:7:665:ILE:HG21	2.39	0.41
10:4:777:MET:HB3	10:4:793:ALA:CB	2.50	0.41
11:5:390:CYS:HB2	11:5:662:SER:CB	2.50	0.41
11:5:540:ILE:HG21	11:5:546:ILE:CB	2.50	0.41
11:5:577:THR:CA	11:5:579:ASN:H	2.33	0.41
12:6:178:LEU:N	12:6:179:PRO:CD	2.83	0.41
12:6:275:ARG:HB2	12:6:278:ASP:HB2	2.02	0.41
12:6:355:ASP:HB3	12:6:356:TRP:HB3	2.02	0.41
12:6:695:LEU:HD23	12:6:706:MET:HE3	2.01	0.41
13:7:383:GLN:N	13:7:386:LYS:HE2	2.34	0.41
13:7:529:MET:HE3	13:7:537:ILE:HD12	1.98	0.41
13:7:612:LEU:HD23	13:7:616:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:ASN:CB	1:A:110:MET:SD	3.07	0.41
1:A:147:VAL:HG21	1:A:149:ILE:CD1	2.33	0.41
2:B:138:ILE:HG13	2:B:139:HIS:CD2	2.55	0.41
3:C:170:GLU:HG2	3:C:171:GLU:N	2.35	0.41
5:E:494:ARG:HE	5:E:498:LEU:HD11	1.85	0.41
5:E:624:ASN:HB3	5:E:629:ILE:CG2	2.42	0.41
8:2:300:PHE:O	8:2:302:THR:OG1	2.13	0.41
8:2:674:LEU:O	8:2:677:PHE:HB2	2.20	0.41
8:2:760:GLN:CA	8:2:763:LEU:HG	2.43	0.41
8:2:807:VAL:HG23	8:2:808:ARG:N	2.35	0.41
9:3:237:GLU:O	9:3:239:ASN:N	2.52	0.41
9:3:403:ILE:CG2	9:3:405:ILE:HD11	2.46	0.41
9:3:434:GLY:N	9:3:473:ASP:O	2.34	0.41
9:3:477:LYS:HG3	11:5:491:VAL:CG1	2.50	0.41
9:3:718:SER:OG	9:3:720:THR:O	2.25	0.41
10:4:666:ASN:OD1	10:4:666:ASN:N	2.53	0.41
11:5:75:ILE:HA	11:5:78:LYS:CB	2.28	0.41
11:5:160:VAL:C	11:5:295:VAL:HG13	2.40	0.41
11:5:320:GLY:HA2	11:5:322:ALA:N	2.34	0.41
11:5:393:MET:HE2	11:5:606:CYS:HB3	2.02	0.41
11:5:456:ASP:HA	11:5:463:TYR:HE2	1.85	0.41
11:5:653:LEU:HD23	11:5:657:ILE:HD11	2.03	0.41
12:6:596:VAL:HG21	12:6:630:LEU:HD11	2.02	0.41
12:6:806:LEU:HD13	12:6:827:ALA:HB1	2.01	0.41
13:7:474:CYS:O	13:7:480:GLY:HA3	2.21	0.41
13:7:667:LEU:HA	13:7:670:ASP:OD1	2.20	0.41
2:B:84:LYS:HD3	4:D:124:LEU:HD21	2.01	0.41
2:B:94:THR:O	2:B:98:LEU:N	2.48	0.41
2:B:145:ILE:HD12	2:B:145:ILE:C	2.41	0.41
3:C:20:PHE:CD1	3:C:72:VAL:HG22	2.55	0.41
4:D:184:ASP:HA	4:D:187:SER:OG	2.20	0.41
4:D:200:LYS:H	4:D:201:TYR:HB2	1.85	0.41
5:E:43:LYS:HA	5:E:46:SER:CB	2.38	0.41
5:E:240:TYR:C	5:E:242:SER:H	2.23	0.41
5:E:428:LEU:HA	5:E:431:LEU:HD12	2.01	0.41
5:E:527:LEU:HD23	5:E:527:LEU:C	2.41	0.41
5:E:638:SER:N	5:E:639:PRO:HD2	2.35	0.41
8:2:314:LEU:HD12	8:2:314:LEU:C	2.40	0.41
8:2:314:LEU:HA	8:2:430:TYR:O	2.21	0.41
8:2:429:ILE:HD12	8:2:431:LYS:CE	2.44	0.41
8:2:476:TRP:HB3	8:2:765:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:704:VAL:CG1	12:6:766:THR:HG23	2.44	0.41
9:3:388:GLY:C	9:3:710:THR:HG21	2.41	0.41
9:3:541:SER:O	9:3:700:ARG:HD2	2.21	0.41
10:4:523:ALA:HA	10:4:526:ILE:HG13	2.02	0.41
11:5:477:VAL:CG1	11:5:519:VAL:HG13	2.51	0.41
11:5:623:SER:O	11:5:627:VAL:HG22	2.20	0.41
12:6:287:LEU:HD23	12:6:287:LEU:C	2.40	0.41
12:6:334:PRO:HA	12:6:335:ASN:C	2.40	0.41
12:6:529:LEU:HD23	12:6:746:PHE:CE2	2.56	0.41
12:6:548:LEU:O	12:6:551:MET:HB2	2.20	0.41
12:6:594:ARG:O	12:6:594:ARG:HG3	2.20	0.41
12:6:629:MET:O	12:6:632:ASP:HB2	2.21	0.41
12:6:663:ILE:O	12:6:664:ALA:HB2	2.20	0.41
12:6:695:LEU:CB	12:6:838:VAL:HA	2.49	0.41
13:7:287:GLU:HA	13:7:290:SER:HB3	2.02	0.41
1:A:22:ARG:HH22	11:5:355:GLU:CD	2.24	0.41
3:C:103:HIS:O	3:C:107:LEU:HD13	2.20	0.41
3:C:109:ILE:C	3:C:112:ILE:HG22	2.40	0.41
4:D:66:SER:HA	4:D:69:ASN:HB2	2.01	0.41
4:D:169:ILE:O	4:D:171:LEU:HG	2.19	0.41
4:D:182:TYR:HA	4:D:185:THR:HG1	1.85	0.41
4:D:256:TYR:HA	4:D:257:THR:HA	1.94	0.41
4:D:259:THR:HG21	4:D:268:GLU:HB3	2.01	0.41
5:E:22:HIS:HA	5:E:23:SER:C	2.41	0.41
5:E:131:LEU:HD13	5:E:237:LEU:HD11	2.01	0.41
5:E:139:ILE:HG13	5:E:140:ILE:HG23	2.02	0.41
5:E:238:GLU:O	5:E:242:SER:OG	2.39	0.41
5:E:288:TYR:O	5:E:291:LEU:N	2.53	0.41
5:E:293:PRO:CA	5:E:296:GLN:HB2	2.23	0.41
5:E:553:ILE:HG23	5:E:554:GLU:N	2.35	0.41
5:E:558:GLU:N	5:E:560:GLU:HB3	2.36	0.41
8:2:333:GLN:OE1	11:5:323:ILE:HD11	2.21	0.41
8:2:390:LEU:CB	8:2:408:VAL:HG21	2.50	0.41
8:2:541:LEU:CB	8:2:681:CYS:HB2	2.50	0.41
8:2:543:GLY:HA3	8:2:549:LYS:HZ2	1.83	0.41
8:2:551:GLN:NE2	12:6:563:ILE:HG21	2.36	0.41
8:2:565:PHE:HD1	8:2:605:LEU:CB	2.33	0.41
8:2:631:ILE:HA	11:5:442:LYS:CB	2.50	0.41
8:2:632:SER:HB3	11:5:486:ARG:HH22	1.84	0.41
9:3:118:PRO:HG3	9:3:297:VAL:HG22	2.02	0.41
9:3:254:GLN:OE1	9:3:284:ASP:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:202:LYS:HA	10:4:224:LEU:HA	2.02	0.41
10:4:346:PHE:H	10:4:389:CYS:HB3	1.86	0.41
10:4:441:SER:O	10:4:442:ILE:HD12	2.18	0.41
10:4:571:SER:OG	13:7:685:THR:HG21	2.20	0.41
10:4:699:LEU:C	10:4:699:LEU:HD23	2.40	0.41
10:4:728:TYR:O	13:7:442:LYS:NZ	2.37	0.41
11:5:444:SER:HA	11:5:445:SER:HA	1.59	0.41
12:6:284:ILE:HG13	12:6:401:GLU:OE1	2.20	0.41
12:6:416:LYS:CE	12:6:449:THR:HG21	2.51	0.41
12:6:603:SER:HB2	12:6:604:SER:C	2.40	0.41
12:6:711:LEU:CG	12:6:712:PHE:N	2.83	0.41
12:6:811:ALA:HB1	12:6:816:VAL:O	2.19	0.41
13:7:196:LEU:HD11	13:7:270:PHE:CD1	2.55	0.41
13:7:490:GLY:O	13:7:493:LEU:HG	2.20	0.41
1:A:17:LYS:HD3	3:C:6:ILE:HD13	2.01	0.41
1:A:134:TYR:O	1:A:137:LEU:HB3	2.20	0.41
1:A:137:LEU:HD23	1:A:137:LEU:C	2.41	0.41
4:D:199:LEU:HD22	4:D:202:MET:HG3	2.02	0.41
4:D:203:PRO:HB2	4:D:206:LEU:HB2	2.00	0.41
4:D:230:ILE:HB	4:D:291:VAL:CG2	2.51	0.41
5:E:29:ILE:HD11	5:E:58:ILE:CA	2.44	0.41
5:E:536:LEU:HD22	5:E:539:TYR:HD2	1.86	0.41
5:E:569:LEU:HG	5:E:584:LEU:CD1	2.51	0.41
5:E:626:GLU:CB	5:E:629:ILE:HG22	2.43	0.41
7:G:8:DG:H2'	7:G:9:DA:H8	1.83	0.41
8:2:268:LEU:HA	8:2:271:PHE:CB	2.27	0.41
8:2:580:VAL:CG1	8:2:592:GLU:H	2.31	0.41
9:3:118:PRO:O	9:3:122:ILE:HB	2.21	0.41
9:3:122:ILE:HD12	9:3:221:LEU:CD1	2.51	0.41
9:3:123:PRO:HG2	9:3:124:PRO:HD3	2.03	0.41
9:3:179:LEU:HA	9:3:297:VAL:N	2.34	0.41
9:3:211:TYR:CG	13:7:8:ILE:HD12	2.55	0.41
9:3:443:THR:HG22	9:3:459:ALA:N	2.34	0.41
9:3:470:VAL:HB	9:3:512:VAL:CA	2.49	0.41
9:3:488:GLU:OE2	9:3:496:THR:HG23	2.19	0.41
9:3:495:VAL:N	9:3:506:LEU:O	2.38	0.41
9:3:565:VAL:O	9:3:568:THR:HB	2.20	0.41
10:4:248:LEU:HD12	10:4:258:TYR:HA	2.03	0.41
10:4:313:GLY:HA2	10:4:403:PRO:CB	2.45	0.41
10:4:456:LEU:HD23	10:4:456:LEU:C	2.41	0.41
10:4:794:THR:O	10:4:797:GLN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:33:ASN:HA	11:5:37:GLU:HG2	2.02	0.41
11:5:364:PRO:HG2	11:5:365:LYS:CD	2.49	0.41
11:5:454:GLN:HB3	11:5:465:GLU:HB2	2.02	0.41
11:5:485:MET:HE3	11:5:490:ARG:CG	2.51	0.41
11:5:572:VAL:CG1	11:5:576:HIS:HE1	2.33	0.41
12:6:373:MET:CG	12:6:374:PRO:HD2	2.50	0.41
12:6:414:GLY:CA	12:6:416:LYS:HG3	2.50	0.41
12:6:637:CYS:C	12:6:638:ILE:HD12	2.41	0.41
13:7:214:ARG:HB3	13:7:215:TYR:O	2.21	0.41
13:7:327:ILE:HG22	13:7:328:PRO:O	2.19	0.41
13:7:404:LEU:HD13	13:7:633:VAL:HG21	2.01	0.41
13:7:639:ARG:HA	13:7:642:ILE:HG13	2.03	0.41
1:A:188:GLN:HG2	5:E:478:TRP:CH2	2.55	0.41
1:A:190:PHE:CD2	5:E:55:GLN:HA	2.31	0.41
2:B:80:LYS:C	2:B:83:SER:H	2.23	0.41
3:C:169:LEU:HD12	3:C:169:LEU:N	2.36	0.41
5:E:81:LEU:CB	5:E:120:ILE:HG13	2.41	0.41
5:E:145:ASP:HA	5:E:146:GLY:HA2	1.66	0.41
5:E:605:PHE:HA	5:E:608:ALA:CB	2.44	0.41
8:2:363:PHE:CB	8:2:368:LYS:CB	2.98	0.41
8:2:392:GLU:OE2	8:2:396:THR:OG1	2.23	0.41
8:2:550:SER:HB2	14:2:901:ATP:O3A	2.20	0.41
8:2:583:ASP:N	8:2:584:PRO:HD3	2.35	0.41
8:2:612:MET:SD	8:2:620:ILE:HD11	2.59	0.41
8:2:703:HIS:CD2	12:6:565:LEU:HD22	2.55	0.41
8:2:774:ILE:HG23	8:2:822:LYS:CG	2.50	0.41
9:3:98:ILE:CG1	9:3:155:LEU:HD22	2.39	0.41
9:3:377:ILE:HA	9:3:547:PHE:CE2	2.54	0.41
9:3:408:VAL:HG23	9:3:516:ALA:O	2.21	0.41
9:3:699:ALA:O	9:3:702:LEU:HB3	2.21	0.41
10:4:546:GLY:HA3	10:4:562:ILE:CD1	2.50	0.41
10:4:601:LEU:HD23	10:4:621:LEU:CD1	2.48	0.41
10:4:726:ASN:O	10:4:727:LEU:HG	2.20	0.41
10:4:859:ARG:NH2	12:6:693:LEU:HD21	2.36	0.41
11:5:27:ILE:HG22	11:5:31:PHE:CE2	2.55	0.41
11:5:167:ILE:HD11	11:5:273:ASN:HB3	2.02	0.41
12:6:403:VAL:HG11	12:6:450:TYR:HB3	2.03	0.41
12:6:528:LYS:HE2	12:6:531:ARG:NH2	2.36	0.41
12:6:767:LYS:O	12:6:770:ARG:HG2	2.20	0.41
13:7:309:ALA:O	13:7:336:ASN:HA	2.21	0.41
13:7:368:ALA:HA	13:7:369:GLY:HA2	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:580:PRO:HG2	13:7:679:PHE:O	2.21	0.41
1:A:71:GLN:OE1	1:A:71:GLN:N	2.38	0.41
1:A:107:LEU:CD2	1:A:153:GLY:CA	2.97	0.41
1:A:137:LEU:O	1:A:140:ASP:HB2	2.20	0.41
1:A:175:GLN:HG3	1:A:181:PHE:HB2	2.03	0.41
2:B:157:LEU:HD23	2:B:157:LEU:C	2.41	0.41
2:B:197:THR:HG22	4:D:263:LEU:HD23	2.01	0.41
3:C:27:LEU:HG	3:C:38:ILE:CG1	2.51	0.41
4:D:64:MET:HA	4:D:67:TRP:HB3	2.03	0.41
5:E:81:LEU:HD12	5:E:120:ILE:CG2	2.49	0.41
5:E:324:TYR:HE1	5:E:405:ILE:HG13	1.80	0.41
5:E:356:LYS:O	5:E:360:HIS:ND1	2.50	0.41
5:E:572:ILE:HD11	5:E:578:THR:H	1.85	0.41
8:2:338:LYS:HZ2	8:2:347:ILE:CG2	2.34	0.41
8:2:534:ARG:CZ	8:2:534:ARG:HB3	2.51	0.41
9:3:123:PRO:HA	9:3:126:GLU:OE1	2.20	0.41
9:3:169:ARG:HE	9:3:266:PRO:HG3	1.86	0.41
9:3:179:LEU:HG	9:3:296:GLY:CA	2.49	0.41
9:3:259:GLN:HG2	9:3:260:GLU:O	2.20	0.41
9:3:410:ASP:CB	9:3:551:ASP:HB2	2.39	0.41
9:3:431:ALA:CB	9:3:471:CYS:HB2	2.51	0.41
9:3:513:ILE:HG22	9:3:514:ALA:N	2.36	0.41
10:4:188:GLN:CA	10:4:191:THR:HG22	2.50	0.41
10:4:193:ASN:HD21	10:4:254:THR:H	1.67	0.41
10:4:344:VAL:HA	10:4:359:GLU:CA	2.40	0.41
10:4:631:ILE:HG23	10:4:637:MET:HE2	2.03	0.41
10:4:655:SER:HB3	10:4:664:THR:HG22	2.03	0.41
10:4:686:LEU:CG	10:4:687:PRO:HD2	2.50	0.41
11:5:153:SER:HA	11:5:298:TYR:HE2	1.86	0.41
11:5:235:ASN:HA	11:5:236:CYS:HA	1.64	0.41
11:5:391:LEU:HD12	11:5:410:ILE:HD11	2.03	0.41
11:5:413:LEU:HD21	11:5:550:PHE:CE2	2.55	0.41
12:6:108:GLY:HA3	12:6:180:PHE:HE2	1.81	0.41
12:6:158:LEU:HD22	12:6:170:ILE:HD11	2.01	0.41
12:6:328:THR:HA	12:6:329:GLU:HA	1.83	0.41
12:6:638:ILE:CG2	12:6:639:ASP:N	2.82	0.41
12:6:778:LYS:HG2	12:6:782:LYS:HZ3	1.84	0.41
13:7:21:ILE:O	13:7:25:LEU:N	2.36	0.41
13:7:82:LEU:HG	13:7:206:PRO:HA	2.03	0.41
13:7:86:LEU:HD23	13:7:90:ASN:ND2	2.35	0.41
13:7:231:LYS:HG3	13:7:232:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:318:LEU:O	13:7:319:SER:OG	2.22	0.41
13:7:354:ILE:C	13:7:354:ILE:HD12	2.41	0.41
13:7:464:VAL:O	13:7:465:ALA:HB3	2.21	0.41
13:7:520:ILE:HD12	13:7:520:ILE:H	1.86	0.41
13:7:694:ARG:O	13:7:697:GLN:HB3	2.21	0.41
1:A:145:ASP:CA	1:A:146:LEU:CB	2.95	0.41
2:B:107:THR:HG23	2:B:108:HIS:CE1	2.56	0.41
2:B:178:ILE:O	2:B:181:LEU:HG	2.21	0.41
3:C:166:LEU:C	3:C:169:LEU:HD13	2.41	0.41
4:D:227:PHE:HD1	4:D:277:MET:CA	2.25	0.41
5:E:96:LEU:HB2	5:E:98:ILE:HD13	2.00	0.41
5:E:98:ILE:N	5:E:99:ASP:CB	2.76	0.41
5:E:150:ASP:HB3	5:E:151:THR:HA	2.02	0.41
5:E:162:LEU:CD1	5:E:163:LEU:HD22	2.50	0.41
5:E:410:VAL:HG22	5:E:420:SER:HA	2.03	0.41
5:E:469:LEU:C	5:E:469:LEU:HD23	2.41	0.41
5:E:612:ILE:O	5:E:615:GLU:HB3	2.20	0.41
5:E:621:ARG:HB3	5:E:623:ASP:CG	2.41	0.41
8:2:778:LEU:HB2	8:2:783:MET:CE	2.50	0.41
9:3:171:LEU:HD23	9:3:172:THR:HG23	2.02	0.41
9:3:419:LEU:HD12	9:3:473:ASP:OD1	2.20	0.41
10:4:187:ILE:C	10:4:188:GLN:HG3	2.40	0.41
10:4:291:TYR:CB	10:4:296:ILE:HG12	2.40	0.41
10:4:433:ILE:HG22	10:4:434:GLU:N	2.36	0.41
10:4:453:LEU:HD12	13:7:278:PHE:CZ	2.56	0.41
10:4:465:HIS:CG	10:4:466:VAL:N	2.89	0.41
11:5:25:THR:O	11:5:26:GLU:HB2	2.20	0.41
11:5:440:SER:N	11:5:444:SER:OG	2.51	0.41
11:5:623:SER:O	11:5:627:VAL:HG13	2.21	0.41
12:6:112:ARG:HH12	12:6:183:LYS:HB3	1.86	0.41
12:6:767:LYS:HZ1	12:6:821:PRO:CD	2.34	0.41
12:6:806:LEU:HD11	12:6:831:LEU:HD11	2.02	0.41
13:7:208:SER:CA	13:7:209:GLN:HB2	2.50	0.41
13:7:234:PHE:O	13:7:237:GLN:HB2	2.21	0.41
13:7:312:GLU:HA	13:7:334:HIS:HA	2.03	0.41
13:7:612:LEU:HD23	13:7:612:LEU:C	2.41	0.41
1:A:16:THR:CA	1:A:19:LEU:HD12	2.46	0.41
1:A:44:VAL:HG23	1:A:79:MET:CE	2.50	0.41
1:A:59:GLN:C	1:A:60:LEU:HD12	2.41	0.41
1:A:78:CYS:HA	1:A:81:ARG:CB	2.40	0.41
1:A:100:MET:HE1	1:A:117:GLN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:ASP:HA	1:A:189:PHE:O	2.20	0.41
1:A:165:VAL:HG13	1:A:206:GLN:N	2.33	0.41
2:B:64:VAL:HG21	2:B:67:ARG:NH1	2.36	0.41
2:B:108:HIS:CD2	2:B:111:ARG:HH21	2.38	0.41
3:C:11:ALA:CB	3:C:110:LYS:HE2	2.51	0.41
4:D:128:CYS:O	4:D:131:THR:HB	2.21	0.41
4:D:143:TYR:OH	4:D:147:ARG:NH1	2.54	0.41
5:E:30:PHE:CE2	5:E:81:LEU:HD21	2.56	0.41
5:E:30:PHE:HD1	5:E:61:ILE:CD1	2.33	0.41
5:E:34:LEU:C	5:E:34:LEU:HD13	2.41	0.41
5:E:71:TYR:CE2	5:E:96:LEU:HB3	2.55	0.41
5:E:318:LEU:HA	5:E:412:THR:HG23	2.03	0.41
5:E:429:THR:HA	5:E:432:LEU:CD1	2.51	0.41
5:E:505:ALA:O	5:E:508:ASN:HB3	2.20	0.41
5:E:525:TYR:CE1	5:E:568:VAL:HG21	2.52	0.41
6:F:21:DT:H5 ⁷	11:5:506:LYS:CE	2.50	0.41
6:F:23:DT:OP2	6:F:23:DT:H6	2.04	0.41
8:2:261:ALA:O	8:2:316:SER:HB2	2.20	0.41
8:2:296:ARG:HE	8:2:414:LEU:HD21	1.85	0.41
8:2:314:LEU:HA	8:2:430:TYR:HD2	1.86	0.41
8:2:388:VAL:HG12	8:2:389:THR:N	2.36	0.41
8:2:446:VAL:HG22	12:6:302:PRO:O	2.20	0.41
8:2:582:LYS:HZ2	8:2:582:LYS:HG2	1.71	0.41
8:2:606:ILE:CG2	8:2:609:PHE:CE1	3.04	0.41
8:2:608:GLU:HA	8:2:650:ALA:CB	2.51	0.41
8:2:693:GLU:O	8:2:697:THR:OG1	2.18	0.41
8:2:820:PHE:O	8:2:824:ARG:N	2.54	0.41
8:2:849:GLN:HB2	8:2:853:VAL:CB	2.49	0.41
9:3:158:LYS:CA	9:3:327:TYR:CE2	2.95	0.41
9:3:177:ASN:ND2	11:5:246:GLU:HA	2.36	0.41
9:3:179:LEU:HB2	9:3:297:VAL:CG2	2.51	0.41
9:3:189:THR:CA	9:3:256:ILE:HG22	2.47	0.41
9:3:190:SER:CB	9:3:255:ARG:HG3	2.50	0.41
9:3:191:LEU:CB	9:3:456:ARG:HE	2.34	0.41
9:3:279:ASP:H	9:3:282:LEU:HB2	1.86	0.41
9:3:470:VAL:HB	9:3:512:VAL:CB	2.50	0.41
9:3:530:HIS:C	9:3:532:ASN:H	2.23	0.41
9:3:695:SER:CB	9:3:696:PRO:HA	2.42	0.41
10:4:269:ILE:HG22	10:4:273:ASP:OD2	2.20	0.41
10:4:365:ILE:HD11	12:6:448:LEU:HD21	2.02	0.41
10:4:444:ILE:HD12	10:4:444:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:455:SER:HB2	13:7:276:ARG:C	2.41	0.41
10:4:559:ARG:CZ	10:4:668:ARG:HB2	2.50	0.41
10:4:594:LYS:HD3	10:4:636:LYS:O	2.20	0.41
10:4:672:LEU:HD23	10:4:672:LEU:C	2.41	0.41
10:4:909:ARG:NH2	12:6:698:ASN:HA	2.36	0.41
11:5:87:ILE:HB	11:5:88:PRO:CD	2.51	0.41
11:5:426:LEU:HA	11:5:429:VAL:HB	2.02	0.41
11:5:649:THR:H	11:5:652:GLN:CG	2.34	0.41
12:6:122:PHE:HB2	12:6:134:LYS:O	2.20	0.41
12:6:166:LEU:O	12:6:166:LEU:HD23	2.20	0.41
12:6:360:ARG:HG3	12:6:377:LEU:C	2.41	0.41
12:6:537:VAL:HG21	12:6:584:PHE:CE1	2.56	0.41
12:6:537:VAL:HG12	12:6:538:PHE:N	2.35	0.41
12:6:546:GLY:HA2	12:6:549:LEU:CG	2.50	0.41
12:6:550:GLN:HE21	12:6:570:ASN:HA	1.85	0.41
12:6:569:ILE:HD13	12:6:805:ARG:CD	2.51	0.41
12:6:586:LYS:HA	12:6:589:VAL:HG11	2.01	0.41
12:6:726:GLU:HA	12:6:729:SER:OG	2.21	0.41
12:6:773:LEU:CD2	12:6:800:LEU:HD11	2.45	0.41
13:7:95:GLN:OE1	13:7:95:GLN:N	2.54	0.41
13:7:203:TYR:OH	13:7:338:THR:N	2.54	0.41
13:7:245:ILE:HG22	13:7:246:THR:N	2.36	0.41
13:7:260:TYR:CE2	13:7:281:LEU:HG	2.56	0.41
13:7:290:SER:O	13:7:291:GLN:HG2	2.20	0.41
13:7:306:LYS:HG2	13:7:307:PHE:N	2.36	0.41
13:7:362:GLY:HA3	13:7:364:LYS:H	1.84	0.41
1:A:89:TYR:O	1:A:93:ARG:HB2	2.20	0.41
1:A:139:THR:HA	1:A:142:LYS:HZ3	1.86	0.41
1:A:147:VAL:HB	1:A:148:ASP:C	2.41	0.41
1:A:165:VAL:O	1:A:189:PHE:N	2.49	0.41
2:B:16:ILE:O	2:B:19:ILE:HB	2.21	0.41
3:C:72:VAL:HG12	3:C:74:LEU:N	2.35	0.41
4:D:293:LEU:HD12	4:D:293:LEU:N	2.36	0.41
5:E:30:PHE:CD1	5:E:61:ILE:HD11	2.56	0.41
5:E:78:ILE:HD12	5:E:78:ILE:N	2.34	0.41
5:E:83:LEU:N	5:E:121:TYR:O	2.37	0.41
5:E:244:GLY:O	5:E:602:LEU:HD23	2.21	0.41
5:E:333:SER:HB2	5:E:373:ALA:O	2.21	0.41
5:E:366:MET:SD	5:E:368:ILE:HD12	2.61	0.41
5:E:396:LEU:HB3	5:E:401:LEU:HB2	2.03	0.41
5:E:416:ARG:NH2	11:5:40:LEU:HD13	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:427:ALA:HB3	5:E:492:LEU:HD11	2.03	0.41
5:E:503:GLN:CA	5:E:506:ILE:HB	2.27	0.41
5:E:512:ALA:O	5:E:516:LYS:NZ	2.45	0.41
6:F:6:DT:H2'	6:F:7:DC:C6	2.56	0.41
8:2:229:ALA:O	8:2:233:THR:HG23	2.20	0.41
8:2:637:VAL:CG1	11:5:471:LEU:HD11	2.50	0.41
8:2:663:LEU:O	8:2:667:VAL:N	2.43	0.41
8:2:802:SER:HA	8:2:803:PHE:HA	1.82	0.41
8:2:830:SER:N	8:2:833:ASP:OD2	2.51	0.41
9:3:101:ASP:CG	9:3:104:ARG:HH21	2.23	0.41
9:3:130:THR:O	9:3:133:ALA:HB3	2.21	0.41
9:3:245:TYR:HD1	9:3:250:PHE:CZ	2.37	0.41
9:3:301:LEU:HA	11:5:245:HIS:NE2	2.36	0.41
9:3:383:LEU:HA	9:3:711:ALA:HB1	2.03	0.41
9:3:388:GLY:H	9:3:714:LYS:HZ2	1.68	0.41
9:3:390:GLU:CB	9:3:509:ARG:HH22	2.33	0.41
9:3:676:ILE:HG23	9:3:680:VAL:HG23	2.02	0.41
10:4:400:GLN:HA	10:4:414:SER:HA	2.02	0.41
10:4:456:LEU:HD11	13:7:252:LYS:HB2	2.02	0.41
10:4:560:GLY:O	10:4:562:ILE:HG23	2.21	0.41
10:4:567:CYS:O	10:4:708:VAL:N	2.34	0.41
10:4:602:THR:HA	10:4:619:GLY:CA	2.47	0.41
10:4:623:LEU:HD13	12:6:370:THR:OG1	2.21	0.41
10:4:713:ASP:HB2	10:4:716:ASN:HB3	2.02	0.41
11:5:319:SER:OG	11:5:323:ILE:O	2.34	0.41
11:5:572:VAL:O	11:5:576:HIS:ND1	2.51	0.41
12:6:115:PHE:CD2	12:6:119:LEU:HD23	2.56	0.41
12:6:274:HIS:O	12:6:290:ILE:HG23	2.20	0.41
13:7:148:LEU:HD23	13:7:148:LEU:C	2.41	0.41
13:7:228:ARG:HD3	13:7:329:ARG:CD	2.51	0.41
13:7:311:GLN:C	13:7:335:VAL:H	2.24	0.41
13:7:372:THR:C	13:7:374:THR:H	2.23	0.41
13:7:517:ASP:HB3	13:7:559:ALA:HA	2.02	0.41
1:A:108:ASP:N	1:A:109:LEU:C	2.74	0.40
1:A:117:GLN:O	1:A:120:THR:HG23	2.20	0.40
1:A:168:LEU:HD21	1:A:206:GLN:N	2.36	0.40
2:B:72:VAL:CG1	2:B:75:ILE:HG23	2.51	0.40
2:B:146:GLN:HG2	11:5:44:PHE:CZ	2.51	0.40
3:C:3:TYR:CE1	4:D:218:MET:HG3	2.56	0.40
4:D:58:GLN:HA	4:D:61:SER:CB	2.49	0.40
5:E:62:PHE:CE1	5:E:473:TRP:HE3	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:64:TYR:CB	5:E:625:PHE:HA	2.37	0.40
5:E:75:ASP:HB3	5:E:118:ARG:HH22	1.86	0.40
5:E:283:ALA:CB	5:E:587:ARG:HH12	2.34	0.40
5:E:525:TYR:HE1	5:E:527:LEU:HD12	1.85	0.40
8:2:419:LYS:NZ	8:2:598:LEU:HD12	2.36	0.40
8:2:501:MET:HE2	8:2:501:MET:HB2	1.81	0.40
8:2:534:ARG:HE	8:2:815:ARG:NH2	2.19	0.40
8:2:676:ARG:NH1	11:5:418:PRO:HB2	2.31	0.40
8:2:839:LYS:CE	8:2:864:TYR:HD1	2.34	0.40
14:2:901:ATP:PB	12:6:708:ARG:HH12	2.44	0.40
9:3:115:LEU:O	9:3:164:HIS:NE2	2.45	0.40
9:3:195:LYS:HA	13:7:372:THR:H	1.86	0.40
9:3:353:LEU:HG	9:3:359:ILE:HG21	2.03	0.40
10:4:187:ILE:HG22	10:4:188:GLN:HG3	2.02	0.40
10:4:236:LEU:CD1	10:4:236:LEU:H	2.35	0.40
10:4:352:CYS:H	10:4:354:HIS:N	2.18	0.40
10:4:505:ASP:O	10:4:508:LYS:HB3	2.20	0.40
10:4:695:PRO:HG2	10:4:698:LEU:HB2	2.00	0.40
11:5:236:CYS:SG	11:5:240:PRO:CG	3.09	0.40
11:5:303:SER:HB2	11:5:304:LYS:H	1.73	0.40
11:5:379:PHE:N	14:5:801:ATP:N1	2.64	0.40
11:5:410:ILE:HG13	11:5:411:ASN:N	2.36	0.40
11:5:487:ASP:O	11:5:490:ARG:HB3	2.21	0.40
11:5:514:ASN:CB	11:5:516:ARG:HH12	2.33	0.40
12:6:276:ILE:O	12:6:279:ILE:HB	2.21	0.40
12:6:531:ARG:HG3	12:6:745:PRO:HD3	2.01	0.40
12:6:541:GLU:O	12:6:544:LYS:N	2.48	0.40
12:6:555:VAL:O	12:6:557:LYS:HG3	2.21	0.40
12:6:663:ILE:CG2	12:6:664:ALA:N	2.83	0.40
12:6:727:LEU:O	12:6:731:ILE:HB	2.20	0.40
13:7:205:LYS:HA	13:7:206:PRO:HD2	1.96	0.40
13:7:463:GLY:O	13:7:464:VAL:HB	2.21	0.40
13:7:648:LYS:CE	13:7:704:LEU:HD22	2.51	0.40
1:A:17:LYS:CD	3:C:6:ILE:HD13	2.51	0.40
1:A:73:PHE:CE1	3:C:57:VAL:HG21	2.56	0.40
1:A:83:LYS:HG2	1:A:87:LEU:CD2	2.50	0.40
1:A:156:VAL:HG12	1:A:157:PRO:O	2.21	0.40
2:B:82:GLN:O	2:B:83:SER:OG	2.33	0.40
2:B:160:LEU:HD23	3:C:133:GLN:NE2	2.36	0.40
3:C:19:LYS:HG3	3:C:73:GLU:HB3	2.03	0.40
4:D:199:LEU:O	4:D:200:LYS:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:135:PHE:CE1	5:E:160:TYR:HE2	2.39	0.40
5:E:157:GLU:HA	5:E:161:LYS:CG	2.51	0.40
5:E:270:LEU:CD2	5:E:298:GLU:HB3	2.50	0.40
5:E:624:ASN:HD22	5:E:630:ILE:HA	1.86	0.40
5:E:634:ARG:HA	5:E:637:LEU:HD21	2.01	0.40
6:F:22:DT:H5''	6:F:22:DT:C6	2.45	0.40
8:2:305:SER:O	8:2:320:VAL:HG13	2.21	0.40
8:2:670:THR:HG22	8:2:673:ILE:CG2	2.51	0.40
8:2:794:ARG:O	8:2:797:SER:OG	2.40	0.40
9:3:95:ARG:NH2	9:3:282:LEU:HD11	2.35	0.40
9:3:179:LEU:HA	9:3:296:GLY:O	2.21	0.40
9:3:356:LYS:O	9:3:359:ILE:HG12	2.21	0.40
9:3:382:LEU:HA	9:3:385:LEU:CD1	2.52	0.40
9:3:403:ILE:HG23	9:3:544:ASP:OD2	2.21	0.40
9:3:520:PHE:CB	9:3:527:ARG:HH22	2.32	0.40
9:3:737:LEU:HB3	9:3:738:LEU:HD12	2.03	0.40
11:5:52:ASN:O	11:5:56:VAL:HG23	2.21	0.40
11:5:136:GLN:HG3	11:5:280:ARG:NH2	2.36	0.40
11:5:425:LEU:HD23	11:5:429:VAL:HG23	2.02	0.40
11:5:502:ILE:HB	11:5:513:LEU:HG	2.03	0.40
12:6:186:ARG:O	12:6:189:VAL:HB	2.20	0.40
12:6:546:GLY:O	12:6:550:GLN:N	2.47	0.40
12:6:596:VAL:HG21	12:6:630:LEU:CD1	2.51	0.40
12:6:731:ILE:O	12:6:734:LEU:HB2	2.21	0.40
13:7:238:LEU:HA	13:7:354:ILE:CA	2.41	0.40
13:7:459:MET:HE3	13:7:584:ILE:HG12	2.01	0.40
13:7:537:ILE:HA	13:7:540:VAL:CG2	2.51	0.40
1:A:107:LEU:HD23	1:A:201:GLN:HG3	2.02	0.40
1:A:134:TYR:HE1	4:D:186:HIS:ND1	2.20	0.40
2:B:21:GLU:O	2:B:73:LEU:HB3	2.22	0.40
2:B:149:ARG:HH21	3:C:191:MET:CE	2.34	0.40
4:D:133:LEU:HD22	4:D:134:GLU:CG	2.51	0.40
4:D:232:VAL:N	4:D:291:VAL:HG23	2.36	0.40
4:D:233:ASN:N	4:D:291:VAL:HA	2.29	0.40
5:E:15:ILE:O	5:E:19:SER:N	2.55	0.40
5:E:15:ILE:HD11	5:E:80:SER:HB2	2.03	0.40
5:E:71:TYR:CZ	5:E:96:LEU:HD13	2.57	0.40
5:E:138:GLN:HG3	5:E:139:ILE:N	2.36	0.40
5:E:577:ASP:CG	5:E:634:ARG:HG2	2.42	0.40
5:E:619:LYS:CD	5:E:633:ARG:HG3	2.51	0.40
5:E:637:LEU:HA	5:E:640:PHE:CB	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:9:DA:C2'	6:F:10:DT:H72	2.52	0.40
8:2:573:ALA:CB	12:6:670:ALA:H	2.34	0.40
8:2:699:VAL:O	8:2:702:SER:HB3	2.22	0.40
9:3:350:ILE:H	9:3:350:ILE:HD12	1.87	0.40
9:3:496:THR:HG22	9:3:505:THR:HG23	2.03	0.40
9:3:562:SER:CB	11:5:623:SER:HB2	2.50	0.40
9:3:684:THR:OG1	13:7:610:GLU:OE2	2.27	0.40
9:3:733:LEU:C	9:3:733:LEU:HD23	2.42	0.40
14:3:1001:ATP:H1'	11:5:650:ILE:HG13	2.04	0.40
10:4:190:CYS:O	10:4:194:PHE:N	2.52	0.40
10:4:319:PRO:O	10:4:322:ILE:HG12	2.22	0.40
10:4:393:ASP:OD1	12:6:281:SER:OG	2.27	0.40
10:4:455:SER:H	13:7:277:THR:HA	1.86	0.40
10:4:563:ASN:C	10:4:564:ILE:HD12	2.41	0.40
10:4:805:ALA:O	10:4:808:HIS:HB3	2.21	0.40
10:4:923:VAL:O	10:4:924:ARG:NH1	2.50	0.40
11:5:360:LEU:O	11:5:366:LEU:HD13	2.20	0.40
11:5:410:ILE:H	11:5:658:ARG:NH1	2.19	0.40
11:5:417:ASP:O	11:5:420:THR:OG1	2.26	0.40
11:5:485:MET:SD	11:5:490:ARG:HA	2.61	0.40
12:6:126:SER:O	12:6:132:VAL:HA	2.21	0.40
12:6:158:LEU:HD22	12:6:167:ALA:HB2	2.02	0.40
12:6:306:LYS:HZ3	12:6:321:VAL:HA	1.86	0.40
13:7:340:VAL:HG22	13:7:341:ARG:N	2.36	0.40
13:7:367:LYS:HG3	13:7:368:ALA:O	2.21	0.40
13:7:393:LEU:HB2	13:7:395:SER:CB	2.51	0.40
13:7:429:LYS:HA	13:7:432:LEU:CG	2.52	0.40
13:7:478:PRO:O	13:7:479:ARG:HB3	2.21	0.40
1:A:105:ASN:HA	1:A:106:GLY:HA3	1.62	0.40
1:A:107:LEU:CD2	1:A:153:GLY:HA3	2.48	0.40
1:A:139:THR:CA	1:A:142:LYS:HZ3	2.35	0.40
1:A:161:VAL:CG1	1:A:192:ARG:HB2	2.49	0.40
1:A:162:PHE:CD1	1:A:192:ARG:HB3	2.56	0.40
2:B:87:ILE:CG2	2:B:130:ALA:HB1	2.51	0.40
3:C:53:ILE:O	3:C:56:ILE:HB	2.22	0.40
4:D:220:ASP:HA	4:D:222:PRO:CD	2.40	0.40
5:E:159:TYR:HA	5:E:163:LEU:HD23	2.04	0.40
5:E:552:LEU:O	5:E:555:CYS:N	2.55	0.40
5:E:612:ILE:HA	5:E:615:GLU:HB3	2.02	0.40
5:E:613:THR:CB	5:E:622:ILE:HD11	2.52	0.40
8:2:216:LEU:HD12	8:2:217:GLU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:317:LEU:HD23	8:2:317:LEU:C	2.42	0.40
8:2:333:GLN:HB3	8:2:383:ARG:HG3	2.02	0.40
8:2:484:PHE:HE2	8:2:769:TYR:CD2	2.39	0.40
8:2:591:LEU:HD13	11:5:270:MET:HE1	2.03	0.40
9:3:195:LYS:HB3	9:3:251:ILE:O	2.22	0.40
9:3:415:LYS:NZ	9:3:516:ALA:O	2.54	0.40
9:3:421:PHE:HD1	11:5:402:ASP:OD2	2.04	0.40
9:3:658:LYS:HA	9:3:661:GLN:HG2	2.03	0.40
10:4:542:LEU:O	10:4:546:GLY:N	2.54	0.40
10:4:597:SER:O	10:4:601:LEU:HD13	2.22	0.40
10:4:830:ARG:HA	10:4:833:ILE:CD1	2.46	0.40
12:6:159:SER:HA	12:6:164:GLY:HA2	2.04	0.40
12:6:405:PRO:HA	12:6:450:TYR:HD1	1.86	0.40
12:6:566:ARG:HA	12:6:567:GLY:HA3	1.69	0.40
12:6:659:GLN:CG	12:6:675:ARG:HG2	2.51	0.40
12:6:806:LEU:HD11	12:6:831:LEU:HG	2.03	0.40
13:7:259:ALA:HB3	13:7:304:ALA:HB3	2.03	0.40
13:7:262:CYS:O	13:7:263:ASP:HB3	2.22	0.40
13:7:490:GLY:C	13:7:493:LEU:HG	2.42	0.40
13:7:539:GLU:O	13:7:542:GLU:HB3	2.21	0.40
13:7:540:VAL:O	13:7:543:GLN:HA	2.21	0.40
1:A:100:MET:CE	1:A:117:GLN:HG2	2.51	0.40
2:B:146:GLN:HB3	11:5:47:ARG:NH2	2.35	0.40
5:E:227:LYS:HA	5:E:230:ILE:HB	2.03	0.40
5:E:310:VAL:HA	5:E:311:LYS:C	2.42	0.40
8:2:530:LYS:HE3	11:5:428:PHE:CD1	2.56	0.40
8:2:626:GLN:HG3	8:2:628:SER:O	2.22	0.40
8:2:656:ARG:HG3	8:2:657:TYR:N	2.36	0.40
9:3:169:ARG:NH2	9:3:269:GLN:HB2	2.36	0.40
9:3:272:ARG:HD2	11:5:171:VAL:CG1	2.52	0.40
9:3:359:ILE:HG13	9:3:360:PHE:N	2.37	0.40
9:3:422:VAL:HG12	9:3:469:VAL:HG11	2.04	0.40
9:3:432:THR:OG1	9:3:472:ILE:HG12	2.21	0.40
9:3:440:VAL:HG12	9:3:441:GLY:H	1.85	0.40
9:3:482:ASP:OD1	9:3:485:ALA:HB3	2.22	0.40
9:3:711:ALA:O	9:3:715:VAL:HG23	2.21	0.40
10:4:292:ASP:C	10:4:293:LEU:HD12	2.42	0.40
10:4:340:PRO:HD3	12:6:452:ILE:HD12	2.02	0.40
10:4:346:PHE:N	10:4:389:CYS:HB3	2.36	0.40
10:4:566:LEU:HG	10:4:674:SER:HA	2.03	0.40
10:4:631:ILE:N	10:4:672:LEU:O	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:886:LEU:CD2	10:4:907:LEU:HD11	2.51	0.40
11:5:273:ASN:O	11:5:274:LEU:HD23	2.21	0.40
11:5:294:ILE:HG22	11:5:295:VAL:N	2.36	0.40
11:5:382:GLU:C	11:5:385:LYS:HB3	2.41	0.40
11:5:416:GLY:HA3	11:5:556:VAL:HB	2.04	0.40
11:5:659:ILE:HA	11:5:662:SER:HB3	2.02	0.40
12:6:274:HIS:ND1	12:6:288:LEU:HD11	2.35	0.40
12:6:585:LEU:HD21	12:6:679:LEU:HD22	2.03	0.40
12:6:685:VAL:HG22	12:6:700:ASN:HB2	1.98	0.40
12:6:720:ASN:HB3	12:6:723:ILE:HB	2.03	0.40
12:6:750:GLN:HA	12:6:753:ARG:NH1	2.31	0.40
12:6:759:ARG:CA	12:6:812:ARG:HH21	2.35	0.40
13:7:139:LEU:O	13:7:141:VAL:N	2.54	0.40
13:7:383:GLN:H	13:7:386:LYS:CE	2.34	0.40
13:7:470:LEU:HD22	13:7:522:CYS:SG	2.62	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	206/208 (99%)	182 (88%)	23 (11%)	1 (0%)	25 65
2	B	177/213 (83%)	160 (90%)	17 (10%)	0	100 100
3	C	151/194 (78%)	142 (94%)	9 (6%)	0	100 100
4	D	215/294 (73%)	193 (90%)	20 (9%)	2 (1%)	14 51
5	E	543/650 (84%)	490 (90%)	51 (9%)	2 (0%)	30 68
8	2	596/868 (69%)	535 (90%)	54 (9%)	7 (1%)	11 44
9	3	579/971 (60%)	528 (91%)	48 (8%)	3 (0%)	25 65
10	4	670/933 (72%)	594 (89%)	69 (10%)	7 (1%)	13 49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	5	583/775 (75%)	549 (94%)	30 (5%)	4 (1%)	19	57
12	6	596/1017 (59%)	528 (89%)	58 (10%)	10 (2%)	7	36
13	7	653/845 (77%)	583 (89%)	60 (9%)	10 (2%)	8	40
All	All	4969/6968 (71%)	4484 (90%)	439 (9%)	46 (1%)	17	51

All (46) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	601	ILE
10	4	189	GLU
10	4	419	VAL
10	4	609	VAL
11	5	596	ILE
12	6	317	ILE
13	7	544	GLN
8	2	291	SER
10	4	179	ILE
10	4	469	VAL
11	5	304	LYS
11	5	410	ILE
12	6	402	ILE
12	6	560	VAL
12	6	569	ILE
12	6	819	ILE
13	7	464	VAL
8	2	297	ILE
8	2	533	ILE
9	3	230	ILE
11	5	267	VAL
12	6	321	VAL
13	7	26	VAL
13	7	441	ASP
1	A	27	VAL
4	D	210	ASN
4	D	219	ILE
8	2	569	GLN
9	3	440	VAL
10	4	857	ILE
12	6	133	GLU
12	6	305	TYR
12	6	403	VAL

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Mol	Chain	Res	Type
13	7	140	ASP
13	7	502	VAL
12	6	533	ILE
10	4	322	ILE
13	7	138	VAL
8	2	303	ILE
8	2	585	ILE
5	E	98	ILE
9	3	389	VAL
13	7	248	VAL
13	7	642	ILE
13	7	708	VAL
8	2	842	VAL

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	193/193 (100%)	190 (98%)	3 (2%)	58	73
2	B	171/198 (86%)	170 (99%)	1 (1%)	84	88
3	C	144/173 (83%)	144 (100%)	0	100	100
4	D	213/279 (76%)	211 (99%)	2 (1%)	75	83
5	E	499/586 (85%)	496 (99%)	3 (1%)	84	88
8	2	508/770 (66%)	502 (99%)	6 (1%)	67	79
9	3	512/835 (61%)	506 (99%)	6 (1%)	67	79
10	4	610/848 (72%)	606 (99%)	4 (1%)	81	87
11	5	534/688 (78%)	528 (99%)	6 (1%)	70	80
12	6	486/886 (55%)	482 (99%)	4 (1%)	79	85
13	7	585/753 (78%)	581 (99%)	4 (1%)	81	87
All	All	4455/6209 (72%)	4416 (99%)	39 (1%)	74	83

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	105	ASN
1	A	151	LEU
1	A	168	LEU
2	B	118	ASN
4	D	183	HIS
4	D	216	VAL
5	E	27	LEU
5	E	33	CYS
5	E	601	ILE
8	2	234	LEU
8	2	314	LEU
8	2	437	ASN
8	2	588	GLU
8	2	604	CYS
8	2	695	LEU
9	3	95	ARG
9	3	248	SER
9	3	395	ASN
9	3	450	ARG
9	3	510	CYS
9	3	535	LEU
10	4	188	GLN
10	4	447	ASN
10	4	727	LEU
10	4	821	ASP
11	5	60	SER
11	5	302	ASN
11	5	303	SER
11	5	305	ASN
11	5	331	LEU
11	5	636	ASN
12	6	361	ILE
12	6	449	THR
12	6	548	LEU
12	6	677	SER
13	7	139	LEU
13	7	291	GLN
13	7	396	ASP
13	7	631	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (50) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	39	ASN
1	A	90	GLN
1	A	104	ASN
1	A	117	GLN
2	B	167	HIS
3	C	101	ASN
3	C	133	GLN
3	C	136	ASN
3	C	137	HIS
4	D	217	ASN
5	E	52	GLN
5	E	55	GLN
5	E	133	ASN
5	E	138	GLN
5	E	155	GLN
5	E	286	GLN
5	E	436	ASN
5	E	493	ASN
5	E	624	ASN
8	2	621	HIS
9	3	49	ASN
9	3	177	ASN
9	3	351	ASN
9	3	688	ASN
10	4	184	ASN
10	4	260	GLN
10	4	266	GLN
10	4	354	HIS
10	4	410	GLN
10	4	646	HIS
10	4	691	ASN
11	5	67	HIS
11	5	254	GLN
11	5	305	ASN
11	5	500	GLN
11	5	625	ASN
12	6	357	GLN
12	6	458	HIS
12	6	658	GLN
12	6	669	HIS
13	7	89	GLN
13	7	90	ASN
13	7	145	GLN

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Mol	Chain	Res	Type
13	7	271	GLN
13	7	297	GLN
13	7	326	HIS
13	7	379	GLN
13	7	383	GLN
13	7	543	GLN
13	7	620	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
14	ATP	5	801	-	28,33,33	1.02	2 (7%)	34,52,52	1.20	2 (5%)
14	ATP	2	901	-	28,33,33	1.01	2 (7%)	34,52,52	1.22	2 (5%)
14	ATP	3	1001	-	28,33,33	0.98	1 (3%)	34,52,52	1.19	2 (5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	ATP	5	801	-	-	3/18/38/38	0/3/3/3
14	ATP	2	901	-	-	3/18/38/38	0/3/3/3
14	ATP	3	1001	-	-	2/18/38/38	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	2	901	ATP	PB-O3A	2.15	1.61	1.59
14	5	801	ATP	PB-O3A	2.15	1.61	1.59
14	5	801	ATP	PA-O3A	2.12	1.61	1.59
14	2	901	ATP	O4'-C1'	2.06	1.43	1.40
14	3	1001	ATP	PB-O3B	2.04	1.61	1.59

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	5	801	ATP	N3-C2-N1	-4.31	122.82	128.67
14	2	901	ATP	N3-C2-N1	-4.30	122.83	128.67
14	3	1001	ATP	N3-C2-N1	-4.16	123.02	128.67
14	5	801	ATP	C4-C5-N7	-2.63	106.55	109.34
14	3	1001	ATP	C4-C5-N7	-2.52	106.67	109.34
14	2	901	ATP	C4-C5-N7	-2.48	106.72	109.34

There are no chirality outliers.

All (8) torsion outliers are listed below:

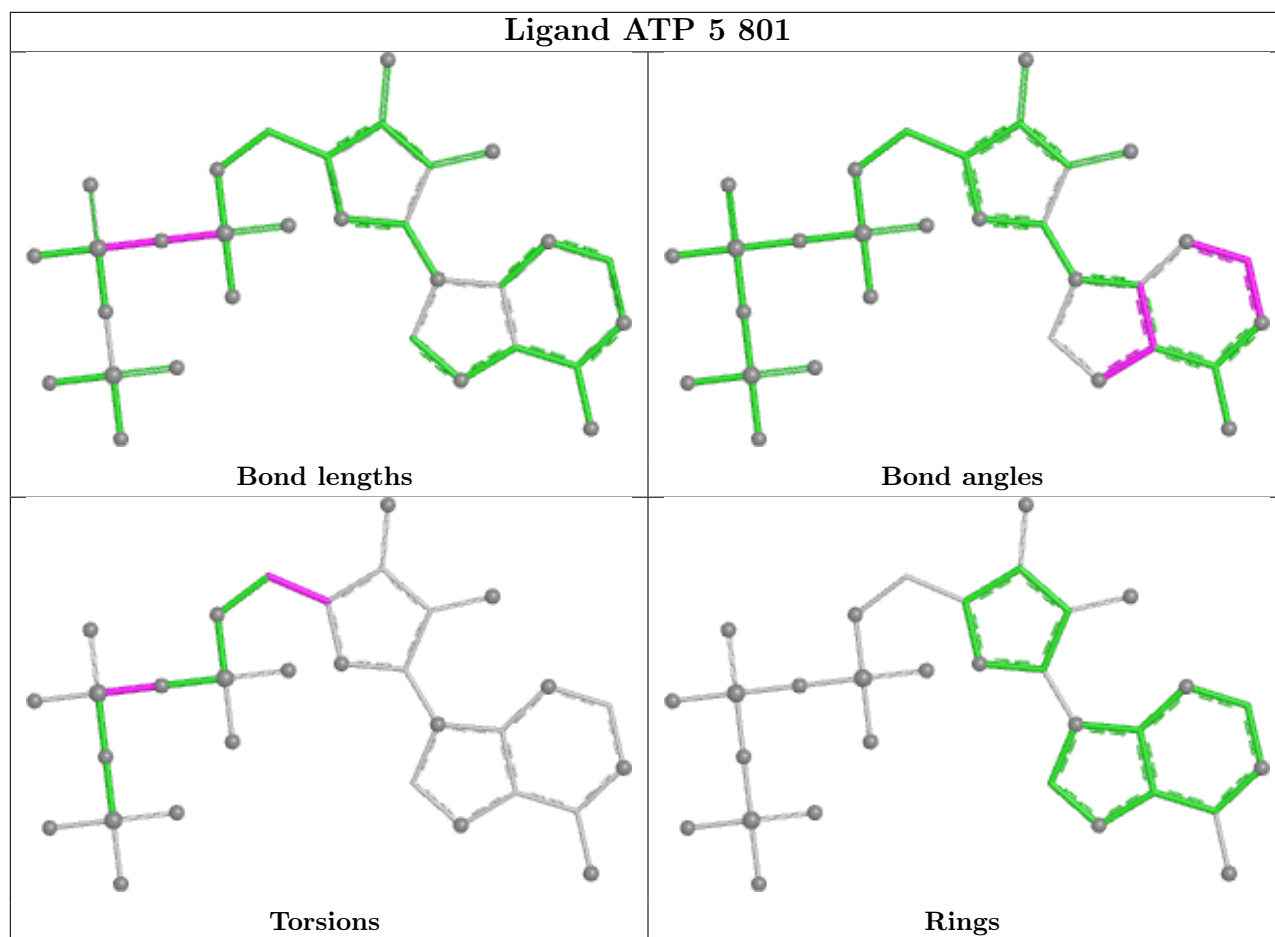
Mol	Chain	Res	Type	Atoms
14	2	901	ATP	C5'-O5'-PA-O1A
14	2	901	ATP	C5'-O5'-PA-O2A
14	2	901	ATP	C5'-O5'-PA-O3A
14	3	1001	ATP	PG-O3B-PB-O1B
14	5	801	ATP	PA-O3A-PB-O1B
14	3	1001	ATP	PG-O3B-PB-O2B
14	5	801	ATP	PA-O3A-PB-O2B
14	5	801	ATP	O4'-C4'-C5'-O5'

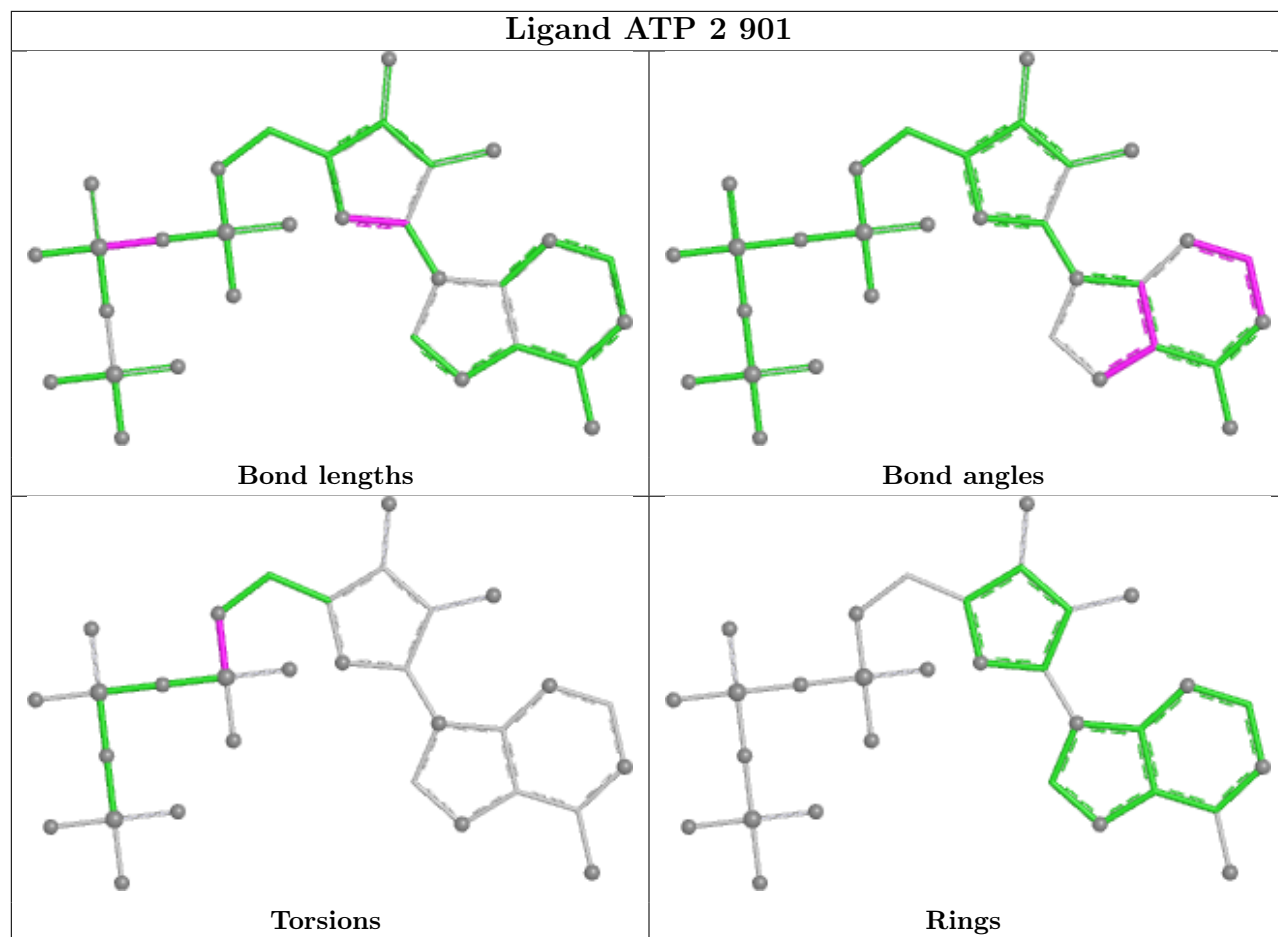
There are no ring outliers.

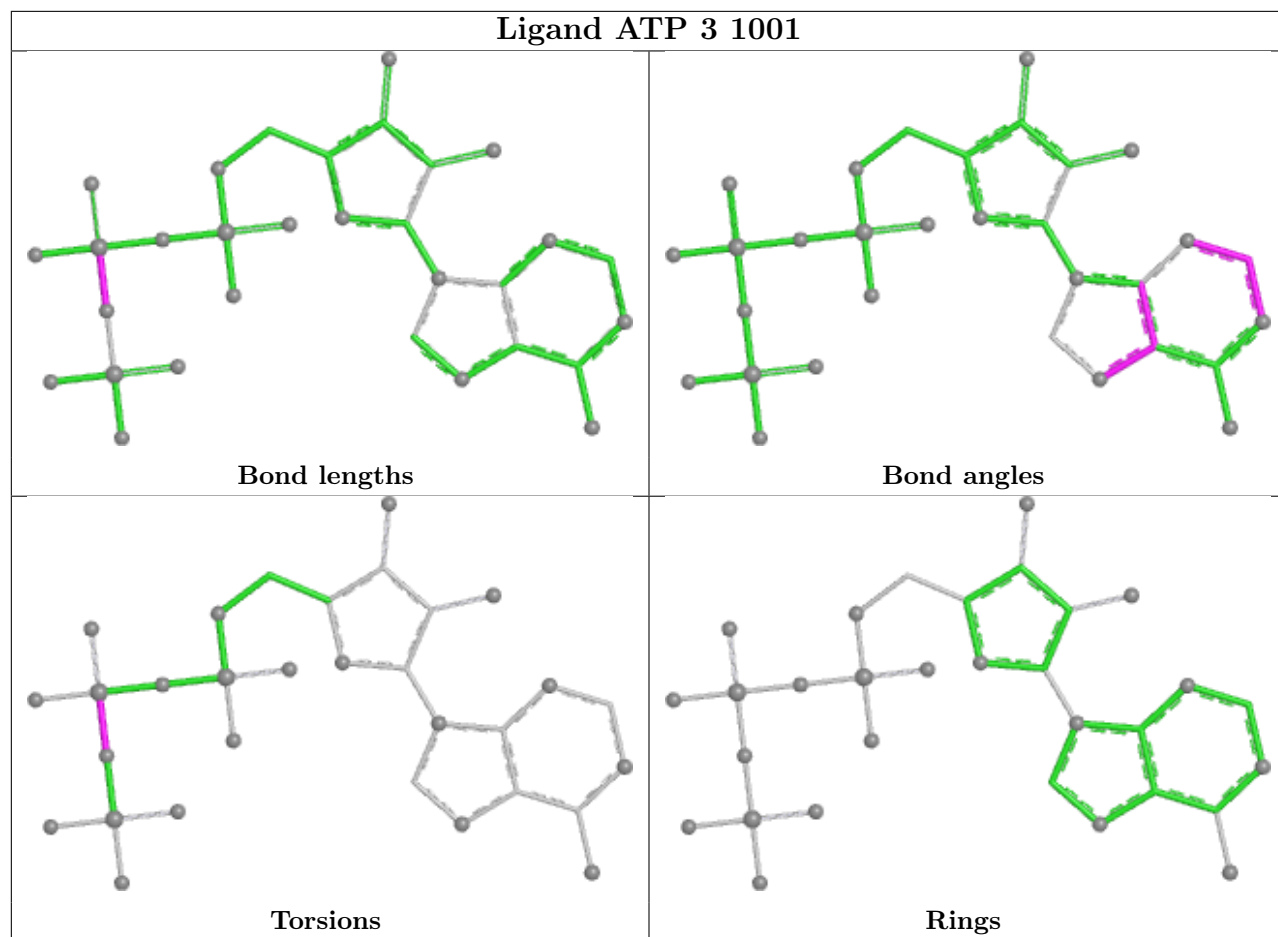
3 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	5	801	ATP	12	0
14	2	901	ATP	12	0
14	3	1001	ATP	5	0

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

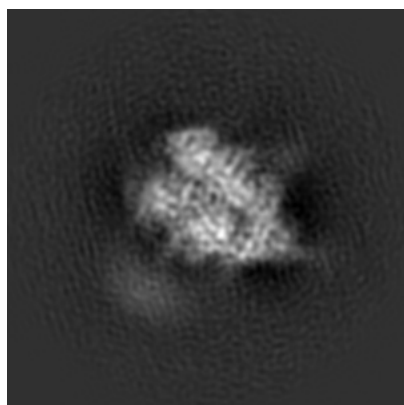
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8518. These allow visual inspection of the internal detail of the map and identification of artifacts.

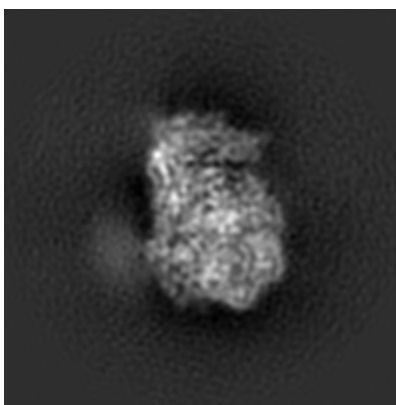
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

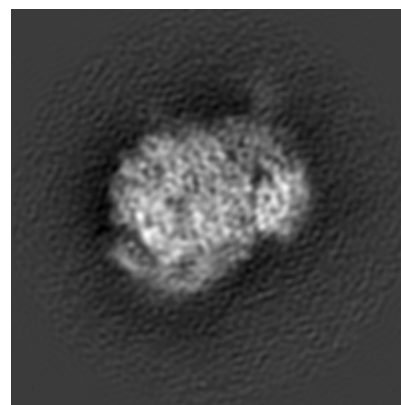
6.1.1 Primary map



X



Y

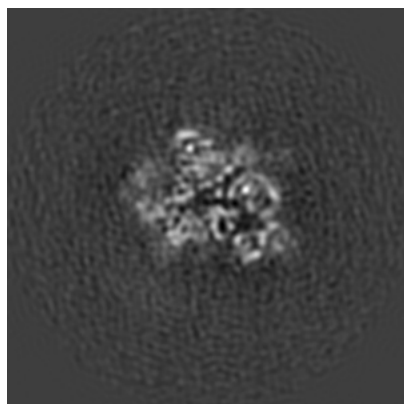


Z

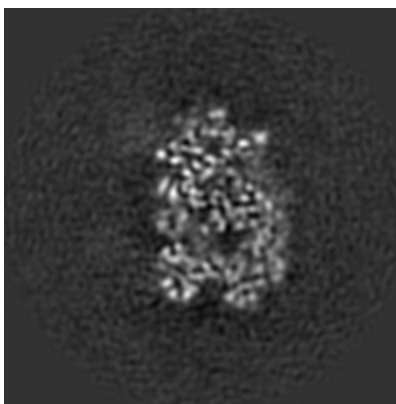
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

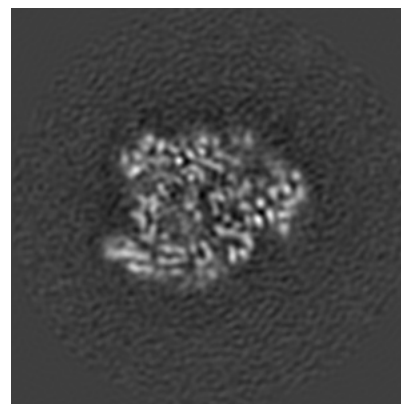
6.2.1 Primary map



X Index: 128



Y Index: 128

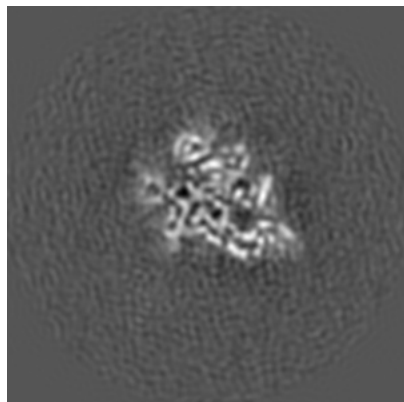


Z Index: 128

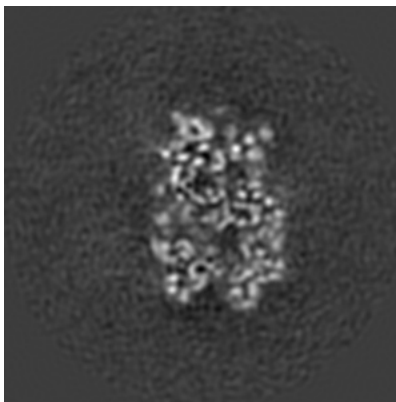
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

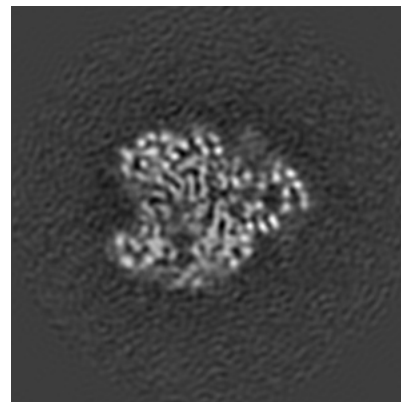
6.3.1 Primary map



X Index: 133



Y Index: 124

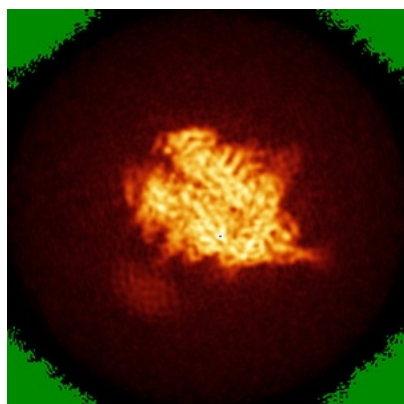


Z Index: 133

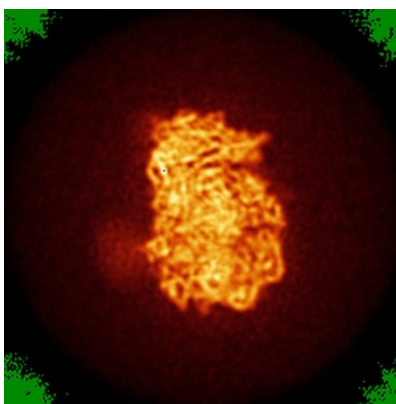
The images above show the largest variance slices of the map in three orthogonal directions.

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

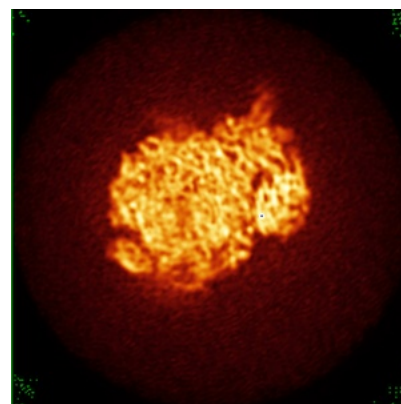
6.4.1 Primary map



X



Y

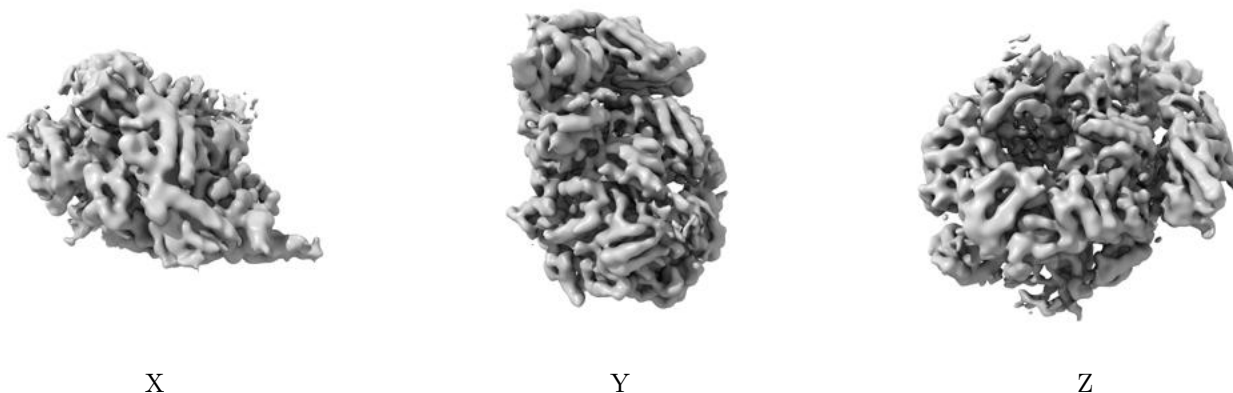


Z

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 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

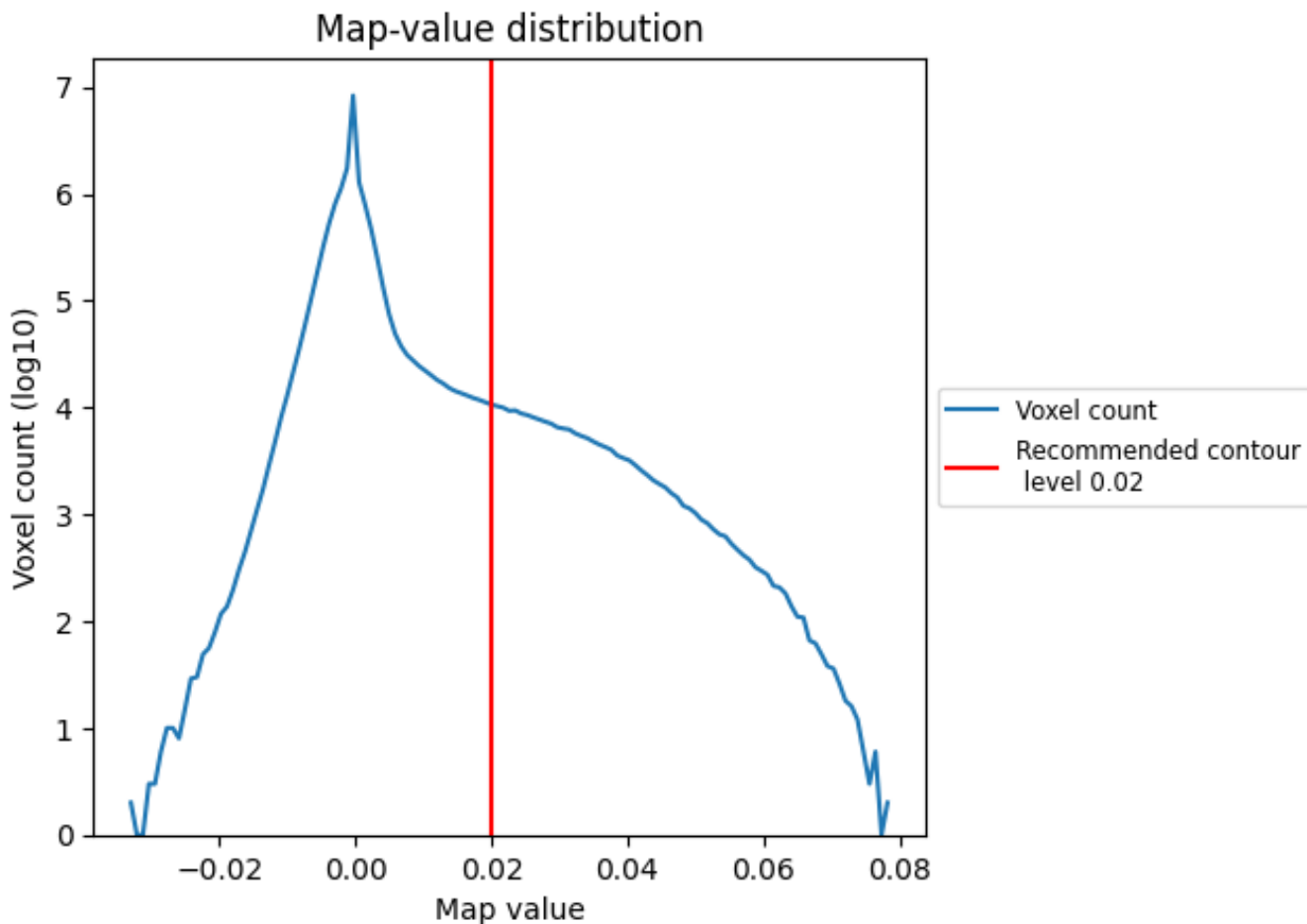
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

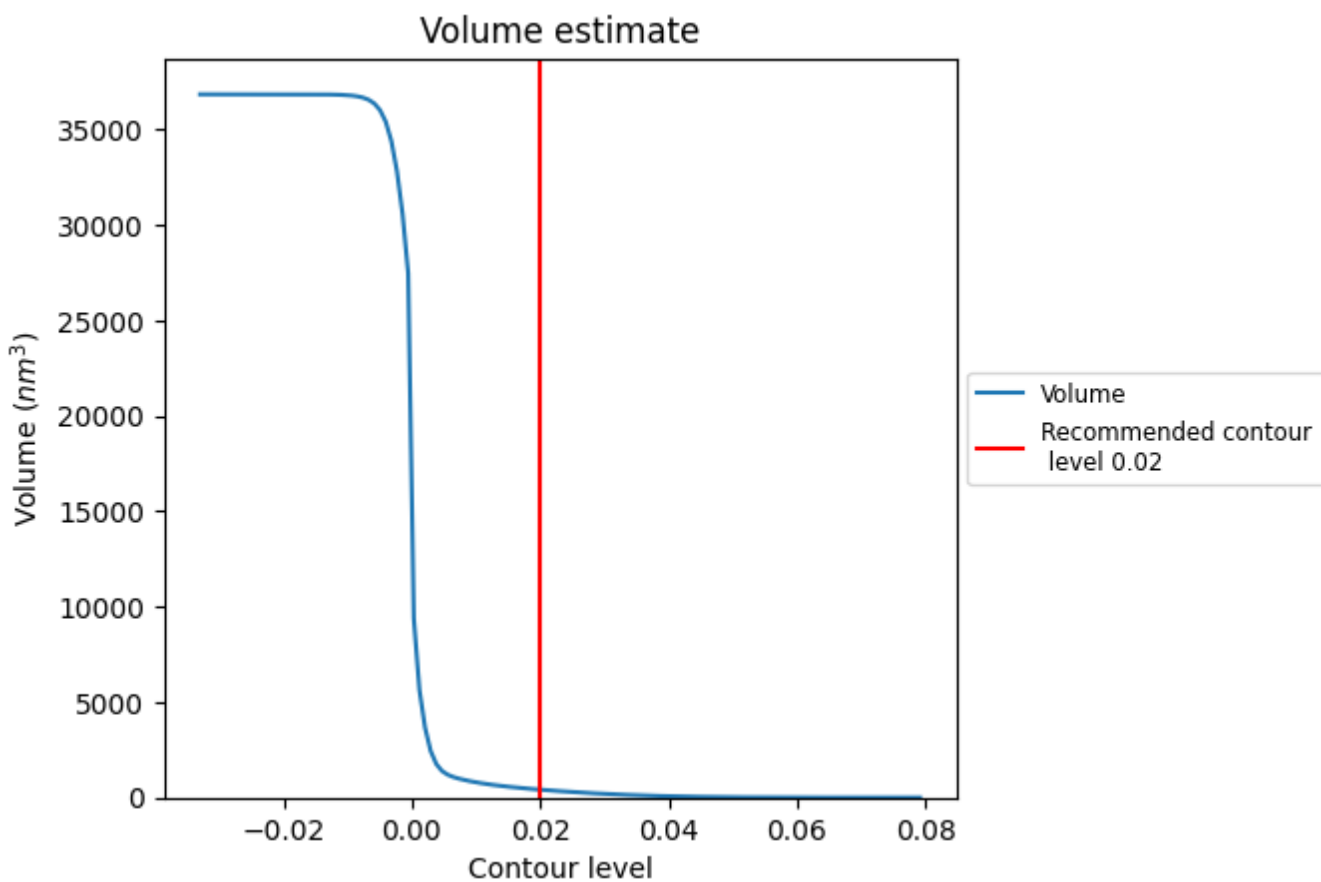
This section contains the results of statistical analysis of the map.

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.

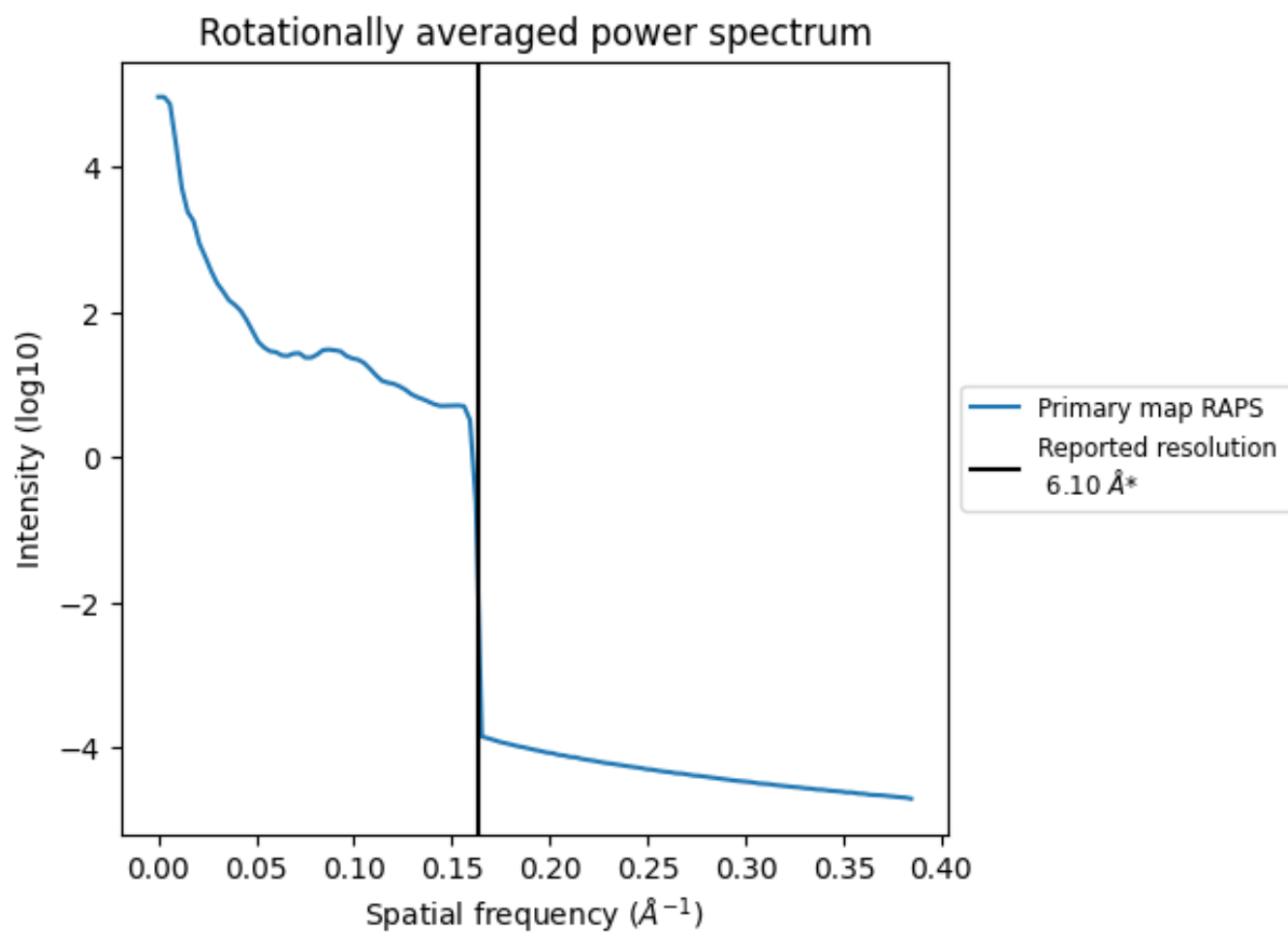
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 413 nm³; this corresponds to an approximate mass of 373 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.164\AA^{-1}

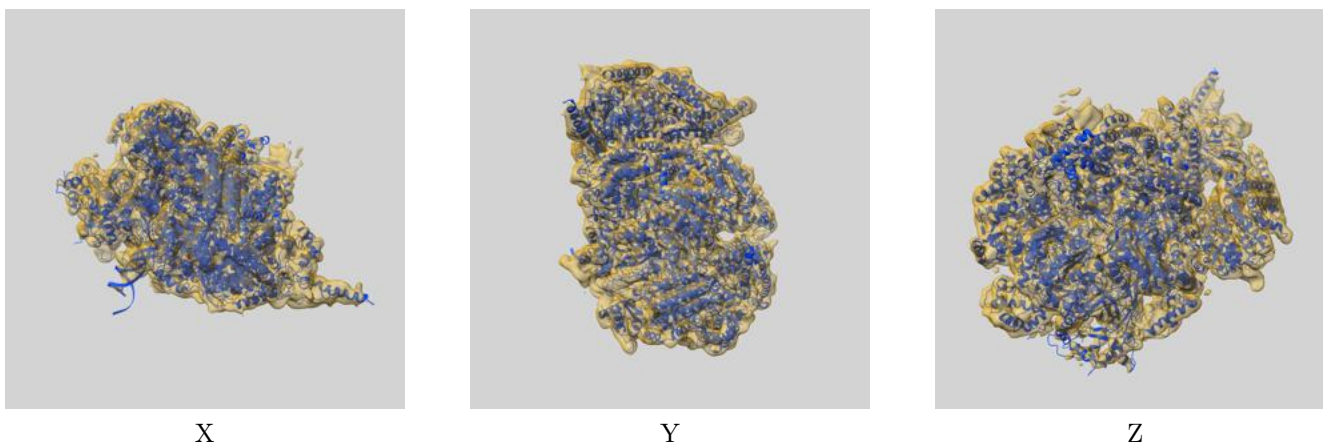
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

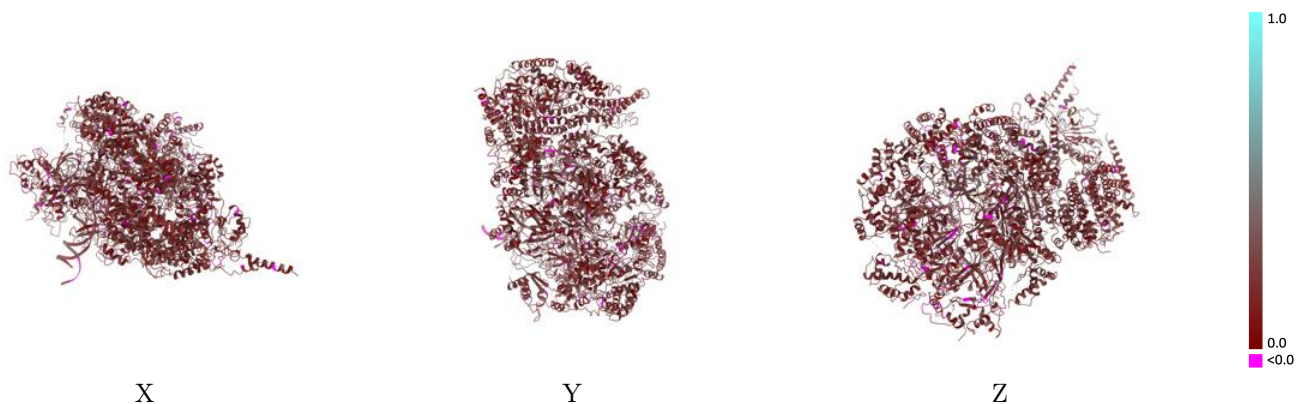
This section contains information regarding the fit between EMDB map EMD-8518 and PDB model 5U8S. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



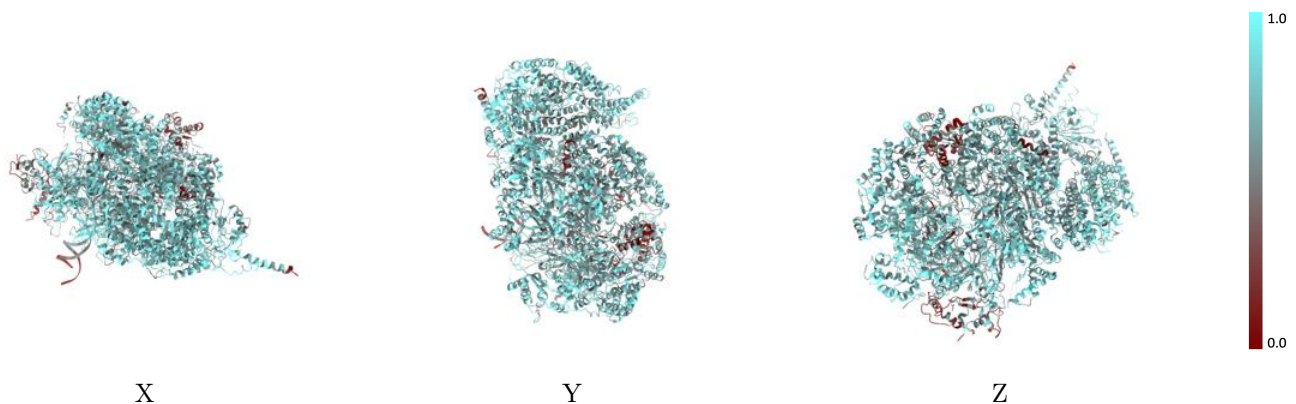
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



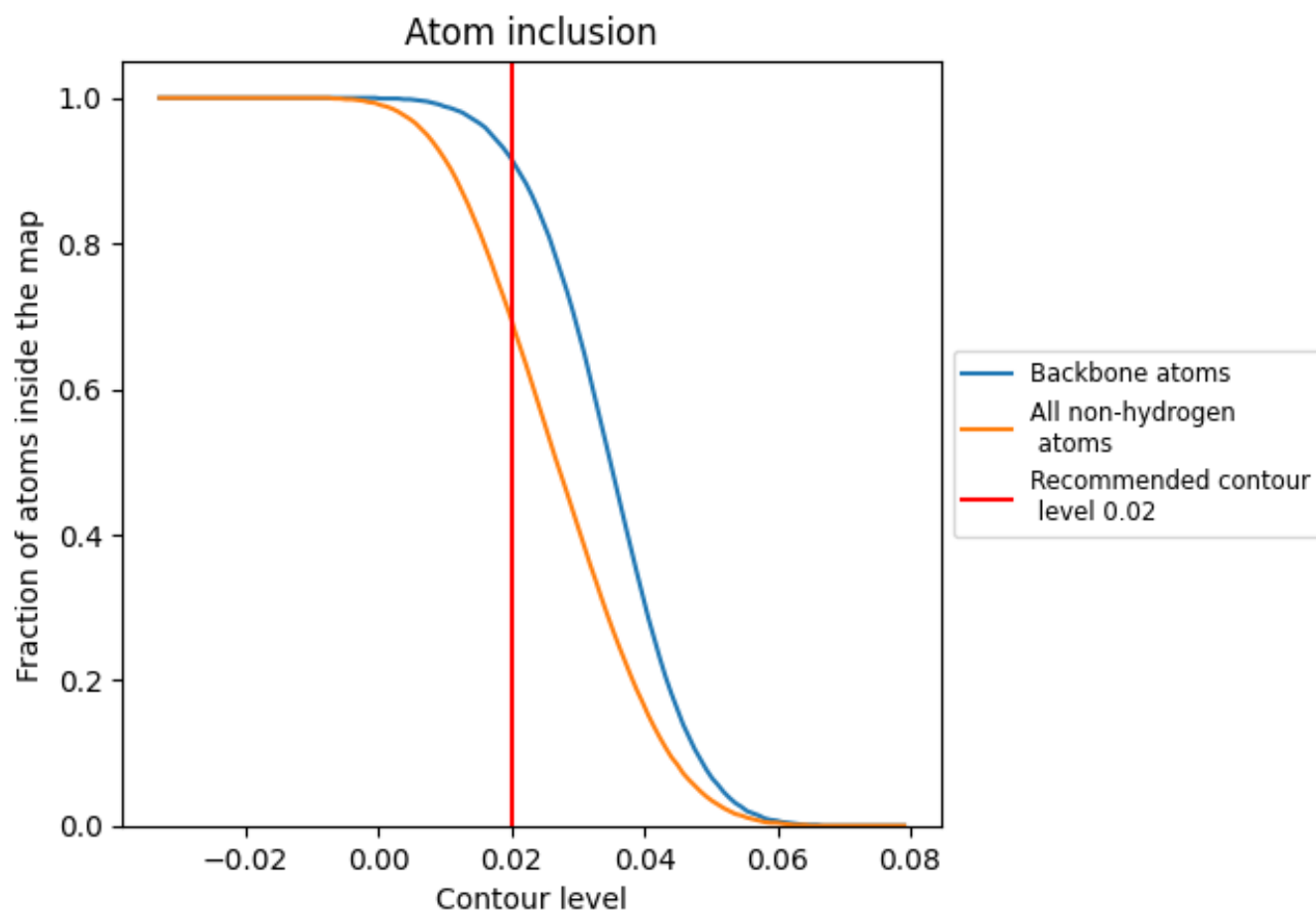
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.02).





























9.4 Atom inclusion [i](#)



At the recommended contour level, 92% of all backbone atoms, 70% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6950	 0.1990
2	 0.7040	 0.1990
3	 0.7180	 0.2070
4	 0.6650	 0.1880
5	 0.6780	 0.2030
6	 0.7040	 0.2020
7	 0.6110	 0.1920
A	 0.6950	 0.1880
B	 0.7560	 0.2070
C	 0.7590	 0.2000
D	 0.7850	 0.1990
E	 0.7560	 0.2010
F	 0.5390	 0.2370
G	 0.4840	 0.2260

