



Full wwPDB X-ray Structure Validation Report ⓘ

May 21, 2020 – 10:52 pm BST

PDB ID : 3K70
Title : Crystal structure of the complete initiation complex of RecBCD
Authors : Saikrishnan, K.; Wigley, D.B.
Deposited on : 2009-10-11
Resolution : 3.59 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

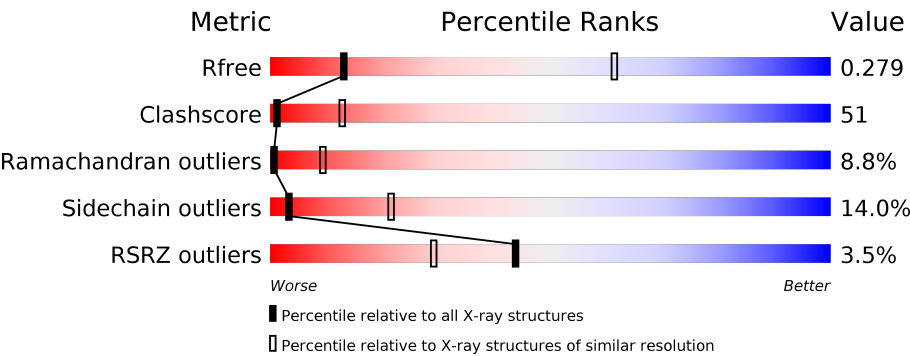
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.59 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

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

Mol	Chain	Length	Quality of chain
1	B	1180	
1	E	1180	
2	C	1122	
2	F	1122	
3	D	608	
3	G	608	

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Mol	Chain	Length	Quality of chain
4	X	51	
4	Y	51	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	5IU	X	1	-	-	-	X
4	5IU	X	2	-	-	X	-
4	5IU	X	3	-	-	X	-
4	5IU	X	46	-	-	X	-
4	5IU	Y	1	-	-	-	X
4	5IU	Y	2	-	-	X	X
4	5IU	Y	3	-	-	X	X
4	5IU	Y	4	-	-	-	X
4	5IU	Y	46	-	-	X	-
4	5IU	Y	5	-	-	-	X
4	5IU	Y	7	-	-	X	-
4	5IU	Y	9	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 46932 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Exodeoxyribonuclease V beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	1155	Total	C	N	O	S	0	0	0
			9236	5823	1638	1736	39			
1	E	1155	Total	C	N	O	S	0	0	0
			9236	5823	1638	1736	39			

- Molecule 2 is a protein called Exodeoxyribonuclease V gamma chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1121	Total	C	N	O	S	0	0	0
			9078	5783	1568	1684	43			
2	F	1121	Total	C	N	O	S	0	0	0
			9078	5783	1568	1684	43			

- Molecule 3 is a protein called Exodeoxyribonuclease V alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	547	Total	C	N	O	S	0	0	0
			4216	2631	771	795	19			
3	G	547	Total	C	N	O	S	0	0	0
			4216	2631	771	795	19			

- Molecule 4 is a DNA chain called DNA (46-MER).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
4	X	46	Total	C	I	N	O	P	0	0	0
			935	442	9	164	276	44			
4	Y	46	Total	C	I	N	O	P	0	0	0
			935	442	9	164	276	44			

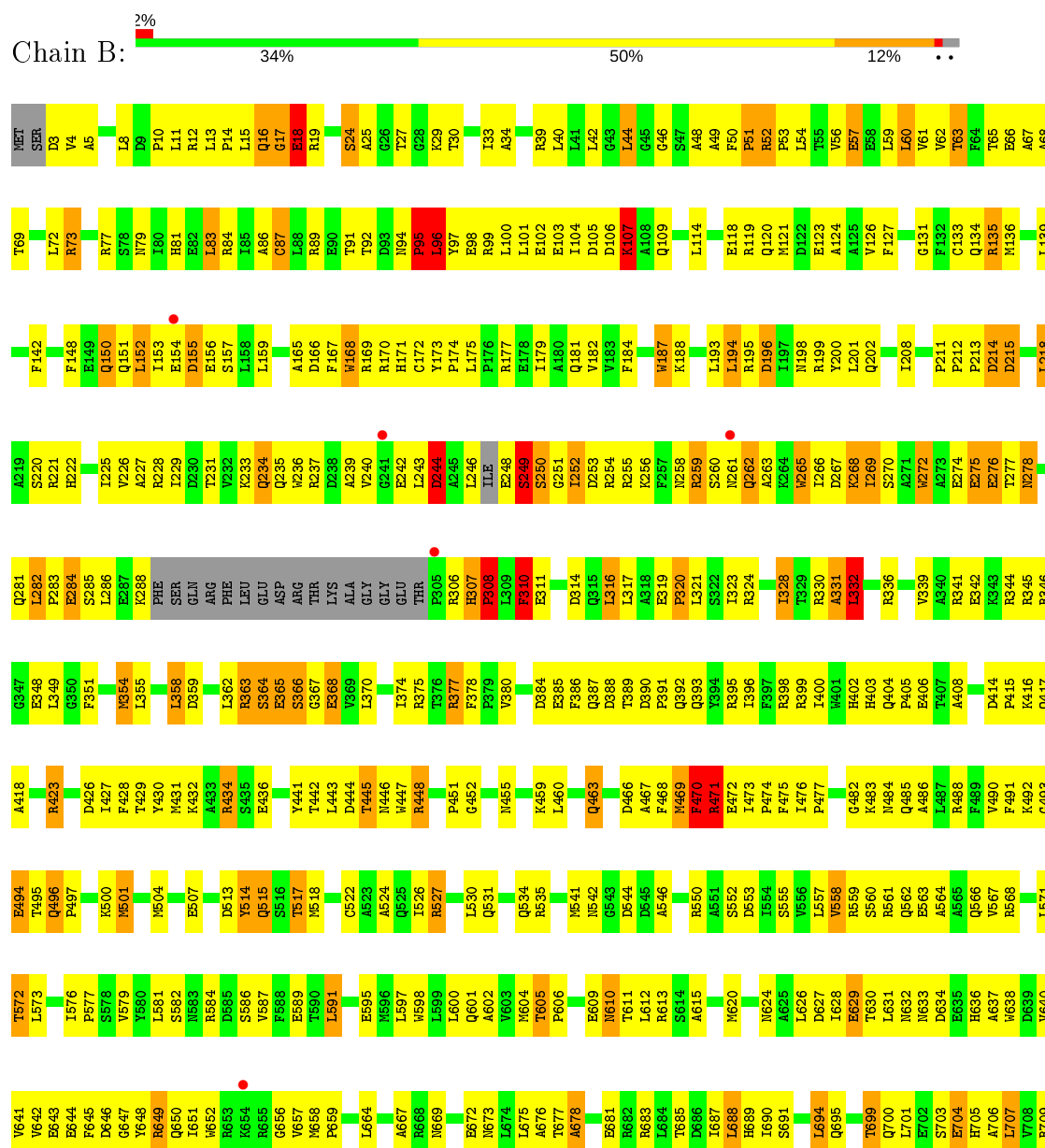
- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

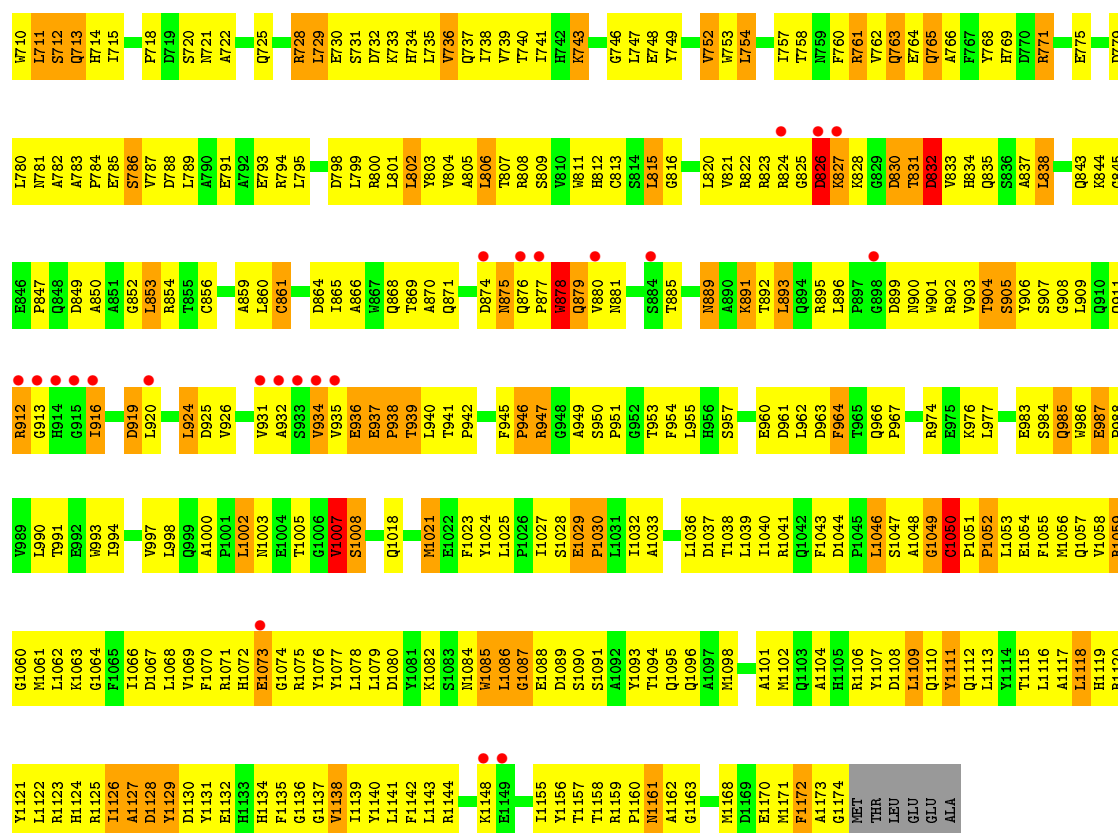
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total 1	Ca 1	0	0
5	E	1	Total 1	Ca 1	0	0

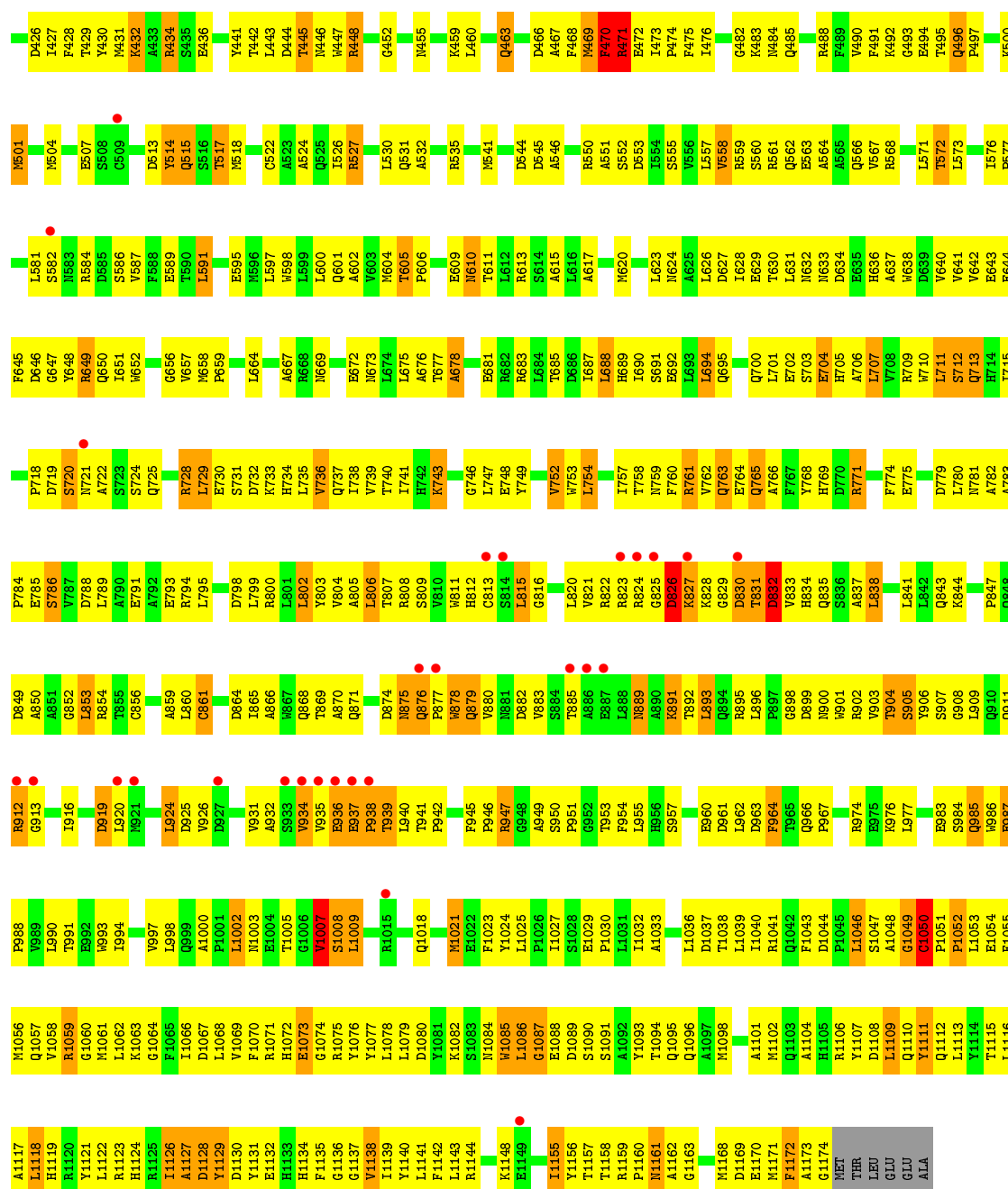
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

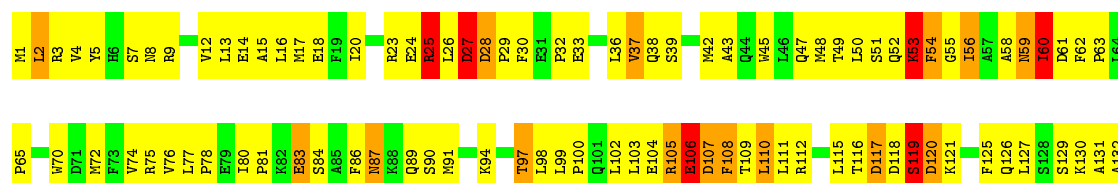
• Molecule 1: Exodeoxyribonuclease V beta chain

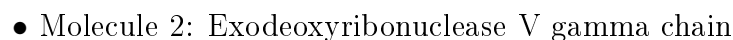






● Molecule 2: Exodeoxyribonuclease V gamma chain

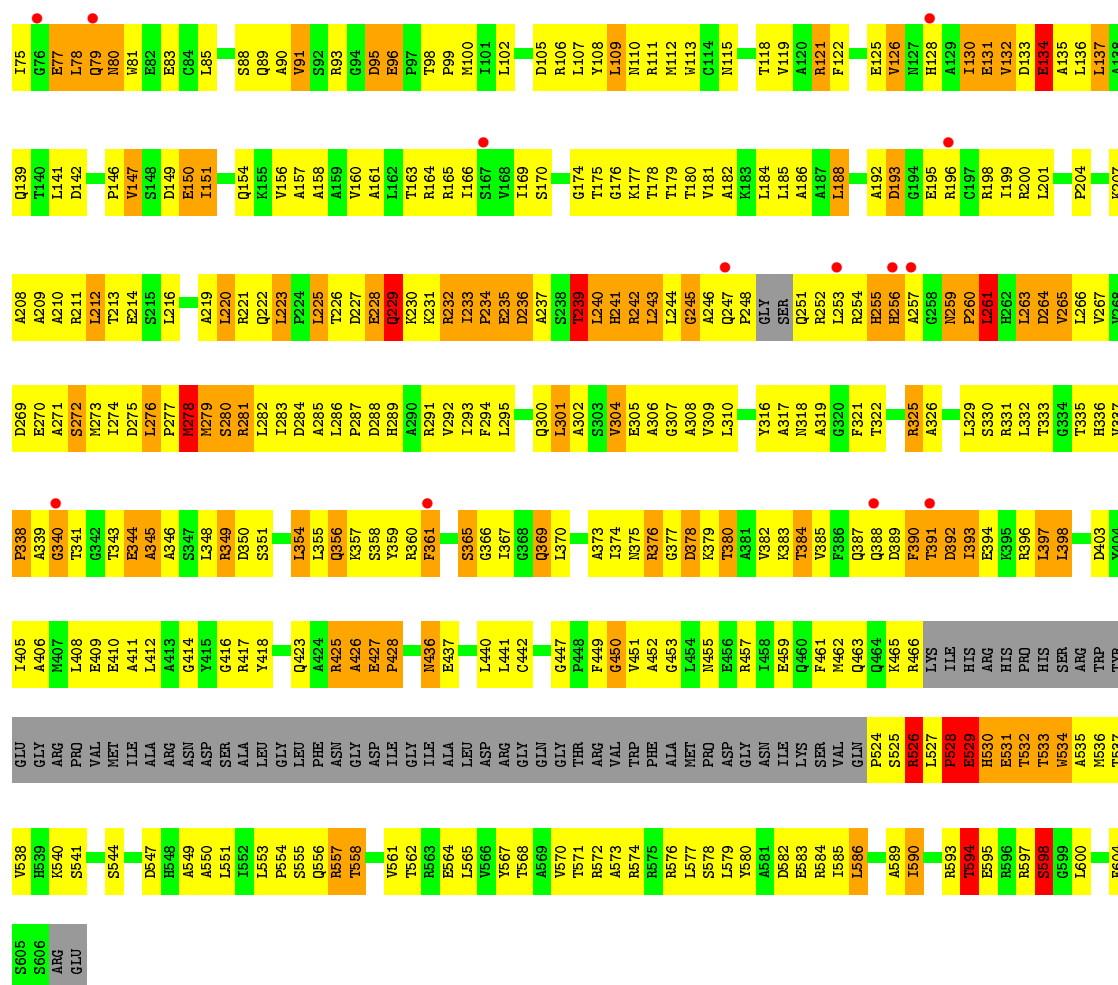




R1007	Q939	R856	R703	Y628	Y550	L479	V410	E346	F277	R210	P143	I68	M1
F1008	S940	F857	G704	G629	D851	R482	M411	M347	R278	V211	D144	W70	L2
P1009	N941	T859	D705	A631	E552	F483	D630	R348	D279	F212	R348	D71	R3
P1010	E942	T859	R708	A631	E552	F483	V412	A349	S280	T213	W146	W71	V4
L1011	I943	D861	R709	V632	L556	I485	I415	G352	N282	P220	W149	V74	Y5
A1012	I945	S862	R712	L634	I557	I486	Y418	V353	A283	P221	V155	R75	S7
A1013	A946	S862	R713	S635	A558	I487	F421	N354	A283	V222	V155	R76	M8
E1014	A947	D866	L714	L636	E559	E488	I422	I355	G284	Y223	E156	L77	R9
Q1015	I948	D866	L715	L636	V561	E489	F421	E356	L286	L224	E156	L78	
L1016	I948	D866	L716	L641	L567	L490	V425	E357	F287	Q225	G159	E79	V12
L1017	Q951	B868	F716	R644	L568	R494	F426	F358	N288	Q228	E160	I80	V13
L1018	I952	B868	L717	L644	L568	R494	G427	E359	S289	A229	A161	E81	E14
Y1019	T953	F870	E718	L645	M569		S428	R360	D290	I230	Q162	P81	A15
L1020	G954	B871		D646	Q570	I502	A429	N363	E292	W164	A163	E82	E16
S1021	W955	L872	I721		L571	R503	P430	R364	E292	Q293	A163	E83	M17
Q1022	L956	L872	Q724	Q652	N572	W504	P430	R364	Q293	Q293	Q165	A85	E18
	L956	L872	Q725	P654	I573	G505	A431	R365	D294	I234	Q166	F86	F19
E1025	P957	B877	Q726	L655	W574	I506	D432	P366	V295	P167	P167	N87	I20
G1026	Q958	Y878	R726	L655	R575	D507	R433	L367	Q296	I236	L168		
G1026	Y959	Y879	R727	L655	R575	D508	Y434	D368	N297	I237	W169		
R1028	Q960	Y880	L727	A656	L578	D509	L435	P369	S302	L238	K170	S90	R23
E1029	D962	N881	Y728	P657	A579	N510	L435	L370	W303	L239	A171	K94	E24
G963	G963	D883	S730	G657	Q580	V511	S440	S372	G304	L172	L172	T97	L26
M1031	L964	L884	Y731	L661	E581	R512	D441	S372	G304	T241	V173	D27	D27
S1032	L965	L885	I732	I661	R582	R512	R442	S373	W305	I242	E174	D28	D28
A1033	R966		G733	C662	P583	I516	R445	I374	L306	F243	E174	L88	P29
P1034	Y967		R734	L664	P584	P517	Q446	G307	G307	C244	T176	L99	P29
L1035	R968		S735	L664	L584	A518	Q446	F376	R308	R245	H177	P100	F30
L1036	E969		I736		L595	T519	S447	H377	D309	Y246	Q101	Q101	E31
V1037	S970		Q737		L595	G520	R448	V378	Y310	V247	L102	L102	E32
L1038	L971		R738		F598	Q821	F449		I311	W248	L103	L103	E33
P1039	L972		S745		F599	R522	V450	P382	Y312	I249	G180	E104	
S1040	S973		P744		D593	T523	L451	Q383	I313	C249	Q181	R105	L36
Y974	Y974		G746		M594	W524	A452	R384	P182	D251	P182	R106	V37
G1042	A975		V746		L595	R525	A453	E385	W184	R252	F108	D107	Q38
G1043	Q976		L747		L595	R525	F454	V386	D316	D263	W185	T109	M42
			L748		F598	G527	I455	E387	E313	P254		L110	
			V748		F599	L528	S456	V388	S319	A256	N188	L111	W45
			L749		L600	T529	L457	L389	S320	Y256	L189	R112	
			E750		P601	R530	L458	H390	Q321	L257	Y190	T116	M48
			L751		D602	M531	S459	D391	E322	A258	Q191	T116	L50
			D752		A603	L532	L460	R392	L323	L259	R192	D117	S51
			D753		E604	L532	P461	L393		L260	F193	D118	Q52
			Y754		T605	G534	R464	L394	F326	L261	I194	S119	R53
			I755		E605	Y535	F465	A395		T262	E195	D120	F54
			G756		A607	A536	V465	M396	R263	Q264	L196	K121	G55
			Q757		A608	M537	V466	L397	N333	R265	L197	I56	I56
					M609	E538	S467	E398	L334	R266	E198	Q126	A57
			Y760		T610	S539	E468	E399	L335	S199	S199	L127	A57
			L761		L611	A540	D469	D400	H336	A200	A200	L127	A58
					Q615	Q541	V470	P401	N337	T201	T201	K130	M59
			D764		L615	G542	L471	T402	I338	T202	T202	D61	D61
			E765		L696	E543	A472	L403	Q339	C203	C203	F62	F62
			A766		M697	Q645	L473	T404	S340	P204	P204	Q137	P63
			R767		I620	Q645	L474	P405	D341	P205	P205	Y138	P63
			I768		I620	S546	D475	R406	I342	G206	G206	L139	L64
			Q769		G625	V547	V476	D407	E273	L274	L274	V140	P65
			R770		A626	L548	P477	I408	E344	P275	P275	Y141	P65
			E771		Q627	P549	V478	I409	L345	L276	S209	R142	F68

L579	PRO	M455	T391	L329	V265	T205	A135	S73	M1
Y580	GLY	E456	D392	S330	L266	G206	L136	E74	K2
A581	ASP	R457	I393	R331	V267	R207	L137	I75	L3
D582	ASN	I458	E394	L332		A208	A138	G76	Q4
E583	ILE	E459	K395	T333	E270	A209	Q139	E77	K5
R584	LYS	Q460	R396	G334	I271	A210	T140	L78	Q6
I585	SER	F461	L397	H336	S272	R211	L141	Q79	Q6
L586	VAL	M462	L398	H336	R273	R212	L142	N80	L7
	GLN	Q463	Q399	V337	I274	T213			
		Q464	S400	P338	D275	E214			
I590	S225	K465	G401	A339	L276	S245	P146	E82	A10
R593	E826	R466	E402	G340	F277	R216	V147	E83	V11
	LYS	D403	T341		R278	G217	S148	C84	E12
E595	ILE	I404	G342	L279	R279	R218	D149	L85	H13
R596	E829	I405	T343	S280	R281	A219	I151		Q15
R597	HIS	A406	E344	R281	L282	R221	Q154	S88	R17
E601	ARG	M407	A345	L282	I283	Q222	R155	Q89	P18
T602	PRO	L408	A346	A346	I284	R223	V156	A90	L19
		E409	S347		A285	F224	A157	N91	D20
M603	TRP	A411	R348	R349	L286	R225	A158	S92	V21
	ARG	A412	D350	D350	P287	T226	A159	G94	
L603	M336	L413	S351	S351	D288	D227	V160	D95	Q22
	THR	G414			E289	E228	A161	E96	F23
E605	GLY	I415			A290	Q229	L162	P97	
T606	GLU	G416	L354	L354	R291	R230	T163	T98	V27
	ARG	R417	Q356	Q356	V292	R231	R164	P99	A28
	PRO	V418	K357	K357	I293	R232	R165	M100	G29
	VAL	L419	S358	S358	F294	R233	I166	I101	D30
	MET				L295	P234		L102	E31
	ILE	Q423	Y359	Y359	G296	E235	I169		H32
D647	ARG	A424	F361	F361	D297	D236	S170	D105	P33
A649	ALA	R425	G362	G362	R298	A237		A34	A34
E650	ASN	A426	S363	S363	L299	S238	G174	R106	V35
L651	ASP	E427	D564	D564	Q300	T239	T175	L107	T36
I652	SER	P428	S365	S365	L301	L240	G176	Y108	L37
L653	ALA	D429	G366	G366	A302	R241	R110	L109	
P654	LEU	L430	I367	I367	S303	R242	R177	R111	L41
S655	GLY	L431	G368	G368	V304	L243	T178	M112	H44
Q656	LEU	I432	Q369	Q369	E305	L244	T179	W113	
	PHE		L370	L370	A306	G245	T180	G114	V51
R657	ASN				G307	A246	V181	C52	C52
T658	GLY	M436			A308	A182	E116	E116	L53
	ASP	E437	A373	A373	V309	Q247	R183	R117	
V661	ILE	Y438	I374	I374	G310	R248	L184	T118	S56
E663	GLY	Q439	R375	R375	G311	GLY	L185	V119	R57
E664	ILE	L440	N376	N376		SER	A120	A120	L58
L665	ALA	L441	G377	G377	D312	Q251	L188	R121	F59
	LEU	C442	D378	D378	I313	R252		E121	
	ASP	A443	K379	K379	G314	L253		F122	N60
Y667	ARG	L444	T380	T380		R254	A192	T123	M61
A669	GLY	R445	A381	A381	A317	R255	G194	E62	E62
V670	GLN	E446	V382	V382	K318	R256	E195	A125	A63
T671	GLY	G447	K383	K383	A319	A257	R196		

Category	Frequency
M1	1
K2	1
R3	1
L4	1
O4	1
K5	1
Q6	1
L7	1
A10	1
V11	1
K14	1
Q15	1
L16	1
R17	1
P18	1
L19	1
D20	1
V21	1
V27	1
A28	1
G29	1
D30	1
E31	1
H32	1
P33	1
A34	1
V35	1
T36	1
L37	1
L41	1
H44	1
H50	1
V51	1
C52	1
L53	1
S56	1
H57	1
L58	1
E59	1
N60	1
H61	1
B62	1
A63	1
S64	1
H65	1
P66	1
L67	1
L68	1
A69	1
T70	1
C71	1
V72	1
S73	1
W74	1



• Molecule 4: DNA (46-MER)



• Molecule 4: DNA (46-MER)



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	133.80Å 192.90Å 334.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 3.59 29.92 – 3.60	Depositor EDS
% Data completeness (in resolution range)	96.5 (30.00-3.59) 96.4 (29.92-3.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.92 (at 3.56Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.248 , 0.296 0.239 , 0.279	Depositor DCC
R_{free} test set	4709 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	107.4	Xtriage
Anisotropy	0.193	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 93.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	46932	wwPDB-VP
Average B, all atoms (Å ²)	121.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.99% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, 5IU

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	B	0.29	0/9432	0.67	7/12795 (0.1%)
1	E	0.29	0/9432	0.67	7/12795 (0.1%)
2	C	0.29	0/9305	0.65	3/12644 (0.0%)
2	F	0.29	0/9305	0.64	3/12644 (0.0%)
3	D	0.36	0/4281	0.78	10/5796 (0.2%)
3	G	0.32	0/4281	0.75	9/5796 (0.2%)
4	X	0.45	0/847	0.83	1/1293 (0.1%)
4	Y	0.37	0/847	0.80	1/1293 (0.1%)
All	All	0.31	0/47730	0.68	41/65056 (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
4	Y	0	1

There are no bond length outliers.

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	10	DA	OP1-P-O3'	8.64	124.22	105.20
3	D	256	HIS	N-CA-C	7.82	132.12	111.00
3	D	239	THR	N-CA-C	-6.73	92.82	111.00
1	B	878	TRP	N-CA-C	-6.66	93.03	111.00
3	G	239	THR	N-CA-C	-6.60	93.18	111.00
3	D	255	HIS	N-CA-C	6.52	128.60	111.00
1	B	308	PRO	N-CA-C	6.46	128.88	112.10
2	C	1083	GLY	N-CA-C	6.42	129.15	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	1083	GLY	N-CA-C	6.42	129.14	113.10
1	B	244	ASP	N-CA-C	6.42	128.32	111.00
1	E	244	ASP	N-CA-C	6.40	128.28	111.00
3	D	261	LEU	CB-CG-CD2	-6.37	100.17	111.00
3	G	261	LEU	CB-CG-CD2	-6.23	100.40	111.00
1	E	308	PRO	N-CA-C	6.22	128.27	112.10
3	D	236	ASP	CA-C-N	-6.15	103.68	117.20
3	G	236	ASP	CA-C-N	-6.10	103.77	117.20
1	E	1049	GLY	N-CA-C	-5.78	98.66	113.10
1	B	1049	GLY	N-CA-C	-5.78	98.66	113.10
3	D	109	LEU	N-CA-C	-5.70	95.62	111.00
1	B	913	GLY	N-CA-C	-5.59	99.11	113.10
1	E	913	GLY	N-CA-C	-5.57	99.17	113.10
3	D	531	GLU	N-CA-C	-5.54	96.06	111.00
3	G	109	LEU	N-CA-C	-5.54	96.06	111.00
3	G	531	GLU	N-CA-C	-5.44	96.30	111.00
1	B	1050	CYS	N-CA-C	5.44	125.68	111.00
2	F	861	ASP	N-CA-C	-5.40	96.42	111.00
1	E	1050	CYS	N-CA-C	5.39	125.55	111.00
1	E	332	LEU	CA-CB-CG	5.36	127.62	115.30
3	D	529	GLU	N-CA-C	-5.35	96.55	111.00
2	C	271	ASP	N-CA-C	5.35	125.44	111.00
2	C	861	ASP	N-CA-C	-5.34	96.59	111.00
2	F	271	ASP	N-CA-C	5.33	125.40	111.00
4	Y	10	DA	OP2-P-O3'	5.31	116.88	105.20
3	G	236	ASP	N-CA-C	5.25	125.17	111.00
3	D	236	ASP	N-CA-C	5.21	125.06	111.00
1	B	332	LEU	CA-CB-CG	5.20	127.26	115.30
3	G	528	PRO	N-CA-C	5.13	125.45	112.10
3	G	529	GLU	N-CA-C	-5.00	97.48	111.00
3	D	231	LYS	N-CA-C	-5.00	97.49	111.00
1	E	241	GLY	N-CA-C	-5.00	100.59	113.10
3	G	231	LYS	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	Y	10	DA	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	9236	0	9083	957	0
1	E	9236	0	9083	915	0
2	C	9078	0	8877	849	0
2	F	9078	0	8877	820	0
3	D	4216	0	4261	580	0
3	G	4216	0	4261	568	0
4	X	935	0	498	115	0
4	Y	935	0	498	114	0
5	B	1	0	0	0	0
5	E	1	0	0	0	0
All	All	46932	0	45438	4677	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 51.

All (4677) 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)
3:D:205:THR:HA	4:X:3:5IU:OP1	1.39	1.21
1:B:442:THR:HG21	1:B:476:ILE:HD11	1.24	1.17
4:X:22:DG:C2'	4:X:23:DC:H5''	1.75	1.16
3:D:65:HIS:HB3	3:D:66:PRO:HD2	1.20	1.15
1:E:442:THR:HG21	1:E:476:ILE:HD11	1.28	1.14
4:Y:22:DG:C2'	4:Y:23:DC:H5''	1.76	1.14
4:X:22:DG:H2''	4:X:23:DC:H5''	1.19	1.14
1:B:1051:PRO:N	1:B:1052:PRO:HD2	1.63	1.14
4:X:7:5IU:H3'	4:X:8:DC:H5'	1.26	1.13
3:G:118:THR:HG22	3:G:283:ILE:HD11	1.19	1.12
4:Y:7:5IU:H3'	4:Y:8:DC:H5'	1.27	1.12
3:D:259:ASN:HB3	3:D:260:PRO:HD2	1.17	1.12
3:G:65:HIS:HB3	3:G:66:PRO:HD2	1.19	1.11
3:D:243:LEU:HG	3:D:244:LEU:H	1.01	1.10
4:Y:22:DG:H2''	4:Y:23:DC:H5''	1.19	1.09
3:G:259:ASN:HB3	3:G:260:PRO:HD2	1.12	1.09
1:E:1051:PRO:N	1:E:1052:PRO:HD2	1.63	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:243:LEU:HG	3:G:244:LEU:H	1.11	1.09
1:B:877:PRO:HB2	1:B:879:GLN:HG3	1.12	1.09
3:D:217:GLY:O	3:D:221:ARG:HG3	1.51	1.08
3:G:65:HIS:HB3	3:G:66:PRO:CD	1.82	1.07
1:B:881:ASN:HD22	1:E:883:VAL:HG22	1.18	1.07
3:D:65:HIS:HB3	3:D:66:PRO:CD	1.82	1.07
3:D:118:THR:HG22	3:D:283:ILE:HD11	1.07	1.07
4:X:11:DA:C2'	4:X:12:DT:H5''	1.86	1.06
4:X:46:5IU:H2''	4:X:47:DA:H5'	1.33	1.05
2:C:1055:ASP:HB2	2:C:1118:ARG:HH22	1.12	1.05
2:C:38:GLN:HE21	2:C:667:MET:HG3	1.17	1.05
4:Y:11:DA:C2'	4:Y:12:DT:H5''	1.86	1.05
4:Y:46:5IU:H2''	4:Y:47:DA:H5'	1.33	1.05
1:E:877:PRO:HB2	1:E:879:GLN:HG3	1.35	1.05
1:B:564:ALA:HA	1:B:738:ILE:HD11	1.38	1.04
4:Y:46:5IU:H2''	4:Y:47:DA:C5'	1.88	1.04
3:G:243:LEU:HG	3:G:244:LEU:N	1.69	1.03
2:F:363:ASN:ND2	2:F:363:ASN:H	1.55	1.03
4:Y:14:DC:H2''	4:Y:15:DG:H5''	1.41	1.03
1:B:159:LEU:HD12	1:B:339:VAL:HG13	1.39	1.03
3:D:216:LEU:O	3:D:220:LEU:HB2	1.59	1.03
3:D:244:LEU:HD21	3:D:261:LEU:HG	1.38	1.02
3:D:240:LEU:HG	3:D:278:MET:SD	1.98	1.02
3:D:243:LEU:HG	3:D:244:LEU:N	1.68	1.02
1:E:564:ALA:HA	1:E:738:ILE:HD11	1.38	1.02
1:B:527:ARG:HB3	1:B:576:ILE:HD11	1.42	1.02
1:E:159:LEU:HD12	1:E:339:VAL:HG13	1.42	1.02
3:G:243:LEU:CD1	3:G:261:LEU:HD21	1.90	1.02
2:C:504:TRP:HH2	2:C:516:LEU:HD13	1.21	1.02
3:G:216:LEU:O	3:G:220:LEU:HB2	1.59	1.02
1:E:286:LEU:HD13	1:E:306:ARG:HD3	1.38	1.01
3:D:243:LEU:HD11	3:D:244:LEU:HG	1.37	1.01
4:X:46:5IU:H2''	4:X:47:DA:C5'	1.89	1.01
2:F:363:ASN:N	2:F:363:ASN:HD22	1.55	1.01
1:B:286:LEU:HD13	1:B:306:ARG:HD3	1.39	1.01
1:E:947:ARG:HG3	1:E:1086:LEU:HD11	1.39	1.00
4:X:14:DC:H2''	4:X:15:DG:H5''	1.39	1.00
3:D:243:LEU:CD1	3:D:261:LEU:HD21	1.91	1.00
2:F:38:GLN:HE21	2:F:667:MET:HG3	1.24	1.00
1:B:947:ARG:HG3	1:B:1086:LEU:HD11	1.38	1.00
2:C:1012:ALA:H	2:C:1015:GLN:HE21	1.08	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:248:PRO:HD3	4:Y:4:5IU:H1'	1.43	0.99
2:C:363:ASN:H	2:C:363:ASN:ND2	1.58	0.99
3:D:130:ILE:HD12	3:D:130:ILE:H	1.25	0.99
1:E:527:ARG:HB3	1:E:576:ILE:HD11	1.44	0.99
2:F:347:ASN:ND2	2:F:349:ALA:H	1.61	0.99
4:Y:11:DA:H2''	4:Y:12:DT:H5''	0.99	0.99
3:G:200:ARG:HB2	3:G:263:LEU:HD23	1.45	0.99
2:F:504:TRP:HH2	2:F:516:LEU:HD13	1.22	0.98
2:C:347:ASN:ND2	2:C:349:ALA:H	1.59	0.98
3:D:200:ARG:HB2	3:D:263:LEU:HD23	1.42	0.98
3:G:130:ILE:H	3:G:130:ILE:HD12	1.25	0.98
4:X:11:DA:H2''	4:X:12:DT:C5'	1.94	0.98
2:C:363:ASN:HD22	2:C:363:ASN:N	1.58	0.97
4:Y:3:5IU:H2''	4:Y:4:5IU:H5''	1.43	0.96
2:F:104:GLU:H	2:F:112:ARG:HG3	1.31	0.96
3:G:259:ASN:HB3	3:G:260:PRO:CD	1.92	0.96
4:Y:11:DA:H2''	4:Y:12:DT:C5'	1.94	0.96
1:B:531:GLN:HE21	1:B:879:GLN:HB2	1.31	0.95
4:X:11:DA:H2''	4:X:12:DT:H5''	1.00	0.95
2:C:584:LEU:HD12	2:C:620:ILE:HG23	1.47	0.95
2:F:1055:ASP:HB2	2:F:1118:ARG:HH22	1.30	0.95
1:B:286:LEU:HD22	1:B:306:ARG:HH11	1.30	0.95
4:Y:6:DA:H2'	4:Y:6:DA:N3	1.82	0.95
1:B:877:PRO:CB	1:B:879:GLN:HG3	1.97	0.94
1:E:286:LEU:HD11	1:E:306:ARG:HB3	1.48	0.94
2:F:1012:ALA:H	2:F:1015:GLN:HE21	1.15	0.94
4:X:3:5IU:H2''	4:X:4:5IU:H5''	1.47	0.94
3:D:243:LEU:CD1	3:D:244:LEU:HG	1.97	0.94
3:D:259:ASN:HB3	3:D:260:PRO:CD	1.97	0.94
2:C:77:LEU:HD22	2:C:192:ARG:HD2	1.47	0.94
2:F:971:LEU:HD23	4:Y:10:DA:H5'	1.49	0.94
2:F:850:GLN:HE22	4:Y:7:5IU:HN3	1.13	0.94
2:F:885:LEU:HD12	2:F:969:PRO:HG3	1.46	0.93
3:D:244:LEU:HD21	3:D:261:LEU:CG	1.99	0.93
3:D:460:GLN:HA	3:D:463:GLN:OE1	1.68	0.93
1:E:286:LEU:HD22	1:E:306:ARG:HH11	1.30	0.93
1:E:900:ASN:HD21	1:E:902:ARG:HH21	1.10	0.93
4:X:6:DA:H2'	4:X:6:DA:N3	1.82	0.93
2:C:104:GLU:H	2:C:112:ARG:HG3	1.30	0.93
3:D:367:ILE:N	3:D:393:ILE:HG21	1.82	0.93
1:B:597:LEU:HD12	1:B:715:ILE:HD12	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:LEU:HB3	1:B:399:ARG:HG2	1.47	0.93
3:D:239:THR:HG21	4:X:4:5IU:OP1	1.68	0.93
4:Y:47:DA:H2"	4:Y:48:DG:O5'	1.69	0.93
1:E:752:VAL:HG13	1:E:809:SER:HB3	1.51	0.92
2:C:149:TRP:HE1	2:C:162:GLN:HE21	1.09	0.92
2:F:557:ILE:HD13	2:F:557:ILE:H	1.34	0.92
1:B:598:TRP:CZ2	2:C:857:PHE:HB3	2.04	0.92
2:C:105:ARG:O	2:C:106:GLU:HB3	1.67	0.92
3:G:255:HIS:ND1	3:G:256:HIS:N	2.16	0.92
1:B:900:ASN:HD21	1:B:902:ARG:HH21	1.10	0.92
3:D:115:ASN:HB3	3:D:276:LEU:HD22	1.50	0.92
1:B:1071:ARG:HH22	2:C:29:PRO:HB2	1.33	0.92
1:B:286:LEU:HD11	1:B:306:ARG:HB3	1.50	0.92
2:C:885:LEU:HD12	2:C:969:PRO:HG3	1.48	0.92
1:B:987:GLU:HG3	1:B:988:PRO:HD3	1.52	0.92
2:F:105:ARG:O	2:F:106:GLU:HB3	1.69	0.92
2:F:584:LEU:HD12	2:F:620:ILE:HG23	1.51	0.91
3:D:304:VAL:HG21	3:D:564:GLU:HG2	1.53	0.91
1:B:925:ASP:H	1:B:953:THR:HG22	1.37	0.90
1:B:236:TRP:O	1:B:240:VAL:HG23	1.72	0.90
2:F:228:GLN:HE22	2:F:318:GLU:H	1.19	0.90
3:D:253:LEU:HB3	3:D:255:HIS:CD2	2.06	0.90
1:B:824:ARG:HB2	4:X:16:DA:OP2	1.71	0.90
1:E:236:TRP:O	1:E:240:VAL:HG23	1.71	0.90
2:F:945:LEU:HB2	2:F:952:ILE:HD11	1.53	0.90
3:D:226:THR:O	3:D:228:GLU:N	2.04	0.90
3:D:255:HIS:HB3	3:D:260:PRO:HG2	1.53	0.90
2:F:149:TRP:HE1	2:F:162:GLN:HE21	1.14	0.90
3:G:62:GLU:HA	3:G:65:HIS:HB2	1.52	0.89
1:E:994:ILE:O	1:E:997:VAL:HG12	1.70	0.89
2:C:433:ARG:HH12	2:C:805:GLU:HG2	1.33	0.89
1:B:86:ALA:HB1	1:B:92:THR:OG1	1.72	0.89
1:B:994:ILE:O	1:B:997:VAL:HG12	1.72	0.89
3:D:51:VAL:HG21	3:D:276:LEU:HD12	1.54	0.89
3:D:62:GLU:HA	3:D:65:HIS:HB2	1.54	0.89
1:E:86:ALA:HB1	1:E:92:THR:OG1	1.73	0.89
4:X:12:DT:H2"	4:X:13:DG:H5'	1.55	0.89
1:E:459:LYS:HE2	1:E:860:LEU:HB2	1.53	0.89
2:C:228:GLN:HE22	2:C:318:GLU:H	1.18	0.89
1:B:966:GLN:HB3	1:B:967:PRO:HD2	1.55	0.88
2:F:1037:VAL:HA	2:F:1109:SER:HB3	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:226:THR:O	3:G:228:GLU:N	2.06	0.88
1:E:925:ASP:H	1:E:953:THR:HG22	1.37	0.88
1:B:823:ARG:HG2	1:B:825:GLY:H	1.38	0.88
1:E:823:ARG:HG2	1:E:825:GLY:H	1.35	0.88
4:X:6:DA:H2"	4:X:7:5IU:O5'	1.74	0.88
4:Y:12:DT:H2"	4:Y:13:DG:H5'	1.54	0.88
4:Y:47:DA:H2"	4:Y:48:DG:C5'	2.03	0.88
1:B:752:VAL:HG13	1:B:809:SER:HB3	1.53	0.88
4:X:47:DA:H2"	4:X:48:DG:O5'	1.71	0.88
3:D:17:ARG:HB2	3:D:18:PRO:HD2	1.55	0.88
2:C:482:ARG:O	2:C:482:ARG:HD3	1.74	0.88
1:E:920:LEU:HD11	2:F:448:HIS:CD2	2.09	0.88
2:C:1055:ASP:HB2	2:C:1118:ARG:NH2	1.89	0.87
2:C:828:LEU:HD13	2:C:1028:ARG:HG3	1.55	0.87
1:B:746:GLY:H	1:B:808:ARG:HH12	1.22	0.87
4:X:47:DA:H2"	4:X:48:DG:C5'	2.04	0.87
1:B:459:LYS:HE2	1:B:860:LEU:HB2	1.54	0.87
3:D:345:ALA:HB3	3:D:349:ARG:HG3	1.55	0.87
1:E:597:LEU:HD12	1:E:715:ILE:HD12	1.55	0.87
3:D:255:HIS:HA	3:D:259:ASN:HB3	1.57	0.87
1:E:987:GLU:HG3	1:E:988:PRO:HD3	1.56	0.87
3:G:51:VAL:HG21	3:G:276:LEU:HD12	1.54	0.87
1:E:175:LEU:HD13	1:E:179:ILE:HG22	1.57	0.87
3:G:207:LYS:NZ	3:G:544:SER:HA	1.89	0.87
1:B:307:HIS:CB	1:B:308:PRO:HD2	2.05	0.87
1:B:899:ASP:HB3	1:B:1059:ARG:HH12	1.39	0.87
2:C:1118:ARG:HG2	2:C:1118:ARG:HH21	1.39	0.87
2:C:945:LEU:HB2	2:C:952:ILE:HD11	1.54	0.87
3:D:255:HIS:HA	3:D:259:ASN:CB	2.05	0.86
1:B:175:LEU:HD13	1:B:179:ILE:HG22	1.57	0.86
1:E:11:LEU:HD13	1:E:99:ARG:HD2	1.55	0.86
3:D:253:LEU:HB3	3:D:255:HIS:NE2	1.90	0.86
2:F:28:ASP:H	2:F:29:PRO:CD	1.88	0.86
1:B:658:MET:HB3	1:B:659:PRO:HD3	1.57	0.86
1:B:673:ASN:OD1	2:C:815:LYS:HG2	1.75	0.86
1:E:966:GLN:HB3	1:E:967:PRO:HD2	1.57	0.86
1:E:899:ASP:HB3	1:E:1059:ARG:HH12	1.39	0.86
1:B:200:TYR:O	1:B:201:LEU:HB2	1.74	0.86
2:C:504:TRP:CH2	2:C:516:LEU:HD13	2.09	0.86
2:F:77:LEU:HD22	2:F:192:ARG:HD2	1.58	0.86
2:F:433:ARG:HH12	2:F:805:GLU:HG2	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:678:LEU:HD23	2:F:730:SER:HB3	1.57	0.86
1:E:794:ARG:NH2	1:E:795:LEU:HB3	1.90	0.85
2:F:397:LEU:HD23	2:F:403:LEU:HD13	1.57	0.85
3:G:17:ARG:HB2	3:G:18:PRO:HD2	1.55	0.85
3:G:244:LEU:HD22	3:G:255:HIS:HB3	1.56	0.85
2:C:557:ILE:HD13	2:C:557:ILE:H	1.40	0.85
1:E:746:GLY:H	1:E:808:ARG:HH12	1.24	0.85
3:G:597:ARG:O	3:G:598:SER:HB3	1.74	0.85
2:C:28:ASP:H	2:C:29:PRO:CD	1.88	0.85
2:C:835:GLU:O	2:C:839:ARG:HG2	1.76	0.85
1:E:1071:ARG:HH22	2:F:29:PRO:HB2	1.42	0.85
1:B:900:ASN:HD21	1:B:902:ARG:NH2	1.74	0.85
2:C:1037:VAL:HA	2:C:1109:SER:HB3	1.58	0.85
1:E:947:ARG:HB3	1:E:1086:LEU:HD21	1.57	0.85
1:E:1071:ARG:HD3	1:E:1076:TYR:HE2	1.41	0.85
1:B:1071:ARG:HD3	1:B:1076:TYR:HE2	1.39	0.84
3:D:165:ARG:HD3	3:D:166:ILE:HD11	1.58	0.84
1:E:307:HIS:ND1	1:E:308:PRO:HD2	1.91	0.84
1:E:794:ARG:HH21	1:E:795:LEU:HB3	1.41	0.84
1:E:903:VAL:HG13	1:E:1061:MET:HB2	1.58	0.84
3:G:367:ILE:N	3:G:393:ILE:HG21	1.91	0.84
1:E:307:HIS:CB	1:E:308:PRO:HD2	2.05	0.84
1:E:722:ALA:HA	1:E:725:GLN:HG3	1.58	0.84
4:Y:22:DG:H2''	4:Y:23:DC:C5'	2.07	0.84
1:B:541:MET:HG2	1:B:546:ALA:HB2	1.60	0.84
1:B:562:GLN:NE2	4:X:46:5IU:I5	2.81	0.84
2:F:482:ARG:HD3	2:F:482:ARG:O	1.78	0.84
3:D:80:ASN:HB3	3:D:83:GLU:HB3	1.60	0.84
1:B:488:ARG:HH22	1:E:541:MET:HE1	1.41	0.84
1:B:794:ARG:NH2	1:B:795:LEU:HB3	1.93	0.84
1:E:200:TYR:O	1:E:201:LEU:HB2	1.76	0.84
4:Y:46:5IU:C2'	4:Y:47:DA:H5'	2.08	0.84
1:E:861:CYS:SG	1:E:866:ALA:HA	2.18	0.84
4:X:22:DG:H2''	4:X:23:DC:C5'	2.06	0.84
3:G:174:GLY:O	3:G:357:LYS:HD3	1.77	0.83
1:B:423:ARG:HG2	4:X:49:DA:C2	2.12	0.83
3:D:367:ILE:H	3:D:393:ILE:HG21	1.42	0.83
3:D:597:ARG:O	3:D:598:SER:HB3	1.76	0.83
2:C:16:LEU:O	2:C:20:ILE:HG12	1.78	0.83
2:C:872:LEU:HD13	2:C:916:PHE:CE2	2.14	0.83
2:C:678:LEU:HD23	2:C:730:SER:HB3	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:722:ALA:HA	1:B:725:GLN:HG3	1.57	0.83
2:C:397:LEU:HD23	2:C:403:LEU:HD13	1.61	0.83
1:E:900:ASN:HD21	1:E:902:ARG:NH2	1.75	0.83
2:F:1118:ARG:HH21	2:F:1118:ARG:HG2	1.43	0.83
2:F:258:ALA:HA	2:F:261:LEU:HG	1.61	0.83
3:G:213:THR:HG22	3:G:235:GLU:HA	1.61	0.83
1:B:881:ASN:ND2	1:E:883:VAL:HG22	1.94	0.83
2:F:828:LEU:HD13	2:F:1028:ARG:HG3	1.58	0.83
3:G:244:LEU:HD22	3:G:255:HIS:CB	2.09	0.83
3:G:392:ASP:O	3:G:576:ARG:HG2	1.78	0.83
1:B:889:ASN:HD22	1:B:889:ASN:N	1.76	0.83
1:B:531:GLN:NE2	1:B:879:GLN:HB2	1.94	0.83
2:C:980:LEU:HD13	2:C:998:LEU:HB2	1.61	0.83
1:E:945:PHE:CE2	1:E:955:LEU:HD21	2.13	0.83
3:D:243:LEU:HD12	3:D:261:LEU:HD21	1.61	0.82
1:E:541:MET:HG2	1:E:546:ALA:HB2	1.61	0.82
3:G:398:LEU:H	3:G:398:LEU:HD23	1.43	0.82
4:X:46:5IU:C2'	4:X:47:DA:H5'	2.09	0.82
2:C:38:GLN:NE2	2:C:667:MET:HG3	1.94	0.82
1:B:903:VAL:HG13	1:B:1061:MET:HB2	1.62	0.82
3:D:280:SER:O	3:D:283:ILE:HG12	1.79	0.82
2:F:872:LEU:HD13	2:F:916:PHE:CE2	2.14	0.82
3:G:165:ARG:HD3	3:G:166:ILE:HD11	1.59	0.82
4:Y:6:DA:H2''	4:Y:7:5IU:O5'	1.77	0.82
2:C:685:TYR:O	2:C:687:ARG:N	2.12	0.82
3:D:188:LEU:HD21	3:D:291:ARG:NH2	1.93	0.82
1:E:1138:VAL:HB	1:E:1158:THR:O	1.79	0.82
4:X:37:DT:H2''	4:X:38:DG:H5'	1.60	0.82
2:C:382:PRO:O	2:C:386:VAL:HG23	1.79	0.82
1:E:658:MET:HB3	1:E:659:PRO:HD3	1.61	0.82
2:F:118:ASP:O	2:F:119:SER:HB2	1.79	0.82
2:C:506:ILE:H	2:C:510:ASN:HD22	1.27	0.82
1:B:307:HIS:ND1	1:B:308:PRO:HD2	1.94	0.82
2:F:504:TRP:CH2	2:F:516:LEU:HD13	2.12	0.82
3:G:80:ASN:HB3	3:G:83:GLU:HB3	1.62	0.82
2:F:466:VAL:HB	2:F:469:ASP:OD2	1.79	0.82
2:F:7:SER:HB3	2:F:13:LEU:HG	1.62	0.82
2:F:980:LEU:HD13	2:F:998:LEU:HB2	1.61	0.82
3:G:65:HIS:CB	3:G:66:PRO:HD2	2.08	0.82
2:C:433:ARG:NH1	2:C:805:GLU:HG2	1.95	0.81
1:B:947:ARG:HB3	1:B:1086:LEU:HD21	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:920:LEU:HD11	2:C:448:HIS:CD2	2.15	0.81
1:B:945:PHE:CE2	1:B:955:LEU:HD21	2.16	0.81
2:C:192:ARG:O	2:C:196:THR:HG22	1.80	0.81
2:C:258:ALA:HA	2:C:261:LEU:HG	1.62	0.81
3:D:126:VAL:HG22	3:D:166:ILE:HD13	1.61	0.81
1:E:807:THR:CG2	1:E:808:ARG:HH21	1.92	0.81
2:F:835:GLU:O	2:F:839:ARG:HG2	1.79	0.81
2:C:104:GLU:O	2:C:104:GLU:HG3	1.80	0.81
3:D:174:GLY:O	3:D:357:LYS:HD3	1.80	0.81
2:F:519:THR:HG23	2:F:521:GLN:H	1.46	0.81
1:B:807:THR:CG2	1:B:808:ARG:HH21	1.93	0.81
1:B:624:ASN:O	1:B:628:ILE:HG12	1.81	0.81
2:F:16:LEU:O	2:F:20:ILE:HG12	1.79	0.81
2:C:466:VAL:HB	2:C:469:ASP:OD2	1.81	0.81
3:D:243:LEU:CG	3:D:244:LEU:N	2.43	0.81
4:X:2:5IU:C2'	4:X:3:5IU:H5'	2.10	0.81
3:D:398:LEU:HD23	3:D:398:LEU:H	1.46	0.81
3:D:447:GLY:O	3:D:453:GLY:HA3	1.80	0.81
1:E:624:ASN:O	1:E:628:ILE:HG12	1.81	0.81
3:G:115:ASN:HB3	3:G:276:LEU:HD22	1.63	0.81
3:D:213:THR:HG22	3:D:235:GLU:HA	1.60	0.80
2:F:685:TYR:O	2:F:687:ARG:N	2.13	0.80
1:B:101:LEU:HD23	1:B:104:ILE:HD12	1.63	0.80
1:E:977:LEU:HD21	1:E:990:LEU:HD22	1.63	0.80
3:G:374:ILE:HA	3:G:590:ILE:HD11	1.64	0.80
2:C:415:ILE:HB	2:C:663:THR:HG23	1.63	0.80
2:F:506:ILE:H	2:F:510:ASN:HD22	1.27	0.80
3:D:230:LYS:HA	3:D:232:ARG:HG3	1.64	0.80
3:D:247:GLN:HE22	4:X:6:DA:H5'	1.46	0.80
2:F:354:ASN:ND2	2:F:357:GLU:H	1.79	0.80
3:G:389:ASP:C	3:G:391:THR:H	1.84	0.80
2:F:104:GLU:HG3	2:F:104:GLU:O	1.81	0.80
2:F:656:ALA:O	2:F:658:PRO:HD3	1.82	0.80
3:G:247:GLN:O	3:G:251:GLN:HG2	1.81	0.80
1:B:1138:VAL:HB	1:B:1158:THR:O	1.81	0.80
2:C:354:ASN:ND2	2:C:357:GLU:H	1.80	0.80
3:D:389:ASP:C	3:D:391:THR:H	1.84	0.80
3:G:204:PRO:HG3	3:G:274:ILE:HD13	1.61	0.80
3:G:345:ALA:HB3	3:G:349:ARG:HG3	1.63	0.80
3:D:247:GLN:HG2	4:X:5:5IU:H5''	1.64	0.80
1:E:179:ILE:HG12	1:E:222:HIS:CD2	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:889:ASN:HD22	1:E:889:ASN:N	1.76	0.80
4:Y:2:5IU:C2'	4:Y:3:5IU:H5'	2.12	0.80
2:C:681:ASN:HD21	2:C:732:ILE:H	1.29	0.80
2:F:112:ARG:O	2:F:116:THR:HG23	1.81	0.80
2:C:112:ARG:O	2:C:116:THR:HG23	1.82	0.79
2:C:519:THR:HG23	2:C:521:GLN:H	1.44	0.79
3:D:204:PRO:HG3	3:D:274:ILE:HD13	1.64	0.79
2:F:406:ARG:N	2:F:658:PRO:HB3	1.96	0.79
4:Y:37:DT:H2''	4:Y:38:DG:H5'	1.62	0.79
3:G:230:LYS:HA	3:G:232:ARG:HG3	1.64	0.79
1:B:977:LEU:HD21	1:B:990:LEU:HD22	1.64	0.79
2:F:141:TYR:HB2	2:F:697:MET:SD	2.22	0.79
3:G:280:SER:O	3:G:283:ILE:HG12	1.83	0.79
1:B:900:ASN:ND2	1:B:902:ARG:HH21	1.81	0.79
2:C:363:ASN:H	2:C:363:ASN:HD22	0.82	0.79
2:C:656:ALA:O	2:C:658:PRO:HD3	1.82	0.79
2:F:257:LEU:HD12	2:F:258:ALA:N	1.98	0.79
3:G:169:ILE:HB	3:G:295:LEU:HD23	1.65	0.79
3:G:359:TYR:O	3:G:360:ARG:HG2	1.82	0.79
2:C:118:ASP:O	2:C:119:SER:HB2	1.83	0.79
2:C:8:ASN:HD21	2:C:343:LEU:CG	1.96	0.79
2:F:382:PRO:O	2:F:386:VAL:HG23	1.82	0.79
3:G:243:LEU:HD12	3:G:261:LEU:HD21	1.63	0.79
2:C:847:ALA:O	2:C:851:MET:HB2	1.83	0.79
2:F:1055:ASP:HB2	2:F:1118:ARG:NH2	1.97	0.79
3:G:367:ILE:H	3:G:393:ILE:HG21	1.45	0.79
3:G:165:ARG:HA	3:G:291:ARG:HG2	1.64	0.79
1:B:768:TYR:CE2	1:B:786:SER:HB3	2.18	0.78
2:C:7:SER:HB3	2:C:13:LEU:HG	1.63	0.78
2:C:204:PRO:HB3	2:C:233:HIS:HB3	1.64	0.78
2:C:257:LEU:HD12	2:C:258:ALA:N	1.97	0.78
1:E:24:SER:HA	1:E:414:ASP:OD2	1.82	0.78
3:D:169:ILE:HB	3:D:295:LEU:HD23	1.64	0.78
2:F:376:PHE:CZ	2:F:752:ILE:HG23	2.18	0.78
1:E:900:ASN:ND2	1:E:902:ARG:HH21	1.82	0.78
2:F:974:VAL:HG21	2:F:1043:GLY:HA3	1.66	0.78
1:B:1098:MET:O	1:B:1102:MET:HG2	1.84	0.78
1:E:673:ASN:OD1	2:F:815:LYS:HG2	1.83	0.78
1:E:531:GLN:HE21	1:E:879:GLN:HB2	1.48	0.78
2:F:276:LEU:HD22	2:F:279:ASP:HB2	1.65	0.78
2:F:130:LYS:HD2	2:F:692:LEU:HD21	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:737:GLN:HG3	2:F:738:ASP:H	1.47	0.78
1:B:746:GLY:H	1:B:808:ARG:NH1	1.81	0.78
3:D:157:ALA:HB2	3:D:355:LEU:HD21	1.65	0.78
2:C:737:GLN:HG3	2:C:738:ASP:H	1.48	0.78
1:E:1050:CYS:C	1:E:1052:PRO:HD2	2.03	0.78
2:C:8:ASN:HD21	2:C:343:LEU:HG	1.49	0.78
1:E:746:GLY:H	1:E:808:ARG:NH1	1.82	0.78
2:F:192:ARG:O	2:F:196:THR:HG22	1.83	0.78
2:C:78:PRO:HD2	2:C:192:ARG:NH1	1.99	0.77
2:C:945:LEU:HD21	2:C:990:SER:OG	1.84	0.77
2:F:116:THR:O	2:F:118:ASP:N	2.17	0.77
1:B:104:ILE:HB	1:B:107:LYS:HE2	1.64	0.77
1:B:821:VAL:HA	1:B:832:ASP:OD1	1.84	0.77
1:E:107:LYS:H	1:E:107:LYS:HD2	1.49	0.77
1:B:11:LEU:HD13	1:B:99:ARG:HD2	1.64	0.77
3:D:158:ALA:HA	3:D:184:LEU:HD23	1.63	0.77
3:D:260:PRO:O	3:D:261:LEU:HB2	1.85	0.77
2:F:945:LEU:HD21	2:F:990:SER:OG	1.83	0.77
3:D:17:ARG:HG2	3:D:20:ASP:OD2	1.85	0.77
3:G:370:LEU:O	3:G:374:ILE:HG12	1.85	0.77
1:B:1050:CYS:C	1:B:1052:PRO:HD2	2.04	0.77
2:C:141:TYR:HB2	2:C:697:MET:SD	2.24	0.77
3:G:17:ARG:HG2	3:G:20:ASP:OD2	1.85	0.77
3:G:447:GLY:O	3:G:453:GLY:HA3	1.83	0.77
2:C:269:PHE:O	2:C:270:GLU:HG2	1.85	0.77
2:C:376:PHE:CZ	2:C:752:ILE:HG23	2.20	0.77
1:E:104:ILE:HB	1:E:107:LYS:HE2	1.64	0.77
3:G:367:ILE:HG13	3:G:393:ILE:HG23	1.67	0.77
2:F:709:ARG:HH21	2:F:709:ARG:HG2	1.48	0.77
3:G:255:HIS:HA	3:G:259:ASN:HB2	1.65	0.77
1:B:107:LYS:HD2	1:B:107:LYS:H	1.50	0.77
1:B:526:ILE:HG22	1:B:576:ILE:HD13	1.67	0.77
4:X:7:5IU:H3'	4:X:8:DC:C5'	2.12	0.77
1:B:1071:ARG:HH22	2:C:29:PRO:CB	1.98	0.76
1:E:101:LEU:HD23	1:E:104:ILE:HD12	1.66	0.76
2:F:104:GLU:HA	2:F:112:ARG:NH1	2.00	0.76
3:G:278:MET:HG3	3:G:279:MET:N	2.00	0.76
3:G:385:VAL:HG11	3:G:396:ARG:HD2	1.65	0.76
2:C:116:THR:O	2:C:118:ASP:N	2.18	0.76
1:E:237:ARG:HH21	1:E:266:ILE:HG23	1.50	0.76
2:F:8:ASN:HD21	2:F:343:LEU:CG	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:175:THR:HG21	3:G:355:LEU:HB2	1.67	0.76
1:B:1033:ALA:HB1	1:B:1053:LEU:HA	1.66	0.76
1:B:564:ALA:CA	1:B:738:ILE:HD11	2.14	0.76
1:B:861:CYS:SG	1:B:866:ALA:HA	2.24	0.76
3:G:398:LEU:H	3:G:398:LEU:CD2	1.99	0.76
3:G:158:ALA:HA	3:G:184:LEU:HD23	1.67	0.76
1:B:286:LEU:HD22	1:B:306:ARG:NH1	2.00	0.76
1:E:159:LEU:CD1	1:E:339:VAL:HG13	2.15	0.76
2:F:415:ILE:HB	2:F:663:THR:HG23	1.67	0.76
2:F:559:GLU:HA	3:G:19:LEU:HD12	1.67	0.76
1:E:423:ARG:HG2	4:Y:49:DA:C2	2.21	0.76
3:D:385:VAL:HG11	3:D:396:ARG:HD2	1.66	0.76
1:E:526:ILE:HG22	1:E:576:ILE:HD13	1.68	0.76
3:G:188:LEU:HD21	3:G:291:ARG:NH2	2.00	0.76
3:D:199:ILE:HG12	3:D:265:VAL:HG11	1.66	0.76
1:E:1075:ARG:HB3	1:E:1135:PHE:O	1.86	0.76
1:E:262:GLN:O	1:E:265:TRP:HB3	1.86	0.76
1:B:794:ARG:HH21	1:B:795:LEU:HB3	1.50	0.76
1:E:610:ASN:HD22	1:E:613:ARG:HH12	1.30	0.76
3:G:126:VAL:HG22	3:G:166:ILE:HD13	1.68	0.76
3:G:243:LEU:CG	3:G:244:LEU:N	2.47	0.76
1:B:119:ARG:HD3	2:C:302:SER:HB3	1.67	0.76
3:D:228:GLU:HA	3:D:228:GLU:OE1	1.85	0.76
1:B:262:GLN:O	1:B:265:TRP:HB3	1.87	0.75
1:E:562:GLN:NE2	4:Y:46:5IU:I5	2.89	0.75
1:E:821:VAL:HA	1:E:832:ASP:OD1	1.86	0.75
1:E:286:LEU:HD22	1:E:306:ARG:NH1	2.00	0.75
1:E:307:HIS:CG	1:E:308:PRO:HD2	2.22	0.75
3:G:199:ILE:HG12	3:G:265:VAL:HG11	1.68	0.75
1:B:1075:ARG:HB3	1:B:1135:PHE:O	1.86	0.75
2:C:347:ASN:HD22	2:C:349:ALA:H	1.33	0.75
1:B:24:SER:HA	1:B:414:ASP:OD2	1.87	0.75
1:B:467:ALA:O	1:B:799:LEU:HD13	1.85	0.75
1:B:488:ARG:HH12	1:E:544:ASP:HA	1.52	0.75
2:F:269:PHE:O	2:F:270:GLU:HG2	1.87	0.75
2:F:347:ASN:HD22	2:F:347:ASN:C	1.90	0.75
1:B:881:ASN:HD21	1:E:883:VAL:HA	1.51	0.75
3:D:204:PRO:HB3	4:X:2:5IU:H6	1.69	0.75
1:E:1051:PRO:N	1:E:1052:PRO:CD	2.48	0.75
1:E:362:LEU:HB3	1:E:399:ARG:HG2	1.68	0.75
1:B:1132:GLU:HG3	1:B:1159:ARG:HH22	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:768:TYR:CE2	1:E:786:SER:HB3	2.22	0.75
2:F:347:ASN:HD22	2:F:349:ALA:H	1.34	0.75
2:F:752:ILE:HD12	2:F:753:ASP:N	2.01	0.75
1:B:179:ILE:HG12	1:B:222:HIS:CD2	2.22	0.75
1:B:652:TRP:NE1	1:B:657:VAL:HG22	2.01	0.75
3:D:261:LEU:HD13	3:D:286:LEU:HD23	1.68	0.75
3:D:526:ARG:HE	3:D:526:ARG:HA	1.51	0.75
3:G:157:ALA:HB2	3:G:355:LEU:HD21	1.68	0.75
3:G:241:HIS:CG	4:Y:3:5IU:H4'	2.22	0.75
1:B:1109:LEU:HD22	1:B:1113:LEU:HG	1.69	0.75
3:D:247:GLN:NE2	4:X:6:DA:H5'	2.02	0.75
1:E:1109:LEU:HD22	1:E:1113:LEU:HG	1.68	0.75
2:C:971:LEU:HD23	4:X:10:DA:H5'	1.68	0.75
3:D:175:THR:HG21	3:D:355:LEU:HB2	1.68	0.75
1:E:1098:MET:O	1:E:1102:MET:HG2	1.86	0.75
3:G:228:GLU:OE1	3:G:228:GLU:HA	1.86	0.75
1:B:758:THR:HG22	1:B:820:LEU:HD12	1.69	0.74
2:C:752:ILE:HD12	2:C:753:ASP:N	2.02	0.74
3:D:370:LEU:O	3:D:374:ILE:HG12	1.87	0.74
3:D:536:MET:SD	3:D:540:LYS:HD2	2.27	0.74
3:G:260:PRO:O	3:G:261:LEU:HB2	1.86	0.74
4:X:46:5IU:H2''	4:X:47:DA:C4'	2.17	0.74
1:B:571:LEU:HD21	1:B:736:VAL:HG21	1.68	0.74
3:D:366:GLY:HA3	3:D:393:ILE:CD1	2.17	0.74
3:D:65:HIS:CB	3:D:66:PRO:HD2	2.08	0.74
3:G:253:LEU:HB3	3:G:255:HIS:NE2	2.01	0.74
3:G:261:LEU:HD13	3:G:286:LEU:HD23	1.69	0.74
1:B:1003:ASN:HD22	1:B:1157:THR:HG21	1.52	0.74
1:E:1039:LEU:H	1:E:1039:LEU:HD23	1.52	0.74
1:E:467:ALA:O	1:E:799:LEU:HD13	1.86	0.74
3:G:244:LEU:HD11	3:G:285:ALA:CB	2.17	0.74
2:C:347:ASN:HD22	2:C:347:ASN:C	1.89	0.74
1:E:306:ARG:O	1:E:307:HIS:HB2	1.85	0.74
1:E:482:GLY:HA2	1:E:485:GLN:HG2	1.68	0.74
2:F:506:ILE:N	2:F:510:ASN:HD22	1.86	0.74
2:F:433:ARG:NH1	2:F:805:GLU:HG2	2.01	0.74
4:Y:47:DA:H2''	4:Y:48:DG:H5''	1.69	0.74
1:B:730:GLU:HB2	2:C:786:ARG:HD2	1.67	0.74
1:B:488:ARG:NH1	1:E:544:ASP:HA	2.02	0.74
2:F:533:LEU:HD11	2:F:537:MET:HE3	1.69	0.74
2:F:681:ASN:HD21	2:F:732:ILE:H	1.32	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:316:TYR:HE1	3:G:604:PHE:HB2	1.52	0.74
4:Y:46:5IU:H2"	4:Y:47:DA:C4'	2.17	0.74
2:C:1046:LEU:HD21	2:C:1110:GLN:HG3	1.69	0.74
4:X:22:DG:C3'	4:X:23:DC:H5"	2.18	0.74
1:B:159:LEU:CD1	1:B:339:VAL:HG13	2.18	0.74
1:B:799:LEU:HD23	1:B:837:ALA:HB1	1.69	0.74
1:B:925:ASP:H	1:B:953:THR:CG2	2.01	0.74
2:C:104:GLU:HA	2:C:112:ARG:NH1	2.02	0.74
3:D:528:PRO:O	3:D:529:GLU:HB2	1.87	0.74
1:E:1033:ALA:HB1	1:E:1053:LEU:HA	1.69	0.74
4:Y:8:DC:H2"	4:Y:9:5IU:H5"	1.68	0.74
2:C:335:LEU:HA	2:C:374:ILE:HD11	1.70	0.74
3:D:165:ARG:NH2	3:D:288:ASP:HA	2.02	0.74
1:E:1003:ASN:HD22	1:E:1157:THR:HG21	1.53	0.74
1:E:1132:GLU:HG3	1:E:1159:ARG:HH22	1.52	0.74
2:F:506:ILE:HG23	2:F:507:ASP:N	2.02	0.74
1:B:142:PHE:HB3	2:C:110:LEU:HD22	1.68	0.74
1:B:237:ARG:HH21	1:B:266:ILE:HG23	1.53	0.74
2:C:709:ARG:HG2	2:C:709:ARG:HH21	1.50	0.74
2:F:968:ARG:NH2	4:Y:9:5IU:OP1	2.19	0.74
1:B:587:VAL:HG21	1:B:689:HIS:ND1	2.02	0.74
1:E:65:THR:HB	1:E:68:ALA:HB2	1.70	0.74
4:X:47:DA:H2"	4:X:48:DG:H5"	1.68	0.74
2:C:834:LEU:HD12	2:C:838:GLN:NE2	2.02	0.73
1:E:758:THR:HG22	1:E:820:LEU:HD12	1.70	0.73
2:C:273:GLU:OE2	2:C:274:LEU:HD23	1.86	0.73
3:D:460:GLN:HA	3:D:463:GLN:CD	2.08	0.73
3:D:367:ILE:HG13	3:D:393:ILE:HG23	1.71	0.73
1:E:281:GLN:O	1:E:282:LEU:HB2	1.89	0.73
1:E:652:TRP:NE1	1:E:657:VAL:HG22	2.04	0.73
1:B:248:GLU:HG3	1:B:288:LYS:O	1.88	0.73
2:C:406:ARG:N	2:C:658:PRO:HB3	2.03	0.73
2:C:989:ALA:C	2:C:991:GLY:H	1.92	0.73
3:G:301:LEU:H	3:G:568:THR:CG2	2.01	0.73
1:B:761:ARG:HG3	1:B:822:ARG:HH22	1.52	0.73
2:C:276:LEU:HD22	2:C:279:ASP:HB2	1.70	0.73
2:C:714:TYR:O	2:C:718:GLU:HG3	1.88	0.73
3:D:370:LEU:HB2	3:D:394:GLU:OE2	1.89	0.73
3:D:562:THR:HB	3:D:594:THR:H	1.53	0.73
1:E:809:SER:OG	1:E:813:CYS:HB2	1.88	0.73
1:B:892:THR:CG2	2:C:804:ARG:HE	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:321:GLN:O	2:F:323:LEU:HD23	1.88	0.73
1:E:233:LYS:NZ	1:E:269:ILE:HG12	2.04	0.73
1:E:471:ARG:HD2	1:E:471:ARG:N	2.02	0.73
1:E:564:ALA:CA	1:E:738:ILE:HD11	2.16	0.73
1:E:610:ASN:ND2	1:E:613:ARG:HH12	1.87	0.73
2:F:506:ILE:CG2	2:F:507:ASP:N	2.50	0.73
1:B:307:HIS:CG	1:B:308:PRO:HD2	2.23	0.73
2:C:142:ARG:N	2:C:142:ARG:HD3	2.02	0.73
2:C:70:TRP:CH2	2:C:84:SER:HB2	2.24	0.73
1:B:281:GLN:HB3	1:B:283:PRO:HD2	1.69	0.73
1:B:471:ARG:N	1:B:471:ARG:HD2	2.04	0.73
2:C:951:GLN:O	2:C:952:ILE:HG23	1.87	0.73
1:B:561:ARG:HH22	1:B:584:ARG:H	1.35	0.72
2:C:550:TYR:CE2	2:C:552:GLU:HB2	2.23	0.72
1:E:281:GLN:HB3	1:E:283:PRO:HD2	1.69	0.72
1:B:488:ARG:HH22	1:E:541:MET:CE	2.01	0.72
3:D:398:LEU:CD2	3:D:398:LEU:H	2.01	0.72
1:E:799:LEU:HD23	1:E:837:ALA:HB1	1.71	0.72
3:G:526:ARG:HA	3:G:526:ARG:HE	1.54	0.72
1:B:658:MET:HB2	1:B:695:GLN:HG2	1.71	0.72
2:C:974:VAL:HG21	2:C:1043:GLY:HA3	1.71	0.72
3:D:307:GLY:CA	3:D:597:ARG:HH21	2.00	0.72
4:X:39:DC:H2''	4:X:40:DT:OP2	1.88	0.72
3:D:121:ARG:CB	3:D:121:ARG:HH11	2.03	0.72
3:G:207:LYS:HZ1	3:G:544:SER:HA	1.53	0.72
3:G:244:LEU:HD11	3:G:285:ALA:HB3	1.72	0.72
3:G:241:HIS:HB3	4:Y:3:5IU:O3'	1.89	0.72
1:B:286:LEU:CD1	1:B:306:ARG:HB3	2.19	0.72
3:D:223:LEU:HB2	3:D:224:PRO:HD2	1.71	0.72
2:F:87:ASN:HD21	2:F:90:SER:H	1.37	0.72
1:B:306:ARG:O	1:B:307:HIS:HB2	1.87	0.72
1:B:610:ASN:HD22	1:B:613:ARG:HH12	1.35	0.72
2:F:273:GLU:OE2	2:F:274:LEU:HD23	1.88	0.72
3:G:304:VAL:HG21	3:G:564:GLU:HG2	1.70	0.72
4:Y:22:DG:C3'	4:Y:23:DC:H5''	2.18	0.72
2:C:251:ILE:HD13	2:C:252:LYS:H	1.55	0.72
2:C:506:ILE:HG23	2:C:507:ASP:N	2.03	0.72
2:C:664:LEU:HD22	2:C:685:TYR:CE1	2.25	0.72
2:C:87:ASN:HD21	2:C:90:SER:H	1.37	0.72
2:C:548:LEU:HB2	2:C:903:ALA:CB	2.19	0.72
1:E:286:LEU:CD1	1:E:306:ARG:HB3	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:561:ARG:HH12	1:E:584:ARG:HB2	1.55	0.72
1:B:249:SER:OG	1:B:250:SER:N	2.22	0.72
2:C:506:ILE:CG2	2:C:507:ASP:N	2.52	0.72
3:D:234:PRO:C	3:D:236:ASP:N	2.40	0.72
2:F:155:VAL:H	2:F:162:GLN:HE22	1.37	0.72
2:F:304:GLY:HA2	2:F:714:TYR:HD1	1.55	0.72
1:B:1051:PRO:N	1:B:1052:PRO:CD	2.48	0.72
1:B:252:ILE:O	1:B:255:ARG:HB2	1.90	0.72
1:B:283:PRO:HD3	1:B:314:ASP:HB2	1.70	0.72
1:B:947:ARG:HD3	1:B:947:ARG:H	1.54	0.72
2:C:347:ASN:HD21	2:C:349:ALA:HB3	1.55	0.72
2:C:550:TYR:CZ	2:C:552:GLU:HB2	2.24	0.72
2:F:169:TRP:O	2:F:173:VAL:HG23	1.90	0.72
3:G:121:ARG:HH11	3:G:121:ARG:CB	2.02	0.72
3:G:255:HIS:HA	3:G:259:ASN:CB	2.19	0.72
1:B:65:THR:HB	1:B:68:ALA:HB2	1.70	0.72
1:B:763:GLN:HE22	1:B:765:GLN:H	1.35	0.72
3:D:16:LEU:HD12	3:D:16:LEU:O	1.90	0.72
3:D:226:THR:HA	3:D:229:GLN:HB3	1.72	0.72
3:D:526:ARG:HH22	3:D:533:THR:CG2	2.03	0.72
1:E:249:SER:OG	1:E:250:SER:N	2.22	0.72
2:F:834:LEU:HD12	2:F:838:GLN:NE2	2.04	0.72
1:B:233:LYS:NZ	1:B:269:ILE:HG12	2.04	0.71
1:B:281:GLN:O	1:B:282:LEU:HB2	1.89	0.71
1:B:34:ALA:HB1	1:B:79:ASN:HD22	1.53	0.71
1:E:947:ARG:HD3	1:E:947:ARG:H	1.55	0.71
1:E:925:ASP:H	1:E:953:THR:CG2	2.03	0.71
2:F:550:TYR:CE2	2:F:552:GLU:HB2	2.25	0.71
2:F:664:LEU:HD22	2:F:685:TYR:CE1	2.25	0.71
3:G:536:MET:SD	3:G:540:LYS:HD2	2.30	0.71
1:B:987:GLU:HG3	1:B:988:PRO:CD	2.20	0.71
2:C:169:TRP:O	2:C:173:VAL:HG23	1.90	0.71
2:C:539:SER:HB2	2:C:551:ASP:OD1	1.90	0.71
3:D:526:ARG:HH22	3:D:533:THR:HG22	1.53	0.71
4:X:37:DT:H2''	4:X:38:DG:C5'	2.19	0.71
1:B:251:GLY:HA3	1:B:255:ARG:CZ	2.19	0.71
1:B:889:ASN:HA	2:C:807:LEU:HD11	1.73	0.71
1:E:1071:ARG:HH22	2:F:29:PRO:CB	2.03	0.71
1:E:587:VAL:HG21	1:E:689:HIS:ND1	2.05	0.71
2:F:550:TYR:CZ	2:F:552:GLU:HB2	2.24	0.71
3:G:165:ARG:NH2	3:G:288:ASP:HA	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:557:LEU:HD11	1:B:808:ARG:HG3	1.73	0.71
2:C:265:ARG:O	2:C:323:LEU:HB2	1.90	0.71
2:C:506:ILE:N	2:C:510:ASN:HD22	1.88	0.71
1:E:418:ALA:O	1:E:800:ARG:HD2	1.90	0.71
2:F:253:ASP:C	2:F:255:ALA:H	1.93	0.71
2:F:502:ILE:CG1	2:F:527:GLY:HA3	2.20	0.71
2:F:551:ASP:HB3	3:G:111:ARG:NH2	2.06	0.71
2:C:304:GLY:HA2	2:C:714:TYR:HD1	1.56	0.71
2:C:736:ILE:H	2:C:736:ILE:HD12	1.56	0.71
2:F:506:ILE:CG2	2:F:507:ASP:H	2.03	0.71
4:X:14:DC:C2'	4:X:15:DG:H5''	2.18	0.71
4:Y:7:5IU:H3'	4:Y:8:DC:C5'	2.13	0.71
1:B:560:SER:HB3	4:X:47:DA:N3	2.05	0.71
3:D:213:THR:CG2	3:D:235:GLU:HA	2.21	0.71
3:D:75:ILE:HB	3:D:78:LEU:HD13	1.72	0.71
1:E:658:MET:HB2	1:E:695:GLN:CG	2.20	0.71
1:E:763:GLN:HE22	1:E:765:GLN:H	1.36	0.71
3:G:121:ARG:HB2	3:G:121:ARG:HH11	1.56	0.71
1:B:380:VAL:HG23	1:B:408:ALA:HB3	1.70	0.71
2:C:347:ASN:HD22	2:C:348:ARG:N	1.89	0.71
3:D:78:LEU:O	3:D:80:ASN:N	2.22	0.71
1:E:252:ILE:O	1:E:255:ARG:HB2	1.90	0.71
1:E:729:LEU:HD22	1:E:729:LEU:H	1.54	0.71
1:E:739:VAL:HG22	1:E:740:THR:N	2.06	0.71
2:F:70:TRP:CH2	2:F:84:SER:HB2	2.25	0.71
2:F:951:GLN:O	2:F:952:ILE:HG23	1.90	0.71
3:G:243:LEU:CD1	3:G:244:LEU:HG	2.20	0.71
1:B:891:LYS:HD2	2:C:802:TYR:CZ	2.25	0.71
2:C:321:GLN:O	2:C:323:LEU:HD23	1.90	0.71
3:D:199:ILE:HG12	3:D:265:VAL:CG1	2.21	0.71
1:E:283:PRO:HD3	1:E:314:ASP:HB2	1.71	0.71
2:F:265:ARG:O	2:F:323:LEU:HB2	1.90	0.71
3:G:226:THR:HA	3:G:229:GLN:HB3	1.72	0.71
2:C:80:ILE:HD12	2:C:189:LEU:HD21	1.73	0.71
3:D:462:MET:HE1	3:D:534:TRP:HE1	1.54	0.71
1:E:1130:ASP:H	1:E:1134:HIS:HD2	1.38	0.71
3:G:16:LEU:O	3:G:16:LEU:HD12	1.90	0.71
4:Y:2:5IU:C3'	4:Y:3:5IU:H5'	2.21	0.71
4:Y:37:DT:H2''	4:Y:38:DG:C5'	2.20	0.71
1:B:1071:ARG:HB3	1:B:1076:TYR:CD2	2.26	0.70
2:F:386:VAL:HG12	2:F:425:VAL:HG21	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:213:THR:CG2	3:G:235:GLU:HA	2.21	0.70
4:Y:39:DC:H2"	4:Y:40:DT:OP2	1.89	0.70
1:B:1039:LEU:HD23	1:B:1039:LEU:H	1.53	0.70
1:B:658:MET:HB2	1:B:695:GLN:CG	2.21	0.70
1:E:483:LYS:HG3	1:E:484:ASN:ND2	2.05	0.70
1:B:809:SER:OG	1:B:813:CYS:HB2	1.91	0.70
2:C:828:LEU:HD22	2:C:1028:ARG:CD	2.22	0.70
3:G:135:ALA:O	3:G:139:GLN:HG3	1.90	0.70
1:B:676:ALA:O	2:C:816:ALA:HB2	1.91	0.70
3:D:58:LEU:HD13	3:D:81:TRP:CZ3	2.26	0.70
1:E:1071:ARG:HB3	1:E:1076:TYR:CD2	2.26	0.70
1:E:25:ALA:HB1	1:E:807:THR:CG2	2.21	0.70
2:F:142:ARG:N	2:F:142:ARG:HD3	2.05	0.70
3:G:373:ALA:HB1	3:G:380:THR:HB	1.72	0.70
3:G:529:GLU:OE2	3:G:529:GLU:HA	1.91	0.70
1:B:497:PRO:O	1:B:812:HIS:HD2	1.75	0.70
2:C:269:PHE:N	2:C:269:PHE:HD2	1.90	0.70
2:C:506:ILE:CG2	2:C:507:ASP:H	2.04	0.70
1:E:936:GLU:HG2	1:E:936:GLU:O	1.89	0.70
2:F:989:ALA:C	2:F:991:GLY:H	1.94	0.70
3:G:78:LEU:O	3:G:80:ASN:N	2.23	0.70
1:B:892:THR:HG22	2:C:804:ARG:NE	2.06	0.70
2:C:1055:ASP:CB	2:C:1118:ARG:HH22	1.98	0.70
1:E:924:LEU:HD23	1:E:953:THR:HG21	1.72	0.70
1:E:925:ASP:N	1:E:953:THR:HG22	2.07	0.70
1:B:729:LEU:H	1:B:729:LEU:HD22	1.55	0.70
1:B:739:VAL:HG22	1:B:740:THR:N	2.07	0.70
1:E:949:ALA:O	1:E:953:THR:HG23	1.92	0.70
1:E:920:LEU:HD21	2:F:448:HIS:CE1	2.27	0.70
3:G:465:LYS:O	3:G:466:ARG:HB2	1.90	0.70
4:Y:8:DC:H2"	4:Y:9:5IU:C5'	2.22	0.70
1:E:380:VAL:HG23	1:E:408:ALA:HB3	1.73	0.70
1:E:620:MET:CE	1:E:687:ILE:HD13	2.21	0.70
1:E:761:ARG:HG3	1:E:822:ARG:HH22	1.56	0.70
2:F:752:ILE:HD12	2:F:753:ASP:H	1.55	0.70
2:C:584:LEU:CD1	2:C:620:ILE:HG23	2.20	0.70
3:D:2:LYS:O	3:D:3:LEU:HB2	1.91	0.70
1:E:1052:PRO:C	1:E:1053:LEU:HD23	2.12	0.70
4:X:8:DC:H2"	4:X:9:5IU:H5"	1.74	0.70
2:F:269:PHE:HD2	2:F:269:PHE:N	1.89	0.70
2:F:506:ILE:H	2:F:510:ASN:ND2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:300:GLN:HG3	3:G:568:THR:HG22	1.74	0.70
3:D:130:ILE:O	3:D:132:VAL:N	2.25	0.69
3:D:201:LEU:HB3	3:D:212:LEU:HD13	1.74	0.69
2:F:1:MET:HG2	2:F:3:ARG:HE	1.57	0.69
1:B:620:MET:CE	1:B:687:ILE:HD13	2.22	0.69
1:B:936:GLU:HG2	1:B:936:GLU:O	1.90	0.69
2:C:828:LEU:HD22	2:C:1028:ARG:HD2	1.74	0.69
2:C:386:VAL:HG12	2:C:425:VAL:HG21	1.72	0.69
3:D:121:ARG:HB2	3:D:121:ARG:HH11	1.56	0.69
1:E:218:LEU:HD23	1:E:323:ILE:HD11	1.72	0.69
2:F:137:GLN:HG2	2:F:697:MET:HE1	1.72	0.69
3:G:234:PRO:C	3:G:236:ASP:N	2.40	0.69
1:B:807:THR:HG22	1:B:808:ARG:HH21	1.58	0.69
1:B:924:LEU:HD23	1:B:953:THR:HG21	1.72	0.69
2:C:1:MET:HG2	2:C:3:ARG:HE	1.57	0.69
3:D:134:GLU:OE1	3:D:331:ARG:HD2	1.92	0.69
1:E:282:LEU:N	1:E:283:PRO:HD2	2.08	0.69
1:B:1052:PRO:C	1:B:1053:LEU:HD23	2.12	0.69
1:B:482:GLY:HA2	1:B:485:GLN:HG2	1.72	0.69
2:C:502:ILE:CG1	2:C:527:GLY:HA3	2.23	0.69
2:C:980:LEU:CD1	2:C:998:LEU:HB2	2.22	0.69
1:E:497:PRO:O	1:E:812:HIS:HD2	1.76	0.69
2:F:828:LEU:HD22	2:F:1028:ARG:CD	2.22	0.69
1:B:925:ASP:N	1:B:953:THR:HG22	2.06	0.69
2:C:559:GLU:HA	3:D:19:LEU:HD12	1.74	0.69
3:D:550:ALA:HA	3:D:578:SER:O	1.91	0.69
4:X:2:5IU:C3'	4:X:3:5IU:H5'	2.23	0.69
1:B:683:ARG:NE	2:C:1095:ARG:HH12	1.90	0.69
1:B:148:PHE:H	2:C:126:GLN:HE22	1.41	0.69
3:D:135:ALA:O	3:D:139:GLN:HG3	1.92	0.69
3:D:230:LYS:C	3:D:232:ARG:H	1.96	0.69
3:D:261:LEU:HD12	3:D:285:ALA:O	1.92	0.69
1:E:987:GLU:HG3	1:E:988:PRO:CD	2.22	0.69
3:G:259:ASN:CB	3:G:260:PRO:HD2	2.06	0.69
1:B:875:ASN:C	1:B:877:PRO:HD2	2.13	0.69
2:C:253:ASP:C	2:C:255:ALA:H	1.94	0.69
3:D:465:LYS:O	3:D:466:ARG:HB2	1.91	0.69
1:E:248:GLU:HG3	1:E:288:LYS:O	1.93	0.69
2:F:363:ASN:HD22	2:F:363:ASN:H	0.77	0.69
1:B:218:LEU:HD23	1:B:323:ILE:HD11	1.74	0.69
1:B:985:GLN:CD	1:B:985:GLN:H	1.96	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1073:GLU:OE2	1:E:1073:GLU:HA	1.93	0.69
2:F:347:ASN:HD21	2:F:349:ALA:HB3	1.56	0.69
2:F:654:PHE:O	2:F:660:ASN:ND2	2.26	0.69
1:B:1071:ARG:HH12	2:C:29:PRO:HA	1.58	0.69
2:C:548:LEU:HB2	2:C:903:ALA:HB3	1.73	0.69
1:E:107:LYS:HD2	1:E:107:LYS:N	2.08	0.69
3:G:550:ALA:HA	3:G:578:SER:O	1.92	0.69
1:B:25:ALA:HB1	1:B:807:THR:CG2	2.23	0.69
1:B:527:ARG:CB	1:B:576:ILE:HD11	2.21	0.69
1:E:251:GLY:HA3	1:E:255:ARG:CZ	2.22	0.69
1:E:620:MET:HE2	1:E:687:ILE:HD13	1.73	0.69
2:F:847:ALA:O	2:F:851:MET:HB2	1.92	0.69
3:G:256:HIS:CG	3:G:257:ALA:H	2.10	0.69
1:B:483:LYS:HG3	1:B:484:ASN:ND2	2.08	0.69
1:B:541:MET:HG2	1:B:546:ALA:CB	2.23	0.69
1:B:771:ARG:HD2	1:B:771:ARG:N	2.08	0.69
3:D:229:GLN:CG	3:D:229:GLN:O	2.41	0.69
3:D:234:PRO:C	3:D:236:ASP:H	1.94	0.69
2:F:588:LEU:HG	2:F:620:ILE:HG21	1.73	0.69
2:F:714:TYR:O	2:F:718:GLU:HG3	1.93	0.69
3:G:130:ILE:O	3:G:132:VAL:N	2.23	0.69
4:X:19:DA:H1'	4:X:20:DC:H5'	1.75	0.69
2:C:968:ARG:NH2	4:X:9:5IU:OP1	2.26	0.69
1:B:167:PHE:O	1:B:171:HIS:HB2	1.93	0.68
1:B:375:ARG:HD3	1:B:400:ILE:O	1.93	0.68
2:C:850:GLN:HE22	4:X:7:5IU:HN3	1.40	0.68
2:F:736:ILE:HD12	2:F:736:ILE:H	1.58	0.68
2:F:942:GLU:OE1	3:G:196:ARG:NH1	2.26	0.68
3:G:229:GLN:CG	3:G:229:GLN:O	2.40	0.68
3:G:2:LYS:O	3:G:3:LEU:HB2	1.93	0.68
3:G:58:LEU:HD13	3:G:81:TRP:CZ3	2.27	0.68
1:B:13:LEU:HD12	1:B:14:PRO:HD2	1.76	0.68
3:D:3:LEU:HD23	3:D:6:GLN:HG3	1.75	0.68
1:E:985:GLN:CD	1:E:985:GLN:H	1.95	0.68
2:F:38:GLN:NE2	2:F:667:MET:HG3	2.03	0.68
3:G:201:LEU:HB3	3:G:212:LEU:HD13	1.76	0.68
1:B:42:LEU:HD21	1:B:114:LEU:HG	1.75	0.68
3:D:374:ILE:HA	3:D:590:ILE:HD11	1.74	0.68
3:D:98:THR:HG22	3:D:100:MET:H	1.58	0.68
1:E:875:ASN:C	1:E:877:PRO:HD2	2.13	0.68
2:F:347:ASN:HD22	2:F:348:ARG:N	1.89	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:134:GLU:OE1	3:G:331:ARG:HD2	1.92	0.68
1:B:240:VAL:HG12	1:B:240:VAL:O	1.92	0.68
1:E:1136:GLY:HA2	1:E:1159:ARG:HD3	1.74	0.68
1:E:225:ILE:HG22	1:E:229:ILE:HD11	1.76	0.68
1:E:240:VAL:O	1:E:240:VAL:HG12	1.93	0.68
1:E:561:ARG:HH22	1:E:584:ARG:H	1.41	0.68
1:E:771:ARG:N	1:E:771:ARG:HD2	2.08	0.68
1:E:11:LEU:CD1	1:E:99:ARG:HD2	2.22	0.68
3:G:199:ILE:HG12	3:G:265:VAL:CG1	2.23	0.68
3:G:462:MET:HE1	3:G:534:TRP:HE1	1.58	0.68
1:B:159:LEU:HD21	1:B:342:GLU:HG2	1.75	0.68
1:B:225:ILE:HG22	1:B:229:ILE:HD11	1.76	0.68
1:B:282:LEU:N	1:B:283:PRO:HD2	2.08	0.68
3:D:254:ARG:O	3:D:260:PRO:CG	2.42	0.68
2:F:771:GLU:O	2:F:775:ARG:HG3	1.92	0.68
3:D:204:PRO:HB3	4:X:2:5IU:I5	2.63	0.68
2:C:997:ARG:HG3	2:C:1007:ARG:HG3	1.76	0.68
1:E:947:ARG:CB	1:E:1086:LEU:HD21	2.23	0.68
1:B:488:ARG:NH2	1:E:541:MET:HE1	2.09	0.68
2:F:1046:LEU:HD21	2:F:1110:GLN:HG3	1.73	0.68
2:C:771:GLU:O	2:C:775:ARG:HG3	1.93	0.68
3:D:261:LEU:HD12	3:D:285:ALA:C	2.14	0.68
3:D:526:ARG:HH12	3:D:536:MET:CE	2.07	0.68
1:E:1089:ASP:O	1:E:1091:SER:N	2.27	0.68
2:F:273:GLU:OE2	2:F:274:LEU:N	2.27	0.68
2:F:619:ILE:HD11	2:F:644:ARG:HD2	1.76	0.68
1:B:1130:ASP:H	1:B:1134:HIS:HD2	1.39	0.68
1:E:658:MET:HB2	1:E:695:GLN:HG2	1.75	0.68
2:F:335:LEU:HA	2:F:374:ILE:HD11	1.76	0.68
1:B:675:LEU:HD12	2:C:809:ALA:HB1	1.75	0.68
3:D:300:GLN:HG3	3:D:568:THR:HG22	1.75	0.68
1:E:541:MET:HG2	1:E:546:ALA:CB	2.23	0.68
3:G:261:LEU:HD12	3:G:285:ALA:C	2.14	0.68
2:C:418:TYR:O	2:C:422:ILE:HG12	1.93	0.68
3:D:165:ARG:HA	3:D:291:ARG:HG2	1.73	0.68
2:F:251:ILE:HD13	2:F:252:LYS:H	1.58	0.68
2:F:418:TYR:O	2:F:422:ILE:HG12	1.94	0.68
2:F:997:ARG:HG3	2:F:1007:ARG:HG3	1.76	0.68
3:G:234:PRO:C	3:G:236:ASP:H	1.94	0.68
4:Y:19:DA:H1'	4:Y:20:DC:H5'	1.76	0.68
1:B:107:LYS:HD2	1:B:107:LYS:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:366:GLY:HA3	3:D:393:ILE:HG21	1.76	0.67
1:E:513:ASP:O	1:E:515:GLN:N	2.27	0.67
3:G:261:LEU:HD12	3:G:285:ALA:O	1.94	0.67
3:G:75:ILE:HB	3:G:78:LEU:HD13	1.75	0.67
1:B:1089:ASP:O	1:B:1091:SER:N	2.28	0.67
2:C:619:ILE:HD11	2:C:644:ARG:HD2	1.75	0.67
1:E:823:ARG:HG2	1:E:825:GLY:N	2.09	0.67
2:F:7:SER:CB	2:F:13:LEU:HG	2.24	0.67
2:F:78:PRO:HD2	2:F:192:ARG:NH1	2.09	0.67
3:G:132:VAL:HG12	3:G:133:ASP:N	2.09	0.67
1:B:964:PHE:HD2	1:B:964:PHE:H	1.42	0.67
3:D:165:ARG:HB3	3:D:166:ILE:HD12	1.75	0.67
3:D:123:PHE:HB2	3:D:604:PHE:CE2	2.29	0.67
1:E:807:THR:HG22	1:E:808:ARG:HH21	1.58	0.67
2:F:8:ASN:HD21	2:F:343:LEU:HG	1.57	0.67
1:B:624:ASN:HB2	1:B:627:ASP:OD2	1.94	0.67
3:D:301:LEU:H	3:D:568:THR:CG2	2.06	0.67
2:F:405:PRO:HG2	2:F:658:PRO:CB	2.25	0.67
2:F:980:LEU:CD1	2:F:998:LEU:HB2	2.24	0.67
4:Y:2:5IU:H3'	4:Y:3:5IU:H5'	1.76	0.67
1:E:159:LEU:HD21	1:E:342:GLU:HG2	1.75	0.67
4:Y:9:5IU:H2''	4:Y:10:DA:O5'	1.95	0.67
1:B:1136:GLY:HA2	1:B:1159:ARG:HD3	1.77	0.67
1:B:213:PRO:O	1:B:215:ASP:N	2.28	0.67
1:B:1078:LEU:CD1	1:B:1118:LEU:HD12	2.25	0.67
3:G:440:LEU:O	3:G:441:LEU:HD23	1.95	0.67
1:B:243:LEU:HD22	1:B:259:ARG:NH1	2.10	0.67
1:B:426:ASP:O	1:B:429:THR:HG22	1.94	0.67
1:B:442:THR:CG2	1:B:476:ILE:HD11	2.15	0.67
2:C:506:ILE:H	2:C:510:ASN:ND2	1.92	0.67
1:E:426:ASP:O	1:E:429:THR:HG22	1.95	0.67
2:F:435:LEU:HD12	2:F:435:LEU:O	1.95	0.67
2:F:405:PRO:HB2	2:F:659:VAL:HG23	1.77	0.67
1:B:18:GLU:HG2	1:B:18:GLU:O	1.94	0.67
2:C:1036:LEU:O	2:C:1037:VAL:HB	1.94	0.67
1:B:892:THR:HG22	2:C:804:ARG:HE	1.59	0.67
2:C:97:THR:HG23	2:C:628:TYR:CE1	2.29	0.67
3:D:366:GLY:HA3	3:D:393:ILE:HD12	1.76	0.67
1:E:964:PHE:H	1:E:964:PHE:HD2	1.43	0.67
3:G:254:ARG:CG	3:G:259:ASN:ND2	2.58	0.67
3:G:274:ILE:HG23	3:G:278:MET:HG2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:301:LEU:HD22	3:G:565:LEU:HA	1.76	0.67
1:B:1043:PHE:HB3	1:B:1161:ASN:CG	2.15	0.67
2:C:502:ILE:HG13	2:C:527:GLY:HA3	1.76	0.67
3:D:529:GLU:OE2	3:D:529:GLU:HA	1.93	0.67
2:F:834:LEU:HD21	2:F:986:VAL:HG21	1.77	0.67
3:D:200:ARG:HB2	3:D:263:LEU:CD2	2.22	0.66
3:D:85:LEU:HD13	3:D:107:LEU:HD13	1.77	0.66
1:E:1078:LEU:CD1	1:E:1118:LEU:HD12	2.24	0.66
1:E:148:PHE:H	2:F:126:GLN:HE22	1.43	0.66
3:G:230:LYS:C	3:G:232:ARG:H	1.96	0.66
3:G:398:LEU:HD23	3:G:398:LEU:N	2.10	0.66
3:G:561:VAL:HG12	3:G:589:ALA:HB2	1.76	0.66
1:B:423:ARG:HG2	4:X:49:DA:H2	1.57	0.66
1:B:636:HIS:O	1:B:640:VAL:HG23	1.95	0.66
1:E:557:LEU:HD11	1:E:808:ARG:HG3	1.77	0.66
1:E:893:LEU:O	1:E:893:LEU:HD13	1.96	0.66
1:E:1071:ARG:HH12	2:F:29:PRO:HA	1.60	0.66
2:C:28:ASP:H	2:C:29:PRO:HD2	1.60	0.66
1:E:571:LEU:HD21	1:E:736:VAL:HG21	1.77	0.66
1:E:81:HIS:HA	1:E:118:GLU:OE2	1.95	0.66
2:F:28:ASP:H	2:F:29:PRO:HD2	1.60	0.66
3:G:344:GLU:HG3	3:G:345:ALA:N	2.08	0.66
1:B:920:LEU:HD11	2:C:448:HIS:NE2	2.11	0.66
2:C:664:LEU:HB3	2:C:715:LEU:HD13	1.77	0.66
3:D:278:MET:SD	4:X:2:5IU:I5	3.24	0.66
2:F:539:SER:HB2	2:F:551:ASP:OD1	1.95	0.66
2:F:584:LEU:CD1	2:F:620:ILE:HG23	2.24	0.66
1:B:610:ASN:ND2	1:B:613:ARG:HH12	1.93	0.66
1:B:919:ASP:OD1	2:C:652:GLN:HB2	1.95	0.66
3:D:286:LEU:HD13	3:D:292:VAL:HG21	1.77	0.66
3:D:207:LYS:NZ	3:D:544:SER:HA	2.10	0.66
2:F:172:LEU:O	2:F:176:THR:HG22	1.94	0.66
3:D:179:THR:O	3:D:182:ALA:HB3	1.95	0.66
3:D:526:ARG:HE	3:D:526:ARG:CA	2.09	0.66
1:E:558:VAL:HG22	1:E:563:GLU:HB3	1.77	0.66
2:F:1037:VAL:HG22	2:F:1109:SER:HA	1.77	0.66
2:F:354:ASN:ND2	2:F:356:GLU:HB3	2.10	0.66
1:B:1073:GLU:OE2	1:B:1073:GLU:HA	1.93	0.66
1:B:947:ARG:CB	1:B:1086:LEU:HD21	2.25	0.66
1:B:1121:TYR:CD1	2:C:58:ALA:HB3	2.31	0.66
1:B:495:THR:HG23	1:E:544:ASP:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:347:ASN:HD21	2:C:349:ALA:H	1.44	0.66
1:E:13:LEU:HD12	1:E:14:PRO:HD2	1.77	0.66
1:E:741:ILE:HD12	1:E:805:ALA:HB2	1.78	0.66
1:E:530:LEU:HB3	1:E:878:TRP:CZ3	2.31	0.66
3:G:179:THR:O	3:G:182:ALA:HB3	1.96	0.66
3:G:204:PRO:HG3	3:G:274:ILE:CD1	2.24	0.66
3:G:526:ARG:HH22	3:G:533:THR:CG2	2.08	0.66
4:X:8:DC:OP2	4:X:9:5IU:I5	2.84	0.66
1:B:513:ASP:O	1:B:515:GLN:N	2.27	0.66
1:B:530:LEU:HB3	1:B:878:TRP:CZ3	2.31	0.66
3:D:344:GLU:HG3	3:D:345:ALA:N	2.10	0.66
1:E:167:PHE:O	1:E:171:HIS:HB2	1.96	0.66
1:E:636:HIS:O	1:E:640:VAL:HG23	1.96	0.66
2:F:265:ARG:O	2:F:323:LEU:CB	2.43	0.66
3:G:207:LYS:HZ3	3:G:544:SER:HA	1.59	0.66
1:B:34:ALA:HB1	1:B:79:ASN:ND2	2.11	0.66
2:C:269:PHE:C	2:C:270:GLU:HG2	2.16	0.66
3:D:229:GLN:HG3	3:D:229:GLN:O	1.96	0.66
3:D:233:ILE:O	3:D:235:GLU:N	2.28	0.66
3:D:233:ILE:C	3:D:235:GLU:H	1.99	0.66
2:F:269:PHE:C	2:F:270:GLU:HG2	2.17	0.66
2:C:752:ILE:HD12	2:C:753:ASP:H	1.59	0.66
3:D:244:LEU:HB3	3:D:255:HIS:CD2	2.31	0.66
3:D:562:THR:HG21	3:D:594:THR:HG23	1.77	0.66
3:D:300:GLN:NE2	3:D:568:THR:HG22	2.10	0.66
3:D:58:LEU:HD13	3:D:81:TRP:HZ3	1.60	0.66
2:F:112:ARG:HG3	2:F:112:ARG:HH11	1.62	0.66
2:F:269:PHE:CD2	2:F:269:PHE:N	2.62	0.66
3:G:425:ARG:O	3:G:427:GLU:N	2.29	0.66
1:B:139:LEU:CD2	1:B:377:ARG:HH12	2.09	0.65
2:C:111:LEU:HD13	2:C:127:LEU:HD21	1.78	0.65
2:C:172:LEU:O	2:C:176:THR:HG22	1.94	0.65
2:C:685:TYR:O	2:C:687:ARG:HG3	1.95	0.65
2:F:828:LEU:HD22	2:F:1028:ARG:HD2	1.77	0.65
2:F:972:LEU:HA	2:F:1000:LEU:HD13	1.78	0.65
1:B:746:GLY:N	1:B:808:ARG:HH12	1.93	0.65
2:C:354:ASN:ND2	2:C:356:GLU:HB3	2.11	0.65
3:D:597:ARG:HH11	3:D:598:SER:HB2	1.61	0.65
2:F:273:GLU:CD	2:F:274:LEU:HD23	2.17	0.65
3:G:229:GLN:HG3	3:G:229:GLN:O	1.96	0.65
3:G:389:ASP:O	3:G:391:THR:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:ARG:O	1:B:225:ILE:HG12	1.97	0.65
2:C:834:LEU:HD21	2:C:986:VAL:HG21	1.78	0.65
1:E:1079:LEU:HD11	1:E:1141:LEU:HG	1.78	0.65
3:G:366:GLY:HA3	3:G:393:ILE:CD1	2.26	0.65
4:X:41:DC:H2"	4:X:42:DG:OP2	1.97	0.65
4:Y:14:DC:C2'	4:Y:15:DG:H5"	2.20	0.65
1:B:119:ARG:HD3	2:C:302:SER:CB	2.25	0.65
3:D:201:LEU:HB3	3:D:212:LEU:CD1	2.25	0.65
3:D:378:ASP:O	3:D:382:VAL:HG23	1.96	0.65
1:E:423:ARG:HG2	4:Y:49:DA:H2	1.60	0.65
1:E:550:ARG:HH11	1:E:550:ARG:HG2	1.61	0.65
2:F:1036:LEU:O	2:F:1037:VAL:HB	1.95	0.65
2:F:776:VAL:O	2:F:780:LEU:HD22	1.96	0.65
1:B:893:LEU:O	1:B:893:LEU:HD13	1.97	0.65
2:C:545:GLN:O	2:C:547:VAL:HG23	1.97	0.65
2:C:588:LEU:HG	2:C:620:ILE:HG21	1.78	0.65
1:B:924:LEU:HD11	2:C:607:ALA:HA	1.79	0.65
1:E:1043:PHE:HB3	1:E:1161:ASN:CG	2.17	0.65
1:E:947:ARG:H	1:E:947:ARG:CD	2.09	0.65
2:F:502:ILE:HG13	2:F:527:GLY:HA3	1.77	0.65
3:G:177:LYS:O	3:G:181:VAL:HG23	1.97	0.65
3:G:244:LEU:HD21	3:G:261:LEU:HG	1.77	0.65
1:B:1003:ASN:ND2	1:B:1157:THR:HG21	2.12	0.65
1:B:226:VAL:HA	1:B:229:ILE:HD12	1.78	0.65
3:D:51:VAL:CG2	3:D:276:LEU:HD12	2.25	0.65
1:E:243:LEU:HD22	1:E:259:ARG:NH1	2.11	0.65
1:E:649:ARG:HG3	1:E:650:GLN:N	2.12	0.65
2:F:442:ARG:HG3	2:F:442:ARG:HH11	1.61	0.65
2:F:832:VAL:HG23	2:F:832:VAL:O	1.96	0.65
3:G:233:ILE:O	3:G:235:GLU:N	2.29	0.65
3:G:233:ILE:C	3:G:235:GLU:H	2.00	0.65
1:B:823:ARG:HG2	1:B:825:GLY:N	2.10	0.65
2:C:273:GLU:OE2	2:C:274:LEU:N	2.27	0.65
3:D:255:HIS:HA	3:D:259:ASN:HB2	1.77	0.65
1:E:390:ASP:HB2	1:E:391:PRO:HD2	1.79	0.65
2:F:161:ALA:HA	2:F:164:TRP:CD1	2.32	0.65
4:X:8:DC:H2"	4:X:9:5IU:C5'	2.27	0.65
4:Y:41:DC:H2"	4:Y:42:DG:OP2	1.96	0.65
1:B:541:MET:O	1:B:811:TRP:HZ3	1.80	0.65
1:E:891:LYS:HD2	2:F:802:TYR:CZ	2.31	0.65
2:F:753:ASP:O	2:F:757:GLN:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:28:ALA:O	3:G:30:ASP:N	2.30	0.65
4:Y:36:DG:H2"	4:Y:37:DT:OP2	1.97	0.65
1:B:889:ASN:ND2	1:B:889:ASN:N	2.45	0.65
1:B:903:VAL:HG23	2:C:656:ALA:HA	1.79	0.65
2:C:72:MET:HE1	2:C:208:PRO:HD2	1.78	0.65
2:C:265:ARG:O	2:C:323:LEU:CB	2.45	0.65
2:C:776:VAL:O	2:C:780:LEU:HD22	1.97	0.65
1:E:649:ARG:HH11	1:E:649:ARG:HB2	1.62	0.65
3:G:98:THR:HG22	3:G:100:MET:H	1.61	0.65
1:B:645:PHE:HA	1:B:648:TYR:CD2	2.33	0.64
2:C:435:LEU:HD12	2:C:435:LEU:O	1.97	0.64
2:C:569:MET:O	2:C:573:ILE:HG13	1.95	0.64
2:C:753:ASP:O	2:C:757:GLN:HG3	1.97	0.64
3:D:254:ARG:O	3:D:260:PRO:HG3	1.96	0.64
3:D:530:HIS:C	3:D:532:THR:H	1.99	0.64
3:G:370:LEU:HB2	3:G:394:GLU:OE2	1.97	0.64
3:G:85:LEU:HD13	3:G:107:LEU:HD13	1.79	0.64
1:B:1033:ALA:HB1	1:B:1053:LEU:CA	2.27	0.64
2:F:166:ALA:HB3	2:F:167:PRO:HD3	1.77	0.64
3:G:165:ARG:HB3	3:G:166:ILE:HD12	1.79	0.64
3:G:243:LEU:HD11	3:G:244:LEU:HG	1.77	0.64
3:G:254:ARG:HG3	3:G:259:ASN:ND2	2.13	0.64
1:B:747:LEU:HD23	1:B:749:TYR:OH	1.97	0.64
3:D:398:LEU:N	3:D:398:LEU:HD23	2.12	0.64
2:F:948:ASN:C	2:F:948:ASN:HD22	2.01	0.64
2:C:28:ASP:N	2:C:29:PRO:CD	2.60	0.64
3:D:165:ARG:HD3	3:D:166:ILE:CD1	2.27	0.64
3:D:389:ASP:O	3:D:391:THR:N	2.30	0.64
2:F:584:LEU:CD2	2:F:632:VAL:HG21	2.27	0.64
3:G:412:LEU:HD13	3:G:462:MET:HG2	1.80	0.64
2:C:273:GLU:CD	2:C:274:LEU:HD23	2.17	0.64
2:C:405:PRO:HB2	2:C:659:VAL:HG23	1.80	0.64
1:E:1033:ALA:HB1	1:E:1053:LEU:CA	2.28	0.64
1:E:561:ARG:NH2	1:E:584:ARG:H	1.95	0.64
4:Y:8:DC:OP2	4:Y:9:5IU:I5	2.85	0.64
1:B:282:LEU:HD21	1:B:307:HIS:HB2	1.80	0.64
1:B:390:ASP:HB2	1:B:391:PRO:HD2	1.79	0.64
1:B:649:ARG:HG3	1:B:650:GLN:N	2.12	0.64
2:C:166:ALA:HB3	2:C:167:PRO:HD3	1.79	0.64
3:D:244:LEU:HD11	3:D:285:ALA:HB3	1.80	0.64
2:F:80:ILE:HD12	2:F:189:LEU:HD21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:165:ARG:HD3	3:G:166:ILE:CD1	2.27	0.64
1:B:746:GLY:N	1:B:808:ARG:NH1	2.46	0.64
2:C:112:ARG:HG3	2:C:112:ARG:HH11	1.62	0.64
2:C:207:LEU:HB3	2:C:208:PRO:HD2	1.79	0.64
1:E:747:LEU:HD23	1:E:749:TYR:OH	1.98	0.64
1:B:253:ASP:C	1:B:255:ARG:H	2.01	0.64
1:B:81:HIS:HA	1:B:118:GLU:OE2	1.97	0.64
2:C:1037:VAL:HG22	2:C:1109:SER:HA	1.79	0.64
2:C:7:SER:CB	2:C:13:LEU:HG	2.26	0.64
3:D:201:LEU:HD21	3:D:233:ILE:HG21	1.79	0.64
3:D:28:ALA:O	3:D:30:ASP:N	2.28	0.64
1:E:213:PRO:O	1:E:215:ASP:N	2.28	0.64
1:E:226:VAL:HA	1:E:229:ILE:HD12	1.80	0.64
2:F:207:LEU:HD12	2:F:234:ILE:HD13	1.78	0.64
3:G:200:ARG:HB2	3:G:263:LEU:CD2	2.24	0.64
1:B:222:HIS:HE1	1:B:226:VAL:HG21	1.63	0.64
2:C:832:VAL:HG23	2:C:832:VAL:O	1.96	0.64
3:D:132:VAL:HG12	3:D:133:ASP:N	2.11	0.64
3:D:177:LYS:O	3:D:181:VAL:HG23	1.97	0.64
1:E:1130:ASP:H	1:E:1134:HIS:CD2	2.15	0.64
1:B:881:ASN:ND2	1:E:882:ASP:O	2.31	0.64
2:C:269:PHE:N	2:C:269:PHE:CD2	2.62	0.64
2:F:602:ASP:OD1	2:F:603:ALA:N	2.31	0.64
3:G:366:GLY:HA3	3:G:393:ILE:HG21	1.79	0.64
3:G:426:ALA:C	3:G:428:PRO:HD2	2.17	0.64
4:Y:2:5IU:C2'	4:Y:3:5IU:C5'	2.76	0.64
1:B:1018:GLN:HA	1:B:1018:GLN:OE1	1.96	0.63
1:B:1079:LEU:HD11	1:B:1141:LEU:HG	1.79	0.63
1:B:25:ALA:HB1	1:B:807:THR:HG23	1.79	0.63
2:C:109:THR:HG23	2:C:112:ARG:NH2	2.14	0.63
2:C:935:ARG:O	2:C:937:PRO:HD3	1.98	0.63
1:E:18:GLU:HG2	1:E:18:GLU:O	1.98	0.63
1:E:65:THR:HG22	1:E:66:GLU:N	2.12	0.63
1:E:709:ARG:NH1	2:F:475:ASP:OD1	2.32	0.63
1:E:889:ASN:ND2	1:E:889:ASN:N	2.45	0.63
2:F:954:GLY:O	2:F:955:TRP:HE3	1.81	0.63
4:X:2:5IU:H3'	4:X:3:5IU:H5'	1.80	0.63
2:C:676:CYS:HA	2:C:728:TYR:HB3	1.80	0.63
2:C:945:LEU:CB	2:C:952:ILE:HD11	2.27	0.63
3:D:300:GLN:CG	3:D:568:THR:HG22	2.28	0.63
3:D:58:LEU:HD22	3:D:81:TRP:CH2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:155:VAL:H	2:C:162:GLN:HE22	1.44	0.63
2:C:954:GLY:O	2:C:955:TRP:HE3	1.80	0.63
1:E:1018:GLN:HA	1:E:1018:GLN:OE1	1.97	0.63
3:G:51:VAL:HG11	3:G:276:LEU:CD1	2.29	0.63
3:G:526:ARG:HE	3:G:526:ARG:CA	2.10	0.63
4:X:2:5IU:C2'	4:X:3:5IU:C5'	2.76	0.63
1:B:98:GLU:O	1:B:102:GLU:HG3	1.98	0.63
1:B:1071:ARG:HD3	1:B:1076:TYR:CE2	2.30	0.63
1:B:208:ILE:O	1:B:211:PRO:HD3	1.97	0.63
3:D:91:VAL:HA	3:D:100:MET:O	1.99	0.63
3:D:254:ARG:O	3:D:255:HIS:HB3	1.99	0.63
3:G:597:ARG:HH11	3:G:598:SER:HB2	1.63	0.63
2:C:228:GLN:NE2	2:C:318:GLU:H	1.93	0.63
3:D:426:ALA:C	3:D:428:PRO:HD2	2.18	0.63
1:E:500:LYS:HA	1:E:866:ALA:O	1.99	0.63
1:E:945:PHE:HE2	1:E:955:LEU:HD21	1.60	0.63
3:G:89:GLN:HA	3:G:89:GLN:OE1	1.98	0.63
1:B:1078:LEU:HD22	1:B:1115:THR:HG22	1.80	0.63
1:B:771:ARG:HG2	1:B:771:ARG:HH11	1.64	0.63
1:B:878:TRP:O	1:B:880:VAL:N	2.31	0.63
1:E:221:ARG:O	1:E:225:ILE:HG12	1.99	0.63
1:E:550:ARG:HG2	1:E:550:ARG:NH1	2.13	0.63
2:F:207:LEU:HB3	2:F:208:PRO:HD2	1.79	0.63
2:F:228:GLN:NE2	2:F:318:GLU:H	1.94	0.63
2:F:347:ASN:HD21	2:F:349:ALA:CB	2.12	0.63
2:C:161:ALA:HA	2:C:164:TRP:CD1	2.34	0.63
1:E:253:ASP:C	1:E:255:ARG:H	2.02	0.63
3:G:366:GLY:HA3	3:G:393:ILE:HD12	1.81	0.63
3:G:385:VAL:HG21	3:G:396:ARG:CZ	2.28	0.63
1:B:148:PHE:N	2:C:126:GLN:HE22	1.95	0.63
1:E:807:THR:HG21	1:E:808:ARG:HH21	1.64	0.63
2:F:405:PRO:C	2:F:658:PRO:HB3	2.19	0.63
3:G:201:LEU:HD21	3:G:233:ILE:HG21	1.80	0.63
3:G:58:LEU:HD22	3:G:81:TRP:CH2	2.34	0.63
4:X:36:DG:H2''	4:X:37:DT:OP2	1.98	0.63
1:B:741:ILE:HD12	1:B:805:ALA:HB2	1.80	0.63
2:C:539:SER:HB2	2:C:551:ASP:CG	2.18	0.63
1:E:233:LYS:HZ1	1:E:269:ILE:HG12	1.63	0.63
2:F:539:SER:HB2	2:F:551:ASP:CG	2.19	0.63
2:F:895:GLU:HG3	2:F:899:ARG:NH2	2.14	0.63
1:E:173:TYR:O	2:F:909:TYR:HE2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:2:5IU:H2'	4:X:3:5IU:H5'	1.80	0.63
1:B:1130:ASP:H	1:B:1134:HIS:CD2	2.17	0.62
1:B:267:ASP:C	1:B:269:ILE:H	2.01	0.62
1:B:597:LEU:O	1:B:601:GLN:HG3	1.99	0.62
3:D:243:LEU:HD12	3:D:244:LEU:CD2	2.29	0.62
3:D:440:LEU:O	3:D:441:LEU:HD23	1.99	0.62
3:D:562:THR:OG1	3:D:594:THR:HG23	1.99	0.62
1:E:1003:ASN:ND2	1:E:1157:THR:HG21	2.13	0.62
1:E:1115:THR:HG21	1:E:1160:PRO:HG2	1.81	0.62
1:E:892:THR:HG22	2:F:804:ARG:HE	1.64	0.62
3:G:201:LEU:HB3	3:G:212:LEU:CD1	2.29	0.62
3:G:326:ALA:O	3:G:337:VAL:HB	1.99	0.62
3:G:582:ASP:C	3:G:584:ARG:H	2.03	0.62
1:B:469:MET:SD	1:B:795:LEU:CD1	2.87	0.62
1:B:50:PHE:CD1	1:B:51:PRO:HD2	2.34	0.62
2:C:347:ASN:HD21	2:C:349:ALA:CB	2.11	0.62
2:C:602:ASP:OD1	2:C:603:ALA:N	2.32	0.62
2:C:853:LEU:O	2:C:855:VAL:HG23	1.98	0.62
2:C:943:ILE:HD12	2:C:956:LEU:HG	1.81	0.62
1:E:856:CYS:O	1:E:859:ALA:HB3	2.00	0.62
2:F:685:TYR:O	2:F:687:ARG:HG3	1.98	0.62
3:G:255:HIS:CG	3:G:256:HIS:H	2.18	0.62
3:G:58:LEU:HD13	3:G:81:TRP:HZ3	1.62	0.62
4:Y:44:DA:H2"	4:Y:45:DT:OP2	1.98	0.62
1:B:501:MET:HG3	1:B:815:LEU:HD21	1.82	0.62
3:D:562:THR:CG2	3:D:594:THR:HG23	2.29	0.62
1:E:1102:MET:HE3	1:E:1107:TYR:HB2	1.81	0.62
2:F:384:ARG:HD3	2:F:786:ARG:O	2.00	0.62
2:F:935:ARG:O	2:F:937:PRO:HD3	1.99	0.62
3:G:246:ALA:HB1	3:G:251:GLN:NE2	2.14	0.62
1:B:1102:MET:CE	1:B:1107:TYR:HB2	2.30	0.62
1:B:856:CYS:O	1:B:859:ALA:HB3	2.00	0.62
1:B:1127:ALA:HB2	2:C:25:ARG:HD2	1.82	0.62
3:D:425:ARG:O	3:D:427:GLU:N	2.32	0.62
3:D:531:GLU:H	3:D:533:THR:HG23	1.65	0.62
1:E:98:GLU:O	1:E:102:GLU:HG3	2.00	0.62
1:E:1078:LEU:HD22	1:E:1115:THR:HG22	1.80	0.62
1:E:282:LEU:HD21	1:E:307:HIS:HB2	1.81	0.62
3:G:239:THR:HG23	3:G:242:ARG:HB2	1.81	0.62
3:G:301:LEU:H	3:G:568:THR:HG23	1.64	0.62
4:X:2:5IU:H2"	4:X:3:5IU:O5'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:LEU:HD21	1:B:377:ARG:HH12	1.65	0.62
1:B:949:ALA:O	1:B:953:THR:HG23	1.99	0.62
2:C:382:PRO:HB2	2:C:421:PHE:CE1	2.35	0.62
2:C:384:ARG:HD3	2:C:786:ARG:O	1.99	0.62
3:D:89:GLN:OE1	3:D:89:GLN:HA	2.00	0.62
2:F:1099:PRO:HG2	2:F:1100:GLU:OE1	1.99	0.62
2:F:569:MET:O	2:F:573:ILE:HG13	2.00	0.62
2:F:853:LEU:O	2:F:855:VAL:HG23	1.99	0.62
3:G:234:PRO:O	3:G:236:ASP:N	2.33	0.62
3:G:239:THR:C	3:G:241:HIS:H	2.01	0.62
2:C:207:LEU:HD12	2:C:234:ILE:HD13	1.82	0.62
1:E:577:PRO:HB2	1:E:735:LEU:HD22	1.82	0.62
1:E:893:LEU:HB3	2:F:802:TYR:CE2	2.35	0.62
3:G:562:THR:HB	3:G:594:THR:H	1.63	0.62
3:D:205:THR:CA	4:X:3:5IU:OP1	2.32	0.62
1:B:1040:ILE:HD11	1:B:1168:MET:CE	2.29	0.62
3:D:177:LYS:O	3:D:180:THR:HG22	2.00	0.62
3:D:308:ALA:O	3:D:597:ARG:NH2	2.33	0.62
3:D:397:LEU:HD13	3:D:580:TYR:HE2	1.65	0.62
1:E:746:GLY:N	1:E:808:ARG:NH1	2.46	0.62
2:F:678:LEU:CD2	2:F:730:SER:HB3	2.28	0.62
2:F:952:ILE:N	2:F:952:ILE:HD13	2.14	0.62
3:G:330:SER:HB3	3:G:337:VAL:HG23	1.80	0.62
1:B:1098:MET:HE3	1:B:1142:PHE:HD1	1.65	0.62
1:B:246:LEU:HD23	1:B:307:HIS:HE2	1.65	0.62
2:C:442:ARG:HG3	2:C:442:ARG:HH11	1.65	0.62
2:C:948:ASN:HD22	2:C:948:ASN:C	2.02	0.62
3:D:106:ARG:HB3	3:D:108:TYR:CE1	2.35	0.62
3:D:244:LEU:HD11	3:D:285:ALA:CB	2.30	0.62
1:E:1102:MET:CE	1:E:1107:TYR:HB2	2.30	0.62
1:E:802:LEU:HD22	1:E:806:LEU:HD22	1.81	0.62
1:E:676:ALA:O	2:F:816:ALA:HB2	1.98	0.62
3:G:271:ALA:O	3:G:274:ILE:HG12	1.99	0.62
3:G:530:HIS:C	3:G:532:THR:H	2.01	0.62
4:Y:15:DG:H1'	4:Y:16:DA:OP1	1.99	0.62
1:B:558:VAL:HG22	1:B:563:GLU:HB3	1.82	0.62
1:B:644:GLU:HG2	1:B:648:TYR:CE2	2.35	0.62
1:B:8:LEU:HD13	1:B:10:PRO:HD3	1.82	0.62
2:C:26:LEU:HD22	2:C:210:ARG:HH12	1.65	0.62
2:C:60:ILE:N	2:C:60:ILE:HD12	2.15	0.62
3:D:204:PRO:HG3	3:D:274:ILE:CD1	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:366:GLY:CA	3:D:393:ILE:HG21	2.30	0.62
1:E:1121:TYR:CD1	2:F:58:ALA:HB3	2.35	0.62
1:E:25:ALA:HB1	1:E:807:THR:HG21	1.82	0.62
1:E:920:LEU:HD11	2:F:448:HIS:NE2	2.15	0.62
2:F:61:ASP:C	2:F:63:PRO:HD3	2.18	0.62
4:X:44:DA:H2''	4:X:45:DT:OP2	1.99	0.62
1:B:947:ARG:CD	1:B:947:ARG:H	2.08	0.62
3:D:275:ASP:OD1	4:X:2:5IU:O4	2.18	0.62
1:E:527:ARG:CB	1:E:576:ILE:HD11	2.23	0.62
1:E:893:LEU:HB3	2:F:802:TYR:HE2	1.65	0.62
2:F:347:ASN:HD21	2:F:349:ALA:H	1.46	0.62
2:F:464:ARG:O	2:F:505:GLY:HA2	2.00	0.62
1:B:924:LEU:CD2	1:B:949:ALA:HB1	2.30	0.61
2:C:1055:ASP:CB	2:C:1118:ARG:NH2	2.60	0.61
3:D:234:PRO:O	3:D:236:ASP:N	2.32	0.61
1:E:1062:LEU:HD21	1:E:1113:LEU:HD22	1.82	0.61
1:E:771:ARG:HG2	1:E:771:ARG:HH11	1.64	0.61
2:F:676:CYS:HA	2:F:728:TYR:HB3	1.82	0.61
3:G:531:GLU:H	3:G:533:THR:HG23	1.64	0.61
1:B:562:GLN:OE1	4:X:46:5IU:I5	2.88	0.61
1:B:233:LYS:O	1:B:237:ARG:HG3	1.99	0.61
1:B:56:VAL:CG1	1:B:124:ALA:HA	2.30	0.61
1:B:649:ARG:HB2	1:B:649:ARG:HH11	1.65	0.61
1:B:11:LEU:CD1	1:B:99:ARG:HD2	2.29	0.61
2:C:250:ASP:OD1	2:C:291:GLY:HA3	2.00	0.61
1:B:916:ILE:HG21	2:C:448:HIS:NE2	2.15	0.61
3:D:307:GLY:C	3:D:597:ARG:HH21	2.03	0.61
3:D:526:ARG:HH12	3:D:536:MET:HE2	1.64	0.61
2:F:382:PRO:HB2	2:F:421:PHE:CE1	2.35	0.61
4:Y:2:5IU:H2''	4:Y:3:5IU:O5'	1.99	0.61
1:B:1071:ARG:HB3	1:B:1076:TYR:HD2	1.65	0.61
1:B:947:ARG:CG	1:B:1086:LEU:HD21	2.29	0.61
1:B:1102:MET:HE3	1:B:1107:TYR:HB2	1.80	0.61
2:C:681:ASN:ND2	2:C:732:ILE:H	1.97	0.61
1:E:267:ASP:C	1:E:269:ILE:H	2.03	0.61
1:E:795:LEU:HA	1:E:798:ASP:HB2	1.82	0.61
3:G:255:HIS:CA	3:G:259:ASN:HB2	2.28	0.61
3:G:365:SER:HB3	3:G:390:PHE:CE2	2.35	0.61
1:B:1132:GLU:HG3	1:B:1159:ARG:NH2	2.16	0.61
1:B:795:LEU:HA	1:B:798:ASP:HB2	1.82	0.61
2:C:678:LEU:CD2	2:C:730:SER:HB3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:952:ILE:N	2:C:952:ILE:HD13	2.16	0.61
3:D:256:HIS:CG	3:D:257:ALA:H	2.19	0.61
2:F:160:GLU:C	2:F:162:GLN:H	2.04	0.61
2:F:941:MET:HE3	2:F:959:VAL:HG11	1.83	0.61
3:D:247:GLN:HE22	4:X:6:DA:C5'	2.14	0.61
1:B:1056:MET:O	1:B:1058:VAL:HG23	2.00	0.61
1:B:61:VAL:HB	1:B:126:VAL:HG13	1.81	0.61
1:B:275:GLU:OE1	1:B:276:GLU:HG2	2.00	0.61
1:B:807:THR:HG21	1:B:808:ARG:HH21	1.66	0.61
1:B:924:LEU:HD23	1:B:953:THR:CG2	2.30	0.61
2:C:895:GLU:HG3	2:C:899:ARG:NH2	2.15	0.61
1:E:1098:MET:HE3	1:E:1142:PHE:HD1	1.65	0.61
1:E:604:MET:SD	1:E:704:GLU:HB2	2.41	0.61
2:F:146:LEU:HB3	2:F:169:TRP:NE1	2.16	0.61
2:F:60:ILE:HD12	2:F:60:ILE:N	2.15	0.61
3:G:278:MET:HG2	4:Y:2:5IU:I5	2.71	0.61
3:D:223:LEU:CB	3:D:224:PRO:HD2	2.31	0.61
3:D:392:ASP:O	3:D:576:ARG:HG2	2.00	0.61
3:D:31:GLU:CD	3:D:88:SER:HB2	2.20	0.61
1:E:834:HIS:CE1	1:E:847:PRO:HB3	2.35	0.61
1:E:924:LEU:HD23	1:E:953:THR:CG2	2.30	0.61
2:F:25:ARG:HH11	2:F:25:ARG:HG3	1.65	0.61
2:F:545:GLN:O	2:F:547:VAL:HG23	2.00	0.61
3:G:528:PRO:O	3:G:529:GLU:HB2	1.99	0.61
1:B:1062:LEU:HD21	1:B:1113:LEU:HD22	1.83	0.61
2:C:286:LEU:H	2:C:292:GLU:HA	1.66	0.61
2:C:440:SER:O	2:C:441:ASP:HB2	2.01	0.61
3:D:115:ASN:O	3:D:119:VAL:HG23	2.01	0.61
1:E:947:ARG:CG	1:E:1086:LEU:HD21	2.30	0.61
1:E:275:GLU:HG3	1:E:276:GLU:N	2.15	0.61
1:E:598:TRP:CZ2	2:F:857:PHE:HB3	2.35	0.61
1:E:624:ASN:HB2	1:E:627:ASP:OD2	2.01	0.61
2:F:25:ARG:HH11	2:F:25:ARG:CG	2.14	0.61
2:F:250:ASP:OD1	2:F:291:GLY:HA3	1.99	0.61
2:F:519:THR:HG23	2:F:521:GLN:N	2.16	0.61
3:G:253:LEU:HD22	3:G:255:HIS:HE2	1.66	0.61
3:G:259:ASN:O	3:G:260:PRO:O	2.18	0.61
3:G:286:LEU:HD13	3:G:292:VAL:HG21	1.83	0.61
3:G:62:GLU:HB2	3:G:66:PRO:HG2	1.83	0.61
1:B:908:GLY:O	1:B:1055:PHE:HB3	2.01	0.61
2:C:1082:ARG:NH1	2:C:1082:ARG:HB2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:584:LEU:CD2	2:C:632:VAL:HG21	2.31	0.61
3:D:326:ALA:O	3:D:337:VAL:HB	2.00	0.61
1:E:265:TRP:O	1:E:265:TRP:CD1	2.53	0.61
1:E:831:THR:C	1:E:833:VAL:H	2.03	0.61
2:F:433:ARG:NH1	2:F:803:ALA:HA	2.15	0.61
1:B:42:LEU:HB2	1:B:44:LEU:HD13	1.82	0.61
1:B:634:ASP:OD1	1:B:636:HIS:ND1	2.34	0.61
2:C:654:PHE:O	2:C:660:ASN:ND2	2.33	0.61
3:D:597:ARG:C	3:D:597:ARG:HD2	2.21	0.61
1:E:275:GLU:O	1:E:277:THR:HG23	2.01	0.61
1:E:306:ARG:O	1:E:307:HIS:CB	2.48	0.61
1:E:52:ARG:HB2	1:E:53:PRO:HD2	1.83	0.61
1:E:597:LEU:O	1:E:601:GLN:HG3	2.01	0.61
2:F:62:PHE:N	2:F:63:PRO:HD3	2.16	0.61
2:C:25:ARG:HG3	2:C:25:ARG:HH11	1.66	0.61
3:D:91:VAL:HG12	3:D:100:MET:CB	2.30	0.61
1:E:1040:ILE:HD11	1:E:1168:MET:CE	2.30	0.61
1:E:405:PRO:O	1:E:406:GLU:HB2	2.01	0.61
1:E:641:VAL:O	1:E:644:GLU:HB3	2.01	0.61
1:E:645:PHE:HA	1:E:648:TYR:CD2	2.35	0.61
2:F:161:ALA:HA	2:F:164:TRP:NE1	2.16	0.61
2:F:37:VAL:HG21	2:F:42:MET:HB3	1.83	0.61
3:G:106:ARG:HB3	3:G:108:TYR:CE1	2.36	0.61
3:G:51:VAL:CG2	3:G:276:LEU:HD12	2.30	0.61
1:B:562:GLN:CD	4:X:46:5IU:I5	3.09	0.61
1:B:831:THR:C	1:B:833:VAL:H	2.05	0.60
2:C:146:LEU:HB3	2:C:169:TRP:NE1	2.15	0.60
2:C:62:PHE:N	2:C:63:PRO:HD3	2.16	0.60
3:D:134:GLU:HB3	3:D:332:LEU:CD2	2.31	0.60
1:E:1071:ARG:HD3	1:E:1076:TYR:CE2	2.31	0.60
1:E:233:LYS:O	1:E:237:ARG:HG3	2.01	0.60
1:E:56:VAL:CG1	1:E:124:ALA:HA	2.30	0.60
1:E:924:LEU:CD2	1:E:949:ALA:HB1	2.30	0.60
3:G:177:LYS:O	3:G:180:THR:HG22	2.01	0.60
4:X:15:DG:H1'	4:X:16:DA:OP1	2.00	0.60
1:B:52:ARG:HB2	1:B:53:PRO:HD2	1.83	0.60
3:D:56:SER:C	3:D:58:LEU:H	2.04	0.60
1:E:908:GLY:O	1:E:1055:PHE:HB3	2.01	0.60
1:E:65:THR:HG22	1:E:67:ALA:H	1.65	0.60
2:C:989:ALA:O	2:C:991:GLY:N	2.35	0.60
3:D:239:THR:C	3:D:241:HIS:H	2.03	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:8:LEU:HD13	1:E:10:PRO:HD3	1.82	0.60
2:F:664:LEU:HB3	2:F:715:LEU:HD13	1.83	0.60
3:G:524:PRO:HD2	3:G:527:LEU:HD12	1.84	0.60
1:B:306:ARG:O	1:B:307:HIS:CB	2.48	0.60
1:B:641:VAL:O	1:B:644:GLU:HB3	2.01	0.60
2:C:251:ILE:HD13	2:C:252:LYS:N	2.17	0.60
2:C:376:PHE:CE2	2:C:752:ILE:HG23	2.37	0.60
2:C:503:ARG:HD3	2:C:867:THR:O	2.01	0.60
3:D:385:VAL:HG21	3:D:396:ARG:CZ	2.30	0.60
3:D:95:ASP:OD2	3:D:96:GLU:HG3	2.01	0.60
1:E:42:LEU:HB2	1:E:44:LEU:HD13	1.82	0.60
1:E:860:LEU:O	1:E:861:CYS:HB2	2.01	0.60
4:Y:46:5IU:H4'	4:Y:46:5IU:OP1	2.00	0.60
2:C:533:LEU:HD11	2:C:537:MET:HE3	1.84	0.60
3:D:163:THR:OG1	3:D:325:ARG:NH2	2.35	0.60
3:D:253:LEU:CB	3:D:255:HIS:NE2	2.63	0.60
3:D:562:THR:HG21	3:D:594:THR:HA	1.83	0.60
3:D:62:GLU:HB2	3:D:66:PRO:HG2	1.81	0.60
1:E:469:MET:SD	1:E:795:LEU:CD1	2.89	0.60
2:F:347:ASN:ND2	2:F:349:ALA:N	2.43	0.60
1:E:892:THR:CG2	2:F:804:ARG:HE	2.14	0.60
3:G:278:MET:O	3:G:279:MET:C	2.39	0.60
3:G:405:ILE:H	3:G:405:ILE:HD12	1.66	0.60
4:X:46:5IU:OP1	4:X:46:5IU:H4'	2.00	0.60
1:B:265:TRP:CD1	1:B:265:TRP:O	2.54	0.60
1:B:275:GLU:HG3	1:B:276:GLU:N	2.15	0.60
2:C:1118:ARG:HG2	2:C:1118:ARG:NH2	2.10	0.60
2:C:160:GLU:C	2:C:162:GLN:H	2.05	0.60
2:C:207:LEU:CB	2:C:208:PRO:HD2	2.32	0.60
2:C:389:LEU:HD22	2:C:678:LEU:HD11	1.83	0.60
3:D:130:ILE:N	3:D:130:ILE:HD12	2.08	0.60
1:E:1127:ALA:HB2	2:F:25:ARG:HD2	1.83	0.60
1:E:275:GLU:OE1	1:E:276:GLU:HG2	2.02	0.60
1:E:821:VAL:HG22	1:E:831:THR:HA	1.83	0.60
2:F:309:ASP:O	2:F:313:LEU:HG	2.01	0.60
2:F:440:SER:O	2:F:441:ASP:HB2	2.01	0.60
2:C:971:LEU:HD23	4:X:10:DA:C5'	2.30	0.60
2:C:972:LEU:HA	2:C:1000:LEU:HD13	1.82	0.60
2:C:997:ARG:HH11	2:C:997:ARG:HG2	1.66	0.60
3:D:225:LEU:O	3:D:229:GLN:HB2	2.01	0.60
1:E:1056:MET:O	1:E:1058:VAL:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1009:PRO:O	2:F:1011:LEU:HD22	2.02	0.60
2:F:197:LEU:HD13	2:F:230:LEU:HA	1.82	0.60
2:F:228:GLN:HG3	2:F:319:SER:HB3	1.83	0.60
2:F:8:ASN:HD21	2:F:343:LEU:CD1	2.14	0.60
3:G:163:THR:OG1	3:G:325:ARG:NH2	2.35	0.60
1:B:282:LEU:HD21	1:B:307:HIS:CB	2.31	0.60
1:B:307:HIS:HB3	1:B:308:PRO:HD2	1.83	0.60
2:C:130:LYS:HD2	2:C:692:LEU:HD21	1.84	0.60
1:E:702:GLU:HB2	2:F:449:PRO:CG	2.32	0.60
1:E:705:HIS:CD2	2:F:487:GLU:HG3	2.36	0.60
3:G:156:VAL:O	3:G:160:VAL:HG23	2.01	0.60
2:C:1099:PRO:HG2	2:C:1100:GLU:OE1	2.01	0.60
2:C:161:ALA:HA	2:C:164:TRP:NE1	2.17	0.60
2:C:61:ASP:C	2:C:63:PRO:HD3	2.22	0.60
3:D:201:LEU:HD13	3:D:216:LEU:HD12	1.84	0.60
1:E:1071:ARG:HB3	1:E:1076:TYR:HD2	1.67	0.60
1:E:931:VAL:HG12	1:E:932:ALA:H	1.65	0.60
1:B:459:LYS:CE	1:B:860:LEU:HB2	2.29	0.60
1:B:65:THR:HG22	1:B:66:GLU:N	2.16	0.60
1:B:821:VAL:HG22	1:B:831:THR:HA	1.84	0.60
1:B:879:GLN:HB3	1:E:883:VAL:HG11	1.84	0.60
2:C:519:THR:HG23	2:C:521:GLN:N	2.15	0.60
3:D:188:LEU:HD21	3:D:291:ARG:HH22	1.67	0.60
1:E:634:ASP:OD1	1:E:636:HIS:ND1	2.35	0.60
2:F:533:LEU:CD1	2:F:537:MET:HE3	2.31	0.60
2:F:943:ILE:HD12	2:F:956:LEU:HG	1.83	0.60
3:G:246:ALA:HA	3:G:253:LEU:HD23	1.84	0.60
3:G:3:LEU:HD23	3:G:6:GLN:HG3	1.84	0.60
4:Y:2:5IU:H2'	4:Y:3:5IU:H5'	1.84	0.60
1:B:227:ALA:O	1:B:231:THR:HG23	2.01	0.59
1:B:802:LEU:HD22	1:B:806:LEU:HD22	1.82	0.59
1:B:86:ALA:HB1	1:B:92:THR:HG1	1.67	0.59
1:B:931:VAL:HG12	1:B:932:ALA:H	1.67	0.59
2:C:1009:PRO:O	2:C:1011:LEU:HD22	2.02	0.59
2:C:943:ILE:HG12	2:C:954:GLY:N	2.17	0.59
1:B:881:ASN:ND2	1:E:883:VAL:HA	2.17	0.59
2:F:1082:ARG:HB2	2:F:1082:ARG:NH1	2.17	0.59
1:B:275:GLU:O	1:B:277:THR:HG23	2.02	0.59
1:B:761:ARG:HG3	1:B:822:ARG:NH2	2.18	0.59
1:E:282:LEU:HD21	1:E:307:HIS:CB	2.33	0.59
1:E:50:PHE:CD1	1:E:51:PRO:HD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:540:ALA:C	2:F:542:GLY:H	2.05	0.59
3:G:243:LEU:HD13	3:G:261:LEU:HD21	1.82	0.59
3:G:56:SER:C	3:G:58:LEU:H	2.05	0.59
4:X:16:DA:H2''	4:X:17:DG:O5'	2.02	0.59
1:B:901:TRP:CZ3	1:B:1060:GLY:HA2	2.37	0.59
2:C:1072:LEU:O	2:C:1076:GLU:HG2	2.02	0.59
2:C:78:PRO:HD2	2:C:192:ARG:HH11	1.64	0.59
3:D:444:LEU:HD21	3:D:558:THR:HG21	1.83	0.59
3:D:71:CYS:HB3	3:D:74:GLU:HB3	1.85	0.59
1:E:225:ILE:O	1:E:229:ILE:HG13	2.02	0.59
1:E:246:LEU:HD23	1:E:307:HIS:HE2	1.68	0.59
2:F:294:ASP:O	2:F:296:GLY:N	2.34	0.59
1:E:702:GLU:HB2	2:F:449:PRO:HG2	1.83	0.59
3:G:423:GLN:C	3:G:425:ARG:H	2.06	0.59
3:G:75:ILE:O	3:G:78:LEU:HD13	2.02	0.59
3:D:239:THR:HG23	3:D:242:ARG:HB2	1.83	0.59
3:D:267:VAL:HG22	3:D:293:ILE:HB	1.83	0.59
3:D:62:GLU:O	3:D:69:ALA:HB2	2.03	0.59
1:E:448:ARG:HG3	1:E:748:GLU:OE1	2.01	0.59
2:F:77:LEU:CD2	2:F:192:ARG:HD2	2.31	0.59
3:G:178:THR:HG23	3:G:179:THR:HG23	1.84	0.59
1:B:831:THR:OG1	1:B:831:THR:O	2.21	0.59
2:C:819:GLU:CD	2:C:821:VAL:HG13	2.22	0.59
2:C:8:ASN:HD21	2:C:343:LEU:CD1	2.16	0.59
3:D:243:LEU:HD12	3:D:244:LEU:HD23	1.84	0.59
3:D:259:ASN:O	3:D:260:PRO:O	2.20	0.59
1:E:222:HIS:HE1	1:E:226:VAL:HG21	1.67	0.59
3:G:31:GLU:CD	3:G:88:SER:HB2	2.23	0.59
2:F:850:GLN:NE2	4:Y:7:5IU:HN3	1.92	0.59
1:B:1115:THR:HG21	1:B:1160:PRO:HG2	1.83	0.59
1:B:1132:GLU:HA	1:B:1159:ARG:NH2	2.18	0.59
1:B:175:LEU:HD13	1:B:179:ILE:CG2	2.31	0.59
1:B:645:PHE:HA	1:B:648:TYR:HD2	1.68	0.59
1:B:779:ASP:C	1:B:781:ASN:H	2.05	0.59
2:F:266:ARG:NH1	2:F:269:PHE:CD1	2.70	0.59
3:G:316:TYR:HE1	3:G:604:PHE:CB	2.14	0.59
1:B:248:GLU:CG	1:B:288:LYS:O	2.50	0.59
1:B:568:ARG:O	1:B:572:THR:HB	2.03	0.59
1:B:879:GLN:O	1:E:883:VAL:HG21	2.02	0.59
2:C:228:GLN:HG3	2:C:319:SER:HB3	1.84	0.59
2:C:37:VAL:HG21	2:C:42:MET:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:ASP:HB2	2:C:767:LEU:HD21	1.85	0.59
1:B:893:LEU:HB3	2:C:802:TYR:CE2	2.38	0.59
2:C:941:MET:HE3	2:C:959:VAL:HG11	1.85	0.59
3:D:271:ALA:O	3:D:274:ILE:HG12	2.03	0.59
1:E:560:SER:HB2	4:Y:48:DG:OP1	2.03	0.59
2:F:1114:LEU:N	2:F:1115:PRO:HD2	2.18	0.59
2:F:376:PHE:CE2	2:F:752:ILE:HG23	2.37	0.59
2:F:764:ASP:HB2	2:F:767:LEU:HD21	1.84	0.59
3:G:115:ASN:O	3:G:119:VAL:HG23	2.02	0.59
3:G:134:GLU:HB3	3:G:332:LEU:CD2	2.33	0.59
4:Y:16:DA:H2''	4:Y:17:DG:O5'	2.02	0.59
1:B:248:GLU:HG3	1:B:288:LYS:C	2.23	0.59
1:B:500:LYS:HA	1:B:866:ALA:O	2.03	0.59
2:C:309:ASP:O	2:C:313:LEU:HG	2.03	0.59
2:C:943:ILE:HD13	2:C:943:ILE:N	2.18	0.59
3:D:52:CYS:HB3	3:D:108:TYR:CD2	2.38	0.59
3:D:405:ILE:H	3:D:405:ILE:HD12	1.68	0.59
1:E:1109:LEU:CD2	1:E:1113:LEU:HG	2.32	0.59
2:F:367:LEU:O	2:F:368:ASP:CB	2.51	0.59
3:G:256:HIS:CD2	3:G:257:ALA:H	2.21	0.59
1:B:550:ARG:HH11	1:B:550:ARG:HG2	1.67	0.59
2:C:25:ARG:CG	2:C:25:ARG:HH11	2.16	0.59
2:C:736:ILE:H	2:C:736:ILE:CD1	2.13	0.59
3:D:130:ILE:CD1	3:D:130:ILE:H	2.00	0.59
1:E:501:MET:HG3	1:E:815:LEU:HD21	1.83	0.59
1:B:1023:PHE:CZ	1:B:1064:GLY:HA3	2.38	0.59
1:B:1148:LYS:HD2	1:B:1148:LYS:H	1.67	0.59
1:B:418:ALA:O	1:B:800:ARG:HD2	2.03	0.59
1:B:966:GLN:HB3	1:B:967:PRO:CD	2.32	0.59
2:C:253:ASP:C	2:C:255:ALA:N	2.56	0.59
3:D:389:ASP:C	3:D:391:THR:N	2.53	0.59
3:D:423:GLN:C	3:D:425:ARG:H	2.06	0.59
3:D:526:ARG:NE	3:D:526:ARG:HA	2.17	0.59
1:E:762:VAL:HG13	1:E:791:GLU:CG	2.33	0.59
1:E:984:SER:HB2	1:E:985:GLN:NE2	2.17	0.59
2:F:834:LEU:HD12	2:F:838:GLN:CD	2.23	0.59
2:F:945:LEU:CB	2:F:952:ILE:HD11	2.28	0.59
4:Y:47:DA:C2'	4:Y:48:DG:O5'	2.48	0.59
1:B:405:PRO:O	1:B:406:GLU:HB2	2.03	0.58
1:B:63:THR:OG1	1:B:69:THR:HG22	2.03	0.58
1:B:945:PHE:HE2	1:B:955:LEU:HD21	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:433:ARG:NH1	2:C:803:ALA:HA	2.18	0.58
3:D:301:LEU:H	3:D:568:THR:HG23	1.68	0.58
1:E:56:VAL:HG12	1:E:124:ALA:HA	1.84	0.58
1:E:227:ALA:O	1:E:231:THR:HG23	2.03	0.58
1:E:541:MET:O	1:E:811:TRP:HZ3	1.86	0.58
3:G:91:VAL:HA	3:G:100:MET:O	2.03	0.58
2:C:828:LEU:HD13	2:C:1028:ARG:CG	2.30	0.58
2:C:994:GLY:O	2:C:1010:PRO:HB3	2.03	0.58
1:E:675:LEU:HD12	2:F:809:ALA:HB1	1.83	0.58
1:E:746:GLY:N	1:E:808:ARG:HH12	1.95	0.58
2:F:26:LEU:HD22	2:F:210:ARG:HH12	1.68	0.58
2:F:257:LEU:HD13	2:F:281:GLU:OE1	2.03	0.58
2:F:717:LEU:HD22	2:F:717:LEU:O	2.03	0.58
3:G:201:LEU:HD13	3:G:216:LEU:HD12	1.84	0.58
3:G:239:THR:C	3:G:241:HIS:N	2.53	0.58
3:G:367:ILE:HG13	3:G:393:ILE:CG2	2.32	0.58
2:C:292:GLU:O	2:C:295:VAL:HG23	2.02	0.58
3:D:461:PHE:C	3:D:463:GLN:H	2.07	0.58
3:D:417:ARG:NH2	3:D:576:ARG:NH2	2.51	0.58
1:E:265:TRP:O	1:E:265:TRP:HD1	1.86	0.58
1:E:248:GLU:HG3	1:E:288:LYS:C	2.24	0.58
2:F:1080:MET:HG3	4:Y:11:DA:C4	2.39	0.58
2:F:292:GLU:O	2:F:295:VAL:HG23	2.03	0.58
1:B:375:ARG:HD2	1:B:404:GLN:HG2	1.85	0.58
1:B:65:THR:HG22	1:B:67:ALA:H	1.67	0.58
2:C:834:LEU:HD12	2:C:838:GLN:CD	2.23	0.58
1:E:175:LEU:HD13	1:E:179:ILE:CG2	2.31	0.58
1:E:644:GLU:HG2	1:E:648:TYR:CE2	2.38	0.58
2:F:681:ASN:ND2	2:F:732:ILE:H	2.01	0.58
2:C:77:LEU:CD2	2:C:192:ARG:HD2	2.27	0.58
2:C:393:LEU:HD22	2:C:408:ILE:HD13	1.84	0.58
2:C:767:LEU:O	2:C:768:ASN:HB2	2.03	0.58
1:E:1148:LYS:H	1:E:1148:LYS:HD2	1.68	0.58
1:E:281:GLN:OE1	1:E:317:LEU:HD12	2.03	0.58
1:E:831:THR:O	1:E:831:THR:OG1	2.20	0.58
2:F:1051:ASP:HB3	2:F:1056:ALA:HB3	1.86	0.58
2:F:972:LEU:HD23	2:F:973:SER:N	2.19	0.58
3:G:271:ALA:C	3:G:273:MET:H	2.07	0.58
1:B:233:LYS:HZ1	1:B:269:ILE:HG12	1.67	0.58
1:B:550:ARG:NH1	1:B:550:ARG:HG2	2.18	0.58
1:B:964:PHE:HD2	1:B:964:PHE:N	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:974:VAL:HB	2:C:1039:PRO:O	2.03	0.58
2:C:1046:LEU:HD12	2:C:1117:PHE:CD2	2.39	0.58
2:C:540:ALA:C	2:C:542:GLY:H	2.05	0.58
2:F:506:ILE:HG22	2:F:507:ASP:H	1.68	0.58
2:F:838:GLN:HB3	2:F:979:GLN:NE2	2.19	0.58
4:Y:20:DC:H2"	4:Y:21:DT:OP2	2.03	0.58
1:B:1082:LYS:HE2	1:B:1107:TYR:CZ	2.38	0.58
1:B:286:LEU:HD21	1:B:306:ARG:O	2.03	0.58
1:B:683:ARG:NE	2:C:1095:ARG:NH1	2.51	0.58
2:C:1109:SER:O	2:C:1113:LEU:HB2	2.04	0.58
2:C:717:LEU:O	2:C:717:LEU:HD22	2.03	0.58
3:D:253:LEU:HD13	3:D:255:HIS:NE2	2.18	0.58
1:E:591:LEU:O	1:E:595:GLU:HG3	2.04	0.58
1:E:730:GLU:HB2	2:F:786:ARG:HD2	1.86	0.58
2:F:1109:SER:O	2:F:1113:LEU:HB2	2.03	0.58
2:F:1118:ARG:NH2	2:F:1118:ARG:HG2	2.14	0.58
2:F:207:LEU:CB	2:F:208:PRO:HD2	2.33	0.58
2:F:312:TYR:HD1	2:F:313:LEU:HD23	1.66	0.58
3:G:225:LEU:O	3:G:229:GLN:HB2	2.04	0.58
4:X:1:5IU:O2	4:X:1:5IU:O4'	2.20	0.58
1:B:860:LEU:O	1:B:861:CYS:HB2	2.04	0.58
2:C:342:ILE:HG21	2:C:721:ILE:HD11	1.84	0.58
3:D:225:LEU:C	3:D:225:LEU:HD23	2.23	0.58
3:D:417:ARG:HH11	3:D:437:GLU:HB3	1.68	0.58
3:D:75:ILE:O	3:D:78:LEU:HD13	2.03	0.58
1:E:1082:LYS:HE2	1:E:1107:TYR:CZ	2.39	0.58
1:E:42:LEU:HD21	1:E:114:LEU:HG	1.86	0.58
1:E:823:ARG:HH22	1:E:828:LYS:NZ	2.02	0.58
1:E:964:PHE:N	1:E:964:PHE:HD2	2.01	0.58
2:F:943:ILE:HG12	2:F:954:GLY:N	2.19	0.58
1:B:823:ARG:HH22	1:B:828:LYS:NZ	2.00	0.58
1:B:924:LEU:HD21	1:B:949:ALA:HB1	1.86	0.58
3:D:207:LYS:HZ3	3:D:544:SER:HA	1.65	0.58
1:E:568:ARG:O	1:E:572:THR:HB	2.04	0.58
1:E:631:LEU:O	1:E:631:LEU:HD23	2.04	0.58
1:E:892:THR:HG22	2:F:804:ARG:NE	2.18	0.58
1:E:683:ARG:NE	2:F:1095:ARG:HH12	2.01	0.58
2:F:185:HIS:H	2:F:188:ASN:HD21	1.51	0.58
2:F:373:SER:HA	2:F:726:LYS:HD3	1.86	0.58
3:G:597:ARG:HD2	3:G:597:ARG:C	2.23	0.58
1:B:984:SER:HB2	1:B:985:GLN:NE2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1132:GLU:HA	1:E:1159:ARG:NH2	2.18	0.58
1:E:779:ASP:C	1:E:781:ASN:H	2.07	0.58
2:F:712:ASP:O	2:F:715:LEU:HB2	2.03	0.58
3:G:201:LEU:CG	3:G:233:ILE:HG21	2.34	0.58
3:G:253:LEU:CD1	3:G:281:ARG:HG2	2.34	0.58
1:B:222:HIS:CE1	1:B:226:VAL:HG21	2.38	0.57
1:B:234:GLN:C	1:B:236:TRP:H	2.08	0.57
1:B:652:TRP:HA	1:B:656:GLY:O	2.04	0.57
2:C:294:ASP:O	2:C:296:GLY:N	2.36	0.57
2:C:689:LEU:HD22	2:C:708:ARG:HD2	1.86	0.57
3:D:255:HIS:CB	3:D:260:PRO:HG2	2.31	0.57
1:E:657:VAL:HG21	1:E:707:LEU:CD1	2.34	0.57
1:E:924:LEU:HD21	1:E:949:ALA:HB1	1.86	0.57
2:F:736:ILE:CD1	2:F:736:ILE:H	2.15	0.57
2:F:819:GLU:CD	2:F:821:VAL:HG13	2.24	0.57
1:B:131:GLY:O	1:B:135:ARG:HB2	2.03	0.57
2:C:312:TYR:HD1	2:C:313:LEU:HD23	1.69	0.57
2:C:551:ASP:HB3	3:D:111:ARG:NH2	2.19	0.57
3:D:201:LEU:CG	3:D:233:ILE:HG21	2.34	0.57
3:D:134:GLU:HB3	3:D:332:LEU:HD23	1.84	0.57
3:D:79:GLN:C	3:D:81:TRP:H	2.08	0.57
1:E:1132:GLU:HG3	1:E:1159:ARG:NH2	2.17	0.57
1:E:131:GLY:O	1:E:135:ARG:HB2	2.04	0.57
1:E:281:GLN:CB	1:E:283:PRO:HD2	2.34	0.57
1:E:139:LEU:CD2	1:E:377:ARG:HH12	2.16	0.57
1:E:771:ARG:H	1:E:771:ARG:HD2	1.65	0.57
1:E:459:LYS:CE	1:E:860:LEU:HB2	2.28	0.57
2:F:251:ILE:HD13	2:F:256:TYR:HD2	1.69	0.57
2:F:397:LEU:CD2	2:F:403:LEU:HD13	2.33	0.57
1:B:1033:ALA:HA	1:B:1055:PHE:CZ	2.40	0.57
1:B:225:ILE:O	1:B:229:ILE:HG13	2.04	0.57
1:B:762:VAL:HG13	1:B:791:GLU:CG	2.34	0.57
1:B:964:PHE:CD2	1:B:964:PHE:N	2.69	0.57
2:C:347:ASN:ND2	2:C:349:ALA:N	2.41	0.57
2:C:464:ARG:O	2:C:505:GLY:HA2	2.03	0.57
1:E:234:GLN:C	1:E:236:TRP:H	2.06	0.57
2:F:1055:ASP:O	2:F:1055:ASP:CG	2.42	0.57
2:F:109:THR:HG23	2:F:112:ARG:NH2	2.19	0.57
3:G:175:THR:HG22	3:G:176:GLY:N	2.20	0.57
3:G:278:MET:CG	4:Y:2:5IU:I5	3.22	0.57
1:B:631:LEU:O	1:B:631:LEU:HD23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:251:ILE:HB	2:C:286:LEU:HD13	1.87	0.57
2:C:338:ILE:HD11	2:C:755:ILE:HD13	1.85	0.57
3:D:91:VAL:HG13	3:D:100:MET:HE3	1.86	0.57
3:D:418:TYR:OH	3:D:530:HIS:HE1	1.87	0.57
1:E:253:ASP:O	1:E:256:LYS:HD2	2.04	0.57
1:E:307:HIS:HB3	1:E:308:PRO:HD2	1.85	0.57
1:E:365:GLU:HG3	1:E:366:SER:N	2.19	0.57
1:B:494:GLU:HB3	1:E:545:ASP:OD1	2.04	0.57
1:E:652:TRP:HA	1:E:656:GLY:O	2.04	0.57
1:E:739:VAL:HG22	1:E:740:THR:H	1.69	0.57
1:B:253:ASP:O	1:B:256:LYS:HD2	2.05	0.57
1:B:265:TRP:HD1	1:B:265:TRP:O	1.88	0.57
1:B:341:ARG:HA	1:B:344:ARG:HD2	1.87	0.57
2:C:141:TYR:O	2:C:142:ARG:HG2	2.04	0.57
3:D:330:SER:HB3	3:D:337:VAL:HG23	1.85	0.57
1:E:255:ARG:O	1:E:258:ASN:HB2	2.05	0.57
1:E:476:ILE:HG13	1:E:476:ILE:O	2.03	0.57
1:E:752:VAL:HG13	1:E:809:SER:CB	2.31	0.57
2:F:286:LEU:H	2:F:292:GLU:HA	1.67	0.57
2:F:767:LEU:HD23	2:F:767:LEU:N	2.20	0.57
3:G:301:LEU:H	3:G:568:THR:HG21	1.68	0.57
3:G:526:ARG:HA	3:G:526:ARG:NE	2.18	0.57
1:B:501:MET:HG3	1:B:815:LEU:CD2	2.33	0.57
2:C:137:GLN:HG2	2:C:697:MET:HE1	1.84	0.57
2:C:963:GLY:HA2	2:C:987:TYR:OH	2.04	0.57
3:D:253:LEU:HD13	3:D:255:HIS:CE1	2.39	0.57
1:E:278:ASN:O	1:E:284:GLU:HG2	2.05	0.57
1:E:558:VAL:CG2	1:E:563:GLU:HB3	2.35	0.57
2:F:104:GLU:HA	2:F:112:ARG:HH11	1.68	0.57
2:F:422:ILE:HD12	2:F:661:ILE:HG21	1.86	0.57
3:G:267:VAL:HG22	3:G:293:ILE:HB	1.87	0.57
1:B:1172:PHE:CG	1:B:1173:ALA:N	2.73	0.57
1:B:281:GLN:OE1	1:B:317:LEU:HD12	2.04	0.57
1:B:771:ARG:HD2	1:B:771:ARG:H	1.69	0.57
2:C:1080:MET:HG3	4:X:11:DA:C4	2.40	0.57
2:C:266:ARG:NH1	2:C:269:PHE:CD1	2.72	0.57
2:C:367:LEU:O	2:C:368:ASP:CB	2.53	0.57
3:D:239:THR:C	3:D:241:HIS:N	2.55	0.57
3:D:259:ASN:CB	3:D:260:PRO:HD2	2.11	0.57
1:E:1033:ALA:HA	1:E:1055:PHE:CZ	2.40	0.57
1:E:365:GLU:HG3	1:E:366:SER:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:763:GLN:HE21	1:E:763:GLN:HA	1.69	0.57
1:E:25:ALA:HB1	1:E:807:THR:HG23	1.85	0.57
2:F:251:ILE:HD13	2:F:252:LYS:N	2.19	0.57
2:F:994:GLY:O	2:F:1010:PRO:HB3	2.04	0.57
1:B:620:MET:HE3	1:B:687:ILE:HD13	1.85	0.57
2:C:263:ARG:HA	2:C:273:GLU:HG2	1.87	0.57
2:C:5:TYR:HE2	2:C:267:HIS:HD2	1.52	0.57
2:C:506:ILE:HG22	2:C:507:ASP:H	1.70	0.57
3:D:199:ILE:HA	3:D:265:VAL:HG13	1.85	0.57
3:D:41:LEU:O	3:D:44:HIS:HB3	2.05	0.57
1:E:341:ARG:HA	1:E:344:ARG:HD2	1.87	0.57
1:E:501:MET:HG3	1:E:815:LEU:CD2	2.35	0.57
2:F:1046:LEU:HD12	2:F:1117:PHE:CD2	2.39	0.57
3:G:62:GLU:O	3:G:69:ALA:HB2	2.04	0.57
4:Y:2:5IU:C3'	4:Y:3:5IU:C5'	2.82	0.57
1:B:278:ASN:O	1:B:284:GLU:HG2	2.05	0.57
2:C:246:TYR:CE2	2:C:275:PRO:HD3	2.40	0.57
3:D:243:LEU:HD12	3:D:261:LEU:CD2	2.33	0.57
1:E:286:LEU:HD21	1:E:306:ARG:O	2.04	0.57
1:E:761:ARG:HG3	1:E:822:ARG:NH2	2.20	0.57
1:E:83:LEU:HD13	1:E:114:LEU:HD11	1.85	0.57
2:F:185:HIS:H	2:F:188:ASN:ND2	2.03	0.57
2:F:28:ASP:N	2:F:29:PRO:CD	2.60	0.57
3:G:455:ASN:ND2	3:G:532:THR:O	2.37	0.57
1:B:657:VAL:HG21	1:B:707:LEU:CD1	2.35	0.57
3:D:243:LEU:CD1	3:D:244:LEU:CG	2.79	0.57
1:E:1027:ILE:HA	1:E:1172:PHE:CD1	2.40	0.57
2:F:1012:ALA:O	2:F:1014:GLU:N	2.38	0.57
2:F:767:LEU:O	2:F:768:ASN:HB2	2.04	0.57
2:F:939:GLN:HE21	2:F:940:SER:H	1.52	0.57
3:G:366:GLY:CA	3:G:393:ILE:HG21	2.35	0.57
3:G:79:GLN:C	3:G:81:TRP:H	2.09	0.57
1:B:604:MET:SD	1:B:704:GLU:HB2	2.45	0.56
1:B:739:VAL:HG22	1:B:740:THR:H	1.70	0.56
2:C:1012:ALA:O	2:C:1014:GLU:N	2.38	0.56
2:C:160:GLU:O	2:C:162:GLN:N	2.35	0.56
2:C:185:HIS:H	2:C:188:ASN:HD21	1.53	0.56
2:C:401:PRO:C	2:C:403:LEU:H	2.08	0.56
3:D:243:LEU:HD13	3:D:261:LEU:HD21	1.83	0.56
1:E:901:TRP:CZ3	1:E:1060:GLY:HA2	2.40	0.56
1:E:15:LEU:HD13	1:E:40:LEU:CD2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:GLU:CG	1:E:288:LYS:O	2.52	0.56
1:E:977:LEU:HD21	1:E:990:LEU:CD2	2.33	0.56
3:G:77:GLU:HG2	3:G:79:GLN:H	1.70	0.56
1:B:763:GLN:HE21	1:B:763:GLN:HA	1.70	0.56
2:C:251:ILE:HD13	2:C:256:TYR:HD2	1.69	0.56
2:C:367:LEU:HB3	2:C:761:LEU:HD23	1.85	0.56
3:D:201:LEU:HG	3:D:233:ILE:CG2	2.35	0.56
1:E:107:LYS:H	1:E:107:LYS:CD	2.17	0.56
1:E:148:PHE:N	2:F:126:GLN:HE22	2.03	0.56
1:E:184:PHE:CE1	1:E:188:LYS:HG2	2.40	0.56
1:E:208:ILE:O	1:E:211:PRO:HD3	2.06	0.56
2:F:199:SER:O	2:F:200:ALA:C	2.43	0.56
2:F:367:LEU:HB3	2:F:761:LEU:HD23	1.87	0.56
3:G:397:LEU:HD13	3:G:580:TYR:HE2	1.70	0.56
1:B:83:LEU:HD13	1:B:114:LEU:HD11	1.86	0.56
2:C:1055:ASP:O	2:C:1055:ASP:CG	2.42	0.56
2:C:104:GLU:HA	2:C:112:ARG:HH11	1.70	0.56
2:C:405:PRO:HG2	2:C:658:PRO:CB	2.35	0.56
2:C:410:VAL:HG13	2:C:676:CYS:HB2	1.86	0.56
3:D:366:GLY:C	3:D:393:ILE:HG21	2.26	0.56
3:D:530:HIS:CE1	3:D:534:TRP:HZ3	2.23	0.56
1:E:269:ILE:O	1:E:270:SER:HB2	2.06	0.56
1:E:604:MET:HG3	1:E:705:HIS:CE1	2.40	0.56
2:F:338:ILE:HD11	2:F:755:ILE:HD13	1.86	0.56
2:F:895:GLU:HG3	2:F:899:ARG:HH22	1.70	0.56
3:G:387:GLN:O	3:G:389:ASP:N	2.38	0.56
4:Y:1:5IU:O4'	4:Y:1:5IU:O2	2.24	0.56
2:C:25:ARG:O	2:C:26:LEU:HB3	2.05	0.56
1:E:1023:PHE:CZ	1:E:1064:GLY:HA3	2.40	0.56
1:E:153:ILE:HB	1:E:348:GLU:HB3	1.87	0.56
2:F:974:VAL:HB	2:F:1039:PRO:O	2.05	0.56
2:F:1072:LEU:O	2:F:1076:GLU:HG2	2.05	0.56
2:F:141:TYR:O	2:F:142:ARG:HG2	2.04	0.56
2:F:12:VAL:O	2:F:15:ALA:HB3	2.05	0.56
3:G:71:CYS:HB3	3:G:74:GLU:HB3	1.87	0.56
3:G:95:ASP:OD2	3:G:96:GLU:HG3	2.04	0.56
3:D:274:ILE:HA	4:X:2:5IU:I5	2.75	0.56
4:X:2:5IU:C3'	4:X:3:5IU:C5'	2.84	0.56
1:B:1068:LEU:HD23	1:B:1079:LEU:HD23	1.87	0.56
1:B:834:HIS:CE1	1:B:847:PRO:HB3	2.41	0.56
2:C:1051:ASP:HB3	2:C:1056:ALA:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:257:LEU:HD13	2:C:281:GLU:OE1	2.05	0.56
2:C:373:SER:HA	2:C:726:LYS:HD3	1.87	0.56
2:C:751:LEU:O	2:C:755:ILE:HG12	2.05	0.56
3:D:555:SER:O	3:D:585:ILE:HG13	2.06	0.56
1:E:375:ARG:HD2	1:E:404:GLN:HG2	1.88	0.56
2:F:342:ILE:HG21	2:F:721:ILE:HD11	1.87	0.56
2:F:72:MET:HE1	2:F:207:LEU:HB3	1.87	0.56
1:B:448:ARG:HG3	1:B:748:GLU:OE1	2.03	0.56
3:D:365:SER:HB3	3:D:390:PHE:CE2	2.40	0.56
1:E:507:GLU:HA	1:E:850:ALA:CB	2.35	0.56
2:F:155:VAL:H	2:F:162:GLN:NE2	2.02	0.56
2:F:98:LEU:HD21	2:F:175:TYR:CG	2.40	0.56
2:F:943:ILE:CD1	2:F:956:LEU:HG	2.35	0.56
3:G:213:THR:HG21	3:G:235:GLU:O	2.06	0.56
1:B:739:VAL:CG2	1:B:740:THR:N	2.69	0.56
2:C:1101:THR:O	2:C:1105:ILE:HG13	2.05	0.56
2:C:87:ASN:C	2:C:87:ASN:HD22	2.08	0.56
3:D:390:PHE:O	3:D:392:ASP:N	2.39	0.56
1:E:577:PRO:HB2	1:E:735:LEU:CD2	2.35	0.56
1:E:826:ASP:O	1:E:828:LYS:HG3	2.06	0.56
2:F:389:LEU:HD22	2:F:678:LEU:HD11	1.86	0.56
2:F:751:LEU:O	2:F:755:ILE:HG12	2.05	0.56
2:F:963:GLY:HA2	2:F:987:TYR:OH	2.05	0.56
2:F:997:ARG:HH11	2:F:997:ARG:HG2	1.70	0.56
1:B:920:LEU:HD23	2:C:650:ILE:CD1	2.36	0.56
2:C:856:ASN:O	2:C:858:ARG:N	2.38	0.56
3:D:271:ALA:C	3:D:273:MET:H	2.09	0.56
3:D:286:LEU:CD1	3:D:292:VAL:HG21	2.35	0.56
3:D:184:LEU:HD11	3:D:293:ILE:HD13	1.86	0.56
1:E:34:ALA:HB1	1:E:79:ASN:HD22	1.71	0.56
2:F:213:ILE:HB	2:F:238:LEU:HA	1.87	0.56
2:F:263:ARG:HA	2:F:273:GLU:HG2	1.87	0.56
1:E:1024:TYR:O	2:F:51:SER:HB2	2.06	0.56
3:G:245:GLY:O	3:G:253:LEU:HA	2.05	0.56
1:B:504:MET:HE3	1:B:514:TYR:HA	1.88	0.56
1:B:507:GLU:HA	1:B:850:ALA:CB	2.36	0.56
1:B:935:VAL:O	1:B:935:VAL:HG12	2.06	0.56
2:C:77:LEU:CD1	2:C:189:LEU:HG	2.35	0.56
1:B:699:THR:HG21	2:C:423:GLN:HE22	1.70	0.56
3:D:266:LEU:HD12	3:D:267:VAL:H	1.71	0.56
3:D:367:ILE:N	3:D:393:ILE:CG2	2.62	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:304:VAL:CG2	3:D:564:GLU:HG2	2.33	0.56
2:F:160:GLU:O	2:F:162:GLN:N	2.34	0.56
2:F:587:TRP:CH2	2:F:634:LEU:HG	2.39	0.56
2:F:656:ALA:O	2:F:658:PRO:CD	2.53	0.56
2:F:795:GLN:HB3	2:F:796:PRO:HD2	1.85	0.56
1:B:488:ARG:NH1	1:E:544:ASP:CA	2.68	0.56
1:B:854:ARG:HH11	1:B:854:ARG:HG2	1.71	0.56
2:F:689:LEU:HD22	2:F:708:ARG:HD2	1.86	0.56
2:F:856:ASN:O	2:F:858:ARG:N	2.35	0.56
2:F:895:GLU:OE1	2:F:895:GLU:HA	2.05	0.56
2:F:943:ILE:HD13	2:F:943:ILE:N	2.21	0.56
3:G:530:HIS:CE1	3:G:534:TRP:HZ3	2.23	0.56
4:X:20:DC:H2''	4:X:21:DT:OP2	2.05	0.56
4:Y:40:DT:H1'	4:Y:41:DC:H5'	1.88	0.56
1:B:544:ASP:OD1	1:E:488:ARG:NH1	2.39	0.56
2:C:838:GLN:HB3	2:C:979:GLN:NE2	2.20	0.56
3:D:156:VAL:O	3:D:160:VAL:HG23	2.05	0.56
1:E:29:LYS:HD3	1:E:33:ILE:HD11	1.88	0.56
2:F:5:TYR:HE2	2:F:267:HIS:HD2	1.53	0.56
2:F:87:ASN:C	2:F:87:ASN:HD22	2.10	0.56
3:G:440:LEU:HB2	3:G:535:ALA:HA	1.88	0.56
1:B:1021:MET:CE	1:B:1069:VAL:HG21	2.35	0.55
1:B:1061:MET:HE3	2:C:48:MET:HA	1.88	0.55
1:B:121:MET:C	1:B:123:GLU:H	2.08	0.55
1:B:269:ILE:O	1:B:270:SER:HB2	2.07	0.55
1:B:46:GLY:N	1:B:49:ALA:HB2	2.21	0.55
1:B:476:ILE:O	1:B:476:ILE:HG13	2.04	0.55
1:B:709:ARG:NH2	2:C:487:GLU:OE2	2.40	0.55
1:B:936:GLU:O	1:B:937:GLU:C	2.45	0.55
1:B:947:ARG:CD	1:B:947:ARG:N	2.69	0.55
2:C:335:LEU:HA	2:C:374:ILE:CD1	2.36	0.55
2:C:712:ASP:O	2:C:715:LEU:HB2	2.06	0.55
2:C:334:LEU:HD11	2:C:755:ILE:HG23	1.88	0.55
2:C:795:GLN:HB3	2:C:796:PRO:HD2	1.87	0.55
3:D:151:ILE:O	3:D:151:ILE:HG23	2.05	0.55
2:F:989:ALA:C	2:F:991:GLY:N	2.60	0.55
3:G:201:LEU:HG	3:G:233:ILE:CG2	2.36	0.55
2:C:213:ILE:HB	2:C:238:LEU:HA	1.87	0.55
2:C:767:LEU:N	2:C:767:LEU:HD23	2.22	0.55
2:C:895:GLU:OE1	2:C:895:GLU:HA	2.06	0.55
2:C:989:ALA:C	2:C:991:GLY:N	2.57	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:247:GLN:HG2	4:X:5:5IU:C5'	2.34	0.55
3:D:345:ALA:HB3	3:D:349:ARG:CG	2.32	0.55
3:D:367:ILE:HG13	3:D:393:ILE:CG2	2.36	0.55
3:D:417:ARG:HH21	3:D:576:ARG:NH2	2.03	0.55
1:E:119:ARG:HD3	2:F:302:SER:HB3	1.89	0.55
1:E:739:VAL:CG2	1:E:740:THR:N	2.68	0.55
2:F:539:SER:HA	2:F:549:PRO:HG2	1.88	0.55
3:G:134:GLU:HB3	3:G:332:LEU:HD23	1.86	0.55
3:G:77:GLU:C	3:G:79:GLN:H	2.10	0.55
1:B:40:LEU:HD13	1:B:59:LEU:HD22	1.88	0.55
1:B:148:PHE:H	2:C:126:GLN:NE2	2.04	0.55
2:C:12:VAL:O	2:C:15:ALA:HB3	2.06	0.55
2:C:164:TRP:C	2:C:167:PRO:HD2	2.27	0.55
1:E:514:TYR:CG	1:E:514:TYR:O	2.59	0.55
1:E:647:GLY:O	1:E:651:ILE:HG12	2.06	0.55
2:F:989:ALA:O	2:F:991:GLY:N	2.39	0.55
3:G:243:LEU:HD12	3:G:261:LEU:CD2	2.34	0.55
3:G:255:HIS:HB2	3:G:285:ALA:HB1	1.87	0.55
1:B:685:THR:HG21	1:B:729:LEU:HD12	1.89	0.55
2:C:895:GLU:HG3	2:C:899:ARG:HH22	1.71	0.55
3:D:19:LEU:HD23	3:D:19:LEU:O	2.06	0.55
3:D:300:GLN:CD	3:D:568:THR:HG22	2.27	0.55
1:E:1131:TYR:OH	1:E:1160:PRO:HB2	2.06	0.55
2:F:104:GLU:N	2:F:112:ARG:HG3	2.13	0.55
2:F:137:GLN:CG	2:F:697:MET:HE1	2.37	0.55
2:F:26:LEU:HB2	2:F:210:ARG:HH22	1.70	0.55
2:F:442:ARG:HG3	2:F:442:ARG:NH1	2.21	0.55
3:G:151:ILE:HG23	3:G:151:ILE:O	2.05	0.55
4:X:47:DA:C2'	4:X:48:DG:O5'	2.50	0.55
1:B:107:LYS:CD	1:B:107:LYS:H	2.18	0.55
2:C:1114:LEU:N	2:C:1115:PRO:HD2	2.21	0.55
1:B:920:LEU:HD21	2:C:448:HIS:CE1	2.42	0.55
3:D:213:THR:HG21	3:D:235:GLU:O	2.07	0.55
3:D:256:HIS:CD2	3:D:257:ALA:H	2.24	0.55
3:D:301:LEU:H	3:D:568:THR:HG21	1.72	0.55
3:D:455:ASN:ND2	3:D:532:THR:O	2.40	0.55
1:E:377:ARG:HH11	1:E:377:ARG:HG3	1.71	0.55
2:F:204:PRO:HB3	2:F:233:HIS:HB3	1.89	0.55
2:F:401:PRO:C	2:F:403:LEU:H	2.09	0.55
2:F:838:GLN:HB3	2:F:979:GLN:HE22	1.69	0.55
3:G:316:TYR:CE1	3:G:604:PHE:CB	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:18:DC:H4'	4:X:19:DA:OP1	2.07	0.55
1:B:561:ARG:NH2	1:B:584:ARG:H	2.01	0.55
1:B:752:VAL:HG13	1:B:809:SER:CB	2.32	0.55
1:B:826:ASP:O	1:B:828:LYS:HG3	2.07	0.55
2:C:522:HIS:HE1	2:C:905:GLY:O	1.90	0.55
1:E:558:VAL:HG22	1:E:563:GLU:CB	2.35	0.55
1:E:645:PHE:HA	1:E:648:TYR:HD2	1.71	0.55
1:E:34:ALA:HB1	1:E:79:ASN:ND2	2.20	0.55
2:F:465:PHE:CE1	2:F:575:ARG:HD2	2.42	0.55
3:G:199:ILE:HA	3:G:265:VAL:HG13	1.88	0.55
1:B:1109:LEU:CD2	1:B:1113:LEU:HG	2.35	0.55
1:B:184:PHE:CE1	1:B:188:LYS:HG2	2.42	0.55
1:B:284:GLU:HG3	1:B:285:SER:N	2.22	0.55
2:C:572:ASN:HD22	2:C:575:ARG:HG2	1.71	0.55
2:C:664:LEU:N	2:C:664:LEU:HD12	2.22	0.55
3:D:312:ASP:OD1	3:D:596:ARG:HD3	2.06	0.55
1:E:1172:PHE:CG	1:E:1173:ALA:N	2.74	0.55
1:E:222:HIS:CD2	1:E:272:TRP:HH2	2.23	0.55
2:F:584:LEU:HD22	2:F:632:VAL:HG21	1.88	0.55
3:G:91:VAL:HG12	3:G:100:MET:CB	2.36	0.55
3:G:390:PHE:O	3:G:392:ASP:N	2.39	0.55
1:B:1032:ILE:N	1:B:1032:ILE:HD12	2.21	0.55
1:B:444:ASP:OD2	1:B:445:THR:HG22	2.07	0.55
1:B:649:ARG:HG3	1:B:650:GLN:H	1.70	0.55
1:B:555:SER:HB2	1:B:749:TYR:CD2	2.42	0.55
2:C:199:SER:O	2:C:200:ALA:C	2.45	0.55
2:C:641:LEU:HD22	2:C:645:LEU:HD22	1.88	0.55
3:D:166:ILE:HD12	3:D:166:ILE:N	2.21	0.55
3:D:524:PRO:HD2	3:D:527:LEU:HD12	1.89	0.55
1:E:561:ARG:O	1:E:564:ALA:HB3	2.07	0.55
2:F:972:LEU:HA	2:F:1000:LEU:CD1	2.37	0.55
2:F:8:ASN:HD21	2:F:343:LEU:HD11	1.72	0.55
2:F:539:SER:HB2	2:F:551:ASP:OD2	2.06	0.55
3:G:31:GLU:O	3:G:32:HIS:C	2.45	0.55
1:B:1131:TYR:CZ	1:B:1135:PHE:HD1	2.24	0.55
2:C:396:MET:HE2	2:C:674:VAL:CG2	2.37	0.55
3:D:279:MET:O	3:D:282:LEU:N	2.40	0.55
3:D:164:ARG:HG3	3:D:351:SER:HB3	1.88	0.55
3:D:157:ALA:CB	3:D:355:LEU:HD21	2.37	0.55
3:D:387:GLN:O	3:D:389:ASP:N	2.39	0.55
3:D:91:VAL:CA	3:D:98:THR:HG21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:966:GLN:HB3	1:E:967:PRO:CD	2.34	0.55
2:F:396:MET:HE2	2:F:674:VAL:CG2	2.37	0.55
1:B:1027:ILE:HA	1:B:1172:PHE:CD1	2.42	0.55
1:B:153:ILE:HG22	1:B:349:LEU:C	2.27	0.55
2:C:347:ASN:C	2:C:347:ASN:ND2	2.58	0.55
2:C:465:PHE:CE1	2:C:575:ARG:HD2	2.42	0.55
3:D:123:PHE:HB2	3:D:604:PHE:HE2	1.72	0.55
3:D:244:LEU:HD21	3:D:261:LEU:CD2	2.37	0.55
3:D:27:VAL:CG1	3:D:90:ALA:HB1	2.37	0.55
1:E:1131:TYR:CZ	1:E:1135:PHE:HD1	2.24	0.55
3:G:225:LEU:HD23	3:G:225:LEU:C	2.28	0.55
3:G:164:ARG:HG3	3:G:351:SER:HB3	1.87	0.55
3:G:417:ARG:HH11	3:G:437:GLU:HB3	1.72	0.55
1:B:153:ILE:HB	1:B:348:GLU:HB3	1.88	0.54
1:B:222:HIS:CD2	1:B:272:TRP:HH2	2.24	0.54
2:C:1027:TYR:O	2:C:1031:MET:HG2	2.07	0.54
2:C:52:GLN:O	2:C:54:PHE:N	2.36	0.54
3:D:526:ARG:HH11	3:D:536:MET:HG2	1.71	0.54
1:E:121:MET:C	1:E:123:GLU:H	2.10	0.54
2:F:8:ASN:ND2	2:F:343:LEU:HD11	2.23	0.54
4:Y:6:DA:C2'	4:Y:6:DA:N3	2.65	0.54
1:B:136:MET:CE	1:B:374:ILE:HG12	2.37	0.54
1:B:426:ASP:OD1	1:B:428:PHE:HB2	2.07	0.54
1:B:799:LEU:HA	1:B:837:ALA:HB1	1.89	0.54
1:B:954:PHE:O	1:B:957:SER:HB3	2.08	0.54
3:D:201:LEU:CD2	3:D:233:ILE:HG21	2.37	0.54
1:E:500:LYS:NZ	1:E:868:GLN:HG3	2.22	0.54
2:F:393:LEU:HD22	2:F:408:ILE:HD13	1.88	0.54
3:G:184:LEU:HD11	3:G:293:ILE:HD13	1.87	0.54
3:G:41:LEU:O	3:G:44:HIS:HB3	2.07	0.54
3:G:93:ARG:HH11	3:G:93:ARG:HG2	1.71	0.54
1:B:332:LEU:O	1:B:336:ARG:HG3	2.07	0.54
1:B:365:GLU:HG3	1:B:366:SER:N	2.21	0.54
1:B:916:ILE:CG2	2:C:448:HIS:NE2	2.70	0.54
1:B:170:ARG:HA	2:C:517:PRO:HG2	1.89	0.54
3:D:118:THR:HG22	3:D:283:ILE:CD1	2.04	0.54
3:D:175:THR:HG22	3:D:176:GLY:N	2.22	0.54
3:D:178:THR:HG23	3:D:179:THR:HG23	1.88	0.54
1:E:150:GLN:HA	1:E:150:GLN:HE21	1.72	0.54
1:E:222:HIS:CE1	1:E:226:VAL:HG21	2.42	0.54
1:E:869:THR:O	1:E:871:GLN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:947:ARG:N	1:E:947:ARG:CD	2.69	0.54
2:F:382:PRO:HB2	2:F:421:PHE:CD1	2.41	0.54
2:F:611:LEU:HD23	2:F:611:LEU:O	2.07	0.54
2:F:971:LEU:HD23	4:Y:10:DA:C5'	2.33	0.54
1:B:365:GLU:C	1:B:367:GLY:H	2.11	0.54
1:B:924:LEU:CD1	2:C:607:ALA:HA	2.37	0.54
2:C:530:ARG:NE	2:C:548:LEU:O	2.35	0.54
2:C:55:GLY:O	2:C:56:ILE:HB	2.06	0.54
3:D:75:ILE:HB	3:D:78:LEU:CD1	2.37	0.54
1:E:799:LEU:HA	1:E:837:ALA:HB1	1.89	0.54
1:E:854:ARG:HH11	1:E:854:ARG:HG2	1.72	0.54
2:F:1077:GLY:H	2:F:1083:GLY:H	1.55	0.54
2:F:277:PHE:CE1	2:F:278:ARG:HG3	2.42	0.54
2:F:910:GLY:O	2:F:913:GLY:N	2.40	0.54
3:G:361:PHE:C	3:G:361:PHE:CD1	2.80	0.54
4:X:13:DG:H2''	4:X:14:DC:OP2	2.07	0.54
4:X:40:DT:H1'	4:X:41:DC:H5'	1.88	0.54
4:X:6:DA:N3	4:X:6:DA:C2'	2.64	0.54
1:B:187:TRP:HZ3	1:B:196:ASP:OD2	1.91	0.54
1:B:159:LEU:HD21	1:B:342:GLU:CG	2.37	0.54
1:B:459:LYS:HD3	1:B:865:ILE:HD12	1.90	0.54
3:D:307:GLY:C	3:D:597:ARG:NH2	2.61	0.54
3:D:533:THR:O	3:D:535:ALA:N	2.34	0.54
2:F:194:ILE:HG23	2:F:229:ALA:HB2	1.89	0.54
2:F:347:ASN:ND2	2:F:347:ASN:C	2.59	0.54
2:F:4:VAL:O	2:F:322:GLU:HA	2.07	0.54
2:F:537:MET:HA	3:G:110:ASN:HB3	1.90	0.54
3:G:208:ALA:HB2	3:G:270:GLU:HG3	1.88	0.54
3:G:370:LEU:HD22	3:G:394:GLU:OE2	2.07	0.54
3:G:300:GLN:CG	3:G:568:THR:HG22	2.37	0.54
4:X:46:5IU:H2''	4:X:47:DA:O4'	2.07	0.54
1:B:29:LYS:O	1:B:33:ILE:HG13	2.08	0.54
1:B:423:ARG:O	1:B:423:ARG:CD	2.56	0.54
2:C:943:ILE:CD1	2:C:956:LEU:HG	2.36	0.54
3:D:247:GLN:O	3:D:251:GLN:HG2	2.07	0.54
2:F:25:ARG:O	2:F:26:LEU:HB3	2.07	0.54
3:G:526:ARG:HH12	3:G:536:MET:CE	2.20	0.54
4:Y:13:DG:H2''	4:Y:14:DC:OP2	2.07	0.54
1:B:1044:ASP:HB3	1:B:1047:SER:OG	2.06	0.54
1:B:281:GLN:CB	1:B:283:PRO:HD2	2.35	0.54
1:B:488:ARG:HH12	1:E:544:ASP:CA	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:828:LEU:HD22	2:C:1028:ARG:HD3	1.90	0.54
2:C:1040:GLU:HB2	2:C:1084:GLU:OE1	2.06	0.54
2:C:469:ASP:O	2:C:472:ALA:HB3	2.07	0.54
1:B:675:LEU:CD1	2:C:809:ALA:HB1	2.37	0.54
3:D:554:PRO:HD2	3:D:561:VAL:HG21	1.88	0.54
1:E:259:ARG:O	1:E:262:GLN:NE2	2.40	0.54
1:E:763:GLN:NE2	1:E:765:GLN:H	2.03	0.54
2:F:199:SER:O	2:F:201:THR:N	2.41	0.54
2:F:28:ASP:N	2:F:29:PRO:HD2	2.22	0.54
2:F:304:GLY:HA2	2:F:714:TYR:CD1	2.40	0.54
2:F:795:GLN:HB3	2:F:796:PRO:CD	2.38	0.54
1:B:1018:GLN:NE2	2:C:30:PHE:O	2.40	0.54
1:B:647:GLY:O	1:B:651:ILE:HG12	2.08	0.54
1:B:763:GLN:NE2	1:B:765:GLN:H	2.02	0.54
1:B:869:THR:O	1:B:871:GLN:N	2.40	0.54
2:C:155:VAL:H	2:C:162:GLN:NE2	2.06	0.54
2:C:17:MET:HG3	2:C:212:PHE:CE2	2.43	0.54
1:E:935:VAL:HG12	1:E:935:VAL:O	2.07	0.54
2:F:1013:ALA:O	2:F:1017:LEU:HD23	2.07	0.54
2:F:828:LEU:HD22	2:F:1028:ARG:HD3	1.87	0.54
2:F:1055:ASP:CB	2:F:1118:ARG:NH2	2.69	0.54
2:F:258:ALA:HA	2:F:261:LEU:CG	2.36	0.54
3:G:561:VAL:HG12	3:G:589:ALA:CB	2.37	0.54
1:B:365:GLU:HG3	1:B:366:SER:H	1.72	0.54
2:C:104:GLU:CA	2:C:112:ARG:NH1	2.70	0.54
2:C:59:ASN:O	2:C:60:ILE:O	2.26	0.54
2:C:94:LYS:O	2:C:98:LEU:HG	2.08	0.54
1:E:909:LEU:HD22	1:E:1054:GLU:CD	2.27	0.54
1:E:398:ARG:HB2	1:E:402:HIS:HB2	1.90	0.54
1:E:459:LYS:HD3	1:E:865:ILE:HD12	1.89	0.54
2:F:246:TYR:CE2	2:F:275:PRO:HD3	2.43	0.54
1:E:740:THR:OG1	4:Y:49:DA:OP1	2.13	0.54
1:B:577:PRO:HB2	1:B:735:LEU:CD2	2.39	0.54
1:B:763:GLN:NE2	1:B:764:GLU:N	2.56	0.54
2:C:1039:PRO:HA	2:C:1113:LEU:HD11	1.90	0.54
2:C:17:MET:HG3	2:C:212:PHE:CD2	2.43	0.54
2:C:52:GLN:C	2:C:54:PHE:H	2.12	0.54
3:D:246:ALA:HA	3:D:253:LEU:HD23	1.90	0.54
1:E:1044:ASP:HB3	1:E:1047:SER:OG	2.07	0.54
1:E:139:LEU:HD21	1:E:377:ARG:HH12	1.72	0.54
1:E:86:ALA:HB1	1:E:92:THR:HG1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:155:VAL:N	2:F:162:GLN:HE22	2.06	0.54
2:F:881:ASN:O	2:F:885:LEU:HB2	2.08	0.54
3:G:220:LEU:HA	3:G:223:LEU:HD21	1.90	0.54
3:G:526:ARG:HH22	3:G:533:THR:HG21	1.71	0.54
1:B:150:GLN:HE21	1:B:150:GLN:HA	1.71	0.53
1:B:236:TRP:O	1:B:240:VAL:CG2	2.53	0.53
2:C:422:ILE:HD12	2:C:661:ILE:HG21	1.90	0.53
2:C:989:ALA:HB1	2:C:1017:LEU:HD22	1.90	0.53
3:D:208:ALA:HB2	3:D:270:GLU:HG3	1.88	0.53
2:F:253:ASP:C	2:F:255:ALA:N	2.55	0.53
2:F:306:LEU:HD23	2:F:306:LEU:C	2.28	0.53
2:F:410:VAL:HG13	2:F:676:CYS:HB2	1.90	0.53
2:F:699:GLN:O	2:F:701:PRO:HD3	2.08	0.53
3:G:213:THR:HG21	3:G:235:GLU:C	2.27	0.53
3:G:188:LEU:HD21	3:G:291:ARG:HH22	1.73	0.53
3:G:554:PRO:CD	3:G:561:VAL:HG21	2.38	0.53
3:G:562:THR:HG21	3:G:594:THR:HA	1.90	0.53
1:B:56:VAL:HG12	1:B:124:ALA:HA	1.90	0.53
1:B:390:ASP:HA	1:B:429:THR:HG21	1.90	0.53
2:C:1077:GLY:H	2:C:1083:GLY:H	1.55	0.53
2:C:335:LEU:HD22	2:C:339:GLN:OE1	2.08	0.53
2:C:33:GLU:O	2:C:60:ILE:HA	2.08	0.53
2:C:795:GLN:HB3	2:C:796:PRO:CD	2.37	0.53
2:C:796:PRO:HA	2:C:800:GLN:NE2	2.22	0.53
2:C:951:GLN:C	2:C:952:ILE:HD13	2.29	0.53
1:E:29:LYS:O	1:E:33:ILE:HG13	2.07	0.53
1:E:40:LEU:HD13	1:E:59:LEU:HD22	1.91	0.53
1:E:936:GLU:O	1:E:937:GLU:C	2.45	0.53
2:F:1055:ASP:CB	2:F:1118:ARG:HH22	2.13	0.53
2:F:536:ALA:O	2:F:537:MET:C	2.46	0.53
3:G:50:HIS:CE1	3:G:306:ALA:HB2	2.43	0.53
2:F:971:LEU:CD2	4:Y:10:DA:H5'	2.31	0.53
1:B:16:GLN:O	1:B:16:GLN:HG3	2.09	0.53
1:B:233:LYS:HZ2	1:B:269:ILE:HG12	1.71	0.53
1:B:377:ARG:HH11	1:B:377:ARG:HG3	1.71	0.53
1:B:558:VAL:O	1:B:740:THR:HA	2.08	0.53
1:B:957:SER:O	1:B:960:GLU:HB2	2.08	0.53
3:D:213:THR:HG21	3:D:235:GLU:C	2.28	0.53
3:D:256:HIS:O	3:D:285:ALA:HA	2.09	0.53
1:E:1021:MET:CE	1:E:1069:VAL:HG21	2.38	0.53
1:E:365:GLU:C	1:E:367:GLY:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:700:GLN:O	1:E:701:LEU:HD23	2.08	0.53
2:F:1101:THR:O	2:F:1105:ILE:HG13	2.09	0.53
1:B:1061:MET:HG3	2:C:48:MET:CE	2.39	0.53
1:B:363:ARG:HG3	1:B:364:SER:N	2.24	0.53
2:C:251:ILE:HD13	2:C:256:TYR:CD2	2.43	0.53
2:C:537:MET:HE3	2:C:544:TRP:HB2	1.90	0.53
2:C:939:GLN:HE21	2:C:940:SER:H	1.57	0.53
3:D:181:VAL:HG21	3:D:295:LEU:HD13	1.90	0.53
3:D:77:GLU:C	3:D:79:GLN:H	2.10	0.53
1:E:423:ARG:O	1:E:423:ARG:CD	2.56	0.53
2:F:77:LEU:CD2	2:F:196:THR:HG21	2.37	0.53
2:F:200:ALA:O	2:F:202:THR:N	2.42	0.53
1:E:1061:MET:HE1	2:F:52:GLN:HG3	1.91	0.53
2:F:572:ASN:HD22	2:F:575:ARG:HG2	1.73	0.53
2:F:966:ARG:HH11	2:F:983:GLU:CD	2.11	0.53
3:G:52:CYS:HB3	3:G:108:TYR:CD2	2.43	0.53
3:G:255:HIS:HB3	3:G:260:PRO:HG2	1.89	0.53
4:Y:46:5IU:H2''	4:Y:47:DA:O4'	2.08	0.53
1:B:1172:PHE:CZ	1:B:1173:ALA:HB2	2.43	0.53
2:C:1060:ASP:OD2	2:C:1062:SER:OG	2.25	0.53
2:C:28:ASP:H	2:C:29:PRO:HD3	1.71	0.53
2:C:584:LEU:HD22	2:C:632:VAL:HG21	1.91	0.53
3:D:321:PHE:CE2	3:D:329:LEU:HD11	2.43	0.53
1:E:1168:MET:O	1:E:1171:MET:HB3	2.08	0.53
1:E:61:VAL:HB	1:E:126:VAL:HG13	1.90	0.53
1:E:704:GLU:CD	1:E:704:GLU:H	2.10	0.53
2:F:86:PHE:CZ	2:F:176:THR:HG21	2.44	0.53
3:G:354:LEU:HD12	3:G:354:LEU:H	1.74	0.53
3:G:462:MET:O	3:G:466:ARG:HA	2.09	0.53
3:G:91:VAL:CA	3:G:98:THR:HG21	2.38	0.53
1:B:527:ARG:HG2	1:B:527:ARG:HH11	1.73	0.53
1:B:876:GLN:N	1:B:877:PRO:HD2	2.24	0.53
2:C:947:CYS:SG	2:C:1021:SER:OG	2.67	0.53
2:C:972:LEU:HD23	2:C:973:SER:N	2.23	0.53
3:D:243:LEU:CD1	3:D:261:LEU:CD2	2.79	0.53
3:D:554:PRO:CD	3:D:561:VAL:HG21	2.38	0.53
1:E:190:PRO:HG3	2:F:870:PHE:CE1	2.43	0.53
1:E:658:MET:HB2	1:E:695:GLN:HG3	1.90	0.53
1:E:781:ASN:O	1:E:783:ALA:N	2.39	0.53
2:F:251:ILE:HD13	2:F:256:TYR:CD2	2.43	0.53
2:F:265:ARG:HG2	2:F:266:ARG:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:271:ALA:O	3:G:273:MET:N	2.42	0.53
3:G:554:PRO:HD2	3:G:561:VAL:HG21	1.91	0.53
3:G:77:GLU:O	3:G:79:GLN:N	2.42	0.53
1:B:591:LEU:O	1:B:595:GLU:HG3	2.08	0.53
2:C:278:ARG:O	2:C:280:SER:N	2.41	0.53
3:D:91:VAL:HG12	3:D:100:MET:HB3	1.90	0.53
3:D:242:ARG:O	3:D:245:GLY:N	2.42	0.53
3:D:412:LEU:CD1	3:D:461:PHE:HD2	2.21	0.53
3:D:77:GLU:HG2	3:D:79:GLN:H	1.72	0.53
1:E:159:LEU:HD21	1:E:342:GLU:CG	2.39	0.53
1:E:50:PHE:HE2	1:E:52:ARG:HD3	1.73	0.53
1:E:739:VAL:CG2	1:E:740:THR:H	2.21	0.53
2:F:1027:TYR:O	2:F:1031:MET:HG2	2.09	0.53
2:F:396:MET:HE3	2:F:726:LYS:HG3	1.89	0.53
3:G:201:LEU:CD2	3:G:233:ILE:HG21	2.39	0.53
3:G:562:THR:OG1	3:G:594:THR:HG23	2.08	0.53
1:B:15:LEU:HD13	1:B:40:LEU:CD2	2.39	0.53
1:B:732:ASP:OD1	1:B:735:LEU:HD12	2.08	0.53
1:B:739:VAL:CG2	1:B:740:THR:H	2.21	0.53
2:C:239:LEU:HD12	2:C:239:LEU:N	2.23	0.53
2:C:966:ARG:HH11	2:C:983:GLU:CD	2.11	0.53
3:D:181:VAL:HG21	3:D:295:LEU:CD1	2.38	0.53
3:D:526:ARG:NH1	3:D:536:MET:HG2	2.24	0.53
1:E:1076:TYR:HD1	1:E:1122:LEU:HD13	1.74	0.53
1:E:46:GLY:N	1:E:49:ALA:HB2	2.24	0.53
1:E:602:ALA:HB2	1:E:615:ALA:HB2	1.91	0.53
2:F:17:MET:HG3	2:F:212:PHE:CD2	2.44	0.53
2:F:17:MET:HG3	2:F:212:PHE:CE2	2.44	0.53
3:G:240:LEU:HD21	3:G:274:ILE:HD12	1.90	0.53
3:G:321:PHE:CE2	3:G:329:LEU:HD11	2.44	0.53
3:G:330:SER:HB3	3:G:337:VAL:N	2.24	0.53
4:X:7:5IU:C3'	4:X:8:DC:H5'	2.18	0.53
1:B:558:VAL:HG22	1:B:563:GLU:CB	2.38	0.53
1:B:25:ALA:HB1	1:B:807:THR:HG21	1.90	0.53
1:B:807:THR:HG22	1:B:808:ARG:NH2	2.23	0.53
2:C:81:PRO:HG3	2:C:182:PRO:CB	2.38	0.53
3:D:93:ARG:HH11	3:D:93:ARG:HG2	1.72	0.53
1:E:1032:ILE:N	1:E:1032:ILE:HD12	2.23	0.53
1:E:16:GLN:O	1:E:16:GLN:HG3	2.09	0.53
1:E:423:ARG:O	1:E:423:ARG:HD2	2.09	0.53
1:E:491:PHE:O	1:E:493:GLY:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:987:GLU:O	1:E:991:THR:HG22	2.08	0.53
2:F:245:ARG:HD3	2:F:344:GLU:OE2	2.08	0.53
2:F:483:PHE:CE2	2:F:567:LEU:HA	2.43	0.53
3:G:109:LEU:O	3:G:110:ASN:C	2.47	0.53
1:B:1168:MET:O	1:B:1171:MET:HB3	2.09	0.53
1:B:342:GLU:HA	1:B:342:GLU:OE2	2.09	0.53
1:B:442:THR:HG22	1:B:443:LEU:N	2.23	0.53
2:C:199:SER:OG	2:C:200:ALA:N	2.42	0.53
2:C:580:GLN:O	2:C:582:ARG:HD2	2.09	0.53
2:C:881:ASN:O	2:C:885:LEU:HB2	2.09	0.53
2:C:964:LEU:O	2:C:996:SER:HA	2.09	0.53
3:D:264:ASP:O	3:D:291:ARG:N	2.41	0.53
1:B:494:GLU:CB	1:E:545:ASP:OD1	2.57	0.53
1:E:823:ARG:HH22	1:E:828:LYS:HZ3	1.55	0.53
3:G:593:ARG:O	3:G:594:THR:C	2.48	0.53
1:B:1109:LEU:HA	1:B:1112:GLN:OE1	2.08	0.52
1:B:198:ASN:O	1:B:200:TYR:O	2.26	0.52
1:B:490:VAL:HG12	1:B:495:THR:CG2	2.38	0.52
1:B:893:LEU:HB3	2:C:802:TYR:HE2	1.73	0.52
2:C:536:ALA:O	2:C:537:MET:C	2.47	0.52
2:C:97:THR:HG23	2:C:628:TYR:CD1	2.44	0.52
3:D:17:ARG:HB2	3:D:18:PRO:CD	2.35	0.52
3:D:207:LYS:HE2	3:D:211:ARG:NH2	2.24	0.52
3:D:266:LEU:HD12	3:D:267:VAL:N	2.24	0.52
1:E:65:THR:HG22	1:E:67:ALA:N	2.24	0.52
1:E:555:SER:HB2	1:E:749:TYR:CD2	2.44	0.52
2:F:278:ARG:O	2:F:280:SER:N	2.42	0.52
2:F:97:THR:HG23	2:F:628:TYR:CE1	2.44	0.52
1:B:730:GLU:HB2	2:C:786:ARG:CD	2.37	0.52
1:B:815:LEU:HD13	1:B:815:LEU:H	1.74	0.52
2:C:292:GLU:HB3	2:C:295:VAL:HG22	1.90	0.52
2:C:244:CYS:SG	2:C:345:LEU:HB2	2.49	0.52
3:D:274:ILE:HG21	3:D:279:MET:HG2	1.91	0.52
3:D:91:VAL:CG1	3:D:100:MET:HB2	2.39	0.52
1:E:470:PHE:O	1:E:472:GLU:N	2.42	0.52
1:E:677:THR:O	1:E:678:ALA:O	2.27	0.52
1:E:558:VAL:O	1:E:740:THR:HA	2.09	0.52
1:E:763:GLN:NE2	1:E:764:GLU:N	2.57	0.52
1:E:815:LEU:H	1:E:815:LEU:HD13	1.74	0.52
2:F:104:GLU:CA	2:F:112:ARG:NH1	2.70	0.52
2:F:344:GLU:HB3	2:F:346:GLU:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:GLN:OE1	2:F:65:PRO:HG2	2.08	0.52
2:F:557:ILE:HG23	4:Y:1:5IU:I5	2.79	0.52
2:F:580:GLN:O	2:F:582:ARG:HD2	2.09	0.52
2:F:664:LEU:N	2:F:664:LEU:HD12	2.24	0.52
2:F:839:ARG:HB3	4:Y:7:5IU:I5	2.79	0.52
3:G:254:ARG:HG2	3:G:259:ASN:ND2	2.24	0.52
1:B:1076:TYR:HD1	1:B:1122:LEU:HD13	1.73	0.52
1:B:1131:TYR:OH	1:B:1160:PRO:HB2	2.08	0.52
1:B:281:GLN:HE21	1:B:283:PRO:HG2	1.75	0.52
1:B:398:ARG:HB2	1:B:402:HIS:HB2	1.91	0.52
1:B:46:GLY:H	1:B:49:ALA:HB2	1.74	0.52
1:B:799:LEU:HD23	1:B:837:ALA:CB	2.39	0.52
2:C:185:HIS:H	2:C:188:ASN:ND2	2.06	0.52
2:C:306:LEU:C	2:C:306:LEU:HD23	2.30	0.52
2:C:768:ASN:HB3	2:C:771:GLU:HB2	1.91	0.52
1:E:1098:MET:HE1	1:E:1156:TYR:HB2	1.91	0.52
1:E:342:GLU:HA	1:E:342:GLU:OE2	2.09	0.52
1:E:39:ARG:HG3	1:E:39:ARG:HH11	1.73	0.52
1:E:649:ARG:HG3	1:E:650:GLN:H	1.73	0.52
1:E:804:VAL:O	1:E:808:ARG:HG2	2.09	0.52
1:E:878:TRP:O	1:E:878:TRP:CE3	2.62	0.52
2:F:254:PRO:HA	2:F:257:LEU:HD23	1.90	0.52
2:F:469:ASP:O	2:F:472:ALA:HB3	2.08	0.52
2:F:505:GLY:O	2:F:523:THR:HB	2.10	0.52
3:G:385:VAL:CG2	3:G:396:ARG:CZ	2.86	0.52
1:B:153:ILE:HD12	1:B:154:GLU:OE2	2.09	0.52
1:B:255:ARG:O	1:B:258:ASN:HB2	2.09	0.52
1:B:600:LEU:O	1:B:604:MET:HB2	2.09	0.52
1:B:977:LEU:HD21	1:B:990:LEU:CD2	2.36	0.52
2:C:551:ASP:OD2	2:C:551:ASP:N	2.33	0.52
2:C:699:GLN:C	2:C:701:PRO:HD3	2.30	0.52
2:C:838:GLN:HB3	2:C:979:GLN:HE22	1.75	0.52
2:C:989:ALA:CB	2:C:1017:LEU:HD22	2.39	0.52
3:D:286:LEU:HD13	3:D:292:VAL:CG2	2.39	0.52
1:E:236:TRP:O	1:E:240:VAL:CG2	2.52	0.52
1:E:233:LYS:HZ2	1:E:269:ILE:HG12	1.74	0.52
1:E:281:GLN:HE21	1:E:283:PRO:HG2	1.75	0.52
1:E:524:ALA:O	1:E:527:ARG:HG3	2.09	0.52
1:E:527:ARG:HH11	1:E:527:ARG:HG2	1.73	0.52
2:F:1060:ASP:OD2	2:F:1062:SER:OG	2.27	0.52
2:F:104:GLU:CA	2:F:112:ARG:HH11	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:335:LEU:HD22	2:F:339:GLN:OE1	2.09	0.52
2:F:482:ARG:HG2	2:F:482:ARG:HH11	1.74	0.52
3:G:385:VAL:HG11	3:G:396:ARG:CD	2.39	0.52
3:G:301:LEU:N	3:G:568:THR:HG21	2.24	0.52
4:Y:15:DG:C1'	4:Y:16:DA:OP1	2.56	0.52
1:B:65:THR:HB	1:B:68:ALA:CB	2.38	0.52
2:C:265:ARG:HG2	2:C:266:ARG:O	2.09	0.52
2:C:28:ASP:N	2:C:29:PRO:HD2	2.22	0.52
3:D:91:VAL:HG12	3:D:100:MET:HB2	1.91	0.52
3:D:147:VAL:HG12	3:D:147:VAL:O	2.10	0.52
3:D:157:ALA:HB1	3:D:169:ILE:HD12	1.92	0.52
3:D:568:THR:O	3:D:572:ARG:HG2	2.09	0.52
1:E:18:GLU:O	1:E:19:ARG:HD3	2.09	0.52
1:E:426:ASP:OD1	1:E:428:PHE:HB2	2.10	0.52
1:E:581:LEU:HD11	1:E:737:GLN:OE1	2.10	0.52
1:E:985:GLN:CD	1:E:985:GLN:N	2.63	0.52
3:G:19:LEU:O	3:G:19:LEU:HD23	2.10	0.52
3:G:207:LYS:O	3:G:210:ALA:HB3	2.10	0.52
3:G:582:ASP:O	3:G:584:ARG:N	2.43	0.52
1:B:754:LEU:HB2	1:B:815:LEU:HB3	1.92	0.52
2:C:252:LYS:HB2	2:C:256:TYR:CD2	2.45	0.52
2:C:382:PRO:HB2	2:C:421:PHE:CD1	2.44	0.52
2:C:539:SER:HB2	2:C:551:ASP:OD2	2.10	0.52
2:C:360:ARG:CZ	2:C:766:ALA:HB2	2.39	0.52
3:D:109:LEU:O	3:D:110:ASN:C	2.47	0.52
3:D:77:GLU:O	3:D:79:GLN:N	2.42	0.52
1:E:490:VAL:HG12	1:E:495:THR:CG2	2.39	0.52
1:E:496:GLN:NE2	1:E:496:GLN:N	2.57	0.52
2:F:1035:LEU:O	2:F:1036:LEU:O	2.28	0.52
2:F:199:SER:OG	2:F:200:ALA:N	2.43	0.52
2:F:52:GLN:C	2:F:54:PHE:H	2.13	0.52
2:F:55:GLY:O	2:F:56:ILE:HB	2.09	0.52
2:F:736:ILE:HD12	2:F:736:ILE:N	2.24	0.52
2:F:989:ALA:HB1	2:F:1017:LEU:HD22	1.91	0.52
3:G:126:VAL:HA	3:G:166:ILE:HD13	1.91	0.52
1:B:237:ARG:HE	1:B:266:ILE:CG2	2.22	0.52
1:B:358:LEU:HD13	1:B:396:ILE:HD13	1.91	0.52
1:B:60:LEU:HB2	1:B:378:PHE:HB3	1.91	0.52
1:B:771:ARG:HH21	1:B:793:GLU:HG3	1.75	0.52
2:C:260:LEU:C	2:C:262:THR:H	2.13	0.52
2:C:355:ILE:HD12	2:C:355:ILE:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:699:GLN:O	2:C:701:PRO:HD3	2.10	0.52
2:C:850:GLN:HG2	2:C:856:ASN:OD1	2.10	0.52
2:C:964:LEU:HB2	2:C:996:SER:CB	2.40	0.52
3:D:118:THR:HA	3:D:121:ARG:NH1	2.25	0.52
3:D:260:PRO:O	3:D:261:LEU:CB	2.56	0.52
3:D:270:GLU:OE1	3:D:273:MET:HE2	2.09	0.52
1:E:142:PHE:HB3	2:F:110:LEU:HD22	1.92	0.52
1:E:284:GLU:HG3	1:E:285:SER:N	2.23	0.52
1:E:307:HIS:ND1	1:E:308:PRO:CD	2.70	0.52
1:E:363:ARG:HG3	1:E:364:SER:N	2.23	0.52
1:E:957:SER:O	1:E:960:GLU:HB2	2.09	0.52
3:G:130:ILE:N	3:G:130:ILE:HD12	2.08	0.52
3:G:157:ALA:HB1	3:G:169:ILE:HD12	1.91	0.52
1:B:602:ALA:HB2	1:B:615:ALA:HB2	1.92	0.52
2:C:86:PHE:CZ	2:C:176:THR:HG21	2.45	0.52
2:C:77:LEU:CD2	2:C:196:THR:HG21	2.40	0.52
2:C:277:PHE:CE1	2:C:278:ARG:HG3	2.45	0.52
2:C:570:GLN:HA	2:C:573:ILE:HD12	1.92	0.52
2:C:830:GLU:O	2:C:831:THR:OG1	2.20	0.52
2:C:955:TRP:O	2:C:957:PRO:HD3	2.10	0.52
3:D:207:LYS:O	3:D:210:ALA:HB3	2.09	0.52
3:D:462:MET:CE	3:D:534:TRP:HE1	2.20	0.52
1:E:198:ASN:O	1:E:200:TYR:O	2.28	0.52
1:E:626:LEU:C	1:E:626:LEU:HD13	2.30	0.52
1:E:807:THR:HG22	1:E:808:ARG:NH2	2.23	0.52
2:F:99:LEU:N	2:F:100:PRO:HD2	2.24	0.52
2:F:1040:GLU:HB2	2:F:1084:GLU:OE1	2.10	0.52
2:F:252:LYS:HB2	2:F:256:TYR:CD2	2.45	0.52
2:F:964:LEU:O	2:F:996:SER:HA	2.09	0.52
3:G:132:VAL:HG12	3:G:133:ASP:H	1.74	0.52
3:G:378:ASP:O	3:G:382:VAL:HG23	2.09	0.52
3:G:556:GLN:O	3:G:557:ARG:CB	2.58	0.52
3:G:568:THR:O	3:G:572:ARG:HG2	2.09	0.52
1:B:136:MET:HE2	1:B:374:ILE:HG12	1.92	0.52
1:B:359:ASP:OD1	1:B:395:ARG:HD2	2.09	0.52
2:C:442:ARG:HG3	2:C:442:ARG:NH1	2.24	0.52
2:C:509:ASP:HA	2:C:512:ARG:NH1	2.25	0.52
2:C:880:ILE:HG23	2:C:901:PHE:CE1	2.45	0.52
3:D:383:LYS:O	3:D:387:GLN:HB2	2.10	0.52
3:D:440:LEU:HD22	3:D:552:ILE:CD1	2.40	0.52
3:D:582:ASP:C	3:D:584:ARG:H	2.14	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1002:LEU:HD22	1:E:1007:VAL:HG12	1.91	0.52
1:E:375:ARG:HD3	1:E:400:ILE:O	2.10	0.52
1:E:416:LYS:HE2	1:E:803:TYR:CE2	2.45	0.52
1:E:754:LEU:HB2	1:E:815:LEU:HB3	1.91	0.52
1:E:861:CYS:HA	1:E:865:ILE:HB	1.91	0.52
1:E:874:ASP:O	1:E:875:ASN:HB2	2.10	0.52
2:F:203:CYS:HB2	2:F:204:PRO:HD2	1.91	0.52
2:F:335:LEU:HA	2:F:374:ILE:CD1	2.40	0.52
2:F:59:ASN:O	2:F:60:ILE:O	2.27	0.52
3:G:126:VAL:HG13	3:G:166:ILE:H	1.73	0.52
3:G:181:VAL:HG21	3:G:295:LEU:CD1	2.40	0.52
3:G:27:VAL:CG1	3:G:90:ALA:HB1	2.40	0.52
2:C:1080:MET:HG3	4:X:11:DA:N3	2.24	0.52
4:X:15:DG:C1'	4:X:16:DA:OP1	2.57	0.52
1:B:514:TYR:O	1:B:514:TYR:CG	2.60	0.52
1:B:732:ASP:C	1:B:734:HIS:H	2.14	0.52
1:B:838:LEU:HD22	1:B:838:LEU:O	2.09	0.52
1:B:947:ARG:CD	1:B:1086:LEU:HD21	2.40	0.52
2:C:77:LEU:HD23	2:C:196:THR:HG21	1.92	0.52
2:C:254:PRO:HA	2:C:257:LEU:HD23	1.92	0.52
3:D:52:CYS:HB3	3:D:108:TYR:CE2	2.45	0.52
3:D:556:GLN:O	3:D:557:ARG:HG3	2.10	0.52
1:E:256:LYS:HA	1:E:259:ARG:HD2	1.92	0.52
1:E:444:ASP:OD2	1:E:445:THR:HG22	2.10	0.52
1:E:52:ARG:CG	1:E:52:ARG:HH21	2.23	0.52
1:E:823:ARG:C	1:E:825:GLY:H	2.14	0.52
2:F:1050:TYR:HD1	2:F:1057:MET:HE2	1.75	0.52
2:F:239:LEU:N	2:F:239:LEU:HD12	2.25	0.52
2:F:26:LEU:HD22	2:F:33:GLU:OE1	2.10	0.52
2:F:548:LEU:HD22	2:F:549:PRO:HD2	1.92	0.52
3:D:248:PRO:HD3	4:X:4:5IU:H1'	1.90	0.52
4:Y:18:DC:H4'	4:Y:19:DA:OP1	2.08	0.52
1:B:243:LEU:HD22	1:B:259:ARG:HH12	1.74	0.51
1:B:561:ARG:O	1:B:564:ALA:HB3	2.10	0.51
1:B:815:LEU:HD13	1:B:815:LEU:N	2.25	0.51
1:B:985:GLN:CD	1:B:985:GLN:N	2.63	0.51
2:C:910:GLY:O	2:C:913:GLY:N	2.42	0.51
3:D:52:CYS:SG	3:D:106:ARG:HG2	2.49	0.51
3:D:437:GLU:O	3:D:548:HIS:N	2.34	0.51
3:D:593:ARG:O	3:D:594:THR:C	2.48	0.51
1:E:1098:MET:CE	1:E:1156:TYR:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:771:ARG:HH21	1:E:793:GLU:HG3	1.75	0.51
2:F:228:GLN:NE2	2:F:319:SER:H	2.07	0.51
2:F:592:ARG:HH11	2:F:592:ARG:HB2	1.74	0.51
3:G:175:THR:HG21	3:G:355:LEU:CB	2.40	0.51
3:G:256:HIS:CG	3:G:257:ALA:N	2.78	0.51
3:G:266:LEU:HD12	3:G:267:VAL:H	1.73	0.51
3:G:367:ILE:N	3:G:393:ILE:CG2	2.68	0.51
1:B:213:PRO:C	1:B:215:ASP:H	2.12	0.51
1:B:558:VAL:CG2	1:B:563:GLU:HB3	2.40	0.51
1:B:65:THR:HG22	1:B:67:ALA:N	2.25	0.51
1:B:754:LEU:HB3	1:B:757:ILE:HB	1.91	0.51
1:B:769:HIS:HA	1:B:775:GLU:O	2.10	0.51
1:B:781:ASN:O	1:B:783:ALA:N	2.39	0.51
1:B:769:HIS:HD2	1:B:793:GLU:OE1	1.93	0.51
1:B:823:ARG:HH22	1:B:828:LYS:HZ3	1.57	0.51
2:C:199:SER:O	2:C:201:THR:N	2.43	0.51
2:C:344:GLU:HB3	2:C:346:GLU:HG2	1.92	0.51
2:C:997:ARG:NH1	2:C:997:ARG:HG2	2.24	0.51
3:D:385:VAL:CG2	3:D:396:ARG:CZ	2.88	0.51
1:E:1068:LEU:HD23	1:E:1079:LEU:HD23	1.90	0.51
1:E:1040:ILE:HG23	1:E:1112:GLN:NE2	2.26	0.51
1:E:1172:PHE:CZ	1:E:1173:ALA:HB2	2.44	0.51
1:E:584:ARG:HH11	1:E:584:ARG:HG2	1.75	0.51
2:F:348:ARG:HG3	2:F:365:ARG:NH1	2.25	0.51
2:F:360:ARG:CZ	2:F:766:ALA:HB2	2.40	0.51
2:F:74:VAL:HA	2:F:80:ILE:HB	1.92	0.51
2:F:842:ALA:O	2:F:843:HIS:HB2	2.10	0.51
3:G:286:LEU:HD13	3:G:292:VAL:CG2	2.39	0.51
2:C:1038:LEU:HD23	2:C:1038:LEU:N	2.25	0.51
2:C:842:ALA:O	2:C:843:HIS:CB	2.59	0.51
3:D:279:MET:O	3:D:281:ARG:N	2.44	0.51
3:D:373:ALA:HB1	3:D:380:THR:HB	1.91	0.51
3:D:462:MET:HE1	3:D:534:TRP:NE1	2.25	0.51
1:E:136:MET:CE	1:E:374:ILE:HG12	2.41	0.51
1:E:815:LEU:HD13	1:E:815:LEU:N	2.25	0.51
2:F:28:ASP:H	2:F:29:PRO:HD3	1.69	0.51
2:F:334:LEU:HD11	2:F:755:ILE:HG23	1.93	0.51
1:E:889:ASN:HA	2:F:807:LEU:HD11	1.91	0.51
2:F:867:THR:OG1	2:F:868:GLU:N	2.44	0.51
2:F:551:ASP:HB3	3:G:111:ARG:HH22	1.75	0.51
1:B:1111:TYR:HD1	1:B:1111:TYR:H	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:TYR:O	1:B:515:GLN:CG	2.59	0.51
2:C:104:GLU:CA	2:C:112:ARG:HH11	2.22	0.51
2:C:478:VAL:HG21	2:C:605:THR:HG21	1.92	0.51
2:C:736:ILE:HD12	2:C:736:ILE:N	2.23	0.51
3:D:240:LEU:HD21	3:D:274:ILE:HD12	1.92	0.51
1:E:1109:LEU:HA	1:E:1112:GLN:OE1	2.10	0.51
1:E:282:LEU:N	1:E:283:PRO:CD	2.73	0.51
1:E:133:CYS:HA	1:E:358:LEU:HD12	1.92	0.51
1:E:610:ASN:HD22	1:E:613:ARG:NH1	2.04	0.51
1:E:824:ARG:HB2	4:Y:16:DA:OP2	2.11	0.51
2:F:292:GLU:HB3	2:F:295:VAL:HG22	1.92	0.51
2:F:406:ARG:HB3	2:F:658:PRO:HG3	1.93	0.51
2:F:460:LEU:N	2:F:461:PRO:HD2	2.25	0.51
2:F:530:ARG:NE	2:F:548:LEU:O	2.37	0.51
2:F:951:GLN:C	2:F:952:ILE:HD13	2.31	0.51
3:G:255:HIS:ND1	3:G:285:ALA:HB2	2.26	0.51
1:B:1051:PRO:CD	1:B:1052:PRO:HD2	2.38	0.51
1:B:362:LEU:HD23	1:B:370:LEU:HD23	1.91	0.51
1:B:823:ARG:C	1:B:825:GLY:H	2.14	0.51
1:B:95:PRO:O	1:B:96:LEU:C	2.49	0.51
2:C:33:GLU:OE2	2:C:210:ARG:NH1	2.43	0.51
2:C:457:LEU:O	2:C:460:LEU:HG	2.11	0.51
2:C:571:LEU:HD23	2:C:598:PHE:CE2	2.46	0.51
3:D:354:LEU:H	3:D:354:LEU:HD12	1.75	0.51
1:E:153:ILE:HD12	1:E:154:GLU:OE2	2.10	0.51
1:E:667:ALA:C	1:E:669:ASN:H	2.13	0.51
2:F:295:VAL:O	2:F:295:VAL:HG12	2.11	0.51
2:F:354:ASN:HD22	2:F:356:GLU:HB3	1.74	0.51
2:F:611:LEU:HD22	2:F:645:LEU:HD11	1.93	0.51
4:X:36:DG:C8	4:X:37:DT:H72	2.46	0.51
1:B:909:LEU:HD22	1:B:1054:GLU:CD	2.29	0.51
1:B:471:ARG:H	1:B:471:ARG:HD2	1.75	0.51
1:B:470:PHE:O	1:B:472:GLU:N	2.44	0.51
1:B:591:LEU:HB3	2:C:1095:ARG:HH21	1.74	0.51
1:B:620:MET:HE2	1:B:687:ILE:HD13	1.90	0.51
1:B:626:LEU:C	1:B:626:LEU:HD13	2.31	0.51
1:B:672:GLU:HG2	2:C:808:PRO:HG2	1.93	0.51
2:C:228:GLN:NE2	2:C:319:SER:H	2.09	0.51
2:C:394:LEU:HD23	2:C:802:TYR:CB	2.41	0.51
2:C:74:VAL:HA	2:C:80:ILE:HB	1.92	0.51
2:C:81:PRO:HG3	2:C:182:PRO:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:865:PRO:C	2:C:867:THR:H	2.13	0.51
3:D:228:GLU:C	3:D:230:LYS:H	2.14	0.51
3:D:417:ARG:NH1	3:D:437:GLU:HB3	2.24	0.51
1:E:1072:HIS:O	1:E:1073:GLU:C	2.48	0.51
1:E:136:MET:HE2	1:E:374:ILE:HG12	1.92	0.51
1:E:471:ARG:HH11	1:E:472:GLU:CD	2.14	0.51
3:G:383:LYS:O	3:G:387:GLN:HB2	2.10	0.51
4:Y:16:DA:C2'	4:Y:17:DG:C8	2.94	0.51
1:B:496:GLN:N	1:B:496:GLN:NE2	2.58	0.51
1:B:584:ARG:HG2	1:B:584:ARG:HH11	1.75	0.51
1:B:951:PRO:O	1:B:954:PHE:HB3	2.11	0.51
2:C:295:VAL:O	2:C:295:VAL:HG12	2.10	0.51
2:C:611:LEU:HD23	2:C:611:LEU:O	2.11	0.51
2:C:688:GLN:O	2:C:689:LEU:HB3	2.11	0.51
3:D:242:ARG:O	3:D:243:LEU:C	2.49	0.51
3:D:244:LEU:HD13	3:D:255:HIS:ND1	2.25	0.51
1:E:283:PRO:HB3	1:E:314:ASP:OD1	2.10	0.51
1:E:442:THR:HG22	1:E:443:LEU:N	2.26	0.51
1:E:732:ASP:OD1	1:E:735:LEU:HD12	2.11	0.51
1:E:951:PRO:O	1:E:954:PHE:HB3	2.11	0.51
1:E:95:PRO:O	1:E:96:LEU:C	2.49	0.51
2:F:1039:PRO:HA	2:F:1113:LEU:HD11	1.92	0.51
2:F:164:TRP:C	2:F:167:PRO:HD2	2.31	0.51
2:F:26:LEU:HB2	2:F:210:ARG:NH2	2.25	0.51
2:F:687:ARG:O	2:F:708:ARG:HG2	2.10	0.51
2:F:884:LEU:HG	2:F:917:TRP:CH2	2.46	0.51
3:G:130:ILE:H	3:G:130:ILE:CD1	2.00	0.51
3:G:229:GLN:HG2	3:G:230:LYS:HD2	1.92	0.51
3:G:233:ILE:N	3:G:233:ILE:HD13	2.25	0.51
3:G:286:LEU:CD1	3:G:292:VAL:HG21	2.41	0.51
3:G:344:GLU:HG3	3:G:345:ALA:H	1.75	0.51
3:G:562:THR:CB	3:G:594:THR:H	2.22	0.51
2:C:578:LEU:HB3	2:C:634:LEU:HD12	1.93	0.51
2:C:717:LEU:HD22	2:C:721:ILE:HG12	1.92	0.51
2:C:842:ALA:O	2:C:843:HIS:HB2	2.09	0.51
3:D:185:LEU:HD13	3:D:199:ILE:HG21	1.93	0.51
3:D:298:ARG:HD3	3:D:314:CYS:HB3	1.93	0.51
3:D:570:VAL:HG13	3:D:577:LEU:HD22	1.93	0.51
1:E:177:ARG:HE	1:E:181:GLN:HE21	1.58	0.51
1:E:490:VAL:HG12	1:E:495:THR:HG22	1.93	0.51
1:E:514:TYR:O	1:E:515:GLN:CG	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:507:GLU:HB3	1:E:827:LYS:HE3	1.92	0.51
2:F:33:GLU:O	2:F:60:ILE:HA	2.11	0.51
2:F:989:ALA:CB	2:F:1017:LEU:HD22	2.40	0.51
3:G:75:ILE:HB	3:G:78:LEU:CD1	2.39	0.51
4:Y:2:5IU:H3'	4:Y:3:5IU:C5'	2.40	0.51
1:B:222:HIS:CE1	1:B:272:TRP:HH2	2.29	0.51
1:B:39:ARG:HG3	1:B:39:ARG:HH11	1.76	0.51
2:C:1035:LEU:O	2:C:1036:LEU:O	2.29	0.51
2:C:1037:VAL:C	2:C:1038:LEU:HD23	2.31	0.51
2:C:26:LEU:HD22	2:C:33:GLU:OE1	2.11	0.51
2:C:445:ARG:NH1	2:C:452:GLU:OE1	2.44	0.51
3:D:271:ALA:O	3:D:273:MET:N	2.44	0.51
2:F:103:LEU:HD22	2:F:112:ARG:HA	1.92	0.51
2:F:251:ILE:HB	2:F:286:LEU:HD13	1.92	0.51
3:G:178:THR:HG23	3:G:179:THR:N	2.25	0.51
3:G:207:LYS:HE2	3:G:211:ARG:NH2	2.25	0.51
3:G:216:LEU:O	3:G:220:LEU:CB	2.46	0.51
1:E:254:ARG:NH2	4:Y:22:DG:OP1	2.44	0.51
1:B:762:VAL:HG13	1:B:791:GLU:CD	2.30	0.51
1:B:987:GLU:O	1:B:991:THR:HG22	2.10	0.51
2:C:344:GLU:HB3	2:C:346:GLU:OE2	2.11	0.51
2:C:611:LEU:HD22	2:C:645:LEU:HD11	1.93	0.51
2:C:8:ASN:ND2	2:C:343:LEU:HD11	2.26	0.51
3:D:226:THR:C	3:D:228:GLU:N	2.61	0.51
3:D:233:ILE:HD13	3:D:233:ILE:N	2.26	0.51
3:D:79:GLN:O	3:D:81:TRP:N	2.43	0.51
1:E:1142:PHE:O	1:E:1144:ARG:O	2.29	0.51
1:E:119:ARG:HD3	2:F:302:SER:CB	2.41	0.51
1:E:685:THR:HG21	1:E:729:LEU:HD12	1.93	0.51
1:E:92:THR:HG21	1:E:97:TYR:HB2	1.93	0.51
2:F:428:SER:O	2:F:429:ALA:C	2.50	0.51
2:F:87:ASN:O	2:F:87:ASN:ND2	2.43	0.51
3:G:255:HIS:CG	3:G:256:HIS:N	2.75	0.51
1:B:1161:ASN:O	1:B:1162:ALA:HB3	2.11	0.50
1:B:1172:PHE:CD1	1:B:1172:PHE:C	2.84	0.50
1:B:415:PRO:HB3	1:B:430:TYR:CE2	2.47	0.50
1:B:861:CYS:HA	1:B:865:ILE:HB	1.93	0.50
2:C:1078:ASN:OD1	4:X:11:DA:N7	2.45	0.50
2:C:1087:ASP:O	2:C:1091:GLN:HG2	2.11	0.50
2:C:995:GLU:HG2	2:C:996:SER:H	1.76	0.50
2:F:1038:LEU:HD23	2:F:1038:LEU:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:578:LEU:HB3	2:F:634:LEU:HD12	1.93	0.50
1:B:385:GLU:HG3	1:B:387:GLN:HE22	1.76	0.50
1:B:92:THR:HG21	1:B:97:TYR:HB2	1.92	0.50
2:C:749:GLN:OE1	2:C:752:ILE:HD11	2.11	0.50
3:D:229:GLN:HG2	3:D:230:LYS:HD2	1.92	0.50
3:D:526:ARG:NH1	3:D:536:MET:CE	2.72	0.50
1:E:899:ASP:CB	1:E:1059:ARG:HH12	2.17	0.50
1:E:172:CYS:HA	1:E:175:LEU:HG	1.93	0.50
1:E:496:GLN:N	1:E:496:GLN:HE21	2.08	0.50
1:E:763:GLN:CA	1:E:763:GLN:HE21	2.24	0.50
2:F:33:GLU:OE2	2:F:210:ARG:NH1	2.44	0.50
2:F:509:ASP:HA	2:F:512:ARG:NH1	2.26	0.50
1:B:200:TYR:C	1:B:202:GLN:H	2.15	0.50
1:B:52:ARG:CG	1:B:52:ARG:HH21	2.24	0.50
1:B:804:VAL:O	1:B:808:ARG:HG2	2.11	0.50
1:B:920:LEU:HD23	2:C:650:ILE:HG13	1.92	0.50
2:C:867:THR:OG1	2:C:868:GLU:N	2.44	0.50
2:C:971:LEU:CD2	4:X:10:DA:H5'	2.39	0.50
2:C:972:LEU:HA	2:C:1000:LEU:CD1	2.41	0.50
3:D:233:ILE:C	3:D:235:GLU:N	2.65	0.50
3:D:271:ALA:C	3:D:273:MET:N	2.65	0.50
3:D:31:GLU:O	3:D:32:HIS:C	2.49	0.50
3:D:414:GLY:C	3:D:416:GLY:H	2.14	0.50
3:D:550:ALA:CB	3:D:578:SER:HB2	2.42	0.50
3:D:556:GLN:O	3:D:557:ARG:CB	2.59	0.50
3:D:397:LEU:HD13	3:D:580:TYR:CE2	2.45	0.50
3:D:562:THR:HG21	3:D:594:THR:CG2	2.39	0.50
1:E:600:LEU:O	1:E:604:MET:HB2	2.11	0.50
1:E:531:GLN:NE2	1:E:879:GLN:HB2	2.23	0.50
2:F:1077:GLY:H	2:F:1083:GLY:CA	2.24	0.50
2:F:2:LEU:HD23	2:F:236:ILE:CG2	2.41	0.50
2:F:699:GLN:C	2:F:701:PRO:HD3	2.31	0.50
2:F:828:LEU:HD13	2:F:1028:ARG:CG	2.35	0.50
2:F:885:LEU:HD12	2:F:969:PRO:CG	2.32	0.50
2:F:971:LEU:HD21	2:F:1001:ARG:NH2	2.27	0.50
3:G:260:PRO:O	3:G:261:LEU:CB	2.57	0.50
3:G:277:PRO:O	3:G:280:SER:OG	2.30	0.50
3:G:533:THR:C	3:G:535:ALA:H	2.14	0.50
3:G:106:ARG:NH2	3:G:598:SER:O	2.44	0.50
1:B:199:ARG:HH11	1:B:199:ARG:HG3	1.76	0.50
1:B:375:ARG:CZ	1:B:404:GLN:NE2	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:355:LEU:HD11	1:B:392:GLN:NE2	2.27	0.50
1:B:524:ALA:O	1:B:527:ARG:HG3	2.12	0.50
2:C:505:GLY:O	2:C:523:THR:HB	2.11	0.50
3:D:330:SER:HB3	3:D:337:VAL:N	2.26	0.50
1:E:1102:MET:HE3	1:E:1102:MET:HA	1.94	0.50
1:E:199:ARG:HH11	1:E:199:ARG:HG3	1.76	0.50
1:E:390:ASP:HA	1:E:429:THR:HG21	1.92	0.50
1:E:42:LEU:CB	1:E:44:LEU:HD13	2.42	0.50
1:E:732:ASP:C	1:E:734:HIS:H	2.13	0.50
1:E:900:ASN:ND2	1:E:902:ARG:HG3	2.26	0.50
2:F:102:LEU:HD11	2:F:171:ALA:CB	2.41	0.50
2:F:103:LEU:HD11	2:F:115:LEU:CD1	2.41	0.50
2:F:556:LEU:HB3	4:Y:1:5IU:I5	2.82	0.50
2:F:872:LEU:HD22	2:F:880:ILE:HD12	1.92	0.50
2:F:98:LEU:HD21	2:F:175:TYR:CD2	2.46	0.50
3:G:186:ALA:HB2	3:G:223:LEU:HD11	1.93	0.50
3:G:226:THR:HG22	3:G:226:THR:O	2.11	0.50
3:G:556:GLN:HA	3:G:585:ILE:HD12	1.94	0.50
4:X:45:DT:H2''	4:X:46:5IU:H5'	1.94	0.50
1:B:1118:LEU:O	1:B:1122:LEU:HG	2.12	0.50
2:C:258:ALA:HA	2:C:261:LEU:CG	2.37	0.50
2:C:470:VAL:O	2:C:473:LEU:HB2	2.10	0.50
2:C:482:ARG:HH11	2:C:482:ARG:HG2	1.75	0.50
1:E:469:MET:O	1:E:470:PHE:CD2	2.65	0.50
1:E:838:LEU:HD22	1:E:838:LEU:O	2.12	0.50
1:E:931:VAL:HG12	1:E:932:ALA:N	2.27	0.50
1:E:942:PRO:HB3	1:E:993:TRP:CE2	2.47	0.50
2:F:717:LEU:HD22	2:F:721:ILE:HG12	1.94	0.50
2:F:850:GLN:HG2	2:F:856:ASN:OD1	2.11	0.50
2:F:955:TRP:O	2:F:957:PRO:HD3	2.11	0.50
3:G:417:ARG:NH1	3:G:437:GLU:HB3	2.27	0.50
1:B:1043:PHE:HD2	1:B:1161:ASN:CB	2.25	0.50
1:B:170:ARG:HA	2:C:517:PRO:CG	2.42	0.50
1:B:256:LYS:HA	1:B:259:ARG:HD2	1.92	0.50
1:B:259:ARG:O	1:B:262:GLN:NE2	2.44	0.50
1:B:362:LEU:O	1:B:399:ARG:HD3	2.12	0.50
1:B:704:GLU:CD	1:B:704:GLU:H	2.12	0.50
2:C:1013:ALA:O	2:C:1017:LEU:HD23	2.12	0.50
2:C:138:TYR:HE1	2:C:165:GLN:NE2	2.10	0.50
2:C:920:GLN:OE1	2:C:920:GLN:HA	2.12	0.50
3:D:218:LYS:HA	3:D:221:ARG:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:417:GLN:HG2	1:E:804:VAL:HG22	1.94	0.50
1:E:471:ARG:CD	1:E:471:ARG:H	2.24	0.50
1:E:497:PRO:HG3	1:E:866:ALA:HB3	1.93	0.50
1:E:65:THR:HB	1:E:68:ALA:CB	2.40	0.50
1:E:769:HIS:HD2	1:E:793:GLU:OE1	1.94	0.50
2:F:108:PHE:CD1	2:F:108:PHE:N	2.80	0.50
2:F:29:PRO:O	2:F:30:PHE:HB2	2.12	0.50
2:F:970:SER:HB2	4:Y:10:DA:OP2	2.12	0.50
3:G:106:ARG:CZ	3:G:598:SER:O	2.60	0.50
3:G:243:LEU:CD1	3:G:261:LEU:CD2	2.77	0.50
1:B:1072:HIS:O	1:B:1073:GLU:C	2.50	0.50
1:B:1101:ALA:HA	1:B:1104:ALA:HB3	1.94	0.50
1:B:177:ARG:HE	1:B:181:GLN:HE21	1.58	0.50
1:B:283:PRO:HB3	1:B:314:ASP:OD1	2.12	0.50
1:B:577:PRO:HB2	1:B:735:LEU:HD22	1.94	0.50
2:C:108:PHE:N	2:C:108:PHE:CD1	2.80	0.50
2:C:460:LEU:N	2:C:461:PRO:HD2	2.26	0.50
3:D:274:ILE:CG2	3:D:279:MET:HG2	2.42	0.50
1:E:200:TYR:C	1:E:202:GLN:H	2.15	0.50
1:E:222:HIS:CE1	1:E:272:TRP:HH2	2.30	0.50
1:E:375:ARG:CZ	1:E:404:GLN:NE2	2.75	0.50
1:E:626:LEU:O	1:E:630:THR:HG23	2.12	0.50
1:E:878:TRP:O	1:E:880:VAL:N	2.45	0.50
2:F:25:ARG:CG	2:F:25:ARG:NH1	2.73	0.50
2:F:834:LEU:CD2	2:F:986:VAL:HG21	2.41	0.50
2:F:997:ARG:NH1	2:F:997:ARG:HG2	2.27	0.50
3:G:243:LEU:HD12	3:G:244:LEU:HG	1.92	0.50
2:C:200:ALA:O	2:C:202:THR:N	2.43	0.50
2:C:406:ARG:HB3	2:C:658:PRO:HG3	1.94	0.50
2:C:687:ARG:O	2:C:708:ARG:HG2	2.12	0.50
2:C:87:ASN:ND2	2:C:90:SER:H	2.08	0.50
1:E:1043:PHE:O	1:E:1161:ASN:ND2	2.43	0.50
1:E:187:TRP:HZ3	1:E:196:ASP:OD2	1.94	0.50
1:E:876:GLN:N	1:E:877:PRO:HD2	2.27	0.50
2:F:52:GLN:O	2:F:54:PHE:N	2.41	0.50
2:F:995:GLU:HG2	2:F:996:SER:H	1.76	0.50
3:G:463:GLN:C	3:G:465:LYS:H	2.14	0.50
1:B:282:LEU:N	1:B:283:PRO:CD	2.74	0.50
2:C:1082:ARG:HH11	2:C:1082:ARG:HB2	1.76	0.50
2:C:529:THR:O	2:C:533:LEU:HB2	2.12	0.50
3:D:175:THR:HG21	3:D:355:LEU:CB	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1172:PHE:C	1:E:1172:PHE:CD1	2.85	0.50
1:E:180:ALA:HB3	2:F:911:ALA:HB1	1.93	0.50
1:E:332:LEU:O	1:E:336:ARG:HG3	2.12	0.50
1:E:473:ILE:HG22	1:E:473:ILE:O	2.11	0.50
2:F:457:LEU:O	2:F:460:LEU:HG	2.12	0.50
3:G:266:LEU:HD12	3:G:267:VAL:N	2.27	0.50
3:G:181:VAL:HG21	3:G:295:LEU:HD13	1.93	0.50
3:G:157:ALA:HB2	3:G:355:LEU:CD2	2.38	0.50
3:G:157:ALA:CB	3:G:355:LEU:HD21	2.39	0.50
3:G:533:THR:O	3:G:535:ALA:N	2.34	0.50
1:B:1102:MET:HA	1:B:1102:MET:HE3	1.94	0.49
1:B:681:GLU:O	1:B:685:THR:HG23	2.10	0.49
1:B:700:GLN:O	1:B:701:LEU:HD23	2.12	0.49
1:B:791:GLU:OE2	1:B:794:ARG:HD3	2.11	0.49
1:B:8:LEU:HB2	1:B:441:TYR:HB3	1.92	0.49
2:C:107:ASP:HB3	2:C:108:PHE:CD1	2.47	0.49
3:D:304:VAL:HG21	3:D:564:GLU:CG	2.34	0.49
3:D:71:CYS:CB	3:D:74:GLU:HB3	2.41	0.49
1:E:237:ARG:HE	1:E:266:ILE:CG2	2.24	0.49
1:E:711:LEU:O	1:E:712:SER:C	2.50	0.49
2:F:709:ARG:HG2	2:F:709:ARG:NH2	2.21	0.49
2:F:358:PHE:CZ	2:F:768:ASN:OD1	2.65	0.49
2:F:842:ALA:O	2:F:843:HIS:CB	2.60	0.49
3:G:525:SER:C	3:G:527:LEU:H	2.14	0.49
1:B:1068:LEU:HD12	1:B:1069:VAL:H	1.77	0.49
1:B:362:LEU:CD1	1:B:396:ILE:HG23	2.41	0.49
1:B:423:ARG:O	1:B:423:ARG:HD2	2.10	0.49
1:B:497:PRO:HG3	1:B:866:ALA:HB3	1.93	0.49
1:B:931:VAL:HG12	1:B:932:ALA:N	2.27	0.49
3:D:178:THR:HG23	3:D:179:THR:N	2.27	0.49
1:E:1111:TYR:H	1:E:1111:TYR:HD1	1.60	0.49
1:E:385:GLU:HG3	1:E:387:GLN:HE22	1.76	0.49
1:E:947:ARG:CD	1:E:1086:LEU:HD21	2.42	0.49
2:F:262:THR:O	2:F:273:GLU:HG3	2.13	0.49
2:F:344:GLU:HB3	2:F:346:GLU:OE2	2.12	0.49
2:F:405:PRO:HG2	2:F:658:PRO:HB2	1.93	0.49
2:F:519:THR:CG2	2:F:521:GLN:H	2.21	0.49
2:F:78:PRO:HD2	2:F:192:ARG:HH11	1.77	0.49
2:F:948:ASN:ND2	2:F:948:ASN:C	2.65	0.49
3:G:228:GLU:C	3:G:230:LYS:H	2.14	0.49
3:G:51:VAL:HG13	3:G:112:MET:SD	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:CYS:HA	1:B:358:LEU:HD12	1.93	0.49
1:B:900:ASN:ND2	1:B:902:ARG:HG3	2.27	0.49
2:C:112:ARG:CG	2:C:112:ARG:HH11	2.26	0.49
2:C:185:HIS:CE1	2:C:188:ASN:HD22	2.30	0.49
2:C:29:PRO:O	2:C:30:PHE:HB2	2.12	0.49
2:C:397:LEU:CD2	2:C:403:LEU:HD13	2.37	0.49
1:E:1131:TYR:CE2	1:E:1162:ALA:HB2	2.48	0.49
1:E:54:LEU:HD13	1:E:380:VAL:CG1	2.43	0.49
2:F:161:ALA:O	2:F:165:GLN:HG3	2.13	0.49
2:F:81:PRO:HG3	2:F:182:PRO:CB	2.42	0.49
3:G:397:LEU:HD13	3:G:580:TYR:CE2	2.48	0.49
3:G:71:CYS:CB	3:G:74:GLU:HB3	2.42	0.49
1:B:628:ILE:O	1:B:632:ASN:ND2	2.46	0.49
1:B:905:SER:HB3	1:B:1063:LYS:HB2	1.94	0.49
2:C:971:LEU:HD21	2:C:1001:ARG:NH2	2.28	0.49
2:C:203:CYS:HB2	2:C:204:PRO:HD2	1.94	0.49
2:C:832:VAL:O	2:C:833:PRO:C	2.51	0.49
3:D:216:LEU:O	3:D:220:LEU:CB	2.48	0.49
3:D:326:ALA:HB1	3:D:337:VAL:O	2.12	0.49
3:D:550:ALA:HB2	3:D:578:SER:HB2	1.94	0.49
3:D:562:THR:CB	3:D:594:THR:H	2.23	0.49
1:E:243:LEU:HD22	1:E:259:ARG:HH12	1.76	0.49
1:E:762:VAL:HG13	1:E:791:GLU:CD	2.32	0.49
1:E:675:LEU:CD1	2:F:809:ALA:HB1	2.43	0.49
3:G:147:VAL:O	3:G:147:VAL:HG12	2.12	0.49
3:G:166:ILE:HD12	3:G:166:ILE:N	2.27	0.49
3:G:15:GLN:O	3:G:16:LEU:HB3	2.11	0.49
1:B:165:ALA:O	1:B:169:ARG:HG3	2.12	0.49
1:B:172:CYS:HA	1:B:175:LEU:HG	1.94	0.49
2:C:1077:GLY:H	2:C:1083:GLY:CA	2.26	0.49
2:C:405:PRO:C	2:C:658:PRO:HB3	2.32	0.49
1:B:1024:TYR:O	2:C:51:SER:HB2	2.13	0.49
2:C:587:TRP:CH2	2:C:634:LEU:HG	2.47	0.49
3:D:244:LEU:HD13	3:D:255:HIS:CG	2.48	0.49
3:D:65:HIS:O	3:D:66:PRO:C	2.51	0.49
1:E:213:PRO:C	1:E:215:ASP:H	2.14	0.49
1:E:954:PHE:O	1:E:957:SER:HB3	2.12	0.49
2:F:571:LEU:HD23	2:F:598:PHE:CE2	2.48	0.49
2:F:412:VAL:O	2:F:663:THR:HG22	2.12	0.49
2:F:130:LYS:CD	2:F:692:LEU:HD21	2.38	0.49
2:F:716:PHE:CB	2:F:747:LEU:HD13	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:178:THR:HG23	3:G:179:THR:H	1.76	0.49
3:G:185:LEU:HD13	3:G:199:ILE:HG21	1.95	0.49
1:B:1046:LEU:C	1:B:1048:ALA:H	2.16	0.49
1:B:581:LEU:HD11	1:B:737:GLN:OE1	2.12	0.49
1:B:507:GLU:HA	1:B:850:ALA:HB1	1.95	0.49
2:C:1055:ASP:CG	2:C:1118:ARG:NH2	2.65	0.49
2:C:428:SER:O	2:C:429:ALA:C	2.50	0.49
2:C:412:VAL:O	2:C:663:THR:HG22	2.11	0.49
1:E:134:GLN:HB3	1:E:354:MET:SD	2.53	0.49
1:E:964:PHE:N	1:E:964:PHE:CD2	2.69	0.49
2:F:1077:GLY:H	2:F:1083:GLY:N	2.09	0.49
2:F:277:PHE:CD1	2:F:278:ARG:HG3	2.47	0.49
2:F:749:GLN:OE1	2:F:752:ILE:HD11	2.12	0.49
2:F:768:ASN:HB3	2:F:771:GLU:HB2	1.95	0.49
2:F:832:VAL:O	2:F:832:VAL:CG2	2.61	0.49
3:G:253:LEU:HB3	3:G:255:HIS:CD2	2.47	0.49
3:G:525:SER:O	3:G:527:LEU:N	2.45	0.49
3:G:553:LEU:HB3	3:G:554:PRO:HD2	1.94	0.49
1:B:1132:GLU:HA	1:B:1159:ARG:HH22	1.78	0.49
1:B:173:TYR:N	1:B:174:PRO:HD2	2.28	0.49
1:B:29:LYS:HD3	1:B:33:ILE:HD11	1.95	0.49
1:B:610:ASN:HD22	1:B:613:ARG:NH1	2.07	0.49
1:B:646:ASP:O	1:B:649:ARG:CG	2.61	0.49
2:C:103:LEU:HD22	2:C:112:ARG:HA	1.94	0.49
2:C:884:LEU:O	2:C:888:LEU:HG	2.13	0.49
3:D:349:ARG:HH11	3:D:349:ARG:CB	2.26	0.49
3:D:56:SER:C	3:D:58:LEU:N	2.65	0.49
3:D:597:ARG:O	3:D:598:SER:CB	2.52	0.49
1:E:1118:LEU:O	1:E:1122:LEU:HG	2.12	0.49
2:F:1037:VAL:C	2:F:1038:LEU:HD23	2.33	0.49
2:F:391:ASP:OD2	2:F:801:SER:HA	2.12	0.49
2:F:832:VAL:O	2:F:833:PRO:C	2.51	0.49
3:G:233:ILE:C	3:G:235:GLU:N	2.65	0.49
3:G:271:ALA:C	3:G:273:MET:N	2.64	0.49
3:G:244:LEU:CD1	3:G:285:ALA:CB	2.88	0.49
3:G:414:GLY:C	3:G:416:GLY:H	2.15	0.49
1:B:471:ARG:H	1:B:471:ARG:CD	2.25	0.49
1:B:763:GLN:HE21	1:B:763:GLN:CA	2.25	0.49
2:C:941:MET:HG2	2:C:942:GLU:N	2.27	0.49
3:D:157:ALA:HB2	3:D:355:LEU:CD2	2.39	0.49
1:E:173:TYR:N	1:E:174:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:672:GLU:HG2	2:F:808:PRO:HG2	1.95	0.49
2:F:1048:THR:OG1	2:F:1070:LYS:HG3	2.13	0.49
2:F:260:LEU:C	2:F:262:THR:H	2.16	0.49
2:F:355:ILE:HD12	2:F:355:ILE:N	2.27	0.49
2:F:411:MET:HB3	2:F:664:LEU:HD12	1.93	0.49
2:F:865:PRO:C	2:F:867:THR:H	2.16	0.49
2:F:947:CYS:O	2:F:948:ASN:ND2	2.45	0.49
3:G:270:GLU:OE1	3:G:273:MET:HE2	2.12	0.49
3:G:597:ARG:O	3:G:598:SER:CB	2.52	0.49
4:Y:45:DT:H2''	4:Y:46:5IU:H5'	1.95	0.49
1:B:237:ARG:HH21	1:B:266:ILE:CG2	2.25	0.49
1:B:491:PHE:O	1:B:493:GLY:N	2.46	0.49
2:C:99:LEU:N	2:C:100:PRO:HD2	2.28	0.49
2:C:483:PHE:CE2	2:C:567:LEU:HA	2.47	0.49
2:C:858:ARG:HB2	2:C:858:ARG:CZ	2.42	0.49
3:D:91:VAL:HA	3:D:98:THR:HG21	1.93	0.49
1:E:365:GLU:CG	1:E:366:SER:N	2.76	0.49
1:E:692:GLU:HG2	2:F:383:GLN:HG3	1.95	0.49
2:F:482:ARG:NH1	2:F:482:ARG:HG2	2.27	0.49
3:G:185:LEU:HD23	3:G:188:LEU:HD12	1.95	0.49
3:G:185:LEU:HA	3:G:188:LEU:HB2	1.95	0.49
3:G:211:ARG:HA	3:G:214:GLU:CG	2.43	0.49
3:D:204:PRO:CB	4:X:2:5IU:H6	2.42	0.49
1:B:221:ARG:HG2	1:B:221:ARG:HH11	1.77	0.49
1:B:604:MET:HG3	1:B:705:HIS:CE1	2.48	0.49
1:B:771:ARG:HD3	1:B:789:LEU:HD22	1.94	0.49
2:C:239:LEU:N	2:C:239:LEU:CD1	2.76	0.49
3:D:117:ARG:HA	3:D:603:LEU:HD13	1.95	0.49
3:D:226:THR:HG22	3:D:226:THR:O	2.13	0.49
3:D:359:TYR:O	3:D:360:ARG:HG2	2.13	0.49
1:E:1139:ILE:HD13	1:E:1157:THR:HG23	1.95	0.49
1:E:148:PHE:H	2:F:126:GLN:NE2	2.09	0.49
2:F:250:ASP:CG	2:F:291:GLY:HA3	2.34	0.49
2:F:5:TYR:CD2	2:F:323:LEU:HD11	2.48	0.49
2:F:388:VAL:HG22	2:F:799:ARG:NH1	2.28	0.49
2:F:539:SER:CB	2:F:551:ASP:OD1	2.61	0.49
1:E:672:GLU:O	2:F:814:GLY:HA3	2.13	0.49
2:F:87:ASN:ND2	2:F:90:SER:H	2.08	0.49
3:G:150:GLU:O	3:G:151:ILE:C	2.51	0.49
3:G:349:ARG:HH11	3:G:349:ARG:CB	2.26	0.49
3:G:79:GLN:O	3:G:81:TRP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:103:LEU:HD11	2:C:115:LEU:CD1	2.43	0.48
2:C:80:ILE:CD1	2:C:189:LEU:HD21	2.41	0.48
1:B:598:TRP:CH2	2:C:857:PHE:HB3	2.46	0.48
2:C:973:SER:OG	2:C:976:GLN:HB2	2.13	0.48
3:D:212:LEU:HD22	3:D:216:LEU:CD1	2.43	0.48
3:D:300:GLN:NE2	3:D:568:THR:HA	2.28	0.48
1:E:1066:ILE:HG21	1:E:1069:VAL:CG2	2.42	0.48
1:E:754:LEU:HB3	1:E:757:ILE:HB	1.93	0.48
1:E:799:LEU:HD23	1:E:837:ALA:CB	2.41	0.48
2:F:77:LEU:HD23	2:F:196:THR:HG21	1.95	0.48
2:F:254:PRO:O	2:F:257:LEU:HG	2.13	0.48
2:F:408:ILE:HG23	2:F:674:VAL:CG1	2.43	0.48
2:F:920:GLN:HA	2:F:920:GLN:OE1	2.13	0.48
3:G:556:GLN:O	3:G:557:ARG:HG3	2.13	0.48
3:G:570:VAL:HG13	3:G:577:LEU:HD22	1.95	0.48
1:B:1066:ILE:HG21	1:B:1069:VAL:CG2	2.43	0.48
1:B:1098:MET:CE	1:B:1156:TYR:HB2	2.43	0.48
1:B:268:LYS:CE	1:B:268:LYS:HA	2.43	0.48
1:B:447:TRP:O	1:B:448:ARG:HB2	2.13	0.48
1:B:500:LYS:NZ	1:B:868:GLN:HG3	2.28	0.48
1:B:552:SER:HB3	1:B:733:LYS:O	2.13	0.48
1:B:874:ASP:O	1:B:875:ASN:HB2	2.11	0.48
3:D:28:ALA:HB1	3:D:35:VAL:HG23	1.95	0.48
1:E:1098:MET:HE3	1:E:1142:PHE:CD1	2.47	0.48
1:E:791:GLU:OE2	1:E:794:ARG:HD3	2.14	0.48
2:F:61:ASP:HB3	2:F:63:PRO:HD3	1.94	0.48
3:G:278:MET:CG	3:G:279:MET:N	2.73	0.48
3:G:91:VAL:CG1	3:G:100:MET:HB2	2.42	0.48
4:X:34:DC:H1'	4:X:35:DA:C5'	2.43	0.48
4:Y:15:DG:H2''	4:Y:16:DA:C8	2.48	0.48
4:Y:36:DG:C8	4:Y:37:DT:H72	2.48	0.48
4:Y:47:DA:C2'	4:Y:48:DG:H5''	2.42	0.48
1:B:1085:TRP:HD1	1:B:1087:GLY:HA3	1.78	0.48
1:B:1139:ILE:HD13	1:B:1157:THR:HG23	1.96	0.48
2:C:250:ASP:CG	2:C:291:GLY:HA3	2.34	0.48
2:C:294:ASP:C	2:C:296:GLY:N	2.67	0.48
2:C:304:GLY:HA2	2:C:714:TYR:CD1	2.41	0.48
2:C:535:TYR:HD1	2:C:558:ALA:HB1	1.78	0.48
2:C:61:ASP:HB3	2:C:63:PRO:HD3	1.94	0.48
2:C:670:ILE:CG2	2:C:671:PRO:HD2	2.43	0.48
2:C:685:TYR:O	2:C:686:PRO:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:948:ASN:ND2	2:C:948:ASN:C	2.66	0.48
3:D:562:THR:HG21	3:D:594:THR:CA	2.43	0.48
1:E:1161:ASN:C	1:E:1163:GLY:H	2.17	0.48
1:E:231:THR:O	1:E:234:GLN:HB2	2.14	0.48
1:E:769:HIS:HA	1:E:775:GLU:O	2.12	0.48
2:F:2:LEU:HD23	2:F:236:ILE:HB	1.94	0.48
2:F:529:THR:O	2:F:533:LEU:HB2	2.13	0.48
3:G:246:ALA:HB1	3:G:251:GLN:HE22	1.79	0.48
3:G:449:PHE:O	3:G:450:GLY:O	2.30	0.48
3:G:462:MET:HE1	3:G:534:TRP:NE1	2.27	0.48
1:B:1052:PRO:HD3	1:B:1106:ARG:NH1	2.28	0.48
1:B:281:GLN:NE2	1:B:283:PRO:HG2	2.29	0.48
1:B:752:VAL:CG1	1:B:809:SER:HB3	2.34	0.48
1:B:1071:ARG:NH1	2:C:29:PRO:HA	2.26	0.48
2:C:304:GLY:O	2:C:307:GLY:N	2.47	0.48
2:C:709:ARG:NH2	2:C:709:ARG:HG2	2.22	0.48
3:D:137:LEU:HD22	3:D:141:LEU:CD1	2.43	0.48
3:D:412:LEU:HD13	3:D:462:MET:HG2	1.95	0.48
3:D:440:LEU:HD22	3:D:552:ILE:HD11	1.94	0.48
1:E:1119:HIS:ND1	1:E:1129:TYR:OH	2.46	0.48
1:E:153:ILE:HG22	1:E:349:LEU:C	2.33	0.48
1:E:8:LEU:HB2	1:E:441:TYR:HB3	1.95	0.48
2:F:318:GLU:OE1	2:F:318:GLU:N	2.46	0.48
2:F:796:PRO:HA	2:F:800:GLN:NE2	2.28	0.48
3:G:279:MET:O	3:G:282:LEU:N	2.46	0.48
3:G:549:ALA:O	3:G:577:LEU:HA	2.14	0.48
4:X:16:DA:C2'	4:X:17:DG:C8	2.96	0.48
1:B:471:ARG:HH11	1:B:472:GLU:CD	2.17	0.48
1:B:507:GLU:HB3	1:B:827:LYS:HE3	1.96	0.48
1:B:920:LEU:HD23	2:C:650:ILE:HD11	1.96	0.48
1:B:947:ARG:HG3	1:B:1086:LEU:CD1	2.27	0.48
2:C:25:ARG:CG	2:C:25:ARG:NH1	2.75	0.48
2:C:277:PHE:CD1	2:C:278:ARG:HG3	2.49	0.48
2:C:441:ASP:O	2:C:649:ARG:NH1	2.46	0.48
2:C:539:SER:CB	2:C:551:ASP:OD1	2.60	0.48
1:B:892:THR:HG21	2:C:804:ARG:HE	1.76	0.48
3:D:211:ARG:O	3:D:212:LEU:C	2.52	0.48
3:D:261:LEU:CB	3:D:287:PRO:HD3	2.44	0.48
1:E:1043:PHE:HD2	1:E:1161:ASN:CB	2.26	0.48
1:E:507:GLU:HA	1:E:850:ALA:HB1	1.95	0.48
1:E:919:ASP:OD1	2:F:652:GLN:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:947:ARG:HG3	1:E:1086:LEU:CD1	2.27	0.48
2:F:245:ARG:HA	2:F:326:PHE:CZ	2.48	0.48
2:F:540:ALA:C	2:F:542:GLY:N	2.67	0.48
2:F:556:LEU:O	2:F:559:GLU:HB2	2.13	0.48
2:F:688:GLN:O	2:F:689:LEU:HB3	2.13	0.48
3:G:567:TYR:O	3:G:571:THR:HG23	2.13	0.48
1:B:1043:PHE:O	1:B:1161:ASN:ND2	2.44	0.48
1:B:1049:GLY:C	1:B:1051:PRO:HD3	2.34	0.48
1:B:1131:TYR:CE2	1:B:1162:ALA:HB2	2.48	0.48
1:B:310:PHE:CD2	1:B:310:PHE:C	2.87	0.48
2:C:261:LEU:HD11	2:C:281:GLU:OE1	2.13	0.48
2:C:318:GLU:OE1	2:C:318:GLU:N	2.46	0.48
2:C:966:ARG:O	2:C:998:LEU:HA	2.13	0.48
3:D:270:GLU:HB3	3:D:273:MET:CE	2.43	0.48
1:E:1074:GLY:C	1:E:1075:ARG:HG2	2.34	0.48
1:E:14:PRO:HA	1:E:48:ALA:HB1	1.96	0.48
1:E:683:ARG:O	1:E:687:ILE:HG13	2.13	0.48
1:E:771:ARG:HD3	1:E:789:LEU:HD22	1.94	0.48
3:G:91:VAL:HG12	3:G:100:MET:HB2	1.94	0.48
3:G:375:ASN:O	3:G:376:ARG:HG2	2.14	0.48
3:G:418:TYR:OH	3:G:530:HIS:HE1	1.95	0.48
1:B:901:TRP:CE3	1:B:1060:GLY:HA2	2.49	0.48
1:B:237:ARG:NH2	1:B:266:ILE:HG23	2.25	0.48
1:B:490:VAL:HG12	1:B:495:THR:HG22	1.95	0.48
1:B:496:GLN:N	1:B:496:GLN:HE21	2.12	0.48
1:B:669:ASN:HB3	1:B:672:GLU:OE2	2.14	0.48
1:B:711:LEU:O	1:B:712:SER:C	2.51	0.48
1:B:84:ARG:O	1:B:87:CYS:HB2	2.14	0.48
2:C:155:VAL:N	2:C:162:GLN:HE22	2.12	0.48
2:C:2:LEU:HD23	2:C:236:ILE:CG2	2.43	0.48
2:C:539:SER:HA	2:C:549:PRO:HG2	1.96	0.48
3:D:567:TYR:O	3:D:571:THR:HG23	2.13	0.48
3:D:556:GLN:HA	3:D:585:ILE:HD12	1.95	0.48
1:E:328:ILE:O	1:E:332:LEU:CD2	2.62	0.48
1:E:760:PHE:CZ	1:E:822:ARG:HG3	2.49	0.48
1:E:905:SER:HB3	1:E:1063:LYS:HB2	1.95	0.48
2:F:138:TYR:HE1	2:F:165:GLN:NE2	2.12	0.48
2:F:664:LEU:HD22	2:F:685:TYR:CZ	2.49	0.48
2:F:77:LEU:HB3	2:F:78:PRO:HD2	1.96	0.48
2:F:976:GLN:HG3	2:F:998:LEU:HD11	1.95	0.48
1:B:1068:LEU:HD12	1:B:1069:VAL:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:ASP:O	1:B:157:SER:N	2.45	0.48
1:B:281:GLN:O	1:B:282:LEU:CB	2.61	0.48
1:B:504:MET:CE	1:B:514:TYR:HA	2.43	0.48
1:B:763:GLN:HE21	1:B:764:GLU:N	2.12	0.48
2:C:334:LEU:HD11	2:C:755:ILE:HD12	1.94	0.48
2:C:834:LEU:CD2	2:C:986:VAL:HG21	2.42	0.48
1:E:281:GLN:O	1:E:282:LEU:CB	2.60	0.48
3:G:130:ILE:O	3:G:132:VAL:HG23	2.14	0.48
3:G:242:ARG:C	3:G:242:ARG:HD3	2.32	0.48
3:G:326:ALA:HB1	3:G:337:VAL:O	2.13	0.48
3:G:550:ALA:CB	3:G:578:SER:HB2	2.44	0.48
1:B:1040:ILE:HD11	1:B:1168:MET:HE1	1.96	0.48
1:B:24:SER:HB2	1:B:27:THR:HG21	1.95	0.48
1:B:667:ALA:C	1:B:669:ASN:H	2.16	0.48
2:C:294:ASP:O	2:C:295:VAL:C	2.52	0.48
2:C:441:ASP:OD2	2:C:662:CYS:HB2	2.14	0.48
2:C:986:VAL:HG12	2:C:987:TYR:N	2.29	0.48
3:D:385:VAL:HG11	3:D:396:ARG:CD	2.41	0.48
3:D:6:GLN:HE21	3:D:6:GLN:HB3	1.55	0.48
1:E:1046:LEU:C	1:E:1048:ALA:H	2.18	0.48
1:E:46:GLY:H	1:E:49:ALA:HB2	1.78	0.48
1:E:826:ASP:O	1:E:827:LYS:C	2.52	0.48
1:E:895:ARG:HG2	1:E:896:LEU:H	1.79	0.48
1:E:954:PHE:CZ	1:E:977:LEU:HD23	2.49	0.48
2:F:107:ASP:HB3	2:F:108:PHE:CD1	2.49	0.48
2:F:294:ASP:C	2:F:296:GLY:N	2.65	0.48
2:F:394:LEU:HD23	2:F:802:TYR:CB	2.44	0.48
3:G:56:SER:C	3:G:58:LEU:N	2.67	0.48
4:X:15:DG:H2''	4:X:16:DA:C8	2.49	0.48
4:Y:34:DC:H1'	4:Y:35:DA:C5'	2.43	0.48
1:B:901:TRP:CH2	1:B:1060:GLY:HA2	2.49	0.48
1:B:1136:GLY:HA2	1:B:1159:ARG:NH1	2.28	0.48
1:B:1077:TYR:CD2	1:B:1137:GLY:HA2	2.49	0.48
1:B:18:GLU:O	1:B:19:ARG:HD3	2.14	0.48
1:B:368:GLU:OE1	1:B:399:ARG:NH1	2.45	0.48
1:B:387:GLN:HG3	1:B:414:ASP:O	2.14	0.48
1:B:677:THR:O	1:B:678:ALA:O	2.31	0.48
2:C:872:LEU:HD13	2:C:916:PHE:CZ	2.47	0.48
2:C:884:LEU:HG	2:C:917:TRP:CH2	2.49	0.48
3:D:274:ILE:HG23	3:D:278:MET:HG2	1.96	0.48
1:E:1136:GLY:HA2	1:E:1159:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1077:TYR:CD2	1:E:1137:GLY:HA2	2.49	0.48
1:E:65:THR:CG2	1:E:66:GLU:N	2.75	0.48
1:E:905:SER:O	1:E:906:TYR:C	2.52	0.48
2:F:1082:ARG:HH11	2:F:1082:ARG:HB2	1.79	0.48
2:F:185:HIS:CE1	2:F:188:ASN:HD22	2.32	0.48
2:F:294:ASP:O	2:F:295:VAL:C	2.52	0.48
1:B:899:ASP:CB	1:B:1059:ARG:HH12	2.18	0.47
1:B:1084:ASN:O	1:B:1085:TRP:O	2.31	0.47
1:B:1040:ILE:HG23	1:B:1112:GLN:NE2	2.28	0.47
1:B:365:GLU:CG	1:B:366:SER:N	2.77	0.47
2:C:1042:GLY:O	2:C:1046:LEU:HB2	2.13	0.47
2:C:262:THR:O	2:C:273:GLU:HG3	2.13	0.47
2:C:354:ASN:HD22	2:C:356:GLU:HB3	1.75	0.47
2:C:571:LEU:O	2:C:575:ARG:HB3	2.15	0.47
2:C:731:TYR:CZ	2:C:744:PRO:HB3	2.49	0.47
3:D:132:VAL:HG12	3:D:133:ASP:H	1.79	0.47
3:D:150:GLU:O	3:D:151:ILE:C	2.52	0.47
3:D:178:THR:HG23	3:D:179:THR:H	1.78	0.47
3:D:461:PHE:CZ	3:D:465:LYS:HE3	2.49	0.47
3:D:597:ARG:HH11	3:D:598:SER:CB	2.27	0.47
3:D:65:HIS:CB	3:D:66:PRO:CD	2.72	0.47
1:E:1132:GLU:HA	1:E:1159:ARG:HH22	1.79	0.47
1:E:268:LYS:CE	1:E:268:LYS:HA	2.44	0.47
1:E:269:ILE:HG22	1:E:270:SER:N	2.29	0.47
1:E:522:CYS:O	1:E:526:ILE:HD13	2.14	0.47
1:E:452:GLY:HA2	1:E:864:ASP:OD1	2.15	0.47
1:E:84:ARG:O	1:E:87:CYS:HB2	2.14	0.47
2:F:685:TYR:O	2:F:686:PRO:C	2.51	0.47
2:F:830:GLU:O	2:F:831:THR:OG1	2.20	0.47
3:G:211:ARG:O	3:G:212:LEU:C	2.52	0.47
1:B:1074:GLY:C	1:B:1075:ARG:HG2	2.33	0.47
1:B:153:ILE:HG13	1:B:154:GLU:N	2.29	0.47
1:B:328:ILE:O	1:B:332:LEU:CD2	2.62	0.47
1:B:434:ARG:HH21	1:B:474:PRO:HD2	1.79	0.47
1:B:469:MET:SD	1:B:795:LEU:HD11	2.54	0.47
2:C:1077:GLY:H	2:C:1083:GLY:N	2.11	0.47
2:C:348:ARG:HG3	2:C:365:ARG:NH1	2.29	0.47
2:C:848:PHE:O	2:C:852:ARG:HB3	2.14	0.47
3:D:403:ASP:O	3:D:406:ALA:HB3	2.14	0.47
1:E:1126:ILE:HD12	1:E:1126:ILE:N	2.29	0.47
1:E:646:ASP:O	1:E:649:ARG:CG	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:120:ASP:O	2:F:121:LYS:HB2	2.14	0.47
2:F:233:HIS:O	2:F:234:ILE:HD12	2.14	0.47
3:G:118:THR:HA	3:G:121:ARG:NH1	2.29	0.47
3:G:403:ASP:O	3:G:406:ALA:HB3	2.13	0.47
1:B:469:MET:O	1:B:470:PHE:CD2	2.66	0.47
1:B:50:PHE:HE2	1:B:52:ARG:HD3	1.77	0.47
1:B:747:LEU:HB3	1:B:749:TYR:CE1	2.49	0.47
1:B:802:LEU:HD22	1:B:806:LEU:CD2	2.45	0.47
1:B:416:LYS:HE2	1:B:803:TYR:CE2	2.49	0.47
1:B:809:SER:HG	1:B:813:CYS:HB2	1.77	0.47
2:C:104:GLU:N	2:C:112:ARG:HH11	2.12	0.47
2:C:45:TRP:HB2	2:C:670:ILE:HD13	1.96	0.47
3:D:375:ASN:O	3:D:376:ARG:HG2	2.14	0.47
3:D:525:SER:C	3:D:527:LEU:H	2.18	0.47
3:D:98:THR:HG23	3:D:99:PRO:HD2	1.96	0.47
1:E:1070:PHE:CE1	1:E:1077:TYR:HB2	2.49	0.47
1:E:1084:ASN:O	1:E:1085:TRP:O	2.32	0.47
1:E:434:ARG:HH21	1:E:474:PRO:HD2	1.79	0.47
2:F:277:PHE:CD1	2:F:278:ARG:N	2.82	0.47
2:F:14:GLU:HG3	2:F:49:THR:HG21	1.95	0.47
3:G:199:ILE:HG23	3:G:265:VAL:HG22	1.96	0.47
3:G:261:LEU:HD23	3:G:261:LEU:HA	1.35	0.47
3:G:397:LEU:HB2	3:G:580:TYR:CE2	2.49	0.47
3:G:300:GLN:NE2	3:G:568:THR:HG22	2.29	0.47
4:Y:16:DA:C2'	4:Y:17:DG:H8	2.27	0.47
1:B:1007:VAL:HG22	1:B:1072:HIS:CD2	2.49	0.47
1:B:268:LYS:CA	1:B:268:LYS:HE3	2.45	0.47
2:C:394:LEU:HD23	2:C:802:TYR:HB2	1.96	0.47
2:C:482:ARG:NH1	2:C:482:ARG:HG2	2.28	0.47
2:C:615:GLN:OE1	2:C:644:ARG:HD3	2.14	0.47
2:C:716:PHE:CB	2:C:747:LEU:HD13	2.44	0.47
2:C:8:ASN:HD21	2:C:343:LEU:HD11	1.79	0.47
3:D:211:ARG:HA	3:D:214:GLU:CG	2.44	0.47
3:D:230:LYS:C	3:D:232:ARG:N	2.66	0.47
3:D:553:LEU:HB3	3:D:554:PRO:HD2	1.97	0.47
1:E:286:LEU:CD1	1:E:306:ARG:HD3	2.28	0.47
1:E:374:ILE:HG21	1:E:400:ILE:HD13	1.97	0.47
2:F:313:LEU:HD21	2:F:703:ARG:HB3	1.97	0.47
3:G:11:VAL:HG21	3:G:21:VAL:HG11	1.96	0.47
3:G:343:THR:O	3:G:344:GLU:HB2	2.14	0.47
4:X:47:DA:C2'	4:X:48:DG:H5''	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:5:5IU:H2'	4:Y:5:5IU:H6	1.47	0.47
1:B:1119:HIS:ND1	1:B:1129:TYR:OH	2.48	0.47
1:B:1142:PHE:O	1:B:1144:ARG:O	2.31	0.47
1:B:414:ASP:OD1	1:B:416:LYS:N	2.46	0.47
1:B:689:HIS:HE1	1:B:725:GLN:O	1.97	0.47
1:B:760:PHE:CZ	1:B:822:ARG:HG3	2.50	0.47
2:C:378:VAL:HG22	2:C:731:TYR:CZ	2.50	0.47
2:C:388:VAL:HG22	2:C:799:ARG:NH1	2.28	0.47
2:C:540:ALA:C	2:C:542:GLY:N	2.68	0.47
2:C:556:LEU:O	2:C:559:GLU:HB2	2.15	0.47
2:C:411:MET:HB3	2:C:664:LEU:HD12	1.95	0.47
2:C:915:ILE:O	2:C:919:THR:CG2	2.63	0.47
1:E:355:LEU:HD11	1:E:392:GLN:NE2	2.30	0.47
1:E:861:CYS:SG	1:E:866:ALA:CA	3.00	0.47
2:F:142:ARG:O	2:F:145:TRP:HB2	2.14	0.47
3:G:184:LEU:HD11	3:G:293:ILE:CD1	2.45	0.47
3:G:212:LEU:HD22	3:G:216:LEU:CD1	2.44	0.47
3:G:253:LEU:HD13	3:G:255:HIS:HE2	1.79	0.47
1:B:417:GLN:HG2	1:B:804:VAL:HG22	1.96	0.47
1:B:455:ASN:HD22	1:B:455:ASN:N	2.11	0.47
1:B:658:MET:HB2	1:B:695:GLN:HG3	1.95	0.47
1:B:902:ARG:HH21	1:B:902:ARG:HG3	1.80	0.47
2:C:989:ALA:HB1	2:C:1017:LEU:CD2	2.45	0.47
2:C:142:ARG:O	2:C:145:TRP:HB2	2.15	0.47
2:C:308:ARG:O	2:C:311:ILE:HG22	2.14	0.47
2:C:87:ASN:ND2	2:C:87:ASN:C	2.67	0.47
3:D:256:HIS:CG	3:D:257:ALA:N	2.82	0.47
3:D:412:LEU:HD11	3:D:461:PHE:HD2	1.80	0.47
3:D:51:VAL:HG13	3:D:112:MET:SD	2.54	0.47
3:D:440:LEU:HB2	3:D:535:ALA:HA	1.96	0.47
3:D:533:THR:C	3:D:535:ALA:H	2.17	0.47
1:E:1068:LEU:HD12	1:E:1069:VAL:H	1.80	0.47
1:E:106:ASP:OD2	1:E:109:GLN:HB2	2.15	0.47
1:E:177:ARG:HE	1:E:181:GLN:NE2	2.12	0.47
1:E:362:LEU:HD23	1:E:370:LEU:HD23	1.96	0.47
1:E:504:MET:HE3	1:E:514:TYR:HA	1.97	0.47
2:F:312:TYR:CD1	2:F:313:LEU:HD23	2.49	0.47
3:G:308:ALA:O	3:G:597:ARG:NH2	2.48	0.47
4:X:2:5IU:H3'	4:X:3:5IU:C5'	2.43	0.47
1:B:246:LEU:HD23	1:B:307:HIS:NE2	2.30	0.47
1:B:646:ASP:O	1:B:649:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:LYS:HE2	1:B:803:TYR:CZ	2.50	0.47
2:C:160:GLU:C	2:C:162:GLN:N	2.68	0.47
2:C:254:PRO:O	2:C:257:LEU:HG	2.15	0.47
2:C:545:GLN:C	2:C:547:VAL:H	2.17	0.47
2:C:882:GLN:HA	2:C:969:PRO:HG2	1.97	0.47
3:D:185:LEU:HD23	3:D:188:LEU:HD12	1.97	0.47
3:D:242:ARG:O	3:D:242:ARG:HD3	2.15	0.47
1:E:1101:ALA:HA	1:E:1104:ALA:HB3	1.95	0.47
1:E:415:PRO:HB3	1:E:430:TYR:CE2	2.50	0.47
1:E:610:ASN:ND2	1:E:613:ARG:NH1	2.59	0.47
2:F:239:LEU:N	2:F:239:LEU:CD1	2.78	0.47
2:F:393:LEU:HD22	2:F:408:ILE:HG21	1.96	0.47
2:F:478:VAL:HG13	2:F:600:LEU:O	2.14	0.47
2:F:749:GLN:HA	2:F:752:ILE:HD11	1.97	0.47
3:G:52:CYS:SG	3:G:106:ARG:HG2	2.54	0.47
3:G:137:LEU:HD22	3:G:141:LEU:CD1	2.44	0.47
3:G:547:ASP:HA	3:G:574:ARG:HB2	1.97	0.47
3:G:91:VAL:HA	3:G:98:THR:HG21	1.95	0.47
1:B:629:GLU:CD	2:C:852:ARG:HH12	2.18	0.47
1:B:826:ASP:O	1:B:827:LYS:C	2.52	0.47
2:C:30:PHE:O	2:C:32:PRO:HD3	2.15	0.47
2:C:4:VAL:O	2:C:322:GLU:HA	2.14	0.47
2:C:592:ARG:HH11	2:C:592:ARG:HB2	1.80	0.47
2:C:832:VAL:CG2	2:C:832:VAL:O	2.59	0.47
2:C:947:CYS:O	2:C:948:ASN:ND2	2.45	0.47
3:D:120:ALA:HA	3:D:604:PHE:CE2	2.50	0.47
3:D:244:LEU:CD1	3:D:285:ALA:CB	2.93	0.47
1:E:1052:PRO:HD3	1:E:1106:ARG:NH1	2.30	0.47
1:E:181:GLN:HB2	2:F:915:ILE:HD11	1.97	0.47
1:E:199:ARG:HG3	1:E:199:ARG:NH1	2.29	0.47
1:E:947:ARG:HD3	1:E:947:ARG:N	2.28	0.47
2:F:1030:GLY:HA2	2:F:1035:LEU:HB2	1.97	0.47
2:F:470:VAL:O	2:F:473:LEU:HB2	2.14	0.47
2:F:87:ASN:C	2:F:87:ASN:ND2	2.68	0.47
2:F:880:ILE:HG23	2:F:901:PHE:CE1	2.50	0.47
3:G:108:TYR:HB2	3:G:113:TRP:HB2	1.96	0.47
3:G:254:ARG:HG3	3:G:259:ASN:HD21	1.77	0.47
4:X:37:DT:H1'	4:X:38:DG:H5''	1.97	0.47
1:B:1050:CYS:C	1:B:1052:PRO:CD	2.81	0.47
1:B:1101:ALA:O	1:B:1104:ALA:HB3	2.15	0.47
1:B:262:GLN:HA	1:B:265:TRP:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:GLU:HG3	1:B:57:GLU:H	1.36	0.47
1:B:66:GLU:HA	1:B:66:GLU:OE1	2.14	0.47
2:C:87:ASN:ND2	2:C:87:ASN:O	2.47	0.47
1:E:1093:TYR:CE2	1:E:1144:ARG:HB2	2.50	0.47
1:E:268:LYS:CA	1:E:268:LYS:HE3	2.45	0.47
1:E:281:GLN:NE2	1:E:283:PRO:HG2	2.29	0.47
1:E:504:MET:CE	1:E:514:TYR:HA	2.45	0.47
1:E:568:ARG:HG3	1:E:568:ARG:HH11	1.80	0.47
2:F:360:ARG:NH1	2:F:766:ALA:HB2	2.29	0.47
2:F:545:GLN:C	2:F:547:VAL:H	2.17	0.47
2:F:941:MET:HG2	2:F:942:GLU:N	2.29	0.47
3:G:161:ALA:HB3	3:G:184:LEU:HD21	1.96	0.47
4:Y:7:5IU:C3'	4:Y:8:DC:H5'	2.20	0.47
1:B:522:CYS:O	1:B:526:ILE:HD13	2.15	0.47
1:B:907:SER:C	1:B:909:LEU:N	2.68	0.47
2:C:1050:TYR:HD1	2:C:1057:MET:HE2	1.80	0.47
2:C:1076:GLU:O	2:C:1076:GLU:HG3	2.14	0.47
2:C:197:LEU:HD13	2:C:230:LEU:HA	1.97	0.47
2:C:519:THR:CG2	2:C:521:GLN:H	2.21	0.47
3:D:201:LEU:HG	3:D:233:ILE:HG21	1.96	0.47
3:D:409:GLU:C	3:D:411:ALA:H	2.17	0.47
3:D:455:ASN:O	3:D:459:GLU:HG3	2.14	0.47
3:D:459:GLU:O	3:D:463:GLN:HG3	2.15	0.47
1:E:1085:TRP:HD1	1:E:1087:GLY:HA3	1.79	0.47
1:E:531:GLN:O	1:E:535:ARG:HD3	2.15	0.47
2:F:104:GLU:N	2:F:112:ARG:HH11	2.13	0.47
2:F:159:GLY:O	2:F:160:GLU:O	2.33	0.47
2:F:737:GLN:HG3	2:F:738:ASP:N	2.25	0.47
2:F:858:ARG:HB2	2:F:858:ARG:CZ	2.43	0.47
3:G:219:ALA:O	3:G:223:LEU:HD22	2.14	0.47
3:G:259:ASN:CB	3:G:260:PRO:CD	2.78	0.47
1:B:1036:LEU:O	1:B:1040:ILE:HG12	2.15	0.47
1:B:236:TRP:CZ2	1:B:262:GLN:NE2	2.82	0.47
1:B:282:LEU:HD23	1:B:310:PHE:HE2	1.80	0.47
1:B:473:ILE:HG22	1:B:473:ILE:O	2.15	0.47
1:B:785:GLU:N	1:B:785:GLU:OE1	2.45	0.47
2:C:26:LEU:HB2	2:C:210:ARG:HH22	1.80	0.47
2:C:984:HIS:O	2:C:987:TYR:HB3	2.14	0.47
3:D:261:LEU:HB3	3:D:287:PRO:HD3	1.97	0.47
3:D:51:VAL:HG11	3:D:276:LEU:CD1	2.45	0.47
1:E:262:GLN:HA	1:E:265:TRP:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:729:LEU:N	1:E:729:LEU:HD22	2.26	0.47
1:E:902:ARG:HH21	1:E:902:ARG:HG3	1.80	0.47
2:F:308:ARG:O	2:F:311:ILE:HG22	2.14	0.47
2:F:570:GLN:HA	2:F:573:ILE:HD12	1.97	0.47
2:F:872:LEU:HD13	2:F:916:PHE:CZ	2.49	0.47
3:G:246:ALA:CA	3:G:253:LEU:HD23	2.44	0.47
3:G:261:LEU:HB3	3:G:287:PRO:HD3	1.96	0.47
3:G:240:LEU:CD2	3:G:274:ILE:HD12	2.45	0.47
3:G:51:VAL:HG11	3:G:276:LEU:HD12	1.96	0.47
3:G:343:THR:OG1	3:G:344:GLU:N	2.48	0.47
1:B:199:ARG:NH1	1:B:199:ARG:HG3	2.29	0.46
1:B:221:ARG:HG2	1:B:221:ARG:NH1	2.31	0.46
1:B:252:ILE:HG12	1:B:254:ARG:HG2	1.97	0.46
1:B:904:THR:OG1	1:B:1058:VAL:HG11	2.15	0.46
1:B:905:SER:O	1:B:906:TYR:C	2.52	0.46
2:C:1063:THR:C	2:C:1065:GLN:N	2.69	0.46
2:C:393:LEU:CD2	2:C:408:ILE:HG21	2.45	0.46
2:C:971:LEU:N	2:C:971:LEU:HD22	2.30	0.46
3:D:184:LEU:HD13	3:D:184:LEU:C	2.35	0.46
3:D:244:LEU:O	3:D:253:LEU:HD22	2.15	0.46
3:D:549:ALA:O	3:D:577:LEU:HA	2.15	0.46
1:E:237:ARG:NH2	1:E:266:ILE:HG23	2.24	0.46
2:F:175:TYR:CZ	2:F:179:LEU:HD11	2.50	0.46
2:F:358:PHE:HA	2:F:769:CYS:SG	2.55	0.46
2:F:557:ILE:HD13	2:F:557:ILE:N	2.17	0.46
2:F:973:SER:OG	2:F:976:GLN:HB2	2.15	0.46
3:G:52:CYS:HB3	3:G:108:TYR:CE2	2.50	0.46
3:G:550:ALA:HB2	3:G:578:SER:HB2	1.98	0.46
4:X:22:DG:C3'	4:X:23:DC:C5'	2.91	0.46
1:B:1123:ARG:HA	1:B:1129:TYR:CD1	2.50	0.46
1:B:1126:ILE:HD12	1:B:1126:ILE:N	2.30	0.46
1:B:17:GLY:HA2	1:B:408:ALA:HA	1.97	0.46
2:C:233:HIS:O	2:C:234:ILE:HD12	2.14	0.46
2:C:282:ASN:HB3	2:C:283:ALA:H	1.36	0.46
2:C:415:ILE:CB	2:C:663:THR:HG23	2.42	0.46
3:D:264:ASP:OD1	3:D:289:HIS:NE2	2.47	0.46
3:D:272:SER:HB3	3:D:310:LEU:HD23	1.96	0.46
3:D:366:GLY:HA3	3:D:393:ILE:HD13	1.97	0.46
3:D:449:PHE:HZ	3:D:555:SER:HB2	1.80	0.46
1:E:471:ARG:HD2	1:E:471:ARG:H	1.74	0.46
2:F:1087:ASP:O	2:F:1091:GLN:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:689:LEU:CD2	2:F:708:ARG:HD2	2.45	0.46
2:F:731:TYR:CE2	2:F:744:PRO:HB3	2.51	0.46
2:F:731:TYR:CZ	2:F:744:PRO:HB3	2.50	0.46
2:F:966:ARG:O	2:F:998:LEU:HA	2.16	0.46
3:G:17:ARG:HB2	3:G:18:PRO:CD	2.36	0.46
3:G:270:GLU:HB3	3:G:273:MET:HE2	1.97	0.46
3:G:272:SER:HB3	3:G:310:LEU:HD23	1.96	0.46
3:G:556:GLN:O	3:G:557:ARG:HB2	2.15	0.46
1:B:104:ILE:HB	1:B:107:LYS:CE	2.42	0.46
1:B:177:ARG:HE	1:B:181:GLN:NE2	2.14	0.46
1:B:65:THR:CG2	1:B:66:GLU:N	2.79	0.46
1:B:683:ARG:O	1:B:687:ILE:HG13	2.14	0.46
2:C:998:LEU:HD22	2:C:1000:LEU:CD2	2.45	0.46
2:C:1021:SER:O	2:C:1025:GLU:N	2.47	0.46
2:C:164:TRP:O	2:C:167:PRO:HD2	2.15	0.46
2:C:18:GLU:OE2	2:C:53:LYS:HB2	2.16	0.46
2:C:388:VAL:HA	2:C:799:ARG:NH1	2.30	0.46
2:C:408:ILE:HG23	2:C:674:VAL:CG1	2.45	0.46
2:C:807:LEU:N	2:C:808:PRO:HD2	2.30	0.46
3:D:282:LEU:O	3:D:286:LEU:HG	2.15	0.46
1:E:265:TRP:CD1	1:E:265:TRP:C	2.89	0.46
1:E:600:LEU:HD12	1:E:711:LEU:HD12	1.97	0.46
1:E:747:LEU:HB3	1:E:749:TYR:CE1	2.50	0.46
1:E:763:GLN:HE21	1:E:764:GLU:N	2.13	0.46
2:F:478:VAL:HG21	2:F:605:THR:HG21	1.97	0.46
3:G:409:GLU:C	3:G:411:ALA:H	2.18	0.46
4:Y:37:DT:H1'	4:Y:38:DG:H5''	1.97	0.46
1:B:1093:TYR:CE2	1:B:1144:ARG:HB2	2.51	0.46
1:B:1098:MET:HE1	1:B:1156:TYR:HB2	1.95	0.46
1:B:469:MET:HG3	1:B:469:MET:O	2.16	0.46
1:B:14:PRO:HA	1:B:48:ALA:HB1	1.98	0.46
1:B:637:ALA:O	1:B:640:VAL:HB	2.16	0.46
2:C:393:LEU:HD22	2:C:408:ILE:HG21	1.96	0.46
2:C:360:ARG:NH1	2:C:766:ALA:HB2	2.30	0.46
2:C:957:PRO:O	2:C:958:GLN:C	2.53	0.46
3:D:531:GLU:HG3	3:D:531:GLU:O	2.15	0.46
3:D:301:LEU:N	3:D:568:THR:HG21	2.29	0.46
3:D:93:ARG:NH1	3:D:93:ARG:HG2	2.31	0.46
1:E:1123:ARG:HA	1:E:1129:TYR:CD1	2.49	0.46
1:E:646:ASP:HA	1:E:649:ARG:HG2	1.97	0.46
1:E:688:LEU:O	1:E:691:SER:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:63:THR:OG1	1:E:69:THR:HG22	2.15	0.46
1:E:469:MET:SD	1:E:795:LEU:HD12	2.55	0.46
1:E:920:LEU:HD13	2:F:608:ALA:HA	1.97	0.46
2:F:615:GLN:OE1	2:F:644:ARG:HD3	2.16	0.46
2:F:971:LEU:N	2:F:971:LEU:HD22	2.31	0.46
3:G:317:ALA:C	3:G:319:ALA:H	2.19	0.46
3:G:449:PHE:HZ	3:G:555:SER:HB2	1.81	0.46
3:G:316:TYR:CE1	3:G:604:PHE:HB2	2.41	0.46
3:G:65:HIS:O	3:G:66:PRO:C	2.51	0.46
2:F:846:ARG:HH12	4:Y:7:5IU:H2'	1.79	0.46
1:B:222:HIS:CE1	1:B:226:VAL:CG2	2.98	0.46
1:B:629:GLU:CD	2:C:852:ARG:NH1	2.69	0.46
1:B:469:MET:SD	1:B:795:LEU:HD12	2.56	0.46
1:B:937:GLU:HA	1:B:938:PRO:HD2	1.69	0.46
2:C:1055:ASP:OD1	2:C:1118:ARG:NH2	2.49	0.46
2:C:72:MET:HG3	2:C:230:LEU:HD11	1.97	0.46
2:C:582:ARG:HD3	2:C:587:TRP:CZ2	2.51	0.46
2:C:943:ILE:O	2:C:953:THR:HA	2.14	0.46
2:C:976:GLN:HG3	2:C:998:LEU:HD11	1.97	0.46
3:D:279:MET:O	3:D:280:SER:C	2.52	0.46
3:D:449:PHE:O	3:D:450:GLY:O	2.33	0.46
1:E:390:ASP:OD1	1:E:393:GLN:HG3	2.16	0.46
1:E:637:ALA:O	1:E:640:VAL:HB	2.15	0.46
1:E:871:GLN:HA	1:E:871:GLN:OE1	2.15	0.46
1:E:904:THR:OG1	1:E:1058:VAL:HG11	2.16	0.46
1:E:983:GLU:HB3	1:E:985:GLN:OE1	2.15	0.46
2:F:228:GLN:HE22	2:F:318:GLU:N	2.00	0.46
1:E:705:HIS:CG	2:F:487:GLU:HG3	2.51	0.46
2:F:670:ILE:CG2	2:F:671:PRO:HD2	2.46	0.46
2:F:767:LEU:HD23	2:F:767:LEU:H	1.79	0.46
3:G:226:THR:C	3:G:228:GLU:N	2.61	0.46
3:G:462:MET:CE	3:G:534:TRP:HE1	2.23	0.46
3:G:73:SER:O	3:G:75:ILE:HG13	2.16	0.46
1:B:1161:ASN:C	1:B:1163:GLY:H	2.19	0.46
1:B:166:ASP:O	1:B:170:ARG:HG2	2.15	0.46
1:B:307:HIS:ND1	1:B:308:PRO:CD	2.73	0.46
1:B:42:LEU:CB	1:B:44:LEU:HD13	2.44	0.46
1:B:573:LEU:HD23	1:B:573:LEU:O	2.16	0.46
2:C:220:PRO:HD2	2:C:223:TYR:CD1	2.51	0.46
2:C:731:TYR:CE2	2:C:744:PRO:HB3	2.51	0.46
3:D:240:LEU:CD2	3:D:274:ILE:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:278:MET:O	3:D:279:MET:C	2.54	0.46
1:E:1007:VAL:HG22	1:E:1072:HIS:CD2	2.50	0.46
1:E:1137:GLY:O	1:E:1138:VAL:HB	2.15	0.46
1:E:237:ARG:HH21	1:E:266:ILE:CG2	2.25	0.46
1:E:252:ILE:HG12	1:E:254:ARG:HG2	1.97	0.46
1:E:387:GLN:HG3	1:E:414:ASP:O	2.15	0.46
1:E:606:PRO:HB2	1:E:642:VAL:HG13	1.98	0.46
1:E:648:TYR:CE2	1:E:664:LEU:HD13	2.51	0.46
1:E:802:LEU:HD22	1:E:806:LEU:CD2	2.45	0.46
1:E:937:GLU:O	1:E:939:THR:N	2.44	0.46
2:F:386:VAL:HG12	2:F:425:VAL:CG2	2.44	0.46
2:F:551:ASP:OD2	2:F:551:ASP:N	2.35	0.46
2:F:831:THR:HG22	2:F:951:GLN:HB2	1.97	0.46
2:F:957:PRO:O	2:F:958:GLN:C	2.54	0.46
3:G:240:LEU:CD2	3:G:274:ILE:CD1	2.94	0.46
3:G:562:THR:HG21	3:G:594:THR:HG23	1.97	0.46
1:B:148:PHE:HD1	2:C:126:GLN:HE21	1.64	0.46
1:B:265:TRP:CD1	1:B:265:TRP:C	2.89	0.46
1:B:262:GLN:C	1:B:265:TRP:HB3	2.36	0.46
1:B:319:GLU:HA	1:B:320:PRO:HD2	1.61	0.46
1:B:771:ARG:CG	1:B:771:ARG:HH11	2.28	0.46
2:C:190:TYR:CE1	2:C:191:GLN:HG3	2.51	0.46
2:C:377:HIS:NE2	2:C:728:TYR:CE1	2.84	0.46
3:D:242:ARG:C	3:D:242:ARG:HD3	2.34	0.46
3:D:343:THR:O	3:D:344:GLU:HB2	2.15	0.46
3:D:123:PHE:HB3	3:D:348:LEU:HG	1.96	0.46
3:D:526:ARG:NE	3:D:526:ARG:CA	2.77	0.46
1:E:1161:ASN:O	1:E:1162:ALA:HB3	2.15	0.46
1:E:15:LEU:HD13	1:E:40:LEU:HD23	1.96	0.46
1:E:945:PHE:CD1	1:E:946:PRO:HD2	2.51	0.46
2:F:94:LYS:O	2:F:98:LEU:HG	2.16	0.46
3:G:201:LEU:HG	3:G:233:ILE:HG22	1.97	0.46
3:G:292:VAL:HG11	3:G:294:PHE:CZ	2.51	0.46
3:G:316:TYR:CE1	3:G:604:PHE:HB3	2.51	0.46
3:G:93:ARG:NH1	3:G:93:ARG:HG2	2.30	0.46
1:B:1027:ILE:O	1:B:1027:ILE:HG13	2.16	0.46
1:B:380:VAL:CG2	1:B:408:ALA:HB3	2.42	0.46
1:B:945:PHE:CD1	1:B:946:PRO:HD2	2.51	0.46
2:C:450:VAL:O	2:C:453:ALA:HB3	2.15	0.46
2:C:844:PRO:O	2:C:847:ALA:HB3	2.16	0.46
2:C:885:LEU:HD11	2:C:927:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:7:LEU:O	3:D:10:ALA:HB3	2.15	0.46
3:D:15:GLN:O	3:D:16:LEU:HB3	2.15	0.46
1:E:1049:GLY:C	1:E:1051:PRO:HD3	2.35	0.46
1:E:282:LEU:HD23	1:E:310:PHE:HE2	1.81	0.46
1:E:39:ARG:NH1	1:E:39:ARG:HG3	2.30	0.46
1:E:582:SER:OG	1:E:743:LYS:HG3	2.16	0.46
1:E:906:TYR:CG	1:E:906:TYR:O	2.69	0.46
2:F:1021:SER:O	2:F:1025:GLU:N	2.47	0.46
2:F:245:ARG:HA	2:F:326:PHE:CE1	2.51	0.46
2:F:352:GLY:HA3	2:F:358:PHE:HB2	1.98	0.46
2:F:334:LEU:HD11	2:F:755:ILE:HD12	1.97	0.46
3:G:118:THR:O	3:G:283:ILE:CD1	2.64	0.46
3:G:242:ARG:O	3:G:242:ARG:HD3	2.15	0.46
3:G:274:ILE:CG2	3:G:279:MET:HG2	2.45	0.46
3:G:282:LEU:O	3:G:286:LEU:HG	2.16	0.46
3:G:122:PHE:HB2	3:G:283:ILE:HD12	1.97	0.46
3:G:393:ILE:O	3:G:577:LEU:N	2.44	0.46
1:B:1038:THR:O	1:B:1041:ARG:HB3	2.16	0.46
1:B:1070:PHE:CE1	1:B:1077:TYR:HB2	2.51	0.46
1:B:1098:MET:HE3	1:B:1142:PHE:CD1	2.47	0.46
1:B:252:ILE:HG12	1:B:254:ARG:H	1.81	0.46
1:B:263:ALA:O	1:B:266:ILE:HG12	2.16	0.46
1:B:83:LEU:HD22	1:B:83:LEU:O	2.15	0.46
2:C:246:TYR:CD2	2:C:275:PRO:HD3	2.51	0.46
2:C:429:ALA:HA	2:C:430:PRO:HD2	1.83	0.46
2:C:474:LEU:HD21	2:C:485:ILE:HD12	1.98	0.46
2:C:985:LEU:HB2	2:C:1020:LEU:HD13	1.97	0.46
3:D:263:LEU:O	3:D:263:LEU:HD12	2.16	0.46
1:E:155:ASP:O	1:E:157:SER:N	2.48	0.46
1:E:165:ALA:O	1:E:169:ARG:HG3	2.16	0.46
1:E:166:ASP:O	1:E:170:ARG:HG2	2.16	0.46
1:E:169:ARG:O	1:E:173:TYR:HB2	2.16	0.46
1:E:587:VAL:CG1	1:E:690:ILE:HG13	2.46	0.46
1:E:932:ALA:HB2	1:E:947:ARG:CG	2.46	0.46
2:F:1027:TYR:CD1	2:F:1027:TYR:C	2.88	0.46
2:F:393:LEU:CD2	2:F:408:ILE:HG21	2.46	0.46
2:F:18:GLU:OE2	2:F:53:LYS:HB2	2.15	0.46
2:F:571:LEU:O	2:F:575:ARG:HB3	2.15	0.46
1:E:190:PRO:HG3	2:F:870:PHE:CZ	2.51	0.46
2:F:884:LEU:O	2:F:888:LEU:HG	2.15	0.46
3:G:279:MET:O	3:G:280:SER:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:279:MET:O	3:G:281:ARG:N	2.48	0.46
3:G:455:ASN:HD21	3:G:532:THR:C	2.20	0.46
1:B:226:VAL:HG13	1:B:269:ILE:HD13	1.98	0.46
1:B:597:LEU:HD23	1:B:597:LEU:O	2.16	0.46
1:B:646:ASP:HA	1:B:649:ARG:HG2	1.98	0.46
1:B:895:ARG:HG2	1:B:896:LEU:H	1.81	0.46
2:C:1027:TYR:CD1	2:C:1027:TYR:C	2.88	0.46
2:C:159:GLY:O	2:C:160:GLU:O	2.34	0.46
2:C:871:ILE:HD13	2:C:871:ILE:HA	1.79	0.46
3:D:185:LEU:HA	3:D:188:LEU:HB2	1.98	0.46
1:E:283:PRO:CD	1:E:314:ASP:HB2	2.44	0.46
1:B:544:ASP:OD2	1:E:495:THR:HG23	2.15	0.46
1:E:683:ARG:NE	2:F:1095:ARG:NH1	2.64	0.46
1:E:728:ARG:CB	1:E:728:ARG:HH21	2.29	0.46
3:G:7:LEU:O	3:G:10:ALA:HB3	2.16	0.46
3:G:261:LEU:HD12	3:G:286:LEU:HA	1.98	0.46
3:G:264:ASP:O	3:G:291:ARG:N	2.47	0.46
2:C:850:GLN:NE2	4:X:7:5IU:HN3	2.10	0.46
1:B:707:LEU:O	1:B:710:TRP:HB3	2.16	0.45
2:C:102:LEU:HD13	2:C:108:PHE:CZ	2.51	0.45
2:C:901:PHE:HD1	2:C:917:TRP:CZ3	2.34	0.45
3:D:184:LEU:HD11	3:D:293:ILE:CD1	2.46	0.45
3:D:344:GLU:HG3	3:D:345:ALA:H	1.77	0.45
3:D:361:PHE:C	3:D:361:PHE:CD1	2.89	0.45
3:D:537:THR:OG1	3:D:540:LYS:HG3	2.16	0.45
1:E:1082:LYS:HD2	1:E:1140:TYR:CE1	2.50	0.45
1:E:1148:LYS:HD2	1:E:1148:LYS:N	2.30	0.45
1:E:236:TRP:CZ2	1:E:262:GLN:NE2	2.84	0.45
1:E:380:VAL:CG2	1:E:408:ALA:HB3	2.43	0.45
1:E:416:LYS:HD2	1:E:468:PHE:CZ	2.51	0.45
1:E:600:LEU:HD11	1:E:694:LEU:HD21	1.98	0.45
1:E:728:ARG:HE	2:F:739:ASN:HB2	1.81	0.45
1:E:907:SER:C	1:E:909:LEU:N	2.69	0.45
2:F:989:ALA:HB1	2:F:1017:LEU:CD2	2.45	0.45
2:F:160:GLU:C	2:F:162:GLN:N	2.67	0.45
1:E:1071:ARG:NH1	2:F:29:PRO:HA	2.30	0.45
2:F:388:VAL:HA	2:F:799:ARG:NH1	2.31	0.45
2:F:404:THR:HB	2:F:405:PRO:HD2	1.97	0.45
1:E:1124:HIS:HE1	2:F:54:PHE:CD1	2.34	0.45
2:F:645:LEU:HA	2:F:645:LEU:HD12	1.79	0.45
2:F:821:VAL:O	2:F:821:VAL:HG22	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:828:LEU:HB2	2:F:1028:ARG:HD2	1.98	0.45
3:G:91:VAL:HG12	3:G:100:MET:HB3	1.98	0.45
3:G:115:ASN:OD1	3:G:277:PRO:HA	2.16	0.45
3:G:201:LEU:HG	3:G:233:ILE:HG21	1.97	0.45
1:B:1051:PRO:O	1:B:1052:PRO:O	2.34	0.45
1:B:1148:LYS:HD2	1:B:1148:LYS:N	2.30	0.45
1:B:467:ALA:C	1:B:469:MET:H	2.20	0.45
1:B:582:SER:OG	1:B:743:LYS:HG3	2.16	0.45
1:B:942:PRO:HB3	1:B:993:TRP:CE2	2.51	0.45
1:B:983:GLU:HB3	1:B:985:GLN:OE1	2.16	0.45
2:C:24:GLU:O	2:C:210:ARG:NH2	2.50	0.45
2:C:26:LEU:HB2	2:C:210:ARG:NH2	2.31	0.45
2:C:334:LEU:O	2:C:338:ILE:HG12	2.16	0.45
2:C:545:GLN:C	2:C:547:VAL:N	2.69	0.45
2:C:968:ARG:HA	2:C:969:PRO:HD3	1.82	0.45
3:D:108:TYR:HB2	3:D:113:TRP:HB2	1.97	0.45
1:E:221:ARG:HG2	1:E:221:ARG:HH11	1.81	0.45
1:E:345:ARG:NH1	1:E:346:ARG:HG2	2.31	0.45
1:E:55:THR:HG21	1:E:57:GLU:OE2	2.15	0.45
1:E:586:SER:O	1:E:589:GLU:OE1	2.34	0.45
2:F:998:LEU:HD22	2:F:1000:LEU:CD2	2.46	0.45
2:F:207:LEU:CB	2:F:208:PRO:CD	2.93	0.45
2:F:228:GLN:HE21	2:F:319:SER:H	1.63	0.45
2:F:36:LEU:HD21	2:F:68:PHE:CD1	2.50	0.45
2:F:885:LEU:HD11	2:F:927:LEU:HD13	1.98	0.45
2:F:984:HIS:O	2:F:987:TYR:HB3	2.16	0.45
3:G:131:GLU:O	3:G:131:GLU:HG2	2.16	0.45
3:G:244:LEU:HD22	3:G:255:HIS:CG	2.50	0.45
3:G:366:GLY:C	3:G:393:ILE:HG21	2.35	0.45
1:B:1018:GLN:NE2	2:C:32:PRO:HG3	2.31	0.45
1:B:212:PRO:O	1:B:213:PRO:C	2.54	0.45
1:B:269:ILE:HG22	1:B:270:SER:N	2.31	0.45
1:B:374:ILE:HG21	1:B:400:ILE:HD13	1.96	0.45
2:C:1036:LEU:O	2:C:1037:VAL:CB	2.60	0.45
2:C:775:ARG:HB3	2:C:775:ARG:HH11	1.82	0.45
2:C:943:ILE:CG2	2:C:986:VAL:HG13	2.45	0.45
2:C:991:GLY:O	2:C:992:GLY:C	2.55	0.45
2:C:552:GLU:OE2	3:D:251:GLN:N	2.49	0.45
1:E:901:TRP:CE3	1:E:1060:GLY:HA2	2.52	0.45
1:E:1068:LEU:HD12	1:E:1069:VAL:N	2.31	0.45
1:E:1108:ASP:O	1:E:1111:TYR:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:246:LEU:HD23	1:E:307:HIS:NE2	2.32	0.45
1:E:310:PHE:C	1:E:310:PHE:CD2	2.89	0.45
1:E:469:MET:O	1:E:469:MET:HG3	2.16	0.45
1:E:513:ASP:O	1:E:517:THR:HG22	2.17	0.45
2:F:1118:ARG:NH2	2:F:1118:ARG:CG	2.79	0.45
2:F:968:ARG:HA	2:F:969:PRO:HD3	1.81	0.45
3:G:270:GLU:HB3	3:G:273:MET:CE	2.47	0.45
3:G:278:MET:SD	4:Y:2:5IU:I5	3.44	0.45
3:G:526:ARG:HH22	3:G:533:THR:HG22	1.81	0.45
1:B:1002:LEU:HD22	1:B:1007:VAL:HG12	1.97	0.45
1:B:1108:ASP:O	1:B:1111:TYR:HB2	2.16	0.45
1:B:225:ILE:HG23	1:B:321:LEU:HD23	1.97	0.45
1:B:527:ARG:HD2	1:B:527:ARG:C	2.36	0.45
1:B:709:ARG:O	1:B:713:GLN:NE2	2.50	0.45
1:B:954:PHE:CZ	1:B:977:LEU:HD23	2.52	0.45
2:C:208:PRO:O	2:C:234:ILE:HG13	2.16	0.45
2:C:531:MET:HE3	2:C:561:VAL:HG22	1.99	0.45
2:C:548:LEU:HD22	2:C:549:PRO:HD2	1.98	0.45
3:D:343:THR:OG1	3:D:344:GLU:N	2.49	0.45
3:D:582:ASP:HB2	3:D:585:ILE:HG12	1.98	0.45
3:D:80:ASN:O	3:D:83:GLU:N	2.49	0.45
1:E:1027:ILE:HA	1:E:1172:PHE:HD1	1.82	0.45
1:E:73:ARG:HH11	1:E:73:ARG:HB3	1.81	0.45
2:F:117:ASP:O	2:F:118:ASP:HB3	2.17	0.45
2:F:304:GLY:O	2:F:307:GLY:N	2.49	0.45
1:E:1018:GLN:NE2	2:F:30:PHE:O	2.49	0.45
2:F:30:PHE:O	2:F:32:PRO:HD3	2.17	0.45
2:F:848:PHE:O	2:F:852:ARG:HB3	2.17	0.45
3:G:1:MET:HB3	3:G:2:LYS:H	1.65	0.45
4:X:16:DA:C2'	4:X:17:DG:H8	2.30	0.45
1:B:106:ASP:OD2	1:B:109:GLN:HB2	2.16	0.45
1:B:947:ARG:HD2	1:B:1086:LEU:HD21	1.99	0.45
1:B:1170:GLU:O	1:B:1174:GLY:N	2.48	0.45
1:B:252:ILE:CG2	1:B:254:ARG:HB2	2.46	0.45
1:B:568:ARG:HG3	1:B:568:ARG:HH11	1.80	0.45
1:B:924:LEU:O	1:B:926:VAL:N	2.48	0.45
1:B:97:TYR:O	1:B:100:LEU:HB2	2.17	0.45
1:B:988:PRO:O	1:B:991:THR:HG22	2.16	0.45
2:C:831:THR:HG22	2:C:951:GLN:HB2	1.98	0.45
3:D:126:VAL:HG13	3:D:166:ILE:H	1.82	0.45
3:D:126:VAL:HG13	3:D:166:ILE:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:224:PRO:O	3:D:225:LEU:HB2	2.17	0.45
3:D:31:GLU:OE2	3:D:88:SER:HB2	2.16	0.45
3:D:427:GLU:N	3:D:428:PRO:CD	2.80	0.45
1:E:901:TRP:CH2	1:E:1060:GLY:HA2	2.52	0.45
1:E:146:MET:CE	1:E:150:GLN:HG3	2.46	0.45
1:E:24:SER:HB2	1:E:27:THR:HG21	1.97	0.45
1:E:252:ILE:HG12	1:E:254:ARG:H	1.81	0.45
1:E:812:HIS:CG	1:E:813:CYS:N	2.85	0.45
2:F:947:CYS:SG	2:F:1021:SER:OG	2.68	0.45
3:G:261:LEU:CB	3:G:287:PRO:HD3	2.47	0.45
3:G:441:LEU:HA	3:G:536:MET:O	2.16	0.45
2:F:878:TYR:CG	4:Y:9:5IU:H4'	2.51	0.45
1:B:1062:LEU:CD2	1:B:1113:LEU:HD22	2.46	0.45
1:B:169:ARG:O	1:B:173:TYR:HB2	2.17	0.45
1:B:427:ILE:O	1:B:430:TYR:HB3	2.17	0.45
2:C:207:LEU:HB2	2:C:234:ILE:HD11	1.98	0.45
2:C:240:PHE:HE2	2:C:242:ASN:ND2	2.15	0.45
2:C:333:ASN:HD22	2:C:336:HIS:CD2	2.35	0.45
2:C:445:ARG:HH11	2:C:452:GLU:CD	2.20	0.45
3:D:161:ALA:HB3	3:D:184:LEU:HD21	1.97	0.45
3:D:192:ALA:O	3:D:193:ASP:C	2.55	0.45
3:D:405:ILE:O	3:D:409:GLU:HG3	2.16	0.45
3:D:525:SER:O	3:D:527:LEU:N	2.49	0.45
3:D:79:GLN:HG3	3:D:80:ASN:N	2.32	0.45
1:E:1040:ILE:HD11	1:E:1168:MET:HE1	1.98	0.45
2:F:535:TYR:HD1	2:F:558:ALA:HB1	1.81	0.45
3:G:192:ALA:O	3:G:193:ASP:C	2.55	0.45
3:G:301:LEU:O	3:G:305:GLU:HG2	2.16	0.45
3:G:322:THR:HG23	3:G:350:ASP:OD1	2.16	0.45
3:G:375:ASN:ND2	3:G:567:TYR:CE1	2.85	0.45
3:G:412:LEU:HD22	3:G:462:MET:CG	2.47	0.45
3:G:455:ASN:ND2	3:G:533:THR:O	2.49	0.45
4:Y:22:DG:C3'	4:Y:23:DC:C5'	2.92	0.45
4:Y:45:DT:C2'	4:Y:46:5IU:H5'	2.46	0.45
1:B:434:ARG:CG	1:B:434:ARG:HH11	2.30	0.45
1:B:513:ASP:O	1:B:517:THR:CG2	2.65	0.45
1:B:514:TYR:O	1:B:514:TYR:CD1	2.70	0.45
1:B:784:PRO:O	1:B:788:ASP:OD1	2.35	0.45
1:B:860:LEU:HG	1:B:860:LEU:O	2.17	0.45
1:B:892:THR:HG22	2:C:804:ARG:CZ	2.46	0.45
2:C:142:ARG:NH2	2:C:705:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:392:ARG:O	2:C:396:MET:HG2	2.16	0.45
1:B:1061:MET:HE1	2:C:52:GLN:HG3	1.99	0.45
2:C:955:TRP:CD1	3:D:262:HIS:NE2	2.85	0.45
3:D:302:ALA:HA	3:D:305:GLU:HG2	1.99	0.45
3:D:73:SER:O	3:D:75:ILE:HG13	2.17	0.45
3:D:80:ASN:HB3	3:D:83:GLU:CB	2.39	0.45
2:F:1100:GLU:N	2:F:1100:GLU:OE1	2.50	0.45
2:F:273:GLU:CA	2:F:273:GLU:OE2	2.64	0.45
2:F:244:CYS:SG	2:F:345:LEU:HB2	2.57	0.45
2:F:450:VAL:O	2:F:453:ALA:HB3	2.16	0.45
3:G:184:LEU:C	3:G:184:LEU:HD13	2.36	0.45
3:G:223:LEU:HD23	3:G:223:LEU:N	2.30	0.45
1:B:1082:LYS:O	1:B:1142:PHE:HA	2.16	0.45
1:B:345:ARG:NH1	1:B:346:ARG:HG2	2.32	0.45
1:B:586:SER:O	1:B:589:GLU:OE1	2.35	0.45
1:B:595:GLU:HA	1:B:598:TRP:HE3	1.82	0.45
1:B:860:LEU:HD23	1:B:860:LEU:H	1.82	0.45
1:B:900:ASN:O	1:B:900:ASN:CG	2.54	0.45
2:C:277:PHE:CD1	2:C:278:ARG:N	2.84	0.45
2:C:440:SER:O	2:C:441:ASP:CB	2.65	0.45
3:D:131:GLU:O	3:D:131:GLU:HG2	2.17	0.45
3:D:247:GLN:O	3:D:251:GLN:HA	2.17	0.45
3:D:455:ASN:ND2	3:D:533:THR:O	2.49	0.45
1:E:427:ILE:O	1:E:430:TYR:HB3	2.17	0.45
1:E:681:GLU:O	1:E:685:THR:HG23	2.17	0.45
1:E:557:LEU:HB2	1:E:754:LEU:HD12	1.99	0.45
1:E:83:LEU:O	1:E:83:LEU:HD22	2.16	0.45
1:E:919:ASP:OD2	2:F:653:ARG:NH1	2.50	0.45
2:F:220:PRO:HD2	2:F:223:TYR:CD1	2.51	0.45
2:F:377:HIS:NE2	2:F:728:TYR:CE1	2.84	0.45
2:F:841:TRP:O	2:F:842:ALA:HB3	2.16	0.45
3:G:126:VAL:HG13	3:G:166:ILE:CD1	2.47	0.45
3:G:307:GLY:CA	3:G:597:ARG:HH21	2.30	0.45
4:X:34:DC:H1'	4:X:35:DA:H5'	1.98	0.45
4:X:45:DT:C2'	4:X:46:5IU:H5'	2.45	0.45
1:B:154:GLU:HG2	1:B:155:ASP:N	2.32	0.45
1:B:193:LEU:O	1:B:193:LEU:HD23	2.17	0.45
1:B:252:ILE:HG23	1:B:254:ARG:H	1.82	0.45
1:B:728:ARG:CB	1:B:728:ARG:HH21	2.30	0.45
1:B:741:ILE:HG21	1:B:801:LEU:HD22	1.99	0.45
2:C:104:GLU:N	2:C:112:ARG:HG3	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:272:ARG:O	2:C:273:GLU:HB2	2.17	0.45
3:D:126:VAL:HA	3:D:166:ILE:HD13	1.98	0.45
3:D:301:LEU:HD22	3:D:565:LEU:HA	1.99	0.45
3:D:116:GLU:HG2	3:D:603:LEU:HD12	1.99	0.45
1:E:12:ARG:HG3	1:E:12:ARG:O	2.17	0.45
1:E:527:ARG:C	1:E:527:ARG:HD2	2.38	0.45
1:E:689:HIS:HE1	1:E:725:GLN:O	1.99	0.45
3:G:526:ARG:HH12	3:G:536:MET:HE2	1.81	0.45
3:G:79:GLN:HG3	3:G:80:ASN:N	2.32	0.45
4:Y:34:DC:H2''	4:Y:35:DA:H5'	1.99	0.45
1:B:561:ARG:HH12	1:B:584:ARG:HB2	1.81	0.45
1:B:648:TYR:CE2	1:B:664:LEU:HD13	2.51	0.45
1:B:871:GLN:OE1	1:B:871:GLN:HA	2.16	0.45
2:C:1030:GLY:HA2	2:C:1035:LEU:HB2	1.98	0.45
2:C:138:TYR:HE1	2:C:165:GLN:HE22	1.64	0.45
2:C:821:VAL:O	2:C:821:VAL:HG22	2.15	0.45
2:C:538:GLU:HB3	3:D:111:ARG:NH1	2.32	0.45
3:D:330:SER:HA	3:D:335:THR:O	2.17	0.45
3:D:427:GLU:N	3:D:428:PRO:HD2	2.32	0.45
3:D:597:ARG:C	3:D:597:ARG:CD	2.85	0.45
1:E:262:GLN:C	1:E:265:TRP:HB3	2.37	0.45
1:E:504:MET:HE3	1:E:514:TYR:HD2	1.81	0.45
1:E:513:ASP:O	1:E:517:THR:CG2	2.65	0.45
1:E:709:ARG:O	1:E:713:GLN:NE2	2.50	0.45
1:E:831:THR:C	1:E:833:VAL:N	2.70	0.45
1:E:988:PRO:O	1:E:991:THR:HG22	2.16	0.45
1:B:1061:MET:HG3	2:C:48:MET:HE3	1.99	0.44
1:B:73:ARG:HB3	1:B:73:ARG:HH11	1.82	0.44
1:B:812:HIS:CG	1:B:813:CYS:N	2.84	0.44
1:B:854:ARG:NH1	1:B:854:ARG:HG2	2.32	0.44
1:B:89:ARG:C	1:B:91:THR:N	2.70	0.44
2:C:177:HIS:O	2:C:180:GLY:N	2.47	0.44
2:C:185:HIS:HB2	2:C:186:ARG:H	1.30	0.44
2:C:245:ARG:HA	2:C:326:PHE:CZ	2.53	0.44
2:C:278:ARG:O	2:C:279:ASP:C	2.56	0.44
2:C:313:LEU:HD21	2:C:703:ARG:HB3	1.99	0.44
2:C:358:PHE:CZ	2:C:768:ASN:OD1	2.70	0.44
3:D:317:ALA:C	3:D:319:ALA:H	2.20	0.44
3:D:547:ASP:HA	3:D:574:ARG:HB2	1.99	0.44
1:E:1036:LEU:O	1:E:1040:ILE:HG12	2.17	0.44
1:E:1137:GLY:O	1:E:1158:THR:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:52:ARG:HG2	1:E:52:ARG:HH21	1.82	0.44
1:E:752:VAL:CG1	1:E:809:SER:HB3	2.33	0.44
2:F:261:LEU:HD11	2:F:281:GLU:OE1	2.17	0.44
2:F:273:GLU:HA	2:F:273:GLU:OE2	2.17	0.44
2:F:403:LEU:HD22	2:F:404:THR:O	2.17	0.44
2:F:915:ILE:O	2:F:919:THR:CG2	2.65	0.44
2:F:951:GLN:O	2:F:952:ILE:CG2	2.64	0.44
3:G:282:LEU:HD23	3:G:286:LEU:HG	1.99	0.44
3:G:385:VAL:HG21	3:G:396:ARG:NH1	2.32	0.44
4:X:12:DT:C2'	4:X:13:DG:H5'	2.35	0.44
1:B:328:ILE:O	1:B:331:ALA:N	2.50	0.44
1:B:386:PHE:C	1:B:388:ASP:H	2.21	0.44
1:B:600:LEU:HD12	1:B:711:LEU:HD12	1.99	0.44
2:C:656:ALA:O	2:C:658:PRO:CD	2.59	0.44
3:D:118:THR:O	3:D:283:ILE:CD1	2.65	0.44
3:D:15:GLN:O	3:D:16:LEU:CB	2.64	0.44
3:D:303:SER:O	3:D:311:GLY:HA3	2.16	0.44
1:E:252:ILE:CG2	1:E:254:ARG:HB2	2.46	0.44
1:E:328:ILE:O	1:E:331:ALA:N	2.50	0.44
1:E:431:MET:O	1:E:434:ARG:HB3	2.17	0.44
1:E:573:LEU:HD23	1:E:573:LEU:O	2.17	0.44
1:E:595:GLU:HA	1:E:598:TRP:HE3	1.82	0.44
1:E:950:SER:N	1:E:951:PRO:HD2	2.32	0.44
2:F:582:ARG:HD3	2:F:587:TRP:CZ2	2.52	0.44
2:F:641:LEU:HD22	2:F:645:LEU:HD22	1.99	0.44
2:F:374:ILE:HG12	2:F:727:LEU:HB3	2.00	0.44
3:G:241:HIS:CB	4:Y:3:5IU:H4'	2.46	0.44
3:G:425:ARG:O	3:G:425:ARG:HG3	2.16	0.44
1:B:267:ASP:C	1:B:269:ILE:N	2.69	0.44
2:C:125:PHE:HB2	2:C:636:LEU:HD21	1.98	0.44
2:C:161:ALA:O	2:C:165:GLN:HG3	2.18	0.44
2:C:172:LEU:HD23	2:C:172:LEU:O	2.17	0.44
2:C:872:LEU:HD22	2:C:880:ILE:HD12	1.99	0.44
3:D:102:LEU:HD12	3:D:106:ARG:O	2.18	0.44
3:D:201:LEU:HG	3:D:233:ILE:HG22	1.97	0.44
3:D:261:LEU:HD12	3:D:286:LEU:HA	1.99	0.44
3:D:333:THR:C	3:D:335:THR:H	2.21	0.44
3:D:425:ARG:O	3:D:425:ARG:HG3	2.17	0.44
1:E:1158:THR:HG22	1:E:1159:ARG:N	2.32	0.44
1:E:154:GLU:HG2	1:E:155:ASP:H	1.82	0.44
1:E:194:LEU:HD22	1:E:198:ASN:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:39:ARG:HD2	1:E:44:LEU:HB3	1.98	0.44
1:E:416:LYS:HE2	1:E:803:TYR:CZ	2.52	0.44
1:E:467:ALA:C	1:E:469:MET:H	2.20	0.44
1:E:586:SER:HB2	1:E:724:SER:O	2.17	0.44
1:E:83:LEU:CD1	1:E:114:LEU:HD11	2.47	0.44
2:F:190:TYR:C	2:F:190:TYR:CD1	2.91	0.44
2:F:333:ASN:O	2:F:337:ASN:ND2	2.50	0.44
1:E:170:ARG:HA	2:F:517:PRO:CG	2.47	0.44
4:Y:12:DT:C2'	4:Y:13:DG:H5'	2.35	0.44
4:Y:8:DC:H2''	4:Y:9:5IU:O5'	2.17	0.44
2:C:311:ILE:O	2:C:311:ILE:HD13	2.18	0.44
2:C:749:GLN:HA	2:C:752:ILE:HD11	1.99	0.44
3:D:551:LEU:N	3:D:578:SER:O	2.43	0.44
1:E:222:HIS:CE1	1:E:226:VAL:CG2	3.01	0.44
1:E:581:LEU:HD21	1:E:728:ARG:HH12	1.82	0.44
1:E:63:THR:HG22	1:E:384:ASP:OD1	2.17	0.44
1:E:809:SER:HG	1:E:813:CYS:HB2	1.80	0.44
1:E:900:ASN:O	1:E:900:ASN:CG	2.55	0.44
1:E:937:GLU:HA	1:E:938:PRO:HD2	1.68	0.44
2:F:1019:TYR:C	2:F:1021:SER:N	2.71	0.44
2:F:112:ARG:HH11	2:F:112:ARG:CG	2.26	0.44
2:F:139:LEU:HD23	2:F:146:LEU:HD12	1.99	0.44
2:F:374:ILE:HA	2:F:727:LEU:O	2.17	0.44
2:F:388:VAL:HG22	2:F:799:ARG:HH12	1.82	0.44
3:G:15:GLN:O	3:G:16:LEU:CB	2.64	0.44
3:G:333:THR:C	3:G:335:THR:H	2.20	0.44
3:G:359:TYR:CD1	3:G:360:ARG:N	2.85	0.44
3:G:80:ASN:HB3	3:G:83:GLU:CB	2.41	0.44
4:X:34:DC:H2''	4:X:35:DA:H5'	1.99	0.44
1:B:1118:LEU:HD22	1:B:1122:LEU:HG	1.99	0.44
1:B:233:LYS:O	1:B:237:ARG:CG	2.66	0.44
1:B:402:HIS:NE2	1:B:403:HIS:CD2	2.86	0.44
1:B:486:ALA:HB3	1:B:542:ASN:OD1	2.17	0.44
1:B:626:LEU:O	1:B:630:THR:HG23	2.18	0.44
1:B:876:GLN:N	1:B:877:PRO:CD	2.81	0.44
2:C:312:TYR:CD1	2:C:313:LEU:HD23	2.52	0.44
2:C:377:HIS:CD2	2:C:728:TYR:CE1	3.06	0.44
2:C:582:ARG:HD3	2:C:587:TRP:CE2	2.53	0.44
2:C:951:GLN:O	2:C:952:ILE:CG2	2.62	0.44
3:D:133:ASP:O	3:D:135:ALA:N	2.50	0.44
3:D:132:VAL:CG1	3:D:134:GLU:HG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:199:ILE:HG23	3:D:265:VAL:HG22	1.98	0.44
1:E:154:GLU:HG2	1:E:155:ASP:N	2.32	0.44
1:E:236:TRP:CZ3	1:E:240:VAL:HG21	2.53	0.44
1:E:268:LYS:C	1:E:268:LYS:HE3	2.38	0.44
1:E:518:MET:CE	1:E:816:GLY:HA3	2.48	0.44
2:F:172:LEU:O	2:F:172:LEU:HD23	2.18	0.44
2:F:457:LEU:HB3	2:F:594:MET:CE	2.47	0.44
2:F:964:LEU:HB2	2:F:996:SER:CB	2.47	0.44
3:G:562:THR:CG2	3:G:594:THR:HG23	2.48	0.44
4:Y:16:DA:H2'	4:Y:17:DG:C8	2.52	0.44
1:B:286:LEU:CD1	1:B:306:ARG:HD3	2.29	0.44
1:B:362:LEU:HD11	1:B:396:ILE:HG23	1.98	0.44
1:B:5:ALA:HB1	1:B:441:TYR:HA	1.99	0.44
1:B:672:GLU:O	2:C:814:GLY:HA3	2.17	0.44
1:B:763:GLN:HE21	1:B:764:GLU:H	1.65	0.44
2:C:117:ASP:O	2:C:118:ASP:HB3	2.18	0.44
2:C:91:MET:HB2	2:C:132:ALA:HB1	2.00	0.44
2:C:287:PHE:HB2	2:C:293:GLN:HB3	2.00	0.44
2:C:478:VAL:HG13	2:C:600:LEU:O	2.17	0.44
2:C:75:ARG:NH1	2:C:208:PRO:HD3	2.33	0.44
3:D:255:HIS:HA	3:D:260:PRO:HD2	2.00	0.44
3:D:53:LEU:CD1	3:D:58:LEU:HD12	2.47	0.44
1:E:1027:ILE:HG13	1:E:1027:ILE:O	2.17	0.44
1:E:1082:LYS:O	1:E:1142:PHE:HA	2.18	0.44
1:E:120:GLN:HA	1:E:120:GLN:OE1	2.18	0.44
1:E:168:TRP:O	1:E:172:CYS:HB2	2.18	0.44
1:E:225:ILE:HG23	1:E:321:LEU:HD23	1.99	0.44
1:E:550:ARG:O	1:E:553:ASP:N	2.40	0.44
1:E:669:ASN:HB3	1:E:672:GLU:OE2	2.16	0.44
1:E:854:ARG:NH1	1:E:854:ARG:HG2	2.33	0.44
2:F:24:GLU:O	2:F:210:ARG:NH2	2.50	0.44
2:F:45:TRP:HB2	2:F:670:ILE:HD13	1.99	0.44
2:F:530:ARG:HG2	2:F:547:VAL:CG1	2.48	0.44
2:F:540:ALA:O	2:F:541:GLN:HB2	2.18	0.44
2:F:845:VAL:HG13	2:F:1093:LEU:HD11	1.99	0.44
3:G:137:LEU:HD22	3:G:141:LEU:HD11	2.00	0.44
3:G:551:LEU:N	3:G:578:SER:O	2.44	0.44
1:B:1158:THR:HG22	1:B:1159:ARG:N	2.33	0.44
1:B:236:TRP:CZ3	1:B:240:VAL:HG21	2.53	0.44
1:B:416:LYS:HD2	1:B:468:PHE:CZ	2.53	0.44
1:B:761:ARG:CG	1:B:822:ARG:HH22	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:906:TYR:O	1:B:906:TYR:CG	2.69	0.44
1:B:934:VAL:O	1:B:934:VAL:HG12	2.17	0.44
2:C:207:LEU:CB	2:C:208:PRO:CD	2.92	0.44
2:C:352:GLY:HA3	2:C:358:PHE:HB2	1.99	0.44
2:C:14:GLU:HG3	2:C:49:THR:HG21	1.98	0.44
3:D:154:GLN:HA	3:D:355:LEU:HD22	2.00	0.44
1:E:1036:LEU:HA	1:E:1039:LEU:HD21	2.00	0.44
1:E:1051:PRO:O	1:E:1052:PRO:O	2.35	0.44
1:E:514:TYR:CD1	1:E:514:TYR:O	2.70	0.44
1:E:62:VAL:HG23	1:E:62:VAL:O	2.17	0.44
1:E:771:ARG:CG	1:E:771:ARG:HH11	2.28	0.44
2:F:1050:TYR:OH	2:F:1118:ARG:HA	2.18	0.44
2:F:177:HIS:O	2:F:180:GLY:N	2.45	0.44
2:F:392:ARG:HD3	2:F:392:ARG:HA	1.86	0.44
2:F:985:LEU:HB2	2:F:1020:LEU:HD13	2.00	0.44
3:G:133:ASP:OD2	3:G:136:LEU:HB3	2.18	0.44
4:Y:23:DC:H2"	4:Y:24:DT:C6	2.52	0.44
1:B:1148:LYS:CD	1:B:1148:LYS:H	2.31	0.44
1:B:62:VAL:HA	1:B:127:PHE:O	2.18	0.44
1:B:15:LEU:HD13	1:B:40:LEU:HD23	2.00	0.44
1:B:182:VAL:HG21	1:B:272:TRP:CH2	2.53	0.44
1:B:283:PRO:CD	1:B:314:ASP:HB2	2.42	0.44
1:B:610:ASN:ND2	1:B:613:ARG:NH1	2.64	0.44
1:B:728:ARG:HG3	1:B:728:ARG:H	1.57	0.44
1:B:823:ARG:NH2	1:B:828:LYS:NZ	2.65	0.44
2:C:1100:GLU:N	2:C:1100:GLU:OE1	2.51	0.44
2:C:117:ASP:OD2	2:C:117:ASP:N	2.51	0.44
2:C:173:VAL:O	2:C:176:THR:HG23	2.18	0.44
2:C:333:ASN:O	2:C:337:ASN:ND2	2.51	0.44
2:C:415:ILE:H	2:C:663:THR:CG2	2.31	0.44
2:C:534:GLY:O	2:C:536:ALA:O	2.36	0.44
3:D:405:ILE:HA	3:D:408:LEU:HD12	1.99	0.44
1:E:1038:THR:O	1:E:1041:ARG:HB3	2.18	0.44
1:E:193:LEU:O	1:E:193:LEU:HD23	2.17	0.44
1:E:252:ILE:HG23	1:E:254:ARG:H	1.82	0.44
1:E:402:HIS:NE2	1:E:403:HIS:CD2	2.86	0.44
1:E:490:VAL:CG1	1:E:495:THR:HG22	2.48	0.44
1:E:514:TYR:CE2	1:E:518:MET:HG3	2.53	0.44
1:E:552:SER:HB3	1:E:733:LYS:O	2.18	0.44
1:E:563:GLU:O	1:E:567:VAL:HG23	2.17	0.44
1:E:613:ARG:HD2	2:F:854:GLN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:104:GLU:H	2:F:112:ARG:HH11	1.65	0.44
3:G:252:ARG:O	3:G:253:LEU:HG	2.17	0.44
3:G:200:ARG:CB	3:G:263:LEU:HD23	2.32	0.44
3:G:330:SER:HA	3:G:335:THR:O	2.18	0.44
1:B:222:HIS:CG	1:B:272:TRP:HH2	2.36	0.44
1:B:513:ASP:O	1:B:517:THR:HG22	2.17	0.44
1:B:563:GLU:O	1:B:567:VAL:HG23	2.17	0.44
2:C:1038:LEU:HD22	2:C:1090:TYR:CE1	2.53	0.44
2:C:194:ILE:HG23	2:C:229:ALA:HB2	1.99	0.44
2:C:885:LEU:HD12	2:C:969:PRO:CG	2.34	0.44
3:D:137:LEU:HD22	3:D:141:LEU:HD11	1.99	0.44
3:D:126:VAL:CG2	3:D:166:ILE:HD13	2.40	0.44
3:D:170:SER:HA	3:D:296:GLY:O	2.17	0.44
3:D:385:VAL:HG21	3:D:396:ARG:NH1	2.33	0.44
1:E:153:ILE:HG13	1:E:154:GLU:N	2.31	0.44
1:E:200:TYR:O	1:E:201:LEU:CB	2.54	0.44
1:E:375:ARG:HD2	1:E:404:GLN:NE2	2.33	0.44
1:E:447:TRP:O	1:E:448:ARG:HB2	2.17	0.44
1:E:837:ALA:O	1:E:841:LEU:HG	2.18	0.44
1:E:934:VAL:HG12	1:E:934:VAL:O	2.18	0.44
2:F:1042:GLY:O	2:F:1046:LEU:HB2	2.18	0.44
2:F:103:LEU:HD11	2:F:115:LEU:HD13	1.98	0.44
2:F:333:ASN:HB2	2:F:336:HIS:H	1.83	0.44
2:F:363:ASN:ND2	2:F:363:ASN:N	2.30	0.44
2:F:709:ARG:CG	2:F:709:ARG:NH2	2.80	0.44
2:F:716:PHE:CG	2:F:747:LEU:HD13	2.53	0.44
2:F:537:MET:CA	3:G:110:ASN:HB3	2.47	0.44
3:G:213:THR:CG2	3:G:235:GLU:CA	2.92	0.44
3:G:266:LEU:HD23	3:G:286:LEU:HD21	1.99	0.44
3:G:275:ASP:OD1	4:Y:2:5IU:O4	2.35	0.44
3:G:389:ASP:C	3:G:391:THR:N	2.52	0.44
3:G:531:GLU:O	3:G:531:GLU:HG3	2.18	0.44
3:G:541:SER:O	3:G:544:SER:HB2	2.18	0.44
3:G:397:LEU:HB2	3:G:580:TYR:CD2	2.53	0.44
4:X:23:DC:H2"	4:X:24:DT:C6	2.53	0.44
1:B:268:LYS:HE3	1:B:268:LYS:C	2.38	0.43
1:B:447:TRP:O	1:B:448:ARG:CB	2.66	0.43
1:B:460:LEU:O	1:B:463:GLN:HG2	2.17	0.43
1:B:766:ALA:HB2	1:B:787:VAL:HG22	1.99	0.43
2:C:998:LEU:HD22	2:C:1000:LEU:HD21	2.00	0.43
2:C:388:VAL:HG22	2:C:799:ARG:HH12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1:MET:CG	2:C:3:ARG:HE	2.28	0.43
2:C:760:TYR:HE1	2:C:765:GLU:HG3	1.82	0.43
3:D:119:VAL:CG1	3:D:600:LEU:HD21	2.48	0.43
3:D:244:LEU:HB3	3:D:255:HIS:NE2	2.32	0.43
3:D:278:MET:HE3	4:X:2:5IU:I5	2.88	0.43
3:D:376:ARG:HB3	3:D:377:GLY:H	1.63	0.43
1:E:1108:ASP:O	1:E:1112:GLN:OE1	2.36	0.43
1:E:228:ARG:HD2	1:E:316:LEU:HD21	2.00	0.43
1:E:584:ARG:NH1	1:E:584:ARG:HG2	2.33	0.43
1:E:66:GLU:HA	1:E:66:GLU:OE1	2.18	0.43
2:F:287:PHE:HB2	2:F:293:GLN:HB3	1.99	0.43
2:F:37:VAL:HG21	2:F:42:MET:CB	2.47	0.43
2:F:396:MET:HE1	2:F:674:VAL:HG13	1.99	0.43
2:F:531:MET:HE3	2:F:561:VAL:HG22	2.00	0.43
3:G:212:LEU:HA	3:G:212:LEU:HD23	1.85	0.43
3:G:555:SER:O	3:G:556:GLN:HG2	2.18	0.43
3:G:565:LEU:C	3:G:565:LEU:HD23	2.39	0.43
3:G:33:PRO:HG3	3:G:73:SER:HB3	2.00	0.43
2:F:1080:MET:HG3	4:Y:11:DA:N3	2.33	0.43
4:Y:46:5IU:C2'	4:Y:47:DA:C5'	2.77	0.43
1:B:237:ARG:HE	1:B:266:ILE:HG21	1.83	0.43
1:B:504:MET:HE3	1:B:514:TYR:HD2	1.83	0.43
1:B:600:LEU:HD22	1:B:652:TRP:CH2	2.53	0.43
1:B:729:LEU:N	1:B:729:LEU:HD22	2.26	0.43
1:B:984:SER:C	1:B:986:TRP:H	2.21	0.43
2:C:104:GLU:H	2:C:112:ARG:HH11	1.64	0.43
2:C:245:ARG:HA	2:C:326:PHE:CE1	2.53	0.43
2:C:273:GLU:CA	2:C:273:GLU:OE2	2.65	0.43
2:C:3:ARG:HG3	2:C:3:ARG:HH21	1.82	0.43
3:D:91:VAL:HG13	3:D:100:MET:CE	2.47	0.43
3:D:176:GLY:O	3:D:180:THR:HB	2.18	0.43
3:D:213:THR:HG21	3:D:235:GLU:CA	2.48	0.43
3:D:538:VAL:HG21	3:D:565:LEU:CD2	2.48	0.43
1:E:1062:LEU:CD2	1:E:1113:LEU:HD22	2.46	0.43
1:E:62:VAL:HA	1:E:127:PHE:O	2.18	0.43
1:E:646:ASP:O	1:E:649:ARG:HG3	2.17	0.43
1:E:823:ARG:NH2	1:E:828:LYS:NZ	2.66	0.43
2:F:1015:GLN:O	2:F:1018:HIS:HB3	2.18	0.43
2:F:1063:THR:C	2:F:1065:GLN:N	2.71	0.43
2:F:1076:GLU:HG3	2:F:1076:GLU:O	2.17	0.43
2:F:396:MET:HE2	2:F:674:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:404:THR:OG1	2:F:406:ARG:HG3	2.18	0.43
2:F:445:ARG:NH1	2:F:452:GLU:OE1	2.51	0.43
2:F:525:ARG:HG2	2:F:525:ARG:HH11	1.83	0.43
2:F:634:LEU:O	2:F:635:SER:C	2.56	0.43
2:F:7:SER:HB3	2:F:13:LEU:CG	2.42	0.43
3:G:212:LEU:O	3:G:216:LEU:HB2	2.18	0.43
3:G:225:LEU:CD2	3:G:229:GLN:HA	2.49	0.43
3:G:263:LEU:HD12	3:G:263:LEU:O	2.19	0.43
4:X:16:DA:H2'	4:X:17:DG:C8	2.53	0.43
1:B:1032:ILE:H	1:B:1032:ILE:HD12	1.82	0.43
1:B:100:LEU:O	1:B:104:ILE:HG13	2.19	0.43
1:B:1093:TYR:CZ	1:B:1144:ARG:HB2	2.53	0.43
1:B:1137:GLY:O	1:B:1138:VAL:HB	2.18	0.43
1:B:120:GLN:HA	1:B:120:GLN:OE1	2.17	0.43
1:B:638:TRP:O	1:B:642:VAL:HG23	2.17	0.43
1:B:875:ASN:C	1:B:877:PRO:CD	2.84	0.43
2:C:103:LEU:HD11	2:C:115:LEU:HD13	1.99	0.43
2:C:392:ARG:NH1	2:C:392:ARG:HG2	2.33	0.43
3:D:11:VAL:HG21	3:D:21:VAL:HG11	2.01	0.43
3:D:340:GLY:O	3:D:341:THR:OG1	2.32	0.43
1:E:1032:ILE:HD12	1:E:1032:ILE:H	1.84	0.43
1:E:13:LEU:HD11	1:E:441:TYR:CE2	2.53	0.43
2:F:278:ARG:O	2:F:279:ASP:C	2.56	0.43
2:F:334:LEU:O	2:F:338:ILE:HG12	2.17	0.43
2:F:367:LEU:O	2:F:368:ASP:HB3	2.18	0.43
2:F:522:HIS:HE1	2:F:905:GLY:O	2.00	0.43
2:F:545:GLN:C	2:F:547:VAL:N	2.70	0.43
3:G:133:ASP:O	3:G:135:ALA:N	2.51	0.43
3:G:28:ALA:HB1	3:G:35:VAL:HG23	2.00	0.43
1:B:54:LEU:HD13	1:B:380:VAL:CG1	2.48	0.43
1:B:52:ARG:HH21	1:B:52:ARG:HG2	1.84	0.43
1:B:939:THR:O	1:B:941:THR:HG23	2.18	0.43
2:C:245:ARG:HD3	2:C:344:GLU:OE2	2.18	0.43
2:C:25:ARG:C	2:C:26:LEU:O	2.55	0.43
2:C:36:LEU:HD13	2:C:65:PRO:HA	2.00	0.43
2:C:435:LEU:HA	2:C:436:PRO:HD3	1.87	0.43
2:C:544:TRP:CE2	2:C:545:GLN:HG2	2.54	0.43
2:C:5:TYR:CD2	2:C:323:LEU:HD11	2.53	0.43
2:C:915:ILE:O	2:C:919:THR:HG22	2.18	0.43
3:D:122:PHE:CE1	3:D:166:ILE:HG12	2.54	0.43
3:D:527:LEU:HA	3:D:528:PRO:HD3	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:50:PHE:CE2	1:E:52:ARG:HD3	2.52	0.43
1:E:611:THR:HG22	2:F:858:ARG:NH2	2.33	0.43
1:E:835:GLN:HB3	1:E:835:GLN:HE21	1.70	0.43
1:E:860:LEU:O	1:E:860:LEU:HG	2.19	0.43
2:F:440:SER:O	2:F:441:ASP:CB	2.65	0.43
2:F:884:LEU:HG	2:F:917:TRP:CZ2	2.53	0.43
2:F:943:ILE:CG2	2:F:986:VAL:HG13	2.49	0.43
2:F:991:GLY:O	2:F:992:GLY:C	2.55	0.43
3:G:221:ARG:O	3:G:221:ARG:HG2	2.19	0.43
3:G:220:LEU:HA	3:G:223:LEU:CD2	2.48	0.43
3:G:556:GLN:HA	3:G:585:ILE:CD1	2.48	0.43
4:X:23:DC:C2'	4:X:24:DT:C6	3.01	0.43
1:B:1085:TRP:O	1:B:1086:LEU:HD23	2.19	0.43
1:B:1108:ASP:O	1:B:1112:GLN:OE1	2.36	0.43
1:B:1120:ARG:HB2	2:C:56:ILE:HD12	2.00	0.43
1:B:1127:ALA:O	1:B:1128:ASP:HB3	2.18	0.43
1:B:490:VAL:CG1	1:B:495:THR:HG22	2.48	0.43
1:B:584:ARG:NH1	1:B:584:ARG:HG2	2.33	0.43
1:B:761:ARG:HD2	4:X:45:DT:OP1	2.18	0.43
2:C:1048:THR:OG1	2:C:1070:LYS:HG3	2.19	0.43
2:C:1097:LEU:HA	2:C:1097:LEU:HD23	1.81	0.43
2:C:142:ARG:HH21	2:C:705:ASP:CG	2.20	0.43
2:C:175:TYR:CZ	2:C:179:LEU:HD11	2.53	0.43
2:C:273:GLU:OE2	2:C:273:GLU:HA	2.19	0.43
2:C:388:VAL:HG13	2:C:799:ARG:HH11	1.82	0.43
2:C:540:ALA:O	2:C:541:GLN:HB2	2.18	0.43
2:C:602:ASP:HB3	2:C:605:THR:OG1	2.19	0.43
2:C:77:LEU:HB3	2:C:78:PRO:HD2	2.00	0.43
2:C:70:TRP:CZ3	2:C:84:SER:HB2	2.53	0.43
3:D:212:LEU:O	3:D:216:LEU:HB2	2.17	0.43
3:D:370:LEU:HD23	3:D:577:LEU:HD23	2.00	0.43
1:E:947:ARG:HD2	1:E:1086:LEU:HD21	2.01	0.43
1:E:1112:GLN:HB3	1:E:1168:MET:SD	2.59	0.43
1:E:1170:GLU:O	1:E:1174:GLY:N	2.50	0.43
1:E:267:ASP:C	1:E:269:ILE:N	2.71	0.43
1:E:282:LEU:C	1:E:284:GLU:H	2.22	0.43
1:E:471:ARG:HD2	1:E:472:GLU:OE1	2.17	0.43
1:E:518:MET:HE2	1:E:816:GLY:HA3	2.00	0.43
1:E:732:ASP:HA	1:E:735:LEU:HD12	2.00	0.43
2:F:1106:VAL:O	2:F:1107:GLU:C	2.57	0.43
2:F:286:LEU:HA	2:F:291:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:311:ILE:HD13	2:F:311:ILE:O	2.18	0.43
3:G:317:ALA:C	3:G:319:ALA:N	2.72	0.43
3:G:405:ILE:HA	3:G:408:LEU:HD12	1.99	0.43
3:G:423:GLN:C	3:G:425:ARG:N	2.69	0.43
2:C:878:TYR:CG	4:X:9:5IU:H4'	2.53	0.43
1:B:283:PRO:HB3	1:B:314:ASP:CG	2.39	0.43
1:B:451:PRO:HG2	1:B:452:GLY:H	1.84	0.43
1:B:62:VAL:O	1:B:62:VAL:HG23	2.18	0.43
1:B:567:VAL:HB	1:B:738:ILE:HD12	2.00	0.43
2:C:106:GLU:HA	2:C:109:THR:OG1	2.19	0.43
2:C:574:TRP:HE3	2:C:578:LEU:CD1	2.32	0.43
2:C:695:ASP:O	2:C:696:LEU:C	2.56	0.43
2:C:701:PRO:HA	2:C:705:ASP:OD1	2.18	0.43
3:D:234:PRO:HB2	3:D:236:ASP:HB2	2.00	0.43
3:D:120:ALA:CB	3:D:603:LEU:HB3	2.49	0.43
1:E:1085:TRP:O	1:E:1086:LEU:HD23	2.19	0.43
1:E:234:GLN:C	1:E:236:TRP:N	2.72	0.43
1:E:269:ILE:HG22	1:E:270:SER:H	1.83	0.43
1:E:446:ASN:OD1	1:E:446:ASN:O	2.37	0.43
1:E:466:ASP:OD2	1:E:471:ARG:HA	2.19	0.43
2:F:333:ASN:H	2:F:336:HIS:HB2	1.83	0.43
2:F:695:ASP:O	2:F:696:LEU:C	2.57	0.43
2:F:367:LEU:CB	2:F:761:LEU:HD23	2.48	0.43
3:G:132:VAL:CG1	3:G:134:GLU:HG2	2.48	0.43
3:G:242:ARG:O	3:G:243:LEU:C	2.56	0.43
3:G:275:ASP:OD1	4:Y:2:5IU:C4	2.67	0.43
4:X:8:DC:H2"	4:X:9:5IU:O5'	2.19	0.43
1:B:961:ASP:CG	1:B:961:ASP:O	2.57	0.43
2:C:1046:LEU:CD2	2:C:1110:GLN:HG3	2.44	0.43
2:C:141:TYR:O	2:C:142:ARG:CG	2.67	0.43
2:C:475:ASP:O	2:C:477:PRO:HD3	2.18	0.43
2:C:536:ALA:O	2:C:537:MET:O	2.37	0.43
2:C:828:LEU:HB2	2:C:1028:ARG:HD2	2.01	0.43
3:D:565:LEU:C	3:D:565:LEU:HD23	2.39	0.43
1:E:1061:MET:HG3	2:F:48:MET:CE	2.49	0.43
1:E:1107:TYR:O	1:E:1110:GLN:N	2.52	0.43
1:E:504:MET:CE	1:E:518:MET:HG2	2.49	0.43
1:E:875:ASN:C	1:E:877:PRO:CD	2.85	0.43
1:E:89:ARG:C	1:E:91:THR:H	2.22	0.43
2:F:441:ASP:OD2	2:F:662:CYS:HB2	2.19	0.43
2:F:845:VAL:CG1	2:F:1093:LEU:HD11	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:70:TRP:CZ3	2:F:84:SER:HB2	2.54	0.43
2:F:878:TYR:CD1	4:Y:9:5IU:H4'	2.53	0.43
2:F:986:VAL:HG12	2:F:987:TYR:N	2.34	0.43
3:G:387:GLN:C	3:G:389:ASP:H	2.22	0.43
3:G:427:GLU:N	3:G:428:PRO:CD	2.81	0.43
3:G:427:GLU:N	3:G:428:PRO:HD2	2.34	0.43
4:X:36:DG:N9	4:X:37:DT:H72	2.34	0.43
1:B:1112:GLN:HB3	1:B:1168:MET:SD	2.59	0.43
1:B:150:GLN:HE21	1:B:150:GLN:CA	2.31	0.43
1:B:534:GLN:OE1	1:B:880:VAL:HG23	2.18	0.43
1:B:555:SER:HA	1:B:737:GLN:O	2.19	0.43
1:B:937:GLU:O	1:B:939:THR:N	2.46	0.43
2:C:228:GLN:HE21	2:C:319:SER:H	1.66	0.43
2:C:363:ASN:ND2	2:C:363:ASN:N	2.32	0.43
2:C:50:LEU:O	2:C:54:PHE:HB2	2.19	0.43
2:C:837:LEU:HD23	2:C:837:LEU:HA	1.89	0.43
2:C:966:ARG:NH1	2:C:983:GLU:OE1	2.44	0.43
3:D:213:THR:CG2	3:D:235:GLU:CA	2.92	0.43
3:D:387:GLN:C	3:D:389:ASP:H	2.21	0.43
3:D:423:GLN:C	3:D:425:ARG:N	2.70	0.43
3:D:526:ARG:HH22	3:D:533:THR:HG21	1.81	0.43
1:E:218:LEU:HD21	1:E:323:ILE:HG12	2.01	0.43
1:E:283:PRO:HB3	1:E:314:ASP:CG	2.39	0.43
1:E:345:ARG:HH12	1:E:346:ARG:HG2	1.83	0.43
1:E:89:ARG:C	1:E:91:THR:N	2.70	0.43
1:E:939:THR:O	1:E:941:THR:HG23	2.19	0.43
2:F:190:TYR:CE1	2:F:191:GLN:HG3	2.54	0.43
2:F:248:TRP:N	2:F:248:TRP:CD1	2.87	0.43
2:F:272:ARG:O	2:F:273:GLU:HB2	2.19	0.43
2:F:290:ASP:HB2	2:F:291:GLY:H	1.51	0.43
1:E:170:ARG:HA	2:F:517:PRO:HG2	2.00	0.43
2:F:388:VAL:HG13	2:F:799:ARG:HH11	1.84	0.43
2:F:882:GLN:HA	2:F:969:PRO:HG2	2.00	0.43
3:G:175:THR:CG2	3:G:176:GLY:N	2.80	0.43
3:G:213:THR:HG21	3:G:235:GLU:CA	2.48	0.43
3:G:356:GLN:HB2	3:G:356:GLN:HE21	1.62	0.43
3:G:561:VAL:CG1	3:G:589:ALA:HB2	2.48	0.43
4:Y:23:DC:C2'	4:Y:24:DT:C6	3.02	0.43
1:B:1025:LEU:HD11	1:B:1117:ALA:HA	2.00	0.43
1:B:1021:MET:HE2	1:B:1069:VAL:HG21	1.98	0.43
1:B:1125:ARG:HB3	2:C:28:ASP:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:ARG:O	1:B:12:ARG:HG3	2.18	0.43
1:B:591:LEU:HB3	2:C:1095:ARG:NH2	2.33	0.43
1:B:452:GLY:HA2	1:B:864:ASP:OD1	2.19	0.43
2:C:544:TRP:CD2	2:C:545:GLN:HG2	2.54	0.43
2:C:858:ARG:HG3	2:C:858:ARG:HH11	1.84	0.43
2:C:868:GLU:HB2	2:C:869:PRO:HD2	2.01	0.43
3:D:229:GLN:O	3:D:232:ARG:CG	2.67	0.43
1:E:434:ARG:HH11	1:E:434:ARG:CG	2.31	0.43
1:E:860:LEU:H	1:E:860:LEU:HD23	1.83	0.43
2:F:377:HIS:CD2	2:F:728:TYR:CE1	3.06	0.43
2:F:392:ARG:HG2	2:F:392:ARG:NH1	2.33	0.43
2:F:3:ARG:HG3	2:F:3:ARG:HH21	1.83	0.43
2:F:75:ARG:NH1	2:F:208:PRO:HD3	2.34	0.43
3:G:154:GLN:HA	3:G:355:LEU:HD22	2.00	0.43
3:G:379:LYS:HG3	3:G:379:LYS:H	1.60	0.43
3:G:582:ASP:C	3:G:584:ARG:N	2.70	0.43
3:G:98:THR:HG23	3:G:99:PRO:HD2	2.01	0.43
1:B:218:LEU:HD21	1:B:323:ILE:HG12	2.01	0.43
1:B:390:ASP:OD2	1:B:392:GLN:HB2	2.19	0.43
1:B:39:ARG:HG3	1:B:39:ARG:NH1	2.33	0.43
1:B:587:VAL:CG1	1:B:690:ILE:HG13	2.48	0.43
1:B:5:ALA:HB1	1:B:441:TYR:CA	2.48	0.43
1:B:912:ARG:HA	1:B:912:ARG:HD3	1.71	0.43
2:C:1012:ALA:H	2:C:1015:GLN:NE2	1.93	0.43
2:C:1015:GLN:O	2:C:1018:HIS:HB3	2.18	0.43
2:C:367:LEU:O	2:C:368:ASP:HB3	2.19	0.43
2:C:530:ARG:HG2	2:C:547:VAL:CG1	2.49	0.43
2:C:819:GLU:OE1	2:C:820:PHE:N	2.52	0.43
2:C:845:VAL:CG1	2:C:1093:LEU:HD11	2.48	0.43
3:D:317:ALA:C	3:D:319:ALA:N	2.73	0.43
3:D:53:LEU:HD11	3:D:58:LEU:CD1	2.49	0.43
1:E:1101:ALA:O	1:E:1104:ALA:HB3	2.19	0.43
1:E:12:ARG:CG	1:E:12:ARG:O	2.67	0.43
1:E:550:ARG:O	1:E:551:ALA:C	2.57	0.43
1:E:597:LEU:O	1:E:597:LEU:HD23	2.19	0.43
1:E:638:TRP:O	1:E:642:VAL:HG23	2.19	0.43
1:E:555:SER:HA	1:E:737:GLN:O	2.19	0.43
1:E:924:LEU:HD22	1:E:949:ALA:HB1	2.00	0.43
1:E:984:SER:C	1:E:986:TRP:H	2.22	0.43
2:F:72:MET:HE1	2:F:208:PRO:HD2	1.99	0.43
2:F:445:ARG:HD3	2:F:455:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:50:LEU:O	2:F:54:PHE:HB2	2.19	0.43
2:F:764:ASP:HB3	2:F:767:LEU:CD1	2.49	0.43
3:G:208:ALA:O	3:G:209:ALA:C	2.57	0.43
3:G:326:ALA:HB1	3:G:338:PRO:O	2.18	0.43
3:G:376:ARG:HB3	3:G:377:GLY:H	1.64	0.43
3:G:537:THR:OG1	3:G:540:LYS:HG3	2.18	0.43
3:G:597:ARG:CD	3:G:597:ARG:C	2.86	0.43
1:B:824:ARG:CB	4:X:16:DA:OP2	2.54	0.43
4:X:4:5IU:H6	4:X:4:5IU:H2'	1.72	0.43
4:Y:3:5IU:H2''	4:Y:4:5IU:C5'	2.32	0.43
1:B:1029:GLU:HA	1:B:1030:PRO:HD2	1.86	0.42
1:B:1127:ALA:O	1:B:1128:ASP:CB	2.67	0.42
1:B:12:ARG:O	1:B:12:ARG:CG	2.67	0.42
1:B:39:ARG:HD2	1:B:44:LEU:HB3	2.00	0.42
1:B:600:LEU:HD11	1:B:694:LEU:HD21	2.01	0.42
1:B:932:ALA:HB2	1:B:947:ARG:CG	2.49	0.42
1:B:947:ARG:N	1:B:947:ARG:HD3	2.27	0.42
2:C:120:ASP:O	2:C:121:LYS:HB2	2.19	0.42
2:C:240:PHE:CE2	2:C:242:ASN:ND2	2.87	0.42
2:C:272:ARG:O	2:C:273:GLU:CB	2.67	0.42
3:D:52:CYS:SG	3:D:106:ARG:CG	3.07	0.42
3:D:208:ALA:O	3:D:209:ALA:C	2.57	0.42
3:D:344:GLU:C	3:D:349:ARG:HD2	2.39	0.42
1:E:1051:PRO:CD	1:E:1052:PRO:HD2	2.41	0.42
1:E:1102:MET:HE3	1:E:1102:MET:CA	2.49	0.42
1:E:222:HIS:NE2	1:E:272:TRP:HH2	2.17	0.42
1:E:380:VAL:HG13	1:E:380:VAL:O	2.19	0.42
1:E:868:GLN:HB3	1:E:868:GLN:HE21	1.62	0.42
1:E:998:LEU:C	1:E:1000:ALA:H	2.22	0.42
2:F:998:LEU:HD22	2:F:1000:LEU:HD21	2.01	0.42
2:F:1038:LEU:HD22	2:F:1090:TYR:CE1	2.54	0.42
2:F:246:TYR:CD2	2:F:275:PRO:HD3	2.54	0.42
2:F:475:ASP:O	2:F:477:PRO:HD3	2.18	0.42
3:G:369:GLN:HB3	3:G:384:THR:HG21	2.01	0.42
4:X:2:5IU:H2''	4:X:3:5IU:C5'	2.49	0.42
1:B:1082:LYS:HD2	1:B:1140:TYR:CE1	2.54	0.42
1:B:1107:TYR:O	1:B:1111:TYR:HD1	2.02	0.42
1:B:1075:ARG:NH1	1:B:1132:GLU:O	2.53	0.42
1:B:154:GLU:HG2	1:B:155:ASP:H	1.84	0.42
1:B:637:ALA:HA	1:B:640:VAL:CG2	2.49	0.42
1:B:669:ASN:O	1:B:673:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:374:ILE:HA	2:C:727:LEU:O	2.19	0.42
1:B:893:LEU:HD11	2:C:432:ASP:HB2	2.01	0.42
2:C:634:LEU:O	2:C:635:SER:C	2.56	0.42
2:C:411:MET:HA	2:C:662:CYS:O	2.19	0.42
3:D:225:LEU:CD2	3:D:229:GLN:HA	2.49	0.42
3:D:244:LEU:HD22	3:D:255:HIS:CB	2.48	0.42
3:D:266:LEU:HD23	3:D:286:LEU:HD21	2.01	0.42
3:D:300:GLN:HA	3:D:568:THR:CG2	2.48	0.42
1:E:1135:PHE:CG	1:E:1136:GLY:N	2.87	0.42
1:E:221:ARG:NH1	1:E:221:ARG:HG2	2.33	0.42
1:E:352:ASP:O	1:E:356:SER:HB2	2.19	0.42
1:E:730:GLU:HA	1:E:730:GLU:OE1	2.19	0.42
1:E:831:THR:O	1:E:833:VAL:N	2.48	0.42
2:F:1022:GLN:O	2:F:1025:GLU:HB3	2.19	0.42
2:F:141:TYR:O	2:F:142:ARG:CG	2.67	0.42
2:F:240:PHE:HE2	2:F:242:ASN:ND2	2.17	0.42
2:F:266:ARG:HH21	2:F:272:ARG:HE	1.68	0.42
2:F:5:TYR:CE2	2:F:323:LEU:HD11	2.54	0.42
2:F:341:ASP:OD2	2:F:365:ARG:NH1	2.52	0.42
2:F:574:TRP:HE3	2:F:578:LEU:CD1	2.32	0.42
2:F:595:LEU:HD23	2:F:609:MET:HE3	2.00	0.42
2:F:807:LEU:N	2:F:808:PRO:HD2	2.34	0.42
3:G:557:ARG:HB3	3:G:558:THR:H	1.27	0.42
1:B:168:TRP:O	1:B:172:CYS:HB2	2.18	0.42
1:B:426:ASP:O	1:B:429:THR:CG2	2.63	0.42
1:B:658:MET:HB3	1:B:659:PRO:CD	2.39	0.42
1:B:807:THR:HG22	1:B:807:THR:O	2.19	0.42
1:B:835:GLN:HE21	1:B:835:GLN:HB3	1.72	0.42
1:B:899:ASP:HB3	1:B:1059:ARG:NH1	2.20	0.42
2:C:368:ASP:OD1	2:C:370:LEU:HB2	2.19	0.42
2:C:448:HIS:HA	2:C:449:PRO:HD3	1.89	0.42
2:C:625:GLY:C	2:C:627:GLN:H	2.22	0.42
2:C:699:GLN:H	2:C:699:GLN:HG2	1.63	0.42
2:C:767:LEU:H	2:C:767:LEU:HD23	1.83	0.42
3:D:455:ASN:HD21	3:D:532:THR:C	2.22	0.42
1:E:1169:ASP:O	1:E:1172:PHE:HB3	2.19	0.42
1:E:233:LYS:O	1:E:237:ARG:CG	2.68	0.42
1:E:426:ASP:O	1:E:429:THR:CG2	2.64	0.42
1:E:703:SER:O	1:E:706:ALA:HB3	2.19	0.42
2:F:25:ARG:C	2:F:26:LEU:O	2.55	0.42
3:G:102:LEU:HD12	3:G:106:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:233:ILE:N	3:G:233:ILE:CD1	2.83	0.42
1:B:345:ARG:HH12	1:B:346:ARG:HG2	1.84	0.42
1:B:531:GLN:O	1:B:535:ARG:HD3	2.19	0.42
1:B:711:LEU:HD22	1:B:715:ILE:HD11	2.01	0.42
1:B:735:LEU:O	1:B:736:VAL:C	2.55	0.42
2:C:160:GLU:O	2:C:161:ALA:HB3	2.19	0.42
2:C:190:TYR:C	2:C:190:TYR:CD1	2.92	0.42
2:C:333:ASN:HB2	2:C:336:HIS:H	1.84	0.42
2:C:595:LEU:HD23	2:C:609:MET:HE3	2.01	0.42
2:C:775:ARG:HB3	2:C:775:ARG:NH1	2.34	0.42
3:D:130:ILE:O	3:D:132:VAL:HG23	2.20	0.42
3:D:254:ARG:O	3:D:255:HIS:CB	2.66	0.42
3:D:240:LEU:CD2	3:D:274:ILE:HD12	2.49	0.42
3:D:300:GLN:OE1	3:D:567:TYR:HE2	2.01	0.42
1:E:386:PHE:C	1:E:388:ASP:H	2.21	0.42
1:E:504:MET:SD	1:E:517:THR:HG21	2.59	0.42
1:E:97:TYR:O	1:E:100:LEU:HB2	2.19	0.42
2:F:1036:LEU:O	2:F:1037:VAL:CB	2.62	0.42
2:F:1038:LEU:HA	2:F:1039:PRO:HD2	1.81	0.42
2:F:253:ASP:O	2:F:255:ALA:N	2.52	0.42
2:F:1:MET:CG	2:F:3:ARG:HE	2.28	0.42
2:F:449:PRO:HB2	2:F:450:VAL:H	1.70	0.42
3:G:229:GLN:O	3:G:230:LYS:HD2	2.19	0.42
3:G:229:GLN:O	3:G:232:ARG:CG	2.67	0.42
4:X:10:DA:H4'	4:X:11:DA:OP1	2.19	0.42
1:B:1002:LEU:HD13	1:B:1008:SER:HA	2.01	0.42
1:B:380:VAL:HG13	1:B:380:VAL:O	2.19	0.42
1:B:606:PRO:HB2	1:B:642:VAL:HG13	2.01	0.42
1:B:924:LEU:HD22	1:B:949:ALA:HB1	2.00	0.42
2:C:290:ASP:HB2	2:C:291:GLY:H	1.51	0.42
2:C:521:GLN:HG2	2:C:526:PHE:CE1	2.54	0.42
2:C:664:LEU:HD22	2:C:685:TYR:CZ	2.52	0.42
2:C:699:GLN:HE21	2:C:699:GLN:HB3	1.59	0.42
3:D:301:LEU:N	3:D:568:THR:CG2	2.80	0.42
1:E:1025:LEU:HD11	1:E:1117:ALA:HA	2.01	0.42
1:E:455:ASN:N	1:E:455:ASN:HD22	2.16	0.42
1:E:52:ARG:CG	1:E:52:ARG:NH2	2.80	0.42
1:E:567:VAL:HB	1:E:738:ILE:HD12	2.01	0.42
1:E:785:GLU:N	1:E:785:GLU:OE1	2.47	0.42
1:E:827:LYS:HE2	1:E:831:THR:HG22	2.00	0.42
1:E:912:ARG:HD3	1:E:912:ARG:HA	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:940:LEU:HD22	1:E:986:TRP:CH2	2.54	0.42
2:F:767:LEU:CD2	2:F:767:LEU:N	2.82	0.42
2:F:775:ARG:HH11	2:F:775:ARG:HB3	1.83	0.42
3:G:228:GLU:O	3:G:230:LYS:N	2.50	0.42
3:G:253:LEU:HD13	3:G:255:HIS:NE2	2.34	0.42
3:G:278:MET:HE3	4:Y:2:5IU:I5	2.89	0.42
1:B:1049:GLY:O	1:B:1051:PRO:CD	2.68	0.42
1:B:703:SER:O	1:B:706:ALA:HB3	2.19	0.42
2:C:1050:TYR:OH	2:C:1118:ARG:HA	2.19	0.42
2:C:27:ASP:HB3	2:C:29:PRO:HD2	2.01	0.42
2:C:552:GLU:HA	2:C:552:GLU:OE1	2.20	0.42
2:C:62:PHE:N	2:C:63:PRO:CD	2.82	0.42
3:D:307:GLY:N	3:D:597:ARG:HH21	2.17	0.42
1:E:468:PHE:CE1	1:E:475:PHE:HB2	2.54	0.42
1:E:763:GLN:HE21	1:E:764:GLU:H	1.66	0.42
2:F:394:LEU:HA	2:F:394:LEU:HD12	1.89	0.42
2:F:582:ARG:HD3	2:F:587:TRP:CE2	2.55	0.42
2:F:701:PRO:HA	2:F:705:ASP:OD1	2.19	0.42
2:F:943:ILE:O	2:F:953:THR:HA	2.19	0.42
2:F:936:GLN:O	2:F:960:GLN:HG2	2.18	0.42
3:G:287:PRO:C	3:G:289:HIS:N	2.73	0.42
3:G:370:LEU:HD23	3:G:577:LEU:HD23	2.00	0.42
4:Y:34:DC:H1'	4:Y:35:DA:H5''	2.02	0.42
1:B:316:LEU:HA	1:B:316:LEU:HD23	1.67	0.42
1:B:414:ASP:HA	1:B:415:PRO:HD2	1.96	0.42
1:B:63:THR:HG22	1:B:384:ASP:OD1	2.19	0.42
1:B:911:GLN:HA	1:B:911:GLN:NE2	2.35	0.42
2:C:1019:TYR:C	2:C:1021:SER:N	2.70	0.42
2:C:78:PRO:CD	2:C:192:ARG:NH1	2.77	0.42
2:C:333:ASN:H	2:C:336:HIS:HB2	1.84	0.42
2:C:43:ALA:O	2:C:47:GLN:HG3	2.19	0.42
2:C:441:ASP:O	2:C:649:ARG:HD3	2.19	0.42
2:C:689:LEU:CD2	2:C:708:ARG:HD2	2.49	0.42
3:D:198:ARG:HB2	3:D:263:LEU:HA	2.01	0.42
3:D:79:GLN:C	3:D:81:TRP:N	2.72	0.42
1:E:414:ASP:OD1	1:E:416:LYS:N	2.48	0.42
1:E:628:ILE:O	1:E:632:ASN:ND2	2.52	0.42
1:E:707:LEU:O	1:E:710:TRP:HB3	2.19	0.42
1:E:843:GLN:OE1	1:E:853:LEU:HG	2.20	0.42
2:F:173:VAL:O	2:F:176:THR:HG23	2.19	0.42
2:F:81:PRO:HG3	2:F:182:PRO:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:199:SER:C	2:F:201:THR:N	2.73	0.42
2:F:396:MET:HE2	2:F:674:VAL:HG21	2.01	0.42
2:F:901:PHE:HD1	2:F:917:TRP:CZ3	2.36	0.42
3:G:344:GLU:C	3:G:349:ARG:HD2	2.40	0.42
3:G:459:GLU:O	3:G:463:GLN:HG3	2.20	0.42
3:G:555:SER:O	3:G:585:ILE:HG13	2.18	0.42
1:B:1061:MET:HG3	2:C:48:MET:HE2	2.00	0.42
1:B:134:GLN:HB3	1:B:354:MET:SD	2.59	0.42
1:B:355:LEU:HD11	1:B:392:GLN:HE21	1.83	0.42
1:B:431:MET:O	1:B:434:ARG:HB3	2.19	0.42
1:B:610:ASN:O	1:B:612:LEU:N	2.53	0.42
1:B:672:GLU:HG3	1:B:672:GLU:H	1.61	0.42
1:B:89:ARG:C	1:B:91:THR:H	2.22	0.42
2:C:401:PRO:O	2:C:403:LEU:N	2.52	0.42
1:B:699:THR:CG2	2:C:423:GLN:HE22	2.33	0.42
2:C:943:ILE:CD1	2:C:943:ILE:N	2.82	0.42
3:D:177:LYS:HA	3:D:180:THR:HG22	2.01	0.42
1:E:212:PRO:O	1:E:213:PRO:C	2.57	0.42
1:E:237:ARG:HE	1:E:266:ILE:HG21	1.84	0.42
1:E:637:ALA:HA	1:E:640:VAL:CG2	2.49	0.42
2:F:405:PRO:CG	2:F:658:PRO:HB2	2.49	0.42
2:F:896:ARG:HH11	2:F:896:ARG:HG2	1.85	0.42
4:Y:4:5IU:H6	4:Y:4:5IU:H2'	1.66	0.42
1:B:443:LEU:N	1:B:443:LEU:HD23	2.33	0.42
1:B:843:GLN:OE1	1:B:853:LEU:HG	2.19	0.42
1:B:861:CYS:SG	1:B:866:ALA:CA	3.04	0.42
2:C:1022:GLN:O	2:C:1025:GLU:HB3	2.19	0.42
2:C:1068:ARG:HG2	2:C:1068:ARG:HH21	1.85	0.42
2:C:300:LEU:O	2:C:300:LEU:HG	2.20	0.42
2:C:398:GLU:O	2:C:399:GLU:C	2.58	0.42
2:C:37:VAL:HG21	2:C:42:MET:CB	2.48	0.42
2:C:396:MET:HE3	2:C:726:LYS:HG3	2.01	0.42
2:C:367:LEU:CB	2:C:761:LEU:HD23	2.49	0.42
3:D:228:GLU:O	3:D:230:LYS:N	2.49	0.42
3:D:538:VAL:HG21	3:D:565:LEU:HD21	2.01	0.42
1:E:1039:LEU:H	1:E:1039:LEU:CD2	2.28	0.42
1:E:1127:ALA:O	1:E:1128:ASP:HB3	2.20	0.42
1:E:423:ARG:HD3	1:E:423:ARG:HA	1.83	0.42
1:E:907:SER:C	1:E:909:LEU:H	2.22	0.42
2:F:997:ARG:CG	2:F:1007:ARG:HG3	2.48	0.42
2:F:117:ASP:OD2	2:F:117:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:544:TRP:CE2	2:F:545:GLN:HG2	2.55	0.42
2:F:602:ASP:HB3	2:F:605:THR:OG1	2.20	0.42
3:G:244:LEU:HD13	3:G:255:HIS:CD2	2.54	0.42
3:G:255:HIS:HA	3:G:259:ASN:HB3	2.00	0.42
3:G:4:GLN:HE21	3:G:4:GLN:HB2	1.61	0.42
3:G:527:LEU:HA	3:G:528:PRO:HD3	1.78	0.42
3:G:442:CYS:O	3:G:537:THR:HA	2.20	0.42
3:G:549:ALA:HB3	3:G:573:ALA:HB2	2.02	0.42
4:X:5:5IU:H6	4:X:5:5IU:H2'	1.80	0.42
4:Y:39:DC:C2'	4:Y:40:DT:OP2	2.64	0.42
1:B:152:LEU:HD11	1:B:351:PHE:CE1	2.55	0.42
1:B:248:GLU:HB3	1:B:249:SER:H	1.69	0.42
1:B:3:ASP:OD2	1:B:3:ASP:N	2.53	0.42
1:B:398:ARG:NH2	1:B:402:HIS:CE1	2.87	0.42
1:B:471:ARG:HD2	1:B:472:GLU:OE1	2.19	0.42
1:B:468:PHE:CE1	1:B:475:PHE:HB2	2.55	0.42
1:B:597:LEU:HD12	1:B:715:ILE:CD1	2.35	0.42
1:B:685:THR:HG22	2:C:787:MET:HE2	2.01	0.42
1:B:710:TRP:O	1:B:714:HIS:HD2	2.02	0.42
1:B:831:THR:O	1:B:833:VAL:N	2.50	0.42
1:B:142:PHE:CB	2:C:110:LEU:HD22	2.44	0.42
2:C:392:ARG:HA	2:C:392:ARG:HD3	1.84	0.42
3:D:169:ILE:HB	3:D:295:LEU:CD2	2.43	0.42
1:E:156:GLU:HA	1:E:159:LEU:HB3	2.01	0.42
1:E:491:PHE:HE1	1:E:532:ALA:HB3	1.85	0.42
1:E:955:LEU:N	1:E:955:LEU:HD23	2.35	0.42
2:F:474:LEU:HD21	2:F:485:ILE:HD12	2.01	0.42
2:F:775:ARG:HB3	2:F:775:ARG:NH1	2.35	0.42
3:G:234:PRO:HB2	3:G:236:ASP:HB2	2.00	0.42
3:G:198:ARG:HB2	3:G:263:LEU:HA	2.01	0.42
3:G:269:ASP:O	3:G:270:GLU:HB2	2.20	0.42
3:G:330:SER:HB2	3:G:336:HIS:HA	2.01	0.42
4:X:37:DT:C2'	4:X:38:DG:C5'	2.96	0.42
1:B:282:LEU:HA	1:B:285:SER:OG	2.21	0.41
1:B:518:MET:CE	1:B:816:GLY:HA3	2.50	0.41
1:B:779:ASP:O	1:B:781:ASN:N	2.53	0.41
2:C:405:PRO:HG2	2:C:658:PRO:HB2	2.01	0.41
2:C:407:ASP:HB3	2:C:673:LYS:HB2	2.02	0.41
2:C:829:PRO:O	2:C:830:GLU:HG3	2.20	0.41
2:C:843:HIS:HE1	2:C:1087:ASP:OD2	2.03	0.41
2:C:936:GLN:O	2:C:960:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:123:PHE:O	3:D:124:ASN:OD1	2.38	0.41
3:D:175:THR:CG2	3:D:176:GLY:N	2.83	0.41
3:D:322:THR:HG23	3:D:350:ASP:OD1	2.19	0.41
3:D:326:ALA:HB1	3:D:338:PRO:O	2.19	0.41
1:E:150:GLN:CA	1:E:150:GLN:HE21	2.30	0.41
1:E:222:HIS:CD2	1:E:272:TRP:CH2	3.06	0.41
1:E:416:LYS:HD2	1:E:468:PHE:CE1	2.55	0.41
2:F:102:LEU:HD13	2:F:108:PHE:CZ	2.55	0.41
2:F:111:LEU:HD13	2:F:127:LEU:HD21	2.01	0.41
2:F:142:ARG:N	2:F:143:PRO:CD	2.83	0.41
2:F:77:LEU:CD1	2:F:189:LEU:HG	2.50	0.41
2:F:72:MET:HE3	2:F:230:LEU:HD11	2.02	0.41
2:F:333:ASN:HD22	2:F:336:HIS:CD2	2.37	0.41
2:F:378:VAL:HG22	2:F:731:TYR:CZ	2.54	0.41
2:F:479:LEU:HA	2:F:598:PHE:O	2.20	0.41
2:F:670:ILE:HG23	2:F:671:PRO:HD2	2.02	0.41
3:G:247:GLN:HE21	3:G:247:GLN:HB2	1.60	0.41
3:G:302:ALA:HA	3:G:305:GLU:HG2	2.00	0.41
3:G:170:SER:O	3:G:354:LEU:HA	2.20	0.41
3:G:526:ARG:HH12	3:G:536:MET:HE3	1.85	0.41
3:G:27:VAL:HG12	3:G:90:ALA:HB1	2.02	0.41
4:Y:16:DA:H2"	4:Y:17:DG:C8	2.55	0.41
2:F:839:ARG:CB	4:Y:7:5IU:I5	3.38	0.41
1:B:1036:LEU:HA	1:B:1039:LEU:HD21	2.03	0.41
1:B:1094:THR:O	1:B:1096:GLN:N	2.53	0.41
1:B:1124:HIS:HE1	2:C:54:PHE:CD1	2.38	0.41
1:B:194:LEU:C	1:B:196:ASP:N	2.74	0.41
1:B:390:ASP:OD1	1:B:393:GLN:HG3	2.20	0.41
1:B:749:TYR:HB2	1:B:752:VAL:HG12	2.03	0.41
1:B:920:LEU:HD23	2:C:650:ILE:CG1	2.50	0.41
1:B:998:LEU:C	1:B:1000:ALA:H	2.23	0.41
2:C:1063:THR:C	2:C:1065:GLN:H	2.24	0.41
2:C:282:ASN:O	2:C:283:ALA:C	2.58	0.41
2:C:391:ASP:OD2	2:C:801:SER:HA	2.19	0.41
2:C:536:ALA:O	3:D:111:ARG:NE	2.53	0.41
2:C:39:SER:OG	2:C:668:ARG:HB2	2.19	0.41
2:C:716:PHE:CG	2:C:747:LEU:HD13	2.55	0.41
2:C:760:TYR:CE1	2:C:765:GLU:HG3	2.54	0.41
2:C:902:ARG:HB2	2:C:907:LEU:HD12	2.02	0.41
3:D:570:VAL:HG13	3:D:577:LEU:CD2	2.50	0.41
1:E:1130:ASP:N	1:E:1134:HIS:HD2	2.13	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:211:PRO:HA	1:E:212:PRO:HD3	1.95	0.41
1:E:222:HIS:CG	1:E:272:TRP:HH2	2.38	0.41
1:E:823:ARG:NE	1:E:825:GLY:HA3	2.35	0.41
2:F:240:PHE:CE2	2:F:242:ASN:ND2	2.88	0.41
2:F:398:GLU:O	2:F:399:GLU:C	2.58	0.41
2:F:525:ARG:HG2	2:F:525:ARG:NH1	2.35	0.41
2:F:625:GLY:C	2:F:627:GLN:H	2.23	0.41
2:F:411:MET:HA	2:F:662:CYS:O	2.20	0.41
3:G:254:ARG:O	3:G:260:PRO:CG	2.68	0.41
3:G:345:ALA:HB3	3:G:349:ARG:CG	2.41	0.41
3:G:405:ILE:O	3:G:409:GLU:HG3	2.20	0.41
3:G:301:LEU:N	3:G:568:THR:CG2	2.76	0.41
3:G:600:LEU:HD22	3:G:604:PHE:CE1	2.55	0.41
1:B:1102:MET:CA	1:B:1102:MET:HE3	2.49	0.41
1:B:1129:TYR:C	1:B:1129:TYR:CD1	2.93	0.41
1:B:1137:GLY:O	1:B:1158:THR:O	2.38	0.41
1:B:386:PHE:CE1	1:B:389:THR:HG21	2.55	0.41
1:B:527:ARG:HG2	1:B:527:ARG:NH1	2.34	0.41
1:B:557:LEU:HB2	1:B:754:LEU:HD12	2.01	0.41
2:C:997:ARG:CG	2:C:1007:ARG:HG3	2.49	0.41
2:C:234:ILE:HG22	2:C:236:ILE:HG13	2.02	0.41
2:C:287:PHE:O	2:C:288:ASN:C	2.58	0.41
2:C:479:LEU:HA	2:C:598:PHE:O	2.19	0.41
2:C:819:GLU:OE2	2:C:821:VAL:HG13	2.20	0.41
2:C:845:VAL:HG13	2:C:1093:LEU:HD11	2.01	0.41
2:C:87:ASN:HD22	2:C:89:GLN:N	2.18	0.41
3:D:170:SER:O	3:D:354:LEU:HA	2.19	0.41
3:D:35:VAL:CG2	3:D:36:THR:N	2.83	0.41
3:D:388:GLN:O	3:D:389:ASP:O	2.38	0.41
3:D:73:SER:O	3:D:75:ILE:N	2.53	0.41
1:E:416:LYS:O	1:E:800:ARG:HG2	2.20	0.41
1:E:763:GLN:NE2	1:E:764:GLU:H	2.18	0.41
1:E:827:LYS:NZ	1:E:829:GLY:HA2	2.36	0.41
1:E:924:LEU:CD1	2:F:607:ALA:HA	2.51	0.41
2:F:106:GLU:HA	2:F:109:THR:OG1	2.20	0.41
2:F:760:TYR:CE1	2:F:765:GLU:HG3	2.56	0.41
3:G:274:ILE:CG2	3:G:278:MET:HG2	2.46	0.41
3:G:436:ASN:CG	3:G:436:ASN:O	2.58	0.41
1:B:446:ASN:C	1:B:447:TRP:O	2.58	0.41
1:B:652:TRP:HE1	1:B:657:VAL:HG22	1.82	0.41
1:B:711:LEU:HD22	1:B:715:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:730:GLU:OE1	1:B:730:GLU:HA	2.21	0.41
1:B:579:VAL:HG11	1:B:732:ASP:HB3	2.00	0.41
1:B:740:THR:O	1:B:741:ILE:C	2.59	0.41
1:B:771:ARG:HH21	1:B:793:GLU:CG	2.32	0.41
1:B:823:ARG:NE	1:B:825:GLY:HA3	2.35	0.41
2:C:1037:VAL:HA	2:C:1109:SER:CB	2.40	0.41
2:C:1118:ARG:CG	2:C:1118:ARG:NH2	2.76	0.41
2:C:13:LEU:O	2:C:239:LEU:HD23	2.20	0.41
2:C:708:ARG:O	2:C:709:ARG:C	2.58	0.41
3:D:539:HIS:ND1	3:D:539:HIS:C	2.74	0.41
1:E:1093:TYR:CZ	1:E:1144:ARG:HB2	2.56	0.41
1:E:1155:ILE:HG13	1:E:1156:TYR:N	2.35	0.41
1:E:390:ASP:OD2	1:E:392:GLN:HB2	2.20	0.41
1:E:17:GLY:HA2	1:E:408:ALA:HA	2.02	0.41
1:E:527:ARG:NH1	1:E:527:ARG:HG2	2.35	0.41
1:E:57:GLU:HG3	1:E:57:GLU:H	1.35	0.41
1:E:725:GLN:HE21	1:E:725:GLN:HB3	1.62	0.41
1:E:920:LEU:CD1	2:F:608:ALA:HB2	2.51	0.41
2:F:287:PHE:O	2:F:288:ASN:C	2.59	0.41
2:F:552:GLU:HA	2:F:552:GLU:OE1	2.20	0.41
2:F:557:ILE:C	2:F:559:GLU:N	2.73	0.41
2:F:336:HIS:HE1	2:F:724:GLN:O	2.03	0.41
2:F:760:TYR:HE1	2:F:765:GLU:HG3	1.84	0.41
3:G:244:LEU:CD2	3:G:255:HIS:CB	2.91	0.41
3:G:264:ASP:OD1	3:G:289:HIS:NE2	2.51	0.41
1:B:1027:ILE:HA	1:B:1172:PHE:HD1	1.85	0.41
1:B:1040:ILE:CD1	1:B:1168:MET:HE1	2.50	0.41
1:B:228:ARG:HD2	1:B:316:LEU:HD21	2.02	0.41
1:B:514:TYR:O	1:B:515:GLN:HG2	2.19	0.41
1:B:721:ASN:N	1:B:721:ASN:HD22	2.17	0.41
2:C:404:THR:HB	2:C:405:PRO:HD2	2.02	0.41
3:D:115:ASN:HB3	3:D:276:LEU:CD2	2.35	0.41
3:D:220:LEU:HD11	3:D:233:ILE:HD11	2.02	0.41
3:D:287:PRO:C	3:D:289:HIS:N	2.71	0.41
3:D:363:SER:HB3	3:D:365:SER:H	1.86	0.41
3:D:410:GLU:HG2	3:D:410:GLU:H	1.69	0.41
3:D:27:VAL:HG12	3:D:90:ALA:HB1	2.02	0.41
1:E:316:LEU:HD23	1:E:316:LEU:HA	1.69	0.41
1:E:658:MET:HB3	1:E:659:PRO:CD	2.43	0.41
1:E:779:ASP:C	1:E:781:ASN:N	2.73	0.41
1:E:761:ARG:CG	1:E:822:ARG:HH22	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:8:LEU:HD13	1:E:10:PRO:CD	2.47	0.41
1:E:911:GLN:NE2	1:E:911:GLN:HA	2.34	0.41
2:F:708:ARG:O	2:F:709:ARG:C	2.59	0.41
2:F:858:ARG:HH11	2:F:858:ARG:HG3	1.84	0.41
2:F:966:ARG:NH1	2:F:983:GLU:OE1	2.45	0.41
4:Y:34:DC:H1'	4:Y:35:DA:H5'	2.02	0.41
1:B:121:MET:C	1:B:123:GLU:N	2.74	0.41
1:B:377:ARG:HG3	1:B:377:ARG:NH1	2.35	0.41
1:B:39:ARG:HD2	1:B:44:LEU:CB	2.50	0.41
1:B:950:SER:N	1:B:951:PRO:HD2	2.36	0.41
2:C:998:LEU:CD2	2:C:1000:LEU:HD21	2.51	0.41
2:C:896:ARG:HG2	2:C:896:ARG:HH11	1.86	0.41
3:D:229:GLN:O	3:D:230:LYS:HD2	2.19	0.41
1:E:1049:GLY:O	1:E:1051:PRO:CD	2.69	0.41
1:E:909:LEU:HD21	1:E:1106:ARG:CB	2.51	0.41
1:E:1118:LEU:HD22	1:E:1122:LEU:HG	2.02	0.41
1:E:1129:TYR:CD1	1:E:1129:TYR:C	2.93	0.41
1:E:721:ASN:N	1:E:721:ASN:HD22	2.19	0.41
1:E:895:ARG:HG2	1:E:896:LEU:N	2.35	0.41
2:F:272:ARG:O	2:F:273:GLU:CB	2.68	0.41
2:F:285:GLN:O	2:F:286:LEU:HB2	2.21	0.41
2:F:405:PRO:HG2	2:F:658:PRO:CG	2.51	0.41
2:F:407:ASP:HB3	2:F:673:LYS:HB2	2.02	0.41
1:E:1124:HIS:CE1	2:F:54:PHE:CD1	3.09	0.41
2:F:795:GLN:O	2:F:800:GLN:HG2	2.20	0.41
2:F:856:ASN:O	2:F:858:ARG:HG3	2.21	0.41
3:G:137:LEU:O	3:G:141:LEU:HG	2.20	0.41
3:G:455:ASN:O	3:G:459:GLU:HG3	2.20	0.41
3:G:463:GLN:C	3:G:465:LYS:N	2.74	0.41
3:G:79:GLN:C	3:G:81:TRP:N	2.73	0.41
1:B:1040:ILE:HD12	1:B:1112:GLN:NE2	2.34	0.41
1:B:50:PHE:CE2	1:B:52:ARG:HD3	2.55	0.41
2:C:293:GLN:HG3	2:C:293:GLN:O	2.20	0.41
2:C:532:LEU:O	2:C:535:TYR:HB3	2.20	0.41
2:C:653:ARG:HH11	2:C:653:ARG:HG2	1.86	0.41
1:B:728:ARG:HE	2:C:739:ASN:HB2	1.86	0.41
3:D:370:LEU:HD22	3:D:394:GLU:OE2	2.21	0.41
3:D:556:GLN:O	3:D:557:ARG:HB2	2.20	0.41
1:E:1148:LYS:H	1:E:1148:LYS:CD	2.32	0.41
1:E:263:ALA:O	1:E:266:ILE:HG12	2.21	0.41
1:E:432:LYS:HB2	1:E:774:PHE:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:728:ARG:HG3	1:E:728:ARG:H	1.56	0.41
1:E:784:PRO:O	1:E:788:ASP:OD1	2.37	0.41
1:E:771:ARG:HH21	1:E:793:GLU:CG	2.33	0.41
1:E:469:MET:SD	1:E:795:LEU:HD11	2.60	0.41
1:E:896:LEU:HD12	1:E:898:GLY:N	2.36	0.41
1:E:924:LEU:O	1:E:926:VAL:N	2.49	0.41
1:E:932:ALA:CB	1:E:947:ARG:NE	2.84	0.41
1:E:961:ASP:O	1:E:961:ASP:CG	2.58	0.41
1:E:617:ALA:O	2:F:1092:ARG:HD2	2.21	0.41
2:F:415:ILE:CB	2:F:663:THR:HG23	2.44	0.41
2:F:699:GLN:HG2	2:F:699:GLN:H	1.64	0.41
3:G:255:HIS:CE1	3:G:281:ARG:HB3	2.55	0.41
3:G:538:VAL:HG21	3:G:565:LEU:CD2	2.51	0.41
3:G:31:GLU:OE2	3:G:88:SER:HB2	2.21	0.41
1:B:1063:LYS:HE2	1:B:1063:LYS:HB3	1.89	0.41
1:B:1082:LYS:HE2	1:B:1107:TYR:CE1	2.56	0.41
1:B:199:ARG:H	1:B:199:ARG:HG3	1.73	0.41
1:B:262:GLN:CA	1:B:265:TRP:HB3	2.50	0.41
1:B:346:ARG:NE	1:B:348:GLU:OE1	2.52	0.41
1:B:652:TRP:CE2	1:B:657:VAL:HG22	2.56	0.41
2:C:129:SER:C	2:C:131:ALA:N	2.74	0.41
2:C:5:TYR:CE2	2:C:323:LEU:HD11	2.55	0.41
2:C:403:LEU:HD22	2:C:404:THR:O	2.20	0.41
2:C:425:VAL:C	2:C:427:GLY:H	2.24	0.41
2:C:670:ILE:HG23	2:C:671:PRO:HD2	2.02	0.41
3:D:115:ASN:HD22	3:D:115:ASN:HA	1.66	0.41
3:D:133:ASP:OD2	3:D:136:LEU:HB3	2.21	0.41
3:D:17:ARG:NH1	3:D:20:ASP:OD1	2.53	0.41
3:D:248:PRO:HD3	4:X:4:5IU:O2	2.21	0.41
3:D:165:ARG:HH21	3:D:288:ASP:HA	1.82	0.41
3:D:300:GLN:O	3:D:302:ALA:N	2.54	0.41
3:D:549:ALA:HB3	3:D:573:ALA:HB2	2.03	0.41
3:D:570:VAL:HG22	3:D:577:LEU:HD21	2.02	0.41
2:F:221:PRO:O	2:F:225:GLN:HG3	2.21	0.41
2:F:321:GLN:O	2:F:323:LEU:CD2	2.63	0.41
2:F:405:PRO:HG2	2:F:658:PRO:HG2	2.02	0.41
3:G:412:LEU:CD1	3:G:461:PHE:HD2	2.34	0.41
3:G:526:ARG:C	3:G:526:ARG:HE	2.24	0.41
3:G:533:THR:OG1	3:G:534:TRP:N	2.53	0.41
3:G:533:THR:C	3:G:535:ALA:N	2.73	0.41
3:G:73:SER:O	3:G:75:ILE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1067:ASP:HB2	1:B:1080:ASP:HA	2.02	0.41
1:B:466:ASP:OD2	1:B:471:ARG:HA	2.21	0.41
1:B:827:LYS:HE2	1:B:831:THR:HG22	2.02	0.41
1:B:849:ASP:HB3	1:B:852:GLY:H	1.85	0.41
2:C:105:ARG:O	2:C:106:GLU:CB	2.49	0.41
2:C:1068:ARG:HG2	2:C:1068:ARG:NH2	2.34	0.41
2:C:266:ARG:HH21	2:C:272:ARG:HE	1.68	0.41
2:C:396:MET:HE2	2:C:674:VAL:HG21	2.03	0.41
2:C:59:ASN:N	2:C:60:ILE:HD12	2.36	0.41
2:C:749:GLN:O	2:C:752:ILE:HD12	2.20	0.41
2:C:841:TRP:O	2:C:842:ALA:HB3	2.20	0.41
3:D:330:SER:HB2	3:D:336:HIS:HA	2.02	0.41
3:D:436:ASN:CG	3:D:436:ASN:O	2.58	0.41
1:E:1067:ASP:HB2	1:E:1080:ASP:HA	2.02	0.41
1:E:1107:TYR:O	1:E:1111:TYR:HD1	2.03	0.41
1:E:1172:PHE:CE2	1:E:1173:ALA:HB2	2.55	0.41
1:E:460:LEU:O	1:E:463:GLN:HG2	2.20	0.41
1:E:672:GLU:H	1:E:672:GLU:HG3	1.64	0.41
1:E:945:PHE:HA	1:E:946:PRO:HD2	1.84	0.41
2:F:1008:PHE:HA	2:F:1009:PRO:HD3	1.70	0.41
2:F:1071:PHE:HD2	2:F:1072:LEU:HD23	1.86	0.41
2:F:175:TYR:CE2	2:F:179:LEU:HD11	2.56	0.41
2:F:282:ASN:O	2:F:283:ALA:C	2.59	0.41
2:F:372:SER:OG	2:F:726:LYS:HE2	2.20	0.41
3:G:300:GLN:OE1	3:G:567:TYR:HE2	2.04	0.41
1:B:194:LEU:C	1:B:196:ASP:H	2.23	0.41
1:B:234:GLN:C	1:B:236:TRP:N	2.73	0.41
1:B:222:HIS:NE2	1:B:272:TRP:HH2	2.19	0.41
1:B:514:TYR:CE2	1:B:518:MET:HG3	2.56	0.41
1:B:771:ARG:NH1	1:B:771:ARG:CG	2.84	0.41
1:B:895:ARG:HG2	1:B:896:LEU:N	2.35	0.41
2:C:1106:VAL:O	2:C:1107:GLU:C	2.59	0.41
2:C:139:LEU:HD23	2:C:146:LEU:HD12	2.03	0.41
2:C:191:GLN:HB2	2:C:191:GLN:HE21	1.52	0.41
2:C:374:ILE:HG12	2:C:727:LEU:HB3	2.01	0.41
2:C:709:ARG:NH2	2:C:709:ARG:CG	2.82	0.41
2:C:884:LEU:HG	2:C:917:TRP:CZ2	2.56	0.41
3:D:101:ILE:HD11	3:D:110:ASN:OD1	2.21	0.41
3:D:255:HIS:HD1	3:D:256:HIS:N	2.18	0.41
3:D:282:LEU:HD23	3:D:286:LEU:HG	2.02	0.41
1:E:226:VAL:HG13	1:E:269:ILE:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:39:ARG:HD2	1:E:44:LEU:CB	2.51	0.41
2:F:104:GLU:CG	2:F:104:GLU:O	2.58	0.41
2:F:1081:VAL:O	2:F:1082:ARG:HG3	2.21	0.41
2:F:24:GLU:O	2:F:26:LEU:N	2.53	0.41
2:F:347:ASN:HD21	2:F:349:ALA:N	2.14	0.41
2:F:373:SER:O	2:F:374:ILE:HB	2.21	0.41
2:F:837:LEU:O	2:F:841:TRP:HD1	2.03	0.41
2:F:915:ILE:O	2:F:919:THR:HG22	2.20	0.41
3:G:337:VAL:HA	3:G:338:PRO:HD2	1.94	0.41
3:G:526:ARG:NH1	3:G:536:MET:CE	2.82	0.41
3:G:597:ARG:HH11	3:G:598:SER:CB	2.31	0.41
1:B:1061:MET:HE3	2:C:48:MET:CA	2.49	0.41
1:B:253:ASP:C	1:B:255:ARG:N	2.71	0.41
1:B:311:GLU:O	1:B:314:ASP:HB3	2.21	0.41
1:B:455:ASN:N	1:B:455:ASN:ND2	2.69	0.41
1:B:739:VAL:CG2	1:B:743:LYS:HB2	2.51	0.41
1:B:8:LEU:HD13	1:B:10:PRO:CD	2.49	0.41
2:C:1038:LEU:HA	2:C:1039:PRO:HD2	1.82	0.41
2:C:557:ILE:C	2:C:559:GLU:N	2.74	0.41
2:C:557:ILE:CD1	2:C:557:ILE:H	2.14	0.41
2:C:142:ARG:CZ	2:C:697:MET:HG3	2.51	0.41
1:B:672:GLU:OE1	2:C:808:PRO:HG3	2.21	0.41
2:C:832:VAL:HG22	2:C:952:ILE:HG22	2.03	0.41
2:C:837:LEU:O	2:C:841:TRP:HD1	2.03	0.41
2:C:945:LEU:HD11	2:C:989:ALA:C	2.41	0.41
3:D:62:GLU:H	3:D:62:GLU:CD	2.24	0.41
1:E:194:LEU:C	1:E:196:ASP:N	2.74	0.41
1:E:199:ARG:HG3	1:E:199:ARG:H	1.76	0.41
1:E:749:TYR:HB2	1:E:752:VAL:HG12	2.03	0.41
2:F:1001:ARG:NH2	4:Y:10:DA:OP1	2.54	0.41
2:F:105:ARG:O	2:F:106:GLU:CB	2.50	0.41
2:F:1069:THR:O	2:F:1073:GLN:HB2	2.21	0.41
2:F:27:ASP:HB3	2:F:29:PRO:HD2	2.02	0.41
2:F:392:ARG:O	2:F:396:MET:HG2	2.21	0.41
2:F:834:LEU:HD22	2:F:834:LEU:HA	1.95	0.41
2:F:834:LEU:O	2:F:838:GLN:HG3	2.21	0.41
3:G:151:ILE:HA	3:G:335:THR:HG21	2.02	0.41
2:C:1001:ARG:NH2	4:X:10:DA:OP1	2.54	0.41
1:B:262:GLN:HB2	1:B:262:GLN:HE21	1.53	0.40
1:B:732:ASP:C	1:B:734:HIS:N	2.74	0.40
1:B:34:ALA:CB	1:B:79:ASN:ND2	2.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:146:LEU:HD13	2:C:169:TRP:CZ2	2.56	0.40
2:C:159:GLY:C	2:C:160:GLU:O	2.59	0.40
2:C:285:GLN:O	2:C:286:LEU:HB2	2.21	0.40
2:C:333:ASN:ND2	2:C:336:HIS:CD2	2.89	0.40
2:C:574:TRP:HE3	2:C:578:LEU:HD13	1.86	0.40
2:C:59:ASN:C	2:C:60:ILE:HD12	2.41	0.40
2:C:767:LEU:CD2	2:C:767:LEU:N	2.84	0.40
3:D:557:ARG:HB3	3:D:558:THR:H	1.27	0.40
1:E:1094:THR:O	1:E:1096:GLN:N	2.55	0.40
1:E:571:LEU:HD12	1:E:571:LEU:HA	1.94	0.40
1:E:713:GLN:HE21	1:E:713:GLN:HB2	1.56	0.40
1:E:719:ASP:O	1:E:720:SER:O	2.39	0.40
1:E:849:ASP:HB3	1:E:852:GLY:H	1.86	0.40
3:G:204:PRO:CG	3:G:274:ILE:HD13	2.41	0.40
3:G:282:LEU:HD23	3:G:282:LEU:O	2.21	0.40
3:G:358:SER:HB2	3:G:359:TYR:H	1.75	0.40
3:G:397:LEU:HD13	3:G:410:GLU:OE1	2.21	0.40
3:G:80:ASN:O	3:G:83:GLU:N	2.54	0.40
4:X:49:DA:C2	4:X:50:5IU:C4	3.04	0.40
1:B:1028:SER:O	1:B:1029:GLU:O	2.39	0.40
1:B:1102:MET:CE	1:B:1111:TYR:OH	2.70	0.40
1:B:1107:TYR:O	1:B:1110:GLN:N	2.54	0.40
1:B:550:ARG:O	1:B:553:ASP:N	2.42	0.40
1:B:843:GLN:O	1:B:845:GLY:N	2.53	0.40
1:B:901:TRP:CD1	1:B:901:TRP:C	2.94	0.40
1:B:940:LEU:HD22	1:B:986:TRP:CH2	2.56	0.40
2:C:141:TYR:O	2:C:142:ARG:CB	2.68	0.40
2:C:142:ARG:N	2:C:143:PRO:CD	2.84	0.40
2:C:248:TRP:CD1	2:C:248:TRP:N	2.89	0.40
2:C:286:LEU:HA	2:C:291:GLY:O	2.22	0.40
2:C:532:LEU:HD13	3:D:23:PHE:HA	2.02	0.40
1:E:1008:SER:O	1:E:1009:LEU:C	2.60	0.40
1:E:901:TRP:C	1:E:901:TRP:CD1	2.93	0.40
2:F:1081:VAL:HG12	4:Y:10:DA:H2"	2.03	0.40
2:F:1082:ARG:HH11	2:F:1082:ARG:CB	2.34	0.40
2:F:14:GLU:OE2	2:F:14:GLU:C	2.59	0.40
2:F:819:GLU:OE1	2:F:820:PHE:N	2.54	0.40
2:F:848:PHE:CE1	2:F:1033:ALA:HA	2.56	0.40
3:G:300:GLN:O	3:G:302:ALA:N	2.55	0.40
3:G:317:ALA:O	3:G:319:ALA:N	2.53	0.40
3:G:340:GLY:O	3:G:341:THR:OG1	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:561:VAL:HG12	3:G:561:VAL:O	2.21	0.40
4:Y:33:DG:H2"	4:Y:34:DC:OP2	2.21	0.40
1:B:11:LEU:HD21	1:B:100:LEU:HD23	2.03	0.40
1:B:1052:PRO:O	1:B:1053:LEU:HD23	2.21	0.40
1:B:195:ARG:O	1:B:195:ARG:HG2	2.21	0.40
1:B:268:LYS:HE3	1:B:268:LYS:HA	2.03	0.40
2:C:388:VAL:HG11	2:C:784:HIS:NE2	2.36	0.40
3:D:244:LEU:HD13	3:D:255:HIS:CE1	2.56	0.40
3:D:270:GLU:HB3	3:D:273:MET:HE2	2.03	0.40
3:D:271:ALA:HA	3:D:274:ILE:HG12	2.03	0.40
3:D:450:GLY:O	3:D:454:LEU:HB2	2.22	0.40
3:D:533:THR:C	3:D:535:ALA:N	2.74	0.40
3:D:207:LYS:HZ1	3:D:544:SER:HA	1.85	0.40
3:D:555:SER:O	3:D:556:GLN:HG2	2.21	0.40
3:D:561:VAL:HG12	3:D:561:VAL:O	2.21	0.40
1:E:876:GLN:N	1:E:877:PRO:CD	2.84	0.40
1:B:879:GLN:CB	1:E:883:VAL:HG11	2.49	0.40
2:F:141:TYR:O	2:F:142:ARG:CB	2.69	0.40
1:E:1061:MET:HE3	2:F:48:MET:HA	2.03	0.40
2:F:536:ALA:O	2:F:537:MET:O	2.39	0.40
2:F:868:GLU:HB2	2:F:869:PRO:HD2	2.04	0.40
3:G:62:GLU:H	3:G:62:GLU:CD	2.22	0.40
1:B:231:THR:O	1:B:234:GLN:HB2	2.22	0.40
1:B:446:ASN:O	1:B:446:ASN:OD1	2.40	0.40
1:B:595:GLU:HA	1:B:598:TRP:CE3	2.57	0.40
1:B:688:LEU:O	1:B:691:SER:HB2	2.20	0.40
1:B:694:LEU:HA	1:B:694:LEU:HD12	1.84	0.40
2:C:199:SER:C	2:C:201:THR:N	2.74	0.40
2:C:253:ASP:O	2:C:255:ALA:N	2.53	0.40
2:C:266:ARG:HD2	2:C:269:PHE:CG	2.56	0.40
2:C:78:PRO:HD2	2:C:192:ARG:HH12	1.85	0.40
2:C:943:ILE:HG22	2:C:945:LEU:HD23	2.03	0.40
2:C:964:LEU:HB2	2:C:996:SER:HB3	2.03	0.40
2:F:234:ILE:HG22	2:F:236:ILE:HG13	2.02	0.40
2:F:297:ASN:HD22	2:F:341:ASP:HB3	1.86	0.40
2:F:394:LEU:HD23	2:F:802:TYR:HB2	2.03	0.40
2:F:524:TRP:HE3	2:F:528:LEU:HD21	1.87	0.40
2:F:604:GLU:O	2:F:607:ALA:HB3	2.20	0.40
2:F:749:GLN:O	2:F:752:ILE:HD12	2.22	0.40
3:G:90:ALA:O	3:G:100:MET:HE2	2.21	0.40
3:G:199:ILE:HG12	3:G:265:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:373:ALA:CB	3:G:380:THR:HB	2.46	0.40
3:G:586:LEU:O	3:G:586:LEU:HD23	2.22	0.40
3:G:53:LEU:CD1	3:G:58:LEU:HD12	2.51	0.40
1:B:226:VAL:HG13	1:B:269:ILE:CD1	2.51	0.40
1:B:868:GLN:HB3	1:B:868:GLN:HE21	1.61	0.40
1:B:932:ALA:HB2	1:B:947:ARG:HG2	2.04	0.40
1:B:990:LEU:O	1:B:994:ILE:HG13	2.20	0.40
2:C:1053:GLN:N	2:C:1053:GLN:OE1	2.54	0.40
2:C:1082:ARG:HH11	2:C:1082:ARG:CB	2.32	0.40
2:C:24:GLU:O	2:C:26:LEU:N	2.54	0.40
2:C:506:ILE:HG13	2:C:568:LEU:HD12	2.03	0.40
1:B:919:ASP:HA	2:C:652:GLN:HG3	2.02	0.40
3:D:33:PRO:HG3	3:D:73:SER:HB3	2.04	0.40
1:E:1084:ASN:HB3	1:E:1085:TRP:H	1.60	0.40
1:E:262:GLN:CA	1:E:265:TRP:HB3	2.51	0.40
1:E:282:LEU:C	1:E:282:LEU:HD13	2.42	0.40
1:E:311:GLU:O	1:E:314:ASP:HB3	2.22	0.40
1:E:3:ASP:N	1:E:3:ASP:OD2	2.54	0.40
1:E:623:LEU:HA	1:E:623:LEU:HD23	1.93	0.40
1:E:807:THR:O	1:E:807:THR:HG22	2.21	0.40
2:F:1077:GLY:H	2:F:1083:GLY:HA3	1.84	0.40
2:F:1075:TYR:CZ	2:F:1097:LEU:HG	2.57	0.40
2:F:425:VAL:C	2:F:427:GLY:H	2.25	0.40
2:F:557:ILE:C	2:F:559:GLU:H	2.25	0.40
2:F:611:LEU:HD23	2:F:611:LEU:C	2.42	0.40
3:G:425:ARG:HD3	3:G:425:ARG:HA	1.91	0.40
3:D:239:THR:CG2	4:X:4:5IU:OP1	2.53	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 X-ray entries followed by that with respect to entries of similar resolution.

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	B	1149/1180 (97%)	883 (77%)	173 (15%)	93 (8%)	1	11
1	E	1149/1180 (97%)	885 (77%)	173 (15%)	91 (8%)	1	11
2	C	1119/1122 (100%)	870 (78%)	164 (15%)	85 (8%)	1	12
2	F	1119/1122 (100%)	870 (78%)	162 (14%)	87 (8%)	1	11
3	D	541/608 (89%)	374 (69%)	97 (18%)	70 (13%)	0	5
3	G	541/608 (89%)	375 (69%)	95 (18%)	71 (13%)	0	4
All	All	5618/5820 (96%)	4257 (76%)	864 (15%)	497 (9%)	1	9

All (497) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	17	GLY
1	B	18	GLU
1	B	95	PRO
1	B	96	LEU
1	B	155	ASP
1	B	214	ASP
1	B	244	ASP
1	B	259	ARG
1	B	276	GLU
1	B	282	LEU
1	B	307	HIS
1	B	308	PRO
1	B	320	PRO
1	B	463	GLN
1	B	492	LYS
1	B	514	TYR
1	B	678	ALA
1	B	720	SER
1	B	782	ALA
1	B	844	LYS
1	B	870	ALA
1	B	875	ASN
1	B	879	GLN
1	B	912	ARG
1	B	916	ILE
1	B	938	PRO
1	B	1002	LEU
1	B	1007	VAL
1	B	1050	CYS
1	B	1052	PRO

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Mol	Chain	Res	Type
1	B	1085	TRP
1	B	1090	SER
1	B	1143	LEU
2	C	23	ARG
2	C	28	ASP
2	C	60	ILE
2	C	117	ASP
2	C	119	SER
2	C	160	GLU
2	C	271	ASP
2	C	279	ASP
2	C	282	ASN
2	C	290	ASP
2	C	368	ASP
2	C	399	GLU
2	C	658	PRO
2	C	689	LEU
2	C	736	ILE
2	C	829	PRO
2	C	843	HIS
2	C	862	SER
2	C	948	ASN
2	C	958	GLN
2	C	992	GLY
2	C	1013	ALA
2	C	1036	LEU
2	C	1083	GLY
3	D	16	LEU
3	D	65	HIS
3	D	78	LEU
3	D	79	GLN
3	D	95	ASP
3	D	131	GLU
3	D	132	VAL
3	D	151	ILE
3	D	193	ASP
3	D	222	GLN
3	D	227	ASP
3	D	237	ALA
3	D	256	HIS
3	D	259	ASN
3	D	260	PRO

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Mol	Chain	Res	Type
3	D	279	MET
3	D	280	SER
3	D	345	ALA
3	D	346	ALA
3	D	365	SER
3	D	388	GLN
3	D	391	THR
3	D	529	GLU
3	D	557	ARG
3	D	558	THR
1	E	17	GLY
1	E	18	GLU
1	E	95	PRO
1	E	96	LEU
1	E	155	ASP
1	E	214	ASP
1	E	244	ASP
1	E	259	ARG
1	E	276	GLU
1	E	282	LEU
1	E	307	HIS
1	E	308	PRO
1	E	463	GLN
1	E	492	LYS
1	E	514	TYR
1	E	678	ALA
1	E	720	SER
1	E	782	ALA
1	E	844	LYS
1	E	875	ASN
1	E	879	GLN
1	E	912	ARG
1	E	916	ILE
1	E	938	PRO
1	E	1002	LEU
1	E	1007	VAL
1	E	1050	CYS
1	E	1052	PRO
1	E	1085	TRP
1	E	1090	SER
1	E	1143	LEU
2	F	23	ARG

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Mol	Chain	Res	Type
2	F	28	ASP
2	F	60	ILE
2	F	117	ASP
2	F	119	SER
2	F	160	GLU
2	F	271	ASP
2	F	279	ASP
2	F	282	ASN
2	F	290	ASP
2	F	368	ASP
2	F	399	GLU
2	F	658	PRO
2	F	689	LEU
2	F	829	PRO
2	F	843	HIS
2	F	862	SER
2	F	948	ASN
2	F	958	GLN
2	F	992	GLY
2	F	1013	ALA
2	F	1036	LEU
2	F	1083	GLY
3	G	16	LEU
3	G	65	HIS
3	G	79	GLN
3	G	95	ASP
3	G	131	GLU
3	G	132	VAL
3	G	151	ILE
3	G	193	ASP
3	G	222	GLN
3	G	227	ASP
3	G	237	ALA
3	G	245	GLY
3	G	256	HIS
3	G	259	ASN
3	G	260	PRO
3	G	280	SER
3	G	345	ALA
3	G	346	ALA
3	G	365	SER
3	G	388	GLN

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Mol	Chain	Res	Type
3	G	391	THR
3	G	451	VAL
3	G	526	ARG
3	G	529	GLU
3	G	557	ARG
3	G	558	THR
1	B	24	SER
1	B	239	ALA
1	B	250	SER
1	B	252	ILE
1	B	261	ASN
1	B	470	PHE
1	B	471	ARG
1	B	731	SER
1	B	827	LYS
1	B	861	CYS
1	B	1073	GLU
1	B	1088	GLU
2	C	25	ARG
2	C	27	ASP
2	C	53	LYS
2	C	56	ILE
2	C	106	GLU
2	C	120	ASP
2	C	200	ALA
2	C	288	ASN
2	C	304	GLY
2	C	432	ASP
2	C	449	PRO
2	C	503	ARG
2	C	537	MET
2	C	540	ALA
2	C	630	ASP
2	C	692	LEU
2	C	861	ASP
2	C	910	GLY
2	C	990	SER
2	C	1078	ASN
3	D	2	LYS
3	D	3	LEU
3	D	14	LYS
3	D	29	GLY

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Mol	Chain	Res	Type
3	D	67	LEU
3	D	74	GLU
3	D	80	ASN
3	D	225	LEU
3	D	229	GLN
3	D	232	ARG
3	D	245	GLY
3	D	255	HIS
3	D	261	LEU
3	D	338	PRO
3	D	340	GLY
3	D	376	ARG
3	D	390	PHE
3	D	426	ALA
3	D	450	GLY
3	D	451	VAL
3	D	526	ARG
3	D	530	HIS
3	D	533	THR
3	D	583	GLU
3	D	594	THR
1	E	24	SER
1	E	239	ALA
1	E	250	SER
1	E	252	ILE
1	E	261	ASN
1	E	320	PRO
1	E	364	SER
1	E	470	PHE
1	E	471	ARG
1	E	731	SER
1	E	827	LYS
1	E	861	CYS
1	E	870	ALA
1	E	1073	GLU
1	E	1088	GLU
2	F	25	ARG
2	F	27	ASP
2	F	53	LYS
2	F	200	ALA
2	F	262	THR
2	F	288	ASN

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Mol	Chain	Res	Type
2	F	304	GLY
2	F	432	ASP
2	F	449	PRO
2	F	537	MET
2	F	540	ALA
2	F	630	ASP
2	F	692	LEU
2	F	736	ILE
2	F	861	ASP
2	F	910	GLY
2	F	990	SER
2	F	1078	ASN
3	G	2	LYS
3	G	3	LEU
3	G	14	LYS
3	G	29	GLY
3	G	67	LEU
3	G	74	GLU
3	G	78	LEU
3	G	80	ASN
3	G	229	GLN
3	G	232	ARG
3	G	255	HIS
3	G	261	LEU
3	G	279	MET
3	G	338	PRO
3	G	340	GLY
3	G	376	ARG
3	G	390	PHE
3	G	426	ALA
3	G	450	GLY
3	G	530	HIS
3	G	533	THR
3	G	583	GLU
3	G	594	THR
1	B	44	LEU
1	B	107	LYS
1	B	235	GLN
1	B	260	SER
1	B	324	ARG
1	B	331	ALA
1	B	364	SER

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Mol	Chain	Res	Type
1	B	515	GLN
1	B	609	GLU
1	B	611	THR
1	B	629	GLU
1	B	718	PRO
1	B	761	ARG
1	B	780	LEU
1	B	826	ASP
1	B	937	GLU
1	B	985	GLN
1	B	1057	GLN
1	B	1087	GLY
1	B	1095	GLN
2	C	142	ARG
2	C	262	THR
2	C	273	GLU
2	C	283	ALA
2	C	602	ASP
2	C	705	ASP
2	C	795	GLN
2	C	831	THR
2	C	854	GLN
2	C	866	ASP
3	D	134	GLU
3	D	234	PRO
3	D	235	GLU
3	D	272	SER
3	D	301	LEU
3	D	598	SER
1	E	44	LEU
1	E	107	LYS
1	E	220	SER
1	E	235	GLN
1	E	260	SER
1	E	310	PHE
1	E	324	ARG
1	E	331	ALA
1	E	515	GLN
1	E	609	GLU
1	E	629	GLU
1	E	761	ARG
1	E	780	LEU

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Mol	Chain	Res	Type
1	E	826	ASP
1	E	832	ASP
1	E	937	GLU
1	E	985	GLN
1	E	1057	GLN
1	E	1087	GLY
1	E	1095	GLN
2	F	56	ILE
2	F	106	GLU
2	F	120	ASP
2	F	142	ARG
2	F	273	GLU
2	F	283	ALA
2	F	433	ARG
2	F	446	GLN
2	F	503	ARG
2	F	602	ASP
2	F	705	ASP
2	F	795	GLN
2	F	831	THR
2	F	854	GLN
3	G	60	ASN
3	G	134	GLU
3	G	225	LEU
3	G	234	PRO
3	G	235	GLU
3	G	272	SER
3	G	301	LEU
3	G	452	ALA
3	G	598	SER
1	B	220	SER
1	B	269	ILE
1	B	310	PHE
1	B	366	SER
1	B	469	MET
1	B	712	SER
1	B	830	ASP
1	B	832	ASP
1	B	905	SER
1	B	1111	TYR
1	B	1128	ASP
1	B	1161	ASN

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Mol	Chain	Res	Type
2	C	54	PHE
2	C	182	PRO
2	C	261	LEU
2	C	429	ALA
2	C	433	ARG
2	C	446	GLN
2	C	451	LEU
2	C	686	PRO
2	C	937	PRO
3	D	60	ASN
3	D	126	VAL
3	D	339	ALA
3	D	425	ARG
3	D	428	PRO
3	D	452	ALA
1	E	269	ILE
1	E	366	SER
1	E	469	MET
1	E	718	PRO
1	E	759	ASN
1	E	766	ALA
1	E	830	ASP
1	E	905	SER
1	E	1005	THR
1	E	1009	LEU
1	E	1030	PRO
1	E	1111	TYR
1	E	1128	ASP
1	E	1161	ASN
2	F	54	PHE
2	F	83	GLU
2	F	201	THR
2	F	429	ALA
2	F	431	ALA
2	F	451	LEU
2	F	686	PRO
2	F	866	ASP
2	F	933	ALA
2	F	937	PRO
3	G	339	ALA
3	G	425	ARG
3	G	428	PRO

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Mol	Chain	Res	Type
1	B	4	VAL
1	B	249	SER
1	B	934	VAL
1	B	1005	THR
1	B	1029	GLU
1	B	1127	ALA
1	B	1138	VAL
2	C	76	VAL
2	C	83	GLU
2	C	201	THR
2	C	252	LYS
2	C	401	PRO
2	C	467	SER
2	C	544	TRP
2	C	659	VAL
2	C	1037	VAL
3	D	146	PRO
3	D	147	VAL
3	D	221	ARG
3	D	223	LEU
3	D	427	GLU
1	E	4	VAL
1	E	249	SER
1	E	712	SER
1	E	1029	GLU
1	E	1127	ALA
1	E	1138	VAL
2	F	76	VAL
2	F	182	PRO
2	F	252	LYS
2	F	261	LEU
2	F	367	LEU
2	F	401	PRO
2	F	467	SER
2	F	477	PRO
2	F	659	VAL
2	F	734	ARG
2	F	1037	VAL
3	G	146	PRO
3	G	223	LEU
3	G	278	MET
3	G	427	GLU

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Mol	Chain	Res	Type
1	B	51	PRO
1	B	156	GLU
1	B	699	THR
1	B	1030	PRO
1	B	1126	ILE
2	C	286	LEU
2	C	374	ILE
2	C	477	PRO
2	C	933	ALA
3	D	393	ILE
1	E	934	VAL
1	E	1126	ILE
2	F	286	LEU
2	F	374	ILE
3	G	147	VAL
3	G	309	VAL
3	G	318	ASN
3	G	393	ILE
1	B	605	THR
2	C	206	GLY
2	C	295	VAL
2	C	430	PRO
3	D	309	VAL
1	E	51	PRO
2	F	206	GLY
2	F	295	VAL
2	F	296	GLY
2	F	430	PRO
3	G	126	VAL
3	G	528	PRO
1	B	477	PRO
2	C	207	LEU
2	C	296	GLY
2	C	450	VAL
3	D	528	PRO
2	F	207	LEU
2	F	450	VAL
2	C	461	PRO
2	C	796	PRO
1	E	605	THR
1	B	328	ILE
1	B	946	PRO

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Mol	Chain	Res	Type
2	C	685	TYR
2	F	461	PRO
2	F	796	PRO
1	E	876	GLN
2	F	844	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	B	978/999 (98%)	848 (87%)	130 (13%)	4	23
1	E	978/999 (98%)	848 (87%)	130 (13%)	4	23
2	C	976/977 (100%)	838 (86%)	138 (14%)	3	21
2	F	976/977 (100%)	835 (86%)	141 (14%)	3	20
3	D	443/492 (90%)	374 (84%)	69 (16%)	2	18
3	G	443/492 (90%)	378 (85%)	65 (15%)	3	20
All	All	4794/4936 (97%)	4121 (86%)	673 (14%)	3	21

All (673) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	16	GLN
1	B	18	GLU
1	B	30	THR
1	B	52	ARG
1	B	57	GLU
1	B	60	LEU
1	B	63	THR
1	B	72	LEU
1	B	73	ARG
1	B	77	ARG
1	B	83	LEU
1	B	87	CYS
1	B	94	ASN

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Mol	Chain	Res	Type
1	B	95	PRO
1	B	96	LEU
1	B	103	GLU
1	B	105	ASP
1	B	107	LYS
1	B	135	ARG
1	B	150	GLN
1	B	151	GLN
1	B	152	LEU
1	B	168	TRP
1	B	187	TRP
1	B	194	LEU
1	B	196	ASP
1	B	214	ASP
1	B	215	ASP
1	B	218	LEU
1	B	234	GLN
1	B	242	GLU
1	B	244	ASP
1	B	249	SER
1	B	262	GLN
1	B	265	TRP
1	B	268	LYS
1	B	272	TRP
1	B	274	GLU
1	B	275	GLU
1	B	278	ASN
1	B	284	GLU
1	B	310	PHE
1	B	316	LEU
1	B	330	ARG
1	B	332	LEU
1	B	354	MET
1	B	358	LEU
1	B	363	ARG
1	B	365	GLU
1	B	368	GLU
1	B	377	ARG
1	B	423	ARG
1	B	432	LYS
1	B	434	ARG
1	B	436	GLU

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Mol	Chain	Res	Type
1	B	445	THR
1	B	448	ARG
1	B	470	PHE
1	B	471	ARG
1	B	494	GLU
1	B	496	GLN
1	B	501	MET
1	B	517	THR
1	B	527	ARG
1	B	558	VAL
1	B	559	ARG
1	B	566	GLN
1	B	572	THR
1	B	591	LEU
1	B	605	THR
1	B	610	ASN
1	B	633	ASN
1	B	643	GLU
1	B	649	ARG
1	B	688	LEU
1	B	694	LEU
1	B	704	GLU
1	B	707	LEU
1	B	711	LEU
1	B	713	GLN
1	B	728	ARG
1	B	729	LEU
1	B	736	VAL
1	B	743	LYS
1	B	752	VAL
1	B	753	TRP
1	B	754	LEU
1	B	763	GLN
1	B	765	GLN
1	B	771	ARG
1	B	786	SER
1	B	802	LEU
1	B	806	LEU
1	B	815	LEU
1	B	826	ASP
1	B	830	ASP
1	B	831	THR

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Mol	Chain	Res	Type
1	B	832	ASP
1	B	838	LEU
1	B	853	LEU
1	B	878	TRP
1	B	885	THR
1	B	889	ASN
1	B	891	LYS
1	B	893	LEU
1	B	904	THR
1	B	919	ASP
1	B	924	LEU
1	B	936	GLU
1	B	939	THR
1	B	947	ARG
1	B	962	LEU
1	B	963	ASP
1	B	964	PHE
1	B	974	ARG
1	B	976	LYS
1	B	987	GLU
1	B	1007	VAL
1	B	1008	SER
1	B	1021	MET
1	B	1037	ASP
1	B	1046	LEU
1	B	1059	ARG
1	B	1086	LEU
1	B	1109	LEU
1	B	1116	LEU
1	B	1118	LEU
1	B	1129	TYR
1	B	1155	ILE
1	B	1172	PHE
2	C	2	LEU
2	C	9	ARG
2	C	25	ARG
2	C	27	ASP
2	C	37	VAL
2	C	53	LYS
2	C	59	ASN
2	C	60	ILE
2	C	83	GLU

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Mol	Chain	Res	Type
2	C	87	ASN
2	C	97	THR
2	C	105	ARG
2	C	106	GLU
2	C	107	ASP
2	C	108	PHE
2	C	110	LEU
2	C	119	SER
2	C	144	ASP
2	C	168	LEU
2	C	176	THR
2	C	182	PRO
2	C	185	HIS
2	C	190	TYR
2	C	191	GLN
2	C	196	THR
2	C	207	LEU
2	C	210	ARG
2	C	230	LEU
2	C	241	THR
2	C	251	ILE
2	C	253	ASP
2	C	264	GLN
2	C	269	PHE
2	C	273	GLU
2	C	274	LEU
2	C	276	LEU
2	C	277	PHE
2	C	287	PHE
2	C	290	ASP
2	C	311	ILE
2	C	316	ASP
2	C	323	LEU
2	C	332	ASP
2	C	335	LEU
2	C	343	LEU
2	C	344	GLU
2	C	347	ASN
2	C	353	VAL
2	C	355	ILE
2	C	356	GLU
2	C	363	ASN

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Mol	Chain	Res	Type
2	C	367	LEU
2	C	370	LEU
2	C	383	GLN
2	C	384	ARG
2	C	400	ASP
2	C	403	LEU
2	C	432	ASP
2	C	442	ARG
2	C	445	ARG
2	C	456	SER
2	C	458	LEU
2	C	482	ARG
2	C	487	GLU
2	C	488	GLU
2	C	490	LEU
2	C	504	TRP
2	C	533	LEU
2	C	551	ASP
2	C	552	GLU
2	C	557	ILE
2	C	572	ASN
2	C	575	ARG
2	C	582	ARG
2	C	584	LEU
2	C	592	ARG
2	C	627	GLN
2	C	634	LEU
2	C	635	SER
2	C	636	LEU
2	C	641	LEU
2	C	645	LEU
2	C	646	ASP
2	C	658	PRO
2	C	660	ASN
2	C	688	GLN
2	C	696	LEU
2	C	699	GLN
2	C	709	ARG
2	C	717	LEU
2	C	734	ARG
2	C	736	ILE
2	C	746	VAL

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Mol	Chain	Res	Type
2	C	764	ASP
2	C	765	GLU
2	C	767	LEU
2	C	780	LEU
2	C	807	LEU
2	C	821	VAL
2	C	827	THR
2	C	834	LEU
2	C	853	LEU
2	C	856	ASN
2	C	859	THR
2	C	867	THR
2	C	868	GLU
2	C	871	ILE
2	C	872	LEU
2	C	877	ARG
2	C	883	GLN
2	C	884	LEU
2	C	885	LEU
2	C	896	ARG
2	C	897	LEU
2	C	901	PHE
2	C	919	THR
2	C	927	LEU
2	C	943	ILE
2	C	948	ASN
2	C	952	ILE
2	C	955	TRP
2	C	962	ASP
2	C	966	ARG
2	C	968	ARG
2	C	986	VAL
2	C	997	ARG
2	C	998	LEU
2	C	1035	LEU
2	C	1046	LEU
2	C	1053	GLN
2	C	1055	ASP
2	C	1057	MET
2	C	1087	ASP
2	C	1092	ARG
2	C	1096	GLN

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Mol	Chain	Res	Type
2	C	1097	LEU
2	C	1098	THR
2	C	1121	GLN
3	D	3	LEU
3	D	4	GLN
3	D	6	GLN
3	D	21	VAL
3	D	37	LEU
3	D	53	LEU
3	D	71	CYS
3	D	77	GLU
3	D	91	VAL
3	D	96	GLU
3	D	105	ASP
3	D	115	ASN
3	D	121	ARG
3	D	125	GLU
3	D	128	HIS
3	D	130	ILE
3	D	134	GLU
3	D	137	LEU
3	D	142	ASP
3	D	149	ASP
3	D	150	GLU
3	D	188	LEU
3	D	195	GLU
3	D	212	LEU
3	D	220	LEU
3	D	223	LEU
3	D	228	GLU
3	D	229	GLN
3	D	233	ILE
3	D	239	THR
3	D	240	LEU
3	D	241	HIS
3	D	242	ARG
3	D	243	LEU
3	D	244	LEU
3	D	251	GLN
3	D	263	LEU
3	D	264	ASP
3	D	265	VAL

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Mol	Chain	Res	Type
3	D	276	LEU
3	D	278	MET
3	D	281	ARG
3	D	284	ASP
3	D	300	GLN
3	D	304	VAL
3	D	325	ARG
3	D	348	LEU
3	D	349	ARG
3	D	354	LEU
3	D	356	GLN
3	D	369	GLN
3	D	378	ASP
3	D	380	THR
3	D	384	THR
3	D	392	ASP
3	D	397	LEU
3	D	398	LEU
3	D	436	ASN
3	D	457	ARG
3	D	526	ARG
3	D	529	GLU
3	D	532	THR
3	D	534	TRP
3	D	579	LEU
3	D	586	LEU
3	D	590	ILE
3	D	594	THR
3	D	595	GLU
3	D	598	SER
1	E	16	GLN
1	E	18	GLU
1	E	30	THR
1	E	52	ARG
1	E	57	GLU
1	E	60	LEU
1	E	63	THR
1	E	72	LEU
1	E	73	ARG
1	E	77	ARG
1	E	83	LEU
1	E	87	CYS

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Mol	Chain	Res	Type
1	E	94	ASN
1	E	95	PRO
1	E	96	LEU
1	E	103	GLU
1	E	105	ASP
1	E	107	LYS
1	E	135	ARG
1	E	150	GLN
1	E	151	GLN
1	E	152	LEU
1	E	168	TRP
1	E	187	TRP
1	E	194	LEU
1	E	196	ASP
1	E	214	ASP
1	E	215	ASP
1	E	218	LEU
1	E	234	GLN
1	E	242	GLU
1	E	244	ASP
1	E	249	SER
1	E	262	GLN
1	E	265	TRP
1	E	268	LYS
1	E	272	TRP
1	E	274	GLU
1	E	275	GLU
1	E	278	ASN
1	E	284	GLU
1	E	310	PHE
1	E	316	LEU
1	E	330	ARG
1	E	332	LEU
1	E	354	MET
1	E	358	LEU
1	E	363	ARG
1	E	365	GLU
1	E	368	GLU
1	E	377	ARG
1	E	423	ARG
1	E	432	LYS
1	E	434	ARG

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Mol	Chain	Res	Type
1	E	436	GLU
1	E	445	THR
1	E	448	ARG
1	E	470	PHE
1	E	471	ARG
1	E	494	GLU
1	E	496	GLN
1	E	501	MET
1	E	517	THR
1	E	527	ARG
1	E	558	VAL
1	E	559	ARG
1	E	566	GLN
1	E	572	THR
1	E	591	LEU
1	E	605	THR
1	E	610	ASN
1	E	633	ASN
1	E	643	GLU
1	E	649	ARG
1	E	688	LEU
1	E	694	LEU
1	E	704	GLU
1	E	707	LEU
1	E	711	LEU
1	E	713	GLN
1	E	728	ARG
1	E	729	LEU
1	E	736	VAL
1	E	743	LYS
1	E	752	VAL
1	E	753	TRP
1	E	754	LEU
1	E	763	GLN
1	E	765	GLN
1	E	771	ARG
1	E	786	SER
1	E	802	LEU
1	E	806	LEU
1	E	815	LEU
1	E	826	ASP
1	E	830	ASP

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Mol	Chain	Res	Type
1	E	831	THR
1	E	832	ASP
1	E	838	LEU
1	E	853	LEU
1	E	878	TRP
1	E	885	THR
1	E	889	ASN
1	E	891	LYS
1	E	893	LEU
1	E	904	THR
1	E	919	ASP
1	E	924	LEU
1	E	936	GLU
1	E	939	THR
1	E	947	ARG
1	E	962	LEU
1	E	963	ASP
1	E	964	PHE
1	E	974	ARG
1	E	976	LYS
1	E	987	GLU
1	E	1007	VAL
1	E	1008	SER
1	E	1021	MET
1	E	1037	ASP
1	E	1046	LEU
1	E	1059	ARG
1	E	1086	LEU
1	E	1109	LEU
1	E	1116	LEU
1	E	1118	LEU
1	E	1129	TYR
1	E	1155	ILE
1	E	1172	PHE
2	F	2	LEU
2	F	9	ARG
2	F	25	ARG
2	F	27	ASP
2	F	37	VAL
2	F	53	LYS
2	F	59	ASN
2	F	60	ILE

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Mol	Chain	Res	Type
2	F	83	GLU
2	F	87	ASN
2	F	97	THR
2	F	105	ARG
2	F	107	ASP
2	F	108	PHE
2	F	110	LEU
2	F	119	SER
2	F	144	ASP
2	F	168	LEU
2	F	176	THR
2	F	182	PRO
2	F	183	ARG
2	F	185	HIS
2	F	190	TYR
2	F	191	GLN
2	F	196	THR
2	F	207	LEU
2	F	210	ARG
2	F	230	LEU
2	F	241	THR
2	F	251	ILE
2	F	253	ASP
2	F	264	GLN
2	F	269	PHE
2	F	273	GLU
2	F	274	LEU
2	F	276	LEU
2	F	277	PHE
2	F	282	ASN
2	F	287	PHE
2	F	290	ASP
2	F	311	ILE
2	F	316	ASP
2	F	323	LEU
2	F	332	ASP
2	F	335	LEU
2	F	343	LEU
2	F	344	GLU
2	F	347	ASN
2	F	353	VAL
2	F	355	ILE

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Mol	Chain	Res	Type
2	F	356	GLU
2	F	363	ASN
2	F	367	LEU
2	F	370	LEU
2	F	383	GLN
2	F	384	ARG
2	F	400	ASP
2	F	403	LEU
2	F	432	ASP
2	F	442	ARG
2	F	445	ARG
2	F	456	SER
2	F	458	LEU
2	F	467	SER
2	F	482	ARG
2	F	487	GLU
2	F	488	GLU
2	F	490	LEU
2	F	494	ARG
2	F	504	TRP
2	F	533	LEU
2	F	551	ASP
2	F	552	GLU
2	F	557	ILE
2	F	572	ASN
2	F	575	ARG
2	F	582	ARG
2	F	584	LEU
2	F	592	ARG
2	F	627	GLN
2	F	634	LEU
2	F	635	SER
2	F	636	LEU
2	F	641	LEU
2	F	645	LEU
2	F	646	ASP
2	F	658	PRO
2	F	660	ASN
2	F	688	GLN
2	F	696	LEU
2	F	699	GLN
2	F	709	ARG

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Mol	Chain	Res	Type
2	F	717	LEU
2	F	734	ARG
2	F	736	ILE
2	F	746	VAL
2	F	764	ASP
2	F	765	GLU
2	F	767	LEU
2	F	780	LEU
2	F	807	LEU
2	F	821	VAL
2	F	827	THR
2	F	834	LEU
2	F	853	LEU
2	F	856	ASN
2	F	859	THR
2	F	867	THR
2	F	868	GLU
2	F	871	ILE
2	F	872	LEU
2	F	877	ARG
2	F	883	GLN
2	F	884	LEU
2	F	885	LEU
2	F	896	ARG
2	F	897	LEU
2	F	901	PHE
2	F	919	THR
2	F	927	LEU
2	F	943	ILE
2	F	948	ASN
2	F	952	ILE
2	F	955	TRP
2	F	962	ASP
2	F	966	ARG
2	F	968	ARG
2	F	986	VAL
2	F	997	ARG
2	F	998	LEU
2	F	1035	LEU
2	F	1046	LEU
2	F	1053	GLN
2	F	1055	ASP

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Mol	Chain	Res	Type
2	F	1057	MET
2	F	1087	ASP
2	F	1092	ARG
2	F	1096	GLN
2	F	1097	LEU
2	F	1098	THR
2	F	1121	GLN
3	G	3	LEU
3	G	4	GLN
3	G	6	GLN
3	G	21	VAL
3	G	37	LEU
3	G	53	LEU
3	G	77	GLU
3	G	91	VAL
3	G	96	GLU
3	G	105	ASP
3	G	121	ARG
3	G	125	GLU
3	G	128	HIS
3	G	130	ILE
3	G	134	GLU
3	G	137	LEU
3	G	142	ASP
3	G	149	ASP
3	G	150	GLU
3	G	188	LEU
3	G	195	GLU
3	G	212	LEU
3	G	220	LEU
3	G	228	GLU
3	G	229	GLN
3	G	233	ILE
3	G	239	THR
3	G	240	LEU
3	G	241	HIS
3	G	242	ARG
3	G	243	LEU
3	G	263	LEU
3	G	264	ASP
3	G	265	VAL
3	G	276	LEU

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Mol	Chain	Res	Type
3	G	278	MET
3	G	281	ARG
3	G	284	ASP
3	G	304	VAL
3	G	325	ARG
3	G	344	GLU
3	G	348	LEU
3	G	349	ARG
3	G	354	LEU
3	G	356	GLN
3	G	361	PHE
3	G	369	GLN
3	G	378	ASP
3	G	380	THR
3	G	384	THR
3	G	392	ASP
3	G	397	LEU
3	G	398	LEU
3	G	436	ASN
3	G	457	ARG
3	G	526	ARG
3	G	529	GLU
3	G	532	THR
3	G	534	TRP
3	G	579	LEU
3	G	586	LEU
3	G	590	ILE
3	G	594	THR
3	G	595	GLU
3	G	598	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (266) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	16	GLN
1	B	109	GLN
1	B	130	HIS
1	B	150	GLN
1	B	151	GLN
1	B	181	GLN
1	B	202	GLN
1	B	222	HIS

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Mol	Chain	Res	Type
1	B	224	GLN
1	B	234	GLN
1	B	262	GLN
1	B	315	GLN
1	B	392	GLN
1	B	403	HIS
1	B	404	GLN
1	B	455	ASN
1	B	484	ASN
1	B	496	GLN
1	B	515	GLN
1	B	531	GLN
1	B	566	GLN
1	B	610	ASN
1	B	624	ASN
1	B	633	ASN
1	B	695	GLN
1	B	705	HIS
1	B	713	GLN
1	B	721	ASN
1	B	725	GLN
1	B	726	GLN
1	B	763	GLN
1	B	765	GLN
1	B	769	HIS
1	B	812	HIS
1	B	834	HIS
1	B	835	GLN
1	B	848	GLN
1	B	868	GLN
1	B	875	ASN
1	B	876	GLN
1	B	881	ASN
1	B	889	ASN
1	B	900	ASN
1	B	911	GLN
1	B	944	GLN
1	B	966	GLN
1	B	999	GLN
1	B	1011	GLN
1	B	1042	GLN
1	B	1057	GLN

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Mol	Chain	Res	Type
1	B	1072	HIS
1	B	1095	GLN
1	B	1103	GLN
1	B	1110	GLN
1	B	1124	HIS
1	B	1134	HIS
1	B	1152	GLN
2	C	6	HIS
2	C	8	ASN
2	C	38	GLN
2	C	52	GLN
2	C	87	ASN
2	C	126	GLN
2	C	162	GLN
2	C	165	GLN
2	C	177	HIS
2	C	178	GLN
2	C	188	ASN
2	C	191	GLN
2	C	228	GLN
2	C	264	GLN
2	C	267	HIS
2	C	285	GLN
2	C	333	ASN
2	C	336	HIS
2	C	347	ASN
2	C	354	ASN
2	C	363	ASN
2	C	383	GLN
2	C	423	GLN
2	C	446	GLN
2	C	510	ASN
2	C	521	GLN
2	C	522	HIS
2	C	563	HIS
2	C	572	ASN
2	C	580	GLN
2	C	617	GLN
2	C	647	GLN
2	C	681	ASN
2	C	699	GLN
2	C	737	GLN

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Mol	Chain	Res	Type
2	C	768	ASN
2	C	792	GLN
2	C	793	ASN
2	C	795	GLN
2	C	800	GLN
2	C	812	GLN
2	C	822	GLN
2	C	843	HIS
2	C	850	GLN
2	C	879	GLN
2	C	936	GLN
2	C	939	GLN
2	C	948	ASN
2	C	976	GLN
2	C	979	GLN
2	C	984	HIS
2	C	1015	GLN
2	C	1022	GLN
2	C	1065	GLN
2	C	1078	ASN
2	C	1091	GLN
2	C	1110	GLN
3	D	4	GLN
3	D	6	GLN
3	D	15	GLN
3	D	79	GLN
3	D	115	ASN
3	D	139	GLN
3	D	247	GLN
3	D	251	GLN
3	D	256	HIS
3	D	328	GLN
3	D	356	GLN
3	D	369	GLN
3	D	388	GLN
3	D	423	GLN
3	D	433	GLN
3	D	460	GLN
3	D	464	GLN
3	D	530	HIS
3	D	542	GLN
1	E	16	GLN

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Mol	Chain	Res	Type
1	E	109	GLN
1	E	150	GLN
1	E	151	GLN
1	E	181	GLN
1	E	202	GLN
1	E	222	HIS
1	E	224	GLN
1	E	234	GLN
1	E	262	GLN
1	E	315	GLN
1	E	392	GLN
1	E	403	HIS
1	E	404	GLN
1	E	455	ASN
1	E	484	ASN
1	E	496	GLN
1	E	515	GLN
1	E	531	GLN
1	E	566	GLN
1	E	610	ASN
1	E	633	ASN
1	E	695	GLN
1	E	705	HIS
1	E	713	GLN
1	E	721	ASN
1	E	725	GLN
1	E	726	GLN
1	E	763	GLN
1	E	765	GLN
1	E	769	HIS
1	E	812	HIS
1	E	834	HIS
1	E	835	GLN
1	E	848	GLN
1	E	868	GLN
1	E	875	ASN
1	E	876	GLN
1	E	879	GLN
1	E	889	ASN
1	E	900	ASN
1	E	911	GLN
1	E	944	GLN

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Mol	Chain	Res	Type
1	E	966	GLN
1	E	999	GLN
1	E	1011	GLN
1	E	1042	GLN
1	E	1057	GLN
1	E	1072	HIS
1	E	1095	GLN
1	E	1103	GLN
1	E	1110	GLN
1	E	1124	HIS
1	E	1134	HIS
1	E	1152	GLN
2	F	8	ASN
2	F	38	GLN
2	F	52	GLN
2	F	87	ASN
2	F	126	GLN
2	F	162	GLN
2	F	165	GLN
2	F	177	HIS
2	F	178	GLN
2	F	188	ASN
2	F	191	GLN
2	F	228	GLN
2	F	264	GLN
2	F	267	HIS
2	F	285	GLN
2	F	333	ASN
2	F	336	HIS
2	F	347	ASN
2	F	354	ASN
2	F	363	ASN
2	F	423	GLN
2	F	446	GLN
2	F	510	ASN
2	F	521	GLN
2	F	522	HIS
2	F	563	HIS
2	F	572	ASN
2	F	580	GLN
2	F	617	GLN
2	F	643	GLN

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Mol	Chain	Res	Type
2	F	647	GLN
2	F	681	ASN
2	F	699	GLN
2	F	737	GLN
2	F	768	ASN
2	F	792	GLN
2	F	793	ASN
2	F	795	GLN
2	F	800	GLN
2	F	812	GLN
2	F	822	GLN
2	F	843	HIS
2	F	850	GLN
2	F	879	GLN
2	F	882	GLN
2	F	936	GLN
2	F	939	GLN
2	F	948	ASN
2	F	958	GLN
2	F	976	GLN
2	F	979	GLN
2	F	984	HIS
2	F	1015	GLN
2	F	1022	GLN
2	F	1065	GLN
2	F	1078	ASN
2	F	1091	GLN
2	F	1110	GLN
3	G	4	GLN
3	G	6	GLN
3	G	15	GLN
3	G	60	ASN
3	G	79	GLN
3	G	115	ASN
3	G	139	GLN
3	G	247	GLN
3	G	259	ASN
3	G	328	GLN
3	G	356	GLN
3	G	369	GLN
3	G	388	GLN
3	G	423	GLN

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Mol	Chain	Res	Type
3	G	433	GLN
3	G	439	GLN
3	G	460	GLN
3	G	464	GLN
3	G	530	HIS
3	G	542	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

18 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	5IU	X	50	4	14,21,22	1.40	3 (21%)	16,30,33	4.03	4 (25%)
4	5IU	Y	3	4	14,21,22	1.64	3 (21%)	16,30,33	4.07	4 (25%)
4	5IU	X	9	4	14,21,22	1.82	3 (21%)	16,30,33	3.93	3 (18%)
4	5IU	X	4	4	14,21,22	1.59	3 (21%)	16,30,33	4.05	4 (25%)
4	5IU	X	5	4	14,21,22	1.43	2 (14%)	16,30,33	4.41	4 (25%)
4	5IU	Y	9	4	14,21,22	1.76	3 (21%)	16,30,33	3.97	3 (18%)
4	5IU	X	7	4	14,21,22	1.82	3 (21%)	16,30,33	4.11	4 (25%)
4	5IU	Y	5	4	14,21,22	1.97	3 (21%)	16,30,33	4.05	4 (25%)
4	5IU	Y	4	4	14,21,22	1.52	3 (21%)	16,30,33	4.08	4 (25%)
4	5IU	X	3	4	14,21,22	1.69	3 (21%)	16,30,33	4.11	4 (25%)
4	5IU	Y	1	4	14,18,22	1.52	3 (21%)	16,26,33	4.00	3 (18%)
4	5IU	X	46	4	14,21,22	1.92	3 (21%)	16,30,33	3.97	3 (18%)
4	5IU	Y	50	4	14,21,22	1.42	3 (21%)	16,30,33	4.05	4 (25%)
4	5IU	X	2	4	14,21,22	1.67	3 (21%)	16,30,33	4.03	4 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	5IU	Y	2	4	14,21,22	1.90	3 (21%)	16,30,33	4.05	4 (25%)
4	5IU	Y	46	4	14,21,22	1.76	3 (21%)	16,30,33	3.97	3 (18%)
4	5IU	X	1	4	14,18,22	1.47	3 (21%)	16,26,33	4.07	4 (25%)
4	5IU	Y	7	4	14,21,22	1.87	3 (21%)	16,30,33	4.10	4 (25%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	5IU	X	50	4	-	3/4/21/22	0/2/2/2
4	5IU	Y	3	4	-	2/4/21/22	0/2/2/2
4	5IU	X	9	4	-	0/4/21/22	0/2/2/2
4	5IU	X	4	4	-	3/4/21/22	0/2/2/2
4	5IU	X	5	4	-	3/4/21/22	0/2/2/2
4	5IU	Y	9	4	-	0/4/21/22	0/2/2/2
4	5IU	X	7	4	-	1/4/21/22	0/2/2/2
4	5IU	Y	5	4	-	3/4/21/22	0/2/2/2
4	5IU	Y	4	4	-	3/4/21/22	0/2/2/2
4	5IU	X	3	4	-	2/4/21/22	0/2/2/2
4	5IU	Y	1	4	-	0/3/18/22	0/2/2/2
4	5IU	X	46	4	-	3/4/21/22	0/2/2/2
4	5IU	Y	50	4	-	3/4/21/22	0/2/2/2
4	5IU	X	2	4	-	0/4/21/22	0/2/2/2
4	5IU	Y	2	4	-	0/4/21/22	0/2/2/2
4	5IU	Y	46	4	-	3/4/21/22	0/2/2/2
4	5IU	X	1	4	-	0/3/18/22	0/2/2/2
4	5IU	Y	7	4	-	0/4/21/22	0/2/2/2

All (53) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	Y	5	5IU	C6-C5	-5.79	1.31	1.38
4	X	46	5IU	C6-C5	-5.44	1.31	1.38
4	Y	2	5IU	C6-C5	-5.43	1.31	1.38
4	Y	7	5IU	C6-C5	-4.97	1.32	1.38
4	X	7	5IU	C6-C5	-4.92	1.32	1.38
4	Y	46	5IU	C6-C5	-4.67	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	9	5IU	C6-C5	-4.40	1.33	1.38
4	X	3	5IU	C6-C5	-4.33	1.33	1.38
4	X	9	5IU	C5-I5	-4.25	2.02	2.10
4	Y	9	5IU	C6-C5	-4.22	1.33	1.38
4	Y	3	5IU	C6-C5	-4.18	1.33	1.38
4	Y	9	5IU	C5-I5	-4.13	2.02	2.10
4	X	5	5IU	C6-C5	-3.88	1.33	1.38
4	X	2	5IU	C6-C5	-3.86	1.33	1.38
4	X	4	5IU	C6-C5	-3.82	1.33	1.38
4	X	1	5IU	C5-I5	-3.67	2.03	2.10
4	Y	4	5IU	C6-C5	-3.62	1.33	1.38
4	Y	1	5IU	C6-C5	-3.53	1.34	1.38
4	Y	46	5IU	C4-N3	3.47	1.39	1.33
4	Y	1	5IU	C5-I5	-3.46	2.04	2.10
4	Y	5	5IU	C4-N3	3.39	1.38	1.33
4	X	46	5IU	C4-N3	3.38	1.38	1.33
4	Y	7	5IU	C4-N3	3.35	1.38	1.33
4	Y	50	5IU	C6-C5	-3.34	1.34	1.38
4	Y	2	5IU	C5-I5	-3.33	2.04	2.10
4	X	7	5IU	C4-N3	3.32	1.38	1.33
4	X	2	5IU	C5-I5	-3.31	2.04	2.10
4	Y	3	5IU	C4-N3	3.30	1.38	1.33
4	X	2	5IU	C4-N3	3.28	1.38	1.33
4	Y	4	5IU	C4-N3	3.25	1.38	1.33
4	X	5	5IU	C4-N3	3.24	1.38	1.33
4	Y	7	5IU	C5-I5	-3.23	2.04	2.10
4	X	50	5IU	C6-C5	-3.20	1.34	1.38
4	X	3	5IU	C4-N3	3.19	1.38	1.33
4	X	4	5IU	C5-I5	-3.13	2.04	2.10
4	X	4	5IU	C4-N3	3.06	1.38	1.33
4	X	7	5IU	C5-I5	-2.93	2.05	2.10
4	X	3	5IU	C5-I5	-2.92	2.05	2.10
4	X	1	5IU	C6-C5	-2.92	1.34	1.38
4	X	46	5IU	C5-I5	-2.90	2.05	2.10
4	Y	2	5IU	C4-N3	2.88	1.38	1.33
4	X	50	5IU	C5-I5	-2.85	2.05	2.10
4	Y	50	5IU	C4-N3	2.82	1.37	1.33
4	Y	3	5IU	C5-I5	-2.79	2.05	2.10
4	X	1	5IU	C4-N3	2.77	1.37	1.33
4	Y	9	5IU	C4-N3	2.72	1.37	1.33
4	Y	5	5IU	C5-I5	-2.72	2.05	2.10
4	Y	50	5IU	C5-I5	-2.71	2.05	2.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	Y	1	5IU	C4-N3	2.69	1.37	1.33
4	Y	46	5IU	C5-I5	-2.65	2.05	2.10
4	X	9	5IU	C4-N3	2.65	1.37	1.33
4	Y	4	5IU	C5-I5	-2.64	2.05	2.10
4	X	50	5IU	C4-N3	2.59	1.37	1.33

All (67) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	5	5IU	C4-N3-C2	16.07	128.71	115.14
4	X	1	5IU	C4-N3-C2	14.35	127.26	115.14
4	Y	50	5IU	C4-N3-C2	14.22	127.15	115.14
4	Y	4	5IU	C4-N3-C2	14.19	127.12	115.14
4	X	50	5IU	C4-N3-C2	14.13	127.07	115.14
4	X	3	5IU	C4-N3-C2	14.09	127.04	115.14
4	Y	1	5IU	C4-N3-C2	14.08	127.03	115.14
4	X	4	5IU	C4-N3-C2	14.07	127.02	115.14
4	Y	3	5IU	C4-N3-C2	13.96	126.93	115.14
4	Y	2	5IU	C4-N3-C2	13.96	126.92	115.14
4	X	2	5IU	C4-N3-C2	13.91	126.88	115.14
4	X	7	5IU	C4-N3-C2	13.85	126.83	115.14
4	Y	9	5IU	C4-N3-C2	13.82	126.81	115.14
4	Y	46	5IU	C4-N3-C2	13.78	126.77	115.14
4	X	9	5IU	C4-N3-C2	13.74	126.74	115.14
4	Y	7	5IU	C4-N3-C2	13.70	126.71	115.14
4	X	46	5IU	C4-N3-C2	13.55	126.58	115.14
4	Y	5	5IU	C4-N3-C2	13.46	126.50	115.14
4	X	46	5IU	C5-C4-N3	-6.74	114.26	123.27
4	Y	7	5IU	C5-C4-N3	-6.67	114.35	123.27
4	X	9	5IU	C5-C4-N3	-6.63	114.40	123.27
4	Y	9	5IU	C5-C4-N3	-6.60	114.43	123.27
4	X	7	5IU	C5-C4-N3	-6.58	114.46	123.27
4	Y	2	5IU	C5-C4-N3	-6.58	114.47	123.27
4	Y	5	5IU	C5-C4-N3	-6.57	114.47	123.27
4	X	4	5IU	C5-C4-N3	-6.51	114.56	123.27
4	X	3	5IU	C5-C4-N3	-6.50	114.57	123.27
4	Y	3	5IU	C5-C4-N3	-6.49	114.59	123.27
4	Y	4	5IU	C5-C4-N3	-6.46	114.62	123.27
4	X	2	5IU	C5-C4-N3	-6.46	114.62	123.27
4	Y	1	5IU	C5-C4-N3	-6.43	114.67	123.27
4	Y	50	5IU	C5-C4-N3	-6.41	114.69	123.27
4	Y	46	5IU	C5-C4-N3	-6.41	114.69	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	1	5IU	C5-C4-N3	-6.41	114.69	123.27
4	X	50	5IU	C5-C4-N3	-6.37	114.74	123.27
4	X	5	5IU	C5-C4-N3	-6.07	115.14	123.27
4	Y	5	5IU	C5-C6-N1	4.86	123.43	120.70
4	X	46	5IU	C5-C6-N1	4.56	123.26	120.70
4	Y	7	5IU	C5-C6-N1	4.31	123.12	120.70
4	Y	46	5IU	C5-C6-N1	4.17	123.04	120.70
4	X	7	5IU	C5-C6-N1	4.15	123.03	120.70
4	X	3	5IU	C5-C6-N1	4.01	122.95	120.70
4	Y	2	5IU	C5-C6-N1	4.00	122.95	120.70
4	Y	3	5IU	C5-C6-N1	3.89	122.88	120.70
4	X	2	5IU	C5-C6-N1	3.83	122.85	120.70
4	Y	4	5IU	C5-C6-N1	3.82	122.85	120.70
4	X	4	5IU	C5-C6-N1	3.60	122.72	120.70
4	Y	9	5IU	C5-C6-N1	3.55	122.70	120.70
4	X	9	5IU	C5-C6-N1	3.55	122.69	120.70
4	Y	7	5IU	C2'-C1'-N1	-3.34	106.57	114.27
4	Y	1	5IU	C5-C6-N1	3.30	122.55	120.70
4	Y	5	5IU	C2'-C1'-N1	-3.29	106.67	114.27
4	X	7	5IU	C2'-C1'-N1	-3.24	106.80	114.27
4	X	1	5IU	C5-C6-N1	3.17	122.48	120.70
4	Y	50	5IU	C5-C6-N1	3.07	122.42	120.70
4	X	50	5IU	C5-C6-N1	2.93	122.34	120.70
4	Y	2	5IU	C2'-C1'-N1	-2.60	108.27	114.27
4	X	2	5IU	C2'-C1'-N1	-2.59	108.30	114.27
4	X	50	5IU	C6-C5-I5	2.48	120.54	118.52
4	X	1	5IU	C6-C5-I5	2.44	120.50	118.52
4	Y	50	5IU	C6-C5-I5	2.40	120.47	118.52
4	X	5	5IU	C6-C5-I5	2.19	120.30	118.52
4	Y	3	5IU	C2'-C1'-N1	-2.17	109.27	114.27
4	X	5	5IU	C5-C6-N1	2.17	121.92	120.70
4	X	3	5IU	C2'-C1'-N1	-2.10	109.43	114.27
4	X	4	5IU	C6-C5-I5	2.10	120.23	118.52
4	Y	4	5IU	C6-C5-I5	2.06	120.20	118.52

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	X	50	5IU	O4'-C1'-N1-C6
4	X	4	5IU	O4'-C1'-N1-C6
4	X	5	5IU	O4'-C1'-N1-C6

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Mol	Chain	Res	Type	Atoms
4	X	5	5IU	C3'-C4'-C5'-O5'
4	X	5	5IU	O4'-C4'-C5'-O5'
4	X	7	5IU	O4'-C1'-N1-C6
4	Y	5	5IU	O4'-C1'-N1-C6
4	Y	5	5IU	C3'-C4'-C5'-O5'
4	Y	5	5IU	O4'-C4'-C5'-O5'
4	Y	4	5IU	O4'-C1'-N1-C6
4	X	46	5IU	O4'-C4'-C5'-O5'
4	X	46	5IU	C4'-C5'-O5'-P
4	Y	50	5IU	O4'-C1'-N1-C6
4	Y	46	5IU	O4'-C4'-C5'-O5'
4	Y	46	5IU	C4'-C5'-O5'-P
4	Y	3	5IU	C3'-C4'-C5'-O5'
4	Y	3	5IU	O4'-C4'-C5'-O5'
4	X	4	5IU	O4'-C4'-C5'-O5'
4	Y	4	5IU	O4'-C4'-C5'-O5'
4	X	3	5IU	C3'-C4'-C5'-O5'
4	X	3	5IU	O4'-C4'-C5'-O5'
4	X	46	5IU	C3'-C4'-C5'-O5'
4	Y	46	5IU	C3'-C4'-C5'-O5'
4	X	50	5IU	O4'-C4'-C5'-O5'
4	Y	50	5IU	O4'-C4'-C5'-O5'
4	X	50	5IU	C3'-C4'-C5'-O5'
4	Y	50	5IU	C3'-C4'-C5'-O5'
4	X	4	5IU	C3'-C4'-C5'-O5'
4	Y	4	5IU	C3'-C4'-C5'-O5'

There are no ring outliers.

17 monomers are involved in 104 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	X	50	5IU	1	0
4	Y	3	5IU	13	0
4	X	9	5IU	6	0
4	X	4	5IU	6	0
4	X	5	5IU	3	0
4	Y	9	5IU	8	0
4	X	7	5IU	6	0
4	Y	5	5IU	1	0
4	Y	4	5IU	4	0
4	X	3	5IU	12	0
4	Y	1	5IU	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	X	46	5IU	11	0
4	X	2	5IU	16	0
4	Y	2	5IU	14	0
4	Y	46	5IU	10	0
4	X	1	5IU	1	0
4	Y	7	5IU	9	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 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 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	B	1155/1180 (97%)	-0.22	28 (2%) 59 42	54, 111, 179, 259	0
1	E	1155/1180 (97%)	-0.15	33 (2%) 51 35	59, 121, 179, 215	0
2	C	1121/1122 (99%)	-0.39	6 (0%) 91 83	42, 90, 155, 226	0
2	F	1121/1122 (99%)	-0.26	14 (1%) 79 66	54, 107, 172, 222	0
3	D	547/608 (89%)	0.70	91 (16%) 1 1	71, 165, 222, 251	0
3	G	547/608 (89%)	-0.09	20 (3%) 41 27	55, 114, 188, 243	0
4	X	37/51 (72%)	0.64	5 (13%) 3 2	82, 168, 227, 236	0
4	Y	37/51 (72%)	0.87	3 (8%) 12 7	106, 168, 222, 247	0
All	All	5720/5922 (96%)	-0.13	200 (3%) 44 29	42, 112, 190, 259	0

All (200) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	464	GLN	14.1
3	D	465	LYS	10.4
3	D	463	GLN	8.2
1	E	305	PRO	7.2
3	D	72	VAL	7.1
1	B	876	GLN	6.7
3	D	76	GLY	6.6
3	D	398	LEU	5.7
3	D	446	GLU	5.6
3	D	77	GLU	5.6
1	E	935	VAL	5.5
3	D	67	LEU	5.5
1	E	306	ARG	5.2
3	D	388	GLN	4.8
3	D	361	PHE	4.8
3	D	360	ARG	4.6

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Mol	Chain	Res	Type	RSRZ
1	B	913	GLY	4.6
3	D	442	CYS	4.6
3	D	444	LEU	4.6
1	B	912	ARG	4.6
3	D	466	ARG	4.5
2	F	280	SER	4.5
1	E	885	THR	4.5
1	E	1149	GLU	4.4
3	D	429	ASP	4.4
2	F	281	GLU	4.3
1	E	920	LEU	4.3
3	D	247	GLN	4.3
3	D	526	ARG	4.2
2	C	280	SER	4.1
1	E	824	ARG	4.1
1	B	934	VAL	4.0
3	D	399	GLN	4.0
3	D	606	SER	4.0
3	D	71	CYS	3.9
3	D	427	GLU	3.9
3	D	319	ALA	3.9
3	G	247	GLN	3.9
1	E	934	VAL	3.9
3	D	428	PRO	3.8
1	B	305	PRO	3.8
1	B	932	ALA	3.8
3	G	257	ALA	3.8
3	G	340	GLY	3.7
1	B	880	VAL	3.7
2	F	860	GLU	3.7
3	D	362	GLY	3.7
3	G	76	GLY	3.6
3	G	79	GLN	3.6
2	C	281	GLU	3.6
1	E	933	SER	3.6
3	D	13	HIS	3.6
3	D	70	THR	3.6
3	D	528	PRO	3.5
3	D	359	TYR	3.5
1	B	261	ASN	3.5
1	E	913	GLY	3.5
1	E	827	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
3	D	575	ARG	3.4
3	D	431	ILE	3.4
3	D	68	LEU	3.4
3	D	194	GLY	3.4
1	B	884	SER	3.4
3	D	365	SER	3.3
3	D	432	ILE	3.3
3	G	1	MET	3.3
3	D	402	GLU	3.3
1	E	876	GLN	3.3
2	F	263	ARG	3.2
3	G	253	LEU	3.2
1	B	827	LYS	3.2
3	D	61	ASN	3.2
3	D	525	SER	3.2
3	D	460	GLN	3.2
3	D	341	THR	3.2
3	D	79	GLN	3.2
3	D	364	ASP	3.1
1	B	933	SER	3.1
1	B	915	GLY	3.1
3	D	196	ARG	3.1
1	B	1149	GLU	3.0
3	D	445	ARG	3.0
3	G	70	THR	3.0
1	E	938	PRO	3.0
1	B	241	GLY	3.0
3	D	383	LYS	3.0
2	F	156	GLU	2.9
1	E	814	SER	2.9
3	D	64	SER	2.9
2	F	260	LEU	2.9
3	D	603	LEU	2.9
1	B	898	GLY	2.8
1	B	914	HIS	2.8
3	D	340	GLY	2.8
1	B	874	ASP	2.8
3	D	224	PRO	2.8
1	B	935	VAL	2.8
3	D	384	THR	2.8
3	D	419	LEU	2.8
3	G	391	THR	2.8

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Mol	Chain	Res	Type	RSRZ
3	D	73	SER	2.8
3	D	418	TYR	2.7
3	D	219	ALA	2.7
3	D	535	ALA	2.7
2	F	262	THR	2.7
1	B	154	GLU	2.7
3	D	363	SER	2.7
3	D	604	PHE	2.7
1	B	826	ASP	2.7
3	D	218	LYS	2.7
3	D	416	GLY	2.7
3	D	550	ALA	2.6
2	F	352	GLY	2.6
2	F	936	GLN	2.6
1	B	1073	GLU	2.6
4	X	31	DT	2.6
3	D	248	PRO	2.6
1	E	825	GLY	2.6
3	D	65	HIS	2.6
1	B	654	LYS	2.6
3	D	401	GLY	2.6
3	D	252	ARG	2.6
3	D	400	SER	2.6
3	G	64	SER	2.6
3	D	387	GLN	2.5
1	E	912	ARG	2.5
3	D	193	ASP	2.5
3	D	369	GLN	2.5
1	E	887	GLU	2.5
3	D	131	GLU	2.5
1	E	3	ASP	2.5
3	G	71	CYS	2.5
3	G	256	HIS	2.5
2	F	775	ARG	2.4
1	E	582	SER	2.4
1	E	321	LEU	2.4
3	D	578	SER	2.4
3	G	65	HIS	2.4
3	D	246	ALA	2.4
1	E	823	ARG	2.4
3	D	403	ASP	2.4
3	D	394	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
3	G	361	PHE	2.4
1	E	921	MET	2.3
1	B	920	LEU	2.3
2	C	279	ASP	2.3
3	D	426	ALA	2.3
3	G	388	GLN	2.3
3	D	147	VAL	2.3
3	D	66	PRO	2.3
1	B	916	ILE	2.3
3	D	164	ARG	2.3
3	D	439	GLN	2.3
1	E	927	ASP	2.3
3	G	67	LEU	2.3
2	F	241	THR	2.3
3	G	128	HIS	2.3
1	E	813	CYS	2.3
3	D	462	MET	2.3
3	D	78	LEU	2.3
2	C	285	GLN	2.3
3	D	161	ALA	2.3
1	E	886	ALA	2.2
2	C	276	LEU	2.2
1	E	509	CYS	2.2
1	E	936	GLU	2.2
4	Y	51	DA	2.2
3	G	196	ARG	2.2
1	E	152	LEU	2.2
3	D	214	GLU	2.2
3	D	391	THR	2.2
3	G	73	SER	2.2
1	B	824	ARG	2.2
4	Y	32	DA	2.2
3	D	443	ALA	2.2
1	E	937	GLU	2.2
3	D	450	GLY	2.2
1	E	721	ASN	2.2
3	D	128	HIS	2.2
2	C	278	ARG	2.2
1	B	877	PRO	2.1
2	F	283	ALA	2.1
3	D	132	VAL	2.1
4	Y	31	DT	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	461	PHE	2.1
1	E	1015	ARG	2.1
1	B	1148	LYS	2.1
3	D	386	PHE	2.1
4	X	32	DA	2.1
2	F	953	THR	2.1
4	X	25	DA	2.1
3	G	167	SER	2.1
2	F	285	GLN	2.1
1	B	931	VAL	2.1
1	E	877	PRO	2.1
3	D	356	GLN	2.1
4	X	24	DT	2.1
4	X	33	DG	2.0
3	D	448	PRO	2.0
1	E	830	ASP	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	5IU	Y	1	17/21	0.03	1.16	234,234,300,300	0
4	5IU	Y	2	20/21	0.38	0.95	108,300,300,300	0
4	5IU	Y	5	20/21	0.42	0.72	108,300,300,300	0
4	5IU	Y	4	20/21	0.47	0.47	108,300,300,300	0
4	5IU	Y	3	20/21	0.57	0.65	108,300,300,300	0
4	5IU	X	2	20/21	0.61	0.35	108,164,275,275	0
4	5IU	Y	7	20/21	0.76	0.26	108,181,300,300	0
4	5IU	X	1	17/21	0.77	0.51	200,200,300,300	0
4	5IU	X	3	20/21	0.82	0.31	108,179,254,254	0
4	5IU	X	7	20/21	0.82	0.21	108,158,216,216	0
4	5IU	X	5	20/21	0.83	0.39	108,156,300,300	0
4	5IU	X	4	20/21	0.83	0.35	108,140,235,235	0
4	5IU	Y	50	20/21	0.84	0.25	108,170,300,300	0
4	5IU	Y	46	20/21	0.84	0.19	108,158,252,252	0
4	5IU	X	50	20/21	0.85	0.27	108,155,260,260	0
4	5IU	X	46	20/21	0.85	0.18	108,165,189,189	0
4	5IU	X	9	20/21	0.92	0.19	58,108,124,124	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	5IU	Y	9	20/21	0.93	0.16	102,108,148,148	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	CA	E	4000	1/1	0.91	0.37	108,108,108,108	0
5	CA	B	4000	1/1	0.95	0.58	108,108,108,108	0

6.5 Other polymers [i](#)

There are no such residues in this entry.