



## Full wwPDB EM Validation Report ⓘ

Jun 9, 2024 – 07:25 PM EDT

PDB ID : 8FNW  
EMDB ID : EMD-29328  
Title : Structure of RdrA-RdrB complex from Escherichia coli RADAR defense system  
Authors : Duncan-Lowey, B.; Johnson, A.G.; Rawson, S.; Mayer, M.L.; Kranzusch, P.J.  
Deposited on : 2022-12-28  
Resolution : 6.73 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev92  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36.2

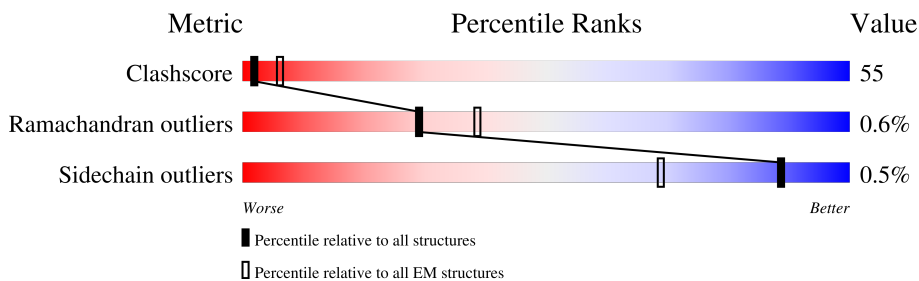
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 6.73 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">62%</div> </div>
1	B	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">58%</div> </div>
1	C	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">21%</div> </div>
1	D	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">22%</div> </div>
1	E	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">48%</div> </div>
1	F	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">44%</div> </div>
1	G	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">45%</div> </div>
1	H	799	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">37%</div> </div>

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Mol	Chain	Length	Quality of chain
1	I	799	
1	J	799	
1	K	799	
1	L	799	
2	M	947	
2	N	947	
2	O	947	
2	P	947	
2	Q	947	
2	R	947	
2	S	947	

## 2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 118867 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 Adenosine deaminase.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	770	6245	4002	1082	1127	34	0	0
1	B	770	6245	4002	1082	1127	34	0	0
1	C	770	6245	4002	1082	1127	34	0	0
1	D	767	6221	3989	1078	1120	34	0	0
1	E	770	6245	4002	1082	1127	34	0	0
1	F	770	6245	4002	1082	1127	34	0	0
1	G	770	6245	4002	1082	1127	34	0	0
1	H	770	6245	4002	1082	1127	34	0	0
1	I	770	6245	4002	1082	1127	34	0	0
1	J	770	6245	4002	1082	1127	34	0	0
1	K	770	6245	4002	1082	1127	34	0	0
1	L	770	6245	4002	1082	1127	34	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	274	THR	ILE	conflict	UNP A0A8E2SFD7
B	274	THR	ILE	conflict	UNP A0A8E2SFD7
C	274	THR	ILE	conflict	UNP A0A8E2SFD7
D	274	THR	ILE	conflict	UNP A0A8E2SFD7
E	274	THR	ILE	conflict	UNP A0A8E2SFD7
F	274	THR	ILE	conflict	UNP A0A8E2SFD7

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Chain	Residue	Modelled	Actual	Comment	Reference
G	274	THR	ILE	conflict	UNP A0A8E2SFD7
H	274	THR	ILE	conflict	UNP A0A8E2SFD7
I	274	THR	ILE	conflict	UNP A0A8E2SFD7
J	274	THR	ILE	conflict	UNP A0A8E2SFD7
K	274	THR	ILE	conflict	UNP A0A8E2SFD7
L	274	THR	ILE	conflict	UNP A0A8E2SFD7

- Molecule 2 is a protein called Archaeal ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	M	786	6277	3985	1085	1176	31	0	0
2	N	786	6277	3985	1085	1176	31	0	0
2	O	786	6277	3985	1085	1176	31	0	0
2	P	786	6277	3985	1085	1176	31	0	0
2	Q	786	6277	3985	1085	1176	31	0	0
2	R	786	6277	3985	1085	1176	31	0	0
2	S	786	6277	3985	1085	1176	31	0	0

There are 70 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	11	LYS	GLU	conflict	UNP A0A8H9B1T2
M	24	SER	PRO	conflict	UNP A0A8H9B1T2
M	67	PRO	SER	conflict	UNP A0A8H9B1T2
M	335	SER	GLY	conflict	UNP A0A8H9B1T2
M	409	ASP	ASN	conflict	UNP A0A8H9B1T2
M	428	ASN	SER	conflict	UNP A0A8H9B1T2
M	583	ASN	HIS	conflict	UNP A0A8H9B1T2
M	586	GLU	GLY	conflict	UNP A0A8H9B1T2
M	636	ARG	LEU	conflict	UNP A0A8H9B1T2
M	858	ILE	VAL	conflict	UNP A0A8H9B1T2
N	11	LYS	GLU	conflict	UNP A0A8H9B1T2
N	24	SER	PRO	conflict	UNP A0A8H9B1T2
N	67	PRO	SER	conflict	UNP A0A8H9B1T2
N	335	SER	GLY	conflict	UNP A0A8H9B1T2

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Chain	Residue	Modelled	Actual	Comment	Reference
N	409	ASP	ASN	conflict	UNP A0A8H9B1T2
N	428	ASN	SER	conflict	UNP A0A8H9B1T2
N	583	ASN	HIS	conflict	UNP A0A8H9B1T2
N	586	GLU	GLY	conflict	UNP A0A8H9B1T2
N	636	ARG	LEU	conflict	UNP A0A8H9B1T2
N	858	ILE	VAL	conflict	UNP A0A8H9B1T2
O	11	LYS	GLU	conflict	UNP A0A8H9B1T2
O	24	SER	PRO	conflict	UNP A0A8H9B1T2
O	67	PRO	SER	conflict	UNP A0A8H9B1T2
O	335	SER	GLY	conflict	UNP A0A8H9B1T2
O	409	ASP	ASN	conflict	UNP A0A8H9B1T2
O	428	ASN	SER	conflict	UNP A0A8H9B1T2
O	583	ASN	HIS	conflict	UNP A0A8H9B1T2
O	586	GLU	GLY	conflict	UNP A0A8H9B1T2
O	636	ARG	LEU	conflict	UNP A0A8H9B1T2
O	858	ILE	VAL	conflict	UNP A0A8H9B1T2
P	11	LYS	GLU	conflict	UNP A0A8H9B1T2
P	24	SER	PRO	conflict	UNP A0A8H9B1T2
P	67	PRO	SER	conflict	UNP A0A8H9B1T2
P	335	SER	GLY	conflict	UNP A0A8H9B1T2
P	409	ASP	ASN	conflict	UNP A0A8H9B1T2
P	428	ASN	SER	conflict	UNP A0A8H9B1T2
P	583	ASN	HIS	conflict	UNP A0A8H9B1T2
P	586	GLU	GLY	conflict	UNP A0A8H9B1T2
P	636	ARG	LEU	conflict	UNP A0A8H9B1T2
P	858	ILE	VAL	conflict	UNP A0A8H9B1T2
Q	11	LYS	GLU	conflict	UNP A0A8H9B1T2
Q	24	SER	PRO	conflict	UNP A0A8H9B1T2
Q	67	PRO	SER	conflict	UNP A0A8H9B1T2
Q	335	SER	GLY	conflict	UNP A0A8H9B1T2
Q	409	ASP	ASN	conflict	UNP A0A8H9B1T2
Q	428	ASN	SER	conflict	UNP A0A8H9B1T2
Q	583	ASN	HIS	conflict	UNP A0A8H9B1T2
Q	586	GLU	GLY	conflict	UNP A0A8H9B1T2
Q	636	ARG	LEU	conflict	UNP A0A8H9B1T2
Q	858	ILE	VAL	conflict	UNP A0A8H9B1T2
R	11	LYS	GLU	conflict	UNP A0A8H9B1T2
R	24	SER	PRO	conflict	UNP A0A8H9B1T2
R	67	PRO	SER	conflict	UNP A0A8H9B1T2
R	335	SER	GLY	conflict	UNP A0A8H9B1T2
R	409	ASP	ASN	conflict	UNP A0A8H9B1T2
R	428	ASN	SER	conflict	UNP A0A8H9B1T2

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Chain	Residue	Modelled	Actual	Comment	Reference
R	583	ASN	HIS	conflict	UNP A0A8H9B1T2
R	586	GLU	GLY	conflict	UNP A0A8H9B1T2
R	636	ARG	LEU	conflict	UNP A0A8H9B1T2
R	858	ILE	VAL	conflict	UNP A0A8H9B1T2
S	11	LYS	GLU	conflict	UNP A0A8H9B1T2
S	24	SER	PRO	conflict	UNP A0A8H9B1T2
S	67	PRO	SER	conflict	UNP A0A8H9B1T2
S	335	SER	GLY	conflict	UNP A0A8H9B1T2
S	409	ASP	ASN	conflict	UNP A0A8H9B1T2
S	428	ASN	SER	conflict	UNP A0A8H9B1T2
S	583	ASN	HIS	conflict	UNP A0A8H9B1T2
S	586	GLU	GLY	conflict	UNP A0A8H9B1T2
S	636	ARG	LEU	conflict	UNP A0A8H9B1T2
S	858	ILE	VAL	conflict	UNP A0A8H9B1T2

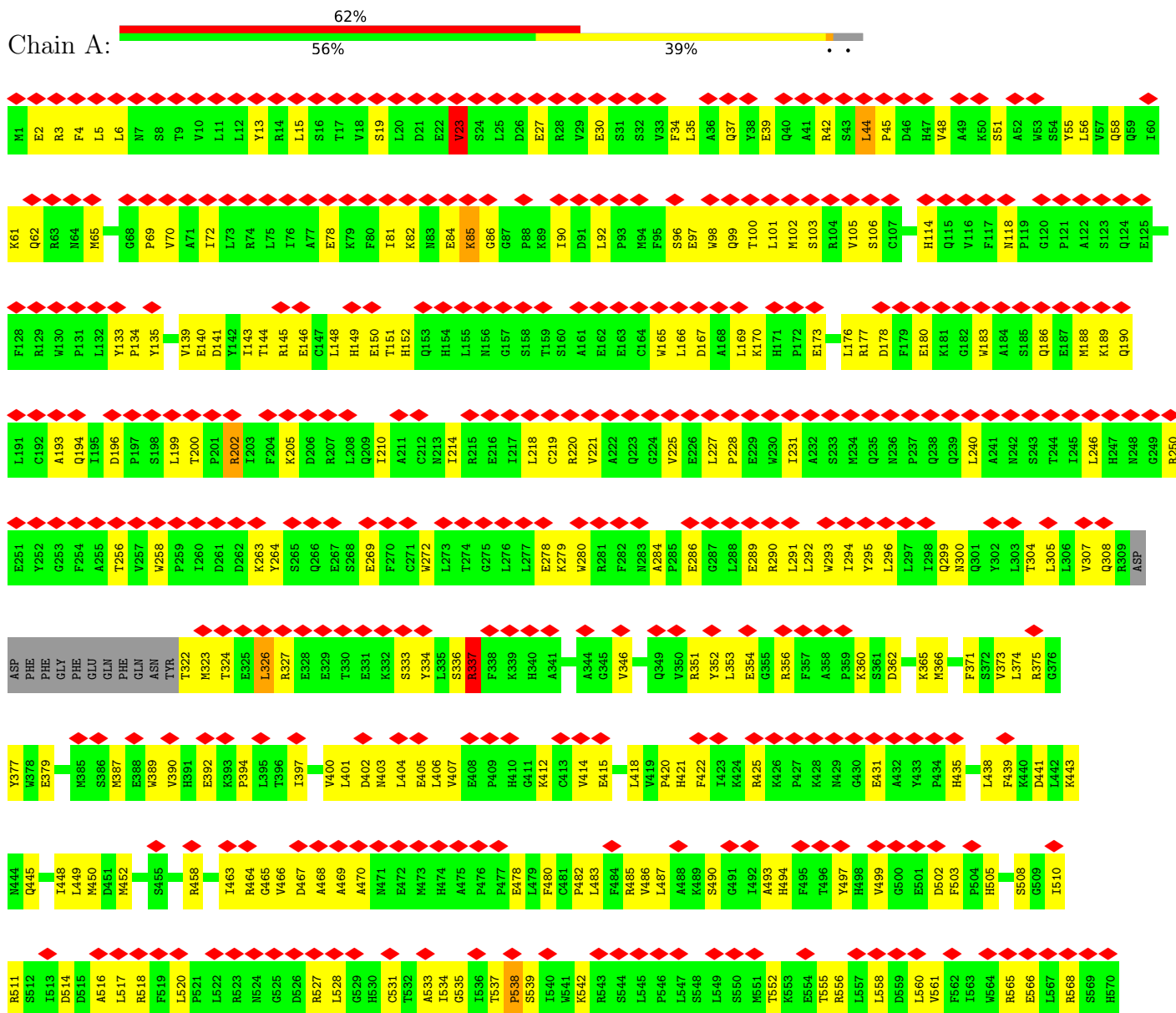
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	AltConf
3	A	1	Total Zn 1 1	0
3	B	1	Total Zn 1 1	0
3	C	1	Total Zn 1 1	0
3	D	1	Total Zn 1 1	0
3	E	1	Total Zn 1 1	0
3	F	1	Total Zn 1 1	0
3	G	1	Total Zn 1 1	0
3	H	1	Total Zn 1 1	0
3	I	1	Total Zn 1 1	0
3	J	1	Total Zn 1 1	0
3	K	1	Total Zn 1 1	0
3	L	1	Total Zn 1 1	0

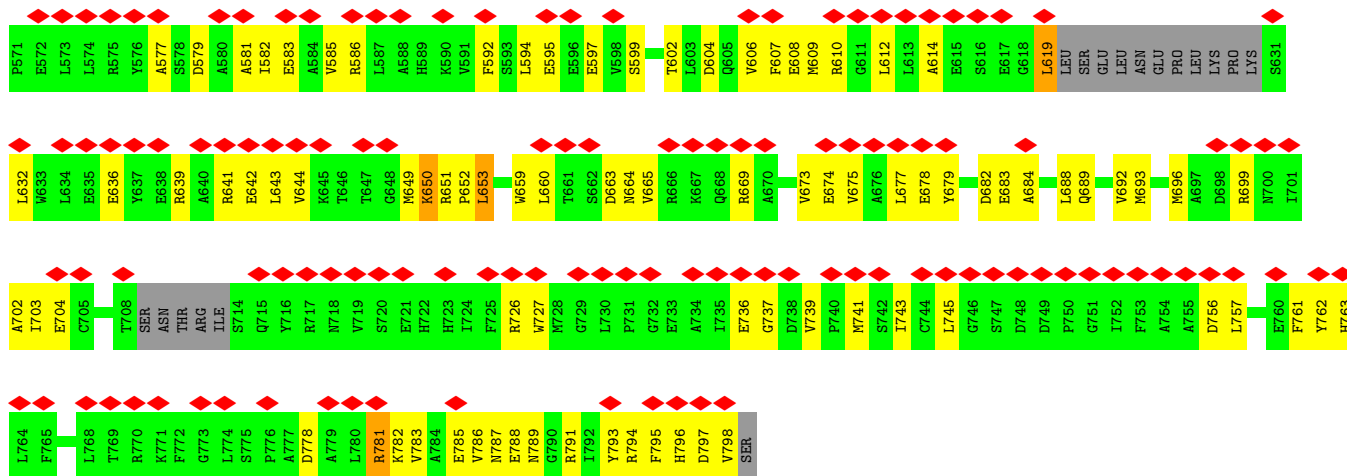
### 3 Residue-property plots

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

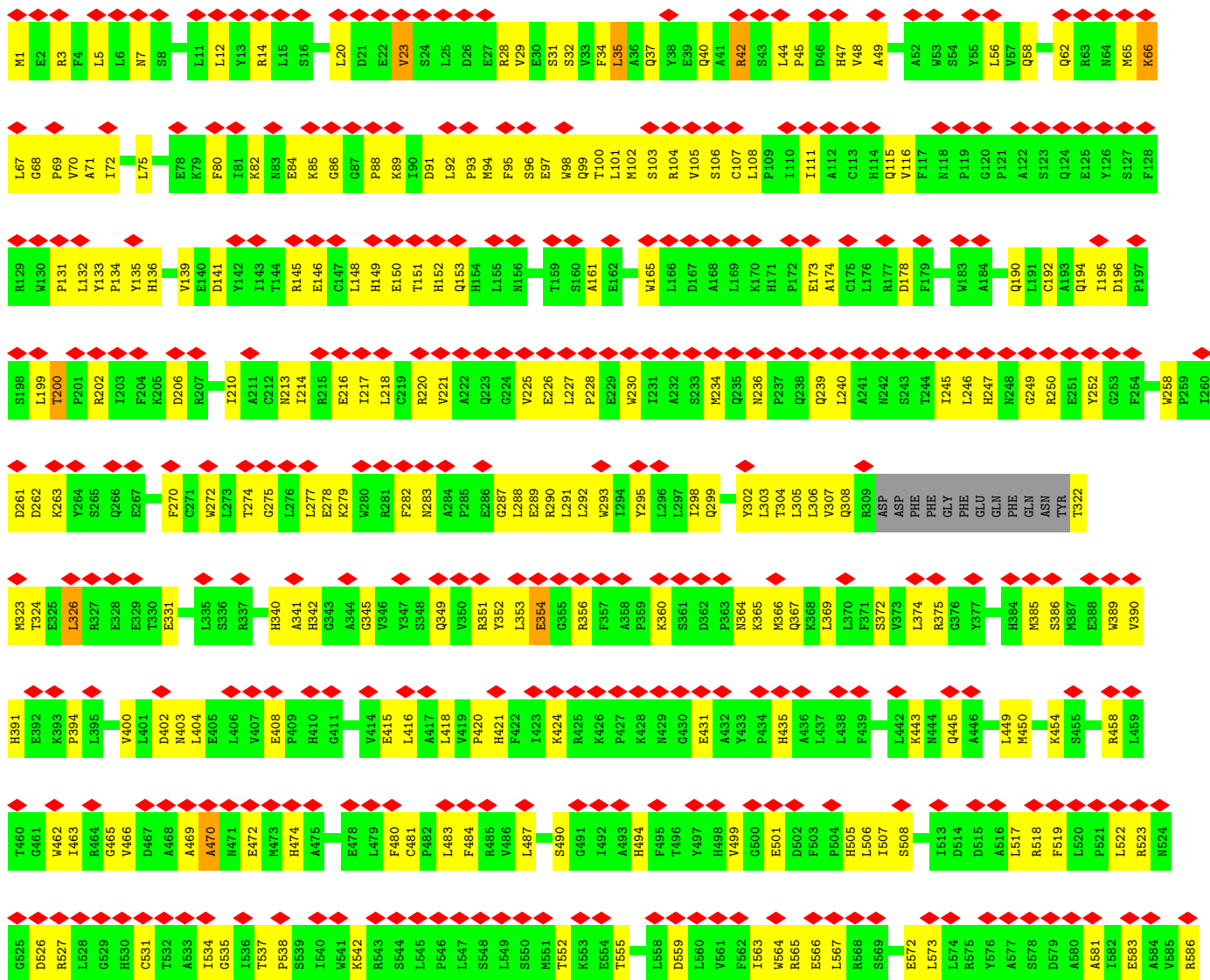
#### • Molecule 1: Adenosine deaminase

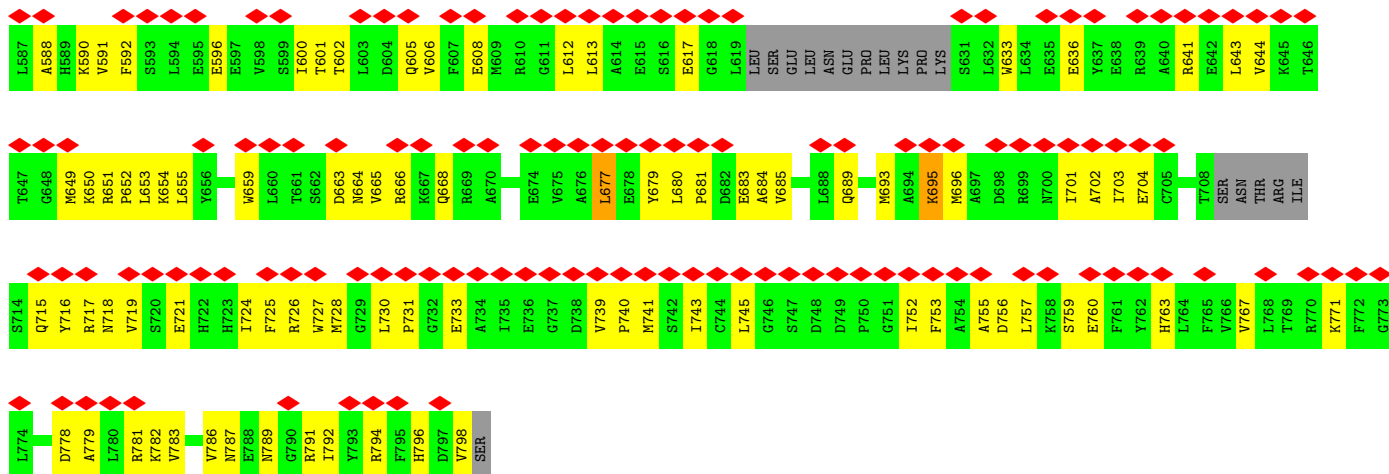




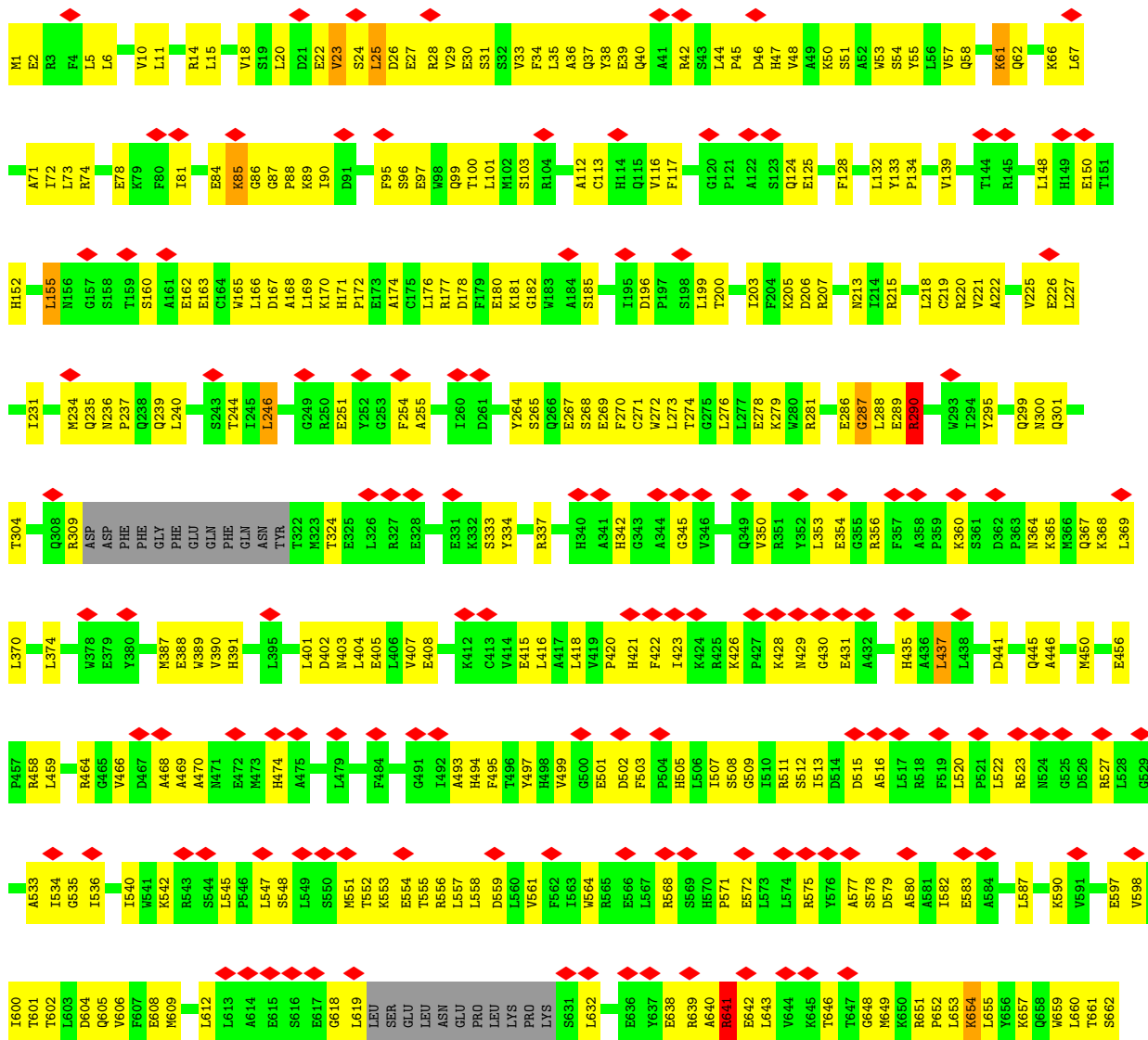


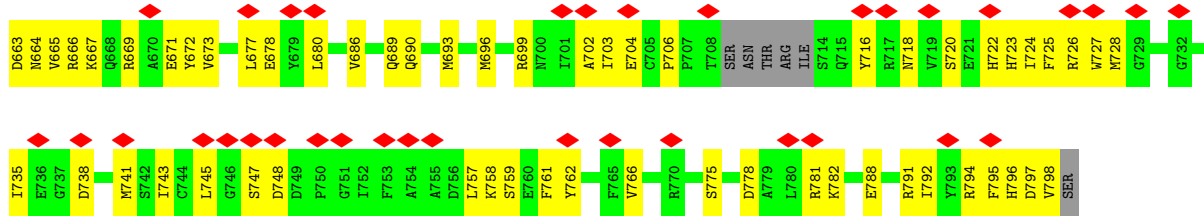
• Molecule 1: Adenosine deaminase



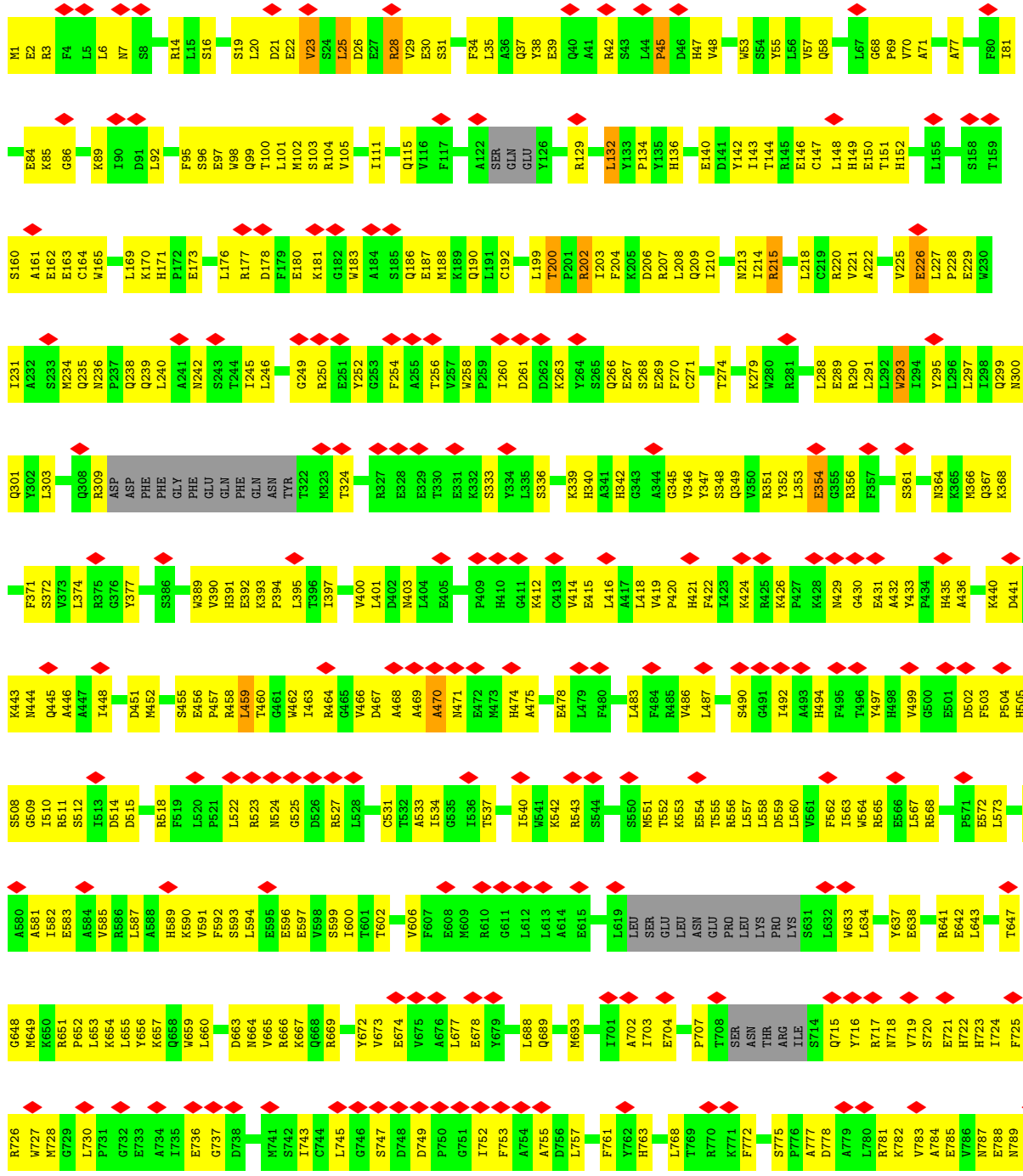


• Molecule 1: Adenosine deaminase





• Molecule 1: Adenosine deaminase

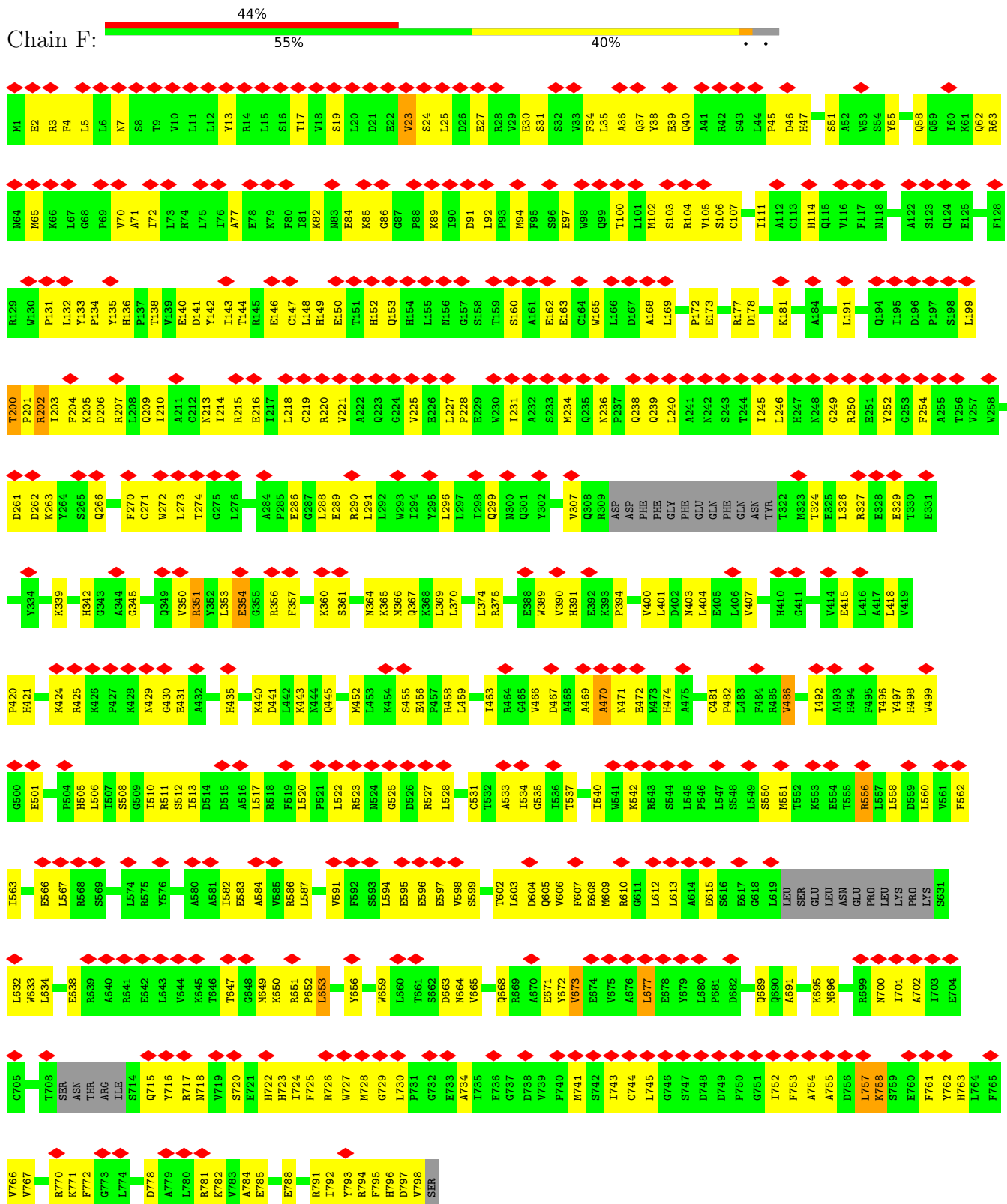




• Molecule 1: Adenosine deaminase

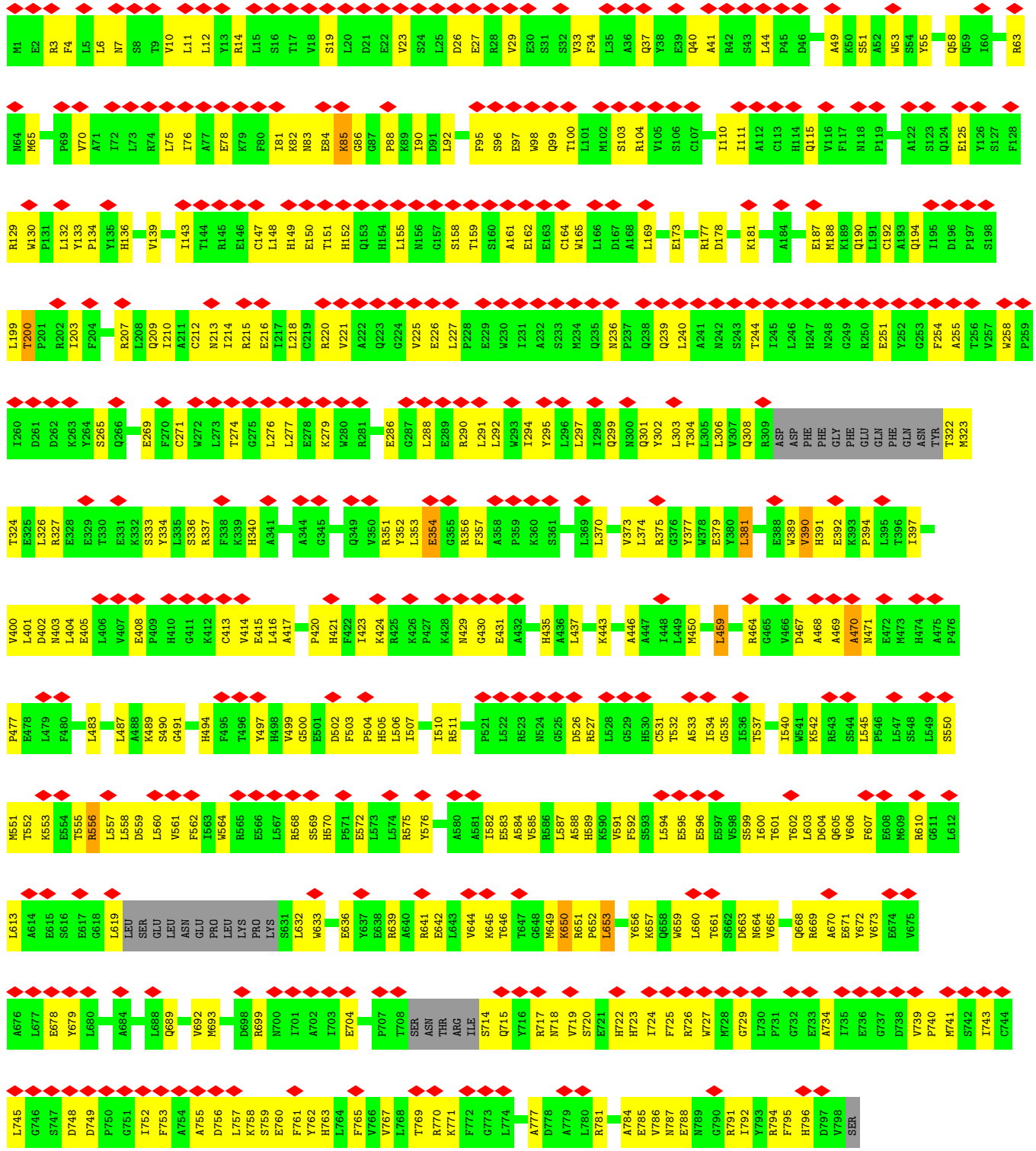


• Molecule 1: Adenosine deaminase

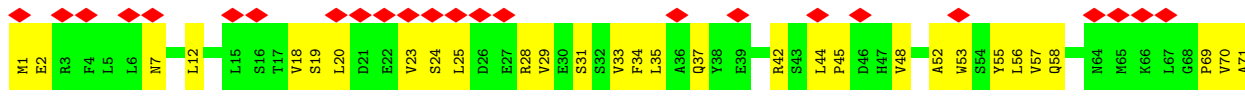


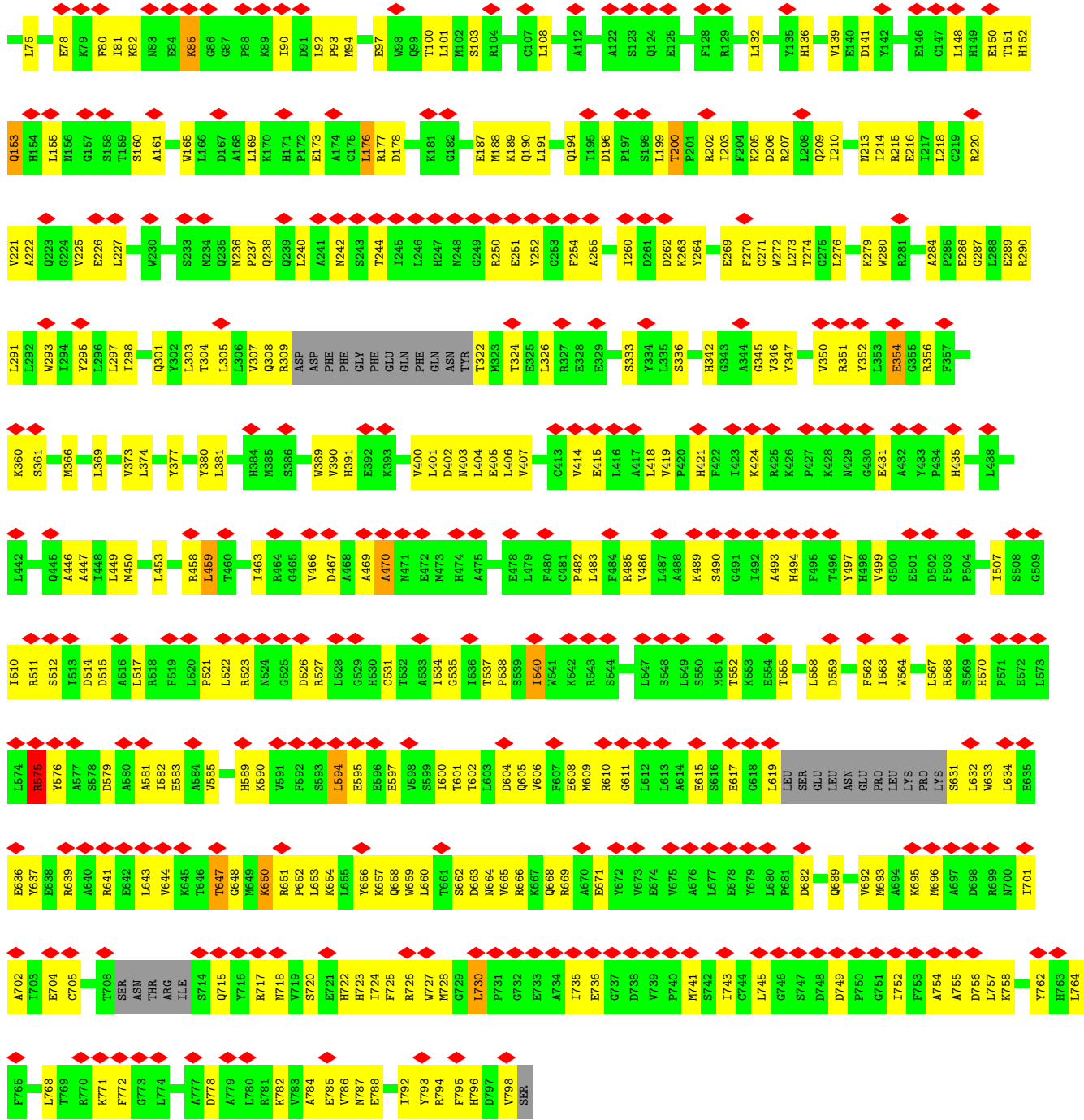
• Molecule 1: Adenosine deaminase



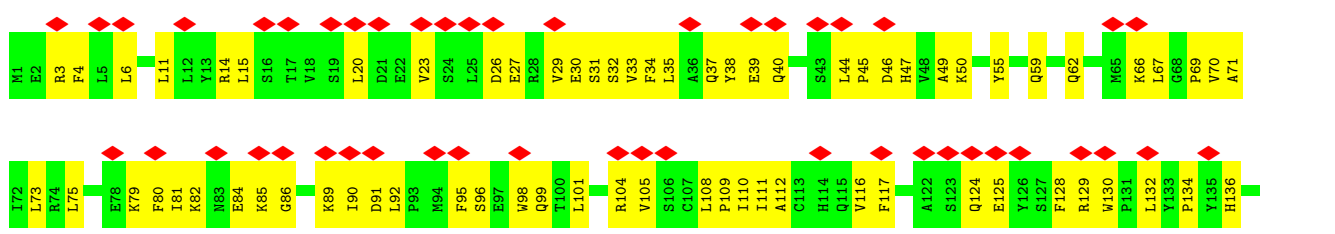


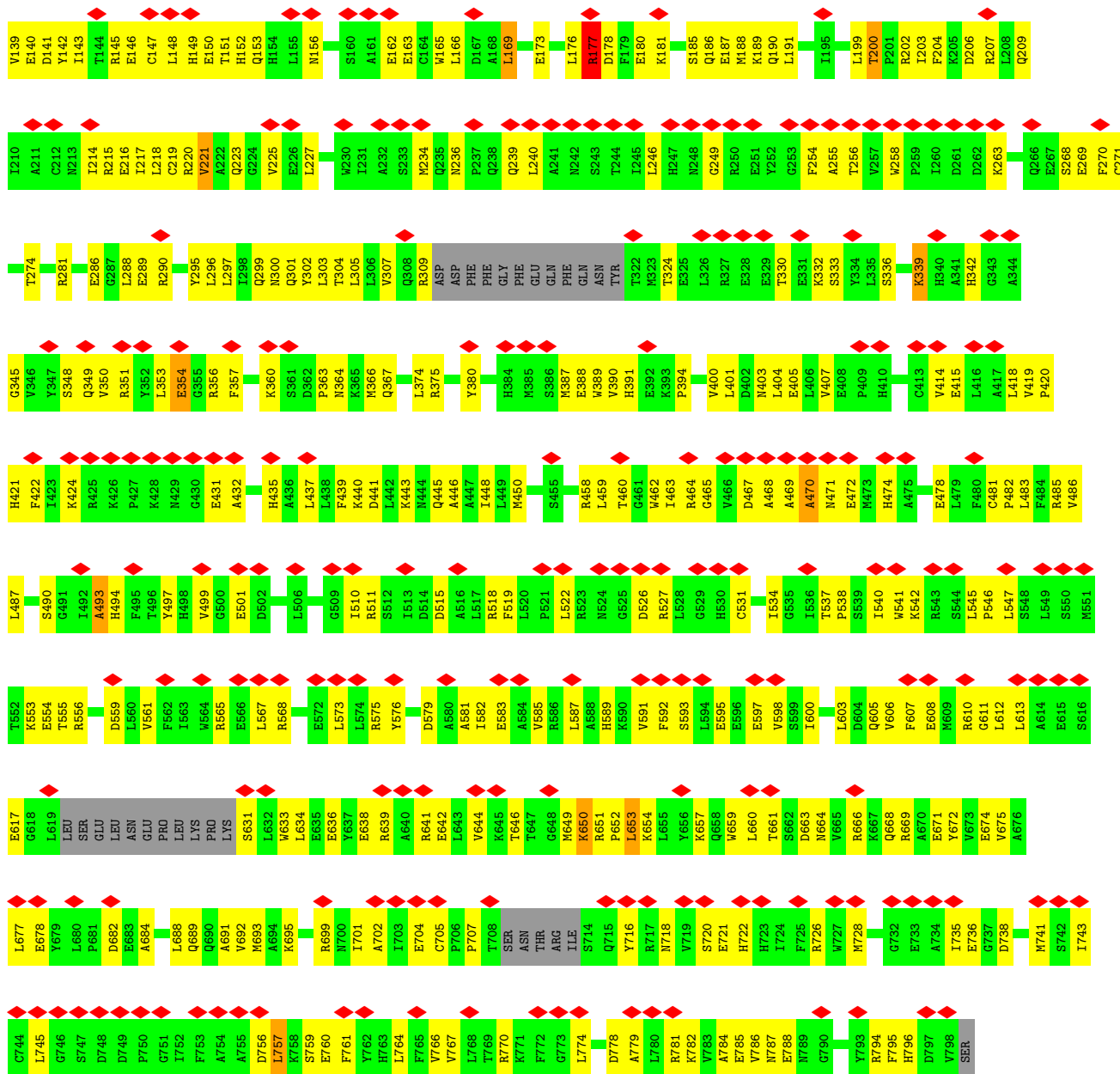
• Molecule 1: Adenosine deaminase



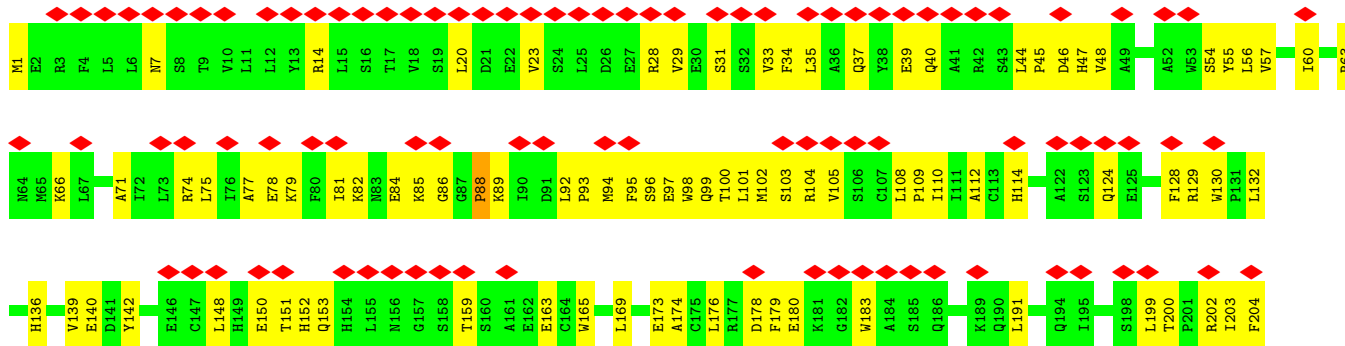
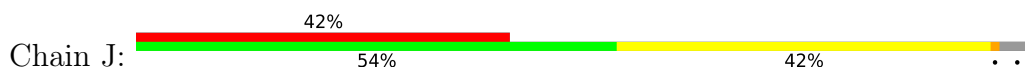


● Molecule 1: Adenosine deaminase

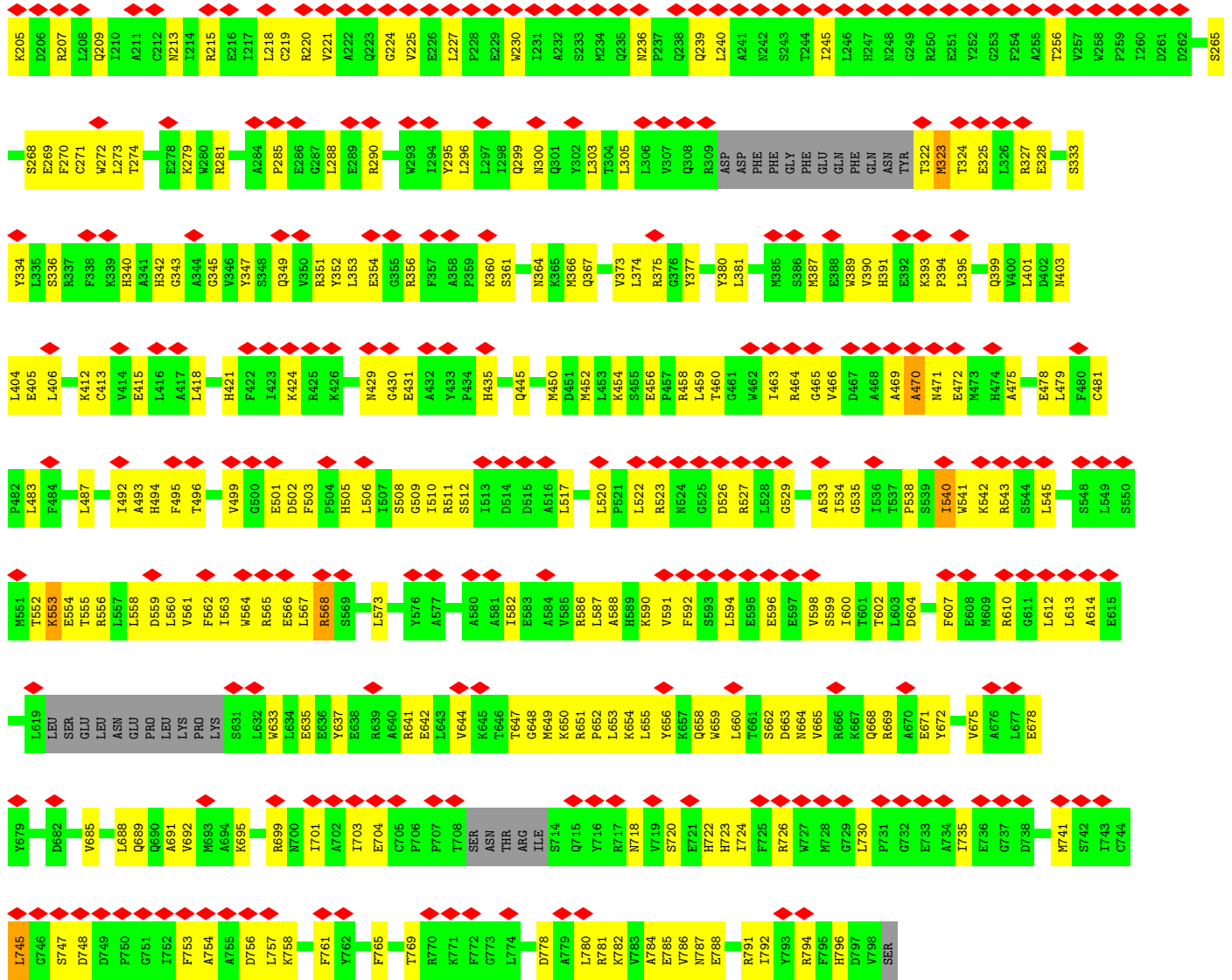




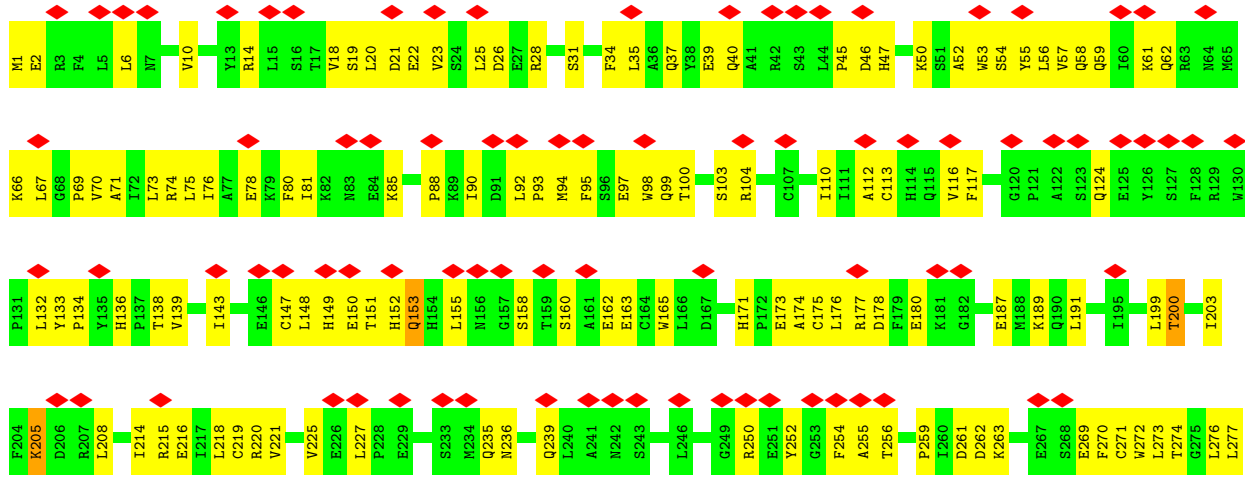
• Molecule 1: Adenosine deaminase

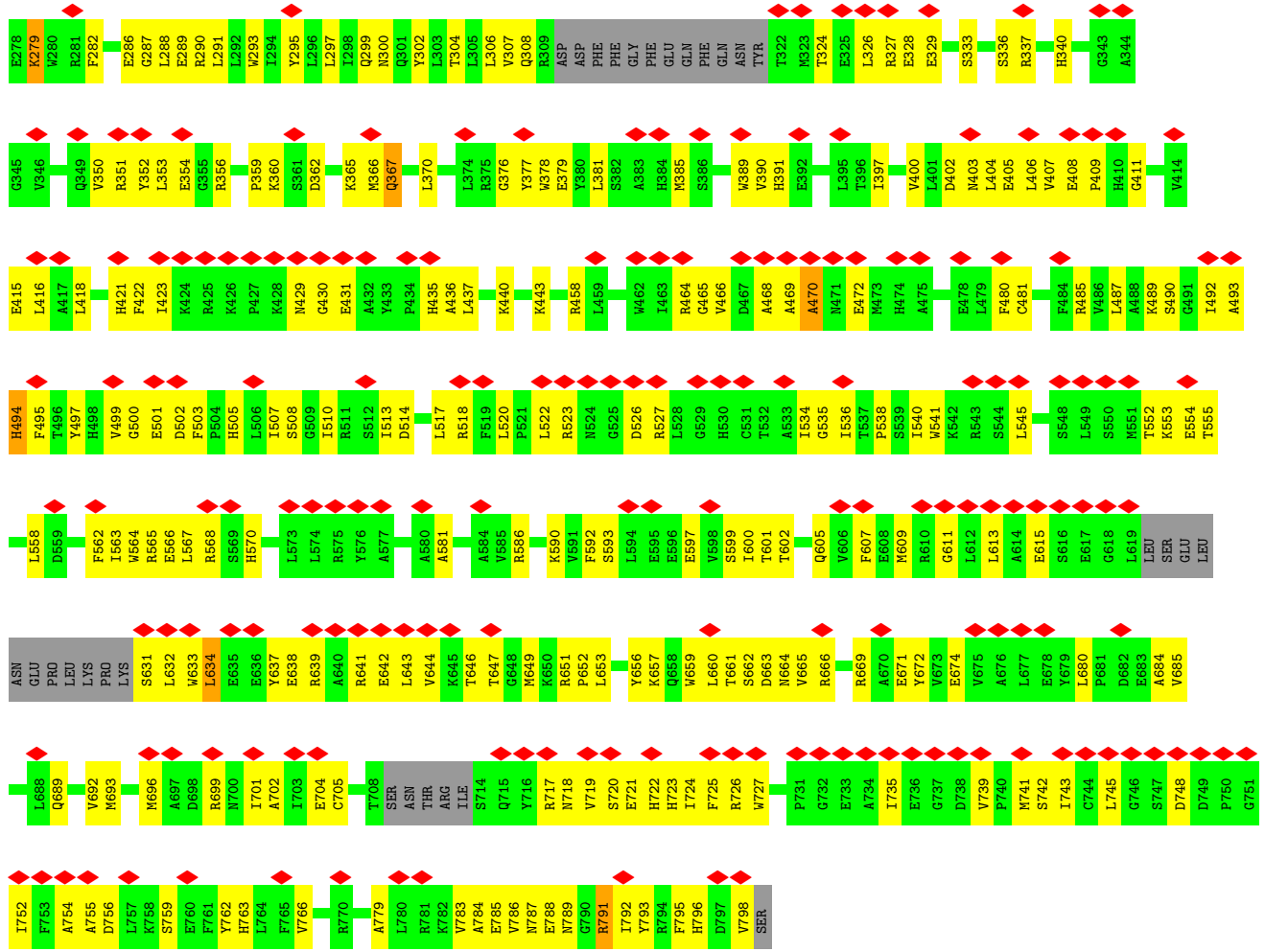




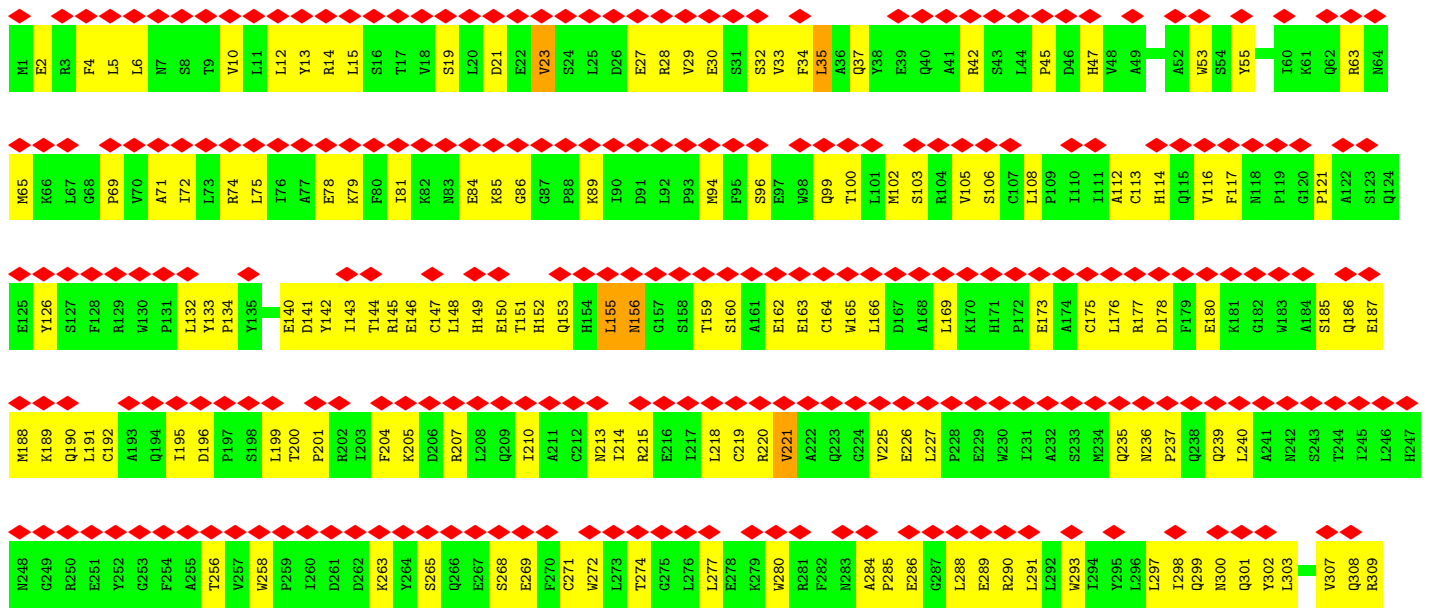


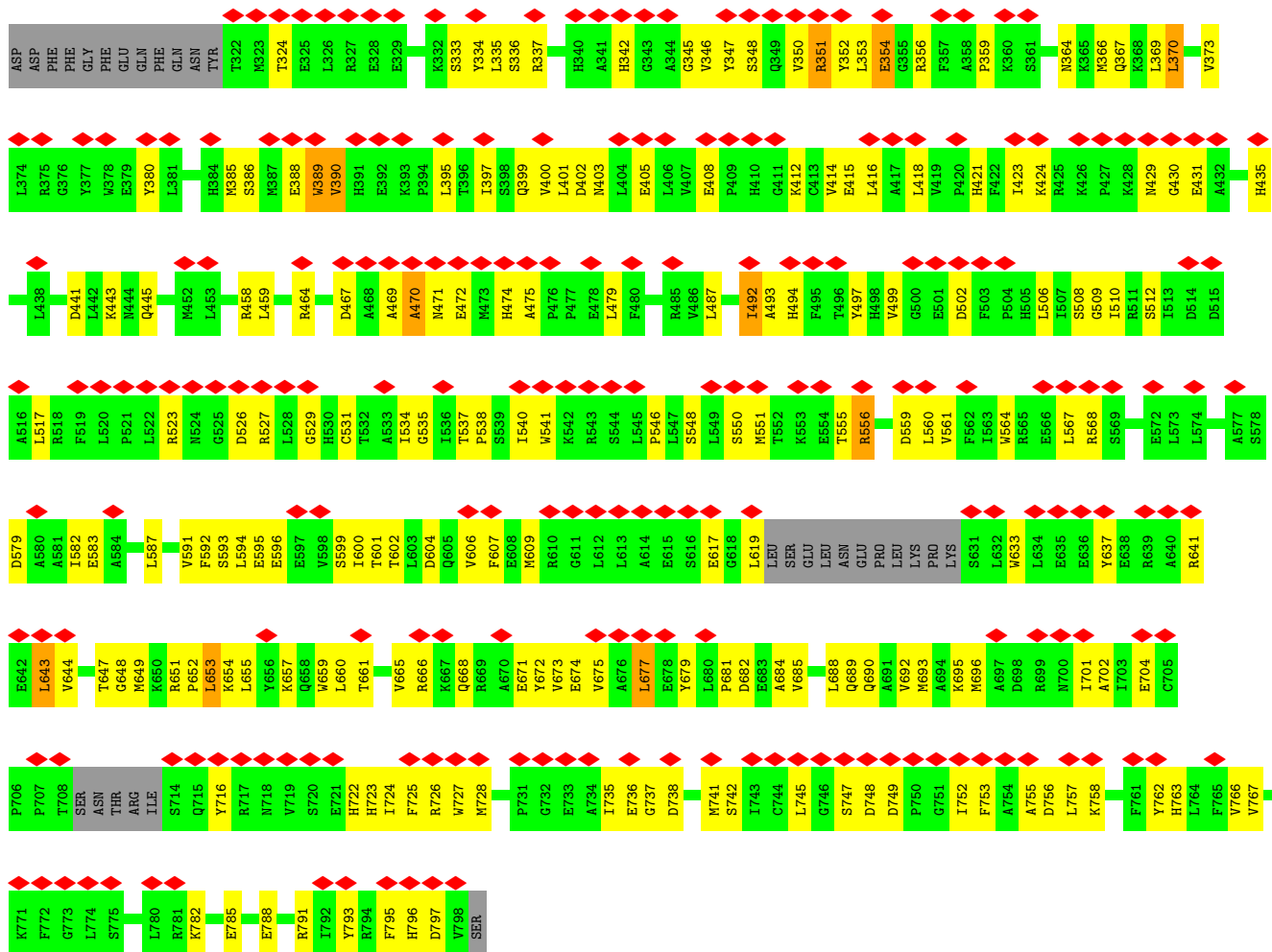
• Molecule 1: Adenosine deaminase



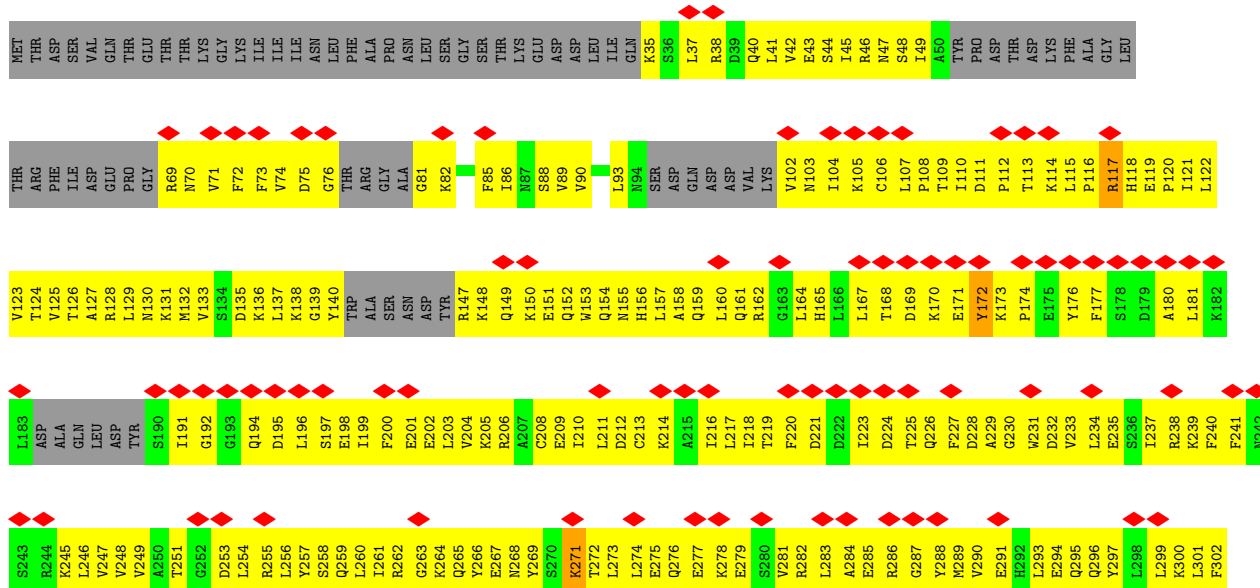
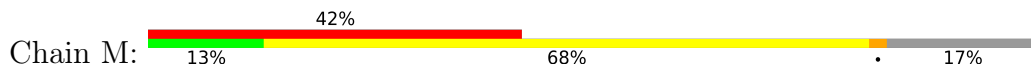


• Molecule 1: Adenosine deaminase





• Molecule 2: Archaeal ATPase



P303	V304	Q305	K306	R307	I308	Q309	L310	K311	T312	M313	L314	Q315	L316	V317	G318	E319	K320	G321	K322	A323	G324	K325	E326	E327	I328	K329	V330	K331	T332	E333	P334	S335	M336	Q337	D338	I339	G340	A341	I342	D343	V344	R345	Q346	A347	I348	G349	D350	A351	R352	R353	E354	G355	L356	N357	L358	R359	E360	G361	S362	D363	A364	D365	M366	Y367	V368	N369	E370	L371	L372	K373	Q374	P375	V376	R377	L378	L379	M380	Q381	V382	L383	Q384	D385	F386	Y387	T388	K389	K390	V391	H392	A393	T394	S395	VAL	LYS	LEU	ASP	GLY	ARG	LYS	GLN	SER	GLU	ASP	ARG	ASN	GLU	S412	V413	P414	N415	L416	R417	A418	N419	A420	L421	Y422	G423	S424	M425	L426	S427	N428	I429	Y430	R431	A432	G433	L434	M435	Y436	E437	Q438	H439	R440	F441	G442	M443	D444	S445	S446	L446	C447	K448	D449	I450	F451	T452	Y453	V454	K455	Q456	D457	R458	D459	F460	M461	T462	G463	F464	Y465	L466	R467	P468	Q469	S470	E471	S472	A473	A474	L475	R476	N477	C478	S479	I480	Y481	L482	A483	S484	Q485	V486	E487	M488	M489	Q489	Q491	G492	S493	L494	S495	K496	F497	L498	Q499	M500	L501	V502	V503	G504	C505	G506	S507	V508	S509	I510	F511	N512	Q513	F514	V515	T516	L518	A519	ALA	GLU	ASN	D524	R525	E526	K527	F528	E529	Q530	L531	I532	S533	E534	Y535	V536	A537	Y538	M539	S540	V541	G542	R543	I544	E545	S546	A547	S548	H549	M550	A551	N552	R553	C554	C555	A556	V557	V558	A559	N560	N561	P562	N563	D564	E565	K566	I567	G568	V569	F570	L571	F572	G573	M574	V574	Q575	L576	L577	N577	R578	K579	S580	R581	Q582	N583	M584	P585	E586	G587	Y588	K589	K590	F591	N592	I593	D594	T595	E596	N597	G598	L599	A600	K601	A602	A603	M604	A605	S606	S607	L608	S609	T610	V611	A612	S613	N614	M615	L616	M617	M618	F619	C620	S621	F622	F623	N624	L625	I626	G627	A628	I629	A630	D631	I632	S633	A634	C635	R636	C637	E638	R639	S640	A641	T642	T643	N644	A645	F646	N647	K648	V649	A651	Q652	T653	T654	C655	L656	V657	P658	P659	W660	S661	GLU	ALA	ALA	VAL	ARG	ALA	GLU	MET	LYS	GLY	SER	LYS	SER	LYS	SER	ALA	ASP	ASN	ASP	ALA	ALA	VAL	LEU	ASP	VAL	ASP	LEU	ASP	PRO	LYS	LYS	ASP	ASP	ASP	GLY	VAL	ILE	ASP	ALA	A704	E705	F706	S707	D708	A709	I710	T711	K712	V713	F714	Q715	W716	L717	K718	N719	V720	N721	E722	I723	E724	I725	G726	I727	R728	P729	S730	A731	L732	L733	I734	G735	K736	V737	W738	S739	R740	F741	F742	F743	N744	L745	N746	N747	V748	A749	D750	W751	H752	K753	T754	R755	L756	Y757	R758	N759	A760	E761	H762	G763	R764	N765	A766	S767	Q768	S769	N770	A771	A772	K773	I774	W775	R776	F777	N778	V779	L780	A781	F782	L783	H784	A785	V786	L787	V788	E789	E790	S791	L792	Y793	H794	S795	V796	W797	D798	R799	E800	Y801	L802	G803	E804	L806	R807	L808	N809	P810	W811	W814	D815	E816	F817	E818	K819	K820	L821	K822	L823	L824	E826	K827	L828	K829	A830	D831	N832	K833	T834	W835	L836	T837	T838	H839	P840	L841	F842	F843	L844	L845	I846	S847	C848	F849	L850	L851	H852	P853	F854	I855	F856	P857	I858	S859	C860	L861	N862	C863	S864	V865	K866	A867	L868	N869	K870	E871	T872	S873	F874	K875	L877	L878	D879	E880	L881	W882	G883	D884	K885	L886	S888	P889	E890	E891	W892	D893	Y894	L895	T896	K897	ASN	ASN	ASP	GLN	LYS	THR
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• Molecule 2: Archaeal ATPase



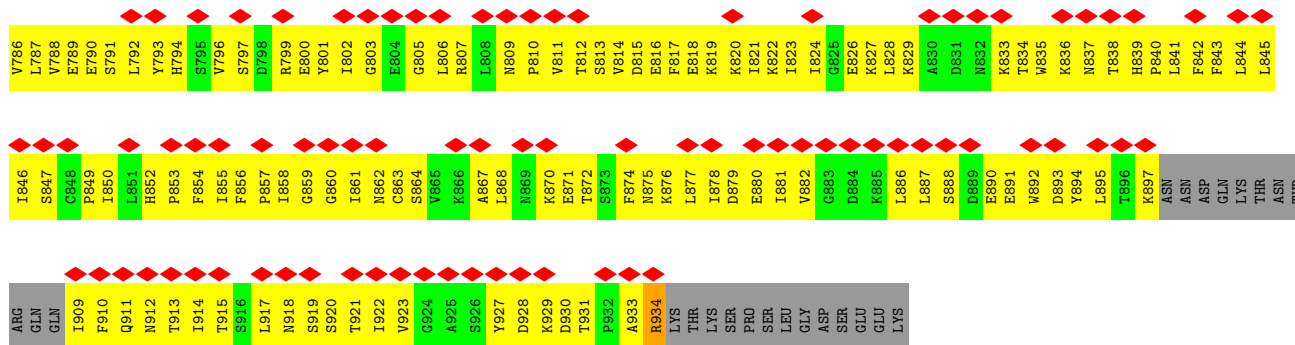
MET	THR	THR	ASP	SER	VAL	GLN	GLN	PRO	THR	GLY	THR	THR	THR	LYS	GLY	LYS	LYS	ILE	ILE	ILE	LEU	ASN	LEU	ASP	PHE	ALA	PRO	PRO	ASN	Y923	L923	C863	S864	V865	S924	A925	S926	Y927	D928	K929	P930	Y931	P932	A933	R934	LYS	THR	LYS	LYS	PRO	PRO	SER	LEU	LEU	LEU	ILE	ILE	K35	S92	L93	SER	S36	L37	R38	D39	Q40	L41	V42	E43	S44	I45	R46	N47	S48	A50	TYR	PRO	ASP	THR	ASP	LYS	PHE	ALA	ALA	GLY	LEU	THR	ARG	ARG	GLY	ALA	G81	K82	T83	F84	F85	I86	N87	S88	W89	V90	R91	S92	L93	SER	N94	ASP	GLN	ASP	ASP	VAL	LYS	V102	M103	I104	K105	C106	L107	P108	T109	I110	D111	P112	T113	K114	L115	P116	R117	H118	E119	P120
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I121	I122	K245	V123	V124	V125	V126	A127	L128	L129	M130	K131	M132	V133	S134	D135	K136	L137	K138	K139	Y140	TRP	ALA	SER	ASN	ASP	TYR	R147	K148	Q149	K150	E151	Q152	V153	Q154	M155	H156	A157	A158	Q159	L160	Q161	R162	G163	L164	H165	L166	L167	T168	D169	K170	E171	Y172	K173	L174	P174	Q175	E176	F177	S178	D179	A180
L181	K182	L183	ASP	ALA	GLN	LEU	ASP	S190	G252	I191	G192	G193	G194	D195	L196	S197	E198	I199	F200	E201	E202	L203	V204	K205	R206	I210	L211	D212	C213	K214	A215	I216	L217	I218	T219	F220	D221	D222	I223	D224	T225	Q226	F227	D228	A229	G230	E231	H232	L233	Q234	Q235	E236	L237	L238	K239	F240	F241	N242			
S243	R244	K245	L246	V247	V248	V249	A250	T251	D252	D253	L254	R255	L256	Y257	Q258	Q259	L260	I261	R262	G263	K264	Q265	Y266	E267	N268	Y269	S270	K271	T272	L273	L274	E275	Q276	E277	K278	E279	S280	Y281	R282	L283	A284	E285	R286	G287	M288	V289	E290	E291	H292	L293	E294	Q295	Q296	Y297	L298	L299	K300	L301	F302		
P303	V304	Q305	K306	R307	I308	Q309	L310	K311	T312	M313	L314	Q315	L316	V317	G318	E319	K320	G321	K322	A323	G324	K325	E326	E327	I328	K329	V330	K331	T332	E333	P334	S335	M336	Q337	D338	I339	D340	A341	I342	V344	R345	G349	D350	V352	R353	Q354	E354	G355	L356	N357	L358	R359	E360	E361	S362						
D363	A364	D365	M366	Y367	V368	N369	E370	L371	L372	K373	Q374	P375	V376	R377	L378	L379	M380	Q381	V382	L383	Q384	D385	E386	Y387	T388	K389	K390	Y391	H392	A393	T394	S395	VAL	LYS	LEU	ASP	GLY	LYS	GLN	ARG	ASN	ASP	PRO	ASP	GLU	S412	V413	P414	M415	L416	L417	R418	M419	A420	L421	Y422					
G423	S424	M425	L426	S427	M428	L429	Y430	R431	A432	G433	L434	M435	Y436	E437	Q438	H439	R440	F441	G442	M443	D444	S445	L446	C447	K448	D449	L450	F451	G452	Y453	Y454	V455	K456	Q456	D457	R458	D459	F460	M461	G463	F464	Y465	L466	P468	Q469	S470	E471	S472	E473	A474	L475	M477	C478	S479	I480	Y481	L482				
A483	S484	Q485	V486	S487	C489	Q491	G492	L494	S495	F497	L498	Q499	M500	L501	L502	V503	G504	G505	G506	S507	V508	S509	F510	F511	N512	Q513	F514	V515	T516	E517	L518	A519	ARG	ALA	GLU	ASN	D524	R525	E526	K527	F528	E529	Q530	L531	L532	S533	E534	Y535	V536	A537	Y538	M539	S540	V541	G542	R543					
I544	E545	S546	A547	H549	M550	A551	N552	R553	C554	C555	A556	V557	V558	A559	N560	S561	P562	N563	D564	E565	K566	L567	G568	V569	F570	L571	G572	L573	M574	G575	L576	N577	R578	K579	S580	R581	Q582	N583	M584	P585	E586	G587	Y588	K589	K590	L591	N592	L593	D594	T595	E596	N597	G598	L599	K601	A602	A603				
M604	A605	S606	S607	L608	S609	T610	V611	A612	S613	M614	N615	L616	M617	D618	F619	C620	S621	V622	F623	N624	L625	L626	L629	A630	D631	L632	S633	A634	C635	R636	C637	E638	R639	S640	A641	L642	T643	N644	A645	F646	N647	K648	V649	L650	A651	D652	T653	T654	C655	L656	V657	P658	F659	M660	S661	GLU	ALA	ALA			
VAL	ARG	ALA	GLU	MET	LYS	SER	SER	LYS	SER	ALA	ASP	ASN	ASP	ALA	VAL	LEU	ASP	VAL	ASP	LEU	ASP	PRO	LYS	ASP	ASP	GLY	VAL	TLE	ASP	GLU	SER	GLN	GLN	ASP	ALA	T704	E705	F706	S707	D708	A709	I710	T711	K712	V713	E714	Q715	M716	L717	K718	N719	V720	N721	E722	E724						
I725	G726	L727	R728	P729	S730	A731	L732	L733	H734	G735	K736	V737	W738	S739	R740	F741	Y742	F743	N744	L745	N746	N747	W748	A749	D750	Q751	H752	K753	T754	R755	L756	Y757	R758	M759	A760	E761	H762	G763	R764	M765	A766	S767	Q768	S769	N770	A771	A772	K773	L774	M775	R776	F777	N778	V779	L780	A781	F782	L783	H784		
A785	V786	L787	V788	E789	E790	S791	L792	H794	S795	V796	S797	G800	L801	R802	E803	E804	G805	L806	R807	L808	R809	P810	H811	T812	S813	H814	D815	E816	E817	F818	E819	K819	K820	I821	R822	L823	I824	G825	E826	R827	L828	K829	K833	T834	H835	K836	M837	T838	H839	ASP	ASP	GLN	LYS	L841	F842	F843	L844	L845	L846		
S847	C848	P849	I850	L851	H852	P853	F854	I855	F856	P857	I858	G859	G860	L861	H862	C863	S864	H865	K866	A867	L868	H869	K870	E871	T872	S873	F874	H875	K876	L877	L878	D879	E880	L881	V882	H883	D884	K885	L886	L887	I888	S889	E890	H891	H892	D893	Y894	L895	T896	K897	ASN	ASN	ASP	GLN	LYS	THR	ASN	THR	ARG		
GLN	GLN	I909	F910	Q911	N912	T913	I914	T915	S916	L917	N918	S919	G920	S921	T921	I922	S923	G924	A925	S926	Y927	D928	K929	E930	T931	P932	H933	R934	THR	THR	L937	E938	S939	L940	PRO	SER	SER	GLY	ASP	SER	GLU	GLU	LYS																		

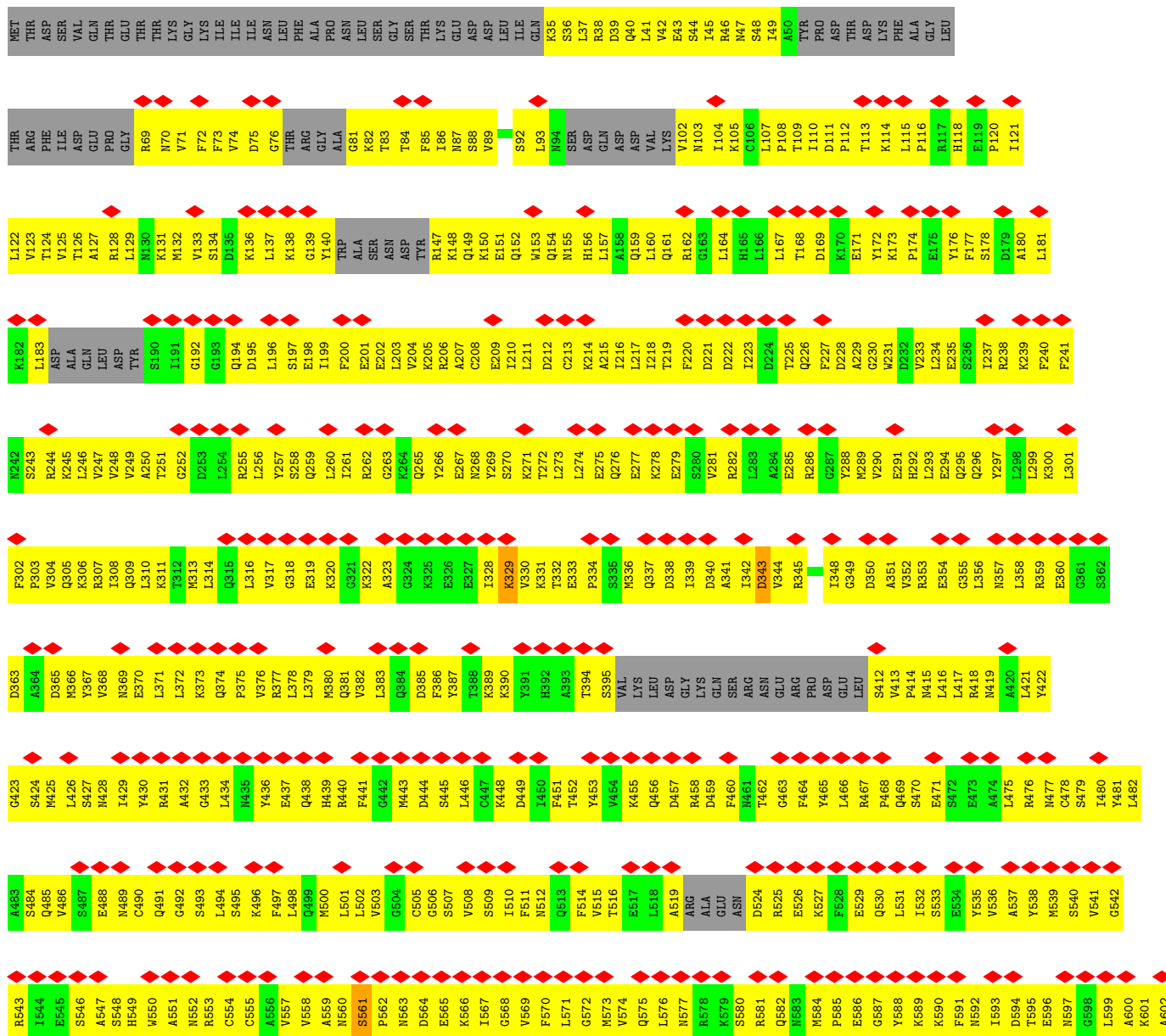
● Molecule 2: Archaeal ATPase

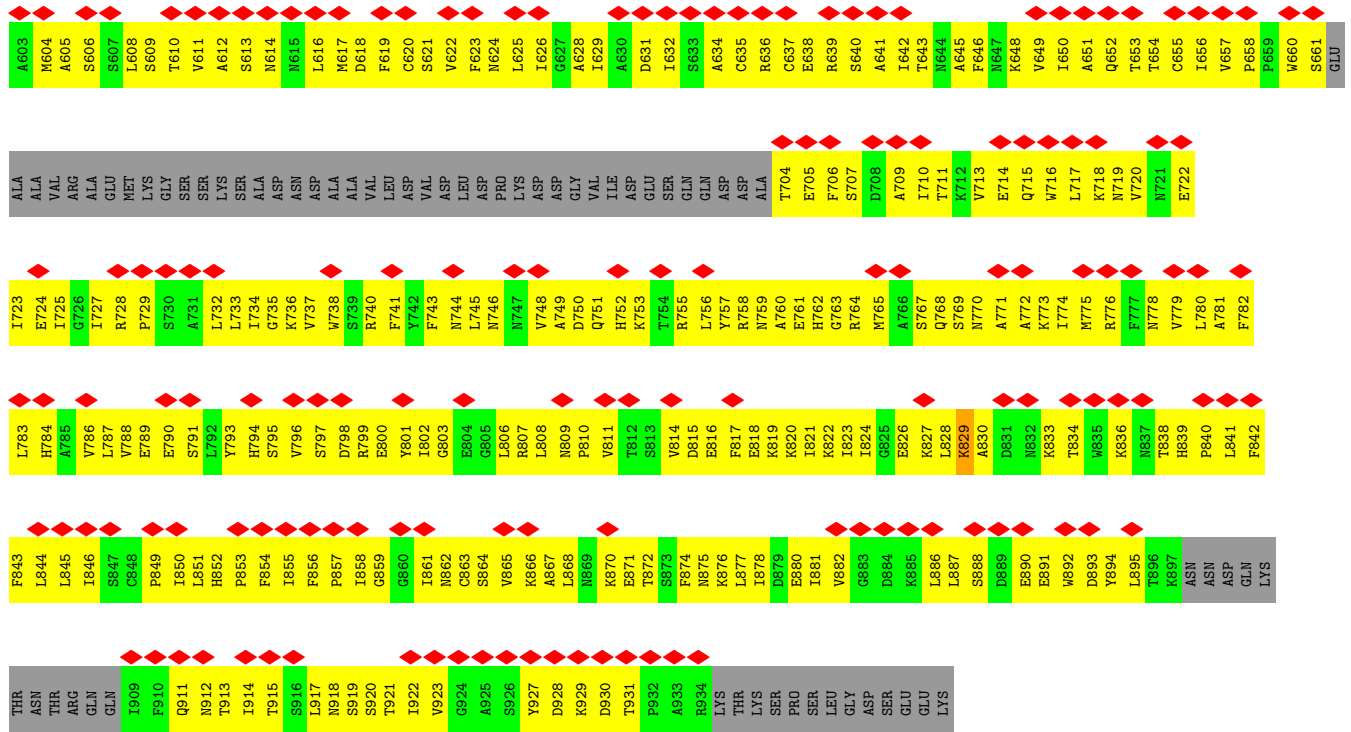


MET	THR	ASP	SER	VAL	GLN	THR	THR	GLU	LYS	LYS	GLY	LYS	ILE	ILE	ILE	ASN	LEU	PHE	ALA	PRO	ASN	LEU	SER	GLY	SER	THR	LYS	GLU	ASP	LEU	ILE	GLN	K35	S36	L37	R38	D39	Q40	L41	V42	E43	S44	I45	R46	N47	S48	I49	A50	TYR	PRO	ASP	THR	ASP	THR	ASP	LYS	LYS	PHE	ALA	GLY	LEU	
THR	ARG	PHE	ILE	ASP	GLU	PRO	GLY	R69	N70	V71	F72	F73	V74	D75	G76	THR	ARG	GLY	ALA	ALA	G81	K82	R83	T84	F85	L86	N87	S88	V89	V90	K91	S92	L93	N94	SER	GLN	ASP	ASP	ASP	ASP	VAL	VAL	LYS	V102	N103	I104	K105	C106	L107	P108	T109	I110	D111	P112	T113	K114	L115	P116	R117	H118	E119	P120
V123	R128	L129	M130	M132	V133	S134	D135	K136	L137	K138	G139	I140	TRP	ALA	SER	ASN	ASP	THR	R147	K148	Q149	E151	Q152	W153	I154	M155	H156	L157	L159	A158	I159	L160	Q161	R162	C163	L164	H165	L166	L167	T168	D169	K170	E171	I172	P174	E175	Y176	F177	S178	D179	A180	L181	L183	ASP								
ALA	GLN	LEU	ASP	TYR	S190	I191	G192	G193	I194	D195	L196	S197	E198	I199	F200	E201	V204	R206	A207	C208	E209	I210	L211	K212	Q213	K214	A215	I216	L218	T219	F220	D221	D222	L223	D224	T225	Q226	F227	D228	A229	G230	V231	D232	V233	L234	E235	F177	S178	D179	A180	L181	L183	ASP									
L246	V247	V248	V249	A250	T251	G252	D253	L254	R255	L256	Y257	S258	Q259	L260	L261	R262	G263	K264	Q265	Y266	E267	N268	Y269	S270	K271	T272	L273	E274	E275	E276	E277	K278	E279	V281	R282	L283	A284	E285	R286	C287	Y288	M289	V290	E291	L293	E294	Q295	Q296	Y297	L298	L299	K300	L301	F302	P303	V304	Q305					
K306	R307	I308	Q309	L310	K311	T312	M313	L314	Q315	L316	V317	G318	E319	K320	G321	K322	A323	G324	K325	E326	E327	K328	K329	V330	T332	K333	P334	S335	M336	Q337	D338	I339	A341	I342	D343	V344	R345	Q346	A347	I348	C349	D350	A351	V352	R353	E354	G355	L356	N357	L358	R359	E360	G361	D363	A364	D365						
M366	Y367	V368	N369	E370	L371	L372	K373	Q374	P375	V376	R377	L378	L379	M380	R440	Q381	V382	L383	Q384	R385	F386	Y387	T388	K389	K390	Y391	H392	A393	T394	S395	VAL	LYS	LEU	ASP	GLY	LYS	GLN	SER	ARG	ASN	ASN	S412	V413	P414	M415	L416	L417	R418	M419	A420	L421	Y422	G423	S424	M425							
L426	S427	M428	I429	Y430	R431	A432	G433	M434	Y436	E437	Q438	H439	R440	F441	G442	M443	D444	S445	L446	C447	K448	D449	I450	F451	T452	Y453	V454	K455	Q456	D457	R458	D459	F460	M461	T462	G463	F464	Y465	L466	R467	P468	Q469	S470	E471	S472	A473	A474	L475	R476	M477	C478	S479	I480	Y481	L482	A483	S484	Q485				
V486	S487	E488	M489	C490	Q491	G492	L494	S495	K496	F497	L498	Q499	M500	L501	V503	G504	C505	G506	S507	V508	S509	I510	F511	N512	Q513	F514	V515	T516	E517	L518	A519	ARG	GLU	ASN	D524	R525	E526	K527	F528	E529	Q530	L531	I532	S533	E534	Y535	V536	A537	Y538	M539	S540	V541	G542	R543	I544	E545						
S546	A547	S548	H549	W550	A551	N552	R553	C554	C555	A556	V557	V558	D559	N560	S561	P562	N563	D564	E565	E566	K566	I567	G568	V569	F570	L571	G572	M573	V574	Q575	L576	N577	R578	K579	S580	R581	Q582	N583	M584	P585	E586	G587	Y588	K589	F590	F591	N592	I593	D594	T595	E596	N597	G598	L599	A600	K601	A602	A603	M604	A605		
S606	S607	L608	S609	T610	V611	A612	S613	N614	M615	L616	M617	D618	F619	C620	S621	V622	F623	N624	L625	G626	A627	A628	I629	A630	D631	I632	S633	A634	C635	R636	C637	E638	R639	S640	A641	I642	T643	N644	A645	F646	M647	K648	V649	I650	A651	Q652	T653	T654	T655	T656	C655	I656	V657	P658	P659	W660	S661	GLU	ALA	ALA	VAL	
ARG	ALA	GLU	MET	LYS	GLY	SER	SER	LYS	ALA	ASP	ASN	ASP	ALA	VAL	LEU	ASP	VAL	ASP	LEU	LEU	PRO	LYS	LYS	ASP	GLY	VAL	ILE	ASP	GLU	SER	GLN	GLM	A634	ASP	ALA	T704	F705	F706	D707	D708	A709	I710	T711	K712	V713	E714	Q715	W716	L717	K718	N719	W720	N721	E722	T723	E724	I725					
G726	I727	R728	P729	S730	T731	L732	L733	I734	G735	K736	V737	W738	S739	R740	F741	Y742	F743	N744	L745	M746	N747	V748	A749	D750	I751	H752	K753	T754	R755	L756	Y757	F758	N759	A760	E761	G762	G763	R764	M765	A766	S767	Q768	S769	M770	A771	A772	K773	I774	M775	R776	F777	N778	V779	A781	F782	L783	H784	A785				

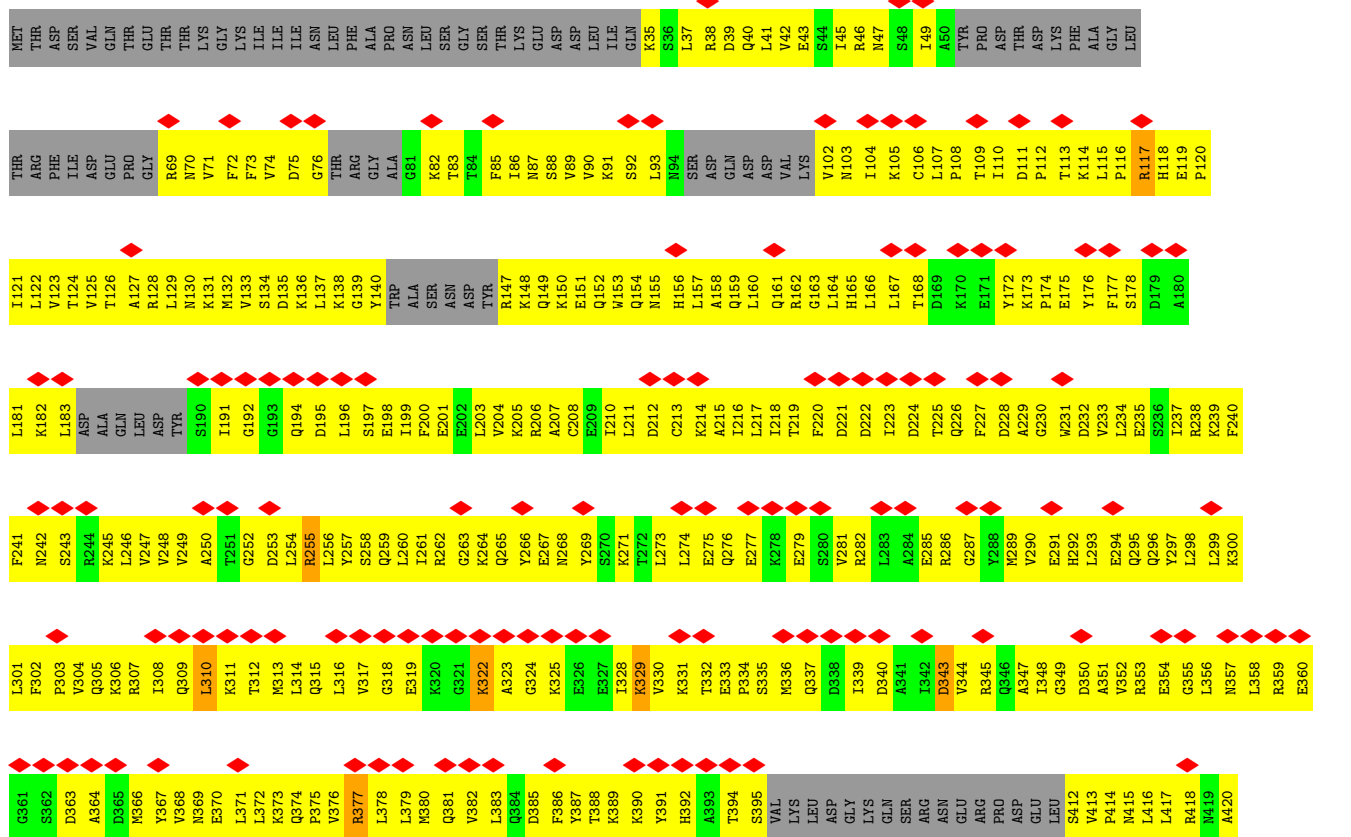
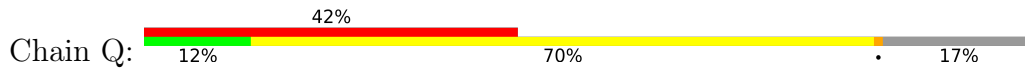


● Molecule 2: Archaeal ATPase





• Molecule 2: Archaeal ATPase

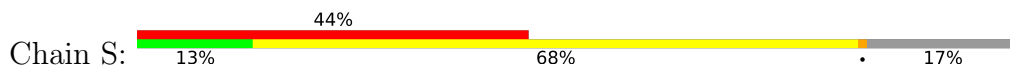






F241	F242	N242	S243	S244	K245	L246	V247	V248	V249	V249	A250	T251	G252	D253	L254	R255	L256	S257	Y258	Q259	L260	I261	R262	G263	K264	Q265	Y266	E267	N268	Y269	S270	K271	L272	L273	L274	Q276	E277	K278	E279	S280	V281	R282	L283	A284	E285	R286	G287	Y288	M289	V290	E291	H292	L293	E294	Q295	Q296	Y297	K300	L301																	
F302	P303	V304	Q305	K306	R307	I308	Q309	L310	K311	T312	M313	K314	Q315	L316	V317	G318	E319	K320	G321	K322	A323	G324	K325	E326	E327	I328	K329	V330	K331	T332	E333	P334	S335	M336	Q337	D338	I339	D340	A341	I342	V344	R345	Q346	A347	I348	G349	D350	A351	V352	R353	E354	G355	L356	N357	L358	R359	E360	G361																		
S362	A363	A364	M365	M366	V367	V368	I369	E370	L371	L372	K373	Q374	P375	V376	R377	L378	L379	M380	Q381	V382	L383	Q384	D385	F386	Y387	I388	K389	K390	Y391	H392	A393	T394	S395	VAL	LYS	LEU	ASP	GLY	LYS	GLN	SER	ARG	ASN	ASN	GLU	ARG	PRO	ASP	GLU	LEU	S412	V413	P414	N415	L416	L417	R418	N419	A420	L421																
Y422	G423	S424	M425	L426	S427	M428	I429	Y430	R431	A432	G433	L434	M435	Y436	E437	Q438	H439	R440	F441	G442	M443	D444	S445	L446	C447	K448	D449	I450	F451	T452	Y453	Y454	K455	Q456	D457	R458	D459	F460	N461	T462	G463	F464	Y465	L466	R467	P468	Q469	S470	E471	S472	E473	A474	L475	R476	N477	C478	S479	I480	Y481																	
L482	A483	S484	Q485	S487	M488	C489	Q491	G492	S493	L494	S495	K496	F497	L498	Q499	M500	L501	L502	V503	G504	C505	G506	S507	V508	I510	F511	Q513	F514	T452	Y453	T516	E517	L518	ARG	ALA	GLU	ASN	D524	R525	E526	K527	F528	E529	Q530	L531	I532	S533	E534	Y535	V536	A537	E538	M539	S540	V541																					
G542	R543	I544	E545	S546	S548	H549	M550	A551	M552	R553	C554	C555	A556	V557	V558	A559	L560	S561	P562	M563	D564	E565	K566	I567	G568	V569	F570	L571	G572	M573	V574	Q575	L576	N577	R578	K579	S580	A581	Q582	M583	P585	E586	G587	Y588	K589	K590	F591	N592	I593	D594	T595	E596	N597	G598	L599	K601																				
A602	A603	M604	A605	S606	L608	S609	T610	V611	A612	S613	M614	N615	L616	M617	D618	F619	C620	S621	V622	F623	N624	L625	I626	A628	I629	A630	D631	I632	S633	A634	C635	R636	C637	E638	R639	S640	A641	I642	T643	N644	A645	K648	V649	L650	A651	Q652	T653	T654	T655	T656	T657	T658	T659	T660	T661	T662	T663	T664	T665	T666	T667	T668	T669	T670	T671	T672	T673	T674	T675	T676	T677	T678	T679	T680	T681	T682
ALA	ALA	VAL	ARG	ALA	GLU	MET	LYS	SER	SER	LYS	SER	ALA	ASP	ASP	ALA	VAL	LEU	ASP	VAL	ASP	LEU	ASP	GLY	VAL	ILE	ASP	GLN	SER	GLN	GLN	ASP	ASP	ALA	T704	E705	F706	S707	D708	A709	I710	T711	K712	V713	E714	Q715	W716	L717	K718	N719	W720	N721	E722																								
I723	E724	I725	G726	R727	R728	P729	S730	A731	L732	L733	I734	G735	K736	V737	W738	S739	R740	F741	Y742	F743	N744	L745	N746	N747	V748	A749	Q751	H752	K753	T754	R755	L756	Y757	R758	N759	A760	E761	H762	G763	R764	M765	A766	S767	Q768	N769	N770	A771	A772	K773	I774	M775	R776	F777	N778	V779	L780	A781	F782																		
L783	H784	V785	L786	L787	V788	E789	S791	L792	L793	H794	S795	V796	S797	D798	R799	E800	Y801	L802	G803	E804	G805	L806	R807	L808	N809	P810	W811	T812	S813	W814	D815	E816	R817	E880	E881	V882	G883	D884	R885	L886	L887	S888	D889	E890	E891	W892	D893	Y894	L895	T896	K897	ASN	ASN	ASP	GLN	LYS	F842																			
F843	L844	L845	I846	S847	C848	P849	I850	L851	H852	P853	F854	I855	F856	P857	L858	C859	C860	I861	H862	C863	S864	K865	A867	L868	N869	K870	E871	S872	S873	F874	N875	K876	L877	I878	P879	E880	I881	V882	G883	D884	R885	L886	L887	S888	D889	E890	E891	W892	D893	Y894	L895	T896	K897	ASN	ASN	ASP	GLN	LYS	F842																	
THR	THR	THR	ARG	VAL	GLN	THR	THR	THR	LYS	LYS	LYS	ILE	ILE	ILE	ASN	LEU	LEU	PHE	ALA	PRO	ASN	ASN	LEU	LEU	LEU	LEU	ILE	GLN	K35	S36	L37	R38	D39	Q40	L41	V42	E43	S44	I45	R46	N47	S48	L49	A50	TVR	PRO	ASP	THR	LYS	PHE	ALA	GLY	LEU																							

• Molecule 2: Archaeal ATPase



MET	THR	THR	ASP	ARG	VAL	GLN	GLN	THR	THR	THR	LYS	LYS	LYS	ILE	ILE	ILE	ASN	LEU	LEU	PHE	ALA	PRO	ASN	ASN	LEU	LEU	ILE	GLN	K35	S36	L37	R38	D39	Q40	L41	V42	E43	S44	I45	R46	N47	S48	L49	A50	TVR	PRO	ASP	THR	LYS	PHE	ALA	GLY	LEU
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THR	I121	L181	F241	L301	G361	L421	Y481	W541	A602	GLU	F782	F842	F842	F843	L844	L845	L846	S847	C848	P849	I850	L851	H852	H853	H854	I855	P856	P857	I858	C859	G860	I861	M862	S863	S864	V865	K866	A867	L868	L869	M870	M871	M872	S873	S874	S875	S876	S877	S878	S879	S880	S881	S882	S883	S884	S885	S886	S887	S888	S889	S890	S891	S892	S893	S894	S895	S896	S897	S898	S899	S900	S901	S902	S903	S904	S905	S906	S907	S908	S909	S910	S911	S912	S913	S914	S915	S916	S917	S918	S919	S920	S921	S922	S923	S924	S925	S926	S927	S928	S929	S930	S931	S932	S933	S934	S935	S936	S937	S938	S939	S940	S941	S942	S943	S944	S945	S946	S947	S948	S949	S950	S951	S952	S953	S954	S955	S956	S957	S958	S959	S960	S961	S962	S963	S964	S965	S966	S967	S968	S969	S970	S971	S972	S973	S974	S975	S976	S977	S978	S979	S980	S981	S982	S983	S984	S985	S986	S987	S988	S989	S990	S991	S992	S993	S994	S995	S996	S997	S998	S999	F1000
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LYS	THR	ASN	THR	ARG	GLN	GLN	I909	F910	Q911	N912	T913	I914	T915	S916	L917	N918	S919	S920	T921	I922	V923	G924	A925	S926	Y927	D928	K929	D930	T931	P932	A933	R934	LYS	THR	LYS	SER	PRO	SER	SER	LEU	GLY	ASP	SER	GLU	GLU	LYS
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## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	9236	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	49	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	7.256	Depositor
Minimum map value	-3.896	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.303	Depositor
Recommended contour level	1.9	Depositor
Map size ( $\text{\AA}$ )	659.9987, 659.9987, 659.9987	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	2.57812, 2.57812, 2.57812	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

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

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	0.30	0/6400	0.64	18/8672 (0.2%)
1	B	0.30	0/6400	0.62	17/8672 (0.2%)
1	C	0.33	0/6400	0.63	13/8672 (0.1%)
1	D	0.34	1/6375 (0.0%)	0.62	10/8637 (0.1%)
1	E	0.32	0/6400	0.63	14/8672 (0.2%)
1	F	0.32	0/6400	0.63	16/8672 (0.2%)
1	G	0.31	0/6400	0.59	13/8672 (0.1%)
1	H	0.31	0/6400	0.65	21/8672 (0.2%)
1	I	0.32	0/6400	0.63	14/8672 (0.2%)
1	J	0.31	0/6400	0.61	13/8672 (0.1%)
1	K	0.33	0/6400	0.63	11/8672 (0.1%)
1	L	0.31	0/6400	0.65	22/8672 (0.3%)
2	M	0.28	0/6379	0.50	2/8592 (0.0%)
2	N	0.29	0/6379	0.51	1/8592 (0.0%)
2	O	0.28	0/6379	0.49	2/8592 (0.0%)
2	P	0.28	0/6379	0.51	1/8592 (0.0%)
2	Q	0.28	0/6379	0.50	1/8592 (0.0%)
2	R	0.28	0/6379	0.50	2/8592 (0.0%)
2	S	0.29	0/6379	0.51	2/8592 (0.0%)
All	All	0.31	1/121428 (0.0%)	0.58	193/164173 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	1
1	E	0	1
1	H	0	2
1	I	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	J	0	1
1	K	0	1
1	L	0	1
2	N	0	1
All	All	0	9

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	45	PRO	CG-CD	-5.40	1.32	1.50

All (193) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	647	THR	C-N-CA	14.53	152.82	122.30
1	A	650	LYS	CD-CE-NZ	12.84	141.23	111.70
1	B	695	LYS	CD-CE-NZ	12.51	140.46	111.70
1	K	205	LYS	CD-CE-NZ	12.12	139.58	111.70
1	J	553	LYS	CD-CE-NZ	11.97	139.23	111.70
1	I	339	LYS	CD-CE-NZ	11.71	138.63	111.70
1	K	189	LYS	CD-CE-NZ	11.68	138.57	111.70
1	I	360	LYS	CD-CE-NZ	11.60	138.38	111.70
1	H	189	LYS	CD-CE-NZ	11.49	138.12	111.70
1	B	66	LYS	CD-CE-NZ	11.46	138.06	111.70
1	L	443	LYS	CD-CE-NZ	11.43	137.98	111.70
1	A	443	LYS	CD-CE-NZ	11.42	137.97	111.70
1	B	771	LYS	CD-CE-NZ	11.37	137.86	111.70
1	C	590	LYS	CD-CE-NZ	11.29	137.65	111.70
1	J	650	LYS	CD-CE-NZ	11.20	137.45	111.70
1	G	650	LYS	CD-CE-NZ	11.02	137.04	111.70
1	L	695	LYS	CD-CE-NZ	10.86	136.67	111.70
1	E	189	LYS	CD-CE-NZ	10.73	136.37	111.70
1	B	354	GLU	C-N-CA	9.71	142.69	122.30
1	D	226	GLU	C-N-CA	9.33	145.03	121.70
1	H	85	LYS	C-N-CA	9.33	141.90	122.30
1	A	85	LYS	C-N-CA	9.27	141.77	122.30
1	E	354	GLU	C-N-CA	9.25	141.72	122.30
1	K	354	GLU	C-N-CA	9.21	141.64	122.30
1	G	354	GLU	C-N-CA	9.19	141.60	122.30
1	C	354	GLU	C-N-CA	9.09	141.40	122.30
1	C	85	LYS	C-N-CA	9.07	141.35	122.30
1	H	354	GLU	C-N-CA	8.94	141.06	122.30

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*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	354	GLU	C-N-CA	8.79	140.76	122.30
1	J	354	GLU	C-N-CA	8.78	140.73	122.30
1	F	354	GLU	C-N-CA	8.74	140.65	122.30
1	D	45	PRO	N-CD-CG	-8.72	90.12	103.20
1	I	354	GLU	C-N-CA	8.71	140.59	122.30
1	A	354	GLU	C-N-CA	8.68	140.52	122.30
1	D	354	GLU	C-N-CA	8.42	139.99	122.30
1	A	469	ALA	C-N-CA	8.19	142.17	121.70
1	K	469	ALA	C-N-CA	7.98	141.66	121.70
1	G	323	MET	CB-CG-SD	7.97	136.33	112.40
1	H	469	ALA	C-N-CA	7.93	141.52	121.70
1	L	493	ALA	C-N-CA	7.45	140.33	121.70
1	I	493	ALA	C-N-CA	7.43	140.28	121.70
1	H	45	PRO	N-CD-CG	-7.16	92.46	103.20
1	A	538	PRO	CA-N-CD	-7.05	101.63	111.50
1	D	673	VAL	CG1-CB-CG2	7.04	122.17	110.90
1	J	675	VAL	CG1-CB-CG2	7.00	122.10	110.90
1	F	673	VAL	CG1-CB-CG2	7.00	122.09	110.90
1	F	153	GLN	C-N-CA	6.97	139.14	121.70
1	L	153	GLN	C-N-CA	6.96	139.10	121.70
2	M	172	TYR	C-N-CA	-6.93	104.38	121.70
1	L	492	ILE	C-N-CA	6.86	138.85	121.70
1	K	798	VAL	CG1-CB-CG2	6.84	121.85	110.90
1	H	153	GLN	C-N-CA	6.75	138.59	121.70
1	I	598	VAL	CG1-CB-CG2	6.73	121.67	110.90
1	B	23	VAL	CG1-CB-CG2	6.73	121.66	110.90
1	H	260	ILE	CG1-CB-CG2	6.71	126.17	111.40
1	J	323	MET	CB-CG-SD	6.69	132.48	112.40
2	O	172	TYR	C-N-CA	-6.68	104.99	121.70
1	E	153	GLN	C-N-CA	6.68	138.40	121.70
1	G	390	VAL	CG1-CB-CG2	6.66	121.55	110.90
1	F	486	VAL	CG1-CB-CG2	6.58	121.43	110.90
2	R	172	TYR	C-N-CA	-6.57	105.29	121.70
1	K	153	GLN	C-N-CA	6.56	138.10	121.70
1	F	677	LEU	CB-CG-CD1	6.50	122.05	111.00
1	D	25	LEU	CA-CB-CG	6.50	130.25	115.30
1	L	221	VAL	CG1-CB-CG2	6.46	121.23	110.90
1	L	389	TRP	C-N-CA	6.45	137.82	121.70
1	I	221	VAL	CG1-CB-CG2	6.44	121.20	110.90
1	C	437	LEU	CB-CG-CD2	6.32	121.75	111.00
1	A	337	ARG	CG-CD-NE	6.30	125.04	111.80
1	K	437	LEU	CB-CG-CD2	6.28	121.68	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	780	LEU	CB-CG-CD2	6.27	121.66	111.00
1	A	23	VAL	CG1-CB-CG2	6.26	120.91	110.90
1	E	155	LEU	CB-CG-CD2	6.26	121.64	111.00
1	J	88	PRO	CA-N-CD	-6.23	102.77	111.50
1	K	634	LEU	CB-CG-CD2	6.21	121.55	111.00
1	F	757	LEU	CB-CG-CD2	6.20	121.54	111.00
1	G	381	LEU	CB-CG-CD1	6.20	121.53	111.00
1	L	653	LEU	CB-CG-CD2	6.19	121.53	111.00
1	H	650	LYS	CB-CG-CD	6.17	127.63	111.60
1	H	155	LEU	CB-CG-CD2	6.17	121.48	111.00
1	G	619	LEU	CB-CG-CD2	6.15	121.45	111.00
1	E	745	LEU	CB-CG-CD2	6.14	121.44	111.00
1	I	177	ARG	CA-CB-CG	6.14	126.90	113.40
1	L	155	LEU	CB-CG-CD2	6.12	121.40	111.00
1	D	293	TRP	CA-CB-CG	6.06	125.22	113.70
1	A	619	LEU	CB-CG-CD2	6.05	121.29	111.00
1	L	677	LEU	CB-CG-CD2	6.05	121.28	111.00
1	I	169	LEU	CB-CG-CD2	6.04	121.27	111.00
1	F	25	LEU	CB-CG-CD2	6.04	121.26	111.00
1	J	573	LEU	CB-CG-CD2	6.00	121.20	111.00
1	L	108	LEU	CB-CG-CD1	5.99	121.19	111.00
1	A	326	LEU	CB-CG-CD2	5.99	121.18	111.00
1	L	643	LEU	CB-CG-CD2	5.97	121.14	111.00
1	E	288	LEU	CB-CG-CD2	5.96	121.14	111.00
1	B	326	LEU	CB-CG-CD2	5.96	121.13	111.00
1	H	176	LEU	CB-CG-CD2	5.94	121.09	111.00
1	C	246	LEU	CB-CG-CD2	5.93	121.08	111.00
1	B	677	LEU	CB-CG-CD1	5.90	121.04	111.00
1	A	44	LEU	CB-CG-CD2	5.90	121.02	111.00
1	D	45	PRO	CA-N-CD	-5.89	103.25	111.50
1	E	643	LEU	CB-CG-CD2	5.89	121.02	111.00
1	B	35	LEU	CB-CG-CD1	5.89	121.01	111.00
1	C	641	ARG	CG-CD-NE	5.88	124.15	111.80
1	E	370	LEU	CB-CG-CD2	5.88	120.99	111.00
1	D	459	LEU	CB-CG-CD2	5.87	120.99	111.00
1	H	459	LEU	CB-CG-CD1	5.87	120.98	111.00
1	D	132	LEU	CB-CG-CD2	5.87	120.98	111.00
1	G	653	LEU	CB-CG-CD2	5.87	120.98	111.00
1	J	745	LEU	CB-CG-CD2	5.84	120.92	111.00
1	K	545	LEU	CB-CG-CD2	5.83	120.91	111.00
1	F	632	LEU	CB-CG-CD2	5.82	120.90	111.00
1	F	594	LEU	CB-CG-CD1	5.82	120.89	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	731	PRO	N-CD-CG	-5.79	94.51	103.20
1	F	653	LEU	CB-CG-CD2	5.78	120.83	111.00
1	A	35	LEU	CB-CG-CD2	5.78	120.83	111.00
1	I	573	LEU	CB-CG-CD1	5.78	120.82	111.00
1	L	370	LEU	CB-CG-CD1	5.78	120.82	111.00
1	G	459	LEU	CB-CG-CD2	5.76	120.79	111.00
1	L	23	VAL	C-N-CA	5.76	136.09	121.70
1	H	45	PRO	CA-N-CD	-5.75	103.44	111.50
1	B	369	LEU	CB-CG-CD2	5.75	120.78	111.00
1	B	108	LEU	CB-CG-CD2	5.75	120.77	111.00
1	I	757	LEU	CB-CG-CD1	5.73	120.74	111.00
1	F	758	LYS	CA-CB-CG	5.72	125.99	113.40
1	H	643	LEU	CB-CG-CD2	5.72	120.73	111.00
1	D	129	ARG	CG-CD-NE	5.72	123.81	111.80
1	C	545	LEU	CB-CG-CD2	5.71	120.71	111.00
1	I	573	LEU	CB-CG-CD2	5.69	120.67	111.00
1	I	757	LEU	CB-CG-CD2	5.68	120.66	111.00
2	S	172	TYR	C-N-CA	-5.68	107.50	121.70
1	E	459	LEU	CB-CG-CD1	5.68	120.65	111.00
1	G	437	LEU	CB-CG-CD1	5.64	120.59	111.00
1	H	594	LEU	CB-CG-CD2	5.64	120.59	111.00
1	J	730	LEU	CB-CG-CD1	5.63	120.58	111.00
1	E	370	LEU	CB-CG-CD1	5.62	120.55	111.00
1	L	35	LEU	CB-CG-CD2	5.61	120.54	111.00
1	L	643	LEU	CB-CG-CD1	5.61	120.53	111.00
1	C	545	LEU	CB-CG-CD1	5.59	120.51	111.00
1	K	545	LEU	CB-CG-CD1	5.59	120.50	111.00
1	H	730	LEU	CB-CG-CD2	5.58	120.49	111.00
1	C	25	LEU	CB-CG-CD1	5.58	120.49	111.00
1	B	369	LEU	CB-CG-CD1	5.55	120.44	111.00
1	G	653	LEU	CB-CG-CD1	5.55	120.44	111.00
1	F	653	LEU	CB-CG-CD1	5.55	120.43	111.00
1	G	437	LEU	CB-CG-CD2	5.54	120.42	111.00
1	J	573	LEU	CB-CG-CD1	5.53	120.40	111.00
1	H	594	LEU	CB-CG-CD1	5.53	120.40	111.00
1	C	25	LEU	CB-CG-CD2	5.52	120.38	111.00
1	L	35	LEU	CB-CG-CD1	5.52	120.38	111.00
1	L	370	LEU	CB-CG-CD2	5.51	120.37	111.00
1	B	731	PRO	CA-N-CD	-5.49	103.82	111.50
1	B	35	LEU	CB-CG-CD2	5.48	120.31	111.00
1	A	653	LEU	CB-CG-CD1	5.47	120.30	111.00
1	H	643	LEU	CB-CG-CD1	5.46	120.28	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	25	LEU	CB-CG-CD1	5.46	120.28	111.00
1	F	632	LEU	CB-CG-CD1	5.46	120.28	111.00
1	E	288	LEU	CB-CG-CD1	5.44	120.24	111.00
1	E	643	LEU	CB-CG-CD1	5.43	120.24	111.00
1	F	250	ARG	CG-CD-NE	5.42	123.19	111.80
1	C	155	LEU	CB-CG-CD2	5.40	120.19	111.00
1	A	326	LEU	CB-CG-CD1	5.40	120.18	111.00
1	B	108	LEU	CB-CG-CD1	5.39	120.17	111.00
1	H	730	LEU	CB-CG-CD1	5.39	120.17	111.00
1	L	677	LEU	CB-CG-CD1	5.34	120.08	111.00
1	F	594	LEU	CB-CG-CD2	5.31	120.02	111.00
1	H	176	LEU	CB-CG-CD1	5.31	120.02	111.00
1	J	730	LEU	CB-CG-CD2	5.29	119.98	111.00
1	L	653	LEU	CB-CG-CD1	5.26	119.95	111.00
1	A	619	LEU	CB-CG-CD1	5.26	119.94	111.00
1	A	44	LEU	CB-CG-CD1	5.25	119.92	111.00
1	L	108	LEU	CB-CG-CD2	5.24	119.90	111.00
1	C	437	LEU	CB-CG-CD1	5.23	119.89	111.00
1	E	459	LEU	CB-CG-CD2	5.21	119.86	111.00
2	R	350	ASP	CB-CG-OD2	5.19	122.97	118.30
2	S	350	ASP	CB-CG-OD2	5.19	122.97	118.30
1	A	45	PRO	CA-N-CD	-5.18	104.25	111.50
1	B	326	LEU	CB-CG-CD1	5.18	119.80	111.00
1	G	459	LEU	CB-CG-CD1	5.17	119.79	111.00
1	C	246	LEU	CB-CG-CD1	5.17	119.78	111.00
2	Q	350	ASP	CB-CG-OD2	5.16	122.95	118.30
2	O	350	ASP	CB-CG-OD2	5.16	122.94	118.30
1	K	437	LEU	CB-CG-CD1	5.16	119.77	111.00
2	M	350	ASP	CB-CG-OD2	5.15	122.94	118.30
2	N	350	ASP	CB-CG-OD2	5.15	122.94	118.30
2	P	350	ASP	CB-CG-OD2	5.14	122.93	118.30
1	H	459	LEU	CB-CG-CD2	5.14	119.73	111.00
1	B	677	LEU	CB-CG-CD2	5.12	119.71	111.00
1	I	169	LEU	CB-CG-CD1	5.11	119.69	111.00
1	E	587	LEU	CB-CG-CD2	-5.07	102.38	111.00
1	A	35	LEU	CB-CG-CD1	5.06	119.61	111.00
1	J	745	LEU	CB-CG-CD1	5.05	119.59	111.00
1	G	619	LEU	CB-CG-CD1	5.04	119.56	111.00
1	I	653	LEU	CB-CG-CD1	5.01	119.52	111.00

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	290	ARG	Sidechain
1	E	568	ARG	Sidechain
1	H	540	ILE	Peptide
1	H	575	ARG	Sidechain
1	I	177	ARG	Sidechain
1	J	540	ILE	Peptide
1	K	791	ARG	Sidechain
1	L	351	ARG	Sidechain
2	N	553	ARG	Sidechain

## 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	6245	0	6229	262	0
1	B	6245	0	6229	268	0
1	C	6245	0	6229	316	0
1	D	6221	0	6209	329	0
1	E	6245	0	6229	331	0
1	F	6245	0	6229	284	0
1	G	6245	0	6229	311	0
1	H	6245	0	6228	275	0
1	I	6245	0	6229	318	0
1	J	6245	0	6229	273	0
1	K	6245	0	6229	328	0
1	L	6245	0	6229	311	0
2	M	6277	0	6328	1412	0
2	N	6277	0	6328	1517	0
2	O	6277	0	6328	1413	0
2	P	6277	0	6328	1428	0
2	Q	6277	0	6328	1431	0
2	R	6277	0	6328	1441	0
2	S	6277	0	6328	1433	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	G	1	0	0	0	0
3	H	1	0	0	0	0
3	I	1	0	0	0	0
3	J	1	0	0	0	0
3	K	1	0	0	0	0
3	L	1	0	0	0	0
All	All	118867	0	119023	13162	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 55.

All (13162) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:173:LYS:NZ	2:S:175:GLU:HG3	1.07	1.40
2:P:751:GLN:OE1	2:P:811:VAL:CG1	1.70	1.38
2:M:751:GLN:OE1	2:M:811:VAL:CG1	1.69	1.38
2:R:751:GLN:OE1	2:R:811:VAL:CG1	1.76	1.34
2:O:751:GLN:OE1	2:O:811:VAL:CG1	1.73	1.33
2:R:173:LYS:NZ	2:R:175:GLU:CG	1.92	1.31
2:R:173:LYS:NZ	2:R:175:GLU:HG3	0.98	1.31
2:N:751:GLN:OE1	2:N:811:VAL:CG1	1.79	1.30
2:S:173:LYS:NZ	2:S:175:GLU:CG	2.00	1.24
2:Q:584:MET:HE1	2:Q:589:LYS:HA	1.19	1.18
2:R:720:VAL:HG12	2:R:844:LEU:HD22	1.26	1.17
2:M:355:GLY:HA3	2:M:417:LEU:HD13	1.25	1.17
2:M:773:LYS:HG2	2:M:860:GLY:HA2	1.27	1.17
2:M:375:PRO:HB2	2:M:378:LEU:HD13	1.24	1.16
2:M:612:ALA:HB2	2:M:654:THR:HG22	1.23	1.16
2:O:858:ILE:HD12	2:O:915:THR:HA	1.22	1.16
2:O:751:GLN:OE1	2:O:811:VAL:HG11	1.32	1.15
2:M:810:PRO:HG3	2:M:816:GLU:HB2	1.27	1.15
2:Q:486:VAL:HG21	2:Q:731:ALA:HB2	1.21	1.15
2:R:173:LYS:HZ1	2:R:175:GLU:CG	1.57	1.15
2:R:773:LYS:HG2	2:R:860:GLY:HA2	1.26	1.15
2:R:218:ILE:HD11	2:R:248:VAL:HG22	1.14	1.14
2:Q:73:PHE:HB3	2:Q:307:ARG:HG3	1.28	1.14
2:R:733:LEU:HD13	2:R:793:TYR:HB2	1.20	1.13
2:Q:386:PHE:HA	2:Q:389:LYS:HE2	1.28	1.13
2:P:751:GLN:OE1	2:P:811:VAL:HG11	1.34	1.13
2:N:318:GLY:HA2	2:N:323:ALA:HB3	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:894:TYR:HA	2:O:897:LYS:HE3	1.31	1.12
2:S:112:PRO:HA	2:S:115:LEU:HD12	1.31	1.12
2:S:727:ILE:HD12	2:S:841:LEU:HD21	1.30	1.11
2:N:237:ILE:HD13	2:N:241:PHE:HD2	1.15	1.11
2:O:833:LYS:HE3	2:O:838:THR:HG22	1.30	1.11
2:R:226:GLN:HE22	2:R:228:ASP:HB2	1.14	1.11
2:P:218:ILE:HD11	2:P:248:VAL:HG22	1.20	1.10
2:M:751:GLN:OE1	2:M:811:VAL:HG11	1.46	1.10
2:N:311:LYS:HE3	2:N:316:LEU:HA	1.22	1.09
2:R:318:GLY:HA2	2:R:323:ALA:HB3	1.32	1.09
2:M:136:LYS:HG2	2:M:211:LEU:HD11	1.34	1.09
2:O:304:VAL:HA	2:O:307:ARG:HD2	1.34	1.09
2:R:751:GLN:OE1	2:R:811:VAL:HG11	1.40	1.09
2:S:135:ASP:HA	2:S:138:LYS:HG2	1.28	1.08
2:N:154:GLN:HA	2:N:157:LEU:HD12	1.35	1.08
2:N:74:VAL:HB	2:N:251:THR:HG22	1.29	1.08
2:S:136:LYS:HD2	2:S:211:LEU:HD13	1.35	1.08
2:N:330:VAL:HG13	2:N:344:VAL:HG12	1.35	1.08
2:N:810:PRO:HG3	2:N:816:GLU:HB2	1.35	1.08
2:O:111:ASP:HA	2:O:221:ASP:HB3	1.20	1.08
1:I:215:ARG:NH1	1:I:269:GLU:OE1	1.87	1.07
2:R:769:SER:HA	2:R:773:LYS:HD3	1.26	1.07
2:Q:226:GLN:HE22	2:Q:228:ASP:HB2	1.13	1.07
2:R:639:ARG:HA	2:R:642:ILE:HD12	1.31	1.07
2:M:218:ILE:HD11	2:M:246:LEU:HD22	1.33	1.07
2:P:452:THR:HA	2:P:455:LYS:HE2	1.25	1.07
2:Q:76:GLY:HA3	2:Q:82:LYS:HE2	1.32	1.07
2:Q:443:MET:HG2	2:Q:489:ASN:HB3	1.31	1.07
2:Q:108:PRO:O	2:Q:128:ARG:NH2	1.87	1.06
2:Q:612:ALA:HB2	2:Q:654:THR:HG22	1.34	1.06
2:M:511:PHE:HD2	2:M:515:VAL:HB	1.20	1.06
2:P:329:LYS:HD3	2:P:343:ASP:HA	1.32	1.06
2:O:559:ALA:HA	2:O:570:PHE:HE2	1.20	1.06
2:P:318:GLY:HA2	2:P:323:ALA:HB3	1.30	1.06
2:Q:49:ILE:HD12	2:Q:214:LYS:HD2	1.27	1.06
2:R:178:SER:HA	2:R:181:LEU:HD12	1.37	1.06
2:N:201:GLU:HG3	2:N:205:LYS:HE3	1.36	1.06
2:P:751:GLN:OE1	2:P:811:VAL:CB	2.02	1.06
2:P:771:ALA:HA	2:P:774:ILE:HD12	1.36	1.06
2:R:154:GLN:HA	2:R:157:LEU:HD12	1.36	1.05
2:R:217:LEU:HD11	2:R:249:VAL:HG23	1.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:858:ILE:HD12	2:S:915:THR:HA	1.35	1.05
2:S:217:LEU:HD11	2:S:249:VAL:HG13	1.39	1.05
2:P:810:PRO:HG3	2:P:816:GLU:HB2	1.35	1.05
2:O:622:VAL:HG11	2:O:778:ASN:HB3	1.36	1.05
2:O:720:VAL:HG22	2:O:844:LEU:HD22	1.34	1.05
2:P:389:LYS:HG3	2:P:416:LEU:HD11	1.33	1.05
2:R:173:LYS:HZ2	2:R:175:GLU:CG	1.60	1.05
2:S:389:LYS:HE2	2:S:416:LEU:HG	1.34	1.04
2:O:507:SER:HA	2:O:539:MET:HE1	1.39	1.04
2:Q:370:GLU:HG3	2:Q:468:PRO:HB2	1.34	1.04
1:B:82:LYS:NZ	1:B:91:ASP:OD1	1.90	1.04
2:R:262:ARG:HG3	2:R:294:GLU:HG3	1.40	1.04
2:S:580:SER:HB3	2:S:590:LYS:HD3	1.39	1.04
2:O:318:GLY:HA2	2:O:323:ALA:HB3	1.36	1.04
2:N:107:LEU:HD21	2:N:218:ILE:HA	1.38	1.03
2:N:501:LEU:HD23	2:N:734:ILE:HG23	1.35	1.03
2:N:751:GLN:OE1	2:N:811:VAL:HG11	1.58	1.03
2:O:434:LEU:HD21	2:O:452:THR:HB	1.36	1.03
2:P:120:PRO:HB2	2:P:122:LEU:HG	1.36	1.03
2:M:112:PRO:HA	2:M:115:LEU:HD12	1.37	1.03
1:F:534:ILE:O	1:F:726:ARG:NH2	1.92	1.03
2:Q:443:MET:HB3	2:Q:500:MET:HE3	1.39	1.03
2:Q:593:ILE:HD11	2:Q:605:ALA:HB2	1.38	1.03
2:S:329:LYS:HE3	2:S:341:ALA:HB3	1.40	1.03
1:C:551:MET:SD	1:C:555:THR:OG1	2.17	1.03
2:R:121:ILE:HG12	2:R:233:VAL:HG22	1.37	1.03
2:N:591:PHE:HE1	2:N:917:LEU:HA	1.17	1.02
2:M:443:MET:HE2	2:M:496:LYS:HD3	1.41	1.02
2:M:760:ALA:HA	2:M:768:GLN:HG2	1.41	1.02
2:N:421:LEU:HD13	2:N:481:TYR:HA	1.38	1.02
2:Q:235:GLU:HA	2:Q:238:ARG:HD3	1.41	1.02
2:S:713:VAL:HA	2:S:849:PRO:HG3	1.38	1.02
2:M:636:ARG:HG3	2:M:638:GLU:H	1.25	1.02
2:N:353:ARG:HA	2:N:358:LEU:HB3	1.41	1.02
2:S:218:ILE:HD11	2:S:248:VAL:HG22	1.40	1.01
2:N:105:LYS:HG3	2:N:211:LEU:HD21	1.41	1.01
2:O:386:PHE:HA	2:O:389:LYS:HE3	1.41	1.01
2:Q:773:LYS:HD2	2:Q:860:GLY:HA2	1.39	1.01
2:R:76:GLY:HA3	2:R:82:LYS:HE2	1.41	1.01
2:M:580:SER:HB3	2:M:590:LYS:HD3	1.43	1.01
2:N:277:GLU:HG2	2:N:282:ARG:HG3	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:828:LEU:HG	2:N:833:LYS:HD2	1.42	1.00
2:P:390:LYS:HB2	2:P:416:LEU:HD21	1.41	1.00
2:R:235:GLU:HA	2:R:238:ARG:HG2	1.41	1.00
2:M:318:GLY:HA2	2:M:323:ALA:HB3	1.42	1.00
2:M:448:LYS:HD3	2:M:541:VAL:HG13	1.40	1.00
2:R:642:ILE:HD13	2:R:714:GLU:HB2	1.41	1.00
2:S:786:VAL:HG11	2:S:845:LEU:HD12	1.42	1.00
2:R:314:LEU:HA	2:R:317:VAL:HG22	1.44	1.00
2:Q:238:ARG:HG3	2:Q:239:LYS:HE3	1.40	0.99
2:P:205:LYS:HA	2:P:245:LYS:HE2	1.43	0.99
1:A:13:TYR:OH	1:A:196:ASP:OD1	1.79	0.99
1:G:551:MET:SD	1:G:555:THR:OG1	2.19	0.99
2:N:282:ARG:HA	2:N:285:GLU:HG3	1.41	0.99
2:O:204:VAL:HG13	2:O:216:ILE:HD13	1.45	0.99
2:O:312:THR:H	2:O:315:GLN:HE21	1.11	0.99
2:Q:152:GLN:HG2	2:Q:206:ARG:HD2	1.45	0.99
2:Q:575:GLN:HE21	2:Q:617:MET:HG2	1.26	0.99
2:O:467:ARG:HD2	2:O:469:GLN:HB2	1.41	0.98
2:S:38:ARG:HA	2:S:41:LEU:HD12	1.46	0.98
2:O:243:SER:HB3	2:O:246:LEU:HD13	1.44	0.98
2:R:751:GLN:OE1	2:R:811:VAL:HG12	1.63	0.98
2:O:921:THR:HG23	2:O:927:TYR:HE2	1.28	0.98
2:S:318:GLY:HA2	2:S:323:ALA:HB3	1.40	0.98
2:S:518:LEU:HB2	2:S:531:LEU:HD21	1.45	0.98
2:P:613:SER:HA	2:P:657:VAL:HG23	1.46	0.98
2:M:259:GLN:NE2	2:S:430:TYR:OH	1.95	0.98
2:N:760:ALA:HA	2:N:768:GLN:HG2	1.45	0.98
2:O:762:HIS:HB3	2:O:764:ARG:HD3	1.42	0.98
2:Q:114:LYS:HE2	2:R:239:LYS:HA	1.45	0.98
1:E:389:TRP:O	1:E:403:ASN:ND2	1.95	0.98
2:N:858:ILE:HD12	2:N:915:THR:HA	1.46	0.98
1:D:551:MET:SD	1:D:555:THR:OG1	2.21	0.98
1:G:791:ARG:NH1	1:I:141:ASP:OD1	1.97	0.98
2:N:602:ALA:HB1	2:N:650:ILE:HD13	1.41	0.97
2:Q:122:LEU:O	2:Q:126:THR:HG23	1.64	0.97
2:S:234:LEU:HA	2:S:237:ILE:HD12	1.44	0.97
2:S:275:GLU:O	2:S:278:LYS:NZ	1.97	0.97
2:M:259:GLN:O	2:M:263:GLY:N	1.97	0.97
2:N:202:GLU:HA	2:N:205:LYS:HD2	1.46	0.97
1:H:148:LEU:HD11	1:H:350:VAL:HG22	1.46	0.97
2:N:348:ILE:HD11	2:N:383:LEU:HD22	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:833:LYS:HE3	2:N:838:THR:HG22	1.42	0.97
1:C:84:GLU:O	1:C:89:LYS:NZ	1.96	0.97
2:M:237:ILE:HA	2:M:241:PHE:HD2	1.27	0.97
2:P:86:ILE:HG21	2:P:251:THR:HG21	1.45	0.97
2:M:751:GLN:OE1	2:M:811:VAL:HG12	1.61	0.97
2:Q:112:PRO:HA	2:Q:115:LEU:HD12	1.46	0.97
2:R:88:SER:HA	2:R:91:LYS:HD2	1.45	0.97
2:N:227:PHE:HD2	2:N:260:LEU:HD21	1.29	0.97
2:N:720:VAL:HG22	2:N:844:LEU:HB3	1.44	0.97
2:N:553:ARG:NH2	2:N:655:CYS:SG	2.36	0.97
2:P:112:PRO:HA	2:P:115:LEU:HD23	1.46	0.97
2:P:760:ALA:HB1	2:P:769:SER:H	1.29	0.97
2:R:195:ASP:HB3	2:R:198:GLU:HG3	1.47	0.97
2:S:760:ALA:HA	2:S:768:GLN:HG2	1.45	0.96
2:N:567:ILE:HB	2:N:753:LYS:HE3	1.43	0.96
2:N:503:VAL:O	2:N:507:SER:OG	1.82	0.96
2:N:864:SER:O	2:N:868:LEU:N	1.97	0.96
1:G:351:ARG:NH2	1:G:413:CYS:O	1.99	0.96
2:P:354:GLU:HB3	2:P:413:VAL:HG11	1.46	0.96
2:M:355:GLY:HA2	2:M:414:PRO:HG3	1.47	0.96
2:R:231:TRP:HZ3	2:R:261:ILE:HA	1.30	0.96
2:Q:136:LYS:HD2	2:Q:211:LEU:HD13	1.45	0.96
2:S:173:LYS:CE	2:S:175:GLU:HG3	1.95	0.96
2:M:427:SER:CB	2:N:295:GLN:HG2	1.96	0.96
2:N:751:GLN:OE1	2:N:811:VAL:HG12	1.64	0.96
2:O:173:LYS:HD3	2:O:175:GLU:HB2	1.46	0.96
2:P:105:LYS:HZ2	2:P:211:LEU:HD12	1.31	0.96
2:P:543:ARG:HD2	2:Q:469:GLN:HE22	1.30	0.96
2:O:580:SER:HB3	2:O:590:LYS:HD3	1.44	0.96
2:P:173:LYS:HD2	2:P:174:PRO:HD2	1.48	0.96
2:M:226:GLN:HE22	2:M:228:ASP:HB2	1.29	0.96
2:M:762:HIS:HB2	2:M:764:ARG:HH11	1.31	0.96
2:O:110:ILE:HD12	2:O:218:ILE:HD11	1.45	0.96
2:P:612:ALA:HA	2:P:616:LEU:HD13	1.48	0.96
2:O:833:LYS:CE	2:O:838:THR:HG22	1.95	0.96
2:P:415:ASN:HA	2:P:418:ARG:HG2	1.45	0.96
2:Q:748:VAL:HA	2:Q:811:VAL:HG13	1.48	0.96
1:E:511:ARG:NH1	1:E:512:SER:OG	1.98	0.95
2:M:636:ARG:HH11	2:M:638:GLU:HB2	1.30	0.95
2:O:38:ARG:HG2	2:O:89:VAL:HG22	1.47	0.95
2:O:112:PRO:HA	2:O:115:LEU:HD12	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:652:GLN:NE2	2:P:654:THR:OG1	1.99	0.95
2:R:810:PRO:HG2	2:R:817:PHE:HB2	1.46	0.95
2:S:727:ILE:HG12	2:S:729:PRO:HD3	1.45	0.95
1:D:389:TRP:O	1:D:403:ASN:ND2	1.99	0.95
2:R:864:SER:O	2:R:868:LEU:N	1.99	0.95
1:L:508:SER:OG	1:L:559:ASP:OD2	1.83	0.95
2:M:38:ARG:HG2	2:M:89:VAL:HG22	1.48	0.95
2:N:724:GLU:HA	2:N:727:ILE:HD13	1.49	0.95
1:C:148:LEU:HD11	1:C:350:VAL:HG22	1.48	0.95
2:O:371:LEU:HA	2:O:374:GLN:HE21	1.32	0.95
2:P:37:LEU:HD21	2:P:308:ILE:HG12	1.48	0.95
2:P:786:VAL:HG11	2:P:845:LEU:HD12	1.47	0.95
2:R:712:LYS:HD2	2:R:849:PRO:HB3	1.48	0.95
2:M:422:TYR:O	2:M:426:LEU:HB3	1.66	0.95
2:O:503:VAL:O	2:O:507:SER:OG	1.85	0.95
2:R:198:GLU:O	2:R:201:GLU:HG2	1.67	0.95
2:R:426:LEU:HD11	2:S:298:LEU:HD23	1.48	0.95
2:M:358:LEU:CD2	2:M:364:ALA:HB2	1.96	0.94
2:O:748:VAL:HA	2:O:811:VAL:HG13	1.46	0.94
2:P:114:LYS:NZ	2:Q:238:ARG:O	1.99	0.94
2:Q:559:ALA:HA	2:Q:570:PHE:HE2	1.30	0.94
2:Q:760:ALA:HA	2:Q:768:GLN:HG2	1.49	0.94
1:F:389:TRP:O	1:F:403:ASN:ND2	1.99	0.94
1:F:148:LEU:HD11	1:F:350:VAL:HG22	1.49	0.94
2:N:302:PHE:O	2:N:307:ARG:NH1	2.00	0.94
2:M:446:LEU:HD21	2:M:486:VAL:HG12	1.49	0.94
2:P:609:SER:N	2:P:619:PHE:O	2.00	0.94
2:S:816:GLU:HA	2:S:819:LYS:HE3	1.50	0.94
2:M:761:GLU:O	2:M:764:ARG:NH1	2.00	0.94
2:O:415:ASN:HA	2:O:418:ARG:CD	1.96	0.94
2:P:255:ARG:NE	2:P:259:GLN:OE1	2.00	0.94
2:R:494:LEU:HD11	2:R:844:LEU:HD13	1.46	0.94
1:H:527:ARG:NH1	1:H:793:TYR:O	2.01	0.94
2:N:441:PHE:O	2:N:445:SER:OG	1.83	0.94
2:O:501:LEU:HD13	2:O:734:ILE:HG23	1.50	0.94
2:P:612:ALA:HB2	2:P:654:THR:HG22	1.47	0.94
2:Q:921:THR:HG23	2:Q:927:TYR:HE2	1.31	0.94
2:R:254:LEU:HA	2:R:257:TYR:HD2	1.28	0.94
2:M:297:TYR:HA	2:M:300:LYS:HE3	1.46	0.94
2:N:226:GLN:HE22	2:N:228:ASP:HB2	1.33	0.94
2:O:227:PHE:HD2	2:O:260:LEU:HD21	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:37:LEU:HD11	2:Q:311:LYS:HG2	1.47	0.94
2:R:786:VAL:HG11	2:R:845:LEU:HD12	1.48	0.94
2:S:333:GLU:H	2:S:336:MET:HE3	1.27	0.94
2:S:446:LEU:HD11	2:S:486:VAL:HG12	1.49	0.94
2:S:473:GLU:HA	2:S:476:ARG:HE	1.30	0.94
1:D:20:LEU:O	1:D:290:ARG:NH2	2.01	0.94
2:R:314:LEU:HD12	2:R:372:LEU:HB2	1.50	0.94
2:R:537:ALA:HA	2:R:543:ARG:HH22	1.33	0.94
1:F:58:GLN:O	1:F:62:GLN:NE2	2.01	0.94
2:S:755:ARG:HD3	2:S:767:SER:HA	1.50	0.94
2:N:282:ARG:HA	2:N:285:GLU:CG	1.97	0.93
2:N:567:ILE:HD12	2:N:753:LYS:HE2	1.46	0.93
2:R:71:VAL:HG22	2:R:248:VAL:HB	1.47	0.93
2:S:332:THR:HB	2:S:336:MET:HE1	1.50	0.93
2:M:748:VAL:HG12	2:M:811:VAL:HG13	1.49	0.93
2:O:390:LYS:HB2	2:O:416:LEU:HD21	1.50	0.93
2:P:443:MET:HE3	2:P:496:LYS:HB3	1.49	0.93
2:S:359:ARG:NH2	2:S:797:SER:OG	2.01	0.93
1:H:389:TRP:O	1:H:403:ASN:ND2	2.01	0.93
2:S:226:GLN:HE22	2:S:228:ASP:HB2	1.32	0.93
1:J:389:TRP:O	1:J:403:ASN:ND2	2.00	0.93
2:M:418:ARG:NH1	2:M:419:ASN:OD1	1.99	0.93
2:P:74:VAL:HG22	2:P:308:ILE:HG21	1.49	0.93
2:P:159:GLN:HG3	2:P:162:ARG:HH22	1.30	0.93
2:Q:114:LYS:HD2	2:R:239:LYS:HG2	1.49	0.93
1:H:215:ARG:NH1	1:H:269:GLU:OE1	2.02	0.93
2:M:237:ILE:HA	2:M:241:PHE:CD2	2.02	0.93
2:O:501:LEU:HD21	2:O:734:ILE:HG12	1.48	0.93
2:Q:304:VAL:HG12	2:Q:307:ARG:HH22	1.32	0.93
2:R:418:ARG:HD2	2:R:488:GLU:HG2	1.50	0.93
1:B:20:LEU:O	1:B:290:ARG:NH1	2.02	0.93
2:N:553:ARG:NH1	2:N:656:ILE:O	2.02	0.93
2:N:715:GLN:HA	2:N:718:LYS:HZ3	1.34	0.93
2:Q:329:LYS:HD3	2:Q:343:ASP:HA	1.47	0.93
2:Q:473:GLU:HA	2:Q:476:ARG:HD3	1.48	0.93
2:R:723:ILE:HG23	2:R:844:LEU:HD11	1.48	0.93
2:O:597:ASN:HB2	2:O:911:GLN:HG2	1.50	0.93
2:P:227:PHE:HB2	2:P:256:LEU:HD21	1.48	0.93
2:S:173:LYS:HZ1	2:S:175:GLU:CG	1.67	0.93
1:G:213:ASN:ND2	1:G:240:LEU:O	2.00	0.93
2:N:73:PHE:HB3	2:N:307:ARG:HG3	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:828:LEU:HG	2:O:833:LYS:HD2	1.49	0.93
2:Q:507:SER:O	2:Q:535:TYR:OH	1.87	0.93
2:R:200:PHE:HA	2:R:203:LEU:HD12	1.51	0.93
1:C:74:ARG:NH2	1:C:113:CYS:SG	2.42	0.93
2:O:455:LYS:O	2:O:458:ARG:NH2	2.02	0.93
2:Q:780:LEU:HD13	2:Q:814:VAL:HG22	1.51	0.93
2:R:486:VAL:HG21	2:R:731:ALA:HB2	1.47	0.93
1:D:511:ARG:NH1	1:D:515:ASP:OD2	2.02	0.92
2:N:537:ALA:O	2:N:543:ARG:NH2	2.02	0.92
2:O:543:ARG:HH21	2:P:471:GLU:HG2	1.32	0.92
2:S:412:SER:OG	2:S:491:GLN:OE1	1.87	0.92
2:M:467:ARG:HH11	2:M:469:GLN:HA	1.32	0.92
2:N:269:TYR:HE1	2:N:286:ARG:HD3	1.28	0.92
2:O:452:THR:HA	2:O:455:LYS:HZ3	1.31	0.92
2:P:108:PRO:O	2:P:128:ARG:NH1	2.02	0.92
2:P:120:PRO:HG2	2:P:123:VAL:HG23	1.50	0.92
1:H:190:GLN:O	1:H:194:GLN:NE2	2.00	0.92
2:S:894:TYR:HA	2:S:897:LYS:HE3	1.51	0.92
2:M:158:ALA:HB1	2:M:162:ARG:HH21	1.33	0.92
2:N:473:GLU:O	2:N:477:ASN:ND2	2.02	0.92
2:O:226:GLN:HE22	2:O:228:ASP:HB2	1.33	0.92
2:Q:470:SER:O	2:Q:476:ARG:NE	2.02	0.92
2:N:486:VAL:HG21	2:N:731:ALA:HB2	1.48	0.92
1:E:44:LEU:HD21	1:E:49:ALA:HB2	1.52	0.92
1:I:389:TRP:O	1:I:403:ASN:ND2	2.02	0.92
2:M:128:ARG:HH21	2:N:191:ILE:HG12	1.33	0.92
1:G:215:ARG:NH1	1:G:216:GLU:OE2	2.03	0.92
2:R:509:SER:HG	2:R:738:TRP:HE1	0.95	0.92
2:S:156:HIS:HB3	2:S:203:LEU:HD23	1.50	0.92
2:S:507:SER:O	2:S:535:TYR:OH	1.88	0.92
1:F:647:THR:O	1:F:650:LYS:NZ	2.02	0.92
2:M:466:LEU:HD12	2:M:479:SER:HA	1.51	0.92
2:P:76:GLY:HA2	2:P:310:LEU:HD13	1.49	0.92
2:P:501:LEU:HD23	2:P:734:ILE:HG23	1.50	0.92
2:Q:173:LYS:HD3	2:Q:175:GLU:HB2	1.51	0.92
2:S:130:ASN:HA	2:S:153:TRP:CH2	2.05	0.92
2:S:589:LYS:O	2:S:921:THR:N	2.01	0.92
2:S:760:ALA:HB1	2:S:769:SER:H	1.33	0.92
2:M:751:GLN:OE1	2:M:811:VAL:CB	2.17	0.92
2:N:609:SER:OG	2:N:624:ASN:ND2	2.02	0.92
2:Q:261:ILE:HD11	2:Q:294:GLU:HG2	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:318:GLY:HA2	2:Q:323:ALA:HB3	1.51	0.92
2:Q:509:SER:HG	2:Q:738:TRP:HE1	1.17	0.92
1:A:389:TRP:O	1:A:403:ASN:ND2	2.02	0.92
2:P:453:TYR:OH	2:P:475:LEU:O	1.88	0.92
2:S:286:ARG:HA	2:S:286:ARG:NH1	1.84	0.92
1:L:13:TYR:OH	1:L:196:ASP:OD1	1.86	0.91
2:M:74:VAL:HA	2:M:308:ILE:HG22	1.52	0.91
2:O:253:ASP:HB3	2:O:256:LEU:HD23	1.52	0.91
2:P:452:THR:HA	2:P:455:LYS:CE	1.99	0.91
2:Q:37:LEU:HB3	2:Q:308:ILE:HD11	1.49	0.91
2:Q:637:CYS:O	2:Q:718:LYS:NZ	2.03	0.91
1:A:527:ARG:NH1	1:A:704:GLU:OE2	2.03	0.91
1:C:46:ASP:O	1:C:50:LYS:NZ	2.01	0.91
2:N:714:GLU:OE1	2:N:718:LYS:NZ	2.04	0.91
2:O:313:MET:HA	2:O:316:LEU:HD12	1.51	0.91
2:R:311:LYS:HE3	2:R:315:GLN:HB3	1.52	0.91
2:S:584:MET:HE1	2:S:589:LYS:HA	1.51	0.91
2:O:486:VAL:HG13	2:O:500:MET:SD	2.11	0.91
2:R:625:LEU:O	2:R:629:ILE:HD12	1.71	0.91
2:N:312:THR:O	2:N:316:LEU:HG	1.71	0.91
2:N:546:SER:OG	2:N:549:HIS:ND1	2.04	0.91
2:N:833:LYS:CE	2:N:838:THR:HG22	2.00	0.91
2:S:107:LEU:HD12	2:S:218:ILE:HG22	1.52	0.91
2:S:121:ILE:HG12	2:S:233:VAL:HG22	1.52	0.91
2:S:173:LYS:HZ2	2:S:175:GLU:CG	1.69	0.91
2:M:49:ILE:HD13	2:M:104:ILE:HD11	1.52	0.91
2:M:606:SER:HB3	2:M:650:ILE:HG22	1.53	0.91
2:P:733:LEU:HD13	2:P:793:TYR:HB2	1.50	0.91
2:R:430:TYR:OH	2:S:259:GLN:OE1	1.88	0.91
1:A:78:GLU:O	1:A:82:LYS:NZ	2.04	0.91
2:M:423:GLY:HA2	2:M:426:LEU:HD23	1.52	0.91
1:C:287:GLY:O	1:C:290:ARG:HD3	1.70	0.91
2:R:49:ILE:HD13	2:R:104:ILE:HD11	1.53	0.91
2:N:297:TYR:HA	2:N:300:LYS:NZ	1.86	0.91
2:N:591:PHE:CE1	2:N:917:LEU:HA	2.04	0.91
2:N:129:LEU:HA	2:N:132:MET:SD	2.10	0.90
1:D:213:ASN:ND2	1:D:240:LEU:O	2.05	0.90
2:P:551:ALA:HA	2:P:623:PHE:CE2	2.07	0.90
2:N:237:ILE:HD13	2:N:241:PHE:CD2	2.05	0.90
2:O:311:LYS:HE2	2:O:315:GLN:HG3	1.52	0.90
2:N:112:PRO:HA	2:N:115:LEU:HD12	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:113:THR:HG22	2:Q:226:GLN:HB3	1.53	0.90
2:Q:235:GLU:HA	2:Q:238:ARG:CD	2.00	0.90
2:R:551:ALA:HA	2:R:623:PHE:CE2	2.06	0.90
2:S:114:LYS:HA	2:S:114:LYS:HE3	1.53	0.90
2:S:612:ALA:HB2	2:S:654:THR:CG2	2.00	0.90
2:O:544:ILE:HD11	2:O:550:TRP:HB2	1.52	0.90
2:O:852:HIS:HB3	2:O:886:LEU:HD11	1.53	0.90
2:S:173:LYS:HD3	2:S:175:GLU:H	1.33	0.90
1:J:659:TRP:O	1:J:669:ARG:NH2	2.05	0.90
2:M:772:ALA:HA	2:M:917:LEU:HD23	1.54	0.90
2:N:422:TYR:HD1	2:N:481:TYR:HH	1.16	0.90
2:P:745:LEU:HA	2:P:748:VAL:HG22	1.53	0.90
2:R:443:MET:HE1	2:R:496:LYS:HB3	1.52	0.90
1:I:756:ASP:O	1:I:759:SER:OG	1.89	0.90
2:O:764:ARG:NH2	2:O:897:LYS:O	2.05	0.90
2:P:266:TYR:HE2	2:Q:273:LEU:HD13	1.36	0.90
2:P:440:ARG:HH22	2:Q:373:LYS:HB3	1.37	0.90
2:S:130:ASN:HA	2:S:153:TRP:HH2	1.35	0.90
1:H:100:THR:O	1:H:103:SER:OG	1.89	0.90
1:J:159:THR:OG1	1:J:163:GLU:OE2	1.88	0.90
2:N:271:LYS:O	2:N:274:LEU:HG	1.72	0.90
2:O:555:CYS:HB3	2:O:619:PHE:CZ	2.07	0.90
1:D:455:SER:OG	1:D:456:GLU:OE1	1.90	0.90
1:F:716:TYR:OH	1:F:723:HIS:ND1	2.04	0.90
2:M:231:TRP:CE2	2:M:264:LYS:HD2	2.06	0.90
2:O:452:THR:HG22	2:O:456:GLN:HE22	1.33	0.90
2:M:117:ARG:NH2	2:N:171:GLU:O	2.04	0.90
2:N:605:ALA:HB3	2:N:650:ILE:HG23	1.53	0.90
2:O:41:LEU:HD12	2:O:308:ILE:HG12	1.54	0.90
2:S:609:SER:O	2:S:619:PHE:N	2.03	0.90
2:M:180:ALA:HA	2:M:194:GLN:HG2	1.53	0.89
2:Q:269:TYR:HD2	2:Q:274:LEU:HD21	1.36	0.89
2:Q:548:SER:N	2:Q:631:ASP:OD2	2.04	0.89
2:Q:855:ILE:HD12	2:Q:886:LEU:HD11	1.54	0.89
2:S:105:LYS:HD3	2:S:213:CYS:HB3	1.53	0.89
2:S:799:ARG:NH1	2:S:800:GLU:O	2.05	0.89
1:A:178:ASP:OD2	1:A:324:THR:OG1	1.89	0.89
2:N:296:GLN:HA	2:N:299:LEU:HD21	1.54	0.89
2:Q:786:VAL:HG11	2:Q:845:LEU:HD12	1.54	0.89
1:J:81:ILE:HD13	1:J:132:LEU:HD21	1.54	0.89
2:M:786:VAL:HG11	2:M:845:LEU:HD12	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:512:ASN:O	2:O:516:THR:OG1	1.89	0.89
2:P:429:ILE:HD12	2:P:434:LEU:HD12	1.52	0.89
2:S:466:LEU:HB3	2:S:482:LEU:HD11	1.54	0.89
1:D:25:LEU:HB3	1:D:28:ARG:HD2	1.54	0.89
2:M:195:ASP:O	2:M:198:GLU:HG3	1.73	0.89
2:O:108:PRO:HD3	2:O:132:MET:HE1	1.53	0.89
2:P:71:VAL:HG22	2:P:248:VAL:HB	1.53	0.89
2:P:359:ARG:HG2	2:P:795:SER:HA	1.54	0.89
2:P:751:GLN:OE1	2:P:811:VAL:HB	1.69	0.89
2:R:917:LEU:HD12	2:R:920:SER:HB2	1.53	0.89
2:S:149:GLN:O	2:S:206:ARG:NH2	2.05	0.89
2:S:446:LEU:O	2:S:450:ILE:HD12	1.71	0.89
2:P:921:THR:HG23	2:P:927:TYR:HE2	1.37	0.89
2:Q:803:GLY:O	2:Q:807:ARG:NH1	2.06	0.89
2:R:70:ASN:ND2	2:R:246:LEU:O	2.06	0.89
2:R:511:PHE:HA	2:R:515:VAL:HB	1.54	0.89
2:R:570:PHE:HB2	2:R:573:MET:SD	2.11	0.89
1:J:97:GLU:O	1:J:100:THR:OG1	1.89	0.89
1:L:121:PRO:O	1:L:126:TYR:OH	1.89	0.89
2:R:118:HIS:HB3	2:S:172:TYR:HB2	1.54	0.89
1:I:659:TRP:O	1:I:669:ARG:NH2	2.05	0.89
2:M:750:ASP:HA	2:M:753:LYS:HE2	1.55	0.89
2:P:43:GLU:HG3	2:P:46:ARG:HH21	1.35	0.89
2:Q:262:ARG:HH12	2:Q:291:GLU:HG2	1.38	0.89
2:N:723:ILE:HD13	2:N:836:LYS:HG2	1.54	0.89
2:N:826:GLU:OE2	2:N:827:LYS:NZ	2.05	0.89
2:S:713:VAL:HG22	2:S:849:PRO:HG2	1.53	0.89
2:Q:389:LYS:HZ3	2:Q:420:ALA:HB2	1.38	0.89
1:K:389:TRP:O	1:K:403:ASN:ND2	2.06	0.88
2:O:373:LYS:HE3	2:O:374:GLN:HE22	1.38	0.88
2:P:537:ALA:O	2:P:543:ARG:NH2	2.06	0.88
2:Q:158:ALA:HA	2:Q:161:GLN:OE1	1.73	0.88
2:P:329:LYS:HD3	2:P:343:ASP:CA	2.03	0.88
1:H:356:ARG:NH2	1:H:467:ASP:OD2	2.06	0.88
2:N:437:GLU:OE1	2:N:440:ARG:N	2.06	0.88
2:Q:885:LYS:HE3	2:Q:888:SER:HA	1.55	0.88
2:S:455:LYS:O	2:S:458:ARG:NH2	2.06	0.88
1:A:19:SER:O	1:A:290:ARG:NH1	2.06	0.88
1:D:100:THR:O	1:D:103:SER:OG	1.92	0.88
2:S:568:GLY:HA3	2:S:575:GLN:HB2	1.55	0.88
2:N:277:GLU:HG3	2:N:282:ARG:NE	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:638:GLU:HG3	2:P:641:ALA:H	1.39	0.88
2:M:155:ASN:O	2:M:159:GLN:NE2	2.06	0.88
1:H:534:ILE:O	1:H:689:GLN:NE2	2.07	0.88
1:L:100:THR:O	1:L:103:SER:OG	1.90	0.88
2:N:279:GLU:HG3	2:N:282:ARG:NH1	1.87	0.88
2:N:546:SER:HG	2:N:549:HIS:HD1	1.16	0.88
2:P:570:PHE:HB2	2:P:573:MET:SD	2.14	0.88
2:R:283:LEU:HD13	2:R:286:ARG:HH22	1.38	0.88
2:R:425:MET:HG3	2:R:477:ASN:HB3	1.56	0.88
2:N:762:HIS:HA	2:N:918:ASN:HD21	1.37	0.88
2:Q:255:ARG:O	2:Q:258:SER:OG	1.92	0.88
2:S:272:THR:O	2:S:276:GLN:HG2	1.74	0.88
2:N:35:LYS:HG3	2:N:38:ARG:HE	1.38	0.88
2:N:105:LYS:HB2	2:N:216:ILE:CD1	2.03	0.88
2:O:195:ASP:O	2:O:198:GLU:HG3	1.74	0.88
2:O:856:PHE:HB2	2:O:887:LEU:HD11	1.55	0.88
2:Q:580:SER:HB3	2:Q:590:LYS:HD3	1.54	0.88
2:R:120:PRO:HG2	2:R:123:VAL:HG23	1.56	0.88
2:R:580:SER:HB3	2:R:590:LYS:HE3	1.54	0.88
2:R:760:ALA:HA	2:R:768:GLN:HG2	1.54	0.88
2:S:41:LEU:O	2:S:45:ILE:HD12	1.74	0.88
2:O:529:GLU:OE1	2:O:532:ILE:HD11	1.74	0.88
2:Q:130:ASN:HA	2:Q:153:TRP:CH2	2.09	0.88
2:Q:261:ILE:CD1	2:Q:294:GLU:HG2	2.03	0.88
2:Q:574:VAL:HG23	2:Q:775:MET:HE3	1.54	0.88
2:R:226:GLN:NE2	2:R:228:ASP:HB2	1.89	0.88
2:O:111:ASP:HA	2:O:221:ASP:CB	2.04	0.87
2:Q:570:PHE:HB2	2:Q:573:MET:HG3	1.54	0.87
2:O:751:GLN:OE1	2:O:811:VAL:HG12	1.73	0.87
2:R:173:LYS:HD3	2:R:175:GLU:H	1.38	0.87
1:G:534:ILE:O	1:G:726:ARG:NH2	2.07	0.87
2:M:833:LYS:NZ	2:M:837:ASN:HB3	1.89	0.87
2:N:49:ILE:HD13	2:N:104:ILE:HD11	1.53	0.87
2:N:580:SER:HB3	2:N:590:LYS:HD3	1.55	0.87
1:E:9:THR:OG1	1:E:196:ASP:OD1	1.92	0.87
1:K:19:SER:N	1:K:22:GLU:OE2	2.08	0.87
2:N:439:HIS:HE1	2:O:315:GLN:HB3	1.39	0.87
2:S:304:VAL:O	2:S:307:ARG:HG3	1.73	0.87
2:M:283:LEU:HD22	2:M:286:ARG:NH2	1.90	0.87
2:M:720:VAL:HG22	2:M:844:LEU:HD22	1.57	0.87
2:Q:741:PHE:HE1	2:Q:782:PHE:HA	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:846:ILE:O	2:Q:852:HIS:NE2	2.07	0.87
2:R:231:TRP:CZ3	2:R:261:ILE:HA	2.10	0.87
2:R:262:ARG:HA	2:R:265:GLN:OE1	1.75	0.87
2:M:455:LYS:O	2:M:458:ARG:NH2	2.06	0.87
2:P:826:GLU:O	2:P:829:LYS:HG3	1.75	0.87
2:S:509:SER:HG	2:S:738:TRP:HE1	1.18	0.87
2:O:117:ARG:HH11	2:O:118:HIS:HB2	1.39	0.87
2:P:75:ASP:HB3	2:P:307:ARG:HH22	1.39	0.87
2:N:117:ARG:HG3	2:N:118:HIS:CD2	2.10	0.87
2:O:507:SER:CA	2:O:539:MET:HE1	2.05	0.87
2:Q:423:GLY:HA3	2:R:307:ARG:HH22	1.40	0.87
2:S:332:THR:HG23	2:S:387:TYR:HB3	1.57	0.87
2:S:389:LYS:HG3	2:S:416:LEU:HD21	1.56	0.87
1:G:111:ILE:O	1:G:115:GLN:NE2	2.08	0.87
2:N:591:PHE:CZ	2:N:920:SER:HB3	2.08	0.87
2:P:45:ILE:O	2:P:48:SER:OG	1.92	0.87
2:Q:195:ASP:HB3	2:Q:198:GLU:CG	2.04	0.87
2:Q:704:THR:OG1	2:Q:705:GLU:OE1	1.90	0.87
1:C:638:GLU:OE1	1:C:641:ARG:NE	2.08	0.86
2:M:858:ILE:HD12	2:M:915:THR:HA	1.55	0.86
2:N:120:PRO:HG2	2:N:123:VAL:HG23	1.54	0.86
2:N:304:VAL:HA	2:N:307:ARG:CZ	2.05	0.86
2:N:311:LYS:CE	2:N:316:LEU:HD23	2.05	0.86
2:O:105:LYS:HG2	2:O:213:CYS:HB3	1.57	0.86
2:O:223:ILE:HD12	2:O:227:PHE:HA	1.55	0.86
2:O:237:ILE:HA	2:O:241:PHE:HD2	1.40	0.86
2:O:266:TYR:HE2	2:P:272:THR:HB	1.40	0.86
2:O:760:ALA:O	2:O:773:LYS:NZ	2.08	0.86
2:P:152:GLN:HA	2:P:155:ASN:HD22	1.38	0.86
2:P:760:ALA:HA	2:P:768:GLN:HG2	1.57	0.86
2:R:105:LYS:HZ2	2:R:211:LEU:HD12	1.38	0.86
2:S:126:THR:HG21	2:S:160:LEU:HD21	1.55	0.86
2:S:311:LYS:HE3	2:S:315:GLN:HB3	1.55	0.86
2:S:441:PHE:O	2:S:445:SER:OG	1.93	0.86
1:J:221:VAL:O	1:J:279:LYS:NZ	2.07	0.86
2:O:434:LEU:HD22	2:O:449:ASP:HA	1.57	0.86
2:O:769:SER:HA	2:O:773:LYS:HD2	1.57	0.86
2:N:389:LYS:NZ	2:N:416:LEU:O	2.08	0.86
2:O:103:ASN:ND2	2:O:212:ASP:O	2.08	0.86
2:P:512:ASN:O	2:P:516:THR:OG1	1.93	0.86
2:Q:46:ARG:HH21	2:Q:93:LEU:HD13	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:552:THR:HG1	1:G:555:THR:HG1	1.06	0.86
1:I:46:ASP:O	1:I:50:LYS:NZ	2.07	0.86
1:L:464:ARG:NH2	1:L:797:ASP:OD1	2.09	0.86
2:N:555:CYS:SG	2:N:624:ASN:ND2	2.47	0.86
2:N:607:SER:HB3	2:N:625:LEU:HD21	1.57	0.86
2:N:612:ALA:HB2	2:N:654:THR:CG2	2.05	0.86
2:N:786:VAL:HG11	2:N:845:LEU:HD12	1.57	0.86
2:O:434:LEU:HD21	2:O:452:THR:CB	2.05	0.86
2:P:486:VAL:HG13	2:P:500:MET:SD	2.15	0.86
2:Q:153:TRP:HB2	2:Q:206:ARG:HH21	1.38	0.86
2:Q:792:LEU:HD21	2:Q:802:ILE:HG21	1.56	0.86
2:M:43:GLU:HG3	2:M:46:ARG:HH21	1.40	0.86
2:N:645:ALA:HA	2:N:648:LYS:HE2	1.57	0.86
2:O:295:GLN:HA	2:O:298:LEU:HD21	1.55	0.86
2:O:302:PHE:O	2:O:307:ARG:NH2	2.07	0.86
2:P:314:LEU:HD12	2:P:372:LEU:HB2	1.57	0.86
2:R:437:GLU:OE2	2:R:440:ARG:NH1	2.08	0.86
2:S:159:GLN:HA	2:S:162:ARG:NE	1.91	0.86
2:S:199:ILE:HA	2:S:202:GLU:OE2	1.74	0.86
2:S:755:ARG:HE	2:S:757:TYR:HE2	1.23	0.86
2:M:105:LYS:HG2	2:M:213:CYS:HB3	1.55	0.86
2:M:238:ARG:HG3	2:M:239:LYS:HD3	1.57	0.86
2:M:446:LEU:HD23	2:M:500:MET:CE	2.04	0.86
2:M:518:LEU:HD22	2:M:531:LEU:HD11	1.54	0.86
2:Q:38:ARG:HG3	2:Q:89:VAL:HG22	1.58	0.86
2:Q:49:ILE:CD1	2:Q:214:LYS:HD2	2.05	0.86
2:R:135:ASP:HA	2:R:138:LYS:HG2	1.57	0.86
2:R:195:ASP:HB3	2:R:198:GLU:CG	2.04	0.86
1:D:505:HIS:O	1:D:508:SER:OG	1.92	0.86
1:I:794:ARG:NH1	1:I:796:HIS:O	2.09	0.86
1:K:46:ASP:O	1:K:50:LYS:NZ	2.09	0.86
2:Q:864:SER:O	2:Q:868:LEU:N	2.09	0.86
1:A:61:LYS:NZ	1:A:62:GLN:OE1	2.09	0.86
2:M:770:ASN:OD1	2:M:773:LYS:N	2.08	0.86
2:N:136:LYS:NZ	2:N:210:ILE:O	2.08	0.86
2:P:453:TYR:OH	2:P:479:SER:HB3	1.76	0.86
2:Q:333:GLU:HB3	2:Q:336:MET:HG2	1.57	0.86
2:R:180:ALA:HA	2:R:194:GLN:CG	2.05	0.86
2:R:282:ARG:O	2:R:286:ARG:HG3	1.75	0.86
1:L:148:LEU:HD13	1:L:757:LEU:HD23	1.55	0.86
2:M:427:SER:HB2	2:N:295:GLN:HG2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:266:TYR:HA	2:N:269:TYR:CD2	2.10	0.86
2:N:638:GLU:HG3	2:N:641:ALA:H	1.40	0.86
2:O:279:GLU:OE1	2:O:281:VAL:N	2.08	0.86
1:I:778:ASP:OD1	1:I:781:ARG:NH2	2.09	0.86
1:L:389:TRP:O	1:L:403:ASN:ND2	2.09	0.86
2:M:638:GLU:HG3	2:M:641:ALA:H	1.41	0.86
2:M:748:VAL:O	2:M:752:HIS:ND1	2.08	0.86
2:N:304:VAL:HG12	2:N:307:ARG:HH22	1.40	0.86
2:O:108:PRO:HD3	2:O:132:MET:CE	2.06	0.86
2:P:486:VAL:HA	2:P:500:MET:HE1	1.57	0.86
2:S:136:LYS:NZ	2:S:210:ILE:O	2.07	0.86
2:N:446:LEU:HD11	2:N:486:VAL:HG12	1.55	0.85
2:O:312:THR:O	2:O:316:LEU:HG	1.76	0.85
2:P:494:LEU:HD13	2:P:720:VAL:HG13	1.56	0.85
2:M:265:GLN:NE2	2:M:290:VAL:O	2.08	0.85
2:N:386:PHE:HA	2:N:389:LYS:HE2	1.58	0.85
2:Q:512:ASN:O	2:Q:516:THR:OG1	1.93	0.85
2:Q:530:GLN:NE2	2:Q:534:GLU:OE1	2.10	0.85
2:S:116:PRO:HB2	2:S:119:GLU:HG2	1.56	0.85
1:G:389:TRP:O	1:G:403:ASN:ND2	2.09	0.85
1:H:250:ARG:NE	1:H:252:TYR:OH	2.08	0.85
2:M:103:ASN:ND2	2:M:212:ASP:O	2.09	0.85
2:M:327:GLU:OE1	2:M:329:LYS:HG2	1.76	0.85
2:N:136:LYS:HE3	2:N:211:LEU:HA	1.55	0.85
2:O:226:GLN:NE2	2:O:228:ASP:HB2	1.90	0.85
2:P:227:PHE:O	2:P:260:LEU:HD11	1.76	0.85
2:M:282:ARG:HD2	2:M:285:GLU:OE2	1.76	0.85
2:M:857:PRO:HB3	2:M:914:ILE:HB	1.57	0.85
2:N:311:LYS:HE2	2:N:316:LEU:HD23	1.56	0.85
2:O:559:ALA:HA	2:O:570:PHE:CE2	2.11	0.85
2:O:570:PHE:HB2	2:O:573:MET:HG3	1.58	0.85
1:A:55:TYR:OH	1:L:551:MET:O	1.93	0.85
2:M:74:VAL:HG21	2:M:86:ILE:HD11	1.59	0.85
2:M:787:LEU:HD11	2:M:824:ILE:HD13	1.57	0.85
2:S:226:GLN:NE2	2:S:228:ASP:HB2	1.90	0.85
1:F:431:GLU:OE2	1:F:435:HIS:N	2.08	0.85
2:N:163:GLY:O	2:N:166:LEU:HD13	1.76	0.85
2:N:218:ILE:HD11	2:N:248:VAL:HG22	1.57	0.85
2:P:448:LYS:NZ	2:P:542:GLY:O	2.08	0.85
2:P:576:LEU:HD21	2:P:591:PHE:HB3	1.58	0.85
2:R:748:VAL:O	2:R:752:HIS:ND1	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:536:VAL:HG13	2:S:541:VAL:HG12	1.59	0.85
2:S:549:HIS:HA	2:S:552:ASN:HD21	1.41	0.85
1:F:595:GLU:O	1:J:651:ARG:NH1	2.10	0.85
2:N:297:TYR:HA	2:N:300:LYS:HZ2	1.40	0.85
2:N:921:THR:HG23	2:N:927:TYR:HE2	1.41	0.85
2:O:354:GLU:HG2	2:O:413:VAL:HG11	1.55	0.85
2:O:799:ARG:NH1	2:O:800:GLU:O	2.09	0.85
1:J:20:LEU:O	1:J:290:ARG:NH2	2.10	0.85
2:N:612:ALA:HB2	2:N:654:THR:HG22	1.59	0.85
2:N:815:ASP:O	2:N:819:LYS:HG2	1.77	0.85
2:P:639:ARG:NH1	2:P:643:THR:OG1	2.10	0.85
2:Q:128:ARG:HA	2:R:192:GLY:HA3	1.59	0.85
2:Q:498:LEU:HA	2:Q:501:LEU:HD21	1.58	0.85
2:Q:578:ARG:HH21	2:Q:590:LYS:HD2	1.41	0.85
2:M:755:ARG:NH1	2:M:766:ALA:O	2.09	0.85
2:P:822:LYS:HE2	2:P:826:GLU:OE2	1.77	0.85
2:S:133:VAL:HB	2:S:153:TRP:CH2	2.12	0.85
2:M:353:ARG:HA	2:M:358:LEU:HB3	1.58	0.85
2:O:612:ALA:HB2	2:O:654:THR:HG22	1.57	0.85
2:R:218:ILE:CD1	2:R:248:VAL:HG22	2.04	0.85
2:R:254:LEU:HA	2:R:257:TYR:CD2	2.12	0.85
2:R:704:THR:N	2:R:707:SER:HG	1.75	0.85
2:R:716:TRP:HE3	2:R:717:LEU:HD22	1.42	0.85
2:R:771:ALA:HA	2:R:774:ILE:HD12	1.57	0.85
1:I:778:ASP:OD1	1:I:782:LYS:NZ	2.10	0.84
2:N:305:GLN:OE1	2:N:305:GLN:N	2.10	0.84
2:P:36:SER:O	2:P:40:GLN:NE2	2.10	0.84
2:P:430:TYR:OH	2:Q:259:GLN:NE2	2.09	0.84
2:P:478:CYS:O	2:P:482:LEU:HG	1.77	0.84
2:Q:73:PHE:HB3	2:Q:307:ARG:CG	2.06	0.84
2:Q:178:SER:O	2:Q:182:LYS:NZ	2.10	0.84
2:Q:319:GLU:O	2:Q:345:ARG:NH2	2.10	0.84
2:Q:429:ILE:HD11	2:Q:434:LEU:HB2	1.59	0.84
2:R:107:LEU:HD12	2:R:218:ILE:HA	1.58	0.84
2:R:569:VAL:HG22	2:R:574:VAL:HG22	1.57	0.84
2:R:817:PHE:CE2	2:R:821:ILE:HD11	2.12	0.84
2:S:764:ARG:O	2:S:863:CYS:N	2.10	0.84
2:M:107:LEU:HD21	2:M:129:LEU:HD23	1.57	0.84
2:N:45:ILE:O	2:N:48:SER:OG	1.95	0.84
2:N:770:ASN:OD1	2:N:773:LYS:N	2.09	0.84
2:P:452:THR:HG22	2:P:456:GLN:HE22	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:152:GLN:HA	2:S:155:ASN:HD22	1.42	0.84
1:I:534:ILE:O	1:I:726:ARG:NH2	2.09	0.84
2:M:45:ILE:O	2:M:48:SER:OG	1.94	0.84
2:M:368:VAL:O	2:M:372:LEU:HG	1.78	0.84
2:O:468:PRO:HG3	2:O:480:ILE:HG12	1.56	0.84
2:P:569:VAL:HG13	2:P:574:VAL:HG22	1.57	0.84
2:S:173:LYS:HZ1	2:S:175:GLU:HG3	1.03	0.84
2:S:327:GLU:OE1	2:S:329:LYS:HG3	1.76	0.84
2:S:715:GLN:O	2:S:718:LYS:HG3	1.76	0.84
2:O:502:LEU:HB3	2:O:550:TRP:CZ3	2.12	0.84
2:P:137:LEU:HD11	2:P:150:LYS:HB2	1.57	0.84
2:P:262:ARG:NH2	2:P:266:TYR:OH	2.09	0.84
2:P:802:ILE:HG12	2:P:807:ARG:HE	1.42	0.84
1:F:551:MET:O	1:G:55:TYR:OH	1.96	0.84
2:M:302:PHE:O	2:M:307:ARG:NH2	2.11	0.84
2:R:353:ARG:HA	2:R:358:LEU:HB3	1.58	0.84
2:R:611:VAL:HG12	2:R:613:SER:H	1.42	0.84
2:S:292:HIS:O	2:S:296:GLN:HG2	1.77	0.84
2:S:872:THR:O	2:S:876:LYS:HG2	1.78	0.84
1:E:289:GLU:OE2	1:E:293:TRP:NE1	2.09	0.84
2:N:638:GLU:O	2:N:642:ILE:HG12	1.77	0.84
2:Q:562:PRO:HG2	2:Q:570:PHE:CE2	2.12	0.84
2:Q:747:ASN:OD1	2:Q:751:GLN:NE2	2.09	0.84
2:Q:914:ILE:HB	2:Q:917:LEU:HD13	1.60	0.84
2:R:427:SER:HB2	2:S:295:GLN:OE1	1.77	0.84
2:R:639:ARG:HD3	2:R:714:GLU:HG2	1.59	0.84
1:C:160:SER:OG	1:C:163:GLU:OE1	1.96	0.84
2:M:177:PHE:CZ	2:M:181:LEU:HD11	2.12	0.84
2:O:530:GLN:HG2	2:P:525:ARG:NH2	1.92	0.84
2:P:363:ASP:HA	2:P:366:MET:HE3	1.57	0.84
2:P:612:ALA:HB2	2:P:654:THR:CG2	2.07	0.84
2:S:152:GLN:OE1	2:S:155:ASN:ND2	2.11	0.84
2:S:609:SER:N	2:S:619:PHE:O	2.10	0.84
1:F:227:LEU:O	1:F:227:LEU:HD12	1.78	0.84
1:L:356:ARG:NH2	1:L:467:ASP:OD2	2.11	0.84
2:M:181:LEU:HD23	2:S:127:ALA:HA	1.60	0.84
2:N:848:CYS:HB2	2:N:851:LEU:HD12	1.58	0.84
2:O:467:ARG:CD	2:O:469:GLN:HB2	2.06	0.84
2:O:575:GLN:HA	2:O:619:PHE:CB	2.08	0.84
2:P:378:LEU:O	2:P:382:VAL:HG13	1.77	0.84
2:R:231:TRP:CD2	2:R:264:LYS:HE3	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:366:MET:SD	2:R:467:ARG:NH1	2.51	0.84
2:S:333:GLU:H	2:S:336:MET:CE	1.91	0.84
2:S:858:ILE:O	2:S:918:ASN:HB2	1.78	0.84
1:B:756:ASP:O	1:B:759:SER:OG	1.96	0.84
2:O:495:SER:HB3	2:O:634:ALA:HB2	1.60	0.84
2:P:723:ILE:HB	2:P:844:LEU:HD11	1.58	0.84
2:P:874:PHE:CZ	2:P:878:ILE:HD11	2.13	0.84
2:Q:610:THR:O	2:Q:654:THR:HA	1.76	0.84
2:R:282:ARG:HA	2:R:285:GLU:CD	1.99	0.84
2:S:570:PHE:HB2	2:S:573:MET:HG2	1.57	0.84
1:B:40:GLN:O	1:B:42:ARG:NH1	2.11	0.84
1:D:534:ILE:O	1:D:726:ARG:NH2	2.10	0.84
2:M:358:LEU:HD22	2:M:364:ALA:HB2	1.58	0.84
2:M:446:LEU:HD23	2:M:500:MET:HE2	1.60	0.84
2:M:578:ARG:NH2	2:M:615:ASN:O	2.10	0.84
2:N:363:ASP:OD1	2:N:467:ARG:NH2	2.11	0.84
2:N:787:LEU:HB2	2:N:842:PHE:CE1	2.13	0.84
2:P:195:ASP:O	2:P:198:GLU:HG3	1.77	0.84
2:R:567:ILE:HD12	2:R:753:LYS:HB3	1.59	0.84
2:N:611:VAL:O	2:N:616:LEU:HD12	1.79	0.83
2:O:343:ASP:OD1	2:O:346:GLN:N	2.09	0.83
2:P:418:ARG:HD3	2:P:488:GLU:HG3	1.60	0.83
2:P:846:ILE:O	2:P:852:HIS:NE2	2.10	0.83
2:S:120:PRO:HG2	2:S:123:VAL:HG23	1.59	0.83
2:R:262:ARG:CG	2:R:294:GLU:HG3	2.08	0.83
2:R:415:ASN:HA	2:R:418:ARG:HG2	1.58	0.83
1:E:160:SER:OG	1:E:163:GLU:OE2	1.95	0.83
2:M:518:LEU:HD22	2:M:531:LEU:HD21	1.60	0.83
2:N:317:VAL:HG21	2:N:372:LEU:HD21	1.59	0.83
2:N:584:MET:SD	2:N:585:PRO:HD2	2.18	0.83
2:O:727:ILE:HD11	2:O:841:LEU:HG	1.59	0.83
2:P:815:ASP:HA	2:P:870:LYS:HE2	1.60	0.83
2:Q:110:ILE:O	2:Q:221:ASP:N	2.09	0.83
2:Q:136:LYS:NZ	2:Q:210:ILE:O	2.09	0.83
2:Q:166:LEU:HD12	2:Q:196:LEU:HG	1.58	0.83
2:Q:437:GLU:CD	2:Q:440:ARG:HD3	1.99	0.83
1:B:58:GLN:O	1:B:62:GLN:NE2	2.12	0.83
2:M:282:ARG:HA	2:M:285:GLU:OE1	1.79	0.83
2:M:917:LEU:HD12	2:M:920:SER:HB2	1.58	0.83
2:N:237:ILE:HA	2:N:241:PHE:HB2	1.58	0.83
2:O:505:CYS:HB3	2:O:738:TRP:CG	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:130:ASN:HA	2:Q:153:TRP:HH2	1.42	0.83
2:S:35:LYS:O	2:S:38:ARG:HD3	1.77	0.83
2:S:511:PHE:HB2	2:S:535:TYR:CZ	2.12	0.83
2:O:431:ARG:HH12	2:P:255:ARG:HH12	1.26	0.83
2:Q:136:LYS:CD	2:Q:211:LEU:HA	2.08	0.83
2:Q:578:ARG:NH2	2:Q:591:PHE:O	2.10	0.83
2:R:448:LYS:HB3	2:R:542:GLY:HA3	1.59	0.83
2:S:473:GLU:HA	2:S:476:ARG:NE	1.94	0.83
1:B:221:VAL:O	1:B:279:LYS:NZ	2.09	0.83
2:M:505:CYS:HB3	2:M:738:TRP:CG	2.14	0.83
2:M:570:PHE:HB2	2:M:573:MET:SD	2.18	0.83
2:M:773:LYS:CG	2:M:860:GLY:HA2	2.08	0.83
2:M:805:GLY:H	2:M:807:ARG:HH12	1.24	0.83
2:R:261:ILE:HD11	2:R:294:GLU:OE2	1.78	0.83
1:C:2:GLU:N	1:C:2:GLU:OE1	2.11	0.83
1:J:130:TRP:O	1:J:340:HIS:NE2	2.12	0.83
2:M:434:LEU:HD13	2:M:449:ASP:OD1	1.78	0.83
2:N:751:GLN:OE1	2:N:811:VAL:CB	2.27	0.83
2:O:45:ILE:O	2:O:48:SER:OG	1.96	0.83
2:O:235:GLU:HB2	2:O:239:LYS:HZ1	1.44	0.83
2:O:279:GLU:OE1	2:O:281:VAL:HG22	1.79	0.83
2:O:864:SER:O	2:O:868:LEU:N	2.10	0.83
2:Q:544:ILE:HD11	2:Q:553:ARG:HH22	1.43	0.83
2:S:195:ASP:HB3	2:S:198:GLU:OE1	1.78	0.83
1:A:487:LEU:O	1:A:490:SER:OG	1.95	0.83
1:G:794:ARG:NH1	1:G:796:HIS:O	2.11	0.83
2:P:218:ILE:O	2:P:249:VAL:HG22	1.79	0.83
2:P:751:GLN:CD	2:P:811:VAL:HG11	1.98	0.83
1:K:177:ARG:NH2	1:K:180:GLU:OE1	2.12	0.83
2:O:359:ARG:NH2	2:O:797:SER:OG	2.11	0.83
2:P:638:GLU:O	2:P:642:ILE:HG12	1.79	0.83
2:R:136:LYS:HE2	2:R:211:LEU:HD22	1.59	0.83
2:R:622:VAL:HG11	2:R:778:ASN:HB3	1.60	0.83
1:H:662:SER:OG	1:H:664:ASN:OD1	1.95	0.83
2:M:256:LEU:HA	2:M:259:GLN:OE1	1.79	0.83
2:N:277:GLU:CG	2:N:282:ARG:HG3	2.09	0.83
2:O:255:ARG:HD2	2:O:256:LEU:N	1.94	0.83
2:P:269:TYR:CB	2:P:274:LEU:HD21	2.09	0.83
2:Q:223:ILE:HB	2:Q:226:GLN:O	1.78	0.83
2:Q:547:ALA:N	2:Q:631:ASP:OD1	2.11	0.83
2:S:352:VAL:HG22	2:S:358:LEU:HD12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:589:LYS:N	2:S:919:SER:O	2.11	0.83
1:A:152:HIS:ND1	1:A:704:GLU:OE1	2.11	0.82
1:D:236:ASN:N	1:D:239:GLN:OE1	2.11	0.82
1:G:227:LEU:O	1:G:227:LEU:HD12	1.79	0.82
2:M:107:LEU:HD23	2:M:128:ARG:HG2	1.61	0.82
2:N:313:MET:HA	2:N:316:LEU:HD12	1.61	0.82
2:P:241:PHE:HA	2:P:246:LEU:HD21	1.61	0.82
2:P:819:LYS:O	2:P:823:ILE:HG12	1.79	0.82
1:C:1:MET:N	1:C:2:GLU:OE1	2.12	0.82
2:M:223:ILE:HD12	2:M:227:PHE:HA	1.60	0.82
2:M:419:ASN:HA	2:M:422:TYR:CD1	2.14	0.82
2:M:466:LEU:HD11	2:M:482:LEU:HD12	1.61	0.82
2:N:255:ARG:O	2:N:258:SER:OG	1.97	0.82
2:N:625:LEU:O	2:N:629:ILE:HD12	1.79	0.82
2:O:255:ARG:O	2:O:259:GLN:NE2	2.12	0.82
2:P:218:ILE:HD11	2:P:248:VAL:CG2	2.07	0.82
2:Q:348:ILE:HG21	2:Q:371:LEU:HD22	1.61	0.82
2:R:507:SER:O	2:R:535:TYR:OH	1.98	0.82
1:A:505:HIS:O	1:A:508:SER:OG	1.96	0.82
1:H:511:ARG:NH2	1:H:512:SER:OG	2.13	0.82
2:N:609:SER:N	2:N:619:PHE:O	2.11	0.82
2:N:720:VAL:HA	2:N:844:LEU:HD22	1.61	0.82
2:O:195:ASP:HB3	2:O:198:GLU:CG	2.08	0.82
2:O:304:VAL:HA	2:O:307:ARG:CD	2.08	0.82
2:O:575:GLN:HA	2:O:619:PHE:HB2	1.58	0.82
2:R:421:LEU:HB3	2:R:481:TYR:HD1	1.43	0.82
2:R:493:SER:OG	2:R:496:LYS:HB2	1.80	0.82
2:R:569:VAL:O	2:R:753:LYS:NZ	2.12	0.82
1:B:111:ILE:O	1:B:115:GLN:NE2	2.11	0.82
1:H:150:GLU:OE2	1:H:152:HIS:N	2.11	0.82
1:L:215:ARG:NH1	1:L:269:GLU:OE2	2.12	0.82
2:N:453:TYR:HA	2:N:456:GLN:NE2	1.95	0.82
2:N:562:PRO:HG2	2:N:570:PHE:CE2	2.14	0.82
2:N:772:ALA:HA	2:N:917:LEU:HD23	1.60	0.82
2:O:443:MET:SD	2:O:500:MET:HE2	2.19	0.82
2:P:382:VAL:HG23	2:P:383:LEU:HD23	1.61	0.82
2:P:580:SER:HB3	2:P:590:LYS:HD3	1.59	0.82
2:P:769:SER:HA	2:P:773:LYS:CE	2.08	0.82
2:R:429:ILE:CD1	2:R:434:LEU:HD12	2.10	0.82
2:R:539:MET:HB2	2:R:550:TRP:HD1	1.45	0.82
1:C:150:GLU:OE2	1:C:152:HIS:N	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:55:TYR:OH	1:K:674:GLU:OE1	1.97	0.82
2:M:873:SER:O	2:M:876:LYS:HG2	1.80	0.82
2:N:386:PHE:HZ	2:N:413:VAL:HG13	1.44	0.82
2:N:602:ALA:HB1	2:N:650:ILE:CD1	2.10	0.82
2:O:786:VAL:HG11	2:O:845:LEU:HD12	1.61	0.82
2:O:790:GLU:OE2	2:O:842:PHE:HB2	1.79	0.82
2:P:237:ILE:HA	2:P:241:PHE:CD2	2.15	0.82
2:P:585:PRO:HG3	2:P:758:ARG:HE	1.44	0.82
2:Q:367:TYR:CZ	2:Q:468:PRO:HD3	2.14	0.82
2:Q:443:MET:CG	2:Q:489:ASN:HB3	2.10	0.82
1:K:662:SER:OG	1:K:664:ASN:OD1	1.96	0.82
2:N:638:GLU:OE2	2:N:640:SER:OG	1.98	0.82
2:O:73:PHE:O	2:O:308:ILE:N	2.12	0.82
2:O:741:PHE:CE2	2:O:745:LEU:HD11	2.15	0.82
2:P:110:ILE:HA	2:P:128:ARG:HH22	1.44	0.82
2:P:200:PHE:HA	2:P:203:LEU:HD12	1.62	0.82
2:R:446:LEU:HD21	2:R:486:VAL:HG12	1.62	0.82
2:S:329:LYS:NZ	2:S:341:ALA:O	2.13	0.82
2:M:295:GLN:HG2	2:S:427:SER:CB	2.09	0.82
2:N:108:PRO:O	2:N:128:ARG:NH1	2.13	0.82
2:N:265:GLN:HE22	2:N:294:GLU:HA	1.43	0.82
2:N:476:ARG:NH1	2:N:477:ASN:OD1	2.11	0.82
2:N:568:GLY:HA3	2:N:575:GLN:HB3	1.61	0.82
2:O:452:THR:O	2:O:456:GLN:NE2	2.12	0.82
2:Q:762:HIS:HB3	2:Q:764:ARG:CD	2.10	0.82
2:S:103:ASN:ND2	2:S:212:ASP:O	2.12	0.82
1:C:505:HIS:O	1:C:508:SER:OG	1.95	0.82
2:M:414:PRO:HB2	2:M:488:GLU:HG2	1.62	0.82
2:O:536:VAL:HG22	2:O:541:VAL:HG21	1.62	0.82
2:O:551:ALA:HB1	2:O:624:ASN:HA	1.61	0.82
2:P:382:VAL:HG23	2:P:383:LEU:CD2	2.10	0.82
1:A:227:LEU:HD12	1:A:227:LEU:O	1.80	0.82
1:B:534:ILE:O	1:B:726:ARG:NH2	2.12	0.82
2:M:126:THR:HG21	2:M:160:LEU:HD21	1.60	0.82
2:P:41:LEU:O	2:P:45:ILE:HD12	1.79	0.82
2:Q:103:ASN:H	2:Q:214:LYS:HE3	1.44	0.82
2:R:826:GLU:HG3	2:R:827:LYS:HD2	1.61	0.82
2:S:198:GLU:HA	2:S:201:GLU:OE1	1.79	0.82
1:I:527:ARG:NH1	1:I:704:GLU:OE2	2.13	0.82
2:O:562:PRO:HG2	2:O:570:PHE:CZ	2.15	0.82
2:P:258:SER:O	2:P:262:ARG:HG2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:269:TYR:HE1	2:P:286:ARG:HD3	1.45	0.82
2:Q:770:ASN:OD1	2:Q:773:LYS:N	2.10	0.82
2:R:297:TYR:HA	2:R:300:LYS:NZ	1.94	0.82
2:S:386:PHE:HA	2:S:389:LYS:NZ	1.94	0.82
2:M:426:LEU:HA	2:M:429:ILE:HG12	1.59	0.81
2:M:519:ALA:HB2	2:M:531:LEU:HD22	1.62	0.81
2:Q:511:PHE:HB2	2:Q:535:TYR:CZ	2.14	0.81
2:R:170:LYS:HE3	2:R:170:LYS:HA	1.62	0.81
2:S:49:ILE:HD11	2:S:102:VAL:HA	1.61	0.81
2:S:108:PRO:HG2	2:S:131:LYS:NZ	1.95	0.81
2:N:103:ASN:ND2	2:N:212:ASP:O	2.13	0.81
2:O:160:LEU:O	2:O:164:LEU:HG	1.79	0.81
2:P:313:MET:HA	2:P:316:LEU:HG	1.61	0.81
2:R:296:GLN:OE1	2:R:300:LYS:NZ	2.12	0.81
2:R:316:LEU:HD23	2:R:325:LYS:NZ	1.95	0.81
2:S:314:LEU:HD11	2:S:369:ASN:HD21	1.45	0.81
1:E:552:THR:HG1	1:E:555:THR:HG1	0.84	0.81
1:G:377:TYR:OH	1:G:414:VAL:O	1.96	0.81
2:M:261:ILE:O	2:M:265:GLN:HG3	1.80	0.81
2:M:469:GLN:HE22	2:S:543:ARG:HD2	1.44	0.81
2:N:593:ILE:HG13	2:N:601:LYS:HG3	1.62	0.81
2:N:768:GLN:HE21	2:N:931:THR:HG21	1.45	0.81
2:N:804:GLU:HA	2:N:807:ARG:NH2	1.94	0.81
2:O:49:ILE:HG21	2:O:104:ILE:HD11	1.61	0.81
2:P:592:ASN:O	2:P:595:THR:HG22	1.80	0.81
2:P:604:MET:O	2:P:608:LEU:HG	1.79	0.81
2:Q:110:ILE:HD12	2:Q:219:THR:O	1.80	0.81
2:Q:243:SER:HB3	2:Q:246:LEU:HD23	1.62	0.81
2:Q:304:VAL:HA	2:Q:307:ARG:CZ	2.11	0.81
2:Q:444:ASP:HB2	2:Q:542:GLY:O	1.80	0.81
2:Q:568:GLY:O	2:Q:575:GLN:N	2.14	0.81
2:R:173:LYS:HZ1	2:R:175:GLU:HG3	1.00	0.81
2:R:259:GLN:OE1	2:R:262:ARG:NH2	2.12	0.81
2:R:282:ARG:HA	2:R:285:GLU:OE2	1.80	0.81
2:S:297:TYR:O	2:S:301:LEU:HD12	1.79	0.81
2:S:729:PRO:HB2	2:S:734:ILE:HD11	1.62	0.81
2:N:154:GLN:NE2	2:N:155:ASN:OD1	2.13	0.81
2:N:740:ARG:HG3	2:N:744:ASN:HD21	1.45	0.81
2:P:155:ASN:O	2:P:159:GLN:NE2	2.13	0.81
2:P:448:LYS:HB3	2:P:542:GLY:HA3	1.62	0.81
2:P:764:ARG:O	2:P:863:CYS:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:864:SER:O	2:P:868:LEU:N	2.12	0.81
2:Q:452:THR:HA	2:Q:455:LYS:NZ	1.96	0.81
2:Q:575:GLN:NE2	2:Q:617:MET:HG2	1.96	0.81
2:R:539:MET:HB2	2:R:550:TRP:CD1	2.16	0.81
2:R:869:ASN:OD1	2:R:870:LYS:HD3	1.80	0.81
1:H:222:ALA:O	1:H:279:LYS:NZ	2.12	0.81
2:M:180:ALA:HA	2:M:194:GLN:CG	2.11	0.81
2:P:269:TYR:HB2	2:P:274:LEU:HD21	1.61	0.81
2:Q:448:LYS:HD3	2:Q:542:GLY:HA3	1.63	0.81
2:Q:639:ARG:NH2	2:Q:707:SER:O	2.14	0.81
1:C:86:GLY:O	1:C:89:LYS:NZ	2.12	0.81
1:D:151:THR:OG1	1:D:745:LEU:O	1.98	0.81
1:J:165:TRP:NE1	1:J:299:GLN:OE1	2.13	0.81
2:N:261:ILE:CD1	2:N:294:GLU:HG2	2.10	0.81
2:N:418:ARG:HG3	2:N:485:GLN:HE21	1.43	0.81
2:N:494:LEU:HD13	2:N:720:VAL:HG13	1.63	0.81
2:O:723:ILE:HG21	2:O:836:LYS:HE3	1.61	0.81
2:Q:443:MET:SD	2:Q:496:LYS:HB3	2.21	0.81
2:S:723:ILE:HG23	2:S:844:LEU:HD11	1.60	0.81
1:B:151:THR:OG1	1:B:745:LEU:O	1.99	0.81
1:J:671:GLU:OE2	1:K:58:GLN:NE2	2.13	0.81
1:K:215:ARG:NH2	1:K:263:LYS:O	2.14	0.81
2:P:314:LEU:HA	2:P:317:VAL:HG22	1.63	0.81
2:Q:70:ASN:ND2	2:Q:246:LEU:O	2.13	0.81
2:R:223:ILE:HD13	2:R:230:GLY:HA3	1.62	0.81
2:S:199:ILE:O	2:S:203:LEU:HG	1.80	0.81
2:S:218:ILE:CD1	2:S:248:VAL:HG22	2.10	0.81
2:S:445:SER:HA	2:S:448:LYS:NZ	1.96	0.81
2:S:479:SER:HA	2:S:482:LEU:HD21	1.62	0.81
2:S:819:LYS:O	2:S:823:ILE:HG12	1.81	0.81
1:J:450:MET:SD	1:J:454:LYS:NZ	2.53	0.81
1:K:100:THR:O	1:K:103:SER:OG	1.96	0.81
2:N:335:SER:HB2	2:N:337:GLN:HE22	1.43	0.81
2:P:195:ASP:O	2:P:199:ILE:HD12	1.79	0.81
2:P:318:GLY:HA2	2:P:323:ALA:CB	2.09	0.81
2:Q:390:LYS:HE3	2:Q:413:VAL:HG22	1.61	0.81
2:R:512:ASN:O	2:R:516:THR:OG1	1.97	0.81
2:S:156:HIS:HA	2:S:159:GLN:OE1	1.80	0.81
2:M:473:GLU:OE1	2:M:476:ARG:NH1	2.14	0.81
2:N:763:GLY:HA3	2:N:773:LYS:HE3	1.63	0.81
2:O:828:LEU:HG	2:O:833:LYS:CD	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:235:GLU:OE1	2:P:238:ARG:HD3	1.81	0.81
2:Q:611:VAL:HB	2:Q:619:PHE:HE1	1.46	0.81
2:R:874:PHE:CZ	2:R:878:ILE:HD11	2.16	0.81
2:S:282:ARG:NE	2:S:285:GLU:OE2	2.14	0.81
1:C:794:ARG:NH1	1:C:796:HIS:O	2.14	0.81
2:M:108:PRO:CB	2:N:191:ILE:HG13	2.11	0.81
2:M:235:GLU:HA	2:M:238:ARG:NE	1.95	0.81
2:M:856:PHE:HB2	2:M:887:LEU:HD11	1.63	0.81
2:O:807:ARG:HE	2:O:820:LYS:HE3	1.46	0.81
2:P:415:ASN:HA	2:P:418:ARG:CG	2.11	0.81
2:Q:314:LEU:HA	2:Q:372:LEU:HD21	1.61	0.81
1:H:486:VAL:HG13	1:H:632:LEU:HD22	1.62	0.80
2:P:540:SER:HA	2:P:543:ARG:CZ	2.11	0.80
2:R:217:LEU:HD11	2:R:249:VAL:CG2	2.11	0.80
2:R:336:MET:HE2	2:R:341:ALA:HB2	1.63	0.80
2:S:109:THR:O	2:S:128:ARG:NH1	2.14	0.80
1:E:565:ARG:O	1:E:568:ARG:NH1	2.13	0.80
1:I:435:HIS:NE2	1:I:474:HIS:O	2.11	0.80
1:J:505:HIS:O	1:J:508:SER:OG	1.97	0.80
1:J:529:GLY:N	1:J:704:GLU:OE1	2.14	0.80
2:O:113:THR:HG22	2:O:226:GLN:HB3	1.62	0.80
2:P:453:TYR:CE1	2:P:478:CYS:HB2	2.16	0.80
2:P:852:HIS:HA	2:P:855:ILE:CD1	2.11	0.80
2:Q:332:THR:HG23	2:Q:387:TYR:CG	2.15	0.80
2:R:218:ILE:HD11	2:R:248:VAL:CG2	2.06	0.80
2:S:237:ILE:HA	2:S:241:PHE:CD2	2.16	0.80
2:S:810:PRO:HG3	2:S:816:GLU:HB2	1.62	0.80
2:S:874:PHE:CZ	2:S:878:ILE:HD11	2.17	0.80
1:L:227:LEU:HD12	1:L:227:LEU:O	1.80	0.80
2:M:108:PRO:HD2	2:M:128:ARG:HD3	1.61	0.80
2:M:819:LYS:HE3	2:M:820:LYS:HZ2	1.46	0.80
2:N:216:ILE:O	2:N:246:LEU:HD12	1.81	0.80
2:O:318:GLY:HA2	2:O:323:ALA:CB	2.12	0.80
2:O:354:GLU:CG	2:O:413:VAL:HG11	2.10	0.80
2:P:226:GLN:NE2	2:P:228:ASP:HB2	1.94	0.80
2:P:382:VAL:HG12	2:P:424:SER:OG	1.79	0.80
2:Q:503:VAL:HG12	2:Q:541:VAL:HG23	1.62	0.80
2:Q:609:SER:N	2:Q:619:PHE:O	2.15	0.80
2:R:368:VAL:HA	2:R:371:LEU:HD12	1.63	0.80
2:M:599:LEU:HD11	2:M:850:ILE:HD13	1.62	0.80
2:P:720:VAL:HG22	2:P:844:LEU:HD22	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:267:GLU:OE2	2:S:272:THR:OG1	2.00	0.80
2:S:136:LYS:HE3	2:S:211:LEU:HA	1.63	0.80
1:L:690:GLN:NE2	1:L:737:GLY:O	2.15	0.80
2:M:353:ARG:NE	2:M:360:GLU:HG3	1.95	0.80
2:M:536:VAL:HG13	2:M:541:VAL:HG12	1.61	0.80
2:O:770:ASN:OD1	2:O:773:LYS:HG3	1.81	0.80
2:Q:488:GLU:OE1	2:Q:489:ASN:ND2	2.14	0.80
2:S:315:GLN:O	2:S:325:LYS:NZ	2.12	0.80
2:M:358:LEU:HD21	2:M:364:ALA:HB2	1.64	0.80
2:N:279:GLU:HG3	2:N:282:ARG:CZ	2.11	0.80
2:N:440:ARG:NH1	2:O:471:GLU:O	2.14	0.80
2:Q:331:LYS:NZ	2:Q:334:PRO:O	2.13	0.80
2:Q:493:SER:OG	2:Q:496:LYS:HB2	1.81	0.80
2:R:552:ASN:OD1	2:R:553:ARG:N	2.15	0.80
2:S:858:ILE:HD12	2:S:915:THR:CA	2.11	0.80
2:N:313:MET:CE	2:N:328:ILE:HG13	2.12	0.80
2:N:737:VAL:HG12	2:N:789:GLU:HB2	1.64	0.80
2:O:205:LYS:HA	2:O:245:LYS:NZ	1.97	0.80
2:P:168:THR:HG21	2:Q:172:TYR:HD2	1.45	0.80
2:P:440:ARG:NH2	2:Q:373:LYS:HB3	1.96	0.80
2:P:526:GLU:O	2:P:529:GLU:HG3	1.80	0.80
2:P:704:THR:HG23	2:P:705:GLU:H	1.45	0.80
2:Q:279:GLU:OE2	2:Q:282:ARG:NH1	2.15	0.80
2:Q:367:TYR:HA	2:Q:370:GLU:OE2	1.82	0.80
2:Q:773:LYS:CD	2:Q:860:GLY:HA2	2.11	0.80
2:R:418:ARG:NE	2:R:485:GLN:OE1	2.15	0.80
2:R:741:PHE:CZ	2:R:745:LEU:HD11	2.16	0.80
2:S:612:ALA:HB2	2:S:654:THR:HG22	1.62	0.80
1:A:55:TYR:OH	1:L:673:VAL:O	1.98	0.80
1:C:220:ARG:NH2	1:C:255:ALA:O	2.15	0.80
2:M:355:GLY:HA3	2:M:417:LEU:CD1	2.10	0.80
2:N:357:ASN:CG	2:N:728:ARG:HB3	2.01	0.80
2:O:156:HIS:CD2	2:O:206:ARG:HD2	2.17	0.80
2:O:273:LEU:HD12	2:O:277:GLU:OE1	1.81	0.80
2:O:371:LEU:O	2:O:374:GLN:HG2	1.80	0.80
2:O:639:ARG:HA	2:O:642:ILE:HD12	1.63	0.80
2:Q:226:GLN:NE2	2:Q:228:ASP:HB2	1.96	0.80
2:Q:747:ASN:OD1	2:Q:751:GLN:CD	2.21	0.80
2:S:122:LEU:HD11	2:S:240:PHE:CG	2.16	0.80
2:S:536:VAL:HG13	2:S:541:VAL:CG1	2.11	0.80
1:K:236:ASN:N	1:K:239:GLN:OE1	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:136:LYS:HG2	2:M:211:LEU:CD1	2.10	0.80
2:M:304:VAL:HG12	2:M:307:ARG:HH12	1.47	0.80
2:O:49:ILE:HD13	2:O:104:ILE:HD11	1.63	0.80
2:O:86:ILE:O	2:O:90:VAL:HG23	1.81	0.80
2:O:272:THR:HA	2:O:275:GLU:OE2	1.82	0.80
2:O:468:PRO:HB3	2:O:476:ARG:O	1.82	0.80
2:O:512:ASN:HA	2:O:516:THR:HG23	1.64	0.80
2:O:570:PHE:HB2	2:O:573:MET:CG	2.11	0.80
2:P:332:THR:H	2:P:336:MET:CE	1.95	0.80
2:P:421:LEU:HB3	2:P:481:TYR:HD1	1.47	0.80
2:R:133:VAL:HB	2:R:153:TRP:CH2	2.17	0.80
2:S:584:MET:CE	2:S:589:LYS:HA	2.11	0.80
1:B:389:TRP:O	1:B:403:ASN:ND2	2.15	0.80
1:D:723:HIS:HD1	1:D:727:TRP:HZ3	1.27	0.80
1:E:511:ARG:NE	1:E:559:ASP:OD1	2.13	0.80
2:N:436:TYR:OH	2:O:253:ASP:OD1	2.00	0.80
2:O:131:LYS:HG3	2:P:192:GLY:HA2	1.63	0.80
2:O:381:GLN:HE21	2:P:304:VAL:HG22	1.46	0.80
2:P:597:ASN:OD1	2:P:911:GLN:HA	1.82	0.80
2:P:752:HIS:NE2	2:P:811:VAL:O	2.15	0.80
2:Q:111:ASP:HA	2:Q:221:ASP:HB3	1.64	0.80
2:S:177:PHE:O	2:S:181:LEU:HG	1.82	0.80
1:A:514:ASP:OD2	1:A:565:ARG:NH2	2.15	0.79
2:M:105:LYS:HG2	2:M:213:CYS:CB	2.12	0.79
2:M:191:ILE:HG13	2:S:108:PRO:HB3	1.64	0.79
2:M:723:ILE:HD12	2:M:844:LEU:HD21	1.63	0.79
2:N:748:VAL:O	2:N:752:HIS:ND1	2.15	0.79
2:N:819:LYS:O	2:N:823:ILE:HG12	1.82	0.79
2:N:874:PHE:CZ	2:N:878:ILE:HD11	2.18	0.79
2:Q:800:GLU:OE2	2:Q:803:GLY:N	2.15	0.79
2:Q:857:PRO:HG2	2:Q:860:GLY:HA3	1.64	0.79
2:R:578:ARG:O	2:R:590:LYS:NZ	2.12	0.79
2:S:259:GLN:HG3	2:S:262:ARG:HH21	1.48	0.79
1:I:387:MET:SD	1:I:388:GLU:N	2.54	0.79
1:I:511:ARG:NE	1:I:559:ASP:OD1	2.16	0.79
2:N:724:GLU:HA	2:N:727:ILE:CD1	2.13	0.79
2:N:804:GLU:OE1	2:N:807:ARG:NH2	2.15	0.79
2:O:555:CYS:HB3	2:O:619:PHE:HZ	1.48	0.79
2:P:43:GLU:HG3	2:P:46:ARG:NH2	1.96	0.79
2:Q:787:LEU:HD11	2:Q:824:ILE:HD12	1.63	0.79
2:S:311:LYS:CE	2:S:315:GLN:HB3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:764:ARG:HB2	2:S:863:CYS:HB2	1.61	0.79
2:M:638:GLU:O	2:M:642:ILE:HG12	1.81	0.79
2:N:576:LEU:HB3	2:N:618:ASP:O	1.81	0.79
2:O:198:GLU:HA	2:O:201:GLU:OE1	1.83	0.79
2:O:204:VAL:HG12	2:O:245:LYS:HD2	1.63	0.79
2:O:770:ASN:ND2	2:O:918:ASN:OD1	2.16	0.79
2:P:728:ARG:NH2	2:P:796:VAL:HA	1.98	0.79
2:P:791:SER:O	2:P:800:GLU:HG3	1.82	0.79
2:R:153:TRP:O	2:R:157:LEU:HG	1.81	0.79
2:R:156:HIS:HA	2:R:159:GLN:OE1	1.82	0.79
2:R:894:TYR:HA	2:R:897:LYS:HG2	1.63	0.79
2:S:136:LYS:CD	2:S:211:LEU:HD13	2.10	0.79
2:S:359:ARG:NH2	2:S:794:HIS:O	2.15	0.79
2:S:579:LYS:HD3	2:S:581:ARG:HB2	1.64	0.79
1:F:472:GLU:OE2	1:F:501:GLU:N	2.15	0.79
1:J:100:THR:O	1:J:103:SER:OG	2.00	0.79
2:M:747:ASN:ND2	2:M:811:VAL:HG21	1.96	0.79
2:N:136:LYS:CE	2:N:211:LEU:HA	2.11	0.79
2:N:156:HIS:HA	2:N:159:GLN:OE1	1.82	0.79
2:N:265:GLN:HE22	2:N:294:GLU:CA	1.95	0.79
2:Q:149:GLN:O	2:Q:206:ARG:NH2	2.16	0.79
2:Q:285:GLU:OE2	2:Q:286:ARG:NH1	2.15	0.79
2:Q:596:GLU:OE2	2:Q:915:THR:N	2.12	0.79
2:R:371:LEU:HA	2:R:374:GLN:OE1	1.83	0.79
2:S:112:PRO:HB2	2:S:229:ALA:HB1	1.63	0.79
2:S:711:THR:O	2:S:715:GLN:HG3	1.83	0.79
1:F:271:CYS:O	1:F:274:THR:OG1	2.01	0.79
2:N:635:CYS:O	2:N:636:ARG:HG2	1.82	0.79
2:O:325:LYS:O	2:O:326:GLU:HG3	1.83	0.79
2:O:577:ASN:ND2	2:O:921:THR:HB	1.98	0.79
2:O:858:ILE:HD12	2:O:915:THR:CA	2.11	0.79
2:P:512:ASN:HA	2:P:516:THR:CG2	2.13	0.79
2:R:283:LEU:HD13	2:R:286:ARG:NH2	1.98	0.79
2:R:609:SER:N	2:R:619:PHE:O	2.14	0.79
2:R:758:ARG:NH1	2:R:928:ASP:O	2.16	0.79
2:R:765:MET:HG2	2:R:767:SER:H	1.48	0.79
2:S:540:SER:HA	2:S:543:ARG:HE	1.48	0.79
1:C:236:ASN:N	1:C:239:GLN:OE1	2.16	0.79
1:D:597:GLU:OE2	1:F:651:ARG:NH1	2.16	0.79
2:M:733:LEU:O	2:M:737:VAL:HG23	1.82	0.79
2:P:497:PHE:CE2	2:P:501:LEU:HD11	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:180:ALA:HA	2:R:194:GLN:HG2	1.64	0.79
2:R:426:LEU:HD11	2:S:298:LEU:CD2	2.11	0.79
2:S:366:MET:CE	2:S:467:ARG:HD3	2.13	0.79
1:C:273:LEU:HA	1:C:276:LEU:HD12	1.64	0.79
1:D:228:PRO:HG3	2:P:148:LYS:HE3	1.65	0.79
1:G:297:LEU:O	1:G:301:GLN:NE2	2.14	0.79
2:M:852:HIS:HA	2:M:855:ILE:CD1	2.12	0.79
2:N:425:MET:HG2	2:N:428:ASN:HB2	1.63	0.79
2:O:441:PHE:O	2:O:445:SER:OG	2.01	0.79
2:O:611:VAL:N	2:O:617:MET:O	2.14	0.79
2:O:762:HIS:HB3	2:O:764:ARG:CD	2.13	0.79
2:Q:609:SER:O	2:Q:619:PHE:N	2.15	0.79
1:J:343:GLY:N	1:J:349:GLN:OE1	2.16	0.79
2:M:216:ILE:HB	2:M:246:LEU:HD23	1.65	0.79
2:P:575:GLN:HG2	2:P:617:MET:HE2	1.62	0.79
2:Q:890:GLU:OE2	2:Q:891:GLU:HG3	1.82	0.79
2:R:728:ARG:NH2	2:R:796:VAL:HA	1.97	0.79
2:S:501:LEU:HD13	2:S:734:ILE:HG23	1.63	0.79
1:C:597:GLU:OE2	1:L:599:SER:OG	1.99	0.79
2:M:599:LEU:HD13	2:M:709:ALA:HB1	1.65	0.79
2:M:626:ILE:HD13	2:M:629:ILE:HD12	1.64	0.79
2:N:69:ARG:NH1	2:N:69:ARG:HA	1.98	0.79
2:N:277:GLU:HG3	2:N:282:ARG:HE	1.45	0.79
2:N:287:GLY:O	2:N:291:GLU:HG2	1.83	0.79
2:O:152:GLN:HA	2:O:155:ASN:ND2	1.97	0.79
2:P:783:LEU:HD21	2:P:845:LEU:CB	2.13	0.79
2:Q:303:PRO:HG2	2:Q:306:LYS:HD3	1.64	0.79
2:Q:839:HIS:HB3	2:Q:842:PHE:HB3	1.65	0.79
2:S:370:GLU:OE2	2:S:476:ARG:NH1	2.16	0.79
1:E:460:THR:O	1:E:464:ARG:NE	2.16	0.79
1:F:100:THR:O	1:F:103:SER:OG	1.99	0.79
1:K:611:GLY:O	1:K:639:ARG:NH2	2.16	0.79
2:N:465:TYR:HB3	2:N:467:ARG:HG2	1.64	0.79
2:N:466:LEU:O	2:N:479:SER:HB2	1.83	0.79
2:O:551:ALA:HA	2:O:623:PHE:CE2	2.16	0.79
2:Q:76:GLY:CA	2:Q:82:LYS:HE2	2.13	0.79
2:S:453:TYR:HA	2:S:456:GLN:OE1	1.82	0.79
1:A:100:THR:O	1:A:103:SER:OG	2.00	0.78
1:G:212:CYS:SG	1:G:215:ARG:NH2	2.56	0.78
1:I:721:GLU:N	1:I:721:GLU:OE1	2.15	0.78
2:N:788:VAL:O	2:N:792:LEU:HD13	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:74:VAL:HA	2:P:308:ILE:CG2	2.14	0.78
2:R:331:LYS:HE3	2:R:384:GLN:HE22	1.48	0.78
2:S:123:VAL:HG22	2:S:164:LEU:HD11	1.63	0.78
2:S:446:LEU:HD11	2:S:486:VAL:CG1	2.13	0.78
1:H:431:GLU:OE2	1:H:435:HIS:N	2.16	0.78
1:K:507:ILE:HD11	1:K:680:LEU:HD21	1.63	0.78
1:L:548:SER:OG	1:L:674:GLU:OE2	2.00	0.78
2:M:446:LEU:HD21	2:M:486:VAL:HA	1.63	0.78
2:N:839:HIS:HB3	2:N:842:PHE:HB3	1.65	0.78
2:Q:112:PRO:HG2	2:Q:223:ILE:HG22	1.65	0.78
1:C:641:ARG:NH1	1:C:642:GLU:OE1	2.16	0.78
1:G:649:MET:O	1:G:653:LEU:HG	1.83	0.78
2:M:370:GLU:O	2:M:374:GLN:NE2	2.13	0.78
2:M:543:ARG:HH12	2:N:470:SER:HA	1.47	0.78
2:M:608:LEU:O	2:M:624:ASN:ND2	2.16	0.78
2:N:107:LEU:CD2	2:N:218:ILE:HA	2.13	0.78
2:P:711:THR:O	2:P:715:GLN:HG3	1.83	0.78
2:Q:741:PHE:CE1	2:Q:782:PHE:HA	2.19	0.78
2:S:232:ASP:HA	2:S:235:GLU:OE1	1.83	0.78
1:B:472:GLU:OE2	1:B:501:GLU:N	2.16	0.78
2:N:271:LYS:HA	2:N:274:LEU:CD2	2.12	0.78
2:O:758:ARG:HD3	2:O:928:ASP:O	1.84	0.78
2:P:71:VAL:N	2:P:306:LYS:HE2	1.98	0.78
2:P:136:LYS:HZ1	2:P:210:ILE:HB	1.49	0.78
2:P:575:GLN:NE2	2:P:576:LEU:O	2.15	0.78
2:Q:279:GLU:OE2	2:Q:282:ARG:HD2	1.84	0.78
2:R:772:ALA:HA	2:R:917:LEU:HD23	1.64	0.78
2:S:286:ARG:HA	2:S:286:ARG:CZ	2.14	0.78
2:S:452:THR:O	2:S:455:LYS:HG2	1.84	0.78
2:S:769:SER:HA	2:S:773:LYS:HE3	1.62	0.78
2:M:121:ILE:O	2:M:125:VAL:HG23	1.84	0.78
2:M:510:ILE:HG21	2:M:554:CYS:SG	2.24	0.78
2:N:195:ASP:HB3	2:N:198:GLU:CG	2.14	0.78
2:N:363:ASP:HA	2:N:366:MET:HG3	1.65	0.78
2:O:381:GLN:NE2	2:P:305:GLN:OE1	2.16	0.78
2:O:390:LYS:CB	2:O:416:LEU:HD21	2.14	0.78
2:P:828:LEU:HA	2:P:833:LYS:HB2	1.65	0.78
2:Q:40:GLN:HA	2:Q:43:GLU:OE1	1.84	0.78
2:Q:872:THR:HG22	2:Q:892:TRP:HZ2	1.49	0.78
2:R:872:THR:HA	2:R:892:TRP:CZ2	2.19	0.78
2:S:71:VAL:N	2:S:306:LYS:HE2	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:GLU:OE2	1:D:173:GLU:N	2.17	0.78
1:K:271:CYS:O	1:K:274:THR:OG1	2.01	0.78
2:M:580:SER:HB3	2:M:590:LYS:CD	2.12	0.78
2:N:147:ARG:HG3	2:N:149:GLN:OE1	1.84	0.78
2:O:237:ILE:HA	2:O:241:PHE:CD2	2.18	0.78
2:P:140:TYR:O	2:P:147:ARG:NH1	2.17	0.78
2:P:225:THR:OG1	2:Q:238:ARG:NH2	2.13	0.78
2:P:572:GLY:HA2	2:P:745:LEU:HD12	1.64	0.78
2:P:575:GLN:HG2	2:P:617:MET:CE	2.13	0.78
2:P:740:ARG:HH12	2:P:788:VAL:HG11	1.48	0.78
2:Q:195:ASP:HB3	2:Q:198:GLU:HG2	1.65	0.78
2:Q:448:LYS:CD	2:Q:542:GLY:HA3	2.14	0.78
2:R:103:ASN:H	2:R:214:LYS:HE2	1.49	0.78
2:S:363:ASP:O	2:S:366:MET:HG3	1.83	0.78
1:C:227:LEU:O	1:C:227:LEU:HD12	1.83	0.78
1:C:643:LEU:HG	1:C:653:LEU:HD21	1.65	0.78
1:K:538:PRO:HG3	1:K:685:VAL:HG11	1.64	0.78
2:O:69:ARG:HG3	2:O:70:ASN:H	1.47	0.78
2:O:333:GLU:H	2:O:336:MET:HE3	1.46	0.78
2:Q:787:LEU:HB2	2:Q:842:PHE:CE1	2.18	0.78
2:R:621:SER:OG	2:R:624:ASN:N	2.16	0.78
1:G:304:THR:HG22	1:G:308:GLN:OE1	1.82	0.78
2:M:367:TYR:CE1	2:M:468:PRO:HD3	2.19	0.78
2:N:764:ARG:NH2	2:N:861:ILE:O	2.16	0.78
2:O:852:HIS:O	2:O:855:ILE:HG22	1.83	0.78
2:R:751:GLN:CD	2:R:811:VAL:HG11	2.04	0.78
2:S:148:LYS:HA	2:S:151:GLU:OE2	1.82	0.78
2:S:234:LEU:HB3	2:S:238:ARG:HH12	1.48	0.78
2:S:367:TYR:CE1	2:S:468:PRO:HD3	2.19	0.78
1:D:487:LEU:O	1:D:490:SER:OG	1.99	0.78
1:H:244:THR:OG1	1:H:252:TYR:O	2.02	0.78
2:M:330:VAL:HG12	2:M:343:ASP:O	1.84	0.78
2:M:467:ARG:NH1	2:M:469:GLN:HA	1.98	0.78
2:O:390:LYS:O	2:O:394:THR:HG23	1.84	0.78
2:O:424:SER:O	2:P:295:GLN:NE2	2.17	0.78
2:O:552:ASN:OD1	2:O:553:ARG:N	2.17	0.78
2:P:305:GLN:OE1	2:P:305:GLN:N	2.17	0.78
2:S:105:LYS:HD3	2:S:213:CYS:CB	2.14	0.78
2:S:750:ASP:HA	2:S:753:LYS:NZ	1.98	0.78
2:M:261:ILE:CG2	2:M:294:GLU:HG2	2.14	0.78
2:M:412:SER:OG	2:M:488:GLU:OE2	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:49:ILE:CD1	2:N:104:ILE:HD11	2.13	0.78
2:O:872:THR:O	2:O:876:LYS:HG2	1.83	0.78
2:Q:269:TYR:CD2	2:Q:274:LEU:HD21	2.19	0.78
2:Q:552:ASN:OD1	2:Q:553:ARG:N	2.17	0.78
2:Q:764:ARG:HG3	2:Q:863:CYS:SG	2.24	0.78
2:R:311:LYS:CE	2:R:315:GLN:HB3	2.13	0.78
2:S:318:GLY:HA2	2:S:323:ALA:CB	2.13	0.78
1:D:150:GLU:OE2	1:D:152:HIS:N	2.17	0.77
2:M:107:LEU:HB3	2:M:128:ARG:HD3	1.66	0.77
2:M:611:VAL:O	2:M:616:LEU:HA	1.84	0.77
2:M:857:PRO:CB	2:M:914:ILE:HB	2.13	0.77
2:O:151:GLU:O	2:O:154:GLN:NE2	2.17	0.77
2:O:298:LEU:HA	2:O:301:LEU:CG	2.13	0.77
2:O:589:LYS:N	2:O:919:SER:O	2.17	0.77
2:P:320:LYS:NZ	2:P:369:ASN:OD1	2.16	0.77
2:Q:748:VAL:HG12	2:Q:811:VAL:HG13	1.64	0.77
2:R:764:ARG:NH1	2:R:863:CYS:SG	2.57	0.77
2:S:493:SER:OG	2:S:496:LYS:HB2	1.84	0.77
2:S:712:LYS:HG3	2:S:849:PRO:HB3	1.64	0.77
1:I:220:ARG:NH2	1:I:255:ALA:O	2.16	0.77
2:M:108:PRO:HB2	2:M:128:ARG:HE	1.49	0.77
2:O:157:LEU:O	2:O:160:LEU:HG	1.84	0.77
2:P:511:PHE:CD1	2:P:515:VAL:HB	2.20	0.77
2:P:567:ILE:HG21	2:P:753:LYS:HG2	1.66	0.77
2:R:869:ASN:OD1	2:R:870:LYS:N	2.17	0.77
2:S:70:ASN:HA	2:S:306:LYS:NZ	1.99	0.77
2:S:70:ASN:ND2	2:S:246:LEU:O	2.16	0.77
2:S:366:MET:HE1	2:S:467:ARG:HD3	1.67	0.77
2:S:644:ASN:O	2:S:648:LYS:HG2	1.82	0.77
1:K:282:PHE:CG	2:S:148:LYS:HD3	2.19	0.77
2:M:108:PRO:HB3	2:N:191:ILE:HG13	1.65	0.77
2:M:295:GLN:HG2	2:S:427:SER:HB3	1.65	0.77
2:M:440:ARG:HH12	2:N:373:LYS:HB3	1.49	0.77
2:N:453:TYR:HA	2:N:456:GLN:HE22	1.50	0.77
2:N:872:THR:O	2:N:876:LYS:HG2	1.83	0.77
2:O:921:THR:HG23	2:O:927:TYR:CE2	2.17	0.77
2:R:524:ASP:HB3	2:R:527:LYS:CD	2.14	0.77
2:S:156:HIS:HB3	2:S:203:LEU:CD2	2.14	0.77
2:S:158:ALA:O	2:S:161:GLN:HG3	1.83	0.77
2:S:584:MET:HE3	2:S:588:TYR:O	1.84	0.77
1:C:152:HIS:ND1	1:C:704:GLU:OE1	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:44:LEU:CD2	1:E:49:ALA:HB2	2.14	0.77
1:J:227:LEU:O	1:J:227:LEU:HD12	1.85	0.77
2:M:297:TYR:CA	2:M:300:LYS:HE3	2.14	0.77
2:N:297:TYR:O	2:N:301:LEU:HG	1.84	0.77
2:N:817:PHE:CE2	2:N:821:ILE:HD11	2.19	0.77
2:O:87:ASN:HB3	2:O:91:LYS:NZ	2.00	0.77
2:O:706:PHE:O	2:O:710:ILE:HG13	1.83	0.77
2:P:86:ILE:CG2	2:P:251:THR:HG21	2.14	0.77
2:P:227:PHE:CZ	2:Q:268:ASN:HB3	2.19	0.77
2:P:846:ILE:HD11	2:P:878:ILE:HG23	1.66	0.77
2:Q:412:SER:O	2:Q:416:LEU:HD13	1.84	0.77
2:Q:486:VAL:HG21	2:Q:731:ALA:CB	2.11	0.77
2:R:286:ARG:HA	2:R:289:MET:HE3	1.67	0.77
2:R:448:LYS:O	2:R:452:THR:HG23	1.83	0.77
2:R:712:LYS:CD	2:R:849:PRO:HB3	2.14	0.77
2:S:233:VAL:O	2:S:237:ILE:HG13	1.82	0.77
2:S:451:PHE:O	2:S:454:VAL:HG12	1.84	0.77
1:F:527:ARG:NH1	1:F:744:CYS:SG	2.56	0.77
1:I:3:ARG:NH2	1:I:40:GLN:OE1	2.17	0.77
2:M:117:ARG:HH11	2:M:118:HIS:H	1.31	0.77
2:M:304:VAL:HG22	2:S:381:GLN:HE22	1.48	0.77
2:M:425:MET:CG	2:M:477:ASN:HD22	1.97	0.77
2:P:37:LEU:HD21	2:P:308:ILE:CG1	2.14	0.77
2:P:543:ARG:HD2	2:Q:469:GLN:NE2	1.99	0.77
2:Q:581:ARG:NH1	2:R:757:TYR:OH	2.17	0.77
2:R:76:GLY:CA	2:R:82:LYS:HE2	2.14	0.77
2:S:356:LEU:HB2	2:S:358:LEU:HG	1.64	0.77
1:D:229:GLU:N	1:D:229:GLU:OE1	2.17	0.77
1:E:150:GLU:OE2	1:E:152:HIS:N	2.17	0.77
2:M:130:ASN:HA	2:M:153:TRP:CH2	2.19	0.77
2:M:434:LEU:HD22	2:M:449:ASP:HA	1.67	0.77
2:N:352:VAL:HG12	2:N:358:LEU:HD23	1.67	0.77
2:N:450:ILE:HG13	2:N:482:LEU:HD13	1.63	0.77
2:N:764:ARG:NE	2:N:863:CYS:SG	2.58	0.77
2:P:356:LEU:HD22	2:P:358:LEU:HD11	1.66	0.77
2:P:453:TYR:HE1	2:P:478:CYS:HB2	1.50	0.77
2:P:819:LYS:NZ	2:P:823:ILE:HD11	2.00	0.77
2:Q:446:LEU:O	2:Q:450:ILE:HD12	1.83	0.77
2:S:104:ILE:HD12	2:S:215:ALA:HB3	1.65	0.77
2:S:551:ALA:HB1	2:S:624:ASN:HA	1.67	0.77
1:D:178:ASP:OD2	1:D:324:THR:OG1	2.01	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:794:ARG:NH1	1:H:796:HIS:O	2.18	0.77
1:I:348:SER:OG	1:I:350:VAL:O	2.03	0.77
2:M:114:LYS:HG3	2:N:239:LYS:CD	2.14	0.77
2:M:511:PHE:CD2	2:M:515:VAL:HB	2.13	0.77
2:M:569:VAL:HG22	2:M:574:VAL:HG22	1.64	0.77
2:M:751:GLN:OE1	2:M:811:VAL:HB	1.84	0.77
2:M:873:SER:HB2	2:M:876:LYS:HE3	1.66	0.77
2:Q:423:GLY:HA3	2:R:307:ARG:NH2	2.00	0.77
2:Q:571:LEU:HD23	2:Q:745:LEU:HB3	1.66	0.77
2:Q:580:SER:HB3	2:Q:590:LYS:CD	2.14	0.77
2:Q:589:LYS:O	2:Q:920:SER:HA	1.85	0.77
2:Q:817:PHE:CE2	2:Q:821:ILE:HD11	2.19	0.77
1:G:220:ARG:NH2	1:G:255:ALA:O	2.17	0.77
1:K:175:CYS:SG	1:K:302:TYR:OH	2.43	0.77
2:M:539:MET:SD	2:M:541:VAL:HB	2.24	0.77
2:N:122:LEU:O	2:N:126:THR:HG23	1.85	0.77
2:N:512:ASN:HA	2:N:516:THR:CG2	2.15	0.77
2:O:493:SER:OG	2:O:496:LYS:HG2	1.84	0.77
2:O:501:LEU:CD1	2:O:734:ILE:HG23	2.14	0.77
2:P:386:PHE:HA	2:P:389:LYS:NZ	1.99	0.77
2:R:45:ILE:O	2:R:48:SER:OG	2.01	0.77
2:R:283:LEU:HD22	2:R:286:ARG:HH12	1.48	0.77
2:S:82:LYS:HB3	2:S:251:THR:HG21	1.66	0.77
2:S:601:LYS:HA	2:S:604:MET:SD	2.25	0.77
2:O:110:ILE:CD1	2:O:218:ILE:HD11	2.15	0.77
2:O:314:LEU:HD13	2:O:372:LEU:HB2	1.67	0.77
2:O:367:TYR:O	2:O:371:LEU:HG	1.85	0.77
2:P:103:ASN:OD1	2:P:214:LYS:HG3	1.85	0.77
2:P:266:TYR:CE2	2:Q:273:LEU:HD13	2.20	0.77
2:P:497:PHE:CD1	2:P:729:PRO:HB3	2.20	0.77
2:Q:173:LYS:CD	2:Q:175:GLU:HB2	2.14	0.77
2:Q:459:ASP:OD2	2:Q:463:GLY:N	2.18	0.77
2:R:872:THR:HA	2:R:892:TRP:HZ2	1.50	0.77
2:S:82:LYS:HB3	2:S:251:THR:CG2	2.15	0.77
2:S:128:ARG:O	2:S:131:LYS:HG2	1.85	0.77
2:S:200:PHE:HA	2:S:203:LEU:HD12	1.65	0.77
2:S:292:HIS:ND1	2:S:293:LEU:HD22	2.00	0.77
2:M:711:THR:O	2:M:715:GLN:HG3	1.83	0.77
2:N:218:ILE:HG23	2:N:246:LEU:HD11	1.64	0.77
2:P:271:LYS:HA	2:P:274:LEU:HD12	1.67	0.77
2:P:611:VAL:HG22	2:P:617:MET:O	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:611:VAL:O	2:S:616:LEU:HD12	1.85	0.77
1:A:375:ARG:NH2	1:A:394:PRO:O	2.18	0.76
1:B:715:GLN:O	1:B:717:ARG:NH1	2.18	0.76
2:M:156:HIS:HB3	2:M:203:LEU:CD2	2.14	0.76
2:M:226:GLN:HE22	2:M:228:ASP:CB	1.98	0.76
2:M:452:THR:HA	2:M:455:LYS:NZ	2.00	0.76
2:M:552:ASN:OD1	2:M:553:ARG:NH1	2.19	0.76
2:M:611:VAL:N	2:M:617:MET:O	2.18	0.76
2:N:816:GLU:HA	2:N:819:LYS:HE2	1.66	0.76
2:P:140:TYR:CZ	2:P:147:ARG:HD2	2.20	0.76
2:P:376:VAL:HG13	2:P:377:ARG:HD2	1.64	0.76
2:P:443:MET:HG3	2:P:496:LYS:HE3	1.67	0.76
2:P:453:TYR:CE1	2:P:475:LEU:HG	2.19	0.76
2:Q:195:ASP:HB3	2:Q:198:GLU:HG3	1.67	0.76
2:S:178:SER:O	2:S:182:LYS:NZ	2.16	0.76
2:S:814:VAL:HG22	2:S:870:LYS:HZ2	1.49	0.76
1:K:408:GLU:OE1	1:L:412:LYS:NZ	2.16	0.76
2:M:305:GLN:OE1	2:S:381:GLN:NE2	2.18	0.76
2:M:518:LEU:HB3	2:M:531:LEU:HD21	1.66	0.76
2:N:130:ASN:HA	2:N:153:TRP:CZ2	2.19	0.76
2:N:443:MET:HE1	2:N:500:MET:N	2.00	0.76
2:Q:297:TYR:O	2:Q:301:LEU:HD23	1.86	0.76
2:R:107:LEU:CD1	2:R:218:ILE:HG22	2.16	0.76
2:R:130:ASN:ND2	2:R:153:TRP:CH2	2.54	0.76
2:R:279:GLU:HG3	2:R:282:ARG:CZ	2.15	0.76
2:S:217:LEU:HD12	2:S:247:VAL:O	1.84	0.76
2:S:386:PHE:HA	2:S:389:LYS:HZ3	1.51	0.76
2:S:452:THR:HA	2:S:455:LYS:NZ	1.99	0.76
1:A:478:GLU:OE2	1:A:610:ARG:NH2	2.17	0.76
1:B:100:THR:O	1:B:103:SER:OG	2.04	0.76
2:N:367:TYR:O	2:N:371:LEU:HD13	1.84	0.76
2:N:467:ARG:HB3	2:N:469:GLN:HE22	1.49	0.76
2:N:573:MET:HB2	2:N:620:CYS:O	1.84	0.76
2:P:389:LYS:HG3	2:P:416:LEU:CD1	2.14	0.76
2:P:470:SER:O	2:P:476:ARG:NE	2.19	0.76
2:Q:573:MET:CE	2:Q:619:PHE:HB3	2.16	0.76
2:Q:639:ARG:NH2	2:Q:711:THR:OG1	2.16	0.76
2:R:103:ASN:ND2	2:R:212:ASP:O	2.18	0.76
2:R:226:GLN:OE1	2:R:229:ALA:N	2.15	0.76
2:R:444:ASP:OD1	2:R:445:SER:N	2.19	0.76
1:C:87:GLY:O	1:C:89:LYS:NZ	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:236:ASN:N	1:E:239:GLN:OE1	2.17	0.76
1:K:487:LEU:O	1:K:490:SER:OG	2.03	0.76
2:M:158:ALA:HB1	2:M:162:ARG:NH2	2.00	0.76
2:M:823:ILE:O	2:M:826:GLU:HG3	1.86	0.76
2:N:757:TYR:CE1	2:N:929:LYS:HE2	2.21	0.76
2:O:748:VAL:HA	2:O:811:VAL:CG1	2.15	0.76
2:O:839:HIS:HB3	2:O:842:PHE:HB3	1.68	0.76
2:P:314:LEU:HD12	2:P:372:LEU:CB	2.14	0.76
2:P:316:LEU:HD12	2:P:317:VAL:HG13	1.67	0.76
2:Q:452:THR:HG23	2:Q:456:GLN:HE22	1.51	0.76
2:R:359:ARG:NE	2:R:794:HIS:O	2.14	0.76
2:S:348:ILE:HD13	2:S:372:LEU:HD21	1.68	0.76
2:S:561:SER:HB3	2:S:562:PRO:HD3	1.66	0.76
1:H:401:LEU:HD11	1:H:459:LEU:HD23	1.67	0.76
1:L:591:VAL:O	1:L:668:GLN:NE2	2.18	0.76
2:M:177:PHE:CE1	2:M:181:LEU:HD11	2.19	0.76
2:M:367:TYR:HE1	2:M:468:PRO:HD3	1.49	0.76
2:M:611:VAL:HB	2:M:617:MET:N	2.00	0.76
2:N:283:LEU:HD12	2:N:284:ALA:N	2.01	0.76
2:N:596:GLU:HG3	2:N:604:MET:CE	2.16	0.76
2:N:850:ILE:O	2:N:853:PRO:HD2	1.86	0.76
2:P:103:ASN:ND2	2:P:212:ASP:O	2.19	0.76
2:P:437:GLU:OE2	2:P:439:HIS:NE2	2.19	0.76
2:P:490:CYS:HB3	2:P:729:PRO:HG2	1.68	0.76
2:Q:217:LEU:HD12	2:Q:247:VAL:O	1.84	0.76
2:Q:465:TYR:HB3	2:Q:467:ARG:CD	2.15	0.76
2:Q:707:SER:HA	2:Q:710:ILE:HD12	1.68	0.76
1:A:27:GLU:OE2	1:L:186:GLN:NE2	2.17	0.76
2:M:118:HIS:O	2:N:172:TYR:HB2	1.86	0.76
2:M:318:GLY:HA2	2:M:323:ALA:CB	2.15	0.76
2:M:545:GLU:OE1	2:M:546:SER:OG	2.02	0.76
2:N:134:SER:O	2:N:138:LYS:N	2.15	0.76
2:N:607:SER:HG	2:N:620:CYS:HG	1.28	0.76
2:O:792:LEU:HD11	2:O:802:ILE:HG21	1.67	0.76
2:P:314:LEU:HB2	2:P:372:LEU:HB3	1.67	0.76
2:P:857:PRO:HB3	2:P:914:ILE:HB	1.66	0.76
2:Q:223:ILE:HD12	2:Q:227:PHE:HA	1.67	0.76
2:S:352:VAL:HG11	2:S:368:VAL:CG1	2.15	0.76
1:B:420:PRO:HG2	1:B:466:VAL:HG12	1.67	0.76
1:C:431:GLU:OE2	1:C:435:HIS:N	2.18	0.76
2:M:268:ASN:HB3	2:S:227:PHE:CZ	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:389:LYS:HG3	2:O:416:LEU:CD1	2.16	0.76
2:O:490:CYS:HA	2:O:496:LYS:HE2	1.68	0.76
2:P:369:ASN:HA	2:P:372:LEU:HD12	1.68	0.76
2:P:452:THR:CA	2:P:455:LYS:HE2	2.11	0.76
2:Q:376:VAL:HG23	2:Q:377:ARG:HD3	1.68	0.76
2:Q:776:ARG:NH1	2:Q:860:GLY:O	2.19	0.76
2:R:86:ILE:HG13	2:R:251:THR:HG21	1.67	0.76
2:R:540:SER:HA	2:R:543:ARG:NH1	2.01	0.76
2:S:390:LYS:HG2	2:S:416:LEU:HD23	1.65	0.76
2:S:438:GLN:HA	2:S:441:PHE:CZ	2.19	0.76
2:S:800:GLU:OE1	2:S:803:GLY:N	2.18	0.76
1:E:714:SER:O	1:E:717:ARG:NH2	2.18	0.76
1:F:745:LEU:HB3	1:F:757:LEU:HD11	1.65	0.76
2:M:110:ILE:HB	2:M:219:THR:O	1.85	0.76
2:M:375:PRO:CB	2:M:378:LEU:HD13	2.12	0.76
2:N:178:SER:HA	2:N:181:LEU:CG	2.16	0.76
2:N:272:THR:O	2:N:276:GLN:HG2	1.84	0.76
2:N:418:ARG:HG3	2:N:485:GLN:HG3	1.68	0.76
2:N:611:VAL:O	2:N:616:LEU:HA	1.86	0.76
2:N:728:ARG:HH21	2:N:796:VAL:HG12	1.50	0.76
2:O:773:LYS:HA	2:O:776:ARG:HG2	1.68	0.76
2:P:105:LYS:HG3	2:P:213:CYS:CB	2.15	0.76
2:P:256:LEU:HA	2:P:259:GLN:NE2	2.00	0.76
2:P:462:THR:OG1	2:P:467:ARG:NH2	2.14	0.76
2:P:769:SER:HA	2:P:773:LYS:HE3	1.67	0.76
2:R:71:VAL:H	2:R:306:LYS:HE3	1.51	0.76
2:R:133:VAL:O	2:R:137:LEU:HG	1.85	0.76
2:R:293:LEU:O	2:R:296:GLN:NE2	2.18	0.76
2:S:332:THR:H	2:S:336:MET:HE3	1.50	0.76
2:S:512:ASN:HA	2:S:516:THR:CG2	2.15	0.76
2:S:612:ALA:HB3	2:S:656:ILE:HD13	1.68	0.76
2:S:727:ILE:HG12	2:S:729:PRO:CD	2.15	0.76
1:H:286:GLU:N	1:H:286:GLU:OE1	2.19	0.76
2:N:117:ARG:NH2	2:O:168:THR:O	2.18	0.76
2:N:704:THR:HG23	2:N:705:GLU:H	1.50	0.76
2:O:195:ASP:O	2:O:199:ILE:HD12	1.85	0.76
2:O:495:SER:CB	2:O:634:ALA:HB2	2.15	0.76
2:Q:530:GLN:O	2:Q:534:GLU:HG2	1.86	0.76
2:Q:570:PHE:HB2	2:Q:573:MET:CG	2.16	0.76
2:R:173:LYS:CE	2:R:175:GLU:HG3	2.14	0.76
2:R:426:LEU:HD12	2:R:427:SER:N	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:116:PRO:HD2	2:S:119:GLU:HG3	1.67	0.76
1:F:505:HIS:O	1:F:508:SER:OG	2.02	0.76
1:J:510:ILE:HG23	1:J:692:VAL:HG21	1.68	0.76
2:O:278:LYS:HA	2:O:283:LEU:HD21	1.66	0.76
2:O:332:THR:H	2:O:336:MET:CE	1.98	0.76
2:O:336:MET:HA	2:O:340:ASP:OD2	1.86	0.76
2:O:751:GLN:OE1	2:O:811:VAL:CB	2.34	0.76
2:R:178:SER:HA	2:R:181:LEU:CD1	2.12	0.76
2:R:444:ASP:O	2:R:542:GLY:HA2	1.84	0.76
2:S:177:PHE:CE2	2:S:181:LEU:HD11	2.21	0.76
1:F:752:ILE:HG21	1:F:755:ALA:HB2	1.68	0.75
2:O:272:THR:O	2:O:276:GLN:HG2	1.86	0.75
2:O:512:ASN:HA	2:O:516:THR:CG2	2.16	0.75
2:P:208:CYS:HA	2:P:213:CYS:SG	2.26	0.75
2:Q:110:ILE:HB	2:Q:220:PHE:CD1	2.20	0.75
2:Q:110:ILE:HG13	2:Q:128:ARG:NH2	2.02	0.75
2:Q:135:ASP:HA	2:Q:138:LYS:HG2	1.66	0.75
2:Q:331:LYS:HE3	2:Q:336:MET:HB2	1.66	0.75
2:Q:444:ASP:OD1	2:Q:445:SER:N	2.19	0.75
2:R:386:PHE:O	2:R:390:LYS:HD3	1.86	0.75
2:R:717:LEU:HA	2:R:720:VAL:HG22	1.68	0.75
2:S:181:LEU:HB2	2:S:182:LYS:NZ	2.01	0.75
2:S:518:LEU:HB2	2:S:531:LEU:CD2	2.15	0.75
1:E:583:GLU:O	1:E:587:LEU:HD13	1.86	0.75
2:M:296:GLN:HA	2:M:299:LEU:HD21	1.68	0.75
2:N:359:ARG:NH2	2:N:794:HIS:O	2.16	0.75
2:N:434:LEU:HD11	2:N:449:ASP:HB3	1.65	0.75
2:N:444:ASP:O	2:N:542:GLY:HA2	1.86	0.75
2:N:493:SER:OG	2:N:496:LYS:HB2	1.86	0.75
2:N:773:LYS:CG	2:N:860:GLY:HA2	2.15	0.75
2:O:108:PRO:HB2	2:O:128:ARG:NH1	2.02	0.75
2:O:295:GLN:HA	2:O:298:LEU:CD2	2.15	0.75
2:P:800:GLU:HB3	2:P:802:ILE:HG22	1.68	0.75
2:Q:74:VAL:HG22	2:Q:308:ILE:HG22	1.67	0.75
2:Q:123:VAL:HG13	2:R:177:PHE:HD1	1.51	0.75
2:S:122:LEU:O	2:S:126:THR:HG23	1.86	0.75
2:S:205:LYS:O	2:S:209:GLU:HG3	1.87	0.75
2:S:545:GLU:OE1	2:S:546:SER:OG	2.01	0.75
1:H:650:LYS:HG3	1:H:651:ARG:N	2.00	0.75
1:I:487:LEU:O	1:I:490:SER:OG	2.03	0.75
2:N:114:LYS:CE	2:O:239:LYS:HA	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:195:ASP:HB3	2:N:198:GLU:HG3	1.68	0.75
2:N:543:ARG:O	2:N:543:ARG:HD2	1.87	0.75
2:O:266:TYR:CE2	2:P:272:THR:HB	2.20	0.75
2:O:276:GLN:HG3	2:O:277:GLU:OE1	1.85	0.75
2:O:298:LEU:HA	2:O:301:LEU:CD2	2.16	0.75
2:O:802:ILE:CG1	2:O:807:ARG:HD2	2.16	0.75
2:Q:206:ARG:O	2:Q:210:ILE:HG13	1.87	0.75
2:Q:535:TYR:CD1	2:Q:539:MET:HE1	2.21	0.75
2:S:74:VAL:HG13	2:S:251:THR:HG23	1.67	0.75
2:S:305:GLN:N	2:S:305:GLN:OE1	2.19	0.75
2:S:524:ASP:HB3	2:S:527:LYS:HE3	1.68	0.75
2:M:107:LEU:HG	2:M:132:MET:HE3	1.69	0.75
2:M:628:ALA:HB1	2:M:649:VAL:HG21	1.68	0.75
2:M:819:LYS:O	2:M:823:ILE:HG12	1.86	0.75
2:N:116:PRO:HG2	2:O:166:LEU:HD13	1.67	0.75
2:O:253:ASP:O	2:O:256:LEU:HG	1.86	0.75
2:O:770:ASN:O	2:O:774:ILE:HD12	1.86	0.75
2:P:180:ALA:HA	2:P:194:GLN:NE2	2.01	0.75
2:P:296:GLN:HA	2:P:299:LEU:HD21	1.68	0.75
2:P:588:TYR:HB3	2:P:921:THR:OG1	1.87	0.75
2:Q:610:THR:HG23	2:Q:618:ASP:OD2	1.86	0.75
2:S:518:LEU:HD11	2:S:660:TRP:CD1	2.21	0.75
1:C:511:ARG:NH2	1:C:515:ASP:OD2	2.20	0.75
1:C:572:GLU:O	1:C:575:ARG:NH1	2.19	0.75
2:N:253:ASP:O	2:N:256:LEU:HG	1.86	0.75
2:N:711:THR:O	2:N:715:GLN:HG3	1.86	0.75
2:O:319:GLU:HG2	2:O:320:LYS:N	2.02	0.75
2:R:205:LYS:HD2	2:R:206:ARG:HE	1.49	0.75
2:R:592:ASN:O	2:R:595:THR:HG22	1.87	0.75
2:R:652:GLN:NE2	2:R:654:THR:OG1	2.17	0.75
2:S:445:SER:HA	2:S:448:LYS:HZ2	1.49	0.75
2:S:568:GLY:O	2:S:575:GLN:N	2.14	0.75
2:S:810:PRO:HG2	2:S:817:PHE:HB2	1.69	0.75
1:E:420:PRO:HG2	1:E:466:VAL:HG12	1.69	0.75
2:M:295:GLN:HG2	2:S:427:SER:OG	1.85	0.75
2:M:535:TYR:O	2:M:539:MET:HG3	1.85	0.75
2:O:502:LEU:HB3	2:O:550:TRP:HZ3	1.51	0.75
2:O:588:TYR:OH	2:O:761:GLU:N	2.20	0.75
2:O:622:VAL:CG1	2:O:778:ASN:HB3	2.16	0.75
2:O:728:ARG:NH2	2:O:796:VAL:HA	2.01	0.75
2:P:352:VAL:O	2:P:356:LEU:HB2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:593:ILE:HD11	2:P:601:LYS:O	1.85	0.75
2:P:780:LEU:HD11	2:P:814:VAL:HG13	1.67	0.75
2:P:872:THR:HG22	2:P:892:TRP:HE1	1.51	0.75
2:Q:161:GLN:HE21	2:R:177:PHE:HE2	1.32	0.75
2:Q:414:PRO:HG2	2:Q:491:GLN:NE2	2.02	0.75
2:Q:858:ILE:HD12	2:Q:915:THR:HG22	1.66	0.75
2:R:768:GLN:O	2:R:773:LYS:NZ	2.19	0.75
2:M:299:LEU:HD12	2:M:300:LYS:N	2.02	0.75
2:M:607:SER:HB3	2:M:625:LEU:HD21	1.69	0.75
2:N:105:LYS:HG3	2:N:211:LEU:CD2	2.16	0.75
2:N:259:GLN:HA	2:N:262:ARG:HG2	1.67	0.75
2:N:332:THR:HB	2:N:342:ILE:HD13	1.69	0.75
2:O:329:LYS:NZ	2:O:341:ALA:O	2.17	0.75
2:P:446:LEU:HD23	2:P:500:MET:HE2	1.69	0.75
2:Q:261:ILE:CB	2:Q:264:LYS:HE3	2.16	0.75
2:Q:390:LYS:NZ	2:Q:413:VAL:HA	2.00	0.75
2:Q:443:MET:SD	2:Q:496:LYS:HE3	2.26	0.75
2:R:570:PHE:N	2:R:573:MET:O	2.19	0.75
2:R:866:LYS:HB3	2:R:870:LYS:HZ1	1.52	0.75
2:S:152:GLN:HA	2:S:155:ASN:ND2	2.02	0.75
2:M:192:GLY:HA2	2:S:131:LYS:HD3	1.69	0.75
2:M:434:LEU:HD21	2:M:452:THR:HB	1.67	0.75
2:O:331:LYS:HA	2:O:336:MET:SD	2.27	0.75
2:P:381:GLN:NE2	2:Q:305:GLN:OE1	2.18	0.75
2:P:576:LEU:CD2	2:P:591:PHE:HB3	2.16	0.75
2:Q:462:THR:HB	2:Q:465:TYR:CD1	2.22	0.75
2:R:149:GLN:NE2	2:R:209:GLU:OE2	2.15	0.75
2:R:602:ALA:HB1	2:R:650:ILE:HD13	1.69	0.75
2:S:379:LEU:HD12	2:S:380:MET:N	2.01	0.75
1:K:227:LEU:O	1:K:227:LEU:HD12	1.87	0.75
2:M:74:VAL:HB	2:M:251:THR:HG22	1.68	0.75
2:M:319:GLU:O	2:M:345:ARG:NH2	2.20	0.75
2:M:415:ASN:HA	2:M:418:ARG:CD	2.17	0.75
2:M:466:LEU:CD1	2:M:479:SER:HA	2.17	0.75
2:M:596:GLU:O	2:M:601:LYS:HD2	1.87	0.75
2:M:743:PHE:CE1	2:S:654:THR:HG21	2.22	0.75
2:M:803:GLY:O	2:M:807:ARG:NH1	2.19	0.75
2:N:256:LEU:HA	2:N:259:GLN:OE1	1.87	0.75
2:N:561:SER:OG	2:N:562:PRO:HD3	1.87	0.75
2:N:858:ILE:HD12	2:N:915:THR:CA	2.17	0.75
2:O:747:ASN:ND2	2:O:811:VAL:HG21	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:749:ALA:O	2:O:753:LYS:HG2	1.87	0.75
2:P:261:ILE:HG22	2:P:265:GLN:OE1	1.87	0.75
2:Q:136:LYS:CD	2:Q:211:LEU:HD13	2.17	0.75
2:Q:855:ILE:HD12	2:Q:886:LEU:CD1	2.17	0.75
2:S:864:SER:O	2:S:868:LEU:N	2.19	0.75
1:G:81:ILE:HG23	1:G:132:LEU:HD21	1.68	0.74
1:I:606:VAL:HG12	1:I:610:ARG:HH12	1.50	0.74
2:M:120:PRO:HG2	2:M:123:VAL:H	1.52	0.74
2:M:198:GLU:O	2:M:201:GLU:HG3	1.86	0.74
2:N:421:LEU:HB3	2:N:481:TYR:HD1	1.50	0.74
2:N:852:HIS:HA	2:N:855:ILE:CD1	2.16	0.74
2:O:336:MET:HE1	2:O:342:ILE:HG13	1.67	0.74
2:O:497:PHE:O	2:O:501:LEU:HD23	1.86	0.74
2:O:737:VAL:HG22	2:O:789:GLU:HB2	1.68	0.74
2:P:596:GLU:HG2	2:P:604:MET:HE1	1.69	0.74
2:P:612:ALA:HA	2:P:616:LEU:CD1	2.16	0.74
2:Q:153:TRP:HB2	2:Q:206:ARG:NH2	2.01	0.74
2:S:49:ILE:CD1	2:S:102:VAL:HA	2.17	0.74
2:S:173:LYS:HZ2	2:S:175:GLU:HG3	0.93	0.74
1:L:21:ASP:OD2	1:L:235:GLN:NE2	2.20	0.74
2:M:526:GLU:O	2:M:529:GLU:HG3	1.87	0.74
2:O:116:PRO:HB2	2:O:119:GLU:CG	2.17	0.74
2:O:195:ASP:HB3	2:O:198:GLU:HG3	1.69	0.74
2:O:232:ASP:HA	2:O:235:GLU:OE2	1.87	0.74
2:O:467:ARG:HH11	2:O:469:GLN:HA	1.52	0.74
2:O:589:LYS:O	2:O:920:SER:HA	1.87	0.74
2:P:105:LYS:HG3	2:P:213:CYS:HB3	1.69	0.74
2:P:161:GLN:HG2	2:Q:177:PHE:HD2	1.52	0.74
2:P:771:ALA:CA	2:P:774:ILE:HD12	2.15	0.74
2:P:877:LEU:O	2:P:880:GLU:HG3	1.86	0.74
2:P:890:GLU:HA	2:P:893:ASP:OD2	1.87	0.74
2:Q:375:PRO:HB2	2:Q:378:LEU:HD13	1.68	0.74
2:Q:744:ASN:ND2	2:Q:809:ASN:HB3	2.02	0.74
2:Q:858:ILE:O	2:Q:918:ASN:HB2	1.88	0.74
2:R:443:MET:CE	2:R:496:LYS:HD3	2.16	0.74
1:E:607:PHE:O	1:E:610:ARG:NH1	2.19	0.74
2:N:40:GLN:O	2:N:43:GLU:HG2	1.87	0.74
2:N:779:VAL:HG13	2:N:851:LEU:HD22	1.68	0.74
2:O:105:LYS:HG2	2:O:213:CYS:CB	2.17	0.74
2:O:385:ASP:O	2:O:389:LYS:HG2	1.88	0.74
2:O:447:CYS:SG	2:O:542:GLY:N	2.60	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:107:LEU:HD23	2:Q:128:ARG:HH21	1.52	0.74
2:Q:758:ARG:HG3	2:Q:929:LYS:O	1.88	0.74
2:R:35:LYS:O	2:R:38:ARG:HG3	1.87	0.74
2:R:279:GLU:HG3	2:R:282:ARG:NH2	2.02	0.74
2:R:337:GLN:HE22	2:R:339:ILE:HD12	1.52	0.74
2:R:511:PHE:HB2	2:R:535:TYR:CZ	2.22	0.74
2:R:538:TYR:CE2	2:R:553:ARG:HB3	2.21	0.74
2:S:234:LEU:HB3	2:S:238:ARG:HH22	1.52	0.74
1:I:354:GLU:OE2	1:I:527:ARG:NH2	2.19	0.74
1:K:599:SER:O	1:K:602:THR:OG1	2.05	0.74
1:L:334:TYR:CE2	1:L:373:VAL:HG12	2.23	0.74
2:M:195:ASP:O	2:M:199:ILE:HD12	1.87	0.74
2:N:173:LYS:HD3	2:N:175:GLU:HB2	1.69	0.74
2:N:217:LEU:HD12	2:N:247:VAL:O	1.88	0.74
2:O:178:SER:HA	2:O:181:LEU:HD21	1.69	0.74
2:P:152:GLN:HA	2:P:155:ASN:ND2	2.02	0.74
2:Q:135:ASP:HA	2:Q:138:LYS:HZ2	1.52	0.74
2:Q:314:LEU:HA	2:Q:372:LEU:CD2	2.17	0.74
2:R:261:ILE:CD1	2:R:294:GLU:HG2	2.18	0.74
2:R:279:GLU:O	2:R:283:LEU:HD23	1.88	0.74
2:R:426:LEU:HA	2:R:429:ILE:HG22	1.69	0.74
2:R:819:LYS:O	2:R:823:ILE:HG12	1.87	0.74
1:A:527:ARG:HG2	1:A:702:ALA:HB3	1.69	0.74
1:C:641:ARG:HD3	1:C:642:GLU:OE1	1.86	0.74
2:M:462:THR:HB	2:M:465:TYR:CD2	2.22	0.74
2:N:607:SER:OG	2:N:620:CYS:SG	2.46	0.74
2:N:810:PRO:CG	2:N:816:GLU:HB2	2.15	0.74
2:N:833:LYS:HE2	2:N:837:ASN:HB2	1.70	0.74
2:N:856:PHE:HB3	2:N:861:ILE:HD11	1.67	0.74
2:O:243:SER:CB	2:O:246:LEU:HD13	2.16	0.74
2:O:293:LEU:O	2:O:296:GLN:NE2	2.20	0.74
2:O:612:ALA:HB2	2:O:654:THR:CG2	2.17	0.74
2:O:914:ILE:HG21	2:O:917:LEU:HB3	1.69	0.74
2:O:933:ALA:C	2:O:934:ARG:HD3	2.07	0.74
2:Q:748:VAL:HG12	2:Q:811:VAL:HA	1.67	0.74
2:R:173:LYS:HZ1	2:R:175:GLU:CD	1.90	0.74
2:R:196:LEU:HB3	2:R:240:PHE:HZ	1.52	0.74
2:R:337:GLN:NE2	2:R:339:ILE:HB	2.01	0.74
2:S:750:ASP:HA	2:S:753:LYS:HZ3	1.52	0.74
1:E:20:LEU:O	1:E:290:ARG:NH2	2.20	0.74
1:H:606:VAL:HG22	1:H:652:PRO:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:238:ARG:NH2	2:N:297:TYR:OH	2.21	0.74
2:N:329:LYS:HD2	2:N:341:ALA:O	1.88	0.74
2:N:530:GLN:NE2	2:O:525:ARG:HD2	2.03	0.74
2:N:772:ALA:HA	2:N:917:LEU:CD2	2.17	0.74
2:O:159:GLN:O	2:O:162:ARG:HG2	1.88	0.74
2:O:382:VAL:HG13	2:O:383:LEU:CD2	2.17	0.74
2:O:740:ARG:HH22	2:O:807:ARG:HB3	1.51	0.74
2:P:149:GLN:O	2:P:152:GLN:NE2	2.20	0.74
2:P:602:ALA:HB1	2:P:650:ILE:HD13	1.70	0.74
2:P:765:MET:SD	2:P:767:SER:N	2.59	0.74
2:Q:819:LYS:O	2:Q:823:ILE:HG12	1.87	0.74
2:R:352:VAL:HB	2:R:356:LEU:HD12	1.70	0.74
2:S:182:LYS:O	2:S:183:LEU:HD22	1.87	0.74
2:S:728:ARG:HG2	2:S:796:VAL:HG13	1.70	0.74
2:S:783:LEU:HG	2:S:842:PHE:CE1	2.23	0.74
2:M:177:PHE:CE2	2:S:161:GLN:HB3	2.23	0.74
2:M:493:SER:OG	2:M:496:LYS:HB2	1.88	0.74
2:M:547:ALA:HB1	2:M:627:GLY:HA2	1.70	0.74
2:M:755:ARG:HD3	2:M:757:TYR:HE2	1.53	0.74
2:N:425:MET:CG	2:N:428:ASN:HB2	2.17	0.74
2:O:134:SER:O	2:O:138:LYS:HB2	1.87	0.74
2:O:218:ILE:CG2	2:O:248:VAL:HG22	2.17	0.74
2:O:543:ARG:HB3	2:P:469:GLN:NE2	2.03	0.74
2:O:850:ILE:O	2:O:853:PRO:HD2	1.88	0.74
2:P:121:ILE:HG12	2:P:233:VAL:HG22	1.68	0.74
2:P:313:MET:HA	2:P:316:LEU:CG	2.16	0.74
2:P:551:ALA:HA	2:P:623:PHE:HE2	1.50	0.74
2:P:612:ALA:HB3	2:P:656:ILE:HD13	1.69	0.74
2:P:872:THR:HA	2:P:875:ASN:HD22	1.52	0.74
2:Q:495:SER:HB3	2:Q:634:ALA:CB	2.18	0.74
2:Q:559:ALA:HA	2:Q:570:PHE:CE2	2.20	0.74
2:Q:852:HIS:HA	2:Q:855:ILE:CD1	2.17	0.74
2:R:831:ASP:HB3	2:R:833:LYS:NZ	2.02	0.74
2:S:135:ASP:HA	2:S:138:LYS:CG	2.14	0.74
2:S:571:LEU:HD11	2:S:746:ASN:OD1	1.86	0.74
2:S:593:ILE:HD11	2:S:601:LYS:O	1.88	0.74
1:A:788:GLU:OE1	1:A:791:ARG:NH1	2.21	0.74
1:B:3:ARG:NH2	1:B:40:GLN:OE1	2.21	0.74
1:F:55:TYR:OH	1:G:673:VAL:N	2.20	0.74
1:G:556:ARG:NH2	1:G:583:GLU:OE2	2.21	0.74
2:M:756:LEU:HB3	2:M:927:TYR:CE1	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:105:LYS:NZ	2:N:213:CYS:HB3	2.03	0.74
2:N:218:ILE:HG21	2:N:246:LEU:HD21	1.69	0.74
2:N:439:HIS:CE1	2:O:315:GLN:HB3	2.23	0.74
2:O:153:TRP:HB2	2:O:206:ARG:HH21	1.49	0.74
2:O:178:SER:HA	2:O:181:LEU:CD2	2.18	0.74
2:O:748:VAL:HG12	2:O:811:VAL:HG13	1.69	0.74
2:Q:49:ILE:HD12	2:Q:214:LYS:CD	2.12	0.74
2:R:243:SER:HB3	2:R:246:LEU:CD2	2.17	0.74
2:R:415:ASN:O	2:R:418:ARG:HG2	1.87	0.74
2:R:818:GLU:OE2	2:R:819:LYS:HD2	1.87	0.74
2:S:120:PRO:HG2	2:S:123:VAL:CG2	2.17	0.74
2:S:415:ASN:OD1	2:S:416:LEU:N	2.20	0.74
2:S:720:VAL:CG2	2:S:844:LEU:HD22	2.17	0.74
2:S:734:ILE:HA	2:S:737:VAL:HG22	1.69	0.74
1:A:356:ARG:NH2	1:A:467:ASP:OD2	2.20	0.74
1:B:431:GLU:OE2	1:B:435:HIS:N	2.20	0.74
1:D:25:LEU:O	1:D:28:ARG:N	2.20	0.74
1:D:333:SER:O	1:D:336:SER:OG	2.05	0.74
1:D:440:LYS:HA	1:D:443:LYS:HZ2	1.53	0.74
1:H:715:GLN:O	1:H:717:ARG:NH1	2.21	0.74
1:J:745:LEU:HD23	1:J:786:VAL:HG11	1.70	0.74
2:M:40:GLN:HA	2:M:43:GLU:OE1	1.88	0.74
2:M:116:PRO:HG2	2:M:119:GLU:CD	2.08	0.74
2:M:156:HIS:HB3	2:M:203:LEU:HD23	1.69	0.74
2:M:575:GLN:HA	2:M:619:PHE:HB3	1.70	0.74
2:O:120:PRO:HG2	2:O:123:VAL:HG23	1.70	0.74
2:O:543:ARG:HB3	2:P:469:GLN:HE22	1.53	0.74
2:P:208:CYS:SG	2:P:245:LYS:NZ	2.60	0.74
2:Q:732:LEU:HD11	2:Q:736:LYS:HZ1	1.53	0.74
1:E:537:THR:HG22	1:E:726:ARG:NH1	2.02	0.74
1:F:649:MET:O	1:F:653:LEU:HG	1.85	0.74
2:M:305:GLN:OE1	2:M:305:GLN:N	2.20	0.74
2:M:427:SER:HB3	2:N:295:GLN:HG2	1.69	0.74
2:N:159:GLN:HA	2:N:162:ARG:CZ	2.18	0.74
2:N:808:LEU:HD22	2:N:816:GLU:HG2	1.68	0.74
2:O:575:GLN:HG2	2:O:923:VAL:CG1	2.17	0.74
2:P:122:LEU:O	2:P:126:THR:HG23	1.88	0.74
2:Q:134:SER:HA	2:Q:137:LEU:CG	2.17	0.74
2:Q:426:LEU:HA	2:Q:429:ILE:HG22	1.70	0.74
2:R:122:LEU:O	2:R:126:THR:HG23	1.88	0.74
2:R:235:GLU:HA	2:R:238:ARG:CG	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:552:ASN:OD1	2:S:553:ARG:HD2	1.87	0.74
2:M:612:ALA:CB	2:M:654:THR:HG22	2.11	0.73
2:M:787:LEU:HD11	2:M:824:ILE:CD1	2.18	0.73
2:N:235:GLU:HA	2:N:239:LYS:HZ3	1.53	0.73
2:N:745:LEU:HA	2:N:748:VAL:HG22	1.69	0.73
2:O:367:TYR:HE2	2:O:467:ARG:HG2	1.53	0.73
2:O:929:LYS:HD2	2:O:930:ASP:O	1.88	0.73
2:P:69:ARG:HG2	2:P:300:LYS:O	1.88	0.73
2:P:815:ASP:O	2:P:818:GLU:HG3	1.86	0.73
2:Q:231:TRP:N	2:Q:260:LEU:HD11	2.03	0.73
2:R:823:ILE:O	2:R:826:GLU:HG2	1.88	0.73
2:S:89:VAL:O	2:S:92:SER:OG	2.05	0.73
2:S:332:THR:HG23	2:S:387:TYR:CB	2.17	0.73
2:S:443:MET:CE	2:S:496:LYS:HB3	2.17	0.73
2:O:69:ARG:HH21	2:O:244:ARG:HH22	1.35	0.73
2:O:259:GLN:OE1	2:O:262:ARG:NH2	2.21	0.73
2:O:298:LEU:HA	2:O:301:LEU:HG	1.70	0.73
2:O:486:VAL:HA	2:O:500:MET:HE1	1.70	0.73
2:R:105:LYS:O	2:R:216:ILE:HD12	1.88	0.73
2:R:356:LEU:CD1	2:R:358:LEU:HD22	2.18	0.73
2:R:562:PRO:HG2	2:R:570:PHE:CE2	2.22	0.73
2:S:519:ALA:HA	2:S:527:LYS:NZ	2.03	0.73
1:E:296:LEU:O	1:E:300:ASN:ND2	2.20	0.73
1:G:551:MET:SD	1:G:552:THR:N	2.61	0.73
2:O:261:ILE:CG2	2:O:294:GLU:HG2	2.19	0.73
2:O:415:ASN:HA	2:O:418:ARG:HD3	1.69	0.73
2:P:137:LEU:HD21	2:P:150:LYS:CE	2.18	0.73
2:P:852:HIS:HA	2:P:855:ILE:HG13	1.70	0.73
2:Q:118:HIS:O	2:R:172:TYR:HB2	1.88	0.73
2:Q:131:LYS:HD2	2:R:192:GLY:N	2.02	0.73
2:Q:465:TYR:HB3	2:Q:467:ARG:NE	2.03	0.73
2:Q:638:GLU:O	2:Q:642:ILE:HG12	1.88	0.73
2:R:205:LYS:HA	2:R:245:LYS:NZ	2.04	0.73
2:R:352:VAL:O	2:R:356:LEU:N	2.19	0.73
2:R:425:MET:SD	2:R:428:ASN:ND2	2.54	0.73
2:R:443:MET:CE	2:R:496:LYS:HB3	2.18	0.73
2:R:568:GLY:O	2:R:575:GLN:N	2.21	0.73
2:R:720:VAL:HG12	2:R:844:LEU:CD2	2.12	0.73
2:S:869:ASN:OD1	2:S:870:LYS:N	2.21	0.73
1:C:657:LYS:O	1:C:661:THR:OG1	2.05	0.73
1:K:756:ASP:O	1:K:759:SER:OG	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:216:ILE:HB	2:M:246:LEU:CD2	2.18	0.73
2:M:415:ASN:O	2:M:418:ARG:HD3	1.87	0.73
2:M:477:ASN:O	2:M:480:ILE:HG22	1.88	0.73
2:M:578:ARG:HH12	2:M:616:LEU:HB3	1.53	0.73
2:O:412:SER:HB3	2:O:415:ASN:ND2	2.03	0.73
2:O:872:THR:HG22	2:O:892:TRP:HE1	1.52	0.73
2:P:118:HIS:HB3	2:Q:172:TYR:HB2	1.70	0.73
2:P:282:ARG:O	2:P:286:ARG:HG3	1.89	0.73
2:Q:235:GLU:O	2:Q:238:ARG:HG2	1.88	0.73
2:Q:455:LYS:O	2:Q:458:ARG:NH2	2.21	0.73
2:S:173:LYS:CD	2:S:175:GLU:H	2.00	0.73
2:S:243:SER:HB3	2:S:246:LEU:HD12	1.70	0.73
2:S:261:ILE:HA	2:S:264:LYS:HE3	1.67	0.73
2:S:332:THR:HG23	2:S:387:TYR:CG	2.23	0.73
2:S:415:ASN:O	2:S:418:ARG:HG3	1.88	0.73
2:S:452:THR:HA	2:S:455:LYS:HZ2	1.54	0.73
1:B:213:ASN:ND2	1:B:240:LEU:O	2.20	0.73
1:F:202:ARG:HG2	1:F:203:ILE:HD12	1.70	0.73
1:F:482:PRO:O	1:F:486:VAL:HG23	1.89	0.73
1:J:213:ASN:ND2	1:J:240:LEU:O	2.22	0.73
2:N:42:VAL:HG22	2:N:93:LEU:HD21	1.71	0.73
2:N:254:LEU:HD23	2:N:257:TYR:HD2	1.51	0.73
2:O:389:LYS:HG3	2:O:416:LEU:HD11	1.70	0.73
2:O:415:ASN:OD1	2:O:416:LEU:N	2.21	0.73
2:P:760:ALA:HB1	2:P:769:SER:N	2.01	0.73
2:Q:434:LEU:HD13	2:Q:449:ASP:OD1	1.89	0.73
2:R:443:MET:HB3	2:R:500:MET:CE	2.19	0.73
2:S:446:LEU:HD21	2:S:486:VAL:HA	1.71	0.73
2:S:817:PHE:CE2	2:S:821:ILE:HD11	2.24	0.73
1:F:718:ASN:OD1	1:F:720:SER:OG	2.03	0.73
1:I:55:TYR:O	1:I:59:GLN:NE2	2.22	0.73
2:M:363:ASP:O	2:M:366:MET:HG3	1.87	0.73
2:M:612:ALA:HB1	2:M:656:ILE:HD13	1.71	0.73
2:M:856:PHE:O	2:M:913:THR:OG1	2.06	0.73
2:N:256:LEU:HA	2:N:259:GLN:NE2	2.04	0.73
2:N:418:ARG:CD	2:N:485:GLN:HG3	2.18	0.73
2:O:154:GLN:NE2	2:O:155:ASN:OD1	2.22	0.73
2:O:272:THR:HA	2:O:275:GLU:CD	2.09	0.73
2:O:455:LYS:HD2	2:O:532:ILE:HD12	1.71	0.73
2:O:733:LEU:HD11	2:O:790:GLU:HA	1.70	0.73
2:O:854:PHE:CE1	2:O:914:ILE:HD11	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:858:ILE:O	2:O:918:ASN:HB2	1.88	0.73
2:P:270:SER:O	2:P:274:LEU:HG	1.89	0.73
2:P:506:GLY:HA3	2:P:550:TRP:CH2	2.23	0.73
2:Q:562:PRO:HG2	2:Q:570:PHE:CZ	2.23	0.73
2:Q:567:ILE:HD12	2:Q:753:LYS:HB3	1.70	0.73
2:Q:639:ARG:O	2:Q:642:ILE:HB	1.87	0.73
2:R:314:LEU:HD12	2:R:372:LEU:CB	2.19	0.73
2:R:353:ARG:O	2:R:357:ASN:N	2.22	0.73
2:R:524:ASP:HB3	2:R:527:LYS:HG2	1.68	0.73
2:S:40:GLN:HA	2:S:43:GLU:OE1	1.89	0.73
1:A:65:MET:CE	1:A:70:VAL:HG13	2.18	0.73
1:E:595:GLU:O	1:H:650:LYS:NZ	2.17	0.73
1:I:20:LEU:O	1:I:290:ARG:NH1	2.22	0.73
2:M:613:SER:HB2	2:M:657:VAL:HG23	1.71	0.73
2:N:263:GLY:O	2:N:267:GLU:HG3	1.89	0.73
2:N:296:GLN:HA	2:N:299:LEU:CD2	2.17	0.73
2:N:330:VAL:HG13	2:N:344:VAL:CG1	2.15	0.73
2:N:355:GLY:HA2	2:N:413:VAL:HG12	1.70	0.73
2:P:122:LEU:HD12	2:P:123:VAL:N	2.03	0.73
2:Q:123:VAL:HG13	2:R:177:PHE:CD1	2.23	0.73
2:Q:273:LEU:HA	2:Q:276:GLN:NE2	2.04	0.73
2:R:45:ILE:HG13	2:R:72:PHE:CD1	2.23	0.73
2:R:112:PRO:HG2	2:R:223:ILE:HG22	1.71	0.73
1:A:69:PRO:CB	1:A:292:LEU:HD22	2.19	0.73
1:C:360:LYS:NZ	1:C:369:LEU:HD22	2.03	0.73
2:N:218:ILE:CD1	2:N:248:VAL:HG22	2.19	0.73
2:N:330:VAL:HG22	2:N:343:ASP:O	1.89	0.73
2:N:359:ARG:NH1	2:N:800:GLU:OE2	2.22	0.73
2:N:804:GLU:HA	2:N:807:ARG:HH22	1.53	0.73
2:O:117:ARG:HD2	2:O:118:HIS:N	2.04	0.73
2:O:561:SER:OG	2:O:562:PRO:HD3	1.89	0.73
2:P:40:GLN:HA	2:P:43:GLU:OE1	1.89	0.73
2:P:177:PHE:CE2	2:P:181:LEU:HD11	2.24	0.73
2:Q:38:ARG:NH2	2:Q:39:ASP:OD1	2.21	0.73
2:Q:163:GLY:O	2:Q:166:LEU:HG	1.89	0.73
2:Q:386:PHE:HA	2:Q:389:LYS:CE	2.15	0.73
2:R:327:GLU:N	2:R:327:GLU:OE1	2.22	0.73
2:S:593:ILE:HG13	2:S:601:LYS:HG3	1.70	0.73
2:S:783:LEU:HG	2:S:842:PHE:HE1	1.53	0.73
1:E:429:ASN:OD1	1:E:430:GLY:N	2.21	0.73
1:F:741:MET:SD	1:F:743:ILE:HD11	2.27	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:44:LEU:HD11	1:J:48:VAL:HB	1.71	0.73
1:K:282:PHE:CD2	2:S:148:LYS:HD3	2.22	0.73
2:M:117:ARG:HG2	2:M:118:HIS:CG	2.23	0.73
2:M:711:THR:O	2:M:714:GLU:HG3	1.89	0.73
2:N:453:TYR:OH	2:N:475:LEU:O	2.05	0.73
2:N:613:SER:HA	2:N:657:VAL:HG23	1.71	0.73
2:N:833:LYS:NZ	2:N:838:THR:HG22	2.03	0.73
2:P:207:ALA:HA	2:P:210:ILE:HD11	1.71	0.73
2:Q:452:THR:HA	2:Q:455:LYS:HZ2	1.49	0.73
2:R:300:LYS:HG3	2:R:301:LEU:CD2	2.19	0.73
2:R:536:VAL:HA	2:R:539:MET:SD	2.28	0.73
2:S:258:SER:O	2:S:262:ARG:HG3	1.88	0.73
2:S:332:THR:H	2:S:336:MET:CE	2.02	0.73
2:S:570:PHE:HB2	2:S:573:MET:CG	2.19	0.73
2:S:647:ASN:HB2	2:S:648:LYS:NZ	2.04	0.73
2:S:720:VAL:HG22	2:S:844:LEU:HD22	1.71	0.73
1:A:583:GLU:OE1	1:A:679:TYR:OH	2.06	0.73
1:L:431:GLU:OE2	1:L:435:HIS:N	2.22	0.73
2:M:120:PRO:HG2	2:M:123:VAL:HG23	1.70	0.73
2:M:231:TRP:HA	2:M:234:LEU:HD13	1.71	0.73
2:M:231:TRP:NE1	2:M:264:LYS:HD2	2.04	0.73
2:M:253:ASP:O	2:M:256:LEU:HG	1.88	0.73
2:M:304:VAL:HA	2:M:307:ARG:CZ	2.19	0.73
2:M:375:PRO:HD2	2:M:378:LEU:HD22	1.71	0.73
2:N:226:GLN:HE22	2:N:228:ASP:CB	2.02	0.73
2:N:266:TYR:OH	2:N:290:VAL:HG11	1.89	0.73
2:N:298:LEU:HA	2:N:301:LEU:HD12	1.70	0.73
2:N:468:PRO:HB3	2:N:476:ARG:O	1.89	0.73
2:O:298:LEU:HA	2:O:301:LEU:HD21	1.71	0.73
2:P:153:TRP:O	2:P:157:LEU:HD13	1.89	0.73
2:P:262:ARG:N	2:P:294:GLU:OE2	2.22	0.73
2:P:415:ASN:OD1	2:P:416:LEU:N	2.21	0.73
2:Q:166:LEU:HD11	2:Q:194:GLN:HG2	1.70	0.73
2:Q:495:SER:OG	2:Q:630:ALA:O	2.07	0.73
1:D:599:SER:O	1:D:602:THR:OG1	2.07	0.72
2:M:255:ARG:NH2	2:S:436:TYR:HB3	2.03	0.72
2:M:833:LYS:HE2	2:M:838:THR:HB	1.69	0.72
2:M:873:SER:HA	2:M:876:LYS:HD3	1.69	0.72
2:N:716:TRP:CE3	2:N:717:LEU:HD12	2.23	0.72
2:N:816:GLU:HB3	2:N:820:LYS:NZ	2.03	0.72
2:O:715:GLN:O	2:O:718:LYS:HG2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:430:TYR:CZ	2:Q:255:ARG:HG3	2.24	0.72
2:Q:758:ARG:HB2	2:Q:930:ASP:OD1	1.89	0.72
2:Q:848:CYS:HB3	2:Q:851:LEU:HD12	1.71	0.72
1:D:715:GLN:O	1:D:717:ARG:NH1	2.21	0.72
1:G:715:GLN:O	1:G:717:ARG:NH1	2.23	0.72
1:H:511:ARG:NH1	1:H:515:ASP:OD2	2.22	0.72
1:H:654:LYS:O	1:H:658:GLN:NE2	2.22	0.72
1:I:236:ASN:N	1:I:239:GLN:OE1	2.22	0.72
1:L:6:LEU:O	1:L:300:ASN:ND2	2.22	0.72
2:M:304:VAL:HG12	2:M:307:ARG:NH1	2.04	0.72
2:O:728:ARG:HE	2:O:796:VAL:HG12	1.54	0.72
2:P:121:ILE:HG21	2:P:220:PHE:HE1	1.52	0.72
2:Q:459:ASP:OD1	2:Q:461:ASN:ND2	2.22	0.72
2:S:515:VAL:HG21	2:S:535:TYR:CE1	2.24	0.72
2:S:568:GLY:HA2	2:S:570:PHE:HE1	1.54	0.72
2:S:657:VAL:HG13	2:S:658:PRO:HD2	1.71	0.72
1:D:290:ARG:HA	1:D:293:TRP:HE3	1.53	0.72
2:M:440:ARG:NH2	2:N:473:GLU:OE1	2.17	0.72
2:N:120:PRO:HG2	2:N:123:VAL:CG2	2.17	0.72
2:N:299:LEU:HD12	2:N:300:LYS:N	2.03	0.72
2:N:425:MET:HE1	2:N:478:CYS:N	2.04	0.72
2:O:103:ASN:OD1	2:O:105:LYS:HE3	1.89	0.72
2:O:204:VAL:HG21	2:O:246:LEU:HD11	1.70	0.72
2:Q:49:ILE:HD11	2:Q:102:VAL:HG13	1.68	0.72
2:R:429:ILE:HD11	2:R:434:LEU:HD12	1.70	0.72
2:R:890:GLU:HA	2:R:893:ASP:OD2	1.89	0.72
2:S:549:HIS:HA	2:S:552:ASN:ND2	2.04	0.72
1:E:141:ASP:OD2	1:E:145:ARG:NE	2.21	0.72
1:E:271:CYS:O	1:E:274:THR:OG1	2.08	0.72
2:M:745:LEU:HA	2:M:748:VAL:HG22	1.71	0.72
2:N:110:ILE:HG22	2:N:219:THR:O	1.89	0.72
2:N:826:GLU:CB	2:N:829:LYS:HE3	2.19	0.72
2:O:758:ARG:HG2	2:O:927:TYR:O	1.90	0.72
2:P:75:ASP:HB3	2:P:307:ARG:NH2	2.04	0.72
2:Q:74:VAL:HG22	2:Q:308:ILE:CG2	2.18	0.72
2:Q:110:ILE:HG13	2:Q:128:ARG:CZ	2.20	0.72
2:Q:232:ASP:HA	2:Q:235:GLU:OE2	1.89	0.72
2:Q:536:VAL:HG13	2:Q:541:VAL:CG1	2.19	0.72
2:R:243:SER:HB3	2:R:246:LEU:HD23	1.71	0.72
2:R:300:LYS:HG3	2:R:301:LEU:HD22	1.71	0.72
2:S:723:ILE:CG2	2:S:844:LEU:HD11	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:472:GLU:OE2	1:K:501:GLU:N	2.21	0.72
2:M:585:PRO:HG3	2:M:758:ARG:NE	2.05	0.72
2:M:723:ILE:HD13	2:M:836:LYS:HE3	1.70	0.72
2:N:313:MET:HE3	2:N:328:ILE:HG13	1.71	0.72
2:O:206:ARG:O	2:O:209:GLU:HG3	1.89	0.72
2:Q:46:ARG:HE	2:Q:93:LEU:HD11	1.55	0.72
2:Q:136:LYS:HD3	2:Q:211:LEU:HA	1.70	0.72
2:Q:379:LEU:HA	2:Q:382:VAL:HG12	1.71	0.72
2:Q:625:LEU:O	2:Q:629:ILE:HG12	1.89	0.72
2:R:103:ASN:H	2:R:214:LYS:CE	2.02	0.72
2:R:511:PHE:CZ	2:R:532:ILE:HG22	2.24	0.72
2:S:159:GLN:O	2:S:162:ARG:HD3	1.88	0.72
2:S:479:SER:HA	2:S:482:LEU:CD2	2.20	0.72
2:S:492:GLY:HA2	2:S:727:ILE:HG22	1.70	0.72
2:M:304:VAL:HG22	2:S:381:GLN:NE2	2.05	0.72
2:M:440:ARG:NH1	2:N:373:LYS:HB3	2.02	0.72
2:M:575:GLN:HA	2:M:619:PHE:CB	2.18	0.72
2:M:578:ARG:NE	2:M:579:LYS:HE3	2.05	0.72
2:M:657:VAL:HG13	2:M:658:PRO:HD2	1.72	0.72
2:P:262:ARG:NH1	2:P:290:VAL:HG12	2.04	0.72
2:P:452:THR:O	2:P:456:GLN:NE2	2.22	0.72
2:Q:110:ILE:N	2:Q:219:THR:O	2.22	0.72
2:Q:134:SER:HA	2:Q:137:LEU:HG	1.72	0.72
2:Q:225:THR:HG22	2:R:297:TYR:CD1	2.24	0.72
2:Q:460:PHE:HB3	2:Q:512:ASN:HB2	1.70	0.72
1:E:556:ARG:CZ	1:E:673:VAL:HG11	2.19	0.72
1:F:7:ASN:ND2	1:F:104:ARG:O	2.21	0.72
1:H:78:GLU:O	1:H:82:LYS:NZ	2.23	0.72
1:K:741:MET:SD	1:K:743:ILE:HD11	2.30	0.72
2:M:469:GLN:NE2	2:S:543:ARG:HD2	2.05	0.72
2:N:136:LYS:NZ	2:N:140:TYR:OH	2.16	0.72
2:N:512:ASN:O	2:N:516:THR:OG1	2.04	0.72
2:N:885:LYS:HE3	2:N:888:SER:HA	1.71	0.72
2:O:385:ASP:OD2	2:P:305:GLN:HB3	1.89	0.72
2:P:275:GLU:O	2:P:278:LYS:HE3	1.89	0.72
2:P:412:SER:OG	2:P:491:GLN:OE1	2.06	0.72
2:P:609:SER:HB2	2:P:619:PHE:HB2	1.70	0.72
2:Q:151:GLU:HA	2:Q:154:GLN:HG3	1.70	0.72
2:Q:363:ASP:OD1	2:Q:364:ALA:N	2.23	0.72
2:R:367:TYR:O	2:R:371:LEU:HG	1.89	0.72
2:R:468:PRO:HB3	2:R:476:ARG:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:599:LEU:HD21	2:S:849:PRO:HB2	1.71	0.72
1:A:518:ARG:NH1	1:A:608:GLU:OE1	2.23	0.72
1:A:659:TRP:O	1:A:669:ARG:NH1	2.22	0.72
1:I:215:ARG:NH2	1:I:268:SER:OG	2.23	0.72
2:M:495:SER:CB	2:M:634:ALA:HB2	2.19	0.72
2:N:330:VAL:CG1	2:N:344:VAL:HG12	2.18	0.72
2:P:443:MET:CG	2:P:496:LYS:HE3	2.20	0.72
2:Q:114:LYS:CE	2:R:239:LYS:HA	2.18	0.72
2:Q:799:ARG:HH21	2:Q:801:TYR:HE1	1.36	0.72
2:R:136:LYS:HG3	2:R:211:LEU:HD13	1.72	0.72
2:S:814:VAL:HG22	2:S:870:LYS:NZ	2.05	0.72
1:B:290:ARG:HA	1:B:293:TRP:HD1	1.53	0.72
1:C:215:ARG:NH2	1:C:295:TYR:OH	2.23	0.72
2:M:206:ARG:HE	2:M:210:ILE:HG13	1.55	0.72
2:M:441:PHE:O	2:M:445:SER:OG	2.07	0.72
2:N:73:PHE:HB2	2:N:302:PHE:CE1	2.24	0.72
2:N:468:PRO:HB3	2:N:480:ILE:HD11	1.72	0.72
2:O:198:GLU:HA	2:O:201:GLU:CD	2.10	0.72
2:P:120:PRO:HG2	2:P:123:VAL:CG2	2.19	0.72
2:P:625:LEU:O	2:P:629:ILE:HG12	1.88	0.72
2:Q:890:GLU:HA	2:Q:893:ASP:OD2	1.90	0.72
2:R:573:MET:HB3	2:R:621:SER:CB	2.19	0.72
2:R:733:LEU:HD11	2:R:789:GLU:HB3	1.72	0.72
2:S:234:LEU:HD23	2:S:237:ILE:HD12	1.71	0.72
1:A:150:GLU:OE2	1:A:152:HIS:N	2.23	0.72
2:M:271:LYS:O	2:M:275:GLU:HG3	1.90	0.72
2:M:466:LEU:HD11	2:M:482:LEU:CD1	2.20	0.72
2:M:890:GLU:HA	2:M:893:ASP:OD2	1.90	0.72
2:N:178:SER:HA	2:N:181:LEU:HG	1.70	0.72
2:N:511:PHE:HA	2:N:515:VAL:CG2	2.20	0.72
2:N:576:LEU:HD11	2:N:591:PHE:HB2	1.72	0.72
2:N:872:THR:HG22	2:N:892:TRP:HZ2	1.54	0.72
2:O:553:ARG:CZ	2:O:655:CYS:HB2	2.19	0.72
2:P:352:VAL:HG12	2:P:358:LEU:HD12	1.70	0.72
2:Q:43:GLU:O	2:Q:47:ASN:ND2	2.23	0.72
2:Q:133:VAL:HG12	2:Q:137:LEU:HD23	1.70	0.72
2:Q:336:MET:SD	2:Q:340:ASP:HB3	2.30	0.72
2:S:429:ILE:HG23	2:S:434:LEU:HD12	1.71	0.72
2:S:487:SER:O	2:S:491:GLN:HG3	1.89	0.72
1:A:418:LEU:HB2	1:A:463:ILE:HD13	1.71	0.71
1:E:212:CYS:SG	1:E:215:ARG:NH1	2.63	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:LEU:HD12	1:E:227:LEU:O	1.90	0.71
1:E:566:GLU:OE1	1:E:688:LEU:HD23	1.89	0.71
2:M:329:LYS:NZ	2:M:343:ASP:OD2	2.17	0.71
2:M:355:GLY:CA	2:M:414:PRO:HG3	2.20	0.71
2:M:440:ARG:NH1	2:N:373:LYS:HE2	2.05	0.71
2:M:612:ALA:CB	2:M:656:ILE:HD13	2.20	0.71
2:M:737:VAL:HG22	2:M:789:GLU:CB	2.19	0.71
2:N:823:ILE:HG23	2:N:827:LYS:NZ	2.05	0.71
2:O:305:GLN:N	2:O:305:GLN:OE1	2.22	0.71
2:Q:237:ILE:HA	2:Q:241:PHE:CD2	2.25	0.71
2:Q:282:ARG:HA	2:Q:285:GLU:HG3	1.71	0.71
2:Q:869:ASN:OD1	2:Q:870:LYS:N	2.23	0.71
2:R:877:LEU:O	2:R:880:GLU:HG3	1.90	0.71
1:A:366:MET:CE	1:A:448:ILE:HG21	2.19	0.71
1:C:420:PRO:HG2	1:C:466:VAL:HG12	1.71	0.71
2:N:494:LEU:HD13	2:N:720:VAL:CG1	2.20	0.71
2:N:497:PHE:CE2	2:N:501:LEU:HD11	2.25	0.71
2:N:760:ALA:HA	2:N:768:GLN:CG	2.18	0.71
2:N:784:HIS:HA	2:N:817:PHE:CE1	2.24	0.71
2:O:103:ASN:H	2:O:214:LYS:HD3	1.54	0.71
2:O:467:ARG:HH11	2:O:469:GLN:CA	2.03	0.71
2:P:422:TYR:O	2:P:426:LEU:HB2	1.90	0.71
2:Q:625:LEU:HD11	2:Q:850:ILE:HG22	1.71	0.71
2:S:256:LEU:HA	2:S:259:GLN:NE2	2.05	0.71
2:S:562:PRO:HG2	2:S:570:PHE:CE2	2.25	0.71
1:A:214:ILE:HD11	1:A:240:LEU:HD13	1.72	0.71
1:G:756:ASP:OD1	1:G:757:LEU:N	2.24	0.71
2:M:437:GLU:HG3	2:M:440:ARG:CG	2.21	0.71
2:O:319:GLU:O	2:O:320:LYS:HD3	1.91	0.71
2:P:536:VAL:HG23	2:P:541:VAL:HG12	1.72	0.71
2:S:218:ILE:HD11	2:S:248:VAL:CG2	2.17	0.71
2:S:359:ARG:HH22	2:S:797:SER:HG	1.34	0.71
2:S:495:SER:HB3	2:S:634:ALA:CB	2.19	0.71
1:I:431:GLU:OE2	1:I:435:HIS:N	2.23	0.71
1:K:507:ILE:HD11	1:K:680:LEU:CD2	2.19	0.71
2:M:49:ILE:CD1	2:M:104:ILE:HD11	2.20	0.71
2:M:205:LYS:HD3	2:M:209:GLU:OE2	1.90	0.71
2:N:235:GLU:O	2:N:239:LYS:HE2	1.90	0.71
2:N:580:SER:C	2:N:581:ARG:HD2	2.11	0.71
2:N:715:GLN:CA	2:N:718:LYS:HZ3	2.03	0.71
2:P:569:VAL:HG22	2:P:574:VAL:HG13	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:152:GLN:CG	2:Q:206:ARG:HD2	2.20	0.71
2:R:374:GLN:O	2:R:379:LEU:HD23	1.90	0.71
2:R:412:SER:O	2:R:416:LEU:HD23	1.90	0.71
2:R:524:ASP:OD1	2:R:525:ARG:N	2.24	0.71
2:S:801:TYR:HD1	2:S:827:LYS:HB3	1.55	0.71
1:E:100:THR:O	1:E:103:SER:OG	2.05	0.71
1:K:160:SER:OG	1:K:163:GLU:OE1	2.07	0.71
2:M:513:GLN:OE1	2:M:742:TYR:OH	2.01	0.71
2:N:178:SER:HA	2:N:181:LEU:CD2	2.20	0.71
2:O:266:TYR:OH	2:P:276:GLN:HB2	1.90	0.71
2:O:414:PRO:HD2	2:O:491:GLN:OE1	1.90	0.71
2:O:446:LEU:HD21	2:O:486:VAL:HG22	1.72	0.71
2:P:198:GLU:HA	2:P:201:GLU:CG	2.21	0.71
2:P:727:ILE:HD12	2:P:841:LEU:HD21	1.73	0.71
2:R:580:SER:HB3	2:R:590:LYS:CE	2.20	0.71
2:S:472:SER:O	2:S:476:ARG:HG3	1.90	0.71
2:S:773:LYS:HB2	2:S:860:GLY:HA2	1.71	0.71
2:S:825:GLY:O	2:S:829:LYS:HG2	1.89	0.71
1:D:227:LEU:HD12	1:D:227:LEU:O	1.89	0.71
1:G:429:ASN:OD1	1:G:430:GLY:N	2.24	0.71
2:M:440:ARG:CZ	2:N:373:LYS:HE2	2.20	0.71
2:N:427:SER:HB3	2:O:295:GLN:HG2	1.71	0.71
2:N:553:ARG:O	2:N:557:VAL:HG23	1.90	0.71
2:N:740:ARG:NH1	2:N:788:VAL:HG11	2.06	0.71
2:P:529:GLU:OE2	2:P:530:GLN:NE2	2.24	0.71
2:Q:764:ARG:O	2:Q:863:CYS:N	2.24	0.71
1:I:151:THR:OG1	1:I:745:LEU:O	2.07	0.71
1:I:356:ARG:HG2	1:I:419:VAL:HG13	1.73	0.71
1:I:581:ALA:O	1:I:585:VAL:HG23	1.91	0.71
1:K:136:HIS:HB3	1:K:139:VAL:HG22	1.73	0.71
2:M:293:LEU:O	2:M:296:GLN:HG2	1.91	0.71
2:M:585:PRO:HG3	2:M:758:ARG:CZ	2.20	0.71
2:N:826:GLU:HB2	2:N:829:LYS:HE3	1.73	0.71
2:O:155:ASN:O	2:O:159:GLN:HG2	1.90	0.71
2:O:227:PHE:CD2	2:O:260:LEU:HD21	2.22	0.71
2:O:493:SER:OG	2:O:496:LYS:NZ	2.16	0.71
2:O:758:ARG:HB2	2:O:930:ASP:OD1	1.91	0.71
2:O:760:ALA:HA	2:O:768:GLN:HG2	1.71	0.71
2:P:71:VAL:HG22	2:P:248:VAL:CB	2.21	0.71
2:P:281:VAL:HG12	2:P:282:ARG:NH2	2.06	0.71
2:P:764:ARG:HG2	2:P:768:GLN:OE1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:37:LEU:HD13	2:Q:310:LEU:HA	1.73	0.71
2:Q:704:THR:N	2:Q:707:SER:HG	1.87	0.71
2:R:93:LEU:HD23	2:R:106:CYS:SG	2.30	0.71
2:R:133:VAL:HG13	2:R:210:ILE:CD1	2.19	0.71
2:R:137:LEU:HD13	2:R:150:LYS:HD3	1.73	0.71
2:R:286:ARG:HA	2:R:289:MET:CE	2.21	0.71
2:R:745:LEU:HA	2:R:748:VAL:HG12	1.73	0.71
2:S:152:GLN:HE21	2:S:156:HIS:CE1	2.07	0.71
2:S:272:THR:HA	2:S:275:GLU:OE2	1.90	0.71
2:S:787:LEU:HD13	2:S:842:PHE:CD2	2.25	0.71
1:D:53:TRP:CH2	1:D:57:VAL:HG11	2.25	0.71
1:L:214:ILE:HD11	1:L:240:LEU:HD13	1.73	0.71
1:L:517:LEU:HD11	1:L:696:MET:CE	2.21	0.71
2:M:38:ARG:HG2	2:M:89:VAL:CG2	2.21	0.71
2:M:130:ASN:HA	2:M:153:TRP:CZ2	2.26	0.71
2:M:296:GLN:HA	2:M:299:LEU:CD2	2.21	0.71
2:M:348:ILE:HD13	2:M:372:LEU:HD23	1.72	0.71
2:M:874:PHE:O	2:M:878:ILE:HG23	1.90	0.71
2:N:272:THR:HA	2:N:275:GLU:OE2	1.90	0.71
2:N:352:VAL:O	2:N:356:LEU:HB2	1.90	0.71
2:N:512:ASN:HA	2:N:516:THR:HG23	1.72	0.71
2:O:345:ARG:HD2	2:O:346:GLN:N	2.05	0.71
2:O:571:LEU:O	2:O:745:LEU:HB3	1.91	0.71
2:P:596:GLU:HG2	2:P:604:MET:CE	2.21	0.71
2:Q:256:LEU:HD12	2:Q:257:TYR:N	2.05	0.71
2:Q:815:ASP:HA	2:Q:870:LYS:HD3	1.71	0.71
2:R:486:VAL:CG2	2:R:731:ALA:HB2	2.21	0.71
2:R:864:SER:HB3	2:R:867:ALA:HB3	1.73	0.71
2:S:82:LYS:HA	2:S:85:PHE:CD2	2.26	0.71
2:S:482:LEU:O	2:S:486:VAL:HG13	1.90	0.71
2:S:608:LEU:HD21	2:S:652:GLN:HE22	1.53	0.71
1:C:88:PRO:O	1:C:132:LEU:HD11	1.89	0.71
1:C:723:HIS:O	1:C:726:ARG:HG3	1.90	0.71
1:D:214:ILE:CD1	1:D:291:LEU:HD22	2.20	0.71
2:M:160:LEU:HD12	2:M:196:LEU:HD11	1.73	0.71
2:M:414:PRO:HG2	2:M:491:GLN:NE2	2.06	0.71
2:N:507:SER:O	2:N:535:TYR:OH	2.08	0.71
2:N:756:LEU:HD23	2:N:769:SER:O	1.91	0.71
2:O:205:LYS:HA	2:O:245:LYS:HZ3	1.55	0.71
2:O:799:ARG:HH12	2:O:827:LYS:HD3	1.55	0.71
2:P:131:LYS:HE2	2:Q:192:GLY:HA2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:217:LEU:HD11	2:P:249:VAL:CG1	2.20	0.71
2:P:367:TYR:O	2:P:371:LEU:HG	1.89	0.71
2:Q:271:LYS:O	2:Q:275:GLU:HG2	1.91	0.71
2:Q:282:ARG:HA	2:Q:285:GLU:CG	2.20	0.71
2:Q:498:LEU:HA	2:Q:501:LEU:CD2	2.21	0.71
2:R:285:GLU:N	2:R:285:GLU:OE1	2.23	0.71
2:R:304:VAL:HA	2:R:307:ARG:CD	2.21	0.71
2:S:732:LEU:HB3	2:S:736:LYS:NZ	2.06	0.71
1:B:507:ILE:HD11	1:B:680:LEU:HD22	1.73	0.71
1:E:401:LEU:HD11	1:E:459:LEU:HD23	1.73	0.71
1:I:150:GLU:OE2	1:I:152:HIS:N	2.24	0.71
1:K:644:VAL:HG12	1:K:653:LEU:HD11	1.73	0.71
2:M:159:GLN:O	2:M:162:ARG:HG2	1.91	0.71
2:M:159:GLN:HA	2:M:162:ARG:NE	2.06	0.71
2:M:741:PHE:CZ	2:M:745:LEU:HD21	2.25	0.71
2:N:318:GLY:HA2	2:N:323:ALA:CB	2.16	0.71
2:N:425:MET:HG3	2:N:428:ASN:OD1	1.90	0.71
2:O:434:LEU:HD13	2:O:449:ASP:OD1	1.89	0.71
2:O:933:ALA:O	2:O:934:ARG:HD3	1.90	0.71
2:P:379:LEU:HD12	2:P:380:MET:N	2.06	0.71
2:P:412:SER:OG	2:P:414:PRO:HD2	1.90	0.71
2:P:552:ASN:OD1	2:P:553:ARG:HD2	1.91	0.71
2:Q:105:LYS:O	2:Q:216:ILE:HD12	1.91	0.71
2:Q:599:LEU:HD13	2:Q:712:LYS:HE2	1.72	0.71
2:Q:760:ALA:O	2:Q:768:GLN:HB3	1.91	0.71
2:Q:762:HIS:HB3	2:Q:764:ARG:NE	2.06	0.71
2:R:260:LEU:HD12	2:R:261:ILE:N	2.06	0.71
2:S:35:LYS:O	2:S:38:ARG:NH1	2.23	0.71
2:S:776:ARG:NH1	2:S:860:GLY:O	2.22	0.71
2:S:890:GLU:HA	2:S:893:ASP:OD2	1.91	0.71
1:F:429:ASN:OD1	1:F:430:GLY:N	2.24	0.70
1:J:533:ALA:O	1:J:689:GLN:NE2	2.23	0.70
2:M:713:VAL:HG22	2:M:849:PRO:HG2	1.73	0.70
2:M:748:VAL:CG1	2:M:811:VAL:HG13	2.21	0.70
2:N:348:ILE:CD1	2:N:383:LEU:HD22	2.19	0.70
2:N:425:MET:CE	2:N:477:ASN:HB2	2.21	0.70
2:N:751:GLN:OE1	2:N:811:VAL:HB	1.91	0.70
2:N:768:GLN:O	2:N:773:LYS:NZ	2.24	0.70
2:P:136:LYS:NZ	2:P:210:ILE:HB	2.06	0.70
2:P:227:PHE:HB2	2:P:256:LEU:CD2	2.21	0.70
2:P:292:HIS:ND1	2:P:293:LEU:HD22	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:783:LEU:HD21	2:P:845:LEU:HB2	1.73	0.70
2:Q:113:THR:HG22	2:Q:226:GLN:CB	2.19	0.70
2:Q:423:GLY:O	2:Q:426:LEU:HD22	1.91	0.70
2:Q:612:ALA:CB	2:Q:654:THR:HG22	2.19	0.70
2:R:289:MET:O	2:R:293:LEU:HD23	1.91	0.70
2:R:305:GLN:N	2:R:305:GLN:OE1	2.24	0.70
2:R:577:ASN:OD1	2:R:923:VAL:HB	1.91	0.70
2:S:369:ASN:OD1	2:S:373:LYS:NZ	2.24	0.70
2:S:611:VAL:HB	2:S:619:PHE:HE1	1.55	0.70
2:S:706:PHE:O	2:S:710:ILE:HG13	1.91	0.70
1:H:215:ARG:NH2	1:H:263:LYS:O	2.24	0.70
2:M:206:ARG:NH1	2:M:209:GLU:OE1	2.24	0.70
2:M:293:LEU:HB3	2:M:297:TYR:CZ	2.26	0.70
2:M:723:ILE:CD1	2:M:836:LYS:HE3	2.21	0.70
2:N:129:LEU:O	2:N:133:VAL:HG23	1.90	0.70
2:P:293:LEU:HA	2:P:296:GLN:HG3	1.74	0.70
2:P:465:TYR:HB2	2:P:467:ARG:HH11	1.53	0.70
2:P:743:PHE:HA	2:P:746:ASN:OD1	1.90	0.70
2:P:886:LEU:CD2	2:P:887:LEU:HG	2.20	0.70
2:R:535:TYR:CD2	2:R:539:MET:HE1	2.27	0.70
2:S:359:ARG:NH1	2:S:797:SER:O	2.24	0.70
1:C:213:ASN:ND2	1:C:240:LEU:O	2.24	0.70
1:I:642:GLU:N	1:I:642:GLU:OE1	2.24	0.70
1:J:98:TRP:O	1:J:101:LEU:N	2.25	0.70
1:J:517:LEU:O	1:J:699:ARG:NH1	2.23	0.70
2:M:309:GLN:HG2	2:S:438:GLN:OE1	1.92	0.70
2:M:487:SER:O	2:M:491:GLN:HG3	1.90	0.70
2:M:707:SER:O	2:M:711:THR:HG23	1.91	0.70
2:M:858:ILE:HD12	2:M:915:THR:CA	2.19	0.70
2:N:105:LYS:CG	2:N:211:LEU:HD21	2.20	0.70
2:N:331:LYS:HB3	2:N:336:MET:CB	2.20	0.70
2:N:833:LYS:HZ1	2:N:838:THR:H	1.38	0.70
2:O:37:LEU:HD11	2:O:309:GLN:HE21	1.55	0.70
2:O:165:HIS:CD2	2:O:166:LEU:HD23	2.26	0.70
2:P:588:TYR:O	2:P:589:LYS:HE2	1.91	0.70
2:Q:295:GLN:O	2:Q:299:LEU:HG	1.92	0.70
2:Q:389:LYS:NZ	2:Q:416:LEU:O	2.22	0.70
2:Q:486:VAL:CG2	2:Q:731:ALA:HB2	2.13	0.70
2:Q:543:ARG:HD3	2:R:469:GLN:HE22	1.56	0.70
2:R:575:GLN:O	2:R:923:VAL:HG12	1.90	0.70
2:R:770:ASN:OD1	2:R:773:LYS:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:223:ILE:HD12	2:S:227:PHE:O	1.89	0.70
2:S:483:ALA:O	2:S:486:VAL:HG22	1.90	0.70
1:A:139:VAL:HG13	1:A:761:PHE:HE2	1.56	0.70
1:E:556:ARG:HH12	1:E:673:VAL:HG21	1.57	0.70
1:G:95:PHE:O	1:G:99:GLN:NE2	2.24	0.70
2:M:294:GLU:OE1	2:S:427:SER:OG	2.09	0.70
2:M:419:ASN:HA	2:M:422:TYR:CE1	2.26	0.70
2:M:434:LEU:HD21	2:M:452:THR:CB	2.20	0.70
2:N:136:LYS:CD	2:N:211:LEU:HA	2.21	0.70
2:N:591:PHE:CE1	2:N:920:SER:HB3	2.24	0.70
2:O:355:GLY:HA3	2:O:417:LEU:HD22	1.74	0.70
2:O:807:ARG:NE	2:O:820:LYS:HE3	2.06	0.70
2:P:205:LYS:HE3	2:P:245:LYS:HD3	1.73	0.70
2:P:293:LEU:O	2:P:296:GLN:NE2	2.24	0.70
2:P:657:VAL:HG13	2:P:658:PRO:HD2	1.74	0.70
2:Q:166:LEU:HD12	2:Q:196:LEU:CG	2.21	0.70
2:Q:816:GLU:HB3	2:Q:820:LYS:NZ	2.06	0.70
2:R:225:THR:HA	2:S:297:TYR:CE1	2.27	0.70
2:R:381:GLN:HE22	2:S:305:GLN:HB3	1.55	0.70
2:S:336:MET:HA	2:S:340:ASP:HB2	1.74	0.70
1:I:34:PHE:O	1:I:37:GLN:NE2	2.23	0.70
2:M:282:ARG:HA	2:M:285:GLU:CD	2.12	0.70
2:M:613:SER:HB2	2:M:657:VAL:CG2	2.22	0.70
2:N:152:GLN:HA	2:N:155:ASN:ND2	2.07	0.70
2:P:206:ARG:O	2:P:210:ILE:HG12	1.91	0.70
2:P:466:LEU:HD13	2:P:482:LEU:HB2	1.72	0.70
2:Q:441:PHE:O	2:Q:445:SER:OG	2.08	0.70
2:R:414:PRO:HB2	2:R:488:GLU:OE1	1.91	0.70
2:R:524:ASP:HB3	2:R:527:LYS:CG	2.20	0.70
2:R:723:ILE:CG2	2:R:844:LEU:HD21	2.20	0.70
2:S:333:GLU:N	2:S:336:MET:HE3	2.04	0.70
2:S:495:SER:OG	2:S:630:ALA:O	2.08	0.70
2:S:862:ASN:N	2:S:871:GLU:OE2	2.24	0.70
2:M:503:VAL:HG11	2:M:544:ILE:HG21	1.73	0.70
2:M:727:ILE:HG22	2:M:729:PRO:HG3	1.73	0.70
2:N:236:SER:HA	2:N:240:PHE:HD2	1.56	0.70
2:N:560:ASN:HD21	2:N:657:VAL:HG13	1.56	0.70
2:N:657:VAL:HG13	2:N:658:PRO:HD2	1.72	0.70
2:O:312:THR:N	2:O:315:GLN:HE21	1.88	0.70
2:O:822:LYS:O	2:O:826:GLU:HG3	1.90	0.70
2:Q:381:GLN:HE21	2:R:303:PRO:HB3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:511:PHE:CZ	2:Q:532:ILE:HG22	2.26	0.70
2:Q:872:THR:HG22	2:Q:892:TRP:CZ2	2.26	0.70
2:Q:914:ILE:HD12	2:Q:917:LEU:HD22	1.72	0.70
2:R:253:ASP:O	2:R:256:LEU:HG	1.91	0.70
2:R:379:LEU:HD12	2:R:380:MET:N	2.07	0.70
2:R:720:VAL:CG1	2:R:844:LEU:HD22	2.16	0.70
2:R:757:TYR:H	2:R:760:ALA:HB2	1.55	0.70
2:R:850:ILE:O	2:R:853:PRO:HD2	1.91	0.70
2:R:852:HIS:HA	2:R:855:ILE:CD1	2.22	0.70
2:S:86:ILE:O	2:S:90:VAL:HG23	1.91	0.70
2:S:290:VAL:O	2:S:294:GLU:HG2	1.91	0.70
2:S:836:LYS:H	2:S:836:LYS:HD2	1.56	0.70
1:B:217:ILE:HG23	1:B:220:ARG:NH2	2.06	0.70
1:C:547:LEU:O	1:C:677:LEU:N	2.23	0.70
2:M:312:THR:O	2:M:316:LEU:HG	1.91	0.70
2:M:389:LYS:C	2:M:416:LEU:HD11	2.12	0.70
2:M:751:GLN:CD	2:M:811:VAL:HG11	2.11	0.70
2:M:856:PHE:CE2	2:M:886:LEU:HD23	2.27	0.70
2:N:444:ASP:HB2	2:N:542:GLY:O	1.91	0.70
2:N:763:GLY:CA	2:N:773:LYS:HE3	2.21	0.70
2:O:120:PRO:HG2	2:O:123:VAL:CG2	2.21	0.70
2:P:140:TYR:OH	2:P:147:ARG:HD2	1.92	0.70
2:P:425:MET:SD	2:P:429:ILE:HB	2.31	0.70
2:P:536:VAL:HG23	2:P:541:VAL:CG1	2.20	0.70
2:Q:261:ILE:HB	2:Q:264:LYS:HE3	1.74	0.70
2:Q:612:ALA:CB	2:Q:656:ILE:HD13	2.21	0.70
2:Q:732:LEU:HD11	2:Q:736:LYS:NZ	2.06	0.70
2:R:177:PHE:CE2	2:R:181:LEU:HD11	2.25	0.70
2:R:569:VAL:HG23	2:R:922:ILE:HG21	1.74	0.70
2:S:260:LEU:C	2:S:264:LYS:HE2	2.12	0.70
2:S:760:ALA:HB1	2:S:769:SER:N	2.05	0.70
1:H:602:THR:O	1:H:606:VAL:HG23	1.92	0.70
2:M:921:THR:HG23	2:M:927:TYR:HE2	1.56	0.70
2:N:178:SER:HA	2:N:181:LEU:HD21	1.74	0.70
2:N:415:ASN:OD1	2:N:416:LEU:N	2.25	0.70
2:N:435:ASN:ND2	2:N:449:ASP:OD2	2.25	0.70
2:N:765:MET:O	2:N:773:LYS:NZ	2.25	0.70
2:P:136:LYS:HG3	2:P:211:LEU:HD13	1.73	0.70
2:P:156:HIS:HB3	2:P:203:LEU:CD2	2.21	0.70
2:P:319:GLU:HG2	2:P:320:LYS:N	2.06	0.70
2:P:511:PHE:O	2:P:515:VAL:N	2.18	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:41:LEU:O	2:R:45:ILE:HD12	1.91	0.70
2:S:181:LEU:HB2	2:S:182:LYS:HZ2	1.56	0.70
2:S:444:ASP:O	2:S:542:GLY:HA2	1.91	0.70
1:A:663:ASP:OD1	1:A:664:ASN:N	2.25	0.70
1:A:702:ALA:HB2	1:A:793:TYR:CD2	2.27	0.70
2:M:133:VAL:HB	2:M:153:TRP:CH2	2.26	0.70
2:M:255:ARG:HG2	2:S:430:TYR:CE1	2.27	0.70
2:M:272:THR:O	2:M:276:GLN:HG2	1.92	0.70
2:N:135:ASP:O	2:N:138:LYS:HG3	1.92	0.70
2:O:137:LEU:HD11	2:O:210:ILE:HD13	1.73	0.70
2:O:261:ILE:HG23	2:O:294:GLU:HG2	1.73	0.70
2:P:218:ILE:HG13	2:P:248:VAL:HA	1.73	0.70
2:P:304:VAL:O	2:P:307:ARG:HB2	1.92	0.70
2:P:310:LEU:O	2:P:310:LEU:HD23	1.90	0.70
2:P:512:ASN:HA	2:P:516:THR:HG23	1.73	0.70
2:R:314:LEU:HA	2:R:317:VAL:CG2	2.20	0.70
2:R:415:ASN:HB3	2:R:488:GLU:CD	2.12	0.70
2:R:596:GLU:O	2:R:601:LYS:HD2	1.92	0.70
2:S:83:THR:HA	2:S:86:ILE:HG12	1.73	0.70
2:S:279:GLU:OE2	2:S:282:ARG:HG3	1.92	0.70
2:S:874:PHE:CE2	2:S:878:ILE:HD11	2.27	0.70
1:D:160:SER:OG	1:D:163:GLU:OE1	2.10	0.70
2:M:204:VAL:HG13	2:M:216:ILE:HD13	1.73	0.70
2:M:289:MET:O	2:M:293:LEU:HG	1.92	0.70
2:M:446:LEU:O	2:M:450:ILE:HD12	1.91	0.70
2:N:359:ARG:NH1	2:N:792:LEU:O	2.24	0.70
2:O:42:VAL:HG21	2:O:92:SER:OG	1.91	0.70
2:O:113:THR:HG22	2:O:226:GLN:CB	2.22	0.70
2:O:452:THR:HA	2:O:455:LYS:NZ	2.05	0.70
2:P:110:ILE:HG22	2:P:219:THR:O	1.92	0.70
2:P:241:PHE:O	2:P:246:LEU:HD11	1.91	0.70
2:P:243:SER:HB3	2:P:246:LEU:CD2	2.22	0.70
2:P:293:LEU:HA	2:P:296:GLN:CG	2.22	0.70
2:P:379:LEU:HA	2:P:382:VAL:HG22	1.74	0.70
2:P:438:GLN:HA	2:P:441:PHE:CZ	2.27	0.70
2:P:719:ASN:O	2:P:723:ILE:HG13	1.91	0.70
2:P:787:LEU:HD21	2:P:824:ILE:HD12	1.73	0.70
2:Q:154:GLN:HA	2:Q:157:LEU:HD12	1.72	0.70
2:Q:159:GLN:HA	2:Q:162:ARG:NH1	2.06	0.70
2:Q:429:ILE:CD1	2:Q:434:LEU:HD12	2.22	0.70
2:Q:512:ASN:HA	2:Q:516:THR:CG2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:222:ASP:OD1	2:R:223:ILE:N	2.25	0.70
2:R:644:ASN:O	2:R:648:LYS:HD3	1.91	0.70
2:S:111:ASP:OD2	2:S:113:THR:OG1	2.07	0.70
2:S:352:VAL:HG23	2:S:356:LEU:HD12	1.74	0.70
1:A:649:MET:SD	1:A:653:LEU:HG	2.32	0.69
1:I:404:LEU:O	1:I:407:VAL:HG22	1.91	0.69
2:M:227:PHE:CZ	2:N:268:ASN:HB3	2.26	0.69
2:M:348:ILE:HD13	2:M:372:LEU:CD2	2.22	0.69
2:M:756:LEU:HD13	2:M:925:ALA:HB2	1.72	0.69
2:N:275:GLU:O	2:N:278:LYS:NZ	2.23	0.69
2:N:572:GLY:O	2:N:622:VAL:HG12	1.92	0.69
2:N:636:ARG:NH1	2:N:637:CYS:H	1.91	0.69
2:N:757:TYR:HE1	2:N:929:LYS:HE2	1.57	0.69
2:P:83:THR:HA	2:P:86:ILE:HG12	1.74	0.69
2:P:223:ILE:HB	2:P:226:GLN:O	1.92	0.69
2:P:460:PHE:HB3	2:P:512:ASN:ND2	2.05	0.69
2:P:799:ARG:NH1	2:P:799:ARG:HB3	2.07	0.69
2:Q:261:ILE:HA	2:Q:264:LYS:HE3	1.74	0.69
2:Q:412:SER:OG	2:Q:414:PRO:HD2	1.92	0.69
2:Q:453:TYR:OH	2:Q:479:SER:HB3	1.90	0.69
2:R:267:GLU:OE2	2:S:270:SER:HB2	1.91	0.69
2:R:445:SER:O	2:R:448:LYS:HG3	1.92	0.69
2:S:111:ASP:HB2	2:S:221:ASP:OD2	1.92	0.69
2:S:217:LEU:CD1	2:S:247:VAL:HG13	2.21	0.69
2:S:512:ASN:HA	2:S:516:THR:HG23	1.74	0.69
2:S:856:PHE:HB3	2:S:861:ILE:HD11	1.74	0.69
1:A:595:GLU:OE2	1:K:647:THR:OG1	2.10	0.69
1:C:535:GLY:HA2	1:C:726:ARG:NE	2.07	0.69
1:D:202:ARG:NH1	1:D:206:ASP:OD1	2.25	0.69
1:D:415:GLU:O	1:D:796:HIS:NE2	2.25	0.69
1:E:218:LEU:HA	1:E:221:VAL:HG12	1.74	0.69
2:M:511:PHE:HB2	2:M:535:TYR:CZ	2.27	0.69
2:M:863:CYS:HA	2:M:868:LEU:HD13	1.74	0.69
2:N:105:LYS:HG2	2:N:213:CYS:CB	2.23	0.69
2:N:773:LYS:HG2	2:N:860:GLY:HA2	1.73	0.69
2:O:103:ASN:O	2:O:214:LYS:N	2.18	0.69
2:O:131:LYS:NZ	2:P:183:LEU:HD22	2.07	0.69
2:O:208:CYS:SG	2:O:245:LYS:HD3	2.32	0.69
2:O:264:LYS:HA	2:O:267:GLU:OE1	1.93	0.69
2:O:452:THR:HG22	2:O:456:GLN:NE2	2.05	0.69
2:O:805:GLY:HA3	2:O:807:ARG:HH22	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:107:LEU:HG	2:P:132:MET:CE	2.22	0.69
2:Q:120:PRO:HG2	2:Q:123:VAL:HG23	1.73	0.69
2:Q:379:LEU:HD12	2:Q:380:MET:N	2.07	0.69
2:R:208:CYS:HB2	2:R:245:LYS:NZ	2.07	0.69
2:R:272:THR:O	2:R:276:GLN:HG2	1.91	0.69
2:S:265:GLN:HA	2:S:268:ASN:OD1	1.91	0.69
1:B:151:THR:O	1:B:356:ARG:NH2	2.24	0.69
1:K:631:SER:O	1:K:634:LEU:HG	1.91	0.69
2:M:223:ILE:HD12	2:M:227:PHE:CA	2.22	0.69
2:M:858:ILE:O	2:M:918:ASN:HB2	1.91	0.69
2:N:790:GLU:CD	2:N:839:HIS:HA	2.12	0.69
2:N:858:ILE:HG22	2:N:918:ASN:HD22	1.57	0.69
2:O:82:LYS:O	2:O:86:ILE:HG23	1.92	0.69
2:O:208:CYS:HA	2:O:213:CYS:SG	2.32	0.69
2:O:303:PRO:HG2	2:O:306:LYS:HD3	1.73	0.69
2:O:597:ASN:CB	2:O:911:GLN:HG2	2.21	0.69
2:P:110:ILE:HG22	2:P:220:PHE:HA	1.73	0.69
2:Q:38:ARG:HG3	2:Q:89:VAL:CG2	2.21	0.69
2:Q:261:ILE:HA	2:Q:264:LYS:HG2	1.74	0.69
2:R:45:ILE:HG13	2:R:72:PHE:CE1	2.26	0.69
2:R:376:VAL:HA	2:R:379:LEU:HD21	1.74	0.69
2:R:378:LEU:HD11	2:R:425:MET:CE	2.22	0.69
2:R:584:MET:SD	2:R:921:THR:OG1	2.51	0.69
2:R:613:SER:HA	2:R:657:VAL:HG23	1.73	0.69
2:R:823:ILE:HG23	2:R:827:LYS:HZ3	1.56	0.69
2:S:112:PRO:HB2	2:S:229:ALA:CB	2.21	0.69
2:S:574:VAL:HG11	2:S:771:ALA:CB	2.22	0.69
1:C:45:PRO:O	1:C:47:HIS:ND1	2.26	0.69
2:M:802:ILE:HD12	2:M:824:ILE:HD11	1.74	0.69
2:N:105:LYS:HB2	2:N:216:ILE:HD12	1.73	0.69
2:N:719:ASN:O	2:N:723:ILE:HG13	1.93	0.69
2:N:747:ASN:ND2	2:N:811:VAL:HG21	2.07	0.69
2:O:161:GLN:HA	2:O:164:LEU:CD1	2.22	0.69
2:O:204:VAL:HG11	2:O:246:LEU:CD1	2.23	0.69
2:O:452:THR:CA	2:O:455:LYS:HZ3	2.03	0.69
2:O:511:PHE:CZ	2:O:532:ILE:HG22	2.27	0.69
2:O:536:VAL:HG13	2:O:541:VAL:HG23	1.72	0.69
2:O:744:ASN:ND2	2:O:809:ASN:HB3	2.07	0.69
2:P:200:PHE:O	2:P:204:VAL:HG23	1.91	0.69
2:P:288:TYR:O	2:P:291:GLU:HG3	1.92	0.69
2:Q:425:MET:HG2	2:Q:477:ASN:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:159:GLN:O	2:R:162:ARG:HG2	1.92	0.69
2:R:356:LEU:HD12	2:R:358:LEU:HD22	1.75	0.69
2:R:780:LEU:HD21	2:R:810:PRO:HB2	1.73	0.69
2:S:269:TYR:OH	2:S:286:ARG:NH2	2.25	0.69
2:S:352:VAL:HG22	2:S:358:LEU:CD1	2.22	0.69
2:S:356:LEU:HD21	2:S:484:SER:HB2	1.74	0.69
2:S:776:ARG:NH1	2:S:861:ILE:HA	2.07	0.69
1:G:173:GLU:OE2	1:G:173:GLU:N	2.24	0.69
1:J:361:SER:OG	1:J:445:GLN:NE2	2.25	0.69
1:K:34:PHE:O	1:K:37:GLN:NE2	2.26	0.69
2:M:149:GLN:O	2:M:152:GLN:HG2	1.92	0.69
2:M:208:CYS:HA	2:M:213:CYS:SG	2.32	0.69
2:M:467:ARG:HH11	2:M:469:GLN:CA	2.04	0.69
2:M:646:PHE:O	2:M:650:ILE:HG12	1.93	0.69
2:N:163:GLY:O	2:N:196:LEU:HD21	1.92	0.69
2:N:863:CYS:SG	2:N:896:THR:HA	2.32	0.69
2:O:612:ALA:HA	2:O:616:LEU:CD2	2.22	0.69
2:Q:437:GLU:OE2	2:Q:439:HIS:NE2	2.25	0.69
2:R:606:SER:HB3	2:R:650:ILE:CG1	2.22	0.69
2:R:893:ASP:OD1	2:R:897:LYS:NZ	2.26	0.69
1:B:152:HIS:ND1	1:B:704:GLU:OE1	2.24	0.69
1:C:389:TRP:O	1:C:403:ASN:ND2	2.25	0.69
1:F:97:GLU:O	1:F:100:THR:OG1	2.09	0.69
1:G:663:ASP:OD1	1:G:664:ASN:N	2.26	0.69
2:M:122:LEU:O	2:M:126:THR:HG23	1.91	0.69
2:M:126:THR:CG2	2:M:160:LEU:HD21	2.23	0.69
2:M:159:GLN:HA	2:M:162:ARG:CD	2.22	0.69
2:M:355:GLY:HA2	2:M:414:PRO:CG	2.21	0.69
2:M:363:ASP:OD1	2:M:364:ALA:N	2.26	0.69
2:M:518:LEU:CD2	2:M:531:LEU:HD11	2.22	0.69
2:M:518:LEU:CD2	2:M:531:LEU:HD21	2.22	0.69
2:N:81:GLY:HA3	2:N:377:ARG:NH2	2.08	0.69
2:N:113:THR:HG22	2:N:226:GLN:HB3	1.74	0.69
2:N:379:LEU:HD12	2:N:380:MET:N	2.07	0.69
2:N:538:TYR:OH	2:N:553:ARG:NH1	2.24	0.69
2:N:868:LEU:O	2:N:872:THR:HG23	1.93	0.69
2:O:748:VAL:CA	2:O:811:VAL:HG13	2.22	0.69
2:Q:289:MET:O	2:Q:293:LEU:HG	1.93	0.69
2:Q:369:ASN:O	2:Q:373:LYS:NZ	2.25	0.69
2:Q:483:ALA:O	2:Q:486:VAL:HG22	1.93	0.69
2:Q:868:LEU:O	2:Q:872:THR:HG23	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:914:ILE:CD1	2:Q:917:LEU:HD22	2.21	0.69
2:R:131:LYS:NZ	2:S:190:SER:HA	2.08	0.69
1:F:375:ARG:NH2	1:F:394:PRO:O	2.25	0.69
1:J:502:ASP:OD2	1:J:503:PHE:N	2.26	0.69
2:N:741:PHE:HA	2:N:744:ASN:HD22	1.57	0.69
2:O:359:ARG:NE	2:O:794:HIS:O	2.21	0.69
2:O:425:MET:HG3	2:O:477:ASN:HB3	1.74	0.69
2:O:772:ALA:HA	2:O:917:LEU:CD2	2.22	0.69
2:P:178:SER:HA	2:P:181:LEU:HD12	1.75	0.69
2:Q:73:PHE:CB	2:Q:307:ARG:HG3	2.16	0.69
2:Q:491:GLN:HG2	2:Q:728:ARG:HE	1.57	0.69
2:R:389:LYS:HE2	2:R:389:LYS:HA	1.75	0.69
2:S:116:PRO:HB2	2:S:119:GLU:CG	2.22	0.69
2:S:173:LYS:HB3	2:S:176:TYR:CE1	2.28	0.69
2:S:608:LEU:HD21	2:S:610:THR:HG1	1.56	0.69
1:B:487:LEU:O	1:B:490:SER:OG	2.04	0.69
1:B:717:ARG:N	1:B:721:GLU:OE2	2.26	0.69
1:E:702:ALA:HB2	1:E:793:TYR:CD2	2.27	0.69
1:G:7:ASN:ND2	1:G:104:ARG:O	2.26	0.69
1:G:375:ARG:NH1	1:G:379:GLU:OE2	2.25	0.69
1:H:53:TRP:CH2	1:H:57:VAL:HG11	2.28	0.69
1:K:642:GLU:N	1:K:642:GLU:OE1	2.24	0.69
1:L:599:SER:O	1:L:602:THR:OG1	2.07	0.69
2:M:727:ILE:HD13	2:M:841:LEU:CD2	2.23	0.69
2:N:227:PHE:CZ	2:O:268:ASN:HB3	2.27	0.69
2:N:589:LYS:O	2:N:920:SER:OG	2.08	0.69
2:O:304:VAL:HG22	2:O:307:ARG:NH1	2.08	0.69
2:O:711:THR:O	2:O:715:GLN:HG3	1.91	0.69
2:P:109:THR:HA	2:P:219:THR:HB	1.73	0.69
2:P:111:ASP:OD1	2:P:113:THR:OG1	2.08	0.69
2:P:359:ARG:CG	2:P:795:SER:HA	2.22	0.69
2:P:658:PRO:HB2	2:P:660:TRP:CZ3	2.27	0.69
2:P:758:ARG:HB2	2:P:930:ASP:OD1	1.93	0.69
2:Q:148:LYS:O	2:Q:151:GLU:HG3	1.93	0.69
2:Q:304:VAL:HA	2:Q:307:ARG:NH2	2.08	0.69
2:Q:357:ASN:ND2	2:Q:728:ARG:HD3	2.08	0.69
2:Q:377:ARG:HA	2:Q:380:MET:SD	2.33	0.69
2:Q:567:ILE:CD1	2:Q:753:LYS:HB3	2.23	0.69
2:Q:581:ARG:HH12	2:R:757:TYR:HH	1.40	0.69
2:Q:605:ALA:HB3	2:Q:650:ILE:HG23	1.74	0.69
2:Q:741:PHE:O	2:Q:745:LEU:HD23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:788:VAL:O	2:Q:792:LEU:HD23	1.92	0.69
2:Q:792:LEU:HD13	2:Q:800:GLU:HG3	1.73	0.69
2:R:38:ARG:HD2	2:R:39:ASP:N	2.07	0.69
2:R:108:PRO:HB2	2:R:128:ARG:CZ	2.23	0.69
2:R:156:HIS:HB3	2:R:203:LEU:CD2	2.22	0.69
2:R:434:LEU:HD13	2:R:449:ASP:OD1	1.92	0.69
2:S:123:VAL:CG2	2:S:164:LEU:HD11	2.23	0.69
2:S:311:LYS:HD2	2:S:315:GLN:OE1	1.91	0.69
2:S:462:THR:HB	2:S:465:TYR:CD2	2.27	0.69
2:S:466:LEU:HD13	2:S:482:LEU:CD1	2.23	0.69
2:S:727:ILE:HD12	2:S:841:LEU:CD2	2.17	0.69
1:F:364:ASN:O	1:F:367:GLN:NE2	2.26	0.69
1:H:401:LEU:HD11	1:H:459:LEU:CD2	2.23	0.69
1:L:146:GLU:O	1:L:351:ARG:NH2	2.26	0.69
2:N:112:PRO:HA	2:N:115:LEU:CD1	2.22	0.69
2:N:482:LEU:O	2:N:486:VAL:HG13	1.93	0.69
2:N:549:HIS:HA	2:N:552:ASN:ND2	2.08	0.69
2:O:319:GLU:HG2	2:O:320:LYS:H	1.57	0.69
2:O:723:ILE:HD11	2:O:844:LEU:CD2	2.23	0.69
2:P:852:HIS:HA	2:P:855:ILE:CG1	2.23	0.69
2:Q:120:PRO:HG2	2:Q:123:VAL:CG2	2.23	0.69
2:Q:208:CYS:HB2	2:Q:245:LYS:NZ	2.08	0.69
2:Q:267:GLU:N	2:Q:267:GLU:OE1	2.26	0.69
2:Q:593:ILE:HG12	2:Q:601:LYS:NZ	2.08	0.69
2:R:438:GLN:HG3	2:R:441:PHE:HZ	1.58	0.69
2:R:657:VAL:HG13	2:R:658:PRO:HD2	1.74	0.69
2:S:265:GLN:HG2	2:S:290:VAL:HG13	1.73	0.69
2:S:495:SER:HB3	2:S:634:ALA:HB3	1.73	0.69
2:S:524:ASP:OD1	2:S:525:ARG:N	2.25	0.69
2:S:567:ILE:CD1	2:S:753:LYS:HB3	2.21	0.69
2:M:135:ASP:HA	2:M:138:LYS:HG2	1.75	0.69
2:M:235:GLU:O	2:M:239:LYS:HE2	1.92	0.69
2:M:358:LEU:O	2:M:358:LEU:HD23	1.93	0.69
2:M:819:LYS:O	2:M:822:LYS:HG3	1.92	0.69
2:N:237:ILE:HA	2:N:241:PHE:CD2	2.28	0.69
2:N:269:TYR:CE1	2:N:286:ARG:HD3	2.20	0.69
2:N:279:GLU:OE1	2:N:280:SER:N	2.26	0.69
2:N:453:TYR:OH	2:N:479:SER:HB3	1.92	0.69
2:N:462:THR:HB	2:N:465:TYR:CD2	2.29	0.69
2:N:743:PHE:HA	2:N:746:ASN:HD22	1.56	0.69
2:O:107:LEU:HA	2:O:132:MET:HE2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:285:GLU:OE2	2:O:286:ARG:NH1	2.25	0.69
2:P:161:GLN:HG2	2:Q:177:PHE:CD2	2.26	0.69
2:P:227:PHE:CE1	2:Q:268:ASN:HB3	2.27	0.69
2:P:314:LEU:HA	2:P:317:VAL:CG2	2.22	0.69
2:Q:147:ARG:HB3	2:Q:149:GLN:OE1	1.93	0.69
2:Q:613:SER:HA	2:Q:657:VAL:HG23	1.73	0.69
2:S:135:ASP:CA	2:S:138:LYS:HG2	2.16	0.69
1:K:218:LEU:HA	1:K:221:VAL:HG22	1.75	0.68
2:M:852:HIS:HD2	2:M:855:ILE:HD11	1.57	0.68
2:N:293:LEU:O	2:N:296:GLN:NE2	2.26	0.68
2:O:111:ASP:HB3	2:O:114:LYS:HB2	1.75	0.68
2:O:366:MET:HE1	2:O:467:ARG:CG	2.23	0.68
2:O:589:LYS:HG3	2:O:590:LYS:H	1.58	0.68
2:P:390:LYS:HB2	2:P:416:LEU:CD2	2.20	0.68
2:P:575:GLN:HB2	2:P:619:PHE:CD2	2.28	0.68
2:Q:154:GLN:NE2	2:Q:155:ASN:OD1	2.26	0.68
2:Q:740:ARG:HH12	2:Q:788:VAL:HG11	1.57	0.68
2:R:159:GLN:HA	2:R:162:ARG:NE	2.08	0.68
2:S:790:GLU:OE2	2:S:839:HIS:HA	1.93	0.68
1:F:728:MET:CE	1:F:730:LEU:HD11	2.23	0.68
2:M:872:THR:HG22	2:M:892:TRP:HE1	1.57	0.68
2:N:109:THR:HA	2:N:219:THR:OG1	1.93	0.68
2:N:280:SER:HA	2:N:283:LEU:CG	2.22	0.68
2:N:605:ALA:CB	2:N:650:ILE:HG23	2.22	0.68
2:O:83:THR:HA	2:O:86:ILE:HG12	1.73	0.68
2:O:173:LYS:O	2:O:176:TYR:HB2	1.94	0.68
2:O:574:VAL:HG23	2:O:775:MET:HE3	1.75	0.68
2:Q:377:ARG:HA	2:Q:380:MET:CG	2.23	0.68
2:Q:503:VAL:CG1	2:Q:541:VAL:HG23	2.22	0.68
2:R:437:GLU:OE2	2:R:440:ARG:HD3	1.94	0.68
2:R:493:SER:N	2:R:727:ILE:HD11	2.09	0.68
2:S:296:GLN:O	2:S:300:LYS:HD3	1.93	0.68
1:G:26:ASP:OD1	1:G:27:GLU:N	2.27	0.68
2:M:120:PRO:CG	2:M:123:VAL:HG23	2.22	0.68
2:M:224:ASP:OD2	2:N:293:LEU:HD22	1.93	0.68
2:M:421:LEU:HD23	2:M:481:TYR:HA	1.76	0.68
2:M:611:VAL:HG21	2:M:617:MET:HB2	1.75	0.68
2:N:313:MET:HG3	2:N:372:LEU:HD11	1.74	0.68
2:N:467:ARG:HB3	2:N:469:GLN:NE2	2.08	0.68
2:N:528:PHE:O	2:N:532:ILE:HG23	1.93	0.68
2:Q:367:TYR:CE1	2:Q:468:PRO:HD3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:748:VAL:CA	2:Q:811:VAL:HG13	2.22	0.68
2:R:172:TYR:OH	2:R:177:PHE:HB2	1.94	0.68
2:S:357:ASN:O	2:S:730:SER:HB3	1.93	0.68
2:S:607:SER:CB	2:S:625:LEU:HB2	2.24	0.68
2:S:758:ARG:NH2	2:S:930:ASP:OD2	2.26	0.68
1:B:141:ASP:OD2	1:H:792:ILE:HG23	1.94	0.68
1:B:794:ARG:NH1	1:B:796:HIS:O	2.27	0.68
1:K:261:ASP:OD1	1:K:262:ASP:N	2.25	0.68
1:K:351:ARG:HG3	1:K:791:ARG:HH22	1.57	0.68
2:M:43:GLU:HG3	2:M:46:ARG:NH2	2.09	0.68
2:M:231:TRP:CE3	2:M:234:LEU:HD22	2.27	0.68
2:N:331:LYS:HB3	2:N:336:MET:HB3	1.75	0.68
2:N:444:ASP:OD1	2:N:445:SER:N	2.26	0.68
2:N:538:TYR:OH	2:N:656:ILE:O	2.11	0.68
2:N:768:GLN:CG	2:N:931:THR:HG21	2.22	0.68
2:N:808:LEU:HD23	2:N:809:ASN:N	2.08	0.68
2:P:156:HIS:HB3	2:P:203:LEU:HD23	1.75	0.68
2:Q:801:TYR:O	2:Q:827:LYS:HD2	1.94	0.68
2:R:529:GLU:HA	2:R:532:ILE:HG12	1.74	0.68
2:S:105:LYS:O	2:S:216:ILE:HG23	1.94	0.68
2:S:329:LYS:CE	2:S:341:ALA:HB3	2.22	0.68
2:S:448:LYS:HB3	2:S:542:GLY:HA3	1.74	0.68
2:S:486:VAL:HG21	2:S:731:ALA:HB2	1.76	0.68
1:A:404:LEU:O	1:A:407:VAL:HG22	1.93	0.68
1:I:720:SER:OG	1:I:721:GLU:OE1	2.07	0.68
2:M:727:ILE:O	2:M:729:PRO:HD3	1.93	0.68
2:N:74:VAL:CB	2:N:251:THR:HG22	2.15	0.68
2:N:86:ILE:CG2	2:N:251:THR:HG21	2.23	0.68
2:N:727:ILE:HG21	2:N:841:LEU:HD11	1.76	0.68
2:O:253:ASP:CG	2:O:255:ARG:HG3	2.14	0.68
2:P:269:TYR:CE1	2:P:286:ARG:HD3	2.28	0.68
2:P:379:LEU:O	2:P:382:VAL:HG22	1.94	0.68
2:Q:161:GLN:HG3	2:R:177:PHE:CD2	2.29	0.68
2:Q:758:ARG:NH2	2:Q:930:ASP:OD2	2.26	0.68
2:R:282:ARG:HA	2:R:285:GLU:OE1	1.93	0.68
2:R:378:LEU:HD11	2:R:425:MET:HE3	1.76	0.68
2:R:511:PHE:O	2:R:516:THR:HG23	1.93	0.68
2:S:370:GLU:HA	2:S:373:LYS:HD2	1.75	0.68
2:S:412:SER:HB3	2:S:415:ASN:ND2	2.08	0.68
1:E:84:GLU:O	1:E:86:GLY:N	2.27	0.68
1:F:663:ASP:OD2	1:F:664:ASN:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:26:ASP:OD1	1:I:27:GLU:N	2.25	0.68
1:L:405:GLU:OE1	1:L:458:ARG:NH1	2.26	0.68
2:M:379:LEU:HD12	2:M:380:MET:N	2.08	0.68
2:M:806:LEU:HG	2:M:808:LEU:CG	2.23	0.68
2:N:816:GLU:HA	2:N:819:LYS:CE	2.22	0.68
2:O:375:PRO:HD2	2:O:378:LEU:HD23	1.76	0.68
2:P:149:GLN:HA	2:P:152:GLN:HE21	1.58	0.68
2:P:266:TYR:CE1	2:P:290:VAL:HG11	2.29	0.68
2:P:296:GLN:O	2:P:300:LYS:NZ	2.20	0.68
2:P:569:VAL:HG22	2:P:574:VAL:HG22	1.76	0.68
2:Q:329:LYS:HD3	2:Q:343:ASP:CA	2.21	0.68
2:Q:560:ASN:OD1	2:Q:657:VAL:HG13	1.94	0.68
2:Q:921:THR:HG23	2:Q:927:TYR:CE2	2.22	0.68
2:R:728:ARG:CZ	2:R:796:VAL:HG12	2.23	0.68
2:S:178:SER:HA	2:S:181:LEU:HD12	1.75	0.68
1:L:354:GLU:OE1	1:L:527:ARG:NH1	2.27	0.68
2:M:105:LYS:NZ	2:M:213:CYS:HB3	2.09	0.68
2:M:266:TYR:CZ	2:M:290:VAL:HG11	2.28	0.68
2:M:291:GLU:O	2:M:295:GLN:HG3	1.94	0.68
2:N:256:LEU:HA	2:N:259:GLN:CD	2.14	0.68
2:O:112:PRO:HD2	2:O:221:ASP:HB3	1.75	0.68
2:O:890:GLU:OE2	2:O:891:GLU:HG3	1.94	0.68
2:P:153:TRP:CE2	2:P:157:LEU:HD11	2.28	0.68
2:P:180:ALA:HA	2:P:194:GLN:CD	2.14	0.68
2:Q:177:PHE:CE1	2:Q:181:LEU:HD11	2.29	0.68
2:Q:197:SER:O	2:Q:201:GLU:HG2	1.94	0.68
2:Q:315:GLN:O	2:Q:325:LYS:NZ	2.22	0.68
2:Q:438:GLN:HA	2:Q:441:PHE:CE1	2.28	0.68
2:R:130:ASN:HA	2:R:153:TRP:CZ2	2.29	0.68
2:R:537:ALA:HA	2:R:543:ARG:NH2	2.07	0.68
2:R:578:ARG:O	2:R:578:ARG:HD3	1.93	0.68
2:S:538:TYR:OH	2:S:656:ILE:O	2.04	0.68
1:G:324:THR:O	1:G:327:ARG:NE	2.27	0.68
2:M:231:TRP:CZ3	2:M:261:ILE:HA	2.29	0.68
2:M:297:TYR:O	2:M:300:LYS:HG2	1.92	0.68
2:M:471:GLU:O	2:M:476:ARG:NH2	2.27	0.68
2:M:495:SER:HB3	2:M:634:ALA:HB2	1.75	0.68
2:M:625:LEU:O	2:M:629:ILE:HG13	1.94	0.68
2:M:885:LYS:CE	2:M:888:SER:HA	2.24	0.68
2:N:233:VAL:O	2:N:237:ILE:HG12	1.94	0.68
2:O:177:PHE:CD2	2:O:181:LEU:HD23	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:539:MET:HE3	2:O:550:TRP:CZ2	2.29	0.68
2:O:543:ARG:NH2	2:P:471:GLU:HG2	2.08	0.68
2:P:332:THR:HB	2:P:336:MET:CE	2.24	0.68
2:P:436:TYR:HB3	2:Q:255:ARG:NH2	2.09	0.68
2:Q:195:ASP:O	2:Q:198:GLU:HG3	1.94	0.68
2:Q:506:GLY:HA2	2:Q:738:TRP:CZ2	2.29	0.68
2:Q:536:VAL:HG13	2:Q:541:VAL:HG12	1.74	0.68
2:Q:747:ASN:O	2:Q:751:GLN:HG3	1.93	0.68
2:Q:885:LYS:CE	2:Q:888:SER:HA	2.23	0.68
2:R:311:LYS:HE2	2:R:325:LYS:NZ	2.09	0.68
2:R:478:CYS:O	2:R:482:LEU:HG	1.93	0.68
2:R:581:ARG:HH22	2:S:755:ARG:HH22	1.42	0.68
2:R:645:ALA:O	2:R:649:VAL:HG12	1.92	0.68
2:S:153:TRP:N	2:S:206:ARG:HH21	1.92	0.68
2:S:580:SER:HB3	2:S:590:LYS:CD	2.20	0.68
1:E:401:LEU:HD11	1:E:459:LEU:CD2	2.24	0.68
1:H:611:GLY:O	1:H:639:ARG:NH2	2.25	0.68
1:H:730:LEU:HG	1:H:772:PHE:CZ	2.29	0.68
1:I:415:GLU:O	1:I:796:HIS:NE2	2.27	0.68
2:M:278:LYS:HA	2:M:283:LEU:HD21	1.74	0.68
2:N:69:ARG:HG2	2:N:300:LYS:O	1.93	0.68
2:N:114:LYS:HE3	2:O:239:LYS:HA	1.74	0.68
2:N:153:TRP:NE1	2:N:157:LEU:HD21	2.09	0.68
2:N:254:LEU:HD22	2:N:298:LEU:HD21	1.76	0.68
2:N:568:GLY:O	2:N:575:GLN:N	2.21	0.68
2:N:609:SER:O	2:N:618:ASP:HA	1.93	0.68
2:O:107:LEU:HG	2:O:132:MET:CE	2.23	0.68
2:O:131:LYS:HD3	2:P:183:LEU:CD1	2.24	0.68
2:O:443:MET:SD	2:O:489:ASN:HB3	2.34	0.68
2:O:716:TRP:CE3	2:O:717:LEU:HD12	2.29	0.68
2:P:574:VAL:CG2	2:P:774:ILE:HG21	2.24	0.68
2:P:817:PHE:CE2	2:P:821:ILE:HD11	2.28	0.68
2:Q:462:THR:HB	2:Q:465:TYR:HD1	1.57	0.68
2:Q:477:ASN:O	2:Q:480:ILE:HG12	1.94	0.68
2:R:173:LYS:CD	2:R:175:GLU:H	2.05	0.68
2:R:524:ASP:N	2:R:527:LYS:HE3	2.09	0.68
2:R:535:TYR:CG	2:R:539:MET:HE1	2.29	0.68
2:S:578:ARG:HH21	2:S:590:LYS:HD2	1.59	0.68
1:D:161:ALA:O	1:D:164:CYS:N	2.26	0.68
1:F:220:ARG:NH2	1:F:254:PHE:O	2.27	0.68
1:J:635:GLU:N	1:J:635:GLU:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:443:MET:SD	2:M:489:ASN:HB3	2.34	0.68
2:M:632:ILE:HG12	2:M:646:PHE:HE2	1.59	0.68
2:N:201:GLU:HG3	2:N:205:LYS:CE	2.21	0.68
2:N:285:GLU:OE2	2:N:286:ARG:HG2	1.93	0.68
2:N:599:LEU:HD12	2:N:709:ALA:HB1	1.75	0.68
2:N:852:HIS:HB3	2:N:886:LEU:CD1	2.24	0.68
2:O:293:LEU:HA	2:O:296:GLN:CG	2.23	0.68
2:P:198:GLU:HA	2:P:201:GLU:HG3	1.75	0.68
2:P:345:ARG:HH22	2:P:369:ASN:ND2	1.92	0.68
2:R:105:LYS:HG3	2:R:213:CYS:SG	2.34	0.68
2:R:223:ILE:HB	2:R:226:GLN:O	1.94	0.68
2:R:612:ALA:CB	2:R:656:ILE:HD13	2.24	0.68
2:R:612:ALA:HB1	2:R:656:ILE:HD13	1.75	0.68
2:R:716:TRP:CE3	2:R:717:LEU:HD22	2.28	0.68
2:S:87:ASN:HB3	2:S:91:LYS:NZ	2.09	0.68
2:S:103:ASN:O	2:S:214:LYS:N	2.26	0.68
2:S:272:THR:HA	2:S:275:GLU:CD	2.13	0.68
2:S:587:GLY:O	2:S:919:SER:HB2	1.93	0.68
1:E:116:VAL:HG22	1:E:278:GLU:OE2	1.92	0.67
1:G:431:GLU:OE2	1:G:435:HIS:N	2.26	0.67
1:K:304:THR:HG22	1:K:308:GLN:OE1	1.94	0.67
2:M:381:GLN:NE2	2:N:305:GLN:OE1	2.26	0.67
2:M:446:LEU:HD21	2:M:486:VAL:CG1	2.23	0.67
2:N:159:GLN:HA	2:N:162:ARG:NH1	2.08	0.67
2:N:231:TRP:CD1	2:N:264:LYS:HG3	2.28	0.67
2:O:112:PRO:HA	2:O:115:LEU:CD1	2.21	0.67
2:O:136:LYS:HG2	2:O:211:LEU:CD1	2.24	0.67
2:O:351:ALA:HB2	2:O:387:TYR:OH	1.94	0.67
2:O:611:VAL:HB	2:O:617:MET:N	2.09	0.67
2:P:159:GLN:HA	2:P:162:ARG:NH1	2.08	0.67
2:P:497:PHE:HD1	2:P:729:PRO:HB3	1.57	0.67
2:Q:817:PHE:CZ	2:Q:821:ILE:HD11	2.28	0.67
2:R:560:ASN:OD1	2:R:657:VAL:HG13	1.94	0.67
2:S:363:ASP:HB3	2:S:367:TYR:HE2	1.56	0.67
2:S:429:ILE:HG23	2:S:434:LEU:HB2	1.76	0.67
2:S:459:ASP:OD1	2:S:461:ASN:N	2.21	0.67
1:H:24:SER:O	1:H:28:ARG:NH2	2.28	0.67
2:M:151:GLU:N	2:M:151:GLU:OE1	2.27	0.67
2:N:282:ARG:HD3	2:N:282:ARG:H	1.58	0.67
2:N:358:LEU:HG	2:N:364:ALA:HB2	1.75	0.67
2:O:117:ARG:HH22	2:P:171:GLU:C	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:173:LYS:CD	2:O:175:GLU:HB2	2.22	0.67
2:O:817:PHE:CE2	2:O:821:ILE:HD11	2.28	0.67
2:O:819:LYS:O	2:O:823:ILE:HG12	1.93	0.67
2:P:73:PHE:O	2:P:308:ILE:HG22	1.95	0.67
2:Q:352:VAL:O	2:Q:356:LEU:HB2	1.95	0.67
2:Q:776:ARG:HB2	2:Q:857:PRO:HG3	1.75	0.67
2:Q:776:ARG:NH2	2:Q:861:ILE:HG12	2.09	0.67
2:R:496:LYS:HA	2:R:499:GLN:CD	2.14	0.67
2:R:831:ASP:CB	2:R:833:LYS:HD3	2.25	0.67
2:S:147:ARG:NH2	2:S:149:GLN:HE22	1.92	0.67
2:S:367:TYR:HE1	2:S:468:PRO:HD3	1.58	0.67
2:S:760:ALA:O	2:S:768:GLN:HB3	1.93	0.67
1:A:214:ILE:HD11	1:A:240:LEU:CD1	2.25	0.67
1:E:69:PRO:HD3	1:E:293:TRP:CD1	2.29	0.67
1:K:178:ASP:OD2	1:K:324:THR:N	2.27	0.67
2:M:123:VAL:CG2	2:M:164:LEU:HD21	2.24	0.67
2:N:154:GLN:CA	2:N:157:LEU:HD12	2.21	0.67
2:N:608:LEU:HG	2:N:618:ASP:OD1	1.94	0.67
2:N:921:THR:HG23	2:N:927:TYR:CE2	2.28	0.67
2:O:116:PRO:HB2	2:O:119:GLU:HG2	1.77	0.67
2:O:314:LEU:HD13	2:O:372:LEU:CB	2.24	0.67
2:O:751:GLN:CD	2:O:811:VAL:HG11	2.12	0.67
2:O:815:ASP:C	2:O:819:LYS:HE2	2.14	0.67
2:P:218:ILE:CD1	2:P:248:VAL:HG22	2.13	0.67
2:P:494:LEU:O	2:P:498:LEU:HG	1.94	0.67
2:P:588:TYR:OH	2:P:761:GLU:N	2.26	0.67
2:Q:333:GLU:HB3	2:Q:336:MET:HE2	1.77	0.67
2:R:319:GLU:HG2	2:R:320:LYS:N	2.10	0.67
2:R:443:MET:HB3	2:R:500:MET:HE3	1.77	0.67
2:R:872:THR:O	2:R:876:LYS:HG2	1.94	0.67
2:S:588:TYR:OH	2:S:761:GLU:N	2.27	0.67
2:S:823:ILE:O	2:S:826:GLU:HG3	1.94	0.67
1:C:364:ASN:OD1	1:C:367:GLN:NE2	2.28	0.67
1:C:533:ALA:O	1:C:689:GLN:NE2	2.27	0.67
1:D:431:GLU:OE2	1:D:435:HIS:N	2.28	0.67
1:E:527:ARG:NH1	1:E:704:GLU:OE2	2.28	0.67
2:M:833:LYS:CE	2:M:838:THR:HB	2.24	0.67
2:M:836:LYS:O	2:M:840:PRO:HB3	1.94	0.67
2:N:173:LYS:HZ3	2:N:175:GLU:HB2	1.58	0.67
2:N:386:PHE:CZ	2:N:413:VAL:HG13	2.28	0.67
2:N:438:GLN:HA	2:N:441:PHE:CE1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:262:ARG:HD2	2:P:294:GLU:OE2	1.94	0.67
2:P:601:LYS:HA	2:P:604:MET:SD	2.34	0.67
2:Q:561:SER:HB3	2:Q:562:PRO:HD3	1.76	0.67
2:Q:748:VAL:HA	2:Q:811:VAL:CG1	2.22	0.67
2:Q:791:SER:HB2	2:Q:839:HIS:NE2	2.09	0.67
2:R:85:PHE:O	2:R:89:VAL:HG23	1.93	0.67
2:R:120:PRO:HG2	2:R:123:VAL:CG2	2.24	0.67
2:R:443:MET:HE1	2:R:496:LYS:HD3	1.75	0.67
2:R:477:ASN:O	2:R:480:ILE:HG22	1.94	0.67
2:S:137:LEU:HD11	2:S:210:ILE:HD13	1.75	0.67
2:S:214:LYS:O	2:S:245:LYS:HD2	1.95	0.67
2:S:466:LEU:HD12	2:S:731:ALA:HB1	1.75	0.67
1:B:517:LEU:HB3	1:B:695:LYS:HE2	1.76	0.67
1:F:741:MET:SD	1:F:741:MET:N	2.68	0.67
1:I:527:ARG:HG2	1:I:702:ALA:HB3	1.76	0.67
1:K:517:LEU:HD11	1:K:696:MET:CE	2.25	0.67
1:L:494:HIS:HD1	1:L:795:PHE:HD1	1.42	0.67
2:M:111:ASP:O	2:M:115:LEU:HG	1.94	0.67
2:M:283:LEU:HD22	2:M:286:ARG:HH22	1.59	0.67
2:M:562:PRO:O	2:M:566:LYS:NZ	2.23	0.67
2:N:320:LYS:O	2:N:320:LYS:HG3	1.95	0.67
2:N:823:ILE:HG23	2:N:827:LYS:HZ3	1.59	0.67
2:O:374:GLN:HB3	2:O:378:LEU:HD23	1.75	0.67
2:O:791:SER:HB2	2:O:839:HIS:CE1	2.30	0.67
2:P:495:SER:HB2	2:P:634:ALA:HB2	1.75	0.67
2:P:539:MET:CE	2:P:553:ARG:HB3	2.25	0.67
2:Q:131:LYS:NZ	2:R:190:SER:HA	2.09	0.67
2:R:126:THR:HG21	2:R:160:LEU:HD21	1.76	0.67
2:R:221:ASP:OD1	2:R:222:ASP:N	2.27	0.67
2:R:658:PRO:HB2	2:R:660:TRP:CD1	2.28	0.67
2:S:83:THR:O	2:S:87:ASN:ND2	2.28	0.67
2:S:609:SER:HB2	2:S:619:PHE:HB2	1.76	0.67
1:A:556:ARG:NH1	1:A:674:GLU:O	2.27	0.67
1:B:44:LEU:HD11	1:B:48:VAL:HB	1.76	0.67
1:C:20:LEU:HD23	1:C:290:ARG:NH2	2.10	0.67
1:F:286:GLU:OE2	1:F:290:ARG:NH2	2.28	0.67
1:G:85:LYS:HA	1:G:85:LYS:HE3	1.77	0.67
1:J:165:TRP:HB2	1:J:303:LEU:HD21	1.75	0.67
2:M:192:GLY:HA3	2:S:128:ARG:HG2	1.75	0.67
2:O:816:GLU:HB3	2:O:820:LYS:NZ	2.09	0.67
2:P:85:PHE:O	2:P:88:SER:OG	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:303:PRO:HB3	2:P:305:GLN:NE2	2.09	0.67
2:P:429:ILE:CD1	2:P:434:LEU:HD12	2.24	0.67
2:P:622:VAL:O	2:P:626:ILE:HG13	1.93	0.67
2:P:745:LEU:HD13	2:P:748:VAL:HG21	1.77	0.67
2:Q:129:LEU:O	2:Q:133:VAL:HG23	1.95	0.67
2:Q:265:GLN:O	2:Q:268:ASN:HB2	1.95	0.67
2:Q:495:SER:HB3	2:Q:634:ALA:HB2	1.76	0.67
2:R:415:ASN:HA	2:R:418:ARG:CG	2.25	0.67
2:R:515:VAL:HG21	2:R:535:TYR:CE1	2.30	0.67
2:S:254:LEU:HD23	2:S:257:TYR:CD2	2.29	0.67
2:S:760:ALA:HA	2:S:768:GLN:CG	2.24	0.67
1:D:468:ALA:HB3	1:D:497:TYR:HD1	1.59	0.67
1:E:90:ILE:HG13	1:E:98:TRP:CZ3	2.29	0.67
1:F:425:ARG:O	1:F:435:HIS:NE2	2.26	0.67
2:N:536:VAL:HG12	2:N:541:VAL:HG11	1.75	0.67
2:N:782:PHE:O	2:N:786:VAL:HG23	1.94	0.67
2:O:366:MET:SD	2:O:467:ARG:NE	2.68	0.67
2:O:443:MET:HE3	2:O:443:MET:O	1.94	0.67
2:P:160:LEU:HD22	2:P:203:LEU:HD11	1.77	0.67
2:P:415:ASN:CA	2:P:418:ARG:HG2	2.22	0.67
2:P:490:CYS:HB3	2:P:729:PRO:CG	2.25	0.67
2:P:645:ALA:O	2:P:649:VAL:HG12	1.94	0.67
2:R:105:LYS:HZ2	2:R:211:LEU:CD1	2.08	0.67
2:R:722:GLU:N	2:R:722:GLU:OE1	2.27	0.67
2:R:758:ARG:HB2	2:R:930:ASP:OD1	1.95	0.67
2:R:864:SER:HB3	2:R:867:ALA:CB	2.25	0.67
2:S:584:MET:SD	2:S:921:THR:OG1	2.48	0.67
1:A:333:SER:O	1:A:336:SER:OG	2.13	0.67
1:E:46:ASP:O	1:E:50:LYS:NZ	2.27	0.67
1:E:606:VAL:HG22	1:E:652:PRO:HA	1.77	0.67
1:J:651:ARG:O	1:J:655:LEU:HD23	1.95	0.67
2:M:446:LEU:CD2	2:M:486:VAL:HG12	2.24	0.67
2:M:518:LEU:HD22	2:M:531:LEU:CD1	2.25	0.67
2:M:782:PHE:O	2:M:786:VAL:HG23	1.95	0.67
2:M:801:TYR:O	2:M:827:LYS:HD2	1.95	0.67
2:N:799:ARG:HD2	2:N:800:GLU:N	2.09	0.67
2:N:856:PHE:CB	2:N:861:ILE:HD11	2.24	0.67
2:O:297:TYR:HA	2:O:300:LYS:NZ	2.08	0.67
2:O:422:TYR:OH	2:O:436:TYR:O	2.12	0.67
2:P:41:LEU:O	2:P:44:SER:OG	2.11	0.67
2:P:105:LYS:CE	2:P:211:LEU:HB3	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:262:ARG:HH11	2:P:294:GLU:HG3	1.60	0.67
2:Q:333:GLU:HG3	2:Q:335:SER:H	1.59	0.67
2:Q:369:ASN:OD1	2:Q:373:LYS:NZ	2.28	0.67
2:Q:412:SER:HB3	2:Q:415:ASN:CG	2.15	0.67
2:Q:575:GLN:HG2	2:Q:617:MET:HE2	1.77	0.67
2:R:241:PHE:O	2:R:246:LEU:HD11	1.94	0.67
2:R:389:LYS:HB3	2:R:416:LEU:HD12	1.77	0.67
2:S:74:VAL:CG1	2:S:251:THR:HG23	2.24	0.67
2:S:234:LEU:O	2:S:237:ILE:HB	1.95	0.67
2:S:482:LEU:HD12	2:S:483:ALA:N	2.10	0.67
2:S:816:GLU:HB3	2:S:820:LYS:NZ	2.09	0.67
2:S:872:THR:HG22	2:S:892:TRP:HE1	1.59	0.67
1:J:218:LEU:HA	1:J:221:VAL:HG12	1.76	0.67
1:L:556:ARG:NH1	1:L:560:LEU:HD21	2.10	0.67
2:M:74:VAL:HA	2:M:308:ILE:CG2	2.24	0.67
2:M:108:PRO:HB2	2:M:128:ARG:NE	2.10	0.67
2:M:469:GLN:HE22	2:S:543:ARG:CD	2.08	0.67
2:M:757:TYR:HB2	2:M:760:ALA:HB2	1.76	0.67
2:N:254:LEU:HD23	2:N:257:TYR:CD2	2.29	0.67
2:N:776:ARG:O	2:N:780:LEU:HG	1.95	0.67
2:O:427:SER:CB	2:P:295:GLN:HB2	2.24	0.67
2:O:511:PHE:HB2	2:O:535:TYR:CZ	2.29	0.67
2:P:493:SER:HB2	2:P:496:LYS:HB2	1.76	0.67
2:P:593:ILE:HG12	2:P:605:ALA:HB2	1.76	0.67
2:R:386:PHE:CZ	2:R:390:LYS:HE2	2.30	0.67
2:R:858:ILE:HD12	2:R:915:THR:HA	1.76	0.67
2:S:529:GLU:HA	2:S:532:ILE:HG12	1.75	0.67
2:S:730:SER:O	2:S:734:ILE:HD12	1.95	0.67
1:E:659:TRP:O	1:E:669:ARG:NH1	2.28	0.67
1:F:55:TYR:CZ	1:G:672:TYR:HB3	2.30	0.67
1:J:351:ARG:NH1	1:J:413:CYS:O	2.28	0.67
1:K:40:GLN:OE1	1:K:104:ARG:NH2	2.28	0.67
1:K:153:GLN:NE2	1:K:158:SER:O	2.28	0.67
2:M:865:VAL:O	2:M:869:ASN:ND2	2.28	0.67
2:N:41:LEU:O	2:N:45:ILE:HD12	1.95	0.67
2:N:85:PHE:O	2:N:88:SER:OG	2.13	0.67
2:N:234:LEU:O	2:N:237:ILE:HB	1.93	0.67
2:O:457:ASP:HB2	2:O:475:LEU:HD13	1.76	0.67
2:O:600:ALA:HB2	2:O:913:THR:N	2.10	0.67
2:O:815:ASP:O	2:O:819:LYS:HG3	1.95	0.67
2:Q:612:ALA:HB3	2:Q:656:ILE:HD13	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:496:LYS:HA	2:R:499:GLN:OE1	1.95	0.67
2:R:712:LYS:CE	2:R:849:PRO:HB3	2.25	0.67
2:S:643:THR:HG23	2:S:710:ILE:HD11	1.77	0.67
2:S:867:ALA:O	2:S:870:LYS:HG3	1.95	0.67
1:B:216:GLU:OE2	1:B:263:LYS:NZ	2.15	0.66
1:G:286:GLU:OE1	1:G:290:ARG:NH2	2.28	0.66
1:I:472:GLU:OE2	1:I:501:GLU:N	2.28	0.66
1:K:717:ARG:N	1:K:721:GLU:OE1	2.28	0.66
2:M:69:ARG:HD3	2:M:300:LYS:O	1.95	0.66
2:M:304:VAL:HG22	2:S:381:GLN:OE1	1.95	0.66
2:N:271:LYS:O	2:N:274:LEU:N	2.28	0.66
2:N:486:VAL:CG2	2:N:731:ALA:HB2	2.23	0.66
2:N:773:LYS:HG3	2:N:859:GLY:O	1.94	0.66
2:N:787:LEU:HD12	2:N:839:HIS:CE1	2.30	0.66
2:O:444:ASP:O	2:O:542:GLY:HA2	1.94	0.66
2:O:575:GLN:OE1	2:O:617:MET:HG2	1.93	0.66
2:Q:421:LEU:HA	2:Q:424:SER:HB2	1.77	0.66
2:Q:518:LEU:HD11	2:Q:660:TRP:CE3	2.30	0.66
2:R:154:GLN:HA	2:R:157:LEU:CD1	2.21	0.66
2:R:311:LYS:HE3	2:R:315:GLN:CB	2.24	0.66
2:S:328:ILE:O	2:S:329:LYS:HB2	1.95	0.66
2:S:560:ASN:OD1	2:S:657:VAL:HG13	1.95	0.66
2:S:745:LEU:HA	2:S:748:VAL:HG22	1.77	0.66
1:C:148:LEU:HD13	1:C:757:LEU:HD23	1.77	0.66
1:G:178:ASP:OD1	1:G:181:LYS:NZ	2.20	0.66
1:L:149:HIS:O	1:L:757:LEU:HD21	1.95	0.66
2:M:593:ILE:HD11	2:M:601:LYS:O	1.95	0.66
2:N:153:TRP:O	2:N:157:LEU:HG	1.95	0.66
2:N:529:GLU:O	2:N:532:ILE:HG12	1.95	0.66
2:N:540:SER:HB3	2:N:543:ARG:O	1.96	0.66
2:O:200:PHE:CE2	2:O:246:LEU:HD21	2.29	0.66
2:O:770:ASN:N	2:O:773:LYS:HD2	2.10	0.66
2:P:168:THR:HB	2:Q:174:PRO:HG3	1.75	0.66
2:P:414:PRO:O	2:P:418:ARG:HG2	1.96	0.66
2:P:510:ILE:O	2:P:514:PHE:HB2	1.95	0.66
2:Q:231:TRP:HB2	2:Q:260:LEU:HD21	1.75	0.66
2:Q:318:GLY:HA2	2:Q:323:ALA:CB	2.23	0.66
2:Q:429:ILE:HD12	2:Q:434:LEU:HD12	1.76	0.66
2:R:569:VAL:HG22	2:R:574:VAL:CG2	2.25	0.66
2:S:540:SER:HB3	2:S:543:ARG:HG3	1.77	0.66
1:B:418:LEU:HB2	1:B:463:ILE:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:564:TRP:CE2	1:C:600:ILE:HD12	2.30	0.66
1:F:261:ASP:OD1	1:F:262:ASP:N	2.26	0.66
1:G:333:SER:O	1:G:336:SER:OG	2.13	0.66
1:G:487:LEU:O	1:G:490:SER:OG	2.12	0.66
1:I:481:CYS:HB3	1:I:485:ARG:HH12	1.60	0.66
2:M:741:PHE:CE2	2:M:745:LEU:HD11	2.31	0.66
2:M:873:SER:CB	2:M:876:LYS:HE3	2.26	0.66
2:N:238:ARG:HD3	2:N:301:LEU:HD21	1.77	0.66
2:N:506:GLY:HA2	2:N:738:TRP:CZ2	2.30	0.66
2:P:299:LEU:HD12	2:P:300:LYS:N	2.11	0.66
2:P:322:LYS:O	2:P:322:LYS:HD2	1.96	0.66
2:Q:333:GLU:HB3	2:Q:336:MET:CE	2.25	0.66
2:Q:498:LEU:HD12	2:Q:630:ALA:HA	1.76	0.66
2:Q:506:GLY:O	2:Q:510:ILE:HG12	1.95	0.66
2:Q:759:ASN:OD1	2:Q:931:THR:HG23	1.95	0.66
2:R:130:ASN:HA	2:R:153:TRP:CH2	2.31	0.66
2:R:256:LEU:HD12	2:R:257:TYR:N	2.10	0.66
2:S:70:ASN:HA	2:S:306:LYS:HZ1	1.61	0.66
2:S:448:LYS:O	2:S:452:THR:HG23	1.95	0.66
2:S:639:ARG:HA	2:S:714:GLU:OE2	1.95	0.66
2:S:886:LEU:HD22	2:S:887:LEU:HG	1.76	0.66
1:D:784:ALA:O	1:D:787:ASN:N	2.28	0.66
1:J:322:THR:N	1:J:325:GLU:OE1	2.29	0.66
1:K:95:PHE:O	1:K:99:GLN:NE2	2.27	0.66
1:L:214:ILE:CD1	1:L:291:LEU:HD22	2.26	0.66
2:M:261:ILE:HG21	2:M:294:GLU:HG2	1.77	0.66
2:M:265:GLN:HB3	2:M:290:VAL:HG13	1.77	0.66
2:M:855:ILE:HB	2:M:886:LEU:HD21	1.78	0.66
2:N:274:LEU:HD12	2:N:275:GLU:N	2.10	0.66
2:P:112:PRO:HA	2:P:115:LEU:CD2	2.24	0.66
2:P:440:ARG:O	2:P:445:SER:OG	2.02	0.66
2:P:591:PHE:CZ	2:P:593:ILE:HA	2.31	0.66
2:Q:497:PHE:CE1	2:Q:734:ILE:HG12	2.30	0.66
2:Q:758:ARG:HD3	2:Q:928:ASP:O	1.95	0.66
2:R:152:GLN:NE2	2:R:206:ARG:HD2	2.11	0.66
2:S:727:ILE:CD1	2:S:841:LEU:HD21	2.18	0.66
2:S:810:PRO:HB3	2:S:813:SER:O	1.95	0.66
1:F:556:ARG:HH12	1:F:560:LEU:HD21	1.61	0.66
1:I:178:ASP:OD2	1:I:324:THR:HG23	1.96	0.66
2:M:107:LEU:HG	2:M:132:MET:CE	2.24	0.66
2:M:218:ILE:O	2:M:249:VAL:HG12	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:376:VAL:HG12	2:M:380:MET:HE2	1.76	0.66
2:N:259:GLN:HA	2:N:262:ARG:CG	2.26	0.66
2:N:460:PHE:HB3	2:N:512:ASN:ND2	2.10	0.66
2:N:540:SER:OG	2:N:543:ARG:NH1	2.29	0.66
2:P:355:GLY:CA	2:P:413:VAL:HG12	2.26	0.66
2:P:737:VAL:HG12	2:P:789:GLU:HB2	1.77	0.66
2:P:751:GLN:OE1	2:P:811:VAL:HG12	1.88	0.66
2:P:816:GLU:HB3	2:P:820:LYS:NZ	2.11	0.66
2:Q:574:VAL:HG23	2:Q:775:MET:CE	2.26	0.66
2:R:443:MET:HE1	2:R:496:LYS:CB	2.24	0.66
2:R:487:SER:O	2:R:491:GLN:HG2	1.96	0.66
2:R:501:LEU:CD1	2:R:734:ILE:HG23	2.25	0.66
2:R:506:GLY:O	2:R:510:ILE:HG12	1.96	0.66
2:S:217:LEU:HA	2:S:247:VAL:HG13	1.77	0.66
2:S:567:ILE:HD12	2:S:753:LYS:HB3	1.78	0.66
2:S:645:ALA:O	2:S:649:VAL:HG22	1.96	0.66
2:S:713:VAL:HG22	2:S:849:PRO:CG	2.25	0.66
1:G:650:LYS:HE2	1:H:595:GLU:OE2	1.95	0.66
1:I:537:THR:HG22	1:I:726:ARG:HH11	1.60	0.66
1:K:743:ILE:O	1:K:789:ASN:ND2	2.29	0.66
1:L:29:VAL:O	1:L:33:VAL:HG23	1.96	0.66
2:M:862:ASN:N	2:M:871:GLU:OE2	2.28	0.66
2:N:105:LYS:HG2	2:N:213:CYS:HB3	1.77	0.66
2:N:130:ASN:HA	2:N:153:TRP:HZ2	1.58	0.66
2:O:657:VAL:HG13	2:O:658:PRO:HD2	1.78	0.66
2:P:173:LYS:CD	2:P:174:PRO:HD2	2.24	0.66
2:P:506:GLY:HA3	2:P:550:TRP:CZ2	2.31	0.66
2:Q:134:SER:O	2:Q:138:LYS:HG2	1.96	0.66
2:R:747:ASN:OD1	2:R:748:VAL:N	2.29	0.66
2:S:658:PRO:HB2	2:S:660:TRP:CZ3	2.31	0.66
2:M:122:LEU:HD11	2:M:240:PHE:CG	2.30	0.66
2:M:383:LEU:HD11	2:M:387:TYR:CE2	2.30	0.66
2:M:412:SER:HB3	2:M:415:ASN:ND2	2.11	0.66
2:M:426:LEU:HD12	2:M:427:SER:N	2.10	0.66
2:N:35:LYS:O	2:N:38:ARG:HG3	1.95	0.66
2:N:317:VAL:CG2	2:N:372:LEU:HD21	2.25	0.66
2:N:333:GLU:HB2	2:N:336:MET:CE	2.25	0.66
2:N:418:ARG:HG3	2:N:485:GLN:NE2	2.10	0.66
2:N:573:MET:CB	2:N:621:SER:HA	2.25	0.66
2:N:658:PRO:HB2	2:N:660:TRP:CZ3	2.30	0.66
2:O:386:PHE:HA	2:O:389:LYS:CE	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:555:CYS:HB3	2:O:619:PHE:CE2	2.31	0.66
2:O:720:VAL:HG22	2:O:844:LEU:CD2	2.18	0.66
2:O:723:ILE:HD11	2:O:844:LEU:HD21	1.77	0.66
2:P:205:LYS:CA	2:P:245:LYS:HE2	2.23	0.66
2:P:376:VAL:O	2:P:380:MET:HG2	1.95	0.66
2:P:385:ASP:O	2:P:389:LYS:HG2	1.95	0.66
2:P:494:LEU:HD13	2:P:720:VAL:CG1	2.26	0.66
2:Q:857:PRO:CB	2:Q:914:ILE:HD11	2.25	0.66
2:R:156:HIS:HB3	2:R:203:LEU:HD23	1.76	0.66
1:B:84:GLU:O	1:B:86:GLY:N	2.28	0.66
1:I:143:ILE:O	1:I:147:CYS:N	2.28	0.66
2:M:181:LEU:CD2	2:S:127:ALA:HA	2.24	0.66
2:M:644:ASN:O	2:M:648:LYS:HG2	1.96	0.66
2:N:165:HIS:O	2:N:168:THR:OG1	2.08	0.66
2:N:218:ILE:HD11	2:N:248:VAL:CG2	2.24	0.66
2:N:412:SER:O	2:N:416:LEU:HG	1.95	0.66
2:N:450:ILE:HG23	2:N:466:LEU:HD21	1.78	0.66
2:N:591:PHE:CE2	2:N:920:SER:HB3	2.31	0.66
2:O:40:GLN:HA	2:O:43:GLU:OE1	1.94	0.66
2:O:107:LEU:HA	2:O:132:MET:CE	2.25	0.66
2:O:117:ARG:NH1	2:O:118:HIS:HB2	2.11	0.66
2:P:363:ASP:O	2:P:366:MET:HG2	1.95	0.66
2:P:512:ASN:HA	2:P:516:THR:HG21	1.78	0.66
2:Q:784:HIS:HA	2:Q:817:PHE:CE1	2.30	0.66
2:Q:810:PRO:HG2	2:Q:817:PHE:HB2	1.77	0.66
2:Q:815:ASP:HA	2:Q:870:LYS:CE	2.26	0.66
2:R:228:ASP:OD2	2:S:268:ASN:ND2	2.24	0.66
2:R:491:GLN:OE1	2:R:728:ARG:HA	1.96	0.66
2:R:732:LEU:HD12	2:R:733:LEU:N	2.11	0.66
2:R:738:TRP:CH2	2:R:742:TYR:HB2	2.31	0.66
2:S:85:PHE:CE2	2:S:310:LEU:HD21	2.30	0.66
2:S:782:PHE:O	2:S:786:VAL:HG23	1.95	0.66
1:F:673:VAL:O	1:G:55:TYR:OH	2.14	0.66
2:M:117:ARG:HH21	2:N:169:ASP:C	1.99	0.66
2:M:353:ARG:HG3	2:M:359:ARG:O	1.96	0.66
2:M:716:TRP:HE1	2:M:847:SER:HB2	1.61	0.66
2:M:885:LYS:NZ	2:M:888:SER:HA	2.10	0.66
2:N:125:VAL:O	2:N:129:LEU:HG	1.96	0.66
2:N:852:HIS:HB3	2:N:886:LEU:HD11	1.78	0.66
2:O:255:ARG:O	2:O:258:SER:OG	2.13	0.66
2:O:571:LEU:CD1	2:O:745:LEU:HB2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:605:ALA:HB3	2:O:650:ILE:HG23	1.75	0.66
2:O:736:LYS:C	2:O:789:GLU:HG2	2.16	0.66
2:P:377:ARG:HA	2:P:380:MET:HG2	1.77	0.66
2:Q:737:VAL:HG12	2:Q:789:GLU:HB2	1.77	0.66
2:Q:741:PHE:HE1	2:Q:782:PHE:CA	2.09	0.66
2:Q:763:GLY:O	2:Q:862:ASN:HA	1.94	0.66
2:R:831:ASP:HB2	2:R:833:LYS:HD3	1.78	0.66
2:S:286:ARG:O	2:S:290:VAL:HG23	1.95	0.66
2:S:412:SER:HB3	2:S:415:ASN:CG	2.16	0.66
2:S:539:MET:SD	2:S:541:VAL:HB	2.36	0.66
2:S:584:MET:HE1	2:S:589:LYS:CA	2.24	0.66
1:F:218:LEU:HA	1:F:221:VAL:HG22	1.78	0.66
2:M:262:ARG:HB3	2:M:266:TYR:HE2	1.60	0.66
2:M:762:HIS:HA	2:M:918:ASN:HD21	1.60	0.66
2:N:585:PRO:HG3	2:N:758:ARG:HE	1.60	0.66
2:N:704:THR:HG23	2:N:705:GLU:N	2.11	0.66
2:O:370:GLU:O	2:O:374:GLN:NE2	2.29	0.66
2:O:539:MET:CG	2:O:550:TRP:HE1	2.09	0.66
2:O:539:MET:HG3	2:O:550:TRP:HE1	1.61	0.66
2:O:638:GLU:O	2:O:642:ILE:HG13	1.96	0.66
2:O:833:LYS:NZ	2:O:838:THR:HG22	2.11	0.66
2:P:131:LYS:CE	2:Q:192:GLY:HA2	2.26	0.66
2:P:225:THR:HA	2:Q:297:TYR:CE1	2.31	0.66
2:P:303:PRO:HB2	2:P:306:LYS:HG3	1.76	0.66
2:Q:196:LEU:HA	2:Q:199:ILE:HD12	1.76	0.66
2:Q:265:GLN:HE22	2:Q:294:GLU:CA	2.08	0.66
2:Q:330:VAL:HG22	2:Q:331:LYS:H	1.61	0.66
2:Q:445:SER:HA	2:Q:448:LYS:HE2	1.78	0.66
2:Q:802:ILE:CD1	2:Q:824:ILE:HD11	2.26	0.66
2:R:561:SER:OG	2:R:562:PRO:HD3	1.96	0.66
2:R:617:MET:HB2	2:R:619:PHE:CZ	2.31	0.66
2:S:501:LEU:O	2:S:505:CYS:HB2	1.96	0.66
2:S:596:GLU:C	2:S:601:LYS:HB2	2.17	0.66
1:B:218:LEU:HA	1:B:221:VAL:HG22	1.78	0.65
1:E:220:ARG:NH2	1:E:255:ALA:O	2.29	0.65
1:L:150:GLU:OE1	1:L:747:SER:OG	2.08	0.65
2:M:235:GLU:HB2	2:M:239:LYS:NZ	2.11	0.65
2:M:555:CYS:HB3	2:M:619:PHE:CZ	2.30	0.65
2:M:866:LYS:HA	2:M:869:ASN:HD21	1.61	0.65
2:N:105:LYS:HZ3	2:N:213:CYS:HB3	1.59	0.65
2:N:890:GLU:HA	2:N:893:ASP:OD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:178:SER:HA	2:O:181:LEU:CG	2.26	0.65
2:O:431:ARG:HH12	2:P:255:ARG:NH1	1.93	0.65
2:O:530:GLN:HG2	2:P:525:ARG:HH21	1.58	0.65
2:P:386:PHE:HA	2:P:389:LYS:HZ1	1.58	0.65
2:P:421:LEU:CB	2:P:481:TYR:HD1	2.08	0.65
2:Q:38:ARG:CG	2:Q:89:VAL:HG22	2.26	0.65
2:R:297:TYR:HA	2:R:300:LYS:HZ2	1.58	0.65
2:R:639:ARG:CA	2:R:642:ILE:HD12	2.19	0.65
2:S:269:TYR:HB3	2:S:274:LEU:HD21	1.78	0.65
2:S:479:SER:O	2:S:482:LEU:HG	1.96	0.65
1:D:659:TRP:O	1:D:669:ARG:NH1	2.28	0.65
2:M:177:PHE:HE2	2:S:161:GLN:HB3	1.61	0.65
2:N:603:ALA:HA	2:N:850:ILE:HD12	1.76	0.65
2:N:608:LEU:HD23	2:N:609:SER:N	2.12	0.65
2:O:333:GLU:OE1	2:O:336:MET:HE3	1.95	0.65
2:O:360:GLU:OE1	2:O:360:GLU:N	2.25	0.65
2:O:414:PRO:HB2	2:O:488:GLU:OE1	1.96	0.65
2:O:599:LEU:HB2	2:O:912:ASN:OD1	1.95	0.65
2:P:509:SER:CB	2:P:738:TRP:HE1	2.09	0.65
2:P:745:LEU:HA	2:P:748:VAL:CG2	2.25	0.65
2:Q:221:ASP:OD1	2:Q:222:ASP:N	2.29	0.65
2:Q:285:GLU:OE1	2:Q:286:ARG:HG2	1.95	0.65
2:R:41:LEU:HD23	2:R:45:ILE:HD13	1.78	0.65
2:R:415:ASN:CA	2:R:418:ARG:HG2	2.27	0.65
2:R:482:LEU:O	2:R:486:VAL:HG13	1.96	0.65
2:S:729:PRO:HB3	2:S:733:LEU:HD23	1.78	0.65
1:D:226:GLU:OE2	2:P:148:LYS:NZ	2.29	0.65
1:I:646:THR:HB	1:I:649:MET:HG2	1.78	0.65
2:M:131:LYS:HE2	2:N:193:GLY:H	1.60	0.65
2:M:259:GLN:HG3	2:M:262:ARG:NH2	2.12	0.65
2:N:314:LEU:HB2	2:N:372:LEU:HG	1.77	0.65
2:N:810:PRO:HG3	2:N:816:GLU:CB	2.21	0.65
2:N:894:TYR:HA	2:N:897:LYS:HG2	1.77	0.65
2:O:131:LYS:HZ3	2:P:183:LEU:HD22	1.61	0.65
2:O:210:ILE:HG22	2:O:211:LEU:HD22	1.78	0.65
2:O:787:LEU:HD12	2:O:839:HIS:CE1	2.31	0.65
2:O:799:ARG:NH1	2:O:801:TYR:HA	2.11	0.65
2:P:497:PHE:O	2:P:501:LEU:HG	1.96	0.65
2:P:511:PHE:HB2	2:P:535:TYR:CZ	2.31	0.65
2:Q:173:LYS:HB3	2:Q:176:TYR:CE2	2.31	0.65
2:Q:269:TYR:CE2	2:Q:286:ARG:HD3	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:376:VAL:O	2:Q:379:LEU:HG	1.96	0.65
2:Q:636:ARG:HG3	2:Q:638:GLU:H	1.61	0.65
2:R:353:ARG:NH2	2:R:360:GLU:HG3	2.11	0.65
2:S:195:ASP:O	2:S:199:ILE:HG12	1.97	0.65
2:S:770:ASN:ND2	2:S:918:ASN:OD1	2.29	0.65
2:S:786:VAL:HG11	2:S:845:LEU:CD1	2.24	0.65
1:D:553:LYS:NZ	1:D:672:TYR:O	2.30	0.65
1:J:765:PHE:O	1:J:769:THR:HG23	1.96	0.65
2:M:159:GLN:HA	2:M:162:ARG:HE	1.61	0.65
2:N:218:ILE:CG1	2:N:248:VAL:HG22	2.26	0.65
2:N:503:VAL:HA	2:N:550:TRP:CE2	2.31	0.65
2:N:757:TYR:HD1	2:N:929:LYS:HG3	1.61	0.65
2:O:241:PHE:HD1	2:O:246:LEU:HD23	1.61	0.65
2:O:319:GLU:OE2	2:O:322:LYS:HB2	1.96	0.65
2:O:379:LEU:HD12	2:O:380:MET:N	2.11	0.65
2:O:431:ARG:NH1	2:P:255:ARG:HH12	1.94	0.65
2:O:509:SER:HB3	2:O:742:TYR:CE1	2.32	0.65
2:O:548:SER:HB2	2:O:631:ASP:OD2	1.95	0.65
2:O:874:PHE:O	2:O:878:ILE:HG23	1.96	0.65
2:P:74:VAL:HA	2:P:308:ILE:HG22	1.76	0.65
2:P:570:PHE:N	2:P:573:MET:O	2.28	0.65
2:Q:243:SER:HB3	2:Q:246:LEU:CD2	2.25	0.65
2:Q:762:HIS:O	2:Q:764:ARG:HD2	1.96	0.65
2:R:172:TYR:CE2	2:R:174:PRO:HA	2.32	0.65
2:R:208:CYS:CB	2:R:245:LYS:HD2	2.26	0.65
2:R:502:LEU:HB3	2:R:550:TRP:HZ3	1.60	0.65
1:F:404:LEU:O	1:F:407:VAL:HG22	1.96	0.65
1:I:607:PHE:HA	1:I:610:ARG:NH1	2.12	0.65
2:M:329:LYS:NZ	2:M:343:ASP:HA	2.10	0.65
2:M:371:LEU:HA	2:M:374:GLN:NE2	2.11	0.65
2:M:446:LEU:HD22	2:M:489:ASN:OD1	1.96	0.65
2:M:611:VAL:HB	2:M:617:MET:H	1.61	0.65
2:N:40:GLN:HG3	2:N:43:GLU:OE2	1.97	0.65
2:N:83:THR:HA	2:N:86:ILE:HG12	1.78	0.65
2:O:209:GLU:OE2	2:O:210:ILE:HG13	1.96	0.65
2:O:253:ASP:OD1	2:O:255:ARG:HG3	1.96	0.65
2:O:740:ARG:NE	2:O:809:ASN:OD1	2.28	0.65
2:P:137:LEU:HD11	2:P:150:LYS:CB	2.26	0.65
2:P:439:HIS:ND1	2:Q:312:THR:HG21	2.11	0.65
2:P:470:SER:CB	2:P:475:LEU:HD22	2.27	0.65
2:P:874:PHE:CE2	2:P:878:ILE:HD11	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:135:ASP:CA	2:Q:138:LYS:HZ2	2.10	0.65
2:Q:226:GLN:OE1	2:Q:229:ALA:N	2.19	0.65
2:Q:292:HIS:O	2:Q:296:GLN:HG2	1.96	0.65
2:Q:439:HIS:HB3	2:R:315:GLN:HE21	1.61	0.65
2:Q:482:LEU:O	2:Q:486:VAL:HG13	1.97	0.65
2:R:136:LYS:HG3	2:R:211:LEU:CD1	2.26	0.65
1:B:1:MET:HG2	1:B:56:LEU:HD11	1.79	0.65
1:D:14:ARG:NH1	1:D:31:SER:OG	2.29	0.65
1:D:448:ILE:HG22	1:D:452:MET:CE	2.26	0.65
1:D:533:ALA:O	1:D:689:GLN:NE2	2.29	0.65
1:G:572:GLU:N	1:G:572:GLU:OE1	2.30	0.65
2:M:136:LYS:CG	2:M:211:LEU:HD11	2.21	0.65
2:M:265:GLN:OE1	2:M:294:GLU:HB2	1.97	0.65
2:M:451:PHE:CE2	2:M:536:VAL:HG22	2.32	0.65
2:M:543:ARG:NH1	2:N:470:SER:HA	2.12	0.65
2:N:227:PHE:CD2	2:N:260:LEU:HD21	2.22	0.65
2:N:427:SER:HB3	2:O:295:GLN:OE1	1.97	0.65
2:N:728:ARG:NH2	2:N:796:VAL:HA	2.11	0.65
2:N:768:GLN:HG2	2:N:931:THR:HG21	1.77	0.65
2:N:791:SER:O	2:N:800:GLU:HG3	1.97	0.65
2:N:803:GLY:O	2:N:807:ARG:NH2	2.29	0.65
2:O:74:VAL:O	2:O:251:THR:HG23	1.96	0.65
2:O:269:TYR:CE1	2:O:286:ARG:HD3	2.31	0.65
2:O:286:ARG:O	2:O:290:VAL:HG23	1.96	0.65
2:P:120:PRO:CG	2:P:123:VAL:HG23	2.25	0.65
2:Q:359:ARG:NH2	2:Q:798:ASP:O	2.30	0.65
2:Q:800:GLU:OE2	2:Q:802:ILE:N	2.30	0.65
2:R:303:PRO:HB2	2:R:306:LYS:HZ3	1.62	0.65
2:R:357:ASN:HB3	2:R:728:ARG:HB3	1.77	0.65
2:S:38:ARG:NH1	2:S:39:ASP:HB2	2.12	0.65
2:S:794:HIS:ND1	2:S:796:VAL:HG22	2.12	0.65
2:S:894:TYR:CA	2:S:897:LYS:HE3	2.27	0.65
1:J:642:GLU:N	1:J:642:GLU:OE1	2.29	0.65
1:K:67:LEU:O	1:K:67:LEU:HD12	1.97	0.65
2:M:223:ILE:HB	2:M:226:GLN:O	1.94	0.65
2:M:862:ASN:OD1	2:M:867:ALA:HB3	1.96	0.65
2:N:756:LEU:HB3	2:N:927:TYR:CE1	2.31	0.65
2:O:197:SER:O	2:O:200:PHE:HB3	1.96	0.65
2:O:223:ILE:HD11	2:O:256:LEU:CD1	2.27	0.65
2:O:293:LEU:HA	2:O:296:GLN:HG3	1.78	0.65
2:O:415:ASN:O	2:O:418:ARG:NH1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:440:ARG:HH12	2:P:373:LYS:HG3	1.60	0.65
2:O:536:VAL:HG22	2:O:541:VAL:CG2	2.27	0.65
2:O:759:ASN:HD21	2:O:931:THR:H	1.45	0.65
2:P:273:LEU:HA	2:P:277:GLU:OE1	1.97	0.65
2:Q:436:TYR:HE1	2:R:254:LEU:HD11	1.62	0.65
2:Q:509:SER:CB	2:Q:738:TRP:HE1	2.10	0.65
2:Q:575:GLN:HG2	2:Q:617:MET:CE	2.26	0.65
2:Q:657:VAL:HG13	2:Q:658:PRO:HD2	1.78	0.65
2:Q:757:TYR:H	2:Q:760:ALA:HB2	1.60	0.65
2:R:429:ILE:HD12	2:R:434:LEU:HD12	1.79	0.65
2:R:494:LEU:HG	2:R:724:GLU:HB2	1.78	0.65
2:R:543:ARG:CD	2:S:469:GLN:HE22	2.10	0.65
2:R:593:ILE:HD11	2:R:601:LYS:O	1.96	0.65
2:S:231:TRP:HA	2:S:234:LEU:HD12	1.77	0.65
2:S:385:ASP:OD1	2:S:386:PHE:N	2.29	0.65
2:S:562:PRO:HG2	2:S:570:PHE:CD2	2.31	0.65
2:S:608:LEU:O	2:S:624:ASN:ND2	2.30	0.65
2:M:529:GLU:HA	2:M:532:ILE:HG12	1.77	0.65
2:M:600:ALA:HB1	2:M:604:MET:HE1	1.79	0.65
2:M:756:LEU:HB3	2:M:927:TYR:HE1	1.60	0.65
2:M:917:LEU:HD12	2:M:920:SER:CB	2.27	0.65
2:N:112:PRO:HD2	2:N:221:ASP:HB2	1.78	0.65
2:N:849:PRO:O	2:N:853:PRO:HD3	1.97	0.65
2:O:137:LEU:HD21	2:O:210:ILE:HG23	1.77	0.65
2:O:223:ILE:HD11	2:O:256:LEU:HD13	1.77	0.65
2:O:536:VAL:HG13	2:O:541:VAL:CG2	2.25	0.65
2:O:817:PHE:CZ	2:O:821:ILE:HD11	2.31	0.65
2:P:720:VAL:CG2	2:P:844:LEU:HD22	2.27	0.65
2:Q:104:ILE:O	2:Q:105:LYS:HE2	1.97	0.65
2:Q:290:VAL:HA	2:Q:293:LEU:HD12	1.78	0.65
2:Q:332:THR:HG23	2:Q:387:TYR:CD1	2.32	0.65
2:Q:786:VAL:HG11	2:Q:845:LEU:CD1	2.25	0.65
2:R:120:PRO:CG	2:R:123:VAL:HG23	2.26	0.65
2:R:820:LYS:O	2:R:824:ILE:HG13	1.96	0.65
2:S:218:ILE:HD12	2:S:220:PHE:CZ	2.32	0.65
2:S:776:ARG:O	2:S:780:LEU:HG	1.96	0.65
1:A:612:LEU:HD11	1:A:643:LEU:HD22	1.78	0.65
1:G:415:GLU:O	1:G:796:HIS:NE2	2.30	0.65
1:J:564:TRP:CH2	1:J:600:ILE:HD12	2.31	0.65
1:J:784:ALA:O	1:J:788:GLU:OE1	2.14	0.65
2:M:254:LEU:HA	2:M:257:TYR:HD2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:412:SER:OG	2:M:414:PRO:HD2	1.97	0.65
2:M:501:LEU:HD13	2:M:734:ILE:HG23	1.77	0.65
2:O:49:ILE:CG2	2:O:104:ILE:HD11	2.27	0.65
2:O:427:SER:HB3	2:P:295:GLN:HB2	1.79	0.65
2:P:137:LEU:HD21	2:P:150:LYS:HE3	1.78	0.65
2:Q:314:LEU:HD22	2:Q:373:LYS:CE	2.26	0.65
2:R:110:ILE:HG13	2:R:128:ARG:NH1	2.12	0.65
2:R:223:ILE:HD12	2:R:227:PHE:HA	1.79	0.65
2:S:37:LEU:O	2:S:41:LEU:HG	1.96	0.65
2:S:227:PHE:CD2	2:S:260:LEU:HD21	2.31	0.65
2:S:343:ASP:HB3	2:S:346:GLN:HB3	1.77	0.65
2:S:575:GLN:HB3	2:S:617:MET:HE1	1.79	0.65
2:S:637:CYS:SG	2:S:721:ASN:ND2	2.69	0.65
1:G:333:SER:O	1:G:337:ARG:NE	2.29	0.65
2:M:489:ASN:HB3	2:M:500:MET:HE1	1.78	0.65
2:M:585:PRO:HG2	2:M:586:GLU:OE2	1.96	0.65
2:M:727:ILE:HG23	2:M:794:HIS:CE1	2.31	0.65
2:O:133:VAL:HG13	2:O:210:ILE:HD13	1.79	0.65
2:O:510:ILE:O	2:O:514:PHE:HB2	1.97	0.65
2:O:727:ILE:HD11	2:O:841:LEU:CG	2.26	0.65
2:O:728:ARG:HH21	2:O:796:VAL:HA	1.60	0.65
2:P:195:ASP:HB2	2:P:198:GLU:CG	2.27	0.65
2:P:204:VAL:HG13	2:P:216:ILE:HD13	1.78	0.65
2:P:329:LYS:HA	2:P:343:ASP:HA	1.79	0.65
2:P:772:ALA:HA	2:P:917:LEU:CD2	2.27	0.65
2:Q:575:GLN:HE21	2:Q:617:MET:CG	2.07	0.65
2:Q:818:GLU:OE1	2:Q:870:LYS:HE3	1.97	0.65
2:R:114:LYS:NZ	2:S:238:ARG:HB3	2.11	0.65
2:R:605:ALA:HB3	2:R:650:ILE:HG23	1.78	0.65
2:R:607:SER:HB3	2:R:625:LEU:HD21	1.77	0.65
2:R:713:VAL:O	2:R:717:LEU:HD23	1.97	0.65
1:C:6:LEU:O	1:C:300:ASN:ND2	2.29	0.64
1:C:178:ASP:OD2	1:C:324:THR:HG23	1.97	0.64
1:C:502:ASP:OD1	1:C:503:PHE:N	2.30	0.64
1:E:514:ASP:OD2	1:E:518:ARG:NH2	2.31	0.64
1:I:173:GLU:N	1:I:173:GLU:OE1	2.29	0.64
2:M:387:TYR:HE1	2:M:390:LYS:HZ3	1.45	0.64
2:M:390:LYS:N	2:M:416:LEU:HD11	2.12	0.64
2:M:415:ASN:HA	2:M:418:ARG:NE	2.12	0.64
2:M:478:CYS:O	2:M:482:LEU:HG	1.97	0.64
2:M:852:HIS:HB3	2:M:886:LEU:CD1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:280:SER:HA	2:N:283:LEU:HG	1.79	0.64
2:O:152:GLN:HG3	2:O:206:ARG:NH1	2.12	0.64
2:O:223:ILE:HD12	2:O:227:PHE:CA	2.27	0.64
2:O:567:ILE:HB	2:O:753:LYS:NZ	2.12	0.64
2:P:740:ARG:NH1	2:P:788:VAL:HG11	2.12	0.64
2:P:790:GLU:CD	2:P:839:HIS:HA	2.18	0.64
2:Q:163:GLY:HA2	2:Q:194:GLN:OE1	1.97	0.64
2:Q:465:TYR:OH	2:Q:736:LYS:HD3	1.96	0.64
2:Q:535:TYR:CG	2:Q:539:MET:HE1	2.32	0.64
2:Q:625:LEU:HD11	2:Q:850:ILE:CG2	2.26	0.64
2:R:743:PHE:HA	2:R:746:ASN:OD1	1.97	0.64
2:R:755:ARG:HA	2:R:757:TYR:CE2	2.32	0.64
2:R:834:THR:O	2:R:838:THR:HG22	1.96	0.64
2:S:554:CYS:O	2:S:558:VAL:HG23	1.98	0.64
2:S:611:VAL:O	2:S:616:LEU:HA	1.97	0.64
1:D:199:LEU:HD12	1:D:207:ARG:NH2	2.12	0.64
2:M:111:ASP:OD2	2:M:114:LYS:HE2	1.97	0.64
2:M:507:SER:HA	2:M:510:ILE:HG12	1.78	0.64
2:M:514:PHE:CZ	2:M:571:LEU:HD12	2.31	0.64
2:M:632:ILE:HA	2:M:635:CYS:SG	2.37	0.64
2:N:120:PRO:CG	2:N:123:VAL:HG23	2.28	0.64
2:O:38:ARG:HG2	2:O:89:VAL:CG2	2.26	0.64
2:O:316:LEU:HB3	2:O:326:GLU:OE2	1.97	0.64
2:O:575:GLN:O	2:O:923:VAL:HG12	1.97	0.64
2:P:217:LEU:HD11	2:P:249:VAL:HG13	1.79	0.64
2:P:750:ASP:HA	2:P:753:LYS:HE2	1.78	0.64
2:P:806:LEU:CD2	2:P:808:LEU:HD11	2.27	0.64
2:P:852:HIS:HB3	2:P:886:LEU:HD11	1.79	0.64
2:Q:510:ILE:HG13	2:Q:535:TYR:OH	1.97	0.64
2:R:281:VAL:O	2:R:285:GLU:OE1	2.15	0.64
2:R:740:ARG:NE	2:R:809:ASN:OD1	2.28	0.64
2:S:136:LYS:CE	2:S:211:LEU:HA	2.27	0.64
1:I:35:LEU:O	1:I:39:GLU:OE1	2.14	0.64
1:L:10:VAL:HG22	1:L:14:ARG:CZ	2.27	0.64
2:M:543:ARG:NH1	2:N:469:GLN:O	2.30	0.64
2:M:862:ASN:OD1	2:M:864:SER:HB3	1.97	0.64
2:N:226:GLN:NE2	2:O:268:ASN:OD1	2.30	0.64
2:N:261:ILE:HD11	2:N:294:GLU:HG2	1.79	0.64
2:N:576:LEU:CD1	2:N:591:PHE:HB2	2.27	0.64
2:N:580:SER:CB	2:N:590:LYS:HB3	2.27	0.64
2:N:872:THR:HG22	2:N:892:TRP:CZ2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:281:VAL:HG12	2:P:282:ARG:HH22	1.61	0.64
2:P:529:GLU:HA	2:P:532:ILE:HG12	1.78	0.64
2:P:819:LYS:HZ3	2:P:823:ILE:HD11	1.62	0.64
2:Q:37:LEU:CD1	2:Q:310:LEU:HA	2.26	0.64
2:Q:117:ARG:HG2	2:Q:118:HIS:N	2.13	0.64
2:Q:128:ARG:C	2:Q:132:MET:HE1	2.17	0.64
2:Q:137:LEU:HD12	2:Q:138:LYS:N	2.12	0.64
2:Q:858:ILE:HD12	2:Q:915:THR:HA	1.78	0.64
2:R:121:ILE:HB	2:R:236:SER:OG	1.98	0.64
2:R:496:LYS:HA	2:R:499:GLN:HG2	1.78	0.64
2:S:390:LYS:HZ1	2:S:413:VAL:HG22	1.62	0.64
2:S:446:LEU:HD23	2:S:500:MET:SD	2.38	0.64
2:S:740:ARG:NH2	2:S:743:PHE:HB2	2.12	0.64
1:C:220:ARG:O	1:C:225:VAL:HG22	1.97	0.64
1:C:272:TRP:NE1	1:C:276:LEU:HD11	2.12	0.64
1:I:30:GLU:HG2	1:I:34:PHE:HE2	1.63	0.64
2:M:256:LEU:HD12	2:M:257:TYR:N	2.11	0.64
2:M:376:VAL:HA	2:M:379:LEU:HD21	1.78	0.64
2:N:173:LYS:HG2	2:N:174:PRO:HD2	1.79	0.64
2:N:562:PRO:HG2	2:N:570:PHE:HE2	1.60	0.64
2:P:199:ILE:O	2:P:203:LEU:HG	1.98	0.64
2:P:443:MET:HE2	2:P:489:ASN:HB3	1.79	0.64
2:P:507:SER:O	2:P:535:TYR:OH	2.09	0.64
2:P:563:ASN:OD1	2:P:566:LYS:HE3	1.97	0.64
2:P:612:ALA:CB	2:P:656:ILE:HD13	2.28	0.64
2:Q:303:PRO:HB2	2:Q:305:GLN:OE1	1.98	0.64
2:Q:429:ILE:CD1	2:Q:434:LEU:HB2	2.26	0.64
2:Q:815:ASP:HA	2:Q:870:LYS:CD	2.28	0.64
2:R:129:LEU:HD23	2:R:132:MET:SD	2.38	0.64
2:R:161:GLN:HE22	2:S:177:PHE:HB3	1.62	0.64
1:B:435:HIS:NE2	1:B:474:HIS:O	2.30	0.64
1:B:538:PRO:O	1:B:542:LYS:NZ	2.30	0.64
1:G:511:ARG:NE	1:G:559:ASP:OD1	2.31	0.64
1:L:510:ILE:HG23	1:L:692:VAL:HG21	1.79	0.64
2:M:293:LEU:HB3	2:M:297:TYR:OH	1.97	0.64
2:M:343:ASP:HB3	2:M:346:GLN:HB3	1.80	0.64
2:M:561:SER:OG	2:M:562:PRO:HD3	1.98	0.64
2:N:353:ARG:O	2:N:357:ASN:N	2.31	0.64
2:N:426:LEU:HD12	2:N:427:SER:N	2.13	0.64
2:N:509:SER:HB3	2:N:742:TYR:CE1	2.33	0.64
2:N:849:PRO:HA	2:N:852:HIS:ND1	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:733:LEU:HD13	2:O:793:TYR:HB2	1.80	0.64
2:P:110:ILE:HA	2:P:128:ARG:NH2	2.12	0.64
2:P:505:CYS:HB3	2:P:738:TRP:CG	2.32	0.64
2:P:519:ALA:HA	2:P:527:LYS:NZ	2.12	0.64
2:R:105:LYS:HG3	2:R:213:CYS:CB	2.27	0.64
2:R:755:ARG:NH1	2:R:812:THR:OG1	2.30	0.64
2:R:782:PHE:O	2:R:786:VAL:HG23	1.98	0.64
2:S:311:LYS:HA	2:S:315:GLN:OE1	1.97	0.64
2:S:548:SER:N	2:S:631:ASP:OD2	2.28	0.64
2:S:568:GLY:CA	2:S:575:GLN:HB2	2.25	0.64
2:S:836:LYS:HE3	2:S:843:PHE:CE1	2.33	0.64
1:A:55:TYR:OH	1:L:551:MET:N	2.30	0.64
1:D:478:GLU:N	1:D:478:GLU:OE1	2.29	0.64
1:E:153:GLN:NE2	1:E:158:SER:O	2.30	0.64
1:I:595:GLU:N	1:I:595:GLU:OE2	2.30	0.64
1:K:205:LYS:HE2	1:K:205:LYS:HA	1.78	0.64
2:M:356:LEU:HB2	2:M:358:LEU:HB2	1.79	0.64
2:M:376:VAL:HG12	2:M:380:MET:CE	2.28	0.64
2:M:755:ARG:HB3	2:M:769:SER:OG	1.98	0.64
2:N:180:ALA:HA	2:N:194:GLN:CD	2.18	0.64
2:N:426:LEU:HA	2:N:429:ILE:HG12	1.80	0.64
2:N:593:ILE:HG23	2:N:601:LYS:NZ	2.12	0.64
2:N:751:GLN:CD	2:N:811:VAL:HG11	2.17	0.64
2:N:815:ASP:CB	2:N:870:LYS:HE2	2.28	0.64
2:N:824:ILE:O	2:N:828:LEU:HD13	1.97	0.64
2:O:610:THR:HA	2:O:618:ASP:HA	1.79	0.64
2:P:156:HIS:CE1	2:P:206:ARG:HD2	2.32	0.64
2:P:412:SER:HB3	2:P:415:ASN:CG	2.17	0.64
2:Q:564:ASP:O	2:Q:565:GLU:HB2	1.98	0.64
2:R:502:LEU:HB3	2:R:550:TRP:CZ3	2.32	0.64
2:R:548:SER:HB3	2:R:631:ASP:OD2	1.98	0.64
2:S:107:LEU:CD1	2:S:218:ILE:HG22	2.27	0.64
2:S:319:GLU:HG2	2:S:320:LYS:H	1.61	0.64
2:S:608:LEU:HD21	2:S:610:THR:OG1	1.97	0.64
1:C:287:GLY:HA2	1:C:290:ARG:HD2	1.78	0.64
2:M:805:GLY:H	2:M:807:ARG:NH1	1.96	0.64
2:N:72:PHE:HA	2:N:306:LYS:HB3	1.78	0.64
2:N:136:LYS:HG2	2:N:140:TYR:OH	1.97	0.64
2:O:430:TYR:HE2	2:P:255:ARG:HH11	1.44	0.64
2:O:580:SER:HB3	2:O:590:LYS:CD	2.23	0.64
2:O:592:ASN:HB3	2:O:595:THR:HG23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:353:ARG:O	2:P:357:ASN:N	2.30	0.64
2:P:749:ALA:O	2:P:753:LYS:HG3	1.98	0.64
2:Q:348:ILE:CG2	2:Q:368:VAL:HG13	2.28	0.64
2:Q:706:PHE:O	2:Q:710:ILE:HG13	1.97	0.64
2:Q:857:PRO:HB2	2:Q:914:ILE:HD11	1.79	0.64
2:R:282:ARG:HG3	2:R:285:GLU:OE2	1.97	0.64
2:R:802:ILE:HG23	2:R:807:ARG:HH21	1.61	0.64
2:R:866:LYS:HB3	2:R:870:LYS:NZ	2.12	0.64
2:S:159:GLN:O	2:S:162:ARG:NH1	2.31	0.64
2:S:448:LYS:HD3	2:S:542:GLY:HA3	1.79	0.64
1:B:365:LYS:HA	1:B:365:LYS:HE3	1.80	0.64
1:F:763:HIS:O	1:F:767:VAL:HG23	1.98	0.64
1:G:377:TYR:CZ	1:G:416:LEU:HD23	2.32	0.64
1:H:151:THR:OG1	1:H:745:LEU:O	2.15	0.64
1:J:271:CYS:O	1:J:274:THR:OG1	2.14	0.64
2:M:319:GLU:H	2:M:323:ALA:HB3	1.62	0.64
2:M:592:ASN:HB3	2:M:595:THR:HG23	1.78	0.64
2:N:353:ARG:HG3	2:N:359:ARG:N	2.13	0.64
2:N:418:ARG:CG	2:N:485:GLN:HG3	2.26	0.64
2:O:332:THR:HB	2:O:336:MET:CE	2.28	0.64
2:O:644:ASN:OD1	2:O:648:LYS:NZ	2.28	0.64
2:P:332:THR:H	2:P:336:MET:HE2	1.61	0.64
2:P:368:VAL:HA	2:P:371:LEU:HD12	1.80	0.64
2:P:460:PHE:O	2:P:512:ASN:ND2	2.31	0.64
2:Q:304:VAL:HG12	2:Q:307:ARG:NH2	2.10	0.64
2:R:443:MET:HE1	2:R:496:LYS:CD	2.28	0.64
2:S:376:VAL:HA	2:S:379:LEU:HD21	1.80	0.64
1:B:44:LEU:CD2	1:B:49:ALA:HB2	2.28	0.64
1:B:150:GLU:OE2	1:B:152:HIS:N	2.30	0.64
2:M:755:ARG:HH11	2:M:767:SER:HA	1.61	0.64
2:M:873:SER:HA	2:M:876:LYS:CD	2.28	0.64
2:N:123:VAL:CG2	2:N:164:LEU:HD11	2.28	0.64
2:N:434:LEU:HD11	2:N:449:ASP:CB	2.28	0.64
2:N:629:ILE:HA	2:N:632:ILE:HG22	1.79	0.64
2:O:172:TYR:CE2	2:O:174:PRO:HA	2.33	0.64
2:O:373:LYS:HE3	2:O:374:GLN:NE2	2.09	0.64
2:O:382:VAL:HG13	2:O:383:LEU:HD23	1.79	0.64
2:O:604:MET:SD	2:O:914:ILE:HG12	2.38	0.64
2:O:752:HIS:NE2	2:O:811:VAL:O	2.27	0.64
2:O:772:ALA:HA	2:O:917:LEU:HD23	1.79	0.64
2:Q:437:GLU:OE2	2:Q:440:ARG:HD3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:505:CYS:HB3	2:Q:738:TRP:CG	2.33	0.64
2:S:501:LEU:HD11	2:S:738:TRP:HB2	1.80	0.64
2:S:535:TYR:CD2	2:S:539:MET:HE3	2.33	0.64
2:S:841:LEU:O	2:S:845:LEU:HG	1.98	0.64
1:C:271:CYS:O	1:C:274:THR:OG1	2.15	0.64
1:H:517:LEU:HD11	1:H:696:MET:CE	2.28	0.64
1:J:566:GLU:OE1	1:J:688:LEU:HD23	1.98	0.64
1:K:250:ARG:NH1	1:K:252:TYR:OH	2.30	0.64
2:M:917:LEU:HA	2:M:920:SER:OG	1.98	0.64
2:O:453:TYR:CD1	2:O:475:LEU:HD22	2.32	0.64
2:P:75:ASP:CB	2:P:307:ARG:HH22	2.08	0.64
2:P:255:ARG:O	2:P:259:GLN:NE2	2.30	0.64
2:P:577:ASN:ND2	2:P:921:THR:HG22	2.12	0.64
2:Q:314:LEU:HD13	2:Q:372:LEU:HD23	1.79	0.64
2:Q:713:VAL:HG22	2:Q:849:PRO:CG	2.28	0.64
2:R:311:LYS:HE2	2:R:325:LYS:CE	2.28	0.64
2:R:917:LEU:HA	2:R:920:SER:OG	1.98	0.64
2:S:231:TRP:O	2:S:234:LEU:HB2	1.97	0.64
2:S:262:ARG:O	2:S:265:GLN:HG3	1.98	0.64
2:S:643:THR:HG23	2:S:710:ILE:CD1	2.28	0.64
2:S:707:SER:O	2:S:711:THR:HG23	1.97	0.64
1:B:415:GLU:O	1:B:796:HIS:NE2	2.30	0.63
1:G:214:ILE:CD1	1:G:291:LEU:HD22	2.28	0.63
1:G:564:TRP:CZ3	1:G:600:ILE:HG23	2.34	0.63
1:K:431:GLU:O	1:K:666:ARG:NH1	2.29	0.63
1:L:716:TYR:HH	1:L:723:HIS:HD1	1.46	0.63
2:M:219:THR:HA	2:M:249:VAL:CG1	2.27	0.63
2:M:506:GLY:O	2:M:510:ILE:HG12	1.98	0.63
2:N:560:ASN:ND2	2:N:657:VAL:HG13	2.13	0.63
2:O:378:LEU:HD21	2:O:425:MET:HE3	1.80	0.63
2:O:440:ARG:HH12	2:P:373:LYS:CG	2.11	0.63
2:O:444:ASP:HB2	2:O:542:GLY:O	1.98	0.63
2:O:539:MET:HE3	2:O:550:TRP:HZ2	1.63	0.63
2:O:770:ASN:CG	2:O:773:LYS:HE3	2.18	0.63
2:P:370:GLU:HG2	2:P:468:PRO:CB	2.28	0.63
2:P:377:ARG:HA	2:P:380:MET:CG	2.27	0.63
2:P:505:CYS:HB3	2:P:738:TRP:CD2	2.32	0.63
2:P:594:ASP:HA	2:P:601:LYS:NZ	2.14	0.63
2:P:782:PHE:O	2:P:786:VAL:HG23	1.98	0.63
2:Q:302:PHE:HB3	2:Q:307:ARG:HH11	1.63	0.63
2:Q:314:LEU:CD1	2:Q:372:LEU:HD23	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:593:ILE:CD1	2:Q:605:ALA:HB2	2.20	0.63
2:R:441:PHE:O	2:R:445:SER:OG	2.17	0.63
2:R:569:VAL:HG13	2:R:574:VAL:HG22	1.80	0.63
2:S:713:VAL:CA	2:S:849:PRO:HG3	2.23	0.63
1:A:642:GLU:OE1	1:A:642:GLU:N	2.27	0.63
1:B:68:GLY:HA2	1:B:293:TRP:CZ2	2.33	0.63
1:C:287:GLY:O	1:C:290:ARG:N	2.31	0.63
1:E:286:GLU:O	1:E:290:ARG:NE	2.31	0.63
2:M:277:GLU:O	2:M:286:ARG:NH2	2.32	0.63
2:M:329:LYS:CE	2:M:343:ASP:HA	2.28	0.63
2:M:350:ASP:O	2:M:354:GLU:HG2	1.96	0.63
2:M:806:LEU:HG	2:M:808:LEU:HG	1.79	0.63
2:M:806:LEU:HD23	2:M:808:LEU:HD11	1.79	0.63
2:N:353:ARG:HH21	2:N:360:GLU:HG3	1.63	0.63
2:N:386:PHE:HA	2:N:389:LYS:CE	2.28	0.63
2:N:460:PHE:O	2:N:512:ASN:ND2	2.31	0.63
2:N:593:ILE:HD11	2:N:601:LYS:O	1.97	0.63
2:N:852:HIS:HA	2:N:855:ILE:HD12	1.79	0.63
2:N:852:HIS:HD2	2:N:855:ILE:HD11	1.63	0.63
2:O:204:VAL:HG12	2:O:245:LYS:CD	2.29	0.63
2:O:562:PRO:HG2	2:O:570:PHE:CE2	2.34	0.63
2:O:764:ARG:O	2:O:863:CYS:N	2.30	0.63
2:P:226:GLN:HE22	2:P:228:ASP:HB2	1.60	0.63
2:P:296:GLN:HA	2:P:299:LEU:CD2	2.27	0.63
2:P:381:GLN:OE1	2:Q:304:VAL:HG22	1.99	0.63
2:Q:575:GLN:HG3	2:Q:619:PHE:CD2	2.32	0.63
2:Q:727:ILE:HG12	2:Q:729:PRO:HG3	1.79	0.63
2:Q:852:HIS:HA	2:Q:855:ILE:HD12	1.81	0.63
2:R:121:ILE:H	2:R:121:ILE:HD12	1.64	0.63
2:R:297:TYR:HA	2:R:300:LYS:HZ3	1.63	0.63
2:R:317:VAL:HG21	2:R:372:LEU:HD22	1.79	0.63
2:S:227:PHE:HD2	2:S:260:LEU:HD21	1.62	0.63
2:S:799:ARG:HD3	2:S:800:GLU:N	2.13	0.63
1:B:136:HIS:HB3	1:B:139:VAL:HG22	1.80	0.63
1:B:178:ASP:OD2	1:B:324:THR:OG1	2.08	0.63
1:E:195:ILE:HD11	1:E:308:GLN:HG2	1.79	0.63
1:H:404:LEU:O	1:H:407:VAL:HG12	1.99	0.63
2:M:511:PHE:HA	2:M:515:VAL:CG2	2.28	0.63
2:M:557:VAL:HG22	2:M:658:PRO:HG3	1.79	0.63
2:M:569:VAL:HG23	2:M:922:ILE:HG21	1.81	0.63
2:M:727:ILE:HD13	2:M:841:LEU:HD21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:72:PHE:CE2	2:N:306:LYS:HG2	2.33	0.63
2:N:483:ALA:O	2:N:486:VAL:HG22	1.97	0.63
2:N:874:PHE:CE2	2:N:878:ILE:HD11	2.33	0.63
2:P:177:PHE:O	2:P:181:LEU:HG	1.98	0.63
2:P:460:PHE:HB3	2:P:512:ASN:CG	2.18	0.63
2:P:745:LEU:CA	2:P:748:VAL:HG22	2.28	0.63
2:Q:331:LYS:HG2	2:Q:336:MET:HB3	1.80	0.63
2:Q:604:MET:O	2:Q:608:LEU:HG	1.99	0.63
2:R:562:PRO:HG2	2:R:570:PHE:CD2	2.33	0.63
2:R:612:ALA:HB2	2:R:654:THR:CG2	2.28	0.63
2:S:72:PHE:CZ	2:S:306:LYS:HE3	2.34	0.63
2:S:86:ILE:HG21	2:S:251:THR:OG1	1.99	0.63
2:S:259:GLN:OE1	2:S:262:ARG:NH2	2.32	0.63
2:S:359:ARG:HH21	2:S:794:HIS:N	1.97	0.63
2:S:454:VAL:HA	2:S:457:ASP:OD1	1.98	0.63
1:B:145:ARG:NH1	1:B:146:GLU:OE2	2.31	0.63
1:F:213:ASN:ND2	1:F:240:LEU:O	2.32	0.63
1:F:599:SER:O	1:F:602:THR:OG1	2.13	0.63
1:J:82:LYS:NZ	1:J:84:GLU:OE2	2.26	0.63
1:J:377:TYR:CZ	1:J:381:LEU:HD21	2.33	0.63
1:L:271:CYS:O	1:L:274:THR:OG1	2.17	0.63
2:M:578:ARG:CD	2:M:579:LYS:HE3	2.27	0.63
2:N:256:LEU:O	2:N:260:LEU:HG	1.98	0.63
2:N:604:MET:HE1	2:N:914:ILE:HG23	1.79	0.63
2:N:740:ARG:HB2	2:N:789:GLU:OE2	1.98	0.63
2:O:311:LYS:HE2	2:O:315:GLN:CG	2.27	0.63
2:O:721:ASN:HA	2:O:724:GLU:OE2	1.98	0.63
2:P:241:PHE:HB3	2:P:246:LEU:CD1	2.29	0.63
2:P:262:ARG:HH11	2:P:294:GLU:CG	2.10	0.63
2:P:314:LEU:HB3	2:P:373:LYS:NZ	2.13	0.63
2:P:629:ILE:HA	2:P:632:ILE:HG12	1.79	0.63
2:P:760:ALA:O	2:P:768:GLN:HB3	1.96	0.63
2:Q:501:LEU:CD1	2:Q:502:LEU:HG	2.28	0.63
2:Q:592:ASN:ND2	2:Q:595:THR:HG23	2.13	0.63
2:Q:727:ILE:HD11	2:Q:841:LEU:HD11	1.79	0.63
2:Q:783:LEU:HG	2:Q:817:PHE:HZ	1.62	0.63
2:R:495:SER:OG	2:R:634:ALA:HB3	1.98	0.63
2:S:105:LYS:CD	2:S:213:CYS:HB3	2.27	0.63
2:S:443:MET:SD	2:S:496:LYS:HB3	2.39	0.63
2:S:452:THR:O	2:S:456:GLN:NE2	2.31	0.63
2:S:494:LEU:O	2:S:498:LEU:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:846:ILE:O	2:S:852:HIS:NE2	2.27	0.63
1:D:448:ILE:HG22	1:D:452:MET:HE1	1.79	0.63
1:K:601:THR:O	1:K:605:GLN:NE2	2.32	0.63
1:K:702:ALA:HB2	1:K:793:TYR:CD2	2.34	0.63
1:L:219:CYS:HA	1:L:272:TRP:HE1	1.63	0.63
2:M:103:ASN:H	2:M:214:LYS:HZ3	1.46	0.63
2:M:132:MET:O	2:M:136:LYS:HD3	1.98	0.63
2:M:172:TYR:CE2	2:M:174:PRO:HA	2.34	0.63
2:M:603:ALA:HB1	2:M:854:PHE:HE1	1.63	0.63
2:M:787:LEU:HD21	2:M:824:ILE:HD12	1.80	0.63
2:M:849:PRO:O	2:M:853:PRO:HD3	1.99	0.63
2:N:40:GLN:HA	2:N:43:GLU:CD	2.19	0.63
2:O:107:LEU:HD13	2:O:216:ILE:HG23	1.81	0.63
2:O:713:VAL:HG13	2:O:716:TRP:CE3	2.34	0.63
2:O:716:TRP:O	2:O:720:VAL:HG23	1.99	0.63
2:P:241:PHE:HB3	2:P:246:LEU:HD13	1.79	0.63
2:P:297:TYR:O	2:P:301:LEU:HD23	1.98	0.63
2:P:421:LEU:O	2:P:425:MET:HG3	1.98	0.63
2:P:572:GLY:O	2:P:622:VAL:HG12	1.99	0.63
2:P:824:ILE:O	2:P:828:LEU:HD13	1.99	0.63
2:Q:114:LYS:CD	2:R:239:LYS:HG2	2.24	0.63
2:Q:151:GLU:HA	2:Q:154:GLN:CG	2.28	0.63
2:Q:461:ASN:OD1	2:Q:462:THR:HG23	1.98	0.63
2:R:121:ILE:HG12	2:R:233:VAL:CG2	2.21	0.63
2:R:131:LYS:CD	2:S:192:GLY:HA2	2.29	0.63
2:R:787:LEU:HD11	2:R:824:ILE:HD12	1.81	0.63
2:S:644:ASN:O	2:S:648:LYS:NZ	2.30	0.63
2:M:850:ILE:O	2:M:853:PRO:HD2	1.99	0.63
2:N:293:LEU:HA	2:N:296:GLN:CG	2.29	0.63
2:N:455:LYS:HE3	2:N:532:ILE:CD1	2.29	0.63
2:N:571:LEU:CD2	2:N:745:LEU:HB2	2.28	0.63
2:O:133:VAL:HG12	2:O:137:LEU:HD12	1.80	0.63
2:O:598:GLY:HA3	2:O:911:GLN:HB3	1.81	0.63
2:O:720:VAL:CG2	2:O:844:LEU:HD22	2.20	0.63
2:P:571:LEU:HD23	2:P:745:LEU:HB3	1.79	0.63
2:P:783:LEU:HD21	2:P:845:LEU:HB3	1.79	0.63
2:Q:231:TRP:H	2:Q:260:LEU:HD11	1.64	0.63
2:Q:722:GLU:OE2	2:Q:723:ILE:HG12	1.98	0.63
2:R:356:LEU:HB2	2:R:358:LEU:HB2	1.79	0.63
2:R:496:LYS:HA	2:R:499:GLN:CG	2.28	0.63
2:S:161:GLN:NE2	2:S:162:ARG:HB3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:770:ASN:HD21	2:S:859:GLY:HA3	1.64	0.63
1:H:220:ARG:NH1	1:H:254:PHE:O	2.31	0.63
1:L:364:ASN:O	1:L:367:GLN:NE2	2.31	0.63
2:M:421:LEU:HB3	2:M:481:TYR:HD1	1.63	0.63
2:M:499:GLN:O	2:M:503:VAL:HG23	1.98	0.63
2:N:282:ARG:HB2	2:N:285:GLU:OE2	1.98	0.63
2:N:509:SER:HG	2:N:738:TRP:HE1	1.46	0.63
2:N:596:GLU:HG3	2:N:604:MET:SD	2.39	0.63
2:O:86:ILE:HG13	2:O:87:ASN:N	2.14	0.63
2:O:589:LYS:HG3	2:O:590:LYS:N	2.14	0.63
2:O:771:ALA:HA	2:O:774:ILE:HD13	1.79	0.63
2:P:235:GLU:HA	2:P:238:ARG:HG2	1.81	0.63
2:R:71:VAL:H	2:R:306:LYS:CE	2.11	0.63
2:R:195:ASP:O	2:R:198:GLU:HG3	1.99	0.63
2:S:38:ARG:HA	2:S:41:LEU:CD1	2.26	0.63
2:S:73:PHE:HB2	2:S:302:PHE:CD1	2.33	0.63
2:S:807:ARG:HE	2:S:820:LYS:HE3	1.62	0.63
2:S:852:HIS:HB3	2:S:886:LEU:HD11	1.81	0.63
1:B:612:LEU:HD11	1:B:643:LEU:CD1	2.28	0.63
1:F:599:SER:OG	1:F:602:THR:HG23	1.99	0.63
1:L:151:THR:OG1	1:L:745:LEU:O	2.16	0.63
2:M:110:ILE:HG13	2:M:128:ARG:HH12	1.63	0.63
2:M:313:MET:CG	2:M:376:VAL:HG22	2.29	0.63
2:M:425:MET:HG2	2:M:477:ASN:HB2	1.81	0.63
2:N:196:LEU:HD23	2:N:199:ILE:HD12	1.81	0.63
2:N:261:ILE:O	2:N:265:GLN:HG3	1.99	0.63
2:N:858:ILE:HG22	2:N:918:ASN:CB	2.29	0.63
2:O:49:ILE:HD13	2:O:104:ILE:CD1	2.29	0.63
2:O:353:ARG:O	2:O:357:ASN:N	2.31	0.63
2:O:493:SER:CB	2:O:496:LYS:HZ3	2.12	0.63
2:O:501:LEU:CD2	2:O:734:ILE:HG12	2.27	0.63
2:Q:71:VAL:HG22	2:Q:248:VAL:HB	1.80	0.63
2:Q:167:LEU:HD12	2:Q:168:THR:N	2.14	0.63
2:Q:574:VAL:HG12	2:Q:576:LEU:HD12	1.81	0.63
2:R:71:VAL:HG22	2:R:248:VAL:CB	2.25	0.63
2:R:707:SER:O	2:R:711:THR:HG23	1.98	0.63
2:R:749:ALA:O	2:R:753:LYS:HE2	1.98	0.63
2:S:262:ARG:HA	2:S:294:GLU:OE2	1.99	0.63
1:C:165:TRP:CE2	1:C:169:LEU:HD11	2.34	0.63
1:D:596:GLU:OE1	1:D:651:ARG:NE	2.32	0.63
2:M:771:ALA:HA	2:M:774:ILE:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:858:ILE:HG22	2:M:918:ASN:HD22	1.63	0.63
2:N:69:ARG:HH21	2:N:242:ASN:HA	1.62	0.63
2:N:173:LYS:CD	2:N:175:GLU:HB2	2.29	0.63
2:N:286:ARG:NH2	2:N:289:MET:HG3	2.13	0.63
2:N:343:ASP:OD2	2:N:345:ARG:HG2	1.99	0.63
2:N:720:VAL:HA	2:N:844:LEU:CD2	2.29	0.63
2:N:790:GLU:HB3	2:N:839:HIS:CE1	2.34	0.63
2:O:415:ASN:HA	2:O:418:ARG:NE	2.14	0.63
2:O:426:LEU:HD11	2:O:436:TYR:CE1	2.34	0.63
2:O:770:ASN:H	2:O:773:LYS:HD2	1.63	0.63
2:O:826:GLU:O	2:O:829:LYS:HG2	1.99	0.63
2:Q:443:MET:HE3	2:Q:500:MET:HG2	1.81	0.63
2:Q:448:LYS:NZ	2:Q:542:GLY:O	2.32	0.63
2:Q:538:TYR:O	2:Q:553:ARG:HD2	1.99	0.63
2:Q:608:LEU:O	2:Q:624:ASN:ND2	2.32	0.63
2:R:123:VAL:HG13	2:S:177:PHE:CE1	2.34	0.63
2:R:438:GLN:HG3	2:R:441:PHE:CZ	2.34	0.63
2:S:38:ARG:HB2	2:S:89:VAL:HG22	1.79	0.63
2:S:647:ASN:O	2:S:651:ALA:N	2.30	0.63
2:S:859:GLY:HA3	2:S:918:ASN:OD1	1.99	0.63
1:D:509:GLY:O	1:D:512:SER:OG	2.16	0.62
1:E:756:ASP:O	1:E:759:SER:OG	2.14	0.62
2:M:111:ASP:HA	2:M:221:ASP:HB2	1.81	0.62
2:M:503:VAL:HA	2:M:550:TRP:CE2	2.34	0.62
2:M:568:GLY:HA2	2:M:570:PHE:CZ	2.34	0.62
2:N:431:ARG:HA	2:N:431:ARG:NE	2.14	0.62
2:N:560:ASN:ND2	2:N:658:PRO:HD2	2.14	0.62
2:N:755:ARG:HB2	2:N:769:SER:OG	1.98	0.62
2:O:195:ASP:HB3	2:O:198:GLU:HG2	1.81	0.62
2:O:504:GLY:O	2:O:507:SER:HB2	1.98	0.62
2:O:567:ILE:HB	2:O:753:LYS:CE	2.28	0.62
2:O:578:ARG:HH21	2:O:590:LYS:HD2	1.63	0.62
2:Q:147:ARG:O	2:Q:150:LYS:HG2	1.99	0.62
2:Q:223:ILE:CD1	2:Q:227:PHE:HA	2.29	0.62
2:Q:606:SER:HB3	2:Q:650:ILE:HG12	1.81	0.62
2:R:599:LEU:HD12	2:R:709:ALA:HB1	1.81	0.62
1:A:614:ALA:HB1	1:A:660:LEU:HD21	1.81	0.62
1:C:220:ARG:NH1	1:C:254:PHE:O	2.30	0.62
1:E:364:ASN:O	1:E:367:GLN:NE2	2.32	0.62
1:G:33:VAL:HG21	1:G:53:TRP:HZ3	1.63	0.62
1:I:553:LYS:NZ	1:I:671:GLU:OE2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:540:ILE:HD12	1:J:543:ARG:CZ	2.29	0.62
2:O:490:CYS:CA	2:O:496:LYS:HE2	2.29	0.62
2:P:277:GLU:HB2	2:P:286:ARG:NH2	2.12	0.62
2:P:356:LEU:CD2	2:P:358:LEU:HD11	2.29	0.62
2:P:886:LEU:HD23	2:P:887:LEU:HG	1.80	0.62
2:Q:370:GLU:HG3	2:Q:468:PRO:CB	2.20	0.62
2:R:107:LEU:HD11	2:R:218:ILE:HG22	1.81	0.62
2:R:455:LYS:HA	2:R:460:PHE:CE1	2.34	0.62
2:R:455:LYS:HA	2:R:460:PHE:HE1	1.64	0.62
2:R:744:ASN:CG	2:R:809:ASN:HB3	2.20	0.62
2:S:576:LEU:HD21	2:S:771:ALA:HB1	1.81	0.62
2:S:790:GLU:CD	2:S:839:HIS:HA	2.19	0.62
1:B:304:THR:HG22	1:B:308:GLN:OE1	2.00	0.62
1:C:20:LEU:HD23	1:C:290:ARG:HH21	1.63	0.62
2:M:313:MET:HG2	2:M:376:VAL:HG22	1.81	0.62
2:M:443:MET:HE2	2:M:496:LYS:CD	2.24	0.62
2:N:74:VAL:HG22	2:N:308:ILE:CG2	2.28	0.62
2:N:282:ARG:CA	2:N:285:GLU:HG3	2.21	0.62
2:N:370:GLU:HA	2:N:373:LYS:HD3	1.81	0.62
2:N:412:SER:OG	2:N:414:PRO:HD2	1.98	0.62
2:N:495:SER:O	2:N:499:GLN:HG3	1.98	0.62
2:N:573:MET:CE	2:N:619:PHE:HB3	2.29	0.62
2:N:741:PHE:CE1	2:N:745:LEU:HD21	2.34	0.62
2:O:37:LEU:HD11	2:O:309:GLN:NE2	2.13	0.62
2:O:299:LEU:HD12	2:O:300:LYS:N	2.15	0.62
2:O:390:LYS:N	2:O:416:LEU:HD11	2.14	0.62
2:O:607:SER:CB	2:O:625:LEU:HB2	2.28	0.62
2:O:625:LEU:O	2:O:629:ILE:HG12	1.98	0.62
2:P:332:THR:HB	2:P:336:MET:HE2	1.80	0.62
2:P:758:ARG:NE	2:P:927:TYR:O	2.32	0.62
2:Q:104:ILE:HD12	2:Q:215:ALA:C	2.20	0.62
2:Q:768:GLN:HE21	2:Q:931:THR:HG21	1.64	0.62
2:Q:770:ASN:OD1	2:Q:773:LYS:HG2	1.99	0.62
2:R:483:ALA:O	2:R:486:VAL:HG22	1.99	0.62
2:R:487:SER:HB2	2:R:491:GLN:NE2	2.12	0.62
2:S:163:GLY:O	2:S:196:LEU:HD11	2.00	0.62
2:S:576:LEU:HD21	2:S:771:ALA:CB	2.29	0.62
1:D:531:CYS:SG	1:D:703:ILE:HD12	2.39	0.62
1:F:604:ASP:O	1:F:608:GLU:OE1	2.17	0.62
1:G:100:THR:O	1:G:103:SER:OG	2.15	0.62
1:I:139:VAL:HG13	1:I:761:PHE:HE2	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:460:THR:O	1:I:464:ARG:NH1	2.32	0.62
1:J:203:ILE:HG22	1:J:207:ARG:NH2	2.14	0.62
2:M:108:PRO:CD	2:M:128:ARG:HD3	2.29	0.62
2:N:602:ALA:O	2:N:650:ILE:HG12	1.99	0.62
2:N:858:ILE:HG22	2:N:918:ASN:HB2	1.81	0.62
2:O:490:CYS:C	2:O:496:LYS:HE2	2.20	0.62
2:P:241:PHE:HA	2:P:246:LEU:CD2	2.30	0.62
2:P:569:VAL:HG13	2:P:574:VAL:CG2	2.27	0.62
2:P:741:PHE:CD1	2:P:782:PHE:HA	2.33	0.62
2:Q:70:ASN:ND2	2:Q:247:VAL:HG22	2.15	0.62
2:Q:117:ARG:NH1	2:R:167:LEU:O	2.29	0.62
2:Q:625:LEU:HD21	2:Q:851:LEU:HD23	1.81	0.62
2:R:501:LEU:HD12	2:R:734:ILE:HG23	1.80	0.62
2:R:764:ARG:HD3	2:R:863:CYS:SG	2.39	0.62
2:R:780:LEU:CD1	2:R:814:VAL:HG22	2.30	0.62
2:S:150:LYS:HG2	2:S:151:GLU:OE1	1.99	0.62
2:S:282:ARG:HA	2:S:285:GLU:OE2	1.99	0.62
2:S:355:GLY:HA2	2:S:413:VAL:HG12	1.81	0.62
2:S:632:ILE:HA	2:S:635:CYS:SG	2.39	0.62
1:B:148:LEU:O	1:B:351:ARG:N	2.25	0.62
1:D:143:ILE:O	1:D:147:CYS:N	2.32	0.62
1:J:745:LEU:HD23	1:J:786:VAL:CG1	2.28	0.62
1:L:10:VAL:HG22	1:L:14:ARG:NE	2.14	0.62
1:L:218:LEU:HA	1:L:221:VAL:HG12	1.80	0.62
2:M:135:ASP:OD1	2:M:138:LYS:NZ	2.33	0.62
2:M:255:ARG:HH21	2:S:436:TYR:HD2	1.47	0.62
2:M:282:ARG:HB3	2:M:286:ARG:HH12	1.63	0.62
2:M:388:THR:O	2:M:392:HIS:ND1	2.32	0.62
2:M:518:LEU:HD22	2:M:531:LEU:CD2	2.28	0.62
2:M:572:GLY:O	2:M:622:VAL:HG12	1.99	0.62
2:N:350:ASP:HB3	2:N:354:GLU:OE2	1.99	0.62
2:N:363:ASP:HA	2:N:366:MET:CG	2.29	0.62
2:O:313:MET:CE	2:O:328:ILE:HD12	2.30	0.62
2:O:810:PRO:HB3	2:O:813:SER:O	1.99	0.62
2:P:199:ILE:O	2:P:202:GLU:HG2	1.99	0.62
2:Q:208:CYS:SG	2:Q:245:LYS:HE2	2.39	0.62
2:Q:376:VAL:HG22	2:Q:377:ARG:NH1	2.14	0.62
2:Q:549:HIS:HA	2:Q:552:ASN:ND2	2.15	0.62
2:R:257:TYR:O	2:R:261:ILE:HG12	1.99	0.62
2:R:494:LEU:O	2:R:498:LEU:HD23	1.99	0.62
2:R:554:CYS:HB3	2:R:623:PHE:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:917:LEU:HD12	2:R:920:SER:CB	2.29	0.62
2:S:234:LEU:HD22	2:S:301:LEU:CD2	2.29	0.62
1:F:13:TYR:O	1:F:17:THR:HG23	2.00	0.62
1:L:160:SER:OG	1:L:163:GLU:OE2	2.15	0.62
2:M:594:ASP:HA	2:M:601:LYS:NZ	2.14	0.62
2:N:833:LYS:NZ	2:N:834:THR:O	2.32	0.62
2:P:234:LEU:HA	2:P:237:ILE:HD12	1.81	0.62
2:P:313:MET:CE	2:P:372:LEU:HD23	2.30	0.62
2:P:547:ALA:HB3	2:P:631:ASP:OD1	2.00	0.62
2:Q:256:LEU:HA	2:Q:259:GLN:OE1	2.00	0.62
2:Q:462:THR:HA	2:Q:464:PHE:CZ	2.35	0.62
2:Q:502:LEU:HB3	2:Q:550:TRP:CZ3	2.34	0.62
2:Q:549:HIS:CD2	2:Q:552:ASN:HD21	2.17	0.62
2:R:136:LYS:CE	2:R:211:LEU:HD22	2.29	0.62
2:R:418:ARG:CD	2:R:488:GLU:HG2	2.27	0.62
2:R:758:ARG:HG2	2:R:927:TYR:O	1.99	0.62
2:R:861:ILE:HD12	2:R:895:LEU:HB3	1.82	0.62
2:S:608:LEU:CD2	2:S:652:GLN:HE22	2.12	0.62
1:A:415:GLU:O	1:A:796:HIS:NE2	2.32	0.62
1:E:431:GLU:OE2	1:E:435:HIS:N	2.32	0.62
1:H:756:ASP:OD1	1:H:757:LEU:N	2.33	0.62
1:I:605:GLN:NE2	1:I:608:GLU:OE1	2.33	0.62
2:M:446:LEU:CD2	2:M:486:VAL:HA	2.30	0.62
2:M:506:GLY:HA2	2:M:738:TRP:CZ2	2.35	0.62
2:M:626:ILE:HA	2:M:629:ILE:HD12	1.79	0.62
2:N:42:VAL:HG22	2:N:93:LEU:CD2	2.29	0.62
2:N:205:LYS:HB2	2:N:206:ARG:NH1	2.15	0.62
2:N:470:SER:OG	2:N:476:ARG:N	2.33	0.62
2:O:367:TYR:HD2	2:O:370:GLU:OE2	1.82	0.62
2:O:424:SER:O	2:O:425:MET:HE2	1.99	0.62
2:O:638:GLU:OE2	2:O:640:SER:OG	2.18	0.62
2:O:755:ARG:NH1	2:O:812:THR:OG1	2.33	0.62
2:O:763:GLY:CA	2:O:773:LYS:HE2	2.30	0.62
2:P:772:ALA:HA	2:P:917:LEU:HD23	1.82	0.62
2:P:787:LEU:HD11	2:P:824:ILE:HD12	1.81	0.62
2:P:823:ILE:HA	2:P:827:LYS:HZ3	1.64	0.62
2:Q:553:ARG:O	2:Q:557:VAL:HG23	2.00	0.62
2:R:135:ASP:HA	2:R:138:LYS:NZ	2.15	0.62
2:R:773:LYS:HG2	2:R:860:GLY:CA	2.18	0.62
2:R:806:LEU:O	2:R:806:LEU:HG	1.99	0.62
2:S:519:ALA:HA	2:S:527:LYS:HZ3	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:GLU:N	1:A:173:GLU:OE1	2.33	0.62
1:C:14:ARG:NH2	1:C:31:SER:OG	2.33	0.62
1:C:26:ASP:OD1	1:C:27:GLU:N	2.33	0.62
1:D:374:LEU:HB3	1:D:400:VAL:HG11	1.79	0.62
2:M:532:ILE:O	2:M:536:VAL:HG23	1.99	0.62
2:M:536:VAL:HG13	2:M:541:VAL:CG1	2.30	0.62
2:N:573:MET:HE3	2:N:619:PHE:HB3	1.81	0.62
2:O:73:PHE:HB2	2:O:302:PHE:CD1	2.35	0.62
2:O:358:LEU:HD23	2:O:364:ALA:HB2	1.82	0.62
2:O:418:ARG:HG3	2:O:485:GLN:OE1	1.99	0.62
2:O:452:THR:HA	2:O:455:LYS:HG2	1.82	0.62
2:O:497:PHE:CE1	2:O:501:LEU:HD21	2.35	0.62
2:P:134:SER:O	2:P:138:LYS:HG2	1.98	0.62
2:P:137:LEU:HD21	2:P:150:LYS:HE2	1.81	0.62
2:P:218:ILE:CG1	2:P:248:VAL:HA	2.30	0.62
2:Q:747:ASN:OD1	2:Q:811:VAL:HG21	1.99	0.62
2:R:239:LYS:O	2:R:239:LYS:HD3	2.00	0.62
2:R:769:SER:HA	2:R:773:LYS:CD	2.15	0.62
2:S:177:PHE:CD2	2:S:181:LEU:HD11	2.34	0.62
2:S:356:LEU:CD1	2:S:358:LEU:HD11	2.30	0.62
2:S:380:MET:HA	2:S:383:LEU:HG	1.82	0.62
1:B:290:ARG:HA	1:B:293:TRP:CD1	2.33	0.62
1:C:523:ARG:NE	1:E:84:GLU:OE2	2.33	0.62
1:E:69:PRO:O	1:E:73:LEU:HD23	2.00	0.62
1:H:369:LEU:O	1:H:373:VAL:HG23	1.99	0.62
1:J:178:ASP:OD2	1:J:324:THR:HG23	1.98	0.62
1:J:333:SER:O	1:J:336:SER:OG	2.15	0.62
2:M:438:GLN:HA	2:M:441:PHE:CE1	2.35	0.62
2:M:506:GLY:O	2:M:510:ILE:HG23	2.00	0.62
2:M:611:VAL:HG12	2:M:613:SER:H	1.64	0.62
2:N:173:LYS:HE3	2:N:176:TYR:CD2	2.34	0.62
2:N:180:ALA:HA	2:N:194:GLN:OE1	2.00	0.62
2:N:218:ILE:CG2	2:N:246:LEU:HD21	2.28	0.62
2:N:593:ILE:CD1	2:N:604:MET:HG3	2.30	0.62
2:N:833:LYS:HE2	2:N:837:ASN:CB	2.30	0.62
2:P:289:MET:O	2:P:293:LEU:HD23	1.99	0.62
2:P:352:VAL:HG21	2:P:368:VAL:HG12	1.82	0.62
2:P:588:TYR:HE2	2:P:758:ARG:O	1.83	0.62
2:P:657:VAL:HG11	2:P:661:SER:HB3	1.82	0.62
2:Q:331:LYS:CE	2:Q:336:MET:HB2	2.29	0.62
2:Q:428:ASN:HB3	2:Q:474:ALA:HB1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:825:GLY:O	2:Q:829:LYS:HD3	1.99	0.62
2:R:412:SER:HB3	2:R:415:ASN:CG	2.20	0.62
2:R:803:GLY:O	2:R:807:ARG:NH2	2.33	0.62
2:S:281:VAL:O	2:S:285:GLU:OE1	2.18	0.62
2:S:599:LEU:HD13	2:S:709:ALA:HB1	1.79	0.62
1:A:756:ASP:OD1	1:A:757:LEU:N	2.33	0.62
1:G:659:TRP:O	1:G:669:ARG:NH1	2.33	0.62
1:L:509:GLY:O	1:L:512:SER:OG	2.15	0.62
2:M:510:ILE:HG13	2:M:511:PHE:N	2.15	0.62
2:M:846:ILE:O	2:M:852:HIS:NE2	2.27	0.62
2:N:37:LEU:HG	2:N:310:LEU:HD12	1.80	0.62
2:N:69:ARG:HA	2:N:69:ARG:CZ	2.30	0.62
2:N:217:LEU:HD11	2:N:249:VAL:HG23	1.81	0.62
2:N:414:PRO:HG2	2:N:491:GLN:NE2	2.15	0.62
2:N:511:PHE:HB2	2:N:535:TYR:CZ	2.35	0.62
2:N:776:ARG:NH1	2:N:860:GLY:O	2.32	0.62
2:O:104:ILE:O	2:O:105:LYS:HE2	1.98	0.62
2:O:377:ARG:NE	2:O:380:MET:SD	2.71	0.62
2:O:713:VAL:HG22	2:O:849:PRO:HG2	1.81	0.62
2:P:852:HIS:HA	2:P:855:ILE:HD12	1.81	0.62
2:Q:258:SER:O	2:Q:262:ARG:HG3	2.00	0.62
2:Q:303:PRO:CG	2:Q:306:LYS:HD3	2.30	0.62
2:Q:438:GLN:HE21	2:R:309:GLN:HE21	1.48	0.62
2:Q:552:ASN:HD22	2:Q:653:THR:HG21	1.65	0.62
2:R:421:LEU:HB3	2:R:481:TYR:CD1	2.31	0.62
2:R:723:ILE:HG21	2:R:844:LEU:HD21	1.82	0.62
2:R:723:ILE:HD13	2:R:836:LYS:HE2	1.80	0.62
2:S:112:PRO:CA	2:S:115:LEU:HD12	2.20	0.62
2:S:314:LEU:HD11	2:S:369:ASN:ND2	2.12	0.62
2:S:512:ASN:O	2:S:516:THR:OG1	2.11	0.62
2:S:535:TYR:CZ	2:S:539:MET:HE1	2.35	0.62
2:S:622:VAL:HG22	2:S:626:ILE:HD11	1.81	0.62
1:C:522:LEU:O	1:C:699:ARG:NH2	2.33	0.61
1:D:778:ASP:OD1	1:D:781:ARG:NH2	2.33	0.61
1:E:585:VAL:HG12	1:E:589:HIS:CE1	2.34	0.61
2:M:239:LYS:HD3	2:S:114:LYS:HZ1	1.64	0.61
2:M:319:GLU:OE1	2:M:323:ALA:HB2	2.00	0.61
2:M:342:ILE:O	2:M:347:ALA:HB2	2.00	0.61
2:M:376:VAL:HA	2:M:379:LEU:CD2	2.30	0.61
2:M:571:LEU:HG	2:M:746:ASN:ND2	2.15	0.61
2:M:639:ARG:O	2:M:642:ILE:HB	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:720:VAL:CG2	2:M:844:LEU:HD22	2.29	0.61
2:M:771:ALA:HB2	2:M:922:ILE:HD11	1.80	0.61
2:O:131:LYS:HD3	2:P:183:LEU:HD13	1.82	0.61
2:O:136:LYS:HG2	2:O:211:LEU:HD11	1.81	0.61
2:O:612:ALA:HB3	2:O:655:CYS:O	1.99	0.61
2:O:833:LYS:HD3	2:O:834:THR:N	2.14	0.61
2:P:136:LYS:HE2	2:P:211:LEU:HD13	1.82	0.61
2:P:233:VAL:O	2:P:237:ILE:HG13	2.00	0.61
2:P:445:SER:HA	2:P:448:LYS:NZ	2.14	0.61
2:Q:83:THR:O	2:Q:86:ILE:HG22	2.00	0.61
2:Q:219:THR:HG22	2:Q:249:VAL:HB	1.82	0.61
2:Q:629:ILE:HD12	2:Q:848:CYS:SG	2.40	0.61
2:R:166:LEU:HD12	2:R:196:LEU:HG	1.81	0.61
2:R:355:GLY:CA	2:R:413:VAL:HG12	2.29	0.61
2:S:218:ILE:HD12	2:S:220:PHE:CE2	2.35	0.61
2:S:443:MET:SD	2:S:500:MET:HE3	2.40	0.61
2:S:510:ILE:O	2:S:514:PHE:HB2	1.99	0.61
2:S:769:SER:CB	2:S:773:LYS:HZ1	2.12	0.61
1:A:743:ILE:O	1:A:786:VAL:HG13	2.01	0.61
1:B:173:GLU:OE1	1:B:173:GLU:N	2.30	0.61
1:C:90:ILE:HD11	1:C:132:LEU:HD23	1.82	0.61
1:D:364:ASN:O	1:D:367:GLN:NE2	2.32	0.61
1:D:552:THR:OG1	1:D:555:THR:OG1	1.90	0.61
1:I:146:GLU:O	1:I:351:ARG:NH2	2.33	0.61
1:I:217:ILE:O	1:I:221:VAL:HG23	2.00	0.61
1:J:553:LYS:HE3	1:J:671:GLU:OE1	2.00	0.61
1:L:508:SER:OG	1:L:551:MET:HE3	2.00	0.61
2:M:612:ALA:HB3	2:M:655:CYS:C	2.21	0.61
2:N:810:PRO:HG2	2:N:817:PHE:HB2	1.82	0.61
2:O:489:ASN:HB2	2:O:500:MET:CE	2.30	0.61
2:P:443:MET:CE	2:P:489:ASN:HB3	2.30	0.61
2:P:599:LEU:HD21	2:P:849:PRO:HB2	1.80	0.61
2:P:864:SER:OG	2:P:866:LYS:HG2	2.00	0.61
2:Q:42:VAL:HG21	2:Q:92:SER:OG	2.00	0.61
2:Q:231:TRP:CD1	2:Q:264:LYS:HD3	2.35	0.61
2:Q:426:LEU:HA	2:Q:429:ILE:CG2	2.29	0.61
2:Q:645:ALA:O	2:Q:649:VAL:HG12	2.00	0.61
2:R:329:LYS:HD3	2:R:343:ASP:N	2.15	0.61
2:R:431:ARG:HH11	2:S:262:ARG:NH1	1.98	0.61
2:S:108:PRO:HG2	2:S:131:LYS:HZ1	1.63	0.61
2:S:568:GLY:HA2	2:S:570:PHE:CE1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:ALA:HB2	1:A:793:TYR:HD2	1.62	0.61
1:E:217:ILE:HG13	1:E:218:LEU:HD12	1.82	0.61
1:F:467:ASP:OD1	1:F:496:THR:HG22	2.00	0.61
1:H:31:SER:O	1:H:35:LEU:HD23	2.00	0.61
1:I:139:VAL:HG13	1:I:761:PHE:CE2	2.35	0.61
2:M:343:ASP:OD1	2:M:346:GLN:N	2.20	0.61
2:M:370:GLU:OE2	2:M:373:LYS:HE2	1.99	0.61
2:M:425:MET:HG2	2:M:477:ASN:HD22	1.65	0.61
2:M:555:CYS:HA	2:M:558:VAL:HG12	1.82	0.61
2:N:266:TYR:CZ	2:N:290:VAL:HG11	2.35	0.61
2:N:271:LYS:HG3	2:N:272:THR:N	2.16	0.61
2:N:418:ARG:HD3	2:N:485:GLN:HG3	1.81	0.61
2:N:425:MET:SD	2:N:477:ASN:HB2	2.40	0.61
2:N:493:SER:CB	2:N:496:LYS:HB2	2.30	0.61
2:N:573:MET:HB3	2:N:621:SER:HA	1.81	0.61
2:N:855:ILE:HD12	2:N:886:LEU:CD2	2.30	0.61
2:O:198:GLU:HA	2:O:201:GLU:OE2	1.99	0.61
2:P:524:ASP:OD2	2:P:526:GLU:HG2	1.99	0.61
2:P:536:VAL:O	2:P:543:ARG:NH1	2.27	0.61
2:P:543:ARG:HB2	2:Q:469:GLN:NE2	2.15	0.61
2:P:621:SER:OG	2:P:624:ASN:N	2.29	0.61
2:P:823:ILE:HG23	2:P:827:LYS:NZ	2.16	0.61
2:Q:381:GLN:NE2	2:R:303:PRO:HB3	2.15	0.61
2:Q:385:ASP:OD2	2:R:304:VAL:HG23	2.01	0.61
2:R:75:ASP:OD2	2:R:309:GLN:HA	2.00	0.61
2:R:314:LEU:CA	2:R:317:VAL:HG22	2.24	0.61
2:R:784:HIS:HA	2:R:817:PHE:CE1	2.34	0.61
2:S:122:LEU:HD11	2:S:240:PHE:CD2	2.35	0.61
2:S:312:THR:O	2:S:316:LEU:HG	2.00	0.61
2:S:421:LEU:HG	2:S:425:MET:HE1	1.82	0.61
2:S:509:SER:CB	2:S:738:TRP:HE1	2.13	0.61
2:S:868:LEU:O	2:S:872:THR:HG23	2.00	0.61
1:D:634:LEU:O	1:D:637:TYR:N	2.33	0.61
1:G:377:TYR:CE1	1:G:416:LEU:HD23	2.35	0.61
1:K:680:LEU:HD11	1:K:685:VAL:HG22	1.82	0.61
2:M:320:LYS:HZ1	2:M:365:ASP:HB3	1.65	0.61
2:M:785:ALA:HA	2:M:788:VAL:HG22	1.81	0.61
2:N:151:GLU:O	2:N:154:GLN:NE2	2.33	0.61
2:N:366:MET:CE	2:N:469:GLN:HE21	2.13	0.61
2:N:607:SER:HB3	2:N:625:LEU:CD2	2.30	0.61
2:N:773:LYS:HG3	2:N:860:GLY:HA2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:833:LYS:HD3	2:N:834:THR:N	2.15	0.61
2:N:845:LEU:HA	2:N:848:CYS:SG	2.40	0.61
2:O:446:LEU:CD2	2:O:500:MET:HE1	2.30	0.61
2:O:448:LYS:NZ	2:O:536:VAL:HG21	2.16	0.61
2:O:740:ARG:HH12	2:O:788:VAL:HG11	1.65	0.61
2:P:237:ILE:HA	2:P:241:PHE:HD2	1.65	0.61
2:P:331:LYS:HD3	2:P:336:MET:HB2	1.82	0.61
2:P:569:VAL:HG22	2:P:574:VAL:CG1	2.29	0.61
2:P:780:LEU:HD11	2:P:814:VAL:CG1	2.30	0.61
2:P:806:LEU:HG	2:P:808:LEU:HG	1.82	0.61
2:Q:337:GLN:O	2:Q:339:ILE:HD12	2.01	0.61
2:Q:834:THR:O	2:Q:838:THR:HG22	2.01	0.61
2:R:103:ASN:N	2:R:214:LYS:HE2	2.13	0.61
2:R:137:LEU:HB3	2:R:150:LYS:CE	2.30	0.61
2:R:283:LEU:CD1	2:R:286:ARG:HH22	2.11	0.61
2:S:207:ALA:O	2:S:211:LEU:HD23	1.99	0.61
2:S:438:GLN:HA	2:S:441:PHE:CE1	2.36	0.61
2:S:511:PHE:HB2	2:S:535:TYR:OH	2.01	0.61
1:E:37:GLN:HE22	1:E:49:ALA:HB1	1.65	0.61
1:H:360:LYS:H	1:H:366:MET:HE1	1.65	0.61
1:K:552:THR:OG1	1:K:555:THR:HG23	2.01	0.61
2:M:357:ASN:ND2	2:M:728:ARG:HD3	2.15	0.61
2:M:374:GLN:N	2:M:374:GLN:OE1	2.33	0.61
2:M:385:ASP:HB2	2:N:304:VAL:HG23	1.83	0.61
2:M:421:LEU:CD2	2:M:481:TYR:HA	2.31	0.61
2:M:547:ALA:HB3	2:M:627:GLY:O	2.00	0.61
2:N:111:ASP:CG	2:N:114:LYS:HB2	2.20	0.61
2:N:418:ARG:CG	2:N:485:GLN:HE21	2.11	0.61
2:O:107:LEU:HG	2:O:132:MET:SD	2.40	0.61
2:O:153:TRP:HD1	2:O:206:ARG:HE	1.49	0.61
2:O:494:LEU:HD21	2:O:498:LEU:HD11	1.83	0.61
2:O:762:HIS:O	2:O:764:ARG:HD2	2.00	0.61
2:Q:173:LYS:HZ2	2:Q:175:GLU:HB2	1.65	0.61
2:Q:377:ARG:HA	2:Q:380:MET:HG2	1.82	0.61
2:Q:446:LEU:HD22	2:Q:489:ASN:OD1	1.99	0.61
2:Q:891:GLU:HG2	2:Q:910:PHE:CE2	2.36	0.61
2:R:69:ARG:N	2:R:303:PRO:HG2	2.15	0.61
2:R:448:LYS:HB3	2:R:542:GLY:CA	2.29	0.61
2:R:467:ARG:CZ	2:R:468:PRO:HD2	2.31	0.61
2:R:551:ALA:HB1	2:R:624:ASN:HA	1.82	0.61
2:R:564:ASP:O	2:R:565:GLU:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:712:LYS:HD2	2:R:849:PRO:CB	2.28	0.61
2:S:769:SER:HA	2:S:773:LYS:CE	2.29	0.61
1:C:139:VAL:HG13	1:C:761:PHE:HE2	1.64	0.61
1:F:329:GLU:N	1:F:329:GLU:OE1	2.33	0.61
1:I:585:VAL:HG12	1:I:589:HIS:NE2	2.16	0.61
1:J:405:GLU:OE2	1:J:458:ARG:NH1	2.31	0.61
2:M:160:LEU:O	2:M:164:LEU:HB2	2.00	0.61
2:M:261:ILE:HB	2:M:294:GLU:HG2	1.83	0.61
2:M:273:LEU:HD12	2:M:277:GLU:OE1	2.01	0.61
2:M:282:ARG:HB3	2:M:286:ARG:NH1	2.15	0.61
2:N:505:CYS:HB3	2:N:738:TRP:CG	2.36	0.61
2:O:104:ILE:C	2:O:105:LYS:HE2	2.21	0.61
2:O:235:GLU:O	2:O:239:LYS:HE2	1.99	0.61
2:P:219:THR:HA	2:P:249:VAL:HG23	1.80	0.61
2:Q:237:ILE:HA	2:Q:241:PHE:HB2	1.83	0.61
2:Q:757:TYR:CD2	2:Q:931:THR:HG22	2.35	0.61
2:Q:776:ARG:NH1	2:Q:861:ILE:HA	2.15	0.61
2:R:329:LYS:HD2	2:R:341:ALA:HB3	1.82	0.61
2:S:369:ASN:O	2:S:373:LYS:HG3	2.01	0.61
2:S:806:LEU:HG	2:S:808:LEU:HG	1.83	0.61
1:D:215:ARG:NE	1:D:269:GLU:OE2	2.31	0.61
1:E:123:SER:OG	1:E:124:GLN:NE2	2.33	0.61
1:E:136:HIS:HB3	1:E:139:VAL:HG22	1.81	0.61
1:F:199:LEU:HD12	1:F:207:ARG:NH2	2.15	0.61
1:I:82:LYS:O	1:I:89:LYS:N	2.30	0.61
1:I:221:VAL:HG21	1:I:288:LEU:HD21	1.82	0.61
1:J:45:PRO:O	1:J:47:HIS:ND1	2.33	0.61
1:L:659:TRP:HA	1:L:665:VAL:HG11	1.83	0.61
2:M:320:LYS:HB2	2:M:322:LYS:NZ	2.15	0.61
2:M:444:ASP:O	2:M:542:GLY:HA2	2.01	0.61
2:M:466:LEU:CD1	2:M:482:LEU:HD12	2.29	0.61
2:M:575:GLN:O	2:M:923:VAL:HG12	2.01	0.61
2:N:591:PHE:CE1	2:N:917:LEU:HD12	2.35	0.61
2:N:745:LEU:HA	2:N:748:VAL:CG2	2.30	0.61
2:N:852:HIS:HA	2:N:855:ILE:HG13	1.82	0.61
2:N:910:PHE:HB3	2:N:913:THR:CG2	2.31	0.61
2:O:173:LYS:HG2	2:O:174:PRO:HD2	1.82	0.61
2:O:269:TYR:HB3	2:O:274:LEU:HD21	1.83	0.61
2:O:510:ILE:HG13	2:O:554:CYS:SG	2.40	0.61
2:P:210:ILE:HG13	2:P:211:LEU:CD2	2.31	0.61
2:P:370:GLU:HG2	2:P:468:PRO:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:446:LEU:HD23	2:P:500:MET:CE	2.30	0.61
2:P:582:GLN:HG2	2:P:584:MET:HB3	1.83	0.61
2:P:628:ALA:HB1	2:P:649:VAL:HG21	1.81	0.61
2:P:784:HIS:O	2:P:788:VAL:HG23	2.01	0.61
2:Q:317:VAL:CG2	2:Q:372:LEU:HD21	2.30	0.61
2:Q:440:ARG:CZ	2:R:373:LYS:HD2	2.30	0.61
2:Q:727:ILE:HG12	2:Q:729:PRO:HD3	1.81	0.61
2:R:199:ILE:HA	2:R:202:GLU:OE1	2.00	0.61
2:R:271:LYS:O	2:R:275:GLU:HG3	2.01	0.61
2:R:704:THR:N	2:R:707:SER:OG	2.33	0.61
2:S:259:GLN:HG3	2:S:262:ARG:NH2	2.14	0.61
2:S:389:LYS:HG3	2:S:416:LEU:CD2	2.28	0.61
2:S:490:CYS:SG	2:S:500:MET:HG3	2.41	0.61
2:S:758:ARG:HG2	2:S:927:TYR:O	1.98	0.61
1:D:177:ARG:NE	1:D:180:GLU:OE2	2.32	0.61
1:F:92:LEU:HD12	1:F:134:PRO:HB3	1.83	0.61
1:F:418:LEU:HD23	1:F:463:ILE:HG12	1.82	0.61
1:G:560:LEU:HD21	1:G:583:GLU:OE2	2.00	0.61
1:H:743:ILE:O	1:H:786:VAL:HG13	1.99	0.61
1:I:148:LEU:HD13	1:I:757:LEU:HD22	1.82	0.61
1:J:101:LEU:O	1:J:105:VAL:HG22	2.01	0.61
2:M:646:PHE:CZ	2:M:713:VAL:HG11	2.36	0.61
2:M:819:LYS:HE3	2:M:820:LYS:NZ	2.14	0.61
2:N:89:VAL:O	2:N:93:LEU:HD23	2.00	0.61
2:O:769:SER:CA	2:O:773:LYS:HD2	2.29	0.61
2:O:854:PHE:O	2:O:857:PRO:HD3	2.01	0.61
2:P:262:ARG:HD2	2:P:294:GLU:CD	2.21	0.61
2:P:465:TYR:HB2	2:P:467:ARG:NH1	2.15	0.61
2:P:621:SER:OG	2:P:624:ASN:HB2	2.00	0.61
2:Q:164:LEU:O	2:Q:167:LEU:HG	2.01	0.61
2:Q:231:TRP:O	2:Q:235:GLU:HG2	1.99	0.61
2:Q:261:ILE:CA	2:Q:264:LYS:HE3	2.30	0.61
2:R:269:TYR:CD1	2:R:273:LEU:HD23	2.36	0.61
2:R:333:GLU:OE2	2:R:334:PRO:HD2	2.00	0.61
2:R:849:PRO:O	2:R:853:PRO:HD3	2.00	0.61
2:S:713:VAL:HA	2:S:849:PRO:CG	2.22	0.61
1:A:502:ASP:OD1	1:A:503:PHE:N	2.34	0.61
1:A:510:ILE:HG23	1:A:692:VAL:HG21	1.83	0.61
1:D:53:TRP:CZ2	1:D:57:VAL:HG11	2.35	0.61
1:G:722:HIS:CG	1:G:724:ILE:HG22	2.36	0.61
1:J:81:ILE:HG23	1:J:114:HIS:CD2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:82:LYS:O	2:N:86:ILE:HG23	2.00	0.61
2:N:412:SER:HB3	2:N:415:ASN:CG	2.21	0.61
2:O:462:THR:HB	2:O:465:TYR:CD2	2.35	0.61
2:O:802:ILE:HG12	2:O:807:ARG:HD2	1.82	0.61
2:P:37:LEU:HD12	2:P:309:GLN:HE21	1.65	0.61
2:P:376:VAL:HG22	2:P:380:MET:HE2	1.82	0.61
2:Q:430:TYR:CZ	2:R:255:ARG:HG2	2.35	0.61
2:Q:580:SER:HB2	2:Q:589:LYS:HZ3	1.65	0.61
2:Q:636:ARG:NE	2:Q:638:GLU:HB3	2.16	0.61
2:R:136:LYS:HZ1	2:R:210:ILE:HB	1.66	0.61
2:R:285:GLU:HA	2:R:288:TYR:HD2	1.66	0.61
2:S:111:ASP:O	2:S:115:LEU:HG	2.01	0.61
1:C:604:ASP:O	1:C:608:GLU:OE1	2.18	0.61
1:D:28:ARG:HG2	1:D:29:VAL:N	2.15	0.61
1:D:35:LEU:O	1:D:39:GLU:OE1	2.19	0.61
1:F:415:GLU:O	1:F:796:HIS:NE2	2.34	0.61
2:M:82:LYS:O	2:M:86:ILE:HG12	2.01	0.61
2:M:108:PRO:HB2	2:N:191:ILE:HG13	1.82	0.61
2:M:622:VAL:O	2:M:626:ILE:HG12	2.00	0.61
2:M:855:ILE:HD12	2:M:886:LEU:HD22	1.81	0.61
2:M:861:ILE:CD1	2:M:895:LEU:HD13	2.31	0.61
2:N:70:ASN:OD1	2:N:247:VAL:HG22	2.01	0.61
2:N:116:PRO:HB2	2:N:119:GLU:OE2	2.00	0.61
2:N:337:GLN:O	2:N:339:ILE:HD12	2.01	0.61
2:N:427:SER:HB3	2:O:295:GLN:CG	2.31	0.61
2:N:473:GLU:OE1	2:N:476:ARG:NH2	2.34	0.61
2:O:370:GLU:OE2	2:O:468:PRO:HD2	2.01	0.61
2:O:875:ASN:HB3	2:O:876:LYS:NZ	2.16	0.61
2:P:37:LEU:HG	2:P:308:ILE:HD11	1.83	0.61
2:P:147:ARG:HB3	2:P:149:GLN:OE1	2.00	0.61
2:P:309:GLN:HE22	2:P:311:LYS:HB3	1.66	0.61
2:P:559:ALA:O	2:P:562:PRO:HD2	2.00	0.61
2:P:611:VAL:O	2:P:616:LEU:HD13	2.01	0.61
2:P:834:THR:O	2:P:838:THR:HG22	2.01	0.61
2:Q:440:ARG:NH2	2:R:373:LYS:HD2	2.16	0.61
2:R:231:TRP:CE2	2:R:264:LYS:HE3	2.36	0.61
2:S:616:LEU:O	2:S:616:LEU:HG	2.00	0.61
2:S:622:VAL:HG22	2:S:626:ILE:CD1	2.31	0.61
1:F:35:LEU:O	1:F:39:GLU:OE1	2.19	0.60
1:F:778:ASP:OD1	1:F:781:ARG:NH2	2.33	0.60
1:G:178:ASP:OD2	1:G:324:THR:OG1	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:84:GLU:O	1:I:86:GLY:N	2.34	0.60
1:K:784:ALA:O	1:K:788:GLU:OE1	2.19	0.60
2:M:204:VAL:HG21	2:M:246:LEU:HD11	1.83	0.60
2:M:266:TYR:HA	2:M:269:TYR:CD2	2.36	0.60
2:M:547:ALA:N	2:M:631:ASP:OD1	2.29	0.60
2:M:752:HIS:HE1	2:M:811:VAL:HG12	1.66	0.60
2:N:121:ILE:O	2:N:124:THR:OG1	2.15	0.60
2:O:111:ASP:O	2:O:115:LEU:HG	2.00	0.60
2:O:204:VAL:HG11	2:O:246:LEU:HD11	1.83	0.60
2:O:332:THR:HB	2:O:336:MET:HE1	1.83	0.60
2:P:205:LYS:CE	2:P:245:LYS:HD3	2.30	0.60
2:P:498:LEU:O	2:P:502:LEU:HD23	2.00	0.60
2:P:828:LEU:HB3	2:P:833:LYS:O	2.00	0.60
2:Q:231:TRP:CB	2:Q:260:LEU:HD21	2.31	0.60
2:Q:501:LEU:HD12	2:Q:502:LEU:HG	1.82	0.60
2:R:108:PRO:HB2	2:R:128:ARG:NE	2.14	0.60
2:R:359:ARG:HG3	2:R:795:SER:HA	1.83	0.60
2:R:554:CYS:HB3	2:R:623:PHE:CZ	2.36	0.60
2:S:234:LEU:HB3	2:S:238:ARG:NH1	2.14	0.60
2:S:282:ARG:HA	2:S:285:GLU:OE1	2.00	0.60
2:S:390:LYS:NZ	2:S:413:VAL:HA	2.16	0.60
2:S:518:LEU:HD12	2:S:531:LEU:HD11	1.83	0.60
1:C:81:ILE:HG23	1:C:132:LEU:HD21	1.82	0.60
1:C:95:PHE:O	1:C:99:GLN:OE1	2.19	0.60
1:K:216:GLU:OE2	1:K:256:THR:N	2.33	0.60
2:M:319:GLU:O	2:M:320:LYS:HD2	2.00	0.60
2:M:376:VAL:O	2:M:379:LEU:HG	2.02	0.60
2:M:713:VAL:HG22	2:M:849:PRO:CG	2.30	0.60
2:N:370:GLU:OE1	2:N:373:LYS:NZ	2.26	0.60
2:N:425:MET:HA	2:O:295:GLN:HE22	1.66	0.60
2:N:815:ASP:HA	2:N:870:LYS:CE	2.31	0.60
2:O:160:LEU:HD12	2:O:161:GLN:N	2.16	0.60
2:P:127:ALA:HB1	2:P:131:LYS:HZ3	1.65	0.60
2:P:569:VAL:CG1	2:P:574:VAL:HG22	2.30	0.60
2:P:575:GLN:OE1	2:P:617:MET:HG2	2.02	0.60
2:P:758:ARG:HG2	2:P:927:TYR:O	2.00	0.60
2:Q:366:MET:SD	2:Q:367:TYR:N	2.74	0.60
2:Q:891:GLU:HA	2:Q:910:PHE:CE2	2.36	0.60
2:R:198:GLU:OE2	2:R:199:ILE:HG13	2.01	0.60
2:R:751:GLN:OE1	2:R:811:VAL:CB	2.47	0.60
2:R:849:PRO:HA	2:R:852:HIS:ND1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:110:ILE:HB	2:S:219:THR:O	2.01	0.60
2:S:219:THR:HA	2:S:249:VAL:HG23	1.83	0.60
2:S:282:ARG:O	2:S:286:ARG:HG2	2.00	0.60
2:S:604:MET:HA	2:S:854:PHE:HZ	1.66	0.60
2:S:716:TRP:CE3	2:S:717:LEU:HD12	2.36	0.60
1:B:80:PHE:CZ	1:B:101:LEU:HD11	2.36	0.60
1:C:716:TYR:HH	1:C:723:HIS:CE1	2.16	0.60
1:G:44:LEU:HD21	1:G:49:ALA:H	1.67	0.60
1:I:214:ILE:HG21	1:I:295:TYR:HB2	1.83	0.60
1:J:270:PHE:O	1:J:274:THR:HG23	2.01	0.60
1:K:225:VAL:HG23	1:K:225:VAL:O	2.01	0.60
1:K:502:ASP:OD1	1:K:503:PHE:N	2.34	0.60
2:M:418:ARG:HA	2:M:421:LEU:HD13	1.82	0.60
2:M:588:TYR:HB3	2:M:921:THR:OG1	2.01	0.60
2:N:279:GLU:HG3	2:N:282:ARG:HH12	1.65	0.60
2:N:826:GLU:O	2:N:829:LYS:HG2	2.01	0.60
2:O:178:SER:HA	2:O:181:LEU:HG	1.82	0.60
2:O:852:HIS:HB3	2:O:886:LEU:CD1	2.28	0.60
2:P:415:ASN:HB3	2:P:488:GLU:CG	2.31	0.60
2:P:436:TYR:HB3	2:Q:255:ARG:CZ	2.32	0.60
2:P:596:GLU:C	2:P:601:LYS:HB2	2.21	0.60
2:R:114:LYS:C	2:R:115:LEU:HD22	2.21	0.60
2:R:872:THR:HG22	2:R:892:TRP:HE1	1.66	0.60
2:S:374:GLN:O	2:S:379:LEU:HD23	2.00	0.60
1:A:333:SER:OG	1:A:337:ARG:NH2	2.35	0.60
1:B:507:ILE:HD11	1:B:680:LEU:CD2	2.32	0.60
1:B:779:ALA:O	1:B:783:VAL:HG23	2.01	0.60
1:D:209:GLN:NE2	1:D:242:ASN:O	2.34	0.60
1:I:405:GLU:OE1	1:I:458:ARG:NH1	2.34	0.60
2:M:148:LYS:HA	2:M:151:GLU:OE2	2.01	0.60
2:M:642:ILE:HD11	2:M:717:LEU:HD22	1.82	0.60
2:N:304:VAL:HA	2:N:307:ARG:NH2	2.16	0.60
2:N:529:GLU:HA	2:N:532:ILE:HG12	1.84	0.60
2:N:576:LEU:HD12	2:N:577:ASN:N	2.15	0.60
2:O:297:TYR:CD2	2:O:301:LEU:HD23	2.37	0.60
2:O:756:LEU:HD23	2:O:769:SER:O	2.02	0.60
2:P:73:PHE:HD1	2:P:250:ALA:HB3	1.65	0.60
2:P:76:GLY:HA3	2:P:82:LYS:HE2	1.83	0.60
2:P:353:ARG:HH21	2:P:360:GLU:HG3	1.66	0.60
2:P:539:MET:HE2	2:P:553:ARG:HB3	1.83	0.60
2:P:591:PHE:HZ	2:P:593:ILE:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:771:ALA:HA	2:P:774:ILE:CD1	2.22	0.60
2:Q:567:ILE:HB	2:Q:753:LYS:HZ2	1.64	0.60
2:R:491:GLN:OE1	2:R:491:GLN:HA	2.01	0.60
2:R:639:ARG:CZ	2:R:714:GLU:HG3	2.32	0.60
2:S:282:ARG:HA	2:S:285:GLU:CD	2.21	0.60
2:S:492:GLY:CA	2:S:727:ILE:HG22	2.32	0.60
2:S:801:TYR:O	2:S:827:LYS:HD2	2.01	0.60
1:C:178:ASP:OD2	1:C:324:THR:N	2.34	0.60
1:C:716:TYR:OH	1:C:723:HIS:ND1	2.18	0.60
1:D:271:CYS:O	1:D:274:THR:OG1	2.19	0.60
1:H:663:ASP:OD1	1:H:664:ASN:N	2.33	0.60
1:J:472:GLU:OE2	1:J:501:GLU:N	2.34	0.60
2:M:426:LEU:HA	2:M:429:ILE:CG1	2.32	0.60
2:M:762:HIS:HB2	2:M:764:ARG:NH1	2.11	0.60
2:N:38:ARG:HD2	2:N:39:ASP:N	2.17	0.60
2:N:256:LEU:HA	2:N:259:GLN:HE22	1.64	0.60
2:N:559:ALA:O	2:N:562:PRO:HD2	2.02	0.60
2:O:415:ASN:HB3	2:O:488:GLU:OE2	2.02	0.60
2:O:490:CYS:HA	2:O:496:LYS:CE	2.31	0.60
2:P:418:ARG:HD3	2:P:488:GLU:CG	2.30	0.60
2:Q:376:VAL:HG22	2:Q:377:ARG:HH11	1.66	0.60
2:Q:568:GLY:HA3	2:Q:575:GLN:HB3	1.82	0.60
2:R:110:ILE:HG13	2:R:128:ARG:HH11	1.66	0.60
2:R:329:LYS:HD2	2:R:341:ALA:CB	2.31	0.60
2:R:736:LYS:HG2	2:R:793:TYR:CE2	2.36	0.60
1:A:140:GLU:O	1:A:144:THR:HG23	2.01	0.60
1:B:44:LEU:HD21	1:B:49:ALA:HB2	1.83	0.60
1:E:21:ASP:OD2	1:E:235:GLN:NE2	2.33	0.60
1:E:213:ASN:ND2	1:E:240:LEU:O	2.35	0.60
1:E:756:ASP:OD1	1:E:757:LEU:N	2.35	0.60
1:G:511:ARG:NH2	1:G:559:ASP:OD1	2.34	0.60
2:M:135:ASP:HA	2:M:138:LYS:NZ	2.17	0.60
2:M:312:THR:HG23	2:M:315:GLN:H	1.66	0.60
2:M:452:THR:HA	2:M:455:LYS:HZ3	1.67	0.60
2:M:548:SER:N	2:M:631:ASP:OD2	2.33	0.60
2:N:456:GLN:CG	2:N:475:LEU:HD21	2.31	0.60
2:N:771:ALA:HB1	2:N:917:LEU:HD11	1.83	0.60
2:O:108:PRO:CD	2:O:132:MET:HE1	2.29	0.60
2:O:429:ILE:O	2:O:432:ALA:HB3	2.02	0.60
2:O:764:ARG:HG3	2:O:863:CYS:SG	2.42	0.60
2:P:118:HIS:CB	2:Q:172:TYR:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:313:MET:HA	2:P:316:LEU:CD2	2.30	0.60
2:P:502:LEU:HB3	2:P:550:TRP:CZ3	2.36	0.60
2:P:658:PRO:HB2	2:P:660:TRP:CH2	2.37	0.60
2:P:768:GLN:HG3	2:P:931:THR:HG21	1.84	0.60
2:S:35:LYS:HG2	2:S:38:ARG:NH2	2.16	0.60
1:B:565:ARG:NE	1:B:566:GLU:OE2	2.22	0.60
1:G:271:CYS:O	1:G:274:THR:OG1	2.18	0.60
1:G:511:ARG:HD3	1:G:559:ASP:HA	1.84	0.60
1:G:718:ASN:CG	1:G:720:SER:HG	2.00	0.60
1:J:295:TYR:O	1:J:299:GLN:HG2	2.02	0.60
1:K:553:LYS:NZ	1:K:672:TYR:O	2.34	0.60
1:L:303:LEU:HB3	1:L:753:PHE:CE1	2.36	0.60
2:N:121:ILE:O	2:N:125:VAL:HG23	2.01	0.60
2:N:131:LYS:HE3	2:O:192:GLY:H	1.66	0.60
2:N:460:PHE:HB3	2:N:512:ASN:CG	2.21	0.60
2:N:548:SER:HB3	2:N:631:ASP:OD2	2.01	0.60
2:N:810:PRO:HA	2:N:816:GLU:OE2	2.01	0.60
2:O:69:ARG:HG3	2:O:70:ASN:N	2.14	0.60
2:O:70:ASN:ND2	2:O:246:LEU:O	2.34	0.60
2:O:227:PHE:HD2	2:O:260:LEU:CD2	2.08	0.60
2:O:289:MET:O	2:O:293:LEU:HD23	2.02	0.60
2:O:612:ALA:HA	2:O:616:LEU:HD23	1.83	0.60
2:O:748:VAL:HG12	2:O:811:VAL:HA	1.83	0.60
2:P:732:LEU:HD12	2:P:733:LEU:N	2.17	0.60
2:P:823:ILE:O	2:P:827:LYS:HE2	2.00	0.60
2:P:913:THR:O	2:P:915:THR:HG23	2.00	0.60
2:Q:140:TYR:CE2	2:Q:147:ARG:HD2	2.37	0.60
2:Q:238:ARG:HG3	2:Q:239:LYS:CE	2.26	0.60
2:Q:498:LEU:HD23	2:Q:501:LEU:HD21	1.82	0.60
2:Q:569:VAL:HG22	2:Q:574:VAL:HG13	1.84	0.60
2:Q:628:ALA:CB	2:Q:649:VAL:HG21	2.31	0.60
2:Q:727:ILE:CD1	2:Q:841:LEU:HD21	2.32	0.60
2:Q:805:GLY:H	2:Q:807:ARG:HH12	1.50	0.60
2:R:389:LYS:CB	2:R:416:LEU:HD12	2.32	0.60
2:R:604:MET:SD	2:R:914:ILE:HG12	2.41	0.60
2:R:866:LYS:O	2:R:870:LYS:HE2	2.00	0.60
2:S:575:GLN:O	2:S:923:VAL:HG12	2.00	0.60
1:B:643:LEU:HD22	1:B:653:LEU:HD21	1.84	0.60
1:D:6:LEU:O	1:D:300:ASN:ND2	2.34	0.60
1:E:702:ALA:HB2	1:E:793:TYR:CE2	2.37	0.60
1:G:214:ILE:HG21	1:G:295:TYR:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:522:LEU:O	1:J:699:ARG:NH2	2.35	0.60
1:K:663:ASP:OD1	1:K:664:ASN:N	2.34	0.60
2:M:128:ARG:HH21	2:N:191:ILE:CG1	2.11	0.60
2:M:864:SER:O	2:M:868:LEU:N	2.22	0.60
2:N:195:ASP:HB3	2:N:198:GLU:HG2	1.82	0.60
2:O:378:LEU:HD21	2:O:425:MET:CE	2.31	0.60
2:O:855:ILE:HG21	2:O:886:LEU:CD2	2.32	0.60
2:O:878:ILE:HG13	2:O:879:ASP:N	2.15	0.60
2:P:228:ASP:HA	2:P:260:LEU:HD21	1.84	0.60
2:P:606:SER:HB3	2:P:650:ILE:HG12	1.84	0.60
2:Q:71:VAL:HG11	2:Q:302:PHE:HE1	1.67	0.60
2:Q:265:GLN:HE22	2:Q:294:GLU:HA	1.66	0.60
2:Q:381:GLN:HE22	2:R:305:GLN:CD	2.05	0.60
2:Q:436:TYR:CE2	2:R:255:ARG:HD2	2.36	0.60
2:Q:740:ARG:NH1	2:Q:788:VAL:HG11	2.17	0.60
2:Q:858:ILE:HD12	2:Q:915:THR:CB	2.31	0.60
2:Q:878:ILE:HG13	2:Q:879:ASP:N	2.17	0.60
2:R:559:ALA:HA	2:R:570:PHE:CE2	2.36	0.60
2:S:163:GLY:O	2:S:166:LEU:HG	2.02	0.60
2:S:418:ARG:HB3	2:S:484:SER:OG	2.02	0.60
2:S:432:ALA:HB3	2:S:434:LEU:HG	1.84	0.60
2:S:512:ASN:HA	2:S:516:THR:HG21	1.82	0.60
1:C:718:ASN:ND2	1:C:720:SER:OG	2.35	0.60
1:D:552:THR:HG22	1:D:672:TYR:HE1	1.66	0.60
1:F:596:GLU:N	1:F:596:GLU:OE1	2.34	0.60
1:I:589:HIS:O	1:I:593:SER:N	2.34	0.60
1:J:95:PHE:O	1:J:99:GLN:OE1	2.20	0.60
1:L:388:GLU:OE2	1:L:390:VAL:N	2.35	0.60
2:M:71:VAL:O	2:M:306:LYS:HE3	2.02	0.60
2:M:274:LEU:HD12	2:N:276:GLN:OE1	2.01	0.60
2:M:355:GLY:CA	2:M:417:LEU:HD13	2.17	0.60
2:M:607:SER:HB3	2:M:625:LEU:CD2	2.31	0.60
2:M:852:HIS:HA	2:M:855:ILE:HG13	1.84	0.60
2:N:133:VAL:O	2:N:137:LEU:HG	2.02	0.60
2:N:218:ILE:HG13	2:N:220:PHE:HE2	1.67	0.60
2:N:858:ILE:O	2:N:918:ASN:HB2	2.01	0.60
2:O:70:ASN:HB2	2:O:244:ARG:HH21	1.66	0.60
2:O:482:LEU:O	2:O:486:VAL:HG23	2.01	0.60
2:O:514:PHE:CE1	2:O:558:VAL:HG23	2.36	0.60
2:P:314:LEU:CA	2:P:317:VAL:HG22	2.31	0.60
2:P:370:GLU:O	2:P:370:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:756:LEU:HB3	2:P:927:TYR:HE1	1.67	0.60
2:Q:394:THR:O	2:Q:395:SER:HB2	2.02	0.60
2:Q:415:ASN:OD1	2:Q:416:LEU:N	2.35	0.60
2:R:49:ILE:CD1	2:R:104:ILE:HD11	2.31	0.60
2:R:452:THR:O	2:R:455:LYS:HG2	2.02	0.60
2:S:574:VAL:HG12	2:S:576:LEU:HD22	1.82	0.60
1:E:605:GLN:HA	1:E:608:GLU:OE1	2.02	0.60
1:H:446:ALA:HB2	1:H:483:LEU:HD11	1.83	0.60
1:I:220:ARG:O	1:I:225:VAL:HG22	2.02	0.60
1:K:270:PHE:O	1:K:274:THR:HG23	2.02	0.60
2:M:110:ILE:HG13	2:M:128:ARG:NH1	2.16	0.60
2:M:334:PRO:HG2	2:M:391:TYR:CZ	2.37	0.60
2:M:428:ASN:ND2	2:N:295:GLN:HE22	1.99	0.60
2:N:538:TYR:CE2	2:N:658:PRO:HB3	2.37	0.60
2:O:49:ILE:HG21	2:O:104:ILE:CD1	2.31	0.60
2:O:357:ASN:O	2:O:730:SER:HB3	2.02	0.60
2:O:382:VAL:HG13	2:O:383:LEU:HD22	1.84	0.60
2:O:415:ASN:HB3	2:O:488:GLU:CD	2.21	0.60
2:O:876:LYS:O	2:O:880:GLU:HG2	2.02	0.60
2:P:568:GLY:O	2:P:575:GLN:N	2.32	0.60
2:P:801:TYR:OH	2:P:833:LYS:HE3	2.02	0.60
2:Q:103:ASN:ND2	2:Q:213:CYS:HA	2.17	0.60
2:Q:412:SER:HB3	2:Q:415:ASN:ND2	2.17	0.60
2:R:161:GLN:NE2	2:S:178:SER:OG	2.35	0.60
2:R:206:ARG:HH22	2:R:209:GLU:HG3	1.67	0.60
2:R:443:MET:HE2	2:R:489:ASN:HB3	1.82	0.60
2:R:823:ILE:HG23	2:R:827:LYS:NZ	2.17	0.60
1:A:214:ILE:CD1	1:A:291:LEU:HD22	2.32	0.59
1:C:225:VAL:HG23	1:C:225:VAL:O	2.01	0.59
1:C:638:GLU:O	1:C:641:ARG:HD2	2.02	0.59
1:C:762:TYR:O	1:C:766:VAL:HG23	2.02	0.59
1:I:437:LEU:HD12	1:I:440:LYS:HE3	1.84	0.59
1:J:1:MET:SD	1:J:56:LEU:HD22	2.42	0.59
1:J:334:TYR:CE2	1:J:373:VAL:HG12	2.37	0.59
1:L:165:TRP:O	1:L:169:LEU:HD12	2.01	0.59
2:M:150:LYS:HG2	2:M:154:GLN:OE1	2.02	0.59
2:M:156:HIS:HB3	2:M:203:LEU:HD21	1.84	0.59
2:M:646:PHE:HZ	2:M:713:VAL:HG11	1.67	0.59
2:N:496:LYS:C	2:N:500:MET:HE1	2.22	0.59
2:N:743:PHE:HA	2:N:746:ASN:ND2	2.16	0.59
2:O:131:LYS:HG3	2:P:192:GLY:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:270:SER:O	2:O:274:LEU:HD23	2.03	0.59
2:O:511:PHE:HA	2:O:515:VAL:CG2	2.32	0.59
2:O:514:PHE:CZ	2:O:558:VAL:HG23	2.38	0.59
2:P:313:MET:CA	2:P:316:LEU:HG	2.30	0.59
2:P:802:ILE:HG23	2:P:807:ARG:HH21	1.66	0.59
2:Q:253:ASP:O	2:Q:256:LEU:HG	2.01	0.59
2:Q:512:ASN:HA	2:Q:516:THR:HG23	1.83	0.59
2:Q:745:LEU:HA	2:Q:748:VAL:HG22	1.84	0.59
2:R:69:ARG:NH2	2:R:242:ASN:OD1	2.34	0.59
2:R:376:VAL:HA	2:R:379:LEU:CD2	2.32	0.59
2:S:270:SER:O	2:S:273:LEU:HB3	2.02	0.59
2:S:355:GLY:O	2:S:414:PRO:HA	2.02	0.59
2:S:854:PHE:O	2:S:857:PRO:HD3	2.02	0.59
2:S:870:LYS:CE	2:S:871:GLU:HG3	2.32	0.59
1:A:374:LEU:HB3	1:A:400:VAL:HG11	1.84	0.59
1:G:756:ASP:N	1:G:759:SER:OG	2.34	0.59
1:K:66:LYS:HA	1:K:66:LYS:HE3	1.83	0.59
1:L:657:LYS:O	1:L:661:THR:OG1	2.20	0.59
2:M:497:PHE:CE1	2:M:734:ILE:HG12	2.37	0.59
2:M:580:SER:HB3	2:M:590:LYS:CG	2.31	0.59
2:M:757:TYR:CD2	2:M:931:THR:HG22	2.36	0.59
2:N:567:ILE:HD12	2:N:753:LYS:CE	2.28	0.59
2:N:571:LEU:HG	2:N:746:ASN:OD1	2.01	0.59
2:N:790:GLU:OE1	2:N:842:PHE:HB2	2.01	0.59
2:O:131:LYS:CE	2:P:183:LEU:HD22	2.31	0.59
2:O:571:LEU:HD11	2:O:742:TYR:O	2.02	0.59
2:O:842:PHE:O	2:O:846:ILE:HG12	2.03	0.59
2:P:219:THR:HA	2:P:249:VAL:CG2	2.32	0.59
2:P:436:TYR:OH	2:Q:254:LEU:HB2	2.02	0.59
2:P:722:GLU:O	2:P:725:ILE:HG12	2.02	0.59
2:Q:131:LYS:HD2	2:R:191:ILE:C	2.22	0.59
2:Q:425:MET:HG2	2:Q:477:ASN:CB	2.32	0.59
2:Q:443:MET:HE1	2:Q:496:LYS:HB3	1.84	0.59
2:Q:799:ARG:NH2	2:Q:831:ASP:OD2	2.36	0.59
2:Q:872:THR:O	2:Q:876:LYS:HD3	2.01	0.59
2:R:108:PRO:HB2	2:R:128:ARG:NH2	2.17	0.59
2:R:524:ASP:CB	2:R:527:LYS:HG2	2.32	0.59
2:S:446:LEU:HD22	2:S:489:ASN:OD1	2.02	0.59
2:S:629:ILE:HD11	2:S:850:ILE:CG2	2.31	0.59
2:S:636:ARG:HG3	2:S:638:GLU:H	1.66	0.59
1:B:431:GLU:O	1:B:666:ARG:NH1	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:22:GLU:HB3	1:D:25:LEU:HD21	1.84	0.59
1:G:203:ILE:HG23	1:G:207:ARG:NH1	2.17	0.59
1:J:88:PRO:O	1:J:88:PRO:HD2	2.02	0.59
1:J:704:GLU:OE1	1:J:704:GLU:N	2.35	0.59
1:K:333:SER:O	1:K:336:SER:OG	2.15	0.59
1:K:565:ARG:O	1:K:568:ARG:NH2	2.34	0.59
2:M:162:ARG:NH1	2:M:162:ARG:HB3	2.17	0.59
2:M:169:ASP:O	2:S:117:ARG:NH2	2.35	0.59
2:M:267:GLU:N	2:M:267:GLU:OE1	2.33	0.59
2:M:833:LYS:HE3	2:M:838:THR:N	2.17	0.59
2:N:122:LEU:HD11	2:N:240:PHE:CB	2.33	0.59
2:N:476:ARG:HB3	2:N:476:ARG:CZ	2.32	0.59
2:O:130:ASN:HD22	2:P:181:LEU:HD22	1.67	0.59
2:O:276:GLN:HG3	2:O:277:GLU:CD	2.22	0.59
2:P:129:LEU:O	2:P:133:VAL:HG23	2.01	0.59
2:P:207:ALA:HA	2:P:210:ILE:CD1	2.30	0.59
2:Q:423:GLY:CA	2:R:307:ARG:HH12	2.14	0.59
2:Q:736:LYS:HG3	2:Q:793:TYR:CE1	2.37	0.59
2:Q:761:GLU:O	2:Q:762:HIS:HB2	2.02	0.59
2:R:123:VAL:HG13	2:S:177:PHE:CD1	2.38	0.59
2:R:319:GLU:O	2:R:345:ARG:NH2	2.34	0.59
2:R:707:SER:HA	2:R:710:ILE:CD1	2.33	0.59
2:S:230:GLY:O	2:S:234:LEU:HG	2.02	0.59
2:S:363:ASP:HB3	2:S:367:TYR:CE2	2.37	0.59
2:S:464:PHE:HD2	2:S:508:VAL:HG11	1.67	0.59
2:S:565:GLU:OE1	2:S:567:ILE:HD11	2.02	0.59
1:B:250:ARG:NH1	1:B:252:TYR:OH	2.35	0.59
1:C:696:MET:HE2	1:C:703:ILE:HD11	1.83	0.59
1:E:215:ARG:NH2	1:E:264:TYR:OH	2.36	0.59
1:G:161:ALA:HB1	1:G:306:LEU:HD23	1.84	0.59
1:I:526:ASP:O	1:I:701:ILE:HG23	2.03	0.59
1:L:401:LEU:HD11	1:L:459:LEU:HD23	1.83	0.59
2:M:158:ALA:CB	2:M:162:ARG:HH21	2.11	0.59
2:M:226:GLN:NE2	2:M:228:ASP:HB2	2.10	0.59
2:M:509:SER:CB	2:M:738:TRP:HE1	2.15	0.59
2:M:574:VAL:HG13	2:M:922:ILE:HG23	1.83	0.59
2:M:732:LEU:O	2:M:736:LYS:HD3	2.02	0.59
2:N:293:LEU:CA	2:N:296:GLN:HE21	2.15	0.59
2:N:565:GLU:O	2:N:567:ILE:HG13	2.02	0.59
2:O:42:VAL:O	2:O:46:ARG:HG3	2.02	0.59
2:O:70:ASN:HA	2:O:306:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:83:THR:O	2:O:86:ILE:HG12	2.01	0.59
2:O:296:GLN:HA	2:O:299:LEU:CD2	2.31	0.59
2:O:501:LEU:HD11	2:O:734:ILE:HA	1.84	0.59
2:O:574:VAL:CG1	2:O:922:ILE:HG12	2.32	0.59
2:O:833:LYS:HE3	2:O:838:THR:CG2	2.18	0.59
2:P:116:PRO:HG3	2:Q:166:LEU:HD13	1.83	0.59
2:P:319:GLU:O	2:P:320:LYS:HD2	2.01	0.59
2:P:763:GLY:HA3	2:P:859:GLY:O	2.02	0.59
2:Q:86:ILE:O	2:Q:90:VAL:HG23	2.02	0.59
2:Q:314:LEU:HD22	2:Q:373:LYS:NZ	2.17	0.59
2:Q:466:LEU:HD13	2:Q:482:LEU:HB2	1.82	0.59
2:Q:658:PRO:HB2	2:Q:660:TRP:HD1	1.68	0.59
2:Q:858:ILE:CD1	2:Q:915:THR:HG22	2.32	0.59
2:Q:874:PHE:O	2:Q:878:ILE:HG23	2.01	0.59
2:R:121:ILE:O	2:R:125:VAL:HG23	2.01	0.59
2:R:358:LEU:HG	2:R:364:ALA:HB2	1.83	0.59
2:R:363:ASP:HA	2:R:366:MET:HG3	1.83	0.59
2:R:415:ASN:OD1	2:R:416:LEU:N	2.36	0.59
2:R:536:VAL:HG12	2:R:541:VAL:HG11	1.83	0.59
2:R:831:ASP:HB3	2:R:833:LYS:HZ2	1.67	0.59
2:S:159:GLN:HA	2:S:162:ARG:CD	2.31	0.59
2:S:180:ALA:HA	2:S:194:GLN:CG	2.32	0.59
1:A:220:ARG:NH1	1:A:256:THR:HG21	2.17	0.59
1:A:366:MET:HE2	1:A:448:ILE:HG21	1.84	0.59
1:B:402:ASP:OD1	1:B:458:ARG:NH1	2.30	0.59
1:D:95:PHE:O	1:D:99:GLN:NE2	2.36	0.59
1:D:728:MET:CE	1:D:730:LEU:HD21	2.31	0.59
1:F:55:TYR:CE2	1:G:672:TYR:HB3	2.37	0.59
1:G:276:LEU:HD21	1:G:292:LEU:HD12	1.85	0.59
1:H:293:TRP:O	1:H:297:LEU:HD23	2.02	0.59
1:K:564:TRP:CE2	1:K:600:ILE:HD12	2.37	0.59
2:M:443:MET:CE	2:M:496:LYS:HB3	2.31	0.59
2:M:748:VAL:HA	2:M:811:VAL:CG1	2.32	0.59
2:N:74:VAL:HG22	2:N:308:ILE:HG22	1.83	0.59
2:N:383:LEU:HD11	2:N:387:TYR:HE2	1.67	0.59
2:N:726:GLY:O	2:N:728:ARG:NE	2.36	0.59
2:O:773:LYS:HG2	2:O:859:GLY:O	2.02	0.59
2:P:304:VAL:HA	2:P:307:ARG:CG	2.33	0.59
2:P:564:ASP:O	2:P:565:GLU:HB2	2.02	0.59
2:P:755:ARG:HB2	2:P:769:SER:HB2	1.84	0.59
2:P:872:THR:O	2:P:876:LYS:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:737:VAL:HG12	2:Q:789:GLU:CB	2.33	0.59
2:Q:744:ASN:CG	2:Q:809:ASN:HB3	2.23	0.59
2:Q:774:ILE:HG22	2:Q:775:MET:HE2	1.84	0.59
2:R:71:VAL:HG13	2:R:248:VAL:CG1	2.32	0.59
2:R:121:ILE:CG1	2:R:233:VAL:HG22	2.23	0.59
2:R:388:THR:O	2:R:392:HIS:ND1	2.18	0.59
2:R:443:MET:CE	2:R:489:ASN:HB3	2.32	0.59
2:R:823:ILE:HA	2:R:826:GLU:OE2	2.02	0.59
2:S:105:LYS:HD3	2:S:213:CYS:SG	2.41	0.59
2:S:147:ARG:HH11	2:S:148:LYS:H	1.49	0.59
1:A:58:GLN:NE2	1:L:672:TYR:O	2.35	0.59
1:B:322:THR:O	1:B:326:LEU:HG	2.01	0.59
1:D:142:TYR:OH	1:D:788:GLU:OE2	2.20	0.59
1:I:522:LEU:O	1:I:699:ARG:NH2	2.35	0.59
1:L:213:ASN:ND2	1:L:240:LEU:O	2.36	0.59
2:M:423:GLY:HA3	2:N:307:ARG:NH2	2.18	0.59
2:M:657:VAL:HG11	2:M:661:SER:HB3	1.84	0.59
2:N:451:PHE:O	2:N:454:VAL:HG12	2.02	0.59
2:O:366:MET:CE	2:O:467:ARG:HE	2.16	0.59
2:P:764:ARG:CZ	2:P:768:GLN:HE22	2.16	0.59
2:Q:333:GLU:CD	2:Q:334:PRO:HD2	2.23	0.59
2:Q:443:MET:CE	2:Q:496:LYS:HE3	2.32	0.59
2:Q:894:TYR:HA	2:Q:897:LYS:HE3	1.84	0.59
2:R:116:PRO:HB2	2:R:119:GLU:OE2	2.03	0.59
2:R:448:LYS:HD2	2:R:449:ASP:N	2.17	0.59
2:R:733:LEU:CD1	2:R:789:GLU:HB3	2.32	0.59
2:S:154:GLN:HA	2:S:157:LEU:HD12	1.83	0.59
2:S:206:ARG:HA	2:S:209:GLU:CD	2.23	0.59
2:S:505:CYS:O	2:S:508:VAL:HG12	2.02	0.59
2:S:578:ARG:NH2	2:S:590:LYS:HD2	2.17	0.59
2:S:642:ILE:HG21	2:S:714:GLU:HG2	1.85	0.59
1:B:270:PHE:O	1:B:274:THR:HG23	2.03	0.59
1:C:167:ASP:O	1:C:171:HIS:ND1	2.35	0.59
1:D:587:LEU:O	1:D:591:VAL:HG22	2.02	0.59
1:D:663:ASP:OD1	1:D:664:ASN:N	2.34	0.59
1:E:129:ARG:NH2	1:E:267:GLU:OE2	2.35	0.59
1:G:375:ARG:NH2	1:G:394:PRO:O	2.36	0.59
1:H:12:LEU:HD21	1:H:298:ILE:HG12	1.84	0.59
1:K:784:ALA:O	1:K:787:ASN:N	2.35	0.59
2:N:108:PRO:HB2	2:N:128:ARG:HH11	1.67	0.59
2:N:237:ILE:HA	2:N:241:PHE:CB	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:333:GLU:HB2	2:N:336:MET:HE3	1.85	0.59
2:N:728:ARG:HH21	2:N:796:VAL:HA	1.67	0.59
2:N:784:HIS:O	2:N:788:VAL:HG23	2.01	0.59
2:N:894:TYR:HA	2:N:897:LYS:NZ	2.18	0.59
2:O:524:ASP:OD1	2:O:525:ARG:N	2.36	0.59
2:O:713:VAL:HG13	2:O:716:TRP:HE3	1.66	0.59
2:P:195:ASP:HB2	2:P:198:GLU:HG3	1.84	0.59
2:P:337:GLN:HG2	2:P:337:GLN:O	2.03	0.59
2:P:376:VAL:O	2:P:379:LEU:HG	2.02	0.59
2:P:437:GLU:CD	2:P:440:ARG:HE	2.05	0.59
2:Q:69:ARG:HG2	2:Q:300:LYS:NZ	2.17	0.59
2:Q:495:SER:HB2	2:Q:633:SER:OG	2.02	0.59
2:Q:887:LEU:HD11	2:Q:891:GLU:HB3	1.84	0.59
2:R:231:TRP:O	2:R:235:GLU:OE1	2.21	0.59
2:R:288:TYR:HA	2:R:291:GLU:OE2	2.02	0.59
2:S:728:ARG:H	2:S:794:HIS:CE1	2.21	0.59
2:S:744:ASN:HA	2:S:747:ASN:OD1	2.02	0.59
1:D:111:ILE:HG22	1:D:115:GLN:OE1	2.02	0.59
1:D:702:ALA:HB2	1:D:793:TYR:CD2	2.38	0.59
1:F:542:LYS:HB2	1:F:677:LEU:HD21	1.85	0.59
1:H:558:LEU:HD21	1:H:610:ARG:NH1	2.18	0.59
2:M:108:PRO:HD2	2:M:128:ARG:CD	2.32	0.59
2:M:137:LEU:HD21	2:M:150:LYS:HB2	1.85	0.59
2:M:482:LEU:HD23	2:M:485:GLN:NE2	2.18	0.59
2:M:732:LEU:HG	2:M:736:LYS:NZ	2.18	0.59
2:N:856:PHE:CA	2:N:861:ILE:HD11	2.33	0.59
2:O:864:SER:HB3	2:O:867:ALA:HB3	1.83	0.59
2:P:355:GLY:HA2	2:P:413:VAL:HG12	1.84	0.59
2:P:415:ASN:HA	2:P:488:GLU:HG3	1.85	0.59
2:P:492:GLY:N	2:P:727:ILE:O	2.32	0.59
2:P:608:LEU:O	2:P:624:ASN:ND2	2.36	0.59
2:Q:200:PHE:HA	2:Q:203:LEU:HD12	1.85	0.59
2:Q:721:ASN:HA	2:Q:724:GLU:OE2	2.03	0.59
2:S:120:PRO:CG	2:S:123:VAL:HG23	2.32	0.59
2:S:160:LEU:HD12	2:S:196:LEU:HD22	1.85	0.59
1:D:418:LEU:HB2	1:D:463:ILE:HD13	1.84	0.59
1:E:172:PRO:HB3	1:E:208:LEU:HD21	1.84	0.59
1:L:702:ALA:HB2	1:L:793:TYR:CD2	2.38	0.59
2:M:447:CYS:SG	2:M:499:GLN:NE2	2.67	0.59
2:M:558:VAL:HG11	2:M:573:MET:CE	2.32	0.59
2:N:81:GLY:HA3	2:N:377:ARG:CZ	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:543:ARG:HG2	2:O:469:GLN:NE2	2.18	0.59
2:N:552:ASN:OD1	2:N:553:ARG:N	2.36	0.59
2:N:816:GLU:HB3	2:N:820:LYS:HZ3	1.68	0.59
2:N:826:GLU:HA	2:N:829:LYS:HE3	1.85	0.59
2:O:159:GLN:HA	2:O:162:ARG:HE	1.68	0.59
2:O:629:ILE:HD11	2:O:850:ILE:HB	1.85	0.59
2:O:762:HIS:CB	2:O:764:ARG:HD3	2.27	0.59
2:O:769:SER:HA	2:O:773:LYS:CD	2.32	0.59
2:P:121:ILE:HA	2:P:124:THR:HG22	1.85	0.59
2:P:313:MET:SD	2:P:372:LEU:HD23	2.43	0.59
2:P:577:ASN:OD1	2:P:923:VAL:HA	2.02	0.59
2:P:817:PHE:CZ	2:P:821:ILE:HD11	2.37	0.59
2:Q:166:LEU:HD11	2:Q:194:GLN:CG	2.31	0.59
2:Q:374:GLN:N	2:Q:374:GLN:OE1	2.35	0.59
2:Q:381:GLN:NE2	2:R:305:GLN:OE1	2.31	0.59
2:Q:436:TYR:OH	2:R:254:LEU:HG	2.03	0.59
2:Q:515:VAL:HG21	2:Q:535:TYR:CE1	2.38	0.59
2:Q:858:ILE:HD12	2:Q:915:THR:CG2	2.31	0.59
2:R:163:GLY:O	2:R:166:LEU:HG	2.03	0.59
2:R:452:THR:O	2:R:456:GLN:HG3	2.03	0.59
2:R:718:LYS:HA	2:R:718:LYS:HE2	1.84	0.59
2:R:756:LEU:HD22	2:R:922:ILE:HD12	1.85	0.59
2:S:357:ASN:CG	2:S:728:ARG:HB2	2.23	0.59
1:A:534:ILE:O	1:A:726:ARG:NH2	2.36	0.59
1:C:20:LEU:HD13	1:C:235:GLN:C	2.24	0.59
1:F:537:THR:HG22	1:F:726:ARG:HH11	1.67	0.59
1:J:342:HIS:NE2	1:J:345:GLY:O	2.36	0.59
1:L:609:MET:CE	1:L:643:LEU:HD22	2.33	0.59
2:M:123:VAL:HG22	2:M:164:LEU:HD21	1.84	0.59
2:M:235:GLU:O	2:M:238:ARG:HG2	2.03	0.59
2:M:385:ASP:OD1	2:N:305:GLN:HA	2.02	0.59
2:M:509:SER:HG	2:M:738:TRP:HE1	1.51	0.59
2:M:560:ASN:HD21	2:M:661:SER:CA	2.15	0.59
2:M:885:LYS:HE3	2:M:888:SER:HA	1.85	0.59
2:N:261:ILE:HD11	2:N:294:GLU:OE2	2.02	0.59
2:N:314:LEU:HD13	2:N:372:LEU:HD23	1.83	0.59
2:N:716:TRP:HE3	2:N:717:LEU:HD12	1.68	0.59
2:O:133:VAL:CG1	2:O:210:ILE:HD13	2.33	0.59
2:O:578:ARG:NH2	2:O:590:LYS:HD2	2.16	0.59
2:O:643:THR:HG23	2:O:710:ILE:HD11	1.83	0.59
2:P:426:LEU:O	2:P:429:ILE:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:438:GLN:HA	2:P:441:PHE:CE1	2.38	0.59
2:P:727:ILE:HD11	2:P:841:LEU:HD11	1.85	0.59
2:Q:69:ARG:NH1	2:Q:242:ASN:HB2	2.17	0.59
2:Q:286:ARG:HA	2:Q:286:ARG:NE	2.17	0.59
2:Q:472:SER:O	2:Q:476:ARG:HD2	2.03	0.59
2:Q:512:ASN:HA	2:Q:516:THR:HG21	1.83	0.59
2:Q:783:LEU:HD11	2:Q:846:ILE:CG2	2.33	0.59
2:R:168:THR:HG21	2:S:172:TYR:O	2.03	0.59
2:R:569:VAL:HA	2:R:574:VAL:HA	1.83	0.59
2:R:621:SER:OG	2:R:624:ASN:HB2	2.03	0.59
2:S:234:LEU:HB3	2:S:238:ARG:NH2	2.16	0.59
2:S:313:MET:O	2:S:317:VAL:HG12	2.03	0.59
2:S:352:VAL:CG2	2:S:356:LEU:HD12	2.32	0.59
2:S:608:LEU:HD11	2:S:618:ASP:OD1	2.02	0.59
1:B:45:PRO:O	1:B:47:HIS:ND1	2.36	0.58
1:C:272:TRP:HZ3	1:C:295:TYR:HH	1.49	0.58
1:H:380:TYR:CD2	1:H:381:LEU:HD22	2.38	0.58
1:L:763:HIS:O	1:L:767:VAL:HG23	2.03	0.58
2:M:232:ASP:O	2:M:235:GLU:HG3	2.03	0.58
2:M:297:TYR:HA	2:M:300:LYS:CE	2.26	0.58
2:M:416:LEU:O	2:M:419:ASN:HB2	2.03	0.58
2:M:720:VAL:O	2:M:724:GLU:HG2	2.03	0.58
2:M:833:LYS:HZ1	2:M:837:ASN:HB3	1.67	0.58
2:N:122:LEU:HD21	2:N:236:SER:HA	1.85	0.58
2:O:41:LEU:HD12	2:O:308:ILE:CG1	2.29	0.58
2:O:547:ALA:HB3	2:O:627:GLY:O	2.02	0.58
2:O:854:PHE:CD1	2:O:914:ILE:HD11	2.38	0.58
2:P:354:GLU:CB	2:P:413:VAL:HG11	2.29	0.58
2:P:537:ALA:C	2:P:543:ARG:HH22	2.05	0.58
2:P:569:VAL:HG22	2:P:574:VAL:CG2	2.33	0.58
2:P:784:HIS:HA	2:P:817:PHE:CE1	2.38	0.58
2:P:787:LEU:HD11	2:P:824:ILE:CD1	2.33	0.58
2:Q:151:GLU:O	2:Q:154:GLN:NE2	2.36	0.58
2:Q:261:ILE:O	2:Q:265:GLN:HG3	2.03	0.58
2:R:153:TRP:NE1	2:R:157:LEU:HD21	2.18	0.58
2:R:208:CYS:HB2	2:R:245:LYS:HZ2	1.66	0.58
2:R:815:ASP:O	2:R:818:GLU:HG3	2.03	0.58
2:R:826:GLU:CG	2:R:827:LYS:HD2	2.32	0.58
2:S:525:ARG:O	2:S:529:GLU:OE1	2.20	0.58
2:S:639:ARG:O	2:S:639:ARG:HD3	2.03	0.58
2:S:749:ALA:O	2:S:753:LYS:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:VAL:HG22	1:A:652:PRO:HA	1.85	0.58
1:C:651:ARG:O	1:C:655:LEU:HD23	2.02	0.58
1:F:342:HIS:NE2	1:F:345:GLY:O	2.34	0.58
1:F:672:TYR:HB3	1:G:55:TYR:CZ	2.38	0.58
1:F:730:LEU:HD12	1:F:730:LEU:N	2.18	0.58
1:J:380:TYR:HD2	1:J:381:LEU:HD22	1.67	0.58
1:K:74:ARG:O	1:K:78:GLU:OE1	2.21	0.58
1:L:475:ALA:HB1	1:L:479:LEU:HD21	1.85	0.58
2:M:35:LYS:HD3	2:M:35:LYS:C	2.23	0.58
2:M:35:LYS:HE2	2:M:38:ARG:NH2	2.18	0.58
2:M:261:ILE:CB	2:M:294:GLU:HG2	2.32	0.58
2:M:466:LEU:HD12	2:M:479:SER:CA	2.28	0.58
2:M:648:LYS:HE2	2:M:648:LYS:HA	1.85	0.58
2:O:708:ASP:O	2:O:712:LYS:HG2	2.03	0.58
2:P:602:ALA:HB2	2:P:706:PHE:CZ	2.38	0.58
2:P:727:ILE:HG12	2:P:729:PRO:HG3	1.85	0.58
2:Q:748:VAL:CG1	2:Q:811:VAL:HG13	2.32	0.58
2:R:412:SER:HB3	2:R:415:ASN:ND2	2.19	0.58
2:R:575:GLN:CG	2:R:923:VAL:HG11	2.33	0.58
2:R:605:ALA:HB3	2:R:650:ILE:CG2	2.33	0.58
2:R:716:TRP:CZ2	2:R:720:VAL:HG11	2.39	0.58
2:S:105:LYS:HE2	2:S:211:LEU:HB3	1.85	0.58
2:S:173:LYS:HD3	2:S:174:PRO:N	2.18	0.58
2:S:206:ARG:HA	2:S:209:GLU:OE1	2.03	0.58
2:S:231:TRP:O	2:S:235:GLU:OE1	2.21	0.58
2:S:356:LEU:CB	2:S:358:LEU:HG	2.31	0.58
2:S:494:LEU:HD13	2:S:720:VAL:CG1	2.33	0.58
2:S:579:LYS:O	2:S:579:LYS:HD2	2.03	0.58
1:C:287:GLY:O	1:C:290:ARG:CD	2.48	0.58
1:D:246:LEU:HD21	1:D:249:GLY:H	1.68	0.58
1:L:140:GLU:O	1:L:144:THR:HG23	2.03	0.58
1:L:150:GLU:HB3	1:L:353:LEU:HD12	1.84	0.58
2:M:114:LYS:HG3	2:N:239:LYS:HD2	1.84	0.58
2:M:428:ASN:ND2	2:M:474:ALA:HA	2.18	0.58
2:M:466:LEU:CD1	2:M:482:LEU:HB2	2.33	0.58
2:M:518:LEU:HB3	2:M:531:LEU:CD2	2.33	0.58
2:M:833:LYS:HZ2	2:M:837:ASN:HB3	1.66	0.58
2:N:198:GLU:OE2	2:N:199:ILE:HG13	2.03	0.58
2:N:217:LEU:HD12	2:N:247:VAL:C	2.23	0.58
2:N:271:LYS:HA	2:N:274:LEU:HG	1.85	0.58
2:N:768:GLN:NE2	2:N:931:THR:HG21	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:108:PRO:HB2	2:O:128:ARG:HH11	1.67	0.58
2:O:434:LEU:CD2	2:O:449:ASP:HA	2.32	0.58
2:O:467:ARG:NH1	2:O:469:GLN:HA	2.15	0.58
2:O:643:THR:OG1	2:O:710:ILE:HD13	2.03	0.58
2:O:772:ALA:N	2:O:917:LEU:HG	2.18	0.58
2:P:277:GLU:O	2:P:286:ARG:NH2	2.36	0.58
2:Q:200:PHE:O	2:Q:204:VAL:HG23	2.03	0.58
2:Q:349:GLY:HA2	2:Q:368:VAL:HG21	1.85	0.58
2:Q:366:MET:O	2:Q:369:ASN:N	2.36	0.58
2:Q:452:THR:CG2	2:Q:456:GLN:HE22	2.15	0.58
2:R:153:TRP:CE2	2:R:157:LEU:HD21	2.39	0.58
2:R:386:PHE:CE1	2:R:417:LEU:HD13	2.38	0.58
2:R:503:VAL:HG11	2:R:544:ILE:HG21	1.86	0.58
2:R:547:ALA:HB3	2:R:631:ASP:OD1	2.04	0.58
2:R:726:GLY:O	2:R:728:ARG:HD3	2.02	0.58
2:S:759:ASN:OD1	2:S:931:THR:HG23	2.03	0.58
2:S:810:PRO:HA	2:S:816:GLU:OE2	2.03	0.58
1:B:1:MET:CG	1:B:56:LEU:HD11	2.32	0.58
1:D:2:GLU:N	1:D:2:GLU:OE1	2.34	0.58
1:D:222:ALA:O	1:D:279:LYS:NZ	2.35	0.58
1:D:256:THR:O	1:D:263:LYS:NZ	2.36	0.58
1:E:155:LEU:HG	1:E:748:ASP:OD1	2.03	0.58
1:E:508:SER:O	1:E:511:ARG:HD3	2.04	0.58
1:E:728:MET:O	1:E:782:LYS:NZ	2.36	0.58
1:F:3:ARG:NH1	1:F:40:GLN:OE1	2.30	0.58
1:I:389:TRP:O	1:I:391:HIS:N	2.37	0.58
1:I:600:ILE:H	1:I:600:ILE:HD12	1.68	0.58
1:L:34:PHE:O	1:L:37:GLN:NE2	2.36	0.58
1:L:236:ASN:N	1:L:239:GLN:OE1	2.32	0.58
1:L:286:GLU:HA	1:L:289:GLU:OE1	2.04	0.58
2:M:70:ASN:O	2:M:247:VAL:HG13	2.03	0.58
2:M:415:ASN:O	2:M:418:ARG:NH1	2.35	0.58
2:M:858:ILE:HD12	2:M:915:THR:CB	2.32	0.58
2:N:69:ARG:NH2	2:N:242:ASN:HA	2.18	0.58
2:N:93:LEU:HB3	2:N:106:CYS:SG	2.43	0.58
2:N:103:ASN:HB3	2:N:214:LYS:CD	2.34	0.58
2:N:355:GLY:CA	2:N:413:VAL:HG12	2.33	0.58
2:N:512:ASN:HA	2:N:516:THR:HG21	1.85	0.58
2:N:560:ASN:HD21	2:N:658:PRO:HD2	1.68	0.58
2:N:826:GLU:HA	2:N:829:LYS:HG2	1.83	0.58
2:O:219:THR:HG23	2:O:249:VAL:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:368:VAL:O	2:O:372:LEU:HG	2.03	0.58
2:O:543:ARG:NH2	2:P:471:GLU:H	2.01	0.58
2:P:423:GLY:HA2	2:P:426:LEU:HB2	1.85	0.58
2:P:540:SER:HA	2:P:543:ARG:NH1	2.18	0.58
2:P:657:VAL:HG11	2:P:661:SER:CB	2.33	0.58
2:P:849:PRO:O	2:P:853:PRO:HD3	2.04	0.58
2:Q:228:ASP:OD1	2:R:268:ASN:HB3	2.03	0.58
2:Q:501:LEU:HD12	2:Q:502:LEU:N	2.18	0.58
2:Q:529:GLU:OE1	2:Q:532:ILE:HD11	2.04	0.58
2:R:210:ILE:HG13	2:R:211:LEU:CD2	2.33	0.58
2:R:877:LEU:O	2:R:881:ILE:HG13	2.04	0.58
2:S:415:ASN:HB3	2:S:488:GLU:HG2	1.85	0.58
2:S:435:ASN:ND2	2:S:440:ARG:O	2.36	0.58
2:S:561:SER:HB3	2:S:562:PRO:CD	2.33	0.58
1:B:364:ASN:O	1:B:367:GLN:NE2	2.37	0.58
1:B:564:TRP:CE2	1:B:600:ILE:HD12	2.38	0.58
1:E:225:VAL:O	1:E:225:VAL:HG23	2.03	0.58
1:I:617:GLU:OE1	1:I:641:ARG:NH1	2.37	0.58
1:J:599:SER:O	1:J:602:THR:OG1	2.15	0.58
1:K:220:ARG:NH1	1:K:254:PHE:O	2.35	0.58
2:M:443:MET:HE1	2:M:489:ASN:HB3	1.83	0.58
2:M:446:LEU:HD11	2:M:486:VAL:CG1	2.34	0.58
2:M:855:ILE:HD12	2:M:886:LEU:CD2	2.34	0.58
2:N:105:LYS:HG2	2:N:213:CYS:SG	2.44	0.58
2:N:135:ASP:HA	2:N:138:LYS:CG	2.33	0.58
2:N:460:PHE:HB3	2:N:512:ASN:OD1	2.03	0.58
2:N:620:CYS:O	2:N:775:MET:HE1	2.04	0.58
2:N:910:PHE:HB2	2:N:915:THR:HG21	1.86	0.58
2:O:273:LEU:HA	2:O:276:GLN:HE21	1.68	0.58
2:O:275:GLU:O	2:O:278:LYS:NZ	2.34	0.58
2:O:574:VAL:HG23	2:O:775:MET:CE	2.32	0.58
2:O:644:ASN:O	2:O:648:LYS:HG2	2.03	0.58
2:P:648:LYS:HE2	2:P:648:LYS:HA	1.85	0.58
2:Q:75:ASP:OD1	2:Q:309:GLN:HA	2.03	0.58
2:Q:337:GLN:OE1	2:Q:337:GLN:HA	2.02	0.58
2:R:388:THR:HG22	2:R:389:LYS:HE3	1.85	0.58
2:R:716:TRP:O	2:R:720:VAL:HG13	2.03	0.58
2:S:128:ARG:HB3	2:S:131:LYS:NZ	2.19	0.58
2:S:198:GLU:O	2:S:202:GLU:OE1	2.21	0.58
2:S:219:THR:HA	2:S:249:VAL:CG2	2.32	0.58
2:S:327:GLU:OE2	2:S:329:LYS:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292:LEU:CD2	1:A:296:LEU:HD11	2.34	0.58
1:A:387:MET:HE1	1:A:406:LEU:HD13	1.85	0.58
1:H:225:VAL:O	1:H:225:VAL:HG23	2.03	0.58
1:I:32:SER:HA	1:I:35:LEU:HD12	1.85	0.58
1:J:7:ASN:ND2	1:J:104:ARG:HB3	2.19	0.58
2:M:41:LEU:HD12	2:M:308:ILE:HB	1.86	0.58
2:M:72:PHE:HA	2:M:306:LYS:O	2.04	0.58
2:M:354:GLU:CG	2:M:413:VAL:HG11	2.33	0.58
2:M:355:GLY:O	2:M:414:PRO:HB3	2.03	0.58
2:M:755:ARG:HD2	2:M:767:SER:HA	1.84	0.58
2:N:102:VAL:N	2:N:214:LYS:HZ3	2.02	0.58
2:N:266:TYR:HA	2:N:269:TYR:HD2	1.65	0.58
2:N:706:PHE:O	2:N:710:ILE:HG23	2.04	0.58
2:N:852:HIS:HA	2:N:855:ILE:CG1	2.33	0.58
2:O:230:GLY:O	2:O:234:LEU:HD23	2.03	0.58
2:O:279:GLU:O	2:O:283:LEU:HD23	2.04	0.58
2:O:315:GLN:O	2:O:325:LYS:HE2	2.04	0.58
2:O:375:PRO:HD2	2:O:378:LEU:CD2	2.34	0.58
2:O:437:GLU:HG2	2:O:439:HIS:NE2	2.19	0.58
2:P:249:VAL:HG23	2:P:249:VAL:O	2.02	0.58
2:P:263:GLY:O	2:P:267:GLU:HG3	2.03	0.58
2:P:588:TYR:CZ	2:P:761:GLU:HB3	2.39	0.58
2:P:612:ALA:N	2:P:655:CYS:O	2.33	0.58
2:Q:495:SER:HB3	2:Q:634:ALA:HB3	1.85	0.58
2:R:223:ILE:HD12	2:R:227:PHE:C	2.24	0.58
2:R:744:ASN:OD1	2:R:809:ASN:HB3	2.04	0.58
2:R:828:LEU:HD22	2:R:835:TRP:CE2	2.39	0.58
2:S:132:MET:O	2:S:135:ASP:OD1	2.22	0.58
2:S:625:LEU:HD11	2:S:850:ILE:HG22	1.85	0.58
1:A:6:LEU:O	1:A:300:ASN:ND2	2.32	0.58
1:D:68:GLY:HA2	1:D:293:TRP:CZ2	2.38	0.58
1:D:214:ILE:HD12	1:D:291:LEU:HD22	1.86	0.58
1:E:184:ALA:O	1:E:189:LYS:NZ	2.24	0.58
1:E:535:GLY:HA2	1:E:727:TRP:CZ2	2.37	0.58
1:H:25:LEU:HD23	1:H:290:ARG:NH2	2.19	0.58
1:H:581:ALA:O	1:H:585:VAL:HG23	2.04	0.58
2:M:377:ARG:HA	2:M:380:MET:HG2	1.84	0.58
2:N:228:ASP:OD2	2:O:268:ASN:HA	2.04	0.58
2:N:266:TYR:HA	2:N:269:TYR:CE2	2.38	0.58
2:N:329:LYS:HZ2	2:N:343:ASP:H	1.50	0.58
2:N:421:LEU:CD1	2:N:481:TYR:HA	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:575:GLN:HE22	2:N:617:MET:HB3	1.68	0.58
2:O:510:ILE:HA	2:O:514:PHE:HD2	1.69	0.58
2:O:530:GLN:HE21	2:P:525:ARG:HH21	1.50	0.58
2:O:575:GLN:HG3	2:O:617:MET:CG	2.34	0.58
2:O:642:ILE:CD1	2:O:714:GLU:HG2	2.34	0.58
2:O:855:ILE:HG23	2:O:856:PHE:CD2	2.39	0.58
2:P:639:ARG:O	2:P:642:ILE:HB	2.04	0.58
2:P:786:VAL:HG11	2:P:845:LEU:CD1	2.30	0.58
2:Q:239:LYS:HE2	2:Q:239:LYS:HA	1.85	0.58
2:Q:246:LEU:O	2:Q:246:LEU:HD12	2.03	0.58
2:Q:261:ILE:O	2:Q:264:LYS:HG2	2.03	0.58
2:Q:462:THR:O	2:Q:465:TYR:HB2	2.04	0.58
2:Q:782:PHE:O	2:Q:786:VAL:HG23	2.03	0.58
2:R:38:ARG:HB3	2:R:85:PHE:CE1	2.39	0.58
2:R:173:LYS:HD3	2:R:175:GLU:N	2.15	0.58
2:R:195:ASP:HB3	2:R:198:GLU:HG2	1.86	0.58
2:R:198:GLU:O	2:R:202:GLU:OE1	2.21	0.58
2:R:222:ASP:HA	2:R:251:THR:O	2.04	0.58
2:R:462:THR:HB	2:R:465:TYR:CD2	2.38	0.58
2:S:741:PHE:CD1	2:S:782:PHE:HA	2.39	0.58
1:G:375:ARG:O	1:G:379:GLU:OE1	2.22	0.58
1:H:202:ARG:NH1	1:H:206:ASP:OD2	2.37	0.58
1:J:130:TRP:CE3	1:J:754:ALA:HB1	2.39	0.58
1:K:216:GLU:OE2	1:K:256:THR:HG22	2.04	0.58
1:L:265:SER:O	1:L:268:SER:OG	2.16	0.58
2:M:348:ILE:HD11	2:M:371:LEU:HD23	1.84	0.58
2:M:632:ILE:HD12	2:M:635:CYS:SG	2.44	0.58
2:N:280:SER:HA	2:N:283:LEU:CD2	2.33	0.58
2:N:567:ILE:HB	2:N:753:LYS:CE	2.26	0.58
2:N:570:PHE:HB2	2:N:573:MET:SD	2.43	0.58
2:O:719:ASN:O	2:O:723:ILE:HG12	2.03	0.58
2:P:149:GLN:CA	2:P:152:GLN:HE21	2.16	0.58
2:P:171:GLU:OE2	2:P:173:LYS:HB2	2.04	0.58
2:P:344:VAL:O	2:P:348:ILE:HG13	2.03	0.58
2:P:828:LEU:CA	2:P:833:LYS:HB2	2.34	0.58
2:Q:363:ASP:O	2:Q:366:MET:HG3	2.03	0.58
2:Q:752:HIS:NE2	2:Q:811:VAL:O	2.36	0.58
2:R:109:THR:O	2:R:128:ARG:NH2	2.36	0.58
2:R:110:ILE:O	2:R:221:ASP:N	2.31	0.58
2:R:223:ILE:CG1	2:R:227:PHE:HA	2.34	0.58
2:R:241:PHE:HB3	2:R:246:LEU:CD1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:573:MET:HB3	2:R:621:SER:HB3	1.86	0.58
2:R:817:PHE:O	2:R:821:ILE:HG13	2.03	0.58
2:S:307:ARG:NH1	2:S:309:GLN:HG3	2.19	0.58
2:S:377:ARG:NH2	2:S:380:MET:SD	2.74	0.58
2:S:460:PHE:HB3	2:S:512:ASN:HB2	1.84	0.58
2:S:914:ILE:HG23	2:S:917:LEU:HD23	1.86	0.58
1:C:165:TRP:NE1	1:C:169:LEU:HD11	2.19	0.58
1:D:718:ASN:ND2	1:D:720:SER:OG	2.35	0.58
1:F:200:THR:OG1	1:F:202:ARG:CZ	2.52	0.58
1:F:597:GLU:OE1	1:J:651:ARG:NH2	2.37	0.58
1:H:604:ASP:O	1:H:608:GLU:OE1	2.22	0.58
1:K:178:ASP:OD2	1:K:324:THR:OG1	2.19	0.58
2:M:86:ILE:CD1	2:M:251:THR:HG21	2.34	0.58
2:M:117:ARG:HG2	2:M:118:HIS:N	2.18	0.58
2:M:199:ILE:O	2:M:202:GLU:HG3	2.04	0.58
2:M:293:LEU:HA	2:M:296:GLN:NE2	2.18	0.58
2:M:611:VAL:CG2	2:M:617:MET:HB2	2.33	0.58
2:M:834:THR:O	2:M:838:THR:HG22	2.04	0.58
2:N:259:GLN:HA	2:N:262:ARG:CD	2.33	0.58
2:N:589:LYS:HG2	2:N:919:SER:O	2.03	0.58
2:N:869:ASN:O	2:N:872:THR:OG1	2.20	0.58
2:O:93:LEU:HD23	2:O:106:CYS:SG	2.43	0.58
2:O:197:SER:O	2:O:201:GLU:OE1	2.22	0.58
2:O:343:ASP:OD1	2:O:345:ARG:HG3	2.03	0.58
2:O:349:GLY:HA2	2:O:368:VAL:HG21	1.85	0.58
2:O:726:GLY:O	2:O:728:ARG:NE	2.36	0.58
2:P:160:LEU:HD22	2:P:203:LEU:CD1	2.33	0.58
2:P:296:GLN:O	2:P:299:LEU:HG	2.03	0.58
2:P:651:ALA:CB	2:Q:806:LEU:HD13	2.34	0.58
2:R:876:LYS:HD3	2:R:876:LYS:N	2.17	0.58
2:S:205:LYS:HG2	2:S:209:GLU:OE2	2.04	0.58
1:A:225:VAL:O	1:A:225:VAL:HG23	2.03	0.58
1:B:340:HIS:NE2	1:B:756:ASP:OD2	2.37	0.58
1:E:466:VAL:HG13	1:E:492:ILE:HG21	1.86	0.58
1:H:176:LEU:HD22	1:H:205:LYS:HE2	1.86	0.58
1:I:774:LEU:HD23	1:I:782:LYS:NZ	2.19	0.58
2:M:117:ARG:NH2	2:N:169:ASP:O	2.28	0.58
2:M:130:ASN:HA	2:M:153:TRP:HH2	1.68	0.58
2:M:170:LYS:HA	2:M:170:LYS:HE3	1.85	0.58
2:M:348:ILE:HG21	2:M:372:LEU:HD21	1.85	0.58
2:M:555:CYS:HB3	2:M:619:PHE:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:656:ILE:HD11	2:N:743:PHE:CZ	2.39	0.58
2:M:748:VAL:HA	2:M:811:VAL:HG13	1.84	0.58
2:N:280:SER:CA	2:N:283:LEU:HG	2.34	0.58
2:N:502:LEU:HB3	2:N:550:TRP:CZ3	2.38	0.58
2:N:589:LYS:HG3	2:N:590:LYS:O	2.04	0.58
2:N:603:ALA:HB2	2:N:850:ILE:HD13	1.84	0.58
2:O:575:GLN:HG3	2:O:617:MET:HG2	1.86	0.58
2:O:761:GLU:O	2:O:762:HIS:HB2	2.04	0.58
2:O:773:LYS:O	2:O:776:ARG:HG2	2.03	0.58
2:P:81:GLY:N	2:P:84:THR:HG1	2.01	0.58
2:Q:357:ASN:O	2:Q:730:SER:HB3	2.03	0.58
2:Q:358:LEU:O	2:Q:359:ARG:HB3	2.03	0.58
2:Q:565:GLU:OE1	2:Q:567:ILE:HD11	2.03	0.58
2:Q:713:VAL:HG22	2:Q:849:PRO:HG3	1.86	0.58
2:R:231:TRP:CH2	2:R:264:LYS:HB2	2.39	0.58
2:R:259:GLN:NE2	2:S:273:LEU:HD21	2.18	0.58
2:R:261:ILE:O	2:R:265:GLN:HG3	2.04	0.58
2:R:868:LEU:O	2:R:872:THR:HG23	2.04	0.58
2:S:307:ARG:NH1	2:S:309:GLN:OE1	2.37	0.58
1:A:431:GLU:OE2	1:A:435:HIS:N	2.34	0.57
1:G:244:THR:OG1	1:G:251:GLU:OE1	2.16	0.57
1:H:527:ARG:HG2	1:H:702:ALA:HB3	1.86	0.57
1:I:11:LEU:HD23	1:I:297:LEU:HD21	1.85	0.57
1:I:333:SER:O	1:I:336:SER:OG	2.19	0.57
1:J:726:ARG:NH2	1:J:735:ILE:HD13	2.19	0.57
2:M:117:ARG:NH2	2:N:169:ASP:HB3	2.19	0.57
2:M:235:GLU:HB2	2:M:239:LYS:HZ1	1.68	0.57
2:M:379:LEU:HA	2:M:382:VAL:HG12	1.86	0.57
2:M:599:LEU:CD1	2:M:709:ALA:HB1	2.33	0.57
2:M:817:PHE:O	2:M:821:ILE:HG12	2.04	0.57
2:N:113:THR:HG22	2:N:226:GLN:CB	2.34	0.57
2:N:151:GLU:O	2:N:154:GLN:HG3	2.03	0.57
2:N:421:LEU:CB	2:N:481:TYR:HD1	2.17	0.57
2:O:71:VAL:O	2:O:306:LYS:HE2	2.04	0.57
2:O:311:LYS:CE	2:O:315:GLN:HG3	2.28	0.57
2:O:744:ASN:HB2	2:O:809:ASN:HD22	1.69	0.57
2:P:265:GLN:NE2	2:P:293:LEU:HB2	2.19	0.57
2:P:765:MET:CE	2:P:767:SER:HB3	2.34	0.57
2:Q:333:GLU:H	2:Q:336:MET:HG3	1.69	0.57
2:Q:446:LEU:HD13	2:Q:485:GLN:HB3	1.85	0.57
2:Q:511:PHE:O	2:Q:516:THR:HG23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:636:ARG:HE	2:Q:638:GLU:HB3	1.69	0.57
2:R:139:GLY:O	2:R:140:TYR:HB2	2.04	0.57
2:R:319:GLU:HG2	2:R:320:LYS:H	1.69	0.57
2:R:333:GLU:CD	2:R:334:PRO:HD2	2.23	0.57
2:S:377:ARG:NE	2:S:380:MET:SD	2.75	0.57
2:S:547:ALA:N	2:S:631:ASP:OD1	2.36	0.57
1:H:148:LEU:CD1	1:H:350:VAL:HG22	2.30	0.57
1:H:431:GLU:O	1:H:666:ARG:NH1	2.35	0.57
1:K:333:SER:O	1:K:337:ARG:HG3	2.04	0.57
2:M:102:VAL:N	2:M:214:LYS:HE2	2.18	0.57
2:M:228:ASP:OD2	2:N:268:ASN:HA	2.04	0.57
2:M:890:GLU:OE2	2:M:891:GLU:HG3	2.04	0.57
2:N:121:ILE:HB	2:N:236:SER:OG	2.04	0.57
2:N:218:ILE:HG13	2:N:248:VAL:HG13	1.84	0.57
2:N:262:ARG:NH2	2:N:291:GLU:OE2	2.37	0.57
2:N:468:PRO:CB	2:N:480:ILE:HD11	2.34	0.57
2:N:770:ASN:ND2	2:N:772:ALA:HB3	2.19	0.57
2:N:885:LYS:CE	2:N:888:SER:HA	2.34	0.57
2:O:501:LEU:O	2:O:505:CYS:HB2	2.04	0.57
2:O:596:GLU:HG2	2:O:604:MET:CE	2.34	0.57
2:O:713:VAL:HG22	2:O:849:PRO:CG	2.34	0.57
2:O:748:VAL:CG1	2:O:811:VAL:HG22	2.34	0.57
2:P:425:MET:HE2	2:P:478:CYS:HA	1.85	0.57
2:P:441:PHE:O	2:P:445:SER:OG	2.22	0.57
2:P:515:VAL:HG21	2:P:535:TYR:HE1	1.69	0.57
2:Q:120:PRO:HG2	2:Q:123:VAL:CB	2.34	0.57
2:Q:134:SER:CA	2:Q:137:LEU:HG	2.34	0.57
2:Q:468:PRO:HG3	2:Q:480:ILE:CG2	2.34	0.57
2:Q:558:VAL:HG22	2:Q:570:PHE:HD2	1.69	0.57
2:Q:814:VAL:HG12	2:Q:814:VAL:O	2.04	0.57
2:R:71:VAL:CG2	2:R:248:VAL:HB	2.26	0.57
2:R:359:ARG:CG	2:R:795:SER:HA	2.33	0.57
2:R:566:LYS:HA	2:R:566:LYS:HE3	1.86	0.57
1:H:446:ALA:CB	1:H:483:LEU:HD11	2.35	0.57
1:L:132:LEU:HD12	1:L:133:TYR:H	1.68	0.57
1:L:665:VAL:HA	1:L:668:GLN:NE2	2.20	0.57
2:M:206:ARG:HE	2:M:210:ILE:CG1	2.17	0.57
2:N:223:ILE:HD12	2:N:227:PHE:O	2.04	0.57
2:N:431:ARG:HA	2:N:431:ARG:HE	1.69	0.57
2:O:38:ARG:HD3	2:O:92:SER:HB2	1.86	0.57
2:O:69:ARG:NH2	2:O:242:ASN:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:204:VAL:HG13	2:O:216:ILE:CD1	2.26	0.57
2:O:298:LEU:CA	2:O:301:LEU:HG	2.33	0.57
2:O:367:TYR:HA	2:O:370:GLU:OE2	2.04	0.57
2:O:815:ASP:HA	2:O:870:LYS:HE2	1.86	0.57
2:P:377:ARG:HA	2:P:380:MET:SD	2.44	0.57
2:P:549:HIS:O	2:P:553:ARG:HD3	2.04	0.57
2:P:562:PRO:HG2	2:P:570:PHE:CE2	2.40	0.57
2:P:810:PRO:HB3	2:P:816:GLU:OE1	2.04	0.57
2:Q:201:GLU:O	2:Q:205:LYS:HG2	2.04	0.57
2:Q:279:GLU:N	2:Q:279:GLU:OE1	2.37	0.57
2:Q:421:LEU:HD23	2:Q:425:MET:HE1	1.87	0.57
2:Q:575:GLN:O	2:Q:923:VAL:HG12	2.05	0.57
2:Q:783:LEU:HD21	2:Q:846:ILE:HG22	1.85	0.57
2:R:262:ARG:HA	2:R:265:GLN:CD	2.24	0.57
2:R:612:ALA:HB2	2:R:654:THR:HG22	1.87	0.57
2:R:716:TRP:CH2	2:R:720:VAL:HG11	2.39	0.57
2:S:588:TYR:HE2	2:S:758:ARG:O	1.87	0.57
2:S:784:HIS:HA	2:S:817:PHE:CE1	2.39	0.57
2:S:810:PRO:HB3	2:S:814:VAL:HA	1.86	0.57
1:C:415:GLU:O	1:C:796:HIS:NE2	2.37	0.57
1:D:148:LEU:O	1:D:149:HIS:ND1	2.37	0.57
1:E:585:VAL:HG12	1:E:589:HIS:HE1	1.69	0.57
1:E:585:VAL:CG1	1:E:589:HIS:HE1	2.18	0.57
1:F:55:TYR:HH	1:G:673:VAL:C	2.05	0.57
1:J:88:PRO:O	1:J:132:LEU:HD11	2.04	0.57
2:M:151:GLU:HG2	2:M:152:GLN:N	2.19	0.57
2:M:296:GLN:O	2:M:299:LEU:HG	2.05	0.57
2:M:377:ARG:O	2:M:380:MET:HG2	2.05	0.57
2:M:533:SER:OG	2:N:458:ARG:NH2	2.37	0.57
2:N:573:MET:HE2	2:N:620:CYS:O	2.03	0.57
2:O:381:GLN:NE2	2:P:304:VAL:HG22	2.18	0.57
2:O:506:GLY:HA2	2:O:738:TRP:CZ2	2.39	0.57
2:P:41:LEU:HD23	2:P:45:ILE:CD1	2.33	0.57
2:P:314:LEU:HB3	2:P:373:LYS:CE	2.35	0.57
2:P:495:SER:CB	2:P:634:ALA:HB2	2.35	0.57
2:P:515:VAL:HG21	2:P:535:TYR:CE1	2.39	0.57
2:P:649:VAL:HG13	2:P:650:ILE:HG13	1.86	0.57
2:Q:166:LEU:HB2	2:Q:196:LEU:HD11	1.84	0.57
2:Q:199:ILE:O	2:Q:203:LEU:HG	2.05	0.57
2:Q:596:GLU:C	2:Q:601:LYS:HB2	2.25	0.57
2:Q:792:LEU:HD21	2:Q:802:ILE:CG2	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:205:LYS:HA	2:R:245:LYS:HZ3	1.70	0.57
2:R:536:VAL:HA	2:R:541:VAL:HG12	1.86	0.57
2:R:845:LEU:O	2:R:851:LEU:HD12	2.04	0.57
2:S:120:PRO:HB3	2:S:167:LEU:CD2	2.34	0.57
2:S:256:LEU:HA	2:S:259:GLN:HE21	1.68	0.57
2:S:734:ILE:HA	2:S:737:VAL:CG2	2.34	0.57
2:S:773:LYS:HD3	2:S:777:PHE:CE2	2.39	0.57
2:S:806:LEU:CD2	2:S:808:LEU:HD11	2.33	0.57
1:A:148:LEU:HD12	1:A:787:ASN:ND2	2.18	0.57
1:D:579:ASP:O	1:D:583:GLU:OE1	2.22	0.57
1:J:150:GLU:OE1	1:J:747:SER:OG	2.22	0.57
2:M:37:LEU:HD21	2:M:311:LYS:HG2	1.85	0.57
2:M:192:GLY:CA	2:S:131:LYS:HD3	2.35	0.57
2:M:336:MET:HE3	2:M:342:ILE:HG13	1.84	0.57
2:M:370:GLU:O	2:M:370:GLU:HG3	2.04	0.57
2:M:419:ASN:HA	2:M:422:TYR:HD1	1.69	0.57
2:M:562:PRO:HG2	2:M:570:PHE:CD2	2.39	0.57
2:M:577:ASN:HD22	2:M:921:THR:HG22	1.69	0.57
2:M:878:ILE:HG13	2:M:879:ASP:N	2.18	0.57
2:N:148:LYS:HA	2:N:151:GLU:OE2	2.04	0.57
2:N:371:LEU:HD11	2:N:480:ILE:HG12	1.85	0.57
2:N:376:VAL:HG23	2:N:377:ARG:HD3	1.87	0.57
2:N:651:ALA:HB2	2:O:806:LEU:CD1	2.35	0.57
2:N:758:ARG:NH1	2:N:928:ASP:O	2.35	0.57
2:P:71:VAL:HG22	2:P:248:VAL:CG2	2.33	0.57
2:P:125:VAL:O	2:P:129:LEU:HG	2.02	0.57
2:P:202:GLU:O	2:P:206:ARG:HG2	2.04	0.57
2:P:425:MET:CE	2:P:478:CYS:HA	2.35	0.57
2:P:527:LYS:HA	2:P:530:GLN:OE1	2.04	0.57
2:Q:177:PHE:O	2:Q:181:LEU:HD13	2.05	0.57
2:Q:205:LYS:HE2	2:Q:245:LYS:HD3	1.85	0.57
2:Q:456:GLN:HA	2:Q:458:ARG:NH2	2.19	0.57
2:Q:567:ILE:HB	2:Q:753:LYS:NZ	2.20	0.57
2:Q:783:LEU:HD23	2:Q:817:PHE:CE2	2.40	0.57
2:R:198:GLU:HA	2:R:201:GLU:HG2	1.85	0.57
2:R:259:GLN:HE21	2:S:273:LEU:HD21	1.69	0.57
2:R:707:SER:HA	2:R:710:ILE:HD11	1.86	0.57
2:S:41:LEU:CD2	2:S:308:ILE:HG12	2.34	0.57
2:S:235:GLU:O	2:S:239:LYS:HG2	2.03	0.57
1:A:441:ASP:OD1	1:A:445:GLN:NE2	2.37	0.57
1:B:663:ASP:OD1	1:B:664:ASN:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:771:LYS:HD2	1:F:772:PHE:CE1	2.39	0.57
1:J:220:ARG:NE	1:J:256:THR:HG21	2.19	0.57
1:K:404:LEU:O	1:K:407:VAL:HG12	2.04	0.57
1:L:415:GLU:O	1:L:796:HIS:NE2	2.37	0.57
2:M:218:ILE:HB	2:M:248:VAL:HG22	1.86	0.57
2:M:553:ARG:HH11	2:M:553:ARG:HG2	1.70	0.57
2:M:568:GLY:O	2:M:575:GLN:N	2.31	0.57
2:M:585:PRO:HB2	2:M:586:GLU:OE1	2.05	0.57
2:N:312:THR:HG23	2:N:315:GLN:H	1.70	0.57
2:N:564:ASP:O	2:N:565:GLU:HB2	2.04	0.57
2:N:713:VAL:HG22	2:N:849:PRO:CG	2.35	0.57
2:P:503:VAL:O	2:P:507:SER:OG	2.19	0.57
2:P:573:MET:HB3	2:P:621:SER:CB	2.33	0.57
2:Q:134:SER:HA	2:Q:137:LEU:CD2	2.35	0.57
2:R:197:SER:HB3	2:R:239:LYS:O	2.05	0.57
2:R:206:ARG:HA	2:R:206:ARG:NE	2.20	0.57
2:R:386:PHE:CD1	2:R:417:LEU:HD13	2.40	0.57
2:R:439:HIS:ND1	2:R:440:ARG:HG3	2.19	0.57
2:R:610:THR:HB	2:R:652:GLN:HE21	1.68	0.57
2:S:103:ASN:H	2:S:214:LYS:HE2	1.69	0.57
2:S:112:PRO:HG2	2:S:223:ILE:HG22	1.84	0.57
2:S:218:ILE:O	2:S:249:VAL:HG22	2.04	0.57
1:B:225:VAL:O	1:B:225:VAL:HG23	2.05	0.57
1:E:11:LEU:HD12	1:E:28:ARG:HH12	1.68	0.57
1:F:225:VAL:O	1:F:225:VAL:HG23	2.05	0.57
1:F:673:VAL:N	1:G:55:TYR:OH	2.38	0.57
1:I:92:LEU:HD23	1:I:134:PRO:CB	2.35	0.57
1:I:556:ARG:CZ	1:I:675:VAL:HG22	2.34	0.57
1:J:165:TRP:CE2	1:J:299:GLN:OE1	2.58	0.57
2:M:415:ASN:OD1	2:M:416:LEU:N	2.35	0.57
2:M:501:LEU:CD1	2:M:734:ILE:HG23	2.35	0.57
2:M:586:GLU:OE2	2:M:758:ARG:HG3	2.04	0.57
2:N:70:ASN:ND2	2:N:247:VAL:HG22	2.20	0.57
2:N:280:SER:HA	2:N:283:LEU:HD21	1.85	0.57
2:N:329:LYS:HD3	2:N:343:ASP:CA	2.35	0.57
2:O:107:LEU:HG	2:O:132:MET:HE1	1.86	0.57
2:O:322:LYS:HE2	2:O:322:LYS:HA	1.86	0.57
2:O:352:VAL:O	2:O:356:LEU:N	2.38	0.57
2:O:418:ARG:NH1	2:O:419:ASN:OD1	2.38	0.57
2:O:467:ARG:HH11	2:O:469:GLN:CB	2.18	0.57
2:O:552:ASN:OD1	2:O:553:ARG:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:727:ILE:HG13	2:O:729:PRO:HD3	1.87	0.57
2:P:177:PHE:O	2:P:180:ALA:HB3	2.04	0.57
2:P:197:SER:HB3	2:P:239:LYS:O	2.05	0.57
2:P:382:VAL:HG23	2:P:383:LEU:HD22	1.87	0.57
2:P:415:ASN:CA	2:P:488:GLU:HG3	2.35	0.57
2:P:427:SER:HB2	2:Q:295:GLN:NE2	2.19	0.57
2:P:427:SER:OG	2:Q:298:LEU:HD23	2.04	0.57
2:P:462:THR:HB	2:P:465:TYR:CD2	2.40	0.57
2:P:823:ILE:HG23	2:P:827:LYS:HZ3	1.70	0.57
2:Q:425:MET:HE3	2:Q:480:ILE:HD11	1.87	0.57
2:Q:605:ALA:HB3	2:Q:650:ILE:CG2	2.34	0.57
2:Q:783:LEU:HG	2:Q:842:PHE:HE1	1.70	0.57
2:R:278:LYS:HA	2:R:283:LEU:HD21	1.85	0.57
2:R:628:ALA:HB1	2:R:649:VAL:HG21	1.85	0.57
2:R:875:ASN:HB2	2:R:892:TRP:CH2	2.40	0.57
2:S:217:LEU:HD13	2:S:247:VAL:HG13	1.86	0.57
2:S:498:LEU:HD12	2:S:630:ALA:HA	1.86	0.57
2:S:551:ALA:CB	2:S:624:ASN:HA	2.33	0.57
1:B:617:GLU:OE1	1:B:641:ARG:NH1	2.38	0.57
1:F:219:CYS:HA	1:F:272:TRP:HE1	1.69	0.57
1:G:19:SER:O	1:G:290:ARG:NH1	2.38	0.57
1:G:225:VAL:HG23	1:G:225:VAL:O	2.05	0.57
1:H:605:GLN:HA	1:H:608:GLU:OE1	2.04	0.57
1:I:691:ALA:HB1	1:I:695:LYS:NZ	2.20	0.57
1:J:225:VAL:O	1:J:225:VAL:HG23	2.05	0.57
1:K:219:CYS:HA	1:K:272:TRP:HE1	1.70	0.57
1:K:657:LYS:O	1:K:661:THR:OG1	2.23	0.57
1:L:334:TYR:CD2	1:L:373:VAL:HG12	2.40	0.57
1:L:499:VAL:O	1:L:531:CYS:N	2.35	0.57
2:M:113:THR:HG23	2:M:223:ILE:HA	1.87	0.57
2:M:414:PRO:HB2	2:M:488:GLU:CG	2.34	0.57
2:M:651:ALA:HA	2:N:806:LEU:HD11	1.85	0.57
2:N:103:ASN:H	2:N:214:LYS:HD3	1.70	0.57
2:N:575:GLN:OE1	2:N:576:LEU:N	2.37	0.57
2:N:591:PHE:CZ	2:N:917:LEU:HD12	2.40	0.57
2:N:756:LEU:HB3	2:N:927:TYR:HE1	1.70	0.57
2:O:72:PHE:CZ	2:O:306:LYS:HE3	2.40	0.57
2:O:107:LEU:HD21	2:O:129:LEU:HG	1.86	0.57
2:O:200:PHE:HE2	2:O:246:LEU:HD21	1.70	0.57
2:O:297:TYR:HA	2:O:300:LYS:HZ1	1.69	0.57
2:O:348:ILE:HG21	2:O:368:VAL:HG13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:507:SER:HA	2:O:539:MET:CE	2.26	0.57
2:O:575:GLN:CD	2:O:617:MET:HG2	2.24	0.57
2:O:770:ASN:ND2	2:O:773:LYS:HE3	2.20	0.57
2:O:894:TYR:CD2	2:O:910:PHE:HE2	2.23	0.57
2:Q:135:ASP:CA	2:Q:138:LYS:HG2	2.34	0.57
2:Q:173:LYS:H	2:Q:176:TYR:HD2	1.52	0.57
2:Q:386:PHE:CA	2:Q:389:LYS:HE2	2.20	0.57
2:Q:423:GLY:HA2	2:R:307:ARG:HH12	1.69	0.57
2:Q:443:MET:CE	2:Q:496:LYS:HB3	2.35	0.57
2:Q:617:MET:HB3	2:Q:619:PHE:CZ	2.39	0.57
2:Q:818:GLU:HB3	2:Q:870:LYS:HE2	1.87	0.57
2:Q:820:LYS:O	2:Q:824:ILE:HG13	2.04	0.57
2:R:107:LEU:HD12	2:R:218:ILE:HG22	1.86	0.57
2:R:573:MET:HB2	2:R:620:CYS:O	2.04	0.57
2:S:389:LYS:HE2	2:S:416:LEU:CG	2.21	0.57
2:S:412:SER:OG	2:S:414:PRO:HD2	2.05	0.57
2:S:501:LEU:CD1	2:S:738:TRP:HB2	2.34	0.57
2:S:596:GLU:HG3	2:S:604:MET:CE	2.35	0.57
2:S:724:GLU:O	2:S:727:ILE:HG22	2.03	0.57
1:A:300:ASN:O	1:A:304:THR:HG23	2.05	0.57
1:A:682:ASP:OD1	1:A:683:GLU:N	2.37	0.57
1:D:21:ASP:OD2	1:D:235:GLN:NE2	2.38	0.57
1:F:752:ILE:CG2	1:F:755:ALA:HB2	2.33	0.57
1:G:510:ILE:HD12	1:G:534:ILE:HD13	1.87	0.57
1:G:582:ILE:O	1:G:585:VAL:HG12	2.05	0.57
1:I:95:PHE:O	1:I:99:GLN:OE1	2.23	0.57
1:J:334:TYR:CD2	1:J:373:VAL:HG12	2.40	0.57
1:K:35:LEU:O	1:K:39:GLU:OE1	2.22	0.57
1:K:205:LYS:HZ1	1:K:208:LEU:HD22	1.69	0.57
1:L:567:LEU:HD21	1:L:688:LEU:HD22	1.87	0.57
2:M:107:LEU:HB3	2:M:128:ARG:CD	2.35	0.57
2:M:107:LEU:HA	2:M:132:MET:HE1	1.87	0.57
2:M:413:VAL:HB	2:M:414:PRO:HD3	1.86	0.57
2:M:509:SER:HB3	2:M:742:TYR:CE1	2.39	0.57
2:M:571:LEU:HD23	2:M:745:LEU:HB3	1.86	0.57
2:M:599:LEU:HB2	2:M:709:ALA:HB2	1.87	0.57
2:M:718:LYS:HD2	2:M:719:ASN:N	2.19	0.57
2:M:732:LEU:HG	2:M:736:LYS:CE	2.35	0.57
2:M:875:ASN:HA	2:M:878:ILE:HG12	1.86	0.57
2:N:171:GLU:HG2	2:N:172:TYR:N	2.18	0.57
2:N:200:PHE:O	2:N:204:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:757:TYR:CD1	2:N:929:LYS:HG3	2.40	0.57
2:N:856:PHE:HA	2:N:861:ILE:HD11	1.87	0.57
2:O:178:SER:O	2:O:181:LEU:HG	2.05	0.57
2:O:530:GLN:OE1	2:O:533:SER:HB2	2.04	0.57
2:P:121:ILE:O	2:P:125:VAL:HG23	2.05	0.57
2:P:506:GLY:HA2	2:P:738:TRP:CZ2	2.40	0.57
2:P:594:ASP:HA	2:P:601:LYS:HZ2	1.69	0.57
2:P:851:LEU:HD23	2:P:855:ILE:CG1	2.35	0.57
2:Q:265:GLN:HE22	2:Q:294:GLU:N	2.03	0.57
2:Q:509:SER:HB3	2:Q:742:TYR:CE1	2.40	0.57
2:R:136:LYS:O	2:R:136:LYS:HD2	2.05	0.57
2:R:596:GLU:C	2:R:601:LYS:HB2	2.25	0.57
2:S:136:LYS:CD	2:S:211:LEU:HA	2.34	0.57
2:S:358:LEU:O	2:S:359:ARG:HG2	2.05	0.57
2:S:425:MET:O	2:S:428:ASN:HB2	2.05	0.57
2:S:473:GLU:CB	2:S:476:ARG:HH21	2.17	0.57
2:S:575:GLN:HB3	2:S:617:MET:CE	2.33	0.57
2:S:588:TYR:CZ	2:S:761:GLU:HB3	2.40	0.57
2:S:776:ARG:HH12	2:S:861:ILE:HA	1.69	0.57
2:S:810:PRO:CG	2:S:816:GLU:HB2	2.31	0.57
1:A:322:THR:O	1:A:326:LEU:HG	2.05	0.57
1:C:34:PHE:O	1:C:37:GLN:NE2	2.38	0.57
1:F:178:ASP:OD2	1:F:324:THR:HG23	2.04	0.57
1:J:44:LEU:HD12	1:J:45:PRO:CD	2.35	0.57
1:L:752:ILE:CG2	1:L:755:ALA:HB2	2.35	0.57
2:M:503:VAL:O	2:M:507:SER:OG	2.10	0.57
2:N:257:TYR:HA	2:N:260:LEU:HD12	1.87	0.57
2:N:279:GLU:CG	2:N:282:ARG:NH1	2.65	0.57
2:N:293:LEU:HA	2:N:296:GLN:HG3	1.87	0.57
2:N:311:LYS:HE3	2:N:316:LEU:CA	2.14	0.57
2:N:363:ASP:CA	2:N:366:MET:HG3	2.34	0.57
2:N:446:LEU:O	2:N:450:ILE:HD12	2.04	0.57
2:O:569:VAL:O	2:O:753:LYS:HE3	2.04	0.57
2:P:82:LYS:H	2:P:377:ARG:NH2	2.02	0.57
2:P:265:GLN:NE2	2:P:290:VAL:O	2.31	0.57
2:P:802:ILE:CG2	2:P:807:ARG:HH21	2.18	0.57
2:Q:166:LEU:HD12	2:Q:196:LEU:CD1	2.35	0.57
2:Q:261:ILE:HD11	2:Q:294:GLU:CG	2.28	0.57
2:Q:727:ILE:HG12	2:Q:729:PRO:CG	2.34	0.57
2:R:511:PHE:HB2	2:R:535:TYR:CE2	2.40	0.57
2:S:218:ILE:CG1	2:S:248:VAL:HG22	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:279:GLU:CD	2:S:282:ARG:HG3	2.25	0.57
2:S:365:ASP:O	2:S:368:VAL:HG22	2.04	0.57
2:S:418:ARG:O	2:S:481:TYR:HE1	1.88	0.57
2:S:488:GLU:OE1	2:S:489:ASN:ND2	2.38	0.57
2:S:727:ILE:HG12	2:S:729:PRO:CG	2.34	0.57
1:A:418:LEU:CB	1:A:463:ILE:HD13	2.34	0.56
1:H:514:ASP:OD1	1:H:692:VAL:HG22	2.04	0.56
1:H:752:ILE:CG2	1:H:755:ALA:HB2	2.35	0.56
1:I:421:HIS:HA	1:I:467:ASP:OD1	2.04	0.56
1:L:689:GLN:OE1	1:L:726:ARG:NH2	2.34	0.56
2:M:45:ILE:HG13	2:M:46:ARG:N	2.20	0.56
2:M:120:PRO:HG2	2:M:123:VAL:CG2	2.35	0.56
2:M:218:ILE:CD1	2:M:246:LEU:HD22	2.22	0.56
2:M:282:ARG:HA	2:M:285:GLU:OE2	2.04	0.56
2:M:453:TYR:CZ	2:M:466:LEU:HD13	2.39	0.56
2:M:514:PHE:HZ	2:M:571:LEU:HD12	1.68	0.56
2:M:868:LEU:O	2:M:872:THR:HG23	2.03	0.56
2:N:113:THR:O	2:O:238:ARG:NH2	2.38	0.56
2:N:271:LYS:HG3	2:N:272:THR:H	1.68	0.56
2:N:436:TYR:CZ	2:O:255:ARG:HB3	2.40	0.56
2:N:833:LYS:HE3	2:N:838:THR:CG2	2.26	0.56
2:O:204:VAL:HG11	2:O:246:LEU:HD12	1.86	0.56
2:P:493:SER:CB	2:P:496:LYS:HB2	2.35	0.56
2:P:569:VAL:CG2	2:P:922:ILE:HD13	2.35	0.56
2:P:648:LYS:O	2:P:648:LYS:HD3	2.05	0.56
2:Q:802:ILE:HD12	2:Q:824:ILE:HD11	1.86	0.56
2:Q:836:LYS:HG2	2:Q:843:PHE:CD2	2.39	0.56
2:R:388:THR:HG23	2:R:392:HIS:CE1	2.40	0.56
2:R:760:ALA:HA	2:R:768:GLN:CG	2.31	0.56
2:R:771:ALA:CB	2:R:917:LEU:HD11	2.35	0.56
2:R:843:PHE:O	2:R:846:ILE:HG22	2.05	0.56
2:S:153:TRP:O	2:S:157:LEU:HG	2.05	0.56
2:S:530:GLN:O	2:S:534:GLU:OE1	2.23	0.56
1:B:227:LEU:O	1:B:227:LEU:HD23	2.05	0.56
1:C:535:GLY:HA2	1:C:726:ARG:HE	1.69	0.56
1:D:456:GLU:HG2	1:D:456:GLU:O	2.04	0.56
1:D:659:TRP:HA	1:D:665:VAL:HG11	1.85	0.56
1:H:494:HIS:HB3	1:H:795:PHE:CD1	2.39	0.56
1:J:364:ASN:O	1:J:367:GLN:NE2	2.38	0.56
1:L:159:THR:HG22	1:L:337:ARG:HH11	1.70	0.56
1:L:225:VAL:O	1:L:225:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:499:GLN:HE21	2:M:503:VAL:HG21	1.70	0.56
2:N:389:LYS:NZ	2:N:419:ASN:HB2	2.20	0.56
2:N:834:THR:O	2:N:837:ASN:HB2	2.04	0.56
2:N:874:PHE:O	2:N:878:ILE:HG13	2.05	0.56
2:O:574:VAL:HB	2:O:620:CYS:SG	2.45	0.56
2:O:757:TYR:H	2:O:760:ALA:HB2	1.70	0.56
2:P:227:PHE:HZ	2:Q:268:ASN:HB3	1.68	0.56
2:P:376:VAL:CG1	2:P:377:ARG:HD2	2.34	0.56
2:P:481:TYR:O	2:P:484:SER:OG	2.20	0.56
2:P:511:PHE:HA	2:P:515:VAL:CG2	2.36	0.56
2:P:593:ILE:CD1	2:P:605:ALA:HB2	2.36	0.56
2:P:727:ILE:CD1	2:P:841:LEU:HD21	2.35	0.56
2:P:787:LEU:HB2	2:P:842:PHE:CD1	2.40	0.56
2:Q:262:ARG:NH1	2:Q:291:GLU:HG2	2.17	0.56
2:Q:353:ARG:HE	2:Q:360:GLU:HA	1.69	0.56
2:R:524:ASP:HB3	2:R:527:LYS:HD3	1.86	0.56
2:S:158:ALA:HA	2:S:161:GLN:CG	2.34	0.56
2:S:314:LEU:O	2:S:314:LEU:HD23	2.04	0.56
1:A:602:THR:O	1:A:606:VAL:HG23	2.05	0.56
1:B:680:LEU:HD11	1:B:685:VAL:HG22	1.87	0.56
1:C:244:THR:OG1	1:C:251:GLU:OE2	2.23	0.56
1:C:579:ASP:O	1:C:583:GLU:OE1	2.23	0.56
1:E:97:GLU:O	1:E:100:THR:OG1	2.23	0.56
1:E:389:TRP:O	1:E:391:HIS:N	2.38	0.56
1:F:533:ALA:O	1:F:689:GLN:NE2	2.37	0.56
1:H:579:ASP:O	1:H:583:GLU:OE1	2.23	0.56
1:I:177:ARG:HD2	1:I:181:LYS:HZ1	1.70	0.56
1:I:218:LEU:HD23	1:I:288:LEU:HD11	1.86	0.56
1:I:225:VAL:O	1:I:225:VAL:HG23	2.04	0.56
1:J:374:LEU:HD11	1:J:404:LEU:HD12	1.87	0.56
1:L:641:ARG:O	1:L:644:VAL:HG22	2.06	0.56
2:M:121:ILE:H	2:M:121:ILE:HD12	1.70	0.56
2:M:345:ARG:HH22	2:M:369:ASN:ND2	2.03	0.56
2:M:446:LEU:HD21	2:M:486:VAL:CA	2.35	0.56
2:M:727:ILE:C	2:M:729:PRO:HD3	2.26	0.56
2:N:133:VAL:HB	2:N:153:TRP:CZ2	2.40	0.56
2:N:260:LEU:O	2:N:264:LYS:HG2	2.06	0.56
2:N:370:GLU:CD	2:N:476:ARG:HD2	2.26	0.56
2:N:372:LEU:O	2:N:372:LEU:HD12	2.05	0.56
2:N:412:SER:HB3	2:N:415:ASN:ND2	2.19	0.56
2:N:740:ARG:NE	2:N:809:ASN:OD1	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:70:ASN:OD1	2:O:247:VAL:HG22	2.05	0.56
2:O:787:LEU:HB2	2:O:842:PHE:CD1	2.40	0.56
2:P:373:LYS:HE2	2:P:373:LYS:HA	1.87	0.56
2:P:511:PHE:HA	2:P:515:VAL:HG23	1.86	0.56
2:P:806:LEU:HG	2:P:808:LEU:CG	2.35	0.56
2:P:856:PHE:HB3	2:P:861:ILE:HD11	1.87	0.56
2:P:914:ILE:HG21	2:P:917:LEU:HB3	1.87	0.56
2:Q:347:ALA:HB1	2:Q:387:TYR:OH	2.04	0.56
2:Q:501:LEU:O	2:Q:505:CYS:HB2	2.05	0.56
2:Q:567:ILE:HD12	2:Q:753:LYS:NZ	2.19	0.56
2:Q:844:LEU:O	2:Q:847:SER:HB2	2.06	0.56
2:Q:879:ASP:CG	2:Q:885:LYS:HA	2.25	0.56
2:Q:891:GLU:HG2	2:Q:910:PHE:CD2	2.40	0.56
2:R:132:MET:O	2:R:135:ASP:OD1	2.23	0.56
2:R:161:GLN:NE2	2:S:177:PHE:HD2	2.03	0.56
2:R:231:TRP:O	2:R:234:LEU:HB2	2.04	0.56
2:R:293:LEU:HA	2:R:296:GLN:CG	2.35	0.56
2:R:293:LEU:HA	2:R:296:GLN:HG3	1.86	0.56
2:R:303:PRO:HB2	2:R:306:LYS:NZ	2.21	0.56
2:R:345:ARG:HH22	2:R:369:ASN:ND2	2.04	0.56
2:R:379:LEU:HA	2:R:382:VAL:HG12	1.85	0.56
2:R:447:CYS:SG	2:R:503:VAL:HB	2.45	0.56
2:R:569:VAL:CG2	2:R:574:VAL:HG22	2.33	0.56
2:R:890:GLU:OE2	2:R:891:GLU:HG3	2.04	0.56
2:S:158:ALA:HA	2:S:161:GLN:HG3	1.87	0.56
2:S:259:GLN:CG	2:S:262:ARG:HH21	2.15	0.56
2:S:447:CYS:SG	2:S:503:VAL:HB	2.45	0.56
2:S:466:LEU:HD22	2:S:482:LEU:HD13	1.87	0.56
2:S:488:GLU:HA	2:S:491:GLN:NE2	2.20	0.56
1:E:90:ILE:HG13	1:E:98:TRP:CE3	2.40	0.56
1:G:596:GLU:OE2	1:G:651:ARG:NE	2.39	0.56
1:L:749:ASP:HB3	1:L:752:ILE:HG22	1.87	0.56
2:M:266:TYR:CE1	2:M:290:VAL:HG11	2.40	0.56
2:M:377:ARG:HA	2:M:380:MET:SD	2.46	0.56
2:M:577:ASN:ND2	2:M:582:GLN:HE22	2.03	0.56
2:N:311:LYS:HE3	2:N:316:LEU:HD23	1.86	0.56
2:N:455:LYS:HE3	2:N:532:ILE:HD13	1.86	0.56
2:N:456:GLN:HE21	2:N:475:LEU:HD21	1.71	0.56
2:N:609:SER:HB2	2:N:619:PHE:HB2	1.87	0.56
2:N:741:PHE:CE2	2:N:745:LEU:HD11	2.40	0.56
2:O:69:ARG:CZ	2:O:242:ASN:HA	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:233:VAL:O	2:O:237:ILE:HG13	2.06	0.56
2:O:366:MET:HE1	2:O:467:ARG:HG3	1.86	0.56
2:P:451:PHE:CE1	2:P:455:LYS:HD3	2.41	0.56
2:P:888:SER:OG	2:P:890:GLU:HG3	2.05	0.56
2:Q:70:ASN:HD21	2:Q:247:VAL:HG22	1.68	0.56
2:Q:353:ARG:NH2	2:Q:360:GLU:HG3	2.20	0.56
2:R:129:LEU:HA	2:R:132:MET:HG2	1.87	0.56
2:R:223:ILE:HD12	2:R:227:PHE:O	2.06	0.56
2:R:810:PRO:HG3	2:R:816:GLU:HB2	1.86	0.56
2:S:104:ILE:HG23	2:S:215:ALA:C	2.26	0.56
2:S:128:ARG:HA	2:S:131:LYS:HZ2	1.69	0.56
2:S:495:SER:HB2	2:S:633:SER:OG	2.05	0.56
2:S:727:ILE:CD1	2:S:841:LEU:HD11	2.36	0.56
2:S:728:ARG:HG2	2:S:796:VAL:CG1	2.35	0.56
2:S:799:ARG:HD3	2:S:800:GLU:O	2.06	0.56
1:A:55:TYR:CE2	1:L:550:SER:HB2	2.40	0.56
1:A:65:MET:HE2	1:A:70:VAL:HG13	1.86	0.56
1:E:572:GLU:O	1:E:573:LEU:HD23	2.05	0.56
1:F:728:MET:HE1	1:F:730:LEU:HD11	1.86	0.56
1:H:7:ASN:OD1	1:H:301:GLN:NE2	2.39	0.56
1:I:565:ARG:O	1:I:568:ARG:NH1	2.38	0.56
1:I:784:ALA:O	1:I:787:ASN:N	2.39	0.56
1:K:353:LEU:O	1:K:796:HIS:NE2	2.39	0.56
1:L:350:VAL:HG13	1:L:414:VAL:HG22	1.87	0.56
2:M:153:TRP:CE2	2:M:157:LEU:HD11	2.40	0.56
2:M:162:ARG:O	2:M:165:HIS:ND1	2.38	0.56
2:M:217:LEU:HD12	2:M:247:VAL:O	2.05	0.56
2:M:452:THR:CG2	2:M:456:GLN:HE22	2.19	0.56
2:M:463:GLY:O	2:M:466:LEU:HD22	2.05	0.56
2:N:70:ASN:CG	2:N:247:VAL:HG22	2.26	0.56
2:N:103:ASN:O	2:N:214:LYS:N	2.35	0.56
2:N:195:ASP:OD1	2:N:197:SER:N	2.38	0.56
2:N:258:SER:O	2:N:262:ARG:HG2	2.05	0.56
2:N:808:LEU:CD2	2:N:816:GLU:HG2	2.36	0.56
2:O:87:ASN:HB3	2:O:91:LYS:HZ3	1.71	0.56
2:P:105:LYS:HD2	2:P:211:LEU:HB3	1.87	0.56
2:P:136:LYS:HE2	2:P:211:LEU:HD22	1.87	0.56
2:P:359:ARG:NH2	2:P:797:SER:OG	2.38	0.56
2:P:390:LYS:NZ	2:P:394:THR:OG1	2.37	0.56
2:P:564:ASP:O	2:P:564:ASP:OD1	2.24	0.56
2:Q:114:LYS:NZ	2:R:239:LYS:O	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:131:LYS:CE	2:R:190:SER:HA	2.36	0.56
2:Q:303:PRO:HB2	2:Q:305:GLN:NE2	2.20	0.56
2:Q:385:ASP:O	2:Q:389:LYS:HG2	2.05	0.56
2:R:102:VAL:O	2:R:102:VAL:HG12	2.06	0.56
2:R:227:PHE:CE2	2:S:268:ASN:HB3	2.41	0.56
2:R:255:ARG:O	2:R:258:SER:OG	2.22	0.56
2:R:606:SER:HB3	2:R:650:ILE:HG13	1.86	0.56
2:R:717:LEU:HA	2:R:720:VAL:CG2	2.36	0.56
2:R:790:GLU:CD	2:R:839:HIS:HA	2.25	0.56
2:S:133:VAL:HG12	2:S:137:LEU:HD12	1.88	0.56
2:S:158:ALA:O	2:S:162:ARG:HD2	2.05	0.56
2:S:356:LEU:HD12	2:S:358:LEU:HD11	1.88	0.56
2:S:497:PHE:CE1	2:S:734:ILE:HG13	2.40	0.56
2:S:564:ASP:O	2:S:565:GLU:HB2	2.05	0.56
1:A:334:TYR:CE1	1:A:373:VAL:HG12	2.39	0.56
1:D:151:THR:O	1:D:356:ARG:NH2	2.38	0.56
1:D:728:MET:HE1	1:D:730:LEU:HD21	1.87	0.56
1:F:148:LEU:CD1	1:F:350:VAL:HG22	2.30	0.56
1:I:375:ARG:NH2	1:I:394:PRO:O	2.38	0.56
1:J:499:VAL:N	1:J:501:GLU:OE1	2.38	0.56
2:M:173:LYS:H	2:M:176:TYR:HE1	1.54	0.56
2:M:192:GLY:HA3	2:S:131:LYS:NZ	2.19	0.56
2:M:264:LYS:HA	2:M:267:GLU:OE1	2.05	0.56
2:M:343:ASP:CB	2:M:346:GLN:HB3	2.35	0.56
2:M:448:LYS:HA	2:M:541:VAL:HG22	1.88	0.56
2:M:571:LEU:HD23	2:M:745:LEU:CB	2.34	0.56
2:M:852:HIS:HA	2:M:855:ILE:CG1	2.35	0.56
2:N:328:ILE:O	2:N:329:LYS:HB3	2.03	0.56
2:N:720:VAL:CA	2:N:844:LEU:HD22	2.34	0.56
2:N:833:LYS:NZ	2:N:838:THR:H	2.03	0.56
2:O:117:ARG:HD3	2:O:118:HIS:ND1	2.20	0.56
2:O:163:GLY:HA2	2:O:165:HIS:CE1	2.41	0.56
2:O:505:CYS:HB3	2:O:738:TRP:CD1	2.40	0.56
2:O:567:ILE:HB	2:O:753:LYS:HD2	1.88	0.56
2:O:733:LEU:CD1	2:O:790:GLU:HA	2.34	0.56
2:O:833:LYS:HE2	2:O:838:THR:H	1.70	0.56
2:P:102:VAL:HG12	2:P:102:VAL:O	2.04	0.56
2:P:154:GLN:HA	2:P:157:LEU:HD22	1.88	0.56
2:Q:88:SER:HA	2:Q:91:LYS:HE2	1.86	0.56
2:Q:503:VAL:O	2:Q:507:SER:OG	2.08	0.56
2:Q:569:VAL:CG2	2:Q:774:ILE:HD13	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:570:PHE:HB2	2:Q:573:MET:SD	2.45	0.56
2:Q:588:TYR:HB3	2:Q:921:THR:OG1	2.06	0.56
2:Q:632:ILE:CD1	2:Q:645:ALA:HB1	2.35	0.56
2:Q:776:ARG:O	2:Q:780:LEU:HG	2.06	0.56
2:R:37:LEU:HA	2:R:40:GLN:OE1	2.06	0.56
2:R:38:ARG:O	2:R:42:VAL:HG23	2.06	0.56
2:R:199:ILE:O	2:R:203:LEU:HG	2.05	0.56
2:R:426:LEU:O	2:R:429:ILE:HG22	2.06	0.56
2:R:611:VAL:HG12	2:R:613:SER:N	2.18	0.56
2:R:736:LYS:NZ	2:R:789:GLU:OE2	2.31	0.56
2:R:757:TYR:HB3	2:R:930:ASP:HA	1.87	0.56
2:S:493:SER:CB	2:S:496:LYS:HB2	2.35	0.56
2:S:784:HIS:O	2:S:788:VAL:HG23	2.06	0.56
1:B:95:PHE:O	1:B:99:GLN:NE2	2.39	0.56
1:B:96:SER:O	1:B:100:THR:HG23	2.06	0.56
1:C:171:HIS:O	1:C:171:HIS:CD2	2.58	0.56
1:G:423:ILE:HG23	1:G:470:ALA:HB2	1.87	0.56
1:G:770:ARG:O	1:G:770:ARG:NH1	2.38	0.56
1:I:650:LYS:HG2	1:I:654:LYS:HZ1	1.71	0.56
1:J:265:SER:O	1:J:268:SER:N	2.38	0.56
2:M:599:LEU:HD11	2:M:850:ILE:CD1	2.33	0.56
2:M:872:THR:HA	2:M:892:TRP:CZ2	2.40	0.56
2:N:173:LYS:HZ3	2:N:175:GLU:CB	2.18	0.56
2:N:198:GLU:O	2:N:202:GLU:HG3	2.05	0.56
2:N:255:ARG:O	2:N:259:GLN:OE1	2.24	0.56
2:N:455:LYS:HA	2:N:460:PHE:CZ	2.41	0.56
2:O:549:HIS:CE1	2:O:553:ARG:HE	2.23	0.56
2:O:587:GLY:O	2:O:919:SER:HB2	2.06	0.56
2:P:74:VAL:HG22	2:P:308:ILE:CG2	2.31	0.56
2:P:105:LYS:HZ2	2:P:211:LEU:CD1	2.12	0.56
2:P:112:PRO:HG2	2:P:223:ILE:HG22	1.86	0.56
2:P:552:ASN:HD22	2:P:653:THR:HG21	1.71	0.56
2:P:586:GLU:OE1	2:P:759:ASN:HA	2.06	0.56
2:P:704:THR:HG23	2:P:705:GLU:N	2.16	0.56
2:Q:439:HIS:HB3	2:R:315:GLN:NE2	2.20	0.56
2:Q:783:LEU:HG	2:Q:817:PHE:CZ	2.40	0.56
2:Q:805:GLY:N	2:Q:807:ARG:HH12	2.03	0.56
2:R:205:LYS:CD	2:R:206:ARG:HE	2.17	0.56
2:R:455:LYS:HE3	2:R:532:ILE:CD1	2.35	0.56
2:R:575:GLN:CD	2:R:923:VAL:HG11	2.26	0.56
2:S:133:VAL:HB	2:S:153:TRP:CZ2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:289:MET:O	2:S:293:LEU:HD23	2.05	0.56
2:S:355:GLY:CA	2:S:413:VAL:HG12	2.36	0.56
1:B:20:LEU:HD13	1:B:290:ARG:HD2	1.87	0.56
1:B:356:ARG:NH2	1:B:704:GLU:OE2	2.38	0.56
1:B:375:ARG:NH2	1:B:394:PRO:O	2.38	0.56
1:D:148:LEU:HD12	1:D:349:GLN:HE22	1.71	0.56
1:D:540:ILE:HD12	1:D:543:ARG:CZ	2.36	0.56
1:E:537:THR:HG22	1:E:726:ARG:HH11	1.71	0.56
1:E:659:TRP:HA	1:E:665:VAL:HG11	1.87	0.56
1:G:33:VAL:HG21	1:G:53:TRP:CZ3	2.41	0.56
1:H:641:ARG:O	1:H:644:VAL:HG22	2.05	0.56
1:J:718:ASN:OD1	1:J:720:SER:N	2.39	0.56
1:K:45:PRO:O	1:K:47:HIS:ND1	2.39	0.56
1:K:76:ILE:HG23	1:K:80:PHE:CE2	2.40	0.56
1:K:429:ASN:OD1	1:K:430:GLY:N	2.39	0.56
1:K:741:MET:SD	1:K:741:MET:N	2.79	0.56
1:L:150:GLU:OE2	1:L:152:HIS:N	2.32	0.56
2:M:286:ARG:O	2:M:290:VAL:HG23	2.06	0.56
2:M:494:LEU:O	2:M:498:LEU:HG	2.06	0.56
2:M:716:TRP:O	2:M:720:VAL:HG23	2.06	0.56
2:N:131:LYS:NZ	2:O:190:SER:HA	2.21	0.56
2:N:173:LYS:HD2	2:N:175:GLU:N	2.21	0.56
2:N:178:SER:CA	2:N:181:LEU:HG	2.36	0.56
2:N:264:LYS:HE2	2:N:267:GLU:OE2	2.05	0.56
2:N:559:ALA:HA	2:N:570:PHE:CE2	2.40	0.56
2:N:826:GLU:CA	2:N:829:LYS:HE3	2.36	0.56
2:O:244:ARG:HA	2:O:244:ARG:NE	2.20	0.56
2:O:376:VAL:HA	2:O:379:LEU:HD21	1.88	0.56
2:O:438:GLN:HA	2:O:441:PHE:CZ	2.41	0.56
2:O:727:ILE:CD1	2:O:841:LEU:HG	2.31	0.56
2:P:577:ASN:HD22	2:P:921:THR:HG22	1.71	0.56
2:P:587:GLY:O	2:P:919:SER:HB2	2.06	0.56
2:P:857:PRO:CB	2:P:914:ILE:HB	2.32	0.56
2:Q:195:ASP:O	2:Q:199:ILE:HG13	2.05	0.56
2:Q:573:MET:HE2	2:Q:619:PHE:HB3	1.88	0.56
2:R:133:VAL:HB	2:R:153:TRP:CZ2	2.40	0.56
2:R:223:ILE:CD1	2:R:227:PHE:HA	2.35	0.56
2:R:551:ALA:HA	2:R:623:PHE:CZ	2.39	0.56
2:R:823:ILE:O	2:R:827:LYS:HD3	2.06	0.56
2:S:732:LEU:HB3	2:S:736:LYS:HZ3	1.68	0.56
1:B:12:LEU:HD21	1:B:298:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:604:ASP:O	1:E:608:GLU:OE1	2.24	0.56
1:L:469:ALA:O	1:L:470:ALA:HB3	2.05	0.56
2:M:297:TYR:CB	2:M:300:LYS:HE3	2.36	0.56
2:M:304:VAL:HG22	2:S:381:GLN:CD	2.26	0.56
2:M:359:ARG:NH1	2:M:792:LEU:O	2.33	0.56
2:M:752:HIS:CE1	2:M:811:VAL:HG12	2.41	0.56
2:N:206:ARG:HA	2:N:206:ARG:NE	2.20	0.56
2:O:263:GLY:O	2:O:266:TYR:N	2.39	0.56
2:O:628:ALA:O	2:O:632:ILE:HG12	2.06	0.56
2:O:849:PRO:O	2:O:853:PRO:HD3	2.06	0.56
2:O:864:SER:HB3	2:O:867:ALA:CB	2.35	0.56
2:P:121:ILE:O	2:P:124:THR:HG22	2.05	0.56
2:P:122:LEU:CD1	2:P:123:VAL:HG23	2.35	0.56
2:P:422:TYR:OH	2:P:436:TYR:O	2.24	0.56
2:P:632:ILE:HA	2:P:635:CYS:SG	2.46	0.56
2:P:757:TYR:HB3	2:P:930:ASP:HA	1.87	0.56
2:Q:73:PHE:O	2:Q:307:ARG:HA	2.05	0.56
2:Q:254:LEU:HA	2:Q:257:TYR:HD2	1.70	0.56
2:R:498:LEU:O	2:R:502:LEU:HD23	2.05	0.56
2:R:858:ILE:HD12	2:R:915:THR:HG22	1.88	0.56
2:S:123:VAL:O	2:S:126:THR:OG1	2.23	0.56
2:S:498:LEU:CD1	2:S:630:ALA:HA	2.36	0.56
2:S:505:CYS:SG	2:S:734:ILE:HG22	2.46	0.56
2:S:574:VAL:HG23	2:S:775:MET:SD	2.45	0.56
2:S:577:ASN:HD22	2:S:921:THR:HG22	1.70	0.56
1:B:148:LEU:HD13	1:B:787:ASN:ND2	2.21	0.56
1:B:739:VAL:O	1:B:741:MET:HE3	2.06	0.56
1:D:22:GLU:CB	1:D:25:LEU:HD21	2.36	0.56
1:E:564:TRP:O	1:E:568:ARG:HD3	2.06	0.56
1:F:46:ASP:OD2	1:F:46:ASP:O	2.23	0.56
1:F:389:TRP:O	1:F:391:HIS:N	2.39	0.56
1:G:161:ALA:HB3	1:G:753:PHE:CD1	2.40	0.56
1:G:165:TRP:HB2	1:G:303:LEU:HD21	1.87	0.56
1:G:489:LYS:HE2	1:G:489:LYS:HA	1.86	0.56
1:I:611:GLY:O	1:I:639:ARG:NH2	2.38	0.56
1:K:507:ILE:HD13	1:K:563:ILE:HD11	1.87	0.56
1:L:220:ARG:HH12	1:L:256:THR:HG21	1.70	0.56
2:M:42:VAL:O	2:M:45:ILE:HG12	2.06	0.56
2:M:223:ILE:CD1	2:M:227:PHE:HA	2.33	0.56
2:M:271:LYS:HE3	2:M:272:THR:HG23	1.87	0.56
2:M:525:ARG:NH2	2:S:530:GLN:OE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:571:LEU:O	2:M:745:LEU:HB3	2.06	0.56
2:N:195:ASP:O	2:N:198:GLU:HG3	2.04	0.56
2:N:580:SER:HB3	2:N:590:LYS:HB3	1.87	0.56
2:N:772:ALA:N	2:N:917:LEU:HG	2.21	0.56
2:O:303:PRO:O	2:O:307:ARG:HG3	2.06	0.56
2:O:551:ALA:CB	2:O:624:ASN:HA	2.34	0.56
2:P:488:GLU:OE1	2:P:489:ASN:ND2	2.39	0.56
2:P:856:PHE:HB2	2:P:887:LEU:HD11	1.88	0.56
2:Q:452:THR:O	2:Q:455:LYS:HG2	2.06	0.56
2:Q:455:LYS:HE2	2:Q:532:ILE:HD12	1.88	0.56
2:Q:841:LEU:O	2:Q:845:LEU:HG	2.06	0.56
2:R:270:SER:OG	2:R:273:LEU:HB2	2.05	0.56
2:R:761:GLU:O	2:R:762:HIS:HB2	2.06	0.56
2:R:828:LEU:HD21	2:R:838:THR:CG2	2.35	0.56
2:S:352:VAL:HG11	2:S:368:VAL:HG12	1.88	0.56
2:S:836:LYS:HD2	2:S:836:LYS:N	2.20	0.56
1:A:420:PRO:HG2	1:A:466:VAL:HG12	1.88	0.55
1:C:551:MET:SD	1:C:552:THR:N	2.79	0.55
1:J:176:LEU:O	1:J:180:GLU:OE1	2.24	0.55
1:K:649:MET:HG2	1:K:649:MET:O	2.05	0.55
1:L:668:GLN:HA	1:L:671:GLU:HG2	1.88	0.55
2:M:45:ILE:HD11	2:M:93:LEU:HD21	1.88	0.55
2:M:109:THR:HA	2:M:219:THR:OG1	2.06	0.55
2:M:198:GLU:HA	2:M:201:GLU:CG	2.36	0.55
2:M:237:ILE:CA	2:M:241:PHE:HD2	2.11	0.55
2:M:574:VAL:HG11	2:M:922:ILE:HG12	1.87	0.55
2:M:861:ILE:HD11	2:M:895:LEU:HD13	1.86	0.55
2:N:35:LYS:HG3	2:N:38:ARG:NE	2.16	0.55
2:N:596:GLU:HG3	2:N:604:MET:HE1	1.88	0.55
2:O:592:ASN:HB3	2:O:595:THR:CG2	2.35	0.55
2:O:629:ILE:CD1	2:O:850:ILE:HB	2.36	0.55
2:P:226:GLN:OE1	2:P:229:ALA:N	2.36	0.55
2:P:460:PHE:HB3	2:P:512:ASN:OD1	2.06	0.55
2:P:732:LEU:CD1	2:P:793:TYR:HB3	2.36	0.55
2:P:819:LYS:HZ2	2:P:823:ILE:HD11	1.71	0.55
2:Q:37:LEU:CD1	2:Q:311:LYS:H	2.19	0.55
2:Q:37:LEU:HD12	2:Q:311:LYS:H	1.70	0.55
2:Q:227:PHE:CE1	2:R:268:ASN:HB2	2.41	0.55
2:Q:436:TYR:CE1	2:R:254:LEU:HD11	2.40	0.55
2:Q:454:VAL:HG21	2:Q:508:VAL:HG21	1.87	0.55
2:Q:460:PHE:HB3	2:Q:512:ASN:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:558:VAL:HG22	2:Q:570:PHE:CD2	2.41	0.55
2:Q:588:TYR:HE2	2:Q:758:ARG:O	1.88	0.55
2:Q:593:ILE:HG12	2:Q:601:LYS:HZ2	1.70	0.55
2:Q:713:VAL:HG12	2:Q:717:LEU:HD13	1.88	0.55
2:R:173:LYS:HD2	2:R:175:GLU:HB2	1.87	0.55
2:R:329:LYS:HZ2	2:R:343:ASP:H	1.54	0.55
2:R:344:VAL:O	2:R:348:ILE:HG13	2.06	0.55
2:S:563:ASN:O	2:S:564:ASP:HB2	2.05	0.55
2:S:639:ARG:HG2	2:S:714:GLU:OE1	2.04	0.55
1:A:6:LEU:HG	1:A:72:ILE:HD13	1.88	0.55
1:B:288:LEU:O	1:B:292:LEU:HD23	2.06	0.55
1:B:583:GLU:OE1	1:B:679:TYR:OH	2.18	0.55
1:C:342:HIS:NE2	1:C:345:GLY:O	2.39	0.55
1:D:225:VAL:O	1:D:225:VAL:HG23	2.06	0.55
1:G:469:ALA:O	1:G:470:ALA:HB3	2.06	0.55
1:I:299:GLN:O	1:I:303:LEU:HD13	2.07	0.55
1:L:27:GLU:OE1	1:L:27:GLU:N	2.37	0.55
1:L:472:GLU:OE1	1:L:502:ASP:N	2.34	0.55
2:M:74:VAL:HG21	2:M:86:ILE:CD1	2.33	0.55
2:M:381:GLN:HE21	2:N:304:VAL:H	1.51	0.55
2:M:826:GLU:O	2:M:829:LYS:HG2	2.06	0.55
2:N:134:SER:HA	2:N:137:LEU:HB2	1.88	0.55
2:N:543:ARG:HG2	2:O:469:GLN:HE22	1.71	0.55
2:O:487:SER:O	2:O:491:GLN:HG3	2.06	0.55
2:O:782:PHE:O	2:O:786:VAL:HG23	2.06	0.55
2:O:794:HIS:CG	2:O:796:VAL:HG22	2.41	0.55
2:O:928:ASP:OD1	2:O:929:LYS:N	2.39	0.55
2:P:105:LYS:HG3	2:P:213:CYS:SG	2.47	0.55
2:P:173:LYS:HB3	2:P:176:TYR:CE2	2.40	0.55
2:P:737:VAL:HG12	2:P:789:GLU:CB	2.36	0.55
2:P:758:ARG:HD2	2:P:928:ASP:O	2.06	0.55
2:P:810:PRO:HG3	2:P:816:GLU:CB	2.25	0.55
2:Q:156:HIS:HB3	2:Q:203:LEU:CD2	2.36	0.55
2:Q:230:GLY:O	2:Q:234:LEU:HD13	2.07	0.55
2:Q:263:GLY:HA2	2:Q:266:TYR:HD2	1.71	0.55
2:Q:611:VAL:HG12	2:Q:613:SER:H	1.72	0.55
2:Q:760:ALA:HA	2:Q:768:GLN:CG	2.29	0.55
2:Q:768:GLN:CG	2:Q:931:THR:HG21	2.35	0.55
2:R:426:LEU:CA	2:R:429:ILE:HG22	2.35	0.55
2:S:108:PRO:HB2	2:S:128:ARG:HH11	1.71	0.55
2:S:194:GLN:HA	2:S:194:GLN:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:443:MET:HG2	2:S:489:ASN:HB3	1.88	0.55
2:S:761:GLU:O	2:S:762:HIS:HB2	2.07	0.55
1:C:441:ASP:OD2	1:C:445:GLN:NE2	2.40	0.55
1:H:271:CYS:O	1:H:274:THR:OG1	2.21	0.55
1:K:53:TRP:CH2	1:K:57:VAL:HG11	2.41	0.55
1:K:779:ALA:O	1:K:783:VAL:HG23	2.06	0.55
2:M:229:ALA:O	2:M:232:ASP:HB2	2.06	0.55
2:N:103:ASN:HB3	2:N:214:LYS:HD2	1.87	0.55
2:N:651:ALA:HB2	2:O:806:LEU:HD11	1.86	0.55
2:O:518:LEU:CD2	2:O:660:TRP:HB2	2.35	0.55
2:P:123:VAL:HG22	2:Q:177:PHE:CE1	2.40	0.55
2:P:223:ILE:HD12	2:P:227:PHE:O	2.07	0.55
2:P:274:LEU:HD23	2:P:286:ARG:NH1	2.22	0.55
2:P:477:ASN:O	2:P:480:ILE:HG22	2.06	0.55
2:Q:131:LYS:HB2	2:R:192:GLY:HA2	1.89	0.55
2:Q:134:SER:HA	2:Q:137:LEU:HD21	1.88	0.55
2:Q:226:GLN:HE22	2:Q:228:ASP:CB	2.04	0.55
2:Q:564:ASP:O	2:Q:564:ASP:OD1	2.23	0.55
2:Q:578:ARG:HH21	2:Q:590:LYS:CD	2.14	0.55
2:Q:783:LEU:HG	2:Q:842:PHE:CE1	2.41	0.55
2:Q:787:LEU:HD12	2:Q:839:HIS:CD2	2.41	0.55
2:R:418:ARG:HH21	2:R:485:GLN:NE2	2.04	0.55
2:R:537:ALA:CA	2:R:543:ARG:HH22	2.15	0.55
2:S:107:LEU:HD12	2:S:218:ILE:CG2	2.31	0.55
2:S:108:PRO:HB2	2:S:128:ARG:HD3	1.86	0.55
2:S:720:VAL:HG22	2:S:844:LEU:HD13	1.88	0.55
2:S:740:ARG:HG3	2:S:744:ASN:HD21	1.71	0.55
1:C:160:SER:OG	1:C:162:GLU:OE2	2.24	0.55
1:C:218:LEU:HA	1:C:221:VAL:HG22	1.89	0.55
1:E:140:GLU:O	1:E:144:THR:HG23	2.07	0.55
1:F:550:SER:HB2	1:G:55:TYR:CZ	2.41	0.55
1:G:607:PHE:O	1:G:610:ARG:NH1	2.40	0.55
1:I:82:LYS:NZ	1:I:91:ASP:OD2	2.36	0.55
1:I:220:ARG:NH1	1:I:254:PHE:O	2.37	0.55
1:K:132:LEU:HD12	1:K:133:TYR:H	1.71	0.55
1:L:116:VAL:HG12	1:L:117:PHE:CD1	2.42	0.55
2:M:71:VAL:HG11	2:M:302:PHE:CE2	2.42	0.55
2:M:121:ILE:O	2:M:124:THR:OG1	2.19	0.55
2:M:249:VAL:O	2:M:249:VAL:HG13	2.07	0.55
2:M:354:GLU:HG3	2:M:413:VAL:HG11	1.88	0.55
2:M:358:LEU:O	2:M:359:ARG:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:467:ARG:HG2	2:M:468:PRO:HD2	1.87	0.55
2:M:553:ARG:NE	2:M:655:CYS:HB2	2.22	0.55
2:M:802:ILE:CD1	2:M:824:ILE:HD11	2.36	0.55
2:N:223:ILE:HD11	2:N:256:LEU:HD13	1.86	0.55
2:N:313:MET:HE1	2:N:328:ILE:HG13	1.87	0.55
2:N:596:GLU:O	2:N:601:LYS:HD2	2.07	0.55
2:N:604:MET:HE2	2:N:914:ILE:HG12	1.87	0.55
2:O:274:LEU:HD12	2:P:276:GLN:NE2	2.22	0.55
2:O:327:GLU:OE1	2:O:329:LYS:HD3	2.07	0.55
2:P:103:ASN:ND2	2:P:213:CYS:HA	2.21	0.55
2:P:637:CYS:SG	2:P:718:LYS:HD3	2.45	0.55
2:Q:223:ILE:HD12	2:Q:227:PHE:CA	2.36	0.55
2:R:363:ASP:O	2:R:366:MET:HG3	2.07	0.55
2:S:102:VAL:HG12	2:S:102:VAL:O	2.07	0.55
2:S:116:PRO:CD	2:S:119:GLU:HG3	2.35	0.55
2:S:173:LYS:HZ2	2:S:175:GLU:N	2.05	0.55
2:S:297:TYR:C	2:S:301:LEU:HD12	2.27	0.55
2:S:468:PRO:HB3	2:S:476:ARG:HB3	1.88	0.55
1:B:303:LEU:HB3	1:B:753:PHE:CE1	2.41	0.55
1:C:90:ILE:CD1	1:C:132:LEU:HD23	2.37	0.55
1:C:612:LEU:HD13	1:C:639:ARG:HH11	1.71	0.55
1:C:741:MET:SD	1:C:743:ILE:HD11	2.46	0.55
1:D:69:PRO:HD3	1:D:293:TRP:CE2	2.42	0.55
1:D:214:ILE:HG21	1:D:295:TYR:HB2	1.87	0.55
1:D:377:TYR:OH	1:D:414:VAL:O	2.16	0.55
1:F:374:LEU:HB3	1:F:400:VAL:HG11	1.89	0.55
1:H:497:TYR:HD2	1:H:499:VAL:HG13	1.72	0.55
1:I:540:ILE:O	1:I:540:ILE:HG23	2.06	0.55
1:L:579:ASP:O	1:L:583:GLU:OE1	2.25	0.55
1:L:702:ALA:HB2	1:L:793:TYR:HD2	1.71	0.55
2:M:332:THR:HB	2:M:336:MET:HE3	1.88	0.55
2:M:609:SER:O	2:M:618:ASP:HA	2.05	0.55
2:M:852:HIS:HA	2:M:855:ILE:HD12	1.87	0.55
2:N:448:LYS:O	2:N:452:THR:HG23	2.06	0.55
2:O:108:PRO:O	2:O:128:ARG:NH1	2.39	0.55
2:O:250:ALA:HB3	2:O:302:PHE:CZ	2.41	0.55
2:O:348:ILE:HG22	2:O:368:VAL:HG22	1.87	0.55
2:O:431:ARG:NE	2:O:431:ARG:HA	2.22	0.55
2:O:588:TYR:CZ	2:O:761:GLU:HB3	2.42	0.55
2:P:173:LYS:HB3	2:P:176:TYR:CZ	2.41	0.55
2:P:195:ASP:HB2	2:P:198:GLU:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:200:PHE:O	2:P:203:LEU:HB2	2.06	0.55
2:P:217:LEU:HD11	2:P:249:VAL:HG11	1.87	0.55
2:P:333:GLU:OE1	2:P:336:MET:HE2	2.05	0.55
2:P:509:SER:HG	2:P:738:TRP:HE1	1.54	0.55
2:P:769:SER:HA	2:P:773:LYS:HE2	1.87	0.55
2:P:769:SER:CA	2:P:773:LYS:HE3	2.36	0.55
2:Q:112:PRO:HG2	2:Q:223:ILE:CG2	2.35	0.55
2:Q:426:LEU:CA	2:Q:429:ILE:HG22	2.35	0.55
2:Q:431:ARG:HA	2:Q:431:ARG:NE	2.21	0.55
2:Q:470:SER:C	2:Q:476:ARG:HE	2.06	0.55
2:Q:494:LEU:O	2:Q:498:LEU:HG	2.05	0.55
2:Q:769:SER:HA	2:Q:773:LYS:HG3	1.89	0.55
2:Q:815:ASP:HA	2:Q:870:LYS:HE2	1.89	0.55
2:R:235:GLU:CA	2:R:238:ARG:HG2	2.28	0.55
2:R:283:LEU:HA	2:R:286:ARG:NH1	2.22	0.55
2:R:316:LEU:HD23	2:R:325:LYS:HZ2	1.71	0.55
2:R:356:LEU:HD13	2:R:358:LEU:HD22	1.88	0.55
2:R:570:PHE:HE1	2:R:575:GLN:HB2	1.71	0.55
2:S:136:LYS:HE3	2:S:211:LEU:CA	2.36	0.55
2:S:605:ALA:O	2:S:608:LEU:HB3	2.06	0.55
1:A:781:ARG:O	1:A:785:GLU:OE1	2.25	0.55
1:C:509:GLY:O	1:C:512:SER:OG	2.19	0.55
1:D:448:ILE:HA	1:D:451:ASP:OD1	2.07	0.55
1:E:212:CYS:O	1:E:215:ARG:HG2	2.06	0.55
1:F:45:PRO:O	1:F:47:HIS:ND1	2.39	0.55
1:J:374:LEU:HD11	1:J:404:LEU:CD1	2.37	0.55
1:K:535:GLY:HA3	1:K:727:TRP:CH2	2.42	0.55
1:K:615:GLU:OE2	1:K:637:TYR:OH	2.23	0.55
2:M:82:LYS:N	2:M:82:LYS:HD3	2.21	0.55
2:M:85:PHE:O	2:M:89:VAL:HG23	2.07	0.55
2:M:352:VAL:HG21	2:M:368:VAL:CG1	2.36	0.55
2:M:446:LEU:HD11	2:M:486:VAL:HG12	1.87	0.55
2:M:489:ASN:CB	2:M:500:MET:HE1	2.36	0.55
2:M:527:LYS:O	2:M:531:LEU:HD13	2.06	0.55
2:M:540:SER:HB3	2:M:543:ARG:O	2.06	0.55
2:N:76:GLY:N	2:N:82:LYS:HE2	2.22	0.55
2:N:236:SER:HA	2:N:240:PHE:CD2	2.38	0.55
2:N:304:VAL:HA	2:N:307:ARG:NH1	2.22	0.55
2:N:858:ILE:CG2	2:N:918:ASN:HD22	2.19	0.55
2:O:218:ILE:HG23	2:O:248:VAL:HG22	1.85	0.55
2:O:232:ASP:O	2:O:235:GLU:HG2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:329:LYS:NZ	2:O:343:ASP:H	2.04	0.55
2:O:574:VAL:HG11	2:O:771:ALA:CB	2.37	0.55
2:P:159:GLN:HG3	2:P:162:ARG:NH2	2.12	0.55
2:P:385:ASP:OD1	2:P:386:PHE:N	2.39	0.55
2:P:511:PHE:CE2	2:P:516:THR:HG22	2.41	0.55
2:Q:334:PRO:HG2	2:Q:391:TYR:CE1	2.42	0.55
2:Q:549:HIS:HD2	2:Q:552:ASN:HD21	1.53	0.55
2:Q:604:MET:SD	2:Q:917:LEU:HD11	2.45	0.55
2:Q:816:GLU:O	2:Q:820:LYS:HG3	2.06	0.55
2:R:426:LEU:O	2:R:430:TYR:N	2.30	0.55
2:R:760:ALA:O	2:R:768:GLN:HB3	2.07	0.55
2:S:38:ARG:HB2	2:S:89:VAL:CG2	2.36	0.55
2:S:511:PHE:O	2:S:515:VAL:N	2.31	0.55
2:S:729:PRO:CB	2:S:734:ILE:HD11	2.35	0.55
2:S:763:GLY:HA3	2:S:859:GLY:O	2.06	0.55
2:S:801:TYR:HE1	2:S:831:ASP:OD2	1.90	0.55
2:S:879:ASP:HA	2:S:884:ASP:O	2.07	0.55
1:A:450:MET:CE	1:A:632:LEU:HD12	2.36	0.55
1:B:29:VAL:O	1:B:32:SER:OG	2.20	0.55
1:D:394:PRO:C	1:D:395:LEU:HD12	2.28	0.55
1:D:494:HIS:HB3	1:D:795:PHE:CE2	2.41	0.55
1:E:27:GLU:O	1:E:30:GLU:HG2	2.07	0.55
1:F:238:GLN:N	1:F:238:GLN:OE1	2.39	0.55
1:G:356:ARG:NH2	1:G:467:ASP:OD2	2.40	0.55
1:J:124:GLN:N	1:J:124:GLN:OE1	2.39	0.55
1:L:89:LYS:HA	1:L:132:LEU:HD11	1.89	0.55
1:L:210:ILE:O	1:L:214:ILE:HG12	2.06	0.55
1:L:609:MET:HE1	1:L:643:LEU:HD22	1.89	0.55
2:M:482:LEU:O	2:M:485:GLN:HG2	2.06	0.55
2:M:741:PHE:HE1	2:M:782:PHE:N	2.05	0.55
2:N:42:VAL:HG21	2:N:92:SER:OG	2.07	0.55
2:N:574:VAL:CG2	2:N:774:ILE:HG21	2.37	0.55
2:N:761:GLU:O	2:N:762:HIS:HB2	2.07	0.55
2:O:312:THR:H	2:O:315:GLN:NE2	1.94	0.55
2:O:394:THR:O	2:O:395:SER:HB2	2.07	0.55
2:O:412:SER:OG	2:O:488:GLU:OE1	2.24	0.55
2:P:223:ILE:HD12	2:P:227:PHE:HA	1.89	0.55
2:P:422:TYR:HD1	2:P:481:TYR:HH	1.53	0.55
2:P:468:PRO:O	2:P:476:ARG:NH1	2.40	0.55
2:P:724:GLU:O	2:P:727:ILE:HG22	2.06	0.55
2:P:921:THR:HG23	2:P:927:TYR:CE2	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:208:CYS:HB2	2:Q:245:LYS:HZ3	1.71	0.55
2:Q:259:GLN:NE2	2:R:289:MET:SD	2.80	0.55
2:Q:333:GLU:HB3	2:Q:336:MET:CG	2.34	0.55
2:Q:777:PHE:HA	2:Q:780:LEU:HD12	1.88	0.55
2:R:274:LEU:HD22	2:R:286:ARG:NH2	2.21	0.55
2:R:314:LEU:O	2:R:314:LEU:HD23	2.07	0.55
2:R:368:VAL:HA	2:R:371:LEU:CD1	2.34	0.55
2:S:110:ILE:O	2:S:220:PHE:HA	2.06	0.55
2:S:599:LEU:CD1	2:S:709:ALA:HB1	2.36	0.55
1:D:151:THR:O	1:D:354:GLU:OE1	2.25	0.55
1:F:218:LEU:HB2	1:F:272:TRP:HZ2	1.72	0.55
1:F:525:GLY:N	1:F:700:ASN:O	2.31	0.55
1:G:556:ARG:CZ	1:G:583:GLU:OE2	2.55	0.55
1:I:364:ASN:O	1:I:367:GLN:NE2	2.39	0.55
1:J:456:GLU:OE2	1:J:458:ARG:NE	2.30	0.55
1:L:388:GLU:CD	1:L:390:VAL:H	2.09	0.55
2:M:112:PRO:CA	2:M:115:LEU:HD12	2.26	0.55
2:M:309:GLN:HE22	2:M:311:LYS:HE2	1.71	0.55
2:M:388:THR:HG23	2:M:392:HIS:HE1	1.71	0.55
2:M:428:ASN:CB	2:M:477:ASN:HD21	2.20	0.55
2:M:448:LYS:CD	2:M:541:VAL:HG13	2.27	0.55
2:M:453:TYR:CE2	2:M:466:LEU:HD13	2.42	0.55
2:N:197:SER:HB2	2:N:239:LYS:O	2.07	0.55
2:N:445:SER:HA	2:N:448:LYS:NZ	2.22	0.55
2:N:758:ARG:NH2	2:N:928:ASP:HA	2.21	0.55
2:N:786:VAL:HG21	2:N:845:LEU:HD13	1.88	0.55
2:P:37:LEU:CG	2:P:308:ILE:HD11	2.37	0.55
2:Q:305:GLN:OE1	2:Q:305:GLN:N	2.37	0.55
2:Q:456:GLN:HA	2:Q:458:ARG:HH22	1.72	0.55
2:Q:628:ALA:HB1	2:Q:649:VAL:HG21	1.89	0.55
2:R:110:ILE:HD12	2:R:219:THR:O	2.07	0.55
2:R:180:ALA:HA	2:R:194:GLN:OE1	2.07	0.55
2:R:355:GLY:HA2	2:R:413:VAL:HG12	1.88	0.55
2:S:121:ILE:HD12	2:S:121:ILE:H	1.72	0.55
2:S:219:THR:HG23	2:S:249:VAL:HG23	1.89	0.55
2:S:506:GLY:HA2	2:S:738:TRP:CE2	2.42	0.55
2:S:776:ARG:HD2	2:S:857:PRO:HD2	1.87	0.55
1:B:526:ASP:C	1:B:701:ILE:HD12	2.27	0.55
1:F:401:LEU:HD11	1:F:459:LEU:CD2	2.37	0.55
1:F:782:LYS:HA	1:F:785:GLU:OE1	2.07	0.55
1:H:194:GLN:OE1	1:I:35:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:632:LEU:HD23	1:H:632:LEU:O	2.06	0.55
1:I:220:ARG:HG3	1:I:256:THR:HG21	1.88	0.55
2:M:223:ILE:HD11	2:M:256:LEU:HD13	1.89	0.55
2:M:281:VAL:O	2:M:285:GLU:OE1	2.24	0.55
2:M:366:MET:SD	2:M:367:TYR:N	2.80	0.55
2:M:755:ARG:HB3	2:M:769:SER:CB	2.37	0.55
2:M:817:PHE:O	2:M:821:ILE:HG23	2.07	0.55
2:N:166:LEU:H	2:N:166:LEU:HD12	1.71	0.55
2:N:707:SER:O	2:N:711:THR:HG23	2.06	0.55
2:O:161:GLN:HA	2:O:164:LEU:HD12	1.87	0.55
2:O:294:GLU:O	2:O:298:LEU:HD23	2.07	0.55
2:O:599:LEU:HD13	2:O:912:ASN:OD1	2.07	0.55
2:O:751:GLN:OE1	2:O:811:VAL:HB	2.06	0.55
2:O:814:VAL:HG12	2:O:814:VAL:O	2.07	0.55
2:P:363:ASP:HA	2:P:366:MET:CE	2.32	0.55
2:Q:173:LYS:HE3	2:Q:176:TYR:CE1	2.42	0.55
2:Q:563:ASN:O	2:Q:564:ASP:OD1	2.24	0.55
2:Q:575:GLN:HG3	2:Q:619:PHE:CE2	2.42	0.55
2:Q:720:VAL:HG22	2:Q:844:LEU:HB3	1.89	0.55
2:Q:856:PHE:HB3	2:Q:861:ILE:HD11	1.89	0.55
2:R:69:ARG:HG2	2:R:300:LYS:O	2.06	0.55
2:R:177:PHE:CD2	2:R:181:LEU:HD11	2.41	0.55
2:R:431:ARG:HH11	2:S:262:ARG:HH11	1.55	0.55
2:R:872:THR:O	2:R:876:LYS:HE2	2.06	0.55
2:S:152:GLN:HA	2:S:152:GLN:OE1	2.06	0.55
2:S:416:LEU:HA	2:S:419:ASN:OD1	2.07	0.55
2:S:453:TYR:CE1	2:S:475:LEU:HD22	2.42	0.55
2:S:566:LYS:O	2:S:566:LYS:HG3	2.07	0.55
1:A:214:ILE:HD12	1:A:291:LEU:HD22	1.89	0.55
1:E:274:THR:O	1:E:278:GLU:OE1	2.25	0.55
1:E:784:ALA:O	1:E:788:GLU:OE1	2.25	0.55
1:K:158:SER:O	1:K:337:ARG:NH2	2.33	0.55
1:L:142:TYR:O	1:L:146:GLU:OE1	2.25	0.55
2:M:574:VAL:HG13	2:M:922:ILE:CG2	2.37	0.55
2:M:578:ARG:HD2	2:M:579:LYS:CE	2.36	0.55
2:M:592:ASN:HB3	2:M:595:THR:CG2	2.37	0.55
2:M:705:GLU:O	2:M:705:GLU:HG3	2.06	0.55
2:N:138:LYS:HD2	2:N:139:GLY:N	2.22	0.55
2:O:123:VAL:HG13	2:P:177:PHE:CE1	2.42	0.55
2:O:332:THR:HG23	2:O:387:TYR:CG	2.42	0.55
2:O:348:ILE:CG2	2:O:368:VAL:HG13	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:603:ALA:CB	2:O:853:PRO:HG2	2.36	0.55
2:O:720:VAL:HA	2:O:844:LEU:CD2	2.36	0.55
2:O:740:ARG:NH2	2:O:784:HIS:HE1	2.05	0.55
2:O:861:ILE:HG12	2:O:871:GLU:OE2	2.07	0.55
2:O:875:ASN:O	2:O:878:ILE:HG12	2.07	0.55
2:P:303:PRO:HG2	2:P:306:LYS:HD3	1.89	0.55
2:P:314:LEU:CB	2:P:373:LYS:HE3	2.38	0.55
2:P:377:ARG:HA	2:P:380:MET:CE	2.37	0.55
2:P:427:SER:HB3	2:Q:295:GLN:OE1	2.07	0.55
2:P:714:GLU:O	2:P:718:LYS:HG2	2.07	0.55
2:Q:591:PHE:HE2	2:Q:608:LEU:HD11	1.70	0.55
2:Q:876:LYS:O	2:Q:880:GLU:HG2	2.07	0.55
2:R:81:GLY:HA3	2:R:377:ARG:NH1	2.22	0.55
2:R:311:LYS:HE3	2:R:315:GLN:C	2.27	0.55
2:R:642:ILE:HD11	2:R:714:GLU:OE1	2.06	0.55
2:R:866:LYS:HE2	2:R:866:LYS:HA	1.89	0.55
2:S:113:THR:HG22	2:S:226:GLN:HB3	1.89	0.55
2:S:173:LYS:HB3	2:S:176:TYR:CZ	2.42	0.55
2:S:182:LYS:C	2:S:183:LEU:HD22	2.26	0.55
2:S:366:MET:HE3	2:S:467:ARG:HD3	1.86	0.55
1:B:581:ALA:HB1	1:B:600:ILE:HD13	1.89	0.54
1:D:634:LEU:O	1:D:638:GLU:OE1	2.25	0.54
1:E:601:THR:O	1:E:605:GLN:OE1	2.25	0.54
1:G:602:THR:O	1:G:606:VAL:HG23	2.06	0.54
1:H:148:LEU:HB2	1:H:757:LEU:HD22	1.89	0.54
1:K:431:GLU:OE2	1:K:435:HIS:N	2.36	0.54
1:L:149:HIS:NE2	1:L:791:ARG:HB2	2.22	0.54
2:M:103:ASN:N	2:M:214:LYS:HD3	2.22	0.54
2:M:309:GLN:NE2	2:M:310:LEU:O	2.40	0.54
2:M:594:ASP:HA	2:M:601:LYS:HZ3	1.72	0.54
2:M:736:LYS:O	2:M:739:SER:OG	2.20	0.54
2:M:737:VAL:HA	2:M:789:GLU:HG2	1.90	0.54
2:N:133:VAL:HB	2:N:153:TRP:CH2	2.42	0.54
2:N:353:ARG:O	2:N:358:LEU:N	2.40	0.54
2:N:517:GLU:HG2	2:N:518:LEU:HD12	1.89	0.54
2:P:128:ARG:HG2	2:Q:191:ILE:O	2.08	0.54
2:P:381:GLN:CD	2:Q:304:VAL:HG22	2.28	0.54
2:P:580:SER:CB	2:P:590:LYS:HB3	2.37	0.54
2:Q:120:PRO:HG2	2:Q:123:VAL:HB	1.89	0.54
2:Q:911:GLN:HG2	2:Q:912:ASN:ND2	2.22	0.54
2:R:241:PHE:HA	2:R:246:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:425:MET:O	2:R:429:ILE:N	2.27	0.54
2:R:515:VAL:HG21	2:R:535:TYR:HE1	1.70	0.54
2:R:852:HIS:HA	2:R:855:ILE:HD12	1.89	0.54
2:R:874:PHE:CE1	2:R:878:ILE:HD11	2.42	0.54
2:S:231:TRP:CD1	2:S:264:LYS:HD2	2.42	0.54
2:S:389:LYS:HZ2	2:S:420:ALA:HB2	1.72	0.54
2:S:589:LYS:O	2:S:920:SER:HA	2.07	0.54
2:S:825:GLY:O	2:S:829:LYS:NZ	2.32	0.54
1:E:579:ASP:O	1:E:583:GLU:OE1	2.25	0.54
1:F:794:ARG:HH22	1:F:798:VAL:HG22	1.70	0.54
1:H:136:HIS:HB3	1:H:139:VAL:HG22	1.88	0.54
1:J:718:ASN:OD1	1:J:720:SER:OG	2.22	0.54
2:M:191:ILE:HG12	2:S:128:ARG:NH1	2.20	0.54
2:M:333:GLU:OE1	2:M:336:MET:HE2	2.06	0.54
2:M:724:GLU:HB2	2:M:727:ILE:HD12	1.90	0.54
2:M:852:HIS:HB3	2:M:886:LEU:HD13	1.88	0.54
2:N:368:VAL:HA	2:N:371:LEU:HB2	1.88	0.54
2:N:584:MET:HG2	2:N:921:THR:OG1	2.07	0.54
2:O:103:ASN:N	2:O:214:LYS:HD3	2.21	0.54
2:O:779:VAL:O	2:O:782:PHE:HB3	2.06	0.54
2:O:833:LYS:CE	2:O:838:THR:H	2.20	0.54
2:P:319:GLU:OE2	2:P:322:LYS:HE3	2.07	0.54
2:P:654:THR:HB	2:Q:743:PHE:CD1	2.42	0.54
2:Q:254:LEU:HD23	2:Q:257:TYR:CD2	2.41	0.54
2:Q:333:GLU:OE2	2:Q:334:PRO:HD2	2.07	0.54
2:Q:529:GLU:HA	2:Q:532:ILE:HG12	1.88	0.54
2:Q:548:SER:OG	2:Q:649:VAL:HG23	2.08	0.54
2:Q:571:LEU:HD12	2:Q:746:ASN:HD21	1.72	0.54
2:Q:748:VAL:HG12	2:Q:811:VAL:CA	2.35	0.54
2:Q:810:PRO:HB3	2:Q:813:SER:O	2.06	0.54
2:R:173:LYS:HZ2	2:R:175:GLU:HG3	0.72	0.54
2:R:354:GLU:N	2:R:354:GLU:OE1	2.39	0.54
2:R:759:ASN:HD21	2:R:931:THR:H	1.55	0.54
2:S:35:LYS:HG2	2:S:38:ARG:CZ	2.37	0.54
2:S:111:ASP:OD2	2:S:114:LYS:HG2	2.06	0.54
2:S:421:LEU:HD21	2:S:480:ILE:HG22	1.88	0.54
2:S:579:LYS:CD	2:S:581:ARG:HB2	2.37	0.54
2:S:629:ILE:HD11	2:S:850:ILE:HG21	1.89	0.54
2:S:928:ASP:OD1	2:S:929:LYS:N	2.36	0.54
1:B:469:ALA:O	1:B:470:ALA:HB3	2.07	0.54
1:I:96:SER:HA	1:I:99:GLN:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:70:ASN:HB3	2:M:247:VAL:HG22	1.89	0.54
2:M:277:GLU:OE2	2:S:266:TYR:OH	2.10	0.54
2:M:430:TYR:CZ	2:N:255:ARG:HG3	2.43	0.54
2:N:73:PHE:HB2	2:N:302:PHE:CD1	2.42	0.54
2:N:223:ILE:HD12	2:N:227:PHE:HA	1.89	0.54
2:N:314:LEU:CD1	2:N:372:LEU:HD23	2.38	0.54
2:N:383:LEU:HD11	2:N:387:TYR:CE2	2.42	0.54
2:N:741:PHE:CZ	2:N:745:LEU:HD11	2.41	0.54
2:O:464:PHE:CE1	2:O:735:GLY:HA2	2.42	0.54
2:O:512:ASN:OD1	2:O:516:THR:HG21	2.06	0.54
2:O:571:LEU:HD11	2:O:745:LEU:HB2	1.89	0.54
2:O:791:SER:HB2	2:O:839:HIS:HE1	1.70	0.54
2:P:314:LEU:HB3	2:P:373:LYS:HE3	1.88	0.54
2:P:340:ASP:O	2:P:342:ILE:HG13	2.06	0.54
2:P:458:ARG:HA	2:P:458:ARG:NE	2.22	0.54
2:P:584:MET:HE3	2:P:588:TYR:C	2.27	0.54
2:Q:110:ILE:HG13	2:Q:128:ARG:NH1	2.23	0.54
2:Q:113:THR:CG2	2:Q:223:ILE:HA	2.37	0.54
2:Q:498:LEU:O	2:Q:501:LEU:HG	2.08	0.54
2:Q:550:TRP:HA	2:Q:553:ARG:NH1	2.22	0.54
2:R:304:VAL:HA	2:R:307:ARG:NE	2.22	0.54
2:R:329:LYS:NZ	2:R:343:ASP:H	2.05	0.54
2:S:234:LEU:HD22	2:S:301:LEU:HD23	1.90	0.54
2:S:356:LEU:HB2	2:S:358:LEU:CG	2.35	0.54
2:S:571:LEU:HD11	2:S:746:ASN:CG	2.28	0.54
2:S:639:ARG:HA	2:S:714:GLU:CD	2.27	0.54
2:S:642:ILE:HG21	2:S:714:GLU:CG	2.36	0.54
2:S:642:ILE:HB	2:S:714:GLU:OE2	2.07	0.54
1:C:112:ALA:O	1:C:116:VAL:HG23	2.07	0.54
1:D:290:ARG:HA	1:D:293:TRP:CE3	2.39	0.54
1:D:469:ALA:O	1:D:470:ALA:HB3	2.06	0.54
1:D:556:ARG:NH2	1:D:560:LEU:HD21	2.22	0.54
1:E:718:ASN:ND2	1:E:720:SER:OG	2.40	0.54
1:F:150:GLU:OE2	1:F:353:LEU:HD12	2.07	0.54
1:F:725:PHE:HD1	1:F:730:LEU:HD22	1.72	0.54
1:H:585:VAL:HG12	1:H:589:HIS:HE1	1.72	0.54
1:I:301:GLN:O	1:I:304:THR:OG1	2.22	0.54
1:K:464:ARG:NH2	1:K:493:ALA:O	2.40	0.54
2:M:224:ASP:OD2	2:N:296:GLN:NE2	2.40	0.54
2:M:415:ASN:N	2:M:488:GLU:OE2	2.41	0.54
2:M:755:ARG:HD3	2:M:757:TYR:CE2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:817:PHE:CZ	2:N:821:ILE:HD11	2.41	0.54
2:O:366:MET:HE1	2:O:467:ARG:HG2	1.88	0.54
2:O:643:THR:HG23	2:O:710:ILE:CD1	2.38	0.54
2:O:768:GLN:HE21	2:O:931:THR:HG21	1.73	0.54
2:O:888:SER:OG	2:O:890:GLU:OE2	2.25	0.54
2:O:894:TYR:CA	2:O:897:LYS:HE3	2.20	0.54
2:P:150:LYS:O	2:P:153:TRP:HB3	2.08	0.54
2:P:303:PRO:HB2	2:P:306:LYS:CG	2.36	0.54
2:P:622:VAL:HG11	2:P:778:ASN:HB3	1.89	0.54
2:P:761:GLU:O	2:P:762:HIS:HB2	2.08	0.54
2:Q:389:LYS:NZ	2:Q:420:ALA:HB2	2.17	0.54
2:R:105:LYS:HE3	2:R:213:CYS:HB3	1.88	0.54
2:R:507:SER:HB2	2:R:550:TRP:CZ2	2.43	0.54
2:R:564:ASP:O	2:R:564:ASP:OD1	2.25	0.54
2:R:569:VAL:HG21	2:R:774:ILE:HD13	1.89	0.54
2:R:748:VAL:HA	2:R:811:VAL:HG13	1.90	0.54
2:S:83:THR:HA	2:S:86:ILE:CD1	2.37	0.54
2:S:134:SER:O	2:S:138:LYS:N	2.31	0.54
2:S:574:VAL:HG11	2:S:771:ALA:HB1	1.88	0.54
2:S:608:LEU:HD23	2:S:609:SER:N	2.21	0.54
2:S:647:ASN:HB2	2:S:648:LYS:HZ2	1.72	0.54
2:S:852:HIS:CB	2:S:886:LEU:HD11	2.38	0.54
1:A:39:GLU:O	1:A:42:ARG:NH1	2.41	0.54
1:E:183:TRP:CH2	1:E:200:THR:HA	2.43	0.54
1:F:55:TYR:OH	1:G:551:MET:O	2.26	0.54
1:G:199:LEU:O	1:G:203:ILE:HB	2.08	0.54
1:J:77:ALA:N	1:J:110:ILE:HD11	2.22	0.54
2:M:219:THR:HA	2:M:249:VAL:HG13	1.88	0.54
2:M:235:GLU:HA	2:M:238:ARG:CZ	2.37	0.54
2:M:238:ARG:HD2	2:M:239:LYS:NZ	2.22	0.54
2:M:888:SER:OG	2:M:890:GLU:HG3	2.08	0.54
2:N:226:GLN:NE2	2:N:228:ASP:HB2	2.13	0.54
2:N:573:MET:HB2	2:N:621:SER:HA	1.89	0.54
2:N:603:ALA:HB1	2:N:850:ILE:HG23	1.88	0.54
2:P:159:GLN:CG	2:P:162:ARG:HH22	2.12	0.54
2:P:741:PHE:CE1	2:P:745:LEU:HD21	2.43	0.54
2:P:744:ASN:O	2:P:748:VAL:HG13	2.07	0.54
2:Q:173:LYS:HZ2	2:Q:175:GLU:CB	2.20	0.54
2:Q:370:GLU:HA	2:Q:373:LYS:HG2	1.90	0.54
2:R:173:LYS:HG2	2:R:174:PRO:HD2	1.88	0.54
2:R:205:LYS:HD3	2:R:206:ARG:HH21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:314:LEU:HB2	2:R:372:LEU:HB3	1.90	0.54
2:R:473:GLU:O	2:R:477:ASN:ND2	2.40	0.54
2:R:593:ILE:HG13	2:R:601:LYS:HG3	1.90	0.54
2:R:761:GLU:HB2	2:R:918:ASN:OD1	2.07	0.54
2:S:307:ARG:HH12	2:S:309:GLN:HG3	1.72	0.54
2:S:380:MET:HA	2:S:383:LEU:CG	2.38	0.54
1:D:656:TYR:CE1	1:D:660:LEU:HD11	2.43	0.54
1:F:228:PRO:O	1:F:231:ILE:HG22	2.07	0.54
1:G:494:HIS:HB3	1:G:795:PHE:CE1	2.43	0.54
1:H:218:LEU:HA	1:H:221:VAL:HG22	1.90	0.54
1:H:651:ARG:HB3	1:H:652:PRO:HD3	1.90	0.54
1:J:136:HIS:N	1:J:140:GLU:OE2	2.37	0.54
1:J:152:HIS:ND1	1:J:748:ASP:OD2	2.40	0.54
1:L:690:GLN:HA	1:L:693:MET:HE2	1.88	0.54
2:M:206:ARG:HH21	2:M:210:ILE:HG13	1.73	0.54
2:M:507:SER:CA	2:M:510:ILE:HG12	2.37	0.54
2:M:578:ARG:HE	2:M:579:LYS:HE3	1.71	0.54
2:M:726:GLY:HA2	2:M:728:ARG:HH12	1.72	0.54
2:N:330:VAL:N	2:N:343:ASP:O	2.40	0.54
2:N:362:SER:HA	2:N:365:ASP:OD2	2.07	0.54
2:N:426:LEU:HA	2:N:429:ILE:CG1	2.38	0.54
2:N:467:ARG:HB3	2:N:469:GLN:OE1	2.08	0.54
2:N:790:GLU:OE2	2:N:841:LEU:HB2	2.08	0.54
2:N:876:LYS:O	2:N:880:GLU:HG3	2.08	0.54
2:O:301:LEU:CD1	2:O:302:PHE:HD2	2.20	0.54
2:O:547:ALA:HB1	2:O:627:GLY:HA2	1.89	0.54
2:P:546:SER:O	2:P:549:HIS:HB3	2.07	0.54
2:P:716:TRP:O	2:P:720:VAL:HG23	2.07	0.54
2:Q:116:PRO:HB2	2:Q:119:GLU:CD	2.27	0.54
2:Q:354:GLU:CG	2:Q:413:VAL:HG21	2.38	0.54
2:Q:370:GLU:OE2	2:Q:468:PRO:HD2	2.08	0.54
2:Q:390:LYS:NZ	2:Q:416:LEU:HB2	2.22	0.54
2:R:151:GLU:HA	2:R:154:GLN:OE1	2.07	0.54
2:R:527:LYS:HG3	2:R:528:PHE:N	2.23	0.54
2:R:596:GLU:CD	2:R:604:MET:HE1	2.28	0.54
2:S:359:ARG:HH21	2:S:793:TYR:C	2.11	0.54
2:S:435:ASN:ND2	2:S:441:PHE:HD1	2.06	0.54
2:S:473:GLU:HB3	2:S:476:ARG:HH21	1.72	0.54
2:S:741:PHE:O	2:S:745:LEU:HG	2.07	0.54
2:S:776:ARG:HB2	2:S:857:PRO:HG3	1.90	0.54
1:E:585:VAL:CG1	1:E:589:HIS:CE1	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:19:SER:O	1:F:290:ARG:NH1	2.40	0.54
1:F:781:ARG:O	1:F:785:GLU:OE1	2.25	0.54
1:H:594:LEU:HG	1:H:595:GLU:N	2.23	0.54
1:J:460:THR:O	1:J:464:ARG:NE	2.41	0.54
1:K:634:LEU:O	1:K:637:TYR:N	2.41	0.54
2:M:313:MET:CE	2:M:316:LEU:HD12	2.38	0.54
2:M:470:SER:O	2:M:476:ARG:NE	2.40	0.54
2:M:712:LYS:HE2	2:M:712:LYS:HA	1.90	0.54
2:N:159:GLN:HG2	2:N:162:ARG:HH12	1.73	0.54
2:N:866:LYS:HE2	2:N:866:LYS:HA	1.90	0.54
2:O:153:TRP:HB2	2:O:206:ARG:NH2	2.19	0.54
2:O:235:GLU:CB	2:O:239:LYS:HZ1	2.18	0.54
2:O:261:ILE:HG21	2:O:294:GLU:HG2	1.90	0.54
2:O:849:PRO:HA	2:O:852:HIS:ND1	2.22	0.54
2:P:69:ARG:CZ	2:P:69:ARG:HA	2.38	0.54
2:P:375:PRO:HD2	2:P:378:LEU:HD13	1.90	0.54
2:P:575:GLN:CG	2:P:617:MET:HE2	2.35	0.54
2:P:858:ILE:O	2:P:918:ASN:HB2	2.07	0.54
2:Q:136:LYS:CE	2:Q:211:LEU:HA	2.38	0.54
2:Q:173:LYS:HD3	2:Q:175:GLU:CB	2.33	0.54
2:Q:291:GLU:O	2:Q:295:GLN:HG2	2.07	0.54
2:Q:639:ARG:HA	2:Q:642:ILE:CG1	2.37	0.54
2:R:223:ILE:HD12	2:R:227:PHE:CA	2.38	0.54
2:R:388:THR:HG23	2:R:392:HIS:HE1	1.73	0.54
2:R:446:LEU:HD22	2:R:489:ASN:OD1	2.08	0.54
2:R:512:ASN:HA	2:R:516:THR:HG23	1.89	0.54
2:R:572:GLY:O	2:R:622:VAL:HG12	2.07	0.54
2:R:602:ALA:HB2	2:R:706:PHE:CZ	2.43	0.54
2:S:73:PHE:CE2	2:S:254:LEU:HG	2.42	0.54
2:S:133:VAL:O	2:S:137:LEU:HG	2.08	0.54
2:S:593:ILE:HG23	2:S:601:LYS:NZ	2.23	0.54
2:S:646:PHE:O	2:S:650:ILE:HD12	2.08	0.54
1:A:497:TYR:HD1	1:A:499:VAL:HG13	1.73	0.54
1:A:673:VAL:HA	1:L:55:TYR:CE2	2.42	0.54
1:D:84:GLU:O	1:D:86:GLY:N	2.41	0.54
1:G:199:LEU:O	1:G:200:THR:OG1	2.21	0.54
1:H:784:ALA:O	1:H:788:GLU:OE1	2.25	0.54
1:I:6:LEU:O	1:I:297:LEU:HD23	2.08	0.54
1:K:702:ALA:HB2	1:K:793:TYR:HD2	1.72	0.54
2:M:344:VAL:HG23	2:M:345:ARG:H	1.72	0.54
2:M:417:LEU:HD23	2:M:421:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:418:ARG:HG2	2:M:422:TYR:CZ	2.43	0.54
2:M:719:ASN:CG	2:M:723:ILE:HD11	2.28	0.54
2:M:826:GLU:OE2	2:M:827:LYS:HG3	2.08	0.54
2:N:108:PRO:HB2	2:N:128:ARG:NH1	2.23	0.54
2:N:205:LYS:HB3	2:N:206:ARG:HH22	1.73	0.54
2:N:264:LYS:HE2	2:N:264:LYS:HA	1.89	0.54
2:N:271:LYS:HA	2:N:274:LEU:CG	2.38	0.54
2:N:776:ARG:NH2	2:N:871:GLU:OE2	2.41	0.54
2:O:571:LEU:HG	2:O:745:LEU:CB	2.37	0.54
2:O:572:GLY:O	2:O:622:VAL:HG12	2.08	0.54
2:O:835:TRP:CG	2:O:881:ILE:HG23	2.43	0.54
2:P:452:THR:HG22	2:P:456:GLN:NE2	2.17	0.54
2:P:563:ASN:O	2:P:564:ASP:OD1	2.26	0.54
2:P:657:VAL:CG1	2:P:658:PRO:HD2	2.37	0.54
2:Q:37:LEU:CD1	2:Q:311:LYS:HG2	2.29	0.54
2:Q:121:ILE:O	2:Q:125:VAL:HG23	2.07	0.54
2:Q:443:MET:HE1	2:Q:496:LYS:CA	2.37	0.54
2:Q:538:TYR:CZ	2:Q:658:PRO:HD3	2.43	0.54
2:Q:748:VAL:HG12	2:Q:811:VAL:CG1	2.34	0.54
2:R:467:ARG:HD2	2:R:468:PRO:HD2	1.90	0.54
2:R:512:ASN:HA	2:R:516:THR:CG2	2.37	0.54
2:R:588:TYR:HB3	2:R:921:THR:OG1	2.08	0.54
2:R:606:SER:HB3	2:R:650:ILE:HG12	1.90	0.54
2:S:86:ILE:HG13	2:S:87:ASN:N	2.23	0.54
2:S:104:ILE:HG23	2:S:215:ALA:O	2.07	0.54
2:S:112:PRO:CG	2:S:223:ILE:HG22	2.38	0.54
2:S:625:LEU:O	2:S:629:ILE:HG12	2.08	0.54
2:S:732:LEU:HD12	2:S:736:LYS:NZ	2.22	0.54
2:S:776:ARG:O	2:S:779:VAL:HG12	2.08	0.54
1:A:538:PRO:HD2	1:A:539:SER:H	1.72	0.54
1:A:684:ALA:O	1:A:688:LEU:HD23	2.07	0.54
1:B:236:ASN:N	1:B:239:GLN:OE1	2.36	0.54
1:C:133:TYR:CE2	1:C:758:LYS:HD3	2.43	0.54
1:C:428:LYS:HD2	1:C:437:LEU:HD12	1.90	0.54
1:D:25:LEU:O	1:D:28:ARG:HD3	2.06	0.54
1:E:761:PHE:CE2	1:E:783:VAL:HG12	2.43	0.54
1:F:562:PHE:O	1:F:566:GLU:OE1	2.26	0.54
1:H:97:GLU:OE1	1:H:97:GLU:N	2.35	0.54
2:M:262:ARG:HB3	2:M:266:TYR:CE2	2.43	0.54
2:N:195:ASP:O	2:N:199:ILE:HG13	2.07	0.54
2:N:335:SER:HB2	2:N:337:GLN:NE2	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:456:GLN:HG3	2:N:475:LEU:HD21	1.90	0.54
2:N:610:THR:HB	2:N:653:THR:O	2.07	0.54
2:O:130:ASN:HA	2:O:153:TRP:CH2	2.42	0.54
2:O:223:ILE:HB	2:O:226:GLN:O	2.08	0.54
2:O:573:MET:HE2	2:O:621:SER:HB3	1.90	0.54
2:O:646:PHE:HE2	2:O:706:PHE:CD2	2.26	0.54
2:O:833:LYS:NZ	2:O:838:THR:O	2.37	0.54
2:P:295:GLN:O	2:P:299:LEU:HD23	2.08	0.54
2:P:606:SER:HB3	2:P:650:ILE:CG1	2.38	0.54
2:P:733:LEU:CD1	2:P:793:TYR:HB2	2.30	0.54
2:P:776:ARG:HH22	2:P:871:GLU:CD	2.10	0.54
2:P:799:ARG:HB3	2:P:799:ARG:CZ	2.38	0.54
2:P:829:LYS:HD2	2:P:830:ALA:N	2.23	0.54
2:Q:390:LYS:HD3	2:Q:416:LEU:HD22	1.90	0.54
2:Q:783:LEU:HD11	2:Q:846:ILE:HG23	1.90	0.54
2:Q:802:ILE:HD13	2:Q:824:ILE:HD11	1.89	0.54
2:Q:858:ILE:HD12	2:Q:915:THR:CA	2.37	0.54
2:R:198:GLU:C	2:R:201:GLU:HG2	2.28	0.54
2:R:443:MET:SD	2:R:496:LYS:HB3	2.48	0.54
2:R:513:GLN:HG3	2:R:742:TYR:OH	2.08	0.54
2:R:814:VAL:HG12	2:R:814:VAL:O	2.07	0.54
2:R:858:ILE:CD1	2:R:915:THR:HG22	2.37	0.54
2:S:466:LEU:HD22	2:S:482:LEU:CD1	2.38	0.54
1:B:342:HIS:NE2	1:B:345:GLY:O	2.40	0.54
1:D:70:VAL:HG13	1:D:71:ALA:H	1.73	0.54
1:D:429:ASN:OD1	1:D:430:GLY:N	2.41	0.54
1:E:116:VAL:HG21	1:E:277:LEU:HB2	1.90	0.54
1:E:784:ALA:O	1:E:787:ASN:N	2.42	0.54
1:F:702:ALA:HB2	1:F:793:TYR:HD2	1.73	0.54
1:G:502:ASP:OD1	1:G:503:PHE:N	2.40	0.54
1:J:511:ARG:CZ	1:J:511:ARG:HB3	2.38	0.54
2:M:430:TYR:OH	2:N:255:ARG:NH1	2.41	0.54
2:M:518:LEU:HD22	2:M:531:LEU:CG	2.38	0.54
2:M:599:LEU:HB2	2:M:709:ALA:CB	2.38	0.54
2:M:799:ARG:HD2	2:M:800:GLU:N	2.23	0.54
2:M:858:ILE:HD12	2:M:915:THR:HB	1.89	0.54
2:N:313:MET:O	2:N:316:LEU:HB2	2.08	0.54
2:O:238:ARG:NH2	2:O:239:LYS:HD2	2.23	0.54
2:O:358:LEU:O	2:O:359:ARG:HB2	2.07	0.54
2:O:381:GLN:HE22	2:P:305:GLN:CD	2.10	0.54
2:O:515:VAL:HG21	2:O:535:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:748:VAL:CG1	2:O:811:VAL:HG13	2.37	0.54
2:O:818:GLU:OE1	2:O:870:LYS:NZ	2.37	0.54
2:P:151:GLU:HA	2:P:154:GLN:OE1	2.07	0.54
2:P:257:TYR:HD2	2:P:302:PHE:HE2	1.55	0.54
2:P:852:HIS:CA	2:P:855:ILE:HG13	2.38	0.54
2:Q:114:LYS:O	2:Q:114:LYS:HG3	2.08	0.54
2:Q:120:PRO:CG	2:Q:123:VAL:HG23	2.37	0.54
2:Q:128:ARG:HA	2:R:192:GLY:CA	2.34	0.54
2:Q:237:ILE:HA	2:Q:241:PHE:HD2	1.72	0.54
2:Q:757:TYR:HE2	2:Q:767:SER:O	1.90	0.54
2:Q:857:PRO:HB3	2:Q:914:ILE:HD11	1.90	0.54
2:R:109:THR:HA	2:R:219:THR:OG1	2.07	0.54
2:R:227:PHE:CZ	2:S:268:ASN:HB3	2.43	0.54
2:R:352:VAL:HB	2:R:356:LEU:CD1	2.36	0.54
2:R:563:ASN:O	2:R:564:ASP:OD1	2.25	0.54
2:R:775:MET:HB3	2:R:854:PHE:CD2	2.43	0.54
1:E:508:SER:HA	1:E:511:ARG:NE	2.23	0.53
1:H:161:ALA:CB	1:H:303:LEU:HD11	2.38	0.53
1:H:374:LEU:HB3	1:H:400:VAL:HG11	1.90	0.53
1:I:29:VAL:O	1:I:33:VAL:HG23	2.07	0.53
1:K:534:ILE:HG21	1:K:692:VAL:HG11	1.90	0.53
1:L:12:LEU:HD21	1:L:298:ILE:HG12	1.90	0.53
1:L:538:PRO:HB2	1:L:682:ASP:OD2	2.07	0.53
2:M:117:ARG:NH1	2:M:118:HIS:HB2	2.23	0.53
2:M:266:TYR:HA	2:M:269:TYR:HD2	1.70	0.53
2:M:345:ARG:O	2:M:348:ILE:HG22	2.08	0.53
2:M:443:MET:CE	2:M:489:ASN:HB3	2.38	0.53
2:M:628:ALA:CB	2:M:649:VAL:HG21	2.37	0.53
2:M:645:ALA:O	2:M:649:VAL:HG12	2.08	0.53
2:N:178:SER:O	2:N:181:LEU:HG	2.07	0.53
2:N:195:ASP:CB	2:N:198:GLU:HG3	2.37	0.53
2:N:265:GLN:NE2	2:N:294:GLU:HA	2.19	0.53
2:N:436:TYR:CE1	2:O:255:ARG:HB3	2.43	0.53
2:N:452:THR:O	2:N:455:LYS:N	2.39	0.53
2:O:225:THR:CB	2:P:238:ARG:HH22	2.21	0.53
2:P:198:GLU:O	2:P:201:GLU:HG3	2.07	0.53
2:P:282:ARG:NE	2:P:282:ARG:HA	2.22	0.53
2:P:329:LYS:HA	2:P:343:ASP:CA	2.37	0.53
2:P:498:LEU:HA	2:P:501:LEU:HD12	1.89	0.53
2:P:593:ILE:CG1	2:P:605:ALA:HB2	2.38	0.53
2:Q:133:VAL:HB	2:Q:153:TRP:CH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:131:LYS:HD3	2:S:192:GLY:HA2	1.90	0.53
2:R:200:PHE:O	2:R:203:LEU:HB2	2.08	0.53
2:R:509:SER:CB	2:R:738:TRP:HE1	2.18	0.53
2:R:609:SER:O	2:R:619:PHE:N	2.41	0.53
2:S:518:LEU:CD1	2:S:531:LEU:HD11	2.38	0.53
2:S:576:LEU:HD12	2:S:920:SER:HB3	1.89	0.53
1:A:649:MET:SD	1:A:649:MET:O	2.66	0.53
1:B:261:ASP:OD2	1:B:262:ASP:N	2.41	0.53
1:H:650:LYS:HG3	1:H:651:ARG:H	1.71	0.53
1:I:258:TRP:CE3	1:I:263:LYS:HB2	2.43	0.53
1:I:579:ASP:O	1:I:583:GLU:OE1	2.25	0.53
1:J:599:SER:OG	1:J:602:THR:HG23	2.08	0.53
1:K:526:ASP:O	1:K:701:ILE:HD12	2.08	0.53
1:K:644:VAL:HG12	1:K:653:LEU:CD1	2.38	0.53
1:L:165:TRP:CH2	1:L:299:GLN:HA	2.43	0.53
2:M:599:LEU:HD21	2:M:849:PRO:HB2	1.89	0.53
2:M:638:GLU:CG	2:M:641:ALA:H	2.15	0.53
2:M:835:TRP:CE2	2:M:881:ILE:HG12	2.42	0.53
2:N:74:VAL:HG13	2:N:308:ILE:HG23	1.91	0.53
2:N:244:ARG:C	2:N:245:LYS:HD3	2.29	0.53
2:N:329:LYS:HD3	2:N:343:ASP:HA	1.90	0.53
2:O:336:MET:CE	2:O:342:ILE:HG13	2.38	0.53
2:O:462:THR:O	2:O:465:TYR:HB2	2.07	0.53
2:P:379:LEU:HA	2:P:382:VAL:CG2	2.38	0.53
2:P:651:ALA:HB1	2:Q:806:LEU:HD13	1.89	0.53
2:P:706:PHE:O	2:P:710:ILE:HG12	2.08	0.53
2:P:864:SER:O	2:P:867:ALA:N	2.42	0.53
2:Q:45:ILE:HG13	2:Q:46:ARG:N	2.22	0.53
2:Q:104:ILE:C	2:Q:105:LYS:HE2	2.28	0.53
2:Q:787:LEU:HB2	2:Q:842:PHE:CD1	2.42	0.53
2:R:71:VAL:HG13	2:R:248:VAL:HB	1.90	0.53
2:R:89:VAL:O	2:R:92:SER:HB3	2.07	0.53
2:R:210:ILE:HG13	2:R:211:LEU:HD22	1.89	0.53
2:R:352:VAL:HG23	2:R:353:ARG:N	2.22	0.53
2:R:519:ALA:HB2	2:R:531:LEU:HD12	1.90	0.53
2:R:824:ILE:O	2:R:828:LEU:HD13	2.09	0.53
2:S:446:LEU:CD2	2:S:486:VAL:HA	2.37	0.53
2:S:497:PHE:HE1	2:S:734:ILE:HG13	1.72	0.53
2:S:498:LEU:O	2:S:502:LEU:HG	2.07	0.53
2:S:575:GLN:HG2	2:S:619:PHE:HD2	1.73	0.53
1:J:63:ARG:NH2	1:J:78:GLU:OE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:377:TYR:OH	1:J:415:GLU:HA	2.08	0.53
1:L:191:LEU:O	1:L:195:ILE:HG22	2.09	0.53
1:L:342:HIS:NE2	1:L:345:GLY:O	2.37	0.53
2:M:191:ILE:CG1	2:S:108:PRO:HB3	2.34	0.53
2:M:234:LEU:HB3	2:M:238:ARG:HH21	1.74	0.53
2:M:507:SER:HA	2:M:510:ILE:CG1	2.37	0.53
2:M:558:VAL:O	2:M:562:PRO:HD3	2.07	0.53
2:M:727:ILE:O	2:M:728:ARG:NH2	2.41	0.53
2:M:835:TRP:CZ2	2:M:881:ILE:HG12	2.43	0.53
2:N:740:ARG:HH12	2:N:788:VAL:HG11	1.72	0.53
2:O:37:LEU:HD21	2:O:311:LYS:HB2	1.90	0.53
2:O:74:VAL:HG22	2:O:308:ILE:HB	1.90	0.53
2:O:412:SER:HB3	2:O:415:ASN:CG	2.27	0.53
2:O:468:PRO:C	2:O:476:ARG:HG3	2.29	0.53
2:P:217:LEU:HD12	2:P:247:VAL:O	2.08	0.53
2:P:430:TYR:CE1	2:Q:255:ARG:HG3	2.43	0.53
2:Q:303:PRO:HB2	2:Q:305:GLN:CD	2.27	0.53
2:Q:357:ASN:CG	2:Q:728:ARG:HD3	2.29	0.53
2:Q:430:TYR:CE2	2:R:255:ARG:HG2	2.43	0.53
2:Q:604:MET:HE2	2:Q:854:PHE:CZ	2.43	0.53
2:Q:762:HIS:HA	2:Q:918:ASN:HD21	1.73	0.53
2:R:205:LYS:HA	2:R:245:LYS:HZ1	1.73	0.53
2:R:231:TRP:NE1	2:R:235:GLU:OE2	2.41	0.53
2:R:288:TYR:O	2:R:291:GLU:HG2	2.08	0.53
2:R:357:ASN:ND2	2:R:728:ARG:HG2	2.23	0.53
2:R:588:TYR:O	2:R:589:LYS:HD2	2.08	0.53
2:R:610:THR:CG2	2:R:652:GLN:HE21	2.21	0.53
2:R:613:SER:CA	2:R:657:VAL:HG23	2.38	0.53
2:S:421:LEU:CB	2:S:481:TYR:HD1	2.21	0.53
2:S:511:PHE:CD1	2:S:515:VAL:HB	2.43	0.53
1:A:485:ARG:HB2	1:A:636:GLU:OE1	2.07	0.53
1:B:605:GLN:HA	1:B:608:GLU:OE1	2.07	0.53
1:C:44:LEU:HD11	1:C:48:VAL:HB	1.91	0.53
1:D:537:THR:HG22	1:D:726:ARG:HH11	1.74	0.53
1:E:183:TRP:O	1:E:189:LYS:HE3	2.09	0.53
1:E:542:LYS:HE2	1:E:545:LEU:O	2.08	0.53
1:H:148:LEU:HD13	1:H:757:LEU:HD22	1.91	0.53
1:H:270:PHE:O	1:H:274:THR:HG23	2.08	0.53
1:I:541:TRP:O	1:I:545:LEU:HD11	2.07	0.53
1:J:538:PRO:HA	1:J:541:TRP:HB3	1.89	0.53
1:K:2:GLU:OE2	1:K:56:LEU:HD21	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:GLU:OE1	1:K:152:HIS:N	2.41	0.53
1:K:276:LEU:HD12	1:K:279:LYS:HE3	1.90	0.53
1:K:356:ARG:HB3	1:K:421:HIS:NE2	2.24	0.53
1:L:583:GLU:O	1:L:587:LEU:HD23	2.09	0.53
2:M:271:LYS:HD2	2:M:272:THR:N	2.24	0.53
2:M:635:CYS:O	2:M:636:ARG:HB3	2.08	0.53
2:M:861:ILE:HD12	2:M:895:LEU:HB3	1.90	0.53
2:N:201:GLU:O	2:N:205:LYS:HG3	2.08	0.53
2:N:311:LYS:HD2	2:N:315:GLN:O	2.09	0.53
2:O:599:LEU:HG	2:O:709:ALA:CB	2.39	0.53
2:P:282:ARG:O	2:P:285:GLU:HG3	2.08	0.53
2:P:874:PHE:CE1	2:P:878:ILE:HD11	2.43	0.53
2:Q:42:VAL:HG22	2:Q:93:LEU:CD2	2.38	0.53
2:Q:352:VAL:O	2:Q:356:LEU:HD23	2.09	0.53
2:Q:383:LEU:HD11	2:Q:387:TYR:CZ	2.43	0.53
2:Q:573:MET:HB2	2:Q:620:CYS:O	2.08	0.53
2:R:73:PHE:HD1	2:R:250:ALA:HB3	1.73	0.53
2:R:596:GLU:HG3	2:R:604:MET:CE	2.38	0.53
2:R:745:LEU:HA	2:R:748:VAL:CG1	2.37	0.53
1:B:374:LEU:HB3	1:B:400:VAL:HG11	1.89	0.53
1:E:25:LEU:O	1:E:29:VAL:HG23	2.08	0.53
1:E:85:LYS:HG3	1:E:86:GLY:H	1.74	0.53
1:E:452:MET:O	1:E:452:MET:HE3	2.08	0.53
1:K:659:TRP:HA	1:K:665:VAL:HG11	1.90	0.53
1:K:784:ALA:O	1:K:785:GLU:C	2.47	0.53
2:M:103:ASN:HB3	2:M:214:LYS:HD2	1.91	0.53
2:M:121:ILE:HG12	2:M:233:VAL:HG22	1.90	0.53
2:M:123:VAL:HA	2:M:126:THR:OG1	2.08	0.53
2:M:352:VAL:O	2:M:356:LEU:HG	2.09	0.53
2:M:580:SER:CB	2:M:590:LYS:HD3	2.30	0.53
2:M:754:THR:HG22	2:M:754:THR:O	2.08	0.53
2:M:792:LEU:HD23	2:M:800:GLU:HG2	1.91	0.53
2:N:122:LEU:HD21	2:N:240:PHE:CD2	2.43	0.53
2:N:223:ILE:HD11	2:N:256:LEU:CD1	2.38	0.53
2:N:264:LYS:HE2	2:N:267:GLU:CD	2.29	0.53
2:N:434:LEU:HG	2:N:435:ASN:OD1	2.08	0.53
2:N:539:MET:CE	2:N:557:VAL:HG21	2.39	0.53
2:N:580:SER:HB3	2:N:590:LYS:CD	2.35	0.53
2:N:657:VAL:HG11	2:N:661:SER:CB	2.38	0.53
2:N:723:ILE:HB	2:N:844:LEU:HD11	1.91	0.53
2:N:759:ASN:OD1	2:N:931:THR:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:440:ARG:NH1	2:P:373:LYS:HG3	2.23	0.53
2:O:824:ILE:O	2:O:828:LEU:HD13	2.09	0.53
2:P:122:LEU:HD12	2:P:123:VAL:HG23	1.90	0.53
2:P:138:LYS:HE2	2:P:138:LYS:HA	1.90	0.53
2:P:164:LEU:HD13	2:Q:177:PHE:CD1	2.43	0.53
2:P:356:LEU:HB3	2:P:358:LEU:HD21	1.90	0.53
2:Q:103:ASN:O	2:Q:214:LYS:HG2	2.08	0.53
2:Q:147:ARG:N	2:Q:150:LYS:HE3	2.24	0.53
2:Q:243:SER:H	2:Q:246:LEU:HD21	1.73	0.53
2:Q:367:TYR:CZ	2:Q:467:ARG:HA	2.44	0.53
2:Q:543:ARG:HD3	2:R:469:GLN:NE2	2.21	0.53
2:Q:569:VAL:HG13	2:Q:774:ILE:HG21	1.91	0.53
2:R:107:LEU:HG	2:R:217:LEU:O	2.08	0.53
2:R:130:ASN:O	2:R:153:TRP:HH2	1.91	0.53
2:R:173:LYS:HD3	2:R:174:PRO:N	2.23	0.53
2:R:197:SER:HB3	2:R:239:LYS:HD3	1.90	0.53
2:R:197:SER:H	2:R:239:LYS:NZ	2.06	0.53
2:R:425:MET:CG	2:R:477:ASN:HB3	2.35	0.53
2:R:497:PHE:CE2	2:R:501:LEU:HD22	2.44	0.53
2:R:758:ARG:NH2	2:R:930:ASP:OD2	2.42	0.53
2:S:234:LEU:CB	2:S:238:ARG:HH12	2.18	0.53
2:S:459:ASP:OD2	2:S:463:GLY:N	2.41	0.53
2:S:603:ALA:HB1	2:S:854:PHE:HE1	1.72	0.53
1:A:537:THR:HG22	1:A:726:ARG:HH11	1.73	0.53
1:C:29:VAL:O	1:C:33:VAL:HG23	2.08	0.53
1:C:552:THR:OG1	1:C:555:THR:OG1	1.90	0.53
1:D:432:ALA:O	1:D:666:ARG:NH2	2.42	0.53
1:D:552:THR:HG22	1:D:672:TYR:CE1	2.43	0.53
1:G:29:VAL:O	1:G:33:VAL:HG23	2.08	0.53
1:I:774:LEU:HD12	1:I:774:LEU:N	2.24	0.53
1:K:664:ASN:OD1	1:K:665:VAL:N	2.41	0.53
2:N:344:VAL:HG23	2:N:345:ARG:N	2.23	0.53
2:N:427:SER:O	2:N:431:ARG:HG2	2.09	0.53
2:N:786:VAL:CG1	2:N:845:LEU:HD12	2.35	0.53
2:N:858:ILE:HG22	2:N:918:ASN:ND2	2.24	0.53
2:O:313:MET:O	2:O:316:LEU:HB2	2.08	0.53
2:O:539:MET:HG2	2:O:541:VAL:HG13	1.90	0.53
2:O:639:ARG:O	2:O:642:ILE:HB	2.09	0.53
2:O:728:ARG:HH21	2:O:796:VAL:HG12	1.73	0.53
2:P:110:ILE:CG2	2:P:220:PHE:HA	2.39	0.53
2:P:390:LYS:HD3	2:P:416:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:445:SER:HA	2:P:448:LYS:HZ2	1.71	0.53
2:P:493:SER:HB2	2:P:496:LYS:CG	2.38	0.53
2:P:794:HIS:CG	2:P:796:VAL:HG22	2.43	0.53
2:Q:42:VAL:HG22	2:Q:93:LEU:HD21	1.91	0.53
2:Q:233:VAL:O	2:Q:237:ILE:HG13	2.07	0.53
2:Q:724:GLU:O	2:Q:727:ILE:HG22	2.09	0.53
2:R:329:LYS:HD3	2:R:343:ASP:H	1.73	0.53
2:R:371:LEU:HD21	2:R:480:ILE:HD12	1.91	0.53
2:R:446:LEU:HD21	2:R:486:VAL:HA	1.90	0.53
2:R:716:TRP:NE1	2:R:848:CYS:HA	2.24	0.53
2:R:791:SER:O	2:R:800:GLU:HG3	2.09	0.53
2:S:111:ASP:HA	2:S:221:ASP:HB2	1.91	0.53
2:S:318:GLY:CA	2:S:323:ALA:HB3	2.27	0.53
2:S:319:GLU:HG2	2:S:320:LYS:N	2.24	0.53
2:S:816:GLU:O	2:S:819:LYS:HG2	2.09	0.53
2:S:870:LYS:HD2	2:S:871:GLU:HG3	1.89	0.53
1:B:596:GLU:N	1:B:596:GLU:OE1	2.40	0.53
1:E:103:SER:OG	1:E:104:ARG:NH1	2.42	0.53
1:F:794:ARG:NH1	1:F:796:HIS:O	2.41	0.53
1:G:92:LEU:HD23	1:G:134:PRO:HB2	1.89	0.53
1:G:542:LYS:HA	1:G:545:LEU:HD13	1.90	0.53
1:K:638:GLU:HB3	1:K:641:ARG:HD3	1.91	0.53
2:M:135:ASP:HA	2:M:138:LYS:HZ2	1.74	0.53
2:M:262:ARG:HA	2:M:265:GLN:OE1	2.08	0.53
2:M:348:ILE:HD11	2:M:371:LEU:CD2	2.39	0.53
2:N:571:LEU:HD23	2:N:745:LEU:HB2	1.90	0.53
2:N:579:LYS:HD3	2:N:581:ARG:HB2	1.91	0.53
2:N:720:VAL:CG2	2:N:844:LEU:HD22	2.39	0.53
2:O:779:VAL:HG21	2:O:854:PHE:HD2	1.73	0.53
2:O:786:VAL:O	2:O:790:GLU:HG2	2.09	0.53
2:P:296:GLN:OE1	2:P:300:LYS:HE2	2.08	0.53
2:P:493:SER:HB2	2:P:496:LYS:CB	2.38	0.53
2:P:625:LEU:O	2:P:625:LEU:HD12	2.09	0.53
2:Q:366:MET:O	2:Q:370:GLU:OE1	2.26	0.53
2:R:125:VAL:O	2:R:129:LEU:HG	2.08	0.53
2:R:180:ALA:CA	2:R:194:GLN:HG2	2.36	0.53
2:R:427:SER:HA	2:R:430:TYR:HB3	1.90	0.53
2:S:237:ILE:HA	2:S:241:PHE:HD2	1.68	0.53
1:A:166:LEU:HD21	1:A:269:GLU:CG	2.39	0.53
1:D:203:ILE:HG22	1:D:207:ARG:CZ	2.39	0.53
1:E:99:GLN:OE1	1:E:763:HIS:ND1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:441:ASP:O	1:F:445:GLN:NE2	2.41	0.53
1:F:728:MET:HE3	1:F:730:LEU:HD11	1.90	0.53
1:G:333:SER:C	1:G:337:ARG:HE	2.11	0.53
1:G:749:ASP:HB3	1:G:752:ILE:HG22	1.91	0.53
1:I:111:ILE:CD1	1:I:128:PHE:CE1	2.91	0.53
1:K:517:LEU:O	1:K:699:ARG:NH1	2.42	0.53
1:L:424:LYS:HD2	1:L:475:ALA:HB3	1.91	0.53
1:L:592:PHE:O	1:L:593:SER:OG	2.26	0.53
2:M:737:VAL:CA	2:M:789:GLU:HG2	2.39	0.53
2:M:835:TRP:CD2	2:M:881:ILE:HG23	2.44	0.53
2:N:151:GLU:HG2	2:N:152:GLN:N	2.23	0.53
2:N:226:GLN:OE1	2:N:229:ALA:N	2.41	0.53
2:N:311:LYS:HG3	2:N:315:GLN:OE1	2.09	0.53
2:N:345:ARG:HG3	2:N:346:GLN:N	2.24	0.53
2:N:613:SER:HB3	2:N:617:MET:CE	2.39	0.53
2:N:834:THR:O	2:N:837:ASN:N	2.42	0.53
2:O:295:GLN:O	2:O:298:LEU:HG	2.09	0.53
2:O:328:ILE:O	2:O:329:LYS:HB2	2.08	0.53
2:O:343:ASP:HB3	2:O:346:GLN:HB3	1.89	0.53
2:O:608:LEU:HG	2:O:618:ASP:OD1	2.09	0.53
2:O:814:VAL:HG12	2:O:817:PHE:HB3	1.90	0.53
2:P:120:PRO:HB2	2:P:122:LEU:CG	2.25	0.53
2:P:122:LEU:HD21	2:P:167:LEU:CD1	2.38	0.53
2:P:328:ILE:O	2:P:329:LYS:HB2	2.08	0.53
2:P:383:LEU:HD12	2:P:387:TYR:CE2	2.44	0.53
2:P:482:LEU:O	2:P:486:VAL:HG23	2.08	0.53
2:Q:153:TRP:O	2:Q:157:LEU:HG	2.07	0.53
2:Q:497:PHE:CD2	2:Q:501:LEU:HD23	2.44	0.53
2:Q:596:GLU:O	2:Q:601:LYS:HB2	2.09	0.53
2:R:163:GLY:C	2:R:196:LEU:HD21	2.30	0.53
2:R:636:ARG:HD2	2:R:638:GLU:HB2	1.91	0.53
2:S:136:LYS:HD3	2:S:210:ILE:HG22	1.91	0.53
2:S:173:LYS:HD3	2:S:173:LYS:C	2.29	0.53
2:S:234:LEU:HD23	2:S:237:ILE:CD1	2.37	0.53
2:S:429:ILE:CG2	2:S:434:LEU:HB2	2.38	0.53
2:S:547:ALA:HB3	2:S:627:GLY:O	2.09	0.53
2:S:613:SER:HB2	2:S:657:VAL:CG2	2.38	0.53
1:A:482:PRO:O	1:A:486:VAL:HG23	2.08	0.53
1:C:176:LEU:HD13	1:C:205:LYS:HB3	1.91	0.53
1:C:265:SER:O	1:C:269:GLU:OE1	2.27	0.53
1:H:656:TYR:O	1:H:660:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:THR:HG22	1:L:337:ARG:NH1	2.24	0.53
2:M:328:ILE:O	2:M:329:LYS:HB2	2.08	0.53
2:M:373:LYS:HG3	2:M:374:GLN:OE1	2.08	0.53
2:M:529:GLU:O	2:M:532:ILE:HG12	2.08	0.53
2:M:587:GLY:O	2:M:589:LYS:NZ	2.36	0.53
2:M:636:ARG:HG3	2:M:638:GLU:N	2.08	0.53
2:M:816:GLU:O	2:M:820:LYS:HD3	2.09	0.53
2:M:868:LEU:HD11	2:M:896:THR:CG2	2.38	0.53
2:N:103:ASN:N	2:N:214:LYS:HD3	2.24	0.53
2:N:173:LYS:HE3	2:N:176:TYR:CE2	2.44	0.53
2:O:296:GLN:HA	2:O:299:LEU:HD23	1.90	0.53
2:O:298:LEU:O	2:O:301:LEU:HG	2.09	0.53
2:O:460:PHE:HA	2:O:508:VAL:CG1	2.38	0.53
2:O:635:CYS:O	2:O:636:ARG:HB2	2.08	0.53
2:O:786:VAL:HG21	2:O:845:LEU:HD13	1.91	0.53
2:O:868:LEU:O	2:O:872:THR:HG23	2.08	0.53
2:P:376:VAL:HA	2:P:379:LEU:CD2	2.39	0.53
2:P:756:LEU:HA	2:P:769:SER:HB3	1.91	0.53
2:P:762:HIS:HA	2:P:918:ASN:HD21	1.72	0.53
2:Q:71:VAL:N	2:Q:306:LYS:HE2	2.24	0.53
2:Q:448:LYS:HD2	2:Q:541:VAL:O	2.08	0.53
2:R:131:LYS:HD3	2:S:192:GLY:N	2.24	0.53
2:R:352:VAL:HG23	2:R:353:ARG:H	1.72	0.53
2:R:494:LEU:CD1	2:R:844:LEU:HD13	2.30	0.53
2:R:612:ALA:HB3	2:R:655:CYS:C	2.29	0.53
2:S:45:ILE:O	2:S:48:SER:OG	2.16	0.53
2:S:70:ASN:C	2:S:306:LYS:HE2	2.30	0.53
2:S:272:THR:HA	2:S:275:GLU:OE1	2.08	0.53
2:S:356:LEU:CD2	2:S:484:SER:HA	2.38	0.53
2:S:784:HIS:HA	2:S:817:PHE:HE1	1.73	0.53
2:S:810:PRO:HG3	2:S:817:PHE:H	1.74	0.53
2:S:843:PHE:HE1	2:S:881:ILE:O	1.92	0.53
1:B:389:TRP:O	1:B:391:HIS:N	2.42	0.53
1:D:634:LEU:HD21	2:S:154:GLN:HG2	1.90	0.53
1:E:81:ILE:HD11	1:E:110:ILE:HG22	1.90	0.53
1:E:97:GLU:HA	1:E:97:GLU:OE1	2.09	0.53
1:F:219:CYS:HA	1:F:272:TRP:NE1	2.24	0.53
1:G:90:ILE:HD11	1:G:132:LEU:HB3	1.91	0.53
1:G:150:GLU:O	1:G:354:GLU:OE1	2.26	0.53
1:J:429:ASN:OD1	1:J:430:GLY:N	2.42	0.53
1:J:612:LEU:HD11	1:J:656:TYR:HE2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:227:PHE:O	2:M:260:LEU:HD21	2.09	0.53
2:M:465:TYR:CE1	2:M:736:LYS:HD2	2.44	0.53
2:M:467:ARG:NH1	2:M:469:GLN:HG2	2.24	0.53
2:M:578:ARG:HD2	2:M:579:LYS:HE3	1.89	0.53
2:N:271:LYS:HA	2:N:274:LEU:HD23	1.89	0.53
2:N:741:PHE:CZ	2:N:745:LEU:HD21	2.44	0.53
2:N:768:GLN:HG2	2:N:931:THR:CG2	2.39	0.53
2:N:816:GLU:HA	2:N:819:LYS:NZ	2.23	0.53
2:O:223:ILE:CD1	2:O:227:PHE:HA	2.36	0.53
2:O:265:GLN:HE22	2:O:294:GLU:N	2.07	0.53
2:O:524:ASP:HB3	2:O:527:LYS:HE3	1.91	0.53
2:O:571:LEU:HG	2:O:745:LEU:CD1	2.39	0.53
2:O:571:LEU:HD12	2:O:746:ASN:N	2.24	0.53
2:P:303:PRO:HG2	2:P:306:LYS:CD	2.38	0.53
2:Q:130:ASN:HA	2:Q:153:TRP:CZ2	2.44	0.53
2:Q:196:LEU:HB2	2:Q:240:PHE:HZ	1.74	0.53
2:Q:348:ILE:CG2	2:Q:371:LEU:HD22	2.35	0.53
2:Q:737:VAL:N	2:Q:789:GLU:HG2	2.24	0.53
2:Q:777:PHE:CD1	2:Q:780:LEU:HD12	2.44	0.53
2:R:206:ARG:NH2	2:R:209:GLU:HG3	2.24	0.53
2:R:497:PHE:CE1	2:R:734:ILE:HG12	2.44	0.53
2:R:826:GLU:OE1	2:R:827:LYS:NZ	2.41	0.53
2:S:173:LYS:HD3	2:S:175:GLU:N	2.15	0.53
2:S:727:ILE:HD11	2:S:841:LEU:HD11	1.91	0.53
2:S:729:PRO:HA	2:S:733:LEU:HD23	1.90	0.53
1:D:227:LEU:HD13	1:D:231:ILE:HD11	1.91	0.52
1:D:784:ALA:O	1:D:788:GLU:OE1	2.27	0.52
1:E:85:LYS:HG3	1:E:86:GLY:N	2.24	0.52
1:F:218:LEU:HD23	1:F:288:LEU:HD12	1.89	0.52
1:G:714:SER:O	1:G:717:ARG:NH2	2.35	0.52
1:H:418:LEU:HB2	1:H:463:ILE:HD13	1.90	0.52
1:I:286:GLU:OE1	1:I:290:ARG:NH1	2.41	0.52
1:I:420:PRO:O	1:I:467:ASP:OD1	2.27	0.52
1:K:69:PRO:HD3	1:K:293:TRP:CD1	2.43	0.52
1:K:158:SER:HB3	1:K:337:ARG:NH2	2.25	0.52
1:K:220:ARG:NH2	1:K:255:ALA:O	2.42	0.52
1:K:259:PRO:HA	2:R:140:TYR:HD1	1.74	0.52
1:K:554:GLU:CG	1:K:669:ARG:HG2	2.39	0.52
2:M:35:LYS:HE2	2:M:38:ARG:HH21	1.74	0.52
2:M:329:LYS:HE2	2:M:343:ASP:HA	1.90	0.52
2:M:560:ASN:HD21	2:M:661:SER:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:575:GLN:NE2	2:M:617:MET:HB3	2.24	0.52
2:M:578:ARG:NH1	2:M:616:LEU:O	2.42	0.52
2:M:629:ILE:HD11	2:M:851:LEU:HD21	1.91	0.52
2:M:727:ILE:HG21	2:M:841:LEU:HD21	1.91	0.52
2:M:856:PHE:CB	2:M:887:LEU:HD11	2.36	0.52
2:N:38:ARG:HB3	2:N:85:PHE:CE1	2.44	0.52
2:N:111:ASP:HA	2:N:221:ASP:HB2	1.90	0.52
2:N:335:SER:CB	2:N:337:GLN:HE22	2.18	0.52
2:N:611:VAL:HG12	2:N:613:SER:H	1.73	0.52
2:N:713:VAL:HG22	2:N:849:PRO:HG2	1.91	0.52
2:N:727:ILE:CG1	2:N:840:PRO:HG2	2.38	0.52
2:N:727:ILE:C	2:N:728:ARG:HD3	2.30	0.52
2:N:787:LEU:HB2	2:N:842:PHE:CD1	2.44	0.52
2:O:41:LEU:CD2	2:O:45:ILE:HD11	2.38	0.52
2:O:344:VAL:HG23	2:O:345:ARG:N	2.23	0.52
2:O:519:ALA:HB1	2:O:527:LYS:HZ2	1.73	0.52
2:O:605:ALA:HB3	2:O:650:ILE:CG2	2.39	0.52
2:P:136:LYS:CE	2:P:211:LEU:HD22	2.39	0.52
2:P:206:ARG:HH21	2:P:209:GLU:CD	2.12	0.52
2:P:235:GLU:O	2:P:238:ARG:HG2	2.09	0.52
2:P:768:GLN:CG	2:P:931:THR:HG21	2.39	0.52
2:Q:331:LYS:HG2	2:Q:336:MET:CB	2.39	0.52
2:Q:611:VAL:HB	2:Q:619:PHE:CE1	2.35	0.52
2:Q:807:ARG:HE	2:Q:820:LYS:HE3	1.74	0.52
2:R:377:ARG:O	2:R:380:MET:HG2	2.09	0.52
2:R:383:LEU:HD11	2:R:387:TYR:CE2	2.45	0.52
2:R:511:PHE:HA	2:R:515:VAL:CB	2.33	0.52
2:R:733:LEU:O	2:R:737:VAL:HG23	2.09	0.52
2:S:35:LYS:HA	2:S:38:ARG:NE	2.24	0.52
2:S:181:LEU:CB	2:S:182:LYS:HZ2	2.20	0.52
2:S:386:PHE:HA	2:S:389:LYS:HZ1	1.69	0.52
2:S:495:SER:HB3	2:S:634:ALA:HB2	1.90	0.52
1:B:148:LEU:HB3	1:B:757:LEU:HD23	1.91	0.52
1:B:153:GLN:NE2	1:B:353:LEU:HD11	2.24	0.52
1:B:702:ALA:O	1:B:703:ILE:HD13	2.09	0.52
1:C:205:LYS:NZ	1:C:206:ASP:OD1	2.40	0.52
1:C:450:MET:CE	1:C:632:LEU:HD12	2.39	0.52
1:C:726:ARG:HD2	1:C:727:TRP:N	2.23	0.52
1:E:178:ASP:OD2	1:E:324:THR:N	2.41	0.52
1:F:63:ARG:HE	1:F:65:MET:CE	2.21	0.52
1:F:150:GLU:OE1	1:F:152:HIS:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:200:THR:OG1	1:F:202:ARG:NE	2.41	0.52
1:H:273:LEU:HD23	1:H:276:LEU:HD12	1.91	0.52
1:I:401:LEU:HD22	1:I:462:TRP:CZ3	2.45	0.52
1:I:612:LEU:HD12	1:I:613:LEU:H	1.74	0.52
1:J:202:ARG:HA	1:J:202:ARG:NE	2.23	0.52
1:K:535:GLY:O	1:K:726:ARG:NH1	2.42	0.52
1:L:220:ARG:NH1	1:L:256:THR:HG21	2.24	0.52
2:M:103:ASN:H	2:M:214:LYS:HD3	1.75	0.52
2:M:162:ARG:HB3	2:M:162:ARG:CZ	2.39	0.52
2:M:452:THR:HA	2:M:455:LYS:HZ1	1.74	0.52
2:M:646:PHE:HZ	2:M:713:VAL:CG1	2.22	0.52
2:M:856:PHE:CE2	2:M:878:ILE:HD11	2.44	0.52
2:N:318:GLY:CA	2:N:323:ALA:HB3	2.22	0.52
2:N:615:ASN:HB2	2:N:617:MET:SD	2.49	0.52
2:N:851:LEU:O	2:N:855:ILE:HG13	2.09	0.52
2:O:314:LEU:HD13	2:O:372:LEU:CD1	2.39	0.52
2:O:642:ILE:HG22	2:O:710:ILE:HG23	1.91	0.52
2:P:42:VAL:HG13	2:P:93:LEU:HD21	1.91	0.52
2:P:428:ASN:N	2:Q:295:GLN:HE22	2.06	0.52
2:P:580:SER:HB3	2:P:590:LYS:CD	2.36	0.52
2:Q:122:LEU:HD22	2:Q:240:PHE:CE1	2.44	0.52
2:Q:354:GLU:CG	2:Q:413:VAL:HG11	2.40	0.52
2:Q:356:LEU:HD13	2:Q:484:SER:HA	1.91	0.52
2:Q:727:ILE:HG12	2:Q:729:PRO:CD	2.39	0.52
2:Q:852:HIS:HA	2:Q:855:ILE:HG13	1.92	0.52
2:R:133:VAL:HG13	2:R:210:ILE:HD12	1.92	0.52
2:R:370:GLU:O	2:R:370:GLU:HG3	2.09	0.52
2:R:496:LYS:O	2:R:499:GLN:HG2	2.09	0.52
2:R:622:VAL:HG23	2:R:779:VAL:HG22	1.91	0.52
2:R:639:ARG:O	2:R:642:ILE:HB	2.09	0.52
2:R:736:LYS:HG3	2:R:789:GLU:CG	2.38	0.52
1:A:322:THR:OG1	1:A:323:MET:SD	2.63	0.52
1:B:69:PRO:HD3	1:B:293:TRP:CE2	2.45	0.52
1:B:612:LEU:HD11	1:B:643:LEU:HD12	1.92	0.52
1:C:469:ALA:O	1:C:470:ALA:HB3	2.08	0.52
1:D:45:PRO:HD2	1:D:48:VAL:HG23	1.92	0.52
1:D:140:GLU:O	1:D:144:THR:HG23	2.09	0.52
1:E:646:THR:HB	1:E:649:MET:HE3	1.91	0.52
1:G:533:ALA:O	1:G:689:GLN:NE2	2.42	0.52
1:G:777:ALA:O	1:G:781:ARG:HD3	2.09	0.52
1:K:6:LEU:O	1:K:300:ASN:ND2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:79:LYS:NZ	1:L:94:MET:SD	2.73	0.52
2:M:37:LEU:HD21	2:M:311:LYS:CG	2.40	0.52
2:M:85:PHE:O	2:M:88:SER:OG	2.22	0.52
2:M:539:MET:SD	2:M:541:VAL:N	2.82	0.52
2:M:568:GLY:O	2:M:574:VAL:HA	2.09	0.52
2:M:755:ARG:NH1	2:M:767:SER:HA	2.24	0.52
2:N:49:ILE:HD13	2:N:104:ILE:CD1	2.33	0.52
2:N:72:PHE:HA	2:N:306:LYS:O	2.09	0.52
2:N:103:ASN:H	2:N:214:LYS:NZ	2.07	0.52
2:N:427:SER:HB3	2:O:295:GLN:CD	2.30	0.52
2:N:436:TYR:HE1	2:O:255:ARG:HG2	1.74	0.52
2:N:480:ILE:H	2:N:480:ILE:HD12	1.74	0.52
2:N:723:ILE:HD12	2:N:844:LEU:HD21	1.92	0.52
2:N:727:ILE:HD11	2:N:840:PRO:HB2	1.91	0.52
2:N:741:PHE:CD1	2:N:782:PHE:HA	2.44	0.52
2:N:762:HIS:O	2:N:764:ARG:NH1	2.43	0.52
2:O:117:ARG:HD2	2:O:118:HIS:H	1.73	0.52
2:O:566:LYS:O	2:O:566:LYS:HG3	2.09	0.52
2:O:800:GLU:OE1	2:O:803:GLY:N	2.27	0.52
2:P:265:GLN:HA	2:P:268:ASN:OD1	2.10	0.52
2:P:297:TYR:CE1	2:P:301:LEU:HD21	2.44	0.52
2:P:800:GLU:N	2:P:800:GLU:OE1	2.43	0.52
2:P:841:LEU:O	2:P:845:LEU:HG	2.07	0.52
2:Q:107:LEU:HB3	2:Q:217:LEU:O	2.10	0.52
2:Q:128:ARG:O	2:Q:132:MET:HE1	2.10	0.52
2:Q:358:LEU:HD23	2:Q:364:ALA:HB2	1.91	0.52
2:R:136:LYS:NZ	2:R:210:ILE:HB	2.24	0.52
2:R:763:GLY:HA3	2:R:859:GLY:O	2.08	0.52
2:S:35:LYS:HA	2:S:38:ARG:CD	2.39	0.52
2:S:359:ARG:HE	2:S:793:TYR:HA	1.74	0.52
2:S:511:PHE:HA	2:S:515:VAL:CG2	2.39	0.52
2:S:632:ILE:HD12	2:S:635:CYS:SG	2.49	0.52
1:B:323:MET:HA	1:B:326:LEU:HD12	1.91	0.52
1:B:724:ILE:O	1:B:728:MET:HG3	2.10	0.52
1:E:364:ASN:OD1	1:E:367:GLN:NE2	2.43	0.52
1:E:391:HIS:O	1:E:403:ASN:ND2	2.42	0.52
1:F:214:ILE:HG23	1:F:291:LEU:HB3	1.91	0.52
1:H:485:ARG:HB3	1:H:489:LYS:NZ	2.24	0.52
1:K:18:VAL:HG23	1:K:290:ARG:NH2	2.24	0.52
1:K:540:ILE:HG23	1:K:540:ILE:O	2.08	0.52
1:L:112:ALA:O	1:L:116:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:204:PHE:HA	1:L:207:ARG:NH1	2.24	0.52
1:L:285:PRO:O	1:L:289:GLU:OE1	2.28	0.52
2:M:191:ILE:HD11	2:S:109:THR:O	2.09	0.52
2:M:198:GLU:HA	2:M:201:GLU:HG3	1.90	0.52
2:M:381:GLN:HE22	2:N:305:GLN:CD	2.13	0.52
2:M:720:VAL:HG13	2:M:844:LEU:HD13	1.90	0.52
2:M:756:LEU:HD13	2:M:925:ALA:CB	2.39	0.52
2:M:758:ARG:HB2	2:M:927:TYR:O	2.10	0.52
2:M:872:THR:HG22	2:M:892:TRP:NE1	2.25	0.52
2:N:256:LEU:HD12	2:N:257:TYR:N	2.24	0.52
2:N:719:ASN:OD1	2:N:723:ILE:HD11	2.09	0.52
2:N:762:HIS:HA	2:N:918:ASN:ND2	2.18	0.52
2:O:159:GLN:OE1	2:O:162:ARG:NE	2.43	0.52
2:O:358:LEU:O	2:O:358:LEU:HG	2.09	0.52
2:O:657:VAL:CG1	2:O:658:PRO:HD2	2.38	0.52
2:P:116:PRO:HB3	2:Q:166:LEU:HB3	1.92	0.52
2:P:431:ARG:HD3	2:Q:262:ARG:NH1	2.25	0.52
2:Q:354:GLU:HG3	2:Q:413:VAL:HG11	1.91	0.52
2:Q:472:SER:OG	2:Q:475:LEU:HG	2.10	0.52
2:Q:524:ASP:HB2	2:Q:527:LYS:HB2	1.92	0.52
2:Q:848:CYS:CB	2:Q:851:LEU:HD12	2.39	0.52
2:R:111:ASP:CG	2:R:114:LYS:HB2	2.30	0.52
2:R:122:LEU:CD2	2:R:236:SER:HB3	2.40	0.52
2:R:553:ARG:O	2:R:557:VAL:HG23	2.09	0.52
2:R:825:GLY:O	2:R:829:LYS:HD3	2.10	0.52
2:S:35:LYS:HE2	2:S:38:ARG:HH22	1.75	0.52
2:S:83:THR:CA	2:S:86:ILE:HG12	2.39	0.52
2:S:467:ARG:HG2	2:S:468:PRO:CD	2.40	0.52
2:S:769:SER:HB2	2:S:773:LYS:HZ1	1.72	0.52
1:A:99:GLN:OE1	1:A:763:HIS:ND1	2.43	0.52
1:B:696:MET:CE	1:B:741:MET:HA	2.39	0.52
1:D:651:ARG:HB3	1:D:652:PRO:HD3	1.91	0.52
1:F:724:ILE:HG23	1:F:725:PHE:CD2	2.44	0.52
1:G:656:TYR:O	1:G:660:LEU:HG	2.09	0.52
1:H:150:GLU:OE2	1:H:151:THR:N	2.43	0.52
1:I:756:ASP:O	1:I:760:GLU:OE1	2.27	0.52
1:J:469:ALA:O	1:J:470:ALA:HB3	2.08	0.52
1:K:743:ILE:H	1:K:743:ILE:HD12	1.74	0.52
1:L:175:CYS:HG	1:L:204:PHE:HZ	1.57	0.52
2:M:255:ARG:O	2:M:259:GLN:OE1	2.27	0.52
2:M:414:PRO:O	2:M:417:LEU:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:448:LYS:NZ	2:M:452:THR:OG1	2.42	0.52
2:N:438:GLN:HA	2:N:441:PHE:CZ	2.45	0.52
2:N:576:LEU:HD23	2:N:618:ASP:OD2	2.08	0.52
2:N:740:ARG:HE	2:N:809:ASN:ND2	2.08	0.52
2:O:301:LEU:HD12	2:O:302:PHE:CD2	2.44	0.52
2:O:329:LYS:HD2	2:O:343:ASP:HA	1.91	0.52
2:O:611:VAL:HB	2:O:617:MET:H	1.73	0.52
2:O:780:LEU:HD13	2:O:814:VAL:CG2	2.39	0.52
2:P:136:LYS:HG3	2:P:211:LEU:CD1	2.39	0.52
2:P:635:CYS:O	2:P:636:ARG:HB3	2.09	0.52
2:Q:255:ARG:O	2:Q:259:GLN:OE1	2.28	0.52
2:Q:390:LYS:HZ2	2:Q:413:VAL:HA	1.74	0.52
2:R:71:VAL:HG13	2:R:248:VAL:HG12	1.90	0.52
2:R:348:ILE:O	2:R:352:VAL:HG22	2.09	0.52
2:R:772:ALA:N	2:R:917:LEU:HG	2.25	0.52
2:S:588:TYR:CE1	2:S:761:GLU:HB3	2.45	0.52
1:A:150:GLU:HB3	1:A:353:LEU:HD12	1.92	0.52
1:C:564:TRP:NE1	1:C:600:ILE:HD12	2.25	0.52
1:D:70:VAL:HG13	1:D:71:ALA:N	2.25	0.52
1:E:265:SER:O	1:E:268:SER:N	2.42	0.52
1:G:389:TRP:O	1:G:391:HIS:N	2.42	0.52
1:J:323:MET:HG3	1:J:327:ARG:NH1	2.25	0.52
1:L:147:CYS:O	1:L:351:ARG:NH1	2.42	0.52
2:M:196:LEU:HA	2:M:199:ILE:HD13	1.90	0.52
2:M:498:LEU:O	2:M:502:LEU:HD23	2.09	0.52
2:M:779:VAL:O	2:M:782:PHE:HB3	2.09	0.52
2:N:41:LEU:HD23	2:N:45:ILE:HD13	1.90	0.52
2:N:855:ILE:HD12	2:N:886:LEU:HD22	1.90	0.52
2:O:81:GLY:O	2:O:84:THR:HB	2.08	0.52
2:O:613:SER:HB2	2:O:657:VAL:CG2	2.39	0.52
2:O:801:TYR:O	2:O:824:ILE:HG12	2.10	0.52
2:P:149:GLN:HG2	2:P:150:LYS:N	2.24	0.52
2:Q:82:LYS:HD3	2:Q:252:GLY:HA2	1.92	0.52
2:Q:109:THR:HA	2:Q:219:THR:O	2.10	0.52
2:Q:111:ASP:HA	2:Q:221:ASP:CB	2.38	0.52
2:Q:152:GLN:HA	2:Q:155:ASN:ND2	2.23	0.52
2:Q:304:VAL:HA	2:Q:307:ARG:NH1	2.25	0.52
2:Q:418:ARG:O	2:Q:481:TYR:HE2	1.93	0.52
2:Q:490:CYS:SG	2:Q:497:PHE:HD1	2.33	0.52
2:Q:546:SER:HB2	2:Q:631:ASP:OD1	2.10	0.52
2:Q:894:TYR:HB3	2:Q:910:PHE:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:431:ARG:HG3	2:S:291:GLU:HG2	1.92	0.52
2:R:593:ILE:HG13	2:R:601:LYS:NZ	2.24	0.52
2:S:353:ARG:HD3	2:S:359:ARG:C	2.30	0.52
2:S:776:ARG:NH2	2:S:861:ILE:HG12	2.24	0.52
1:A:362:ASP:HB3	1:A:365:LYS:HG2	1.91	0.52
1:A:366:MET:HE3	1:A:448:ILE:HG21	1.91	0.52
1:D:28:ARG:NE	1:D:29:VAL:HG23	2.25	0.52
1:F:797:ASP:OD1	1:F:798:VAL:N	2.43	0.52
1:H:745:LEU:HG	1:H:786:VAL:HG12	1.91	0.52
1:I:148:LEU:HD12	1:I:350:VAL:HG23	1.91	0.52
1:J:96:SER:O	1:J:100:THR:HG23	2.08	0.52
1:K:219:CYS:HA	1:K:272:TRP:NE1	2.25	0.52
1:K:510:ILE:HG23	1:K:692:VAL:HG21	1.92	0.52
1:L:185:SER:HB3	1:L:188:MET:HE2	1.91	0.52
2:M:41:LEU:HA	2:M:44:SER:OG	2.10	0.52
2:M:428:ASN:CG	2:M:477:ASN:HD21	2.13	0.52
2:M:451:PHE:HB2	2:M:541:VAL:HG21	1.92	0.52
2:M:776:ARG:O	2:M:780:LEU:HG	2.09	0.52
2:N:76:GLY:CA	2:N:82:LYS:HE2	2.39	0.52
2:N:259:GLN:CA	2:N:262:ARG:HG2	2.36	0.52
2:N:367:TYR:C	2:N:371:LEU:HD13	2.29	0.52
2:N:502:LEU:HD11	2:N:626:ILE:HG21	1.91	0.52
2:N:524:ASP:HB3	2:N:527:LYS:CG	2.40	0.52
2:N:645:ALA:HA	2:N:648:LYS:CE	2.36	0.52
2:N:771:ALA:CB	2:N:917:LEU:HD11	2.39	0.52
2:O:157:LEU:HA	2:O:160:LEU:CD2	2.40	0.52
2:O:273:LEU:HD12	2:O:277:GLU:CD	2.28	0.52
2:O:293:LEU:CA	2:O:296:GLN:HG3	2.40	0.52
2:O:553:ARG:HH12	2:O:656:ILE:HG12	1.75	0.52
2:P:423:GLY:HA3	2:Q:304:VAL:CG1	2.40	0.52
2:P:757:TYR:CD1	2:P:929:LYS:HD2	2.44	0.52
2:Q:87:ASN:C	2:Q:91:LYS:HZ3	2.13	0.52
2:Q:104:ILE:HD12	2:Q:215:ALA:O	2.08	0.52
2:Q:333:GLU:CB	2:Q:336:MET:HG2	2.36	0.52
2:Q:423:GLY:CA	2:R:307:ARG:HH22	2.19	0.52
2:Q:453:TYR:CE1	2:Q:475:LEU:HD22	2.45	0.52
2:Q:473:GLU:HG3	2:Q:476:ARG:NH1	2.24	0.52
2:Q:608:LEU:HD12	2:Q:652:GLN:HE22	1.74	0.52
2:R:129:LEU:HD23	2:R:132:MET:HE3	1.92	0.52
2:R:363:ASP:HA	2:R:366:MET:CG	2.40	0.52
2:R:467:ARG:NE	2:R:468:PRO:HD2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:581:ARG:HH22	2:S:755:ARG:NH2	2.06	0.52
2:R:706:PHE:O	2:R:710:ILE:HG12	2.10	0.52
2:R:817:PHE:CD2	2:R:821:ILE:HD11	2.43	0.52
2:S:120:PRO:HB3	2:S:167:LEU:CD1	2.38	0.52
2:S:244:ARG:HH11	2:S:245:LYS:HD3	1.74	0.52
2:S:254:LEU:HD23	2:S:257:TYR:HD2	1.74	0.52
2:S:256:LEU:O	2:S:260:LEU:HD23	2.10	0.52
2:S:333:GLU:HB3	2:S:334:PRO:CD	2.40	0.52
2:S:549:HIS:O	2:S:553:ARG:HD3	2.09	0.52
2:S:657:VAL:HG11	2:S:661:SER:OG	2.10	0.52
2:S:658:PRO:HB2	2:S:660:TRP:CE3	2.44	0.52
1:A:34:PHE:O	1:A:37:GLN:NE2	2.43	0.52
1:A:612:LEU:HD11	1:A:643:LEU:CD2	2.39	0.52
1:A:674:GLU:OE2	1:L:55:TYR:CE1	2.63	0.52
1:B:606:VAL:HG21	1:B:655:LEU:HD23	1.92	0.52
1:C:696:MET:CE	1:C:703:ILE:HD11	2.39	0.52
1:D:641:ARG:O	1:D:641:ARG:NH1	2.43	0.52
1:E:274:THR:O	1:E:277:LEU:N	2.43	0.52
1:G:129:ARG:NH2	1:G:340:HIS:HA	2.24	0.52
1:H:214:ILE:HG22	1:H:218:LEU:HD12	1.92	0.52
1:I:45:PRO:O	1:I:47:HIS:ND1	2.43	0.52
1:I:716:TYR:CZ	1:I:722:HIS:HA	2.45	0.52
1:K:124:GLN:HG2	1:K:124:GLN:O	2.10	0.52
1:K:527:ARG:HD2	1:K:704:GLU:OE1	2.10	0.52
1:L:63:ARG:NH1	1:L:78:GLU:OE2	2.43	0.52
1:L:429:ASN:OD1	1:L:430:GLY:N	2.41	0.52
2:M:132:MET:HG3	2:M:136:LYS:NZ	2.25	0.52
2:M:304:VAL:CG2	2:S:381:GLN:HE22	2.21	0.52
2:M:814:VAL:HG22	2:M:814:VAL:O	2.09	0.52
2:N:580:SER:HB2	2:N:590:LYS:HB3	1.91	0.52
2:N:858:ILE:HD12	2:N:915:THR:CB	2.40	0.52
2:O:41:LEU:HD21	2:O:45:ILE:HD11	1.92	0.52
2:O:137:LEU:HD11	2:O:210:ILE:CD1	2.38	0.52
2:O:544:ILE:HD11	2:O:550:TRP:CB	2.33	0.52
2:O:727:ILE:C	2:O:728:ARG:HD3	2.30	0.52
2:O:807:ARG:NE	2:O:807:ARG:HA	2.24	0.52
2:P:41:LEU:HD22	2:P:89:VAL:CG1	2.39	0.52
2:P:72:PHE:CD1	2:P:306:LYS:HB3	2.45	0.52
2:P:148:LYS:HA	2:P:151:GLU:OE1	2.10	0.52
2:P:453:TYR:OH	2:P:475:LEU:HD23	2.09	0.52
2:Q:114:LYS:HE2	2:R:239:LYS:CA	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:198:GLU:OE2	2:Q:199:ILE:HG13	2.10	0.52
2:Q:928:ASP:OD1	2:Q:929:LYS:N	2.40	0.52
2:R:128:ARG:HH21	2:S:191:ILE:HD11	1.74	0.52
2:R:257:TYR:O	2:R:260:LEU:HG	2.10	0.52
2:R:261:ILE:HG13	2:R:294:GLU:HG2	1.91	0.52
2:R:415:ASN:HA	2:R:418:ARG:CD	2.40	0.52
2:R:642:ILE:HD13	2:R:714:GLU:CB	2.28	0.52
2:R:857:PRO:HG2	2:R:860:GLY:HA3	1.92	0.52
2:S:74:VAL:HG13	2:S:74:VAL:O	2.10	0.52
2:S:574:VAL:HG12	2:S:576:LEU:CD2	2.39	0.52
2:S:834:THR:O	2:S:838:THR:HG22	2.10	0.52
1:B:741:MET:HB3	1:B:743:ILE:HD11	1.92	0.52
1:D:19:SER:HB3	1:D:22:GLU:OE2	2.10	0.52
1:F:723:HIS:CD2	1:F:727:TRP:CH2	2.98	0.52
1:G:599:SER:O	1:G:602:THR:HG22	2.09	0.52
1:H:206:ASP:O	1:H:210:ILE:HD12	2.09	0.52
1:L:149:HIS:NE2	1:L:351:ARG:NH1	2.58	0.52
1:L:214:ILE:HD12	1:L:291:LEU:HD22	1.91	0.52
1:L:385:MET:SD	1:L:386:SER:N	2.83	0.52
1:L:567:LEU:HD21	1:L:688:LEU:CD2	2.39	0.52
2:M:111:ASP:HB2	2:M:221:ASP:OD2	2.10	0.52
2:M:366:MET:HE3	2:M:467:ARG:HE	1.75	0.52
2:M:493:SER:CB	2:M:496:LYS:HD2	2.40	0.52
2:M:806:LEU:CD2	2:M:808:LEU:HD11	2.39	0.52
2:N:173:LYS:HB3	2:N:176:TYR:CD2	2.44	0.52
2:N:608:LEU:HD22	2:N:652:GLN:OE1	2.09	0.52
2:N:609:SER:HG	2:N:624:ASN:ND2	2.06	0.52
2:N:826:GLU:OE2	2:N:827:LYS:HD2	2.10	0.52
2:O:540:SER:OG	2:O:544:ILE:HD12	2.10	0.52
2:O:592:ASN:ND2	2:O:595:THR:HG23	2.25	0.52
2:P:210:ILE:HG13	2:P:211:LEU:HD22	1.91	0.52
2:P:243:SER:HB3	2:P:246:LEU:HD23	1.91	0.52
2:P:313:MET:HA	2:P:316:LEU:HD21	1.91	0.52
2:P:444:ASP:O	2:P:542:GLY:HA2	2.10	0.52
2:P:495:SER:HB2	2:P:634:ALA:CB	2.40	0.52
2:P:553:ARG:O	2:P:557:VAL:HG23	2.09	0.52
2:P:774:ILE:HG22	2:P:775:MET:HE2	1.92	0.52
2:Q:105:LYS:HG2	2:Q:213:CYS:SG	2.50	0.52
2:Q:374:GLN:HB3	2:Q:378:LEU:HD22	1.91	0.52
2:Q:716:TRP:CE2	2:Q:848:CYS:HA	2.44	0.52
2:Q:749:ALA:O	2:Q:753:LYS:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:794:HIS:CG	2:Q:796:VAL:HG22	2.45	0.52
2:R:390:LYS:NZ	2:R:416:LEU:HB3	2.25	0.52
2:R:784:HIS:O	2:R:788:VAL:HG23	2.10	0.52
2:R:888:SER:OG	2:R:890:GLU:HG3	2.10	0.52
2:S:197:SER:O	2:S:200:PHE:HB3	2.10	0.52
2:S:370:GLU:O	2:S:374:GLN:NE2	2.41	0.52
2:S:389:LYS:HE3	2:S:419:ASN:HB2	1.91	0.52
1:E:778:ASP:HA	1:E:781:ARG:NH1	2.25	0.52
1:F:469:ALA:O	1:F:470:ALA:HB3	2.10	0.52
1:F:702:ALA:HB2	1:F:793:TYR:CD2	2.45	0.52
1:G:606:VAL:HG22	1:G:652:PRO:HA	1.92	0.52
1:G:752:ILE:CG2	1:G:755:ALA:HB2	2.40	0.52
1:I:644:VAL:HG12	1:I:653:LEU:CD1	2.40	0.52
1:K:69:PRO:CD	1:K:293:TRP:CD1	2.93	0.52
1:K:148:LEU:HB2	1:K:350:VAL:HG22	1.91	0.52
2:M:105:LYS:HG2	2:M:213:CYS:SG	2.50	0.52
2:M:127:ALA:O	2:M:131:LYS:HD3	2.10	0.52
2:M:336:MET:CE	2:M:342:ILE:HG13	2.40	0.52
2:M:353:ARG:CZ	2:M:360:GLU:HG3	2.39	0.52
2:M:763:GLY:HA3	2:M:773:LYS:NZ	2.25	0.52
2:M:844:LEU:O	2:M:847:SER:HB2	2.10	0.52
2:M:852:HIS:HB3	2:M:886:LEU:HD11	1.91	0.52
2:N:329:LYS:HD3	2:N:343:ASP:N	2.25	0.52
2:N:495:SER:CB	2:N:634:ALA:HB3	2.40	0.52
2:N:894:TYR:CD2	2:N:910:PHE:HE2	2.28	0.52
2:O:159:GLN:HA	2:O:162:ARG:NE	2.25	0.52
2:O:173:LYS:HD2	2:O:176:TYR:H	1.75	0.52
2:O:524:ASP:HB3	2:O:527:LYS:HB3	1.92	0.52
2:O:564:ASP:O	2:O:565:GLU:HB2	2.10	0.52
2:O:628:ALA:CB	2:O:649:VAL:HG21	2.40	0.52
2:P:110:ILE:N	2:P:128:ARG:HH12	2.07	0.52
2:P:127:ALA:O	2:P:131:LYS:HD3	2.10	0.52
2:P:428:ASN:H	2:Q:295:GLN:HE22	1.58	0.52
2:P:539:MET:HE1	2:P:553:ARG:HB3	1.92	0.52
2:P:757:TYR:CE1	2:P:929:LYS:HD2	2.44	0.52
2:P:854:PHE:CD2	2:P:914:ILE:HD11	2.45	0.52
2:Q:443:MET:HE1	2:Q:496:LYS:CB	2.39	0.52
2:Q:711:THR:O	2:Q:715:GLN:HG3	2.08	0.52
2:Q:856:PHE:CE2	2:Q:878:ILE:HD11	2.45	0.52
2:R:269:TYR:OH	2:R:286:ARG:HB3	2.10	0.52
2:R:318:GLY:HA2	2:R:323:ALA:CB	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:495:SER:CB	2:R:634:ALA:HB3	2.40	0.52
2:R:552:ASN:OD1	2:R:553:ARG:HG2	2.09	0.52
2:R:639:ARG:CD	2:R:714:GLU:HG2	2.37	0.52
2:R:749:ALA:O	2:R:753:LYS:HG2	2.10	0.52
2:S:206:ARG:HD2	2:S:209:GLU:OE1	2.09	0.52
2:S:231:TRP:NE1	2:S:264:LYS:HD2	2.25	0.52
2:S:231:TRP:NE1	2:S:235:GLU:OE2	2.42	0.52
2:S:444:ASP:HB2	2:S:542:GLY:O	2.10	0.52
2:S:709:ALA:O	2:S:713:VAL:HG23	2.10	0.52
1:A:568:ARG:NH1	1:A:577:ALA:HB1	2.25	0.51
1:D:28:ARG:HD3	1:D:29:VAL:H	1.74	0.51
1:D:542:LYS:HD3	1:D:677:LEU:HD11	1.92	0.51
1:E:196:ASP:HB2	1:E:199:LEU:HD13	1.92	0.51
1:E:686:VAL:HG11	1:E:735:ILE:HG21	1.91	0.51
1:F:34:PHE:O	1:F:37:GLN:NE2	2.42	0.51
1:G:720:SER:HB3	1:G:771:LYS:CD	2.39	0.51
1:H:25:LEU:HD23	1:H:290:ARG:HH22	1.74	0.51
1:H:402:ASP:OD1	1:H:458:ARG:NH1	2.42	0.51
1:I:181:LYS:O	1:I:181:LYS:HG3	2.10	0.51
1:I:659:TRP:HD1	1:I:660:LEU:HD12	1.74	0.51
1:I:689:GLN:C	1:I:693:MET:HE1	2.30	0.51
1:K:643:LEU:O	1:K:646:THR:HB	2.10	0.51
1:L:45:PRO:O	1:L:47:HIS:ND1	2.41	0.51
1:L:587:LEU:O	1:L:591:VAL:HG23	2.11	0.51
2:M:105:LYS:CG	2:M:213:CYS:HB3	2.35	0.51
2:M:177:PHE:O	2:M:181:LEU:HG	2.09	0.51
2:M:570:PHE:HE1	2:M:575:GLN:HB2	1.74	0.51
2:M:577:ASN:ND2	2:M:921:THR:HG22	2.25	0.51
2:N:110:ILE:HD11	2:N:115:LEU:HD21	1.91	0.51
2:N:353:ARG:NH2	2:N:360:GLU:HG3	2.24	0.51
2:N:482:LEU:HA	2:N:485:GLN:OE1	2.10	0.51
2:N:728:ARG:NH2	2:N:796:VAL:HG12	2.23	0.51
2:N:828:LEU:HD21	2:N:833:LYS:HZ2	1.74	0.51
2:O:173:LYS:HB3	2:O:176:TYR:CD2	2.45	0.51
2:O:575:GLN:HG2	2:O:923:VAL:HG12	1.89	0.51
2:O:782:PHE:CE2	2:O:845:LEU:HD13	2.46	0.51
2:P:83:THR:O	2:P:86:ILE:HG12	2.10	0.51
2:P:120:PRO:CB	2:P:122:LEU:HG	2.24	0.51
2:P:569:VAL:HA	2:P:574:VAL:HA	1.92	0.51
2:Q:569:VAL:HG21	2:Q:774:ILE:HD13	1.92	0.51
2:Q:877:LEU:O	2:Q:881:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:88:SER:N	2:R:91:LYS:HZ2	2.08	0.51
2:R:214:LYS:O	2:R:245:LYS:HG3	2.09	0.51
2:R:356:LEU:CB	2:R:358:LEU:HB2	2.39	0.51
2:R:535:TYR:O	2:R:539:MET:SD	2.68	0.51
2:R:605:ALA:O	2:R:608:LEU:HB2	2.10	0.51
2:R:607:SER:CB	2:R:625:LEU:HG	2.40	0.51
2:R:858:ILE:O	2:R:918:ASN:HB2	2.09	0.51
2:S:572:GLY:O	2:S:622:VAL:HG12	2.09	0.51
2:S:727:ILE:HG13	2:S:841:LEU:HD11	1.91	0.51
2:S:866:LYS:HA	2:S:866:LYS:HE3	1.92	0.51
1:A:568:ARG:HH12	1:A:577:ALA:HB1	1.75	0.51
1:E:70:VAL:HG13	1:E:71:ALA:N	2.25	0.51
1:E:98:TRP:CD1	1:E:102:MET:HG2	2.45	0.51
1:E:203:ILE:HG22	1:E:207:ARG:CZ	2.40	0.51
1:E:633:TRP:HB3	1:E:637:TYR:CZ	2.46	0.51
1:F:84:GLU:O	1:F:86:GLY:N	2.44	0.51
1:G:84:GLU:O	1:G:86:GLY:N	2.43	0.51
1:G:143:ILE:O	1:G:147:CYS:N	2.40	0.51
1:G:553:LYS:NZ	1:G:672:TYR:O	2.41	0.51
1:G:659:TRP:HA	1:G:665:VAL:HG11	1.91	0.51
1:G:699:ARG:O	1:G:699:ARG:NH1	2.42	0.51
1:G:788:GLU:O	1:G:792:ILE:HG13	2.10	0.51
1:H:97:GLU:O	1:H:101:LEU:HD23	2.09	0.51
1:I:11:LEU:O	1:I:15:LEU:HG	2.10	0.51
1:K:351:ARG:CG	1:K:791:ARG:HH22	2.21	0.51
1:K:514:ASP:HA	1:K:517:LEU:HD12	1.92	0.51
1:K:722:HIS:ND1	1:K:724:ILE:HG22	2.26	0.51
1:L:146:GLU:O	1:L:147:CYS:HB2	2.10	0.51
1:L:173:GLU:OE1	1:L:173:GLU:N	2.40	0.51
2:M:160:LEU:HD12	2:M:196:LEU:CD1	2.39	0.51
2:M:443:MET:HE2	2:M:496:LYS:HB3	1.92	0.51
2:M:510:ILE:HG13	2:M:511:PHE:H	1.74	0.51
2:M:636:ARG:HH11	2:M:638:GLU:CB	2.12	0.51
2:M:744:ASN:O	2:M:748:VAL:HG13	2.10	0.51
2:M:777:PHE:HA	2:M:780:LEU:HD12	1.92	0.51
2:N:69:ARG:HH22	2:N:244:ARG:HH22	1.58	0.51
2:N:231:TRP:NE1	2:N:264:LYS:HG3	2.24	0.51
2:N:332:THR:HG23	2:N:387:TYR:CG	2.45	0.51
2:N:389:LYS:HZ2	2:N:419:ASN:HB2	1.75	0.51
2:N:727:ILE:CG2	2:N:841:LEU:HD11	2.40	0.51
2:N:728:ARG:HE	2:N:796:VAL:HG12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:741:PHE:HA	2:N:744:ASN:ND2	2.24	0.51
2:N:788:VAL:C	2:N:792:LEU:HD13	2.29	0.51
2:O:147:ARG:HD2	2:O:147:ARG:N	2.25	0.51
2:O:314:LEU:HB2	2:O:372:LEU:HB3	1.91	0.51
2:O:625:LEU:HD11	2:O:850:ILE:CG2	2.40	0.51
2:O:628:ALA:HA	2:O:649:VAL:HG21	1.92	0.51
2:O:833:LYS:HE2	2:O:837:ASN:HB2	1.91	0.51
2:P:76:GLY:HA3	2:P:82:LYS:CE	2.40	0.51
2:P:105:LYS:CD	2:P:211:LEU:HB3	2.40	0.51
2:P:538:TYR:CD2	2:P:658:PRO:HB3	2.45	0.51
2:P:707:SER:O	2:P:711:THR:HG23	2.10	0.51
2:P:779:VAL:HG11	2:P:851:LEU:HG	1.91	0.51
2:Q:159:GLN:HG2	2:Q:162:ARG:HH12	1.73	0.51
2:Q:207:ALA:O	2:Q:211:LEU:HD23	2.10	0.51
2:Q:322:LYS:O	2:Q:322:LYS:HD2	2.10	0.51
2:Q:572:GLY:O	2:Q:622:VAL:HG12	2.10	0.51
2:Q:622:VAL:O	2:Q:626:ILE:HG22	2.11	0.51
2:R:231:TRP:CE2	2:R:235:GLU:OE2	2.63	0.51
2:R:577:ASN:O	2:R:590:LYS:HG3	2.11	0.51
2:R:784:HIS:HA	2:R:817:PHE:HE1	1.74	0.51
2:S:282:ARG:NE	2:S:282:ARG:HA	2.26	0.51
2:S:297:TYR:HB3	2:S:301:LEU:HD11	1.93	0.51
2:S:467:ARG:HG2	2:S:468:PRO:HD2	1.92	0.51
2:S:607:SER:HB3	2:S:625:LEU:HB2	1.91	0.51
2:S:733:LEU:O	2:S:737:VAL:HG13	2.11	0.51
1:B:360:LYS:O	1:B:366:MET:HE2	2.10	0.51
1:D:81:ILE:HD12	1:D:89:LYS:O	2.10	0.51
1:F:82:LYS:O	1:F:89:LYS:N	2.40	0.51
1:G:12:LEU:CD1	1:G:294:ILE:HG23	2.40	0.51
1:H:52:ALA:O	1:H:56:LEU:HG	2.10	0.51
1:H:400:VAL:O	1:H:404:LEU:HG	2.10	0.51
1:I:481:CYS:HB3	1:I:485:ARG:NH1	2.24	0.51
1:K:81:ILE:HD13	1:K:132:LEU:CD2	2.40	0.51
1:K:513:ILE:HD13	1:K:534:ILE:HG23	1.90	0.51
1:K:518:ARG:O	1:K:518:ARG:HD2	2.10	0.51
1:K:727:TRP:HD1	1:K:741:MET:SD	2.33	0.51
1:L:156:ASN:OD1	1:L:164:CYS:SG	2.64	0.51
2:M:167:LEU:HD11	2:M:196:LEU:CD2	2.40	0.51
2:M:231:TRP:CH2	2:M:261:ILE:HA	2.45	0.51
2:M:390:LYS:HG3	2:M:416:LEU:HD13	1.92	0.51
2:M:437:GLU:HG3	2:M:440:ARG:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:836:LYS:HG2	2:M:843:PHE:CE2	2.45	0.51
2:N:35:LYS:CG	2:N:38:ARG:HH21	2.24	0.51
2:N:104:ILE:C	2:N:105:LYS:HD3	2.30	0.51
2:N:264:LYS:O	2:N:267:GLU:HB2	2.09	0.51
2:N:279:GLU:HG3	2:N:282:ARG:NH2	2.25	0.51
2:N:287:GLY:O	2:N:290:VAL:HG12	2.10	0.51
2:N:551:ALA:HB1	2:N:624:ASN:HA	1.93	0.51
2:N:760:ALA:O	2:N:768:GLN:HB3	2.10	0.51
2:N:816:GLU:O	2:N:820:LYS:HG3	2.10	0.51
2:O:85:PHE:CE2	2:O:310:LEU:HD21	2.45	0.51
2:O:130:ASN:HA	2:O:153:TRP:HH2	1.74	0.51
2:O:297:TYR:HD1	2:O:300:LYS:HZ1	1.59	0.51
2:O:448:LYS:HZ2	2:O:536:VAL:HG21	1.75	0.51
2:O:854:PHE:HE1	2:O:914:ILE:HD11	1.75	0.51
2:P:413:VAL:HB	2:P:414:PRO:HD3	1.92	0.51
2:P:765:MET:HE3	2:P:767:SER:HB3	1.92	0.51
2:P:843:PHE:O	2:P:846:ILE:HG22	2.11	0.51
2:Q:135:ASP:HA	2:Q:138:LYS:CG	2.37	0.51
2:Q:163:GLY:O	2:Q:196:LEU:HD21	2.11	0.51
2:R:114:LYS:HZ2	2:S:238:ARG:HB3	1.75	0.51
2:R:316:LEU:HD23	2:R:325:LYS:HZ3	1.75	0.51
2:R:348:ILE:HG21	2:R:368:VAL:HG13	1.93	0.51
2:R:721:ASN:HA	2:R:724:GLU:OE2	2.11	0.51
2:R:809:ASN:O	2:R:811:VAL:HG23	2.10	0.51
2:S:370:GLU:OE1	2:S:373:LYS:NZ	2.39	0.51
2:S:737:VAL:HG12	2:S:789:GLU:CB	2.40	0.51
2:S:787:LEU:HB2	2:S:842:PHE:CD1	2.46	0.51
2:S:824:ILE:O	2:S:828:LEU:HD13	2.09	0.51
2:S:874:PHE:O	2:S:878:ILE:HG13	2.10	0.51
1:A:141:ASP:O	1:A:144:THR:OG1	2.25	0.51
1:A:170:LYS:HA	1:A:264:TYR:CE2	2.45	0.51
1:B:522:LEU:O	1:B:523:ARG:NH2	2.43	0.51
1:C:165:TRP:CZ2	1:C:299:GLN:HG2	2.46	0.51
1:C:387:MET:SD	1:C:388:GLU:N	2.83	0.51
1:D:225:VAL:O	1:D:227:LEU:N	2.44	0.51
1:D:426:LYS:HD3	1:D:474:HIS:ND1	2.26	0.51
1:E:520:LEU:O	1:E:522:LEU:N	2.43	0.51
1:F:696:MET:SD	1:F:701:ILE:O	2.69	0.51
1:J:691:ALA:O	1:J:695:LYS:NZ	2.41	0.51
1:L:30:GLU:OE1	1:L:53:TRP:CD1	2.64	0.51
2:N:359:ARG:HG2	2:N:360:GLU:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:843:PHE:O	2:N:846:ILE:HG12	2.10	0.51
2:O:298:LEU:HD12	2:O:299:LEU:N	2.25	0.51
2:O:588:TYR:HE2	2:O:758:ARG:O	1.93	0.51
2:O:600:ALA:HB2	2:O:912:ASN:C	2.29	0.51
2:O:799:ARG:HD2	2:O:800:GLU:N	2.25	0.51
2:Q:87:ASN:CG	2:Q:91:LYS:HZ3	2.12	0.51
2:Q:206:ARG:NH2	2:Q:210:ILE:HD11	2.26	0.51
2:Q:452:THR:HA	2:Q:455:LYS:HZ3	1.75	0.51
2:Q:555:CYS:O	2:Q:558:VAL:HG12	2.10	0.51
2:R:110:ILE:HB	2:R:220:PHE:HA	1.93	0.51
2:R:381:GLN:CG	2:S:304:VAL:HG22	2.41	0.51
2:R:588:TYR:C	2:R:589:LYS:HD2	2.31	0.51
2:R:609:SER:O	2:R:618:ASP:HA	2.10	0.51
2:R:723:ILE:O	2:R:723:ILE:HG13	2.10	0.51
2:S:887:LEU:HD21	2:S:913:THR:OG1	2.11	0.51
1:A:579:ASP:O	1:A:582:ILE:HG22	2.10	0.51
1:B:82:LYS:O	1:B:88:PRO:HA	2.09	0.51
1:F:497:TYR:HD1	1:F:499:VAL:HG13	1.76	0.51
1:H:71:ALA:O	1:H:75:LEU:HD23	2.11	0.51
1:I:469:ALA:O	1:I:470:ALA:HB3	2.09	0.51
1:I:778:ASP:CG	1:I:782:LYS:NZ	2.64	0.51
1:J:598:VAL:O	1:J:598:VAL:HG13	2.10	0.51
1:K:55:TYR:O	1:K:59:GLN:OE1	2.29	0.51
1:K:416:LEU:HD21	1:K:418:LEU:HD21	1.92	0.51
1:K:634:LEU:O	1:K:638:GLU:OE1	2.29	0.51
1:L:214:ILE:CD1	1:L:240:LEU:HD13	2.39	0.51
2:M:261:ILE:HG21	2:M:294:GLU:HA	1.92	0.51
2:M:279:GLU:CG	2:M:282:ARG:HG2	2.41	0.51
2:M:296:GLN:HG3	2:M:297:TYR:CD2	2.46	0.51
2:M:482:LEU:O	2:M:486:VAL:HG13	2.10	0.51
2:M:562:PRO:HG2	2:M:570:PHE:CE2	2.46	0.51
2:M:636:ARG:NH1	2:M:638:GLU:HB2	2.13	0.51
2:N:255:ARG:HD3	2:O:289:MET:SD	2.50	0.51
2:N:309:GLN:O	2:N:310:LEU:HB3	2.10	0.51
2:N:429:ILE:HG13	2:N:430:TYR:N	2.25	0.51
2:N:509:SER:CB	2:N:738:TRP:HE1	2.24	0.51
2:N:725:ILE:HG13	2:N:726:GLY:N	2.25	0.51
2:N:733:LEU:O	2:N:737:VAL:HG13	2.11	0.51
2:O:120:PRO:CG	2:O:123:VAL:HG23	2.40	0.51
2:O:555:CYS:O	2:O:558:VAL:HG12	2.11	0.51
2:O:575:GLN:CG	2:O:617:MET:HG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:755:ARG:HH12	2:O:812:THR:CB	2.23	0.51
2:O:814:VAL:CG1	2:O:817:PHE:HB3	2.40	0.51
2:P:198:GLU:CA	2:P:201:GLU:HG3	2.41	0.51
2:P:304:VAL:HA	2:P:307:ARG:HG2	1.91	0.51
2:P:353:ARG:NH2	2:P:360:GLU:HG3	2.25	0.51
2:Q:156:HIS:HB3	2:Q:203:LEU:HD23	1.92	0.51
2:Q:744:ASN:HB2	2:Q:809:ASN:ND2	2.25	0.51
2:Q:805:GLY:H	2:Q:807:ARG:NH1	2.07	0.51
2:R:131:LYS:HD3	2:S:192:GLY:CA	2.40	0.51
2:R:237:ILE:HA	2:R:241:PHE:HD2	1.76	0.51
2:R:428:ASN:ND2	2:R:474:ALA:HA	2.25	0.51
2:R:597:ASN:C	2:R:911:GLN:HE22	2.13	0.51
2:R:754:THR:O	2:R:757:TYR:OH	2.24	0.51
2:S:261:ILE:HA	2:S:264:LYS:CE	2.39	0.51
2:S:359:ARG:NE	2:S:793:TYR:HA	2.25	0.51
2:S:495:SER:O	2:S:499:GLN:HG3	2.10	0.51
2:S:525:ARG:O	2:S:528:PHE:HB3	2.09	0.51
2:S:566:LYS:NZ	2:S:924:GLY:HA2	2.25	0.51
2:S:838:THR:HG23	2:S:839:HIS:ND1	2.26	0.51
2:S:858:ILE:HD12	2:S:915:THR:CB	2.40	0.51
1:A:69:PRO:HB3	1:A:292:LEU:HD22	1.91	0.51
1:A:167:ASP:OD2	1:A:327:ARG:NH1	2.44	0.51
1:A:531:CYS:SG	1:A:703:ILE:HD12	2.50	0.51
1:B:783:VAL:O	1:B:786:VAL:HG12	2.10	0.51
1:C:659:TRP:HA	1:C:665:VAL:HG11	1.93	0.51
1:D:540:ILE:O	1:D:540:ILE:HG23	2.09	0.51
1:F:401:LEU:HD11	1:F:459:LEU:HD23	1.92	0.51
1:H:564:TRP:CZ2	1:H:600:ILE:HD12	2.45	0.51
1:J:375:ARG:NH2	1:J:394:PRO:O	2.43	0.51
2:M:596:GLU:N	2:M:596:GLU:OE1	2.44	0.51
2:M:856:PHE:HE2	2:M:878:ILE:HD11	1.76	0.51
2:N:297:TYR:HA	2:N:300:LYS:HZ3	1.71	0.51
2:N:303:PRO:HG2	2:N:306:LYS:CE	2.40	0.51
2:N:530:GLN:O	2:N:534:GLU:OE1	2.29	0.51
2:N:553:ARG:CZ	2:N:655:CYS:HB2	2.41	0.51
2:N:720:VAL:HG22	2:N:844:LEU:HD22	1.92	0.51
2:N:799:ARG:HD2	2:N:800:GLU:O	2.11	0.51
2:O:153:TRP:O	2:O:157:LEU:HD13	2.11	0.51
2:O:313:MET:O	2:O:316:LEU:N	2.40	0.51
2:O:319:GLU:OE1	2:O:323:ALA:HB2	2.11	0.51
2:O:439:HIS:CD2	2:O:440:ARG:HG2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:613:SER:HB2	2:O:657:VAL:HG21	1.93	0.51
2:O:723:ILE:CG2	2:O:836:LYS:HE3	2.35	0.51
2:P:152:GLN:O	2:P:155:ASN:HB2	2.11	0.51
2:P:358:LEU:HD22	2:P:732:LEU:HD23	1.92	0.51
2:Q:151:GLU:O	2:Q:154:GLN:HG3	2.10	0.51
2:Q:784:HIS:O	2:Q:788:VAL:HG23	2.10	0.51
2:R:72:PHE:CD2	2:R:306:LYS:HB2	2.45	0.51
2:R:163:GLY:O	2:R:196:LEU:HD11	2.11	0.51
2:R:858:ILE:HD12	2:R:915:THR:CA	2.41	0.51
2:S:135:ASP:HB3	2:S:138:LYS:HZ3	1.76	0.51
2:S:311:LYS:NZ	2:S:315:GLN:HB3	2.25	0.51
2:S:511:PHE:HA	2:S:515:VAL:HG23	1.93	0.51
2:S:596:GLU:OE2	2:S:596:GLU:HA	2.09	0.51
1:A:34:PHE:HB2	1:L:190:GLN:NE2	2.26	0.51
1:B:31:SER:O	1:B:35:LEU:HD13	2.10	0.51
1:B:590:LYS:HB3	1:B:668:GLN:HE22	1.74	0.51
1:E:565:ARG:HA	1:E:568:ARG:NH1	2.26	0.51
1:F:770:ARG:HD2	1:F:771:LYS:N	2.25	0.51
1:H:449:LEU:O	1:H:453:LEU:HD23	2.11	0.51
1:I:728:MET:HE1	1:I:785:GLU:OE1	2.10	0.51
1:J:81:ILE:CD1	1:J:132:LEU:HD21	2.35	0.51
1:J:552:THR:HG22	1:J:672:TYR:HE1	1.76	0.51
1:J:559:ASP:O	1:J:563:ILE:HG13	2.10	0.51
1:J:564:TRP:O	1:J:568:ARG:HD3	2.10	0.51
1:K:81:ILE:HD11	1:K:88:PRO:HB2	1.93	0.51
1:K:173:GLU:OE1	1:K:173:GLU:N	2.36	0.51
2:M:119:GLU:N	2:M:119:GLU:OE1	2.43	0.51
2:M:172:TYR:O	2:S:168:THR:HG21	2.10	0.51
2:M:237:ILE:CA	2:M:241:PHE:CD2	2.88	0.51
2:M:494:LEU:HB3	2:M:724:GLU:OE1	2.11	0.51
2:M:716:TRP:NE1	2:M:844:LEU:O	2.42	0.51
2:N:86:ILE:O	2:N:90:VAL:HG23	2.11	0.51
2:N:362:SER:O	2:N:366:MET:N	2.32	0.51
2:N:430:TYR:HE2	2:O:262:ARG:HH22	1.57	0.51
2:N:497:PHE:O	2:N:501:LEU:HG	2.11	0.51
2:N:611:VAL:HG21	2:N:619:PHE:CD2	2.46	0.51
2:N:644:ASN:C	2:N:648:LYS:HZ3	2.14	0.51
2:N:712:LYS:HE2	2:N:712:LYS:HA	1.92	0.51
2:N:770:ASN:HD21	2:N:772:ALA:HB3	1.74	0.51
2:O:281:VAL:O	2:O:285:GLU:HG3	2.10	0.51
2:O:501:LEU:HD22	2:O:734:ILE:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:596:GLU:OE2	2:O:600:ALA:HB3	2.11	0.51
2:P:121:ILE:H	2:P:121:ILE:HD12	1.74	0.51
2:P:757:TYR:HB3	2:P:930:ASP:CA	2.40	0.51
2:Q:359:ARG:HG3	2:Q:360:GLU:N	2.26	0.51
2:Q:824:ILE:O	2:Q:828:LEU:HD13	2.11	0.51
2:R:133:VAL:HG12	2:R:137:LEU:HD11	1.92	0.51
2:R:196:LEU:HB3	2:R:240:PHE:CZ	2.40	0.51
2:R:466:LEU:O	2:R:479:SER:HB2	2.11	0.51
2:R:566:LYS:HE3	2:R:566:LYS:CA	2.40	0.51
2:R:596:GLU:CG	2:R:604:MET:HE1	2.40	0.51
2:S:152:GLN:HG3	2:S:156:HIS:HE1	1.74	0.51
2:S:562:PRO:HG2	2:S:570:PHE:HE2	1.72	0.51
2:S:732:LEU:HB3	2:S:736:LYS:HZ1	1.75	0.51
1:E:469:ALA:O	1:E:470:ALA:HB3	2.10	0.51
1:G:85:LYS:HZ1	1:J:493:ALA:HB1	1.76	0.51
1:H:351:ARG:O	1:H:415:GLU:OE1	2.29	0.51
1:H:696:MET:HG3	1:H:741:MET:SD	2.51	0.51
1:I:356:ARG:HG2	1:I:419:VAL:CG1	2.40	0.51
1:J:7:ASN:HD21	1:J:105:VAL:HG13	1.74	0.51
1:K:649:MET:HE3	1:K:653:LEU:HD12	1.92	0.51
2:M:197:SER:HA	2:M:240:PHE:CD1	2.46	0.51
2:M:359:ARG:HG2	2:M:360:GLU:H	1.75	0.51
2:M:426:LEU:CA	2:M:429:ILE:HG12	2.35	0.51
2:M:507:SER:HA	2:M:510:ILE:CD1	2.40	0.51
2:M:538:TYR:CZ	2:M:658:PRO:HD3	2.46	0.51
2:M:576:LEU:HB3	2:M:591:PHE:CD2	2.46	0.51
2:M:806:LEU:HG	2:M:808:LEU:HD21	1.92	0.51
2:N:348:ILE:HG22	2:N:368:VAL:HG12	1.93	0.51
2:O:741:PHE:CD1	2:O:782:PHE:HA	2.46	0.51
2:O:768:GLN:CG	2:O:931:THR:HG21	2.41	0.51
2:O:802:ILE:HD11	2:O:807:ARG:HD2	1.92	0.51
2:O:833:LYS:HE2	2:O:838:THR:N	2.26	0.51
2:O:855:ILE:CD1	2:O:878:ILE:HD13	2.41	0.51
2:P:76:GLY:CA	2:P:82:LYS:HE2	2.41	0.51
2:P:259:GLN:O	2:P:262:ARG:HB2	2.11	0.51
2:Q:73:PHE:HD1	2:Q:250:ALA:HB3	1.76	0.51
2:R:71:VAL:O	2:R:306:LYS:HE2	2.11	0.51
2:R:607:SER:HB3	2:R:625:LEU:CD2	2.40	0.51
2:R:861:ILE:CD1	2:R:895:LEU:HD13	2.41	0.51
2:S:353:ARG:HA	2:S:358:LEU:HB2	1.90	0.51
2:S:451:PHE:HA	2:S:454:VAL:HG12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:538:TYR:CZ	2:S:658:PRO:HD3	2.46	0.51
2:S:734:ILE:CA	2:S:737:VAL:HG22	2.38	0.51
2:S:894:TYR:HA	2:S:897:LYS:CE	2.32	0.51
1:A:218:LEU:HA	1:A:221:VAL:HG22	1.92	0.51
1:A:323:MET:HG3	1:A:326:LEU:HD12	1.92	0.51
1:F:236:ASN:O	1:F:239:GLN:OE1	2.28	0.51
1:G:719:VAL:HG11	1:G:763:HIS:CE1	2.46	0.51
1:I:166:LEU:HD11	1:I:269:GLU:OE2	2.10	0.51
1:J:142:TYR:OH	1:J:787:ASN:OD1	2.28	0.51
1:L:34:PHE:O	1:L:37:GLN:HG3	2.11	0.51
1:L:149:HIS:CE1	1:L:791:ARG:HB2	2.45	0.51
1:L:649:MET:SD	1:L:653:LEU:HB2	2.50	0.51
2:M:223:ILE:HD12	2:M:227:PHE:O	2.11	0.51
2:M:320:LYS:HZ1	2:M:365:ASP:CB	2.23	0.51
2:M:344:VAL:HG23	2:M:345:ARG:N	2.25	0.51
2:M:822:LYS:NZ	2:M:823:ILE:HD11	2.26	0.51
2:M:866:LYS:HA	2:M:869:ASN:ND2	2.26	0.51
2:N:333:GLU:OE2	2:N:334:PRO:HD3	2.11	0.51
2:N:366:MET:HA	2:N:369:ASN:OD1	2.11	0.51
2:N:370:GLU:O	2:N:370:GLU:HG3	2.11	0.51
2:N:584:MET:CE	2:N:921:THR:HG21	2.41	0.51
2:N:607:SER:O	2:N:620:CYS:HA	2.11	0.51
2:O:296:GLN:NE2	2:O:297:TYR:HB2	2.26	0.51
2:O:425:MET:HA	2:P:295:GLN:HE22	1.76	0.51
2:O:446:LEU:HD23	2:O:500:MET:CE	2.41	0.51
2:O:591:PHE:HB2	2:O:920:SER:OG	2.10	0.51
2:O:788:VAL:O	2:O:792:LEU:HD13	2.11	0.51
2:P:103:ASN:C	2:P:104:ILE:HD12	2.31	0.51
2:P:201:GLU:O	2:P:205:LYS:HD3	2.11	0.51
2:P:223:ILE:HD11	2:P:256:LEU:CD2	2.40	0.51
2:P:858:ILE:HG12	2:P:895:LEU:CD2	2.41	0.51
2:R:331:LYS:CB	2:R:336:MET:HG2	2.41	0.51
2:R:378:LEU:HD21	2:R:424:SER:HB3	1.93	0.51
2:R:723:ILE:HD13	2:R:836:LYS:CE	2.40	0.51
2:S:251:THR:O	2:S:257:TYR:OH	2.28	0.51
2:S:352:VAL:HG13	2:S:353:ARG:N	2.25	0.51
2:S:352:VAL:O	2:S:356:LEU:HB2	2.10	0.51
2:S:720:VAL:HG23	2:S:844:LEU:HD22	1.91	0.51
1:A:582:ILE:O	1:A:586:ARG:HD3	2.10	0.51
1:C:237:PRO:O	1:C:240:LEU:HD12	2.11	0.51
1:D:186:GLN:O	1:D:190:GLN:OE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:595:GLU:OE1	1:E:595:GLU:N	2.44	0.51
1:F:215:ARG:NH1	1:F:216:GLU:OE2	2.44	0.51
1:H:35:LEU:HD22	1:I:190:GLN:HE22	1.76	0.51
1:K:215:ARG:NE	1:K:269:GLU:OE1	2.44	0.51
1:L:84:GLU:O	1:L:86:GLY:N	2.44	0.51
1:L:561:VAL:HG21	1:L:607:PHE:CE2	2.45	0.51
1:L:722:HIS:HB3	1:L:724:ILE:HG22	1.93	0.51
2:M:279:GLU:OE1	2:M:279:GLU:N	2.41	0.51
2:M:412:SER:HB3	2:M:415:ASN:CG	2.32	0.51
2:M:856:PHE:HE2	2:M:886:LEU:HD23	1.74	0.51
2:O:116:PRO:HB2	2:O:119:GLU:HG3	1.93	0.51
2:O:222:ASP:OD1	2:O:223:ILE:N	2.44	0.51
2:O:311:LYS:NZ	2:O:325:LYS:HE2	2.25	0.51
2:O:593:ILE:HD11	2:O:605:ALA:HB2	1.92	0.51
2:P:370:GLU:HG2	2:P:468:PRO:HB2	1.93	0.51
2:P:379:LEU:CA	2:P:382:VAL:HG22	2.40	0.51
2:P:425:MET:CE	2:P:429:ILE:HB	2.41	0.51
2:P:744:ASN:CG	2:P:781:ALA:HB1	2.32	0.51
2:Q:173:LYS:HB3	2:Q:176:TYR:CD2	2.45	0.51
2:Q:376:VAL:CG2	2:Q:377:ARG:HD3	2.38	0.51
2:Q:450:ILE:O	2:Q:454:VAL:HG22	2.11	0.51
2:Q:467:ARG:O	2:Q:469:GLN:N	2.44	0.51
2:Q:529:GLU:O	2:Q:532:ILE:HG12	2.10	0.51
2:Q:800:GLU:OE2	2:Q:802:ILE:HG22	2.11	0.51
2:R:571:LEU:HD21	2:R:742:TYR:CD1	2.46	0.51
2:R:649:VAL:HG13	2:R:650:ILE:N	2.25	0.51
2:S:108:PRO:O	2:S:128:ARG:NH1	2.44	0.51
2:S:131:LYS:HE2	2:S:132:MET:SD	2.51	0.51
1:A:561:VAL:HG13	1:A:604:ASP:OD1	2.11	0.50
1:A:597:GLU:OE1	1:K:651:ARG:NH1	2.44	0.50
1:C:464:ARG:NE	1:C:464:ARG:HA	2.26	0.50
1:C:540:ILE:HG23	1:C:540:ILE:O	2.11	0.50
1:D:165:TRP:HB2	1:D:303:LEU:HD21	1.94	0.50
1:G:148:LEU:O	1:G:351:ARG:N	2.32	0.50
1:G:401:LEU:HD21	1:G:459:LEU:HD23	1.91	0.50
1:H:280:TRP:HD1	1:H:284:ALA:HA	1.75	0.50
1:I:136:HIS:HB3	1:I:139:VAL:HG23	1.92	0.50
1:I:756:ASP:O	1:I:759:SER:N	2.43	0.50
1:K:143:ILE:HG12	1:K:148:LEU:HD11	1.93	0.50
1:K:468:ALA:HB3	1:K:497:TYR:CD2	2.46	0.50
1:K:680:LEU:HD13	1:K:684:ALA:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:LEU:HD12	1:L:133:TYR:N	2.26	0.50
1:L:155:LEU:HG	1:L:748:ASP:OD1	2.11	0.50
1:L:299:GLN:NE2	1:L:303:LEU:HD11	2.25	0.50
2:M:86:ILE:HG13	2:M:251:THR:HG21	1.91	0.50
2:M:293:LEU:HD23	2:M:296:GLN:NE2	2.25	0.50
2:M:414:PRO:HD2	2:M:491:GLN:HE22	1.75	0.50
2:N:130:ASN:HA	2:N:153:TRP:CH2	2.46	0.50
2:N:153:TRP:CE2	2:N:157:LEU:HD21	2.46	0.50
2:N:231:TRP:CE2	2:N:235:GLU:OE2	2.64	0.50
2:N:286:ARG:NE	2:N:286:ARG:HA	2.25	0.50
2:N:568:GLY:CA	2:N:575:GLN:HB3	2.38	0.50
2:O:336:MET:O	2:O:338:ASP:N	2.37	0.50
2:O:509:SER:HB3	2:O:742:TYR:CD1	2.46	0.50
2:O:571:LEU:HD13	2:O:746:ASN:ND2	2.26	0.50
2:O:834:THR:O	2:O:837:ASN:HB2	2.11	0.50
2:P:82:LYS:H	2:P:377:ARG:HH22	1.58	0.50
2:P:149:GLN:HG2	2:P:150:LYS:H	1.76	0.50
2:P:313:MET:O	2:P:316:LEU:HG	2.11	0.50
2:P:338:ASP:OD1	2:P:339:ILE:HG12	2.11	0.50
2:P:415:ASN:CB	2:P:488:GLU:HG3	2.41	0.50
2:Q:72:PHE:HA	2:Q:306:LYS:O	2.11	0.50
2:Q:375:PRO:HB2	2:Q:378:LEU:CD1	2.39	0.50
2:Q:576:LEU:O	2:Q:617:MET:HE1	2.11	0.50
2:R:69:ARG:HA	2:R:69:ARG:NE	2.25	0.50
2:R:112:PRO:CG	2:R:223:ILE:HG22	2.40	0.50
2:R:438:GLN:HA	2:R:441:PHE:CE1	2.46	0.50
2:R:642:ILE:CD1	2:R:714:GLU:HB2	2.29	0.50
2:R:893:ASP:C	2:R:897:LYS:HZ2	2.14	0.50
2:S:83:THR:HA	2:S:86:ILE:CG1	2.38	0.50
2:S:236:SER:HB2	2:S:241:PHE:CZ	2.46	0.50
2:S:571:LEU:HA	2:S:749:ALA:HB2	1.93	0.50
1:A:375:ARG:O	1:A:379:GLU:OE1	2.28	0.50
1:E:415:GLU:O	1:E:796:HIS:NE2	2.42	0.50
1:E:517:LEU:HD22	1:E:696:MET:HE2	1.93	0.50
1:F:556:ARG:NH1	1:F:560:LEU:HD21	2.26	0.50
1:G:511:ARG:HG2	1:G:562:PHE:CG	2.46	0.50
1:I:657:LYS:O	1:I:661:THR:OG1	2.26	0.50
1:J:98:TRP:CZ3	1:J:132:LEU:HD23	2.46	0.50
1:J:651:ARG:HB2	1:J:652:PRO:HD3	1.93	0.50
1:K:187:GLU:OE1	1:K:187:GLU:N	2.41	0.50
1:L:10:VAL:HG22	1:L:14:ARG:NH2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:395:LEU:N	1:L:399:GLN:OE1	2.42	0.50
2:M:121:ILE:CD1	2:M:232:ASP:HB3	2.41	0.50
2:M:139:GLY:O	2:M:140:TYR:HB3	2.11	0.50
2:M:414:PRO:HA	2:M:417:LEU:HB3	1.92	0.50
2:M:611:VAL:CG1	2:M:613:SER:H	2.24	0.50
2:M:755:ARG:HD2	2:M:767:SER:CA	2.42	0.50
2:N:105:LYS:HB2	2:N:216:ILE:HD13	1.92	0.50
2:O:133:VAL:HB	2:O:153:TRP:CZ2	2.46	0.50
2:O:366:MET:SD	2:O:467:ARG:NH2	2.84	0.50
2:O:434:LEU:HD22	2:O:449:ASP:OD1	2.11	0.50
2:O:625:LEU:HD11	2:O:850:ILE:HG21	1.92	0.50
2:P:356:LEU:CB	2:P:358:LEU:HG	2.41	0.50
2:P:438:GLN:HG2	2:P:439:HIS:N	2.26	0.50
2:P:555:CYS:O	2:P:558:VAL:HG12	2.11	0.50
2:P:858:ILE:HG12	2:P:895:LEU:HD23	1.93	0.50
2:Q:46:ARG:HE	2:Q:93:LEU:CD1	2.22	0.50
2:Q:445:SER:HA	2:Q:448:LYS:CE	2.41	0.50
2:Q:571:LEU:HD11	2:Q:742:TYR:CE2	2.46	0.50
2:Q:783:LEU:HD23	2:Q:817:PHE:HE2	1.75	0.50
2:R:128:ARG:HH21	2:S:191:ILE:CD1	2.24	0.50
2:R:163:GLY:O	2:R:196:LEU:HD21	2.11	0.50
2:R:170:LYS:HA	2:R:170:LYS:CE	2.31	0.50
2:R:217:LEU:HD12	2:R:247:VAL:O	2.11	0.50
2:R:225:THR:HA	2:S:297:TYR:HE1	1.76	0.50
2:R:376:VAL:O	2:R:380:MET:HG2	2.11	0.50
2:S:41:LEU:O	2:S:45:ILE:CD1	2.55	0.50
2:S:82:LYS:O	2:S:86:ILE:HG23	2.12	0.50
2:S:111:ASP:HB3	2:S:114:LYS:HG2	1.92	0.50
2:S:217:LEU:HD12	2:S:247:VAL:HG13	1.92	0.50
1:A:781:ARG:NH1	1:A:782:LYS:HG3	2.27	0.50
1:G:489:LYS:HG3	1:G:632:LEU:HD22	1.92	0.50
1:G:601:THR:O	1:G:605:GLN:OE1	2.29	0.50
1:G:641:ARG:O	1:G:645:LYS:HG2	2.11	0.50
1:H:377:TYR:O	1:H:381:LEU:HD23	2.12	0.50
1:H:510:ILE:HG23	1:H:692:VAL:HG21	1.93	0.50
1:J:94:MET:HA	1:J:97:GLU:OE1	2.12	0.50
1:J:649:MET:O	1:J:653:LEU:HG	2.10	0.50
1:L:166:LEU:HD21	1:L:269:GLU:HG3	1.94	0.50
1:L:195:ILE:HG23	1:L:196:ASP:N	2.27	0.50
1:L:535:GLY:HA3	1:L:727:TRP:CH2	2.46	0.50
2:M:318:GLY:CA	2:M:323:ALA:HB3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:414:PRO:HG2	2:M:491:GLN:HE22	1.74	0.50
2:N:71:VAL:H	2:N:306:LYS:HE3	1.76	0.50
2:N:220:PHE:CE2	2:N:248:VAL:HG13	2.46	0.50
2:N:493:SER:HB2	2:N:496:LYS:HB2	1.93	0.50
2:N:734:ILE:HA	2:N:737:VAL:HG22	1.93	0.50
2:N:762:HIS:CA	2:N:918:ASN:HD21	2.15	0.50
2:N:790:GLU:HB3	2:N:839:HIS:ND1	2.25	0.50
2:O:460:PHE:HB3	2:O:512:ASN:CG	2.32	0.50
2:O:492:GLY:O	2:O:724:GLU:HG3	2.11	0.50
2:O:720:VAL:HA	2:O:844:LEU:HD21	1.92	0.50
2:P:319:GLU:HG2	2:P:320:LYS:H	1.75	0.50
2:P:752:HIS:HA	2:P:755:ARG:HD2	1.94	0.50
2:P:756:LEU:HB3	2:P:927:TYR:CE1	2.46	0.50
2:P:790:GLU:O	2:P:794:HIS:HB2	2.11	0.50
2:Q:135:ASP:N	2:Q:138:LYS:HZ2	2.09	0.50
2:Q:333:GLU:H	2:Q:336:MET:CG	2.24	0.50
2:Q:733:LEU:CD1	2:Q:789:GLU:HB3	2.41	0.50
2:Q:852:HIS:HA	2:Q:855:ILE:CG1	2.41	0.50
2:Q:864:SER:HB3	2:Q:867:ALA:HB3	1.93	0.50
2:Q:914:ILE:HD12	2:Q:917:LEU:HB2	1.92	0.50
2:R:41:LEU:O	2:R:45:ILE:CD1	2.59	0.50
2:R:128:ARG:O	2:R:132:MET:HE2	2.11	0.50
2:R:331:LYS:HB2	2:R:336:MET:HG2	1.93	0.50
2:R:367:TYR:HA	2:R:467:ARG:HH12	1.76	0.50
2:R:376:VAL:HA	2:R:379:LEU:CG	2.41	0.50
2:R:437:GLU:HG3	2:R:440:ARG:HD3	1.93	0.50
2:R:787:LEU:HB2	2:R:842:PHE:CE1	2.46	0.50
2:S:147:ARG:NH1	2:S:148:LYS:HB3	2.26	0.50
2:S:365:ASP:HA	2:S:368:VAL:HG22	1.93	0.50
2:S:494:LEU:HD13	2:S:720:VAL:HG13	1.92	0.50
1:B:752:ILE:CG2	1:B:755:ALA:HB2	2.41	0.50
1:C:571:PRO:HD2	1:C:572:GLU:OE1	2.11	0.50
1:D:25:LEU:O	1:D:28:ARG:CD	2.59	0.50
1:D:28:ARG:CG	1:D:29:VAL:N	2.74	0.50
1:D:599:SER:OG	1:D:602:THR:HG23	2.11	0.50
1:G:560:LEU:HD21	1:G:679:TYR:OH	2.11	0.50
1:H:415:GLU:O	1:H:796:HIS:NE2	2.44	0.50
1:H:718:ASN:ND2	1:H:720:SER:OG	2.45	0.50
1:I:148:LEU:HD23	1:I:349:GLN:HE22	1.77	0.50
1:I:388:GLU:N	1:I:388:GLU:OE1	2.44	0.50
1:J:176:LEU:HD22	1:J:205:LYS:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:529:GLY:O	1:J:704:GLU:N	2.45	0.50
1:K:293:TRP:O	1:K:297:LEU:HD23	2.11	0.50
2:M:105:LYS:HZ2	2:M:213:CYS:HB3	1.76	0.50
2:M:114:LYS:HG3	2:N:239:LYS:HG3	1.93	0.50
2:M:451:PHE:CB	2:M:541:VAL:HG21	2.41	0.50
2:M:785:ALA:HA	2:M:788:VAL:CG2	2.41	0.50
2:N:352:VAL:HG12	2:N:358:LEU:CD2	2.39	0.50
2:N:358:LEU:CD2	2:N:364:ALA:HB2	2.41	0.50
2:N:505:CYS:O	2:N:508:VAL:HG22	2.10	0.50
2:N:566:LYS:HA	2:N:566:LYS:HE3	1.94	0.50
2:N:720:VAL:HG22	2:N:844:LEU:CB	2.29	0.50
2:N:727:ILE:HG22	2:N:729:PRO:HD3	1.93	0.50
2:N:833:LYS:HD3	2:N:833:LYS:C	2.30	0.50
2:O:153:TRP:CE2	2:O:157:LEU:HD11	2.47	0.50
2:O:316:LEU:HD22	2:O:326:GLU:OE2	2.12	0.50
2:P:140:TYR:CE2	2:P:147:ARG:HG3	2.46	0.50
2:P:204:VAL:HG12	2:P:245:LYS:HE3	1.94	0.50
2:P:494:LEU:O	2:P:497:PHE:HB3	2.10	0.50
2:P:519:ALA:HA	2:P:527:LYS:HZ2	1.76	0.50
2:P:610:THR:HG23	2:P:618:ASP:OD1	2.12	0.50
2:P:638:GLU:OE2	2:P:640:SER:HB2	2.11	0.50
2:Q:121:ILE:O	2:Q:124:THR:OG1	2.29	0.50
2:Q:303:PRO:HG2	2:Q:306:LYS:CD	2.38	0.50
2:Q:413:VAL:HB	2:Q:414:PRO:HD3	1.93	0.50
2:Q:435:ASN:OD1	2:Q:437:GLU:N	2.45	0.50
2:Q:459:ASP:OD1	2:Q:461:ASN:N	2.33	0.50
2:Q:744:ASN:HB2	2:Q:809:ASN:HD22	1.76	0.50
2:R:300:LYS:O	2:R:303:PRO:HD3	2.10	0.50
2:S:376:VAL:O	2:S:380:MET:HG2	2.11	0.50
2:S:506:GLY:O	2:S:510:ILE:HG12	2.12	0.50
2:S:729:PRO:CA	2:S:733:LEU:HD23	2.41	0.50
1:B:531:CYS:SG	1:B:703:ILE:HD12	2.52	0.50
1:C:415:GLU:N	1:C:415:GLU:OE1	2.44	0.50
1:E:651:ARG:CZ	1:E:651:ARG:HB2	2.42	0.50
1:F:527:ARG:NH2	1:F:744:CYS:SG	2.84	0.50
1:F:788:GLU:OE1	1:F:792:ILE:HD11	2.11	0.50
1:H:537:THR:OG1	1:H:540:ILE:HG22	2.11	0.50
1:H:585:VAL:HG12	1:H:589:HIS:CE1	2.46	0.50
1:I:84:GLU:O	1:I:89:LYS:HE2	2.12	0.50
1:I:631:SER:O	1:I:634:LEU:HD13	2.12	0.50
2:M:153:TRP:O	2:M:157:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:161:GLN:HB2	2:N:177:PHE:CD2	2.46	0.50
2:M:239:LYS:CD	2:S:114:LYS:HZ1	2.24	0.50
2:M:311:LYS:HE2	2:M:311:LYS:HA	1.94	0.50
2:M:494:LEU:H	2:M:724:GLU:CD	2.15	0.50
2:M:626:ILE:HD13	2:M:629:ILE:CD1	2.39	0.50
2:N:279:GLU:H	2:N:282:ARG:CZ	2.24	0.50
2:N:425:MET:HA	2:O:295:GLN:NE2	2.26	0.50
2:N:571:LEU:HD11	2:N:742:TYR:CE1	2.47	0.50
2:O:629:ILE:HD11	2:O:850:ILE:CG2	2.41	0.50
2:P:156:HIS:HB3	2:P:203:LEU:HD21	1.92	0.50
2:P:330:VAL:HG12	2:P:343:ASP:O	2.11	0.50
2:P:574:VAL:HG21	2:P:774:ILE:HG21	1.93	0.50
2:Q:166:LEU:HD21	2:Q:194:GLN:NE2	2.26	0.50
2:Q:314:LEU:HD22	2:Q:373:LYS:HE3	1.91	0.50
2:R:161:GLN:NE2	2:S:177:PHE:HB3	2.26	0.50
2:R:858:ILE:HD12	2:R:915:THR:CB	2.41	0.50
2:S:173:LYS:HG2	2:S:174:PRO:HD2	1.93	0.50
2:S:265:GLN:O	2:S:268:ASN:HB2	2.11	0.50
2:S:577:ASN:OD1	2:S:923:VAL:HB	2.11	0.50
2:S:599:LEU:HD21	2:S:849:PRO:CB	2.38	0.50
1:A:166:LEU:HD21	1:A:269:GLU:HG3	1.93	0.50
1:A:333:SER:C	1:A:337:ARG:HE	2.14	0.50
1:D:642:GLU:HG2	1:D:643:LEU:HD22	1.93	0.50
1:E:534:ILE:HG21	1:E:692:VAL:HG11	1.94	0.50
1:E:563:ILE:CG2	1:E:567:LEU:HD12	2.42	0.50
1:H:287:GLY:O	1:H:291:LEU:HD13	2.12	0.50
1:H:482:PRO:O	1:H:486:VAL:HG23	2.12	0.50
1:K:95:PHE:O	1:K:98:TRP:HB3	2.11	0.50
1:K:214:ILE:HG21	1:K:295:TYR:HB2	1.92	0.50
1:K:666:ARG:HA	1:K:669:ARG:HD3	1.93	0.50
1:K:723:HIS:O	1:K:727:TRP:CE3	2.65	0.50
1:L:526:ASP:C	1:L:701:ILE:HD12	2.32	0.50
2:M:102:VAL:HG12	2:M:102:VAL:O	2.11	0.50
2:M:302:PHE:O	2:M:307:ARG:NE	2.44	0.50
2:M:429:ILE:HG13	2:M:430:TYR:N	2.27	0.50
2:M:790:GLU:OE2	2:M:840:PRO:HD2	2.11	0.50
2:N:120:PRO:CG	2:N:123:VAL:CG2	2.87	0.50
2:N:135:ASP:HA	2:N:138:LYS:HG3	1.92	0.50
2:N:358:LEU:CG	2:N:364:ALA:HB2	2.41	0.50
2:N:727:ILE:HG13	2:N:840:PRO:HG2	1.92	0.50
2:O:386:PHE:CD1	2:O:417:LEU:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:645:ALA:O	2:O:649:VAL:HG12	2.11	0.50
2:P:82:LYS:O	2:P:86:ILE:HG23	2.11	0.50
2:P:359:ARG:HD2	2:P:793:TYR:C	2.32	0.50
2:P:890:GLU:OE2	2:P:891:GLU:HG3	2.12	0.50
2:Q:151:GLU:CA	2:Q:154:GLN:HE21	2.25	0.50
2:Q:318:GLY:N	2:Q:324:GLY:HA2	2.26	0.50
2:Q:575:GLN:CD	2:Q:923:VAL:HG11	2.32	0.50
2:Q:592:ASN:O	2:Q:595:THR:OG1	2.21	0.50
2:Q:733:LEU:HD12	2:Q:789:GLU:HB3	1.94	0.50
2:R:161:GLN:HE22	2:S:178:SER:N	2.10	0.50
2:R:573:MET:CB	2:R:621:SER:HB3	2.41	0.50
2:R:758:ARG:HD3	2:R:928:ASP:O	2.12	0.50
1:A:139:VAL:HG13	1:A:761:PHE:CE2	2.41	0.50
1:A:148:LEU:O	1:A:351:ARG:N	2.42	0.50
1:A:778:ASP:O	1:A:781:ARG:HD3	2.12	0.50
1:C:741:MET:SD	1:C:741:MET:N	2.85	0.50
1:F:162:GLU:OE2	1:F:753:PHE:HB3	2.11	0.50
1:G:334:TYR:CE1	1:G:373:VAL:HG12	2.47	0.50
1:H:20:LEU:HD21	1:H:287:GLY:HA3	1.94	0.50
1:H:659:TRP:HA	1:H:665:VAL:HG11	1.93	0.50
1:H:730:LEU:HG	1:H:772:PHE:CE1	2.46	0.50
1:I:186:GLN:O	1:I:189:LYS:N	2.44	0.50
1:L:366:MET:O	1:L:370:LEU:HG	2.11	0.50
2:M:282:ARG:HH21	2:R:431:ARG:CZ	2.24	0.50
2:M:332:THR:CB	2:M:342:ILE:HD12	2.42	0.50
2:M:443:MET:CE	2:M:496:LYS:HD3	2.28	0.50
2:M:501:LEU:O	2:M:505:CYS:HB2	2.12	0.50
2:M:579:LYS:HE2	2:M:579:LYS:HA	1.94	0.50
2:M:612:ALA:HB3	2:M:656:ILE:HD13	1.94	0.50
2:M:817:PHE:CE2	2:M:874:PHE:HE1	2.30	0.50
2:N:114:LYS:HZ1	2:O:238:ARG:C	2.14	0.50
2:N:128:ARG:HA	2:O:192:GLY:HA3	1.94	0.50
2:N:468:PRO:HB3	2:N:480:ILE:CD1	2.40	0.50
2:N:810:PRO:HB3	2:N:813:SER:O	2.10	0.50
2:O:269:TYR:HE1	2:O:286:ARG:HD3	1.74	0.50
2:O:543:ARG:HD3	2:P:469:GLN:NE2	2.27	0.50
2:O:748:VAL:HG12	2:O:811:VAL:HG22	1.92	0.50
2:O:833:LYS:NZ	2:O:834:THR:O	2.45	0.50
2:P:39:ASP:O	2:P:43:GLU:OE1	2.30	0.50
2:P:137:LEU:CD2	2:P:150:LYS:HE2	2.41	0.50
2:P:580:SER:HB3	2:P:590:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:35:LYS:HD3	2:Q:35:LYS:C	2.32	0.50
2:Q:109:THR:HA	2:Q:219:THR:OG1	2.11	0.50
2:Q:261:ILE:HG13	2:Q:262:ARG:N	2.27	0.50
2:Q:334:PRO:HG2	2:Q:391:TYR:HE1	1.76	0.50
2:Q:579:LYS:O	2:Q:579:LYS:HG3	2.11	0.50
2:Q:639:ARG:CG	2:Q:714:GLU:HG3	2.42	0.50
2:Q:805:GLY:HA3	2:Q:807:ARG:HH22	1.76	0.50
2:R:111:ASP:O	2:R:115:LEU:HD23	2.11	0.50
2:R:415:ASN:C	2:R:418:ARG:HG2	2.32	0.50
2:R:437:GLU:HG3	2:R:440:ARG:CG	2.41	0.50
2:R:752:HIS:HE1	2:R:811:VAL:HG12	1.77	0.50
2:S:107:LEU:HG	2:S:216:ILE:CG2	2.41	0.50
2:S:122:LEU:HD21	2:S:240:PHE:CD2	2.47	0.50
1:A:34:PHE:O	1:A:37:GLN:HG3	2.12	0.50
1:C:171:HIS:NE2	1:C:324:THR:HG22	2.27	0.50
1:C:724:ILE:HA	1:C:727:TRP:HE3	1.75	0.50
1:E:300:ASN:O	1:E:304:THR:HG23	2.11	0.50
1:E:657:LYS:O	1:E:661:THR:OG1	2.28	0.50
1:E:663:ASP:OD1	1:E:664:ASN:N	2.44	0.50
1:G:537:THR:OG1	1:G:540:ILE:HG22	2.12	0.50
2:M:437:GLU:HG3	2:M:440:ARG:HG2	1.94	0.50
2:M:451:PHE:O	2:M:455:LYS:HG3	2.11	0.50
2:M:543:ARG:HH12	2:N:470:SER:CA	2.22	0.50
2:M:558:VAL:HG11	2:M:573:MET:HE1	1.93	0.50
2:M:639:ARG:O	2:M:710:ILE:HD11	2.12	0.50
2:M:806:LEU:HG	2:M:808:LEU:CD2	2.41	0.50
2:N:314:LEU:HA	2:N:372:LEU:HD21	1.94	0.50
2:N:366:MET:HE3	2:N:469:GLN:HE21	1.75	0.50
2:N:651:ALA:CA	2:O:806:LEU:HD11	2.41	0.50
2:N:740:ARG:HE	2:N:809:ASN:HD21	1.59	0.50
2:N:790:GLU:O	2:N:794:HIS:HB2	2.11	0.50
2:O:219:THR:HG23	2:O:249:VAL:HB	1.94	0.50
2:O:245:LYS:C	2:O:246:LEU:HD12	2.31	0.50
2:O:282:ARG:O	2:O:286:ARG:HG2	2.12	0.50
2:O:344:VAL:HG23	2:O:345:ARG:H	1.77	0.50
2:O:790:GLU:O	2:O:794:HIS:N	2.38	0.50
2:P:152:GLN:OE1	2:P:206:ARG:HD3	2.12	0.50
2:P:164:LEU:O	2:P:164:LEU:HD23	2.11	0.50
2:P:255:ARG:HH21	2:P:259:GLN:N	2.10	0.50
2:P:286:ARG:O	2:P:290:VAL:HG23	2.12	0.50
2:P:412:SER:HB3	2:P:415:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:764:ARG:HA	2:P:863:CYS:SG	2.52	0.50
2:P:814:VAL:O	2:P:814:VAL:HG12	2.11	0.50
2:P:874:PHE:O	2:P:878:ILE:HG13	2.12	0.50
2:Q:147:ARG:O	2:Q:150:LYS:HE3	2.11	0.50
2:Q:313:MET:O	2:Q:317:VAL:HG22	2.12	0.50
2:Q:518:LEU:HD11	2:Q:660:TRP:HE3	1.74	0.50
2:R:204:VAL:HG22	2:R:245:LYS:HE3	1.93	0.50
2:R:259:GLN:HA	2:R:262:ARG:NH2	2.27	0.50
2:R:309:GLN:O	2:R:310:LEU:HB3	2.12	0.50
2:R:311:LYS:HE2	2:R:325:LYS:HZ1	1.76	0.50
2:R:388:THR:HG22	2:R:389:LYS:CE	2.41	0.50
2:R:413:VAL:HB	2:R:414:PRO:HD3	1.94	0.50
2:R:612:ALA:O	2:R:656:ILE:HD13	2.11	0.50
2:R:758:ARG:HG3	2:R:929:LYS:O	2.12	0.50
2:R:773:LYS:CG	2:R:860:GLY:HA2	2.18	0.50
2:R:776:ARG:HB2	2:R:857:PRO:HG3	1.94	0.50
2:S:376:VAL:O	2:S:379:LEU:HG	2.12	0.50
2:S:613:SER:HB2	2:S:657:VAL:HG23	1.94	0.50
1:D:594:LEU:O	1:F:650:LYS:NZ	2.45	0.50
1:D:775:SER:OG	1:D:778:ASP:OD2	2.28	0.50
1:F:227:LEU:O	1:F:227:LEU:CD1	2.57	0.50
1:I:92:LEU:HD23	1:I:134:PRO:HB3	1.94	0.50
1:I:150:GLU:OE2	1:I:151:THR:N	2.45	0.50
1:K:517:LEU:HD11	1:K:696:MET:HE1	1.94	0.50
1:K:581:ALA:HB1	1:K:600:ILE:HG21	1.94	0.50
1:L:723:HIS:O	1:L:727:TRP:CE3	2.65	0.50
2:M:191:ILE:HD11	2:S:109:THR:HG22	1.94	0.50
2:N:161:GLN:HG3	2:O:177:PHE:HD2	1.77	0.50
2:N:348:ILE:HG22	2:N:368:VAL:CG1	2.42	0.50
2:N:744:ASN:HB3	2:N:781:ALA:HB1	1.93	0.50
2:O:301:LEU:HD12	2:O:302:PHE:HD2	1.77	0.50
2:O:312:THR:OG1	2:O:315:GLN:HG2	2.12	0.50
2:O:639:ARG:O	2:O:639:ARG:HD3	2.11	0.50
2:P:42:VAL:HG21	2:P:92:SER:OG	2.12	0.50
2:P:126:THR:HG22	2:P:200:PHE:HE2	1.77	0.50
2:P:297:TYR:CZ	2:P:301:LEU:HD21	2.47	0.50
2:P:313:MET:SD	2:P:314:LEU:N	2.85	0.50
2:P:494:LEU:HB2	2:P:724:GLU:HB2	1.94	0.50
2:P:625:LEU:HD11	2:P:850:ILE:CG2	2.42	0.50
2:P:891:GLU:O	2:P:895:LEU:HG	2.11	0.50
2:Q:70:ASN:OD1	2:Q:247:VAL:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:166:LEU:HD11	2:Q:194:GLN:CD	2.32	0.50
2:Q:720:VAL:HA	2:Q:844:LEU:HD13	1.93	0.50
2:R:107:LEU:HD23	2:R:132:MET:HE1	1.94	0.50
2:R:316:LEU:HA	2:R:325:LYS:NZ	2.26	0.50
2:R:794:HIS:CG	2:R:796:VAL:HG22	2.47	0.50
2:S:87:ASN:HB3	2:S:91:LYS:HZ3	1.77	0.50
2:S:198:GLU:O	2:S:199:ILE:C	2.48	0.50
2:S:215:ALA:HB1	2:S:245:LYS:O	2.11	0.50
2:S:357:ASN:HA	2:S:728:ARG:HH21	1.77	0.50
2:S:364:ALA:O	2:S:368:VAL:HG13	2.11	0.50
2:S:443:MET:HE3	2:S:489:ASN:O	2.12	0.50
1:A:5:LEU:HB3	1:A:72:ILE:HD12	1.94	0.49
1:D:218:LEU:HA	1:D:221:VAL:HG22	1.93	0.49
1:D:220:ARG:O	1:D:225:VAL:HG22	2.12	0.49
1:E:540:ILE:O	1:E:540:ILE:HG23	2.12	0.49
1:E:546:PRO:HG2	1:E:549:LEU:HD23	1.94	0.49
1:F:420:PRO:HG2	1:F:466:VAL:HG12	1.94	0.49
1:F:542:LYS:O	1:F:542:LYS:HG3	2.12	0.49
1:G:353:LEU:HD23	1:G:416:LEU:HD11	1.94	0.49
1:G:497:TYR:HD1	1:G:499:VAL:HG13	1.77	0.49
1:H:446:ALA:O	1:H:450:MET:SD	2.70	0.49
1:H:450:MET:HG3	1:H:490:SER:OG	2.12	0.49
1:J:389:TRP:O	1:J:391:HIS:N	2.45	0.49
1:K:218:LEU:HD23	1:K:288:LEU:HD12	1.93	0.49
1:L:506:LEU:HD23	1:L:685:VAL:HG11	1.93	0.49
2:M:110:ILE:HD13	2:M:219:THR:O	2.12	0.49
2:M:437:GLU:CG	2:M:440:ARG:HB2	2.42	0.49
2:M:638:GLU:HG3	2:M:641:ALA:N	2.20	0.49
2:N:352:VAL:O	2:N:356:LEU:N	2.45	0.49
2:N:495:SER:OG	2:N:634:ALA:HB3	2.12	0.49
2:N:552:ASN:OD1	2:N:553:ARG:HG2	2.12	0.49
2:N:577:ASN:ND2	2:N:921:THR:O	2.45	0.49
2:O:69:ARG:NH2	2:O:244:ARG:HH22	2.06	0.49
2:O:83:THR:CA	2:O:86:ILE:HG12	2.40	0.49
2:O:293:LEU:O	2:O:296:GLN:HG3	2.12	0.49
2:O:336:MET:HA	2:O:340:ASP:CG	2.31	0.49
2:O:611:VAL:HG12	2:O:613:SER:H	1.76	0.49
2:O:727:ILE:HD12	2:O:794:HIS:CE1	2.47	0.49
2:O:802:ILE:CD1	2:O:807:ARG:HD2	2.42	0.49
2:O:861:ILE:HG23	2:O:871:GLU:CD	2.32	0.49
2:P:319:GLU:OE1	2:P:323:ALA:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:330:VAL:N	2:P:343:ASP:O	2.45	0.49
2:P:451:PHE:CD1	2:P:455:LYS:HD3	2.47	0.49
2:P:490:CYS:C	2:P:729:PRO:HD2	2.32	0.49
2:P:722:GLU:OE1	2:P:722:GLU:N	2.41	0.49
2:P:826:GLU:O	2:P:829:LYS:HE3	2.12	0.49
2:Q:313:MET:HG2	2:Q:372:LEU:CD1	2.42	0.49
2:Q:511:PHE:HB2	2:Q:535:TYR:CE2	2.46	0.49
2:Q:612:ALA:HB1	2:Q:656:ILE:HD13	1.94	0.49
2:R:159:GLN:HA	2:R:162:ARG:CZ	2.41	0.49
2:R:165:HIS:CD2	2:R:166:LEU:HD23	2.46	0.49
2:R:225:THR:HA	2:S:297:TYR:CZ	2.47	0.49
2:R:237:ILE:HA	2:R:241:PHE:CD2	2.47	0.49
2:R:260:LEU:CD1	2:R:261:ILE:HG23	2.41	0.49
2:R:311:LYS:HE3	2:R:315:GLN:O	2.12	0.49
2:R:551:ALA:HA	2:R:623:PHE:HE2	1.74	0.49
2:S:153:TRP:H	2:S:206:ARG:HH21	1.58	0.49
2:S:390:LYS:HG2	2:S:416:LEU:CD2	2.39	0.49
2:S:439:HIS:CE1	2:S:440:ARG:HG2	2.47	0.49
2:S:467:ARG:HH12	2:S:469:GLN:HG2	1.77	0.49
2:S:547:ALA:HB3	2:S:631:ASP:CG	2.33	0.49
2:S:737:VAL:HG12	2:S:789:GLU:HB2	1.92	0.49
1:A:220:ARG:HH11	1:A:256:THR:HG21	1.77	0.49
1:A:351:ARG:HG3	1:A:352:TYR:CD2	2.47	0.49
1:B:756:ASP:O	1:B:759:SER:N	2.45	0.49
1:C:646:THR:HB	1:C:649:MET:HE2	1.94	0.49
1:D:718:ASN:OD1	1:D:721:GLU:HG3	2.12	0.49
1:G:209:GLN:O	1:G:213:ASN:ND2	2.45	0.49
1:G:717:ARG:HA	1:G:717:ARG:NE	2.27	0.49
1:I:459:LEU:HB3	1:I:463:ILE:HD13	1.94	0.49
1:I:612:LEU:HD12	1:I:613:LEU:N	2.28	0.49
1:J:387:MET:CE	1:J:406:LEU:HD12	2.42	0.49
1:J:723:HIS:O	1:J:726:ARG:HG2	2.12	0.49
1:L:370:LEU:O	1:L:373:VAL:HG22	2.13	0.49
1:L:716:TYR:OH	1:L:723:HIS:ND1	2.35	0.49
2:M:112:PRO:HG2	2:M:223:ILE:HG22	1.93	0.49
2:M:113:THR:CG2	2:M:223:ILE:HA	2.41	0.49
2:M:114:LYS:HG3	2:N:239:LYS:CG	2.42	0.49
2:M:513:GLN:HB3	2:M:514:PHE:CE2	2.47	0.49
2:N:234:LEU:HD23	2:N:301:LEU:HD13	1.94	0.49
2:N:445:SER:HA	2:N:448:LYS:HZ3	1.76	0.49
2:N:610:THR:O	2:N:654:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:759:ASN:ND2	2:O:930:ASP:HB3	2.28	0.49
2:P:506:GLY:HA3	2:P:550:TRP:HH2	1.73	0.49
2:P:539:MET:CE	2:P:539:MET:HA	2.41	0.49
2:Q:357:ASN:CG	2:Q:491:GLN:HE21	2.14	0.49
2:Q:591:PHE:CE2	2:Q:608:LEU:HD11	2.47	0.49
2:R:429:ILE:O	2:R:432:ALA:HB3	2.12	0.49
2:S:81:GLY:N	2:S:377:ARG:HH12	2.09	0.49
2:S:452:THR:HG22	2:S:455:LYS:NZ	2.26	0.49
2:S:566:LYS:HZ2	2:S:924:GLY:HA2	1.77	0.49
2:S:729:PRO:CB	2:S:733:LEU:HD23	2.40	0.49
2:S:770:ASN:ND2	2:S:859:GLY:HA3	2.27	0.49
1:A:334:TYR:CD1	1:A:373:VAL:HG12	2.48	0.49
1:A:797:ASP:OD1	1:A:798:VAL:N	2.46	0.49
1:B:696:MET:HG2	1:B:701:ILE:HG23	1.94	0.49
1:C:225:VAL:O	1:C:227:LEU:N	2.46	0.49
1:D:397:ILE:H	1:D:397:ILE:HD12	1.75	0.49
1:D:457:PRO:O	1:D:460:THR:HG23	2.11	0.49
1:F:716:TYR:HH	1:F:723:HIS:HD1	1.43	0.49
1:F:788:GLU:O	1:F:791:ARG:HG2	2.12	0.49
1:G:165:TRP:CZ2	1:G:169:LEU:HD11	2.47	0.49
1:I:518:ARG:O	1:I:518:ARG:HD2	2.12	0.49
1:I:705:CYS:O	1:I:705:CYS:SG	2.70	0.49
1:J:236:ASN:O	1:J:239:GLN:OE1	2.30	0.49
1:K:220:ARG:NH2	1:K:254:PHE:O	2.43	0.49
1:L:29:VAL:O	1:L:32:SER:OG	2.26	0.49
1:L:284:ALA:HB3	1:L:289:GLU:OE2	2.12	0.49
2:M:265:GLN:CB	2:M:290:VAL:HG13	2.41	0.49
2:M:266:TYR:CE2	2:N:273:LEU:HD13	2.47	0.49
2:M:333:GLU:HB3	2:M:334:PRO:CD	2.43	0.49
2:M:448:LYS:HB2	2:M:542:GLY:HA3	1.95	0.49
2:N:231:TRP:CE2	2:N:264:LYS:HD2	2.47	0.49
2:N:369:ASN:O	2:N:373:LYS:HG3	2.12	0.49
2:N:611:VAL:HB	2:N:617:MET:O	2.12	0.49
2:N:748:VAL:HG21	2:N:778:ASN:OD1	2.11	0.49
2:O:314:LEU:HD11	2:O:369:ASN:OD1	2.11	0.49
2:O:363:ASP:OD2	2:O:732:LEU:HD11	2.11	0.49
2:O:493:SER:HA	2:O:724:GLU:OE1	2.12	0.49
2:O:760:ALA:O	2:O:768:GLN:HB3	2.13	0.49
2:P:75:ASP:HA	2:P:252:GLY:O	2.12	0.49
2:P:103:ASN:OD1	2:P:103:ASN:O	2.30	0.49
2:P:356:LEU:HB2	2:P:358:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:605:ALA:HA	2:P:608:LEU:CD1	2.42	0.49
2:P:626:ILE:HD13	2:P:782:PHE:CE1	2.47	0.49
2:P:651:ALA:HA	2:Q:806:LEU:HD13	1.94	0.49
2:Q:76:GLY:HA3	2:Q:82:LYS:CE	2.24	0.49
2:Q:228:ASP:OD2	2:R:268:ASN:HA	2.13	0.49
2:Q:713:VAL:O	2:Q:717:LEU:HD13	2.12	0.49
2:Q:815:ASP:C	2:Q:819:LYS:HZ2	2.15	0.49
2:R:730:SER:O	2:R:734:ILE:HG13	2.13	0.49
2:S:113:THR:HG21	2:S:225:THR:OG1	2.12	0.49
2:S:417:LEU:HD23	2:S:421:LEU:HD13	1.92	0.49
1:B:14:ARG:HH12	1:B:32:SER:HB3	1.76	0.49
1:B:89:LYS:HZ1	1:B:135:TYR:HD1	1.59	0.49
1:D:397:ILE:O	1:D:401:LEU:HD23	2.11	0.49
1:E:7:ASN:HD21	1:E:105:VAL:HG22	1.76	0.49
1:E:150:GLU:HB3	1:E:353:LEU:HD12	1.93	0.49
1:E:352:TYR:CD2	1:E:415:GLU:OE2	2.65	0.49
1:F:535:GLY:HA3	1:F:723:HIS:CD2	2.48	0.49
1:H:276:LEU:O	1:H:280:TRP:HE3	1.95	0.49
1:H:304:THR:O	1:H:307:VAL:HG22	2.12	0.49
1:H:304:THR:O	1:H:308:GLN:OE1	2.30	0.49
1:H:666:ARG:HA	1:H:669:ARG:HD3	1.93	0.49
1:I:342:HIS:NE2	1:I:345:GLY:O	2.44	0.49
1:I:649:MET:HE1	1:I:653:LEU:HD11	1.94	0.49
1:J:96:SER:HA	1:J:99:GLN:OE1	2.12	0.49
1:K:26:ASP:OD1	1:K:26:ASP:N	2.46	0.49
1:K:719:VAL:O	1:K:722:HIS:HB2	2.11	0.49
2:N:41:LEU:CD2	2:N:45:ILE:HD13	2.43	0.49
2:N:271:LYS:O	2:N:275:GLU:OE1	2.29	0.49
2:N:578:ARG:O	2:N:578:ARG:HD2	2.12	0.49
2:N:710:ILE:HG13	2:N:711:THR:N	2.27	0.49
2:O:41:LEU:O	2:O:44:SER:OG	2.26	0.49
2:O:70:ASN:HB2	2:O:244:ARG:NH2	2.26	0.49
2:P:210:ILE:HG13	2:P:211:LEU:HD23	1.94	0.49
2:P:319:GLU:O	2:P:345:ARG:NH2	2.45	0.49
2:P:561:SER:N	2:P:562:PRO:HD2	2.27	0.49
2:P:564:ASP:OD2	2:P:753:LYS:NZ	2.45	0.49
2:P:596:GLU:OE2	2:P:600:ALA:HB3	2.13	0.49
2:Q:113:THR:HG21	2:Q:223:ILE:HA	1.94	0.49
2:Q:349:GLY:O	2:Q:352:VAL:HG22	2.12	0.49
2:Q:354:GLU:HG2	2:Q:413:VAL:HG21	1.94	0.49
2:Q:887:LEU:HD23	2:Q:892:TRP:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:223:ILE:HG13	2:R:227:PHE:HA	1.93	0.49
2:R:303:PRO:HB2	2:R:305:GLN:HE22	1.77	0.49
2:R:353:ARG:HH21	2:R:360:GLU:HG3	1.75	0.49
2:R:358:LEU:HD12	2:R:732:LEU:HD23	1.95	0.49
2:R:872:THR:HG22	2:R:892:TRP:NE1	2.27	0.49
2:S:450:ILE:HG23	2:S:466:LEU:HD21	1.94	0.49
2:S:466:LEU:HD13	2:S:482:LEU:HD13	1.92	0.49
2:S:506:GLY:HA2	2:S:738:TRP:CZ2	2.48	0.49
2:S:596:GLU:HB2	2:S:601:LYS:HB2	1.94	0.49
1:A:517:LEU:HD21	1:A:528:LEU:HD11	1.94	0.49
1:D:34:PHE:O	1:D:37:GLN:NE2	2.42	0.49
1:D:270:PHE:O	1:D:274:THR:HG23	2.12	0.49
1:D:356:ARG:NH2	1:D:704:GLU:OE1	2.46	0.49
1:E:505:HIS:ND1	1:E:507:ILE:HG22	2.28	0.49
1:F:160:SER:OG	1:F:163:GLU:OE1	2.29	0.49
1:G:657:LYS:O	1:G:661:THR:OG1	2.25	0.49
1:H:636:GLU:O	1:H:639:ARG:NH1	2.43	0.49
1:I:128:PHE:CZ	1:I:130:TRP:HB3	2.48	0.49
1:I:450:MET:CE	1:I:486:VAL:HG22	2.43	0.49
1:J:591:VAL:HG23	1:J:668:GLN:HB3	1.93	0.49
1:K:71:ALA:O	1:K:75:LEU:HD13	2.13	0.49
1:K:601:THR:HG23	1:K:602:THR:N	2.28	0.49
2:M:293:LEU:HA	2:M:296:GLN:HG2	1.94	0.49
2:M:505:CYS:HB3	2:M:738:TRP:CD1	2.48	0.49
2:M:572:GLY:HA3	2:M:623:PHE:CZ	2.46	0.49
2:N:103:ASN:OD1	2:N:105:LYS:NZ	2.37	0.49
2:N:110:ILE:HD11	2:N:115:LEU:HD11	1.95	0.49
2:N:122:LEU:HD11	2:N:240:PHE:HB2	1.93	0.49
2:N:304:VAL:HG12	2:N:307:ARG:NH2	2.20	0.49
2:N:553:ARG:HA	2:N:553:ARG:NE	2.27	0.49
2:O:367:TYR:CE2	2:O:467:ARG:HG2	2.41	0.49
2:O:594:ASP:HA	2:O:601:LYS:NZ	2.27	0.49
2:O:599:LEU:HG	2:O:709:ALA:HB2	1.95	0.49
2:O:744:ASN:HB2	2:O:809:ASN:ND2	2.27	0.49
2:O:842:PHE:O	2:O:846:ILE:HG23	2.12	0.49
2:O:843:PHE:HA	2:O:846:ILE:HD11	1.93	0.49
2:P:75:ASP:O	2:P:310:LEU:HD13	2.13	0.49
2:P:208:CYS:SG	2:P:215:ALA:HA	2.53	0.49
2:Q:102:VAL:N	2:Q:214:LYS:HZ1	2.11	0.49
2:Q:282:ARG:O	2:Q:285:GLU:HG3	2.11	0.49
2:Q:727:ILE:HD11	2:Q:841:LEU:HD21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:44:SER:HA	2:R:47:ASN:OD1	2.13	0.49
2:R:129:LEU:O	2:R:132:MET:HG2	2.12	0.49
2:R:133:VAL:HG12	2:R:137:LEU:CD1	2.42	0.49
2:R:218:ILE:O	2:R:218:ILE:HG13	2.12	0.49
2:R:568:GLY:N	2:R:923:VAL:O	2.45	0.49
2:R:602:ALA:O	2:R:650:ILE:HG12	2.12	0.49
2:R:712:LYS:HD3	2:R:712:LYS:O	2.12	0.49
2:R:786:VAL:HG11	2:R:845:LEU:CD1	2.32	0.49
2:S:281:VAL:O	2:S:284:ALA:HB3	2.12	0.49
2:S:448:LYS:CG	2:S:542:GLY:HA3	2.43	0.49
1:A:280:TRP:CZ3	1:A:284:ALA:HB1	2.47	0.49
1:D:220:ARG:NH1	1:D:254:PHE:O	2.45	0.49
1:E:69:PRO:CD	1:E:293:TRP:CD1	2.94	0.49
1:H:176:LEU:HD23	1:H:177:ARG:HH22	1.77	0.49
1:H:575:ARG:NH1	1:H:576:TYR:CD2	2.80	0.49
1:H:664:ASN:OD1	1:H:665:VAL:N	2.46	0.49
1:I:219:CYS:O	1:I:223:GLN:HG2	2.13	0.49
1:I:510:ILE:CG2	1:I:692:VAL:HG21	2.41	0.49
1:J:204:PHE:HA	1:J:207:ARG:NH1	2.28	0.49
1:J:613:LEU:HD23	1:J:614:ALA:N	2.28	0.49
1:L:146:GLU:O	1:L:351:ARG:CZ	2.61	0.49
2:M:103:ASN:H	2:M:214:LYS:NZ	2.10	0.49
2:M:713:VAL:HA	2:M:849:PRO:HG3	1.93	0.49
2:M:770:ASN:OD1	2:M:773:LYS:HG3	2.12	0.49
2:N:205:LYS:HB2	2:N:206:ARG:HH12	1.77	0.49
2:N:238:ARG:HH11	2:N:301:LEU:CD2	2.26	0.49
2:N:599:LEU:HD21	2:N:849:PRO:HB2	1.94	0.49
2:N:599:LEU:HG	2:N:599:LEU:O	2.13	0.49
2:N:613:SER:CA	2:N:657:VAL:HG23	2.43	0.49
2:N:714:GLU:O	2:N:718:LYS:HG3	2.12	0.49
2:N:876:LYS:HD3	2:N:876:LYS:N	2.28	0.49
2:O:358:LEU:HD23	2:O:364:ALA:CB	2.40	0.49
2:O:536:VAL:HA	2:O:541:VAL:HG22	1.95	0.49
2:O:861:ILE:HG23	2:O:871:GLU:HG2	1.95	0.49
2:P:155:ASN:C	2:P:159:GLN:HE22	2.15	0.49
2:P:274:LEU:HD23	2:P:286:ARG:HH12	1.78	0.49
2:P:314:LEU:O	2:P:314:LEU:HD23	2.13	0.49
2:P:852:HIS:HB2	2:P:853:PRO:HD3	1.95	0.49
2:Q:173:LYS:HD2	2:Q:175:GLU:N	2.27	0.49
2:Q:569:VAL:HG22	2:Q:574:VAL:HG22	1.93	0.49
2:Q:917:LEU:HA	2:Q:920:SER:OG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:43:GLU:O	2:R:47:ASN:OD1	2.29	0.49
2:R:81:GLY:HA3	2:R:377:ARG:CZ	2.42	0.49
2:R:238:ARG:NH1	2:R:239:LYS:HB2	2.28	0.49
2:R:239:LYS:HD2	2:R:240:PHE:CE1	2.47	0.49
2:R:357:ASN:CB	2:R:728:ARG:HB3	2.42	0.49
2:R:597:ASN:HB2	2:R:911:GLN:OE1	2.11	0.49
2:S:152:GLN:HG3	2:S:156:HIS:CE1	2.48	0.49
2:S:275:GLU:HG2	2:S:276:GLN:OE1	2.13	0.49
2:S:337:GLN:HG2	2:S:337:GLN:O	2.13	0.49
2:S:494:LEU:HD12	2:S:844:LEU:HD13	1.95	0.49
2:S:891:GLU:O	2:S:895:LEU:HG	2.13	0.49
2:S:914:ILE:CG2	2:S:917:LEU:HD23	2.43	0.49
1:A:304:THR:O	1:A:308:GLN:OE1	2.31	0.49
1:B:65:MET:HG2	1:B:71:ALA:HB2	1.94	0.49
1:C:27:GLU:HG2	1:C:28:ARG:N	2.27	0.49
1:C:619:LEU:HD21	1:C:660:LEU:HD23	1.94	0.49
1:D:77:ALA:O	1:D:81:ILE:HG22	2.13	0.49
1:D:188:MET:HG2	1:D:192:CYS:HG	1.77	0.49
1:E:186:GLN:OE1	1:E:190:GLN:NE2	2.44	0.49
1:E:273:LEU:HD23	1:E:276:LEU:HD12	1.94	0.49
1:E:646:THR:HB	1:E:649:MET:CE	2.43	0.49
1:E:784:ALA:O	1:E:785:GLU:C	2.51	0.49
1:F:92:LEU:HD11	1:F:135:TYR:O	2.12	0.49
1:F:140:GLU:O	1:F:144:THR:HG23	2.11	0.49
1:G:506:LEU:O	1:G:510:ILE:HG12	2.13	0.49
1:H:220:ARG:NH2	1:H:255:ALA:O	2.45	0.49
1:I:92:LEU:HD23	1:I:134:PRO:HB2	1.94	0.49
1:J:79:LYS:HG3	1:J:94:MET:HE1	1.94	0.49
2:M:74:VAL:CB	2:M:251:THR:HG22	2.40	0.49
2:M:347:ALA:O	2:M:387:TYR:OH	2.29	0.49
2:N:75:ASP:OD1	2:N:309:GLN:HA	2.12	0.49
2:N:173:LYS:NZ	2:N:175:GLU:HB2	2.28	0.49
2:N:279:GLU:CG	2:N:282:ARG:HH12	2.25	0.49
2:N:511:PHE:O	2:N:515:VAL:HB	2.12	0.49
2:O:110:ILE:O	2:O:112:PRO:HD3	2.13	0.49
2:O:120:PRO:HG2	2:O:123:VAL:CB	2.42	0.49
2:O:597:ASN:O	2:O:911:GLN:HA	2.12	0.49
2:O:609:SER:O	2:O:618:ASP:HA	2.13	0.49
2:O:759:ASN:ND2	2:O:931:THR:H	2.10	0.49
2:P:121:ILE:HG21	2:P:220:PHE:CE1	2.41	0.49
2:P:122:LEU:HD21	2:P:167:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:296:GLN:NE2	2:P:297:TYR:HB2	2.27	0.49
2:P:345:ARG:HH22	2:P:369:ASN:HD21	1.60	0.49
2:Q:117:ARG:NH2	2:R:169:ASP:O	2.45	0.49
2:Q:223:ILE:HD13	2:Q:230:GLY:HA3	1.94	0.49
2:Q:452:THR:HG22	2:Q:456:GLN:OE1	2.12	0.49
2:Q:584:MET:CE	2:Q:589:LYS:HA	2.13	0.49
2:Q:602:ALA:HB1	2:Q:646:PHE:CZ	2.48	0.49
2:Q:643:THR:HG23	2:Q:710:ILE:CD1	2.42	0.49
2:Q:770:ASN:H	2:Q:773:LYS:HB2	1.77	0.49
2:R:128:ARG:HG2	2:S:191:ILE:O	2.12	0.49
2:R:328:ILE:O	2:R:329:LYS:HB2	2.11	0.49
2:R:367:TYR:HE2	2:R:468:PRO:HD3	1.77	0.49
2:R:492:GLY:H	2:R:727:ILE:HG13	1.76	0.49
2:R:603:ALA:HB1	2:R:850:ILE:HG23	1.94	0.49
2:R:611:VAL:O	2:R:616:LEU:HD12	2.12	0.49
2:S:231:TRP:CE2	2:S:235:GLU:OE2	2.65	0.49
2:S:784:HIS:CD2	2:S:817:PHE:HD1	2.31	0.49
2:S:784:HIS:NE2	2:S:820:LYS:HD2	2.27	0.49
1:A:599:SER:O	1:A:602:THR:HG22	2.12	0.49
1:B:225:VAL:C	1:B:226:GLU:OE1	2.51	0.49
1:B:526:ASP:O	1:B:701:ILE:HD12	2.13	0.49
1:B:588:ALA:HA	1:B:591:VAL:HG12	1.95	0.49
1:C:511:ARG:HE	1:C:558:LEU:HB3	1.78	0.49
1:D:297:LEU:O	1:D:301:GLN:OE1	2.30	0.49
1:E:602:THR:O	1:E:606:VAL:HG23	2.12	0.49
1:F:728:MET:SD	1:F:782:LYS:HD3	2.53	0.49
1:F:784:ALA:O	1:F:788:GLU:HG3	2.12	0.49
1:G:356:ARG:HB3	1:G:421:HIS:NE2	2.28	0.49
1:I:446:ALA:HB2	1:I:483:LEU:HD11	1.93	0.49
1:I:600:ILE:HA	1:I:603:LEU:HD12	1.94	0.49
1:I:650:LYS:HD2	1:I:651:ARG:N	2.28	0.49
1:J:44:LEU:HD11	1:J:48:VAL:CB	2.42	0.49
1:J:98:TRP:CH2	1:J:132:LEU:HB3	2.48	0.49
1:J:153:GLN:OE1	1:J:747:SER:OG	2.30	0.49
1:K:58:GLN:O	1:K:62:GLN:OE1	2.31	0.49
1:K:656:TYR:O	1:K:660:LEU:HD13	2.12	0.49
2:M:737:VAL:HG22	2:M:789:GLU:HB3	1.93	0.49
2:M:749:ALA:O	2:M:753:LYS:HG3	2.13	0.49
2:N:218:ILE:CG1	2:N:220:PHE:HE2	2.26	0.49
2:N:256:LEU:HD12	2:N:257:TYR:CD1	2.48	0.49
2:N:352:VAL:HG21	2:N:368:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:353:ARG:HG3	2:N:359:ARG:O	2.12	0.49
2:N:446:LEU:HD11	2:N:486:VAL:HA	1.94	0.49
2:N:541:VAL:O	2:N:541:VAL:HG13	2.12	0.49
2:N:543:ARG:HD3	2:O:469:GLN:OE1	2.13	0.49
2:N:611:VAL:N	2:N:617:MET:O	2.42	0.49
2:N:787:LEU:HD13	2:N:842:PHE:CD2	2.46	0.49
2:O:256:LEU:HD11	2:O:257:TYR:CE2	2.48	0.49
2:O:296:GLN:O	2:O:299:LEU:HG	2.12	0.49
2:O:332:THR:N	2:O:336:MET:SD	2.81	0.49
2:O:413:VAL:HB	2:O:414:PRO:HD3	1.95	0.49
2:O:453:TYR:OH	2:O:479:SER:HB3	2.13	0.49
2:O:609:SER:O	2:O:619:PHE:N	2.46	0.49
2:O:787:LEU:O	2:O:790:GLU:HG2	2.12	0.49
2:O:794:HIS:NE2	2:O:796:VAL:HG13	2.28	0.49
2:O:833:LYS:HD3	2:O:833:LYS:C	2.32	0.49
2:P:37:LEU:HD12	2:P:309:GLN:NE2	2.28	0.49
2:P:314:LEU:HD23	2:P:314:LEU:C	2.33	0.49
2:P:425:MET:O	2:P:428:ASN:HB2	2.13	0.49
2:P:612:ALA:HB3	2:P:655:CYS:C	2.33	0.49
2:P:709:ALA:O	2:P:713:VAL:HG23	2.13	0.49
2:Q:644:ASN:ND2	2:R:804:GLU:OE1	2.46	0.49
2:Q:755:ARG:HB2	2:Q:769:SER:OG	2.13	0.49
2:Q:803:GLY:HA2	2:Q:827:LYS:NZ	2.28	0.49
2:R:158:ALA:CB	2:R:162:ARG:HH21	2.25	0.49
2:R:311:LYS:HE2	2:R:325:LYS:HE2	1.93	0.49
2:R:499:GLN:O	2:R:503:VAL:HG23	2.12	0.49
2:R:519:ALA:CB	2:R:528:PHE:HD1	2.25	0.49
2:R:704:THR:HG23	2:R:705:GLU:N	2.28	0.49
2:S:418:ARG:HD2	2:S:419:ASN:N	2.26	0.49
1:A:791:ARG:NH2	1:H:141:ASP:OD2	2.45	0.49
1:B:352:TYR:CE2	1:B:791:ARG:HG3	2.48	0.49
1:B:689:GLN:O	1:B:693:MET:HG3	2.12	0.49
1:C:265:SER:O	1:C:268:SER:N	2.46	0.49
1:C:778:ASP:OD1	1:C:781:ARG:NH2	2.42	0.49
1:E:172:PRO:HB3	1:E:208:LEU:HD11	1.95	0.49
1:E:649:MET:O	1:E:653:LEU:HD13	2.12	0.49
1:I:784:ALA:O	1:I:785:GLU:C	2.50	0.49
1:K:2:GLU:HG3	1:K:56:LEU:HD21	1.95	0.49
1:K:80:PHE:HB3	1:K:90:ILE:HD11	1.95	0.49
1:K:150:GLU:HB3	1:K:353:LEU:HD12	1.94	0.49
1:K:513:ILE:CD1	1:K:534:ILE:HG23	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:LEU:HA	2:M:257:TYR:CD2	2.46	0.49
2:M:284:ALA:O	2:M:288:TYR:CD2	2.66	0.49
2:M:518:LEU:CB	2:M:531:LEU:HD21	2.41	0.49
2:M:571:LEU:HD22	2:M:623:PHE:HZ	1.78	0.49
2:M:649:VAL:HG13	2:M:650:ILE:HG23	1.92	0.49
2:M:755:ARG:HB3	2:M:769:SER:HB3	1.95	0.49
2:M:755:ARG:HD2	2:M:767:SER:C	2.33	0.49
2:N:486:VAL:HG21	2:N:731:ALA:CB	2.33	0.49
2:N:495:SER:HB3	2:N:634:ALA:CB	2.43	0.49
2:N:841:LEU:O	2:N:845:LEU:HG	2.13	0.49
2:O:250:ALA:HB3	2:O:302:PHE:CE1	2.48	0.49
2:O:609:SER:N	2:O:619:PHE:O	2.45	0.49
2:O:773:LYS:CA	2:O:776:ARG:HG2	2.40	0.49
2:O:782:PHE:CE2	2:O:845:LEU:HD22	2.47	0.49
2:P:70:ASN:C	2:P:306:LYS:HE2	2.32	0.49
2:P:269:TYR:HB3	2:P:274:LEU:HD21	1.92	0.49
2:P:552:ASN:OD1	2:P:553:ARG:N	2.46	0.49
2:P:569:VAL:CG2	2:P:574:VAL:HG22	2.42	0.49
2:P:569:VAL:HG23	2:P:922:ILE:HG21	1.94	0.49
2:P:741:PHE:HE1	2:P:782:PHE:HB2	1.77	0.49
2:Q:120:PRO:CG	2:Q:123:VAL:CG2	2.91	0.49
2:Q:262:ARG:O	2:Q:265:GLN:HB2	2.12	0.49
2:Q:331:LYS:HE3	2:Q:333:GLU:O	2.12	0.49
2:Q:383:LEU:HG	2:Q:387:TYR:CE2	2.48	0.49
2:R:93:LEU:HB3	2:R:106:CYS:SG	2.53	0.49
2:R:114:LYS:O	2:R:115:LEU:HD22	2.13	0.49
2:R:389:LYS:HB3	2:R:416:LEU:CD1	2.43	0.49
2:R:628:ALA:CB	2:R:649:VAL:HG21	2.43	0.49
2:R:738:TRP:CZ2	2:R:742:TYR:HB2	2.46	0.49
2:S:125:VAL:O	2:S:129:LEU:HG	2.12	0.49
2:S:319:GLU:O	2:S:345:ARG:NH2	2.46	0.49
2:S:596:GLU:O	2:S:601:LYS:HD2	2.13	0.49
2:S:638:GLU:O	2:S:642:ILE:HG12	2.13	0.49
1:B:420:PRO:CG	1:B:466:VAL:HG12	2.41	0.49
1:B:537:THR:HG22	1:B:726:ARG:HH11	1.78	0.49
1:C:100:THR:O	1:C:103:SER:OG	2.26	0.49
1:C:494:HIS:O	1:C:495:PHE:CD1	2.66	0.49
1:C:638:GLU:OE1	1:C:641:ARG:CD	2.60	0.49
1:E:98:TRP:CD1	1:E:98:TRP:C	2.85	0.49
1:F:540:ILE:O	1:F:540:ILE:HG13	2.12	0.49
1:G:4:PHE:CE1	1:G:37:GLN:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ARG:O	1:G:559:ASP:HB2	2.13	0.49
1:K:205:LYS:NZ	1:K:208:LEU:HD22	2.27	0.49
1:L:599:SER:OG	1:L:602:THR:HG23	2.12	0.49
2:M:332:THR:HG23	2:M:387:TYR:CG	2.48	0.49
2:M:386:PHE:O	2:M:416:LEU:HD21	2.13	0.49
2:M:771:ALA:HB2	2:M:922:ILE:CG1	2.43	0.49
2:M:784:HIS:O	2:M:788:VAL:HG13	2.12	0.49
2:N:540:SER:HG	2:N:543:ARG:NH1	2.11	0.49
2:N:608:LEU:HD11	2:N:618:ASP:OD2	2.12	0.49
2:N:639:ARG:HH21	2:N:710:ILE:HD12	1.77	0.49
2:O:103:ASN:HB3	2:O:214:LYS:CD	2.43	0.49
2:O:207:ALA:O	2:O:211:LEU:HD23	2.11	0.49
2:O:412:SER:CB	2:O:491:GLN:HE22	2.26	0.49
2:O:437:GLU:HG2	2:O:439:HIS:CE1	2.48	0.49
2:O:518:LEU:HD21	2:O:660:TRP:HB2	1.94	0.49
2:O:707:SER:O	2:O:711:THR:HG23	2.12	0.49
2:P:41:LEU:HD22	2:P:89:VAL:HG11	1.94	0.49
2:P:70:ASN:OD1	2:P:246:LEU:HD12	2.12	0.49
2:P:107:LEU:HG	2:P:132:MET:HE2	1.92	0.49
2:P:207:ALA:HA	2:P:210:ILE:CG1	2.43	0.49
2:P:355:GLY:O	2:P:414:PRO:HA	2.13	0.49
2:P:415:ASN:HB3	2:P:488:GLU:HG3	1.94	0.49
2:P:519:ALA:HB2	2:P:531:LEU:CD2	2.43	0.49
2:P:554:CYS:HB3	2:P:623:PHE:CE2	2.48	0.49
2:P:575:GLN:CD	2:P:617:MET:HG2	2.32	0.49
2:Q:136:LYS:HE3	2:Q:211:LEU:C	2.33	0.49
2:Q:225:THR:HG22	2:R:297:TYR:HD1	1.73	0.49
2:Q:230:GLY:O	2:Q:234:LEU:CD1	2.61	0.49
2:Q:574:VAL:CG2	2:Q:774:ILE:HG21	2.42	0.49
2:R:198:GLU:CA	2:R:201:GLU:HG2	2.43	0.49
2:R:261:ILE:CG1	2:R:294:GLU:HG2	2.43	0.49
2:R:358:LEU:HD12	2:R:732:LEU:CD2	2.43	0.49
2:R:606:SER:HA	2:R:650:ILE:HA	1.95	0.49
2:S:72:PHE:CE1	2:S:306:LYS:HE3	2.48	0.49
2:S:73:PHE:HB2	2:S:302:PHE:CE1	2.48	0.49
2:S:104:ILE:HA	2:S:213:CYS:HB2	1.94	0.49
2:S:198:GLU:O	2:S:201:GLU:N	2.45	0.49
1:A:200:THR:HB	1:A:202:ARG:NH1	2.28	0.48
1:A:659:TRP:HA	1:A:665:VAL:HG11	1.95	0.48
1:C:503:PHE:O	1:D:47:HIS:NE2	2.46	0.48
1:C:728:MET:HE1	1:C:782:LYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:245:ILE:O	1:D:252:TYR:N	2.33	0.48
1:D:459:LEU:O	1:D:462:TRP:N	2.41	0.48
1:D:606:VAL:HG22	1:D:652:PRO:HA	1.94	0.48
1:E:352:TYR:CE1	1:E:791:ARG:HG2	2.48	0.48
1:E:531:CYS:SG	1:E:703:ILE:HD12	2.53	0.48
1:E:724:ILE:HA	1:E:727:TRP:CD1	2.48	0.48
1:G:651:ARG:HB3	1:G:652:PRO:HD3	1.95	0.48
1:H:108:LEU:CD2	1:H:273:LEU:HD12	2.43	0.48
1:I:3:ARG:HE	1:I:104:ARG:HG3	1.77	0.48
1:J:377:TYR:CE1	1:J:381:LEU:HD21	2.47	0.48
1:J:380:TYR:CD2	1:J:381:LEU:HD22	2.46	0.48
1:K:99:GLN:OE1	1:K:763:HIS:ND1	2.46	0.48
1:K:643:LEU:O	1:K:649:MET:HE2	2.12	0.48
1:K:739:VAL:O	1:K:741:MET:HE3	2.13	0.48
1:L:151:THR:O	1:L:527:ARG:NH1	2.42	0.48
1:L:564:TRP:CZ2	1:L:600:ILE:HD12	2.48	0.48
2:M:319:GLU:N	2:M:323:ALA:HB3	2.27	0.48
2:M:506:GLY:O	2:M:510:ILE:N	2.26	0.48
2:M:741:PHE:CE1	2:M:782:PHE:HA	2.47	0.48
2:M:758:ARG:NE	2:M:927:TYR:O	2.36	0.48
2:M:772:ALA:N	2:M:917:LEU:HG	2.28	0.48
2:N:103:ASN:CB	2:N:214:LYS:HZ2	2.26	0.48
2:N:238:ARG:HH11	2:N:301:LEU:HD21	1.77	0.48
2:N:278:LYS:N	2:N:282:ARG:HH21	2.11	0.48
2:N:456:GLN:HG2	2:N:475:LEU:HD11	1.95	0.48
2:N:734:ILE:O	2:N:737:VAL:HG22	2.13	0.48
2:N:748:VAL:HG12	2:N:811:VAL:HG13	1.95	0.48
2:O:137:LEU:CD2	2:O:210:ILE:HG23	2.43	0.48
2:O:237:ILE:CA	2:O:241:PHE:HD2	2.19	0.48
2:O:437:GLU:OE2	2:O:439:HIS:ND1	2.46	0.48
2:O:512:ASN:HA	2:O:516:THR:HG21	1.94	0.48
2:O:549:HIS:HA	2:O:552:ASN:ND2	2.28	0.48
2:O:580:SER:CB	2:O:590:LYS:HD3	2.31	0.48
2:P:110:ILE:HD12	2:P:128:ARG:NH2	2.28	0.48
2:P:443:MET:HG3	2:P:496:LYS:CE	2.39	0.48
2:P:453:TYR:CZ	2:P:475:LEU:HG	2.46	0.48
2:P:596:GLU:O	2:P:601:LYS:HB2	2.13	0.48
2:Q:126:THR:HG21	2:Q:160:LEU:HD21	1.94	0.48
2:Q:355:GLY:C	2:Q:356:LEU:HD22	2.33	0.48
2:Q:371:LEU:HD23	2:Q:371:LEU:O	2.13	0.48
2:Q:446:LEU:CD1	2:Q:450:ILE:HD11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:496:LYS:HD2	2:Q:496:LYS:HA	1.67	0.48
2:R:156:HIS:HB3	2:R:203:LEU:HD21	1.94	0.48
2:R:329:LYS:N	2:R:344:VAL:HG13	2.28	0.48
2:R:596:GLU:OE1	2:R:604:MET:HE1	2.13	0.48
2:S:270:SER:OG	2:S:273:LEU:HB2	2.13	0.48
2:S:459:ASP:O	2:S:460:PHE:HB2	2.13	0.48
2:S:464:PHE:O	2:S:466:LEU:HG	2.13	0.48
2:S:492:GLY:HA2	2:S:724:GLU:O	2.13	0.48
2:S:510:ILE:HG13	2:S:535:TYR:OH	2.13	0.48
2:S:519:ALA:O	2:S:527:LYS:NZ	2.46	0.48
2:S:567:ILE:HD13	2:S:753:LYS:HB3	1.93	0.48
2:S:579:LYS:NZ	2:S:581:ARG:O	2.40	0.48
2:S:728:ARG:CG	2:S:796:VAL:HG13	2.42	0.48
2:S:816:GLU:O	2:S:820:LYS:HG3	2.13	0.48
1:A:55:TYR:CZ	1:L:672:TYR:HB3	2.48	0.48
1:A:96:SER:O	1:A:100:THR:HG23	2.13	0.48
1:A:333:SER:O	1:A:337:ARG:NE	2.43	0.48
1:D:7:ASN:ND2	1:D:104:ARG:O	2.42	0.48
1:D:782:LYS:HA	1:D:785:GLU:OE1	2.12	0.48
1:E:100:THR:O	1:E:104:ARG:NH1	2.46	0.48
1:E:136:HIS:CE1	1:E:138:THR:HG23	2.48	0.48
1:E:565:ARG:C	1:E:568:ARG:NH1	2.67	0.48
1:F:651:ARG:HB3	1:F:652:PRO:HD3	1.94	0.48
1:G:162:GLU:OE2	1:G:753:PHE:HB3	2.13	0.48
1:H:153:GLN:NE2	1:H:354:GLU:O	2.46	0.48
1:H:351:ARG:NH1	1:H:352:TYR:CE1	2.81	0.48
1:H:360:LYS:HD3	1:H:361:SER:N	2.28	0.48
1:I:644:VAL:HG12	1:I:653:LEU:HD11	1.95	0.48
1:J:456:GLU:OE1	1:J:459:LEU:N	2.46	0.48
1:L:285:PRO:HG2	1:L:288:LEU:HD12	1.95	0.48
1:L:487:LEU:HB3	1:L:492:ILE:HD13	1.95	0.48
2:M:149:GLN:OE1	2:M:206:ARG:NH2	2.47	0.48
2:N:277:GLU:C	2:N:282:ARG:HE	2.17	0.48
2:N:376:VAL:HG23	2:N:377:ARG:CD	2.43	0.48
2:N:382:VAL:HG23	2:N:420:ALA:HB1	1.94	0.48
2:N:625:LEU:O	2:N:629:ILE:CD1	2.57	0.48
2:N:779:VAL:CG1	2:N:851:LEU:HD22	2.40	0.48
2:O:114:LYS:HZ2	2:P:239:LYS:CA	2.26	0.48
2:O:424:SER:C	2:O:425:MET:HE2	2.34	0.48
2:O:425:MET:HA	2:P:295:GLN:NE2	2.28	0.48
2:O:519:ALA:HA	2:O:527:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:69:ARG:HA	2:P:69:ARG:NE	2.27	0.48
2:P:71:VAL:CG2	2:P:248:VAL:HB	2.34	0.48
2:P:83:THR:CA	2:P:86:ILE:HG12	2.41	0.48
2:P:275:GLU:C	2:P:278:LYS:HE3	2.32	0.48
2:P:569:VAL:HG21	2:P:922:ILE:HD13	1.96	0.48
2:P:636:ARG:HG3	2:P:638:GLU:H	1.78	0.48
2:Q:46:ARG:HB3	2:Q:102:VAL:HG11	1.95	0.48
2:Q:205:LYS:CE	2:Q:245:LYS:HD3	2.43	0.48
2:Q:227:PHE:O	2:Q:260:LEU:HD12	2.12	0.48
2:Q:348:ILE:HG22	2:Q:368:VAL:HG13	1.95	0.48
2:Q:354:GLU:HG3	2:Q:413:VAL:CB	2.43	0.48
2:Q:367:TYR:HE2	2:Q:467:ARG:HG3	1.78	0.48
2:Q:446:LEU:O	2:Q:450:ILE:CD1	2.59	0.48
2:Q:509:SER:OG	2:Q:738:TRP:NE1	2.27	0.48
2:R:439:HIS:HB3	2:S:315:GLN:HE21	1.78	0.48
2:R:543:ARG:CG	2:S:469:GLN:HE22	2.26	0.48
2:R:626:ILE:HA	2:R:629:ILE:HD13	1.95	0.48
2:S:305:GLN:HG2	2:S:306:LYS:HG3	1.95	0.48
2:S:327:GLU:CD	2:S:329:LYS:HG3	2.32	0.48
2:S:332:THR:N	2:S:336:MET:HE3	2.24	0.48
2:S:353:ARG:HG3	2:S:359:ARG:O	2.13	0.48
2:S:535:TYR:CE2	2:S:539:MET:CE	2.96	0.48
1:A:44:LEU:HD11	1:A:48:VAL:CG1	2.43	0.48
1:A:258:TRP:CH2	1:A:263:LYS:HE3	2.48	0.48
1:A:464:ARG:HD2	1:A:493:ALA:HB3	1.95	0.48
1:B:518:ARG:NH1	1:B:519:PHE:CE1	2.82	0.48
1:B:542:LYS:HB2	1:B:677:LEU:HD21	1.94	0.48
1:B:763:HIS:O	1:B:767:VAL:HG23	2.13	0.48
1:D:214:ILE:HG23	1:D:291:LEU:HB3	1.94	0.48
1:G:739:VAL:HG12	1:G:740:PRO:N	2.29	0.48
1:G:784:ALA:O	1:G:788:GLU:OE1	2.30	0.48
1:H:222:ALA:HB2	1:H:276:LEU:CD2	2.43	0.48
1:J:57:VAL:HA	1:J:60:ILE:HG22	1.94	0.48
1:J:100:THR:O	1:J:104:ARG:NH2	2.46	0.48
2:M:73:PHE:H	2:M:307:ARG:HA	1.78	0.48
2:M:117:ARG:HG2	2:M:118:HIS:ND1	2.26	0.48
2:M:219:THR:HA	2:M:249:VAL:HG12	1.95	0.48
2:M:414:PRO:HB2	2:M:488:GLU:OE2	2.13	0.48
2:M:585:PRO:HG2	2:M:586:GLU:CD	2.33	0.48
2:M:736:LYS:HA	2:M:739:SER:OG	2.13	0.48
2:N:330:VAL:O	2:N:341:ALA:HB1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:524:ASP:HB3	2:N:527:LYS:HG3	1.95	0.48
2:N:740:ARG:HE	2:N:809:ASN:CG	2.16	0.48
2:N:745:LEU:CA	2:N:748:VAL:HG22	2.39	0.48
2:O:301:LEU:CD1	2:O:302:PHE:CD2	2.96	0.48
2:O:507:SER:CB	2:O:539:MET:HE1	2.44	0.48
2:O:594:ASP:HA	2:O:601:LYS:HZ3	1.79	0.48
2:O:607:SER:HB3	2:O:625:LEU:HB2	1.94	0.48
2:P:149:GLN:HB2	2:P:210:ILE:HG22	1.96	0.48
2:P:273:LEU:HD12	2:P:277:GLU:OE1	2.12	0.48
2:P:599:LEU:HB3	2:P:912:ASN:OD1	2.12	0.48
2:Q:438:GLN:HG3	2:R:309:GLN:NE2	2.28	0.48
2:Q:580:SER:HB2	2:Q:589:LYS:NZ	2.27	0.48
2:R:103:ASN:ND2	2:R:213:CYS:HA	2.28	0.48
2:R:103:ASN:O	2:R:214:LYS:HB2	2.12	0.48
2:R:120:PRO:CG	2:R:123:VAL:CG2	2.89	0.48
2:R:303:PRO:HG2	2:R:306:LYS:HZ1	1.79	0.48
2:R:331:LYS:O	2:R:331:LYS:HD2	2.13	0.48
2:R:460:PHE:O	2:R:512:ASN:ND2	2.45	0.48
2:R:737:VAL:HG22	2:R:789:GLU:HB2	1.94	0.48
2:R:831:ASP:HB3	2:R:833:LYS:HD3	1.94	0.48
2:R:839:HIS:HB3	2:R:842:PHE:HB3	1.96	0.48
2:S:439:HIS:ND1	2:S:440:ARG:HG2	2.29	0.48
2:S:870:LYS:HD2	2:S:871:GLU:N	2.28	0.48
1:B:111:ILE:HG22	1:B:115:GLN:HE22	1.78	0.48
1:D:579:ASP:O	1:D:582:ILE:N	2.47	0.48
1:F:724:ILE:HA	1:F:727:TRP:HE3	1.77	0.48
1:G:178:ASP:OD2	1:G:324:THR:N	2.46	0.48
1:G:374:LEU:HB3	1:G:400:VAL:HG11	1.94	0.48
1:H:727:TRP:CD1	1:H:741:MET:CE	2.96	0.48
1:J:540:ILE:O	1:J:540:ILE:HG23	2.14	0.48
1:K:272:TRP:CZ3	1:K:273:LEU:HD21	2.48	0.48
1:K:415:GLU:O	1:K:796:HIS:NE2	2.46	0.48
1:K:723:HIS:O	1:K:726:ARG:HG2	2.14	0.48
1:K:762:TYR:O	1:K:766:VAL:HG23	2.13	0.48
1:L:148:LEU:HD12	1:L:350:VAL:HG23	1.94	0.48
2:M:466:LEU:HD12	2:M:482:LEU:HB2	1.94	0.48
2:M:570:PHE:HD1	2:M:573:MET:HG2	1.77	0.48
2:M:876:LYS:HZ1	2:M:877:LEU:HG	1.78	0.48
2:N:195:ASP:OD1	2:N:197:SER:HB3	2.14	0.48
2:N:201:GLU:OE1	2:N:243:SER:HB2	2.12	0.48
2:N:282:ARG:HA	2:N:285:GLU:HG2	1.89	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:543:ARG:CA	2:O:469:GLN:HE22	2.26	0.48
2:O:39:ASP:O	2:O:43:GLU:OE1	2.30	0.48
2:O:70:ASN:HA	2:O:306:LYS:HZ3	1.78	0.48
2:O:107:LEU:HD13	2:O:216:ILE:CG2	2.42	0.48
2:O:153:TRP:HA	2:O:206:ARG:NE	2.28	0.48
2:O:358:LEU:CD2	2:O:364:ALA:HB2	2.42	0.48
2:O:366:MET:HE1	2:O:367:TYR:CE2	2.49	0.48
2:O:455:LYS:CD	2:O:532:ILE:HD12	2.42	0.48
2:P:164:LEU:HD23	2:P:164:LEU:C	2.34	0.48
2:P:568:GLY:O	2:P:574:VAL:HA	2.13	0.48
2:P:636:ARG:HD2	2:P:638:GLU:HB2	1.94	0.48
2:Q:353:ARG:HA	2:Q:358:LEU:HB3	1.95	0.48
2:Q:803:GLY:HA2	2:Q:827:LYS:HZ1	1.79	0.48
2:R:42:VAL:HG21	2:R:92:SER:OG	2.13	0.48
2:R:425:MET:HG3	2:R:477:ASN:CB	2.35	0.48
2:R:470:SER:O	2:R:476:ARG:NE	2.47	0.48
2:S:128:ARG:CB	2:S:131:LYS:NZ	2.77	0.48
2:S:312:THR:OG1	2:S:315:GLN:HG3	2.12	0.48
2:S:351:ALA:O	2:S:417:LEU:HD12	2.14	0.48
2:S:358:LEU:O	2:S:359:ARG:CG	2.61	0.48
2:S:394:THR:O	2:S:395:SER:HB2	2.13	0.48
1:A:534:ILE:HG21	1:A:692:VAL:HG11	1.95	0.48
1:B:351:ARG:NH1	1:B:352:TYR:CZ	2.81	0.48
1:C:735:ILE:N	1:C:738:ASP:OD2	2.38	0.48
1:D:26:ASP:OD1	1:D:26:ASP:N	2.46	0.48
1:D:303:LEU:HB3	1:D:753:PHE:CE1	2.48	0.48
1:D:471:ASN:HB3	1:D:474:HIS:HD2	1.77	0.48
1:E:265:SER:O	1:E:269:GLU:OE1	2.31	0.48
1:E:515:ASP:HA	1:E:518:ARG:HG2	1.94	0.48
1:E:598:VAL:HG22	1:E:603:LEU:HD12	1.95	0.48
1:F:695:LYS:HD3	1:F:695:LYS:N	2.28	0.48
1:F:730:LEU:HD23	1:F:772:PHE:CD2	2.47	0.48
1:F:778:ASP:O	1:F:782:LYS:HG2	2.12	0.48
1:G:784:ALA:O	1:G:785:GLU:C	2.50	0.48
1:H:214:ILE:HG21	1:H:295:TYR:HB2	1.94	0.48
1:I:70:VAL:HG13	1:I:71:ALA:N	2.29	0.48
1:I:111:ILE:HD13	1:I:128:PHE:CE1	2.48	0.48
1:I:781:ARG:HB3	1:I:781:ARG:CZ	2.44	0.48
1:J:418:LEU:HB2	1:J:463:ILE:HD13	1.95	0.48
1:J:554:GLU:OE1	1:J:669:ARG:HD3	2.14	0.48
1:L:113:CYS:HA	1:L:277:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:788:GLU:OE1	1:L:788:GLU:HA	2.13	0.48
2:M:313:MET:HE2	2:M:316:LEU:HD12	1.95	0.48
2:M:431:ARG:HA	2:M:431:ARG:NE	2.29	0.48
2:M:737:VAL:HG22	2:M:789:GLU:HB2	1.92	0.48
2:M:866:LYS:HD3	2:M:866:LYS:N	2.29	0.48
2:N:83:THR:O	2:N:86:ILE:HG12	2.12	0.48
2:N:505:CYS:HB3	2:N:738:TRP:CD1	2.49	0.48
2:N:839:HIS:N	2:N:840:PRO:CD	2.76	0.48
2:N:866:LYS:HA	2:N:866:LYS:CE	2.42	0.48
2:O:85:PHE:O	2:O:88:SER:OG	2.25	0.48
2:O:245:LYS:HG2	2:O:245:LYS:O	2.13	0.48
2:O:261:ILE:O	2:O:265:GLN:HG3	2.14	0.48
2:O:330:VAL:O	2:O:341:ALA:HB1	2.12	0.48
2:O:389:LYS:HD2	2:O:416:LEU:HD12	1.94	0.48
2:O:553:ARG:NH1	2:O:655:CYS:HB2	2.29	0.48
2:O:607:SER:HA	2:O:625:LEU:HB2	1.95	0.48
2:O:761:GLU:HA	2:O:770:ASN:HD22	1.78	0.48
2:P:382:VAL:C	2:P:383:LEU:HD22	2.34	0.48
2:P:514:PHE:CE1	2:P:558:VAL:HG23	2.48	0.48
2:P:779:VAL:O	2:P:782:PHE:HB3	2.13	0.48
2:Q:127:ALA:O	2:Q:130:ASN:HB3	2.14	0.48
2:Q:536:VAL:HG22	2:Q:541:VAL:HG11	1.94	0.48
2:Q:645:ALA:HA	2:Q:648:LYS:HE2	1.96	0.48
2:Q:822:LYS:O	2:Q:826:GLU:OE1	2.32	0.48
2:R:241:PHE:HB3	2:R:246:LEU:HD11	1.94	0.48
2:R:608:LEU:HD22	2:R:618:ASP:CG	2.34	0.48
2:R:617:MET:SD	2:R:617:MET:N	2.87	0.48
2:R:861:ILE:HD11	2:R:895:LEU:HD13	1.94	0.48
2:S:755:ARG:HB3	2:S:769:SER:HB2	1.95	0.48
1:A:92:LEU:HD23	1:A:134:PRO:HB3	1.96	0.48
1:C:116:VAL:HG12	1:C:117:PHE:CD1	2.48	0.48
1:C:287:GLY:C	1:C:290:ARG:NH1	2.67	0.48
1:C:723:HIS:CD2	1:C:727:TRP:CZ3	3.01	0.48
1:D:2:GLU:HG2	1:D:3:ARG:N	2.28	0.48
1:D:199:LEU:HD12	1:D:207:ARG:CZ	2.42	0.48
1:E:98:TRP:CH2	1:E:132:LEU:HB2	2.48	0.48
1:E:633:TRP:CE3	1:E:636:GLU:OE1	2.66	0.48
1:E:689:GLN:O	1:E:693:MET:HG2	2.13	0.48
1:H:377:TYR:CZ	1:H:381:LEU:HD21	2.49	0.48
1:H:601:THR:O	1:H:605:GLN:OE1	2.32	0.48
1:I:67:LEU:HD12	1:I:67:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:302:TYR:HA	1:I:305:LEU:HD12	1.95	0.48
1:I:587:LEU:O	1:I:591:VAL:HG12	2.12	0.48
1:J:150:GLU:OE2	1:J:152:HIS:N	2.37	0.48
1:J:424:LYS:HD2	1:J:471:ASN:O	2.14	0.48
1:J:654:LYS:O	1:J:658:GLN:OE1	2.32	0.48
1:K:718:ASN:ND2	1:K:720:SER:OG	2.47	0.48
1:L:12:LEU:HD22	1:L:301:GLN:OE1	2.13	0.48
1:L:348:SER:OG	1:L:350:VAL:O	2.15	0.48
1:L:647:THR:HG23	1:L:648:GLY:N	2.28	0.48
2:M:467:ARG:HD2	2:M:469:GLN:HB2	1.96	0.48
2:M:610:THR:OG1	2:M:618:ASP:OD1	2.18	0.48
2:N:40:GLN:HA	2:N:43:GLU:OE2	2.12	0.48
2:N:538:TYR:CZ	2:N:553:ARG:NH1	2.81	0.48
2:N:719:ASN:HD21	2:N:843:PHE:HE2	1.61	0.48
2:O:49:ILE:HD13	2:O:104:ILE:CG1	2.43	0.48
2:O:149:GLN:O	2:O:206:ARG:NH2	2.47	0.48
2:O:257:TYR:HA	2:O:260:LEU:HD12	1.96	0.48
2:O:313:MET:HA	2:O:316:LEU:CD1	2.33	0.48
2:O:415:ASN:O	2:O:418:ARG:HD3	2.14	0.48
2:O:744:ASN:CG	2:O:809:ASN:HB3	2.33	0.48
2:P:38:ARG:NH2	2:P:39:ASP:OD1	2.46	0.48
2:P:83:THR:HA	2:P:86:ILE:CG1	2.42	0.48
2:P:218:ILE:HG12	2:P:247:VAL:O	2.13	0.48
2:P:415:ASN:HB3	2:P:488:GLU:HG2	1.96	0.48
2:P:502:LEU:HB3	2:P:550:TRP:CE3	2.48	0.48
2:P:757:TYR:HD2	2:P:931:THR:HG22	1.78	0.48
2:P:765:MET:CE	2:P:767:SER:H	2.27	0.48
2:Q:111:ASP:HB3	2:Q:114:LYS:HB3	1.95	0.48
2:Q:308:ILE:O	2:Q:308:ILE:HG23	2.14	0.48
2:Q:917:LEU:HD12	2:Q:917:LEU:N	2.29	0.48
2:R:638:GLU:O	2:R:642:ILE:HG13	2.14	0.48
2:R:638:GLU:HG3	2:R:641:ALA:H	1.78	0.48
2:R:760:ALA:HB1	2:R:769:SER:H	1.77	0.48
2:S:41:LEU:HD21	2:S:308:ILE:HG12	1.96	0.48
2:S:286:ARG:HH12	2:S:289:MET:HB2	1.79	0.48
2:S:573:MET:HE2	2:S:575:GLN:HG3	1.95	0.48
2:S:752:HIS:CE1	2:S:773:LYS:HZ2	2.31	0.48
2:S:894:TYR:CD2	2:S:910:PHE:HE2	2.32	0.48
2:S:894:TYR:O	2:S:897:LYS:HG2	2.13	0.48
1:A:90:ILE:N	1:A:133:TYR:O	2.42	0.48
1:B:20:LEU:HD13	1:B:290:ARG:CD	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:592:PHE:CG	1:B:655:LEU:HD11	2.49	0.48
1:B:794:ARG:HH22	1:B:798:VAL:HG12	1.79	0.48
1:C:775:SER:OG	1:C:778:ASP:OD2	2.26	0.48
1:F:131:PRO:HD2	1:F:133:TYR:OH	2.14	0.48
1:H:176:LEU:HD23	1:H:177:ARG:NH2	2.29	0.48
1:H:559:ASP:O	1:H:563:ILE:HG12	2.14	0.48
1:I:432:ALA:O	1:I:666:ARG:NH1	2.46	0.48
1:J:81:ILE:HG23	1:J:114:HIS:HD2	1.77	0.48
1:K:112:ALA:O	1:K:116:VAL:HG23	2.13	0.48
2:M:227:PHE:CE2	2:N:268:ASN:HB3	2.48	0.48
2:M:379:LEU:O	2:M:382:VAL:HG12	2.14	0.48
2:M:467:ARG:O	2:M:469:GLN:N	2.47	0.48
2:M:505:CYS:HB3	2:M:738:TRP:CB	2.44	0.48
2:N:215:ALA:O	2:N:216:ILE:HD13	2.13	0.48
2:N:261:ILE:HG13	2:N:262:ARG:N	2.29	0.48
2:N:363:ASP:O	2:N:366:MET:HG3	2.12	0.48
2:N:737:VAL:HG12	2:N:789:GLU:CB	2.41	0.48
2:O:366:MET:CG	2:O:467:ARG:HH21	2.26	0.48
2:O:507:SER:OG	2:O:539:MET:HE1	2.13	0.48
2:O:649:VAL:HG13	2:O:650:ILE:N	2.29	0.48
2:O:733:LEU:CD1	2:O:793:TYR:HB2	2.43	0.48
2:O:819:LYS:CG	2:O:870:LYS:HZ3	2.26	0.48
2:O:872:THR:O	2:O:876:LYS:NZ	2.36	0.48
2:P:150:LYS:HG2	2:P:154:GLN:HE22	1.79	0.48
2:P:169:ASP:OD1	2:P:169:ASP:N	2.46	0.48
2:P:526:GLU:HA	2:P:529:GLU:HG3	1.96	0.48
2:P:539:MET:HE2	2:P:539:MET:HA	1.95	0.48
2:Q:151:GLU:CA	2:Q:154:GLN:HG3	2.42	0.48
2:Q:152:GLN:HB3	2:Q:206:ARG:NH1	2.29	0.48
2:Q:741:PHE:CE1	2:Q:782:PHE:HD1	2.31	0.48
2:Q:748:VAL:CG1	2:Q:811:VAL:HG22	2.44	0.48
2:R:156:HIS:CE1	2:R:206:ARG:HG3	2.49	0.48
2:R:365:ASP:O	2:R:369:ASN:OD1	2.31	0.48
2:R:745:LEU:O	2:R:748:VAL:HG12	2.14	0.48
2:S:133:VAL:HG13	2:S:210:ILE:HD13	1.95	0.48
2:S:135:ASP:OD1	2:S:136:LYS:N	2.45	0.48
2:S:473:GLU:CA	2:S:476:ARG:HE	2.16	0.48
2:S:745:LEU:HA	2:S:748:VAL:CG2	2.43	0.48
1:B:151:THR:HA	1:B:354:GLU:HG2	1.96	0.48
1:B:505:HIS:HD2	1:B:507:ILE:HB	1.78	0.48
1:C:516:ALA:HA	1:C:520:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:30:GLU:OE2	1:F:34:PHE:CE2	2.66	0.48
1:F:55:TYR:OH	1:G:673:VAL:O	2.18	0.48
1:F:245:ILE:O	1:F:252:TYR:N	2.41	0.48
1:F:723:HIS:CD2	1:F:727:TRP:CZ3	3.02	0.48
1:G:218:LEU:HA	1:G:221:VAL:HG12	1.95	0.48
1:H:81:ILE:HD13	1:H:132:LEU:HD13	1.96	0.48
1:J:591:VAL:HG13	1:J:592:PHE:N	2.27	0.48
1:K:397:ILE:HA	1:K:400:VAL:HG22	1.95	0.48
1:L:494:HIS:ND1	1:L:795:PHE:CD1	2.79	0.48
2:M:117:ARG:HD3	2:M:117:ARG:N	2.29	0.48
2:M:268:ASN:HA	2:S:228:ASP:OD2	2.13	0.48
2:M:423:GLY:HA3	2:N:307:ARG:HH21	1.78	0.48
2:M:444:ASP:OD1	2:M:544:ILE:HD11	2.13	0.48
2:M:761:GLU:O	2:M:762:HIS:HB2	2.12	0.48
2:N:41:LEU:O	2:N:45:ILE:CD1	2.60	0.48
2:N:511:PHE:HA	2:N:515:VAL:HG23	1.93	0.48
2:N:864:SER:HB3	2:N:867:ALA:HB3	1.95	0.48
2:O:153:TRP:O	2:O:157:LEU:CD1	2.62	0.48
2:O:342:ILE:O	2:O:347:ALA:HB2	2.13	0.48
2:O:412:SER:OG	2:O:491:GLN:NE2	2.44	0.48
2:O:490:CYS:SG	2:O:500:MET:SD	3.07	0.48
2:O:571:LEU:HG	2:O:745:LEU:HB3	1.94	0.48
2:O:607:SER:CA	2:O:625:LEU:HB2	2.43	0.48
2:O:858:ILE:HD11	2:O:915:THR:HG22	1.94	0.48
2:P:71:VAL:HG13	2:P:248:VAL:CG1	2.44	0.48
2:P:344:VAL:HG23	2:P:345:ARG:N	2.29	0.48
2:P:459:ASP:O	2:P:460:PHE:HB2	2.14	0.48
2:P:560:ASN:O	2:P:561:SER:HB2	2.13	0.48
2:P:588:TYR:CE1	2:P:761:GLU:HB3	2.48	0.48
2:P:752:HIS:CG	2:P:755:ARG:HH11	2.32	0.48
2:Q:466:LEU:HD13	2:Q:482:LEU:CB	2.43	0.48
2:R:467:ARG:CD	2:R:468:PRO:HD2	2.43	0.48
2:R:569:VAL:HG12	2:R:753:LYS:NZ	2.29	0.48
2:R:764:ARG:O	2:R:863:CYS:N	2.40	0.48
2:S:41:LEU:HD22	2:S:308:ILE:HG12	1.95	0.48
2:S:152:GLN:O	2:S:155:ASN:HB2	2.13	0.48
2:S:425:MET:HG3	2:S:477:ASN:ND2	2.28	0.48
1:B:234:MET:SD	1:B:240:LEU:HD21	2.53	0.48
1:B:506:LEU:HD23	1:B:685:VAL:HG11	1.96	0.48
1:C:270:PHE:O	1:C:274:THR:HG23	2.13	0.48
1:E:554:GLU:HG2	1:E:555:THR:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:723:HIS:CD2	1:G:727:TRP:CZ3	3.02	0.48
1:H:356:ARG:HB3	1:H:421:HIS:NE2	2.28	0.48
1:J:356:ARG:HB3	1:J:421:HIS:NE2	2.28	0.48
1:J:465:GLY:HA2	1:J:494:HIS:O	2.13	0.48
1:J:663:ASP:OD2	1:J:664:ASN:N	2.47	0.48
2:M:113:THR:HB	2:M:225:THR:OG1	2.14	0.48
2:M:160:LEU:CD1	2:M:196:LEU:HD11	2.42	0.48
2:M:329:LYS:HZ3	2:M:343:ASP:HA	1.78	0.48
2:M:356:LEU:HD12	2:M:358:LEU:CD1	2.44	0.48
2:M:373:LYS:HD2	2:M:373:LYS:C	2.34	0.48
2:M:549:HIS:O	2:M:552:ASN:OD1	2.32	0.48
2:N:111:ASP:OD2	2:N:114:LYS:HB2	2.13	0.48
2:N:237:ILE:HA	2:N:241:PHE:CG	2.49	0.48
2:N:303:PRO:HG2	2:N:306:LYS:HZ1	1.78	0.48
2:N:425:MET:HG3	2:N:428:ASN:HB2	1.96	0.48
2:N:603:ALA:HB1	2:N:854:PHE:HE1	1.78	0.48
2:O:178:SER:CA	2:O:181:LEU:HG	2.44	0.48
2:O:311:LYS:HZ3	2:O:325:LYS:HE2	1.78	0.48
2:O:332:THR:HB	2:O:336:MET:HE3	1.96	0.48
2:O:737:VAL:N	2:O:789:GLU:HG2	2.29	0.48
2:O:744:ASN:O	2:O:748:VAL:HG13	2.13	0.48
2:O:760:ALA:HB1	2:O:769:SER:H	1.79	0.48
2:P:110:ILE:HG21	2:P:220:PHE:CD1	2.49	0.48
2:P:470:SER:HB3	2:P:475:LEU:HD22	1.96	0.48
2:P:787:LEU:HD12	2:P:839:HIS:CD2	2.49	0.48
2:P:815:ASP:CA	2:P:870:LYS:HE2	2.38	0.48
2:Q:447:CYS:SG	2:Q:500:MET:HE1	2.54	0.48
2:Q:544:ILE:CD1	2:Q:553:ARG:HH22	2.17	0.48
2:Q:568:GLY:O	2:Q:574:VAL:HA	2.13	0.48
2:Q:790:GLU:OE2	2:Q:841:LEU:HB2	2.13	0.48
2:Q:864:SER:HB3	2:Q:867:ALA:CB	2.44	0.48
2:R:121:ILE:HD13	2:R:236:SER:OG	2.14	0.48
2:R:304:VAL:HA	2:R:307:ARG:HD3	1.95	0.48
2:R:426:LEU:HA	2:R:429:ILE:CG2	2.41	0.48
2:R:731:ALA:HA	2:R:734:ILE:HD12	1.96	0.48
2:R:852:HIS:HB2	2:R:853:PRO:HD3	1.96	0.48
2:S:201:GLU:HA	2:S:204:VAL:HG22	1.96	0.48
2:S:260:LEU:O	2:S:264:LYS:HE2	2.14	0.48
2:S:332:THR:HB	2:S:336:MET:CE	2.34	0.48
2:S:539:MET:HG3	2:S:541:VAL:H	1.77	0.48
2:S:925:ALA:HB3	2:S:927:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:222:ALA:O	1:C:279:LYS:NZ	2.38	0.48
1:C:554:GLU:OE1	1:C:669:ARG:NE	2.32	0.48
1:D:451:ASP:OD2	1:D:452:MET:N	2.46	0.48
1:E:14:ARG:HB2	1:E:28:ARG:CZ	2.43	0.48
1:F:289:GLU:OE1	1:F:289:GLU:HA	2.14	0.48
1:G:63:ARG:O	1:G:63:ARG:HD3	2.14	0.48
1:G:510:ILE:HG23	1:G:692:VAL:HG21	1.96	0.48
1:H:161:ALA:HB1	1:H:303:LEU:HD11	1.95	0.48
1:H:209:GLN:NE2	1:H:242:ASN:O	2.47	0.48
1:H:650:LYS:CG	1:H:651:ARG:N	2.73	0.48
1:I:165:TRP:CE2	1:I:299:GLN:OE1	2.67	0.48
1:I:465:GLY:N	1:I:493:ALA:O	2.46	0.48
1:K:97:GLU:O	1:K:100:THR:OG1	2.27	0.48
1:K:162:GLU:OE1	1:K:754:ALA:N	2.47	0.48
1:K:597:GLU:O	1:K:651:ARG:NH2	2.47	0.48
1:L:369:LEU:O	1:L:373:VAL:HG13	2.14	0.48
2:M:41:LEU:O	2:M:41:LEU:HD23	2.13	0.48
2:N:111:ASP:HB3	2:N:221:ASP:OD2	2.14	0.48
2:N:237:ILE:O	2:N:241:PHE:HB2	2.14	0.48
2:N:524:ASP:OD2	2:N:526:GLU:HB3	2.14	0.48
2:N:572:GLY:HA3	2:N:745:LEU:HD13	1.95	0.48
2:N:788:VAL:O	2:N:792:LEU:CD1	2.60	0.48
2:O:374:GLN:O	2:O:379:LEU:HD23	2.14	0.48
2:O:386:PHE:HD1	2:O:417:LEU:HA	1.79	0.48
2:O:450:ILE:O	2:O:454:VAL:HG22	2.14	0.48
2:O:580:SER:HB3	2:O:590:LYS:HB3	1.95	0.48
2:O:799:ARG:NH1	2:O:827:LYS:HD3	2.27	0.48
2:P:756:LEU:HD23	2:P:769:SER:C	2.34	0.48
2:P:852:HIS:HD2	2:P:855:ILE:HD11	1.79	0.48
2:Q:348:ILE:HG21	2:Q:368:VAL:HG13	1.95	0.48
2:Q:515:VAL:O	2:Q:515:VAL:HG12	2.13	0.48
2:Q:603:ALA:CB	2:Q:850:ILE:HG23	2.44	0.48
2:R:771:ALA:HB1	2:R:917:LEU:HD11	1.96	0.48
2:S:443:MET:CG	2:S:489:ASN:HB3	2.43	0.48
2:S:704:THR:HG23	2:S:705:GLU:N	2.28	0.48
2:S:810:PRO:CD	2:S:816:GLU:HB2	2.44	0.48
1:A:55:TYR:O	1:A:58:GLN:N	2.46	0.47
1:A:228:PRO:O	1:A:231:ILE:HG22	2.14	0.47
1:A:360:LYS:HB2	1:A:366:MET:SD	2.54	0.47
1:B:220:ARG:NH1	1:B:228:PRO:HD2	2.28	0.47
1:B:581:ALA:HB1	1:B:600:ILE:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:680:LEU:HD23	1:B:680:LEU:H	1.79	0.47
1:C:74:ARG:CZ	1:C:117:PHE:HB2	2.43	0.47
1:D:768:LEU:O	1:D:772:PHE:HB2	2.13	0.47
1:E:73:LEU:HD12	1:E:110:ILE:HA	1.94	0.47
1:E:693:MET:SD	1:E:741:MET:HE2	2.53	0.47
1:F:339:LYS:O	1:F:342:HIS:O	2.32	0.47
1:F:365:LYS:O	1:F:369:LEU:HD13	2.14	0.47
1:F:511:ARG:HG3	1:F:512:SER:N	2.29	0.47
1:G:40:GLN:OE1	1:G:41:ALA:N	2.47	0.47
1:H:579:ASP:O	1:H:582:ILE:N	2.47	0.47
1:I:108:LEU:O	1:I:111:ILE:HG12	2.14	0.47
1:I:111:ILE:HG13	1:I:112:ALA:N	2.29	0.47
1:J:534:ILE:HG21	1:J:692:VAL:HG11	1.94	0.47
1:K:76:ILE:HG23	1:K:80:PHE:CD2	2.49	0.47
1:K:187:GLU:O	1:K:191:LEU:HD13	2.13	0.47
1:K:400:VAL:O	1:K:404:LEU:HD13	2.14	0.47
1:K:665:VAL:O	1:K:669:ARG:HG3	2.14	0.47
1:L:145:ARG:NH1	1:L:146:GLU:OE2	2.46	0.47
1:L:546:PRO:O	1:L:677:LEU:HD12	2.14	0.47
2:M:131:LYS:NZ	2:N:180:ALA:O	2.47	0.47
2:M:226:GLN:NE2	2:N:268:ASN:OD1	2.44	0.47
2:M:256:LEU:CA	2:M:259:GLN:OE1	2.59	0.47
2:M:352:VAL:HG11	2:M:368:VAL:HG12	1.96	0.47
2:M:764:ARG:NH2	2:M:768:GLN:HE22	2.11	0.47
2:N:86:ILE:HG13	2:N:87:ASN:N	2.28	0.47
2:N:235:GLU:CG	2:N:239:LYS:HZ1	2.26	0.47
2:N:293:LEU:HA	2:N:296:GLN:HE21	1.79	0.47
2:N:430:TYR:HD2	2:N:431:ARG:HD2	1.79	0.47
2:N:658:PRO:HB2	2:N:660:TRP:CH2	2.49	0.47
2:O:468:PRO:HG3	2:O:480:ILE:CG1	2.36	0.47
2:O:473:GLU:HA	2:O:476:ARG:HB3	1.96	0.47
2:O:554:CYS:HB3	2:O:623:PHE:CE2	2.48	0.47
2:P:41:LEU:CD2	2:P:89:VAL:HG11	2.44	0.47
2:P:282:ARG:HH21	2:P:285:GLU:HG2	1.79	0.47
2:P:293:LEU:CA	2:P:296:GLN:HG3	2.42	0.47
2:P:336:MET:SD	2:P:341:ALA:HA	2.53	0.47
2:P:460:PHE:HB3	2:P:512:ASN:HD21	1.74	0.47
2:P:727:ILE:HG12	2:P:729:PRO:HD3	1.95	0.47
2:P:770:ASN:OD1	2:P:773:LYS:HB3	2.14	0.47
2:Q:440:ARG:O	2:Q:445:SER:OG	2.29	0.47
2:Q:465:TYR:OH	2:Q:736:LYS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:612:ALA:HB2	2:Q:654:THR:CG2	2.25	0.47
2:R:358:LEU:O	2:R:359:ARG:HB2	2.14	0.47
2:R:437:GLU:HG3	2:R:440:ARG:CD	2.43	0.47
2:R:775:MET:HB3	2:R:854:PHE:CE2	2.49	0.47
2:S:370:GLU:O	2:S:370:GLU:HG3	2.14	0.47
2:S:377:ARG:O	2:S:380:MET:HG2	2.14	0.47
2:S:417:LEU:O	2:S:421:LEU:HD13	2.14	0.47
1:A:140:GLU:O	1:A:143:ILE:HG22	2.14	0.47
1:A:651:ARG:NH1	1:I:597:GLU:OE1	2.47	0.47
1:B:505:HIS:O	1:B:508:SER:HB2	2.14	0.47
1:C:133:TYR:HH	1:C:759:SER:HG	1.58	0.47
1:C:557:LEU:HB2	1:C:587:LEU:HD23	1.96	0.47
1:C:723:HIS:CD2	1:C:727:TRP:CH2	3.02	0.47
1:D:392:GLU:O	1:D:393:LYS:HE2	2.13	0.47
1:E:93:PRO:HB3	1:E:770:ARG:CZ	2.44	0.47
1:E:160:SER:HB2	1:E:754:ALA:HA	1.97	0.47
1:F:203:ILE:HG22	1:F:203:ILE:O	2.14	0.47
1:G:165:TRP:CZ2	1:G:299:GLN:HG2	2.50	0.47
1:G:537:THR:HG22	1:G:726:ARG:HH11	1.78	0.47
1:I:80:PHE:HB2	1:I:81:ILE:HD12	1.96	0.47
1:K:286:GLU:O	1:K:289:GLU:HG2	2.14	0.47
1:K:360:LYS:HB3	1:K:365:LYS:HE2	1.95	0.47
1:K:370:LEU:HD23	1:K:397:ILE:HD13	1.96	0.47
1:L:651:ARG:O	1:L:655:LEU:HD13	2.14	0.47
2:M:120:PRO:CG	2:M:123:VAL:CG2	2.91	0.47
2:M:199:ILE:HD12	2:M:199:ILE:H	1.79	0.47
2:M:814:VAL:CG2	2:M:817:PHE:HB3	2.45	0.47
2:N:37:LEU:CD1	2:N:310:LEU:HA	2.43	0.47
2:N:218:ILE:HG13	2:N:218:ILE:O	2.14	0.47
2:N:218:ILE:HD12	2:N:220:PHE:CZ	2.49	0.47
2:N:448:LYS:HE3	2:N:542:GLY:HA3	1.95	0.47
2:N:460:PHE:HB3	2:N:512:ASN:HD21	1.78	0.47
2:N:644:ASN:CG	2:N:648:LYS:HZ3	2.17	0.47
2:O:354:GLU:O	2:O:413:VAL:HB	2.15	0.47
2:O:446:LEU:HD11	2:O:450:ILE:HD11	1.96	0.47
2:O:460:PHE:HA	2:O:508:VAL:HG13	1.96	0.47
2:O:771:ALA:CB	2:O:917:LEU:HD11	2.44	0.47
2:O:776:ARG:HD3	2:O:860:GLY:HA3	1.96	0.47
2:P:118:HIS:O	2:Q:172:TYR:HD1	1.97	0.47
2:P:377:ARG:CA	2:P:380:MET:HG2	2.41	0.47
2:P:490:CYS:HB3	2:P:729:PRO:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:560:ASN:HD21	2:P:661:SER:CA	2.27	0.47
2:P:596:GLU:HG3	2:P:597:ASN:N	2.29	0.47
2:P:822:LYS:O	2:P:826:GLU:HG3	2.13	0.47
2:Q:758:ARG:HG2	2:Q:927:TYR:O	2.14	0.47
2:R:137:LEU:HB3	2:R:150:LYS:HE2	1.95	0.47
2:R:568:GLY:O	2:R:574:VAL:HG13	2.13	0.47
2:R:780:LEU:HD11	2:R:814:VAL:HG13	1.96	0.47
2:S:452:THR:HA	2:S:455:LYS:HZ1	1.76	0.47
2:S:734:ILE:O	2:S:737:VAL:HG22	2.13	0.47
2:S:755:ARG:NH2	2:S:757:TYR:OH	2.46	0.47
2:S:843:PHE:O	2:S:846:ILE:HG22	2.14	0.47
2:S:879:ASP:CG	2:S:885:LYS:HA	2.34	0.47
1:A:739:VAL:O	1:A:741:MET:SD	2.72	0.47
1:D:96:SER:HA	1:D:99:GLN:OE1	2.14	0.47
1:D:494:HIS:HB3	1:D:795:PHE:CZ	2.49	0.47
1:D:781:ARG:O	1:D:785:GLU:OE1	2.33	0.47
1:F:424:LYS:HD2	1:F:471:ASN:O	2.14	0.47
1:G:83:ASN:OD1	1:G:84:GLU:N	2.48	0.47
1:G:88:PRO:HG3	1:G:115:GLN:OE1	2.14	0.47
1:H:273:LEU:HA	1:H:276:LEU:HD12	1.94	0.47
1:H:538:PRO:HB2	1:H:682:ASP:OD1	2.15	0.47
1:H:728:MET:HE3	1:H:782:LYS:HD3	1.96	0.47
1:I:591:VAL:HG23	1:I:668:GLN:HB3	1.95	0.47
1:K:723:HIS:CD2	1:K:727:TRP:HZ3	2.32	0.47
1:L:2:GLU:OE2	1:L:72:ILE:HG12	2.13	0.47
1:L:690:GLN:NE2	1:L:737:GLY:C	2.67	0.47
2:M:105:LYS:NZ	2:M:211:LEU:O	2.47	0.47
2:M:117:ARG:HG2	2:M:118:HIS:CD2	2.50	0.47
2:M:467:ARG:HG2	2:M:468:PRO:CD	2.44	0.47
2:N:220:PHE:HE2	2:N:248:VAL:HG13	1.79	0.47
2:N:558:VAL:O	2:N:562:PRO:HD3	2.14	0.47
2:N:802:ILE:CD1	2:N:824:ILE:HD11	2.43	0.47
2:O:358:LEU:HD21	2:O:367:TYR:CD1	2.49	0.47
2:O:745:LEU:HA	2:O:748:VAL:HG22	1.96	0.47
2:O:764:ARG:HA	2:O:863:CYS:SG	2.53	0.47
2:P:256:LEU:HA	2:P:259:GLN:HE21	1.75	0.47
2:P:421:LEU:CD2	2:P:481:TYR:HA	2.44	0.47
2:P:497:PHE:CZ	2:P:501:LEU:HD21	2.49	0.47
2:P:502:LEU:HD12	2:P:550:TRP:CZ3	2.48	0.47
2:P:559:ALA:C	2:P:562:PRO:HD2	2.34	0.47
2:Q:71:VAL:HG11	2:Q:302:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:131:LYS:HE3	2:R:190:SER:HA	1.97	0.47
2:Q:589:LYS:N	2:Q:919:SER:O	2.47	0.47
2:Q:595:THR:CB	2:Q:916:SER:HG	2.25	0.47
2:Q:758:ARG:NH1	2:Q:928:ASP:O	2.37	0.47
2:R:225:THR:O	2:S:297:TYR:OH	2.30	0.47
2:R:351:ALA:HA	2:R:386:PHE:CZ	2.49	0.47
2:R:554:CYS:O	2:R:558:VAL:HG23	2.13	0.47
2:R:610:THR:CB	2:R:652:GLN:HE21	2.27	0.47
2:R:771:ALA:HB3	2:R:917:LEU:HD11	1.96	0.47
2:S:211:LEU:O	2:S:212:ASP:HB2	2.14	0.47
2:S:219:THR:HG23	2:S:249:VAL:CG2	2.44	0.47
2:S:279:GLU:OE1	2:S:279:GLU:N	2.47	0.47
2:S:355:GLY:HA3	2:S:417:LEU:HD13	1.96	0.47
2:S:445:SER:HA	2:S:448:LYS:HZ3	1.75	0.47
2:S:588:TYR:O	2:S:589:LYS:HE2	2.15	0.47
2:S:741:PHE:CE1	2:S:745:LEU:HD21	2.49	0.47
1:A:44:LEU:HD11	1:A:48:VAL:HG11	1.95	0.47
1:B:165:TRP:HB2	1:B:303:LEU:HD21	1.95	0.47
1:B:195:ILE:HG23	1:B:196:ASP:N	2.30	0.47
1:B:728:MET:O	1:B:782:LYS:NZ	2.43	0.47
1:B:778:ASP:O	1:B:781:ARG:HG2	2.14	0.47
1:C:31:SER:O	1:C:35:LEU:HD13	2.14	0.47
1:D:722:HIS:HB3	1:D:724:ILE:HG22	1.97	0.47
1:F:400:VAL:HG12	1:F:404:LEU:HD13	1.95	0.47
1:G:527:ARG:NH2	1:G:704:GLU:OE2	2.41	0.47
1:G:560:LEU:HD21	1:G:679:TYR:HH	1.80	0.47
1:H:25:LEU:HD13	1:H:28:ARG:HE	1.80	0.47
1:I:95:PHE:CD1	1:I:134:PRO:CG	2.98	0.47
1:I:356:ARG:HD2	1:I:467:ASP:OD2	2.14	0.47
1:I:651:ARG:HA	1:I:654:LYS:HZ3	1.80	0.47
1:J:7:ASN:ND2	1:J:105:VAL:HG13	2.30	0.47
1:J:756:ASP:OD1	1:J:757:LEU:N	2.47	0.47
1:L:14:ARG:HB2	1:L:28:ARG:HH21	1.78	0.47
1:L:423:ILE:HG23	1:L:470:ALA:HB2	1.96	0.47
2:M:105:LYS:HZ3	2:M:213:CYS:HB3	1.79	0.47
2:M:110:ILE:HG21	2:M:220:PHE:CE1	2.50	0.47
2:M:295:GLN:HE22	2:S:428:ASN:ND2	2.12	0.47
2:M:564:ASP:O	2:M:564:ASP:OD1	2.32	0.47
2:M:636:ARG:CG	2:M:638:GLU:HB3	2.43	0.47
2:M:790:GLU:HG2	2:M:839:HIS:HA	1.95	0.47
2:N:206:ARG:O	2:N:210:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:254:LEU:CD2	2:N:257:TYR:HD2	2.25	0.47
2:N:297:TYR:O	2:N:300:LYS:HG2	2.15	0.47
2:N:511:PHE:HD1	2:N:535:TYR:CD1	2.32	0.47
2:N:538:TYR:CD2	2:N:658:PRO:HB3	2.49	0.47
2:N:610:THR:OG1	2:N:652:GLN:OE1	2.31	0.47
2:N:810:PRO:CG	2:N:817:PHE:H	2.28	0.47
2:O:205:LYS:HA	2:O:245:LYS:HZ2	1.76	0.47
2:O:232:ASP:HA	2:O:235:GLU:CD	2.34	0.47
2:O:241:PHE:CD1	2:O:246:LEU:HD23	2.46	0.47
2:O:575:GLN:HG2	2:O:923:VAL:HG11	1.92	0.47
2:O:608:LEU:HD11	2:O:618:ASP:OD2	2.14	0.47
2:O:819:LYS:HZ3	2:O:870:LYS:HE2	1.80	0.47
2:P:105:LYS:NZ	2:P:211:LEU:O	2.38	0.47
2:P:256:LEU:HA	2:P:259:GLN:HE22	1.77	0.47
2:P:376:VAL:HA	2:P:379:LEU:HD21	1.96	0.47
2:P:872:THR:HG22	2:P:892:TRP:NE1	2.26	0.47
2:P:893:ASP:OD1	2:P:894:TYR:N	2.47	0.47
2:Q:35:LYS:HZ3	2:Q:38:ARG:NH2	2.12	0.47
2:Q:107:LEU:HD13	2:Q:218:ILE:HG13	1.95	0.47
2:Q:358:LEU:CD2	2:Q:364:ALA:HB2	2.44	0.47
2:Q:367:TYR:OH	2:Q:467:ARG:HA	2.14	0.47
2:Q:390:LYS:HZ1	2:Q:413:VAL:HA	1.76	0.47
2:Q:465:TYR:HE2	2:Q:736:LYS:N	2.13	0.47
2:Q:560:ASN:OD1	2:Q:658:PRO:HD2	2.14	0.47
2:Q:561:SER:HB3	2:Q:562:PRO:CD	2.44	0.47
2:Q:584:MET:HE1	2:Q:589:LYS:CA	2.13	0.47
2:Q:656:ILE:HD11	2:R:743:PHE:CZ	2.49	0.47
2:Q:843:PHE:O	2:Q:846:ILE:HG12	2.15	0.47
2:R:113:THR:HG22	2:R:226:GLN:CB	2.45	0.47
2:R:230:GLY:O	2:R:234:LEU:CD1	2.63	0.47
2:R:639:ARG:HD3	2:R:714:GLU:CG	2.37	0.47
2:R:714:GLU:OE1	2:R:714:GLU:HA	2.15	0.47
2:R:759:ASN:ND2	2:R:930:ASP:HB3	2.28	0.47
2:R:772:ALA:HA	2:R:917:LEU:CD2	2.41	0.47
2:R:828:LEU:HD21	2:R:838:THR:HG23	1.96	0.47
2:R:894:TYR:CA	2:R:897:LYS:HG2	2.39	0.47
2:S:150:LYS:CG	2:S:151:GLU:N	2.78	0.47
2:S:234:LEU:CB	2:S:238:ARG:HH22	2.24	0.47
2:S:366:MET:SD	2:S:367:TYR:N	2.88	0.47
1:A:133:TYR:HH	1:A:756:ASP:HB3	1.80	0.47
1:C:23:VAL:HG12	1:C:24:SER:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:535:GLY:HA2	1:E:727:TRP:CH2	2.48	0.47
1:F:246:LEU:HD11	1:F:249:GLY:H	1.80	0.47
1:F:420:PRO:CG	1:F:466:VAL:HG12	2.44	0.47
1:G:159:THR:HG22	1:G:337:ARG:HD2	1.97	0.47
1:H:342:HIS:NE2	1:H:345:GLY:O	2.44	0.47
1:I:71:ALA:O	1:I:75:LEU:HG	2.14	0.47
1:I:177:ARG:CD	1:I:181:LYS:HZ1	2.28	0.47
1:J:34:PHE:O	1:J:37:GLN:HG3	2.14	0.47
1:J:165:TRP:NE1	1:J:169:LEU:HD11	2.28	0.47
1:K:54:SER:HA	1:K:57:VAL:HG22	1.95	0.47
1:K:81:ILE:HD13	1:K:132:LEU:HD21	1.96	0.47
1:K:295:TYR:CE2	1:K:299:GLN:NE2	2.82	0.47
1:K:522:LEU:O	1:K:523:ARG:NH2	2.47	0.47
1:L:220:ARG:NE	1:L:220:ARG:HA	2.28	0.47
2:M:81:GLY:O	2:M:85:PHE:HD1	1.97	0.47
2:M:191:ILE:O	2:S:128:ARG:HD3	2.15	0.47
2:M:437:GLU:OE1	2:M:437:GLU:N	2.33	0.47
2:M:464:PHE:O	2:M:466:LEU:HD23	2.14	0.47
2:M:524:ASP:O	2:M:525:ARG:HD2	2.14	0.47
2:M:772:ALA:HA	2:M:917:LEU:CD2	2.36	0.47
2:N:35:LYS:CE	2:N:38:ARG:HH21	2.28	0.47
2:N:245:LYS:HD3	2:N:245:LYS:N	2.29	0.47
2:N:563:ASN:HA	2:N:566:LYS:HD2	1.97	0.47
2:O:314:LEU:HD13	2:O:372:LEU:HD12	1.97	0.47
2:O:498:LEU:O	2:O:502:LEU:HD23	2.13	0.47
2:P:102:VAL:HA	2:P:214:LYS:NZ	2.28	0.47
2:P:154:GLN:HA	2:P:157:LEU:HB2	1.94	0.47
2:P:246:LEU:HD12	2:P:246:LEU:O	2.15	0.47
2:P:359:ARG:HD2	2:P:793:TYR:O	2.14	0.47
2:P:457:ASP:HB2	2:P:475:LEU:HD11	1.96	0.47
2:P:801:TYR:CE1	2:P:833:LYS:HG3	2.48	0.47
2:Q:110:ILE:N	2:Q:128:ARG:HH22	2.13	0.47
2:Q:195:ASP:CB	2:Q:198:GLU:HG3	2.41	0.47
2:Q:348:ILE:CG2	2:Q:371:LEU:HD13	2.45	0.47
2:Q:600:ALA:HB2	2:Q:913:THR:N	2.29	0.47
2:R:105:LYS:NZ	2:R:211:LEU:HD12	2.20	0.47
2:R:136:LYS:HE2	2:R:211:LEU:CD2	2.38	0.47
2:R:297:TYR:O	2:R:300:LYS:HG2	2.15	0.47
2:R:344:VAL:HG23	2:R:345:ARG:N	2.29	0.47
2:R:348:ILE:CG2	2:R:368:VAL:HG13	2.45	0.47
2:R:736:LYS:HZ3	2:R:740:ARG:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:806:LEU:HD23	2:R:806:LEU:H	1.79	0.47
2:S:44:SER:HA	2:S:47:ASN:OD1	2.15	0.47
2:S:130:ASN:CA	2:S:153:TRP:HH2	2.19	0.47
2:S:318:GLY:O	2:S:345:ARG:NE	2.47	0.47
2:S:376:VAL:HA	2:S:379:LEU:CD2	2.44	0.47
2:S:519:ALA:HA	2:S:527:LYS:HZ2	1.77	0.47
2:S:646:PHE:CE1	2:S:650:ILE:HD11	2.50	0.47
2:S:657:VAL:CG1	2:S:658:PRO:HD2	2.43	0.47
1:A:69:PRO:CG	1:A:292:LEU:HD22	2.43	0.47
1:A:199:LEU:O	1:A:200:THR:OG1	2.29	0.47
1:A:377:TYR:OH	1:A:414:VAL:O	2.26	0.47
1:A:702:ALA:O	1:A:703:ILE:HD13	2.13	0.47
1:B:445:GLN:O	1:B:449:LEU:HD23	2.15	0.47
1:C:26:ASP:OD1	1:C:27:GLU:OE1	2.33	0.47
1:C:686:VAL:HG12	1:C:690:GLN:OE1	2.15	0.47
1:F:206:ASP:O	1:F:210:ILE:HG13	2.13	0.47
1:G:10:VAL:HG12	1:G:14:ARG:HD2	1.97	0.47
1:I:450:MET:HE1	1:I:486:VAL:HG22	1.96	0.47
1:I:579:ASP:O	1:I:582:ILE:N	2.47	0.47
1:J:564:TRP:CZ3	1:J:600:ILE:HD12	2.49	0.47
1:J:588:ALA:HA	1:J:591:VAL:HG12	1.97	0.47
1:J:791:ARG:HA	1:J:794:ARG:HG3	1.97	0.47
1:K:46:ASP:O	1:K:46:ASP:OD1	2.33	0.47
2:M:377:ARG:HA	2:M:380:MET:CE	2.45	0.47
2:M:469:GLN:HE22	2:S:543:ARG:CG	2.27	0.47
2:M:605:ALA:HB3	2:M:650:ILE:HB	1.96	0.47
2:N:42:VAL:O	2:N:46:ARG:HG3	2.14	0.47
2:N:196:LEU:HA	2:N:199:ILE:HD12	1.94	0.47
2:N:311:LYS:HG2	2:N:316:LEU:HD23	1.96	0.47
2:N:727:ILE:HG13	2:N:840:PRO:CG	2.45	0.47
2:N:874:PHE:CE1	2:N:878:ILE:HD11	2.50	0.47
2:O:377:ARG:HA	2:O:380:MET:HG2	1.95	0.47
2:O:547:ALA:N	2:O:631:ASP:OD1	2.47	0.47
2:O:748:VAL:HG12	2:O:811:VAL:CG1	2.42	0.47
2:O:839:HIS:N	2:O:840:PRO:CD	2.76	0.47
2:P:172:TYR:HE2	2:P:176:TYR:HB2	1.78	0.47
2:P:293:LEU:C	2:P:296:GLN:HE21	2.17	0.47
2:P:353:ARG:HG3	2:P:359:ARG:O	2.15	0.47
2:P:843:PHE:HE1	2:P:881:ILE:O	1.97	0.47
2:Q:103:ASN:ND2	2:Q:212:ASP:O	2.48	0.47
2:Q:109:THR:C	2:Q:128:ARG:HH22	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:423:GLY:HA3	2:R:307:ARG:CZ	2.44	0.47
2:Q:740:ARG:NE	2:Q:809:ASN:OD1	2.47	0.47
2:R:127:ALA:HB1	2:S:193:GLY:HA2	1.96	0.47
2:R:304:VAL:O	2:R:307:ARG:HG3	2.14	0.47
2:R:353:ARG:HE	2:R:360:GLU:HA	1.79	0.47
2:R:544:ILE:O	2:R:544:ILE:HG13	2.14	0.47
2:R:657:VAL:HG11	2:R:661:SER:OG	2.14	0.47
2:R:719:ASN:O	2:R:723:ILE:HG22	2.13	0.47
2:S:83:THR:O	2:S:86:ILE:HG12	2.13	0.47
2:S:448:LYS:CB	2:S:542:GLY:HA3	2.42	0.47
2:S:602:ALA:HB1	2:S:650:ILE:CD1	2.44	0.47
2:S:835:TRP:HA	2:S:838:THR:O	2.15	0.47
1:A:69:PRO:HG3	1:A:293:TRP:HD1	1.80	0.47
1:A:304:THR:O	1:A:305:LEU:C	2.53	0.47
1:B:7:ASN:ND2	1:B:104:ARG:O	2.43	0.47
1:B:165:TRP:CZ3	1:B:299:GLN:HA	2.50	0.47
1:B:499:VAL:O	1:B:531:CYS:N	2.44	0.47
1:C:464:ARG:HG2	1:C:795:PHE:O	2.14	0.47
1:C:493:ALA:HB1	1:C:523:ARG:HH22	1.80	0.47
1:C:508:SER:O	1:C:511:ARG:HG3	2.15	0.47
1:C:618:GLY:C	1:C:619:LEU:HD12	2.35	0.47
1:C:663:ASP:OD1	1:C:667:LYS:NZ	2.45	0.47
1:C:788:GLU:O	1:C:792:ILE:HG13	2.14	0.47
1:D:148:LEU:HD13	1:D:757:LEU:HG	1.97	0.47
1:D:389:TRP:O	1:D:391:HIS:N	2.47	0.47
1:D:677:LEU:HD23	1:D:678:GLU:N	2.30	0.47
1:E:12:LEU:HD11	1:E:298:ILE:HG13	1.97	0.47
1:E:85:LYS:CG	1:E:86:GLY:H	2.28	0.47
1:E:200:THR:HG21	1:E:202:ARG:NH1	2.29	0.47
1:E:369:LEU:O	1:E:373:VAL:HG23	2.15	0.47
1:E:377:TYR:OH	1:E:415:GLU:HA	2.14	0.47
1:E:431:GLU:OE1	1:E:436:ALA:N	2.45	0.47
1:E:500:GLY:O	1:E:533:ALA:N	2.48	0.47
1:E:510:ILE:HG22	1:E:562:PHE:CZ	2.50	0.47
1:E:696:MET:HB2	1:E:741:MET:SD	2.54	0.47
1:E:779:ALA:O	1:E:783:VAL:HG23	2.14	0.47
1:G:83:ASN:HA	1:G:88:PRO:HA	1.97	0.47
1:G:136:HIS:HB3	1:G:139:VAL:HG22	1.95	0.47
1:G:158:SER:HB2	1:G:337:ARG:NH1	2.29	0.47
1:G:511:ARG:CD	1:G:559:ASP:HA	2.45	0.47
1:H:507:ILE:HG23	1:H:563:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:535:GLY:HA3	1:H:727:TRP:CH2	2.50	0.47
1:I:297:LEU:O	1:I:301:GLN:HG2	2.15	0.47
1:I:684:ALA:O	1:I:688:LEU:HD23	2.14	0.47
1:J:151:THR:OG1	1:J:745:LEU:O	2.32	0.47
1:J:176:LEU:HD11	1:J:180:GLU:OE2	2.14	0.47
1:J:658:GLN:O	1:J:662:SER:N	2.42	0.47
1:K:408:GLU:HG3	1:K:409:PRO:HD2	1.96	0.47
1:L:186:GLN:O	1:L:189:LYS:N	2.47	0.47
1:L:333:SER:O	1:L:336:SER:OG	2.24	0.47
1:L:651:ARG:HG3	1:L:655:LEU:HD13	1.97	0.47
1:L:689:GLN:O	1:L:693:MET:SD	2.73	0.47
2:M:297:TYR:O	2:M:301:LEU:HG	2.14	0.47
2:M:446:LEU:HD11	2:M:450:ILE:HD11	1.96	0.47
2:M:462:THR:O	2:M:465:TYR:HB2	2.14	0.47
2:M:509:SER:OG	2:M:738:TRP:NE1	2.41	0.47
2:M:621:SER:OG	2:M:624:ASN:HB2	2.15	0.47
2:M:745:LEU:HA	2:M:748:VAL:CG2	2.42	0.47
2:M:818:GLU:HA	2:M:821:ILE:HD11	1.96	0.47
2:N:237:ILE:CA	2:N:241:PHE:HB2	2.35	0.47
2:N:331:LYS:HB3	2:N:336:MET:CG	2.45	0.47
2:N:367:TYR:CE1	2:N:468:PRO:HD3	2.50	0.47
2:N:453:TYR:HE1	2:N:478:CYS:HB2	1.80	0.47
2:N:541:VAL:C	2:N:543:ARG:H	2.17	0.47
2:N:586:GLU:OE2	2:N:758:ARG:HG2	2.15	0.47
2:N:616:LEU:HB2	2:O:750:ASP:OD2	2.14	0.47
2:N:755:ARG:HB2	2:N:769:SER:CB	2.44	0.47
2:N:823:ILE:O	2:N:827:LYS:HD3	2.14	0.47
2:N:828:LEU:CG	2:N:833:LYS:HD2	2.31	0.47
2:O:266:TYR:OH	2:P:276:GLN:CB	2.61	0.47
2:O:429:ILE:HG23	2:O:430:TYR:N	2.30	0.47
2:O:446:LEU:HD23	2:O:500:MET:HE1	1.95	0.47
2:O:497:PHE:CE1	2:O:734:ILE:HG12	2.49	0.47
2:O:573:MET:HB3	2:O:621:SER:CB	2.44	0.47
2:O:856:PHE:HE2	2:O:878:ILE:CD1	2.28	0.47
2:P:73:PHE:CE1	2:P:257:TYR:HE2	2.33	0.47
2:P:116:PRO:CG	2:Q:166:LEU:HD13	2.45	0.47
2:P:159:GLN:HA	2:P:162:ARG:HH12	1.78	0.47
2:P:293:LEU:CA	2:P:296:GLN:HE21	2.28	0.47
2:P:366:MET:HG3	2:P:367:TYR:CD1	2.48	0.47
2:P:426:LEU:HA	2:P:429:ILE:HG22	1.96	0.47
2:P:497:PHE:CD2	2:P:501:LEU:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:737:VAL:N	2:P:789:GLU:HG2	2.29	0.47
2:P:784:HIS:HA	2:P:817:PHE:HE1	1.78	0.47
2:P:790:GLU:OE2	2:P:840:PRO:HD2	2.15	0.47
2:P:798:ASP:OD2	2:P:799:ARG:HG3	2.15	0.47
2:P:855:ILE:HG22	2:P:856:PHE:CE2	2.50	0.47
2:Q:446:LEU:HD11	2:Q:450:ILE:HD11	1.97	0.47
2:Q:493:SER:CB	2:Q:496:LYS:HB2	2.43	0.47
2:Q:748:VAL:HG12	2:Q:811:VAL:CB	2.44	0.47
2:Q:757:TYR:H	2:Q:760:ALA:CB	2.27	0.47
2:R:71:VAL:HG22	2:R:248:VAL:CG2	2.45	0.47
2:R:129:LEU:O	2:R:133:VAL:HG23	2.14	0.47
2:R:137:LEU:CB	2:R:150:LYS:HZ3	2.27	0.47
2:R:300:LYS:HG3	2:R:301:LEU:HD23	1.95	0.47
2:R:437:GLU:CG	2:R:440:ARG:HB2	2.45	0.47
2:R:438:GLN:HA	2:R:441:PHE:CZ	2.50	0.47
2:R:443:MET:HE2	2:R:489:ASN:C	2.35	0.47
2:R:501:LEU:HD13	2:R:734:ILE:HG23	1.96	0.47
2:R:592:ASN:ND2	2:R:594:ASP:HB2	2.28	0.47
2:R:744:ASN:O	2:R:747:ASN:OD1	2.33	0.47
2:R:752:HIS:CE1	2:R:811:VAL:HG12	2.50	0.47
2:R:866:LYS:O	2:R:869:ASN:OD1	2.32	0.47
2:S:181:LEU:O	2:S:182:LYS:HD3	2.14	0.47
2:S:286:ARG:HA	2:S:286:ARG:HH11	1.71	0.47
2:S:448:LYS:CD	2:S:542:GLY:HA3	2.45	0.47
2:S:535:TYR:CE2	2:S:539:MET:HE1	2.49	0.47
2:S:723:ILE:O	2:S:723:ILE:HG13	2.15	0.47
2:S:739:SER:HB2	2:S:743:PHE:CE2	2.50	0.47
1:B:552:THR:OG1	1:B:555:THR:HG23	2.14	0.47
1:C:664:ASN:HA	1:C:667:LYS:HZ3	1.80	0.47
1:F:216:GLU:O	1:F:220:ARG:HG3	2.15	0.47
1:H:55:TYR:CE2	1:I:674:GLU:HG2	2.50	0.47
1:H:216:GLU:OE2	1:H:254:PHE:CB	2.63	0.47
1:H:540:ILE:O	1:H:540:ILE:HG23	2.15	0.47
1:I:30:GLU:HG2	1:I:34:PHE:CE2	2.47	0.47
1:J:71:ALA:O	1:J:75:LEU:HD13	2.14	0.47
1:J:656:TYR:CZ	1:J:660:LEU:HD11	2.50	0.47
1:J:788:GLU:HB3	1:J:791:ARG:NH1	2.30	0.47
1:K:743:ILE:HD12	1:K:743:ILE:N	2.29	0.47
1:K:783:VAL:O	1:K:786:VAL:HG12	2.14	0.47
2:M:149:GLN:HA	2:M:152:GLN:NE2	2.29	0.47
2:M:199:ILE:O	2:M:203:LEU:HG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:277:GLU:HA	2:M:279:GLU:OE1	2.14	0.47
2:M:332:THR:HB	2:M:342:ILE:HD12	1.96	0.47
2:M:424:SER:HB3	2:M:425:MET:SD	2.55	0.47
2:M:574:VAL:CG1	2:M:922:ILE:HG12	2.44	0.47
2:M:716:TRP:CE2	2:M:848:CYS:HA	2.49	0.47
2:M:743:PHE:HE1	2:S:654:THR:HG21	1.75	0.47
2:N:169:ASP:OD1	2:N:170:LYS:N	2.48	0.47
2:N:566:LYS:HE3	2:N:566:LYS:CA	2.44	0.47
2:O:231:TRP:CD1	2:O:264:LYS:HG3	2.50	0.47
2:O:376:VAL:O	2:O:380:MET:HG2	2.15	0.47
2:O:502:LEU:HD12	2:O:623:PHE:CE1	2.50	0.47
2:P:115:LEU:HD12	2:P:116:PRO:O	2.14	0.47
2:P:490:CYS:CB	2:P:729:PRO:HB2	2.44	0.47
2:P:762:HIS:C	2:P:859:GLY:HA2	2.35	0.47
2:Q:344:VAL:HG23	2:Q:345:ARG:N	2.30	0.47
2:Q:376:VAL:HG23	2:Q:380:MET:HE1	1.95	0.47
2:Q:593:ILE:HG12	2:Q:601:LYS:HZ1	1.78	0.47
2:R:180:ALA:HA	2:R:194:GLN:CD	2.34	0.47
2:R:338:ASP:OD1	2:R:338:ASP:O	2.33	0.47
2:R:527:LYS:O	2:R:531:LEU:HG	2.14	0.47
2:R:790:GLU:OE1	2:R:842:PHE:N	2.38	0.47
2:S:629:ILE:HD11	2:S:850:ILE:HB	1.96	0.47
2:S:741:PHE:CE2	2:S:745:LEU:HD11	2.50	0.47
1:A:581:ALA:O	1:A:585:VAL:HG23	2.15	0.47
1:B:153:GLN:HE22	1:B:353:LEU:HD11	1.80	0.47
1:B:741:MET:CB	1:B:743:ILE:HD11	2.45	0.47
1:C:139:VAL:HG13	1:C:761:PHE:CE2	2.48	0.47
1:C:601:THR:O	1:C:605:GLN:OE1	2.33	0.47
1:C:747:SER:HB3	1:C:757:LEU:HB2	1.97	0.47
1:D:204:PHE:CE2	1:D:208:LEU:HD11	2.50	0.47
1:D:210:ILE:O	1:D:214:ILE:HG12	2.15	0.47
1:D:653:LEU:O	1:D:657:LYS:HG2	2.15	0.47
1:E:52:ALA:O	1:E:56:LEU:HD13	2.14	0.47
1:F:45:PRO:O	1:F:47:HIS:CE1	2.67	0.47
1:F:354:GLU:N	1:F:354:GLU:OE1	2.48	0.47
1:G:542:LYS:HZ3	1:G:678:GLU:CD	2.13	0.47
1:G:599:SER:OG	1:H:597:GLU:OE2	2.33	0.47
1:H:220:ARG:O	1:H:225:VAL:HG22	2.15	0.47
1:H:633:TRP:HB3	1:H:637:TYR:CZ	2.50	0.47
1:J:431:GLU:OE2	1:J:435:HIS:N	2.42	0.47
1:L:354:GLU:OE2	1:L:527:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:86:ILE:HD11	2:M:251:THR:HG21	1.96	0.47
2:M:192:GLY:HA3	2:S:131:LYS:HZ2	1.79	0.47
2:M:359:ARG:HG2	2:M:360:GLU:N	2.30	0.47
2:M:589:LYS:N	2:M:919:SER:O	2.38	0.47
2:M:824:ILE:O	2:M:828:LEU:HD13	2.15	0.47
2:N:107:LEU:O	2:N:107:LEU:HD12	2.15	0.47
2:N:131:LYS:HE3	2:O:192:GLY:N	2.30	0.47
2:N:440:ARG:NH2	2:O:473:GLU:HB3	2.30	0.47
2:N:494:LEU:HD22	2:N:633:SER:HB2	1.96	0.47
2:N:599:LEU:HD21	2:N:849:PRO:O	2.15	0.47
2:N:707:SER:HA	2:N:710:ILE:CD1	2.44	0.47
2:N:715:GLN:HA	2:N:718:LYS:NZ	2.18	0.47
2:O:234:LEU:HA	2:O:237:ILE:HD12	1.97	0.47
2:O:352:VAL:HB	2:O:356:LEU:HD12	1.97	0.47
2:O:511:PHE:HB2	2:O:535:TYR:CE2	2.49	0.47
2:O:588:TYR:CE1	2:O:761:GLU:HB3	2.50	0.47
2:O:712:LYS:HE2	2:O:712:LYS:HA	1.96	0.47
2:O:741:PHE:O	2:O:745:LEU:HG	2.15	0.47
2:P:41:LEU:O	2:P:45:ILE:CD1	2.57	0.47
2:P:44:SER:HA	2:P:47:ASN:OD1	2.15	0.47
2:P:494:LEU:HG	2:P:841:LEU:HD23	1.97	0.47
2:P:526:GLU:HA	2:P:529:GLU:CG	2.45	0.47
2:P:597:ASN:ND2	2:P:911:GLN:HG2	2.30	0.47
2:P:741:PHE:CE1	2:P:782:PHE:HB2	2.50	0.47
2:Q:75:ASP:HA	2:Q:252:GLY:O	2.15	0.47
2:Q:166:LEU:HB2	2:Q:196:LEU:CD1	2.45	0.47
2:Q:609:SER:HB2	2:Q:619:PHE:HB2	1.97	0.47
2:Q:737:VAL:HA	2:Q:789:GLU:OE1	2.15	0.47
2:R:241:PHE:HB3	2:R:246:LEU:HD13	1.96	0.47
2:R:279:GLU:N	2:R:279:GLU:OE1	2.48	0.47
2:R:326:GLU:O	2:R:326:GLU:HG3	2.14	0.47
2:R:333:GLU:O	2:R:336:MET:HB2	2.15	0.47
2:R:613:SER:CB	2:R:657:VAL:HG23	2.44	0.47
2:S:712:LYS:CG	2:S:849:PRO:HB3	2.39	0.47
2:S:764:ARG:HA	2:S:863:CYS:SG	2.55	0.47
1:A:494:HIS:CD2	1:A:795:PHE:CD1	3.02	0.47
1:B:739:VAL:CG1	1:B:740:PRO:HD2	2.45	0.47
1:C:61:LYS:HD2	1:C:62:GLN:N	2.30	0.47
1:C:356:ARG:NH2	1:C:704:GLU:OE2	2.48	0.47
1:D:289:GLU:HG2	1:D:293:TRP:CZ3	2.49	0.47
1:E:517:LEU:HD22	1:E:696:MET:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:537:THR:OG1	1:E:540:ILE:HG22	2.16	0.47
1:E:556:ARG:NE	1:E:587:LEU:CD2	2.78	0.47
1:F:513:ILE:O	1:F:517:LEU:HD13	2.15	0.47
1:F:612:LEU:HD11	1:F:656:TYR:HE2	1.80	0.47
1:F:722:HIS:ND1	1:F:724:ILE:HG22	2.31	0.47
1:G:150:GLU:OE2	1:G:152:HIS:N	2.48	0.47
1:G:417:ALA:HB2	1:G:796:HIS:CG	2.50	0.47
1:G:511:ARG:CZ	1:G:559:ASP:OD1	2.63	0.47
1:G:739:VAL:O	1:G:741:MET:SD	2.73	0.47
1:H:380:TYR:OH	1:H:414:VAL:HG23	2.15	0.47
1:H:567:LEU:HD23	1:H:570:HIS:ND1	2.29	0.47
1:I:374:LEU:HB3	1:I:400:VAL:HG11	1.96	0.47
1:J:351:ARG:CZ	1:J:413:CYS:O	2.62	0.47
1:L:149:HIS:CE1	1:L:351:ARG:HD2	2.49	0.47
2:M:107:LEU:HD21	2:M:129:LEU:CD2	2.38	0.47
2:M:377:ARG:HA	2:M:380:MET:CG	2.44	0.47
2:M:434:LEU:HD21	2:M:452:THR:OG1	2.15	0.47
2:M:713:VAL:O	2:M:717:LEU:HD13	2.15	0.47
2:N:165:HIS:CD2	2:N:166:LEU:HD12	2.50	0.47
2:N:202:GLU:CG	2:N:205:LYS:HZ2	2.27	0.47
2:N:266:TYR:CB	2:O:276:GLN:HE22	2.28	0.47
2:N:436:TYR:CE1	2:O:255:ARG:HG2	2.50	0.47
2:N:498:LEU:HD12	2:N:630:ALA:HA	1.97	0.47
2:O:378:LEU:HD11	2:O:425:MET:CE	2.45	0.47
2:O:492:GLY:HA2	2:O:727:ILE:HG22	1.97	0.47
2:O:530:GLN:HG2	2:P:525:ARG:HH22	1.76	0.47
2:O:790:GLU:HG3	2:O:791:SER:N	2.30	0.47
2:P:429:ILE:HG23	2:P:430:TYR:N	2.30	0.47
2:P:494:LEU:HB2	2:P:724:GLU:CB	2.45	0.47
2:P:757:TYR:H	2:P:760:ALA:HB2	1.79	0.47
2:P:851:LEU:HD23	2:P:855:ILE:HG12	1.97	0.47
2:Q:422:TYR:HD1	2:Q:481:TYR:OH	1.97	0.47
2:Q:632:ILE:O	2:Q:717:LEU:HD21	2.15	0.47
2:Q:716:TRP:CE3	2:Q:849:PRO:HD2	2.50	0.47
2:R:284:ALA:O	2:R:288:TYR:CD2	2.68	0.47
2:R:492:GLY:HA2	2:R:727:ILE:HG12	1.96	0.47
2:R:587:GLY:HA2	2:R:589:LYS:NZ	2.30	0.47
2:S:85:PHE:CD2	2:S:310:LEU:HD11	2.50	0.47
2:S:153:TRP:HB2	2:S:206:ARG:NH2	2.30	0.47
2:S:263:GLY:O	2:S:266:TYR:HB2	2.15	0.47
2:S:356:LEU:HD23	2:S:484:SER:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:547:ALA:HB1	2:S:627:GLY:HA2	1.97	0.47
2:S:872:THR:HG22	2:S:892:TRP:NE1	2.28	0.47
1:A:55:TYR:CE2	1:L:672:TYR:HB3	2.50	0.46
1:B:450:MET:O	1:B:454:LYS:HG2	2.15	0.46
1:C:536:ILE:O	1:C:536:ILE:HG23	2.16	0.46
1:D:295:TYR:CE2	1:D:299:GLN:NE2	2.84	0.46
1:D:299:GLN:O	1:D:303:LEU:HG	2.14	0.46
1:D:464:ARG:HB3	1:D:795:PHE:O	2.15	0.46
1:D:522:LEU:O	1:D:523:ARG:NH2	2.48	0.46
1:D:722:HIS:ND1	1:D:724:ILE:HG22	2.31	0.46
1:F:296:LEU:O	1:F:299:GLN:HB3	2.15	0.46
1:F:307:VAL:HG11	1:F:753:PHE:HE1	1.80	0.46
1:G:303:LEU:HB3	1:G:753:PHE:CE1	2.50	0.46
1:H:58:GLN:OE1	1:I:672:TYR:N	2.36	0.46
1:K:581:ALA:HB1	1:K:600:ILE:HD13	1.97	0.46
1:K:609:MET:SD	1:K:643:LEU:CD2	3.03	0.46
1:K:651:ARG:HB3	1:K:652:PRO:HD3	1.97	0.46
1:K:723:HIS:CD2	1:K:727:TRP:CZ3	3.03	0.46
2:M:86:ILE:O	2:M:90:VAL:HG23	2.15	0.46
2:M:121:ILE:HD11	2:M:232:ASP:CB	2.46	0.46
2:M:304:VAL:HG21	2:S:385:ASP:OD2	2.14	0.46
2:M:486:VAL:HG21	2:M:731:ALA:HB2	1.97	0.46
2:M:854:PHE:CD2	2:M:914:ILE:HD11	2.50	0.46
2:N:490:CYS:HB3	2:N:729:PRO:HG2	1.97	0.46
2:O:199:ILE:HD12	2:O:199:ILE:H	1.80	0.46
2:O:466:LEU:HD22	2:O:482:LEU:HB2	1.97	0.46
2:O:861:ILE:HG23	2:O:871:GLU:CG	2.45	0.46
2:O:875:ASN:HB3	2:O:876:LYS:HZ3	1.79	0.46
2:P:205:LYS:HE3	2:P:245:LYS:CD	2.44	0.46
2:P:612:ALA:HB3	2:P:655:CYS:O	2.15	0.46
2:Q:163:GLY:C	2:Q:196:LEU:HD21	2.34	0.46
2:Q:727:ILE:CG1	2:Q:729:PRO:HG3	2.45	0.46
2:Q:734:ILE:O	2:Q:737:VAL:HG22	2.15	0.46
2:R:137:LEU:HB2	2:R:150:LYS:HZ3	1.80	0.46
2:R:259:GLN:HA	2:R:262:ARG:CZ	2.45	0.46
2:R:274:LEU:HD22	2:R:286:ARG:CZ	2.46	0.46
2:R:287:GLY:O	2:R:291:GLU:HG2	2.16	0.46
2:R:293:LEU:O	2:R:296:GLN:HG3	2.15	0.46
2:R:305:GLN:HG2	2:R:306:LYS:N	2.29	0.46
2:S:85:PHE:HE2	2:S:310:LEU:HD21	1.78	0.46
2:S:121:ILE:O	2:S:125:VAL:HG23	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:446:LEU:CD1	2:S:486:VAL:HG12	2.32	0.46
1:B:289:GLU:O	1:B:293:TRP:CD1	2.68	0.46
1:B:717:ARG:NE	1:B:717:ARG:HA	2.30	0.46
1:C:14:ARG:O	1:C:18:VAL:HG22	2.15	0.46
1:C:54:SER:O	1:C:57:VAL:HG22	2.15	0.46
1:C:360:LYS:HZ2	1:C:369:LEU:HD22	1.79	0.46
1:E:334:TYR:CE2	1:E:373:VAL:HG22	2.50	0.46
1:H:262:ASP:OD1	1:H:264:TYR:N	2.45	0.46
1:I:152:HIS:CE1	1:I:356:ARG:HH12	2.33	0.46
1:J:34:PHE:O	1:J:37:GLN:NE2	2.47	0.46
1:K:408:GLU:OE1	1:L:346:VAL:HG11	2.16	0.46
1:L:359:PRO:HA	1:L:366:MET:SD	2.55	0.46
2:M:137:LEU:HD11	2:M:147:ARG:HG2	1.96	0.46
2:M:304:VAL:HA	2:M:307:ARG:NH1	2.30	0.46
2:M:312:THR:HG22	2:M:315:GLN:CD	2.35	0.46
2:M:482:LEU:CD2	2:M:485:GLN:NE2	2.77	0.46
2:M:504:GLY:O	2:M:508:VAL:HG23	2.15	0.46
2:M:511:PHE:HA	2:M:515:VAL:HG23	1.96	0.46
2:M:571:LEU:HD11	2:M:742:TYR:CE1	2.50	0.46
2:M:576:LEU:H	2:M:619:PHE:HA	1.81	0.46
2:N:83:THR:CA	2:N:86:ILE:HG12	2.44	0.46
2:N:154:GLN:HA	2:N:157:LEU:CD1	2.25	0.46
2:N:161:GLN:HB2	2:O:177:PHE:CE2	2.51	0.46
2:N:280:SER:C	2:N:283:LEU:HG	2.35	0.46
2:N:445:SER:O	2:N:448:LYS:HG2	2.15	0.46
2:N:467:ARG:CB	2:N:469:GLN:OE1	2.63	0.46
2:N:481:TYR:O	2:N:485:GLN:OE1	2.33	0.46
2:N:574:VAL:HG11	2:N:922:ILE:HG12	1.96	0.46
2:N:727:ILE:HG22	2:N:729:PRO:HG3	1.97	0.46
2:N:833:LYS:HE2	2:N:838:THR:N	2.30	0.46
2:O:73:PHE:O	2:O:308:ILE:HD12	2.15	0.46
2:O:311:LYS:HG2	2:O:316:LEU:HD23	1.97	0.46
2:O:719:ASN:HD21	2:O:843:PHE:HE2	1.62	0.46
2:O:782:PHE:HE2	2:O:845:LEU:HD22	1.80	0.46
2:P:200:PHE:HD2	2:P:203:LEU:HD12	1.80	0.46
2:P:227:PHE:HB3	2:P:256:LEU:HD11	1.97	0.46
2:P:720:VAL:O	2:P:724:GLU:HG2	2.16	0.46
2:Q:205:LYS:NZ	2:Q:245:LYS:HD3	2.30	0.46
2:Q:315:GLN:O	2:Q:325:LYS:HD2	2.16	0.46
2:Q:446:LEU:HD21	2:Q:486:VAL:HA	1.97	0.46
2:R:233:VAL:O	2:R:237:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:358:LEU:CD1	2:R:732:LEU:HD23	2.46	0.46
2:R:418:ARG:HH21	2:R:485:GLN:HE22	1.61	0.46
2:R:423:GLY:C	2:S:304:VAL:HG11	2.35	0.46
2:R:717:LEU:CA	2:R:720:VAL:HG22	2.42	0.46
2:R:733:LEU:CD1	2:R:793:TYR:HB2	2.15	0.46
2:R:741:PHE:CD2	2:R:782:PHE:HA	2.50	0.46
2:R:823:ILE:HA	2:R:826:GLU:CD	2.35	0.46
2:S:74:VAL:HA	2:S:308:ILE:HB	1.97	0.46
2:S:173:LYS:CD	2:S:174:PRO:HD2	2.45	0.46
2:S:217:LEU:HD13	2:S:247:VAL:HG22	1.95	0.46
2:S:311:LYS:HE3	2:S:315:GLN:CB	2.36	0.46
2:S:314:LEU:HA	2:S:317:VAL:HG12	1.96	0.46
2:S:453:TYR:CD1	2:S:475:LEU:HD22	2.50	0.46
2:S:477:ASN:OD1	2:S:478:CYS:N	2.48	0.46
2:S:826:GLU:OE2	2:S:827:LYS:HG3	2.15	0.46
1:A:295:TYR:CE2	1:A:299:GLN:NE2	2.83	0.46
1:A:422:PHE:HB2	1:A:468:ALA:HA	1.98	0.46
1:E:11:LEU:HD12	1:E:28:ARG:NH1	2.30	0.46
1:E:98:TRP:HD1	1:E:98:TRP:O	1.97	0.46
1:E:290:ARG:O	1:E:293:TRP:HB2	2.16	0.46
1:E:570:HIS:CE1	1:E:572:GLU:OE1	2.68	0.46
1:F:506:LEU:O	1:F:510:ILE:HG12	2.16	0.46
1:G:97:GLU:O	1:G:100:THR:OG1	2.29	0.46
1:G:646:THR:HB	1:G:649:MET:HE2	1.98	0.46
1:H:190:GLN:HG2	1:H:194:GLN:NE2	2.31	0.46
1:H:527:ARG:NH2	1:H:795:PHE:CE2	2.84	0.46
1:I:20:LEU:HD23	1:I:290:ARG:HD2	1.97	0.46
1:I:366:MET:SD	1:I:448:ILE:HG22	2.56	0.46
1:I:418:LEU:HD12	1:I:418:LEU:N	2.31	0.46
1:K:149:HIS:HE2	1:K:791:ARG:HE	1.62	0.46
1:K:158:SER:C	1:K:337:ARG:HH12	2.18	0.46
1:K:402:ASP:OD1	1:K:458:ARG:NH1	2.38	0.46
1:K:505:HIS:O	1:K:508:SER:HB2	2.15	0.46
1:L:105:VAL:HG12	1:L:106:SER:N	2.31	0.46
1:L:165:TRP:HB2	1:L:303:LEU:HD21	1.97	0.46
1:L:641:ARG:HA	1:L:644:VAL:HG22	1.98	0.46
1:L:649:MET:SD	1:L:649:MET:O	2.73	0.46
1:L:735:ILE:HG22	1:L:736:GLU:N	2.31	0.46
2:M:365:ASP:O	2:M:369:ASN:OD1	2.33	0.46
2:M:394:THR:O	2:M:395:SER:HB2	2.14	0.46
2:M:580:SER:HB3	2:M:590:LYS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:227:PHE:CE1	2:O:268:ASN:HB3	2.50	0.46
2:N:231:TRP:O	2:N:235:GLU:OE1	2.33	0.46
2:N:262:ARG:HG3	2:N:263:GLY:N	2.31	0.46
2:N:277:GLU:HG3	2:N:282:ARG:CD	2.45	0.46
2:N:296:GLN:C	2:N:299:LEU:HG	2.36	0.46
2:N:343:ASP:CG	2:N:344:VAL:H	2.19	0.46
2:N:446:LEU:HG	2:N:450:ILE:CD1	2.45	0.46
2:N:776:ARG:NH1	2:N:861:ILE:HA	2.30	0.46
2:N:856:PHE:HB3	2:N:861:ILE:CD1	2.42	0.46
2:O:152:GLN:CD	2:O:155:ASN:HD22	2.17	0.46
2:O:349:GLY:O	2:O:352:VAL:HG22	2.14	0.46
2:O:367:TYR:O	2:O:370:GLU:HG2	2.16	0.46
2:O:567:ILE:HB	2:O:753:LYS:CD	2.44	0.46
2:O:597:ASN:ND2	2:O:909:ILE:HG23	2.30	0.46
2:O:639:ARG:CZ	2:O:710:ILE:HG21	2.44	0.46
2:O:773:LYS:HA	2:O:776:ARG:CG	2.42	0.46
2:O:819:LYS:HZ3	2:O:870:LYS:CE	2.28	0.46
2:P:86:ILE:HG13	2:P:87:ASN:N	2.29	0.46
2:P:333:GLU:HB2	2:P:334:PRO:CD	2.45	0.46
2:P:421:LEU:HD23	2:P:481:TYR:HA	1.97	0.46
2:P:628:ALA:O	2:P:632:ILE:HG23	2.14	0.46
2:P:741:PHE:O	2:P:745:LEU:HD23	2.16	0.46
2:P:862:ASN:CB	2:P:867:ALA:HB1	2.45	0.46
2:Q:163:GLY:O	2:Q:196:LEU:HD11	2.16	0.46
2:Q:174:PRO:O	2:Q:177:PHE:N	2.42	0.46
2:Q:493:SER:HB2	2:Q:496:LYS:HG2	1.96	0.46
2:Q:571:LEU:HD23	2:Q:745:LEU:CB	2.39	0.46
2:Q:914:ILE:HD13	2:Q:917:LEU:HD22	1.95	0.46
2:R:110:ILE:CD1	2:R:219:THR:O	2.63	0.46
2:R:135:ASP:CA	2:R:138:LYS:NZ	2.79	0.46
2:R:208:CYS:SG	2:R:245:LYS:HD2	2.54	0.46
2:R:462:THR:O	2:R:465:TYR:HB2	2.16	0.46
2:R:745:LEU:CA	2:R:748:VAL:HG12	2.41	0.46
2:R:768:GLN:HG3	2:R:931:THR:HG21	1.98	0.46
2:R:786:VAL:CG1	2:R:845:LEU:HD12	2.31	0.46
2:S:173:LYS:HZ3	2:S:174:PRO:HG2	1.80	0.46
2:S:613:SER:O	2:S:614:ASN:HB2	2.16	0.46
1:C:553:LYS:HE3	1:C:673:VAL:HB	1.97	0.46
1:C:579:ASP:O	1:C:582:ILE:HG22	2.16	0.46
1:E:404:LEU:O	1:E:407:VAL:HG12	2.14	0.46
1:E:646:THR:HG21	1:E:649:MET:HE2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:357:PHE:CD1	1:F:418:LEU:HD11	2.51	0.46
1:G:560:LEU:HB3	1:G:584:ALA:HB2	1.98	0.46
1:H:210:ILE:O	1:H:214:ILE:HG12	2.16	0.46
1:H:722:HIS:ND1	1:H:724:ILE:HG12	2.30	0.46
1:I:149:HIS:CE1	1:I:351:ARG:HG2	2.51	0.46
1:J:481:CYS:SG	1:J:520:LEU:HD23	2.56	0.46
1:K:136:HIS:CE1	1:K:138:THR:HG23	2.50	0.46
1:K:362:ASP:HB3	1:K:365:LYS:HG2	1.98	0.46
2:M:149:GLN:CD	2:M:210:ILE:HG12	2.36	0.46
2:M:303:PRO:HG2	2:M:306:LYS:HD3	1.96	0.46
2:M:373:LYS:HE2	2:S:440:ARG:NH1	2.30	0.46
2:M:835:TRP:CG	2:M:881:ILE:HG23	2.50	0.46
2:N:160:LEU:HD22	2:N:203:LEU:HD11	1.97	0.46
2:N:266:TYR:HB3	2:O:276:GLN:HE22	1.81	0.46
2:N:613:SER:HB3	2:N:617:MET:HE2	1.98	0.46
2:N:727:ILE:HG12	2:N:841:LEU:HG	1.96	0.46
2:O:114:LYS:HZ3	2:P:238:ARG:HE	1.61	0.46
2:O:156:HIS:HD2	2:O:206:ARG:HD2	1.74	0.46
2:O:162:ARG:O	2:O:165:HIS:ND1	2.47	0.46
2:O:298:LEU:C	2:O:301:LEU:HG	2.35	0.46
2:O:343:ASP:CG	2:O:344:VAL:H	2.18	0.46
2:P:367:TYR:CD1	2:P:468:PRO:CD	2.98	0.46
2:P:561:SER:H	2:P:562:PRO:HD2	1.80	0.46
2:P:575:GLN:HG2	2:P:617:MET:HE3	1.97	0.46
2:P:651:ALA:HB1	2:Q:806:LEU:CD1	2.45	0.46
2:Q:352:VAL:HG23	2:Q:353:ARG:N	2.30	0.46
2:Q:787:LEU:HD13	2:Q:842:PHE:CE2	2.51	0.46
2:Q:802:ILE:HD11	2:Q:820:LYS:HB3	1.96	0.46
2:Q:885:LYS:NZ	2:Q:888:SER:HA	2.31	0.46
2:R:107:LEU:CD2	2:R:132:MET:HE1	2.46	0.46
2:R:131:LYS:HZ3	2:S:190:SER:HA	1.77	0.46
2:R:518:LEU:HD11	2:R:660:TRP:CE3	2.50	0.46
2:S:70:ASN:OD1	2:S:72:PHE:HE1	1.99	0.46
2:S:103:ASN:H	2:S:214:LYS:CE	2.28	0.46
2:S:110:ILE:HD13	2:S:219:THR:O	2.16	0.46
2:S:147:ARG:O	2:S:150:LYS:HG2	2.16	0.46
2:S:147:ARG:HH22	2:S:149:GLN:HE22	1.64	0.46
2:S:173:LYS:HD2	2:S:175:GLU:HB2	1.97	0.46
2:S:178:SER:O	2:S:181:LEU:N	2.44	0.46
2:S:201:GLU:O	2:S:204:VAL:HG22	2.15	0.46
2:S:468:PRO:HG3	2:S:480:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:503:VAL:HG11	2:S:544:ILE:HG21	1.97	0.46
2:S:576:LEU:CD1	2:S:920:SER:HB3	2.45	0.46
2:S:806:LEU:HD21	2:S:808:LEU:HD11	1.97	0.46
2:S:828:LEU:HB2	2:S:829:LYS:NZ	2.30	0.46
1:A:84:GLU:O	1:A:86:GLY:N	2.49	0.46
1:A:352:TYR:CE1	1:A:794:ARG:HD2	2.50	0.46
1:A:468:ALA:HB1	1:A:480:PHE:CE2	2.50	0.46
1:A:533:ALA:O	1:A:689:GLN:NE2	2.48	0.46
1:C:494:HIS:HB3	1:C:795:PHE:CD1	2.51	0.46
1:C:702:ALA:O	1:C:703:ILE:HD13	2.15	0.46
1:C:797:ASP:OD1	1:C:798:VAL:N	2.48	0.46
1:D:1:MET:N	1:D:2:GLU:OE1	2.49	0.46
1:D:336:SER:HA	1:D:339:LYS:HG2	1.97	0.46
1:E:579:ASP:O	1:E:582:ILE:N	2.49	0.46
1:G:600:ILE:HD12	1:G:603:LEU:HD12	1.97	0.46
1:H:34:PHE:O	1:H:37:GLN:HG3	2.16	0.46
1:H:225:VAL:C	1:H:226:GLU:HG3	2.36	0.46
1:I:567:LEU:HD21	1:I:688:LEU:HD22	1.96	0.46
1:J:510:ILE:CG2	1:J:692:VAL:HG21	2.42	0.46
1:J:523:ARG:N	1:J:526:ASP:OD2	2.41	0.46
1:K:282:PHE:CE2	2:S:148:LYS:HB2	2.50	0.46
1:K:505:HIS:O	1:K:508:SER:N	2.49	0.46
1:K:689:GLN:HE21	1:K:726:ARG:HH12	1.63	0.46
1:L:74:ARG:HG2	1:L:117:PHE:CD2	2.50	0.46
2:M:284:ALA:O	2:M:288:TYR:HD2	1.99	0.46
2:M:459:ASP:O	2:M:460:PHE:HB2	2.15	0.46
2:M:555:CYS:O	2:M:558:VAL:HG12	2.15	0.46
2:M:856:PHE:CD2	2:M:886:LEU:HD23	2.51	0.46
2:N:135:ASP:HA	2:N:138:LYS:HG2	1.98	0.46
2:N:501:LEU:O	2:N:505:CYS:HB2	2.15	0.46
2:N:657:VAL:HG11	2:N:661:SER:OG	2.16	0.46
2:N:657:VAL:CG1	2:N:658:PRO:HD2	2.41	0.46
2:N:783:LEU:HD11	2:N:845:LEU:HB3	1.97	0.46
2:O:296:GLN:HA	2:O:299:LEU:HD21	1.95	0.46
2:O:325:LYS:C	2:O:326:GLU:HG3	2.34	0.46
2:P:425:MET:HA	2:P:428:ASN:HD22	1.80	0.46
2:P:636:ARG:HD2	2:P:638:GLU:CB	2.46	0.46
2:Q:70:ASN:CG	2:Q:247:VAL:HG22	2.35	0.46
2:Q:150:LYS:HG3	2:Q:151:GLU:N	2.30	0.46
2:Q:218:ILE:HG22	2:Q:220:PHE:CE2	2.50	0.46
2:Q:376:VAL:CG2	2:Q:380:MET:HE1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:88:SER:CA	2:R:91:LYS:HD2	2.31	0.46
2:R:257:TYR:HA	2:R:260:LEU:HD21	1.98	0.46
2:R:467:ARG:HG3	2:R:469:GLN:CB	2.46	0.46
2:S:87:ASN:O	2:S:90:VAL:HB	2.15	0.46
2:S:127:ALA:O	2:S:130:ASN:HB3	2.16	0.46
2:S:151:GLU:OE1	2:S:151:GLU:N	2.29	0.46
2:S:488:GLU:O	2:S:491:GLN:NE2	2.34	0.46
2:S:596:GLU:HG3	2:S:604:MET:SD	2.56	0.46
2:S:713:VAL:O	2:S:717:LEU:HD13	2.15	0.46
2:S:856:PHE:CZ	2:S:878:ILE:HD12	2.51	0.46
1:A:286:GLU:O	1:A:289:GLU:HG3	2.16	0.46
1:A:619:LEU:HD12	1:A:660:LEU:HD23	1.97	0.46
1:B:659:TRP:HA	1:B:665:VAL:HG11	1.97	0.46
1:B:696:MET:HE1	1:B:741:MET:HA	1.96	0.46
1:B:718:ASN:OD1	1:B:721:GLU:OE1	2.33	0.46
1:D:35:LEU:O	1:D:38:TYR:N	2.48	0.46
1:D:165:TRP:HH2	1:D:295:TYR:HH	1.64	0.46
1:D:752:ILE:CG2	1:D:755:ALA:HB2	2.45	0.46
1:F:270:PHE:O	1:F:274:THR:HG23	2.16	0.46
1:F:558:LEU:HD21	1:F:607:PHE:CD1	2.51	0.46
1:G:51:SER:O	1:G:55:TYR:HD2	1.97	0.46
1:G:591:VAL:HG23	1:G:592:PHE:N	2.30	0.46
1:G:689:GLN:O	1:G:693:MET:HG3	2.15	0.46
1:H:749:ASP:HB3	1:H:752:ILE:HG22	1.98	0.46
1:I:258:TRP:HE3	1:I:263:LYS:HB2	1.81	0.46
1:I:270:PHE:O	1:I:274:THR:HG23	2.15	0.46
1:J:31:SER:O	1:J:35:LEU:HD13	2.16	0.46
1:J:265:SER:O	1:J:269:GLU:OE1	2.33	0.46
1:J:561:VAL:O	1:J:565:ARG:HG2	2.16	0.46
1:L:148:LEU:CD1	1:L:757:LEU:HD23	2.38	0.46
1:L:684:ALA:O	1:L:688:LEU:HD23	2.15	0.46
1:L:693:MET:HG3	1:L:741:MET:CE	2.45	0.46
2:M:611:VAL:HG23	2:M:617:MET:O	2.16	0.46
2:N:104:ILE:HD12	2:N:104:ILE:N	2.31	0.46
2:N:131:LYS:HD2	2:O:192:GLY:N	2.30	0.46
2:N:271:LYS:C	2:N:274:LEU:HG	2.34	0.46
2:N:452:THR:O	2:N:456:GLN:OE1	2.32	0.46
2:N:467:ARG:HB3	2:N:469:GLN:CD	2.36	0.46
2:N:497:PHE:CE1	2:N:729:PRO:HB3	2.51	0.46
2:N:764:ARG:NE	2:N:764:ARG:HA	2.30	0.46
2:O:460:PHE:HB3	2:O:512:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:501:LEU:CD2	2:O:734:ILE:HG23	2.45	0.46
2:O:638:GLU:HG2	2:O:641:ALA:H	1.79	0.46
2:P:105:LYS:CG	2:P:213:CYS:HB3	2.40	0.46
2:P:590:LYS:HZ2	2:P:592:ASN:HB2	1.81	0.46
2:P:707:SER:HA	2:P:710:ILE:CD1	2.46	0.46
2:P:741:PHE:HD1	2:P:782:PHE:HA	1.77	0.46
2:Q:289:MET:HE2	2:Q:293:LEU:HD21	1.97	0.46
2:Q:478:CYS:O	2:Q:482:LEU:HG	2.16	0.46
2:Q:723:ILE:HG13	2:Q:836:LYS:HE3	1.97	0.46
2:Q:776:ARG:NH2	2:Q:871:GLU:OE2	2.49	0.46
2:R:343:ASP:HB2	2:R:346:GLN:HB3	1.96	0.46
2:R:921:THR:HG23	2:R:927:TYR:HE2	1.81	0.46
2:S:123:VAL:HA	2:S:126:THR:OG1	2.15	0.46
2:S:350:ASP:O	2:S:354:GLU:OE1	2.34	0.46
2:S:355:GLY:HA3	2:S:417:LEU:CD1	2.46	0.46
2:S:363:ASP:O	2:S:367:TYR:HD2	1.99	0.46
2:S:443:MET:O	2:S:500:MET:HE1	2.15	0.46
1:A:188:MET:SD	1:A:189:LYS:N	2.89	0.46
1:B:527:ARG:HD2	1:B:704:GLU:HG3	1.97	0.46
1:C:505:HIS:CE1	1:C:507:ILE:HD12	2.51	0.46
1:C:547:LEU:CD2	1:D:97:GLU:HG2	2.45	0.46
1:C:553:LYS:NZ	1:C:671:GLU:HG3	2.30	0.46
1:D:23:VAL:O	1:D:25:LEU:HD22	2.15	0.46
1:D:336:SER:O	1:D:339:LYS:HG2	2.16	0.46
1:D:422:PHE:HB2	1:D:468:ALA:HA	1.96	0.46
1:D:514:ASP:HB3	1:D:562:PHE:CE1	2.51	0.46
1:D:724:ILE:HG23	1:D:725:PHE:N	2.31	0.46
1:E:99:GLN:HG3	1:E:752:ILE:CD1	2.46	0.46
1:E:392:GLU:OE1	1:E:393:LYS:HE3	2.15	0.46
1:E:481:CYS:SG	1:E:519:PHE:HB3	2.55	0.46
1:G:6:LEU:O	1:G:297:LEU:HD23	2.16	0.46
1:G:96:SER:O	1:G:100:THR:HG23	2.14	0.46
1:G:212:CYS:HG	1:G:254:PHE:HE2	1.64	0.46
1:G:752:ILE:HG21	1:G:755:ALA:HB2	1.97	0.46
1:I:165:TRP:CE2	1:I:169:LEU:HD11	2.51	0.46
1:J:176:LEU:CD1	1:J:180:GLU:OE2	2.63	0.46
1:K:324:THR:O	1:K:328:GLU:OE1	2.33	0.46
1:L:303:LEU:O	1:L:307:VAL:HG22	2.16	0.46
1:L:681:PRO:HG2	1:L:684:ALA:HB2	1.98	0.46
2:M:352:VAL:HG23	2:M:353:ARG:N	2.31	0.46
2:M:646:PHE:HA	2:M:649:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:723:ILE:HB	2:M:844:LEU:HD11	1.98	0.46
2:N:531:LEU:HA	2:N:534:GLU:OE1	2.16	0.46
2:N:770:ASN:HD21	2:N:859:GLY:HA3	1.81	0.46
2:O:69:ARG:NH1	2:O:242:ASN:HA	2.30	0.46
2:O:120:PRO:HG2	2:O:123:VAL:HB	1.98	0.46
2:O:274:LEU:HD12	2:P:276:GLN:HE21	1.80	0.46
2:O:577:ASN:HD21	2:O:921:THR:HB	1.79	0.46
2:O:780:LEU:HD13	2:O:814:VAL:HG21	1.98	0.46
2:O:815:ASP:CA	2:O:870:LYS:HE2	2.45	0.46
2:P:156:HIS:CB	2:P:203:LEU:HD23	2.44	0.46
2:P:540:SER:HB2	2:P:549:HIS:CE1	2.50	0.46
2:P:658:PRO:CB	2:P:660:TRP:CH2	2.99	0.46
2:P:719:ASN:OD1	2:P:723:ILE:HD11	2.16	0.46
2:P:745:LEU:O	2:P:748:VAL:HG22	2.16	0.46
2:Q:114:LYS:HZ3	2:R:239:LYS:HD3	1.81	0.46
2:Q:227:PHE:CZ	2:R:268:ASN:CB	2.98	0.46
2:Q:302:PHE:O	2:Q:307:ARG:NH1	2.48	0.46
2:Q:465:TYR:CB	2:Q:467:ARG:NE	2.77	0.46
2:Q:538:TYR:HE2	2:Q:557:VAL:HG23	1.81	0.46
2:R:183:LEU:H	2:R:183:LEU:HD23	1.78	0.46
2:R:494:LEU:CD2	2:R:841:LEU:HD23	2.46	0.46
2:R:580:SER:N	2:R:590:LYS:HE2	2.29	0.46
2:R:801:TYR:OH	2:R:833:LYS:HE2	2.16	0.46
2:S:438:GLN:HA	2:S:441:PHE:CE2	2.51	0.46
2:S:740:ARG:NE	2:S:740:ARG:HA	2.31	0.46
1:A:371:PHE:HB2	1:A:397:ILE:HG13	1.98	0.46
1:A:449:LEU:HA	1:A:452:MET:HE2	1.98	0.46
1:B:230:TRP:HE3	1:B:245:ILE:HD13	1.81	0.46
1:C:301:GLN:NE2	1:C:301:GLN:HA	2.31	0.46
1:D:258:TRP:CE3	1:D:263:LYS:HD3	2.51	0.46
1:D:441:ASP:O	1:D:445:GLN:HG2	2.16	0.46
1:D:466:VAL:HG13	1:D:492:ILE:HG21	1.96	0.46
1:E:70:VAL:O	1:E:74:ARG:HG3	2.16	0.46
1:E:325:GLU:OE1	1:E:325:GLU:N	2.36	0.46
1:E:556:ARG:NH1	1:E:673:VAL:HG11	2.31	0.46
1:F:586:ARG:NH1	1:J:649:MET:HE3	2.30	0.46
1:G:276:LEU:O	1:G:279:LYS:HG2	2.16	0.46
1:H:493:ALA:O	1:H:494:HIS:HB2	2.16	0.46
1:H:564:TRP:O	1:H:568:ARG:HG3	2.14	0.46
1:I:387:MET:SD	1:I:388:GLU:O	2.74	0.46
1:I:641:ARG:HA	1:I:644:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:351:ARG:HD2	1:K:415:GLU:OE1	2.15	0.46
1:K:356:ARG:HB3	1:K:421:HIS:HE2	1.79	0.46
1:K:493:ALA:O	1:K:494:HIS:HB2	2.16	0.46
2:M:167:LEU:O	2:S:117:ARG:NH1	2.35	0.46
2:M:235:GLU:HA	2:M:238:ARG:HG2	1.98	0.46
2:M:285:GLU:HG2	2:M:286:ARG:N	2.30	0.46
2:M:354:GLU:CD	2:M:413:VAL:HG11	2.36	0.46
2:M:443:MET:HE1	2:M:500:MET:HE1	1.98	0.46
2:M:446:LEU:CG	2:M:486:VAL:HG12	2.46	0.46
2:M:571:LEU:CD2	2:M:745:LEU:HB2	2.46	0.46
2:M:833:LYS:CE	2:M:837:ASN:HB3	2.45	0.46
2:N:201:GLU:OE2	2:N:245:LYS:HE2	2.15	0.46
2:N:218:ILE:HG12	2:N:248:VAL:HG22	1.96	0.46
2:N:549:HIS:O	2:N:552:ASN:OD1	2.34	0.46
2:N:757:TYR:HE2	2:N:767:SER:O	1.98	0.46
2:N:794:HIS:CG	2:N:796:VAL:HG22	2.51	0.46
2:O:41:LEU:HA	2:O:44:SER:OG	2.16	0.46
2:O:256:LEU:HD12	2:O:257:TYR:N	2.30	0.46
2:O:355:GLY:CA	2:O:413:VAL:HG12	2.46	0.46
2:O:737:VAL:HG22	2:O:789:GLU:CB	2.43	0.46
2:O:789:GLU:O	2:O:793:TYR:HB2	2.15	0.46
2:O:801:TYR:O	2:O:827:LYS:HD2	2.16	0.46
2:O:818:GLU:HG2	2:O:877:LEU:HD12	1.97	0.46
2:O:833:LYS:CE	2:O:834:THR:O	2.64	0.46
2:O:856:PHE:HE2	2:O:878:ILE:HD11	1.80	0.46
2:P:121:ILE:CG1	2:P:233:VAL:HG22	2.43	0.46
2:P:123:VAL:HG22	2:Q:177:PHE:CD1	2.51	0.46
2:P:129:LEU:HA	2:P:132:MET:HE3	1.97	0.46
2:P:180:ALA:HA	2:P:194:GLN:OE1	2.15	0.46
2:P:320:LYS:HZ2	2:P:365:ASP:CG	2.19	0.46
2:P:612:ALA:CB	2:P:654:THR:HG22	2.31	0.46
2:P:617:MET:HE3	2:P:923:VAL:HG11	1.96	0.46
2:P:759:ASN:OD1	2:P:931:THR:HG23	2.16	0.46
2:P:806:LEU:HG	2:P:808:LEU:HD11	1.97	0.46
2:P:810:PRO:HA	2:P:816:GLU:OE2	2.16	0.46
2:P:851:LEU:O	2:P:855:ILE:HG13	2.16	0.46
2:P:914:ILE:CG2	2:P:917:LEU:HB3	2.45	0.46
2:Q:83:THR:HA	2:Q:86:ILE:HG22	1.98	0.46
2:Q:126:THR:OG1	2:R:177:PHE:HE1	1.99	0.46
2:Q:273:LEU:O	2:Q:276:GLN:HG2	2.14	0.46
2:R:206:ARG:O	2:R:210:ILE:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:495:SER:HB3	2:R:634:ALA:CB	2.46	0.46
2:R:511:PHE:CA	2:R:515:VAL:HB	2.35	0.46
2:S:35:LYS:HE2	2:S:38:ARG:NH2	2.31	0.46
2:S:164:LEU:HD23	2:S:164:LEU:C	2.36	0.46
2:S:171:GLU:OE2	2:S:173:LYS:HB2	2.16	0.46
2:S:870:LYS:CD	2:S:871:GLU:HG3	2.46	0.46
1:A:210:ILE:O	1:A:214:ILE:HG12	2.16	0.46
1:B:591:VAL:HA	1:B:668:GLN:OE1	2.16	0.46
1:B:651:ARG:HB2	1:B:652:PRO:HD3	1.97	0.46
1:B:696:MET:HG2	1:B:701:ILE:CG2	2.46	0.46
1:B:756:ASP:O	1:B:760:GLU:OE1	2.32	0.46
1:C:20:LEU:HD13	1:C:236:ASN:CA	2.46	0.46
1:C:638:GLU:O	1:C:641:ARG:CD	2.64	0.46
1:D:98:TRP:CH2	1:D:132:LEU:HB2	2.51	0.46
1:D:589:HIS:O	1:D:593:SER:N	2.49	0.46
1:E:140:GLU:O	1:E:143:ILE:HG22	2.16	0.46
1:E:152:HIS:HD2	1:E:748:ASP:HB2	1.81	0.46
1:E:366:MET:SD	1:E:370:LEU:HD12	2.56	0.46
1:F:2:GLU:HB3	1:F:72:ILE:HG23	1.98	0.46
1:F:471:ASN:HB3	1:F:474:HIS:CD2	2.51	0.46
1:G:150:GLU:OE1	1:G:353:LEU:HD12	2.16	0.46
1:G:504:PRO:CG	1:G:551:MET:HG3	2.46	0.46
1:H:165:TRP:O	1:H:169:LEU:HG	2.15	0.46
1:H:216:GLU:OE2	1:H:254:PHE:HB2	2.16	0.46
1:H:225:VAL:O	1:H:226:GLU:HG3	2.16	0.46
1:H:405:GLU:OE1	1:H:406:LEU:HD23	2.16	0.46
1:H:778:ASP:O	1:H:782:LYS:HG2	2.15	0.46
1:I:542:LYS:O	1:I:542:LYS:HG3	2.16	0.46
1:J:552:THR:OG1	1:J:555:THR:HG23	2.16	0.46
1:K:148:LEU:HD12	1:K:148:LEU:N	2.31	0.46
1:K:536:ILE:HD13	1:K:541:TRP:HD1	1.81	0.46
2:M:117:ARG:HH11	2:M:118:HIS:N	2.08	0.46
2:M:206:ARG:NH2	2:M:209:GLU:HB2	2.31	0.46
2:M:258:SER:HB2	2:S:430:TYR:CE2	2.51	0.46
2:M:293:LEU:O	2:M:296:GLN:CG	2.63	0.46
2:M:452:THR:HG23	2:M:456:GLN:HE22	1.80	0.46
2:N:69:ARG:HH22	2:N:244:ARG:NH2	2.14	0.46
2:N:446:LEU:CD2	2:N:450:ILE:HD13	2.46	0.46
2:N:476:ARG:HG2	2:N:476:ARG:HH11	1.81	0.46
2:O:389:LYS:HG3	2:O:416:LEU:HD12	1.94	0.46
2:O:430:TYR:HD1	2:O:436:TYR:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:596:GLU:HG2	2:O:604:MET:HE2	1.98	0.46
2:P:149:GLN:C	2:P:152:GLN:HE21	2.18	0.46
2:P:153:TRP:C	2:P:157:LEU:HD13	2.37	0.46
2:P:218:ILE:O	2:P:218:ILE:HG13	2.15	0.46
2:P:543:ARG:HB2	2:Q:469:GLN:HE21	1.77	0.46
2:P:575:GLN:HA	2:P:619:PHE:HA	1.97	0.46
2:P:584:MET:HE3	2:P:588:TYR:O	2.16	0.46
2:P:816:GLU:HB3	2:P:820:LYS:HZ3	1.81	0.46
2:Q:330:VAL:HG22	2:Q:331:LYS:N	2.27	0.46
2:Q:352:VAL:HG21	2:Q:368:VAL:CG2	2.46	0.46
2:Q:497:PHE:CE1	2:Q:729:PRO:HB3	2.50	0.46
2:Q:498:LEU:HA	2:Q:501:LEU:CG	2.46	0.46
2:Q:528:PHE:O	2:Q:532:ILE:HG23	2.16	0.46
2:Q:600:ALA:O	2:Q:604:MET:HG2	2.15	0.46
2:Q:737:VAL:HG23	2:Q:738:TRP:N	2.31	0.46
2:Q:768:GLN:NE2	2:Q:931:THR:HG21	2.30	0.46
2:R:42:VAL:CG1	2:R:46:ARG:HH22	2.29	0.46
2:R:111:ASP:OD2	2:R:114:LYS:HB2	2.14	0.46
2:R:496:LYS:CA	2:R:499:GLN:HG2	2.45	0.46
2:R:505:CYS:SG	2:R:738:TRP:CD1	3.08	0.46
2:R:524:ASP:HB3	2:R:527:LYS:CE	2.46	0.46
2:S:270:SER:O	2:S:274:LEU:HG	2.16	0.46
2:S:718:LYS:C	2:S:718:LYS:HD2	2.36	0.46
2:S:764:ARG:HD2	2:S:765:MET:N	2.31	0.46
2:S:787:LEU:HD13	2:S:842:PHE:CG	2.50	0.46
2:S:810:PRO:HA	2:S:816:GLU:CD	2.36	0.46
1:A:736:GLU:HG2	1:A:737:GLY:N	2.31	0.46
1:C:287:GLY:O	1:C:288:LEU:C	2.53	0.46
1:D:6:LEU:O	1:D:297:LEU:HD13	2.15	0.46
1:D:777:ALA:HB1	1:D:781:ARG:HH12	1.81	0.46
1:F:203:ILE:HG22	1:F:207:ARG:HG3	1.97	0.46
1:G:161:ALA:HB3	1:G:753:PHE:HD1	1.79	0.46
1:H:346:VAL:HG13	1:H:347:TYR:CD1	2.51	0.46
1:H:784:ALA:O	1:H:787:ASN:N	2.49	0.46
1:J:108:LEU:HD13	1:J:128:PHE:CZ	2.50	0.46
1:K:466:VAL:HG13	1:K:492:ILE:HG21	1.98	0.46
1:K:724:ILE:HG23	1:K:725:PHE:N	2.30	0.46
1:L:579:ASP:O	1:L:582:ILE:N	2.49	0.46
1:L:752:ILE:HG23	1:L:755:ALA:HB2	1.98	0.46
2:M:102:VAL:O	2:M:104:ILE:HD12	2.15	0.46
2:M:267:GLU:OE2	2:N:272:THR:OG1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:600:ALA:O	2:M:604:MET:HE2	2.16	0.46
2:M:785:ALA:CA	2:M:788:VAL:HG22	2.46	0.46
2:N:166:LEU:HD12	2:N:166:LEU:N	2.31	0.46
2:N:490:CYS:HB3	2:N:729:PRO:CG	2.45	0.46
2:N:493:SER:CB	2:N:496:LYS:HD2	2.46	0.46
2:N:632:ILE:HD11	2:N:642:ILE:HG23	1.98	0.46
2:N:728:ARG:HH21	2:N:796:VAL:CG1	2.26	0.46
2:N:877:LEU:O	2:N:881:ILE:HG13	2.16	0.46
2:O:163:GLY:O	2:O:166:LEU:HG	2.16	0.46
2:O:173:LYS:HD2	2:O:175:GLU:N	2.31	0.46
2:O:333:GLU:HB2	2:O:334:PRO:CD	2.46	0.46
2:O:421:LEU:HD21	2:O:480:ILE:HG22	1.97	0.46
2:O:446:LEU:HD22	2:O:489:ASN:OD1	2.15	0.46
2:O:539:MET:CE	2:O:550:TRP:HE1	2.29	0.46
2:O:540:SER:HG	2:O:544:ILE:HD12	1.81	0.46
2:O:568:GLY:O	2:O:574:VAL:HA	2.16	0.46
2:O:741:PHE:CZ	2:O:745:LEU:HD21	2.51	0.46
2:O:890:GLU:HA	2:O:893:ASP:OD2	2.15	0.46
2:Q:107:LEU:HD23	2:Q:128:ARG:NH2	2.27	0.46
2:Q:541:VAL:O	2:Q:541:VAL:HG13	2.16	0.46
2:Q:836:LYS:HD2	2:Q:843:PHE:CZ	2.51	0.46
2:R:123:VAL:O	2:R:126:THR:OG1	2.28	0.46
2:R:148:LYS:N	2:R:148:LYS:HD2	2.30	0.46
2:R:353:ARG:HA	2:R:358:LEU:CB	2.39	0.46
2:R:451:PHE:O	2:R:454:VAL:HG22	2.15	0.46
2:R:494:LEU:HD23	2:R:727:ILE:HD13	1.97	0.46
2:R:528:PHE:O	2:R:532:ILE:HG23	2.16	0.46
2:R:636:ARG:HG3	2:R:638:GLU:H	1.81	0.46
2:R:790:GLU:OE2	2:R:840:PRO:HD2	2.16	0.46
2:S:173:LYS:CG	2:S:174:PRO:HD2	2.46	0.46
2:S:596:GLU:CB	2:S:601:LYS:HB2	2.45	0.46
2:S:737:VAL:HG23	2:S:738:TRP:N	2.30	0.46
1:A:538:PRO:HD2	1:A:539:SER:N	2.31	0.45
1:B:246:LEU:HD11	1:B:249:GLY:N	2.31	0.45
1:B:559:ASP:O	1:B:563:ILE:HG13	2.17	0.45
1:C:66:LYS:HE2	1:C:286:GLU:OE2	2.15	0.45
1:C:287:GLY:O	1:C:289:GLU:N	2.49	0.45
1:C:535:GLY:CA	1:C:726:ARG:HE	2.29	0.45
1:E:453:LEU:HD11	1:E:460:THR:HG23	1.97	0.45
1:E:733:GLU:HG2	1:E:734:ALA:N	2.30	0.45
1:G:504:PRO:HB2	1:G:551:MET:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:LYS:NZ	1:H:470:ALA:O	2.47	0.45
1:H:792:ILE:HG22	1:H:793:TYR:HD2	1.81	0.45
1:I:69:PRO:O	1:I:70:VAL:C	2.55	0.45
1:I:95:PHE:CZ	1:I:99:GLN:NE2	2.85	0.45
1:I:422:PHE:HB2	1:I:468:ALA:HA	1.98	0.45
1:I:650:LYS:CD	1:I:654:LYS:NZ	2.79	0.45
1:J:46:ASP:OD1	1:J:46:ASP:O	2.34	0.45
1:J:148:LEU:HD22	1:J:758:LYS:HG3	1.98	0.45
1:L:431:GLU:O	1:L:666:ARG:NH1	2.39	0.45
1:L:741:MET:O	1:L:742:SER:OG	2.28	0.45
2:M:356:LEU:HD12	2:M:358:LEU:HD12	1.97	0.45
2:M:642:ILE:CG2	2:M:710:ILE:HG13	2.45	0.45
2:N:271:LYS:O	2:N:272:THR:C	2.54	0.45
2:N:495:SER:HB3	2:N:634:ALA:HB3	1.98	0.45
2:N:513:GLN:N	2:N:513:GLN:OE1	2.49	0.45
2:N:553:ARG:NH2	2:N:655:CYS:CB	2.78	0.45
2:N:769:SER:HA	2:N:773:LYS:HD2	1.98	0.45
2:O:723:ILE:CG1	2:O:844:LEU:HD21	2.46	0.45
2:O:727:ILE:HD12	2:O:794:HIS:HE1	1.81	0.45
2:P:154:GLN:O	2:P:157:LEU:HB2	2.16	0.45
2:P:501:LEU:O	2:P:505:CYS:HB2	2.15	0.45
2:Q:103:ASN:OD1	2:Q:105:LYS:HE3	2.16	0.45
2:Q:282:ARG:CA	2:Q:285:GLU:HG3	2.41	0.45
2:Q:480:ILE:HG13	2:Q:481:TYR:N	2.31	0.45
2:Q:499:GLN:O	2:Q:503:VAL:HG23	2.16	0.45
2:Q:506:GLY:CA	2:Q:738:TRP:CZ2	2.98	0.45
2:Q:571:LEU:CD1	2:Q:746:ASN:HD21	2.29	0.45
2:Q:599:LEU:HD13	2:Q:712:LYS:CE	2.42	0.45
2:Q:910:PHE:HB3	2:Q:913:THR:CG2	2.46	0.45
2:R:135:ASP:HA	2:R:138:LYS:HZ2	1.80	0.45
2:R:241:PHE:HA	2:R:246:LEU:CD2	2.46	0.45
2:R:353:ARG:HG3	2:R:359:ARG:O	2.16	0.45
2:R:592:ASN:HD21	2:R:594:ASP:HB2	1.81	0.45
2:R:858:ILE:HG22	2:R:918:ASN:HD22	1.80	0.45
2:S:165:HIS:CD2	2:S:166:LEU:HD23	2.51	0.45
2:S:421:LEU:HB3	2:S:481:TYR:HD1	1.80	0.45
2:S:494:LEU:CD1	2:S:720:VAL:HG13	2.47	0.45
2:S:539:MET:HG3	2:S:541:VAL:HB	1.97	0.45
2:S:552:ASN:OD1	2:S:553:ARG:NH1	2.46	0.45
2:S:617:MET:HG2	2:S:619:PHE:CE2	2.51	0.45
1:A:139:VAL:HG11	1:A:762:TYR:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:291:LEU:O	1:A:294:ILE:HG22	2.17	0.45
1:C:11:LEU:O	1:C:15:LEU:HD13	2.17	0.45
1:C:36:ALA:O	1:C:40:GLN:OE1	2.35	0.45
1:C:401:LEU:HD11	1:C:459:LEU:HD12	1.98	0.45
1:C:542:LYS:HB2	1:C:677:LEU:HD21	1.97	0.45
1:D:366:MET:HG3	1:D:448:ILE:HG21	1.97	0.45
1:D:585:VAL:O	1:D:589:HIS:CD2	2.69	0.45
1:E:4:PHE:CE1	1:E:37:GLN:HA	2.51	0.45
1:E:424:LYS:HD2	1:E:471:ASN:O	2.16	0.45
1:E:471:ASN:HB3	1:E:474:HIS:ND1	2.32	0.45
1:E:607:PHE:O	1:E:610:ARG:CD	2.64	0.45
1:F:522:LEU:O	1:F:523:ARG:NH2	2.49	0.45
1:G:65:MET:CE	1:G:70:VAL:HG13	2.47	0.45
1:I:152:HIS:ND1	1:I:704:GLU:OE1	2.40	0.45
1:I:757:LEU:HA	1:I:760:GLU:OE1	2.17	0.45
1:K:75:LEU:HA	1:K:78:GLU:OE1	2.16	0.45
1:L:595:GLU:OE1	1:L:595:GLU:N	2.48	0.45
1:L:690:GLN:HA	1:L:693:MET:CE	2.46	0.45
2:M:451:PHE:O	2:M:454:VAL:HG22	2.16	0.45
2:M:574:VAL:HG12	2:M:576:LEU:HD23	1.98	0.45
2:M:577:ASN:OD1	2:M:923:VAL:HB	2.16	0.45
2:M:716:TRP:CZ2	2:M:848:CYS:HB2	2.50	0.45
2:M:741:PHE:CE1	2:M:782:PHE:CA	2.98	0.45
2:M:785:ALA:O	2:M:788:VAL:HG22	2.17	0.45
2:M:810:PRO:HB3	2:M:816:GLU:OE1	2.16	0.45
2:N:118:HIS:O	2:O:172:TYR:HB2	2.16	0.45
2:N:376:VAL:O	2:N:379:LEU:HG	2.16	0.45
2:N:422:TYR:HD1	2:N:481:TYR:OH	1.88	0.45
2:N:603:ALA:HB2	2:N:850:ILE:CD1	2.46	0.45
2:N:713:VAL:HG22	2:N:849:PRO:HG3	1.98	0.45
2:N:886:LEU:HG	2:N:887:LEU:HG	1.97	0.45
2:O:297:TYR:CD1	2:O:300:LYS:HE2	2.51	0.45
2:O:511:PHE:HA	2:O:515:VAL:HG23	1.98	0.45
2:O:629:ILE:HD11	2:O:850:ILE:CB	2.46	0.45
2:O:794:HIS:ND1	2:O:796:VAL:HG22	2.32	0.45
2:O:843:PHE:HA	2:O:846:ILE:CD1	2.46	0.45
2:P:569:VAL:CG2	2:P:574:VAL:HG13	2.45	0.45
2:P:580:SER:O	2:P:581:ARG:NH1	2.48	0.45
2:P:658:PRO:HB2	2:P:660:TRP:CE3	2.52	0.45
2:P:727:ILE:CD1	2:P:841:LEU:HD11	2.45	0.45
2:P:806:LEU:HD23	2:P:808:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:858:ILE:HG22	2:P:918:ASN:HD22	1.81	0.45
2:Q:332:THR:HG23	2:Q:387:TYR:CD2	2.51	0.45
2:Q:375:PRO:CB	2:Q:378:LEU:HD13	2.44	0.45
2:Q:776:ARG:HD2	2:Q:857:PRO:CD	2.46	0.45
2:R:276:GLN:HB2	2:R:277:GLU:OE2	2.15	0.45
2:R:425:MET:O	2:R:428:ASN:HB3	2.17	0.45
2:R:584:MET:HE3	2:R:588:TYR:C	2.37	0.45
2:R:584:MET:HB2	2:R:585:PRO:HD2	1.98	0.45
2:S:180:ALA:HA	2:S:194:GLN:OE1	2.16	0.45
2:S:227:PHE:HD2	2:S:260:LEU:HD11	1.81	0.45
2:S:494:LEU:HD23	2:S:494:LEU:C	2.37	0.45
2:S:553:ARG:O	2:S:557:VAL:HG23	2.16	0.45
2:S:657:VAL:HG12	2:S:658:PRO:O	2.17	0.45
1:A:15:LEU:HD22	1:A:293:TRP:CE3	2.50	0.45
1:B:111:ILE:HG12	1:B:132:LEU:HD11	1.98	0.45
1:B:601:THR:HG23	1:B:602:THR:N	2.31	0.45
1:C:724:ILE:HA	1:C:727:TRP:CE3	2.49	0.45
1:D:511:ARG:HD2	1:D:558:LEU:HB3	1.98	0.45
1:D:587:LEU:HD12	1:D:590:LYS:HD2	1.97	0.45
1:D:702:ALA:HB2	1:D:793:TYR:HD2	1.77	0.45
1:F:356:ARG:HB3	1:F:421:HIS:CE1	2.52	0.45
1:F:435:HIS:CE1	1:F:474:HIS:O	2.69	0.45
1:H:720:SER:HB2	1:H:771:LYS:HE2	1.99	0.45
1:I:542:LYS:HB2	1:I:677:LEU:HD21	1.98	0.45
1:J:678:GLU:OE1	1:J:678:GLU:O	2.34	0.45
1:K:52:ALA:O	1:K:56:LEU:HD13	2.16	0.45
2:M:106:CYS:C	2:M:107:LEU:HD12	2.36	0.45
2:M:358:LEU:HD23	2:M:358:LEU:C	2.36	0.45
2:M:507:SER:HA	2:M:510:ILE:HD11	1.97	0.45
2:M:783:LEU:HD22	2:M:846:ILE:HG22	1.99	0.45
2:M:833:LYS:HG3	2:M:838:THR:HG22	1.98	0.45
2:N:116:PRO:CB	2:N:119:GLU:OE2	2.63	0.45
2:N:123:VAL:HG13	2:O:177:PHE:CD1	2.52	0.45
2:N:163:GLY:C	2:N:166:LEU:HD13	2.37	0.45
2:N:205:LYS:HB3	2:N:206:ARG:NH2	2.30	0.45
2:N:255:ARG:NH1	2:O:289:MET:SD	2.89	0.45
2:N:651:ALA:CB	2:O:806:LEU:HD11	2.46	0.45
2:N:816:GLU:HB3	2:N:820:LYS:HZ2	1.81	0.45
2:O:85:PHE:CD2	2:O:310:LEU:HD21	2.52	0.45
2:O:106:CYS:C	2:O:107:LEU:HD12	2.37	0.45
2:O:170:LYS:HD3	2:O:170:LYS:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:776:ARG:NE	2:O:860:GLY:O	2.49	0.45
2:P:161:GLN:HA	2:Q:177:PHE:CE2	2.51	0.45
2:P:432:ALA:HB3	2:P:434:LEU:HG	1.98	0.45
2:P:576:LEU:CD1	2:P:591:PHE:HB3	2.47	0.45
2:Q:41:LEU:O	2:Q:45:ILE:HG23	2.16	0.45
2:Q:42:VAL:O	2:Q:45:ILE:HG12	2.16	0.45
2:Q:136:LYS:HE3	2:Q:211:LEU:HA	1.97	0.45
2:Q:139:GLY:O	2:Q:140:TYR:HB3	2.15	0.45
2:Q:351:ALA:O	2:Q:417:LEU:HD22	2.16	0.45
2:Q:388:THR:HG23	2:Q:392:HIS:HE1	1.81	0.45
2:Q:471:GLU:HA	2:Q:476:ARG:HH21	1.82	0.45
2:Q:771:ALA:HB2	2:Q:922:ILE:HD11	1.99	0.45
2:R:46:ARG:HG3	2:R:102:VAL:HG13	1.97	0.45
2:R:198:GLU:HA	2:R:201:GLU:CG	2.46	0.45
2:R:394:THR:O	2:R:395:SER:HB2	2.16	0.45
2:R:503:VAL:O	2:R:507:SER:HB3	2.17	0.45
2:R:562:PRO:HG2	2:R:570:PHE:HE2	1.75	0.45
2:R:738:TRP:CZ3	2:R:742:TYR:HB2	2.51	0.45
2:S:103:ASN:O	2:S:104:ILE:HD13	2.17	0.45
2:S:332:THR:HG22	2:S:333:GLU:CD	2.37	0.45
2:S:466:LEU:O	2:S:479:SER:HB2	2.15	0.45
1:A:176:LEU:HD22	1:A:205:LYS:CE	2.46	0.45
1:B:552:THR:O	1:B:555:THR:OG1	2.25	0.45
1:B:733:GLU:N	1:B:733:GLU:OE1	2.50	0.45
1:C:402:ASP:OD1	1:C:458:ARG:NH1	2.40	0.45
1:C:407:VAL:HG22	1:C:408:GLU:N	2.31	0.45
1:D:165:TRP:CE2	1:D:169:LEU:HD11	2.51	0.45
1:D:752:ILE:HG23	1:D:755:ALA:HB2	1.98	0.45
1:E:594:LEU:HD11	1:E:655:LEU:HD11	1.98	0.45
1:F:191:LEU:O	1:F:191:LEU:HD23	2.17	0.45
1:F:452:MET:O	1:F:455:SER:OG	2.27	0.45
1:G:352:TYR:CD1	1:G:415:GLU:HB2	2.52	0.45
1:G:377:TYR:CE1	1:G:381:LEU:HD21	2.51	0.45
1:G:534:ILE:O	1:G:534:ILE:HG22	2.16	0.45
1:G:720:SER:HB3	1:G:771:LYS:HD3	1.99	0.45
1:G:722:HIS:HD2	1:G:723:HIS:ND1	2.15	0.45
1:H:225:VAL:O	1:H:227:LEU:N	2.49	0.45
1:H:237:PRO:O	1:H:240:LEU:N	2.45	0.45
1:I:295:TYR:O	1:I:299:GLN:HG2	2.17	0.45
1:I:603:LEU:O	1:I:607:PHE:CD2	2.69	0.45
1:L:724:ILE:HA	1:L:727:TRP:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:74:VAL:CG2	2:M:251:THR:HG22	2.47	0.45
2:M:197:SER:HA	2:M:240:PHE:HD1	1.81	0.45
2:M:370:GLU:OE2	2:M:476:ARG:HD2	2.16	0.45
2:M:388:THR:CG2	2:M:392:HIS:HE1	2.29	0.45
2:M:414:PRO:CG	2:M:491:GLN:HE22	2.29	0.45
2:M:549:HIS:O	2:M:553:ARG:HG2	2.17	0.45
2:M:555:CYS:HA	2:M:558:VAL:CG1	2.47	0.45
2:M:607:SER:CB	2:M:625:LEU:HG	2.46	0.45
2:M:613:SER:HB2	2:M:657:VAL:HG21	1.98	0.45
2:M:638:GLU:OE2	2:M:640:SER:OG	2.14	0.45
2:M:737:VAL:N	2:M:789:GLU:HG2	2.31	0.45
2:M:741:PHE:CE1	2:M:782:PHE:N	2.84	0.45
2:M:760:ALA:HA	2:M:768:GLN:CG	2.29	0.45
2:M:863:CYS:C	2:M:868:LEU:HB2	2.37	0.45
2:N:151:GLU:OE1	2:N:151:GLU:N	2.45	0.45
2:N:173:LYS:CD	2:N:175:GLU:H	2.29	0.45
2:N:639:ARG:NH2	2:N:710:ILE:HD12	2.31	0.45
2:N:716:TRP:NE1	2:N:720:VAL:HG21	2.30	0.45
2:N:758:ARG:HB2	2:N:927:TYR:O	2.16	0.45
2:N:826:GLU:CD	2:N:827:LYS:HD2	2.36	0.45
2:O:181:LEU:HD12	2:O:181:LEU:O	2.16	0.45
2:O:376:VAL:O	2:O:379:LEU:HG	2.17	0.45
2:O:490:CYS:HA	2:O:496:LYS:CD	2.46	0.45
2:O:574:VAL:HG11	2:O:771:ALA:HB2	1.98	0.45
2:P:113:THR:HG22	2:P:226:GLN:HB3	1.98	0.45
2:P:137:LEU:HD23	2:P:137:LEU:C	2.36	0.45
2:P:386:PHE:HA	2:P:389:LYS:HZ3	1.75	0.45
2:P:609:SER:O	2:P:619:PHE:N	2.50	0.45
2:P:710:ILE:HG13	2:P:711:THR:N	2.31	0.45
2:Q:93:LEU:HB3	2:Q:106:CYS:SG	2.57	0.45
2:Q:370:GLU:HA	2:Q:373:LYS:CG	2.47	0.45
2:Q:423:GLY:HA3	2:R:307:ARG:NH1	2.32	0.45
2:Q:443:MET:HE1	2:Q:496:LYS:HA	1.99	0.45
2:Q:567:ILE:HD12	2:Q:753:LYS:HZ1	1.81	0.45
2:R:38:ARG:HD2	2:R:38:ARG:C	2.35	0.45
2:R:107:LEU:HD12	2:R:218:ILE:CA	2.38	0.45
2:R:135:ASP:OD1	2:R:136:LYS:N	2.48	0.45
2:R:336:MET:HE3	2:R:338:ASP:H	1.82	0.45
2:R:428:ASN:HD21	2:R:474:ALA:HA	1.81	0.45
2:R:607:SER:HB3	2:R:625:LEU:CG	2.46	0.45
2:R:757:TYR:H	2:R:760:ALA:CB	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:162:ARG:HH11	2:S:163:GLY:N	2.14	0.45
2:S:218:ILE:HD12	2:S:220:PHE:HZ	1.80	0.45
2:S:378:LEU:O	2:S:382:VAL:HG12	2.15	0.45
2:S:467:ARG:NH1	2:S:469:GLN:HA	2.32	0.45
2:S:573:MET:HE1	2:S:619:PHE:HB3	1.99	0.45
2:S:636:ARG:HD2	2:S:638:GLU:HB2	1.98	0.45
2:S:719:ASN:O	2:S:723:ILE:HG22	2.15	0.45
2:S:739:SER:O	2:S:743:PHE:CD2	2.69	0.45
2:S:784:HIS:HD2	2:S:817:PHE:HD1	1.64	0.45
1:A:219:CYS:HA	1:A:272:TRP:CD1	2.52	0.45
1:B:14:ARG:CZ	1:B:28:ARG:HG3	2.47	0.45
1:B:683:GLU:OE2	1:B:683:GLU:HA	2.16	0.45
1:C:199:LEU:O	1:C:203:ILE:HB	2.16	0.45
1:E:542:LYS:HG2	1:E:677:LEU:CD2	2.46	0.45
1:E:559:ASP:O	1:E:563:ILE:HG13	2.17	0.45
1:E:656:TYR:CE2	1:E:660:LEU:HD11	2.51	0.45
1:E:725:PHE:HE1	1:E:768:LEU:HD23	1.81	0.45
1:F:102:MET:HE1	1:F:107:CYS:HB3	1.97	0.45
1:F:199:LEU:O	1:F:200:THR:O	2.35	0.45
1:F:202:ARG:CZ	1:F:203:ILE:HD13	2.47	0.45
1:F:440:LYS:O	1:F:443:LYS:HG2	2.17	0.45
1:F:743:ILE:H	1:F:743:ILE:HD12	1.81	0.45
1:F:794:ARG:HD2	1:F:796:HIS:HB2	1.97	0.45
1:G:724:ILE:HG23	1:G:725:PHE:N	2.32	0.45
1:H:723:HIS:HD2	1:H:727:TRP:CZ3	2.34	0.45
1:I:357:PHE:O	1:I:420:PRO:HA	2.16	0.45
1:I:561:VAL:HG21	1:I:607:PHE:CE2	2.52	0.45
1:I:678:GLU:O	1:I:678:GLU:OE1	2.34	0.45
1:L:143:ILE:O	1:L:147:CYS:N	2.47	0.45
2:M:71:VAL:N	2:M:306:LYS:HE2	2.32	0.45
2:M:266:TYR:O	2:M:269:TYR:HD2	2.00	0.45
2:M:312:THR:CG2	2:M:315:GLN:HG3	2.46	0.45
2:M:371:LEU:HA	2:M:374:GLN:HE22	1.78	0.45
2:M:386:PHE:CE2	2:M:390:LYS:HD3	2.52	0.45
2:M:414:PRO:CD	2:M:491:GLN:HE22	2.30	0.45
2:M:427:SER:O	2:M:431:ARG:HG2	2.15	0.45
2:M:553:ARG:HD3	2:M:655:CYS:SG	2.56	0.45
2:M:589:LYS:O	2:M:920:SER:HA	2.16	0.45
2:M:606:SER:HA	2:M:650:ILE:HA	1.98	0.45
2:M:707:SER:O	2:M:710:ILE:HG22	2.17	0.45
2:N:135:ASP:O	2:N:138:LYS:HE3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:178:SER:C	2:N:181:LEU:HG	2.37	0.45
2:N:213:CYS:SG	2:N:216:ILE:HD11	2.56	0.45
2:N:344:VAL:O	2:N:348:ILE:HG12	2.17	0.45
2:N:473:GLU:OE1	2:N:476:ARG:NE	2.49	0.45
2:N:808:LEU:HD23	2:N:809:ASN:C	2.36	0.45
2:N:852:HIS:HB2	2:N:853:PRO:HD3	1.98	0.45
2:O:72:PHE:CE1	2:O:306:LYS:HE3	2.52	0.45
2:O:314:LEU:HB2	2:O:372:LEU:CB	2.46	0.45
2:O:333:GLU:OE1	2:O:336:MET:CE	2.62	0.45
2:O:728:ARG:N	2:O:729:PRO:HD3	2.31	0.45
2:O:834:THR:O	2:O:837:ASN:N	2.50	0.45
2:P:73:PHE:HD2	2:P:307:ARG:NH1	2.14	0.45
2:P:596:GLU:HB3	2:P:601:LYS:HA	1.98	0.45
2:P:600:ALA:O	2:P:604:MET:SD	2.74	0.45
2:P:636:ARG:CD	2:P:638:GLU:HB3	2.46	0.45
2:P:806:LEU:HG	2:P:808:LEU:CD1	2.46	0.45
2:Q:107:LEU:HD12	2:Q:129:LEU:HD21	1.98	0.45
2:Q:148:LYS:HD3	2:Q:148:LYS:N	2.31	0.45
2:Q:149:GLN:H	2:Q:149:GLN:CD	2.19	0.45
2:Q:438:GLN:HE21	2:R:309:GLN:NE2	2.11	0.45
2:Q:491:GLN:CG	2:Q:728:ARG:HE	2.28	0.45
2:Q:810:PRO:CG	2:Q:817:PHE:HB2	2.46	0.45
2:Q:828:LEU:HD22	2:Q:835:TRP:CD1	2.52	0.45
2:R:103:ASN:CG	2:R:213:CYS:HA	2.37	0.45
2:R:318:GLY:CA	2:R:323:ALA:HB3	2.24	0.45
2:R:383:LEU:O	2:R:383:LEU:HG	2.17	0.45
2:R:524:ASP:HB3	2:R:527:LYS:HE3	1.98	0.45
2:R:623:PHE:O	2:R:626:ILE:HG22	2.17	0.45
2:R:732:LEU:HD11	2:R:793:TYR:HB3	1.99	0.45
2:R:798:ASP:OD1	2:R:799:ARG:HG2	2.16	0.45
2:S:116:PRO:CG	2:S:119:GLU:HG3	2.47	0.45
2:S:322:LYS:O	2:S:322:LYS:HD3	2.16	0.45
2:S:348:ILE:O	2:S:352:VAL:HG12	2.16	0.45
2:S:610:THR:OG1	2:S:652:GLN:NE2	2.49	0.45
1:A:493:ALA:O	1:A:494:HIS:HB2	2.17	0.45
1:B:148:LEU:O	1:B:149:HIS:ND1	2.49	0.45
1:B:356:ARG:HB3	1:B:421:HIS:NE2	2.31	0.45
1:B:641:ARG:HH21	1:B:644:VAL:HG21	1.82	0.45
1:B:643:LEU:HD21	1:B:649:MET:HE2	1.98	0.45
1:C:38:TYR:O	1:C:42:ARG:HD3	2.17	0.45
1:C:497:TYR:HD1	1:C:499:VAL:HG23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:791:ARG:O	1:C:794:ARG:HG3	2.15	0.45
1:D:30:GLU:HG2	1:D:34:PHE:CE2	2.51	0.45
1:D:723:HIS:O	1:D:727:TRP:CE3	2.70	0.45
1:E:34:PHE:O	1:E:37:GLN:HG2	2.15	0.45
1:F:143:ILE:O	1:F:147:CYS:N	2.47	0.45
1:F:205:LYS:HG2	1:F:209:GLN:OE1	2.16	0.45
1:F:511:ARG:NH2	1:F:558:LEU:HD13	2.31	0.45
1:F:729:GLY:HA2	1:F:734:ALA:HB2	1.99	0.45
1:G:537:THR:HG1	1:G:540:ILE:H	1.63	0.45
1:H:522:LEU:O	1:H:523:ARG:NE	2.49	0.45
1:K:132:LEU:HD12	1:K:133:TYR:N	2.32	0.45
1:K:443:LYS:HG3	1:K:633:TRP:CZ2	2.52	0.45
1:L:160:SER:OG	1:L:162:GLU:OE2	2.34	0.45
1:L:654:LYS:HG3	1:L:655:LEU:HD12	1.98	0.45
2:M:125:VAL:O	2:M:129:LEU:HG	2.17	0.45
2:M:283:LEU:HD22	2:M:286:ARG:HH21	1.75	0.45
2:M:302:PHE:O	2:M:307:ARG:CZ	2.63	0.45
2:M:364:ALA:HA	2:M:367:TYR:HD2	1.81	0.45
2:M:529:GLU:O	2:M:532:ILE:CG1	2.65	0.45
2:M:544:ILE:O	2:M:544:ILE:HG13	2.15	0.45
2:M:564:ASP:O	2:M:565:GLU:HG2	2.16	0.45
2:M:776:ARG:HD2	2:M:857:PRO:HD2	1.98	0.45
2:M:841:LEU:O	2:M:845:LEU:HG	2.17	0.45
2:N:153:TRP:CD2	2:N:157:LEU:HD11	2.52	0.45
2:N:227:PHE:HD2	2:N:260:LEU:CD2	2.14	0.45
2:N:450:ILE:CG2	2:N:466:LEU:HD21	2.43	0.45
2:N:502:LEU:HD11	2:N:626:ILE:CG2	2.47	0.45
2:O:70:ASN:CG	2:O:247:VAL:HG22	2.37	0.45
2:O:73:PHE:HA	2:O:250:ALA:O	2.17	0.45
2:O:133:VAL:CG1	2:O:137:LEU:HD12	2.45	0.45
2:O:258:SER:O	2:O:261:ILE:HG22	2.17	0.45
2:O:271:LYS:HG3	2:O:272:THR:N	2.31	0.45
2:O:455:LYS:HD2	2:O:532:ILE:CD1	2.42	0.45
2:P:49:ILE:HD11	2:P:214:LYS:NZ	2.31	0.45
2:P:85:PHE:O	2:P:89:VAL:HG23	2.17	0.45
2:P:150:LYS:CG	2:P:154:GLN:HE22	2.29	0.45
2:P:168:THR:CG2	2:Q:172:TYR:HD2	2.22	0.45
2:P:600:ALA:O	2:P:604:MET:HE1	2.17	0.45
2:P:654:THR:HB	2:Q:743:PHE:HD1	1.80	0.45
2:Q:208:CYS:HB2	2:Q:245:LYS:CE	2.47	0.45
2:Q:254:LEU:HA	2:Q:254:LEU:HD23	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:262:ARG:NH2	2:Q:266:TYR:OH	2.50	0.45
2:Q:328:ILE:O	2:Q:329:LYS:HB2	2.16	0.45
2:Q:783:LEU:CD2	2:Q:846:ILE:HG22	2.47	0.45
2:Q:816:GLU:HB3	2:Q:820:LYS:HZ3	1.80	0.45
2:R:41:LEU:HD12	2:R:308:ILE:HG12	1.97	0.45
2:R:170:LYS:HE3	2:R:170:LYS:CA	2.36	0.45
2:R:304:VAL:HA	2:R:307:ARG:CG	2.46	0.45
2:R:760:ALA:HB1	2:R:769:SER:O	2.16	0.45
2:S:232:ASP:CA	2:S:235:GLU:OE1	2.62	0.45
2:S:271:LYS:O	2:S:274:LEU:N	2.50	0.45
2:S:732:LEU:O	2:S:736:LYS:HE2	2.16	0.45
1:A:55:TYR:CE2	1:L:550:SER:CB	2.99	0.45
1:B:302:TYR:CE1	1:B:306:LEU:HD21	2.52	0.45
1:B:351:ARG:O	1:B:415:GLU:OE1	2.34	0.45
1:D:348:SER:N	1:D:412:LYS:O	2.40	0.45
1:D:469:ALA:O	1:D:470:ALA:CB	2.65	0.45
1:D:689:GLN:O	1:D:693:MET:SD	2.75	0.45
1:E:301:GLN:O	1:E:304:THR:OG1	2.30	0.45
1:E:415:GLU:N	1:E:415:GLU:OE1	2.50	0.45
1:F:361:SER:HA	1:F:445:GLN:OE1	2.17	0.45
1:F:486:VAL:HG21	1:F:633:TRP:CD1	2.52	0.45
1:G:564:TRP:NE1	1:G:568:ARG:HG2	2.32	0.45
1:G:668:GLN:O	1:G:671:GLU:HB2	2.16	0.45
1:H:717:ARG:HA	1:H:717:ARG:NE	2.32	0.45
1:J:285:PRO:HB2	1:J:288:LEU:HD13	1.99	0.45
1:J:324:THR:O	1:J:328:GLU:OE1	2.35	0.45
1:J:665:VAL:O	1:J:669:ARG:HG3	2.17	0.45
1:J:718:ASN:OD1	1:J:718:ASN:C	2.55	0.45
1:K:489:LYS:HB3	1:K:632:LEU:HD22	1.98	0.45
1:K:514:ASP:OD2	1:K:692:VAL:HG22	2.16	0.45
1:K:649:MET:CE	1:K:653:LEU:HD12	2.47	0.45
2:M:103:ASN:N	2:M:214:LYS:HZ3	2.12	0.45
2:M:159:GLN:HA	2:M:162:ARG:HG2	1.98	0.45
2:M:238:ARG:CD	2:M:239:LYS:HZ3	2.30	0.45
2:M:422:TYR:O	2:M:426:LEU:CB	2.52	0.45
2:M:603:ALA:CB	2:M:850:ILE:HG23	2.46	0.45
2:M:818:GLU:HA	2:M:821:ILE:CD1	2.47	0.45
2:N:313:MET:CG	2:N:372:LEU:HD11	2.45	0.45
2:N:496:LYS:O	2:N:500:MET:HE1	2.16	0.45
2:N:584:MET:CG	2:N:585:PRO:HD2	2.46	0.45
2:O:107:LEU:CD1	2:O:216:ILE:HG23	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:132:MET:O	2:O:136:LYS:HD3	2.17	0.45
2:O:489:ASN:O	2:O:496:LYS:HE3	2.17	0.45
2:O:733:LEU:HD22	2:O:794:HIS:HA	1.97	0.45
2:P:41:LEU:HD23	2:P:45:ILE:HD13	1.99	0.45
2:P:431:ARG:HH22	2:R:282:ARG:HD2	1.81	0.45
2:Q:133:VAL:HB	2:Q:153:TRP:CZ2	2.51	0.45
2:Q:239:LYS:HE2	2:Q:239:LYS:CA	2.47	0.45
2:Q:459:ASP:O	2:Q:460:PHE:HB2	2.17	0.45
2:Q:549:HIS:CD2	2:Q:553:ARG:HE	2.35	0.45
2:S:120:PRO:HB3	2:S:167:LEU:HD21	1.97	0.45
2:S:151:GLU:HG2	2:S:152:GLN:N	2.31	0.45
2:S:227:PHE:HD2	2:S:260:LEU:CD2	2.28	0.45
2:S:374:GLN:NE2	2:S:476:ARG:HH12	2.14	0.45
2:S:428:ASN:CG	2:S:477:ASN:HD21	2.20	0.45
2:S:713:VAL:O	2:S:717:LEU:CD1	2.64	0.45
2:S:764:ARG:HG3	2:S:768:GLN:OE1	2.17	0.45
2:S:819:LYS:HG3	2:S:820:LYS:N	2.30	0.45
1:A:644:VAL:HA	1:A:653:LEU:HD11	1.98	0.45
1:B:97:GLU:O	1:B:101:LEU:HG	2.17	0.45
1:C:34:PHE:HA	1:C:37:GLN:HG3	1.98	0.45
1:C:124:GLN:NE2	1:C:125:GLU:O	2.49	0.45
1:C:155:LEU:HD21	1:C:748:ASP:HB3	1.98	0.45
1:C:608:GLU:OE1	1:C:608:GLU:N	2.44	0.45
1:D:34:PHE:O	1:D:37:GLN:HG3	2.17	0.45
1:D:176:LEU:O	1:D:180:GLU:OE1	2.35	0.45
1:D:446:ALA:HB2	1:D:483:LEU:HD11	1.99	0.45
1:D:551:MET:SD	1:D:552:THR:N	2.90	0.45
1:D:664:ASN:HA	1:D:667:LYS:HD3	1.98	0.45
1:E:554:GLU:OE1	1:E:669:ARG:O	2.34	0.45
1:F:34:PHE:O	1:F:37:GLN:HG3	2.17	0.45
1:F:672:TYR:HB3	1:G:55:TYR:CE2	2.50	0.45
1:G:125:GLU:OE1	1:G:125:GLU:N	2.44	0.45
1:H:94:MET:HG2	1:H:94:MET:O	2.15	0.45
1:H:615:GLU:OE2	1:H:619:LEU:HD23	2.17	0.45
1:I:781:ARG:HH12	1:I:782:LYS:HD3	1.82	0.45
1:J:554:GLU:O	1:J:558:LEU:HD13	2.17	0.45
1:J:656:TYR:O	1:J:660:LEU:HD13	2.17	0.45
1:K:19:SER:OG	1:K:235:GLN:O	2.27	0.45
1:K:22:GLU:HB2	1:K:25:LEU:HD11	1.98	0.45
1:L:71:ALA:O	1:L:75:LEU:HD13	2.16	0.45
1:L:299:GLN:NE2	1:L:303:LEU:CD1	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:346:VAL:HG12	1:L:412:LYS:HD2	1.99	0.45
1:L:725:PHE:CZ	1:L:767:VAL:HG11	2.52	0.45
2:M:147:ARG:HD3	2:M:148:LYS:H	1.81	0.45
2:M:231:TRP:CZ2	2:M:264:LYS:HD2	2.51	0.45
2:M:763:GLY:HA3	2:M:859:GLY:O	2.17	0.45
2:N:114:LYS:HE3	2:O:239:LYS:HG3	1.99	0.45
2:N:180:ALA:HA	2:N:194:GLN:NE2	2.32	0.45
2:N:261:ILE:HD12	2:N:294:GLU:HG2	1.95	0.45
2:N:271:LYS:CG	2:N:272:THR:N	2.80	0.45
2:N:271:LYS:CA	2:N:274:LEU:HG	2.47	0.45
2:N:275:GLU:O	2:N:278:LYS:CE	2.65	0.45
2:N:511:PHE:O	2:N:515:VAL:N	2.48	0.45
2:N:581:ARG:HD2	2:N:581:ARG:N	2.30	0.45
2:N:843:PHE:HA	2:N:846:ILE:HG12	1.99	0.45
2:O:197:SER:HA	2:O:240:PHE:HD1	1.82	0.45
2:O:525:ARG:HA	2:O:525:ARG:NE	2.32	0.45
2:P:41:LEU:HA	2:P:44:SER:OG	2.17	0.45
2:P:42:VAL:HG12	2:P:46:ARG:NE	2.32	0.45
2:P:123:VAL:O	2:P:126:THR:OG1	2.26	0.45
2:P:497:PHE:HD1	2:P:729:PRO:CB	2.28	0.45
2:P:574:VAL:HG11	2:P:922:ILE:HG12	1.99	0.45
2:P:588:TYR:HB3	2:P:921:THR:HG1	1.81	0.45
2:Q:314:LEU:HD11	2:Q:319:GLU:OE2	2.16	0.45
2:Q:593:ILE:HG23	2:Q:601:LYS:NZ	2.31	0.45
2:Q:780:LEU:HD13	2:Q:814:VAL:CG2	2.34	0.45
2:R:41:LEU:CD2	2:R:45:ILE:HD13	2.46	0.45
2:R:73:PHE:HE1	2:R:257:TYR:OH	2.00	0.45
2:R:105:LYS:HG3	2:R:213:CYS:HB3	1.98	0.45
2:R:135:ASP:HB3	2:R:138:LYS:HZ3	1.80	0.45
2:R:201:GLU:O	2:R:204:VAL:HG12	2.16	0.45
2:R:293:LEU:C	2:R:296:GLN:HE21	2.19	0.45
2:R:319:GLU:O	2:R:369:ASN:ND2	2.47	0.45
2:R:371:LEU:HD21	2:R:480:ILE:CD1	2.47	0.45
2:R:466:LEU:HD13	2:R:483:ALA:N	2.32	0.45
2:R:487:SER:HB2	2:R:491:GLN:HE21	1.80	0.45
2:R:575:GLN:HG3	2:R:619:PHE:CE2	2.52	0.45
2:S:389:LYS:HG3	2:S:416:LEU:CG	2.47	0.45
2:S:501:LEU:HD13	2:S:734:ILE:CG2	2.40	0.45
2:S:532:ILE:O	2:S:536:VAL:HG23	2.17	0.45
1:A:149:HIS:O	1:A:757:LEU:HD21	2.17	0.45
1:B:230:TRP:CE3	1:B:245:ILE:HG21	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:613:LEU:HD22	1:B:636:GLU:OE1	2.17	0.45
1:C:333:SER:O	1:C:337:ARG:HG3	2.16	0.45
1:C:527:ARG:NE	1:C:704:GLU:OE2	2.49	0.45
1:D:150:GLU:OE1	1:D:747:SER:OG	2.21	0.45
1:E:93:PRO:HG2	1:E:94:MET:SD	2.57	0.45
1:E:507:ILE:CD1	1:E:688:LEU:HD13	2.47	0.45
1:F:5:LEU:HD12	1:F:5:LEU:N	2.32	0.45
1:F:27:GLU:O	1:F:30:GLU:HB3	2.16	0.45
1:F:587:LEU:O	1:F:591:VAL:HG23	2.17	0.45
1:F:794:ARG:CG	1:F:795:PHE:N	2.79	0.45
1:G:173:GLU:O	1:G:177:ARG:HG2	2.17	0.45
1:H:42:ARG:O	1:H:42:ARG:HD2	2.17	0.45
1:H:585:VAL:O	1:H:589:HIS:ND1	2.48	0.45
1:I:401:LEU:HD11	1:I:459:LEU:HD23	1.98	0.45
1:J:102:MET:SD	1:J:753:PHE:HB2	2.57	0.45
1:J:219:CYS:HA	1:J:272:TRP:NE1	2.31	0.45
1:K:302:TYR:CZ	1:K:306:LEU:HD21	2.52	0.45
1:L:195:ILE:HG23	1:L:196:ASP:H	1.80	0.45
1:L:416:LEU:HD21	1:L:418:LEU:HD21	1.98	0.45
2:M:116:PRO:HG2	2:M:119:GLU:OE2	2.16	0.45
2:M:170:LYS:HA	2:M:170:LYS:CE	2.46	0.45
2:M:200:PHE:HA	2:M:203:LEU:HD12	1.98	0.45
2:M:543:ARG:O	2:M:543:ARG:HG2	2.17	0.45
2:M:553:ARG:O	2:M:557:VAL:HG23	2.16	0.45
2:M:560:ASN:O	2:M:561:SER:HB3	2.17	0.45
2:M:727:ILE:HG23	2:M:794:HIS:HE1	1.77	0.45
2:M:806:LEU:CG	2:M:808:LEU:HD21	2.47	0.45
2:M:854:PHE:O	2:M:857:PRO:HD3	2.17	0.45
2:M:856:PHE:CD1	2:M:892:TRP:HZ3	2.35	0.45
2:N:313:MET:HG3	2:N:372:LEU:CD1	2.44	0.45
2:N:331:LYS:HB3	2:N:336:MET:HG3	1.98	0.45
2:N:333:GLU:HB2	2:N:336:MET:HE2	1.99	0.45
2:N:385:ASP:O	2:N:389:LYS:HG2	2.17	0.45
2:N:559:ALA:HA	2:N:570:PHE:HE2	1.81	0.45
2:N:657:VAL:HG11	2:N:661:SER:HB3	1.99	0.45
2:N:817:PHE:O	2:N:821:ILE:HG13	2.17	0.45
2:O:35:LYS:HG3	2:O:36:SER:N	2.32	0.45
2:O:287:GLY:O	2:O:290:VAL:N	2.50	0.45
2:O:373:LYS:NZ	2:O:473:GLU:HB2	2.32	0.45
2:O:421:LEU:CD2	2:O:480:ILE:HG22	2.47	0.45
2:O:858:ILE:HA	2:O:895:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:83:THR:HA	2:P:86:ILE:CD1	2.47	0.45
2:P:273:LEU:HG	2:P:286:ARG:HH12	1.82	0.45
2:P:561:SER:N	2:P:562:PRO:CD	2.80	0.45
2:P:787:LEU:HB2	2:P:842:PHE:CE1	2.52	0.45
2:Q:183:LEU:O	2:Q:183:LEU:HD12	2.17	0.45
2:Q:302:PHE:HB3	2:Q:307:ARG:NH1	2.30	0.45
2:Q:494:LEU:O	2:Q:494:LEU:HD23	2.17	0.45
2:Q:736:LYS:HG3	2:Q:793:TYR:HE1	1.78	0.45
2:R:73:PHE:HD1	2:R:250:ALA:CB	2.29	0.45
2:R:329:LYS:H	2:R:344:VAL:HG13	1.81	0.45
2:R:497:PHE:CD1	2:R:729:PRO:HB3	2.51	0.45
2:S:178:SER:O	2:S:182:LYS:HG2	2.17	0.45
2:S:357:ASN:HD22	2:S:728:ARG:NH2	2.15	0.45
2:S:467:ARG:NH1	2:S:469:GLN:HG2	2.31	0.45
2:S:736:LYS:HB3	2:S:789:GLU:CG	2.46	0.45
1:A:365:LYS:HD3	1:A:365:LYS:N	2.31	0.45
1:A:542:LYS:HG3	1:A:677:LEU:HD11	1.99	0.45
1:B:606:VAL:HG22	1:B:652:PRO:HA	1.98	0.45
1:C:651:ARG:O	1:C:654:LYS:HG3	2.17	0.45
1:C:678:GLU:OE1	1:C:678:GLU:O	2.35	0.45
1:E:791:ARG:HH12	1:F:141:ASP:HA	1.82	0.45
1:E:792:ILE:HG21	1:F:138:THR:HG22	1.99	0.45
1:F:111:ILE:HD13	1:F:132:LEU:HD11	1.99	0.45
1:F:246:LEU:HD11	1:F:249:GLY:N	2.32	0.45
1:G:221:VAL:HG22	1:G:279:LYS:HE3	1.99	0.45
1:H:647:THR:HG23	1:H:648:GLY:N	2.32	0.45
1:H:659:TRP:CD1	1:H:669:ARG:HD2	2.52	0.45
1:H:752:ILE:HG23	1:H:755:ALA:HB2	1.99	0.45
1:I:583:GLU:O	1:I:587:LEU:HD13	2.17	0.45
1:J:456:GLU:OE2	1:J:458:ARG:HB2	2.17	0.45
1:J:659:TRP:HD1	1:J:660:LEU:HD12	1.81	0.45
1:K:58:GLN:O	1:K:61:LYS:HG2	2.17	0.45
1:K:151:THR:OG1	1:K:745:LEU:O	2.34	0.45
1:K:562:PHE:HE1	1:K:565:ARG:HH21	1.65	0.45
1:K:739:VAL:O	1:K:741:MET:CE	2.65	0.45
1:L:165:TRP:CZ3	1:L:299:GLN:HA	2.52	0.45
1:L:187:GLU:OE1	1:L:187:GLU:N	2.45	0.45
1:L:299:GLN:OE1	1:L:300:ASN:OD1	2.35	0.45
2:M:117:ARG:NH1	2:M:118:HIS:H	2.08	0.45
2:M:368:VAL:HA	2:M:371:LEU:HB3	1.99	0.45
2:M:436:TYR:CZ	2:N:255:ARG:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:561:SER:H	2:M:562:PRO:HD2	1.82	0.45
2:M:711:THR:HA	2:M:714:GLU:CG	2.46	0.45
2:M:913:THR:O	2:M:915:THR:HG23	2.17	0.45
2:N:69:ARG:HA	2:N:69:ARG:HH11	1.78	0.45
2:N:103:ASN:HB2	2:N:214:LYS:HZ2	1.82	0.45
2:N:271:LYS:CG	2:N:272:THR:H	2.30	0.45
2:N:279:GLU:OE2	2:N:282:ARG:NH1	2.49	0.45
2:N:370:GLU:CG	2:N:476:ARG:HD2	2.46	0.45
2:N:486:VAL:HG23	2:N:487:SER:N	2.32	0.45
2:N:596:GLU:OE2	2:N:915:THR:N	2.45	0.45
2:N:833:LYS:CE	2:N:838:THR:H	2.30	0.45
2:O:452:THR:C	2:O:456:GLN:HE22	2.19	0.45
2:O:638:GLU:OE2	2:O:641:ALA:N	2.50	0.45
2:O:763:GLY:HA2	2:O:773:LYS:HE2	1.99	0.45
2:P:257:TYR:CD2	2:P:302:PHE:HE2	2.33	0.45
2:P:415:ASN:HA	2:P:418:ARG:CD	2.47	0.45
2:P:569:VAL:CB	2:P:574:VAL:HG22	2.47	0.45
2:P:576:LEU:HD11	2:P:591:PHE:HB3	1.98	0.45
2:Q:117:ARG:HG2	2:Q:118:HIS:ND1	2.32	0.45
2:Q:540:SER:O	2:Q:543:ARG:HG2	2.17	0.45
2:Q:612:ALA:HB3	2:Q:655:CYS:C	2.38	0.45
2:Q:732:LEU:HD11	2:Q:736:LYS:CE	2.46	0.45
2:Q:887:LEU:CD2	2:Q:892:TRP:HA	2.46	0.45
2:R:110:ILE:HG21	2:R:220:PHE:CD1	2.52	0.45
2:R:218:ILE:HG13	2:R:220:PHE:HE2	1.82	0.45
2:R:329:LYS:HD3	2:R:343:ASP:CA	2.47	0.45
2:R:455:LYS:HE3	2:R:532:ILE:HD12	1.98	0.45
2:R:548:SER:N	2:R:631:ASP:OD2	2.49	0.45
2:R:568:GLY:HA3	2:R:923:VAL:HG13	1.99	0.45
2:R:658:PRO:HB2	2:R:660:TRP:NE1	2.32	0.45
2:R:872:THR:CA	2:R:892:TRP:HZ2	2.25	0.45
2:S:130:ASN:HA	2:S:153:TRP:CZ2	2.51	0.45
2:S:271:LYS:HA	2:S:274:LEU:HD12	1.99	0.45
2:S:524:ASP:HB3	2:S:527:LYS:HB3	1.99	0.45
2:S:548:SER:O	2:S:552:ASN:ND2	2.50	0.45
1:D:200:THR:OG1	1:D:203:ILE:HD12	2.17	0.44
1:D:342:HIS:NE2	1:D:345:GLY:O	2.45	0.44
1:D:784:ALA:O	1:D:785:GLU:C	2.54	0.44
1:E:351:ARG:HG3	1:E:415:GLU:OE2	2.17	0.44
1:G:190:GLN:O	1:G:194:GLN:HG2	2.17	0.44
1:H:581:ALA:HB1	1:H:600:ILE:HG21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:785:GLU:HA	1:J:788:GLU:OE1	2.18	0.44
1:L:280:TRP:CG	1:L:284:ALA:HB2	2.52	0.44
2:M:515:VAL:O	2:M:515:VAL:HG12	2.17	0.44
2:M:745:LEU:CA	2:M:748:VAL:HG22	2.44	0.44
2:M:755:ARG:CD	2:M:757:TYR:HE2	2.26	0.44
2:M:818:GLU:HA	2:M:821:ILE:HG12	1.99	0.44
2:N:202:GLU:HG2	2:N:205:LYS:HZ2	1.82	0.44
2:N:308:ILE:HG23	2:N:308:ILE:O	2.17	0.44
2:N:425:MET:HE1	2:N:478:CYS:H	1.82	0.44
2:N:511:PHE:O	2:N:516:THR:HG23	2.17	0.44
2:N:533:SER:O	2:N:536:VAL:HG22	2.17	0.44
2:N:538:TYR:HH	2:N:553:ARG:HH12	1.65	0.44
2:N:579:LYS:CE	2:N:581:ARG:HB2	2.47	0.44
2:N:621:SER:OG	2:N:624:ASN:ND2	2.51	0.44
2:N:833:LYS:HZ1	2:N:838:THR:N	2.10	0.44
2:N:861:ILE:HG23	2:N:871:GLU:CD	2.37	0.44
2:O:75:ASP:OD1	2:O:309:GLN:HA	2.17	0.44
2:O:253:ASP:H	2:O:256:LEU:HD21	1.82	0.44
2:O:304:VAL:HA	2:O:307:ARG:NE	2.32	0.44
2:O:815:ASP:O	2:O:819:LYS:HE2	2.17	0.44
2:O:855:ILE:HD11	2:O:878:ILE:HD13	1.99	0.44
2:P:113:THR:HG21	2:P:225:THR:HG22	1.98	0.44
2:P:351:ALA:HB2	2:P:387:TYR:OH	2.17	0.44
2:Q:376:VAL:CG2	2:Q:377:ARG:HH11	2.30	0.44
2:Q:490:CYS:SG	2:Q:497:PHE:HA	2.57	0.44
2:Q:538:TYR:HD2	2:Q:539:MET:SD	2.40	0.44
2:Q:642:ILE:HG22	2:Q:710:ILE:HG23	1.99	0.44
2:Q:713:VAL:HG22	2:Q:849:PRO:HG2	1.99	0.44
2:Q:891:GLU:HG2	2:Q:910:PHE:CZ	2.51	0.44
2:R:76:GLY:HA3	2:R:82:LYS:CE	2.29	0.44
2:R:135:ASP:CB	2:R:138:LYS:HZ3	2.30	0.44
2:R:225:THR:HA	2:S:297:TYR:OH	2.17	0.44
2:R:545:GLU:N	2:R:545:GLU:OE1	2.51	0.44
2:R:568:GLY:O	2:R:574:VAL:HA	2.17	0.44
2:R:587:GLY:HA2	2:R:589:LYS:HZ2	1.82	0.44
2:R:724:GLU:O	2:R:727:ILE:HG12	2.17	0.44
2:R:727:ILE:HG13	2:R:727:ILE:O	2.17	0.44
2:R:756:LEU:HD22	2:R:922:ILE:CD1	2.47	0.44
2:R:894:TYR:HA	2:R:897:LYS:CG	2.41	0.44
2:S:108:PRO:HG2	2:S:131:LYS:HZ3	1.77	0.44
2:S:432:ALA:HB1	2:S:434:LEU:HD21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:866:LYS:NZ	2:S:869:ASN:HD21	2.15	0.44
1:A:5:LEU:O	1:A:5:LEU:HD12	2.17	0.44
1:A:401:LEU:HD23	1:A:458:ARG:HB2	1.99	0.44
1:A:464:ARG:HG2	1:A:795:PHE:O	2.18	0.44
1:B:728:MET:HE3	1:B:782:LYS:HG3	1.99	0.44
1:C:10:VAL:HG12	1:C:14:ARG:HD2	1.98	0.44
1:C:88:PRO:O	1:C:89:LYS:HD3	2.17	0.44
1:C:365:LYS:HA	1:C:368:LYS:HZ1	1.82	0.44
1:C:557:LEU:O	1:C:561:VAL:HG23	2.17	0.44
1:E:172:PRO:CB	1:E:208:LEU:HD21	2.47	0.44
1:E:518:ARG:NH2	1:E:565:ARG:NH1	2.65	0.44
1:E:791:ARG:NH1	1:F:141:ASP:HA	2.32	0.44
1:F:199:LEU:HD12	1:F:207:ARG:CZ	2.47	0.44
1:F:659:TRP:HA	1:F:665:VAL:HG11	1.98	0.44
1:F:715:GLN:O	1:F:717:ARG:NH1	2.51	0.44
1:G:90:ILE:CG1	1:G:132:LEU:HD23	2.48	0.44
1:G:534:ILE:HD11	1:G:692:VAL:HG11	1.98	0.44
1:G:765:PHE:O	1:G:769:THR:HG23	2.16	0.44
1:H:693:MET:HG2	1:H:741:MET:CE	2.47	0.44
1:I:380:TYR:CE2	1:I:414:VAL:HG12	2.51	0.44
1:I:441:ASP:O	1:I:445:GLN:NE2	2.46	0.44
1:L:693:MET:HG3	1:L:741:MET:HE1	1.98	0.44
2:M:120:PRO:HB2	2:M:122:LEU:HB2	1.99	0.44
2:M:234:LEU:CB	2:M:238:ARG:HH21	2.30	0.44
2:M:446:LEU:CD1	2:M:450:ILE:HD11	2.47	0.44
2:M:447:CYS:HG	2:M:499:GLN:HE22	1.59	0.44
2:M:493:SER:HA	2:M:724:GLU:OE2	2.17	0.44
2:M:516:THR:HG22	2:M:516:THR:O	2.16	0.44
2:M:747:ASN:CG	2:M:811:VAL:HG21	2.37	0.44
2:M:750:ASP:OD1	2:M:753:LYS:HE2	2.16	0.44
2:N:266:TYR:CE2	2:N:290:VAL:HG21	2.52	0.44
2:N:333:GLU:H	2:N:336:MET:CG	2.30	0.44
2:N:344:VAL:HG23	2:N:345:ARG:H	1.82	0.44
2:N:353:ARG:HE	2:N:360:GLU:HA	1.81	0.44
2:N:576:LEU:HD23	2:N:618:ASP:CG	2.38	0.44
2:N:713:VAL:O	2:N:717:LEU:HD13	2.17	0.44
2:O:102:VAL:HG12	2:O:102:VAL:O	2.16	0.44
2:O:161:GLN:HA	2:O:164:LEU:HG	2.00	0.44
2:O:376:VAL:HG23	2:O:377:ARG:N	2.32	0.44
2:O:452:THR:CA	2:O:455:LYS:NZ	2.75	0.44
2:P:379:LEU:C	2:P:382:VAL:HG22	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:464:PHE:CD1	2:P:735:GLY:HA3	2.52	0.44
2:P:511:PHE:HD1	2:P:535:TYR:CD1	2.34	0.44
2:P:584:MET:SD	2:P:921:THR:HG21	2.58	0.44
2:P:629:ILE:HD11	2:P:850:ILE:HB	2.00	0.44
2:P:707:SER:HA	2:P:710:ILE:HD11	1.99	0.44
2:Q:131:LYS:HE3	2:R:191:ILE:N	2.32	0.44
2:Q:218:ILE:HB	2:Q:248:VAL:HG22	1.98	0.44
2:Q:273:LEU:HD12	2:Q:276:GLN:HE21	1.82	0.44
2:Q:314:LEU:CD2	2:Q:373:LYS:HE3	2.47	0.44
2:Q:473:GLU:HG3	2:Q:476:ARG:HH11	1.82	0.44
2:Q:704:THR:OG1	2:Q:705:GLU:N	2.49	0.44
2:Q:852:HIS:HB2	2:Q:853:PRO:HD3	1.99	0.44
2:R:38:ARG:HB2	2:R:89:VAL:HG22	1.98	0.44
2:R:110:ILE:HA	2:R:128:ARG:HH12	1.82	0.44
2:R:114:LYS:HA	2:S:239:LYS:HE3	1.98	0.44
2:R:206:ARG:O	2:R:210:ILE:HG12	2.17	0.44
2:R:313:MET:HG2	2:R:314:LEU:N	2.31	0.44
2:S:776:ARG:CZ	2:S:861:ILE:HG12	2.46	0.44
1:A:651:ARG:HB2	1:A:652:PRO:HD3	1.98	0.44
1:C:96:SER:HA	1:C:99:GLN:OE1	2.16	0.44
1:D:101:LEU:HG	1:D:105:VAL:HG22	2.00	0.44
1:D:440:LYS:O	1:D:443:LYS:HG2	2.17	0.44
1:E:465:GLY:HA2	1:E:494:HIS:O	2.17	0.44
1:E:540:ILE:HD12	1:E:543:ARG:CZ	2.48	0.44
1:F:149:HIS:CE1	1:F:351:ARG:HB3	2.52	0.44
1:F:357:PHE:C	1:F:421:HIS:HD1	2.20	0.44
1:F:605:GLN:HA	1:F:608:GLU:OE1	2.16	0.44
1:H:724:ILE:HG13	1:H:725:PHE:N	2.32	0.44
1:I:112:ALA:O	1:I:116:VAL:HG23	2.17	0.44
1:I:418:LEU:HD13	1:I:462:TRP:HB3	1.98	0.44
1:I:424:LYS:HD2	1:I:471:ASN:O	2.17	0.44
1:I:499:VAL:O	1:I:531:CYS:N	2.43	0.44
1:I:591:VAL:HG13	1:I:592:PHE:N	2.33	0.44
1:K:289:GLU:O	1:K:293:TRP:HD1	2.00	0.44
1:K:535:GLY:O	1:K:726:ARG:HD3	2.16	0.44
1:L:601:THR:O	1:L:604:ASP:HB2	2.17	0.44
1:L:693:MET:HG3	1:L:741:MET:SD	2.57	0.44
2:M:41:LEU:HD23	2:M:41:LEU:C	2.37	0.44
2:M:330:VAL:HG22	2:M:331:LYS:N	2.32	0.44
2:M:483:ALA:O	2:M:486:VAL:HG22	2.16	0.44
2:M:788:VAL:HG23	2:M:789:GLU:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:490:CYS:SG	2:N:500:MET:HE3	2.58	0.44
2:N:570:PHE:CZ	2:N:619:PHE:HE1	2.36	0.44
2:N:603:ALA:CB	2:N:850:ILE:HG23	2.47	0.44
2:N:833:LYS:CE	2:N:834:THR:O	2.66	0.44
2:N:843:PHE:O	2:N:846:ILE:CG1	2.65	0.44
2:O:112:PRO:HG2	2:O:223:ILE:HG22	2.00	0.44
2:O:287:GLY:O	2:O:291:GLU:OE1	2.36	0.44
2:O:331:LYS:CA	2:O:336:MET:SD	3.03	0.44
2:O:468:PRO:O	2:O:476:ARG:HG3	2.17	0.44
2:O:763:GLY:O	2:O:862:ASN:HA	2.17	0.44
2:P:113:THR:HB	2:P:225:THR:CG2	2.47	0.44
2:P:207:ALA:HA	2:P:210:ILE:HG12	1.99	0.44
2:P:381:GLN:NE2	2:Q:304:VAL:HG22	2.31	0.44
2:P:494:LEU:CD1	2:P:720:VAL:HG13	2.39	0.44
2:P:719:ASN:HA	2:P:722:GLU:OE2	2.17	0.44
2:P:828:LEU:HD11	2:P:839:HIS:HE1	1.83	0.44
2:P:865:VAL:HG23	2:P:866:LYS:H	1.81	0.44
2:Q:86:ILE:HG23	2:Q:87:ASN:N	2.32	0.44
2:Q:161:GLN:HG3	2:R:177:PHE:CE2	2.52	0.44
2:Q:377:ARG:CA	2:Q:380:MET:HG2	2.45	0.44
2:Q:437:GLU:HG3	2:Q:439:HIS:CE1	2.52	0.44
2:Q:515:VAL:HG21	2:Q:535:TYR:CD1	2.52	0.44
2:Q:776:ARG:HH22	2:Q:871:GLU:CD	2.21	0.44
2:R:105:LYS:NZ	2:R:211:LEU:O	2.37	0.44
2:R:261:ILE:HG13	2:R:262:ARG:N	2.32	0.44
2:R:467:ARG:HG3	2:R:469:GLN:HB2	2.00	0.44
2:S:104:ILE:HD12	2:S:215:ALA:CB	2.41	0.44
2:S:380:MET:O	2:S:383:LEU:HG	2.18	0.44
2:S:771:ALA:HB2	2:S:922:ILE:HD11	1.99	0.44
2:S:828:LEU:HD21	2:S:838:THR:HG23	2.00	0.44
2:S:894:TYR:CE2	2:S:910:PHE:HE2	2.35	0.44
1:B:141:ASP:OD2	1:H:792:ILE:HA	2.18	0.44
1:B:149:HIS:O	1:B:757:LEU:HD21	2.18	0.44
1:B:739:VAL:HG12	1:B:740:PRO:HD2	1.99	0.44
1:C:272:TRP:CE2	1:C:276:LEU:HD11	2.52	0.44
1:C:649:MET:C	1:C:652:PRO:HD2	2.38	0.44
1:D:351:ARG:O	1:D:415:GLU:OE1	2.36	0.44
1:E:468:ALA:HB3	1:E:497:TYR:CD1	2.52	0.44
1:E:500:GLY:HA3	1:E:513:ILE:HD11	1.99	0.44
1:G:215:ARG:HD3	1:G:258:TRP:HH2	1.82	0.44
1:H:723:HIS:O	1:H:727:TRP:CE3	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:70:VAL:O	1:K:74:ARG:HG3	2.17	0.44
1:K:324:THR:HG23	1:K:327:ARG:NH2	2.32	0.44
1:L:30:GLU:OE1	1:L:53:TRP:NE1	2.49	0.44
1:L:508:SER:OG	1:L:551:MET:CE	2.64	0.44
2:M:205:LYS:O	2:M:209:GLU:HG3	2.17	0.44
2:M:248:VAL:HG12	2:M:249:VAL:N	2.32	0.44
2:M:268:ASN:CB	2:S:227:PHE:CZ	2.98	0.44
2:M:312:THR:HG22	2:M:315:GLN:CG	2.47	0.44
2:M:356:LEU:CB	2:M:358:LEU:HB2	2.46	0.44
2:M:443:MET:HE1	2:M:500:MET:CE	2.47	0.44
2:M:657:VAL:CG1	2:M:658:PRO:HD2	2.46	0.44
2:M:711:THR:C	2:M:714:GLU:HG3	2.37	0.44
2:N:83:THR:HA	2:N:86:ILE:CG1	2.47	0.44
2:O:218:ILE:O	2:O:248:VAL:HA	2.16	0.44
2:O:285:GLU:OE1	2:O:286:ARG:NH2	2.50	0.44
2:P:136:LYS:HD2	2:P:136:LYS:C	2.38	0.44
2:P:235:GLU:CD	2:P:238:ARG:HD3	2.38	0.44
2:P:418:ARG:HH21	2:P:441:PHE:HE2	1.65	0.44
2:Q:164:LEU:HD23	2:Q:164:LEU:C	2.38	0.44
2:Q:477:ASN:O	2:Q:480:ILE:CG1	2.63	0.44
2:Q:505:CYS:HB3	2:Q:738:TRP:CD1	2.52	0.44
2:Q:567:ILE:HD13	2:Q:753:LYS:O	2.17	0.44
2:Q:592:ASN:HB3	2:Q:595:THR:HG23	1.99	0.44
2:Q:644:ASN:O	2:Q:648:LYS:HG3	2.17	0.44
2:R:36:SER:O	2:R:40:GLN:OE1	2.36	0.44
2:R:126:THR:HG21	2:R:160:LEU:CD2	2.45	0.44
2:R:379:LEU:HA	2:R:382:VAL:CG1	2.47	0.44
2:R:437:GLU:HB2	2:R:439:HIS:NE2	2.33	0.44
2:R:704:THR:OG1	2:R:705:GLU:N	2.50	0.44
2:R:810:PRO:HA	2:R:816:GLU:OE2	2.18	0.44
2:S:39:ASP:O	2:S:43:GLU:OE1	2.36	0.44
2:S:131:LYS:HG3	2:S:132:MET:SD	2.56	0.44
2:S:173:LYS:CB	2:S:176:TYR:CE1	2.98	0.44
2:S:511:PHE:HB2	2:S:535:TYR:CE2	2.53	0.44
2:S:573:MET:CE	2:S:619:PHE:HB3	2.48	0.44
2:S:658:PRO:HB2	2:S:660:TRP:CH2	2.53	0.44
2:S:810:PRO:HD3	2:S:816:GLU:HB2	1.98	0.44
1:C:745:LEU:HB3	1:C:757:LEU:HD11	2.00	0.44
1:D:84:GLU:OE2	1:L:523:ARG:HD2	2.18	0.44
1:D:214:ILE:HG22	1:D:218:LEU:HD12	1.99	0.44
1:D:352:TYR:CD1	1:D:415:GLU:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:91:ASP:OD1	1:E:93:PRO:HD2	2.18	0.44
1:E:150:GLU:OE2	1:E:151:THR:N	2.50	0.44
1:E:505:HIS:O	1:E:508:SER:HB2	2.18	0.44
1:F:582:ILE:HG13	1:F:583:GLU:N	2.32	0.44
1:G:729:GLY:HA2	1:G:734:ALA:HB2	2.00	0.44
1:H:527:ARG:HD2	1:H:704:GLU:HG3	1.99	0.44
1:I:165:TRP:NE1	1:I:299:GLN:OE1	2.51	0.44
1:I:246:LEU:HD11	1:I:249:GLY:H	1.83	0.44
1:I:300:ASN:O	1:I:304:THR:HG23	2.17	0.44
1:I:303:LEU:O	1:I:307:VAL:HG22	2.17	0.44
1:J:296:LEU:HA	1:J:299:GLN:HG2	2.00	0.44
1:K:259:PRO:HA	2:R:140:TYR:CD1	2.53	0.44
2:M:762:HIS:CA	2:M:918:ASN:HD21	2.29	0.44
2:N:413:VAL:N	2:N:414:PRO:CD	2.81	0.44
2:N:454:VAL:HG23	2:N:463:GLY:HA3	1.99	0.44
2:N:757:TYR:CD2	2:N:931:THR:HG22	2.52	0.44
2:O:123:VAL:HG13	2:P:177:PHE:HE1	1.82	0.44
2:O:303:PRO:HB2	2:O:306:LYS:HG3	2.00	0.44
2:O:529:GLU:O	2:O:532:ILE:HG12	2.18	0.44
2:O:553:ARG:O	2:O:557:VAL:HG23	2.17	0.44
2:O:723:ILE:CD1	2:O:844:LEU:HD21	2.44	0.44
2:P:196:LEU:CB	2:P:240:PHE:HE1	2.30	0.44
2:P:386:PHE:HE2	2:P:387:TYR:CE1	2.35	0.44
2:P:490:CYS:HB3	2:P:729:PRO:CB	2.48	0.44
2:P:519:ALA:HA	2:P:527:LYS:HZ3	1.79	0.44
2:Q:473:GLU:CA	2:Q:476:ARG:HD3	2.32	0.44
2:Q:477:ASN:HA	2:Q:480:ILE:HG12	2.00	0.44
2:R:304:VAL:HA	2:R:307:ARG:HG3	1.98	0.44
2:R:465:TYR:HE1	2:R:735:GLY:C	2.20	0.44
2:R:575:GLN:HG3	2:R:619:PHE:CD2	2.53	0.44
2:S:169:ASP:N	2:S:169:ASP:OD1	2.50	0.44
2:S:182:LYS:HD3	2:S:182:LYS:HA	1.76	0.44
2:S:217:LEU:HD12	2:S:247:VAL:C	2.37	0.44
2:S:384:GLN:O	2:S:388:THR:HG23	2.17	0.44
2:S:575:GLN:O	2:S:922:ILE:HG23	2.17	0.44
1:A:566:GLU:OE1	1:A:688:LEU:HD13	2.17	0.44
1:A:614:ALA:CB	1:A:660:LEU:HD21	2.48	0.44
1:C:177:ARG:O	1:C:180:GLU:HG3	2.18	0.44
1:D:499:VAL:HG23	1:D:531:CYS:SG	2.58	0.44
1:D:581:ALA:O	1:D:585:VAL:HG23	2.17	0.44
1:E:100:THR:O	1:E:104:ARG:CZ	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:519:PHE:HE2	1:E:610:ARG:NE	2.15	0.44
1:E:763:HIS:O	1:E:766:VAL:HG22	2.18	0.44
1:F:537:THR:OG1	1:F:540:ILE:HG12	2.18	0.44
1:G:148:LEU:HB3	1:G:757:LEU:HD23	2.00	0.44
1:G:210:ILE:O	1:G:214:ILE:HG12	2.17	0.44
1:G:592:PHE:HB3	1:G:594:LEU:HG	1.99	0.44
1:H:178:ASP:OD2	1:H:324:THR:OG1	2.16	0.44
1:H:304:THR:O	1:H:305:LEU:C	2.55	0.44
1:H:517:LEU:HD21	1:H:696:MET:HE1	2.00	0.44
1:H:601:THR:OG1	1:H:602:THR:N	2.51	0.44
1:H:722:HIS:ND1	1:H:724:ILE:HG23	2.32	0.44
1:I:14:ARG:NH1	1:I:31:SER:OG	2.44	0.44
1:I:150:GLU:HB3	1:I:353:LEU:HD12	2.00	0.44
1:J:191:LEU:HD21	1:J:305:LEU:HD12	1.99	0.44
1:K:6:LEU:C	1:K:297:LEU:HD13	2.37	0.44
1:K:494:HIS:O	1:K:495:PHE:HD1	2.01	0.44
1:L:2:GLU:OE2	1:L:5:LEU:HB2	2.18	0.44
2:M:110:ILE:HD13	2:M:219:THR:H	1.82	0.44
2:M:604:MET:SD	2:M:914:ILE:HG12	2.58	0.44
2:M:769:SER:HA	2:M:773:LYS:HD3	1.99	0.44
2:M:894:TYR:CE2	2:M:910:PHE:HE2	2.36	0.44
2:N:117:ARG:NH1	2:O:167:LEU:O	2.31	0.44
2:N:173:LYS:HD2	2:N:175:GLU:H	1.82	0.44
2:N:280:SER:O	2:N:283:LEU:HG	2.17	0.44
2:N:319:GLU:HG2	2:N:320:LYS:N	2.33	0.44
2:N:838:THR:HA	2:N:840:PRO:HD3	1.99	0.44
2:O:336:MET:C	2:O:338:ASP:H	2.20	0.44
2:O:356:LEU:HD23	2:O:484:SER:HA	2.00	0.44
2:O:366:MET:O	2:O:370:GLU:HG2	2.17	0.44
2:P:136:LYS:HE2	2:P:211:LEU:HA	1.99	0.44
2:P:502:LEU:HD12	2:P:550:TRP:HZ3	1.83	0.44
2:P:515:VAL:HG12	2:P:515:VAL:O	2.17	0.44
2:P:606:SER:HB3	2:P:650:ILE:HA	2.00	0.44
2:Q:103:ASN:N	2:Q:214:LYS:HE3	2.22	0.44
2:Q:114:LYS:HZ2	2:R:239:LYS:HE2	1.83	0.44
2:Q:201:GLU:OE2	2:Q:243:SER:HB2	2.18	0.44
2:Q:264:LYS:HA	2:Q:267:GLU:OE2	2.18	0.44
2:R:547:ALA:N	2:R:631:ASP:OD1	2.51	0.44
2:R:706:PHE:O	2:R:710:ILE:HG23	2.17	0.44
2:S:135:ASP:HA	2:S:138:LYS:NZ	2.32	0.44
2:S:303:PRO:HB3	2:S:305:GLN:HE22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:344:VAL:HG23	2:S:345:ARG:H	1.82	0.44
2:S:435:ASN:ND2	2:S:441:PHE:HA	2.33	0.44
2:S:728:ARG:H	2:S:794:HIS:HE1	1.63	0.44
2:S:816:GLU:HB3	2:S:820:LYS:HZ3	1.80	0.44
1:A:214:ILE:HD11	1:A:291:LEU:HD22	2.00	0.44
1:B:5:LEU:HD13	1:B:72:ILE:HD11	2.00	0.44
1:B:161:ALA:HB3	1:B:753:PHE:CD1	2.53	0.44
1:B:210:ILE:O	1:B:214:ILE:HG12	2.18	0.44
1:B:288:LEU:O	1:B:291:LEU:HB2	2.18	0.44
1:C:511:ARG:HG3	1:C:512:SER:N	2.33	0.44
1:D:288:LEU:HD23	1:D:291:LEU:HD12	2.00	0.44
1:D:527:ARG:HG2	1:D:795:PHE:CZ	2.53	0.44
1:E:463:ILE:O	1:E:464:ARG:NH2	2.50	0.44
1:E:785:GLU:OE1	1:E:785:GLU:HA	2.18	0.44
1:G:214:ILE:HD12	1:G:291:LEU:HB3	1.98	0.44
1:G:551:MET:SD	1:G:552:THR:O	2.76	0.44
1:I:468:ALA:HB3	1:I:497:TYR:CD2	2.52	0.44
1:J:353:LEU:O	1:J:796:HIS:NE2	2.49	0.44
1:K:10:VAL:HG12	1:K:14:ARG:HD2	2.00	0.44
1:K:499:VAL:HG12	1:K:500:GLY:N	2.32	0.44
1:K:554:GLU:OE2	1:K:669:ARG:HG2	2.18	0.44
1:L:214:ILE:O	1:L:218:LEU:HD13	2.18	0.44
1:L:529:GLY:O	1:L:704:GLU:N	2.51	0.44
2:M:121:ILE:HD11	2:M:232:ASP:HB3	1.99	0.44
2:M:198:GLU:C	2:M:201:GLU:HG3	2.38	0.44
2:M:223:ILE:HD12	2:M:227:PHE:C	2.37	0.44
2:M:547:ALA:HB3	2:M:631:ASP:CG	2.37	0.44
2:M:861:ILE:CD1	2:M:895:LEU:HB3	2.48	0.44
2:N:261:ILE:HD11	2:N:294:GLU:CG	2.47	0.44
2:N:285:GLU:OE1	2:N:286:ARG:NH1	2.51	0.44
2:N:314:LEU:HD22	2:N:373:LYS:HG3	2.00	0.44
2:N:446:LEU:HD11	2:N:486:VAL:CG1	2.38	0.44
2:N:651:ALA:HA	2:O:806:LEU:HD11	2.00	0.44
2:N:704:THR:CG2	2:N:705:GLU:H	2.19	0.44
2:O:87:ASN:HB3	2:O:91:LYS:HZ1	1.80	0.44
2:O:297:TYR:HA	2:O:300:LYS:HZ3	1.79	0.44
2:O:489:ASN:HB2	2:O:500:MET:HE3	1.98	0.44
2:O:575:GLN:HA	2:O:619:PHE:HB3	1.93	0.44
2:O:757:TYR:HE2	2:O:767:SER:O	2.01	0.44
2:O:771:ALA:HB1	2:O:917:LEU:HD11	1.99	0.44
2:P:36:SER:HA	2:P:39:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:266:TYR:HE1	2:P:290:VAL:HG21	1.83	0.44
2:P:378:LEU:C	2:P:378:LEU:HD23	2.38	0.44
2:P:445:SER:O	2:P:448:LYS:HG2	2.18	0.44
2:P:629:ILE:HA	2:P:632:ILE:CG1	2.45	0.44
2:P:723:ILE:CD1	2:P:836:LYS:HE3	2.48	0.44
2:Q:465:TYR:HB3	2:Q:467:ARG:HD3	1.95	0.44
2:Q:466:LEU:O	2:Q:479:SER:HB2	2.18	0.44
2:Q:599:LEU:HB3	2:Q:912:ASN:OD1	2.18	0.44
2:Q:910:PHE:HB3	2:Q:913:THR:HG21	1.99	0.44
2:R:314:LEU:HD23	2:R:314:LEU:C	2.38	0.44
2:R:413:VAL:N	2:R:414:PRO:CD	2.81	0.44
2:R:525:ARG:N	2:R:525:ARG:HD3	2.33	0.44
2:R:787:LEU:HD11	2:R:824:ILE:CD1	2.46	0.44
2:S:332:THR:HG22	2:S:333:GLU:OE1	2.17	0.44
2:S:494:LEU:HD13	2:S:720:VAL:HG11	2.00	0.44
2:S:515:VAL:HG21	2:S:535:TYR:HE1	1.81	0.44
2:S:529:GLU:CA	2:S:532:ILE:HG12	2.44	0.44
2:S:539:MET:HG3	2:S:541:VAL:N	2.33	0.44
2:S:787:LEU:HD21	2:S:824:ILE:HD12	2.00	0.44
1:A:190:GLN:O	1:A:194:GLN:HG2	2.18	0.44
1:A:468:ALA:HB3	1:A:497:TYR:CD2	2.53	0.44
1:B:230:TRP:HA	1:B:247:HIS:ND1	2.33	0.44
1:B:360:LYS:O	1:B:445:GLN:HG2	2.17	0.44
1:B:724:ILE:HG23	1:B:725:PHE:N	2.33	0.44
1:C:171:HIS:HD2	1:C:174:ALA:HB3	1.83	0.44
1:D:162:GLU:OE1	1:D:162:GLU:N	2.45	0.44
1:E:148:LEU:HD23	1:E:787:ASN:OD1	2.17	0.44
1:E:535:GLY:HA2	1:E:727:TRP:HZ2	1.82	0.44
1:F:360:LYS:N	1:F:366:MET:HE3	2.33	0.44
1:F:758:LYS:CD	1:F:762:TYR:HE2	2.31	0.44
1:G:545:LEU:HD12	1:G:545:LEU:N	2.32	0.44
1:H:44:LEU:HD21	1:I:546:PRO:HD3	2.00	0.44
1:I:605:GLN:O	1:I:608:GLU:HG3	2.18	0.44
1:I:741:MET:CB	1:I:743:ILE:HD11	2.48	0.44
1:J:14:ARG:HE	1:J:28:ARG:NH2	2.16	0.44
1:J:44:LEU:HD11	1:J:48:VAL:CG1	2.47	0.44
1:J:393:LYS:O	1:J:395:LEU:HD12	2.17	0.44
1:J:526:ASP:HB2	1:J:701:ILE:HD12	1.98	0.44
1:K:22:GLU:OE1	1:K:22:GLU:N	2.49	0.44
1:K:73:LEU:HD22	1:K:110:ILE:HD13	2.00	0.44
1:L:619:LEU:HD22	1:L:660:LEU:HD21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:269:TYR:OH	2:M:290:VAL:HG23	2.18	0.44
2:M:843:PHE:O	2:M:846:ILE:HG12	2.17	0.44
2:N:40:GLN:HA	2:N:43:GLU:HG2	2.00	0.44
2:N:265:GLN:HE22	2:N:294:GLU:N	2.14	0.44
2:N:436:TYR:OH	2:O:255:ARG:N	2.46	0.44
2:N:632:ILE:HG13	2:N:632:ILE:O	2.17	0.44
2:N:658:PRO:HB2	2:N:660:TRP:CE3	2.53	0.44
2:N:708:ASP:O	2:N:712:LYS:HG2	2.18	0.44
2:O:293:LEU:C	2:O:296:GLN:HG3	2.38	0.44
2:O:330:VAL:HG22	2:O:343:ASP:O	2.18	0.44
2:O:569:VAL:HG13	2:O:774:ILE:HG21	2.00	0.44
2:O:598:GLY:O	2:O:706:PHE:HE1	2.00	0.44
2:O:758:ARG:HG2	2:O:927:TYR:C	2.38	0.44
2:O:858:ILE:HG12	2:O:895:LEU:CD2	2.48	0.44
2:P:118:HIS:O	2:Q:172:TYR:CD1	2.71	0.44
2:P:149:GLN:OE1	2:P:149:GLN:N	2.33	0.44
2:P:178:SER:O	2:P:181:LEU:HB2	2.16	0.44
2:P:198:GLU:HA	2:P:201:GLU:HG2	1.99	0.44
2:P:215:ALA:HB1	2:P:245:LYS:O	2.17	0.44
2:P:279:GLU:OE1	2:P:279:GLU:N	2.49	0.44
2:P:443:MET:HE3	2:P:496:LYS:HE3	2.00	0.44
2:P:762:HIS:H	2:P:918:ASN:HD21	1.66	0.44
2:P:803:GLY:O	2:P:807:ARG:NH2	2.50	0.44
2:Q:281:VAL:HG13	2:Q:282:ARG:N	2.32	0.44
2:Q:314:LEU:HB2	2:Q:372:LEU:HG	1.99	0.44
2:Q:379:LEU:HA	2:Q:382:VAL:CG1	2.46	0.44
2:Q:460:PHE:HB3	2:Q:512:ASN:CG	2.38	0.44
2:Q:486:VAL:HG23	2:Q:487:SER:N	2.33	0.44
2:Q:571:LEU:HG	2:Q:746:ASN:ND2	2.32	0.44
2:Q:723:ILE:HB	2:Q:844:LEU:HD11	1.99	0.44
2:Q:752:HIS:CE1	2:Q:812:THR:HA	2.53	0.44
2:Q:843:PHE:O	2:Q:846:ILE:CG1	2.65	0.44
2:Q:856:PHE:HE2	2:Q:878:ILE:HD11	1.80	0.44
2:R:159:GLN:HA	2:R:162:ARG:CD	2.48	0.44
2:R:390:LYS:O	2:R:394:THR:HG23	2.18	0.44
2:R:418:ARG:HG3	2:R:419:ASN:N	2.33	0.44
2:R:569:VAL:HG22	2:R:574:VAL:HG13	2.00	0.44
2:S:571:LEU:HD13	2:S:746:ASN:HA	1.98	0.44
2:S:858:ILE:HG22	2:S:918:ASN:CB	2.48	0.44
1:A:392:GLU:OE1	1:A:392:GLU:N	2.45	0.44
1:C:74:ARG:O	1:C:78:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:GLY:HA2	1:C:290:ARG:CD	2.47	0.44
1:C:295:TYR:CE2	1:C:299:GLN:NE2	2.86	0.44
1:C:429:ASN:OD1	1:C:430:GLY:N	2.51	0.44
1:C:508:SER:HA	1:C:511:ARG:HG2	2.00	0.44
1:C:556:ARG:HD2	1:C:587:LEU:HD22	2.00	0.44
1:D:719:VAL:O	1:D:722:HIS:HB2	2.18	0.44
1:E:84:GLU:OE1	1:E:85:LYS:HG2	2.18	0.44
1:G:155:LEU:HD11	1:G:748:ASP:C	2.39	0.44
1:I:538:PRO:HG2	1:I:682:ASP:OD1	2.18	0.44
1:J:496:THR:HG23	1:J:704:GLU:OE2	2.18	0.44
1:J:552:THR:HG22	1:J:672:TYR:CE1	2.53	0.44
1:J:778:ASP:OD1	1:J:781:ARG:NH2	2.46	0.44
1:K:55:TYR:O	1:K:58:GLN:HB3	2.17	0.44
1:K:723:HIS:HD2	1:K:727:TRP:CH2	2.36	0.44
2:M:389:LYS:CB	2:M:416:LEU:HD11	2.48	0.44
2:M:894:TYR:CD2	2:M:910:PHE:HE2	2.36	0.44
2:N:103:ASN:H	2:N:214:LYS:HZ3	1.64	0.44
2:N:200:PHE:HA	2:N:203:LEU:HD12	2.00	0.44
2:N:376:VAL:HG23	2:N:377:ARG:N	2.33	0.44
2:N:584:MET:HE3	2:N:921:THR:HG21	2.00	0.44
2:N:779:VAL:HG13	2:N:851:LEU:CD2	2.42	0.44
2:N:784:HIS:HA	2:N:817:PHE:HE1	1.77	0.44
2:N:802:ILE:HA	2:N:824:ILE:HG12	2.00	0.44
2:O:200:PHE:HE2	2:O:246:LEU:CD2	2.29	0.44
2:O:229:ALA:O	2:O:232:ASP:N	2.51	0.44
2:O:567:ILE:HD13	2:O:753:LYS:O	2.18	0.44
2:O:593:ILE:CD1	2:O:605:ALA:HB2	2.47	0.44
2:O:611:VAL:CG1	2:O:613:SER:H	2.31	0.44
2:O:772:ALA:CA	2:O:917:LEU:HG	2.47	0.44
2:P:418:ARG:NH1	2:P:419:ASN:OD1	2.51	0.44
2:P:502:LEU:CB	2:P:550:TRP:HZ3	2.31	0.44
2:P:575:GLN:HB2	2:P:619:PHE:CE2	2.53	0.44
2:Q:69:ARG:HG2	2:Q:300:LYS:HZ2	1.81	0.44
2:Q:305:GLN:HG2	2:Q:306:LYS:HG3	2.00	0.44
2:Q:376:VAL:O	2:Q:380:MET:HE3	2.18	0.44
2:Q:549:HIS:HD2	2:Q:552:ASN:ND2	2.15	0.44
2:R:128:ARG:HA	2:S:192:GLY:HA3	2.00	0.44
2:R:194:GLN:HA	2:R:194:GLN:NE2	2.33	0.44
2:R:329:LYS:NZ	2:R:343:ASP:OD1	2.41	0.44
2:R:467:ARG:CG	2:R:469:GLN:HB2	2.47	0.44
2:R:606:SER:CA	2:R:650:ILE:HA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:234:LEU:HB3	2:S:238:ARG:CZ	2.48	0.44
2:S:429:ILE:O	2:S:432:ALA:HB3	2.18	0.44
2:S:463:GLY:O	2:S:466:LEU:HD23	2.18	0.44
1:A:586:ARG:N	1:A:586:ARG:HD2	2.33	0.43
1:B:650:LYS:CD	1:B:654:LYS:NZ	2.81	0.43
1:C:5:LEU:HD22	1:C:72:ILE:HD11	2.00	0.43
1:C:150:GLU:HB3	1:C:353:LEU:HD12	2.00	0.43
1:C:166:LEU:HA	1:C:169:LEU:HD12	2.00	0.43
1:C:278:GLU:O	1:C:281:ARG:HG2	2.18	0.43
1:C:641:ARG:NH1	1:C:642:GLU:CD	2.70	0.43
1:C:661:THR:O	1:C:666:ARG:NH2	2.51	0.43
1:D:346:VAL:HG13	1:D:347:TYR:CD1	2.53	0.43
1:D:524:ASN:OD1	1:D:525:GLY:N	2.51	0.43
1:D:540:ILE:HD12	1:D:543:ARG:NH2	2.33	0.43
1:D:591:VAL:HG23	1:D:592:PHE:N	2.33	0.43
1:E:774:LEU:HD23	1:E:778:ASP:CG	2.38	0.43
1:F:51:SER:O	1:F:55:TYR:HD2	2.01	0.43
1:G:469:ALA:O	1:G:470:ALA:CB	2.66	0.43
1:G:723:HIS:CD2	1:G:727:TRP:CH2	3.06	0.43
1:I:387:MET:CG	1:I:388:GLU:H	2.31	0.43
1:I:494:HIS:CD2	1:I:795:PHE:CD1	3.05	0.43
1:I:538:PRO:O	1:I:542:LYS:NZ	2.46	0.43
1:J:176:LEU:O	1:J:179:PHE:N	2.51	0.43
1:J:511:ARG:HA	1:J:562:PHE:CE2	2.53	0.43
1:J:582:ILE:O	1:J:586:ARG:NH1	2.51	0.43
1:K:25:LEU:HD23	1:K:28:ARG:NH1	2.33	0.43
1:K:494:HIS:O	1:K:495:PHE:CD1	2.71	0.43
1:L:219:CYS:HA	1:L:272:TRP:NE1	2.30	0.43
1:L:617:GLU:OE1	1:L:644:VAL:HG21	2.18	0.43
1:L:690:GLN:NE2	1:L:738:ASP:HA	2.33	0.43
2:M:198:GLU:HA	2:M:201:GLU:HG2	2.00	0.43
2:M:452:THR:HG22	2:M:456:GLN:HE22	1.83	0.43
2:M:513:GLN:HB3	2:M:514:PHE:CD2	2.53	0.43
2:N:215:ALA:HB1	2:N:245:LYS:O	2.17	0.43
2:N:374:GLN:N	2:N:374:GLN:OE1	2.51	0.43
2:N:538:TYR:HH	2:N:553:ARG:NH1	2.16	0.43
2:N:551:ALA:CB	2:N:624:ASN:HA	2.47	0.43
2:N:589:LYS:H	2:N:920:SER:HA	1.82	0.43
2:N:713:VAL:HA	2:N:849:PRO:HG3	1.98	0.43
2:N:808:LEU:HD22	2:N:816:GLU:CG	2.43	0.43
2:O:636:ARG:HG2	2:O:637:CYS:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:748:VAL:HG13	2:O:811:VAL:HG22	2.00	0.43
2:P:137:LEU:HD23	2:P:138:LYS:HE2	1.99	0.43
2:P:377:ARG:HG3	2:P:380:MET:HE3	2.00	0.43
2:P:437:GLU:HB3	2:P:440:ARG:HG3	2.00	0.43
2:P:533:SER:O	2:P:536:VAL:HG12	2.17	0.43
2:P:628:ALA:CB	2:P:649:VAL:HG21	2.47	0.43
2:P:733:LEU:O	2:P:737:VAL:HG13	2.17	0.43
2:Q:102:VAL:HA	2:Q:214:LYS:NZ	2.33	0.43
2:Q:426:LEU:O	2:Q:429:ILE:HG22	2.17	0.43
2:Q:776:ARG:HH12	2:Q:861:ILE:HA	1.82	0.43
2:Q:823:ILE:HG22	2:Q:827:LYS:HE3	2.00	0.43
2:R:71:VAL:HG13	2:R:248:VAL:CB	2.47	0.43
2:R:114:LYS:HZ3	2:S:238:ARG:HB3	1.80	0.43
2:R:573:MET:CB	2:R:621:SER:CB	2.93	0.43
2:R:573:MET:CB	2:R:621:SER:HA	2.47	0.43
2:R:632:ILE:CD1	2:R:645:ALA:HB3	2.48	0.43
2:R:728:ARG:NH1	2:R:796:VAL:HG12	2.32	0.43
2:S:336:MET:O	2:S:338:ASP:N	2.45	0.43
1:A:696:MET:O	1:A:699:ARG:N	2.52	0.43
1:B:202:ARG:NH1	1:B:206:ASP:OD2	2.51	0.43
1:C:227:LEU:HD13	1:C:231:ILE:HD11	2.00	0.43
1:D:471:ASN:OD1	1:D:502:ASP:OD2	2.36	0.43
1:E:650:LYS:HB2	1:G:595:GLU:OE2	2.18	0.43
1:E:651:ARG:HB3	1:E:652:PRO:HD3	1.99	0.43
1:F:55:TYR:CE2	1:G:550:SER:HB2	2.52	0.43
1:F:466:VAL:HG13	1:F:492:ILE:HG21	1.99	0.43
1:F:481:CYS:SG	1:F:520:LEU:HD23	2.59	0.43
1:G:408:GLU:N	1:G:408:GLU:OE1	2.52	0.43
1:H:187:GLU:O	1:H:191:LEU:HG	2.19	0.43
1:I:554:GLU:OE1	1:I:669:ARG:HD3	2.17	0.43
1:I:707:PRO:HG2	1:I:760:GLU:HG2	2.00	0.43
1:J:494:HIS:O	1:J:495:PHE:HD1	2.01	0.43
1:K:95:PHE:O	1:K:99:GLN:CD	2.56	0.43
1:K:205:LYS:HE2	1:K:205:LYS:CA	2.44	0.43
1:K:351:ARG:CZ	1:K:411:GLY:HA2	2.49	0.43
1:L:15:LEU:HD23	1:L:293:TRP:CD1	2.53	0.43
1:L:347:TYR:CZ	1:L:412:LYS:HE2	2.53	0.43
2:M:107:LEU:HG	2:M:132:MET:SD	2.58	0.43
2:M:268:ASN:HB3	2:S:227:PHE:CE1	2.52	0.43
2:M:359:ARG:NH2	2:M:792:LEU:O	2.48	0.43
2:M:728:ARG:NE	2:M:728:ARG:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:814:VAL:HG22	2:M:817:PHE:HB3	2.00	0.43
2:N:223:ILE:HD12	2:N:227:PHE:CA	2.47	0.43
2:N:279:GLU:H	2:N:282:ARG:NH2	2.15	0.43
2:N:370:GLU:OE1	2:N:373:LYS:HD3	2.18	0.43
2:N:787:LEU:O	2:N:839:HIS:HE1	2.01	0.43
2:O:83:THR:C	2:O:86:ILE:HG12	2.38	0.43
2:O:415:ASN:HA	2:O:418:ARG:HD2	1.93	0.43
2:O:790:GLU:OE2	2:O:839:HIS:ND1	2.25	0.43
2:O:855:ILE:HD13	2:O:878:ILE:CD1	2.48	0.43
2:O:875:ASN:HB2	2:O:892:TRP:CH2	2.53	0.43
2:P:112:PRO:O	2:P:115:LEU:HG	2.19	0.43
2:P:180:ALA:HA	2:P:194:GLN:HE22	1.81	0.43
2:P:412:SER:O	2:P:415:ASN:OD1	2.36	0.43
2:P:727:ILE:CD1	2:P:729:PRO:HG3	2.48	0.43
2:P:838:THR:HG23	2:P:839:HIS:ND1	2.33	0.43
2:Q:110:ILE:HG13	2:Q:128:ARG:HH22	1.82	0.43
2:Q:173:LYS:NZ	2:Q:175:GLU:HB2	2.30	0.43
2:Q:223:ILE:HD12	2:Q:227:PHE:C	2.38	0.43
2:Q:261:ILE:CA	2:Q:264:LYS:HG2	2.44	0.43
2:Q:286:ARG:HA	2:Q:286:ARG:CZ	2.48	0.43
2:Q:303:PRO:HB2	2:Q:305:GLN:HE22	1.82	0.43
2:Q:605:ALA:CB	2:Q:650:ILE:HG23	2.47	0.43
2:R:108:PRO:O	2:R:128:ARG:NH1	2.51	0.43
2:R:210:ILE:HG13	2:R:211:LEU:HD23	2.00	0.43
2:R:632:ILE:O	2:R:632:ILE:HG13	2.18	0.43
2:R:716:TRP:CE2	2:R:720:VAL:HG11	2.53	0.43
2:R:783:LEU:O	2:R:842:PHE:HE1	2.01	0.43
2:R:825:GLY:CA	2:R:835:TRP:HZ2	2.32	0.43
2:S:73:PHE:O	2:S:308:ILE:HD12	2.18	0.43
2:S:91:LYS:O	2:S:94:ASN:N	2.51	0.43
2:S:540:SER:CB	2:S:543:ARG:HG3	2.47	0.43
2:S:647:ASN:HB2	2:S:648:LYS:HZ3	1.83	0.43
1:A:401:LEU:HD23	1:A:458:ARG:CB	2.49	0.43
1:A:402:ASP:HA	1:A:405:GLU:OE1	2.16	0.43
1:A:761:PHE:CD1	1:A:783:VAL:HG11	2.52	0.43
1:B:14:ARG:NE	1:B:28:ARG:HG3	2.34	0.43
1:B:148:LEU:N	1:B:349:GLN:O	2.40	0.43
1:B:246:LEU:HD11	1:B:249:GLY:H	1.83	0.43
1:B:591:VAL:HG13	1:B:592:PHE:N	2.34	0.43
1:C:36:ALA:O	1:C:39:GLU:N	2.52	0.43
1:C:356:ARG:HB3	1:C:421:HIS:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:LEU:O	1:C:407:VAL:HG12	2.18	0.43
1:C:638:GLU:O	1:C:640:ALA:N	2.51	0.43
1:E:44:LEU:HD21	1:E:49:ALA:CB	2.34	0.43
1:E:216:GLU:OE1	1:E:258:TRP:NE1	2.49	0.43
1:E:374:LEU:HB3	1:E:400:VAL:HG11	1.99	0.43
1:E:601:THR:O	1:E:604:ASP:N	2.50	0.43
1:F:3:ARG:NH1	1:F:4:PHE:CE1	2.86	0.43
1:F:148:LEU:HB2	1:F:757:LEU:HD23	1.99	0.43
1:F:664:ASN:O	1:F:668:GLN:HG2	2.18	0.43
1:G:464:ARG:NH2	1:G:491:GLY:O	2.51	0.43
1:H:564:TRP:CE2	1:H:600:ILE:HD12	2.53	0.43
1:I:296:LEU:O	1:I:299:GLN:HB2	2.17	0.43
1:I:743:ILE:C	1:I:786:VAL:HG13	2.38	0.43
1:I:743:ILE:O	1:I:786:VAL:HG13	2.19	0.43
1:J:112:ALA:CB	1:J:273:LEU:HD11	2.48	0.43
1:J:633:TRP:HB3	1:J:637:TYR:CZ	2.54	0.43
1:K:116:VAL:HG12	1:K:117:PHE:CD2	2.53	0.43
1:K:326:LEU:O	1:K:329:GLU:HG2	2.18	0.43
1:K:377:TYR:OH	1:K:415:GLU:HA	2.19	0.43
1:K:464:ARG:HG2	1:K:795:PHE:O	2.18	0.43
1:K:464:ARG:HG3	1:K:795:PHE:HB3	1.99	0.43
1:L:4:PHE:CE1	1:L:37:GLN:HA	2.53	0.43
1:L:146:GLU:HB3	1:L:351:ARG:HH22	1.83	0.43
1:L:177:ARG:O	1:L:180:GLU:HG3	2.19	0.43
1:L:178:ASP:OD2	1:L:324:THR:HB	2.18	0.43
2:M:279:GLU:O	2:M:283:LEU:HD23	2.17	0.43
2:M:771:ALA:HB2	2:M:922:ILE:CD1	2.44	0.43
2:N:103:ASN:O	2:N:214:LYS:HB2	2.18	0.43
2:N:133:VAL:HG12	2:N:137:LEU:CD1	2.48	0.43
2:N:230:GLY:O	2:N:234:LEU:HD13	2.18	0.43
2:N:235:GLU:HG3	2:N:239:LYS:HZ1	1.83	0.43
2:N:293:LEU:O	2:N:297:TYR:HB2	2.17	0.43
2:N:543:ARG:CD	2:O:469:GLN:OE1	2.66	0.43
2:N:593:ILE:C	2:N:601:LYS:HZ2	2.22	0.43
2:N:639:ARG:O	2:N:642:ILE:HB	2.18	0.43
2:N:647:ASN:O	2:N:651:ALA:N	2.46	0.43
2:N:747:ASN:CG	2:N:811:VAL:HG21	2.39	0.43
2:N:833:LYS:CE	2:N:838:THR:N	2.81	0.43
2:N:852:HIS:CA	2:N:855:ILE:HG13	2.48	0.43
2:N:885:LYS:NZ	2:N:888:SER:HA	2.32	0.43
2:O:83:THR:O	2:O:87:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:379:LEU:HA	2:O:382:VAL:HG12	2.00	0.43
2:P:310:LEU:O	2:P:310:LEU:CD2	2.63	0.43
2:P:333:GLU:OE1	2:P:336:MET:CE	2.65	0.43
2:P:502:LEU:CD1	2:P:550:TRP:HZ3	2.31	0.43
2:P:548:SER:HB2	2:P:631:ASP:OD2	2.19	0.43
2:P:608:LEU:HD23	2:P:620:CYS:HB2	2.00	0.43
2:P:856:PHE:O	2:P:913:THR:HG23	2.18	0.43
2:Q:37:LEU:CD1	2:Q:311:LYS:N	2.80	0.43
2:Q:577:ASN:HD22	2:Q:921:THR:HG22	1.83	0.43
2:R:263:GLY:O	2:R:267:GLU:HG2	2.18	0.43
2:R:279:GLU:C	2:R:283:LEU:HD23	2.39	0.43
2:R:421:LEU:HD23	2:R:481:TYR:HA	2.00	0.43
2:R:422:TYR:HB2	2:R:481:TYR:OH	2.18	0.43
2:R:486:VAL:HG23	2:R:487:SER:N	2.33	0.43
2:R:498:LEU:HB3	2:R:630:ALA:HB2	2.00	0.43
2:R:603:ALA:CB	2:R:850:ILE:HG23	2.48	0.43
2:R:787:LEU:HD21	2:R:824:ILE:HD12	2.00	0.43
2:S:121:ILE:HA	2:S:124:THR:OG1	2.19	0.43
2:S:128:ARG:HB3	2:S:131:LYS:HZ3	1.83	0.43
2:S:576:LEU:HA	2:S:922:ILE:HA	1.99	0.43
2:S:727:ILE:CG1	2:S:841:LEU:HD11	2.47	0.43
2:S:823:ILE:HA	2:S:826:GLU:CG	2.48	0.43
1:A:51:SER:O	1:A:55:TYR:HD2	2.01	0.43
1:A:114:HIS:O	1:A:118:ASN:OD1	2.35	0.43
1:A:400:VAL:O	1:A:404:LEU:HG	2.19	0.43
1:A:609:MET:HB3	1:A:612:LEU:HD12	2.00	0.43
1:B:190:GLN:O	1:B:194:GLN:HG2	2.18	0.43
1:B:572:GLU:HG2	1:B:573:LEU:HG	1.99	0.43
1:C:74:ARG:NH1	1:C:117:PHE:HB2	2.33	0.43
1:C:182:GLY:O	1:C:185:SER:HB3	2.18	0.43
1:C:553:LYS:HB3	1:C:587:LEU:HD11	2.00	0.43
1:D:486:VAL:HG11	1:D:633:TRP:CD1	2.54	0.43
1:E:105:VAL:HG12	1:E:106:SER:N	2.34	0.43
1:E:158:SER:HB2	1:E:337:ARG:HE	1.83	0.43
1:E:327:ARG:HA	1:E:327:ARG:NE	2.33	0.43
1:E:563:ILE:HG23	1:E:567:LEU:HD12	1.99	0.43
1:E:728:MET:HB3	1:E:782:LYS:HD3	2.00	0.43
1:F:672:TYR:HB2	1:G:58:GLN:OE1	2.18	0.43
1:G:227:LEU:O	1:G:227:LEU:CD1	2.60	0.43
1:G:443:LYS:HG3	1:G:633:TRP:CZ2	2.54	0.43
1:G:510:ILE:CD1	1:G:534:ILE:HD13	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:763:HIS:O	1:G:767:VAL:HG23	2.18	0.43
1:H:20:LEU:O	1:H:20:LEU:HD23	2.18	0.43
1:H:55:TYR:O	1:H:58:GLN:HB3	2.18	0.43
1:H:199:LEU:HD12	1:H:207:ARG:NH2	2.33	0.43
1:I:565:ARG:HA	1:I:568:ARG:NH2	2.33	0.43
1:I:567:LEU:HD21	1:I:688:LEU:CD2	2.48	0.43
1:I:575:ARG:HG3	1:I:576:TYR:N	2.34	0.43
1:I:633:TRP:HA	1:I:636:GLU:OE2	2.19	0.43
1:J:60:ILE:HD11	1:J:66:LYS:C	2.39	0.43
1:J:92:LEU:N	1:J:93:PRO:HD2	2.34	0.43
1:J:148:LEU:HD23	1:J:757:LEU:HG	2.00	0.43
1:J:587:LEU:HA	1:J:590:LYS:HE2	1.99	0.43
1:K:76:ILE:HB	1:K:110:ILE:HD12	2.00	0.43
1:K:352:TYR:CE2	1:K:791:ARG:NH1	2.87	0.43
1:K:558:LEU:HD11	1:K:607:PHE:CD1	2.53	0.43
1:L:103:SER:HA	1:L:752:ILE:HA	2.00	0.43
1:L:134:PRO:HD2	1:L:762:TYR:CG	2.54	0.43
1:L:534:ILE:CG2	1:L:693:MET:SD	3.06	0.43
2:M:86:ILE:CG1	2:M:251:THR:HG21	2.49	0.43
2:M:103:ASN:HB3	2:M:214:LYS:CD	2.47	0.43
2:M:231:TRP:CZ3	2:M:261:ILE:CA	3.01	0.43
2:M:443:MET:CE	2:M:500:MET:HE3	2.48	0.43
2:M:718:LYS:HD2	2:M:718:LYS:C	2.39	0.43
2:N:386:PHE:CE1	2:N:417:LEU:HB2	2.53	0.43
2:N:418:ARG:HG3	2:N:485:GLN:CG	2.45	0.43
2:N:604:MET:CE	2:N:914:ILE:HG12	2.49	0.43
2:O:111:ASP:CB	2:O:114:LYS:HB2	2.47	0.43
2:O:151:GLU:O	2:O:154:GLN:HG3	2.19	0.43
2:O:173:LYS:HD3	2:O:175:GLU:CB	2.33	0.43
2:O:271:LYS:O	2:O:275:GLU:OE1	2.36	0.43
2:O:466:LEU:O	2:O:479:SER:HB2	2.18	0.43
2:O:612:ALA:HA	2:O:616:LEU:HD22	1.98	0.43
2:O:613:SER:O	2:O:614:ASN:HB2	2.18	0.43
2:P:296:GLN:O	2:P:300:LYS:HG3	2.18	0.43
2:P:313:MET:C	2:P:316:LEU:HG	2.39	0.43
2:P:515:VAL:HG11	2:P:535:TYR:HD1	1.82	0.43
2:P:560:ASN:ND2	2:P:661:SER:HB3	2.33	0.43
2:P:828:LEU:HD21	2:P:838:THR:HG23	2.01	0.43
2:Q:423:GLY:HA3	2:R:307:ARG:HH12	1.83	0.43
2:Q:436:TYR:HB3	2:R:255:ARG:NH2	2.33	0.43
2:Q:544:ILE:HD11	2:Q:550:TRP:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:575:GLN:CG	2:Q:923:VAL:HG11	2.49	0.43
2:Q:599:LEU:O	2:Q:599:LEU:HG	2.17	0.43
2:Q:629:ILE:HD11	2:Q:850:ILE:HB	1.99	0.43
2:R:41:LEU:HD23	2:R:45:ILE:CD1	2.47	0.43
2:R:178:SER:CA	2:R:181:LEU:HD12	2.27	0.43
2:R:210:ILE:HG13	2:R:211:LEU:N	2.33	0.43
2:R:350:ASP:O	2:R:354:GLU:OE1	2.37	0.43
2:R:376:VAL:HA	2:R:379:LEU:HG	2.00	0.43
2:R:448:LYS:CB	2:R:542:GLY:HA3	2.41	0.43
2:R:559:ALA:O	2:R:562:PRO:HD2	2.18	0.43
2:R:815:ASP:HA	2:R:818:GLU:CG	2.49	0.43
2:S:285:GLU:HG2	2:S:286:ARG:N	2.33	0.43
2:S:390:LYS:CG	2:S:416:LEU:HD23	2.43	0.43
2:S:529:GLU:O	2:S:532:ILE:HG12	2.19	0.43
2:S:593:ILE:HG13	2:S:601:LYS:NZ	2.32	0.43
2:S:638:GLU:HG3	2:S:640:SER:N	2.34	0.43
2:S:794:HIS:CE1	2:S:796:VAL:HG13	2.53	0.43
1:A:97:GLU:O	1:A:100:THR:OG1	2.23	0.43
1:A:465:GLY:HA2	1:A:494:HIS:O	2.18	0.43
1:B:505:HIS:CD2	1:B:507:ILE:H	2.37	0.43
1:C:97:GLU:O	1:C:101:LEU:HD13	2.18	0.43
1:C:606:VAL:O	1:C:609:MET:HB2	2.18	0.43
1:C:788:GLU:OE1	1:C:791:ARG:NH1	2.51	0.43
1:D:16:SER:O	1:D:238:GLN:NE2	2.49	0.43
1:D:506:LEU:O	1:D:510:ILE:HG12	2.19	0.43
1:E:8:SER:HB3	1:E:11:LEU:HB3	2.00	0.43
1:E:200:THR:HB	1:E:202:ARG:NH1	2.34	0.43
1:E:286:GLU:C	1:E:290:ARG:HE	2.22	0.43
1:E:506:LEU:O	1:E:510:ILE:HG13	2.19	0.43
1:E:592:PHE:CD1	1:E:655:LEU:HD12	2.54	0.43
1:F:3:ARG:HE	1:F:104:ARG:HG3	1.84	0.43
1:F:165:TRP:CZ3	1:F:169:LEU:HD11	2.53	0.43
1:F:511:ARG:CZ	1:F:558:LEU:HB3	2.49	0.43
1:F:612:LEU:HD12	1:F:613:LEU:O	2.18	0.43
1:F:758:LYS:HD3	1:F:762:TYR:HE2	1.83	0.43
1:G:165:TRP:HD1	1:G:302:TYR:CD2	2.36	0.43
1:G:564:TRP:CZ3	1:G:600:ILE:CG2	3.00	0.43
1:I:69:PRO:HD2	1:I:289:GLU:OE2	2.18	0.43
1:I:510:ILE:HG23	1:I:692:VAL:HG21	1.99	0.43
1:J:394:PRO:HA	1:J:399:GLN:OE1	2.19	0.43
1:J:509:GLY:O	1:J:512:SER:OG	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:215:ARG:HE	1:K:269:GLU:CD	2.22	0.43
1:K:723:HIS:HD2	1:K:727:TRP:CZ3	2.36	0.43
1:L:15:LEU:HD12	1:L:15:LEU:HA	1.93	0.43
1:L:63:ARG:HD3	1:L:65:MET:CE	2.49	0.43
1:L:81:ILE:HG22	1:L:114:HIS:CE1	2.53	0.43
1:L:591:VAL:HG13	1:L:668:GLN:HG3	2.00	0.43
1:L:657:LYS:NZ	1:L:661:THR:HG21	2.33	0.43
2:M:41:LEU:O	2:M:44:SER:OG	2.30	0.43
2:M:89:VAL:O	2:M:93:LEU:HD23	2.18	0.43
2:M:168:THR:O	2:S:117:ARG:NH2	2.52	0.43
2:M:180:ALA:HA	2:M:194:GLN:HG3	1.94	0.43
2:M:235:GLU:CA	2:M:238:ARG:CZ	2.96	0.43
2:M:238:ARG:CG	2:M:239:LYS:HD3	2.40	0.43
2:M:476:ARG:CZ	2:S:440:ARG:HH22	2.31	0.43
2:M:628:ALA:CB	2:M:649:VAL:CG2	2.96	0.43
2:M:727:ILE:HG23	2:M:841:LEU:HD11	1.99	0.43
2:N:45:ILE:HG13	2:N:72:PHE:CZ	2.54	0.43
2:N:365:ASP:O	2:N:368:VAL:HG22	2.19	0.43
2:N:511:PHE:HA	2:N:515:VAL:HB	2.00	0.43
2:N:533:SER:HA	2:N:536:VAL:HG22	2.01	0.43
2:N:706:PHE:O	2:N:710:ILE:HG12	2.18	0.43
2:N:737:VAL:HG23	2:N:738:TRP:N	2.33	0.43
2:N:784:HIS:CD2	2:N:817:PHE:HD1	2.37	0.43
2:N:816:GLU:O	2:N:819:LYS:HG3	2.19	0.43
2:O:35:LYS:HG3	2:O:36:SER:H	1.84	0.43
2:O:263:GLY:O	2:O:267:GLU:OE1	2.37	0.43
2:O:355:GLY:HA2	2:O:413:VAL:HG12	1.99	0.43
2:O:551:ALA:HA	2:O:623:PHE:HE2	1.78	0.43
2:P:304:VAL:HA	2:P:307:ARG:HG3	2.00	0.43
2:P:418:ARG:HB2	2:P:485:GLN:OE1	2.18	0.43
2:P:651:ALA:CA	2:Q:806:LEU:HD13	2.48	0.43
2:P:728:ARG:HH21	2:P:796:VAL:HA	1.82	0.43
2:P:877:LEU:O	2:P:881:ILE:HG13	2.19	0.43
2:P:878:ILE:O	2:P:882:VAL:HG23	2.19	0.43
2:Q:87:ASN:O	2:Q:91:LYS:HD3	2.19	0.43
2:Q:111:ASP:OD2	2:Q:114:LYS:HB2	2.19	0.43
2:Q:117:ARG:HG2	2:Q:118:HIS:H	1.83	0.43
2:Q:155:ASN:O	2:Q:159:GLN:HG3	2.18	0.43
2:Q:313:MET:SD	2:Q:313:MET:N	2.92	0.43
2:Q:446:LEU:HG	2:Q:450:ILE:CD1	2.49	0.43
2:Q:495:SER:CB	2:Q:634:ALA:CB	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:776:ARG:CZ	2:Q:861:ILE:HG12	2.48	0.43
2:R:129:LEU:HA	2:R:132:MET:SD	2.58	0.43
2:R:208:CYS:HB2	2:R:245:LYS:CE	2.48	0.43
2:R:218:ILE:CG1	2:R:248:VAL:HA	2.48	0.43
2:R:281:VAL:O	2:R:284:ALA:HB3	2.18	0.43
2:R:426:LEU:O	2:R:429:ILE:CG2	2.66	0.43
2:R:444:ASP:HB2	2:R:542:GLY:O	2.18	0.43
2:R:501:LEU:HD12	2:R:734:ILE:CG2	2.47	0.43
2:R:621:SER:OG	2:R:624:ASN:CB	2.66	0.43
2:S:76:GLY:HA3	2:S:82:LYS:CG	2.49	0.43
2:S:639:ARG:HA	2:S:714:GLU:OE1	2.18	0.43
2:S:716:TRP:CE3	2:S:849:PRO:HD2	2.53	0.43
2:S:721:ASN:HA	2:S:724:GLU:OE2	2.19	0.43
1:B:95:PHE:CE1	1:B:134:PRO:HD3	2.54	0.43
1:C:95:PHE:CZ	1:C:99:GLN:NE2	2.87	0.43
1:C:133:TYR:HB3	1:C:762:TYR:HE2	1.83	0.43
1:C:387:MET:SD	1:C:388:GLU:O	2.77	0.43
1:D:136:HIS:O	1:D:140:GLU:HG3	2.18	0.43
1:D:368:LYS:NZ	1:D:372:SER:OG	2.49	0.43
1:E:165:TRP:CE2	1:E:169:LEU:HD11	2.53	0.43
1:E:552:THR:OG1	1:E:555:THR:OG1	1.93	0.43
1:G:575:ARG:NH2	1:G:576:TYR:CE1	2.87	0.43
1:H:209:GLN:OE1	1:H:240:LEU:O	2.37	0.43
1:H:447:ALA:HA	1:H:450:MET:HE2	2.01	0.43
1:H:784:ALA:O	1:H:785:GLU:C	2.55	0.43
1:I:145:ARG:HB2	1:I:146:GLU:OE1	2.19	0.43
1:I:216:GLU:HB3	1:I:254:PHE:O	2.18	0.43
1:I:651:ARG:N	1:I:652:PRO:CD	2.81	0.43
1:J:29:VAL:O	1:J:33:VAL:HG23	2.18	0.43
1:J:558:LEU:O	1:J:561:VAL:HG22	2.19	0.43
1:L:602:THR:O	1:L:606:VAL:HG23	2.17	0.43
1:L:665:VAL:O	1:L:668:GLN:HG2	2.19	0.43
2:M:219:THR:HG22	2:M:249:VAL:CG1	2.49	0.43
2:M:613:SER:O	2:M:614:ASN:HB2	2.19	0.43
2:N:457:ASP:OD1	2:N:470:SER:HB3	2.18	0.43
2:N:744:ASN:O	2:N:748:VAL:HG13	2.19	0.43
2:N:784:HIS:HD2	2:N:817:PHE:HD1	1.66	0.43
2:O:85:PHE:HA	2:O:88:SER:OG	2.18	0.43
2:O:293:LEU:CA	2:O:296:GLN:HE21	2.31	0.43
2:O:293:LEU:C	2:O:296:GLN:HE21	2.21	0.43
2:O:317:VAL:HG22	2:O:318:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:515:VAL:HG12	2:O:515:VAL:O	2.19	0.43
2:O:548:SER:N	2:O:631:ASP:OD2	2.51	0.43
2:O:570:PHE:N	2:O:570:PHE:CD1	2.87	0.43
2:O:611:VAL:O	2:O:616:LEU:HA	2.19	0.43
2:P:113:THR:HG23	2:P:223:ILE:HA	2.01	0.43
2:P:262:ARG:HD2	2:P:294:GLU:CG	2.47	0.43
2:P:319:GLU:OE1	2:P:323:ALA:CB	2.67	0.43
2:P:422:TYR:O	2:P:426:LEU:CB	2.64	0.43
2:P:586:GLU:OE2	2:P:759:ASN:HB3	2.18	0.43
2:P:639:ARG:HA	2:P:642:ILE:HB	2.01	0.43
2:P:737:VAL:HA	2:P:789:GLU:OE1	2.18	0.43
2:P:740:ARG:NE	2:P:809:ASN:OD1	2.41	0.43
2:P:757:TYR:CD2	2:P:931:THR:HA	2.53	0.43
2:P:802:ILE:HG12	2:P:807:ARG:NE	2.23	0.43
2:Q:85:PHE:CZ	2:Q:308:ILE:HD13	2.54	0.43
2:Q:720:VAL:HG22	2:Q:844:LEU:HD22	1.99	0.43
2:Q:807:ARG:NE	2:Q:807:ARG:HA	2.34	0.43
2:R:85:PHE:O	2:R:88:SER:OG	2.31	0.43
2:R:238:ARG:HG3	2:R:239:LYS:N	2.33	0.43
2:R:389:LYS:HE2	2:R:389:LYS:CA	2.48	0.43
2:R:428:ASN:ND2	2:R:477:ASN:HB2	2.33	0.43
2:R:549:HIS:O	2:R:552:ASN:OD1	2.36	0.43
2:R:575:GLN:HG2	2:R:923:VAL:HG11	2.00	0.43
2:R:733:LEU:HD11	2:R:789:GLU:O	2.19	0.43
2:R:794:HIS:NE2	2:R:796:VAL:HG13	2.33	0.43
2:S:156:HIS:CE1	2:S:206:ARG:HG3	2.54	0.43
2:S:158:ALA:HA	2:S:161:GLN:HG2	1.99	0.43
2:S:281:VAL:HG13	2:S:282:ARG:N	2.34	0.43
2:S:506:GLY:O	2:S:510:ILE:HG23	2.18	0.43
2:S:807:ARG:HA	2:S:807:ARG:NE	2.33	0.43
2:S:817:PHE:O	2:S:821:ILE:HG13	2.19	0.43
2:S:893:ASP:OD1	2:S:894:TYR:N	2.52	0.43
1:A:151:THR:OG1	1:A:745:LEU:O	2.32	0.43
1:A:292:LEU:HD23	1:A:296:LEU:HD11	2.00	0.43
1:A:304:THR:OG1	1:A:305:LEU:N	2.52	0.43
1:B:214:ILE:HG21	1:B:295:TYR:HB2	2.00	0.43
1:B:480:PHE:HB3	1:B:484:PHE:CE2	2.54	0.43
1:C:45:PRO:HB2	1:C:47:HIS:CE1	2.54	0.43
1:C:55:TYR:CE2	1:D:674:GLU:HG2	2.54	0.43
1:C:71:ALA:O	1:C:74:ARG:HB2	2.19	0.43
1:C:446:ALA:O	1:C:450:MET:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:501:GLU:OE2	1:C:501:GLU:N	2.49	0.43
1:C:568:ARG:HH21	1:C:577:ALA:HB1	1.84	0.43
1:C:689:GLN:O	1:C:693:MET:HG3	2.19	0.43
1:D:260:ILE:HD12	1:D:268:SER:HA	2.01	0.43
1:D:420:PRO:O	1:D:467:ASP:OD1	2.37	0.43
1:E:92:LEU:N	1:E:93:PRO:HD2	2.34	0.43
1:F:272:TRP:CZ3	1:F:273:LEU:HD21	2.53	0.43
1:F:671:GLU:OE1	1:F:672:TYR:N	2.51	0.43
1:G:151:THR:OG1	1:G:745:LEU:O	2.34	0.43
1:H:199:LEU:O	1:H:200:THR:O	2.37	0.43
1:H:401:LEU:HD13	1:H:458:ARG:HB2	2.01	0.43
1:I:187:GLU:O	1:I:191:LEU:HD13	2.18	0.43
1:I:221:VAL:HG21	1:I:288:LEU:CD2	2.48	0.43
1:I:668:GLN:HA	1:I:671:GLU:OE1	2.18	0.43
1:I:689:GLN:O	1:I:693:MET:SD	2.77	0.43
1:J:347:TYR:CD2	1:J:412:LYS:HA	2.53	0.43
1:J:506:LEU:HD23	1:J:685:VAL:HG11	2.01	0.43
1:J:527:ARG:NH2	1:J:704:GLU:HG3	2.34	0.43
1:K:19:SER:OG	1:K:20:LEU:N	2.51	0.43
1:K:389:TRP:O	1:K:391:HIS:N	2.51	0.43
1:L:30:GLU:OE1	1:L:53:TRP:CE2	2.72	0.43
1:L:725:PHE:CD1	1:L:728:MET:HE3	2.53	0.43
2:M:356:LEU:CD1	2:M:358:LEU:HD12	2.49	0.43
2:M:658:PRO:HB2	2:M:660:TRP:CZ3	2.53	0.43
2:N:202:GLU:O	2:N:206:ARG:HG2	2.19	0.43
2:N:287:GLY:HA2	2:N:290:VAL:HG12	2.00	0.43
2:N:412:SER:O	2:N:415:ASN:OD1	2.37	0.43
2:N:536:VAL:HA	2:N:541:VAL:HG12	2.01	0.43
2:N:713:VAL:O	2:N:717:LEU:CD1	2.67	0.43
2:N:721:ASN:HA	2:N:724:GLU:HG2	2.00	0.43
2:O:41:LEU:CD1	2:O:308:ILE:HG12	2.35	0.43
2:O:87:ASN:O	2:O:90:VAL:HB	2.18	0.43
2:O:111:ASP:OD1	2:O:113:THR:OG1	2.31	0.43
2:O:183:LEU:HD23	2:O:183:LEU:N	2.34	0.43
2:O:286:ARG:HA	2:O:286:ARG:NE	2.34	0.43
2:O:639:ARG:HD3	2:O:639:ARG:C	2.39	0.43
2:O:642:ILE:HD11	2:O:714:GLU:HG2	2.00	0.43
2:O:658:PRO:HB2	2:O:660:TRP:CZ3	2.54	0.43
2:O:773:LYS:O	2:O:777:PHE:HD2	2.00	0.43
2:P:105:LYS:NZ	2:P:211:LEU:HB3	2.33	0.43
2:P:265:GLN:OE1	2:P:294:GLU:OE2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:423:GLY:CA	2:P:426:LEU:HB2	2.48	0.43
2:P:462:THR:O	2:P:467:ARG:NH1	2.52	0.43
2:P:549:HIS:CD2	2:P:553:ARG:CZ	3.01	0.43
2:P:629:ILE:CA	2:P:632:ILE:HG12	2.48	0.43
2:P:706:PHE:O	2:P:710:ILE:HG23	2.19	0.43
2:P:727:ILE:HG12	2:P:729:PRO:CD	2.48	0.43
2:P:737:VAL:HG23	2:P:738:TRP:N	2.33	0.43
2:Q:70:ASN:HD21	2:Q:247:VAL:CG2	2.32	0.43
2:Q:133:VAL:O	2:Q:137:LEU:HG	2.18	0.43
2:Q:355:GLY:CA	2:Q:413:VAL:HG12	2.49	0.43
2:Q:610:THR:O	2:Q:654:THR:HG23	2.19	0.43
2:Q:773:LYS:HD2	2:Q:860:GLY:CA	2.27	0.43
2:Q:808:LEU:HB3	2:Q:816:GLU:HG2	1.99	0.43
2:R:113:THR:HG21	2:R:225:THR:OG1	2.18	0.43
2:R:305:GLN:NE2	2:R:306:LYS:HZ2	2.17	0.43
2:R:329:LYS:HZ3	2:R:343:ASP:CG	2.18	0.43
2:R:453:TYR:OH	2:R:479:SER:HB3	2.18	0.43
2:R:771:ALA:HB3	2:R:917:LEU:CD1	2.49	0.43
2:S:72:PHE:CD2	2:S:306:LYS:HB3	2.53	0.43
2:S:197:SER:HA	2:S:240:PHE:CD1	2.54	0.43
2:S:215:ALA:C	2:S:216:ILE:HD12	2.39	0.43
2:S:380:MET:CA	2:S:383:LEU:HG	2.46	0.43
2:S:421:LEU:HB2	2:S:481:TYR:HD1	1.84	0.43
2:S:422:TYR:CD1	2:S:426:LEU:HD13	2.53	0.43
2:S:454:VAL:HG22	2:S:454:VAL:O	2.19	0.43
2:S:584:MET:CE	2:S:589:LYS:HD3	2.48	0.43
2:S:593:ILE:C	2:S:601:LYS:HZ2	2.22	0.43
2:S:635:CYS:O	2:S:636:ARG:HB3	2.18	0.43
2:S:638:GLU:HG3	2:S:640:SER:H	1.83	0.43
2:S:729:PRO:HA	2:S:733:LEU:CD2	2.49	0.43
2:S:764:ARG:HE	2:S:765:MET:CE	2.32	0.43
1:A:92:LEU:HD21	1:A:135:TYR:O	2.18	0.43
1:C:547:LEU:HD12	1:C:548:SER:OG	2.19	0.43
1:C:612:LEU:HD13	1:C:639:ARG:NH1	2.33	0.43
1:D:784:ALA:C	1:D:788:GLU:OE1	2.57	0.43
1:E:143:ILE:HD12	1:E:147:CYS:HA	2.01	0.43
1:F:36:ALA:HA	1:F:39:GLU:OE1	2.19	0.43
1:F:691:ALA:HB1	1:F:695:LYS:NZ	2.34	0.43
1:F:717:ARG:HA	1:F:717:ARG:NE	2.34	0.43
1:G:758:LYS:HG2	1:G:762:TYR:HE2	1.84	0.43
1:H:794:ARG:HH22	1:H:798:VAL:HG22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:98:TRP:C	1:J:98:TRP:CD1	2.90	0.43
1:K:67:LEU:O	1:K:293:TRP:HZ2	2.01	0.43
1:L:192:CYS:SG	1:L:199:LEU:HD23	2.59	0.43
1:L:592:PHE:HB3	1:L:594:LEU:HG	2.00	0.43
2:M:191:ILE:HG13	2:S:108:PRO:CB	2.43	0.43
2:M:366:MET:CE	2:M:467:ARG:HE	2.32	0.43
2:M:628:ALA:O	2:M:632:ILE:HG22	2.19	0.43
2:M:716:TRP:NE1	2:M:847:SER:HB2	2.30	0.43
2:M:836:LYS:HG2	2:M:843:PHE:CD2	2.54	0.43
2:M:897:LYS:O	2:M:897:LYS:HD2	2.18	0.43
2:N:107:LEU:HD12	2:N:107:LEU:C	2.39	0.43
2:N:136:LYS:HD3	2:N:211:LEU:HA	1.96	0.43
2:N:247:VAL:HG12	2:N:248:VAL:N	2.33	0.43
2:N:286:ARG:HH21	2:N:289:MET:HG3	1.83	0.43
2:N:366:MET:SD	2:N:367:TYR:CD1	3.11	0.43
2:N:425:MET:HE1	2:N:474:ALA:O	2.18	0.43
2:N:425:MET:CE	2:N:474:ALA:O	2.67	0.43
2:N:431:ARG:NH1	2:O:291:GLU:OE2	2.52	0.43
2:N:573:MET:HE2	2:N:620:CYS:H	1.84	0.43
2:N:759:ASN:ND2	2:N:931:THR:OG1	2.27	0.43
2:N:828:LEU:HD21	2:N:833:LYS:NZ	2.33	0.43
2:O:111:ASP:OD2	2:O:114:LYS:HG2	2.18	0.43
2:O:810:PRO:HG2	2:O:817:PHE:HB2	2.01	0.43
2:O:855:ILE:HG21	2:O:886:LEU:HD21	2.01	0.43
2:P:37:LEU:C	2:P:37:LEU:HD23	2.38	0.43
2:P:109:THR:C	2:P:128:ARG:HH12	2.22	0.43
2:P:371:LEU:HA	2:P:374:GLN:OE1	2.19	0.43
2:P:394:THR:O	2:P:395:SER:HB2	2.18	0.43
2:P:639:ARG:HD3	2:P:710:ILE:HD12	2.01	0.43
2:P:862:ASN:HB3	2:P:867:ALA:HB1	1.99	0.43
2:P:871:GLU:O	2:P:875:ASN:ND2	2.52	0.43
2:Q:719:ASN:O	2:Q:722:GLU:HG3	2.18	0.43
2:R:103:ASN:O	2:R:214:LYS:N	2.42	0.43
2:R:113:THR:HG22	2:R:226:GLN:HB3	2.01	0.43
2:R:290:VAL:HG13	2:R:291:GLU:N	2.33	0.43
2:R:529:GLU:CA	2:R:532:ILE:HG12	2.46	0.43
2:R:790:GLU:OE2	2:R:841:LEU:HB2	2.19	0.43
2:R:851:LEU:O	2:R:855:ILE:HG13	2.18	0.43
2:S:158:ALA:C	2:S:161:GLN:HG3	2.39	0.43
2:S:164:LEU:HA	2:S:196:LEU:HD11	2.01	0.43
2:S:173:LYS:NZ	2:S:174:PRO:HG2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:348:ILE:HG13	2:S:349:GLY:N	2.34	0.43
2:S:444:ASP:OD1	2:S:444:ASP:N	2.48	0.43
2:S:502:LEU:HD21	2:S:626:ILE:CG2	2.49	0.43
2:S:578:ARG:HH21	2:S:590:LYS:CD	2.28	0.43
2:S:734:ILE:C	2:S:737:VAL:HG22	2.39	0.43
2:S:741:PHE:CZ	2:S:745:LEU:HD21	2.53	0.43
2:S:780:LEU:HD13	2:S:814:VAL:HG12	2.00	0.43
1:A:58:GLN:O	1:A:62:GLN:HG2	2.17	0.43
1:A:535:GLY:HA2	1:A:727:TRP:NE1	2.34	0.43
1:B:47:HIS:NE2	1:E:503:PHE:O	2.52	0.43
1:B:71:ALA:O	1:B:75:LEU:HD13	2.18	0.43
1:B:469:ALA:O	1:B:470:ALA:CB	2.67	0.43
1:B:481:CYS:SG	1:B:519:PHE:HB3	2.59	0.43
1:B:567:LEU:HD22	1:B:573:LEU:CD1	2.49	0.43
1:B:740:PRO:O	1:B:741:MET:HE2	2.19	0.43
1:C:663:ASP:OD1	1:C:663:ASP:C	2.57	0.43
1:D:565:ARG:HA	1:D:568:ARG:NE	2.34	0.43
1:E:725:PHE:CD1	1:E:728:MET:HE3	2.54	0.43
1:F:218:LEU:CB	1:F:272:TRP:HZ2	2.30	0.43
1:F:307:VAL:HG11	1:F:753:PHE:CE1	2.54	0.43
1:F:761:PHE:HD2	1:F:762:TYR:CE1	2.37	0.43
1:G:150:GLU:HB3	1:G:353:LEU:HD12	2.01	0.43
1:G:556:ARG:NH1	1:G:583:GLU:OE2	2.52	0.43
1:H:563:ILE:CG2	1:H:567:LEU:HD12	2.49	0.43
1:I:90:ILE:HD11	1:I:132:LEU:HB3	2.00	0.43
1:I:256:THR:HG23	1:I:258:TRP:HE1	1.84	0.43
1:I:547:LEU:O	1:I:677:LEU:N	2.37	0.43
1:I:649:MET:SD	1:I:653:LEU:CD1	3.06	0.43
1:I:735:ILE:N	1:I:738:ASP:OD2	2.38	0.43
1:K:31:SER:O	1:K:35:LEU:HD13	2.18	0.43
1:K:71:ALA:O	1:K:75:LEU:CD1	2.67	0.43
1:K:103:SER:HA	1:K:752:ILE:HA	2.01	0.43
1:K:155:LEU:HD11	1:K:748:ASP:C	2.39	0.43
1:K:289:GLU:O	1:K:293:TRP:CD1	2.72	0.43
1:L:2:GLU:OE2	1:L:72:ILE:CG2	2.67	0.43
1:L:441:ASP:OD2	1:L:445:GLN:NE2	2.52	0.43
1:L:564:TRP:CE2	1:L:600:ILE:HD12	2.54	0.43
2:M:283:LEU:HD13	2:M:286:ARG:HH21	1.83	0.43
2:M:313:MET:HG3	2:M:376:VAL:HG22	2.01	0.43
2:M:599:LEU:CD1	2:M:850:ILE:HD13	2.41	0.43
2:M:727:ILE:HD13	2:M:841:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:166:LEU:H	2:N:166:LEU:CD1	2.31	0.43
2:N:261:ILE:CG2	2:N:297:TYR:HE2	2.31	0.43
2:N:282:ARG:HD3	2:N:282:ARG:N	2.31	0.43
2:N:580:SER:O	2:N:581:ARG:HD2	2.18	0.43
2:N:656:ILE:HD11	2:O:461:ASN:OD1	2.18	0.43
2:N:840:PRO:O	2:N:844:LEU:HG	2.19	0.43
2:O:272:THR:HA	2:O:275:GLU:OE1	2.18	0.43
2:O:467:ARG:O	2:O:469:GLN:N	2.51	0.43
2:O:774:ILE:HD12	2:O:774:ILE:H	1.83	0.43
2:Q:110:ILE:HB	2:Q:220:PHE:HD1	1.79	0.43
2:Q:161:GLN:CG	2:R:177:PHE:CD2	3.01	0.43
2:Q:509:SER:HB3	2:Q:742:TYR:CD1	2.54	0.43
2:Q:592:ASN:HB3	2:Q:595:THR:CG2	2.48	0.43
2:Q:657:VAL:HG11	2:Q:661:SER:HB3	2.01	0.43
2:Q:759:ASN:OD1	2:Q:931:THR:N	2.46	0.43
2:Q:879:ASP:HA	2:Q:884:ASP:O	2.18	0.43
2:R:120:PRO:O	2:R:124:THR:HG23	2.18	0.43
2:R:195:ASP:OD1	2:R:197:SER:OG	2.37	0.43
2:R:243:SER:HB3	2:R:246:LEU:HD21	1.99	0.43
2:R:466:LEU:C	2:R:479:SER:HB2	2.39	0.43
2:S:178:SER:HA	2:S:181:LEU:HB2	2.00	0.43
2:S:494:LEU:CD2	2:S:498:LEU:HD11	2.49	0.43
2:S:539:MET:HB3	2:S:539:MET:HE2	1.87	0.43
2:S:632:ILE:O	2:S:632:ILE:HG13	2.19	0.43
1:B:218:LEU:CB	1:B:272:TRP:HZ2	2.32	0.43
1:B:341:ALA:O	1:B:349:GLN:HG2	2.19	0.43
1:B:563:ILE:HG23	1:B:567:LEU:HD12	2.00	0.43
1:C:422:PHE:HB2	1:C:468:ALA:HA	2.01	0.43
1:C:523:ARG:HD2	1:E:84:GLU:CG	2.48	0.43
1:C:662:SER:O	1:C:666:ARG:NE	2.50	0.43
1:D:92:LEU:HD23	1:D:134:PRO:HB2	2.01	0.43
1:D:371:PHE:HB2	1:D:397:ILE:HD11	2.00	0.43
1:E:222:ALA:HB2	1:E:276:LEU:CD2	2.49	0.43
1:F:136:HIS:CE1	1:F:138:THR:HG1	2.35	0.43
1:G:34:PHE:O	1:G:37:GLN:HG3	2.19	0.43
1:G:288:LEU:HD13	1:G:291:LEU:HD12	2.00	0.43
1:G:392:GLU:OE1	1:G:392:GLU:N	2.46	0.43
1:H:153:GLN:O	1:H:153:GLN:HG3	2.18	0.43
1:H:178:ASP:OD2	1:H:324:THR:N	2.48	0.43
1:H:220:ARG:NH2	1:H:254:PHE:O	2.51	0.43
1:I:271:CYS:O	1:I:274:THR:OG1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:718:ASN:ND2	1:I:720:SER:OG	2.52	0.43
1:J:108:LEU:HB2	1:J:109:PRO:HD3	2.01	0.43
1:J:130:TRP:CE2	1:J:340:HIS:CE1	3.07	0.43
1:K:90:ILE:HB	1:K:132:LEU:HG	2.01	0.43
1:K:162:GLU:OE2	1:K:754:ALA:HB2	2.19	0.43
1:K:220:ARG:O	1:K:225:VAL:HG22	2.18	0.43
1:K:304:THR:O	1:K:308:GLN:OE1	2.37	0.43
1:K:423:ILE:HG23	1:K:470:ALA:HB2	2.00	0.43
1:K:722:HIS:O	1:K:725:PHE:HD2	2.01	0.43
1:L:140:GLU:O	1:L:143:ILE:HG22	2.19	0.43
1:L:176:LEU:HD21	1:L:205:LYS:HA	2.01	0.43
1:L:671:GLU:OE2	1:L:671:GLU:HA	2.19	0.43
2:M:267:GLU:OE2	2:N:270:SER:HB2	2.19	0.43
2:M:271:LYS:HE3	2:M:272:THR:CG2	2.47	0.43
2:M:553:ARG:NH1	2:M:553:ARG:HG2	2.32	0.43
2:M:573:MET:HE3	2:M:623:PHE:CD2	2.54	0.43
2:M:799:ARG:HD2	2:M:800:GLU:C	2.40	0.43
2:N:105:LYS:HZ2	2:N:213:CYS:HB3	1.80	0.43
2:N:152:GLN:O	2:N:155:ASN:HB2	2.19	0.43
2:N:459:ASP:OD1	2:N:461:ASN:N	2.45	0.43
2:N:748:VAL:HA	2:N:811:VAL:HG13	2.00	0.43
2:O:636:ARG:HG2	2:O:637:CYS:N	2.33	0.43
2:O:658:PRO:HB2	2:O:660:TRP:CE3	2.54	0.43
2:O:856:PHE:HB2	2:O:887:LEU:CD1	2.39	0.43
2:O:914:ILE:HG21	2:O:917:LEU:CB	2.45	0.43
2:P:177:PHE:CD2	2:P:181:LEU:HD11	2.54	0.43
2:P:365:ASP:O	2:P:368:VAL:HG22	2.18	0.43
2:P:434:LEU:HD13	2:P:449:ASP:OD1	2.18	0.43
2:P:574:VAL:CG1	2:P:922:ILE:HG12	2.49	0.43
2:Q:472:SER:OG	2:Q:475:LEU:CG	2.66	0.43
2:Q:498:LEU:CD1	2:Q:630:ALA:HA	2.47	0.43
2:Q:540:SER:C	2:Q:543:ARG:HG2	2.39	0.43
2:Q:638:GLU:HG3	2:Q:641:ALA:H	1.83	0.43
2:R:258:SER:HA	2:R:294:GLU:OE2	2.19	0.43
2:R:562:PRO:O	2:R:566:LYS:NZ	2.30	0.43
2:R:712:LYS:NZ	2:R:849:PRO:HB3	2.34	0.43
2:R:764:ARG:NH2	2:R:897:LYS:O	2.51	0.43
2:S:133:VAL:HG11	2:S:153:TRP:CD2	2.53	0.43
2:S:610:THR:HA	2:S:618:ASP:HA	2.01	0.43
2:S:828:LEU:HD21	2:S:838:THR:CG2	2.49	0.43
1:C:662:SER:C	1:C:666:ARG:HE	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:564:TRP:CE2	1:D:600:ILE:HD12	2.54	0.42
1:D:602:THR:O	1:D:606:VAL:HG23	2.19	0.42
1:D:654:LYS:HG3	1:D:655:LEU:N	2.34	0.42
1:D:725:PHE:CE1	1:D:768:LEU:HD21	2.54	0.42
1:E:265:SER:O	1:E:268:SER:HB3	2.19	0.42
1:F:70:VAL:HG13	1:F:71:ALA:N	2.34	0.42
1:F:401:LEU:CD1	1:F:456:GLU:HG2	2.49	0.42
1:F:440:LYS:HD2	1:F:443:LYS:HE3	2.01	0.42
1:F:534:ILE:O	1:F:534:ILE:HG22	2.19	0.42
1:G:468:ALA:HB3	1:G:497:TYR:CD2	2.54	0.42
1:H:196:ASP:HB3	1:H:199:LEU:HD13	2.01	0.42
1:H:199:LEU:HD12	1:H:207:ARG:CZ	2.49	0.42
1:H:514:ASP:OD2	1:H:562:PHE:CZ	2.72	0.42
1:I:101:LEU:HG	1:I:105:VAL:CG1	2.49	0.42
1:I:116:VAL:HG12	1:I:281:ARG:NH1	2.34	0.42
1:I:142:TYR:OH	1:I:788:GLU:OE1	2.36	0.42
1:I:464:ARG:HA	1:I:464:ARG:NE	2.34	0.42
1:K:468:ALA:HB1	1:K:480:PHE:CE2	2.54	0.42
1:L:402:ASP:OD1	1:L:458:ARG:NH1	2.39	0.42
1:L:517:LEU:HD11	1:L:696:MET:HE2	2.00	0.42
2:M:71:VAL:HG22	2:M:248:VAL:HB	2.00	0.42
2:M:297:TYR:HB3	2:M:300:LYS:HE3	2.01	0.42
2:M:719:ASN:OD1	2:M:723:ILE:HD11	2.18	0.42
2:M:748:VAL:CA	2:M:811:VAL:HG13	2.47	0.42
2:N:295:GLN:O	2:N:299:LEU:HG	2.19	0.42
2:N:311:LYS:HD2	2:N:315:GLN:CD	2.39	0.42
2:N:313:MET:O	2:N:317:VAL:HG22	2.19	0.42
2:N:362:SER:O	2:N:365:ASP:HB2	2.19	0.42
2:N:435:ASN:HD22	2:N:445:SER:HB2	1.84	0.42
2:N:757:TYR:H	2:N:760:ALA:HB2	1.84	0.42
2:O:83:THR:HA	2:O:86:ILE:CG1	2.45	0.42
2:O:838:THR:HA	2:O:840:PRO:HD3	2.00	0.42
2:P:352:VAL:HG21	2:P:368:VAL:CG1	2.49	0.42
2:P:458:ARG:HA	2:P:458:ARG:HE	1.84	0.42
2:P:751:GLN:HB3	2:P:755:ARG:HH12	1.84	0.42
2:Q:73:PHE:HA	2:Q:250:ALA:O	2.19	0.42
2:Q:151:GLU:HB2	2:Q:154:GLN:HE21	1.84	0.42
2:Q:162:ARG:O	2:Q:165:HIS:CE1	2.72	0.42
2:Q:178:SER:O	2:Q:182:LYS:HG2	2.20	0.42
2:Q:394:THR:O	2:Q:395:SER:CB	2.67	0.42
2:Q:468:PRO:HB3	2:Q:476:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:550:TRP:HA	2:Q:553:ARG:HH12	1.83	0.42
2:Q:758:ARG:HG2	2:Q:927:TYR:C	2.39	0.42
2:Q:815:ASP:O	2:Q:819:LYS:HG2	2.18	0.42
2:R:83:THR:HG23	2:R:84:THR:N	2.34	0.42
2:R:177:PHE:O	2:R:181:LEU:HG	2.19	0.42
2:R:230:GLY:O	2:R:234:LEU:HD13	2.19	0.42
2:R:639:ARG:NH1	2:R:714:GLU:HB3	2.34	0.42
2:R:710:ILE:HG13	2:R:711:THR:N	2.34	0.42
2:R:737:VAL:HG22	2:R:789:GLU:CB	2.48	0.42
2:S:335:SER:O	2:S:336:MET:C	2.57	0.42
2:S:454:VAL:HA	2:S:457:ASP:CG	2.39	0.42
2:S:810:PRO:CG	2:S:817:PHE:H	2.31	0.42
1:B:153:GLN:O	1:B:153:GLN:HG3	2.19	0.42
1:B:199:LEU:O	1:B:200:THR:O	2.36	0.42
1:D:416:LEU:HD21	1:D:418:LEU:HD21	2.00	0.42
1:D:564:TRP:CZ2	1:D:568:ARG:HD3	2.54	0.42
1:E:406:LEU:HD12	1:E:406:LEU:N	2.35	0.42
1:H:203:ILE:HG22	1:H:207:ARG:CZ	2.49	0.42
1:I:414:VAL:HG22	1:I:415:GLU:N	2.34	0.42
1:J:564:TRP:CZ2	1:J:600:ILE:HD12	2.54	0.42
1:K:21:ASP:OD2	1:K:235:GLN:NE2	2.52	0.42
1:K:351:ARG:O	1:K:415:GLU:OE1	2.36	0.42
1:K:643:LEU:HD12	1:K:643:LEU:N	2.34	0.42
2:M:451:PHE:CD2	2:M:541:VAL:HG11	2.53	0.42
2:M:466:LEU:HD12	2:M:479:SER:O	2.19	0.42
2:M:469:GLN:NE2	2:S:543:ARG:HB2	2.34	0.42
2:M:571:LEU:HD23	2:M:745:LEU:HB2	2.01	0.42
2:M:609:SER:HB2	2:M:619:PHE:CE2	2.54	0.42
2:N:349:GLY:HA2	2:N:368:VAL:HG11	2.00	0.42
2:N:362:SER:HA	2:N:365:ASP:HB2	1.99	0.42
2:N:366:MET:HE1	2:N:469:GLN:HE21	1.82	0.42
2:N:443:MET:CE	2:N:500:MET:SD	3.07	0.42
2:N:498:LEU:HA	2:N:501:LEU:HD12	2.00	0.42
2:N:530:GLN:HG3	2:N:534:GLU:OE2	2.18	0.42
2:N:538:TYR:CE1	2:N:658:PRO:HA	2.54	0.42
2:N:646:PHE:HA	2:N:649:VAL:HG22	2.01	0.42
2:O:114:LYS:HZ2	2:P:239:LYS:HA	1.84	0.42
2:O:136:LYS:CG	2:O:211:LEU:HD11	2.47	0.42
2:O:231:TRP:O	2:O:235:GLU:HG2	2.18	0.42
2:O:265:GLN:HE22	2:O:294:GLU:CA	2.32	0.42
2:O:376:VAL:HA	2:O:379:LEU:CD2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:511:PHE:HD1	2:O:535:TYR:CD1	2.36	0.42
2:O:603:ALA:HA	2:O:850:ILE:HG23	2.00	0.42
2:P:465:TYR:OH	2:P:736:LYS:HD3	2.19	0.42
2:P:783:LEU:HD22	2:P:842:PHE:CD1	2.54	0.42
2:Q:110:ILE:HD13	2:Q:220:PHE:CE1	2.54	0.42
2:Q:177:PHE:CZ	2:Q:181:LEU:HD11	2.54	0.42
2:Q:218:ILE:HD12	2:Q:218:ILE:N	2.34	0.42
2:Q:227:PHE:CE1	2:R:268:ASN:CB	3.02	0.42
2:Q:429:ILE:HG23	2:Q:430:TYR:N	2.34	0.42
2:Q:436:TYR:CD2	2:R:255:ARG:HD2	2.54	0.42
2:Q:643:THR:HG23	2:Q:710:ILE:HD11	2.01	0.42
2:Q:787:LEU:HD11	2:Q:824:ILE:CD1	2.40	0.42
2:R:131:LYS:CG	2:S:192:GLY:HA2	2.48	0.42
2:R:228:ASP:OD2	2:S:268:ASN:HA	2.19	0.42
2:R:231:TRP:CZ3	2:R:264:LYS:HB2	2.55	0.42
2:R:426:LEU:CD1	2:R:427:SER:N	2.79	0.42
2:R:573:MET:HB3	2:R:621:SER:HB2	2.01	0.42
2:R:612:ALA:HB2	2:R:654:THR:HG23	2.00	0.42
2:R:841:LEU:O	2:R:845:LEU:HG	2.19	0.42
2:R:893:ASP:OD1	2:R:894:TYR:N	2.52	0.42
2:S:111:ASP:CB	2:S:114:LYS:HG2	2.49	0.42
2:S:114:LYS:HE3	2:S:114:LYS:CA	2.36	0.42
2:S:199:ILE:HA	2:S:202:GLU:CD	2.37	0.42
2:S:452:THR:C	2:S:456:GLN:HE22	2.22	0.42
2:S:723:ILE:HG21	2:S:844:LEU:HD21	2.01	0.42
1:A:55:TYR:CZ	1:L:550:SER:HB2	2.54	0.42
1:A:145:ARG:HB2	1:A:146:GLU:OE1	2.19	0.42
1:A:165:TRP:CE2	1:A:169:LEU:HD11	2.54	0.42
1:A:352:TYR:HD1	1:A:796:HIS:CG	2.37	0.42
1:A:356:ARG:HB3	1:A:421:HIS:NE2	2.34	0.42
1:B:133:TYR:HE1	1:B:759:SER:HA	1.84	0.42
1:C:20:LEU:HD13	1:C:235:GLN:O	2.19	0.42
1:C:66:LYS:CE	1:C:286:GLU:OE2	2.68	0.42
1:C:150:GLU:OE1	1:C:747:SER:OG	2.22	0.42
1:C:301:GLN:O	1:C:304:THR:OG1	2.30	0.42
1:C:389:TRP:O	1:C:391:HIS:N	2.51	0.42
1:D:436:ALA:O	1:D:440:LYS:HG2	2.18	0.42
1:E:11:LEU:HA	1:E:28:ARG:HH12	1.85	0.42
1:F:177:ARG:O	1:F:181:LYS:HG2	2.19	0.42
1:H:1:MET:SD	1:H:2:GLU:N	2.92	0.42
1:H:517:LEU:HD21	1:H:696:MET:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:THR:OG1	1:H:555:THR:HG23	2.19	0.42
1:I:165:TRP:O	1:I:169:LEU:HD13	2.18	0.42
1:J:39:GLU:OE2	1:J:40:GLN:HG3	2.19	0.42
1:J:178:ASP:OD1	1:J:323:MET:HB3	2.19	0.42
1:J:179:PHE:CZ	1:J:183:TRP:CD1	3.07	0.42
1:J:554:GLU:HG3	1:J:555:THR:N	2.35	0.42
1:K:19:SER:O	1:K:22:GLU:OE1	2.36	0.42
1:K:34:PHE:O	1:K:37:GLN:HG3	2.19	0.42
1:K:171:HIS:HB3	1:K:174:ALA:HB3	2.01	0.42
1:K:422:PHE:HB2	1:K:468:ALA:HA	2.00	0.42
1:L:165:TRP:NE1	1:L:169:LEU:HD11	2.34	0.42
1:L:723:HIS:HD2	1:L:727:TRP:CZ3	2.37	0.42
2:M:120:PRO:HD2	2:M:123:VAL:HB	2.01	0.42
2:M:303:PRO:O	2:M:307:ARG:HG3	2.18	0.42
2:M:743:PHE:CZ	2:S:654:THR:HG21	2.55	0.42
2:N:36:SER:O	2:N:40:GLN:OE1	2.37	0.42
2:N:117:ARG:HG3	2:N:118:HIS:NE2	2.32	0.42
2:N:129:LEU:CA	2:N:132:MET:SD	2.96	0.42
2:N:468:PRO:HG3	2:N:480:ILE:HG13	2.01	0.42
2:N:770:ASN:ND2	2:N:859:GLY:HA3	2.34	0.42
2:N:816:GLU:HA	2:N:819:LYS:HZ1	1.84	0.42
2:N:846:ILE:O	2:N:852:HIS:NE2	2.42	0.42
2:O:728:ARG:NE	2:O:796:VAL:HG12	2.28	0.42
2:O:833:LYS:CE	2:O:838:THR:N	2.82	0.42
2:P:139:GLY:O	2:P:140:TYR:HB3	2.19	0.42
2:P:551:ALA:HB1	2:P:624:ASN:HA	2.01	0.42
2:P:727:ILE:HD12	2:P:841:LEU:CD2	2.47	0.42
2:P:733:LEU:CD1	2:P:789:GLU:HB3	2.50	0.42
2:P:828:LEU:HD21	2:P:838:THR:CG2	2.49	0.42
2:Q:107:LEU:CD2	2:Q:128:ARG:NH2	2.81	0.42
2:Q:261:ILE:HA	2:Q:264:LYS:CE	2.47	0.42
2:Q:468:PRO:HG3	2:Q:480:ILE:HG22	2.01	0.42
2:Q:639:ARG:HA	2:Q:642:ILE:HG12	2.01	0.42
2:Q:646:PHE:O	2:Q:650:ILE:HD12	2.19	0.42
2:Q:857:PRO:HB3	2:Q:914:ILE:CD1	2.49	0.42
2:R:196:LEU:CB	2:R:240:PHE:HZ	2.25	0.42
2:R:313:MET:SD	2:R:313:MET:N	2.91	0.42
2:R:313:MET:O	2:R:317:VAL:HG13	2.20	0.42
2:R:379:LEU:O	2:R:382:VAL:HG12	2.19	0.42
2:R:382:VAL:HB	2:R:424:SER:OG	2.19	0.42
2:R:576:LEU:HB2	2:R:618:ASP:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:649:VAL:HG13	2:R:650:ILE:H	1.84	0.42
2:R:744:ASN:ND2	2:R:809:ASN:HB3	2.35	0.42
2:R:824:ILE:HG22	2:R:828:LEU:HD13	2.00	0.42
2:R:856:PHE:HB2	2:R:887:LEU:HD11	2.01	0.42
2:S:287:GLY:O	2:S:290:VAL:N	2.52	0.42
2:S:345:ARG:O	2:S:348:ILE:HG12	2.19	0.42
2:S:428:ASN:ND2	2:S:474:ALA:HA	2.34	0.42
2:S:486:VAL:CG2	2:S:731:ALA:HB2	2.47	0.42
2:S:600:ALA:O	2:S:604:MET:SD	2.76	0.42
2:S:732:LEU:CB	2:S:736:LYS:HZ3	2.32	0.42
2:S:755:ARG:CD	2:S:767:SER:HA	2.34	0.42
1:A:169:LEU:HB3	1:A:264:TYR:CE1	2.55	0.42
1:A:397:ILE:O	1:A:401:LEU:HD13	2.18	0.42
1:A:778:ASP:HA	1:A:781:ARG:NE	2.35	0.42
1:B:92:LEU:N	1:B:93:PRO:HD2	2.34	0.42
1:D:165:TRP:CE2	1:D:299:GLN:HG2	2.53	0.42
1:D:458:ARG:HD2	1:D:458:ARG:N	2.34	0.42
1:E:392:GLU:CD	1:E:393:LYS:HE3	2.40	0.42
1:F:326:LEU:HD22	1:F:360:LYS:NZ	2.35	0.42
1:F:400:VAL:O	1:F:404:LEU:HD13	2.19	0.42
1:G:236:ASN:OD1	1:G:239:GLN:HG3	2.20	0.42
1:H:18:VAL:HG22	1:H:19:SER:N	2.34	0.42
1:H:92:LEU:N	1:H:93:PRO:HD2	2.35	0.42
1:H:499:VAL:O	1:H:531:CYS:N	2.40	0.42
1:H:605:GLN:O	1:H:609:MET:CE	2.68	0.42
1:H:631:SER:O	1:H:634:LEU:HD23	2.19	0.42
1:J:788:GLU:O	1:J:792:ILE:HD12	2.19	0.42
1:K:218:LEU:CB	1:K:272:TRP:HZ2	2.32	0.42
1:K:381:LEU:O	1:K:385:MET:SD	2.76	0.42
1:K:692:VAL:O	1:K:696:MET:HG2	2.20	0.42
1:K:722:HIS:CE1	1:K:723:HIS:CE1	3.08	0.42
1:L:214:ILE:HD12	1:L:291:LEU:HB3	2.00	0.42
1:L:356:ARG:HB3	1:L:421:HIS:CE1	2.55	0.42
1:L:469:ALA:O	1:L:470:ALA:CB	2.66	0.42
1:L:497:TYR:HD2	1:L:499:VAL:HG13	1.84	0.42
1:L:782:LYS:O	1:L:785:GLU:OE1	2.38	0.42
2:M:159:GLN:HA	2:M:162:ARG:CG	2.49	0.42
2:M:293:LEU:HB3	2:M:297:TYR:CE1	2.54	0.42
2:N:151:GLU:HA	2:N:154:GLN:HG3	2.01	0.42
2:N:421:LEU:HD11	2:N:484:SER:OG	2.19	0.42
2:N:426:LEU:HA	2:N:429:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:431:ARG:HG3	2:O:291:GLU:HG2	2.01	0.42
2:N:529:GLU:O	2:N:532:ILE:CG1	2.67	0.42
2:N:804:GLU:HA	2:N:804:GLU:OE1	2.20	0.42
2:O:279:GLU:HB3	2:O:282:ARG:HG2	2.01	0.42
2:O:313:MET:HE3	2:O:328:ILE:HD12	2.01	0.42
2:O:314:LEU:O	2:O:314:LEU:HD12	2.19	0.42
2:O:444:ASP:OD1	2:O:445:SER:N	2.50	0.42
2:O:470:SER:O	2:O:476:ARG:NE	2.52	0.42
2:O:574:VAL:CG2	2:O:775:MET:HE3	2.46	0.42
2:P:105:LYS:O	2:P:216:ILE:HA	2.18	0.42
2:P:585:PRO:HG3	2:P:758:ARG:NE	2.25	0.42
2:P:656:ILE:HG22	2:P:657:VAL:N	2.34	0.42
2:P:798:ASP:OD2	2:P:798:ASP:C	2.58	0.42
2:Q:453:TYR:HE1	2:Q:478:CYS:HB2	1.84	0.42
2:Q:569:VAL:HG21	2:Q:774:ILE:CD1	2.49	0.42
2:Q:621:SER:OG	2:Q:624:ASN:HB2	2.19	0.42
2:R:109:THR:HA	2:R:219:THR:HG1	1.83	0.42
2:R:113:THR:O	2:S:239:LYS:HE3	2.20	0.42
2:R:129:LEU:HD23	2:R:132:MET:CE	2.48	0.42
2:R:336:MET:CE	2:R:338:ASP:HA	2.49	0.42
2:R:591:PHE:HE2	2:R:608:LEU:HD11	1.84	0.42
2:S:560:ASN:O	2:S:561:SER:HB2	2.17	0.42
2:S:608:LEU:HD23	2:S:608:LEU:C	2.40	0.42
2:S:773:LYS:HD3	2:S:777:PHE:CD2	2.54	0.42
1:A:177:ARG:NH1	1:A:180:GLU:OE1	2.52	0.42
1:B:151:THR:O	1:B:354:GLU:OE2	2.38	0.42
1:C:334:TYR:OH	1:C:369:LEU:HD11	2.19	0.42
1:C:579:ASP:O	1:C:580:ALA:C	2.56	0.42
1:D:567:LEU:HD21	1:D:688:LEU:CD2	2.49	0.42
1:D:656:TYR:HE1	1:D:660:LEU:HD11	1.84	0.42
1:F:201:PRO:HA	1:F:204:PHE:HB3	2.01	0.42
1:F:327:ARG:HA	1:F:327:ARG:NE	2.34	0.42
1:F:441:ASP:O	1:F:445:GLN:HG2	2.20	0.42
1:G:34:PHE:O	1:G:37:GLN:NE2	2.51	0.42
1:G:784:ALA:O	1:G:787:ASN:N	2.52	0.42
1:H:44:LEU:HD22	1:H:48:VAL:HB	2.02	0.42
1:H:213:ASN:HA	1:H:216:GLU:OE2	2.20	0.42
1:H:244:THR:OG1	1:H:251:GLU:HG3	2.19	0.42
1:H:693:MET:HA	1:H:741:MET:SD	2.60	0.42
1:I:4:PHE:CE1	1:I:37:GLN:HA	2.55	0.42
1:I:209:GLN:OE1	1:I:240:LEU:O	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:649:MET:CE	1:I:653:LEU:HG	2.49	0.42
1:I:650:LYS:HD2	1:I:654:LYS:HZ3	1.84	0.42
1:J:778:ASP:HA	1:J:781:ARG:CZ	2.50	0.42
1:K:165:TRP:CE2	1:K:299:GLN:HG2	2.54	0.42
1:K:378:TRP:CE3	1:K:379:GLU:HG3	2.55	0.42
1:K:465:GLY:HA2	1:K:494:HIS:O	2.20	0.42
1:L:494:HIS:HD1	1:L:795:PHE:HA	1.84	0.42
1:L:651:ARG:HB3	1:L:652:PRO:HD3	2.01	0.42
1:L:728:MET:O	1:L:782:LYS:NZ	2.41	0.42
1:L:758:LYS:O	1:L:762:TYR:CD2	2.73	0.42
2:M:451:PHE:CG	2:M:541:VAL:HG21	2.54	0.42
2:M:573:MET:HB3	2:M:621:SER:CB	2.49	0.42
2:M:762:HIS:HA	2:M:859:GLY:HA2	2.01	0.42
2:M:791:SER:HB2	2:M:839:HIS:HE2	1.84	0.42
2:N:114:LYS:NZ	2:O:239:LYS:HD3	2.34	0.42
2:N:238:ARG:CZ	2:N:297:TYR:OH	2.66	0.42
2:N:536:VAL:CA	2:N:541:VAL:HG12	2.49	0.42
2:N:657:VAL:CG1	2:N:661:SER:HB3	2.50	0.42
2:O:157:LEU:HA	2:O:160:LEU:HD21	1.99	0.42
2:O:256:LEU:O	2:O:260:LEU:HG	2.19	0.42
2:O:263:GLY:O	2:O:266:TYR:HB3	2.19	0.42
2:O:343:ASP:CB	2:O:346:GLN:HB3	2.50	0.42
2:O:495:SER:O	2:O:499:GLN:HG3	2.19	0.42
2:O:608:LEU:HD21	2:O:610:THR:OG1	2.20	0.42
2:O:727:ILE:HD11	2:O:841:LEU:CD1	2.49	0.42
2:P:49:ILE:HD11	2:P:214:LYS:CE	2.50	0.42
2:P:83:THR:O	2:P:86:ILE:CG1	2.67	0.42
2:P:122:LEU:HD11	2:P:123:VAL:HG23	2.02	0.42
2:P:262:ARG:HH12	2:P:290:VAL:HG12	1.82	0.42
2:P:453:TYR:CG	2:P:482:LEU:HD11	2.55	0.42
2:P:560:ASN:HD21	2:P:661:SER:HA	1.84	0.42
2:P:748:VAL:HG21	2:P:778:ASN:OD1	2.19	0.42
2:P:886:LEU:HD22	2:P:887:LEU:HG	1.99	0.42
2:Q:116:PRO:HG2	2:Q:119:GLU:OE2	2.19	0.42
2:Q:366:MET:SD	2:Q:367:TYR:CD2	3.12	0.42
2:Q:367:TYR:HA	2:Q:370:GLU:CD	2.39	0.42
2:Q:708:ASP:O	2:Q:712:LYS:HG3	2.19	0.42
2:Q:709:ALA:O	2:Q:713:VAL:HG23	2.20	0.42
2:R:93:LEU:O	2:R:93:LEU:HG	2.18	0.42
2:R:107:LEU:CD2	2:R:132:MET:CE	2.97	0.42
2:R:120:PRO:HD2	2:R:123:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:412:SER:OG	2:R:414:PRO:HD2	2.19	0.42
2:R:623:PHE:HA	2:R:626:ILE:HG22	2.02	0.42
2:S:93:LEU:HB3	2:S:106:CYS:SG	2.59	0.42
2:S:287:GLY:O	2:S:291:GLU:OE1	2.38	0.42
2:S:344:VAL:HG23	2:S:345:ARG:N	2.34	0.42
2:S:443:MET:HB3	2:S:500:MET:CE	2.50	0.42
2:S:510:ILE:HG13	2:S:511:PHE:N	2.34	0.42
2:S:573:MET:HA	2:S:621:SER:HA	2.00	0.42
2:S:577:ASN:ND2	2:S:921:THR:HG22	2.34	0.42
1:A:292:LEU:HD23	1:A:296:LEU:CD1	2.50	0.42
1:A:650:LYS:HE2	1:I:595:GLU:O	2.20	0.42
1:C:155:LEU:HG	1:C:748:ASP:OD1	2.19	0.42
1:C:401:LEU:HD11	1:C:459:LEU:CD1	2.50	0.42
1:D:111:ILE:HG12	1:D:132:LEU:HD11	2.01	0.42
1:D:146:GLU:O	1:D:351:ARG:NH1	2.53	0.42
1:D:150:GLU:OE2	1:D:151:THR:N	2.53	0.42
1:D:246:LEU:HD23	1:D:246:LEU:C	2.39	0.42
1:D:664:ASN:OD1	1:D:667:LYS:NZ	2.50	0.42
1:D:707:PRO:O	1:D:749:ASP:HA	2.19	0.42
1:E:12:LEU:HD13	1:E:297:LEU:CB	2.49	0.42
1:E:143:ILE:HD13	1:E:148:LEU:HG	2.02	0.42
1:E:152:HIS:HB3	1:E:746:GLY:HA3	2.01	0.42
1:E:424:LYS:H	1:E:470:ALA:HB3	1.85	0.42
1:E:511:ARG:NH1	1:E:512:SER:HG	2.10	0.42
1:E:693:MET:SD	1:E:741:MET:CE	3.08	0.42
1:F:162:GLU:CD	1:F:754:ALA:HB2	2.39	0.42
1:F:173:GLU:O	1:F:177:ARG:HG2	2.19	0.42
1:H:653:LEU:O	1:H:657:LYS:HG2	2.19	0.42
1:H:735:ILE:HG22	1:H:736:GLU:N	2.35	0.42
1:I:73:LEU:HD12	1:I:110:ILE:HA	2.02	0.42
1:I:339:LYS:O	1:I:342:HIS:O	2.37	0.42
1:I:465:GLY:HA2	1:I:494:HIS:O	2.19	0.42
1:I:649:MET:HE1	1:I:653:LEU:HD21	2.01	0.42
1:J:215:ARG:HH21	1:J:269:GLU:HA	1.85	0.42
1:J:401:LEU:HD11	1:J:459:LEU:CD2	2.49	0.42
1:J:535:GLY:O	1:J:726:ARG:HD3	2.19	0.42
1:J:565:ARG:HD2	1:J:604:ASP:OD1	2.19	0.42
1:K:1:MET:SD	1:K:56:LEU:HD22	2.59	0.42
1:L:116:VAL:HG12	1:L:117:PHE:CE1	2.55	0.42
1:L:342:HIS:CB	1:L:380:TYR:OH	2.67	0.42
1:L:471:ASN:HB3	1:L:474:HIS:ND1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:551:MET:CE	1:L:555:THR:HB	2.50	0.42
2:M:42:VAL:O	2:M:45:ILE:CG1	2.66	0.42
2:M:873:SER:CA	2:M:876:LYS:HE3	2.49	0.42
2:N:293:LEU:C	2:N:296:GLN:HE21	2.21	0.42
2:N:383:LEU:O	2:N:383:LEU:HG	2.20	0.42
2:N:449:ASP:O	2:N:452:THR:OG1	2.34	0.42
2:N:501:LEU:CD2	2:N:737:VAL:HG21	2.49	0.42
2:N:622:VAL:O	2:N:626:ILE:HG13	2.20	0.42
2:N:707:SER:C	2:N:710:ILE:HG12	2.39	0.42
2:N:843:PHE:HE1	2:N:881:ILE:O	2.02	0.42
2:N:858:ILE:HD12	2:N:915:THR:HB	2.01	0.42
2:O:350:ASP:O	2:O:351:ALA:C	2.58	0.42
2:O:352:VAL:HG23	2:O:353:ARG:N	2.34	0.42
2:O:377:ARG:NH2	2:O:380:MET:SD	2.91	0.42
2:O:438:GLN:HA	2:O:441:PHE:CE1	2.54	0.42
2:O:464:PHE:HE1	2:O:735:GLY:HA2	1.84	0.42
2:O:501:LEU:HD13	2:O:734:ILE:CG2	2.35	0.42
2:P:121:ILE:CA	2:P:124:THR:HG22	2.50	0.42
2:P:355:GLY:N	2:P:413:VAL:HG12	2.34	0.42
2:Q:316:LEU:HD23	2:Q:316:LEU:HA	1.87	0.42
2:Q:437:GLU:OE2	2:Q:440:ARG:CD	2.67	0.42
2:Q:445:SER:HA	2:Q:448:LYS:NZ	2.34	0.42
2:Q:580:SER:HB3	2:Q:590:LYS:CG	2.49	0.42
2:Q:658:PRO:HA	2:Q:659:PRO:HD3	1.88	0.42
2:Q:748:VAL:CG1	2:Q:811:VAL:HA	2.45	0.42
2:R:183:LEU:HD23	2:R:183:LEU:N	2.34	0.42
2:R:561:SER:H	2:R:562:PRO:HD2	1.84	0.42
2:R:880:GLU:OE2	2:R:881:ILE:HG13	2.20	0.42
2:S:82:LYS:HD3	2:S:82:LYS:N	2.34	0.42
2:S:197:SER:OG	2:S:198:GLU:N	2.52	0.42
2:S:231:TRP:CE2	2:S:264:LYS:HD2	2.55	0.42
2:S:356:LEU:HB3	2:S:358:LEU:HD21	2.02	0.42
2:S:498:LEU:HB3	2:S:630:ALA:HB2	2.01	0.42
2:S:527:LYS:HE3	2:S:527:LYS:HB3	1.92	0.42
2:S:805:GLY:N	2:S:807:ARG:HH12	2.18	0.42
1:A:39:GLU:OE2	1:L:42:ARG:NH2	2.52	0.42
1:A:55:TYR:O	1:A:56:LEU:C	2.57	0.42
1:A:689:GLN:O	1:A:693:MET:SD	2.78	0.42
1:C:74:ARG:NH2	1:C:117:PHE:HB2	2.34	0.42
1:C:456:GLU:HB3	1:C:459:LEU:HD13	2.01	0.42
1:D:542:LYS:CD	1:D:677:LEU:HD11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:647:THR:HG23	1:D:648:GLY:N	2.34	0.42
1:E:464:ARG:NE	1:E:464:ARG:HA	2.34	0.42
1:E:493:ALA:O	1:E:494:HIS:HB2	2.19	0.42
1:E:599:SER:O	1:E:602:THR:OG1	2.24	0.42
1:F:55:TYR:HH	1:G:551:MET:H	1.68	0.42
1:F:606:VAL:HG22	1:F:652:PRO:HA	2.00	0.42
1:G:3:ARG:NH1	1:G:4:PHE:CE1	2.87	0.42
1:G:11:LEU:HD23	1:G:297:LEU:HD21	2.00	0.42
1:G:149:HIS:ND1	1:G:351:ARG:HB3	2.35	0.42
1:G:187:GLU:HG3	1:G:188:MET:N	2.34	0.42
1:G:188:MET:SD	1:G:192:CYS:SG	3.15	0.42
1:H:236:ASN:OD1	1:H:238:GLN:OE1	2.37	0.42
1:I:73:LEU:HD11	1:I:109:PRO:HB2	2.00	0.42
1:I:79:LYS:HG3	1:I:80:PHE:CD2	2.55	0.42
1:I:129:ARG:CZ	1:I:129:ARG:HA	2.50	0.42
1:I:651:ARG:HB3	1:I:652:PRO:HD3	2.02	0.42
1:J:227:LEU:O	1:J:227:LEU:CD1	2.63	0.42
1:J:542:LYS:HA	1:J:545:LEU:HD12	2.02	0.42
1:L:286:GLU:CA	1:L:289:GLU:OE1	2.67	0.42
2:M:287:GLY:O	2:M:291:GLU:OE1	2.37	0.42
2:M:366:MET:SD	2:M:367:TYR:CD1	3.13	0.42
2:M:377:ARG:HA	2:M:380:MET:HE3	2.02	0.42
2:M:377:ARG:CA	2:M:380:MET:HG2	2.48	0.42
2:M:446:LEU:O	2:M:450:ILE:CD1	2.65	0.42
2:M:539:MET:SD	2:M:541:VAL:CB	3.02	0.42
2:M:600:ALA:O	2:M:604:MET:CE	2.68	0.42
2:M:878:ILE:O	2:M:882:VAL:HG23	2.20	0.42
2:N:41:LEU:HD22	2:N:89:VAL:HG11	2.02	0.42
2:N:108:PRO:CB	2:O:191:ILE:HG13	2.49	0.42
2:N:303:PRO:HB2	2:N:306:LYS:NZ	2.34	0.42
2:N:303:PRO:HD2	2:N:306:LYS:HE2	2.02	0.42
2:N:563:ASN:O	2:N:564:ASP:HB2	2.20	0.42
2:O:642:ILE:CG2	2:O:710:ILE:HG23	2.49	0.42
2:O:855:ILE:HG23	2:O:856:PHE:N	2.35	0.42
2:P:136:LYS:HZ3	2:P:210:ILE:C	2.23	0.42
2:P:223:ILE:HD12	2:P:227:PHE:C	2.39	0.42
2:P:273:LEU:HG	2:P:286:ARG:NH1	2.34	0.42
2:P:319:GLU:OE2	2:P:322:LYS:HB3	2.19	0.42
2:P:349:GLY:HA2	2:P:368:VAL:HG11	2.01	0.42
2:P:417:LEU:HG	2:P:421:LEU:CD1	2.50	0.42
2:P:433:GLY:C	2:P:434:LEU:HD23	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:443:MET:SD	2:P:500:MET:CE	3.07	0.42
2:P:770:ASN:O	2:P:773:LYS:HG2	2.20	0.42
2:Q:227:PHE:CZ	2:R:268:ASN:HB3	2.55	0.42
2:Q:292:HIS:O	2:Q:295:GLN:HB2	2.19	0.42
2:Q:364:ALA:O	2:Q:368:VAL:HG23	2.20	0.42
2:Q:456:GLN:O	2:Q:458:ARG:NH1	2.53	0.42
2:Q:469:GLN:NE2	2:Q:469:GLN:O	2.51	0.42
2:Q:544:ILE:HD13	2:Q:550:TRP:CD1	2.54	0.42
2:Q:858:ILE:HG12	2:Q:895:LEU:CD2	2.49	0.42
2:R:359:ARG:HG2	2:R:795:SER:HA	2.00	0.42
2:R:437:GLU:HG2	2:R:440:ARG:HB2	2.01	0.42
2:R:501:LEU:O	2:R:505:CYS:HB3	2.20	0.42
2:S:103:ASN:N	2:S:214:LYS:HE2	2.34	0.42
2:S:128:ARG:CA	2:S:131:LYS:HZ2	2.31	0.42
2:S:352:VAL:HG23	2:S:356:LEU:CD1	2.46	0.42
2:S:784:HIS:HB2	2:S:817:PHE:CD1	2.55	0.42
1:C:139:VAL:HG11	1:C:762:TYR:CE1	2.55	0.42
1:C:246:LEU:HB2	1:C:251:GLU:OE1	2.19	0.42
1:C:426:LYS:HB3	1:C:474:HIS:CD2	2.55	0.42
1:C:493:ALA:O	1:C:494:HIS:HB2	2.20	0.42
1:C:601:THR:OG1	1:C:602:THR:N	2.52	0.42
1:D:499:VAL:O	1:D:531:CYS:N	2.45	0.42
1:E:69:PRO:HD3	1:E:293:TRP:HD1	1.82	0.42
1:E:81:ILE:HG12	1:E:90:ILE:HD11	2.01	0.42
1:E:185:SER:OG	1:E:187:GLU:OE1	2.37	0.42
1:E:678:GLU:O	1:E:678:GLU:OE1	2.38	0.42
1:F:35:LEU:O	1:F:38:TYR:HB3	2.20	0.42
1:F:77:ALA:HB1	1:F:114:HIS:ND1	2.35	0.42
1:F:202:ARG:NH1	1:F:203:ILE:HD13	2.34	0.42
1:F:527:ARG:CZ	1:F:744:CYS:SG	3.07	0.42
1:G:95:PHE:CE1	1:G:134:PRO:HD3	2.55	0.42
1:G:334:TYR:CD1	1:G:337:ARG:NH2	2.88	0.42
1:G:599:SER:OG	1:G:601:THR:OG1	2.35	0.42
1:H:526:ASP:O	1:H:701:ILE:HD12	2.20	0.42
1:H:527:ARG:CZ	1:H:795:PHE:CE2	3.02	0.42
1:H:757:LEU:HD23	1:H:757:LEU:C	2.40	0.42
1:I:111:ILE:HD12	1:I:128:PHE:CE1	2.55	0.42
1:I:464:ARG:HA	1:I:464:ARG:CZ	2.50	0.42
1:I:483:LEU:O	1:I:486:VAL:HG12	2.20	0.42
1:J:74:ARG:HG2	1:J:78:GLU:OE2	2.20	0.42
1:J:128:PHE:O	1:J:129:ARG:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:GLY:CA	1:J:279:LYS:HZ2	2.32	0.42
1:K:494:HIS:HB3	1:K:795:PHE:CD2	2.54	0.42
1:K:680:LEU:HD11	1:K:685:VAL:CG2	2.49	0.42
1:K:705:CYS:O	1:K:705:CYS:SG	2.78	0.42
2:M:131:LYS:HG2	2:N:192:GLY:HA2	2.01	0.42
2:M:304:VAL:CA	2:M:307:ARG:CZ	2.96	0.42
2:M:473:GLU:O	2:M:477:ASN:OD1	2.38	0.42
2:N:303:PRO:HG2	2:N:306:LYS:NZ	2.35	0.42
2:N:426:LEU:CA	2:N:429:ILE:HG12	2.49	0.42
2:N:467:ARG:HA	2:N:468:PRO:HD3	1.82	0.42
2:N:736:LYS:HA	2:N:739:SER:OG	2.19	0.42
2:N:748:VAL:C	2:N:752:HIS:HD1	2.18	0.42
2:O:38:ARG:C	2:O:38:ARG:HD2	2.40	0.42
2:O:107:LEU:HA	2:O:132:MET:HE1	1.99	0.42
2:O:110:ILE:O	2:O:221:ASP:N	2.45	0.42
2:O:271:LYS:O	2:O:274:LEU:N	2.52	0.42
2:O:333:GLU:N	2:O:336:MET:HE3	2.26	0.42
2:O:366:MET:SD	2:O:467:ARG:CZ	3.08	0.42
2:O:414:PRO:O	2:O:418:ARG:HD2	2.19	0.42
2:O:570:PHE:HB2	2:O:573:MET:HG2	1.99	0.42
2:P:103:ASN:H	2:P:214:LYS:HE2	1.84	0.42
2:P:277:GLU:HB2	2:P:286:ARG:HH21	1.81	0.42
2:P:418:ARG:HG3	2:P:419:ASN:N	2.35	0.42
2:P:526:GLU:C	2:P:529:GLU:HG3	2.38	0.42
2:Q:107:LEU:HA	2:Q:108:PRO:HD3	1.95	0.42
2:Q:248:VAL:HG12	2:Q:249:VAL:N	2.35	0.42
2:Q:501:LEU:HD11	2:Q:502:LEU:HG	1.98	0.42
2:Q:642:ILE:CD1	2:Q:717:LEU:HD22	2.50	0.42
2:Q:727:ILE:CD1	2:Q:841:LEU:HD11	2.46	0.42
2:Q:727:ILE:HD12	2:Q:841:LEU:HD21	2.00	0.42
2:Q:747:ASN:OD1	2:Q:811:VAL:HG11	2.19	0.42
2:Q:917:LEU:HD12	2:Q:917:LEU:H	1.83	0.42
2:R:105:LYS:NZ	2:R:211:LEU:HB3	2.35	0.42
2:R:131:LYS:HG3	2:S:192:GLY:HA2	2.02	0.42
2:R:198:GLU:HA	2:R:201:GLU:CD	2.40	0.42
2:R:367:TYR:CE2	2:R:468:PRO:HD3	2.54	0.42
2:R:386:PHE:CE2	2:R:390:LYS:HE2	2.55	0.42
2:R:748:VAL:HA	2:R:752:HIS:CE1	2.55	0.42
2:R:852:HIS:HA	2:R:855:ILE:HD11	2.00	0.42
2:S:126:THR:CG2	2:S:160:LEU:HD21	2.38	0.42
2:S:231:TRP:CD1	2:S:264:LYS:CD	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:561:SER:CB	2:S:562:PRO:CD	2.97	0.42
2:S:573:MET:HE2	2:S:575:GLN:CG	2.49	0.42
1:A:425:ARG:H	1:A:438:LEU:HD21	1.84	0.42
1:A:592:PHE:HB2	1:A:594:LEU:HG	2.02	0.42
1:B:480:PHE:HA	1:B:483:LEU:HD12	2.02	0.42
1:B:601:THR:O	1:B:605:GLN:HG2	2.20	0.42
1:B:681:PRO:HG2	1:B:684:ALA:HB2	2.02	0.42
1:C:67:LEU:HD12	1:C:67:LEU:O	2.19	0.42
1:C:493:ALA:HB1	1:C:523:ARG:NH2	2.34	0.42
1:D:180:GLU:HG2	1:D:181:LYS:N	2.34	0.42
1:D:419:VAL:HG23	1:D:466:VAL:HA	2.02	0.42
1:E:206:ASP:O	1:E:210:ILE:HG13	2.20	0.42
1:E:556:ARG:NE	1:E:587:LEU:HD23	2.34	0.42
1:F:351:ARG:O	1:F:415:GLU:OE1	2.38	0.42
1:G:357:PHE:O	1:G:420:PRO:HA	2.19	0.42
1:H:53:TRP:CZ3	1:H:57:VAL:HG11	2.54	0.42
1:I:153:GLN:N	1:I:356:ARG:HH21	2.18	0.42
1:J:112:ALA:CB	1:J:273:LEU:CD1	2.98	0.42
1:J:205:LYS:HE2	1:J:209:GLN:HG2	2.01	0.42
1:K:405:GLU:OE2	1:K:406:LEU:HD12	2.20	0.42
1:K:481:CYS:SG	1:K:520:LEU:HD23	2.59	0.42
1:K:726:ARG:HH21	1:K:735:ILE:HD13	1.83	0.42
1:L:19:SER:O	1:L:290:ARG:NH1	2.52	0.42
2:M:113:THR:C	2:M:114:LYS:HD3	2.40	0.42
2:M:304:VAL:HG23	2:M:305:GLN:N	2.34	0.42
2:M:415:ASN:HA	2:M:418:ARG:HD2	2.01	0.42
2:M:573:MET:HE3	2:M:573:MET:HB3	1.91	0.42
2:M:608:LEU:HD21	2:M:618:ASP:OD1	2.19	0.42
2:M:933:ALA:O	2:M:934:ARG:HB2	2.20	0.42
2:N:114:LYS:HZ1	2:O:239:LYS:HD3	1.84	0.42
2:N:533:SER:O	2:N:536:VAL:CG2	2.68	0.42
2:N:561:SER:H	2:N:562:PRO:HD2	1.85	0.42
2:N:754:THR:O	2:N:754:THR:HG23	2.19	0.42
2:N:787:LEU:HD13	2:N:842:PHE:CE2	2.55	0.42
2:N:894:TYR:HA	2:N:897:LYS:HZ2	1.85	0.42
2:O:519:ALA:HA	2:O:527:LYS:NZ	2.35	0.42
2:O:580:SER:CB	2:O:590:LYS:HB3	2.49	0.42
2:O:602:ALA:HB2	2:O:706:PHE:CE1	2.55	0.42
2:P:196:LEU:HB3	2:P:240:PHE:HE1	1.84	0.42
2:P:296:GLN:HE22	2:P:297:TYR:HB2	1.84	0.42
2:P:494:LEU:HD23	2:P:494:LEU:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:765:MET:SD	2:P:767:SER:HB3	2.60	0.42
2:Q:39:ASP:O	2:Q:43:GLU:OE1	2.38	0.42
2:Q:130:ASN:CA	2:Q:153:TRP:HH2	2.22	0.42
2:Q:208:CYS:CB	2:Q:245:LYS:CE	2.98	0.42
2:Q:394:THR:O	2:Q:394:THR:HG22	2.19	0.42
2:Q:427:SER:HB3	2:R:295:GLN:HG2	2.01	0.42
2:Q:498:LEU:O	2:Q:502:LEU:HG	2.20	0.42
2:Q:544:ILE:HD13	2:Q:550:TRP:HD1	1.85	0.42
2:R:200:PHE:HA	2:R:203:LEU:CD1	2.37	0.42
2:S:217:LEU:HA	2:S:247:VAL:CG1	2.49	0.42
2:S:217:LEU:HD21	2:S:249:VAL:HG11	2.01	0.42
2:S:234:LEU:HA	2:S:237:ILE:CD1	2.33	0.42
2:S:437:GLU:HB3	2:S:440:ARG:HG2	2.02	0.42
2:S:712:LYS:HG3	2:S:849:PRO:CB	2.44	0.42
2:S:792:LEU:HD13	2:S:793:TYR:CZ	2.55	0.42
2:S:828:LEU:HD11	2:S:839:HIS:HE1	1.85	0.42
1:A:99:GLN:HE22	1:A:763:HIS:HB2	1.85	0.42
1:A:194:GLN:OE1	1:L:35:LEU:HD13	2.19	0.42
1:A:246:LEU:HD12	1:A:250:ARG:O	2.20	0.42
1:B:304:THR:O	1:B:307:VAL:HG22	2.19	0.42
1:B:518:ARG:NH1	1:B:519:PHE:CZ	2.88	0.42
1:B:719:VAL:HG11	1:B:763:HIS:CE1	2.55	0.42
1:C:499:VAL:HG12	1:C:513:ILE:HG12	2.02	0.42
1:C:513:ILE:HD13	1:C:534:ILE:CD1	2.49	0.42
1:D:92:LEU:HD23	1:D:134:PRO:CB	2.50	0.42
1:D:505:HIS:O	1:D:508:SER:N	2.52	0.42
1:D:559:ASP:O	1:D:563:ILE:HG13	2.19	0.42
1:D:719:VAL:O	1:D:722:HIS:N	2.49	0.42
1:D:728:MET:O	1:D:728:MET:SD	2.78	0.42
1:D:743:ILE:HD12	1:D:743:ILE:N	2.35	0.42
1:E:426:LYS:N	1:E:474:HIS:HD2	2.17	0.42
1:E:542:LYS:HG2	1:E:677:LEU:HD22	2.01	0.42
1:F:140:GLU:O	1:F:143:ILE:HG22	2.20	0.42
1:G:446:ALA:HB2	1:G:483:LEU:HD11	2.01	0.42
1:G:511:ARG:NH1	1:G:558:LEU:HB3	2.35	0.42
1:G:613:LEU:HD22	1:G:636:GLU:OE1	2.20	0.42
1:G:758:LYS:O	1:G:761:PHE:HB3	2.20	0.42
1:H:29:VAL:O	1:H:33:VAL:HG23	2.20	0.42
1:H:70:VAL:HG13	1:H:71:ALA:N	2.34	0.42
1:H:187:GLU:HG3	1:H:188:MET:SD	2.60	0.42
1:I:136:HIS:O	1:I:140:GLU:OE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:204:PHE:HA	1:I:207:ARG:NH1	2.34	0.42
1:I:218:LEU:HD23	1:I:288:LEU:CD1	2.50	0.42
1:J:483:LEU:CD2	1:J:487:LEU:HD11	2.50	0.42
1:J:594:LEU:HD11	1:J:596:GLU:OE2	2.19	0.42
1:K:351:ARG:CG	1:K:791:ARG:NH2	2.83	0.42
1:K:360:LYS:O	1:K:366:MET:CE	2.68	0.42
1:L:69:PRO:HD3	1:L:293:TRP:HE3	1.85	0.42
2:M:161:GLN:HB2	2:N:177:PHE:CE2	2.55	0.42
2:M:282:ARG:HD2	2:M:282:ARG:HA	1.79	0.42
2:M:750:ASP:HA	2:M:753:LYS:CE	2.39	0.42
2:N:329:LYS:NZ	2:N:343:ASP:H	2.17	0.42
2:N:427:SER:CB	2:O:295:GLN:HG2	2.46	0.42
2:N:765:MET:CE	2:N:766:ALA:H	2.33	0.42
2:O:288:TYR:HD2	2:O:289:MET:CE	2.32	0.42
2:O:412:SER:O	2:O:415:ASN:OD1	2.38	0.42
2:O:426:LEU:HA	2:O:429:ILE:HG22	2.01	0.42
2:O:492:GLY:H	2:O:727:ILE:CG2	2.32	0.42
2:P:151:GLU:H	2:P:151:GLU:CD	2.21	0.42
2:P:200:PHE:CE1	2:P:241:PHE:HE1	2.38	0.42
2:P:223:ILE:HD13	2:P:230:GLY:HA3	2.02	0.42
2:P:917:LEU:HA	2:P:920:SER:OG	2.19	0.42
2:Q:152:GLN:CD	2:Q:206:ARG:HH11	2.23	0.42
2:Q:173:LYS:HD2	2:Q:176:TYR:H	1.83	0.42
2:Q:372:LEU:HG	2:Q:372:LEU:O	2.19	0.42
2:Q:511:PHE:HA	2:Q:515:VAL:HB	2.02	0.42
2:Q:727:ILE:C	2:Q:729:PRO:HD3	2.40	0.42
2:Q:732:LEU:O	2:Q:736:LYS:HG2	2.20	0.42
2:Q:824:ILE:HG22	2:Q:828:LEU:HD13	2.02	0.42
2:R:218:ILE:HG13	2:R:248:VAL:HA	2.02	0.42
2:R:304:VAL:HG12	2:R:307:ARG:CZ	2.50	0.42
2:R:524:ASP:OD1	2:R:526:GLU:N	2.53	0.42
2:R:524:ASP:CA	2:R:527:LYS:HE3	2.50	0.42
2:R:787:LEU:HD12	2:R:839:HIS:CD2	2.55	0.42
2:S:73:PHE:O	2:S:308:ILE:N	2.41	0.42
2:S:111:ASP:CG	2:S:114:LYS:HG2	2.40	0.42
2:S:349:GLY:HA2	2:S:368:VAL:HG11	2.02	0.42
2:S:413:VAL:N	2:S:414:PRO:CD	2.82	0.42
2:S:446:LEU:O	2:S:450:ILE:CD1	2.56	0.42
1:A:199:LEU:HD21	1:A:305:LEU:HD22	2.01	0.41
1:B:102:MET:SD	1:B:107:CYS:HB3	2.60	0.41
1:B:173:GLU:HG2	1:B:174:ALA:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:GLU:HB3	1:B:372:SER:O	2.19	0.41
1:B:418:LEU:CB	1:B:463:ILE:HD13	2.46	0.41
1:B:517:LEU:CB	1:B:695:LYS:HE2	2.45	0.41
1:C:226:GLU:O	1:C:227:LEU:C	2.57	0.41
1:C:578:SER:HB2	1:L:568:ARG:HD3	2.01	0.41
1:C:722:HIS:O	1:C:725:PHE:HD2	2.03	0.41
1:D:199:LEU:O	1:D:200:THR:O	2.37	0.41
1:D:215:ARG:HB2	1:D:295:TYR:CE1	2.55	0.41
1:D:336:SER:O	1:D:340:HIS:CD2	2.73	0.41
1:D:433:TYR:CZ	1:D:436:ALA:HA	2.55	0.41
1:D:736:GLU:HG2	1:D:737:GLY:N	2.35	0.41
1:E:44:LEU:HD11	1:E:48:VAL:HB	2.02	0.41
1:F:136:HIS:CE1	1:F:138:THR:OG1	2.72	0.41
1:F:168:ALA:O	1:F:172:PRO:N	2.53	0.41
1:F:758:LYS:CE	1:F:762:TYR:HE2	2.33	0.41
1:G:40:GLN:OE1	1:G:41:ALA:HB2	2.19	0.41
1:G:718:ASN:OD1	1:G:718:ASN:C	2.58	0.41
1:G:739:VAL:HG12	1:G:740:PRO:CD	2.50	0.41
1:H:90:ILE:HD11	1:H:132:LEU:HB2	2.02	0.41
1:H:297:LEU:O	1:H:301:GLN:HG2	2.20	0.41
1:H:322:THR:O	1:H:326:LEU:HG	2.19	0.41
1:H:537:THR:HG22	1:H:726:ARG:NH1	2.35	0.41
1:I:511:ARG:HD2	1:I:515:ASP:OD2	2.20	0.41
1:J:787:ASN:OD1	1:J:791:ARG:NH2	2.53	0.41
1:K:152:HIS:HB2	1:K:704:GLU:OE2	2.20	0.41
1:K:601:THR:O	1:K:605:GLN:HG2	2.20	0.41
2:M:103:ASN:H	2:M:214:LYS:CD	2.33	0.41
2:M:117:ARG:HG2	2:M:118:HIS:CE1	2.55	0.41
2:M:155:ASN:C	2:M:159:GLN:HE22	2.22	0.41
2:M:839:HIS:N	2:M:840:PRO:CD	2.83	0.41
2:N:82:LYS:HZ2	2:N:252:GLY:HA2	1.85	0.41
2:N:159:GLN:HA	2:N:162:ARG:NH2	2.35	0.41
2:N:230:GLY:O	2:N:234:LEU:CD1	2.68	0.41
2:N:440:ARG:HH21	2:O:373:LYS:NZ	2.18	0.41
2:N:452:THR:O	2:N:455:LYS:HB3	2.20	0.41
2:N:612:ALA:HB2	2:N:654:THR:HG23	1.98	0.41
2:N:732:LEU:O	2:N:736:LYS:HG2	2.19	0.41
2:N:855:ILE:HG22	2:N:856:PHE:CE2	2.55	0.41
2:O:38:ARG:O	2:O:42:VAL:HG23	2.20	0.41
2:O:211:LEU:HB2	2:O:213:CYS:SG	2.60	0.41
2:O:629:ILE:HD13	2:O:850:ILE:HD12	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:799:ARG:HD2	2:O:800:GLU:C	2.40	0.41
2:O:833:LYS:NZ	2:O:838:THR:H	2.17	0.41
2:O:847:SER:OG	2:O:882:VAL:HG13	2.20	0.41
2:P:244:ARG:NE	2:P:244:ARG:HA	2.35	0.41
2:P:318:GLY:CA	2:P:323:ALA:HB3	2.22	0.41
2:P:415:ASN:O	2:P:418:ARG:HG3	2.20	0.41
2:P:490:CYS:SG	2:P:500:MET:SD	3.17	0.41
2:P:568:GLY:O	2:P:574:VAL:HG13	2.20	0.41
2:P:596:GLU:O	2:P:601:LYS:HD2	2.19	0.41
2:P:610:THR:HB	2:P:653:THR:O	2.19	0.41
2:P:646:PHE:HE2	2:P:706:PHE:CD2	2.37	0.41
2:P:865:VAL:HG23	2:P:866:LYS:N	2.34	0.41
2:Q:105:LYS:HB2	2:Q:216:ILE:HD12	2.01	0.41
2:Q:205:LYS:NZ	2:Q:245:LYS:CD	2.83	0.41
2:Q:271:LYS:N	2:Q:271:LYS:HD3	2.35	0.41
2:Q:354:GLU:HG3	2:Q:413:VAL:HG21	2.02	0.41
2:Q:421:LEU:HB3	2:Q:481:TYR:HD2	1.85	0.41
2:Q:613:SER:O	2:Q:614:ASN:HB2	2.20	0.41
2:Q:893:ASP:HA	2:Q:896:THR:OG1	2.20	0.41
2:Q:910:PHE:O	2:Q:913:THR:HG22	2.20	0.41
2:R:260:LEU:HD12	2:R:261:ILE:HG23	2.01	0.41
2:R:297:TYR:CE1	2:R:301:LEU:HD21	2.55	0.41
2:R:481:TYR:O	2:R:484:SER:OG	2.33	0.41
2:R:570:PHE:CE1	2:R:575:GLN:HB2	2.54	0.41
2:R:577:ASN:ND2	2:R:921:THR:HG22	2.35	0.41
2:R:642:ILE:HD11	2:R:714:GLU:CD	2.40	0.41
2:R:763:GLY:CA	2:R:773:LYS:HZ2	2.34	0.41
2:S:122:LEU:HD11	2:S:240:PHE:CD1	2.55	0.41
2:S:200:PHE:O	2:S:203:LEU:HB2	2.19	0.41
2:S:282:ARG:HE	2:S:285:GLU:CD	2.15	0.41
2:S:378:LEU:HD23	2:S:378:LEU:C	2.41	0.41
2:S:383:LEU:C	2:S:383:LEU:HD12	2.40	0.41
2:S:828:LEU:HD11	2:S:839:HIS:CE1	2.54	0.41
1:A:360:LYS:O	1:A:366:MET:SD	2.78	0.41
1:A:678:GLU:O	1:A:678:GLU:HG3	2.20	0.41
1:B:3:ARG:HE	1:B:104:ARG:HG3	1.85	0.41
1:B:67:LEU:O	1:B:293:TRP:HZ2	2.03	0.41
1:B:70:VAL:HG13	1:B:71:ALA:N	2.35	0.41
1:B:96:SER:HA	1:B:99:GLN:OE1	2.20	0.41
1:B:218:LEU:HB2	1:B:272:TRP:HZ2	1.86	0.41
1:B:304:THR:O	1:B:308:GLN:OE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:GLU:OE2	1:B:331:GLU:N	2.53	0.41
1:B:728:MET:O	1:B:782:LYS:CE	2.68	0.41
1:B:789:ASN:HA	1:B:792:ILE:HD12	2.02	0.41
1:C:22:GLU:OE2	1:C:25:LEU:CD2	2.68	0.41
1:C:133:TYR:CE2	1:C:758:LYS:CD	3.03	0.41
1:C:356:ARG:HB3	1:C:421:HIS:NE2	2.35	0.41
1:C:401:LEU:O	1:C:405:GLU:HG2	2.21	0.41
1:C:553:LYS:NZ	1:C:672:TYR:C	2.74	0.41
1:C:724:ILE:HG23	1:C:725:PHE:N	2.36	0.41
1:D:38:TYR:O	1:D:42:ARG:NE	2.45	0.41
1:D:183:TRP:HA	1:D:188:MET:HE2	2.02	0.41
1:D:260:ILE:HG22	1:D:261:ASP:N	2.35	0.41
1:D:421:HIS:O	1:D:422:PHE:HD1	2.02	0.41
1:F:562:PHE:O	1:F:563:ILE:C	2.58	0.41
1:G:75:LEU:O	1:G:78:GLU:HG3	2.20	0.41
1:G:535:GLY:HA3	1:G:727:TRP:CH2	2.55	0.41
1:H:389:TRP:O	1:H:391:HIS:N	2.53	0.41
1:H:590:LYS:HE2	1:H:590:LYS:HA	2.02	0.41
1:H:764:LEU:O	1:H:768:LEU:HG	2.20	0.41
1:J:215:ARG:HD3	1:J:215:ARG:O	2.20	0.41
1:J:367:GLN:N	1:J:452:MET:HE1	2.36	0.41
1:J:563:ILE:CG2	1:J:567:LEU:HD12	2.50	0.41
1:J:654:LYS:HG3	1:J:655:LEU:HD22	2.02	0.41
1:K:752:ILE:CG2	1:K:755:ALA:HB2	2.50	0.41
1:L:106:SER:CB	1:L:299:GLN:HE22	2.33	0.41
1:L:166:LEU:HD21	1:L:269:GLU:CG	2.49	0.41
2:M:219:THR:HG22	2:M:249:VAL:HG11	2.02	0.41
2:M:366:MET:CE	2:M:467:ARG:NE	2.83	0.41
2:M:560:ASN:ND2	2:M:661:SER:HB3	2.35	0.41
2:M:713:VAL:HG12	2:M:717:LEU:HD13	2.02	0.41
2:N:110:ILE:O	2:N:110:ILE:HG23	2.20	0.41
2:N:125:VAL:HG12	2:N:129:LEU:HD11	2.02	0.41
2:N:217:LEU:HD21	2:N:249:VAL:CG2	2.50	0.41
2:N:236:SER:HB3	2:N:241:PHE:CZ	2.55	0.41
2:N:431:ARG:HD3	2:O:262:ARG:CZ	2.50	0.41
2:N:721:ASN:HA	2:N:724:GLU:CD	2.40	0.41
2:N:894:TYR:CA	2:N:897:LYS:HG2	2.46	0.41
2:O:332:THR:H	2:O:336:MET:HE1	1.83	0.41
2:O:332:THR:HG23	2:O:387:TYR:CD1	2.55	0.41
2:O:817:PHE:O	2:O:821:ILE:HG13	2.20	0.41
2:O:819:LYS:HG2	2:O:870:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:255:ARG:CZ	2:P:258:SER:HB2	2.50	0.41
2:P:270:SER:OG	2:P:273:LEU:HB3	2.20	0.41
2:P:352:VAL:O	2:P:356:LEU:HD13	2.20	0.41
2:P:451:PHE:CD2	2:P:508:VAL:HG23	2.55	0.41
2:P:723:ILE:HD13	2:P:836:LYS:HE3	2.01	0.41
2:P:816:GLU:O	2:P:820:LYS:HG3	2.21	0.41
2:Q:105:LYS:HB2	2:Q:216:ILE:CD1	2.50	0.41
2:Q:173:LYS:O	2:Q:176:TYR:HB2	2.20	0.41
2:Q:235:GLU:CA	2:Q:238:ARG:HD3	2.30	0.41
2:Q:388:THR:HG23	2:Q:392:HIS:CE1	2.55	0.41
2:Q:443:MET:HB3	2:Q:500:MET:CE	2.28	0.41
2:Q:608:LEU:HD12	2:Q:652:GLN:NE2	2.35	0.41
2:Q:752:HIS:HE2	2:Q:811:VAL:C	2.23	0.41
2:Q:761:GLU:HB2	2:Q:918:ASN:OD1	2.20	0.41
2:R:437:GLU:HG3	2:R:440:ARG:HG3	2.02	0.41
2:R:612:ALA:N	2:R:655:CYS:O	2.33	0.41
2:R:893:ASP:HA	2:R:896:THR:OG1	2.20	0.41
2:S:147:ARG:HH12	2:S:148:LYS:HB3	1.85	0.41
2:S:336:MET:CA	2:S:340:ASP:HB2	2.46	0.41
2:S:503:VAL:HG11	2:S:544:ILE:CG2	2.50	0.41
2:S:589:LYS:HA	2:S:589:LYS:HD3	1.77	0.41
2:S:754:THR:O	2:S:757:TYR:OH	2.32	0.41
1:A:193:ALA:HB1	1:L:35:LEU:HD11	2.02	0.41
1:B:178:ASP:OD2	1:B:324:THR:N	2.54	0.41
1:B:275:GLY:O	1:B:278:GLU:HG3	2.19	0.41
1:B:465:GLY:HA2	1:B:494:HIS:O	2.20	0.41
1:B:693:MET:HE3	1:B:741:MET:SD	2.61	0.41
1:B:718:ASN:OD1	1:B:718:ASN:C	2.58	0.41
1:B:791:ARG:O	1:B:794:ARG:HG3	2.20	0.41
1:C:367:GLN:NE2	1:C:368:LYS:HG3	2.35	0.41
1:E:23:VAL:HG12	1:E:24:SER:N	2.35	0.41
1:E:186:GLN:O	1:E:190:GLN:NE2	2.52	0.41
1:E:506:LEU:HD11	1:E:533:ALA:O	2.21	0.41
1:E:568:ARG:HD3	1:E:568:ARG:H	1.84	0.41
1:F:356:ARG:HH22	1:F:498:HIS:CE1	2.38	0.41
1:F:370:LEU:O	1:F:374:LEU:HG	2.20	0.41
1:F:513:ILE:HD12	1:F:534:ILE:HD12	2.02	0.41
1:G:322:THR:O	1:G:326:LEU:HG	2.20	0.41
1:G:587:LEU:O	1:G:591:VAL:HG22	2.20	0.41
1:G:588:ALA:HA	1:G:591:VAL:HG22	2.02	0.41
1:G:757:LEU:HD12	1:G:760:GLU:OE2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:535:GLY:HA3	1:H:727:TRP:CZ2	2.55	0.41
1:I:108:LEU:HA	1:I:111:ILE:HG12	2.03	0.41
1:I:463:ILE:O	1:I:464:ARG:NH2	2.53	0.41
1:I:634:LEU:O	1:I:638:GLU:HG3	2.20	0.41
1:I:649:MET:SD	1:I:653:LEU:HD12	2.60	0.41
1:I:663:ASP:OD1	1:I:664:ASN:N	2.53	0.41
1:J:466:VAL:HG13	1:J:492:ILE:HG21	2.01	0.41
1:J:647:THR:HG23	1:J:648:GLY:N	2.36	0.41
1:K:553:LYS:HZ3	1:K:671:GLU:HB3	1.85	0.41
1:K:613:LEU:N	1:K:639:ARG:HH21	2.18	0.41
1:L:308:GLN:O	1:L:309:ARG:C	2.58	0.41
1:L:649:MET:HA	1:L:652:PRO:HG2	2.01	0.41
1:L:675:VAL:HG23	1:L:679:TYR:CD1	2.56	0.41
2:M:171:GLU:OE2	2:M:173:LYS:HG2	2.20	0.41
2:M:295:GLN:NE2	2:S:428:ASN:HA	2.35	0.41
2:M:332:THR:HG22	2:M:333:GLU:CD	2.40	0.41
2:M:366:MET:HE3	2:M:467:ARG:NE	2.35	0.41
2:M:437:GLU:HG2	2:M:440:ARG:HB2	2.01	0.41
2:M:727:ILE:CG2	2:M:729:PRO:HG3	2.47	0.41
2:M:792:LEU:HB3	2:M:793:TYR:CE2	2.54	0.41
2:M:799:ARG:HD2	2:M:800:GLU:O	2.20	0.41
2:M:917:LEU:HA	2:M:920:SER:CB	2.50	0.41
2:N:218:ILE:HD12	2:N:220:PHE:CE2	2.54	0.41
2:N:342:ILE:HG22	2:N:342:ILE:O	2.21	0.41
2:N:427:SER:CB	2:O:295:GLN:OE1	2.67	0.41
2:N:736:LYS:C	2:N:789:GLU:HG2	2.41	0.41
2:O:117:ARG:CD	2:O:118:HIS:ND1	2.83	0.41
2:O:152:GLN:CG	2:O:206:ARG:NH1	2.82	0.41
2:O:351:ALA:HB2	2:O:387:TYR:CZ	2.55	0.41
2:O:354:GLU:HG3	2:O:413:VAL:HG11	1.97	0.41
2:O:415:ASN:HB2	2:O:418:ARG:CZ	2.50	0.41
2:O:422:TYR:O	2:O:426:LEU:HB2	2.20	0.41
2:O:453:TYR:CB	2:O:482:LEU:HD11	2.50	0.41
2:O:511:PHE:CD1	2:O:515:VAL:HB	2.54	0.41
2:O:574:VAL:HG11	2:O:771:ALA:HB1	2.02	0.41
2:O:611:VAL:HB	2:O:617:MET:O	2.20	0.41
2:O:799:ARG:HD2	2:O:800:GLU:O	2.20	0.41
2:O:856:PHE:HB3	2:O:861:ILE:HD11	2.03	0.41
2:P:198:GLU:C	2:P:201:GLU:HG3	2.40	0.41
2:P:273:LEU:HD12	2:P:277:GLU:HB2	2.01	0.41
2:P:383:LEU:HD13	2:P:383:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:458:ARG:O	2:P:460:PHE:CD1	2.73	0.41
2:P:495:SER:CB	2:P:634:ALA:CB	2.98	0.41
2:P:613:SER:CA	2:P:657:VAL:HG23	2.33	0.41
2:P:625:LEU:HD11	2:P:850:ILE:HG21	2.01	0.41
2:P:824:ILE:HG22	2:P:828:LEU:HD13	2.02	0.41
2:Q:438:GLN:NE2	2:R:309:GLN:HE21	2.15	0.41
2:Q:540:SER:HA	2:Q:543:ARG:HH11	1.85	0.41
2:Q:593:ILE:C	2:Q:601:LYS:HZ2	2.23	0.41
2:Q:757:TYR:HB2	2:Q:760:ALA:HB2	2.01	0.41
2:Q:838:THR:O	2:Q:839:HIS:HB2	2.21	0.41
2:Q:894:TYR:CD1	2:Q:897:LYS:HE3	2.56	0.41
2:R:130:ASN:HA	2:R:153:TRP:HZ2	1.84	0.41
2:R:312:THR:HG23	2:R:315:GLN:CD	2.41	0.41
2:R:791:SER:OG	2:R:802:ILE:N	2.51	0.41
2:R:831:ASP:HB3	2:R:833:LYS:CD	2.50	0.41
2:S:120:PRO:HB3	2:S:167:LEU:HD11	2.02	0.41
2:S:539:MET:CG	2:S:541:VAL:HB	2.51	0.41
1:B:586:ARG:HH22	1:C:648:GLY:HA3	1.86	0.41
1:C:14:ARG:HH21	1:C:28:ARG:NE	2.19	0.41
1:C:234:MET:O	1:C:235:GLN:OE1	2.37	0.41
1:C:598:VAL:O	1:C:598:VAL:HG13	2.20	0.41
1:E:143:ILE:O	1:E:147:CYS:N	2.48	0.41
1:E:556:ARG:NH2	1:E:673:VAL:HG11	2.35	0.41
1:E:702:ALA:O	1:E:703:ILE:HD13	2.20	0.41
1:F:508:SER:O	1:F:511:ARG:HG2	2.21	0.41
1:F:560:LEU:HD13	1:F:584:ALA:N	2.36	0.41
1:F:598:VAL:HG22	1:F:603:LEU:HD12	2.03	0.41
1:F:609:MET:O	1:F:612:LEU:HG	2.21	0.41
1:G:377:TYR:O	1:G:381:LEU:HG	2.20	0.41
1:I:478:GLU:HA	1:I:481:CYS:SG	2.60	0.41
1:I:518:ARG:NH1	1:I:519:PHE:CE1	2.88	0.41
1:J:44:LEU:HD12	1:J:45:PRO:HD3	2.02	0.41
1:J:230:TRP:CE3	1:J:245:ILE:HG21	2.55	0.41
1:J:722:HIS:ND1	1:J:724:ILE:HG22	2.36	0.41
1:K:287:GLY:O	1:K:291:LEU:HG	2.20	0.41
1:K:481:CYS:HB3	1:K:485:ARG:NH2	2.36	0.41
2:M:103:ASN:H	2:M:214:LYS:CE	2.33	0.41
2:M:451:PHE:CE2	2:M:536:VAL:CG2	3.01	0.41
2:M:732:LEU:HG	2:M:736:LYS:HD3	2.01	0.41
2:N:559:ALA:HB2	2:N:619:PHE:CE1	2.54	0.41
2:N:584:MET:SD	2:N:927:TYR:HD2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:846:ILE:HD11	2:N:881:ILE:HG22	2.01	0.41
2:N:850:ILE:C	2:N:853:PRO:HD2	2.39	0.41
2:O:150:LYS:O	2:O:154:GLN:HG3	2.20	0.41
2:O:227:PHE:CZ	2:P:268:ASN:HB3	2.56	0.41
2:O:366:MET:CE	2:O:367:TYR:CE2	3.03	0.41
2:O:415:ASN:CA	2:O:418:ARG:HD3	2.45	0.41
2:O:497:PHE:CE1	2:O:729:PRO:HB3	2.55	0.41
2:O:571:LEU:C	2:O:745:LEU:HB3	2.39	0.41
2:P:35:LYS:O	2:P:38:ARG:HB3	2.20	0.41
2:P:255:ARG:NH2	2:P:258:SER:CB	2.84	0.41
2:P:353:ARG:HA	2:P:358:LEU:HB2	2.02	0.41
2:P:390:LYS:HD3	2:P:416:LEU:CD2	2.51	0.41
2:P:427:SER:CB	2:Q:295:GLN:OE1	2.68	0.41
2:P:470:SER:O	2:P:476:ARG:HG3	2.20	0.41
2:P:539:MET:O	2:P:549:HIS:HE1	2.02	0.41
2:Q:426:LEU:CD1	2:R:254:LEU:HD22	2.50	0.41
2:Q:550:TRP:HA	2:Q:553:ARG:CZ	2.50	0.41
2:Q:611:VAL:HG12	2:Q:613:SER:N	2.36	0.41
2:Q:612:ALA:N	2:Q:655:CYS:O	2.36	0.41
2:Q:740:ARG:HH22	2:Q:807:ARG:HB3	1.84	0.41
2:R:118:HIS:CE1	2:S:169:ASP:O	2.74	0.41
2:R:180:ALA:CB	2:R:194:GLN:HG2	2.50	0.41
2:R:532:ILE:HG13	2:R:533:SER:N	2.36	0.41
2:R:726:GLY:O	2:R:728:ARG:NH1	2.49	0.41
2:S:223:ILE:HD12	2:S:227:PHE:HA	2.03	0.41
2:S:379:LEU:O	2:S:382:VAL:HG12	2.21	0.41
2:S:380:MET:HG3	2:S:381:GLN:N	2.35	0.41
2:S:710:ILE:O	2:S:714:GLU:HG3	2.20	0.41
2:S:771:ALA:N	2:S:922:ILE:HD11	2.36	0.41
1:A:23:VAL:HG22	1:A:286:GLU:OE1	2.19	0.41
1:A:346:VAL:HG12	1:A:412:LYS:HD2	2.02	0.41
1:A:556:ARG:NH1	1:A:675:VAL:HG23	2.34	0.41
1:B:693:MET:HB3	1:B:741:MET:HE1	2.02	0.41
1:B:716:TYR:CD1	1:B:721:GLU:HG2	2.56	0.41
1:C:58:GLN:O	1:C:61:LYS:HG3	2.20	0.41
1:C:128:PHE:HB3	1:C:267:GLU:OE1	2.21	0.41
1:C:423:ILE:HG23	1:C:470:ALA:HB2	2.01	0.41
1:C:727:TRP:CD1	1:C:741:MET:HG3	2.56	0.41
1:D:170:LYS:HG2	1:D:171:HIS:CE1	2.56	0.41
1:D:209:GLN:NE2	1:D:213:ASN:OD1	2.54	0.41
1:E:566:GLU:CD	1:E:688:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:91:ASP:HB3	1:F:94:MET:HB2	2.03	0.41
1:F:142:TYR:O	1:F:146:GLU:OE1	2.38	0.41
1:G:351:ARG:O	1:G:415:GLU:OE1	2.39	0.41
1:G:402:ASP:HA	1:G:405:GLU:OE1	2.20	0.41
1:G:719:VAL:HG11	1:G:763:HIS:NE2	2.35	0.41
1:H:333:SER:O	1:H:336:SER:OG	2.32	0.41
1:H:668:GLN:O	1:H:671:GLU:HB2	2.20	0.41
1:I:95:PHE:CE1	1:I:99:GLN:NE2	2.89	0.41
1:I:117:PHE:HA	1:I:281:ARG:HH12	1.85	0.41
1:I:203:ILE:HG22	1:I:207:ARG:NH2	2.35	0.41
1:L:401:LEU:HD13	1:L:458:ARG:HB2	2.02	0.41
1:L:633:TRP:HB3	1:L:637:TYR:CE2	2.55	0.41
2:M:103:ASN:O	2:M:214:LYS:N	2.38	0.41
2:M:120:PRO:HG2	2:M:123:VAL:CB	2.50	0.41
2:M:239:LYS:HD3	2:S:114:LYS:NZ	2.32	0.41
2:M:466:LEU:O	2:M:479:SER:HB2	2.21	0.41
2:M:732:LEU:HG	2:M:736:LYS:HZ3	1.85	0.41
2:M:909:ILE:HD11	2:M:911:GLN:CG	2.50	0.41
2:N:40:GLN:HA	2:N:43:GLU:CG	2.50	0.41
2:N:126:THR:HA	2:N:129:LEU:HD12	2.02	0.41
2:N:147:ARG:NE	2:N:148:LYS:H	2.19	0.41
2:N:413:VAL:HB	2:N:414:PRO:HD3	2.02	0.41
2:N:599:LEU:HD21	2:N:849:PRO:C	2.41	0.41
2:N:727:ILE:HG22	2:N:729:PRO:CD	2.50	0.41
2:O:181:LEU:HD12	2:O:181:LEU:C	2.41	0.41
2:O:288:TYR:HD2	2:O:289:MET:HE3	1.85	0.41
2:O:343:ASP:OD1	2:O:345:ARG:N	2.54	0.41
2:O:381:GLN:O	2:O:385:ASP:OD1	2.39	0.41
2:O:530:GLN:O	2:O:534:GLU:OE1	2.38	0.41
2:O:571:LEU:HG	2:O:745:LEU:HD13	2.01	0.41
2:O:573:MET:HB3	2:O:621:SER:HB3	2.03	0.41
2:O:751:GLN:C	2:O:755:ARG:HH21	2.23	0.41
2:O:773:LYS:HG3	2:O:773:LYS:H	1.61	0.41
2:O:779:VAL:O	2:O:783:LEU:HG	2.20	0.41
2:O:787:LEU:HB2	2:O:842:PHE:CE1	2.55	0.41
2:O:833:LYS:HZ1	2:O:838:THR:C	2.21	0.41
2:O:871:GLU:HG3	2:O:892:TRP:CH2	2.56	0.41
2:P:303:PRO:CG	2:P:306:LYS:HD3	2.50	0.41
2:P:367:TYR:CD1	2:P:468:PRO:HD3	2.55	0.41
2:P:377:ARG:HA	2:P:380:MET:HE3	2.01	0.41
2:P:381:GLN:NE2	2:P:385:ASP:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:419:ASN:O	2:P:422:TYR:HB3	2.20	0.41
2:P:509:SER:HB2	2:P:738:TRP:HE1	1.84	0.41
2:Q:467:ARG:HA	2:Q:468:PRO:HD3	1.94	0.41
2:Q:792:LEU:CD1	2:Q:800:GLU:HG3	2.46	0.41
2:R:412:SER:HB3	2:R:415:ASN:OD1	2.20	0.41
2:R:431:ARG:HE	2:S:291:GLU:HG2	1.85	0.41
2:R:459:ASP:O	2:R:460:PHE:HB2	2.19	0.41
2:R:596:GLU:HG3	2:R:604:MET:HE1	2.02	0.41
2:S:120:PRO:HG2	2:S:123:VAL:CB	2.50	0.41
2:S:271:LYS:O	2:S:275:GLU:OE1	2.38	0.41
2:S:333:GLU:HB3	2:S:334:PRO:HD2	2.01	0.41
2:S:451:PHE:CE1	2:S:536:VAL:HG21	2.55	0.41
2:S:713:VAL:HG12	2:S:717:LEU:CD1	2.50	0.41
2:S:728:ARG:N	2:S:729:PRO:HD3	2.36	0.41
1:A:186:GLN:O	1:A:189:LYS:HB2	2.21	0.41
1:B:105:VAL:HG12	1:B:106:SER:N	2.36	0.41
1:C:30:GLU:HB2	1:C:53:TRP:CZ2	2.55	0.41
1:C:222:ALA:HB2	1:C:276:LEU:HG	2.03	0.41
1:C:651:ARG:HB3	1:C:652:PRO:HD3	2.03	0.41
1:D:31:SER:O	1:D:35:LEU:HD13	2.21	0.41
1:D:288:LEU:HA	1:D:291:LEU:HD12	2.02	0.41
1:D:471:ASN:HB3	1:D:474:HIS:CD2	2.54	0.41
1:D:572:GLU:HG2	1:D:573:LEU:HG	2.02	0.41
1:E:30:GLU:HB3	1:E:53:TRP:CE2	2.55	0.41
1:E:305:LEU:HD12	1:E:308:GLN:HE21	1.86	0.41
1:E:453:LEU:HD12	1:E:459:LEU:HB2	2.02	0.41
1:E:725:PHE:CE1	1:E:772:PHE:CE2	3.08	0.41
1:F:615:GLU:OE1	1:F:615:GLU:N	2.50	0.41
1:G:354:GLU:HG3	1:G:417:ALA:HB3	2.03	0.41
1:G:569:SER:HB3	1:H:575:ARG:HB3	2.03	0.41
1:G:639:ARG:O	1:G:642:GLU:OE1	2.39	0.41
1:G:745:LEU:HG	1:G:786:VAL:HG12	2.03	0.41
1:H:517:LEU:HD11	1:H:696:MET:HE2	2.02	0.41
1:I:59:GLN:O	1:I:62:GLN:HG2	2.19	0.41
1:I:424:LYS:HG2	1:I:470:ALA:HB3	2.01	0.41
1:I:441:ASP:O	1:I:445:GLN:HG2	2.21	0.41
1:I:481:CYS:HB2	1:I:482:PRO:HD3	2.03	0.41
1:J:7:ASN:OD1	1:J:300:ASN:HB3	2.21	0.41
1:J:535:GLY:O	1:J:726:ARG:NH1	2.54	0.41
1:J:607:PHE:HA	1:J:610:ARG:NH1	2.36	0.41
1:J:703:ILE:HD12	1:J:741:MET:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:176:LEU:HD13	1:K:205:LYS:HB2	2.02	0.41
1:K:494:HIS:HB3	1:K:795:PHE:CE2	2.56	0.41
1:L:15:LEU:CD2	1:L:293:TRP:CD1	3.04	0.41
1:L:258:TRP:CE3	1:L:263:LYS:HB2	2.56	0.41
1:L:527:ARG:HG2	1:L:795:PHE:HZ	1.86	0.41
2:M:385:ASP:HB2	2:N:304:VAL:CG2	2.49	0.41
2:M:437:GLU:HG2	2:M:437:GLU:O	2.21	0.41
2:M:492:GLY:HA2	2:M:724:GLU:O	2.21	0.41
2:N:540:SER:OG	2:N:543:ARG:CZ	2.69	0.41
2:N:575:GLN:HG3	2:N:923:VAL:HG12	2.03	0.41
2:O:255:ARG:HD2	2:O:256:LEU:CA	2.49	0.41
2:O:539:MET:HG3	2:O:550:TRP:NE1	2.30	0.41
2:O:838:THR:O	2:O:839:HIS:HB2	2.21	0.41
2:P:37:LEU:HD21	2:P:308:ILE:CD1	2.50	0.41
2:P:136:LYS:CE	2:P:211:LEU:HD13	2.48	0.41
2:P:159:GLN:HA	2:P:162:ARG:CZ	2.50	0.41
2:P:727:ILE:HG12	2:P:729:PRO:CG	2.50	0.41
2:P:828:LEU:HG	2:P:833:LYS:CB	2.50	0.41
2:P:861:ILE:HG23	2:P:871:GLU:OE1	2.21	0.41
2:Q:107:LEU:CD2	2:Q:128:ARG:HH21	2.25	0.41
2:Q:208:CYS:CB	2:Q:245:LYS:HE2	2.51	0.41
2:Q:224:ASP:O	2:R:293:LEU:HD12	2.20	0.41
2:Q:417:LEU:O	2:Q:421:LEU:HD13	2.21	0.41
2:Q:569:VAL:HA	2:Q:574:VAL:HA	2.02	0.41
2:Q:730:SER:O	2:Q:734:ILE:HG13	2.21	0.41
2:Q:822:LYS:O	2:Q:823:ILE:C	2.59	0.41
2:R:129:LEU:HA	2:R:132:MET:CG	2.50	0.41
2:R:173:LYS:CG	2:R:174:PRO:HD2	2.50	0.41
2:R:261:ILE:HD12	2:R:294:GLU:HG2	2.00	0.41
2:S:173:LYS:H	2:S:176:TYR:HE1	1.68	0.41
2:S:178:SER:O	2:S:181:LEU:HB2	2.20	0.41
2:S:288:TYR:HD2	2:S:289:MET:CE	2.34	0.41
2:S:340:ASP:O	2:S:342:ILE:HG13	2.20	0.41
2:S:591:PHE:CZ	2:S:604:MET:HG2	2.56	0.41
2:S:741:PHE:CE1	2:S:782:PHE:HB2	2.56	0.41
2:S:761:GLU:OE1	2:S:762:HIS:ND1	2.54	0.41
1:A:4:PHE:CZ	1:A:37:GLN:HA	2.55	0.41
1:A:183:TRP:CE3	1:A:188:MET:HE1	2.56	0.41
1:B:44:LEU:HA	1:B:45:PRO:HD3	1.96	0.41
1:B:287:GLY:O	1:B:291:LEU:HD13	2.19	0.41
1:C:73:LEU:HB3	1:C:113:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:507:ILE:HD11	1:C:680:LEU:HD12	2.01	0.41
1:D:142:TYR:O	1:D:146:GLU:OE1	2.38	0.41
1:D:503:PHE:CD2	1:D:505:HIS:C	2.94	0.41
1:E:161:ALA:HB1	1:E:303:LEU:HD22	2.03	0.41
1:E:199:LEU:HD12	1:E:207:ARG:CZ	2.51	0.41
1:E:199:LEU:HD12	1:E:207:ARG:NH1	2.35	0.41
1:E:210:ILE:HA	1:E:240:LEU:HB3	2.02	0.41
1:E:228:PRO:O	1:E:231:ILE:HG22	2.20	0.41
1:E:305:LEU:O	1:E:308:GLN:HG3	2.20	0.41
1:E:497:TYR:HD2	1:E:499:VAL:HG13	1.85	0.41
1:E:752:ILE:CG2	1:E:755:ALA:HB2	2.50	0.41
1:E:791:ARG:NH1	1:F:141:ASP:OD1	2.53	0.41
1:F:261:ASP:O	1:F:263:LYS:NZ	2.50	0.41
1:F:360:LYS:HZ3	1:F:365:LYS:HD2	1.85	0.41
1:F:456:GLU:OE1	1:F:458:ARG:HD3	2.19	0.41
1:F:511:ARG:NH2	1:F:558:LEU:HB3	2.35	0.41
1:F:634:LEU:O	1:F:638:GLU:HG3	2.21	0.41
1:G:446:ALA:HB1	1:G:450:MET:HE1	2.03	0.41
1:G:739:VAL:HG12	1:G:740:PRO:HD2	2.03	0.41
1:H:218:LEU:HB2	1:H:272:TRP:HZ2	1.86	0.41
1:H:352:TYR:CE2	1:H:794:ARG:HG2	2.55	0.41
1:H:419:VAL:HG23	1:H:466:VAL:HA	2.02	0.41
1:H:521:PRO:HA	1:H:523:ARG:HH22	1.86	0.41
1:H:705:CYS:SG	1:H:724:ILE:HG22	2.60	0.41
1:I:741:MET:HB2	1:I:743:ILE:HD11	2.02	0.41
1:I:764:LEU:HA	1:I:767:VAL:HG22	2.02	0.41
1:I:779:ALA:HA	1:I:782:LYS:HE2	2.03	0.41
1:J:173:GLU:HG2	1:J:174:ALA:N	2.35	0.41
1:J:785:GLU:HA	1:J:788:GLU:CD	2.41	0.41
1:K:92:LEU:N	1:K:93:PRO:HD2	2.35	0.41
1:L:397:ILE:HA	1:L:400:VAL:HG22	2.01	0.41
2:M:459:ASP:OD2	2:M:463:GLY:N	2.54	0.41
2:M:790:GLU:CD	2:M:839:HIS:HA	2.41	0.41
2:N:72:PHE:CZ	2:N:306:LYS:HG2	2.56	0.41
2:N:103:ASN:CG	2:N:213:CYS:HA	2.41	0.41
2:N:162:ARG:O	2:N:165:HIS:CE1	2.74	0.41
2:N:235:GLU:HA	2:N:239:LYS:NZ	2.27	0.41
2:N:303:PRO:HB2	2:N:306:LYS:HZ3	1.85	0.41
2:N:540:SER:O	2:N:544:ILE:N	2.53	0.41
2:N:603:ALA:CA	2:N:850:ILE:HD12	2.47	0.41
2:O:41:LEU:HD23	2:O:45:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:389:LYS:HZ3	2:O:419:ASN:HB3	1.86	0.41
2:O:412:SER:HG	2:O:414:PRO:HD2	1.86	0.41
2:O:530:GLN:HG3	2:O:534:GLU:OE2	2.21	0.41
2:O:592:ASN:HD22	2:O:595:THR:HG23	1.85	0.41
2:O:721:ASN:OD1	2:O:722:GLU:N	2.54	0.41
2:O:736:LYS:HA	2:O:736:LYS:HD3	1.74	0.41
2:P:164:LEU:HD13	2:Q:177:PHE:CG	2.55	0.41
2:P:208:CYS:SG	2:P:216:ILE:CD1	3.09	0.41
2:P:221:ASP:OD1	2:P:222:ASP:N	2.47	0.41
2:P:265:GLN:HE21	2:P:293:LEU:HB2	1.86	0.41
2:P:584:MET:HE3	2:P:921:THR:OG1	2.21	0.41
2:P:596:GLU:HG3	2:P:597:ASN:H	1.85	0.41
2:P:872:THR:O	2:P:876:LYS:CD	2.68	0.41
2:Q:156:HIS:HB3	2:Q:203:LEU:HD21	2.02	0.41
2:Q:313:MET:HG2	2:Q:314:LEU:N	2.36	0.41
2:Q:348:ILE:O	2:Q:352:VAL:HG13	2.20	0.41
2:Q:446:LEU:HD21	2:Q:486:VAL:HG12	2.02	0.41
2:Q:464:PHE:O	2:Q:466:LEU:HG	2.21	0.41
2:Q:536:VAL:HG13	2:Q:543:ARG:HH12	1.84	0.41
2:Q:628:ALA:CB	2:Q:649:VAL:CG2	2.99	0.41
2:Q:646:PHE:CE2	2:Q:650:ILE:HD13	2.55	0.41
2:R:238:ARG:HG3	2:R:238:ARG:HH11	1.84	0.41
2:R:434:LEU:HD22	2:R:452:THR:OG1	2.20	0.41
2:R:458:ARG:O	2:R:460:PHE:CD1	2.74	0.41
2:R:549:HIS:O	2:R:553:ARG:HG2	2.21	0.41
2:R:636:ARG:HD2	2:R:638:GLU:CB	2.49	0.41
2:R:768:GLN:HG3	2:R:931:THR:CG2	2.49	0.41
2:S:217:LEU:CA	2:S:247:VAL:HG13	2.47	0.41
2:S:336:MET:CB	2:S:340:ASP:HB2	2.51	0.41
2:S:386:PHE:HE2	2:S:387:TYR:CE1	2.38	0.41
2:S:493:SER:HB2	2:S:496:LYS:HB2	2.02	0.41
2:S:725:ILE:H	2:S:725:ILE:HG13	1.66	0.41
1:A:659:TRP:CE2	1:A:669:ARG:CZ	3.04	0.41
1:B:153:GLN:OE1	1:B:353:LEU:HD11	2.21	0.41
1:B:730:LEU:HB2	1:B:733:GLU:OE2	2.20	0.41
1:C:168:ALA:O	1:C:172:PRO:N	2.54	0.41
1:D:99:GLN:OE1	1:D:763:HIS:CE1	2.73	0.41
1:D:424:LYS:HD2	1:D:471:ASN:O	2.20	0.41
1:D:424:LYS:NZ	1:D:497:TYR:OH	2.53	0.41
1:E:598:VAL:O	1:E:598:VAL:HG13	2.20	0.41
1:E:730:LEU:HB2	1:E:733:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:226:GLU:O	1:G:227:LEU:C	2.59	0.41
1:G:401:LEU:O	1:G:404:LEU:N	2.54	0.41
1:G:446:ALA:O	1:G:450:MET:SD	2.79	0.41
1:G:499:VAL:O	1:G:531:CYS:N	2.47	0.41
1:G:500:GLY:O	1:G:532:THR:HB	2.20	0.41
1:G:725:PHE:CE1	1:G:767:VAL:HG11	2.55	0.41
1:G:741:MET:HB2	1:G:743:ILE:HD11	2.01	0.41
1:H:173:GLU:HA	1:H:205:LYS:NZ	2.35	0.41
1:H:792:ILE:HG22	1:H:793:TYR:CD2	2.56	0.41
1:I:162:GLU:HG2	1:I:163:GLU:N	2.36	0.41
1:I:185:SER:HB3	1:I:188:MET:HE2	2.03	0.41
1:I:554:GLU:HG3	1:I:555:THR:N	2.35	0.41
1:J:84:GLU:O	1:J:86:GLY:N	2.54	0.41
1:J:173:GLU:OE1	1:J:173:GLU:N	2.37	0.41
1:K:302:TYR:O	1:K:306:LEU:HG	2.21	0.41
1:K:356:ARG:NH2	1:K:704:GLU:OE1	2.53	0.41
1:K:436:ALA:O	1:K:440:LYS:HG2	2.21	0.41
1:L:102:MET:SD	1:L:753:PHE:HB2	2.61	0.41
2:M:117:ARG:CG	2:M:118:HIS:N	2.82	0.41
2:M:120:PRO:O	2:M:124:THR:HG23	2.20	0.41
2:M:555:CYS:O	2:M:558:VAL:CG1	2.69	0.41
2:M:596:GLU:OE2	2:M:916:SER:HB2	2.20	0.41
2:M:656:ILE:HD11	2:N:743:PHE:HZ	1.81	0.41
2:M:658:PRO:HB2	2:M:660:TRP:CH2	2.56	0.41
2:N:40:GLN:C	2:N:43:GLU:HG2	2.39	0.41
2:N:83:THR:HA	2:N:86:ILE:CD1	2.51	0.41
2:N:314:LEU:HA	2:N:317:VAL:HG22	2.03	0.41
2:N:329:LYS:N	2:N:344:VAL:HG13	2.36	0.41
2:N:330:VAL:O	2:N:342:ILE:N	2.54	0.41
2:O:371:LEU:CA	2:O:374:GLN:HE21	2.18	0.41
2:O:539:MET:CG	2:O:541:VAL:HG13	2.51	0.41
2:O:632:ILE:HG22	2:O:632:ILE:O	2.21	0.41
2:O:756:LEU:HD23	2:O:769:SER:C	2.41	0.41
2:P:120:PRO:CG	2:P:123:VAL:CG2	2.90	0.41
2:P:241:PHE:CA	2:P:246:LEU:HD21	2.41	0.41
2:P:316:LEU:HD12	2:P:316:LEU:O	2.20	0.41
2:P:611:VAL:HG21	2:P:619:PHE:HE1	1.85	0.41
2:Q:741:PHE:HE1	2:Q:782:PHE:CB	2.34	0.41
2:R:45:ILE:HD12	2:R:45:ILE:H	1.85	0.41
2:R:576:LEU:HD23	2:R:591:PHE:HB3	2.01	0.41
2:R:758:ARG:HG2	2:R:927:TYR:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:831:ASP:HB3	2:R:833:LYS:CE	2.50	0.41
2:S:73:PHE:HZ	2:S:252:GLY:C	2.24	0.41
2:S:82:LYS:HD3	2:S:82:LYS:H	1.84	0.41
2:S:227:PHE:CD2	2:S:260:LEU:CD2	3.02	0.41
2:S:288:TYR:HD2	2:S:289:MET:HE3	1.86	0.41
2:S:515:VAL:HG12	2:S:515:VAL:O	2.21	0.41
2:S:629:ILE:CD1	2:S:850:ILE:HB	2.51	0.41
2:S:716:TRP:CB	2:S:849:PRO:HD3	2.50	0.41
1:A:81:ILE:O	1:A:82:LYS:HD3	2.21	0.41
1:A:98:TRP:CH2	1:A:102:MET:HE3	2.56	0.41
1:A:105:VAL:HG12	1:A:106:SER:N	2.36	0.41
1:A:278:GLU:OE2	1:A:279:LYS:NZ	2.34	0.41
1:A:401:LEU:O	1:A:404:LEU:N	2.54	0.41
1:A:511:ARG:NH1	1:A:558:LEU:HD13	2.35	0.41
1:A:516:ALA:HB1	1:A:520:LEU:HD12	2.03	0.41
1:B:66:LYS:HE3	1:B:67:LEU:HB3	2.01	0.41
1:B:69:PRO:HD2	1:B:289:GLU:CD	2.41	0.41
1:B:192:CYS:HB3	1:B:199:LEU:HD23	2.03	0.41
1:B:226:GLU:O	1:B:227:LEU:C	2.59	0.41
1:B:424:LYS:NZ	1:B:469:ALA:O	2.50	0.41
1:B:443:LYS:HG3	1:B:633:TRP:CZ2	2.55	0.41
1:C:51:SER:O	1:C:54:SER:OG	2.38	0.41
1:C:95:PHE:CD1	1:C:134:PRO:CG	3.04	0.41
1:C:178:ASP:HA	1:C:181:LYS:HE2	2.03	0.41
1:C:269:GLU:O	1:C:273:LEU:HG	2.20	0.41
1:C:511:ARG:NH2	1:C:558:LEU:HD13	2.36	0.41
1:C:542:LYS:CG	1:C:542:LYS:O	2.68	0.41
1:C:671:GLU:OE2	1:D:58:GLN:CG	2.69	0.41
1:C:706:PRO:HB2	1:C:748:ASP:O	2.21	0.41
1:D:20:LEU:HD11	1:D:234:MET:CE	2.51	0.41
1:D:95:PHE:O	1:D:99:GLN:CD	2.59	0.41
1:D:160:SER:OG	1:D:162:GLU:OE2	2.38	0.41
1:D:266:GLN:NE2	1:D:267:GLU:OE1	2.53	0.41
1:D:353:LEU:HB2	1:D:414:VAL:HG11	2.01	0.41
1:D:424:LYS:HB2	1:D:475:ALA:HB3	2.03	0.41
1:D:504:PRO:HB2	1:D:551:MET:HG3	2.02	0.41
1:D:634:LEU:O	1:D:637:TYR:HB2	2.21	0.41
1:D:649:MET:HB3	1:D:653:LEU:CD1	2.50	0.41
1:D:651:ARG:HA	1:D:654:LYS:HG2	2.02	0.41
1:D:716:TYR:OH	1:D:723:HIS:HD2	2.03	0.41
1:D:728:MET:HE3	1:D:730:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:46:ASP:OD1	1:E:50:LYS:NZ	2.54	0.41
1:E:63:ARG:HA	1:E:63:ARG:NE	2.36	0.41
1:E:85:LYS:CG	1:E:86:GLY:N	2.82	0.41
1:E:91:ASP:OD1	1:E:92:LEU:N	2.54	0.41
1:E:165:TRP:NE1	1:E:299:GLN:OE1	2.54	0.41
1:E:217:ILE:HG13	1:E:218:LEU:CD1	2.49	0.41
1:E:305:LEU:HD12	1:E:308:GLN:NE2	2.36	0.41
1:E:377:TYR:HH	1:E:415:GLU:HA	1.85	0.41
1:E:431:GLU:OE2	1:E:434:PRO:HA	2.21	0.41
1:F:23:VAL:HG12	1:F:24:SER:N	2.35	0.41
1:F:55:TYR:CZ	1:G:550:SER:HB2	2.55	0.41
1:F:105:VAL:HG12	1:F:106:SER:N	2.36	0.41
1:F:599:SER:HG	1:F:602:THR:HG23	1.85	0.41
1:G:90:ILE:HD13	1:G:98:TRP:CE3	2.56	0.41
1:G:130:TRP:CE2	1:G:340:HIS:CE1	3.09	0.41
1:G:215:ARG:HD3	1:G:258:TRP:CH2	2.56	0.41
1:G:374:LEU:CD1	1:G:397:ILE:HG23	2.51	0.41
1:G:424:LYS:HD2	1:G:471:ASN:O	2.21	0.41
1:G:557:LEU:O	1:G:561:VAL:HG23	2.21	0.41
1:G:601:THR:O	1:G:604:ASP:N	2.54	0.41
1:G:602:THR:HA	1:G:605:GLN:OE1	2.21	0.41
1:G:603:LEU:O	1:G:607:PHE:HD2	2.04	0.41
1:G:641:ARG:HA	1:G:644:VAL:HG22	2.03	0.41
1:G:670:ALA:O	1:G:672:TYR:CE2	2.74	0.41
1:H:360:LYS:H	1:H:366:MET:CE	2.33	0.41
1:I:44:LEU:HD23	1:I:49:ALA:HB2	2.01	0.41
1:I:136:HIS:HB3	1:I:139:VAL:CG2	2.51	0.41
1:I:330:THR:HG21	1:I:332:LYS:HZ1	1.86	0.41
1:I:439:PHE:C	1:I:443:LYS:HZ3	2.25	0.41
1:I:650:LYS:CD	1:I:654:LYS:HZ1	2.34	0.41
1:I:693:MET:CG	1:I:741:MET:SD	3.09	0.41
1:I:735:ILE:HG22	1:I:736:GLU:N	2.36	0.41
1:J:435:HIS:CE1	1:J:475:ALA:HA	2.56	0.41
1:J:511:ARG:HD3	1:J:558:LEU:O	2.20	0.41
1:J:612:LEU:HD21	1:J:656:TYR:CE2	2.56	0.41
1:K:90:ILE:HG22	1:K:134:PRO:N	2.36	0.41
1:K:94:MET:HA	1:K:97:GLU:OE2	2.21	0.41
1:K:113:CYS:HA	1:K:277:LEU:HD13	2.01	0.41
1:K:336:SER:O	1:K:340:HIS:ND1	2.54	0.41
1:K:565:ARG:CZ	1:K:566:GLU:OE2	2.69	0.41
1:L:165:TRP:HZ3	1:L:302:TYR:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:537:THR:OG1	1:L:540:ILE:HG22	2.21	0.41
1:L:756:ASP:OD1	1:L:758:LYS:N	2.47	0.41
2:M:42:VAL:HA	2:M:45:ILE:HG12	2.02	0.41
2:M:135:ASP:CB	2:M:138:LYS:HZ3	2.34	0.41
2:M:159:GLN:CA	2:M:162:ARG:HE	2.30	0.41
2:M:167:LEU:HD11	2:M:196:LEU:HD23	2.03	0.41
2:M:272:THR:O	2:M:275:GLU:HB2	2.21	0.41
2:M:282:ARG:CA	2:M:285:GLU:OE1	2.60	0.41
2:M:320:LYS:HE3	2:M:365:ASP:CG	2.41	0.41
2:M:417:LEU:HD23	2:M:421:LEU:CD1	2.50	0.41
2:M:429:ILE:O	2:M:432:ALA:HB3	2.21	0.41
2:M:494:LEU:HD21	2:M:498:LEU:HD11	2.02	0.41
2:M:787:LEU:HD22	2:M:821:ILE:HG22	2.03	0.41
2:N:86:ILE:HG21	2:N:251:THR:HG21	1.97	0.41
2:N:173:LYS:HB3	2:N:176:TYR:HD2	1.84	0.41
2:N:290:VAL:HG13	2:N:291:GLU:N	2.35	0.41
2:N:329:LYS:H	2:N:344:VAL:HG13	1.86	0.41
2:N:370:GLU:HG2	2:N:476:ARG:HD2	2.03	0.41
2:N:468:PRO:C	2:N:476:ARG:HG3	2.42	0.41
2:N:554:CYS:O	2:N:558:VAL:HG23	2.20	0.41
2:N:571:LEU:HD23	2:N:745:LEU:CB	2.50	0.41
2:N:576:LEU:HD13	2:N:591:PHE:CD2	2.56	0.41
2:N:737:VAL:N	2:N:789:GLU:HG2	2.36	0.41
2:N:833:LYS:HZ3	2:N:834:THR:C	2.24	0.41
2:O:69:ARG:NE	2:O:69:ARG:HA	2.35	0.41
2:O:83:THR:HA	2:O:86:ILE:CD1	2.51	0.41
2:O:120:PRO:CG	2:O:123:VAL:CG2	2.95	0.41
2:O:178:SER:C	2:O:181:LEU:HG	2.41	0.41
2:O:294:GLU:OE1	2:O:298:LEU:HD23	2.21	0.41
2:O:355:GLY:HA3	2:O:417:LEU:CD2	2.45	0.41
2:O:430:TYR:CD1	2:O:436:TYR:HB2	2.55	0.41
2:O:439:HIS:CD2	2:O:440:ARG:HH11	2.39	0.41
2:O:493:SER:HA	2:O:724:GLU:CD	2.41	0.41
2:O:602:ALA:HB1	2:O:646:PHE:CZ	2.56	0.41
2:O:776:ARG:CZ	2:O:860:GLY:O	2.69	0.41
2:O:833:LYS:HZ3	2:O:834:THR:C	2.24	0.41
2:P:73:PHE:CE1	2:P:257:TYR:CE2	3.08	0.41
2:P:227:PHE:HB2	2:P:256:LEU:CG	2.51	0.41
2:P:231:TRP:NE1	2:P:235:GLU:HG3	2.36	0.41
2:P:266:TYR:CE1	2:P:290:VAL:HG21	2.56	0.41
2:P:382:VAL:HG12	2:P:424:SER:HG	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:451:PHE:O	2:P:455:LYS:HG3	2.21	0.41
2:P:588:TYR:O	2:P:589:LYS:CE	2.66	0.41
2:P:605:ALA:HA	2:P:608:LEU:HD12	2.03	0.41
2:P:654:THR:O	2:Q:743:PHE:HE1	2.03	0.41
2:P:762:HIS:CA	2:P:918:ASN:HD21	2.33	0.41
2:P:856:PHE:HZ	2:P:878:ILE:HD12	1.86	0.41
2:P:862:ASN:HB3	2:P:867:ALA:CB	2.51	0.41
2:Q:42:VAL:HG13	2:Q:93:LEU:HD21	2.02	0.41
2:Q:85:PHE:O	2:Q:89:VAL:HG23	2.21	0.41
2:Q:113:THR:HG23	2:Q:223:ILE:HA	2.00	0.41
2:Q:117:ARG:HD3	2:Q:117:ARG:H	1.86	0.41
2:Q:164:LEU:O	2:Q:164:LEU:HD23	2.21	0.41
2:Q:217:LEU:HG	2:Q:219:THR:HG23	2.02	0.41
2:Q:246:LEU:HD12	2:Q:246:LEU:C	2.40	0.41
2:Q:261:ILE:CG1	2:Q:294:GLU:HG2	2.50	0.41
2:Q:276:GLN:CG	2:Q:277:GLU:N	2.84	0.41
2:Q:300:LYS:HA	2:Q:300:LYS:HD2	1.85	0.41
2:Q:344:VAL:O	2:Q:348:ILE:HG13	2.21	0.41
2:Q:506:GLY:HA2	2:Q:738:TRP:CE2	2.56	0.41
2:Q:632:ILE:HD13	2:Q:645:ALA:HB1	2.02	0.41
2:Q:790:GLU:CD	2:Q:841:LEU:HB2	2.41	0.41
2:R:73:PHE:O	2:R:308:ILE:HD12	2.20	0.41
2:R:261:ILE:HD11	2:R:294:GLU:HG2	1.98	0.41
2:R:437:GLU:CD	2:R:440:ARG:HD3	2.40	0.41
2:R:457:ASP:OD1	2:R:470:SER:HB2	2.21	0.41
2:R:741:PHE:CE2	2:R:745:LEU:HD21	2.55	0.41
2:R:755:ARG:HH12	2:R:812:THR:CB	2.33	0.41
2:R:783:LEU:O	2:R:842:PHE:CE1	2.74	0.41
2:R:810:PRO:HA	2:R:816:GLU:CD	2.41	0.41
2:R:818:GLU:CD	2:R:819:LYS:HD2	2.42	0.41
2:R:839:HIS:N	2:R:840:PRO:CD	2.84	0.41
2:R:858:ILE:HD12	2:R:915:THR:CG2	2.50	0.41
2:S:70:ASN:CG	2:S:247:VAL:HA	2.41	0.41
2:S:147:ARG:CZ	2:S:149:GLN:HE22	2.33	0.41
2:S:197:SER:OG	2:S:198:GLU:OE1	2.38	0.41
2:S:312:THR:H	2:S:315:GLN:CD	2.24	0.41
2:S:329:LYS:HB3	2:S:341:ALA:HB1	2.03	0.41
2:S:413:VAL:HB	2:S:414:PRO:HD3	2.03	0.41
2:S:419:ASN:O	2:S:422:TYR:HB3	2.21	0.41
2:S:506:GLY:CA	2:S:738:TRP:CZ2	3.04	0.41
2:S:529:GLU:O	2:S:532:ILE:CG1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:629:ILE:HD11	2:S:850:ILE:CB	2.50	0.41
2:S:643:THR:OG1	2:S:710:ILE:HD13	2.21	0.41
2:S:890:GLU:HG2	2:S:891:GLU:N	2.36	0.41
1:A:97:GLU:O	1:A:101:LEU:HD13	2.20	0.41
1:A:552:THR:O	1:A:555:THR:OG1	2.32	0.41
1:A:566:GLU:CG	1:A:688:LEU:HD13	2.51	0.41
1:B:98:TRP:HH2	1:B:131:PRO:HB2	1.86	0.41
1:B:416:LEU:HD21	1:B:418:LEU:HD21	2.02	0.41
1:C:547:LEU:HD23	1:D:97:GLU:HG2	2.03	0.41
1:C:554:GLU:HB3	1:C:669:ARG:HG2	2.03	0.41
1:D:150:GLU:HB3	1:D:353:LEU:HD12	2.02	0.41
1:D:717:ARG:HA	1:D:717:ARG:NE	2.35	0.41
1:E:165:TRP:O	1:E:169:LEU:HD13	2.21	0.41
1:E:641:ARG:HA	1:E:644:VAL:HG22	2.03	0.41
1:F:31:SER:O	1:F:35:LEU:HD13	2.21	0.41
1:F:165:TRP:CH2	1:F:169:LEU:HD11	2.56	0.41
1:F:528:LEU:HB3	1:F:531:CYS:SG	2.61	0.41
1:G:44:LEU:HD21	1:G:49:ALA:N	2.34	0.41
1:G:70:VAL:HG23	1:G:277:LEU:CD1	2.51	0.41
1:G:265:SER:O	1:G:269:GLU:OE1	2.37	0.41
1:G:477:PRO:HA	1:G:497:TYR:CE2	2.56	0.41
1:I:90:ILE:HD13	1:I:98:TRP:CD2	2.56	0.41
1:I:199:LEU:O	1:I:200:THR:O	2.39	0.41
1:J:54:SER:O	1:J:57:VAL:HG12	2.21	0.41
1:J:199:LEU:HD11	1:J:207:ARG:NH1	2.35	0.41
1:J:791:ARG:HA	1:J:794:ARG:CD	2.51	0.41
1:K:218:LEU:HB2	1:K:272:TRP:HZ2	1.86	0.41
1:K:367:GLN:HE21	1:K:367:GLN:HB2	1.71	0.41
1:K:514:ASP:HB2	1:K:562:PHE:CZ	2.56	0.41
1:K:592:PHE:O	1:K:593:SER:OG	2.32	0.41
1:K:792:ILE:HA	1:L:141:ASP:OD2	2.21	0.41
1:L:15:LEU:HD21	1:L:290:ARG:HG3	2.02	0.41
1:L:176:LEU:HD23	1:L:204:PHE:CD2	2.56	0.41
1:L:237:PRO:HA	1:L:240:LEU:HD12	2.02	0.41
1:L:526:ASP:O	1:L:701:ILE:HD12	2.21	0.41
1:L:541:TRP:O	1:L:541:TRP:CG	2.74	0.41
1:L:596:GLU:OE1	1:L:596:GLU:N	2.49	0.41
2:M:76:GLY:HA3	2:M:82:LYS:HE3	2.02	0.41
2:M:235:GLU:HB3	2:M:238:ARG:CZ	2.51	0.41
2:M:256:LEU:HD11	2:M:257:TYR:CE2	2.56	0.41
2:M:297:TYR:OH	2:S:224:ASP:O	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:657:VAL:HG12	2:N:658:PRO:O	2.21	0.41
2:N:817:PHE:CD2	2:N:821:ILE:HD11	2.54	0.41
2:O:153:TRP:N	2:O:206:ARG:NH2	2.69	0.41
2:O:273:LEU:CA	2:O:276:GLN:HE21	2.32	0.41
2:O:329:LYS:HZ2	2:O:343:ASP:H	1.69	0.41
2:O:763:GLY:HA3	2:O:773:LYS:HE2	2.02	0.41
2:O:789:GLU:O	2:O:793:TYR:HD2	2.03	0.41
2:O:816:GLU:O	2:O:820:LYS:HG3	2.20	0.41
2:P:147:ARG:HB3	2:P:148:LYS:H	1.61	0.41
2:P:173:LYS:HE3	2:P:174:PRO:HG2	2.02	0.41
2:P:205:LYS:CD	2:P:245:LYS:HD3	2.51	0.41
2:P:383:LEU:HD12	2:P:387:TYR:HE2	1.82	0.41
2:P:453:TYR:OH	2:P:475:LEU:CD2	2.68	0.41
2:Q:239:LYS:C	2:Q:240:PHE:HD2	2.24	0.41
2:Q:444:ASP:O	2:Q:542:GLY:HA2	2.21	0.41
2:Q:453:TYR:CD2	2:Q:466:LEU:CD2	3.04	0.41
2:Q:490:CYS:SG	2:Q:497:PHE:HB2	2.61	0.41
2:Q:649:VAL:HG13	2:Q:650:ILE:HG13	2.01	0.41
2:R:165:HIS:HB2	2:R:169:ASP:OD2	2.21	0.41
2:R:443:MET:HE2	2:R:489:ASN:CB	2.48	0.41
2:R:497:PHE:CE1	2:R:729:PRO:HB3	2.55	0.41
2:R:709:ALA:O	2:R:713:VAL:HG23	2.21	0.41
2:S:819:LYS:HZ2	2:S:820:LYS:HG3	1.86	0.41
1:A:30:GLU:HG2	1:A:34:PHE:CE2	2.56	0.40
1:A:346:VAL:HG11	1:B:408:GLU:OE2	2.21	0.40
1:A:556:ARG:O	1:A:560:LEU:HG	2.22	0.40
1:B:91:ASP:HB2	1:B:94:MET:HB2	2.03	0.40
1:C:90:ILE:O	1:C:134:PRO:HB3	2.21	0.40
1:C:166:LEU:HD22	1:C:269:GLU:OE2	2.21	0.40
1:C:215:ARG:O	1:C:219:CYS:SG	2.79	0.40
1:D:68:GLY:CA	1:D:293:TRP:CZ2	3.04	0.40
1:D:187:GLU:CG	1:D:188:MET:N	2.83	0.40
1:D:554:GLU:O	1:D:558:LEU:CD1	2.69	0.40
1:D:554:GLU:O	1:D:558:LEU:HD12	2.21	0.40
1:D:659:TRP:CD1	1:D:669:ARG:HD2	2.55	0.40
1:E:81:ILE:O	1:E:82:LYS:HD3	2.21	0.40
1:E:592:PHE:HB3	1:E:594:LEU:HG	2.03	0.40
1:F:716:TYR:HH	1:F:723:HIS:CE1	2.38	0.40
1:G:397:ILE:O	1:G:401:LEU:HD13	2.21	0.40
1:G:693:MET:CE	1:G:741:MET:SD	3.09	0.40
1:H:446:ALA:HB1	1:H:450:MET:HE1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:651:ARG:O	1:H:652:PRO:C	2.60	0.40
1:H:695:LYS:N	1:H:695:LYS:HD3	2.35	0.40
1:I:66:LYS:HD3	1:I:67:LEU:N	2.36	0.40
1:I:176:LEU:O	1:I:180:GLU:HG3	2.21	0.40
1:J:139:VAL:HG13	1:J:761:PHE:HE2	1.86	0.40
1:J:205:LYS:HE2	1:J:209:GLN:CG	2.50	0.40
1:K:567:LEU:HA	1:K:570:HIS:ND1	2.36	0.40
1:K:689:GLN:C	1:K:693:MET:HE1	2.42	0.40
1:L:96:SER:O	1:L:99:GLN:HG3	2.20	0.40
1:L:351:ARG:HG3	1:L:352:TYR:N	2.35	0.40
1:L:352:TYR:CD2	1:L:415:GLU:HB2	2.56	0.40
1:L:408:GLU:OE1	1:L:408:GLU:N	2.54	0.40
1:L:424:LYS:HE2	1:L:471:ASN:O	2.21	0.40
2:M:42:VAL:HG22	2:M:93:LEU:HD21	2.02	0.40
2:M:44:SER:O	2:M:47:ASN:OD1	2.39	0.40
2:M:124:THR:HG1	2:M:125:VAL:H	1.69	0.40
2:M:223:ILE:CG1	2:M:227:PHE:HA	2.50	0.40
2:M:227:PHE:CE2	2:N:268:ASN:CB	3.03	0.40
2:M:245:LYS:HD3	2:M:245:LYS:N	2.35	0.40
2:M:278:LYS:HA	2:M:283:LEU:CD2	2.47	0.40
2:M:412:SER:O	2:M:415:ASN:OD1	2.39	0.40
2:M:493:SER:HG	2:M:496:LYS:HB2	1.86	0.40
2:M:510:ILE:HD13	2:M:554:CYS:SG	2.61	0.40
2:M:642:ILE:HG22	2:M:710:ILE:HG13	2.03	0.40
2:N:231:TRP:NE1	2:N:235:GLU:OE2	2.54	0.40
2:N:352:VAL:HG21	2:N:371:LEU:HD22	2.02	0.40
2:N:426:LEU:HA	2:N:429:ILE:HD11	2.02	0.40
2:N:538:TYR:HD2	2:N:539:MET:CE	2.34	0.40
2:N:846:ILE:HG13	2:N:847:SER:N	2.36	0.40
2:N:910:PHE:HB3	2:N:913:THR:HG22	2.03	0.40
2:O:153:TRP:CD2	2:O:157:LEU:HD11	2.56	0.40
2:O:443:MET:HE1	2:O:500:MET:HG2	2.01	0.40
2:O:552:ASN:OD1	2:O:552:ASN:C	2.59	0.40
2:O:752:HIS:N	2:O:755:ARG:HH21	2.19	0.40
2:P:127:ALA:O	2:P:131:LYS:CD	2.69	0.40
2:P:262:ARG:HH11	2:P:294:GLU:HG2	1.85	0.40
2:P:356:LEU:HB3	2:P:358:LEU:CD2	2.51	0.40
2:P:425:MET:HA	2:P:428:ASN:ND2	2.36	0.40
2:P:446:LEU:HD21	2:P:486:VAL:HA	2.02	0.40
2:P:494:LEU:HB3	2:P:724:GLU:OE1	2.21	0.40
2:P:713:VAL:O	2:P:717:LEU:HD13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:864:SER:HB3	2:P:867:ALA:CB	2.51	0.40
2:Q:287:GLY:O	2:Q:290:VAL:HG22	2.22	0.40
2:Q:444:ASP:C	2:Q:448:LYS:HZ3	2.24	0.40
2:Q:580:SER:CB	2:Q:589:LYS:HZ3	2.33	0.40
2:Q:635:CYS:O	2:Q:636:ARG:HB3	2.22	0.40
2:R:123:VAL:HG13	2:S:177:PHE:HE1	1.83	0.40
2:R:207:ALA:O	2:R:210:ILE:HG12	2.21	0.40
2:R:237:ILE:HA	2:R:241:PHE:HB2	2.03	0.40
2:R:330:VAL:HG22	2:R:331:LYS:N	2.36	0.40
2:R:446:LEU:HD21	2:R:486:VAL:CG1	2.41	0.40
2:R:566:LYS:HA	2:R:566:LYS:CE	2.48	0.40
2:R:622:VAL:CG1	2:R:778:ASN:HB3	2.42	0.40
2:S:83:THR:C	2:S:86:ILE:HG12	2.41	0.40
2:S:158:ALA:CA	2:S:161:GLN:HG3	2.51	0.40
2:S:164:LEU:HD23	2:S:164:LEU:O	2.21	0.40
2:S:261:ILE:HG22	2:S:294:GLU:OE1	2.21	0.40
2:S:435:ASN:HD21	2:S:440:ARG:C	2.24	0.40
2:S:451:PHE:C	2:S:454:VAL:HG12	2.41	0.40
2:S:588:TYR:HA	2:S:919:SER:O	2.21	0.40
2:S:736:LYS:HB3	2:S:789:GLU:HG3	2.03	0.40
1:B:258:TRP:CD2	1:B:263:LYS:HB2	2.56	0.40
1:B:304:THR:O	1:B:305:LEU:C	2.60	0.40
1:D:81:ILE:HD12	1:D:89:LYS:C	2.42	0.40
1:D:102:MET:O	1:D:753:PHE:HD2	2.04	0.40
1:D:288:LEU:O	1:D:291:LEU:HB2	2.22	0.40
1:D:638:GLU:O	1:D:641:ARG:HB2	2.21	0.40
1:E:506:LEU:HD23	1:E:685:VAL:HG11	2.02	0.40
1:E:564:TRP:CE2	1:E:568:ARG:HD2	2.55	0.40
1:E:639:ARG:O	1:E:642:GLU:HG2	2.22	0.40
1:E:722:HIS:O	1:E:725:PHE:HD2	2.05	0.40
1:E:794:ARG:CZ	1:E:796:HIS:HB2	2.51	0.40
1:F:610:ARG:HA	1:F:656:TYR:OH	2.21	0.40
1:G:164:CYS:CB	1:G:306:LEU:HD21	2.52	0.40
1:G:564:TRP:CH2	1:G:600:ILE:HG23	2.56	0.40
1:G:743:ILE:HD12	1:G:743:ILE:N	2.35	0.40
1:G:758:LYS:CG	1:G:762:TYR:HE2	2.34	0.40
1:H:69:PRO:HD2	1:H:289:GLU:HG2	2.03	0.40
1:H:97:GLU:HG2	1:I:547:LEU:CD2	2.51	0.40
1:H:617:GLU:HG2	1:H:637:TYR:O	2.21	0.40
1:I:481:CYS:HB3	1:I:485:ARG:HH22	1.86	0.40
1:J:352:TYR:CE1	1:J:415:GLU:OE2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:360:LYS:O	1:J:366:MET:HG3	2.20	0.40
1:J:556:ARG:NH1	1:J:560:LEU:HD21	2.37	0.40
1:J:782:LYS:HA	1:J:785:GLU:CD	2.42	0.40
1:K:143:ILE:O	1:K:147:CYS:N	2.42	0.40
1:K:586:ARG:NH2	1:K:590:LYS:HZ1	2.19	0.40
2:M:86:ILE:HD11	2:M:251:THR:CG2	2.51	0.40
2:M:168:THR:O	2:M:170:LYS:HD2	2.22	0.40
2:M:177:PHE:HD1	2:S:123:VAL:HG13	1.85	0.40
2:M:467:ARG:NH1	2:M:468:PRO:O	2.54	0.40
2:M:502:LEU:HD21	2:M:626:ILE:HG21	2.03	0.40
2:M:842:PHE:O	2:M:846:ILE:HG12	2.21	0.40
2:N:120:PRO:HG2	2:N:123:VAL:CB	2.50	0.40
2:N:206:ARG:NE	2:N:206:ARG:CA	2.83	0.40
2:N:379:LEU:HA	2:N:382:VAL:HG12	2.03	0.40
2:N:425:MET:HE2	2:N:428:ASN:CB	2.51	0.40
2:N:636:ARG:NH2	2:N:637:CYS:SG	2.92	0.40
2:O:37:LEU:HG	2:O:311:LYS:H	1.86	0.40
2:O:117:ARG:NH2	2:P:169:ASP:O	2.54	0.40
2:O:311:LYS:HD2	2:O:315:GLN:NE2	2.36	0.40
2:O:389:LYS:C	2:O:416:LEU:HD11	2.41	0.40
2:O:440:ARG:HH12	2:P:373:LYS:CB	2.34	0.40
2:O:506:GLY:HA2	2:O:509:SER:HB2	2.02	0.40
2:O:768:GLN:C	2:O:773:LYS:HZ3	2.25	0.40
2:O:809:ASN:HA	2:O:810:PRO:HD3	1.94	0.40
2:O:835:TRP:O	2:O:838:THR:O	2.40	0.40
2:P:206:ARG:NE	2:P:206:ARG:HA	2.36	0.40
2:P:299:LEU:CD1	2:P:300:LYS:HG3	2.51	0.40
2:P:337:GLN:OE1	2:P:337:GLN:N	2.31	0.40
2:P:390:LYS:HZ3	2:P:394:THR:HG1	1.68	0.40
2:P:462:THR:O	2:P:465:TYR:HB2	2.21	0.40
2:P:756:LEU:CA	2:P:769:SER:HB3	2.50	0.40
2:P:784:HIS:HE1	2:P:820:LYS:HD2	1.86	0.40
2:Q:134:SER:HA	2:Q:137:LEU:CD1	2.51	0.40
2:Q:136:LYS:HE3	2:Q:211:LEU:O	2.21	0.40
2:Q:167:LEU:HD12	2:Q:168:THR:OG1	2.22	0.40
2:Q:273:LEU:HA	2:Q:276:GLN:CD	2.41	0.40
2:Q:468:PRO:HG3	2:Q:480:ILE:HG23	2.02	0.40
2:Q:850:ILE:HG22	2:Q:850:ILE:O	2.21	0.40
2:R:70:ASN:HD21	2:R:246:LEU:CD1	2.34	0.40
2:R:125:VAL:HG12	2:R:129:LEU:CD1	2.51	0.40
2:R:135:ASP:HA	2:R:138:LYS:HZ3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:200:PHE:HB2	2:R:240:PHE:CE2	2.56	0.40
2:R:238:ARG:HH11	2:R:239:LYS:HB2	1.85	0.40
2:R:293:LEU:CA	2:R:296:GLN:HE21	2.34	0.40
2:R:656:ILE:HG22	2:R:657:VAL:N	2.36	0.40
2:S:73:PHE:CE1	2:S:257:TYR:HE2	2.39	0.40
2:S:108:PRO:O	2:S:110:ILE:HD12	2.22	0.40
2:S:356:LEU:HB2	2:S:358:LEU:CD1	2.52	0.40
2:S:584:MET:HE3	2:S:589:LYS:HD3	2.04	0.40
2:S:625:LEU:HD11	2:S:850:ILE:CG2	2.49	0.40
1:A:639:ARG:O	1:A:643:LEU:HD13	2.21	0.40
1:B:404:LEU:HD23	1:B:462:TRP:CH2	2.57	0.40
1:C:165:TRP:CE2	1:C:299:GLN:HG2	2.56	0.40
1:C:370:LEU:O	1:C:374:LEU:HG	2.21	0.40
1:D:55:TYR:O	1:D:58:GLN:HB3	2.21	0.40
1:D:554:GLU:HG3	1:D:555:THR:N	2.37	0.40
1:D:557:LEU:HB2	1:D:587:LEU:HD23	2.03	0.40
1:D:761:PHE:CE2	1:D:783:VAL:HG12	2.56	0.40
1:E:649:MET:C	1:E:652:PRO:HD2	2.41	0.40
1:E:678:GLU:O	1:E:678:GLU:CD	2.60	0.40
1:G:560:LEU:CB	1:G:584:ALA:HB2	2.51	0.40
1:H:610:ARG:HG2	1:H:659:TRP:CZ3	2.57	0.40
1:I:34:PHE:O	1:I:37:GLN:HG3	2.21	0.40
1:I:124:GLN:NE2	1:I:125:GLU:O	2.55	0.40
1:I:225:VAL:O	1:I:227:LEU:N	2.55	0.40
1:I:234:MET:SD	1:I:240:LEU:CD1	3.08	0.40
1:J:44:LEU:HA	1:J:45:PRO:HD3	1.96	0.40
1:J:165:TRP:O	1:J:169:LEU:HG	2.22	0.40
1:J:265:SER:O	1:J:268:SER:HB3	2.21	0.40
1:J:641:ARG:HA	1:J:644:VAL:HG22	2.03	0.40
1:K:199:LEU:O	1:K:203:ILE:HB	2.21	0.40
1:K:304:THR:O	1:K:307:VAL:HG22	2.21	0.40
1:K:526:ASP:C	1:K:701:ILE:HD12	2.42	0.40
1:K:702:ALA:HA	1:K:742:SER:HG	1.86	0.40
1:L:226:GLU:O	1:L:227:LEU:C	2.60	0.40
2:M:75:ASP:OD2	2:M:309:GLN:HA	2.22	0.40
2:M:117:ARG:NH1	2:M:118:HIS:CB	2.84	0.40
2:M:230:GLY:O	2:M:234:LEU:CD1	2.69	0.40
2:M:443:MET:CE	2:M:500:MET:CE	2.99	0.40
2:M:539:MET:CE	2:M:541:VAL:HB	2.51	0.40
2:M:562:PRO:CG	2:M:570:PHE:CD2	3.04	0.40
2:M:876:LYS:NZ	2:M:877:LEU:HG	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:135:ASP:CA	2:N:138:LYS:HG3	2.51	0.40
2:N:223:ILE:CG1	2:N:227:PHE:HA	2.52	0.40
2:N:425:MET:HE2	2:N:478:CYS:SG	2.61	0.40
2:N:584:MET:HE2	2:N:921:THR:HG21	2.03	0.40
2:N:613:SER:HB3	2:N:617:MET:HE1	2.03	0.40
2:O:389:LYS:HZ3	2:O:419:ASN:CB	2.35	0.40
2:O:426:LEU:HD11	2:O:436:TYR:HE1	1.83	0.40
2:O:567:ILE:CB	2:O:753:LYS:HD2	2.51	0.40
2:O:611:VAL:HG23	2:O:619:PHE:CD1	2.56	0.40
2:P:133:VAL:HG13	2:P:210:ILE:HD12	2.03	0.40
2:P:223:ILE:HD12	2:P:227:PHE:CA	2.50	0.40
2:P:515:VAL:HG11	2:P:535:TYR:CD1	2.56	0.40
2:P:762:HIS:N	2:P:918:ASN:HD21	2.20	0.40
2:P:776:ARG:NH1	2:P:871:GLU:OE1	2.54	0.40
2:Q:74:VAL:HG22	2:Q:308:ILE:HG21	2.01	0.40
2:Q:156:HIS:CB	2:Q:203:LEU:HD23	2.51	0.40
2:Q:421:LEU:CB	2:Q:481:TYR:HD2	2.35	0.40
2:Q:503:VAL:HA	2:Q:550:TRP:CZ2	2.57	0.40
2:Q:748:VAL:HG12	2:Q:811:VAL:HG22	2.03	0.40
2:R:261:ILE:O	2:R:265:GLN:CG	2.70	0.40
2:R:376:VAL:O	2:R:379:LEU:HG	2.21	0.40
2:R:533:SER:O	2:R:536:VAL:HG22	2.21	0.40
2:R:625:LEU:HD11	2:R:854:PHE:CZ	2.55	0.40
2:R:639:ARG:HH11	2:R:714:GLU:HB3	1.87	0.40
2:S:332:THR:N	2:S:336:MET:CE	2.80	0.40
2:S:856:PHE:CD1	2:S:892:TRP:HZ3	2.39	0.40
1:A:69:PRO:HD3	1:A:293:TRP:NE1	2.37	0.40
1:A:405:GLU:OE2	1:A:458:ARG:NH1	2.54	0.40
1:A:439:PHE:CE1	1:A:483:LEU:HD21	2.57	0.40
1:A:689:GLN:C	1:A:693:MET:HE1	2.42	0.40
1:B:282:PHE:CE2	1:B:283:ASN:OD1	2.74	0.40
1:B:535:GLY:HA2	1:B:727:TRP:NE1	2.36	0.40
1:C:54:SER:HA	1:C:57:VAL:HG22	2.02	0.40
1:C:170:LYS:HA	1:C:264:TYR:CE2	2.56	0.40
1:C:196:ASP:OD2	1:C:207:ARG:NH2	2.48	0.40
1:C:511:ARG:HD3	1:C:559:ASP:OD1	2.21	0.40
1:D:246:LEU:HA	1:D:250:ARG:O	2.21	0.40
1:E:28:ARG:HD3	1:E:28:ARG:C	2.42	0.40
1:E:401:LEU:HD13	1:E:458:ARG:HB2	2.04	0.40
1:F:234:MET:HE1	1:F:240:LEU:HG	2.02	0.40
1:F:727:TRP:CD1	1:F:741:MET:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:766:VAL:O	1:F:770:ARG:HG3	2.21	0.40
1:G:81:ILE:C	1:G:82:LYS:HD2	2.41	0.40
1:G:90:ILE:N	1:G:133:TYR:O	2.53	0.40
1:G:505:HIS:ND1	1:G:507:ILE:HG12	2.37	0.40
1:G:570:HIS:CE1	1:G:572:GLU:HB2	2.56	0.40
1:H:80:PHE:HA	1:H:94:MET:CE	2.52	0.40
1:I:766:VAL:HG13	1:I:770:ARG:NH1	2.37	0.40
1:J:84:GLU:HB2	1:J:89:LYS:HB2	2.03	0.40
1:J:656:TYR:CE2	1:J:660:LEU:HD11	2.56	0.40
1:K:565:ARG:HG2	1:K:568:ARG:NH1	2.36	0.40
1:L:2:GLU:CD	1:L:72:ILE:HG23	2.42	0.40
1:L:201:PRO:O	1:L:204:PHE:HB3	2.22	0.40
1:L:763:HIS:O	1:L:766:VAL:HG22	2.21	0.40
2:M:196:LEU:HG	2:M:240:PHE:CE1	2.56	0.40
2:M:335:SER:HB2	2:M:337:GLN:HE22	1.85	0.40
2:M:379:LEU:HA	2:M:382:VAL:CG1	2.50	0.40
2:M:462:THR:HB	2:M:465:TYR:CE2	2.54	0.40
2:M:541:VAL:HG13	2:M:541:VAL:O	2.19	0.40
2:M:573:MET:CE	2:M:623:PHE:CE2	3.04	0.40
2:M:646:PHE:HE1	2:M:710:ILE:HA	1.87	0.40
2:M:852:HIS:CA	2:M:855:ILE:HG13	2.51	0.40
2:N:37:LEU:HG	2:N:310:LEU:HA	2.03	0.40
2:N:71:VAL:HG22	2:N:248:VAL:HB	2.03	0.40
2:N:496:LYS:O	2:N:500:MET:SD	2.80	0.40
2:N:593:ILE:HG23	2:N:601:LYS:HZ1	1.82	0.40
2:O:152:GLN:O	2:O:155:ASN:HB2	2.22	0.40
2:O:359:ARG:NH1	2:O:791:SER:O	2.49	0.40
2:O:757:TYR:HB3	2:O:930:ASP:C	2.42	0.40
2:O:855:ILE:HD13	2:O:878:ILE:HD13	2.03	0.40
2:P:45:ILE:HD12	2:P:45:ILE:H	1.85	0.40
2:P:307:ARG:HD2	2:P:307:ARG:HA	1.84	0.40
2:P:329:LYS:HA	2:P:343:ASP:C	2.42	0.40
2:P:429:ILE:O	2:P:432:ALA:HB3	2.22	0.40
2:P:758:ARG:HG3	2:P:929:LYS:O	2.21	0.40
2:P:820:LYS:O	2:P:824:ILE:HG13	2.21	0.40
2:Q:498:LEU:HB3	2:Q:630:ALA:HB2	2.03	0.40
2:Q:534:GLU:OE2	2:R:458:ARG:HD2	2.22	0.40
2:Q:610:THR:HA	2:Q:618:ASP:HA	2.03	0.40
2:Q:708:ASP:C	2:Q:712:LYS:HZ3	2.24	0.40
2:R:110:ILE:N	2:R:219:THR:O	2.33	0.40
2:R:265:GLN:HE22	2:R:294:GLU:CB	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:337:GLN:HE22	2:R:339:ILE:HB	1.82	0.40
2:R:352:VAL:HG21	2:R:368:VAL:CG2	2.51	0.40
2:R:437:GLU:OE1	2:R:437:GLU:N	2.35	0.40
2:R:602:ALA:HB2	2:R:706:PHE:CE1	2.56	0.40
2:R:759:ASN:O	2:R:768:GLN:NE2	2.54	0.40
2:R:762:HIS:C	2:R:859:GLY:HA2	2.42	0.40
2:S:234:LEU:O	2:S:238:ARG:CZ	2.70	0.40
2:S:720:VAL:HG22	2:S:844:LEU:CD2	2.47	0.40
2:S:828:LEU:CB	2:S:829:LYS:HZ2	2.34	0.40
1:A:2:GLU:O	1:A:72:ILE:HD11	2.22	0.40
1:A:304:THR:HA	1:A:307:VAL:HG22	2.02	0.40
1:A:561:VAL:HG21	1:A:607:PHE:CE2	2.57	0.40
1:A:582:ILE:CD1	1:K:601:THR:OG1	2.70	0.40
1:A:641:ARG:O	1:A:644:VAL:HG22	2.22	0.40
1:B:34:PHE:O	1:B:37:GLN:HG3	2.22	0.40
1:B:116:VAL:HG21	1:B:277:LEU:HB2	2.03	0.40
1:B:385:MET:SD	1:B:386:SER:N	2.94	0.40
1:C:20:LEU:HD12	1:C:237:PRO:HD3	2.04	0.40
1:C:162:GLU:OE1	1:C:162:GLU:N	2.44	0.40
1:C:265:SER:O	1:C:268:SER:HB3	2.22	0.40
1:C:416:LEU:HD21	1:C:418:LEU:HD21	2.02	0.40
1:C:619:LEU:HD12	1:C:619:LEU:N	2.36	0.40
1:C:795:PHE:N	1:C:795:PHE:CD2	2.90	0.40
1:D:361:SER:HA	1:D:445:GLN:OE1	2.21	0.40
1:D:440:LYS:O	1:D:444:ASN:OD1	2.39	0.40
1:D:515:ASP:HA	1:D:518:ARG:HG2	2.02	0.40
1:D:785:GLU:O	1:D:789:ASN:OD1	2.40	0.40
1:E:3:ARG:HE	1:E:104:ARG:HH21	1.69	0.40
1:E:244:THR:OG1	1:E:251:GLU:OE1	2.31	0.40
1:E:422:PHE:HB2	1:E:468:ALA:HA	2.03	0.40
1:E:601:THR:C	1:E:605:GLN:OE1	2.59	0.40
1:F:162:GLU:HB3	1:F:266:GLN:OE1	2.21	0.40
1:F:563:ILE:CG2	1:F:567:LEU:HD12	2.51	0.40
1:G:76:ILE:HG21	1:G:110:ILE:HD13	2.03	0.40
1:G:370:LEU:O	1:G:374:LEU:HG	2.22	0.40
1:G:494:HIS:HA	1:G:526:ASP:OD1	2.22	0.40
1:G:585:VAL:O	1:G:589:HIS:CD2	2.75	0.40
1:G:722:HIS:CD2	1:G:724:ILE:H	2.40	0.40
1:H:160:SER:HB2	1:H:754:ALA:HA	2.03	0.40
1:H:758:LYS:HG2	1:H:762:TYR:HE2	1.86	0.40
1:I:35:LEU:O	1:I:38:TYR:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:202:ARG:HD2	1:I:206:ASP:OD2	2.21	0.40
1:I:363:PRO:O	1:I:367:GLN:HG3	2.21	0.40
1:J:478:GLU:HG2	1:J:479:LEU:HD22	2.03	0.40
1:J:527:ARG:NH2	1:J:704:GLU:CG	2.85	0.40
1:J:582:ILE:O	1:J:586:ARG:HG2	2.21	0.40
1:K:134:PRO:HD2	1:K:762:TYR:CD1	2.57	0.40
1:K:173:GLU:O	1:K:177:ARG:HG2	2.22	0.40
1:K:199:LEU:O	1:K:200:THR:O	2.39	0.40
1:K:359:PRO:CD	1:K:421:HIS:O	2.69	0.40
1:K:376:GLY:HA2	1:K:379:GLU:OE1	2.22	0.40
1:L:297:LEU:C	1:L:301:GLN:OE1	2.60	0.40
1:L:335:LEU:HD12	1:L:380:TYR:HB2	2.03	0.40
2:M:200:PHE:O	2:M:204:VAL:HG23	2.21	0.40
2:M:202:GLU:OE2	2:M:203:LEU:HG	2.21	0.40
2:M:304:VAL:HG12	2:S:423:GLY:HA3	2.03	0.40
2:M:333:GLU:OE1	2:M:336:MET:CE	2.70	0.40
2:M:388:THR:CG2	2:M:392:HIS:CE1	3.04	0.40
2:M:518:LEU:HD23	2:M:518:LEU:C	2.41	0.40
2:M:570:PHE:CD1	2:M:573:MET:HG2	2.56	0.40
2:M:611:VAL:C	2:M:654:THR:HG23	2.42	0.40
2:M:719:ASN:O	2:M:723:ILE:HG13	2.21	0.40
2:M:741:PHE:CE2	2:M:745:LEU:HD21	2.56	0.40
2:N:421:LEU:HB3	2:N:481:TYR:CD1	2.42	0.40
2:N:425:MET:HE2	2:N:428:ASN:HB3	2.04	0.40
2:N:740:ARG:HG3	2:N:744:ASN:ND2	2.24	0.40
2:N:810:PRO:HG3	2:N:817:PHE:H	1.86	0.40
2:O:828:LEU:HG	2:O:833:LYS:HD3	1.97	0.40
2:P:115:LEU:HD12	2:P:115:LEU:C	2.42	0.40
2:P:150:LYS:O	2:P:154:GLN:OE1	2.40	0.40
2:P:225:THR:HA	2:Q:297:TYR:CZ	2.55	0.40
2:P:256:LEU:HD23	2:P:256:LEU:C	2.41	0.40
2:P:303:PRO:O	2:P:306:LYS:N	2.53	0.40
2:P:415:ASN:HA	2:P:418:ARG:HD3	2.02	0.40
2:P:459:ASP:OD2	2:P:463:GLY:N	2.55	0.40
2:P:552:ASN:OD1	2:P:553:ARG:CD	2.64	0.40
2:P:611:VAL:O	2:P:616:LEU:HA	2.22	0.40
2:P:621:SER:OG	2:P:624:ASN:CB	2.68	0.40
2:P:761:GLU:HB2	2:P:918:ASN:OD1	2.22	0.40
2:Q:389:LYS:HZ3	2:Q:420:ALA:CB	2.19	0.40
2:Q:553:ARG:NH1	2:Q:553:ARG:HB2	2.36	0.40
2:Q:574:VAL:CG1	2:Q:576:LEU:HD12	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:704:THR:HG23	2:Q:705:GLU:N	2.37	0.40
2:Q:736:LYS:HG3	2:Q:793:TYR:CD1	2.57	0.40
2:Q:776:ARG:HD2	2:Q:857:PRO:CG	2.52	0.40
2:R:122:LEU:CD1	2:R:240:PHE:CD2	3.04	0.40
2:R:293:LEU:CA	2:R:296:GLN:HG3	2.50	0.40
2:R:569:VAL:CG1	2:R:574:VAL:HG22	2.48	0.40
2:R:794:HIS:CD2	2:R:796:VAL:HG13	2.57	0.40
2:S:173:LYS:CE	2:S:175:GLU:CG	2.83	0.40
2:S:255:ARG:HG3	2:S:256:LEU:N	2.36	0.40
2:S:345:ARG:HA	2:S:348:ILE:HG12	2.04	0.40
2:S:390:LYS:HD3	2:S:390:LYS:HA	1.97	0.40
2:S:468:PRO:CG	2:S:480:ILE:HD11	2.52	0.40
2:S:743:PHE:HA	2:S:746:ASN:HD22	1.87	0.40
2:S:823:ILE:C	2:S:826:GLU:HG3	2.42	0.40
2:S:877:LEU:O	2:S:881:ILE:HG13	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	762/799 (95%)	697 (92%)	61 (8%)	4 (0%)	29 69
1	B	762/799 (95%)	706 (93%)	51 (7%)	5 (1%)	22 63
1	C	762/799 (95%)	697 (92%)	60 (8%)	5 (1%)	22 63
1	D	757/799 (95%)	688 (91%)	64 (8%)	5 (1%)	22 63
1	E	762/799 (95%)	693 (91%)	65 (8%)	4 (0%)	29 69
1	F	762/799 (95%)	693 (91%)	64 (8%)	5 (1%)	22 63
1	G	762/799 (95%)	690 (91%)	67 (9%)	5 (1%)	22 63
1	H	762/799 (95%)	692 (91%)	65 (8%)	5 (1%)	22 63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	762/799 (95%)	704 (92%)	53 (7%)	5 (1%)	22	63
1	J	762/799 (95%)	696 (91%)	61 (8%)	5 (1%)	22	63
1	K	762/799 (95%)	690 (91%)	66 (9%)	6 (1%)	19	60
1	L	762/799 (95%)	697 (92%)	60 (8%)	5 (1%)	22	63
2	M	766/947 (81%)	704 (92%)	58 (8%)	4 (0%)	29	69
2	N	766/947 (81%)	695 (91%)	66 (9%)	5 (1%)	22	63
2	O	766/947 (81%)	704 (92%)	58 (8%)	4 (0%)	29	69
2	P	766/947 (81%)	680 (89%)	82 (11%)	4 (0%)	29	69
2	Q	766/947 (81%)	698 (91%)	63 (8%)	5 (1%)	22	63
2	R	766/947 (81%)	706 (92%)	56 (7%)	4 (0%)	29	69
2	S	766/947 (81%)	700 (91%)	61 (8%)	5 (1%)	22	63
All	All	14501/16217 (89%)	13230 (91%)	1181 (8%)	90 (1%)	29	66

All (90) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	23	VAL
1	B	23	VAL
1	C	23	VAL
1	D	23	VAL
1	E	23	VAL
1	E	85	LYS
1	F	23	VAL
1	G	23	VAL
1	H	23	VAL
1	I	23	VAL
1	J	23	VAL
1	K	23	VAL
1	L	23	VAL
2	M	561	SER
2	N	561	SER
2	O	561	SER
2	P	343	ASP
2	P	561	SER
2	Q	561	SER
2	R	343	ASP
2	R	561	SER
2	S	561	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	390	VAL
1	B	390	VAL
1	B	470	ALA
1	C	390	VAL
1	D	85	LYS
1	D	390	VAL
1	F	390	VAL
1	G	390	VAL
1	H	390	VAL
1	H	470	ALA
1	I	85	LYS
1	I	390	VAL
1	J	390	VAL
1	K	390	VAL
1	K	470	ALA
2	M	343	ASP
2	M	614	ASN
2	N	343	ASP
2	N	614	ASN
2	O	614	ASN
2	P	614	ASN
2	Q	614	ASN
2	R	614	ASN
2	S	343	ASP
2	S	614	ASN
1	A	85	LYS
1	B	85	LYS
1	C	85	LYS
1	D	470	ALA
1	E	390	VAL
1	F	85	LYS
1	G	85	LYS
1	G	470	ALA
1	H	85	LYS
1	I	470	ALA
1	J	85	LYS
1	J	470	ALA
1	L	85	LYS
1	L	470	ALA
2	M	310	LEU
2	O	343	ASP
2	Q	343	ASP

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Mol	Chain	Res	Type
1	A	470	ALA
1	B	200	THR
1	F	200	THR
1	I	200	THR
1	K	85	LYS
2	N	310	LEU
2	O	310	LEU
2	P	329	LYS
2	Q	329	LYS
2	R	329	LYS
2	S	359	ARG
1	C	200	THR
1	D	200	THR
1	H	200	THR
1	K	200	THR
1	K	494	HIS
1	L	200	THR
1	L	390	VAL
1	E	200	THR
1	F	470	ALA
2	N	329	LYS
2	Q	310	LEU
2	S	329	LYS
1	C	287	GLY
1	G	200	THR
1	J	200	THR

### 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	678/706 (96%)	673 (99%)	5 (1%)	84 90
1	B	678/706 (96%)	677 (100%)	1 (0%)	93 96
1	C	678/706 (96%)	673 (99%)	5 (1%)	84 90
1	D	675/706 (96%)	671 (99%)	4 (1%)	86 92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	678/706 (96%)	673 (99%)	5 (1%)	84	90
1	F	678/706 (96%)	675 (100%)	3 (0%)	91	94
1	G	678/706 (96%)	677 (100%)	1 (0%)	93	96
1	H	678/706 (96%)	676 (100%)	2 (0%)	92	94
1	I	678/706 (96%)	675 (100%)	3 (0%)	91	94
1	J	678/706 (96%)	676 (100%)	2 (0%)	92	94
1	K	678/706 (96%)	676 (100%)	2 (0%)	92	94
1	L	678/706 (96%)	676 (100%)	2 (0%)	92	94
2	M	696/837 (83%)	687 (99%)	9 (1%)	69	82
2	N	696/837 (83%)	691 (99%)	5 (1%)	84	90
2	O	696/837 (83%)	692 (99%)	4 (1%)	86	92
2	P	696/837 (83%)	695 (100%)	1 (0%)	93	96
2	Q	696/837 (83%)	692 (99%)	4 (1%)	86	92
2	R	696/837 (83%)	691 (99%)	5 (1%)	84	90
2	S	696/837 (83%)	691 (99%)	5 (1%)	84	90
All	All	13005/14331 (91%)	12937 (100%)	68 (0%)	89	93

All (68) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ARG
1	A	202	ARG
1	A	337	ARG
1	A	781	ARG
1	A	789	ASN
1	B	42	ARG
1	C	61	LYS
1	C	290	ARG
1	C	309	ARG
1	C	641	ARG
1	C	654	LYS
1	D	28	ARG
1	D	202	ARG
1	D	215	ARG
1	D	309	ARG
1	E	156	ASN
1	E	202	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	511	ARG
1	E	575	ARG
1	E	610	ARG
1	F	202	ARG
1	F	351	ARG
1	F	556	ARG
1	G	556	ARG
1	H	309	ARG
1	H	575	ARG
1	I	156	ASN
1	I	309	ARG
1	I	650	LYS
1	J	281	ARG
1	J	568	ARG
1	K	279	LYS
1	K	367	GLN
1	L	156	ASN
1	L	556	ARG
2	M	117	ARG
2	M	271	LYS
2	M	373	LYS
2	M	418	ARG
2	M	573	MET
2	M	718	LYS
2	M	764	ARG
2	M	822	LYS
2	M	897	LYS
2	N	138	LYS
2	N	282	ARG
2	N	307	ARG
2	N	728	ARG
2	N	934	ARG
2	O	373	LYS
2	O	418	ARG
2	O	728	ARG
2	O	934	ARG
2	P	829	LYS
2	Q	117	ARG
2	Q	255	ARG
2	Q	322	LYS
2	Q	377	ARG
2	R	130	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	R	331	LYS
2	R	448	LYS
2	R	525	ARG
2	R	578	ARG
2	S	38	ARG
2	S	162	ARG
2	S	579	LYS
2	S	718	LYS
2	S	870	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (149) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	99	GLN
1	A	787	ASN
1	B	62	GLN
1	B	115	GLN
1	B	153	GLN
1	B	248	ASN
1	B	505	HIS
1	B	668	GLN
1	B	787	ASN
1	B	789	ASN
1	C	248	ASN
1	C	367	GLN
1	C	474	HIS
1	D	83	ASN
1	D	209	GLN
1	D	213	ASN
1	D	236	ASN
1	D	248	ASN
1	D	340	HIS
1	E	7	ASN
1	E	37	GLN
1	E	235	GLN
1	E	238	GLN
1	E	300	ASN
1	E	364	ASN
1	E	367	GLN
1	E	474	HIS
1	E	718	ASN
1	F	62	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	349	GLN
1	G	99	GLN
1	G	115	GLN
1	G	213	ASN
1	G	248	ASN
1	G	301	GLN
1	G	367	GLN
1	G	589	HIS
1	G	722	HIS
1	G	787	ASN
1	H	194	GLN
1	H	213	ASN
1	H	236	ASN
1	H	658	GLN
1	H	718	ASN
1	I	149	HIS
1	I	213	ASN
1	I	248	ASN
1	I	494	HIS
1	I	723	HIS
1	J	114	HIS
1	J	248	ASN
1	J	435	HIS
1	J	445	GLN
1	K	213	ASN
1	K	248	ASN
1	K	689	GLN
1	L	114	HIS
1	L	118	ASN
1	L	194	GLN
1	L	299	GLN
1	L	384	HIS
1	L	421	HIS
1	L	690	GLN
2	M	118	HIS
2	M	159	GLN
2	M	296	GLN
2	M	381	GLN
2	M	428	ASN
2	M	477	ASN
2	M	491	GLN
2	M	499	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	582	GLN
2	M	624	ASN
2	N	154	GLN
2	N	194	GLN
2	N	295	GLN
2	N	296	GLN
2	N	357	ASN
2	N	381	GLN
2	N	439	HIS
2	N	512	ASN
2	N	560	ASN
2	N	624	ASN
2	N	762	HIS
2	N	768	GLN
2	N	837	ASN
2	N	839	HIS
2	O	265	GLN
2	O	276	GLN
2	O	309	GLN
2	O	315	GLN
2	O	439	HIS
2	O	456	GLN
2	O	491	GLN
2	O	575	GLN
2	O	597	ASN
2	O	746	ASN
2	O	759	ASN
2	O	768	GLN
2	O	778	ASN
2	O	784	HIS
2	P	40	GLN
2	P	155	ASN
2	P	156	HIS
2	P	159	GLN
2	P	276	GLN
2	P	295	GLN
2	P	296	GLN
2	P	309	GLN
2	P	315	GLN
2	P	456	GLN
2	P	512	ASN
2	P	549	HIS

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Mol	Chain	Res	Type
2	P	652	GLN
2	P	746	ASN
2	P	875	ASN
2	Q	47	ASN
2	Q	154	GLN
2	Q	265	GLN
2	Q	276	GLN
2	Q	296	GLN
2	Q	357	ASN
2	Q	381	GLN
2	Q	469	GLN
2	Q	491	GLN
2	Q	549	HIS
2	Q	575	GLN
2	Q	744	ASN
2	Q	746	ASN
2	Q	768	GLN
2	Q	778	ASN
2	R	70	ASN
2	R	161	GLN
2	R	309	GLN
2	R	337	GLN
2	R	381	GLN
2	R	469	GLN
2	R	582	GLN
2	R	652	GLN
2	S	155	ASN
2	S	156	HIS
2	S	357	ASN
2	S	381	GLN
2	S	435	ASN
2	S	469	GLN
2	S	575	GLN
2	S	582	GLN
2	S	652	GLN
2	S	721	ASN

### 5.3.3 RNA

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 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.

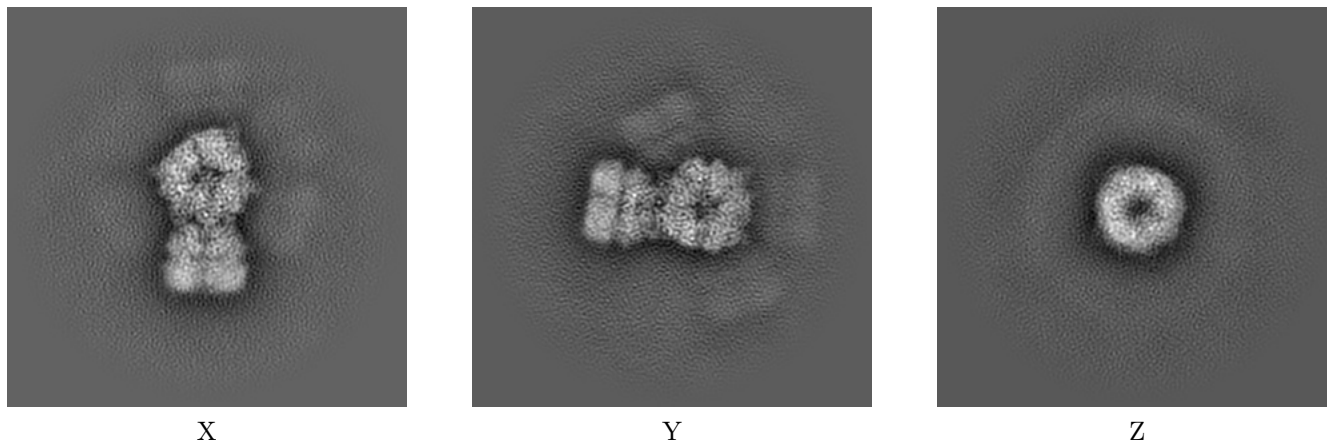
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29328. These allow visual inspection of the internal detail of the map and identification of artifacts.

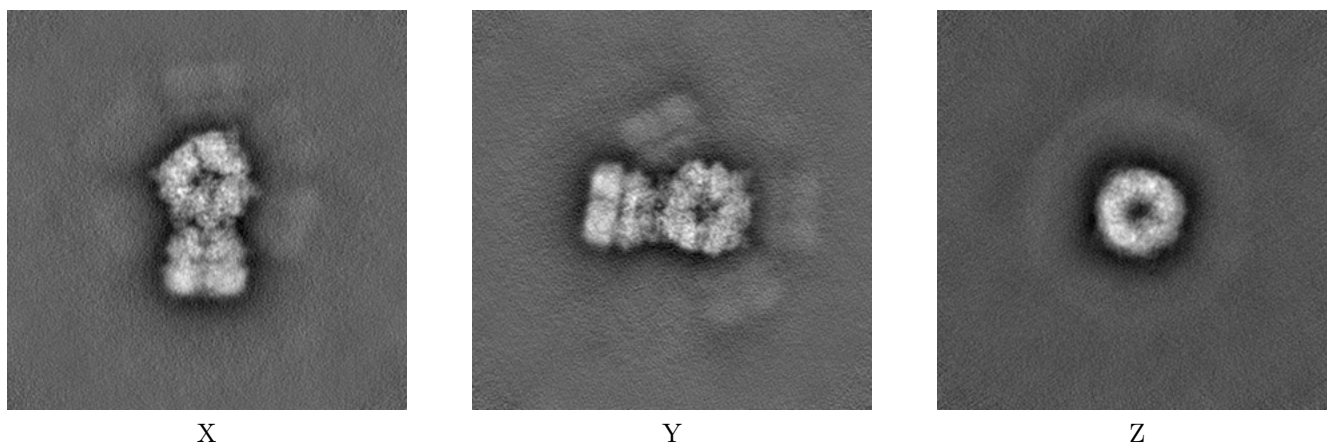
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

#### 6.1.1 Primary map



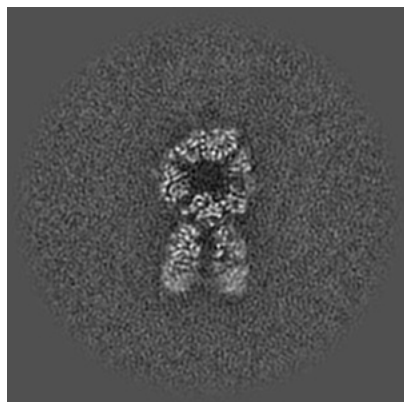
#### 6.1.2 Raw map



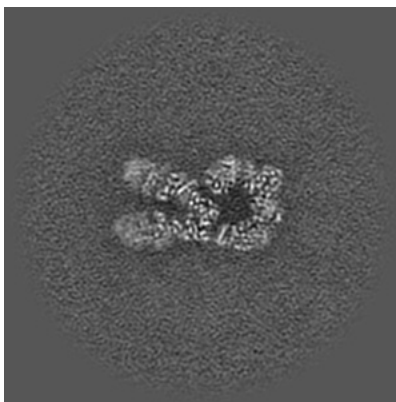
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

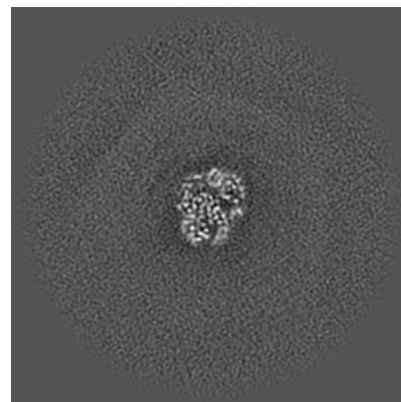
### 6.2.1 Primary map



X Index: 128

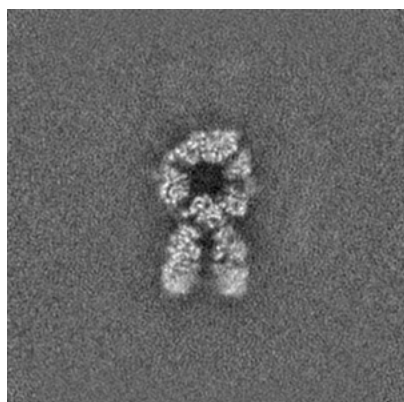


Y Index: 128

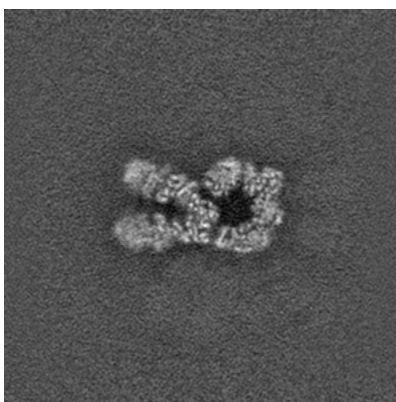


Z Index: 128

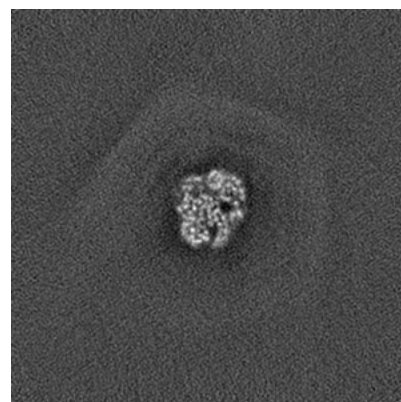
### 6.2.2 Raw map



X Index: 128



Y Index: 128



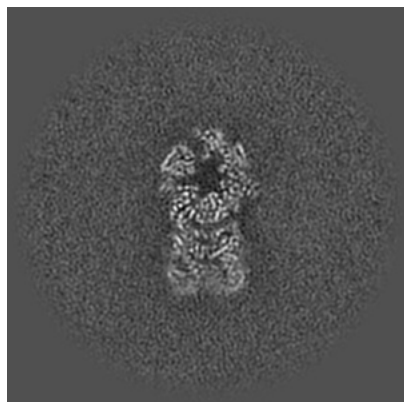
Z Index: 128

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

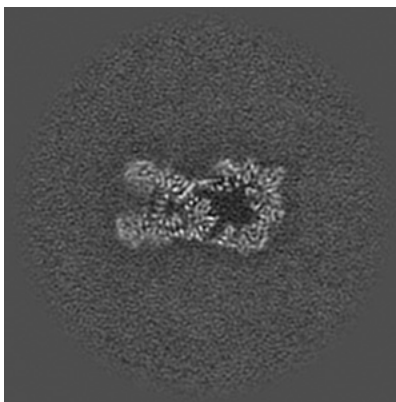


## 6.3 Largest variance slices [i](#)

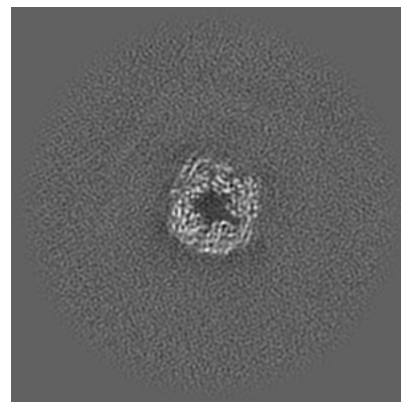
### 6.3.1 Primary map



X Index: 121

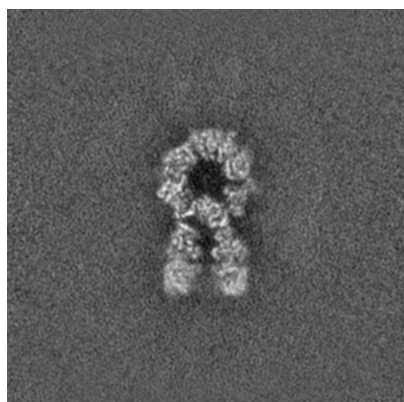


Y Index: 131

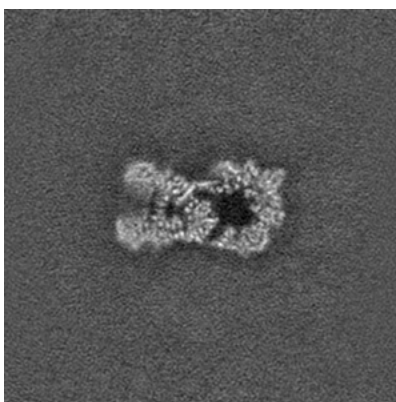


Z Index: 141

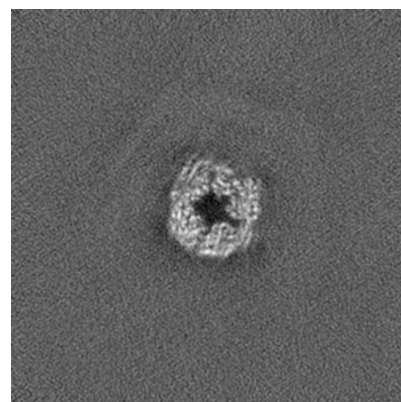
### 6.3.2 Raw map



X Index: 126



Y Index: 131

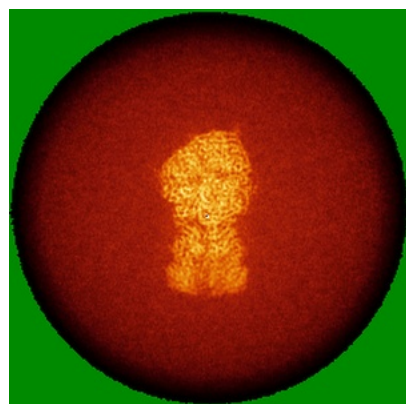


Z Index: 141

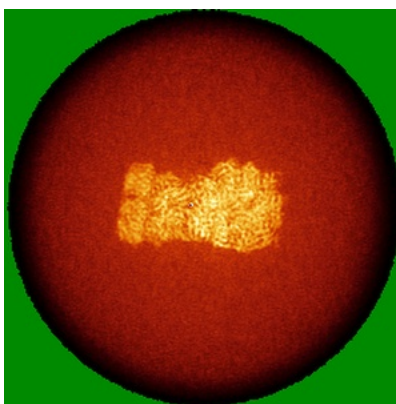
The images above show the largest variance slices of the map in three orthogonal directions.

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

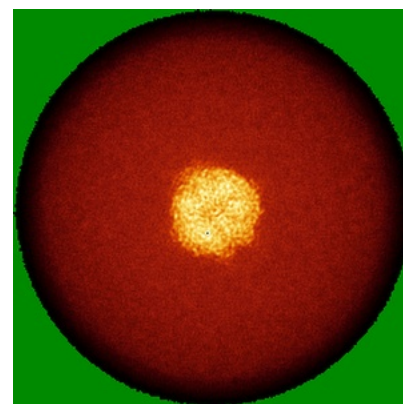
### 6.4.1 Primary map



X

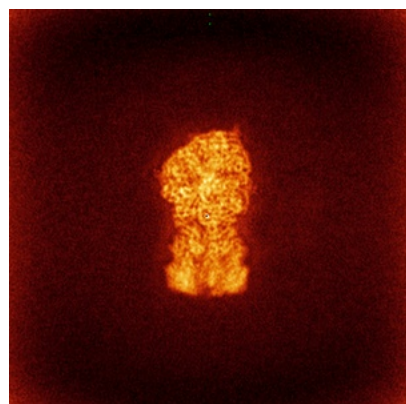


Y

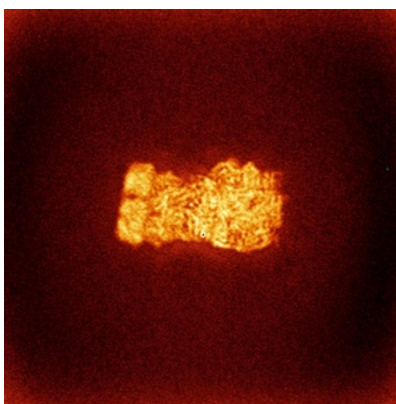


Z

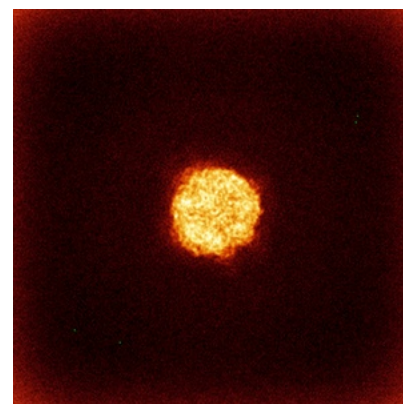
### 6.4.2 Raw map



X



Y

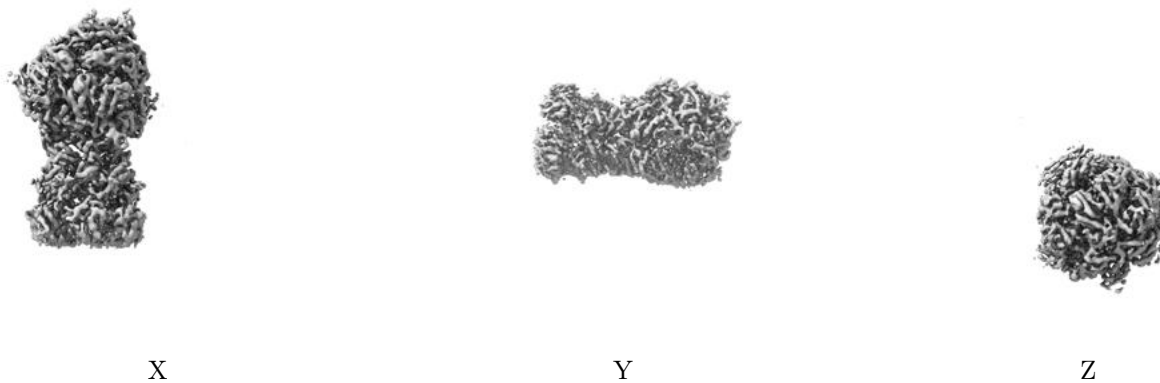


Z

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

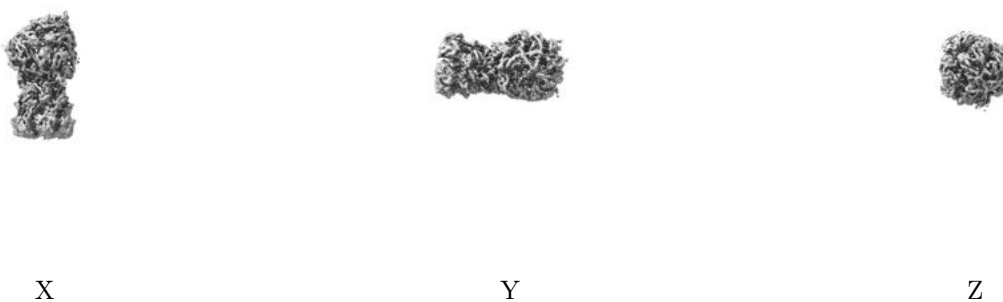
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 1.9. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



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

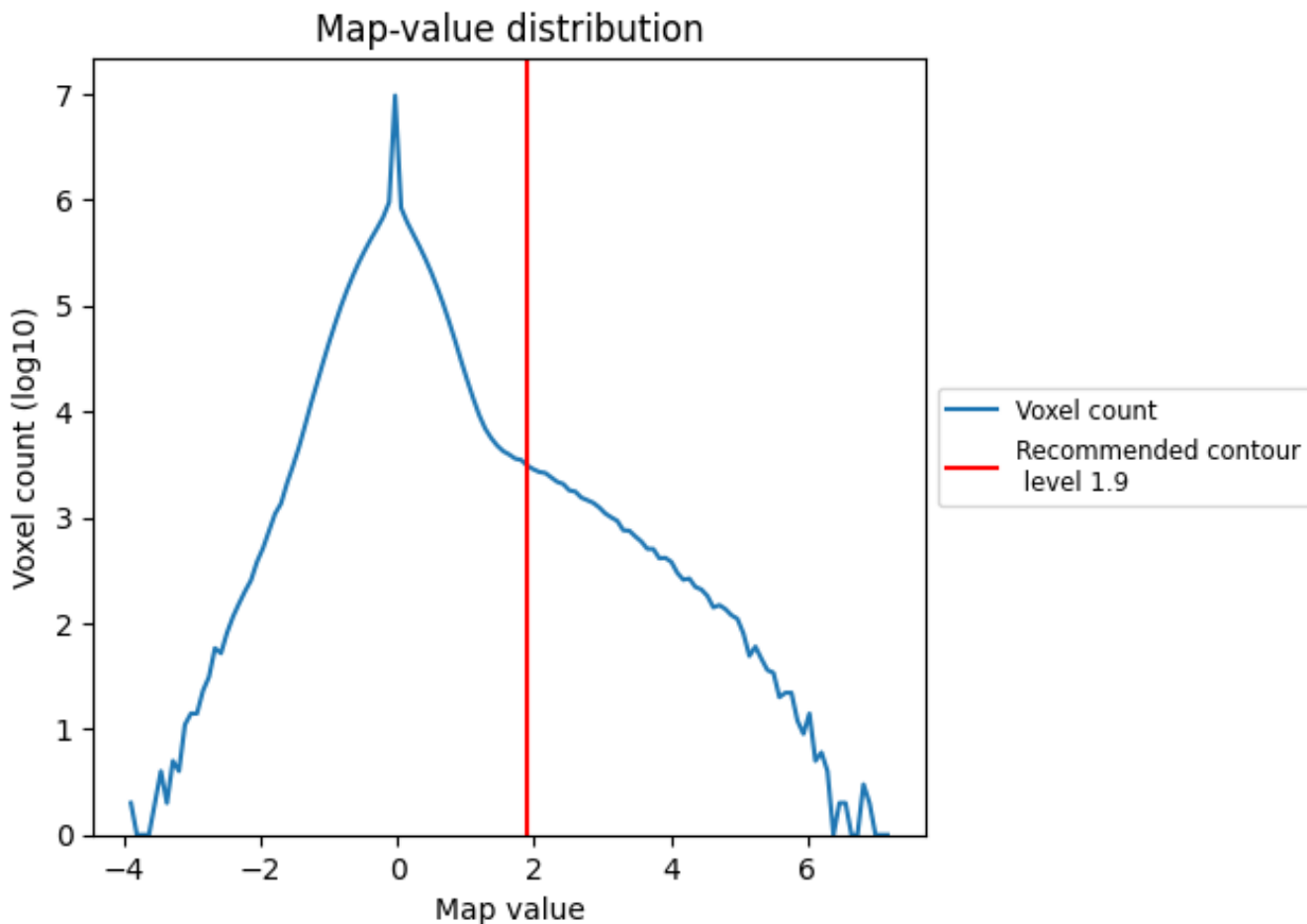
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

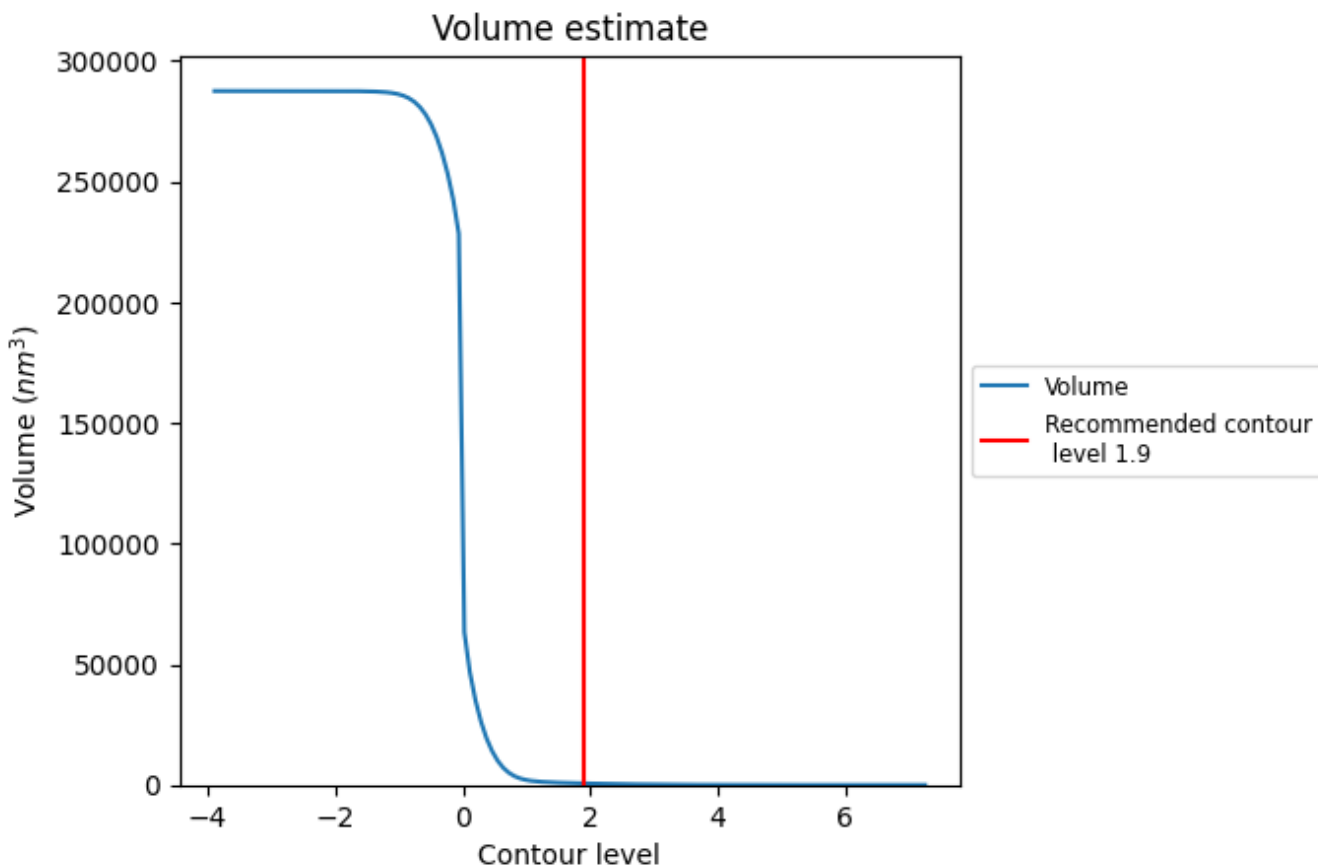
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

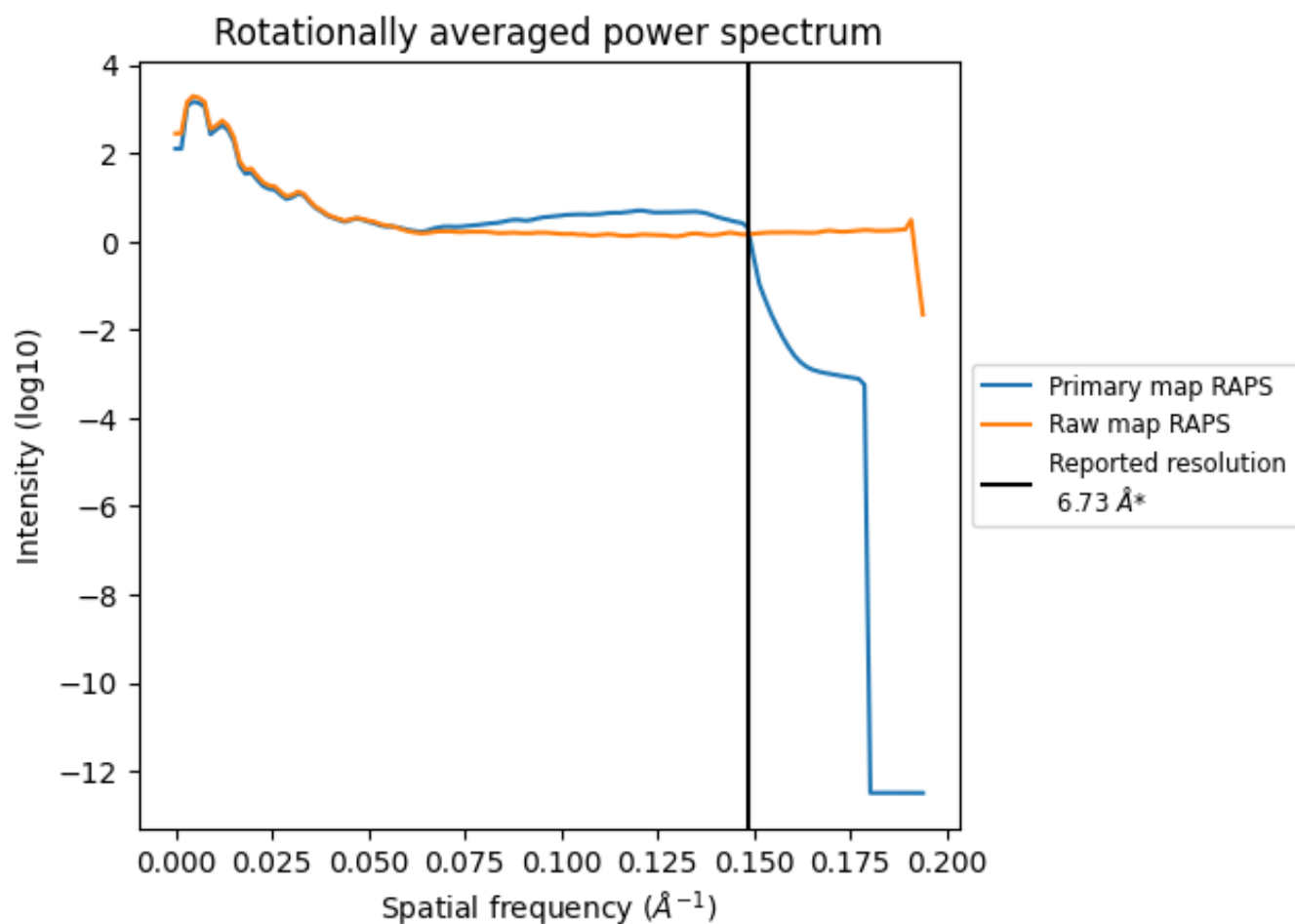
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 643 nm<sup>3</sup>; this corresponds to an approximate mass of 581 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

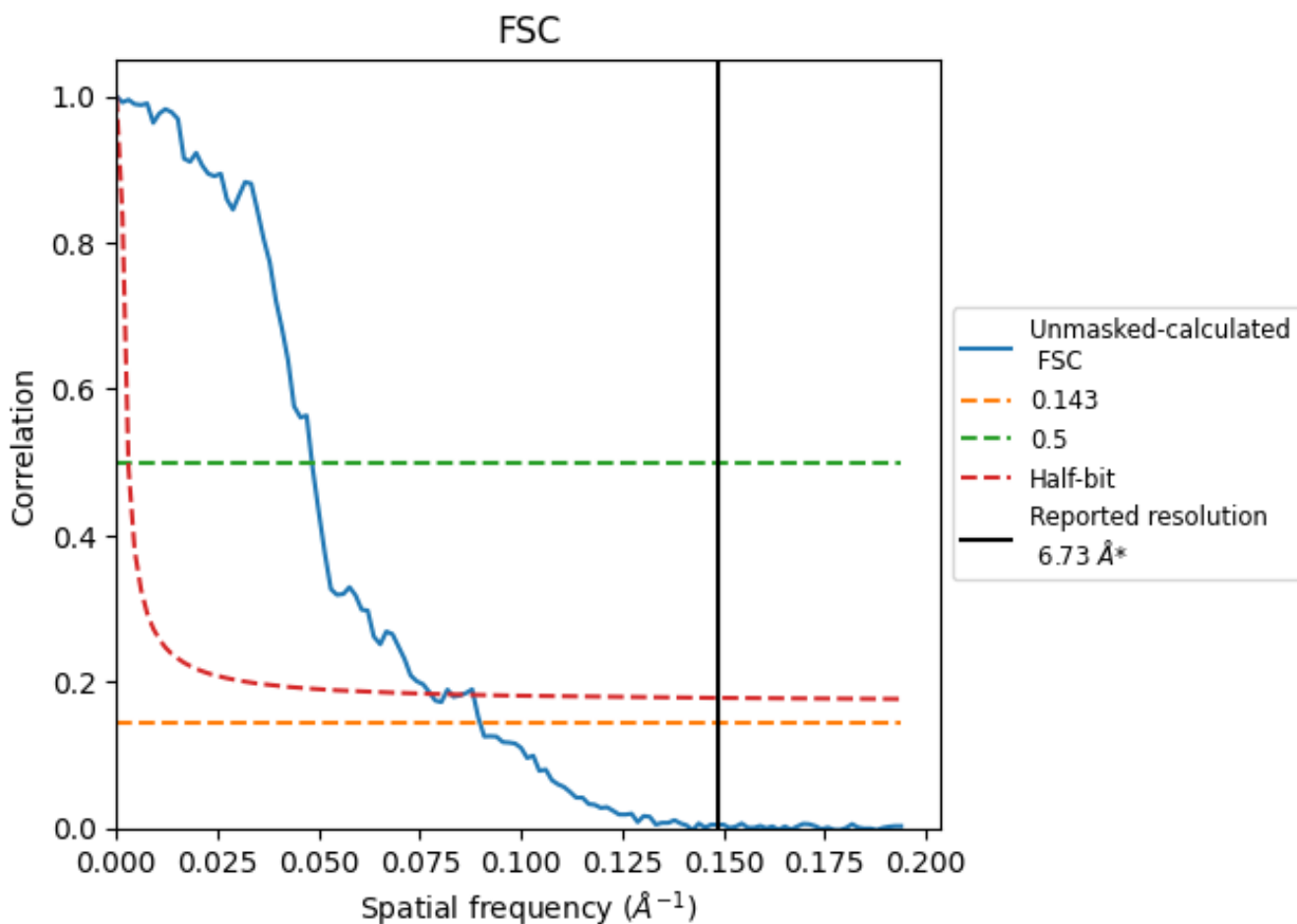


\*Reported resolution corresponds to spatial frequency of 0.149 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

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

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.149 Å<sup>-1</sup>



## 8.2 Resolution estimates [i](#)

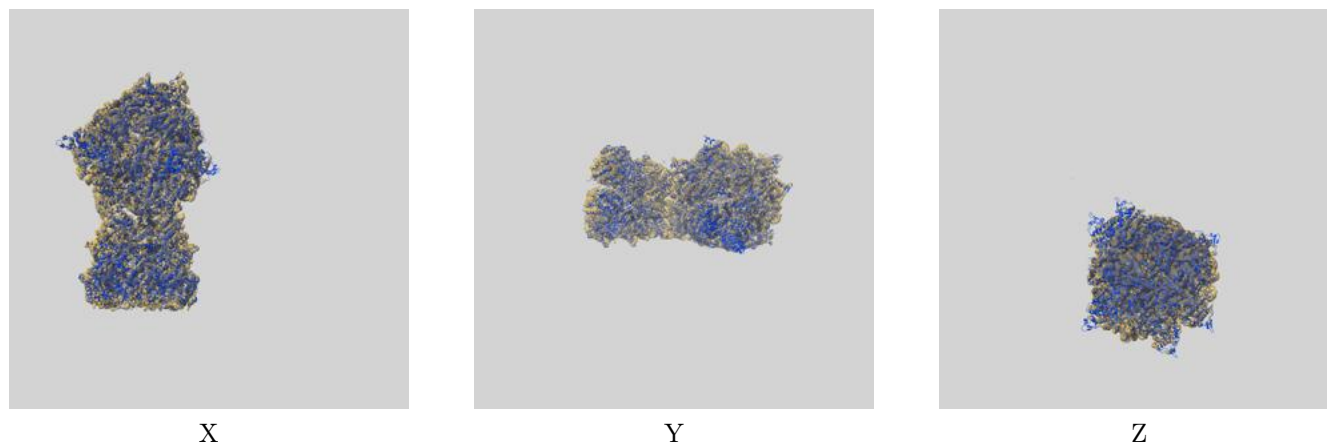
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.73	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	11.12	20.70	12.89

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 11.12 differs from the reported value 6.73 by more than 10 %

## 9 Map-model fit [i](#)

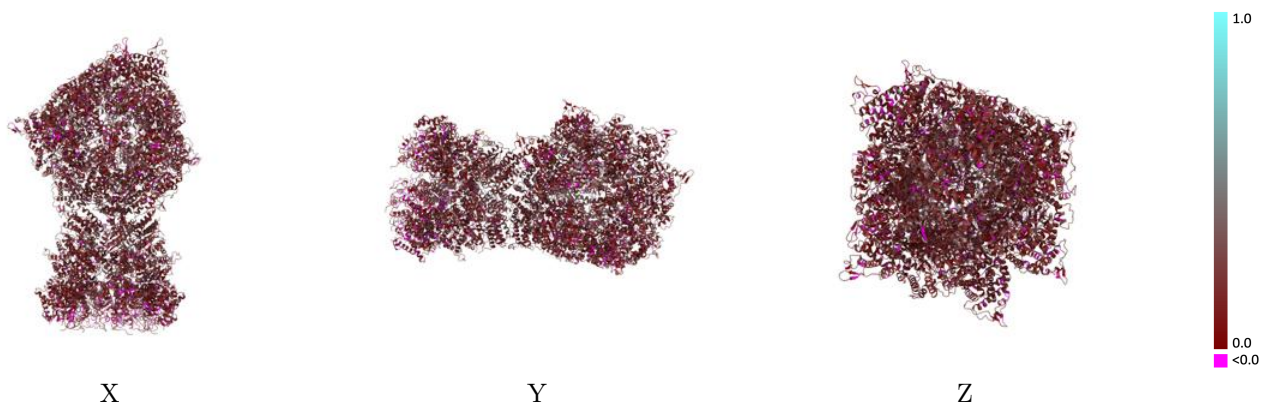
This section contains information regarding the fit between EMDB map EMD-29328 and PDB model 8FNW. Per-residue inclusion information can be found in section [3](#) on page [8](#).

### 9.1 Map-model overlay [i](#)



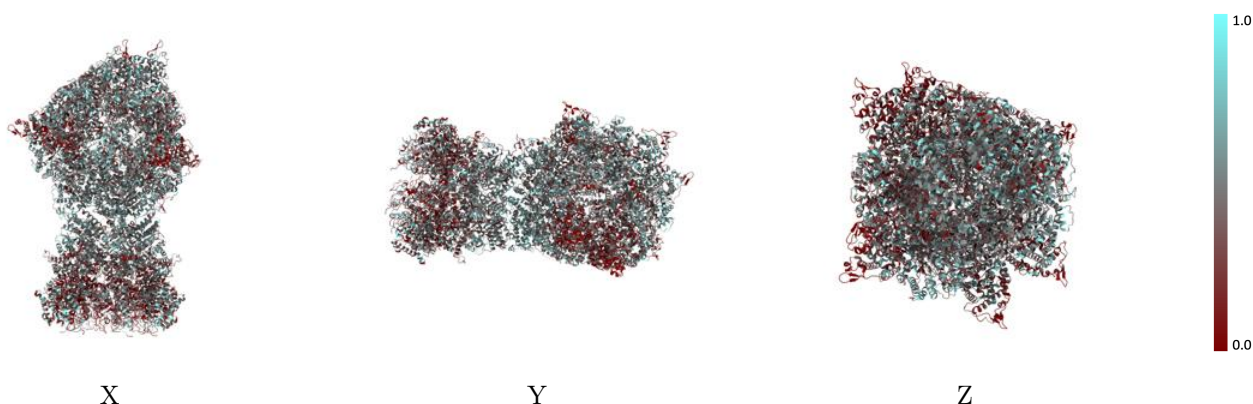
The images above show the 3D surface view of the map at the recommended contour level 1.9 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



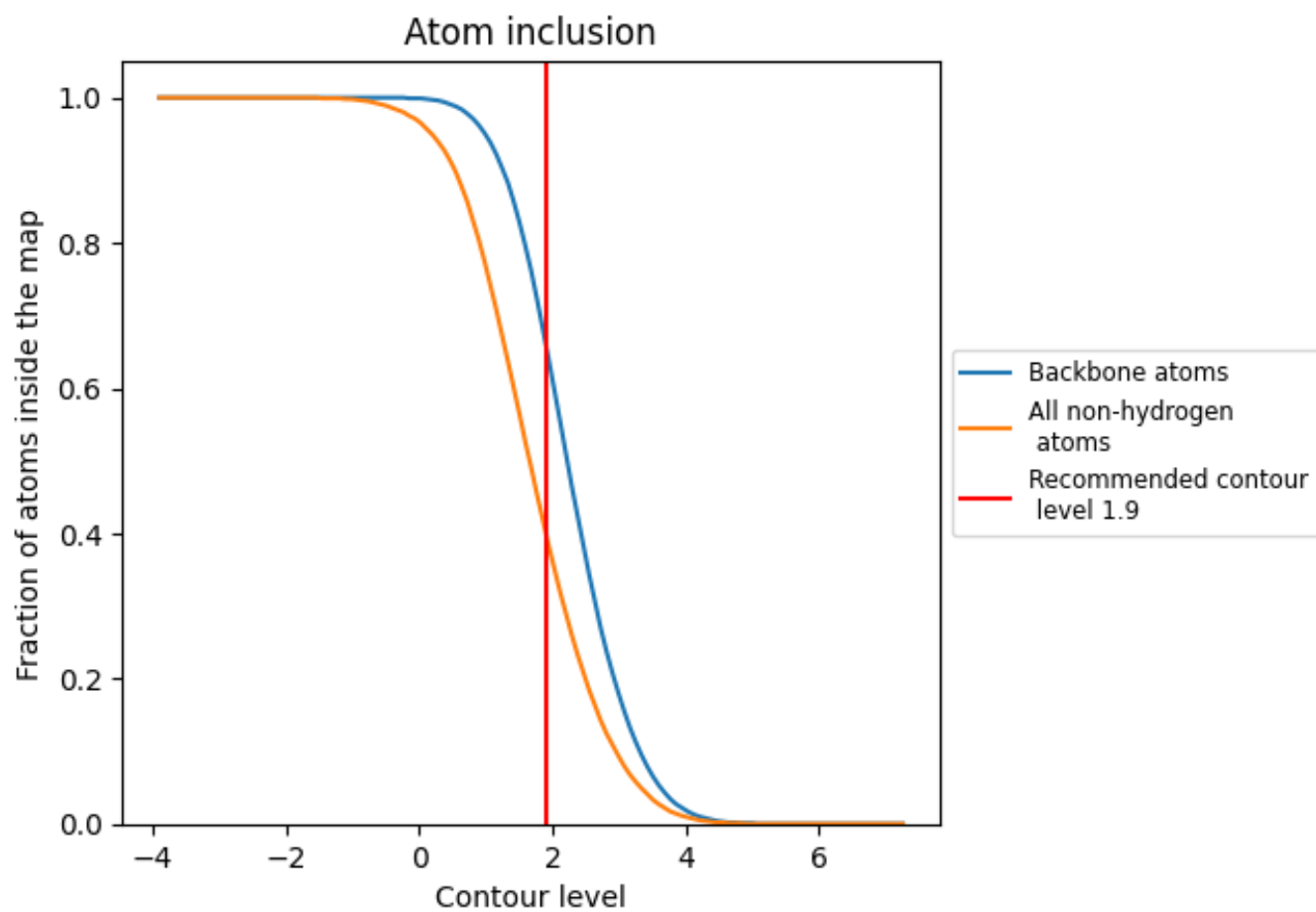
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.9).









































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 66% of all backbone atoms, 40% 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 (1.9) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4000	 0.1870
A	 0.3030	 0.1790
B	 0.3440	 0.1840
C	 0.5370	 0.1950
D	 0.5220	 0.2000
E	 0.3900	 0.1880
F	 0.4130	 0.1900
G	 0.4080	 0.1880
H	 0.4500	 0.1930
I	 0.4540	 0.1920
J	 0.4250	 0.1920
K	 0.4540	 0.1920
L	 0.3170	 0.1890
M	 0.3820	 0.1870
N	 0.3940	 0.1850
O	 0.3420	 0.1760
P	 0.3700	 0.1820
Q	 0.3830	 0.1820
R	 0.3470	 0.1820
S	 0.3680	 0.1830

