



## Full wwPDB EM Validation Report ⓘ

Nov 29, 2023 – 11:03 PM JST

PDB ID : 8I7O  
EMDB ID : EMD-35229  
Title : In situ structure of axonemal doublet microtubules in mouse sperm with 16-nm repeat  
Authors : Zhu, Y.; Yin, G.L.; Tai, L.H.; Sun, F.  
Deposited on : 2023-02-01  
Resolution : 4.50 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

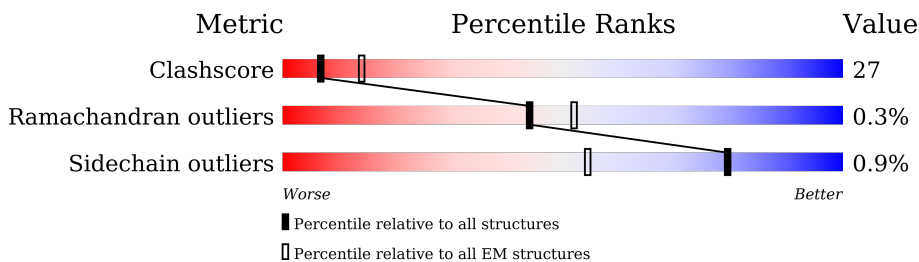
EMDB validation analysis : 0.0.1.dev70  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.50 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A2	418	
1	A3	418	
2	AE	438	
2	AG	438	
2	AI	438	
2	BE	438	
2	BG	438	
2	BI	438	

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Mol	Chain	Length	Quality of chain	
2	CG	438	11%	52% 47%
2	CI	438	13%	50% 48%
2	DE	438	17%	48% 51%
2	DG	438	16%	50% 50%
2	EE	438	16%	53% 45%
2	EG	438	18%	52% 47%
2	FE	438	23%	50% 49%
2	FG	438	25%	52% 47%
2	GE	438	25%	51% 47%
2	GG	438	32%	50% 49%
2	GI	438	32%	57% 42%
2	HE	438	32%	49% 50%
2	HG	438	32%	53% 46%
2	HI	438	29%	56% 43%
2	IE	438	28%	58% 41%
2	IG	438	25%	53% 46%
2	II	438	23%	52% 47%
2	JE	438	16%	49% 50%
2	JG	438	19%	55% 44%
2	KE	438	11%	47% 52%
2	KG	438	12%	51% 48%
2	KI	438	15%	55% 45%
2	LE	438	7%	55% 44%
2	LG	438	7%	50% 49%
2	LI	438	8%	56% 43%

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Mol	Chain	Length	Quality of chain
2	ME	438	8% 50% 50%
2	MG	438	5% 47% 51%
2	MI	438	8% 52% 47%
2	NE	438	53% 41% 58%
2	NG	438	41% 41% 58%
2	NI	438	61% 42% 56%
2	OE	438	49% 43% 55%
2	OG	438	50% 46% 53%
2	OI	438	50% 42% 57%
2	PE	438	46% 43% 56%
2	PG	438	46% 42% 56%
2	PI	438	42% 42% 57%
2	QE	438	44% 42% 57%
2	QG	438	42% 42% 57%
2	QI	438	40% 42% 58%
2	RE	438	43% 43% 56%
2	RG	438	45% 41% 58%
2	RI	438	42% 36% 63%
2	SE	438	37% 47% 53%
2	SG	438	35% 37% 61%
2	SI	438	34% 40% 59%
2	TG	438	34% 43% 55%
2	TI	438	34% 44% 55%
2	UE	438	34% 43% 56%
2	UG	438	28% 39% 59%

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Mol	Chain	Length	Quality of chain	
2	VE	438	22%	57%
2	VG	438	21%	58%
2	WE	438	18%	60%
2	WG	438	19%	61%
2	WI	438	18%	63%
3	AF	427	49%	50%
3	AH	427	48%	52%
3	BF	427	8%	46%
3	BH	427	6%	48%
3	CF	427	9%	47%
3	CH	427	8%	46%
3	CJ	427	12%	47%
3	DD	427	14%	47%
3	DF	427	11%	51%
3	DH	427	12%	45%
3	ED	427	25%	42%
3	EF	427	15%	48%
3	EH	427	22%	44%
3	FD	427	32%	41%
3	FF	427	18%	44%
3	FH	427	22%	41%
3	GD	427	45%	45%
3	GF	427	23%	48%
3	GH	427	29%	47%
3	HD	427	52%	41%

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Mol	Chain	Length	Quality of chain
3	HF	427	33% 54% 46%
3	HH	427	27% 52% 47%
3	IF	427	23% 51% 49%
3	IH	427	22% 52% 48%
3	JD	427	17% 53% 46%
3	JF	427	17% 55% 45%
3	JH	427	18% 56% 43%
3	KD	427	9% 55% 45%
3	KF	427	8% 56% 43%
3	KH	427	9% 55% 45%
3	LD	427	8% 53% 46%
3	LF	427	6% 50% 49%
3	LH	427	6% 52% 47%
3	MF	427	7% 54% 46%
3	MH	427	• 45% 54%
3	ND	427	61% 52% 47%
3	NF	427	37% 47% 53%
3	NH	427	41% 47% 52%
3	OD	427	63% 53% 47%
3	OF	427	45% 53% 46%
3	OH	427	44% 42% 57%
3	PF	427	39% 46% 53%
3	PH	427	38% 46% 53%
3	QF	427	43% 44% 56%
3	QH	427	40% 46% 54%

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Mol	Chain	Length	Quality of chain
3	RF	427	43% 42% 58%
3	RH	427	44% 43% 56%
3	RJ	427	39% 46% 54%
3	SF	427	33% 44% 56%
3	SH	427	34% 43% 56%
3	SJ	427	37% 41% 58%
3	TF	427	28% 46% 54%
3	TH	427	33% 50% 49%
3	TJ	427	30% 49% 51%
3	UD	427	29% 48% 52%
3	UF	427	24% 43% 56%
3	UH	427	27% 48% 52%
3	VD	427	15% 43% 56%
3	VF	427	17% 45% 55%
3	VH	427	14% 44% 56%
3	WF	427	12% 44% 55%
3	WH	427	13% 50% 49%
4	B2	430	40% 18% 42%
4	B3	430	46% 34% 20%
4	B7	430	53% 33% 13%
4	B8	430	20% 21% 59%
5	C2	490	16% 13% 71%
5	C3	490	43% 32% 25%
5	C4	490	7% 9% 83%
5	C7	490	32% 18% 50%

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Mol	Chain	Length	Quality of chain
5	C8	490	39% 24% 36%
5	Cb	490	53% 47%
5	Cc	490	54% 46%
6	D2	447	11% 5% 84%
6	D3	447	55% 33% 12%
6	D4	447	19% 11% 70%
6	D7	447	9% 13% 77%
6	D8	447	52% 35% 13%
6	D9	447	14% 9% 77%
7	E2	206	20% 54% 34% 9%
7	E3	206	23% 7% 69%
8	F2	557	34% 24% 42%
8	F3	557	6% 23% 18% 58%
8	F6	557	20% 35% 19% 45%
8	F7	557	16% 24% 20% 56%
8	Fa	557	27% 38% 62%
8	Fb	557	40% 57% 42%
8	Fc	557	5% 95%
8	F1	557	23% 59% 40%
9	G1	648	21% 47% 31% 21%
9	G2	648	19% 46% 30% 24%
10	G5	750	19% 55% 43%
11	H3	319	9% 18% 24% 55%
11	H4	319	10% 14% 24% 57%
12	I2	200	10% 8% 81%

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Mol	Chain	Length	Quality of chain
12	I3	200	12% 7% 81%
13	J2	189	22% 53% 37% 10%
13	J3	189	23% 55% 35% 10%
14	K2	499	7% 17% 24% 58%
14	K3	499	14% 40% 43% 14%
14	K4	499	15% 21% 12% 66%
15	L2	255	24% 40% 50% 7%
15	L3	255	24% 46% 45% 7%
16	M2	141	9% 18% 26% 56%
16	M3	141	13% 23% 21% 56%
17	N2	168	8% 17% 23% 60%
17	N3	168	7% 20% 20% 60%
18	O1	189	25% 30% 26% 44%
18	O2	189	12% 23% 31% 44%
19	P1	620	39% 44% 53% 7%
19	P2	620	35% 41% 56% 7%
20	Q1	1516	8% 5% 7% 88%
20	Q2	1516	8% 7% 88%
21	R2	283	8% 11% 14% 74%
22	XC	193	34% 61% 7%
22	XD	193	39% 55% 7%
22	XE	193	32% 64% 7%
23	XJ	241	17% 34% 39% 26%
23	XK	241	7% 32% 41% 26%
23	XL	241	20% 34% 39% 26%

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Mol	Chain	Length	Quality of chain	
24	YI	168	98%	64%
24	YJ	168	99%	55%
24	YK	168	99%	52%
24	YL	168	97%	50%
24	YM	168	97%	51%
24	YN	168	93%	58%

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
25	GTP	BF	501	-	-	X	-
25	GTP	BG	501	-	-	X	-
25	GTP	BH	501	-	-	X	-
25	GTP	DE	501	-	-	X	-
25	GTP	DG	501	-	-	X	-
25	GTP	EE	501	-	-	X	-
25	GTP	EG	501	-	-	X	-
25	GTP	FD	501	-	-	X	-
25	GTP	FE	501	-	-	X	-
25	GTP	FF	502	-	-	X	-
25	GTP	HD	501	-	-	X	-
25	GTP	HI	501	-	-	X	-
25	GTP	IH	501	-	-	X	-
25	GTP	JE	501	-	-	X	-
25	GTP	JF	501	-	-	X	-
25	GTP	KF	501	-	-	X	-
25	GTP	LE	501	-	-	X	-
25	GTP	MF	501	-	-	X	-
25	GTP	MG	501	-	-	X	-
25	GTP	OF	501	-	-	X	-
25	GTP	PE	501	-	-	X	-
25	GTP	PI	501	-	-	X	-
25	GTP	QE	501	-	-	X	-
25	GTP	QH	501	-	-	X	-
25	GTP	QI	501	-	-	X	-
25	GTP	RF	501	-	-	X	-
25	GTP	RH	501	-	-	X	-

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<b>Mol</b>	<b>Type</b>	<b>Chain</b>	<b>Res</b>	<b>Chirality</b>	<b>Geometry</b>	<b>Clashes</b>	<b>Electron density</b>
25	GTP	RJ	501	-	-	X	-
25	GTP	SG	501	-	-	X	-
25	GTP	SH	501	-	-	X	-
25	GTP	UF	501	-	-	X	-
25	GTP	WG	501	-	-	X	-
25	GTP	WH	501	-	-	X	-

## 2 Entry composition [i](#)

There are 25 unique types of molecules in this entry. The entry contains 540760 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A2	353	Total	C	N	O	S	0	0
			2884	1784	520	570	10		
1	A3	211	Total	C	N	O	S	0	0
			1745	1083	309	351	2		

- Molecule 2 is a protein called Detyrosinated tubulin alpha-3 chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	AE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	AG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	AI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	BE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	BG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	BI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	CG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	CI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	DE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	DG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	EE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	EG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	FE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	FG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	GE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	GG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	GI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	HE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	HG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	HI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	IE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	IG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	II	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	JE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	JG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	KE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	KG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	KI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	LE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	LG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	LI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	ME	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	MG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	MI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	NE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	NG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	NI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	OE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	OG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	OI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	PE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	PG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	PI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	QE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	QG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	QI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	RE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	RG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	RI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	SE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	SG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	SI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	TG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	TI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	UE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	UG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	VE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	VG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	WE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	WG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
2	WI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

- Molecule 3 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	ED	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	FD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	MH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	ND	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	UF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

- Molecule 4 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	B2	250	Total	C	N	O	S	0	0
			2036	1262	369	396	9		
4	B3	343	Total	C	N	O	S	0	0
			2816	1737	516	553	10		
4	B7	376	Total	C	N	O	S	0	0
			3082	1900	566	603	13		
4	B8	177	Total	C	N	O	S	0	0
			1463	905	269	280	9		

- Molecule 5 is a protein called Tektin-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	C2	142	Total	C	N	O	S	0	0
			1175	716	221	236	2		
5	C3	366	Total	C	N	O	S	0	0
			2978	1825	551	588	14		
5	C4	81	Total	C	N	O	S	0	0
			670	413	122	132	3		
5	C7	243	Total	C	N	O	S	0	0
			1983	1212	368	396	7		
5	C8	312	Total	C	N	O	S	0	0
			2534	1561	461	499	13		
5	Cb	262	Total	C	N	O	S	0	0
			2125	1303	391	418	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Cc	265	Total	C	N	O	S	0	0
			2159	1317	403	431	8		

- Molecule 6 is a protein called Tektin-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	D2	72	Total	C	N	O	S	0	0
			583	359	110	113	1		
6	D3	394	Total	C	N	O	S	0	0
			3225	1978	592	639	16		
6	D4	132	Total	C	N	O	S	0	0
			1080	662	203	209	6		
6	D7	101	Total	C	N	O	S	0	0
			836	514	159	160	3		
6	D8	388	Total	C	N	O	S	0	0
			3192	1952	596	628	16		
6	D9	102	Total	C	N	O	S	0	0
			849	518	153	175	3		

- Molecule 7 is a protein called Tektin bundle-interacting protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	E2	187	Total	C	N	O	S	0	0
			1558	992	295	265	6		
7	E3	63	Total	C	N	O	S	0	0
			519	334	97	86	2		

- Molecule 8 is a protein called Tektin-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	F2	322	Total	C	N	O	S	0	0
			2640	1638	477	504	21		
8	F3	234	Total	C	N	O	S	0	0
			1927	1182	357	375	13		
8	F6	305	Total	C	N	O	S	0	0
			2503	1535	464	487	17		
8	F7	245	Total	C	N	O	S	0	0
			2003	1244	363	378	18		
8	Fa	214	Total	C	N	O	S	0	0
			1746	1090	311	328	17		
8	Fb	321	Total	C	N	O	S	0	0
			2634	1623	484	509	18		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	Fc	26	Total	C	N	O		0	0
			224	136	46	42			
8	F1	332	Total	C	N	O	S	0	0
			2721	1685	493	523	20		

- Molecule 9 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	G1	510	Total	C	N	O	S	0	0
			4192	2708	704	763	17		
9	G2	495	Total	C	N	O	S	0	0
			4081	2634	687	743	17		

- Molecule 10 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	G5	747	Total	C	N	O	S	0	0
			6169	3983	1027	1130	29		

- Molecule 11 is a protein called Protein FAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	H3	145	Total	C	N	O	S	0	0
			1185	759	209	211	6		
11	H4	137	Total	C	N	O	S	0	0
			1121	718	198	199	6		

- Molecule 12 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	I2	38	Total	C	N	O	S	0	0
			298	192	47	58	1		
12	I3	38	Total	C	N	O	S	0	0
			298	192	47	58	1		

- Molecule 13 is a protein called Dual specificity phosphatase 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	J2	171	Total	C	N	O	S	0	0
			1378	886	230	253	9		
13	J3	171	Total	C	N	O	S	0	0
			1378	886	230	253	9		



- Molecule 14 is a protein called Coiled-coil domain-containing protein 105.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	K2	209	Total	C	N	O	S	0	0
			1722	1070	336	303	13		
14	K3	428	Total	C	N	O	S	0	0
			3465	2147	674	618	26		
14	K4	169	Total	C	N	O	S	0	0
			1327	825	261	232	9		

- Molecule 15 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	L2	236	Total	C	N	O	S	0	0
			1929	1231	340	349	9		
15	L3	236	Total	C	N	O	S	0	0
			1929	1231	340	349	9		

- Molecule 16 is a protein called Testis-expressed protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	M2	62	Total	C	N	O	S	0	0
			510	327	89	89	5		
16	M3	62	Total	C	N	O	S	0	0
			510	327	89	89	5		

- Molecule 17 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	N2	68	Total	C	N	O	S	0	0
			535	335	95	105			
17	N3	68	Total	C	N	O	S	0	0
			535	335	95	105			

- Molecule 18 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
18	O1	105	Total	C	N	O	S	0	0
			825	524	148	152	1		
18	O2	105	Total	C	N	O	S	0	0
			825	524	148	152	1		

- Molecule 19 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	P1	608	Total	C	N	O	S	0	0
			4696	2970	819	875	32		
19	P2	608	Total	C	N	O	S	0	0
			4696	2970	819	875	32		

- Molecule 20 is a protein called EF-hand calcium-binding domain-containing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	Q1	178	Total	C	N	O	S	0	0
			1473	941	254	268	10		
20	Q2	178	Total	C	N	O	S	0	0
			1473	941	254	268	10		

- Molecule 21 is a protein called Cilia and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	R2	73	Total	C	N	O	S	0	0
			597	367	118	109	3		

- Molecule 22 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	XC	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
22	XD	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		
22	XE	185	Total	C	N	O	S	0	0
			1540	990	269	274	7		

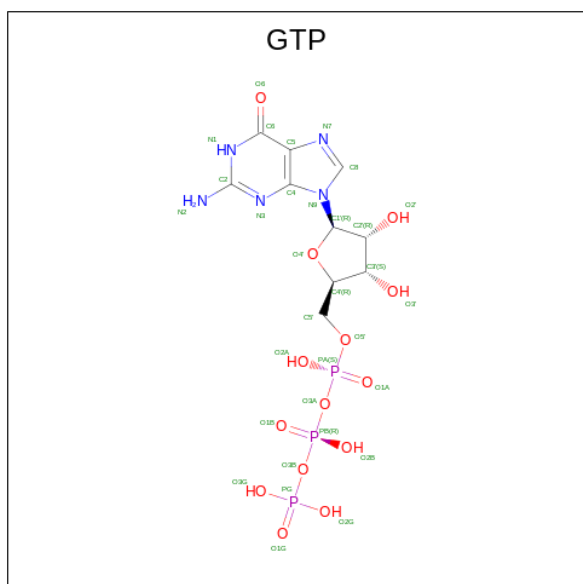
- Molecule 23 is a protein called Parkin coregulated gene protein homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	XJ	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
23	XK	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
23	XL	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		

- Molecule 24 is a protein called Sperm acrosome-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	YI	168	Total 1365	C 856	N 244	O 254	S 11	0	0
24	YJ	168	Total 1365	C 856	N 244	O 254	S 11	0	0
24	YK	168	Total 1365	C 856	N 244	O 254	S 11	0	0
24	YL	168	Total 1365	C 856	N 244	O 254	S 11	0	0
24	YM	168	Total 1365	C 856	N 244	O 254	S 11	0	0
24	YN	168	Total 1365	C 856	N 244	O 254	S 11	0	0

- Molecule 25 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula:  $C_{10}H_{16}N_5O_{14}P_3$ ).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	AE	1	Total 32	C 10	N 5	O 14	P 3	0
25	AF	1	Total 32	C 10	N 5	O 14	P 3	0
25	AG	1	Total 32	C 10	N 5	O 14	P 3	0
25	AH	1	Total 32	C 10	N 5	O 14	P 3	0
25	AI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	BE	1	Total 32	C 10	N 5	O 14	P 3	0
25	BF	1	Total 32	C 10	N 5	O 14	P 3	0
25	BG	1	Total 32	C 10	N 5	O 14	P 3	0
25	BH	1	Total 32	C 10	N 5	O 14	P 3	0
25	BI	1	Total 32	C 10	N 5	O 14	P 3	0
25	CF	1	Total 32	C 10	N 5	O 14	P 3	0
25	CG	1	Total 32	C 10	N 5	O 14	P 3	0
25	CH	1	Total 32	C 10	N 5	O 14	P 3	0
25	CI	1	Total 32	C 10	N 5	O 14	P 3	0
25	CJ	1	Total 32	C 10	N 5	O 14	P 3	0
25	DD	1	Total 32	C 10	N 5	O 14	P 3	0
25	DE	1	Total 32	C 10	N 5	O 14	P 3	0
25	DF	1	Total 32	C 10	N 5	O 14	P 3	0
25	DG	1	Total 32	C 10	N 5	O 14	P 3	0
25	DH	1	Total 32	C 10	N 5	O 14	P 3	0
25	ED	1	Total 32	C 10	N 5	O 14	P 3	0
25	EE	1	Total 32	C 10	N 5	O 14	P 3	0
25	EF	1	Total 32	C 10	N 5	O 14	P 3	0
25	EG	1	Total 32	C 10	N 5	O 14	P 3	0
25	EH	1	Total 32	C 10	N 5	O 14	P 3	0
25	FD	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	FE	1	Total 32	C 10	N 5	O 14	P 3	0
25	FF	1	Total 32	C 10	N 5	O 14	P 3	0
25	FF	1	Total 32	C 10	N 5	O 14	P 3	0
25	FH	1	Total 32	C 10	N 5	O 14	P 3	0
25	GD	1	Total 32	C 10	N 5	O 14	P 3	0
25	GE	1	Total 32	C 10	N 5	O 14	P 3	0
25	GF	1	Total 32	C 10	N 5	O 14	P 3	0
25	GG	1	Total 32	C 10	N 5	O 14	P 3	0
25	GH	1	Total 32	C 10	N 5	O 14	P 3	0
25	GH	1	Total 32	C 10	N 5	O 14	P 3	0
25	HD	1	Total 32	C 10	N 5	O 14	P 3	0
25	HE	1	Total 32	C 10	N 5	O 14	P 3	0
25	HF	1	Total 32	C 10	N 5	O 14	P 3	0
25	HG	1	Total 32	C 10	N 5	O 14	P 3	0
25	HH	1	Total 32	C 10	N 5	O 14	P 3	0
25	HI	1	Total 32	C 10	N 5	O 14	P 3	0
25	IE	1	Total 32	C 10	N 5	O 14	P 3	0
25	IF	1	Total 32	C 10	N 5	O 14	P 3	0
25	IG	1	Total 32	C 10	N 5	O 14	P 3	0
25	IH	1	Total 32	C 10	N 5	O 14	P 3	0
25	II	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	JD	1	Total 32	C 10	N 5	O 14	P 3	0
25	JE	1	Total 32	C 10	N 5	O 14	P 3	0
25	JF	1	Total 32	C 10	N 5	O 14	P 3	0
25	JG	1	Total 32	C 10	N 5	O 14	P 3	0
25	JH	1	Total 32	C 10	N 5	O 14	P 3	0
25	KD	1	Total 32	C 10	N 5	O 14	P 3	0
25	KE	1	Total 32	C 10	N 5	O 14	P 3	0
25	KF	1	Total 32	C 10	N 5	O 14	P 3	0
25	KG	1	Total 32	C 10	N 5	O 14	P 3	0
25	KH	1	Total 32	C 10	N 5	O 14	P 3	0
25	KI	1	Total 32	C 10	N 5	O 14	P 3	0
25	LD	1	Total 32	C 10	N 5	O 14	P 3	0
25	LE	1	Total 32	C 10	N 5	O 14	P 3	0
25	LF	1	Total 32	C 10	N 5	O 14	P 3	0
25	LG	1	Total 32	C 10	N 5	O 14	P 3	0
25	LH	1	Total 32	C 10	N 5	O 14	P 3	0
25	LI	1	Total 32	C 10	N 5	O 14	P 3	0
25	ME	1	Total 32	C 10	N 5	O 14	P 3	0
25	MF	1	Total 32	C 10	N 5	O 14	P 3	0
25	MG	1	Total 32	C 10	N 5	O 14	P 3	0
25	MH	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	MI	1	Total 32	C 10	N 5	O 14	P 3	0
25	ND	1	Total 32	C 10	N 5	O 14	P 3	0
25	NE	1	Total 32	C 10	N 5	O 14	P 3	0
25	NF	1	Total 32	C 10	N 5	O 14	P 3	0
25	NG	1	Total 32	C 10	N 5	O 14	P 3	0
25	NH	1	Total 32	C 10	N 5	O 14	P 3	0
25	NI	1	Total 32	C 10	N 5	O 14	P 3	0
25	OD	1	Total 32	C 10	N 5	O 14	P 3	0
25	OE	1	Total 32	C 10	N 5	O 14	P 3	0
25	OF	1	Total 32	C 10	N 5	O 14	P 3	0
25	OG	1	Total 32	C 10	N 5	O 14	P 3	0
25	OH	1	Total 32	C 10	N 5	O 14	P 3	0
25	OI	1	Total 32	C 10	N 5	O 14	P 3	0
25	PE	1	Total 32	C 10	N 5	O 14	P 3	0
25	PF	1	Total 32	C 10	N 5	O 14	P 3	0
25	PG	1	Total 32	C 10	N 5	O 14	P 3	0
25	PH	1	Total 32	C 10	N 5	O 14	P 3	0
25	PI	1	Total 32	C 10	N 5	O 14	P 3	0
25	QE	1	Total 32	C 10	N 5	O 14	P 3	0
25	QF	1	Total 32	C 10	N 5	O 14	P 3	0
25	QG	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	QH	1	Total 32	C 10	N 5	O 14	P 3	0
25	QI	1	Total 32	C 10	N 5	O 14	P 3	0
25	RE	1	Total 32	C 10	N 5	O 14	P 3	0
25	RF	1	Total 32	C 10	N 5	O 14	P 3	0
25	RG	1	Total 32	C 10	N 5	O 14	P 3	0
25	RH	1	Total 32	C 10	N 5	O 14	P 3	0
25	RI	1	Total 32	C 10	N 5	O 14	P 3	0
25	RJ	1	Total 32	C 10	N 5	O 14	P 3	0
25	SE	1	Total 32	C 10	N 5	O 14	P 3	0
25	SF	1	Total 32	C 10	N 5	O 14	P 3	0
25	SG	1	Total 32	C 10	N 5	O 14	P 3	0
25	SH	1	Total 32	C 10	N 5	O 14	P 3	0
25	SI	1	Total 32	C 10	N 5	O 14	P 3	0
25	SJ	1	Total 32	C 10	N 5	O 14	P 3	0
25	TF	1	Total 32	C 10	N 5	O 14	P 3	0
25	TG	1	Total 32	C 10	N 5	O 14	P 3	0
25	TH	1	Total 32	C 10	N 5	O 14	P 3	0
25	TI	1	Total 32	C 10	N 5	O 14	P 3	0
25	TJ	1	Total 32	C 10	N 5	O 14	P 3	0
25	UD	1	Total 32	C 10	N 5	O 14	P 3	0
25	UE	1	Total 32	C 10	N 5	O 14	P 3	0

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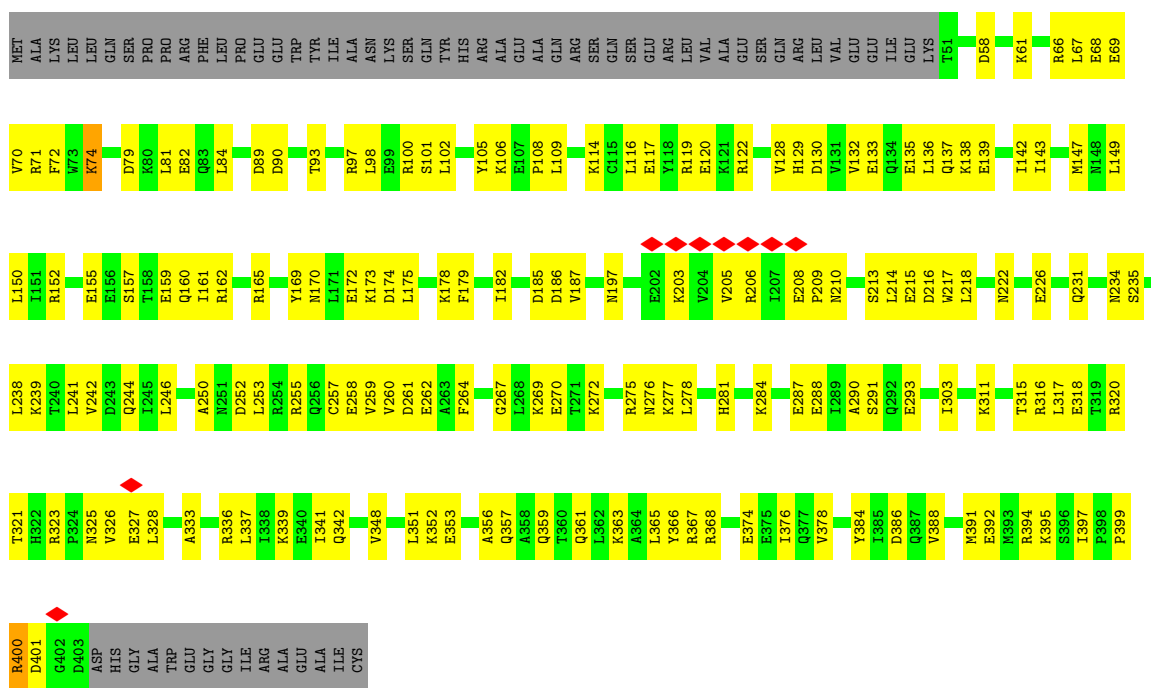
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
25	UF	1	Total 32	C 10	N 5	O 14	P 3	0
25	UG	1	Total 32	C 10	N 5	O 14	P 3	0
25	UH	1	Total 32	C 10	N 5	O 14	P 3	0
25	VD	1	Total 32	C 10	N 5	O 14	P 3	0
25	VE	1	Total 32	C 10	N 5	O 14	P 3	0
25	VF	1	Total 32	C 10	N 5	O 14	P 3	0
25	VG	1	Total 32	C 10	N 5	O 14	P 3	0
25	VH	1	Total 32	C 10	N 5	O 14	P 3	0
25	WE	1	Total 32	C 10	N 5	O 14	P 3	0
25	WF	1	Total 32	C 10	N 5	O 14	P 3	0
25	WG	1	Total 32	C 10	N 5	O 14	P 3	0
25	WH	1	Total 32	C 10	N 5	O 14	P 3	0
25	WI	1	Total 32	C 10	N 5	O 14	P 3	0

### 3 Residue-property plots i


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

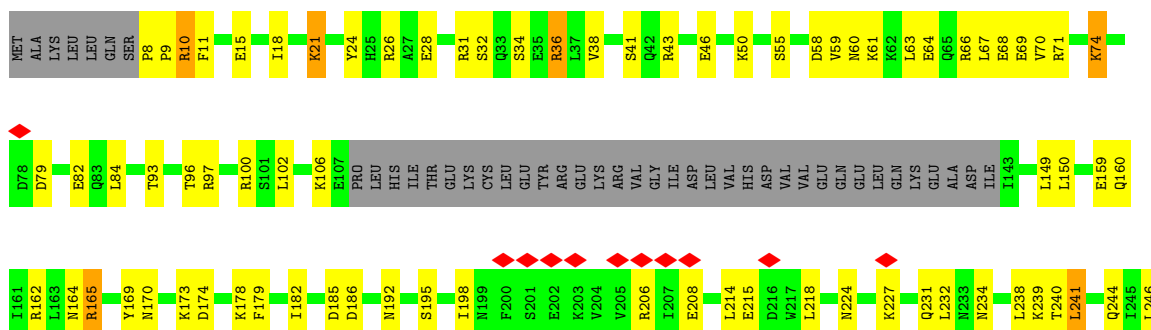
- Molecule 1: Tektin-1

Chain A2: 



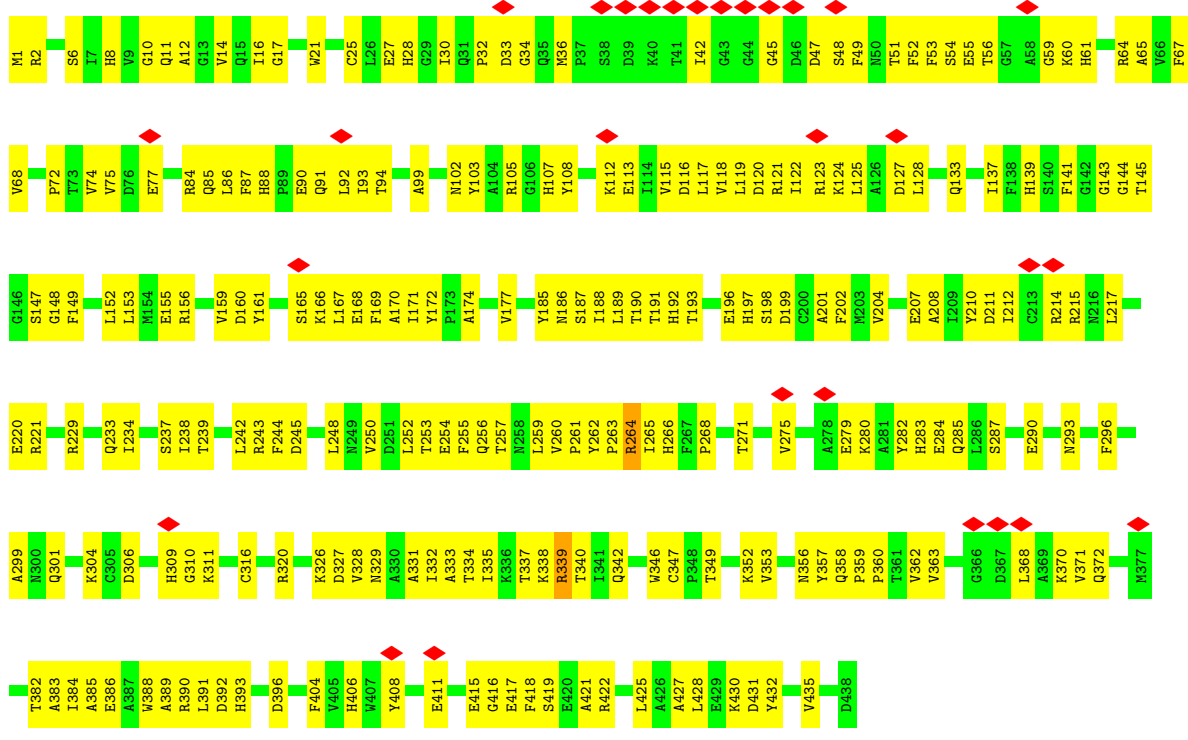
- Molecule 1: Tektin-1

Chain A3: 

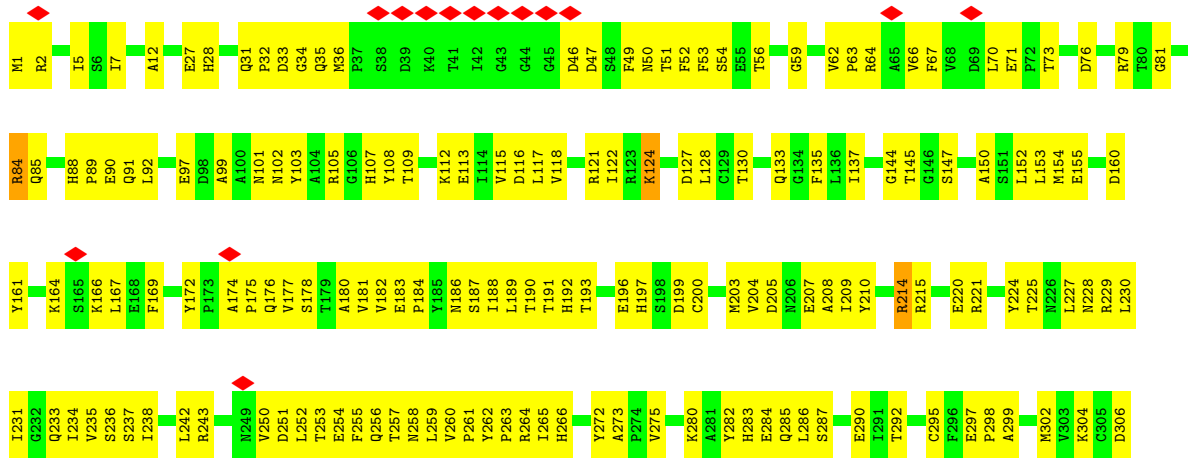


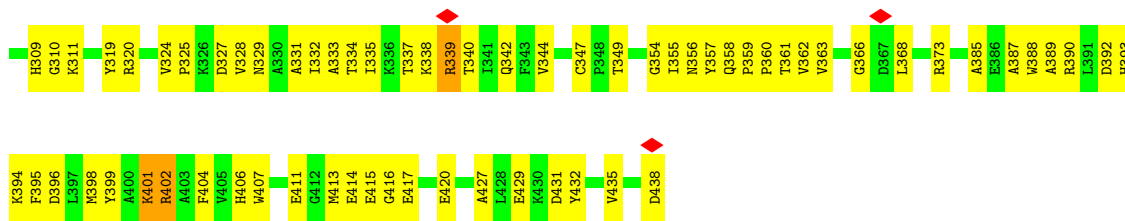
L2583	ARG	ALA
ARG	HIS	HIS
GLN	THR	THR
GLN	ARG	ARG
CYS	LEU	LEU
GLU	GLU	GLU
VAL	THR	THR
VAL	ARG	ARG
ASP	THR	THR
ASP	THR	THR
GLU	HIS	HIS
ALA	ALA	ALA
ALA	PRO	PRO
PHE	ASN	ASN
ILE	ASN	ASN
ASN	VAL	VAL
ASN	GLU	GLU
GLY	GLU	GLU
LEU	LEU	LEU
LYS	CYS	CYS
LYS	LYS	LYS
THR	ASP	ASP
LYS	ILE	ILE
ASP	ALA	ALA
ALA	GLN	GLN
ARG	ARG	ARG
ARG	TYR	TYR
ASN	ARG	ARG
ASN	SER	SER
LYS	LEU	LEU
LEU	ILE	ILE
ALA	LEU	LEU
ALA	LYS	LYS
ASP	ASP	ASP
ASP	ASP	ASP
VAL	HIS	HIS
VAL	GLY	GLY
MET	ALA	ALA
GLU	ASN	ASN
GLU	VAL	VAL
GLU	TRP	TRP
ILE	GLU	GLU
ALA	ALA	ALA
ALA	ARG	ARG
SER	LEU	LEU
GLN	LYS	LYS
GLN	ARG	ARG
LYS	ALA	ALA
ASN	LEU	LEU
ASN	GLN	GLN
ALA	LEU	LEU
ALA	LYS	LYS
ILE	ALA	ALA
ILE	ALA	ALA
ALA	ALA	ALA
LEU	LEU	LEU
LEU	THR	THR
GLN	GLN	GLN
ASN	ASN	ASN
ALA	ALA	ALA
ALA	GLN	GLN
MET	MET	MET
ILE	ILE	ILE
ILE	ALA	ALA
CYS	CYS	CYS

• Molecule 2: Detyrosinated tubulin alpha-3 chain

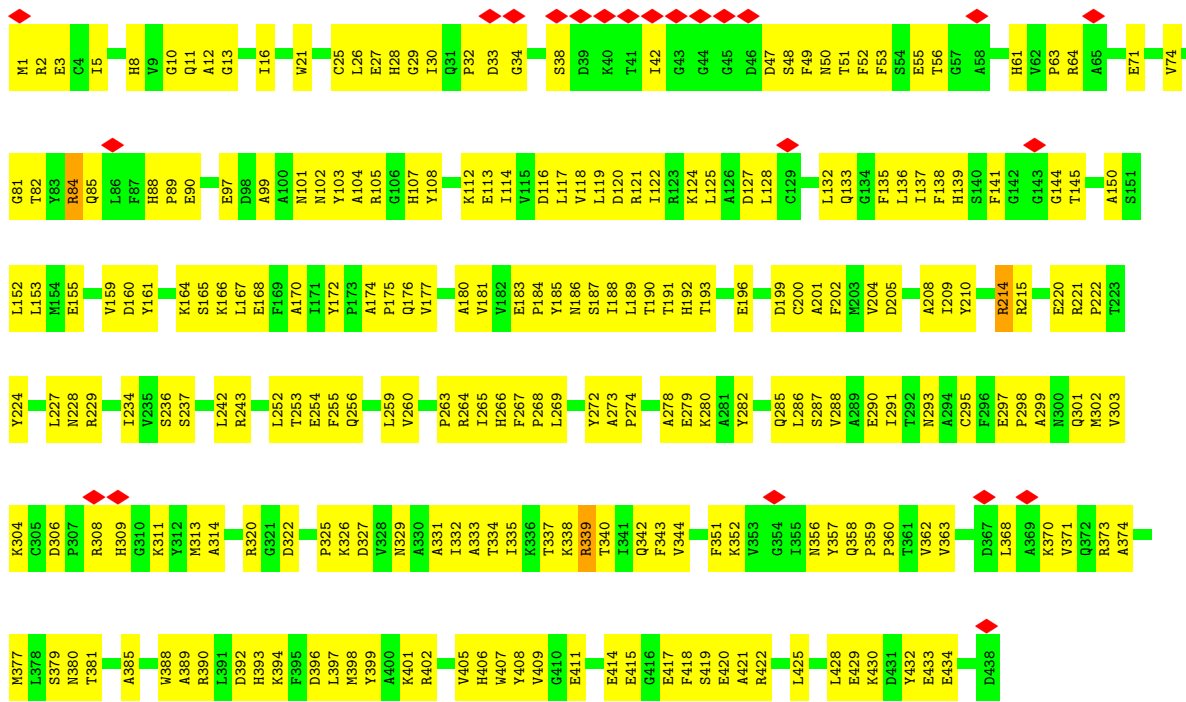


• Molecule 2: Detyrosinated tubulin alpha-3 chain

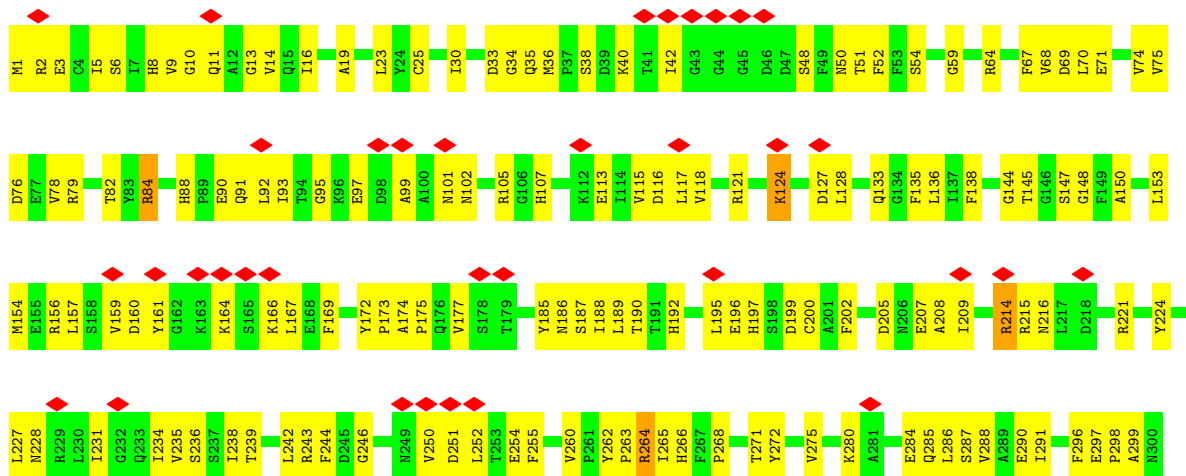


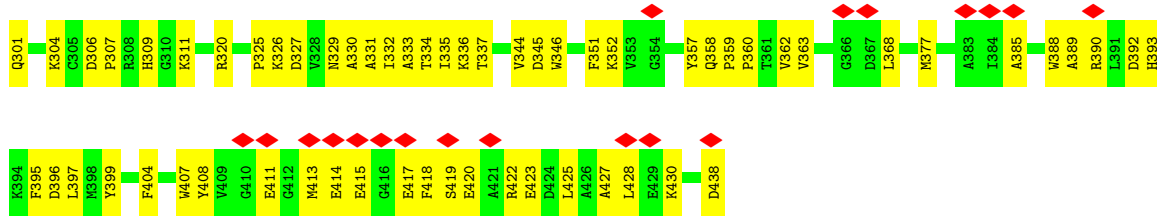


• Molecule 2: Detyrosinated tubulin alpha-3 chain

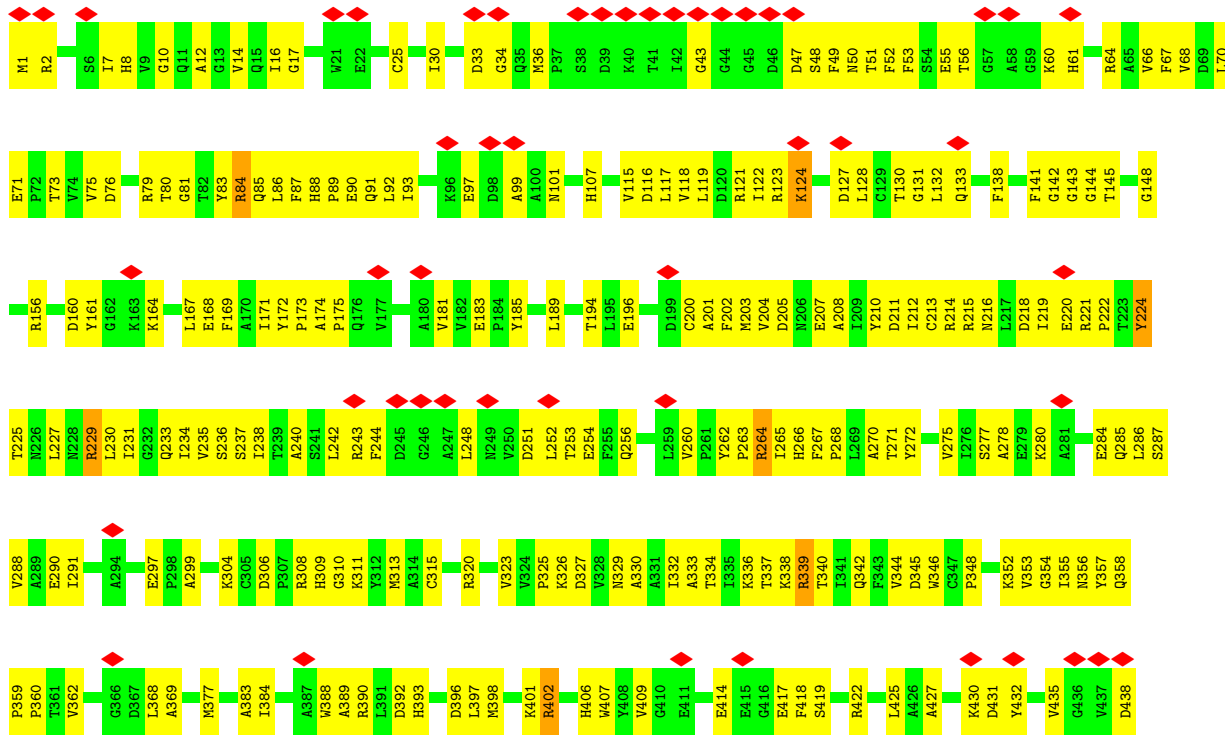


• Molecule 2: Detyrosinated tubulin alpha-3 chain

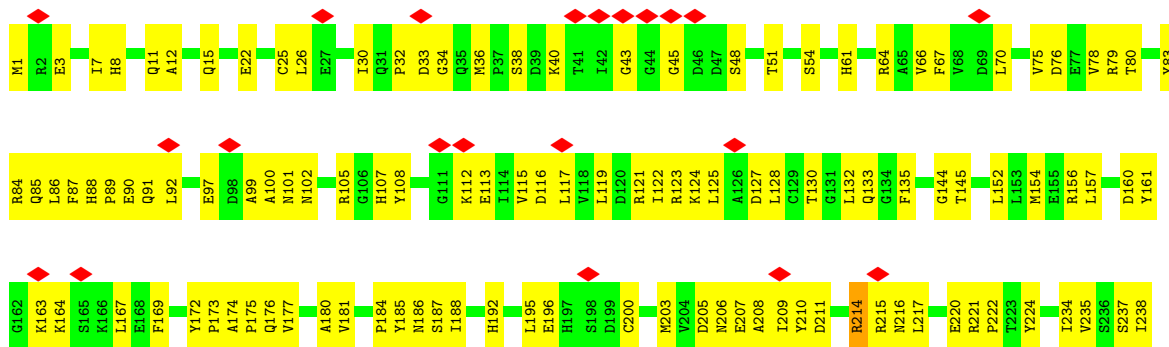


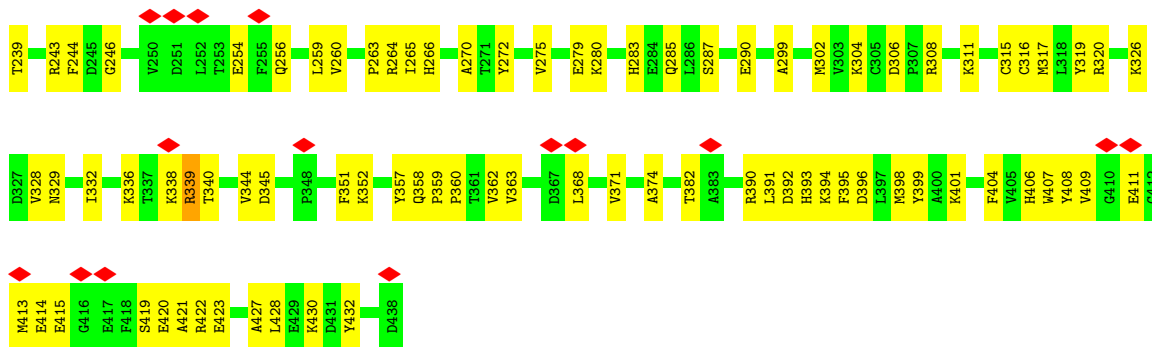


• Molecule 2: Detyrosinated tubulin alpha-3 chain

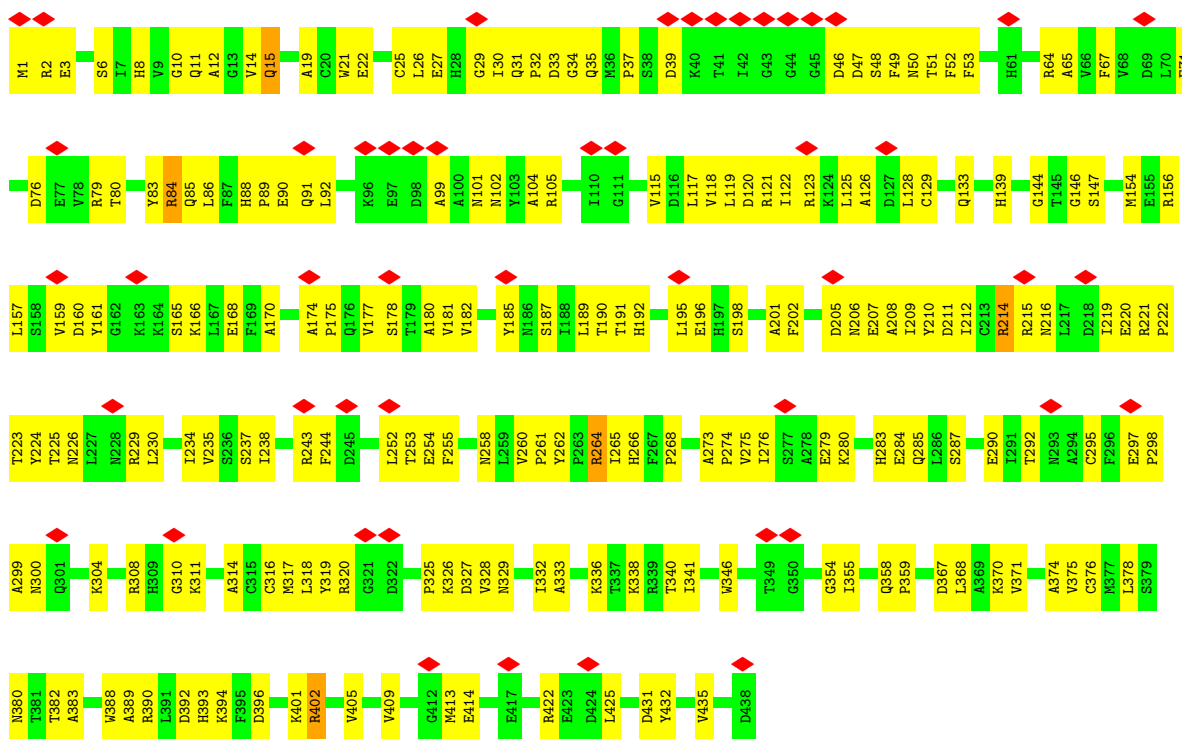


• Molecule 2: Detyrosinated tubulin alpha-3 chain

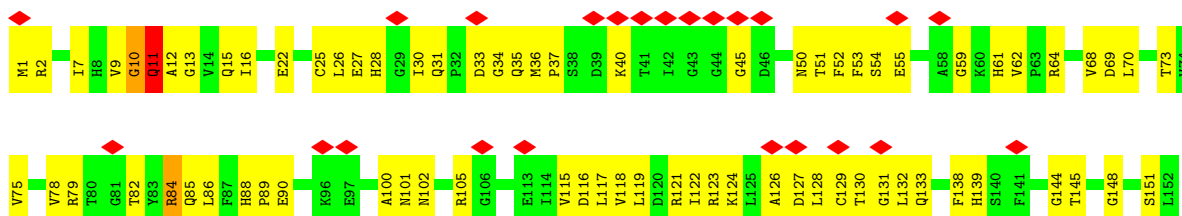


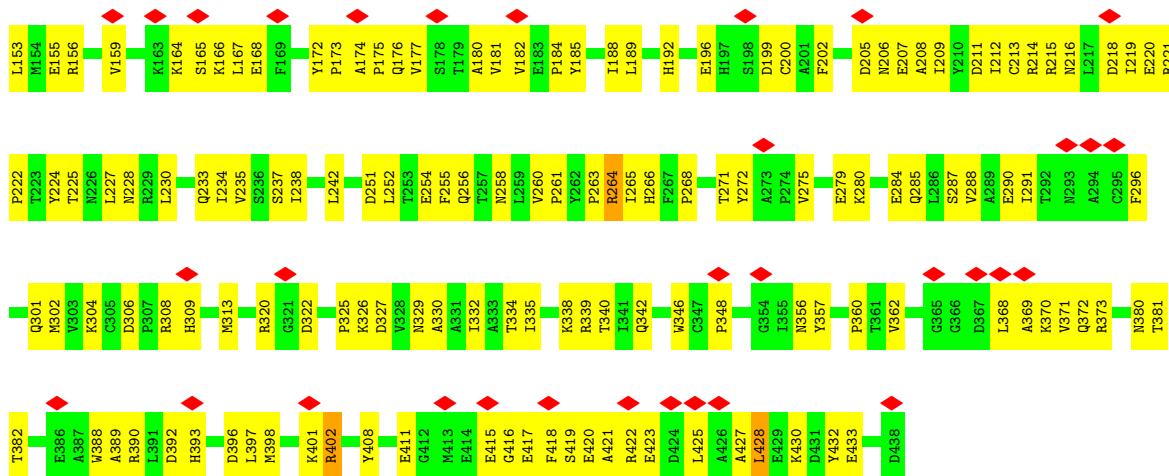


• Molecule 2: Detyrosinated tubulin alpha-3 chain

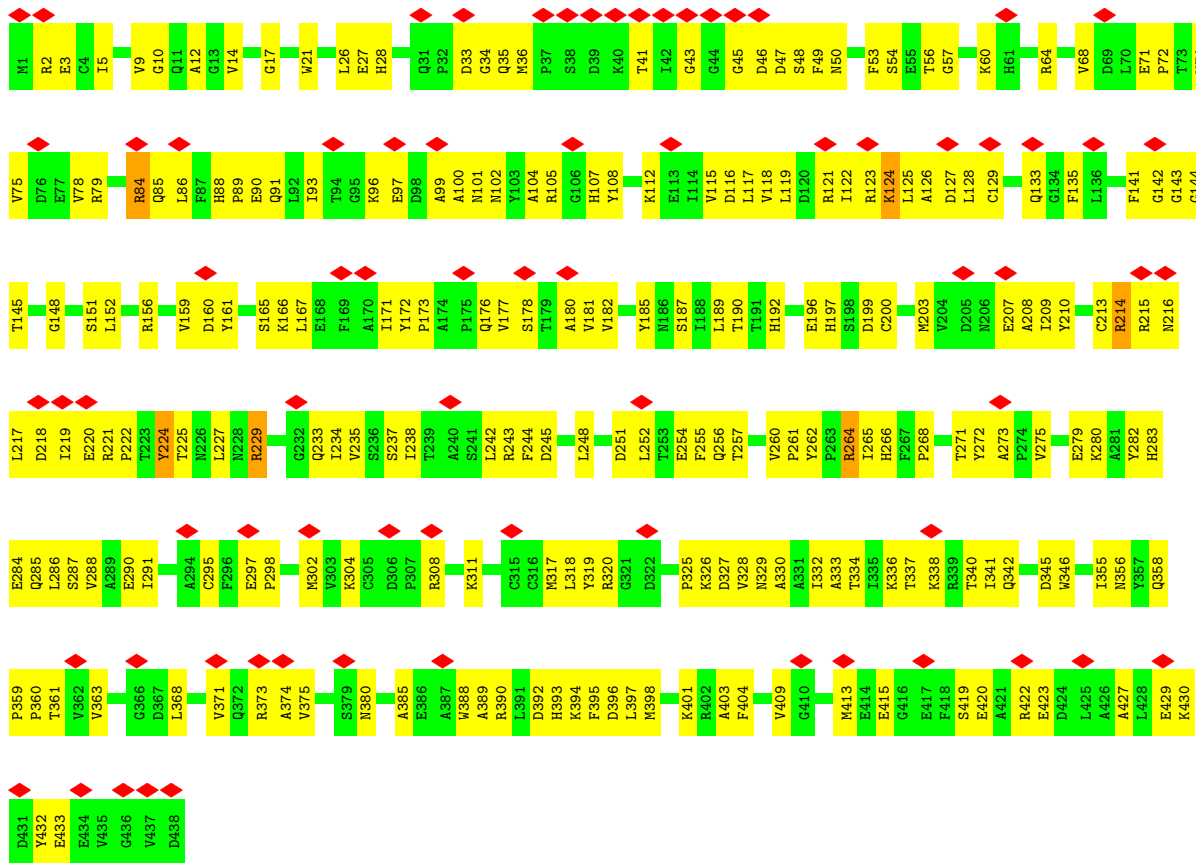


• Molecule 2: Detyrosinated tubulin alpha-3 chain



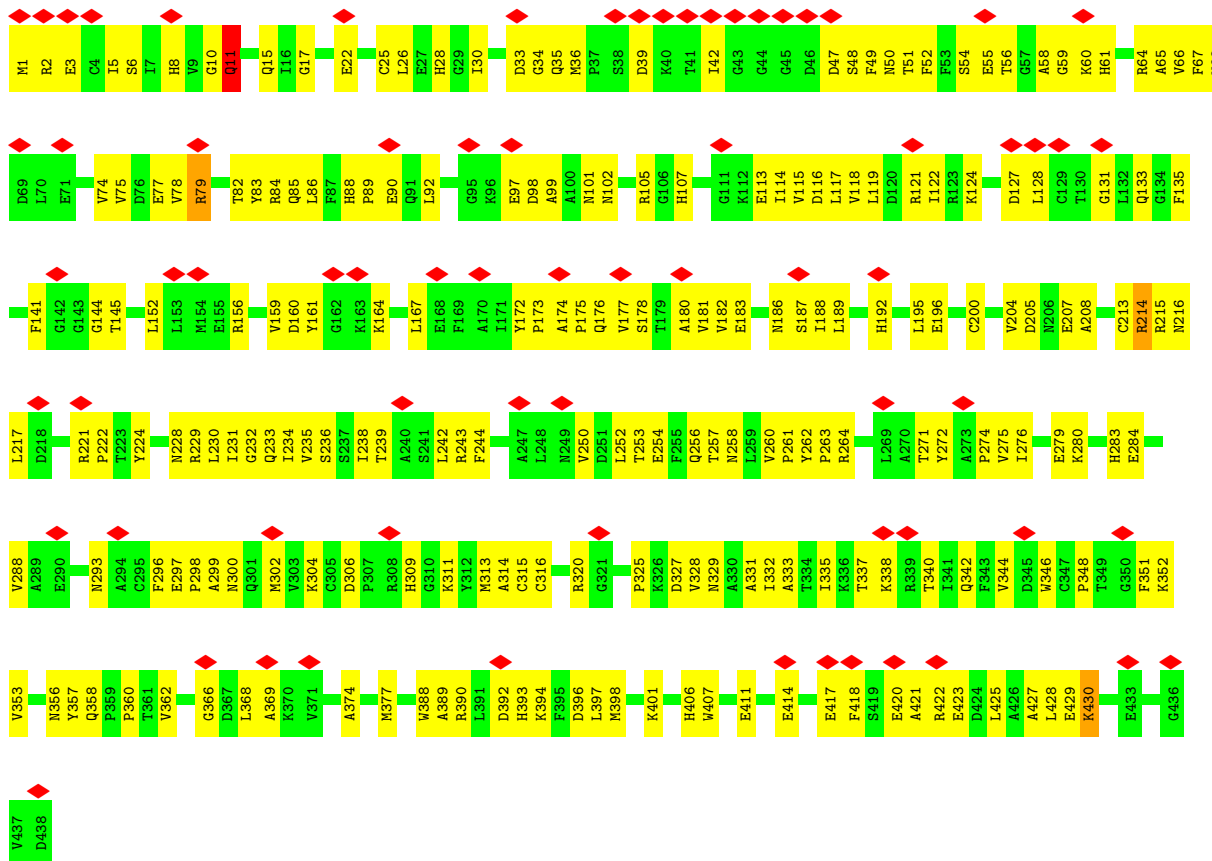


• Molecule 2: Detyrosinated tubulin alpha-3 chain

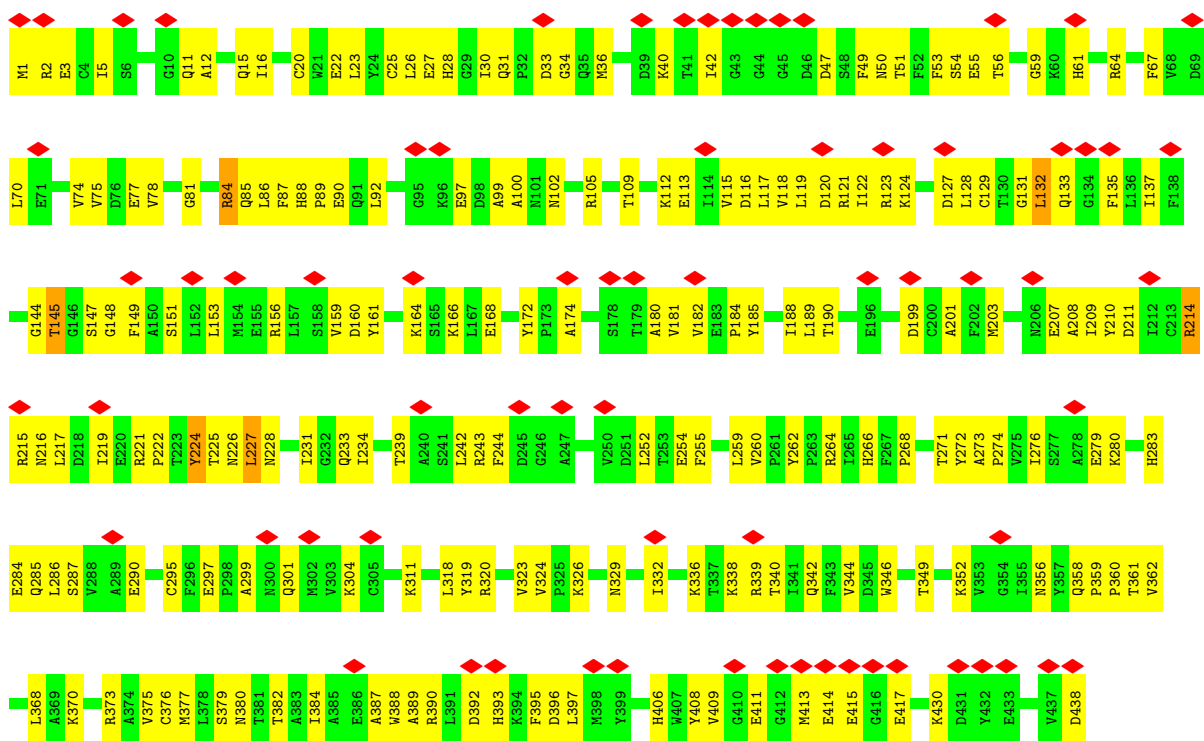


• Molecule 2: Detyrosinated tubulin alpha-3 chain





• Molecule 2: Detyrosinated tubulin alpha-3 chain

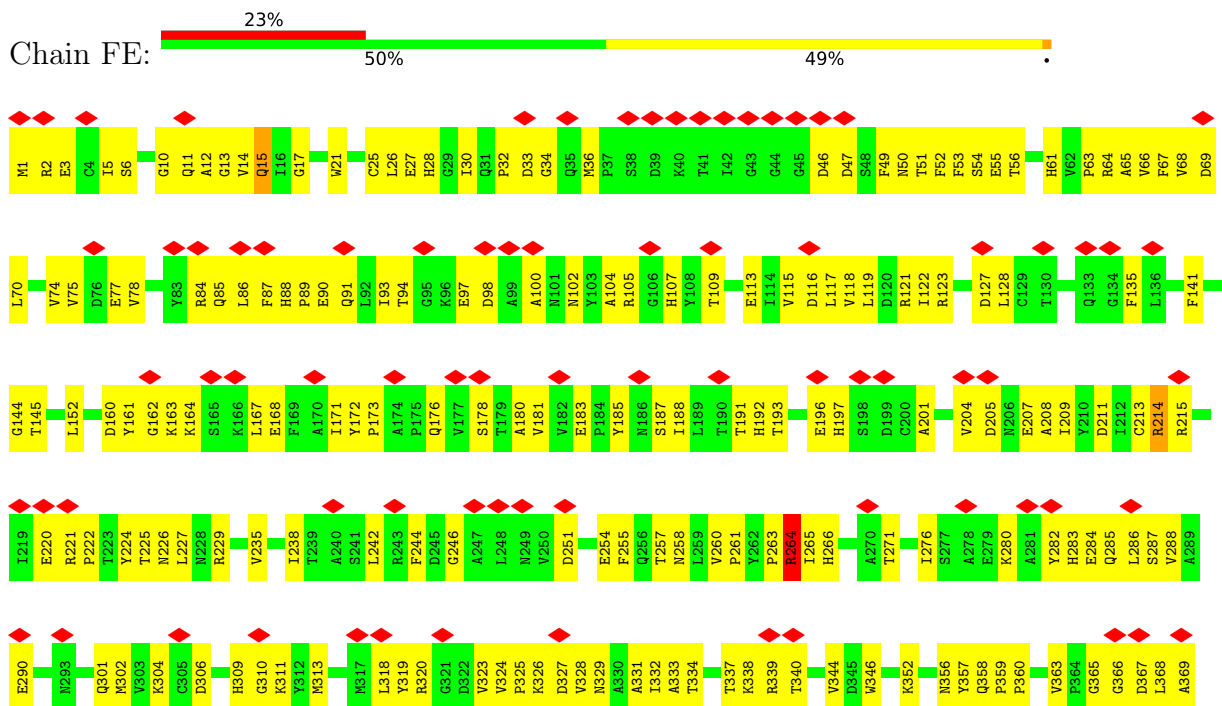




• Molecule 2: Detyrosinated tubulin alpha-3 chain

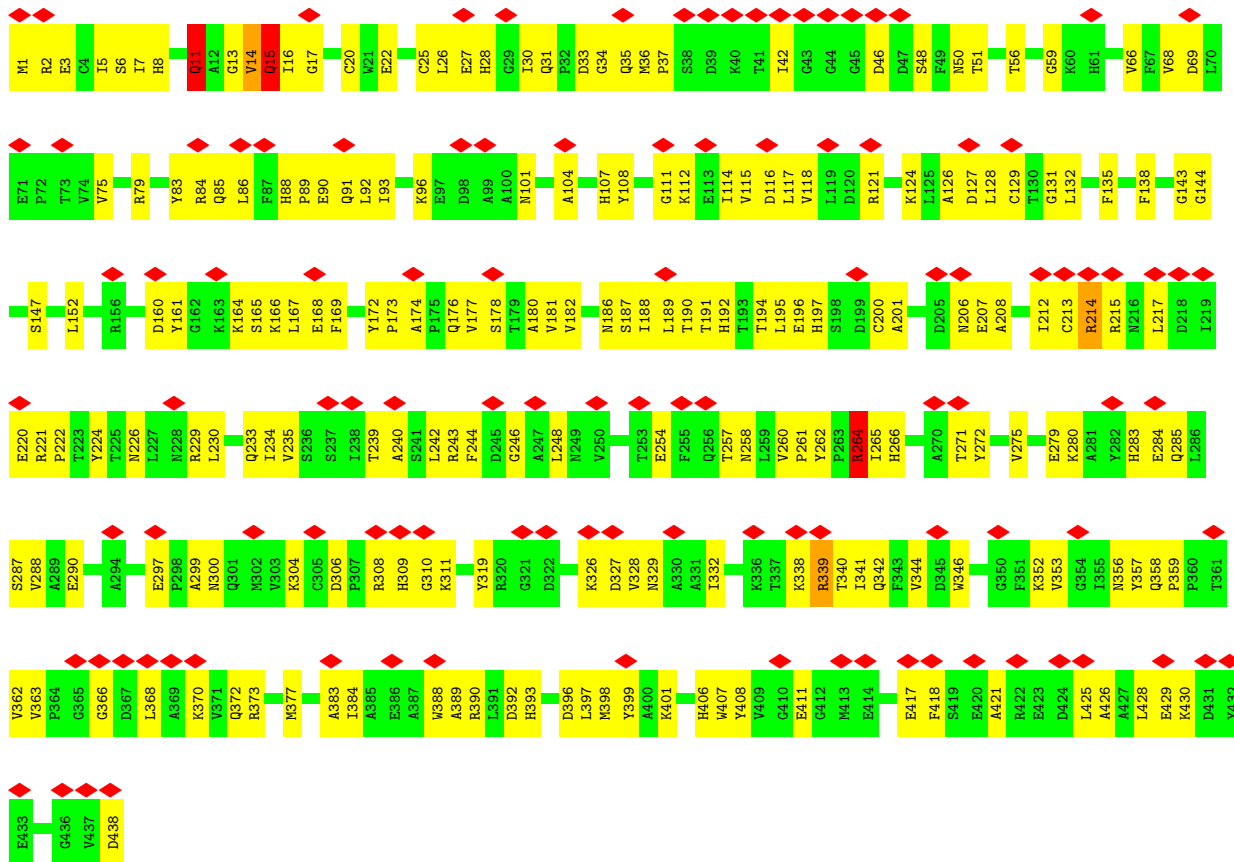


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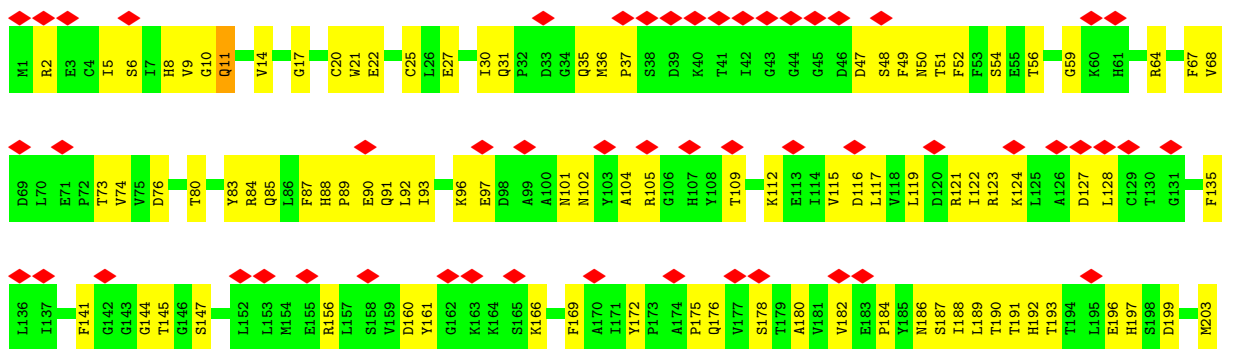


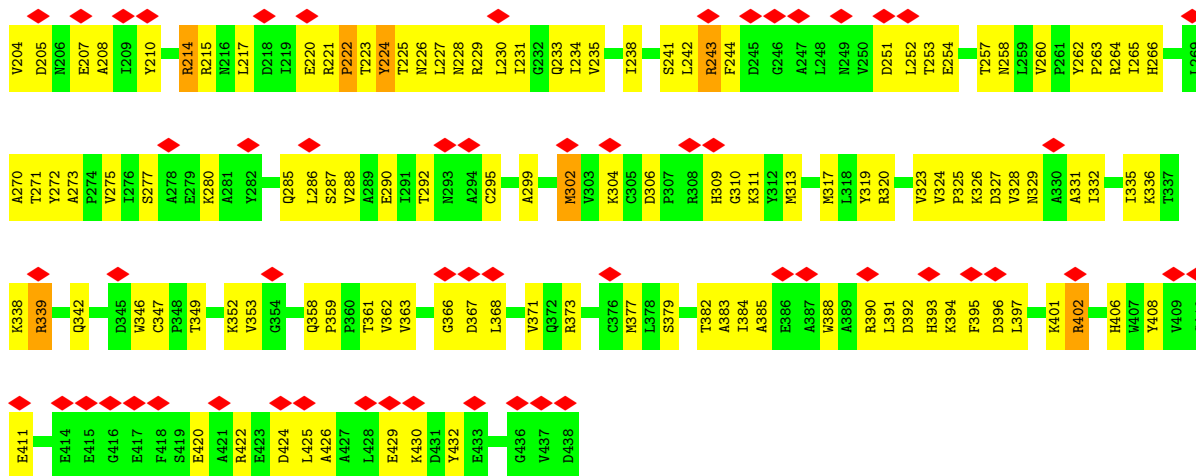


• Molecule 2: Detyrosinated tubulin alpha-3 chain

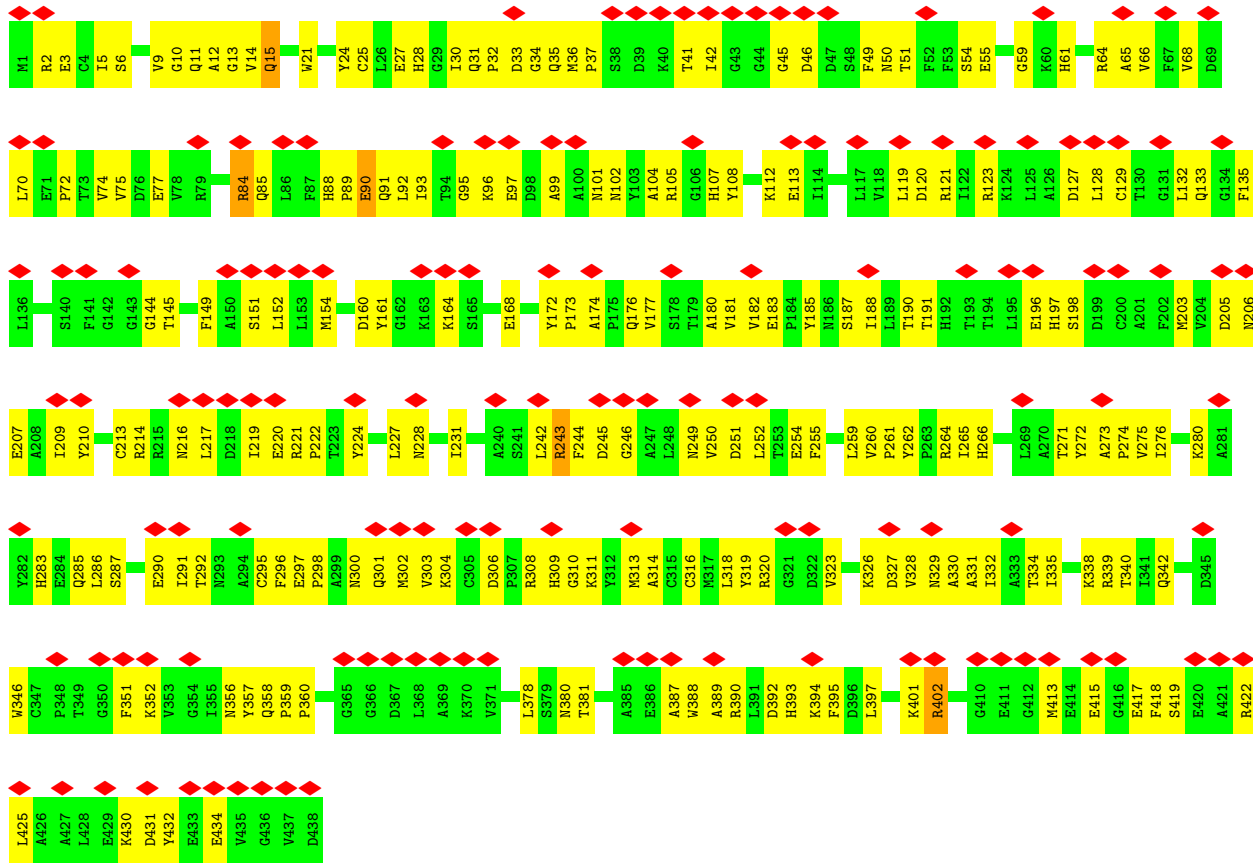


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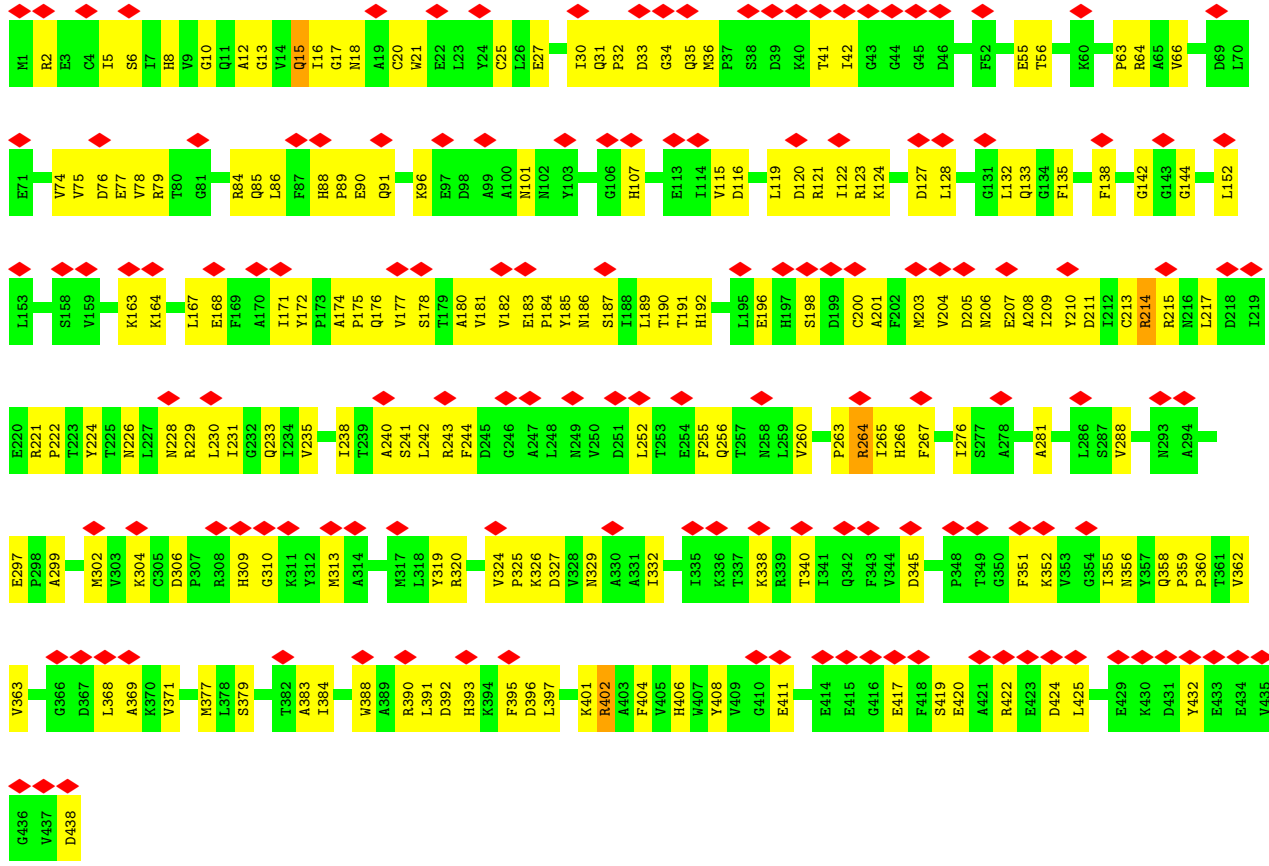


• Molecule 2: Detyrosinated tubulin alpha-3 chain

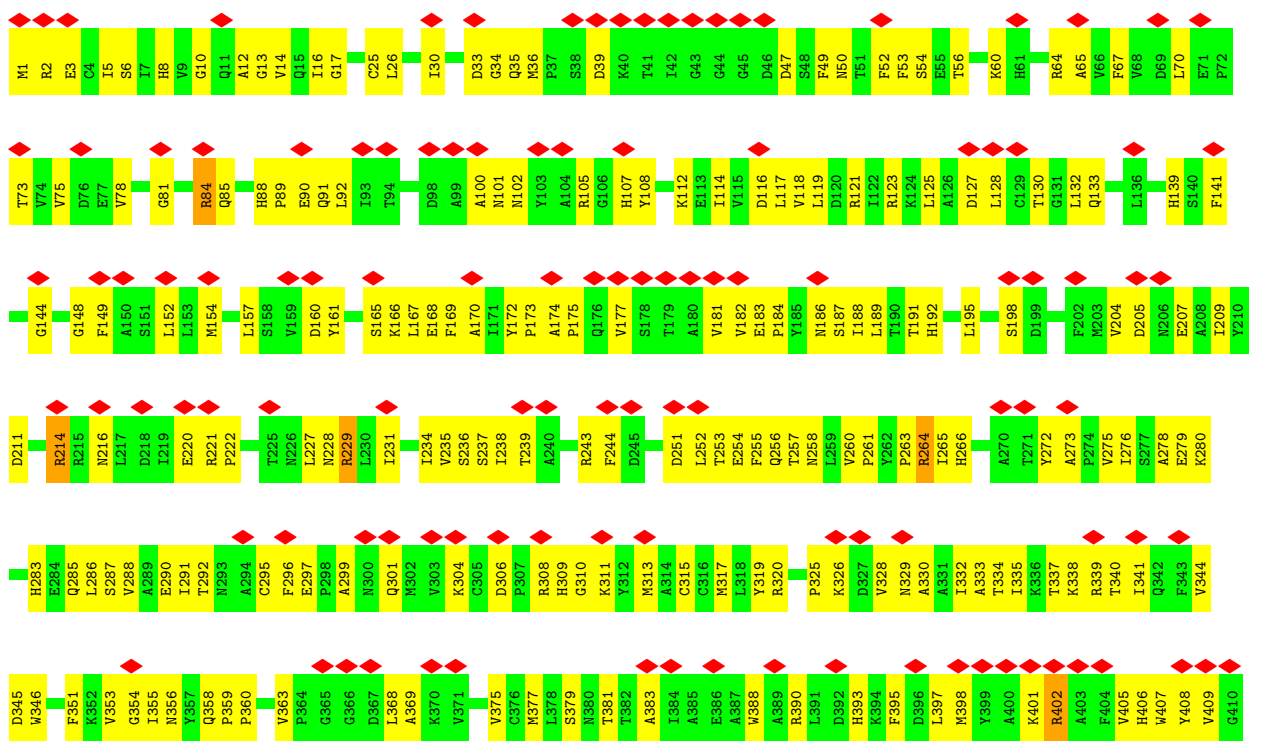


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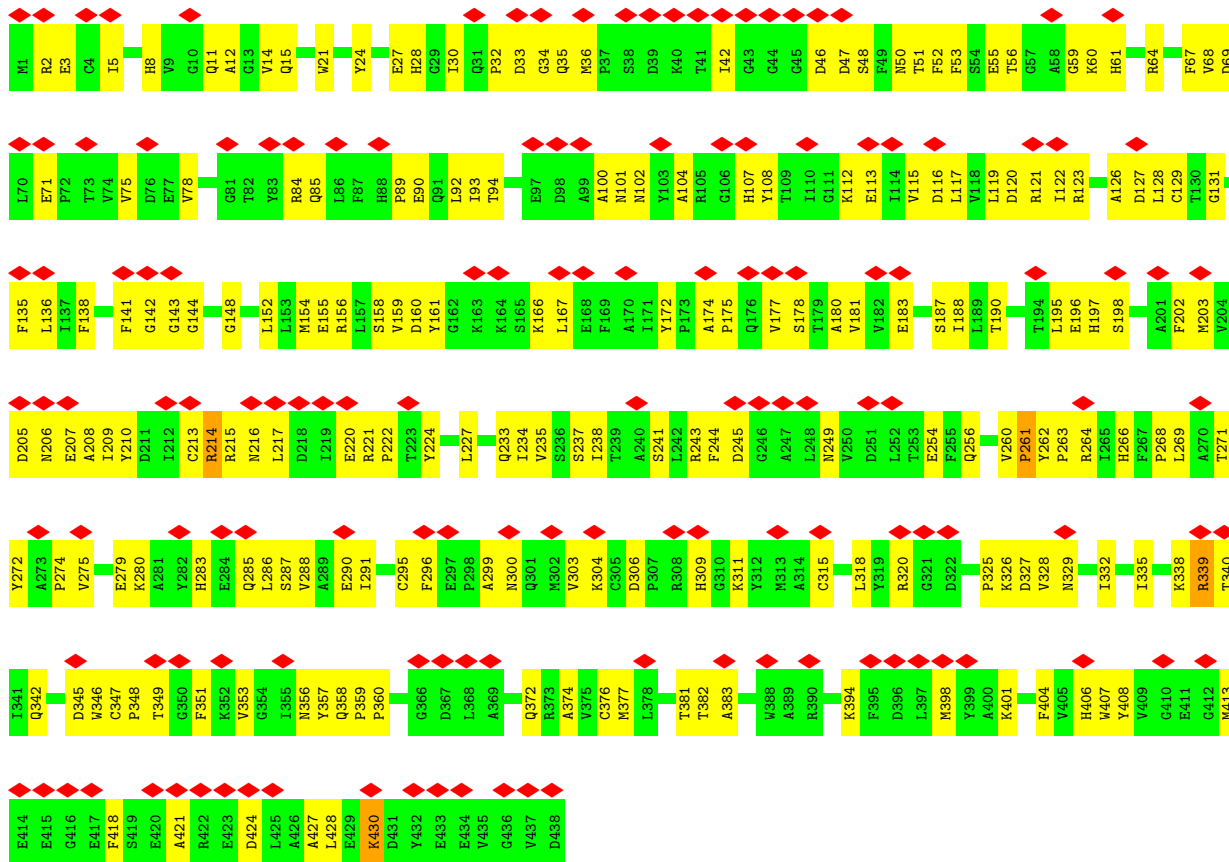


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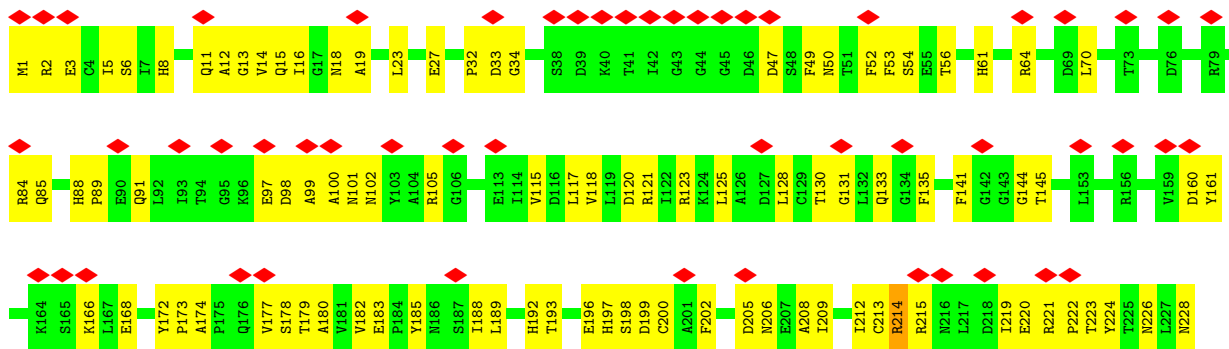


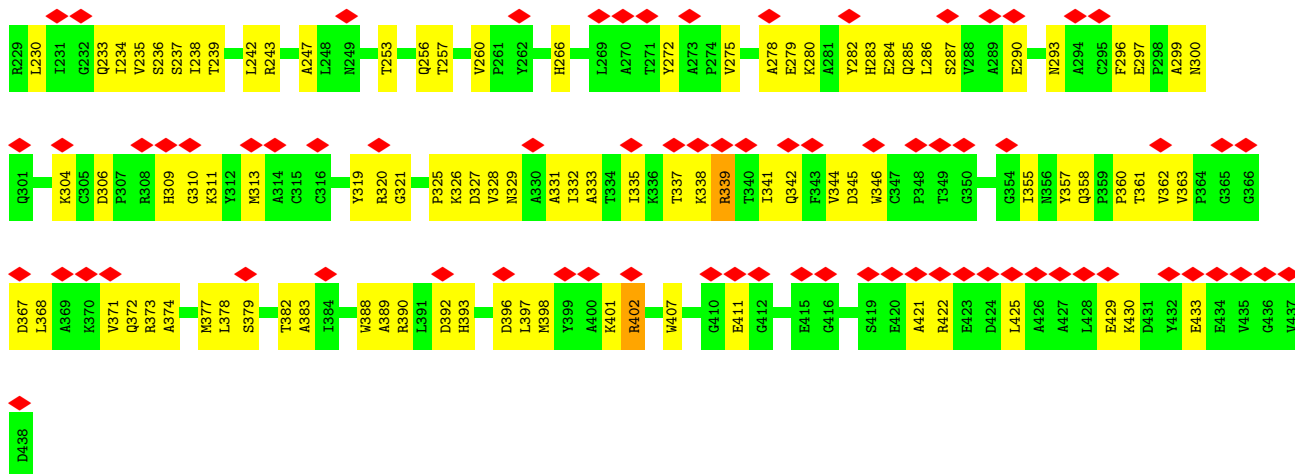


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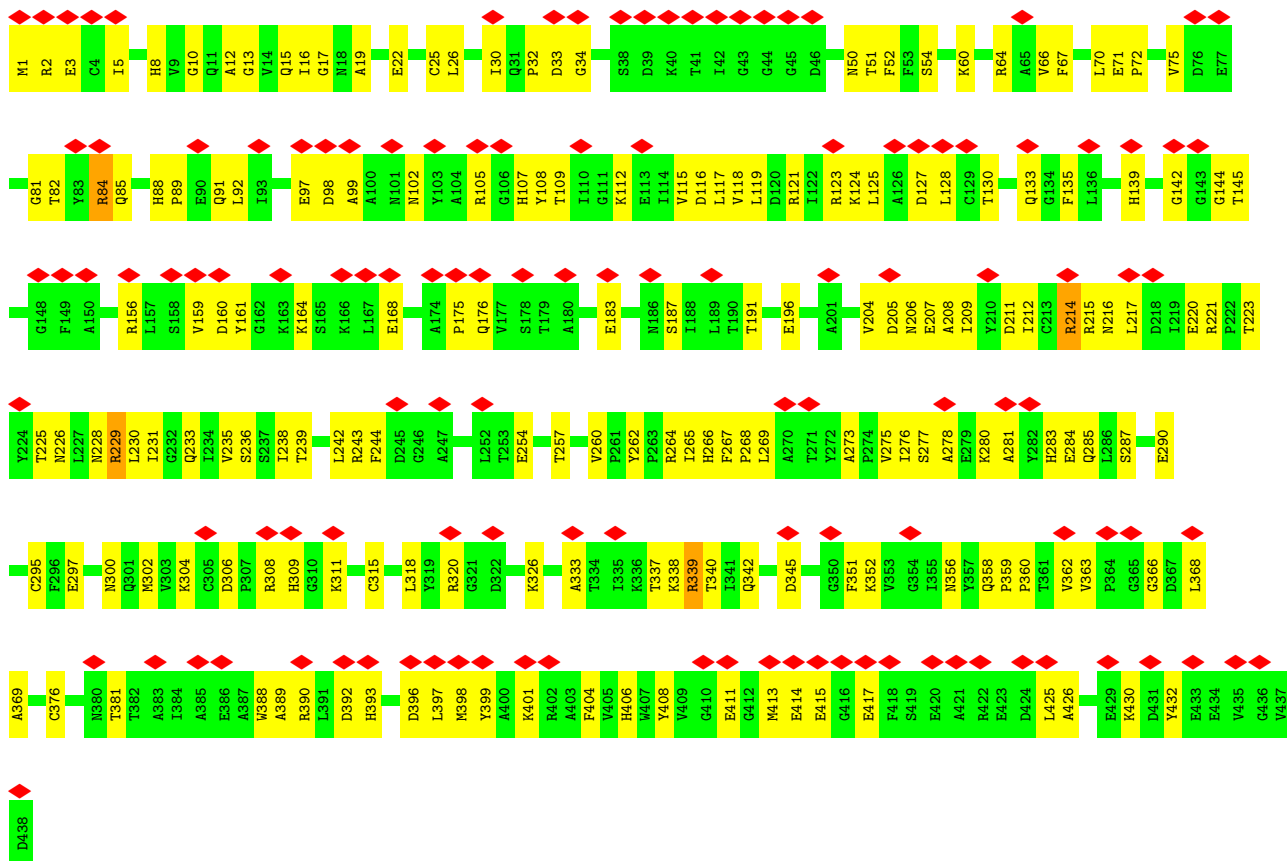


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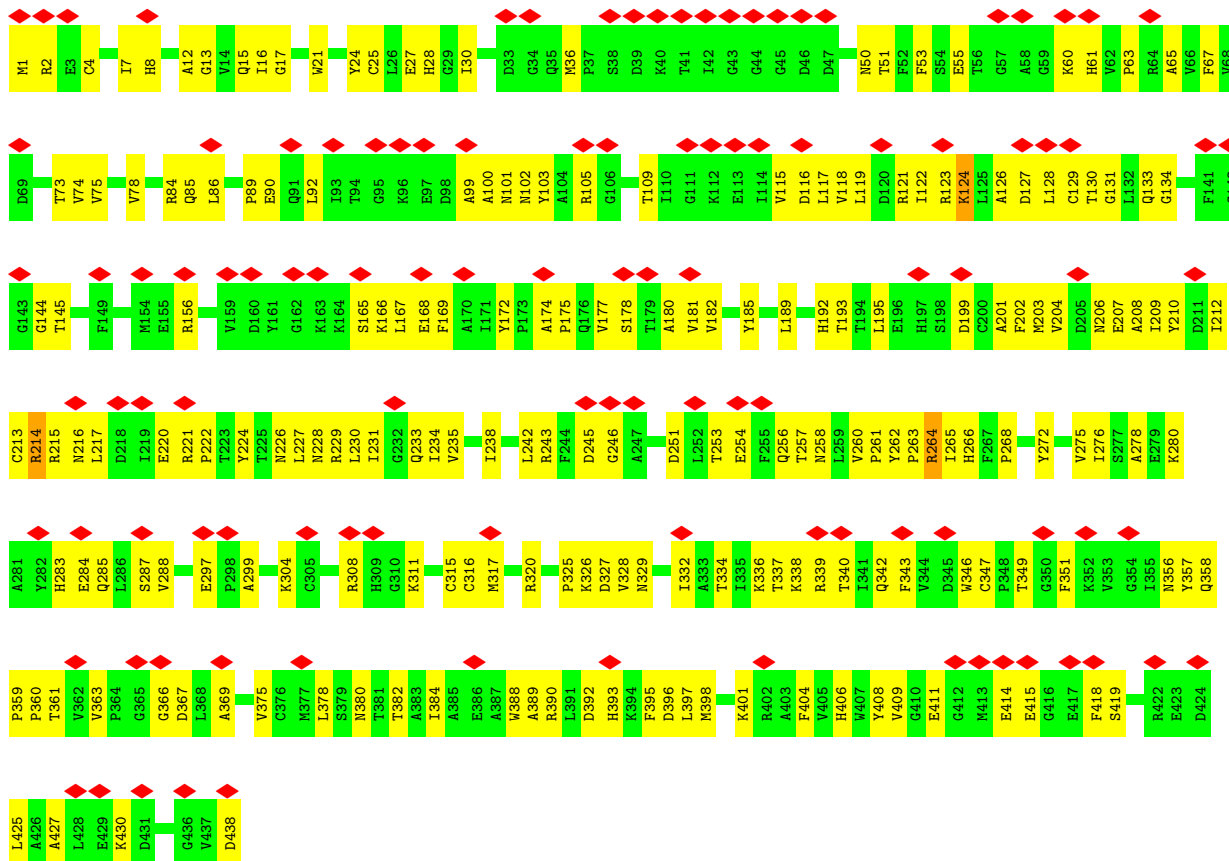


• Molecule 2: Detyrosinated tubulin alpha-3 chain

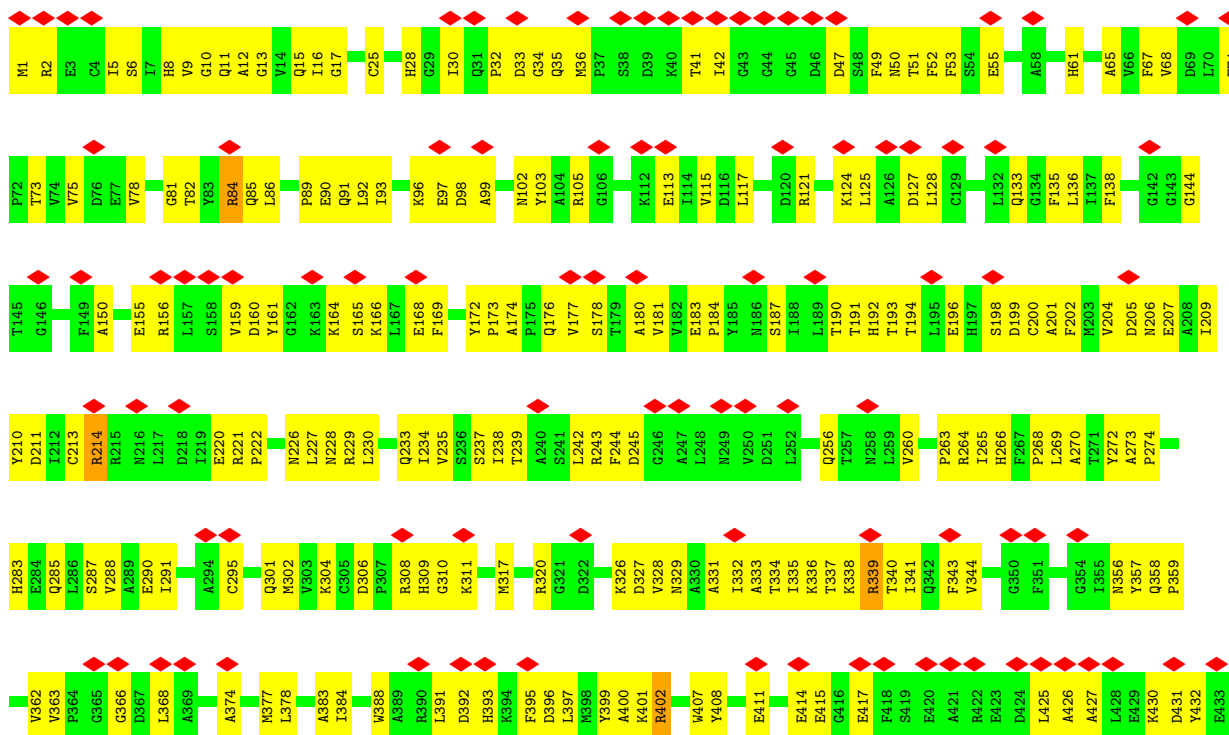


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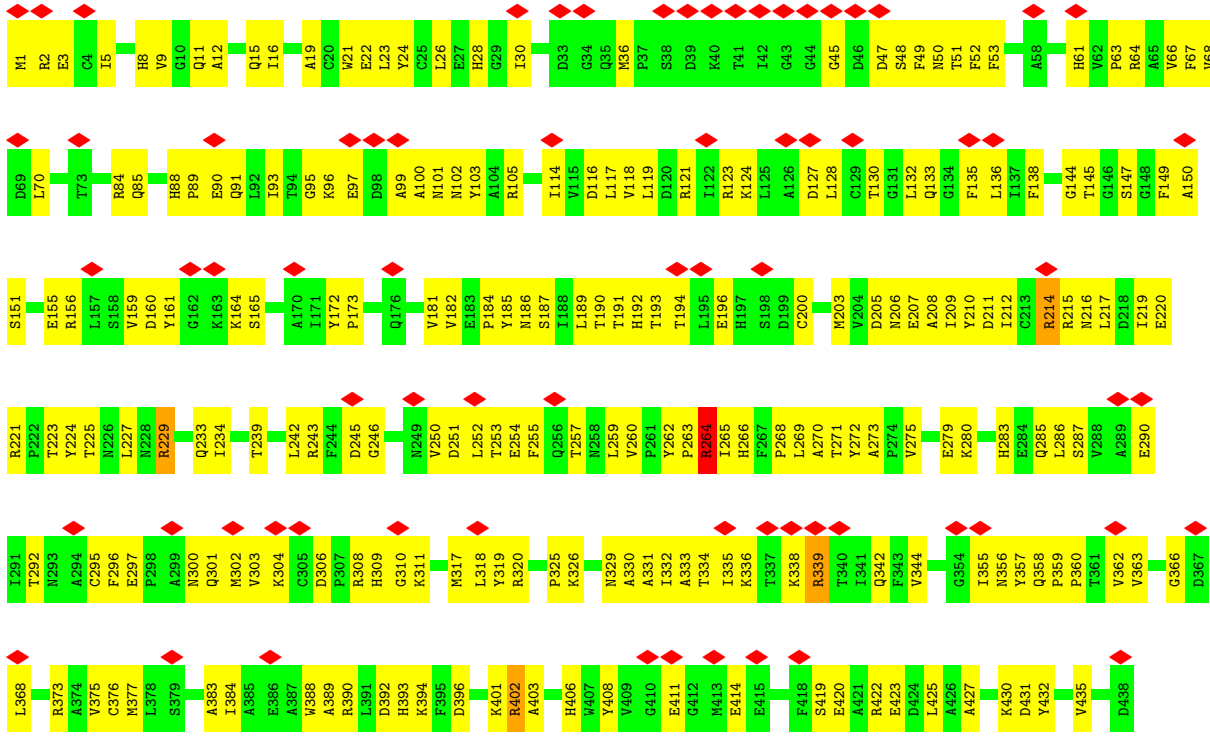


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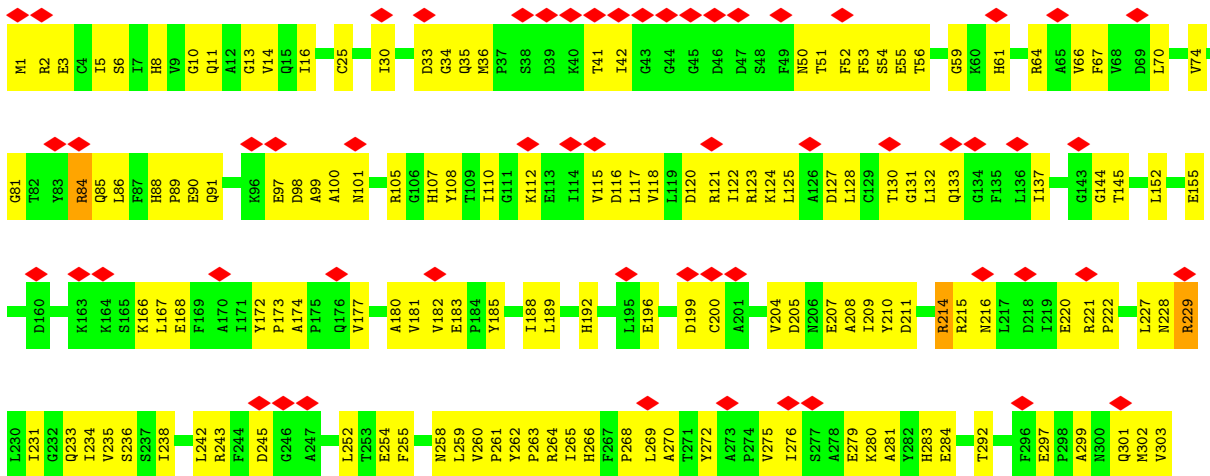




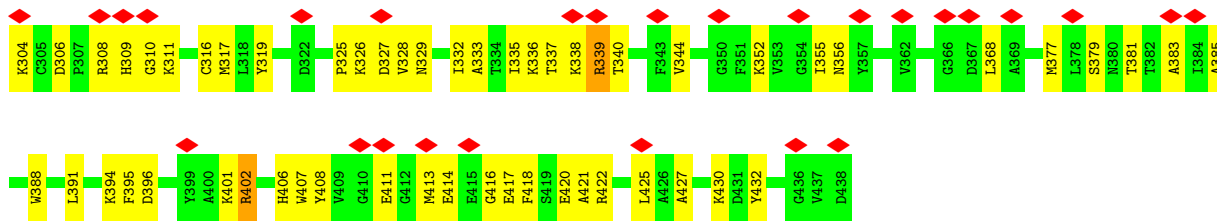
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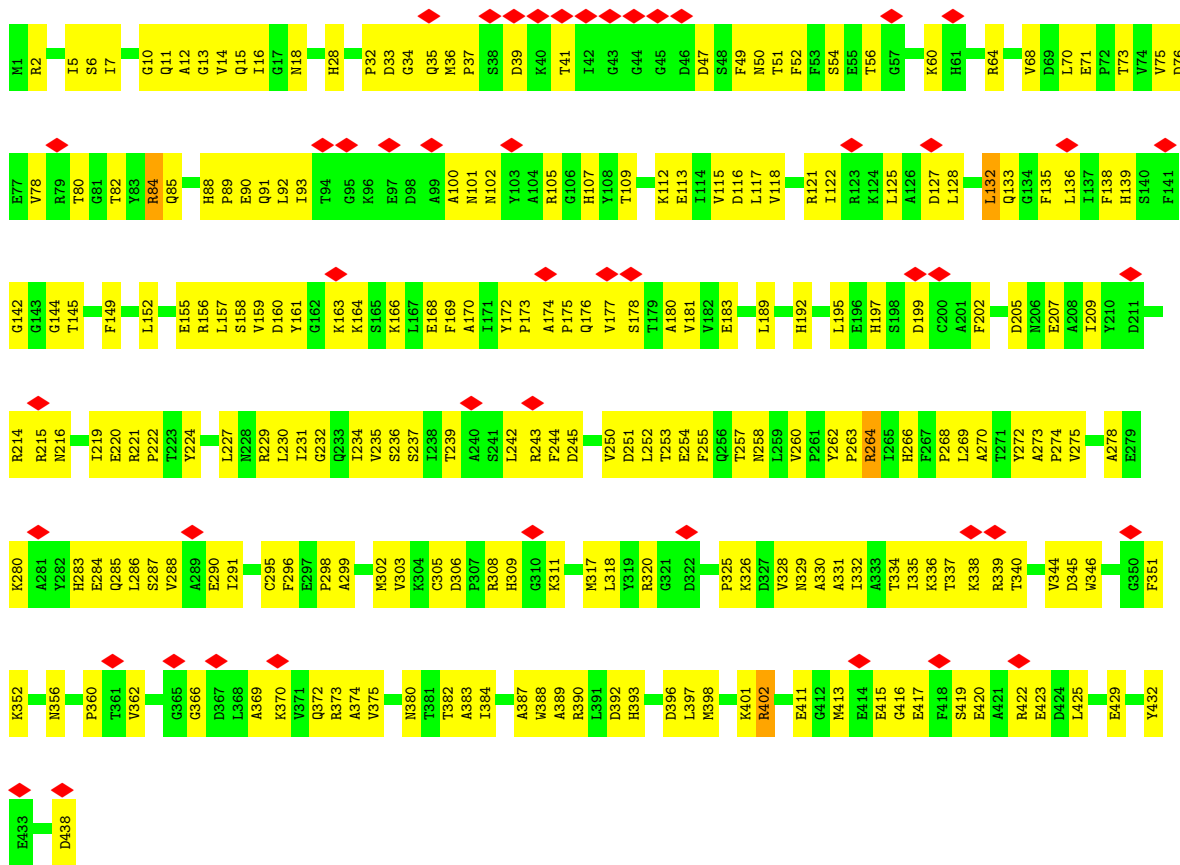
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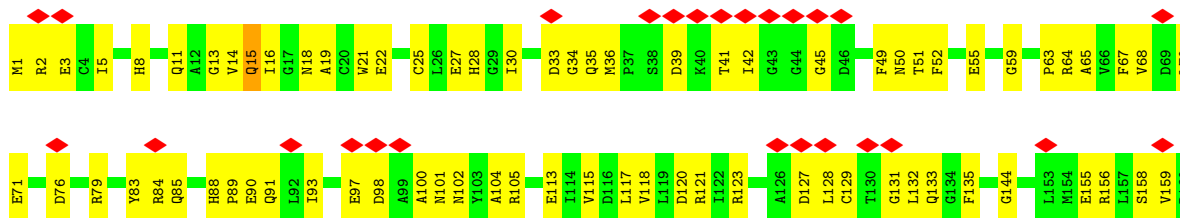


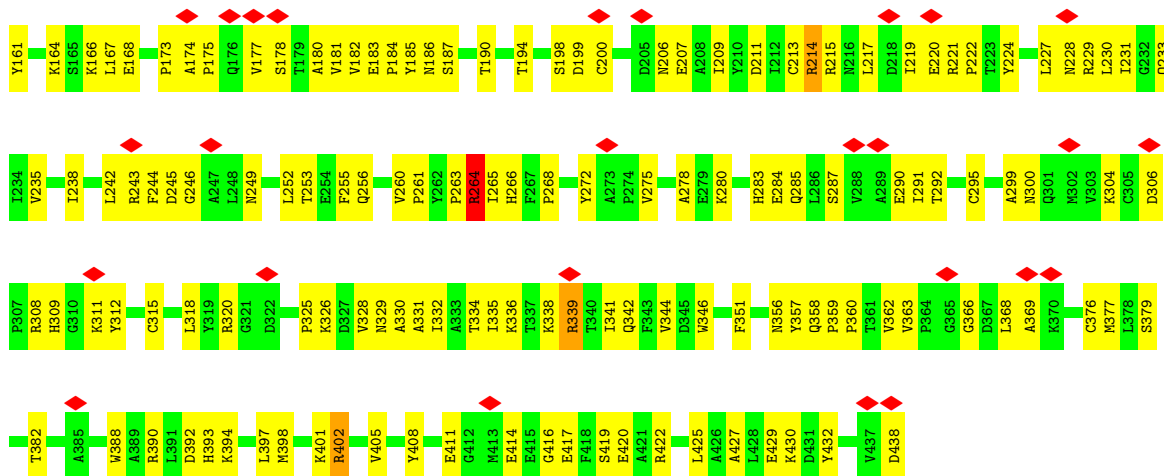


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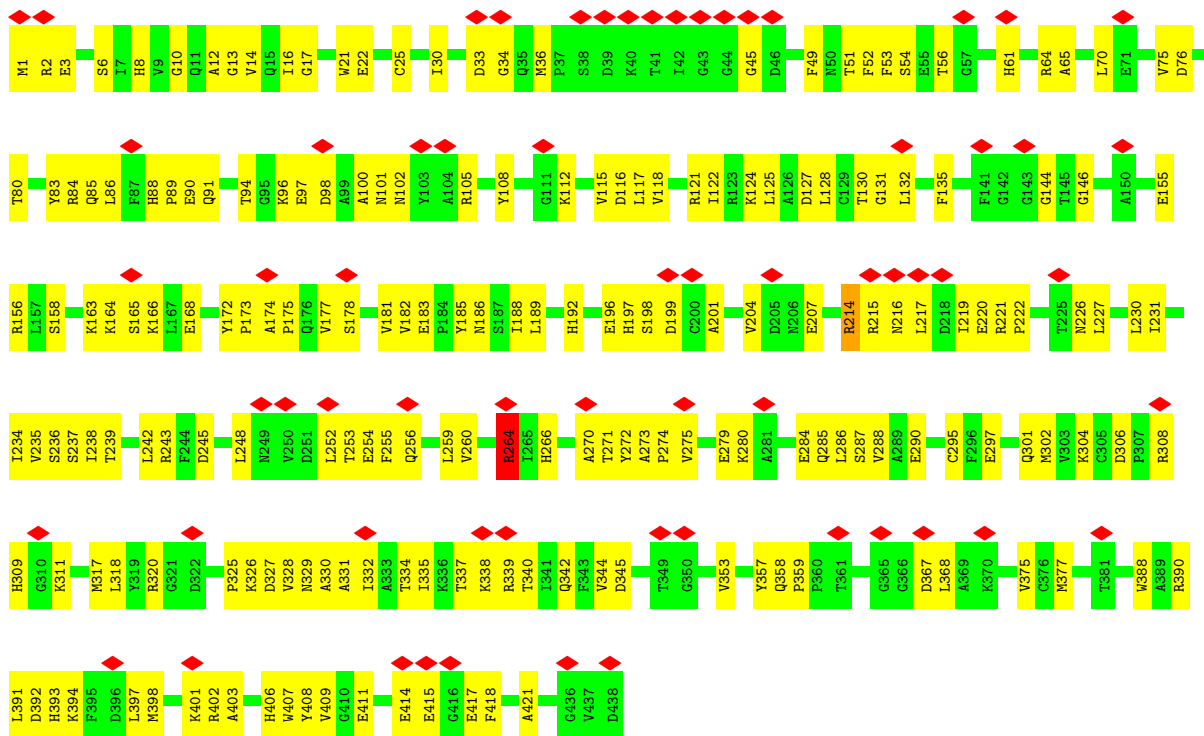


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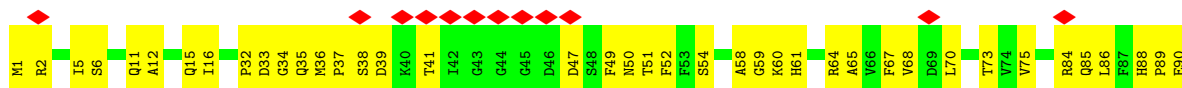


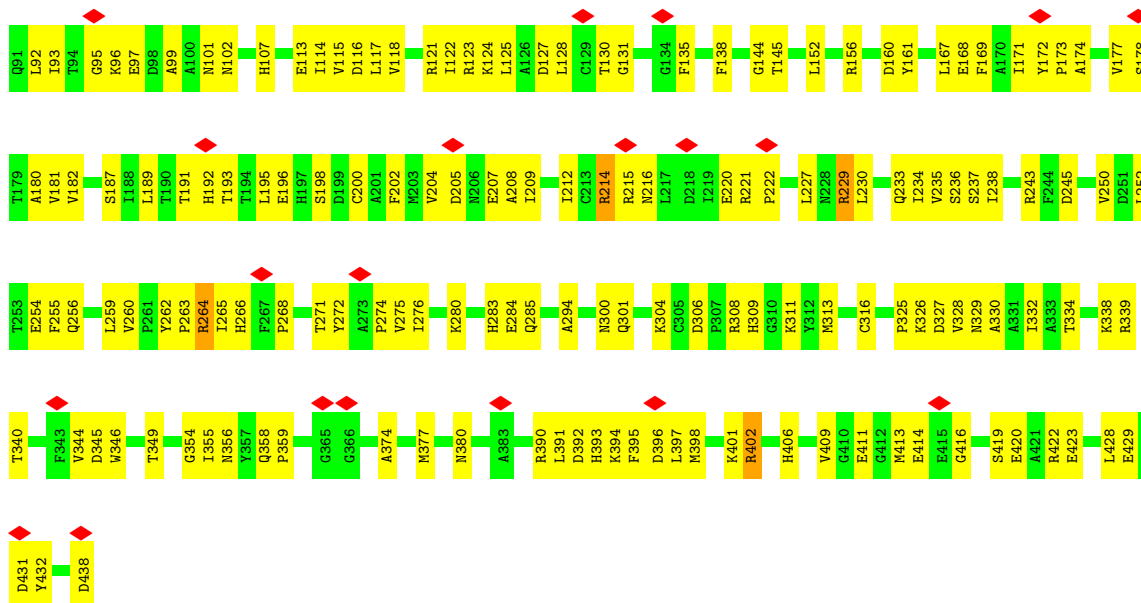


• Molecule 2: Detyrosinated tubulin alpha-3 chain

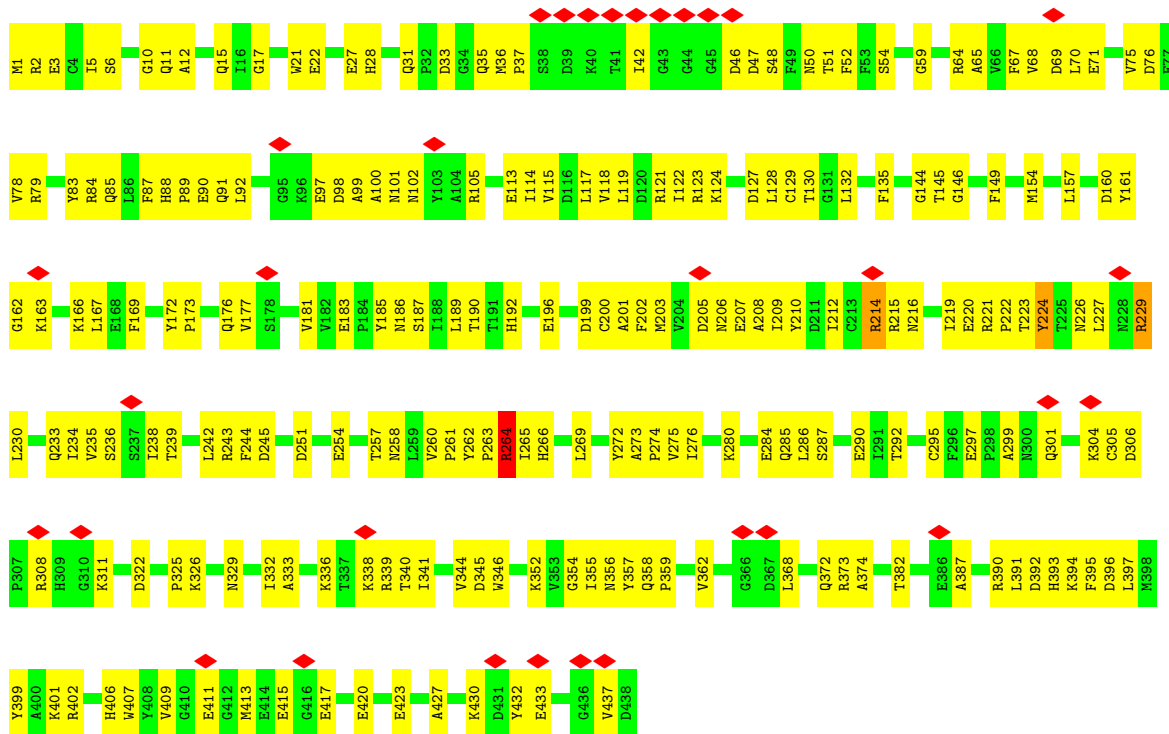


• Molecule 2: Detyrosinated tubulin alpha-3 chain



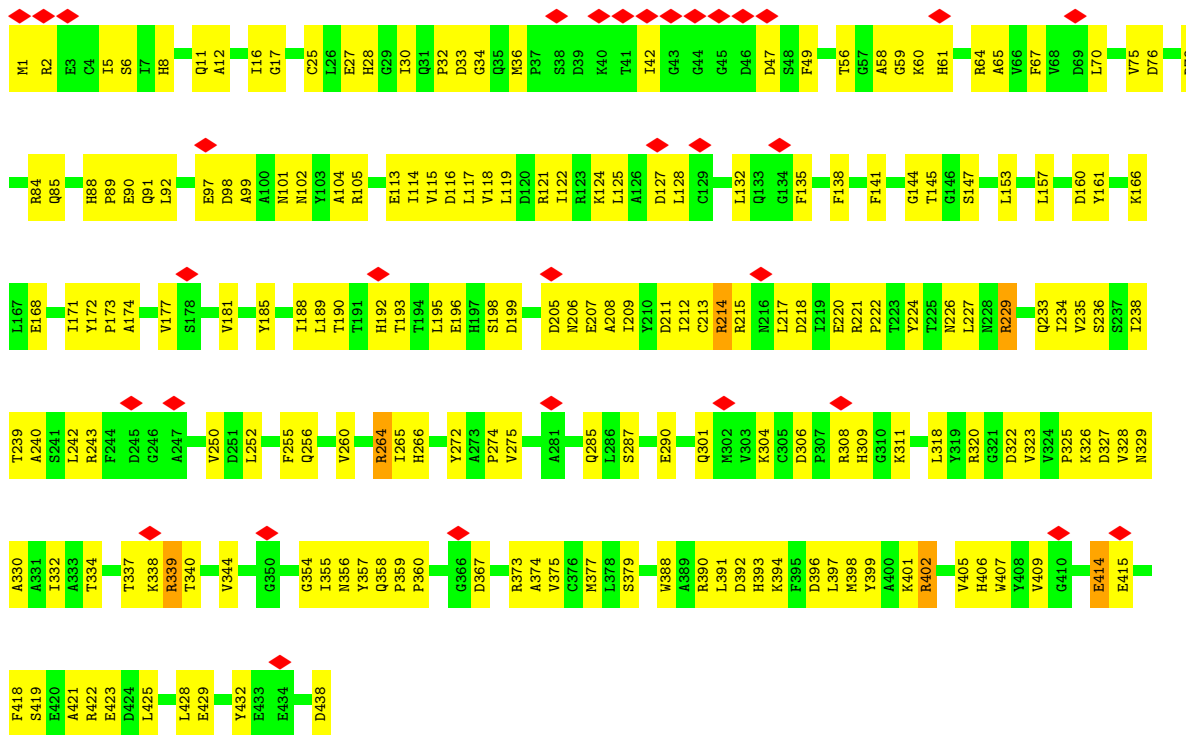


• Molecule 2: Detyrosinated tubulin alpha-3 chain

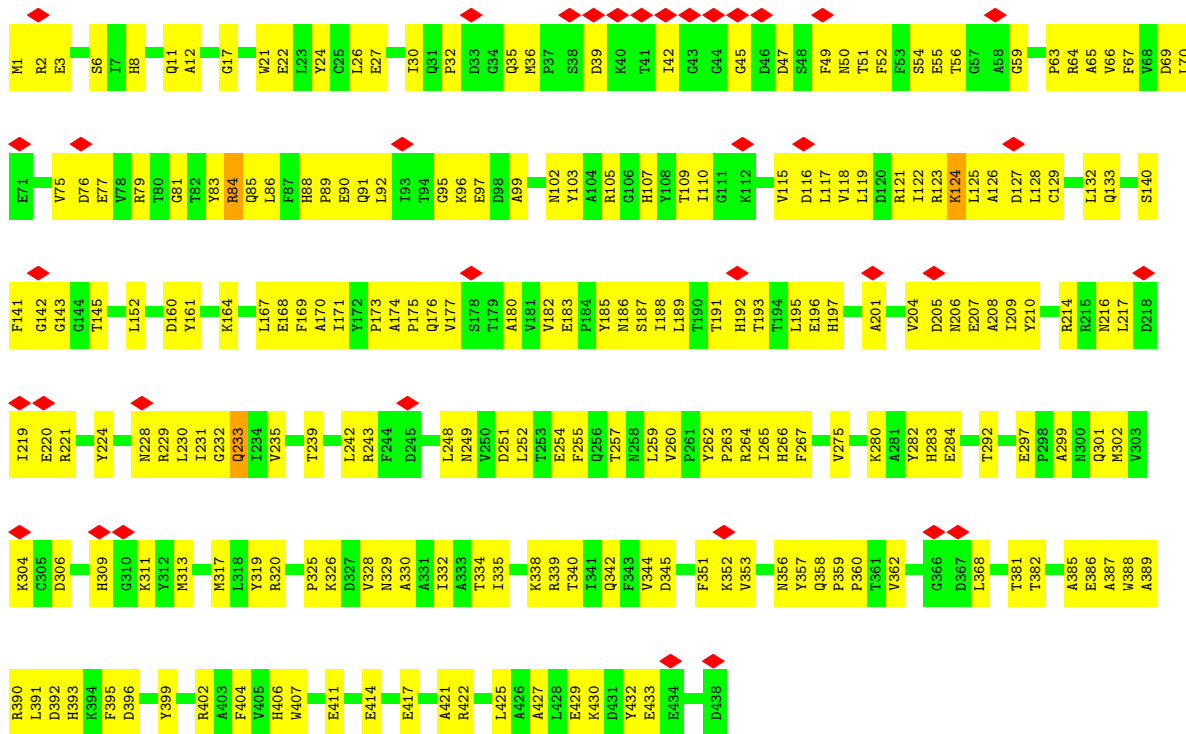


• Molecule 2: Detyrosinated tubulin alpha-3 chain

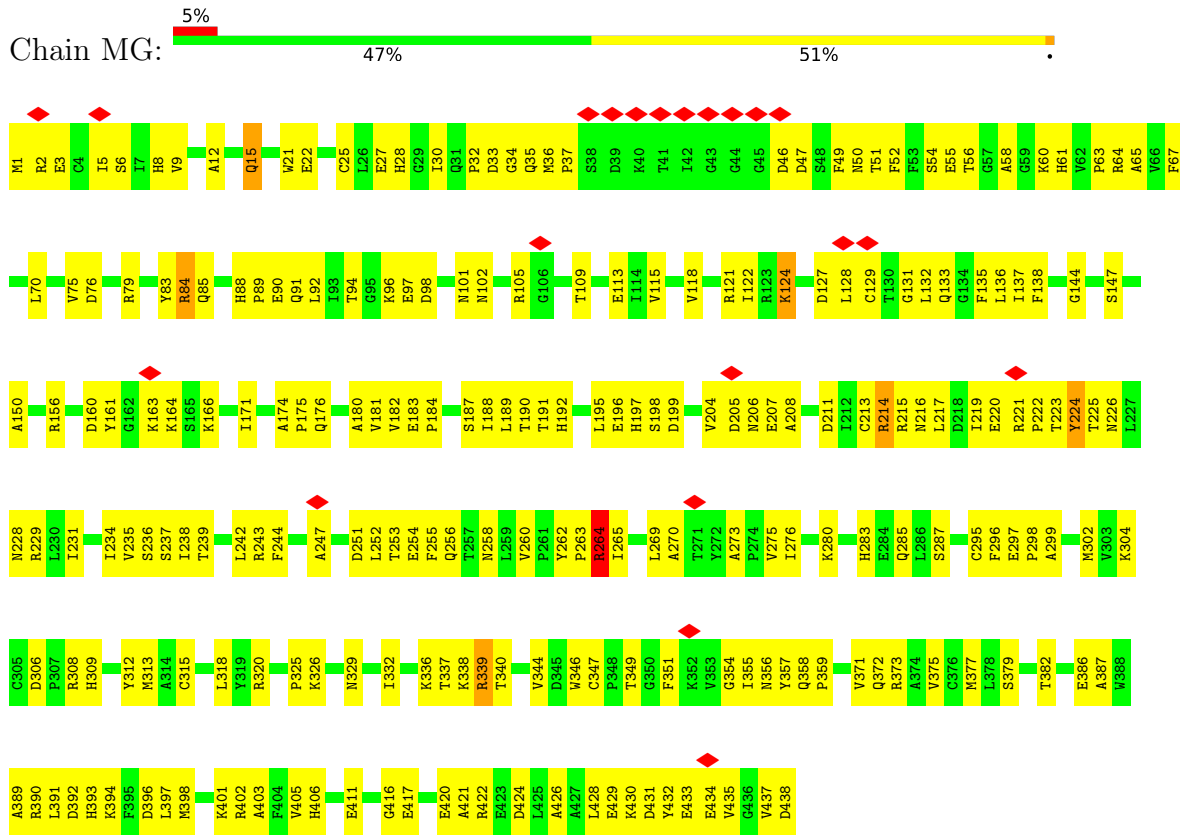




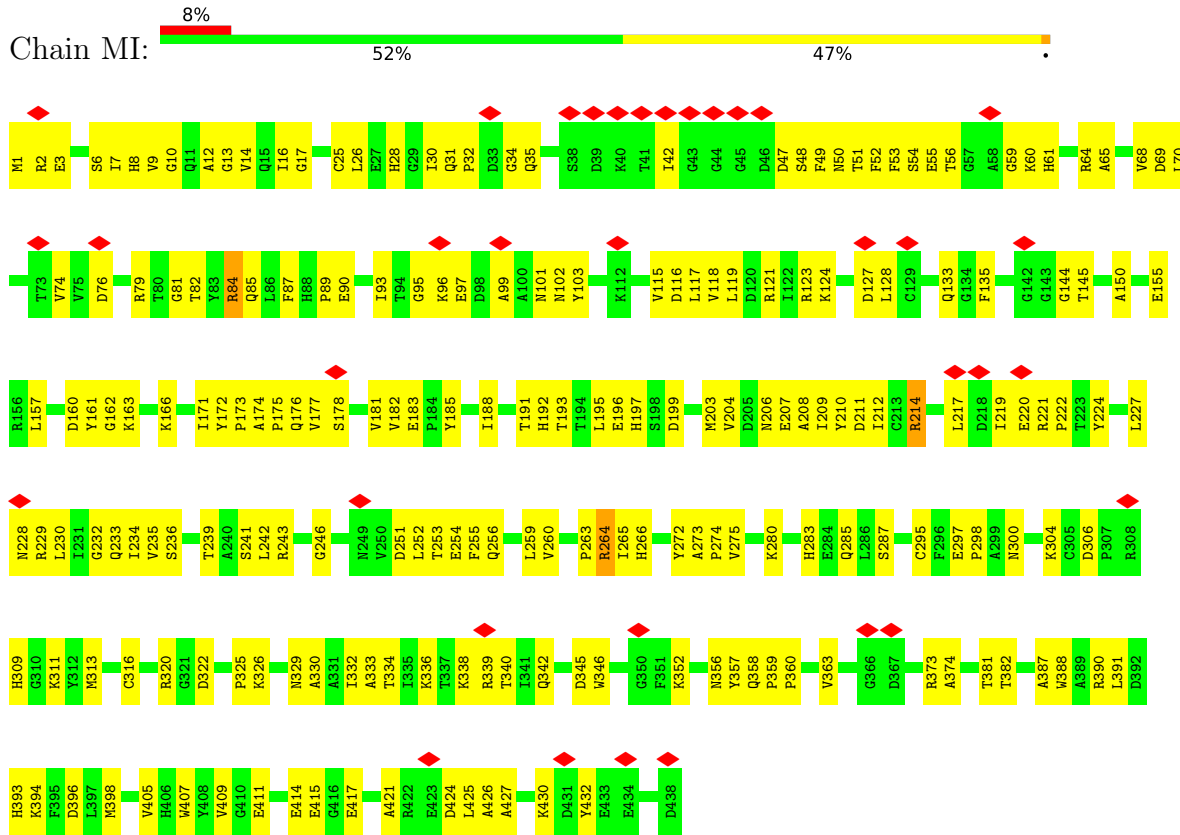
• Molecule 2: Detyrosinated tubulin alpha-3 chain



• Molecule 2: Detyrosinated tubulin alpha-3 chain



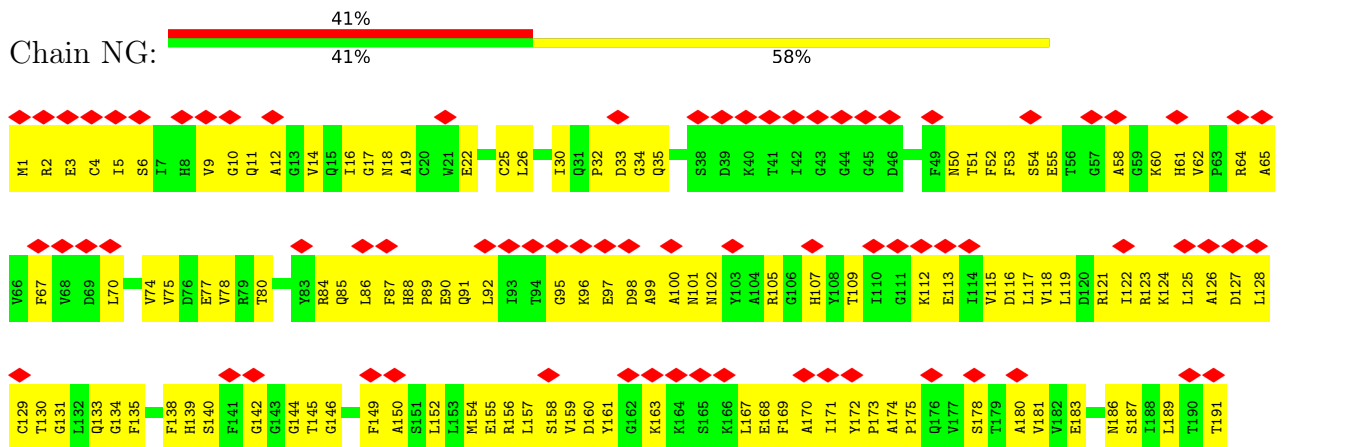
• Molecule 2: Detyrosinated tubulin alpha-3 chain

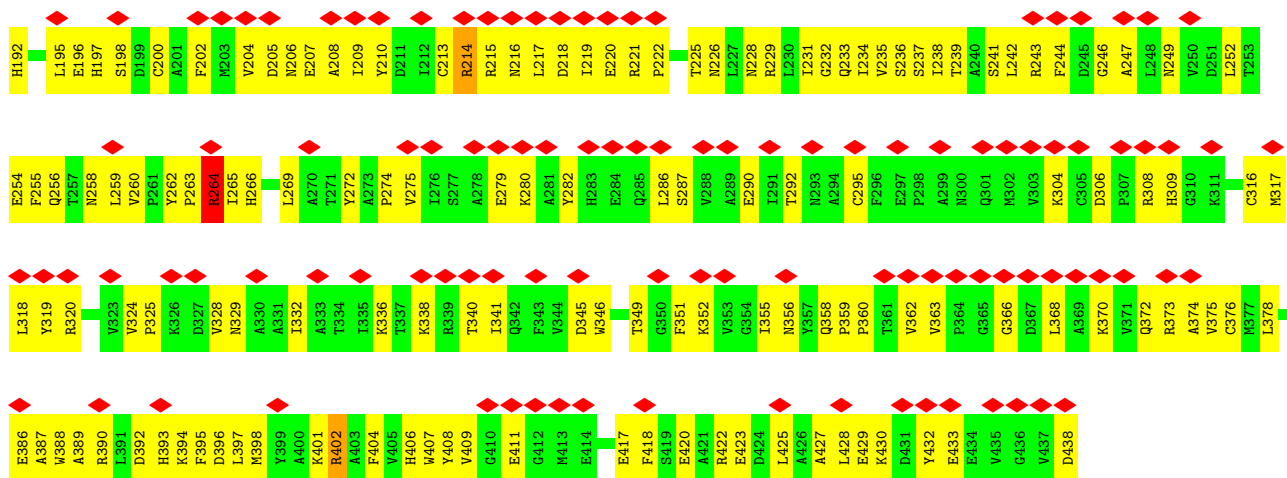


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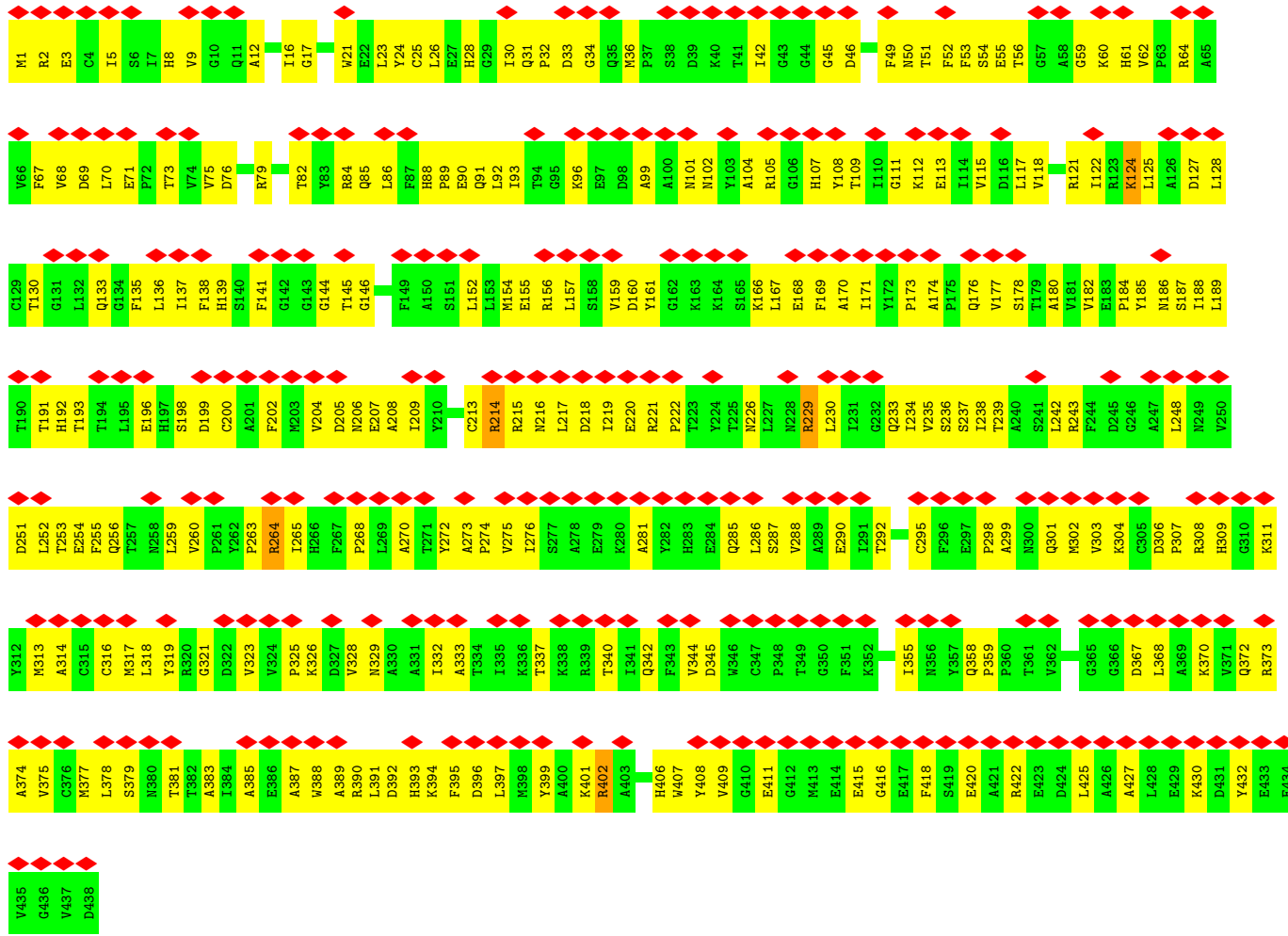
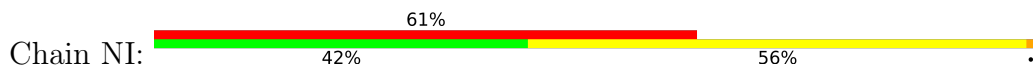


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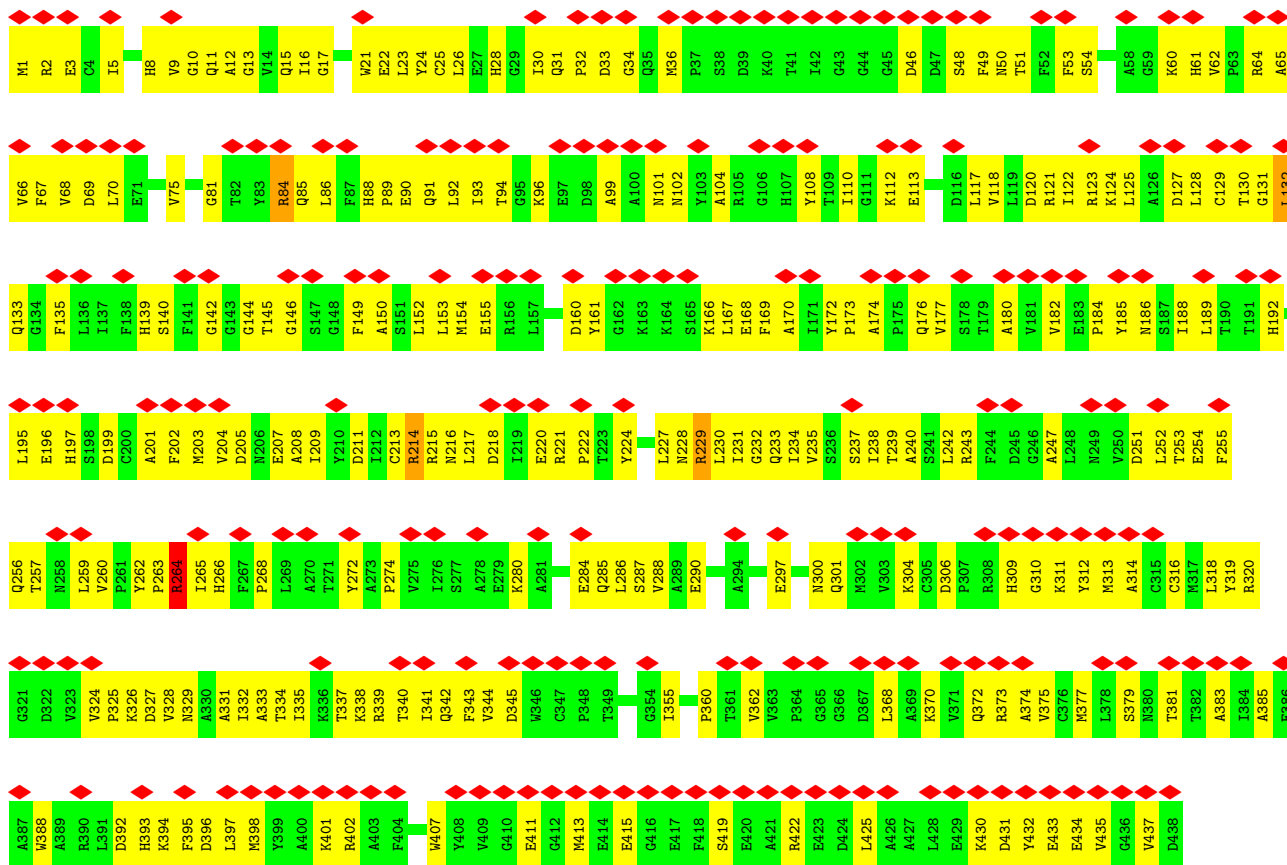
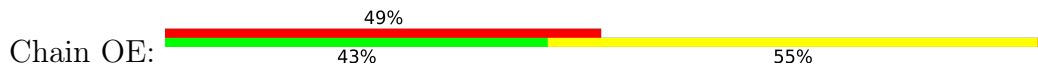




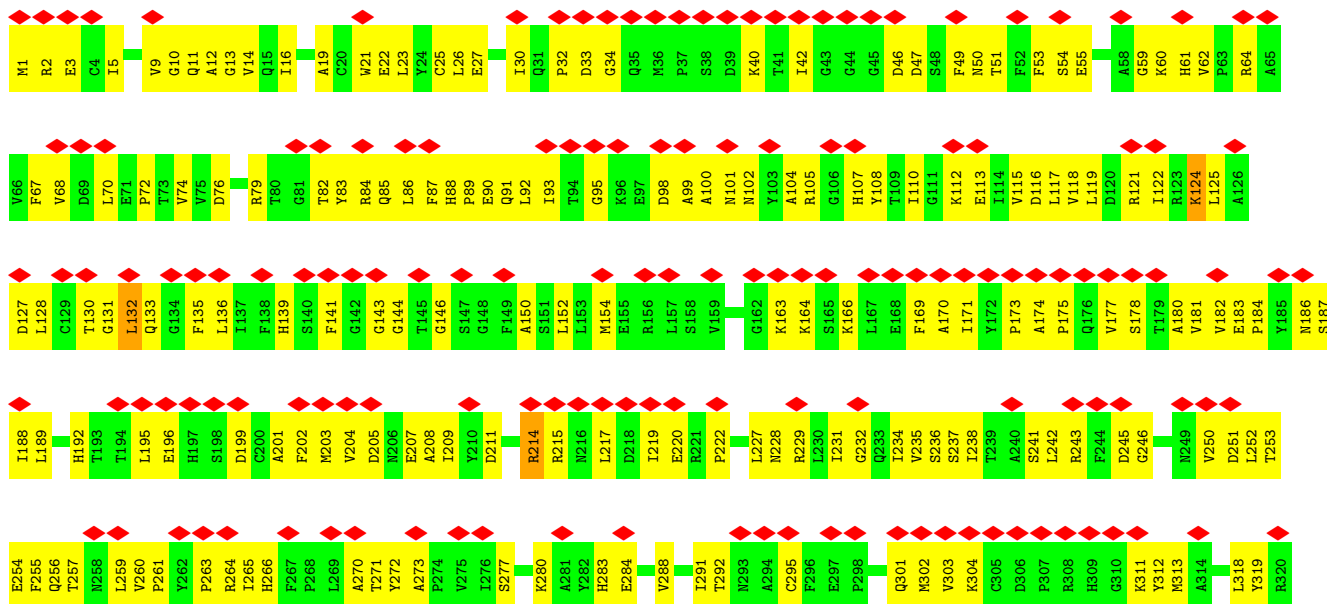
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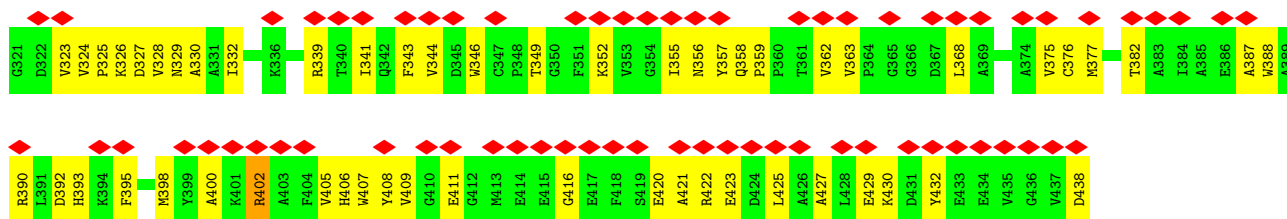
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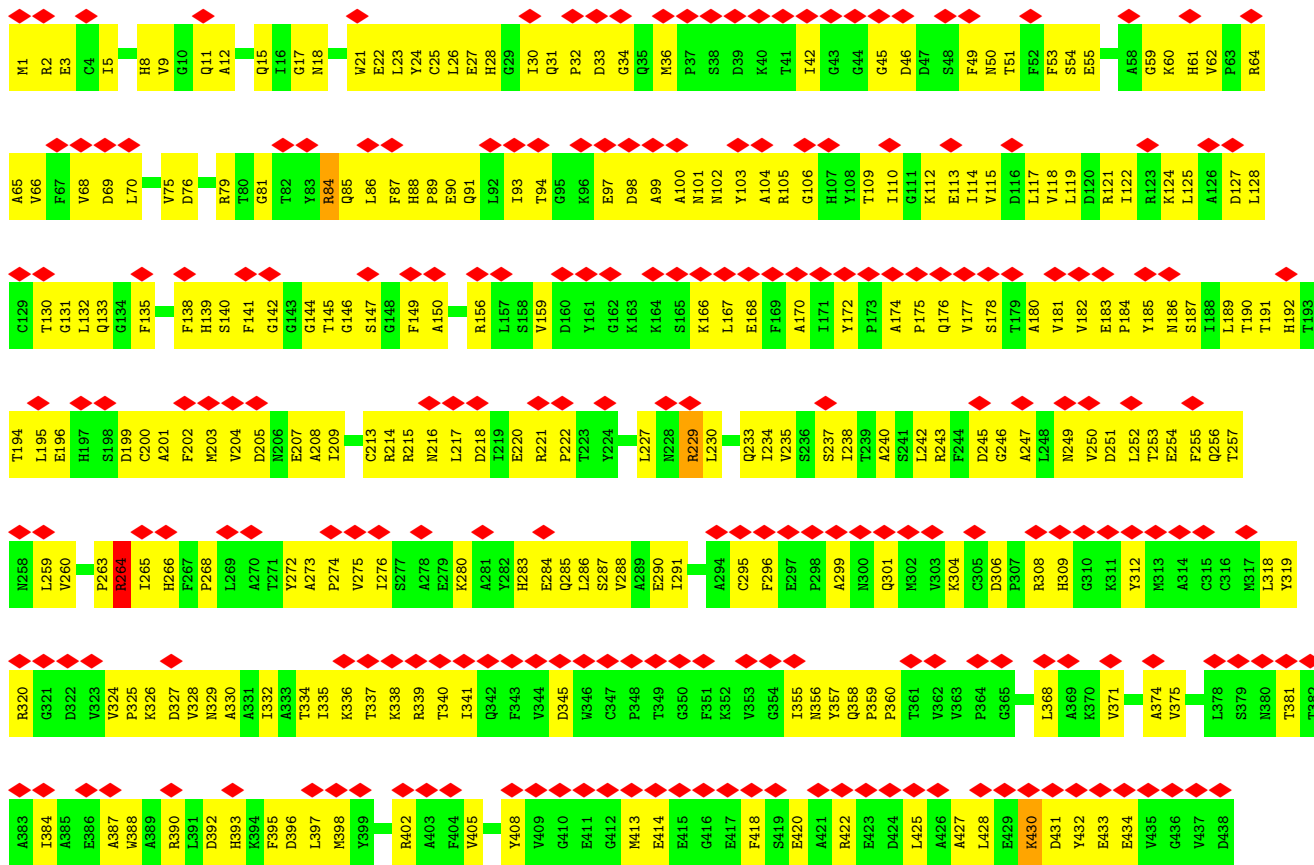
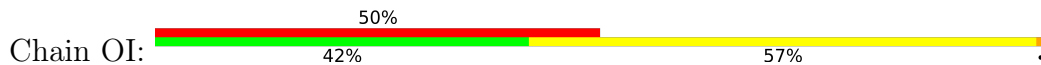
● Molecule 2: Detyrosinated tubulin alpha-3 chain



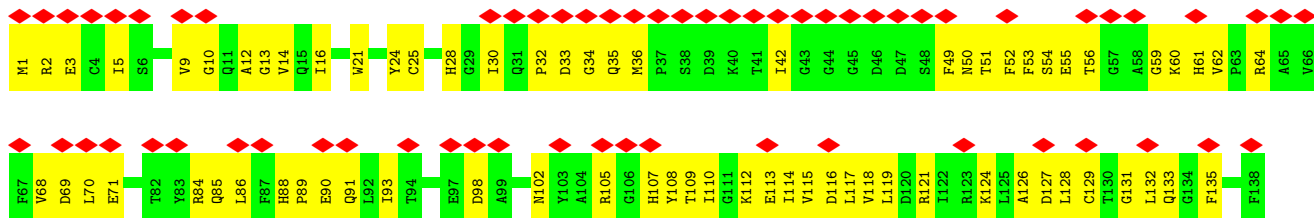
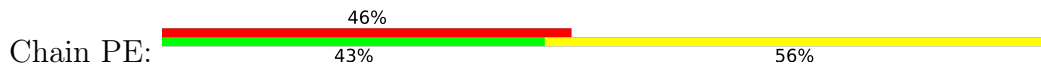


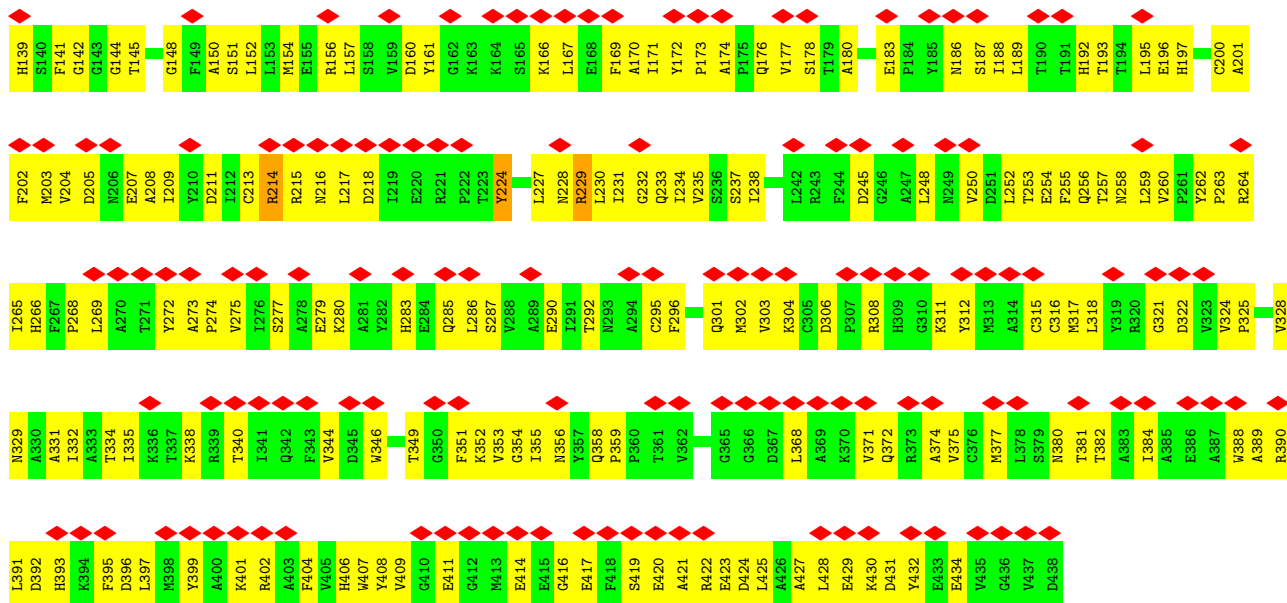


• Molecule 2: Detyrosinated tubulin alpha-3 chain

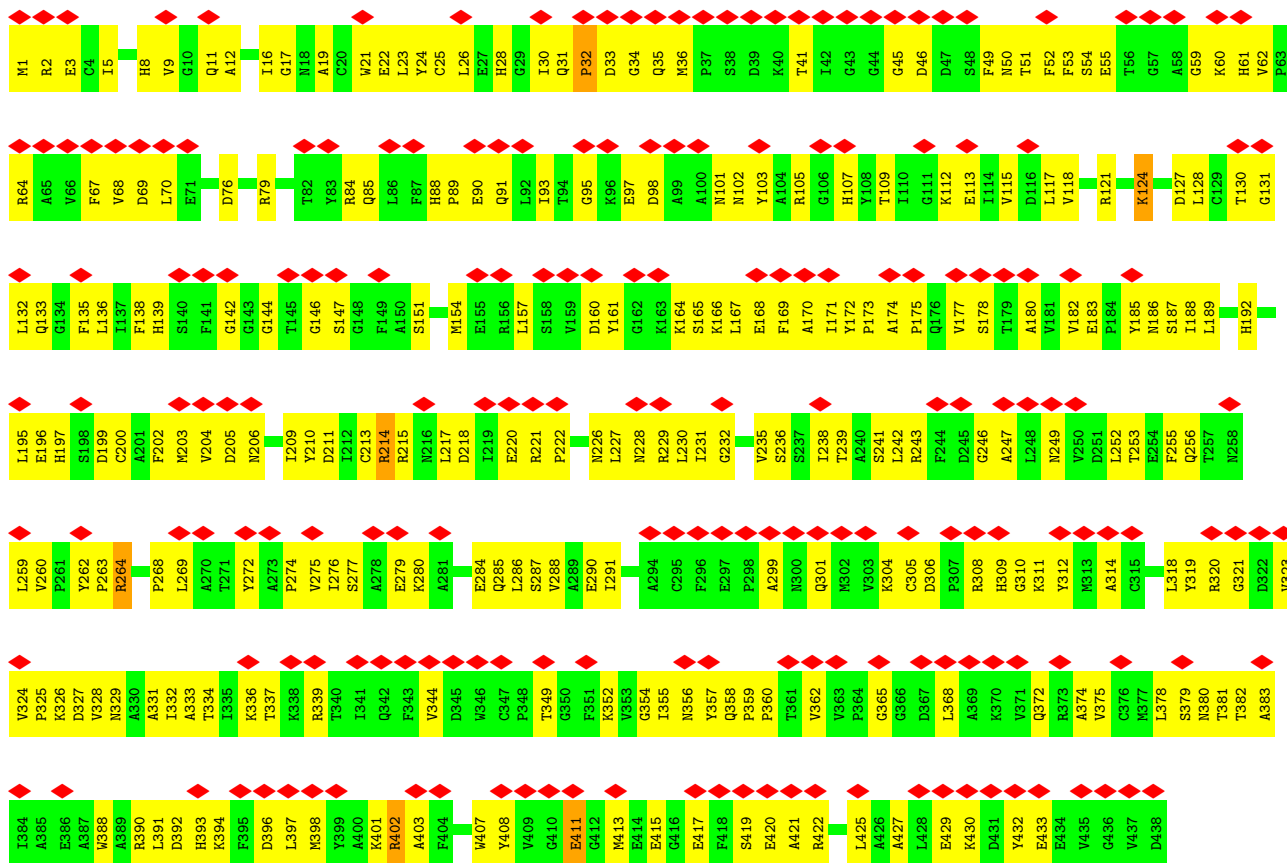
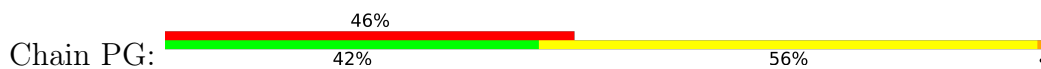


• Molecule 2: Detyrosinated tubulin alpha-3 chain

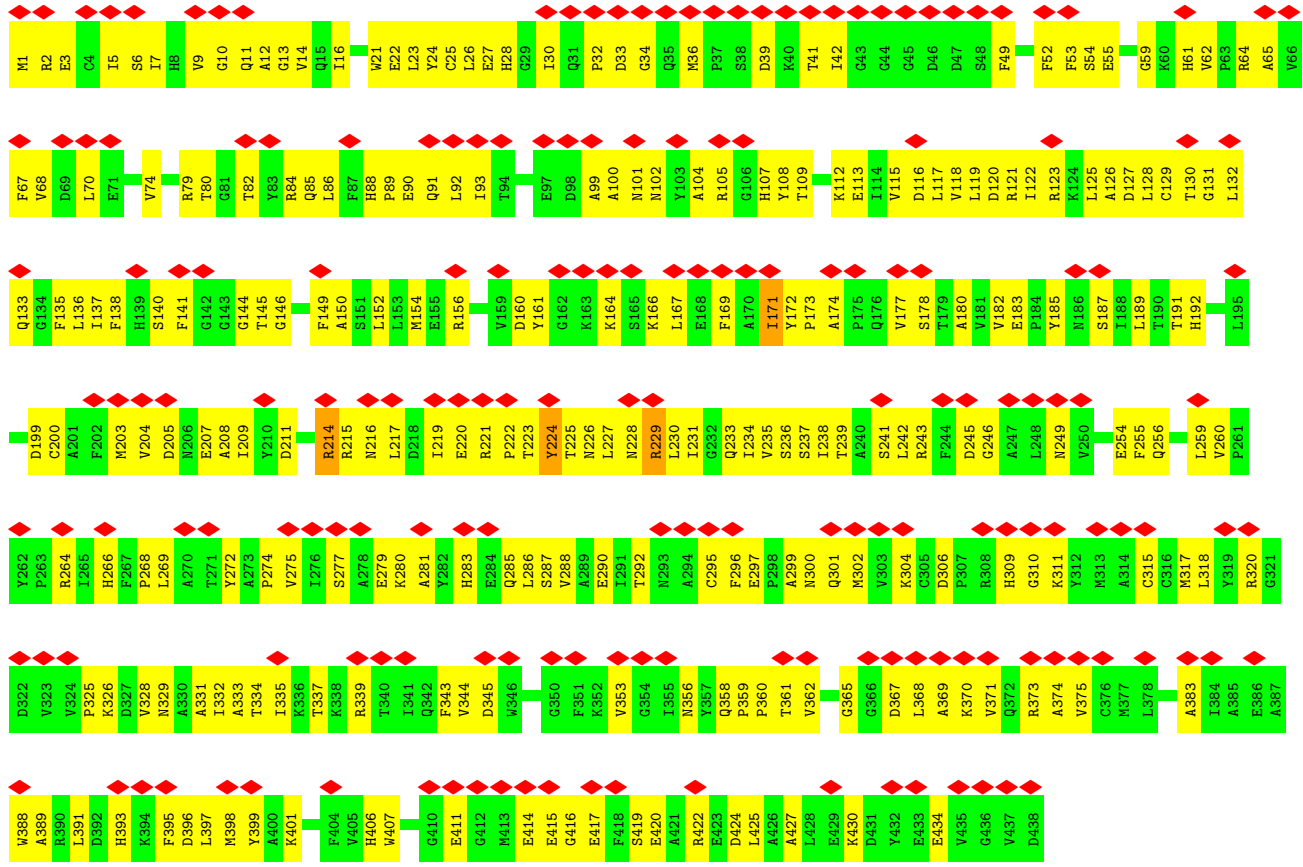




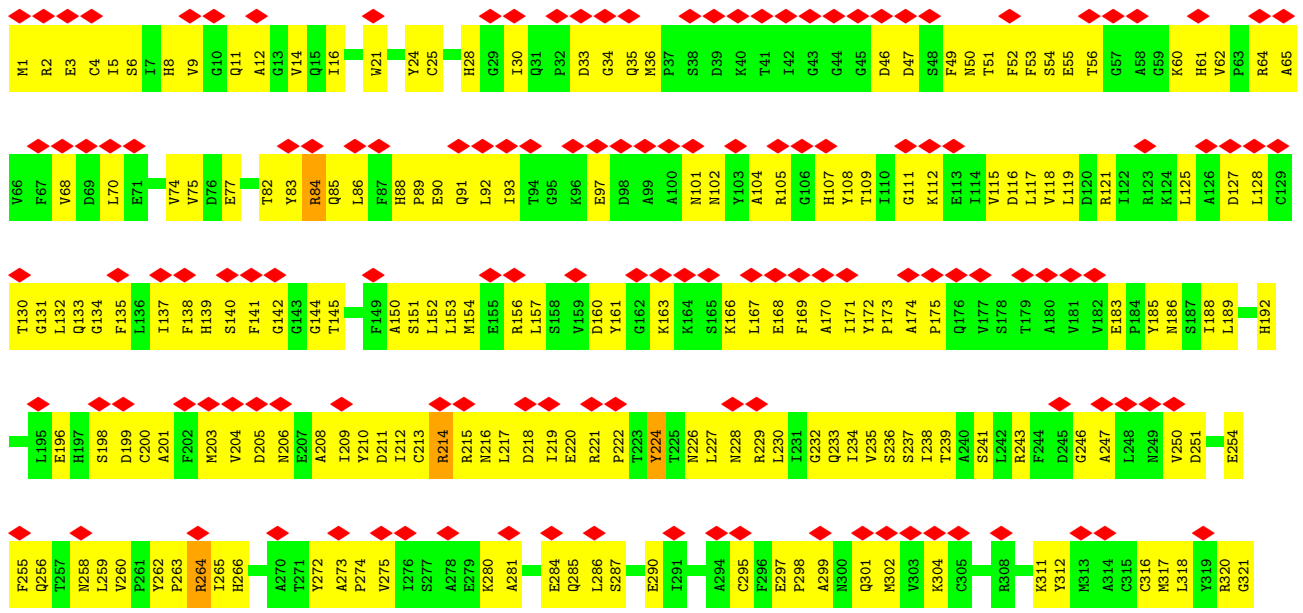
• Molecule 2: Detyrosinated tubulin alpha-3 chain

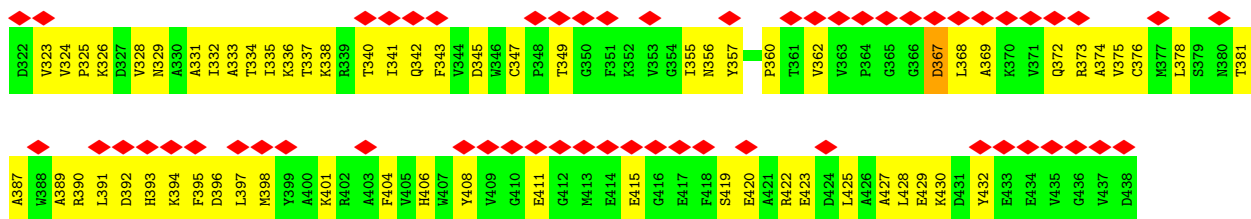


• Molecule 2: Detyrosinated tubulin alpha-3 chain

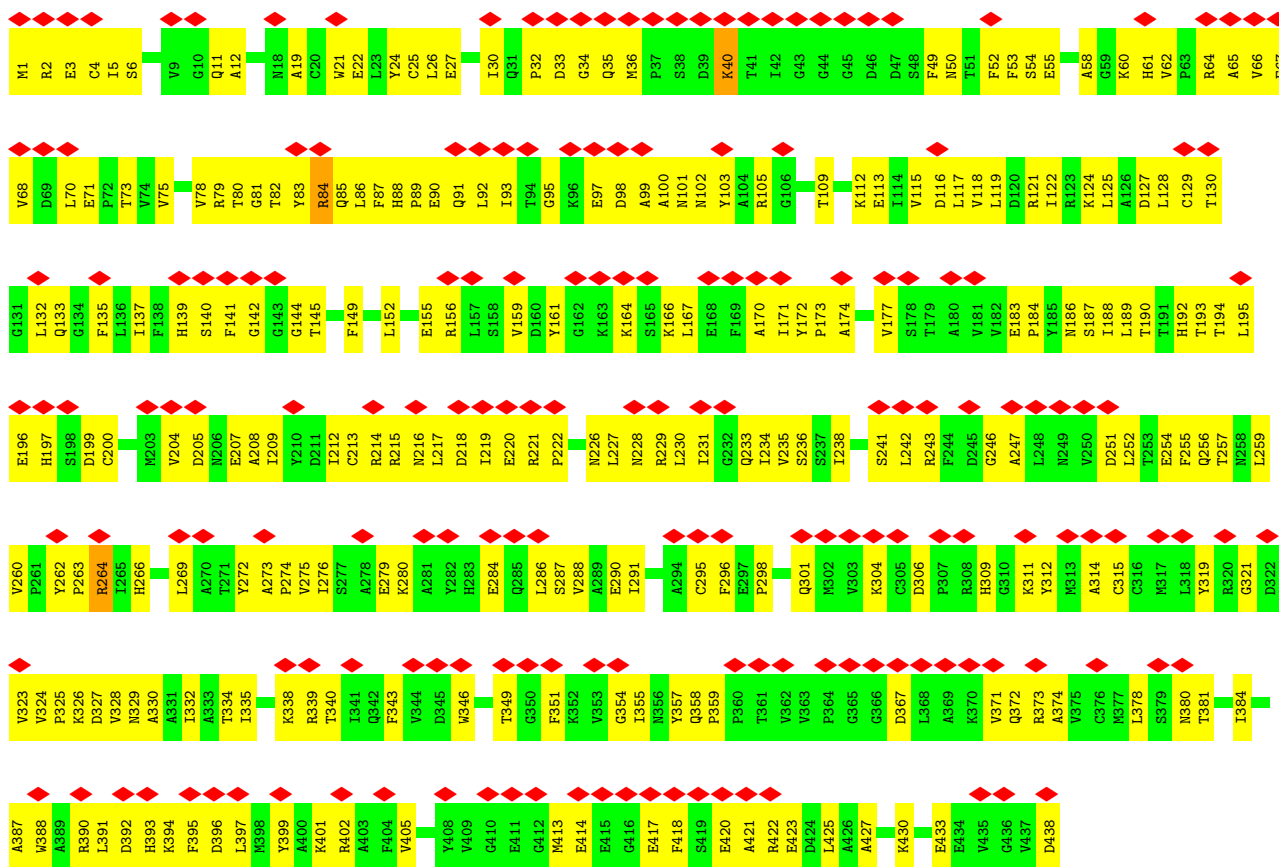
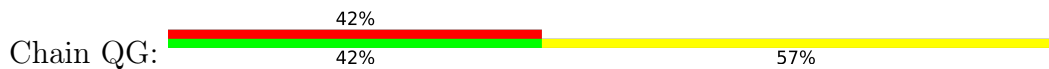


• Molecule 2: Detyrosinated tubulin alpha-3 chain

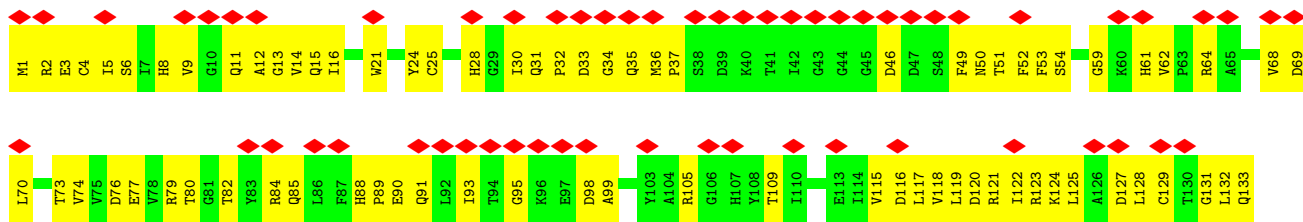
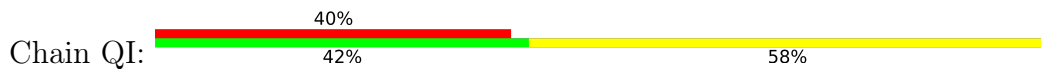


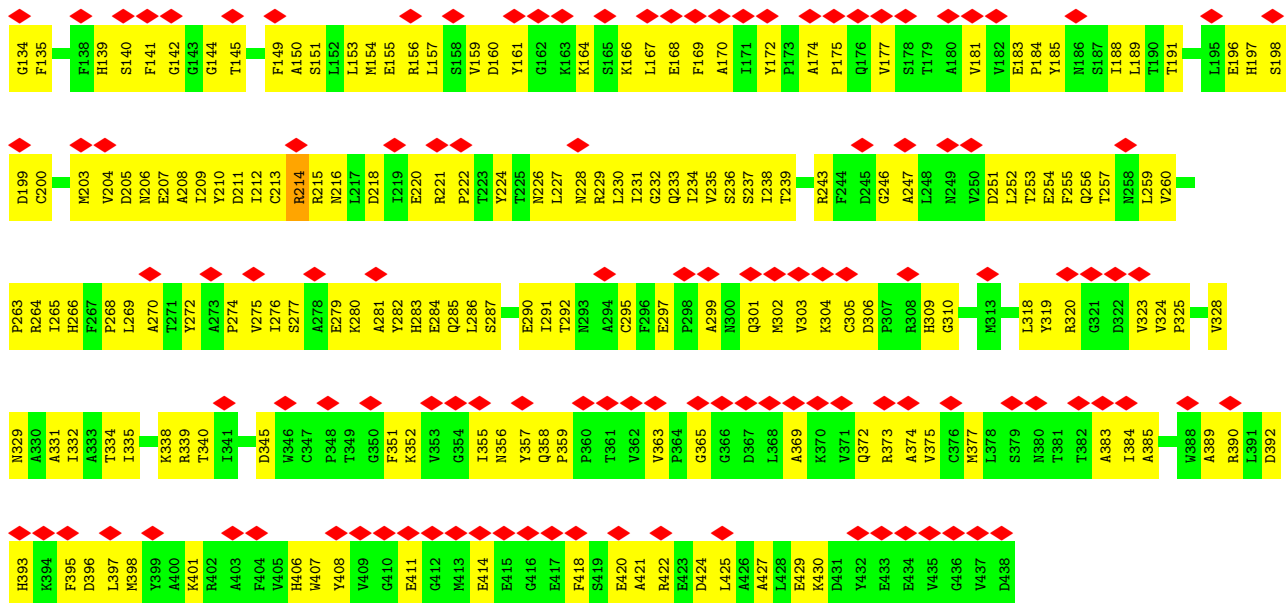


• Molecule 2: Detyrosinated tubulin alpha-3 chain

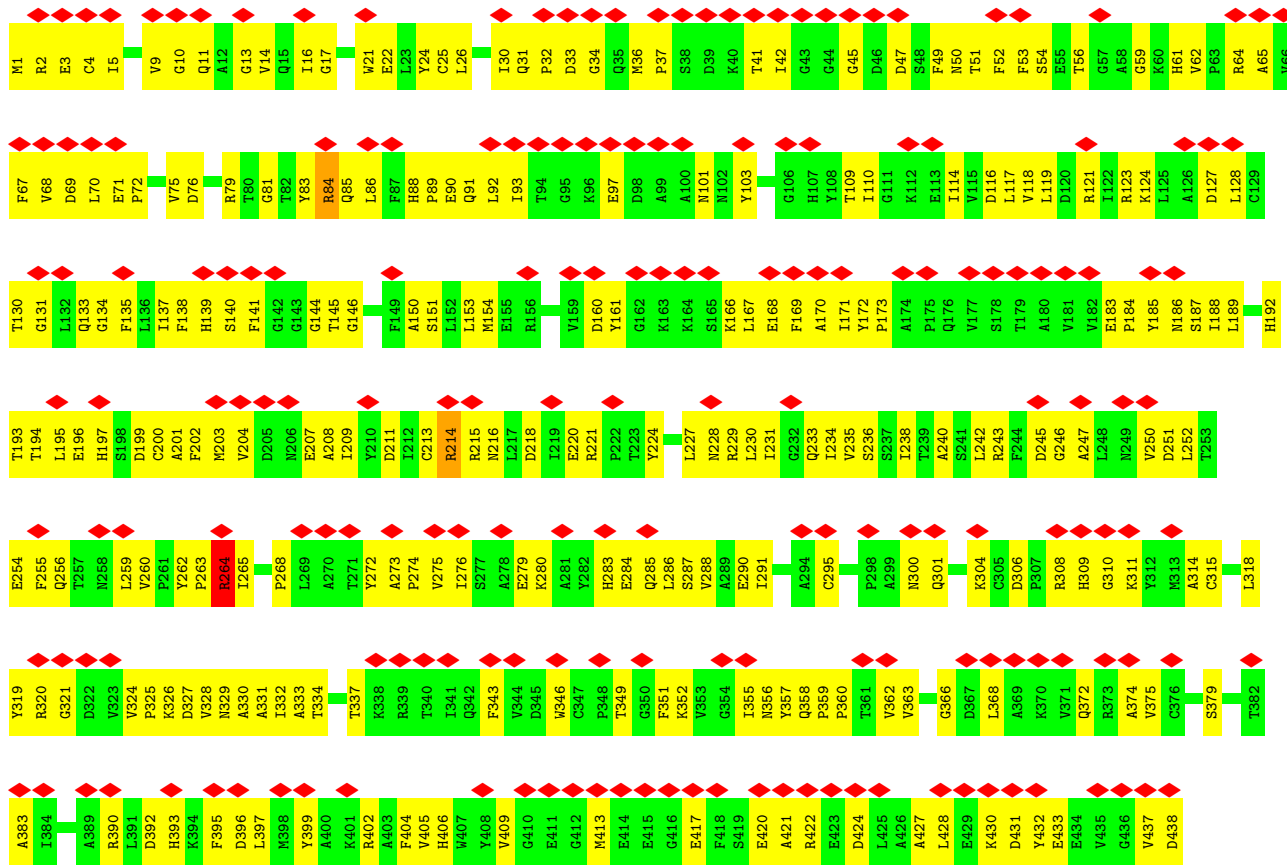
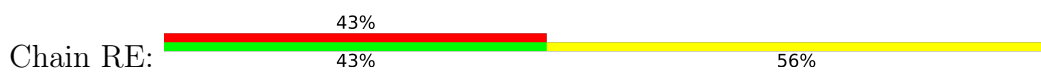


• Molecule 2: Detyrosinated tubulin alpha-3 chain

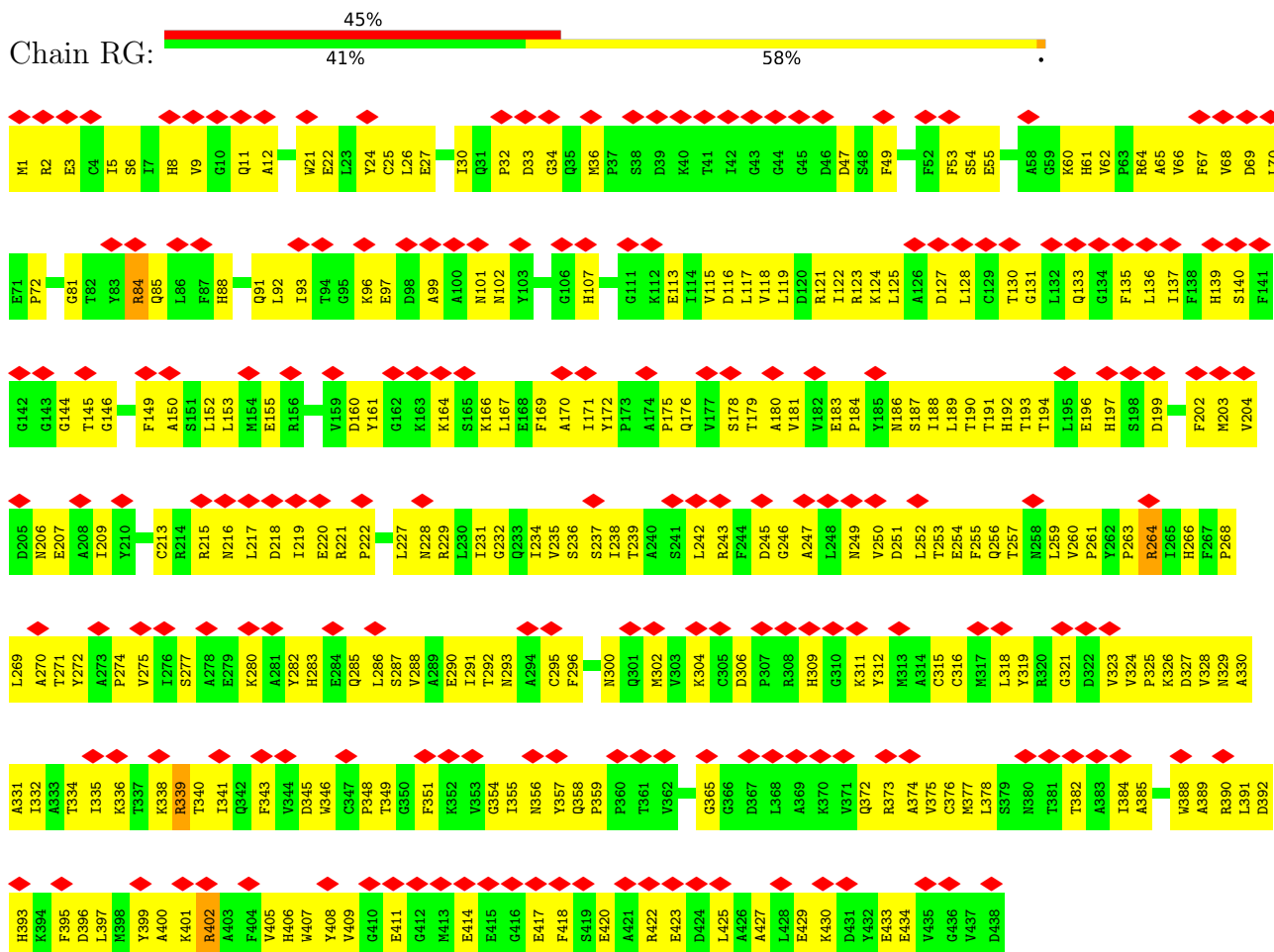




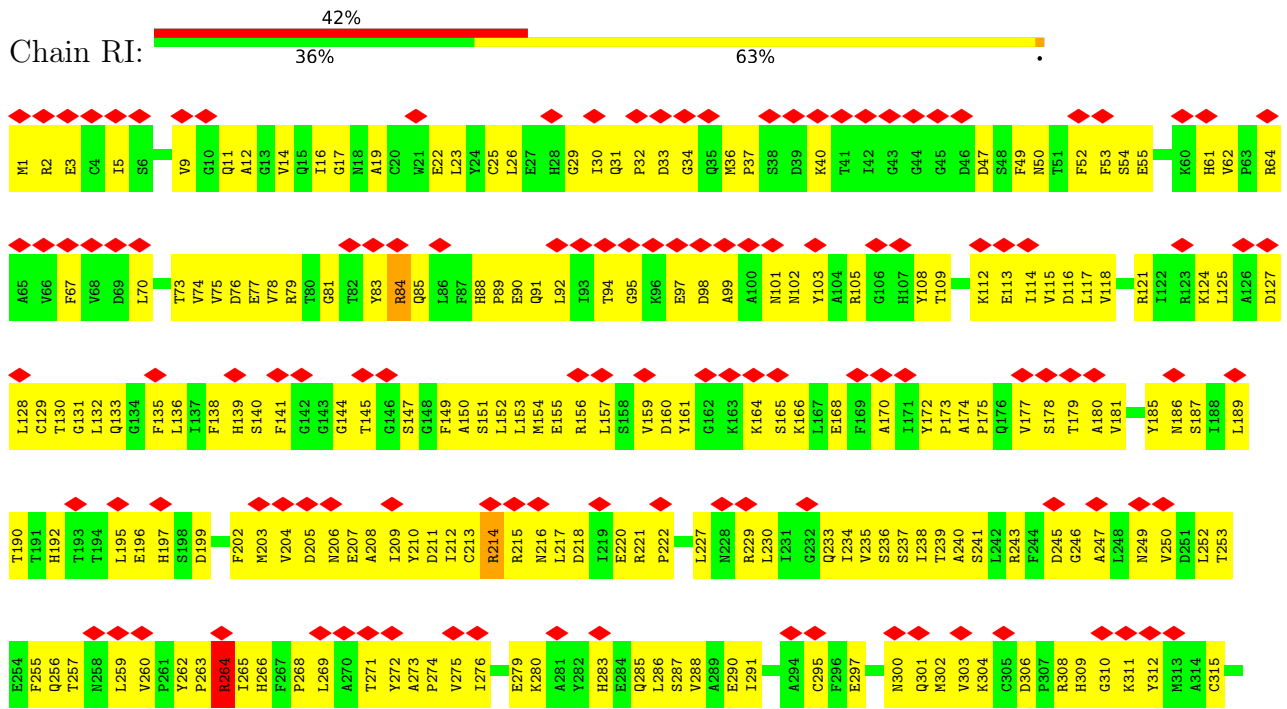
• Molecule 2: Detyrosinated tubulin alpha-3 chain

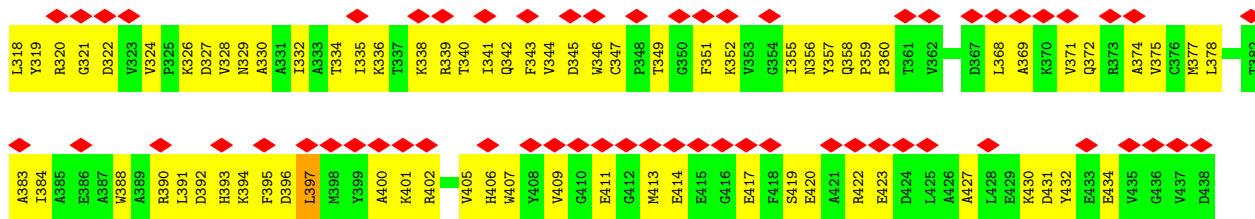


• Molecule 2: Detyrosinated tubulin alpha-3 chain

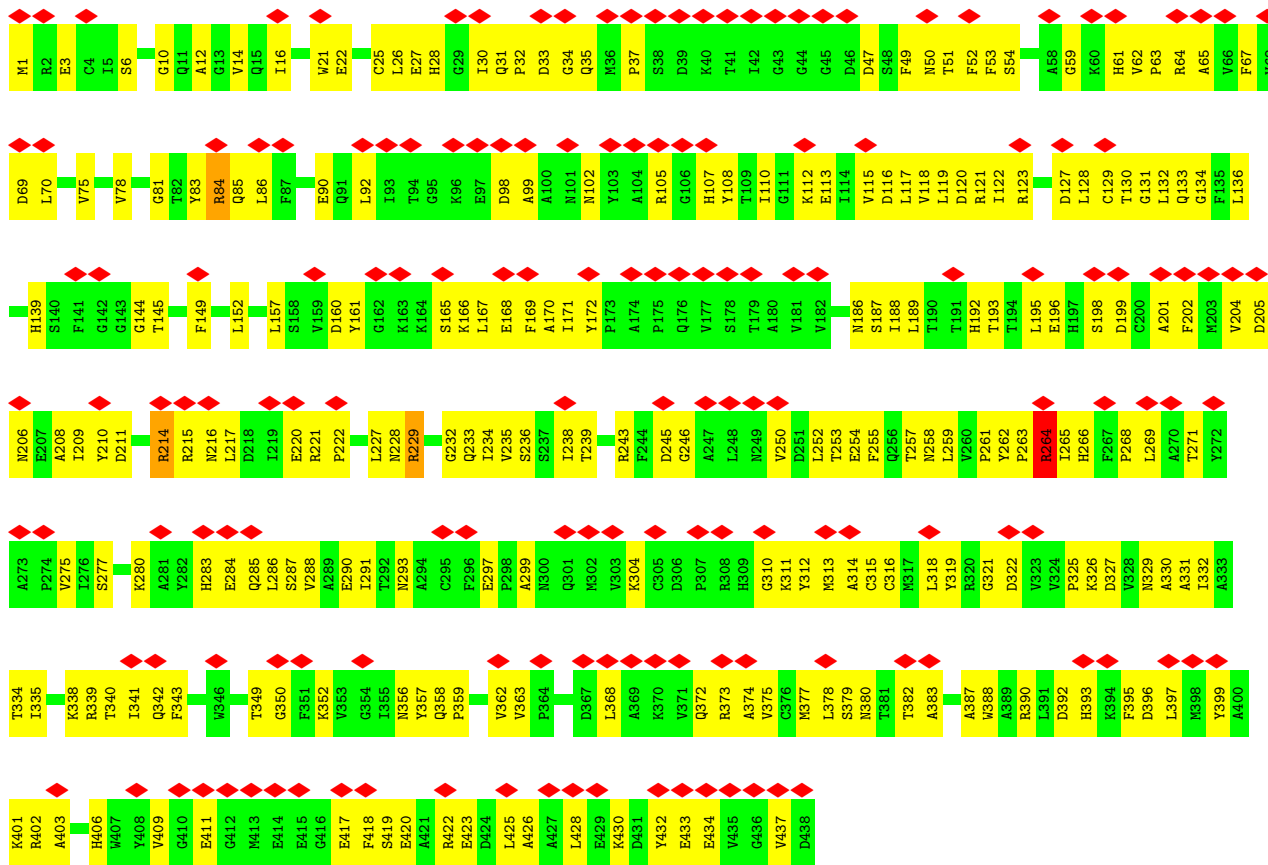


• Molecule 2: Detyrosinated tubulin alpha-3 chain

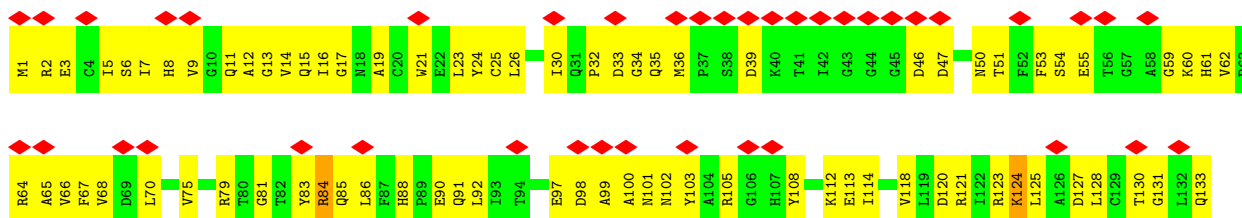


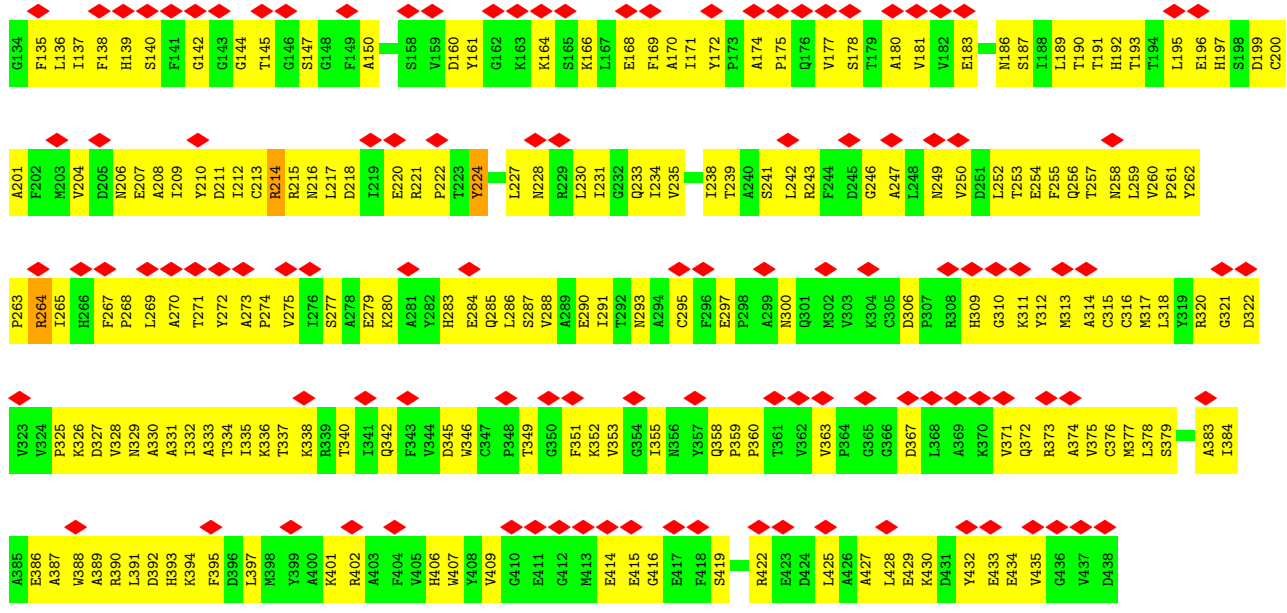


• Molecule 2: Detyrosinated tubulin alpha-3 chain

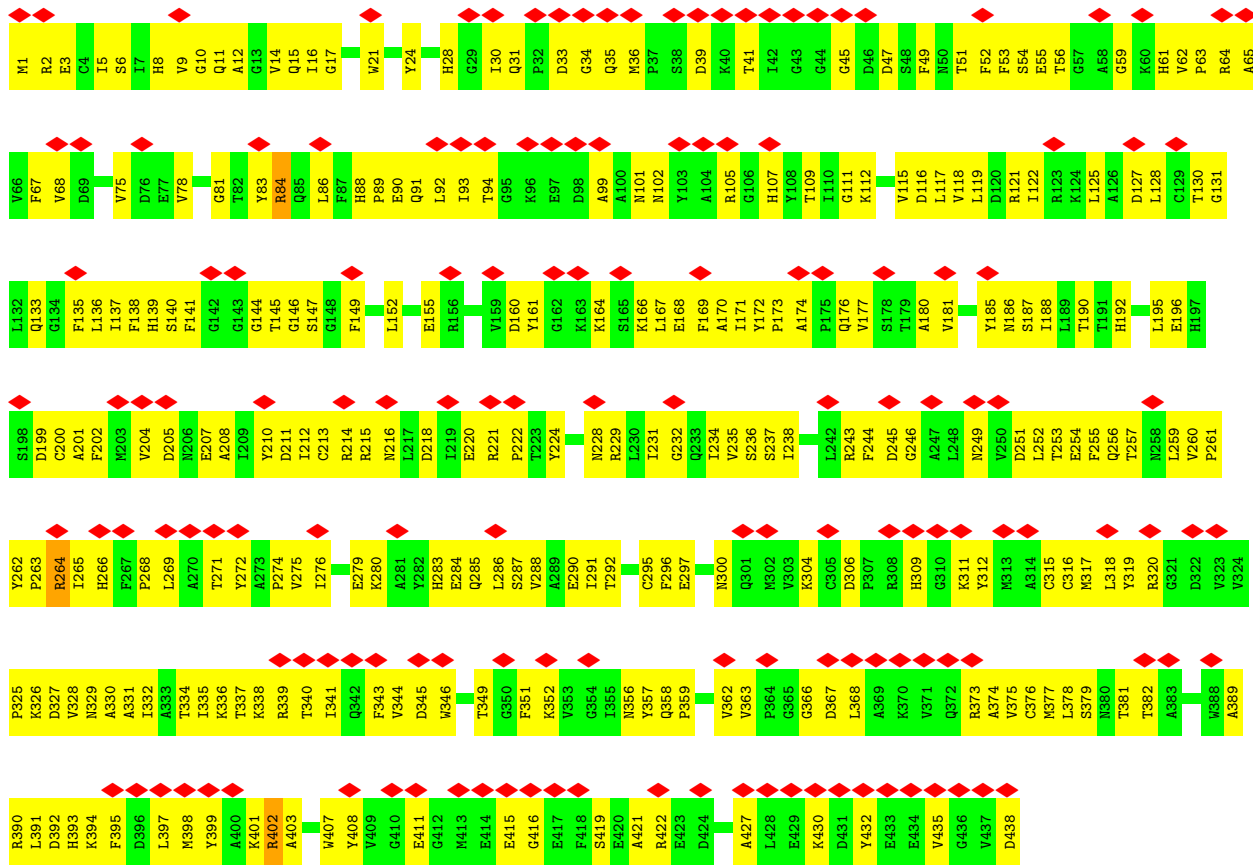


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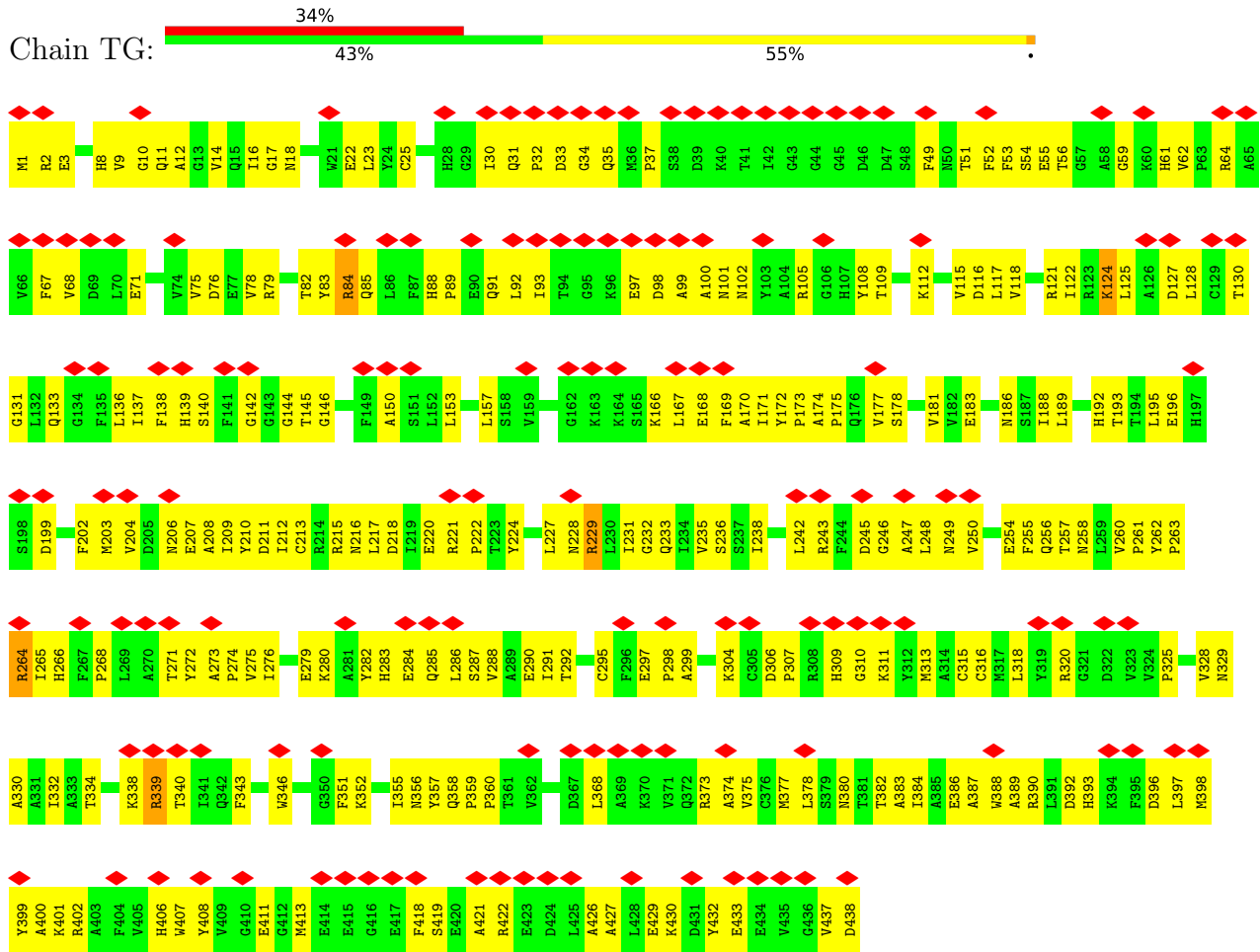


• Molecule 2: Detyrosinated tubulin alpha-3 chain

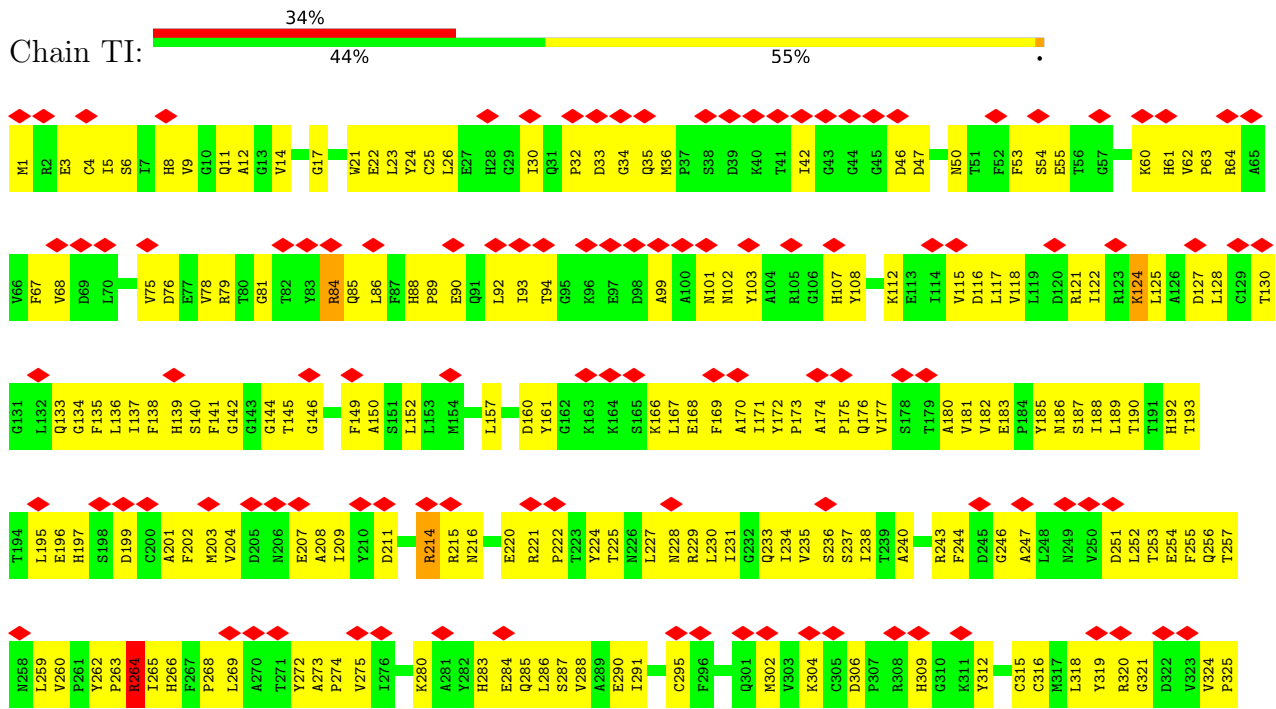


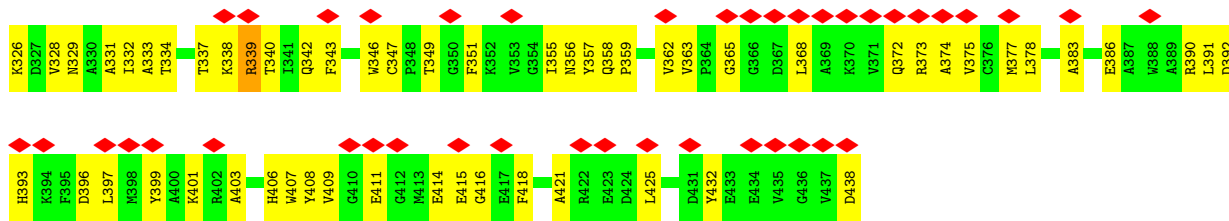
• Molecule 2: Detyrosinated tubulin alpha-3 chain



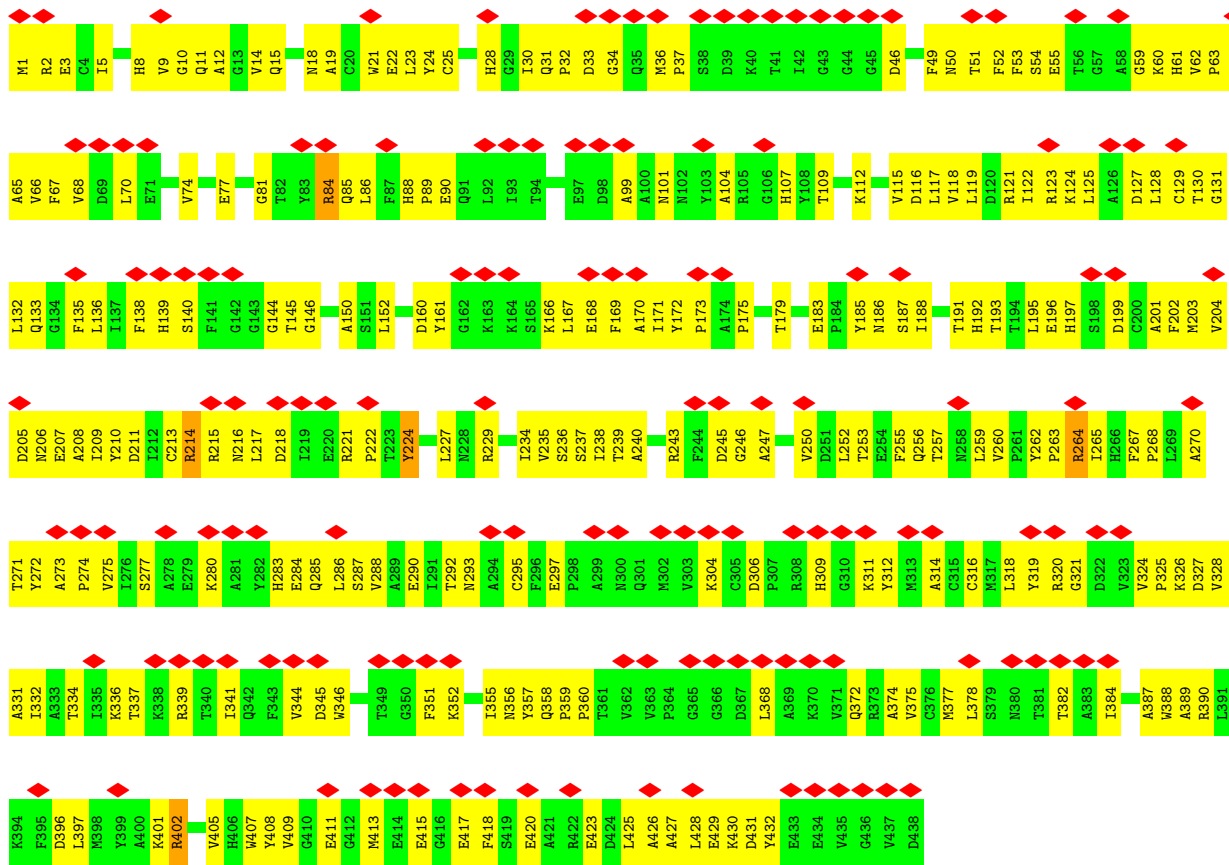


• Molecule 2: Detyrosinated tubulin alpha-3 chain

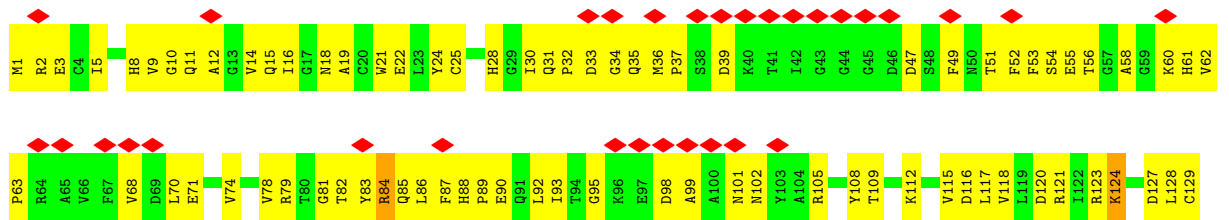


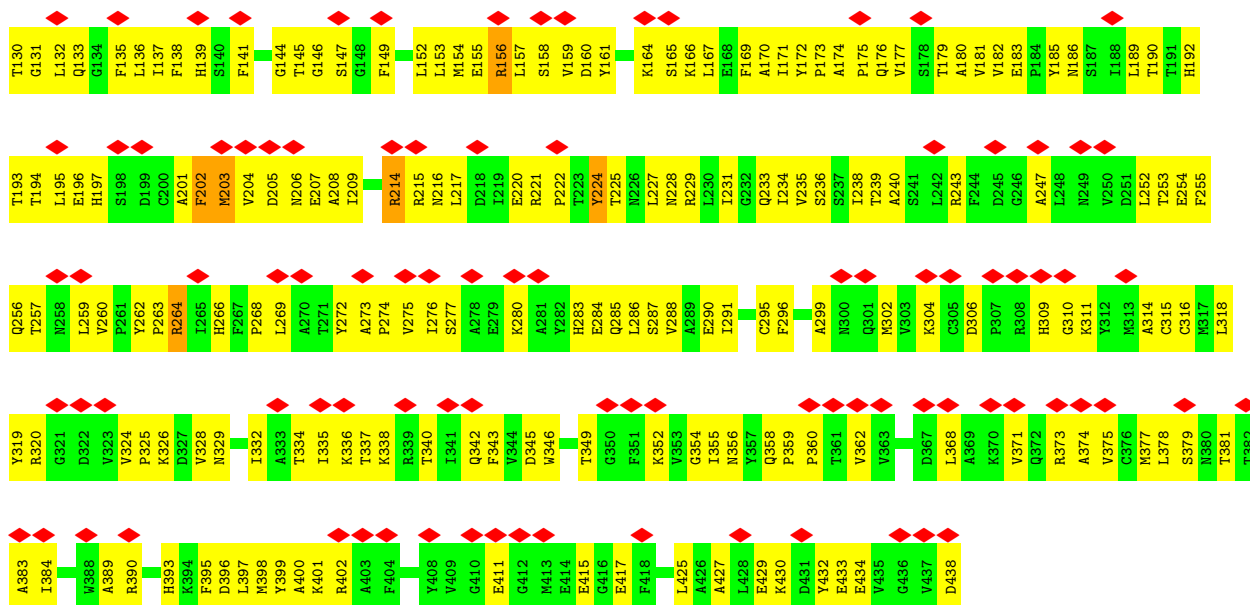


• Molecule 2: Detyrosinated tubulin alpha-3 chain

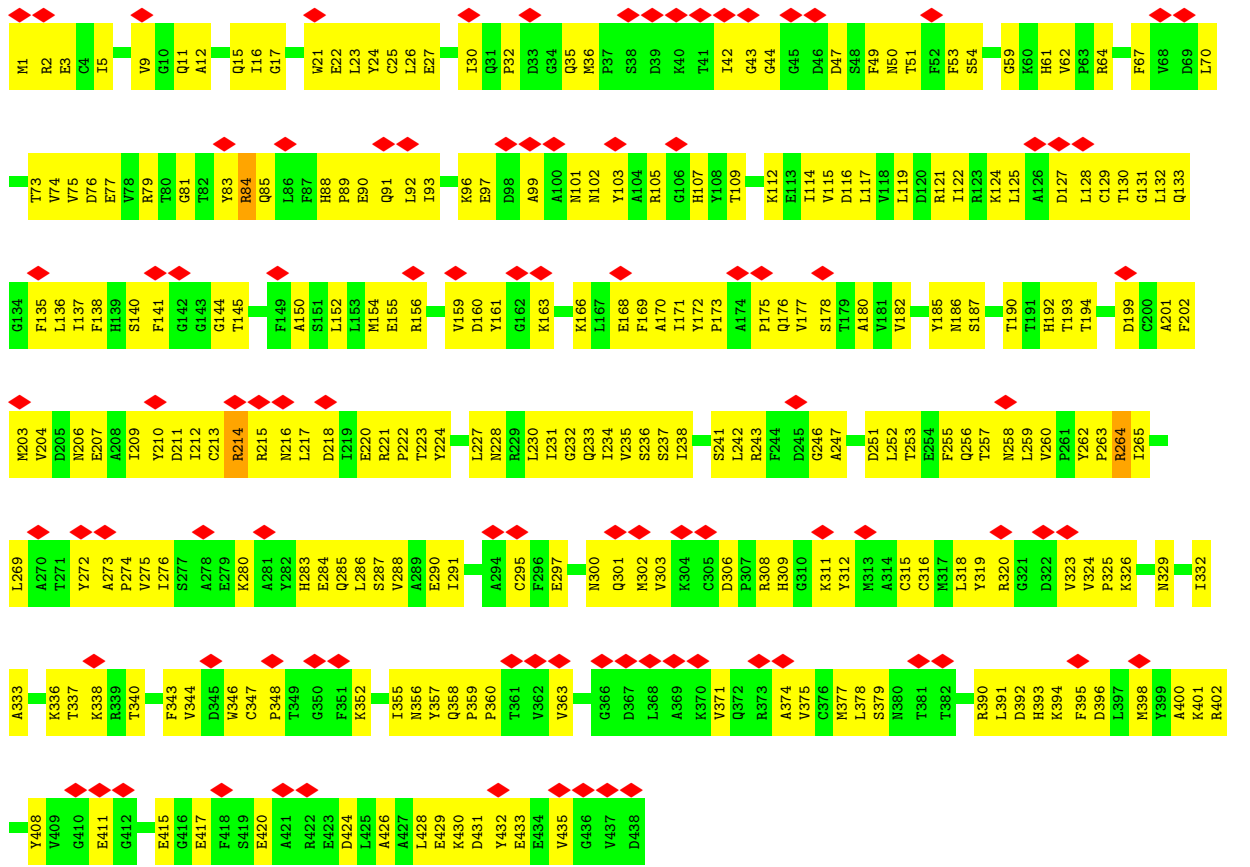


• Molecule 2: Detyrosinated tubulin alpha-3 chain

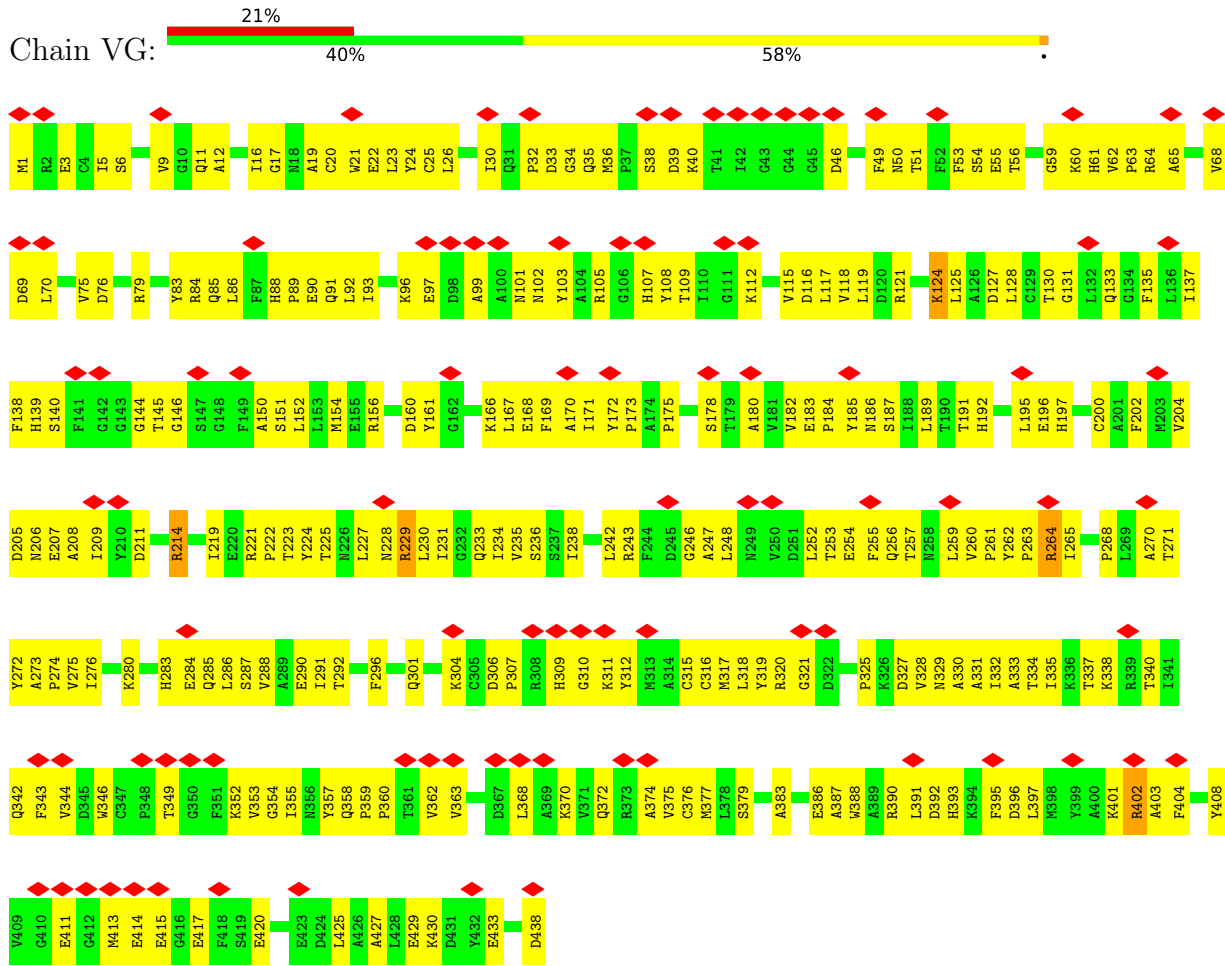




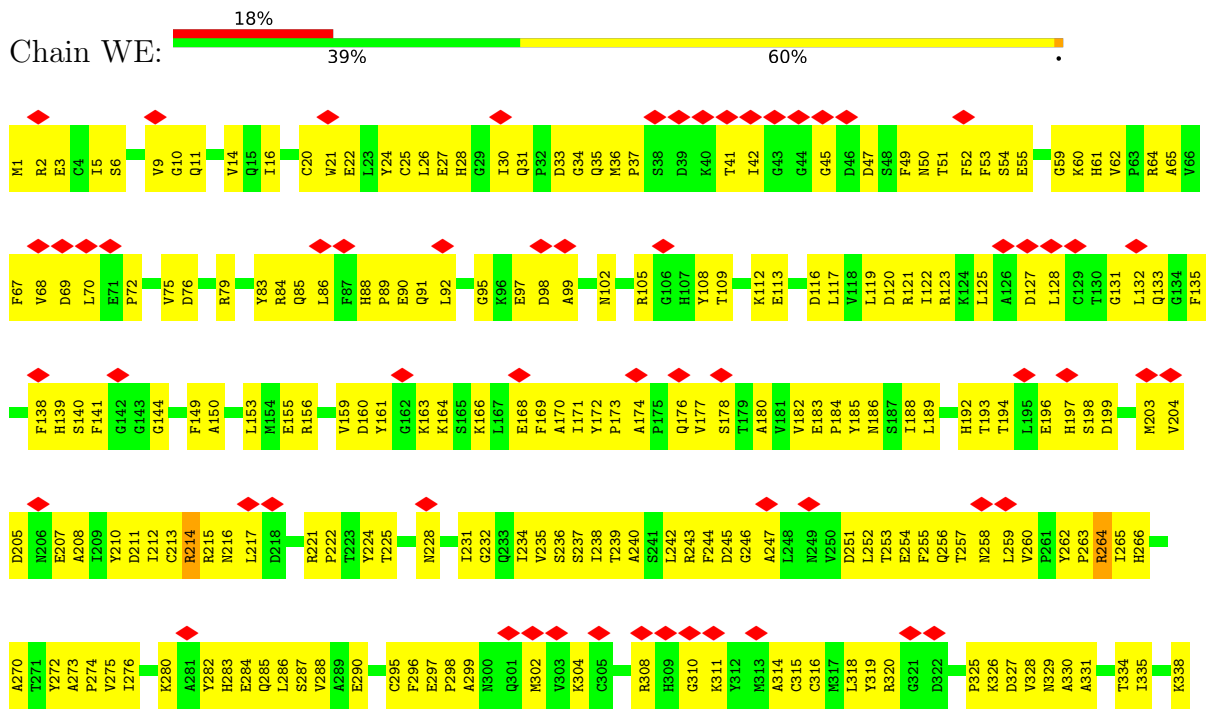
• Molecule 2: Detyrosinated tubulin alpha-3 chain

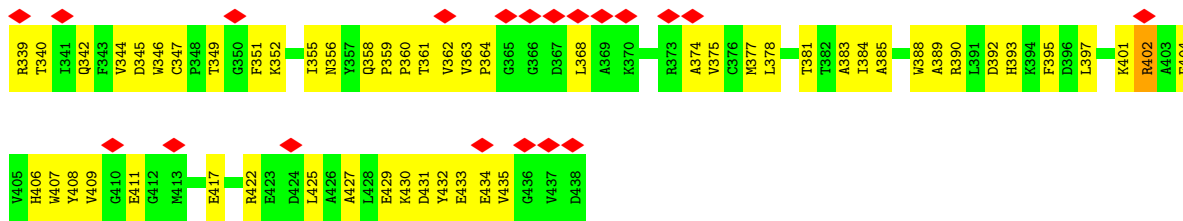


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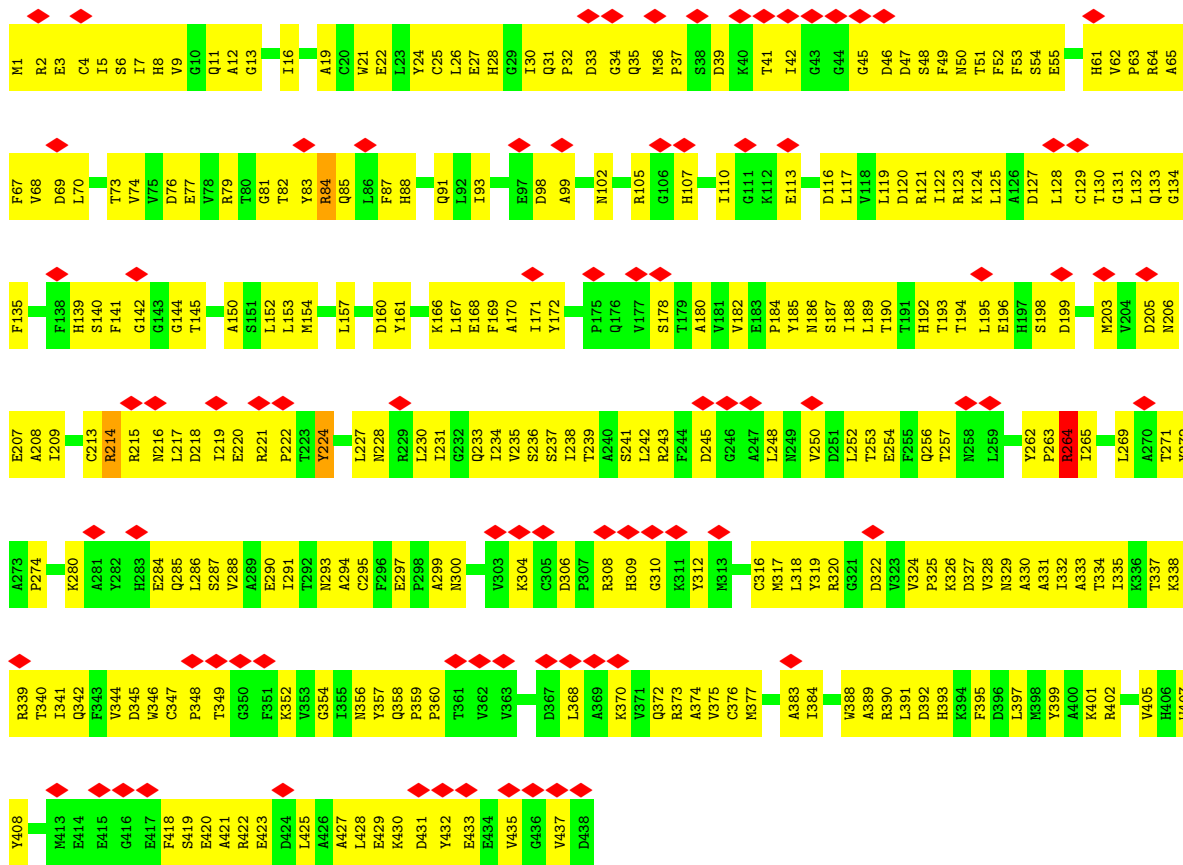


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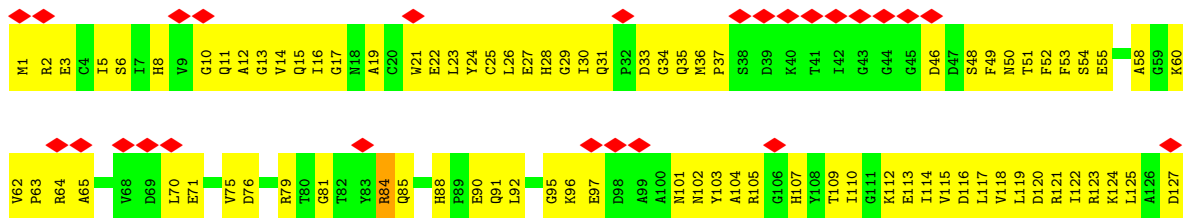


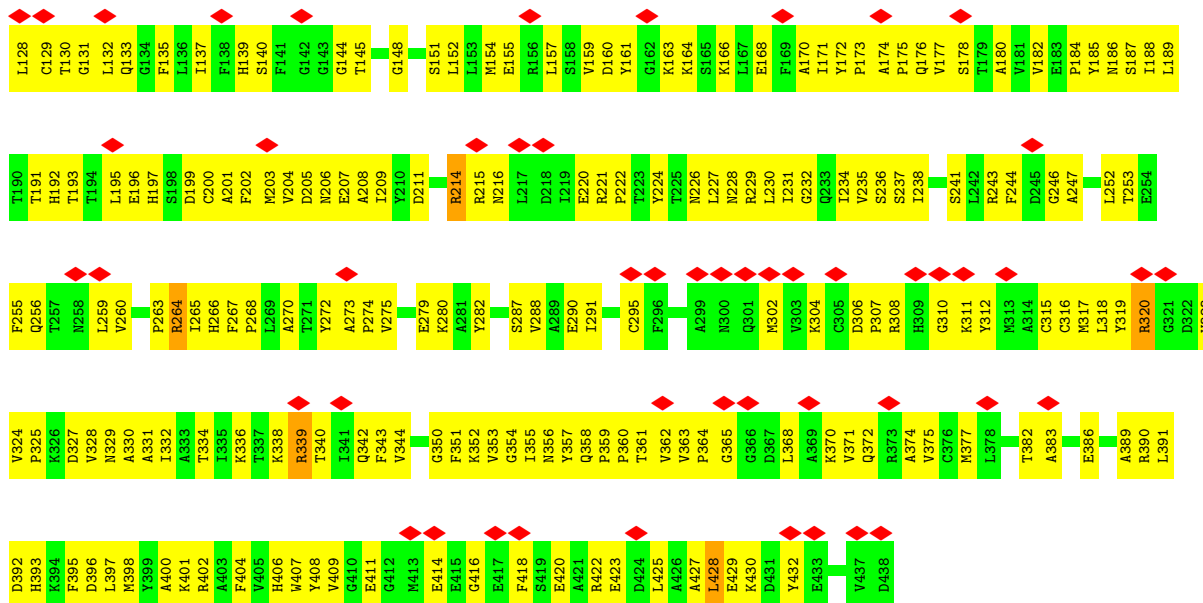


• Molecule 2: Detyrosinated tubulin alpha-3 chain

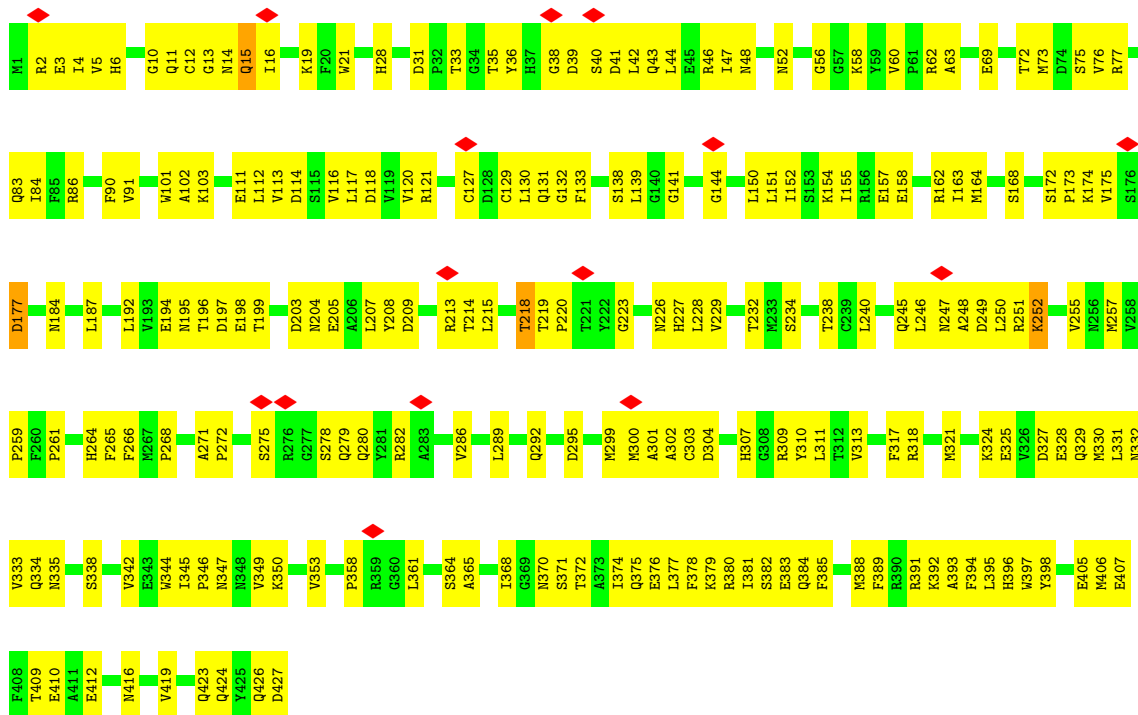


• Molecule 2: Detyrosinated tubulin alpha-3 chain

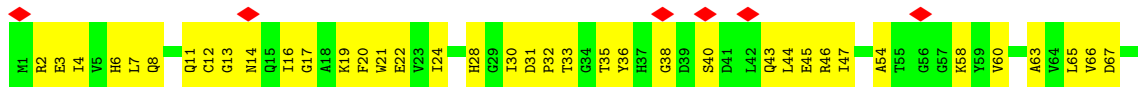


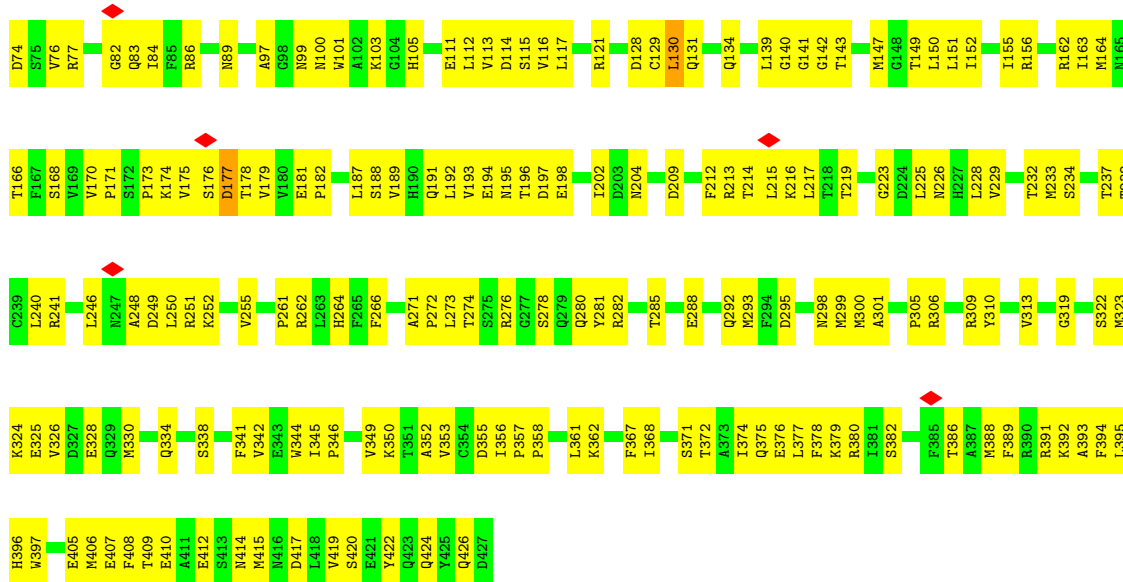


• Molecule 3: Tubulin beta-4B chain

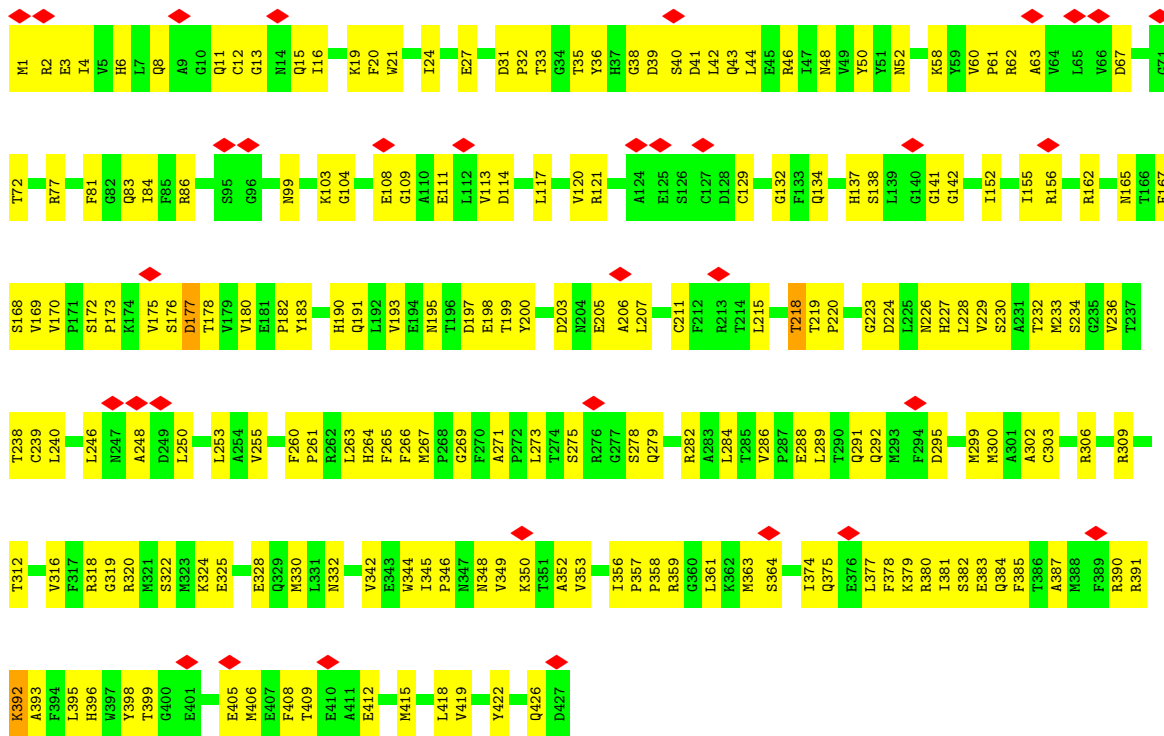


• Molecule 3: Tubulin beta-4B chain





• Molecule 3: Tubulin beta-4B chain

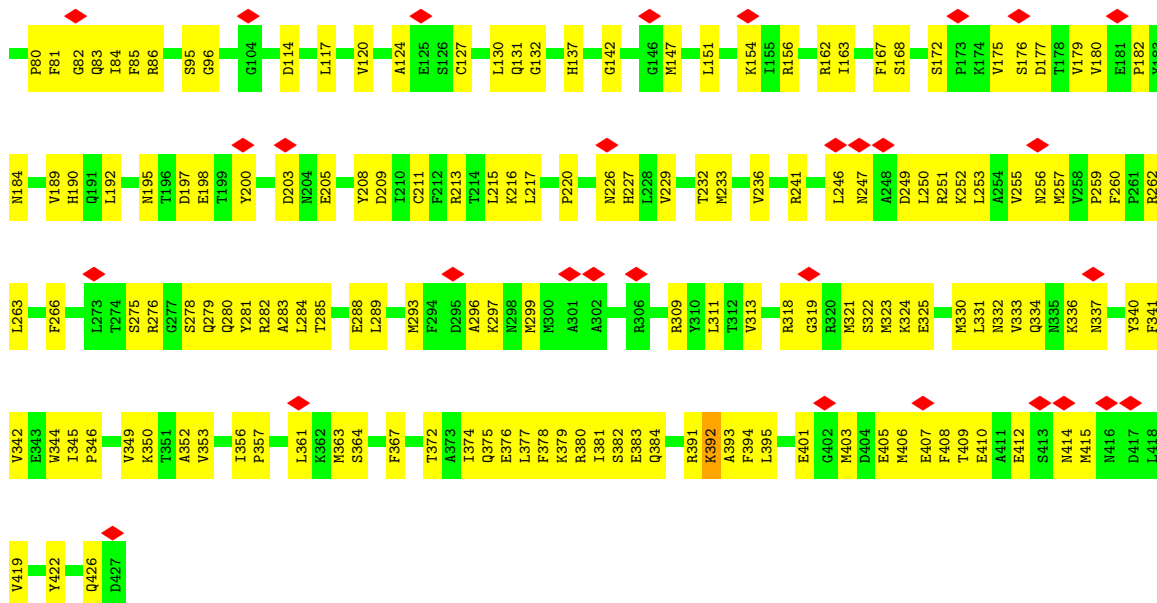


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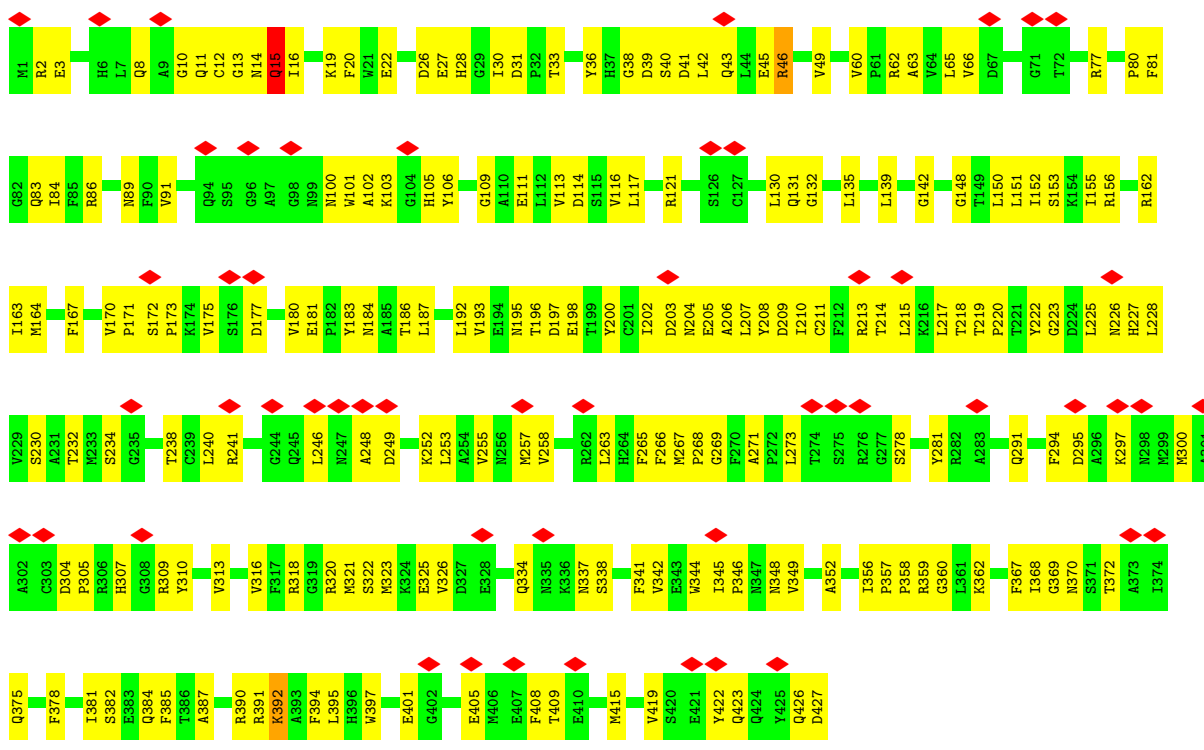








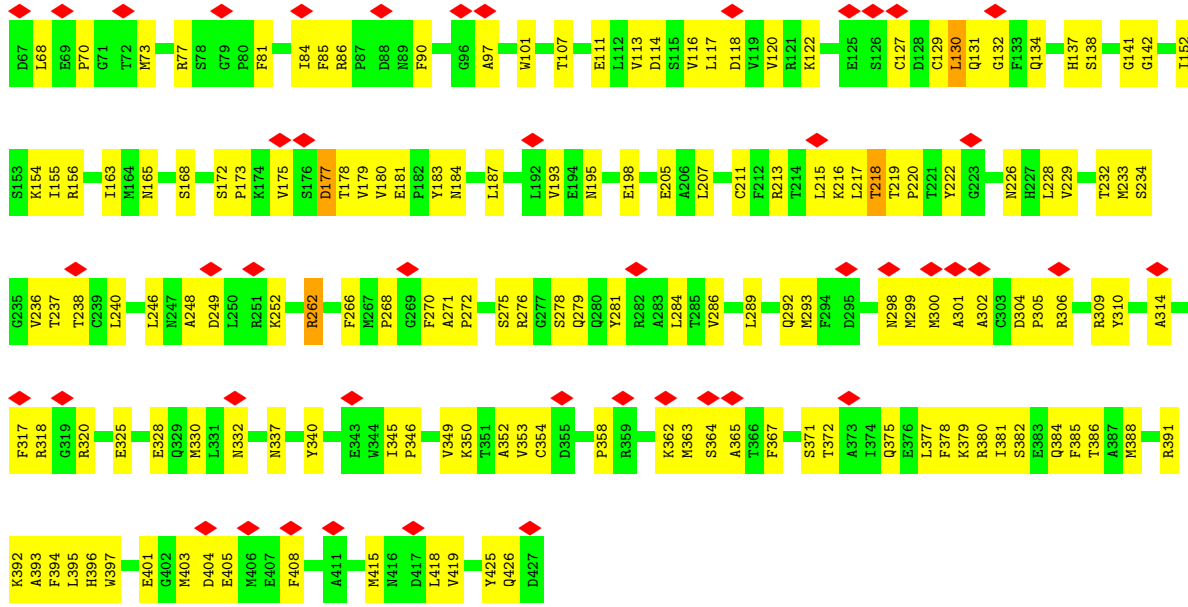
• Molecule 3: Tubulin beta-4B chain



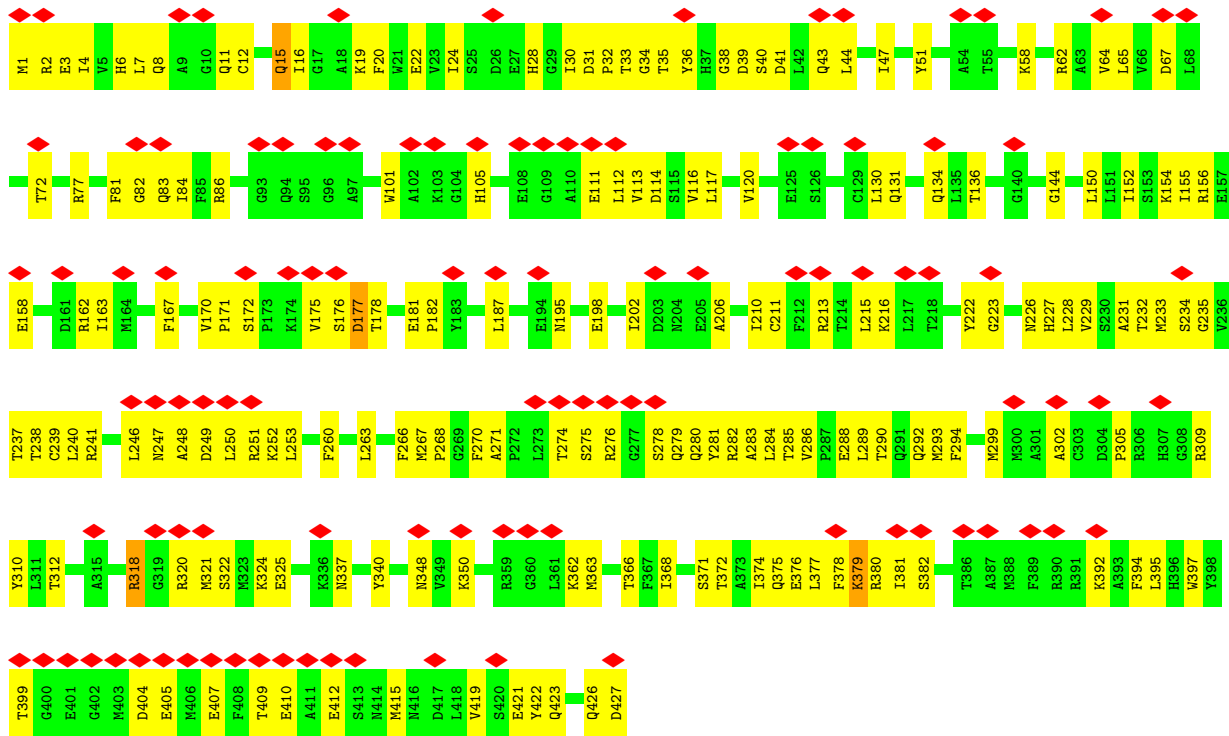
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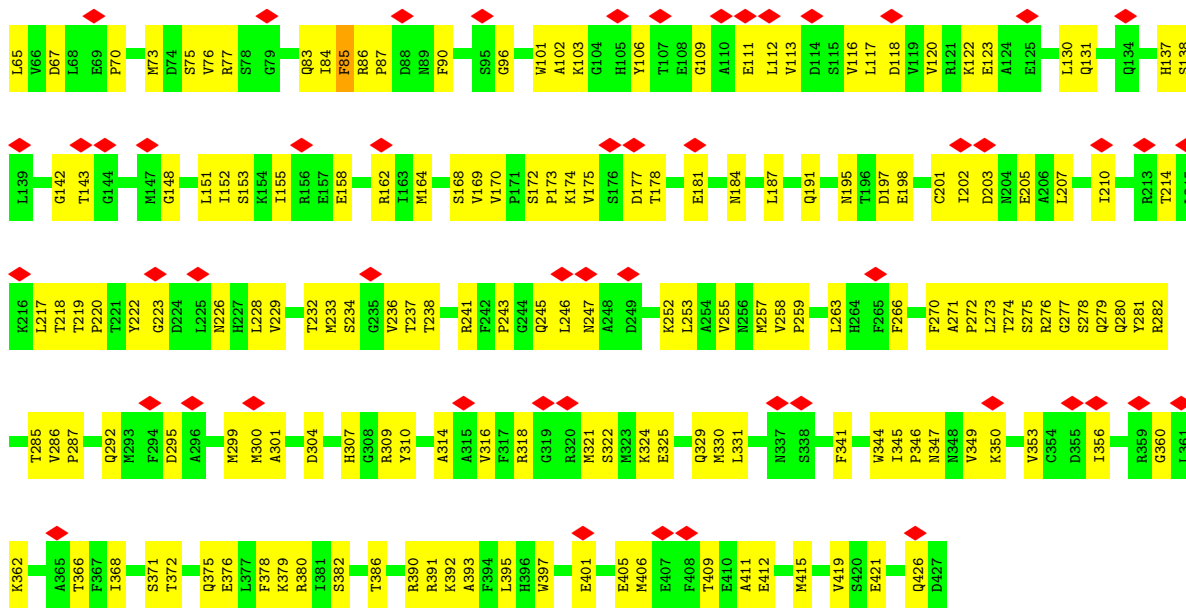


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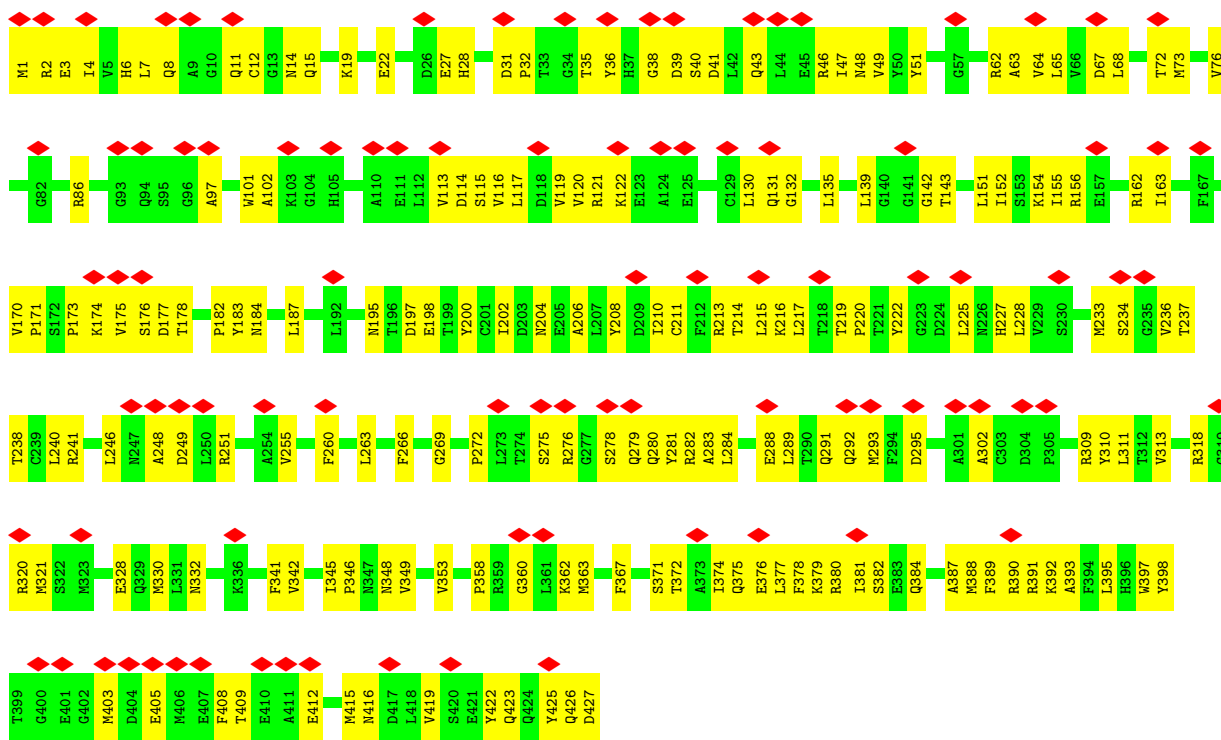


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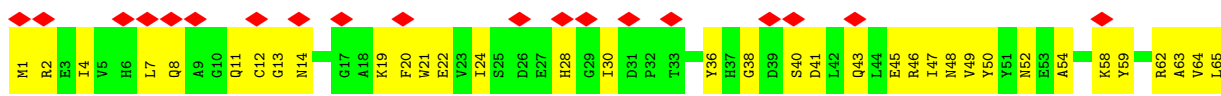


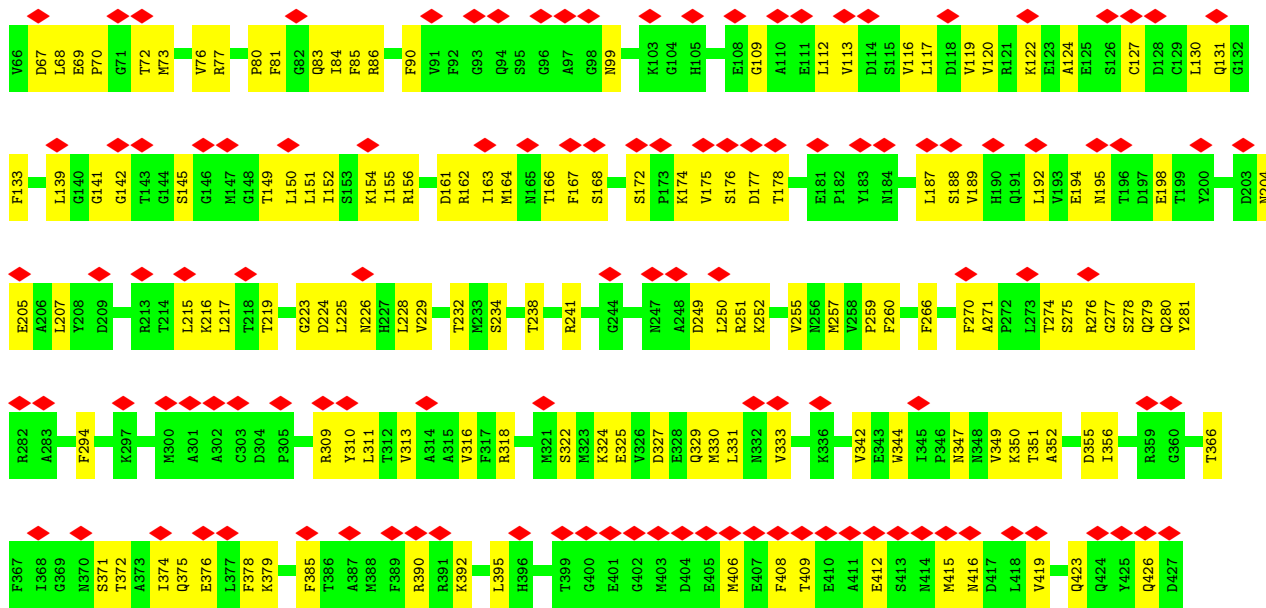


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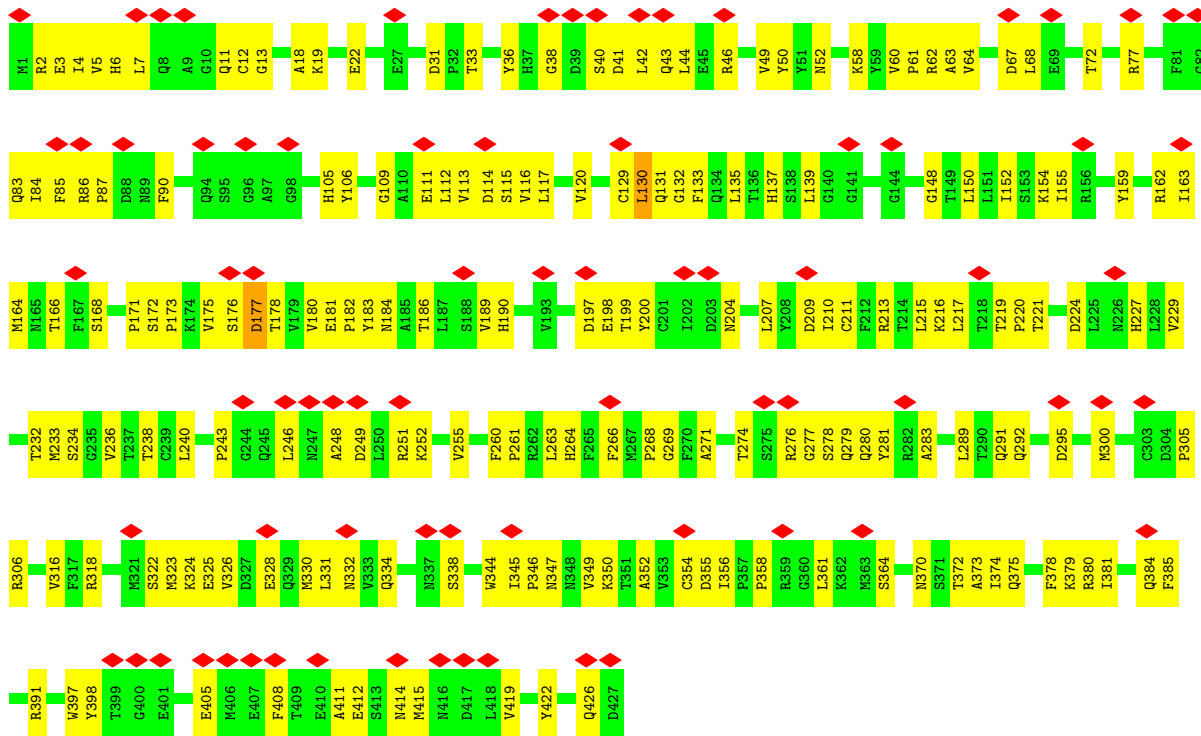


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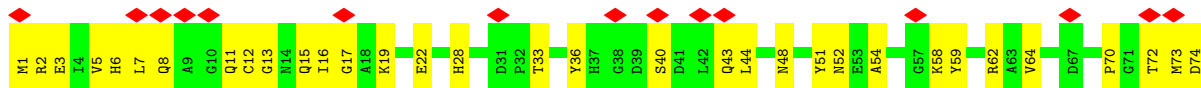


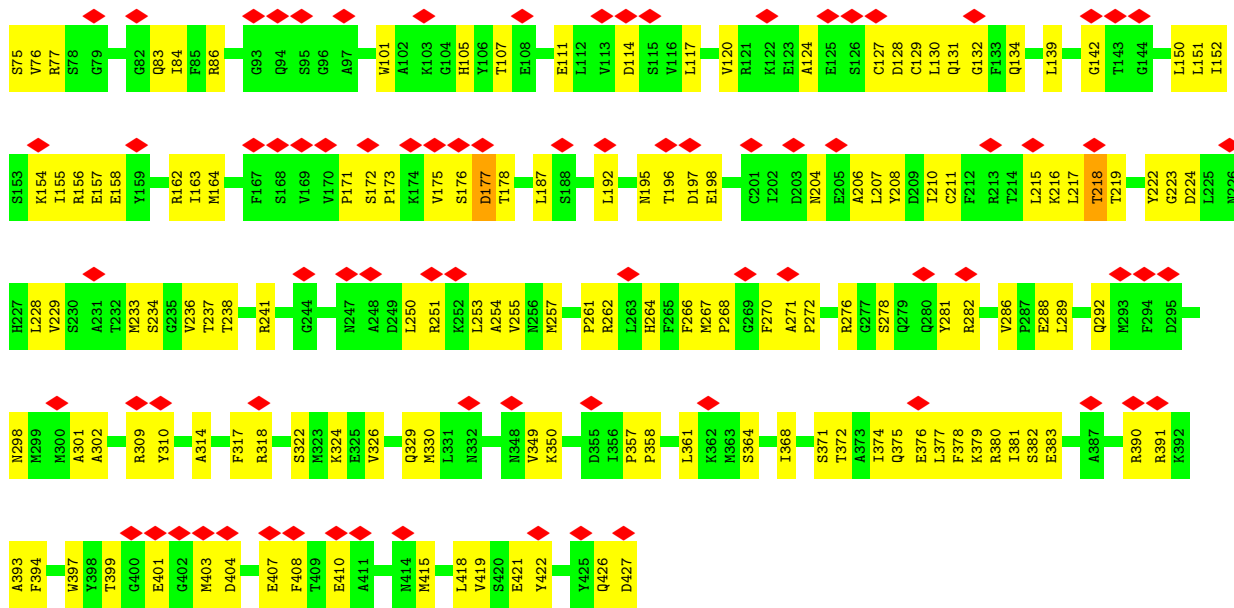


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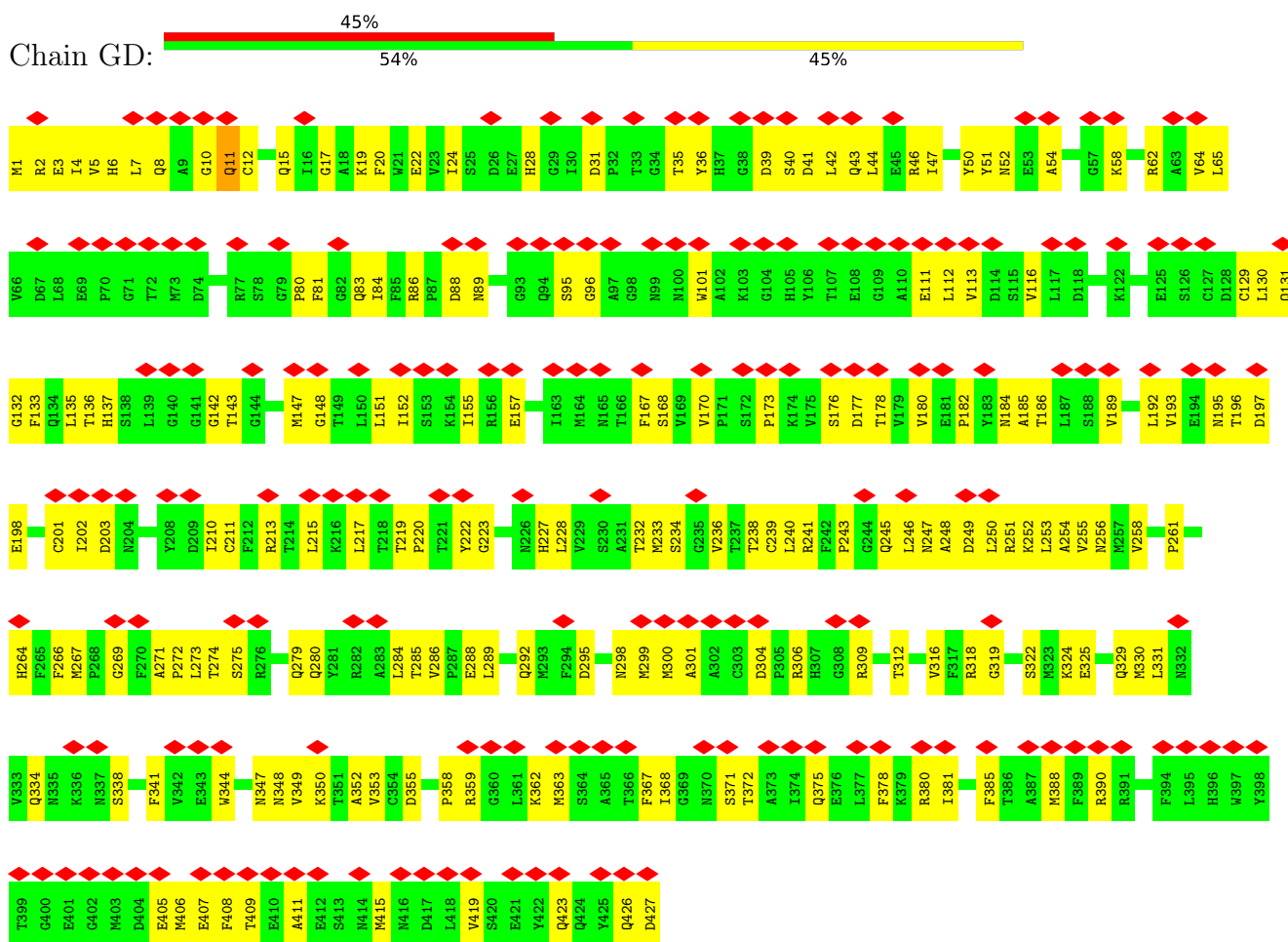


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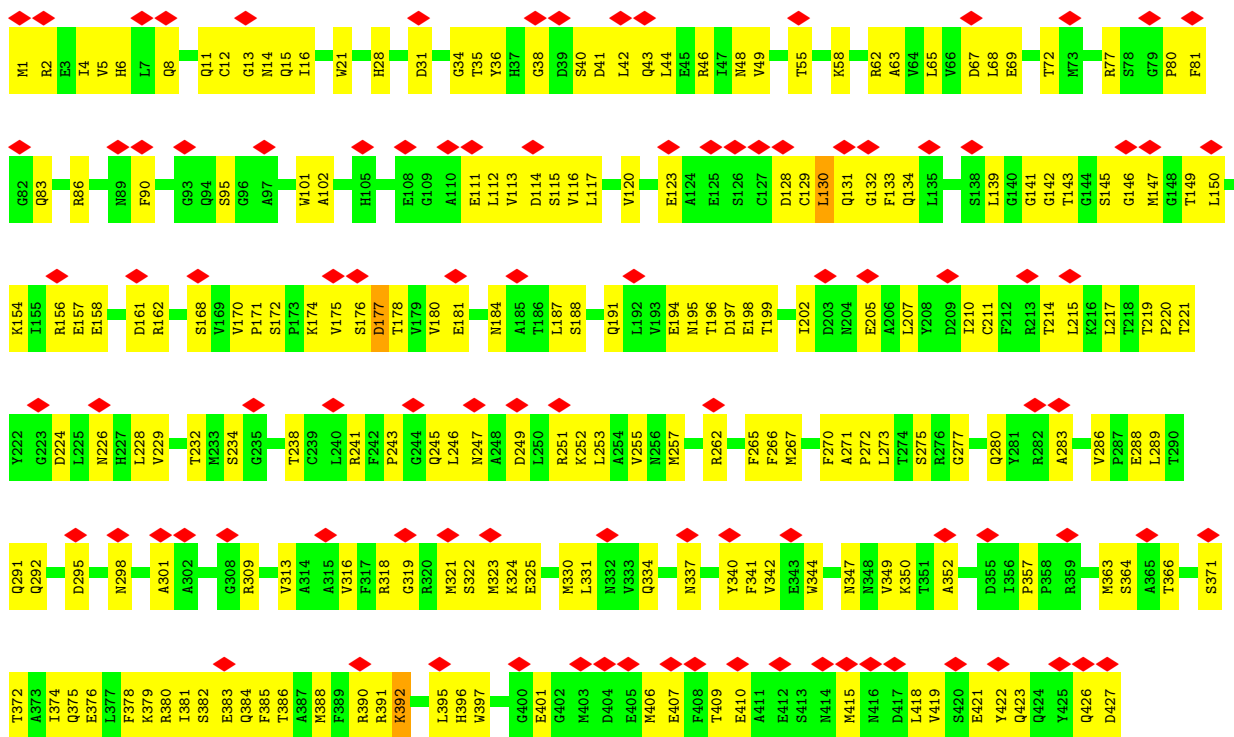


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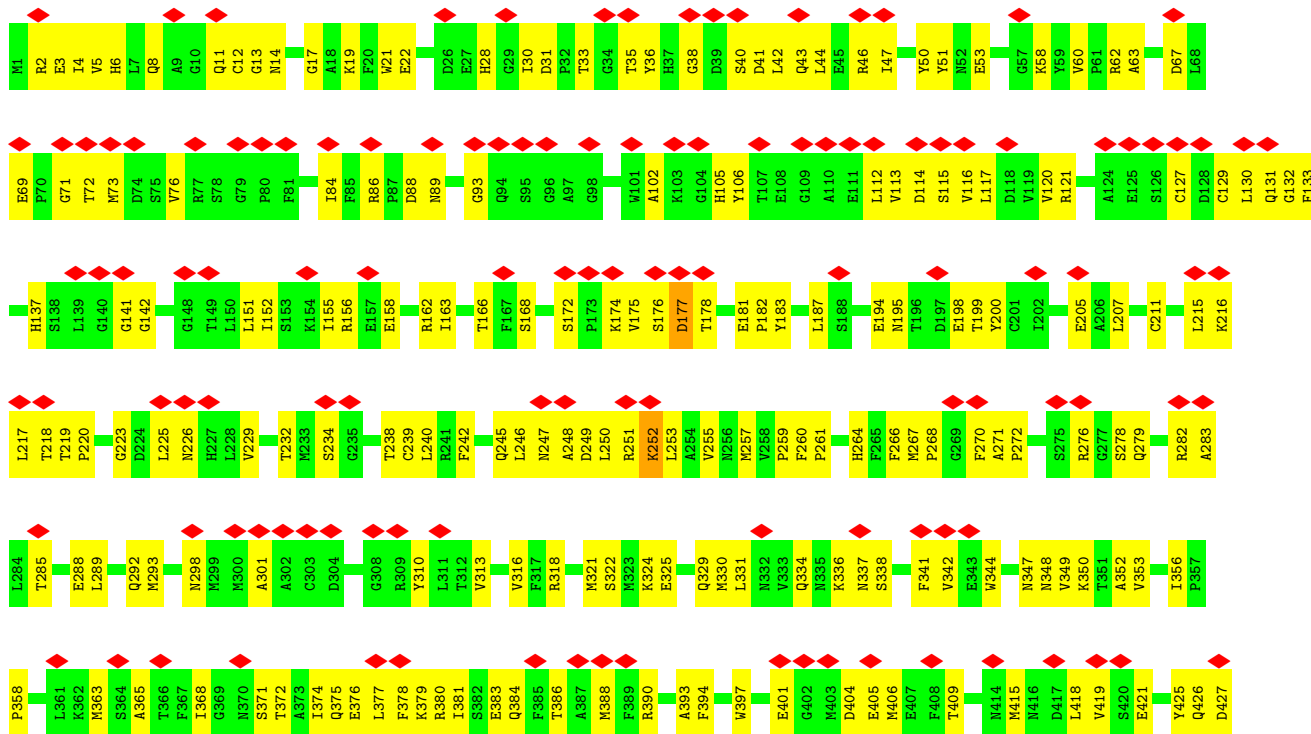


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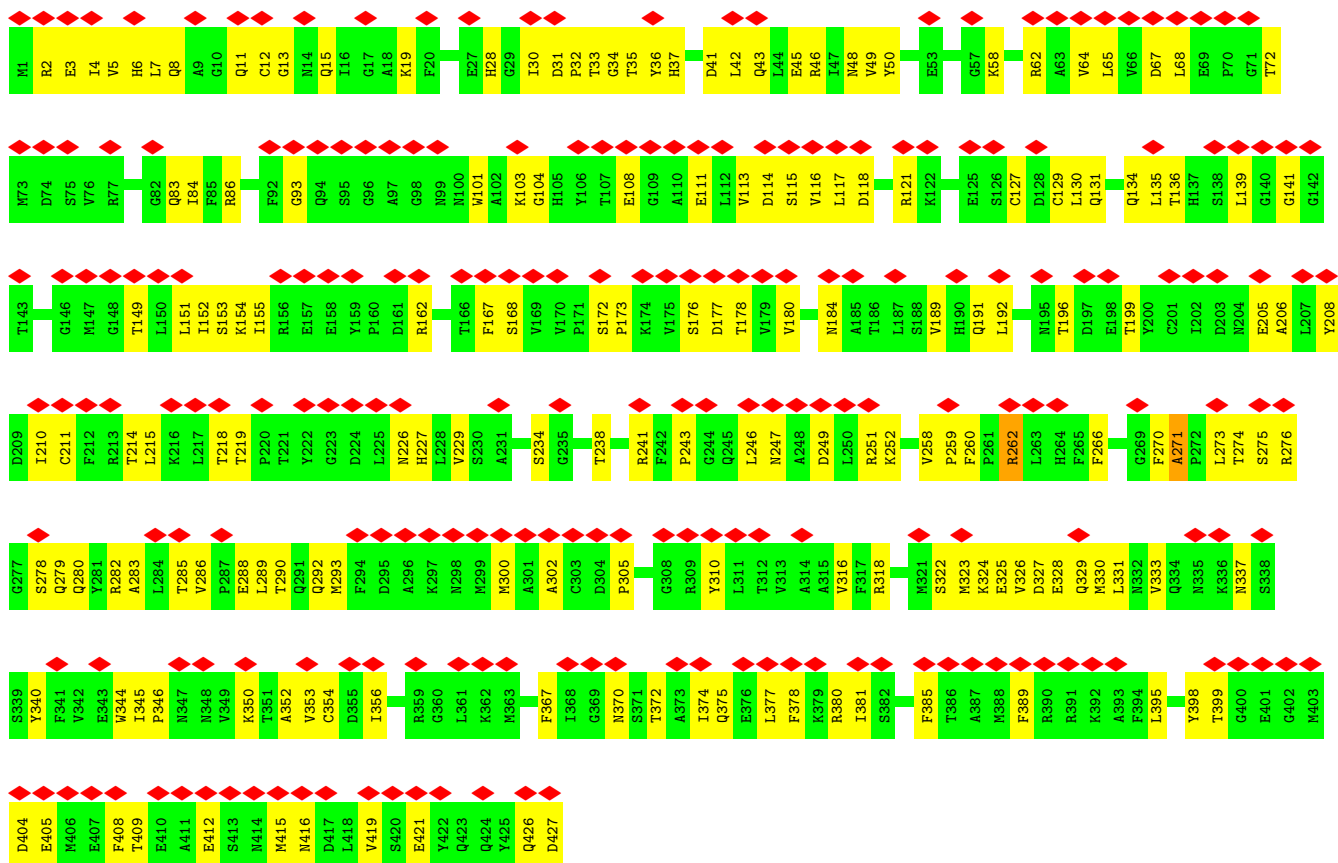


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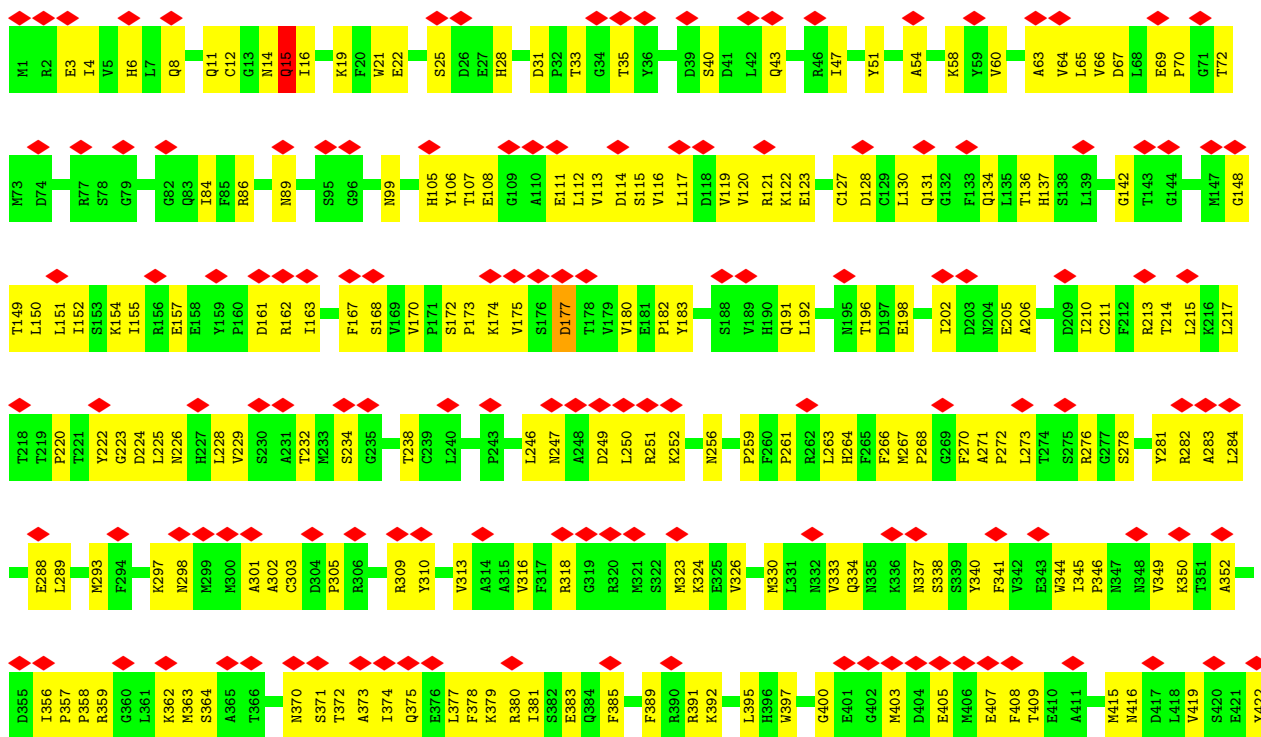


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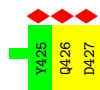




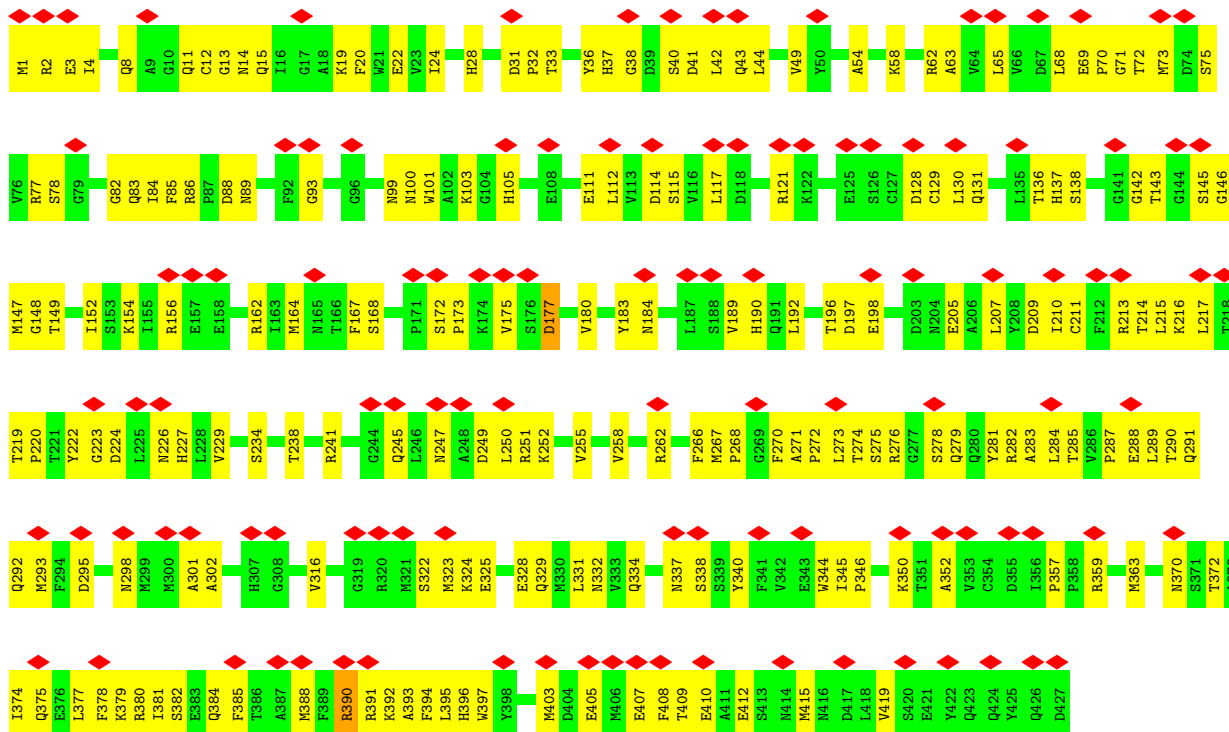
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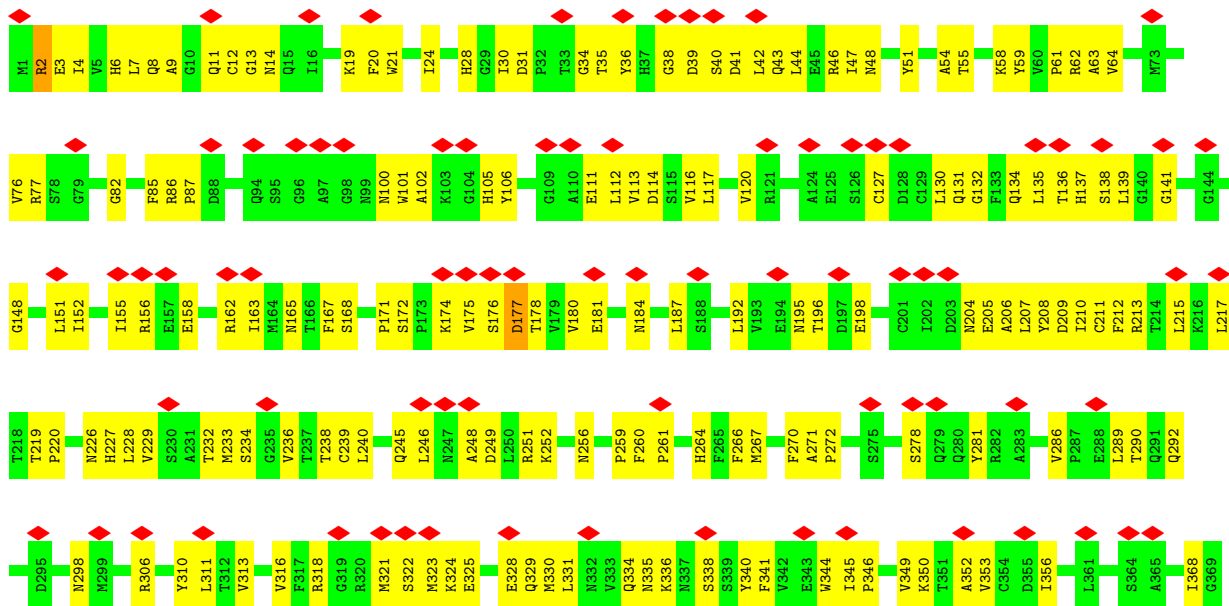


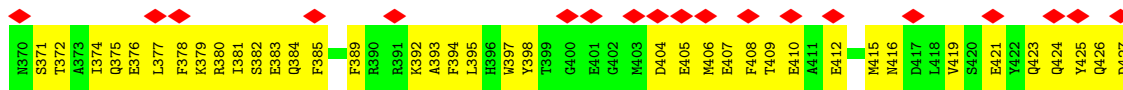


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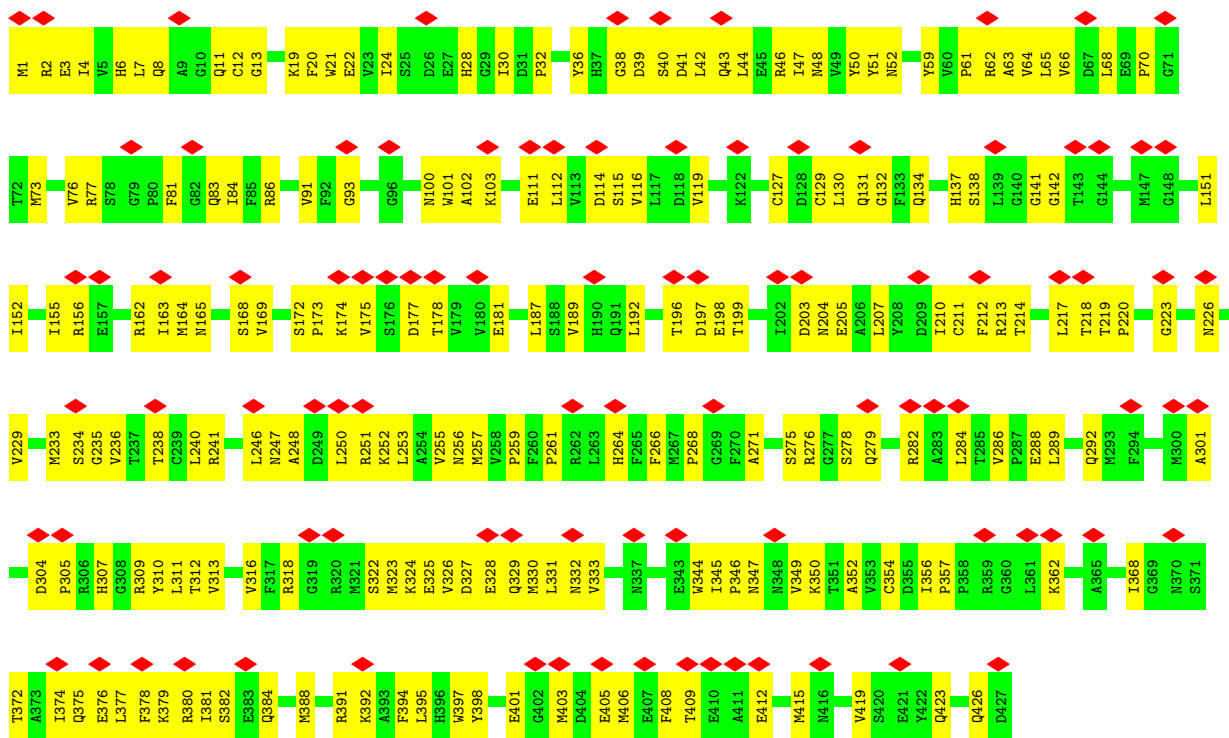


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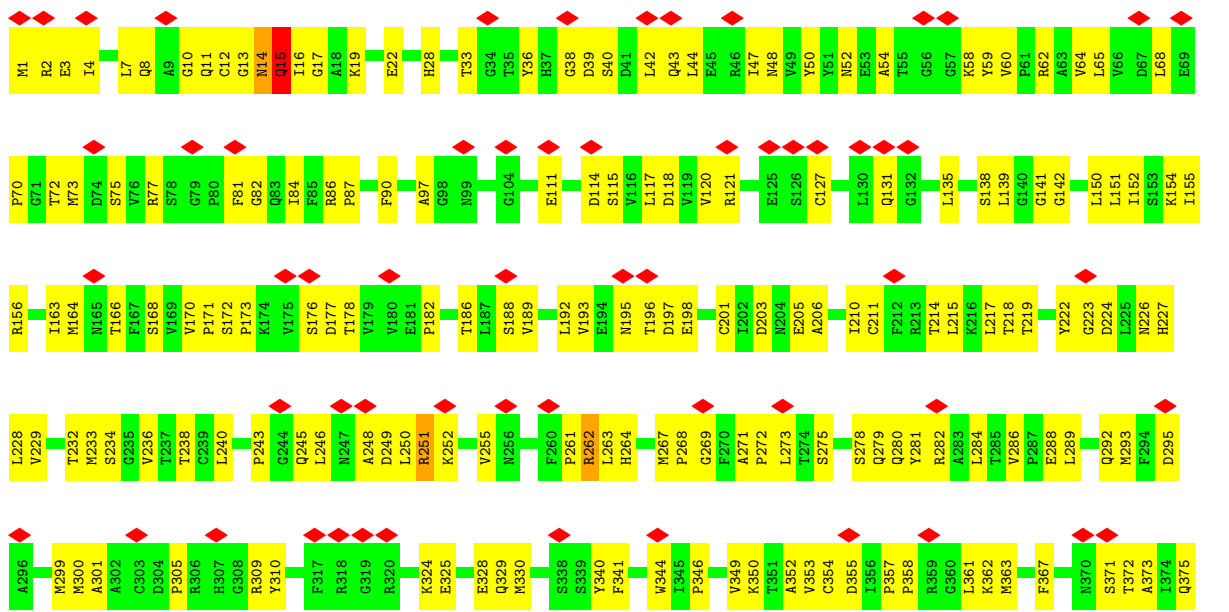




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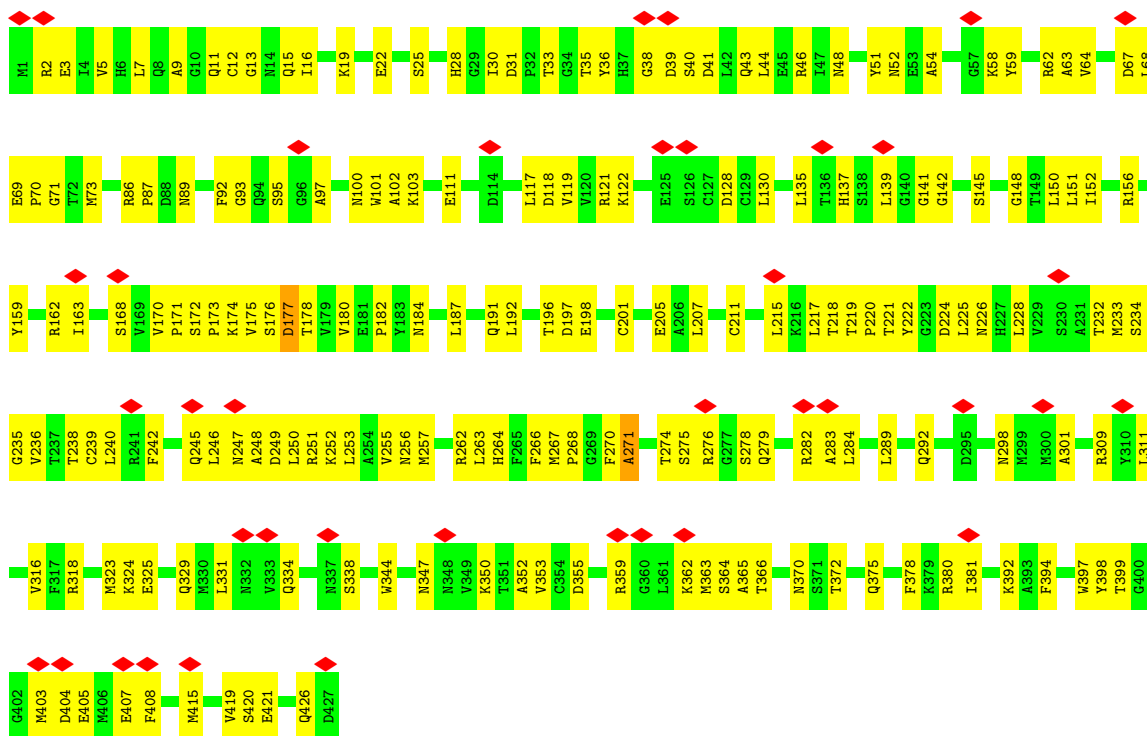
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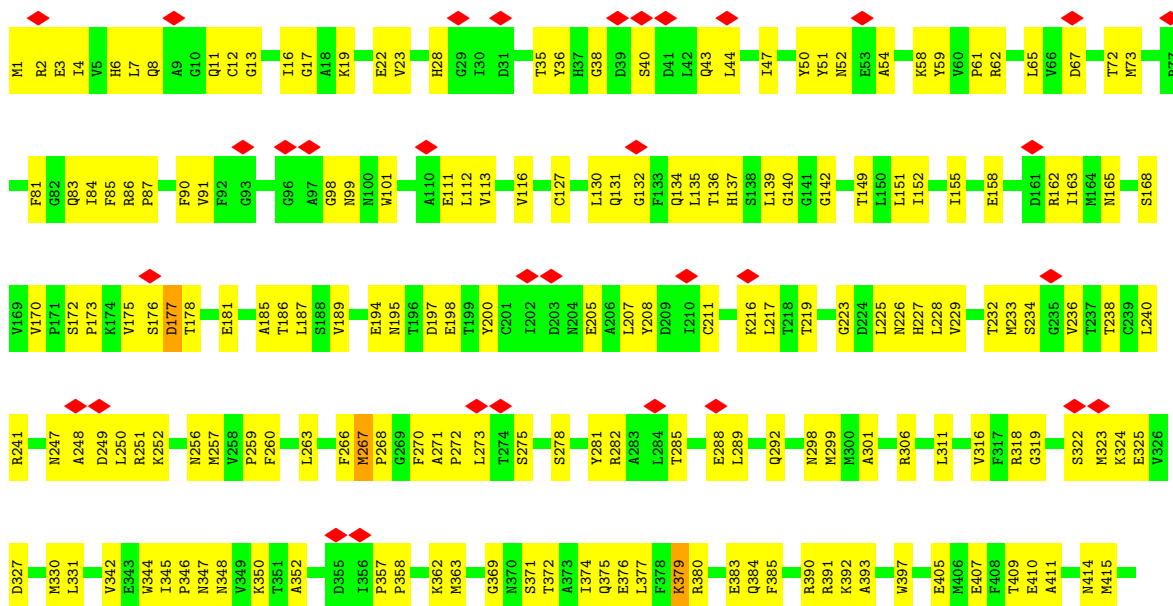




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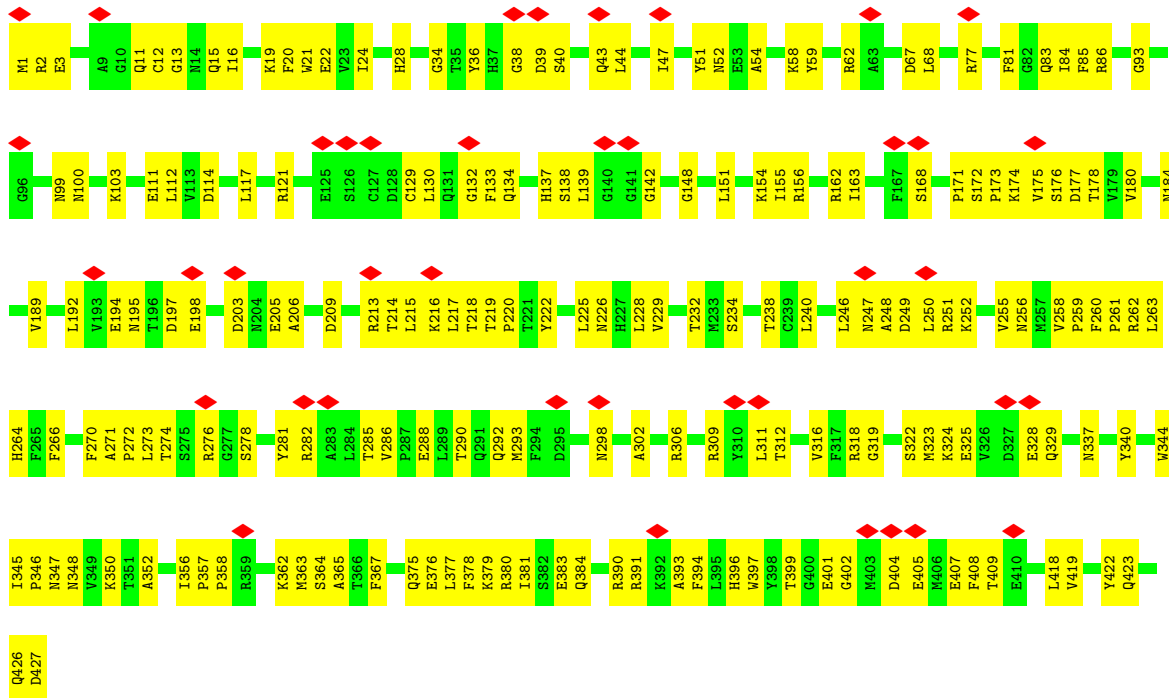


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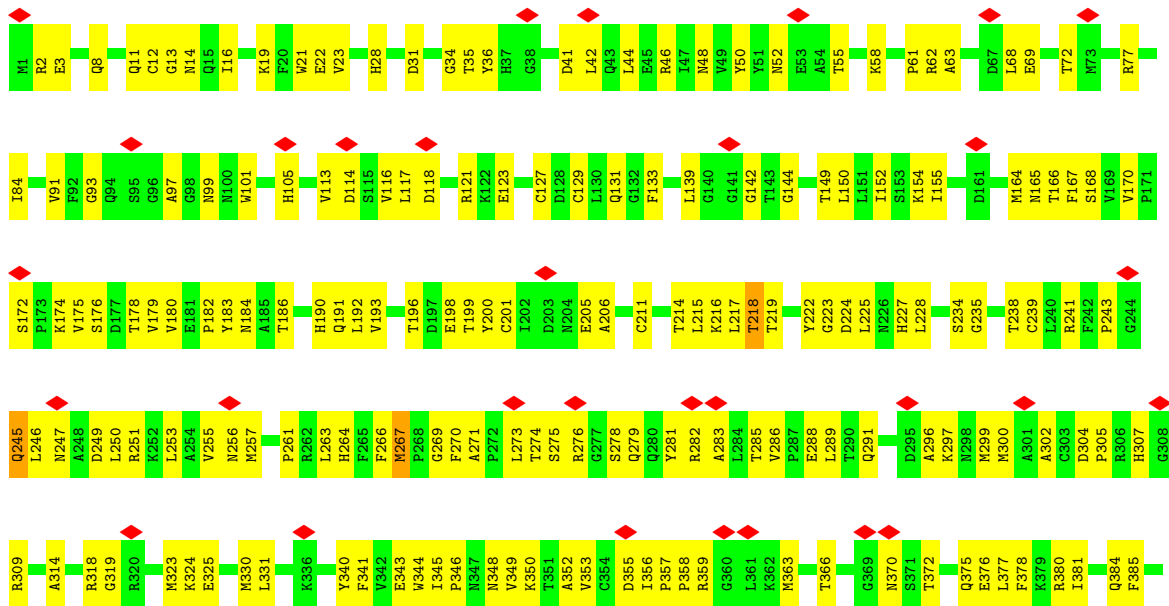


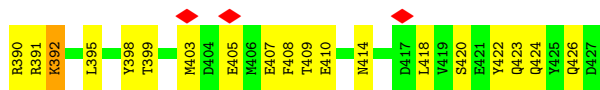


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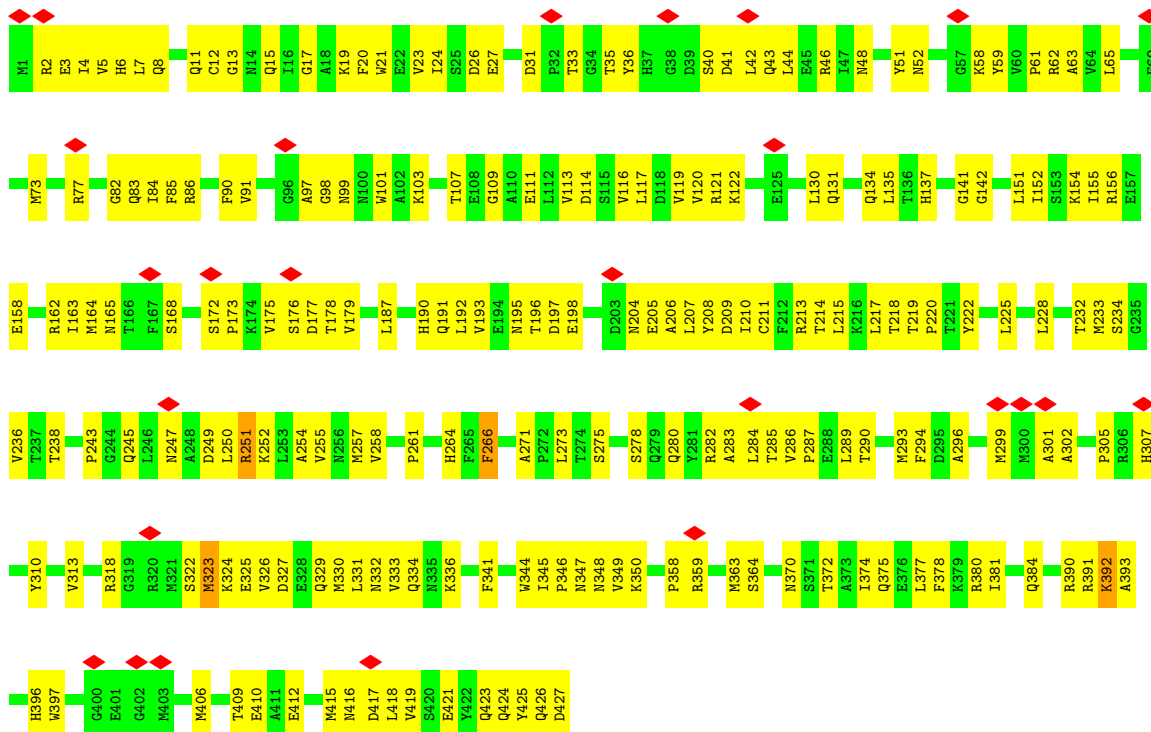


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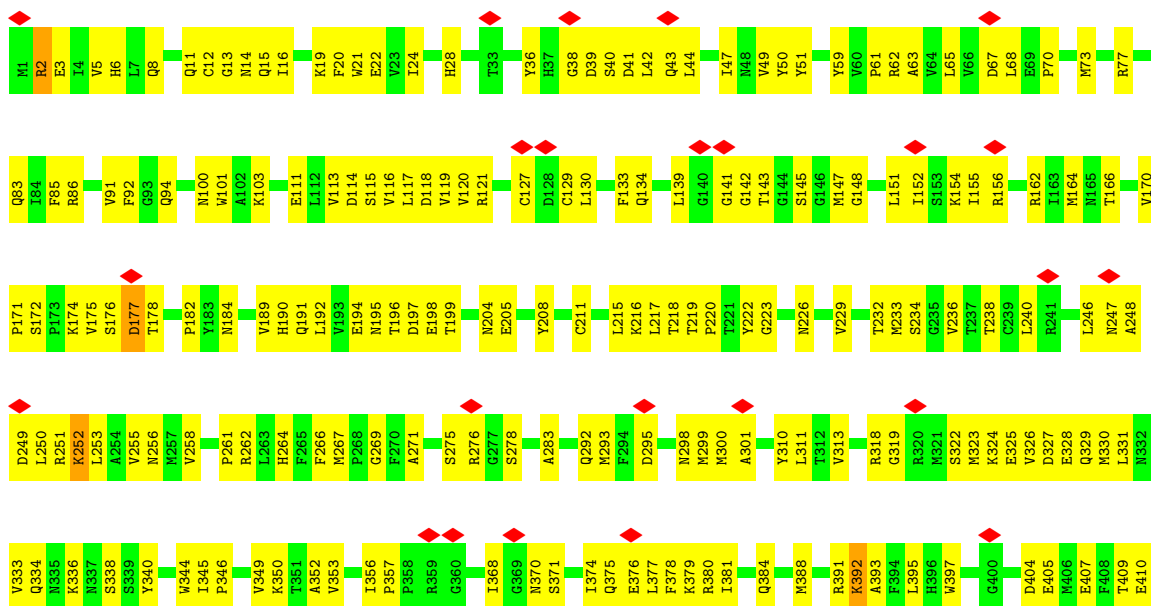




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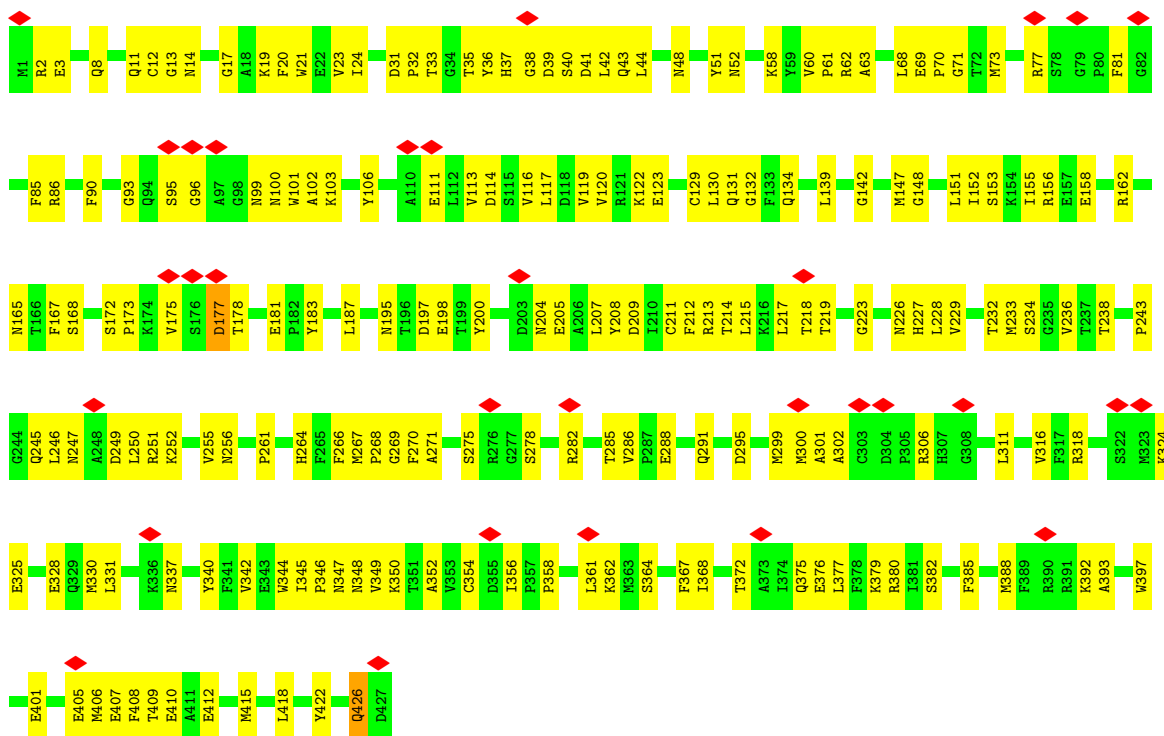


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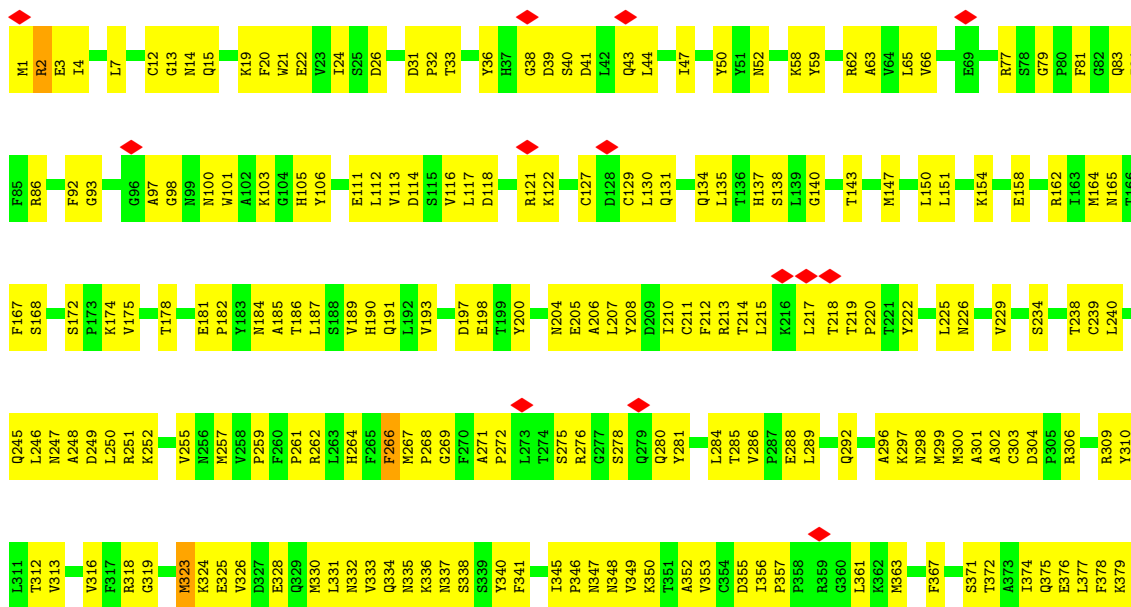


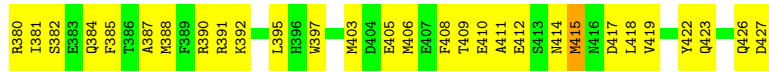


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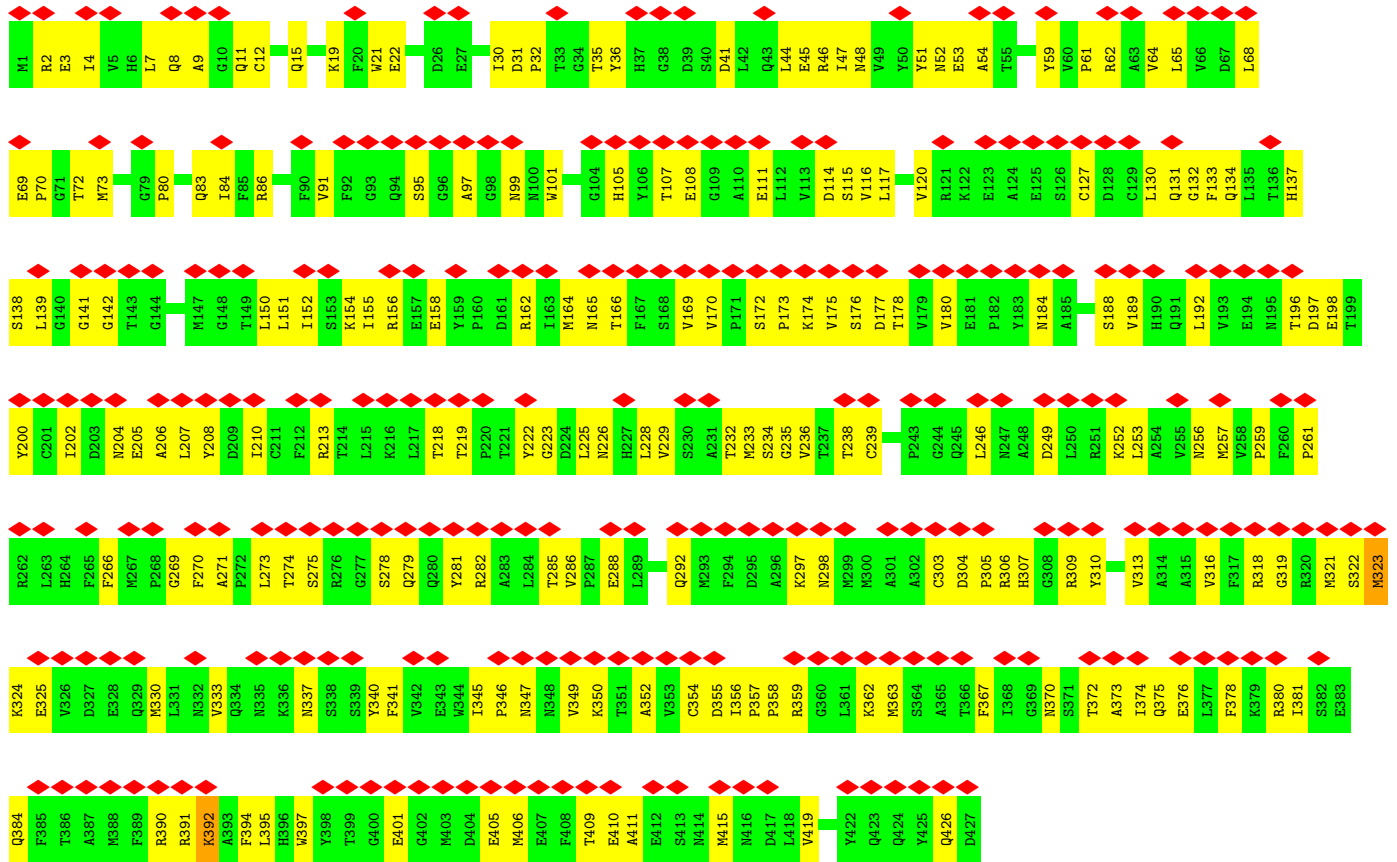


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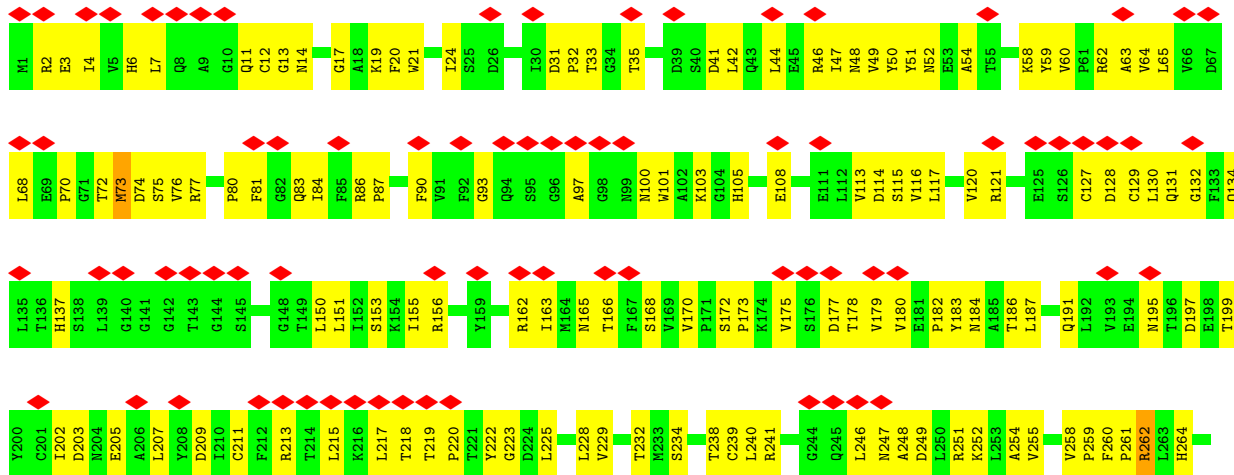




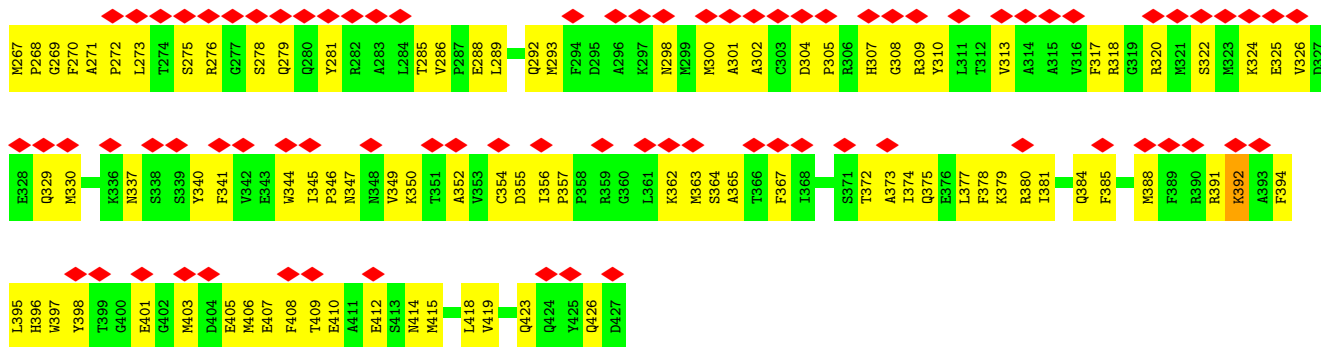
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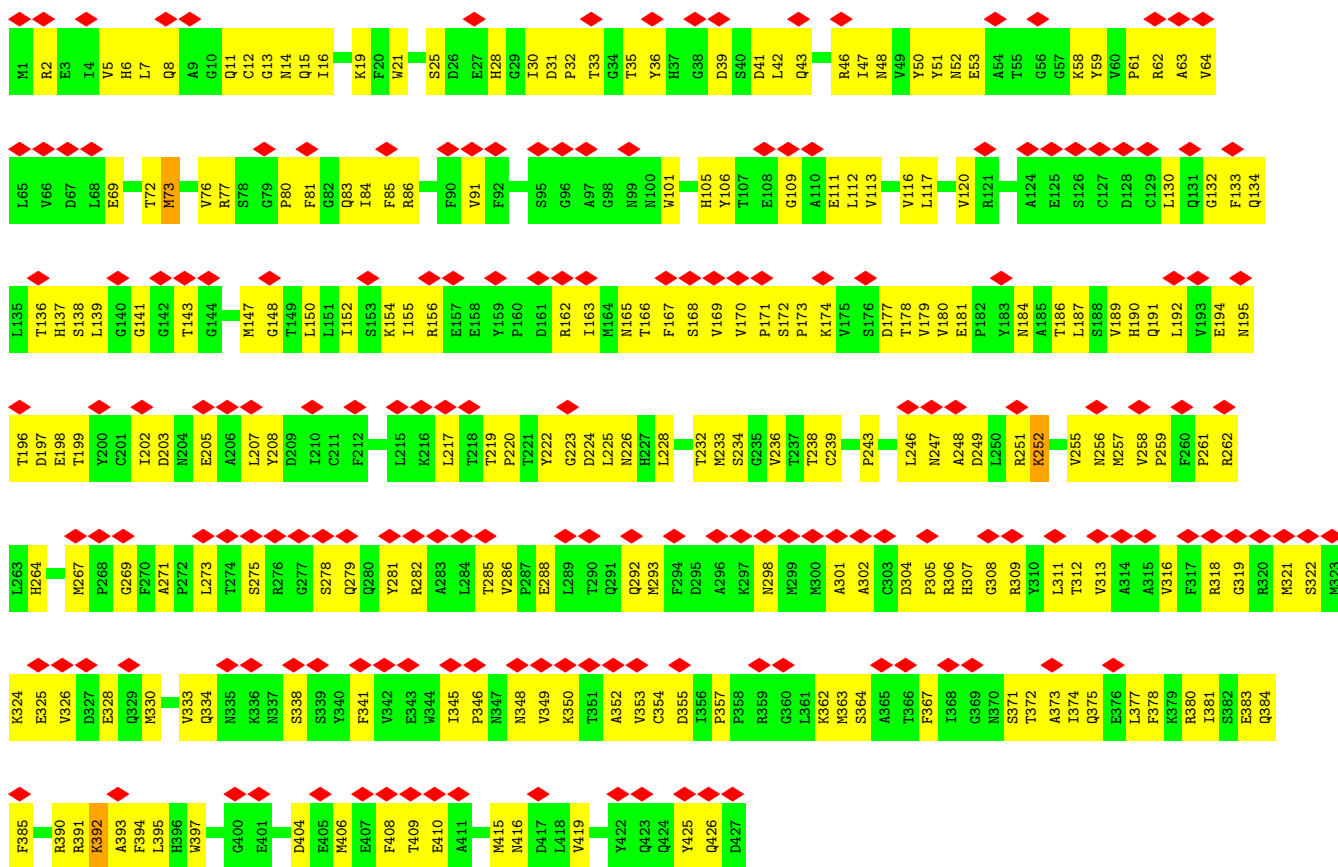
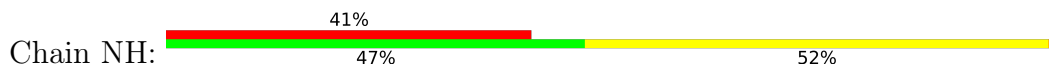
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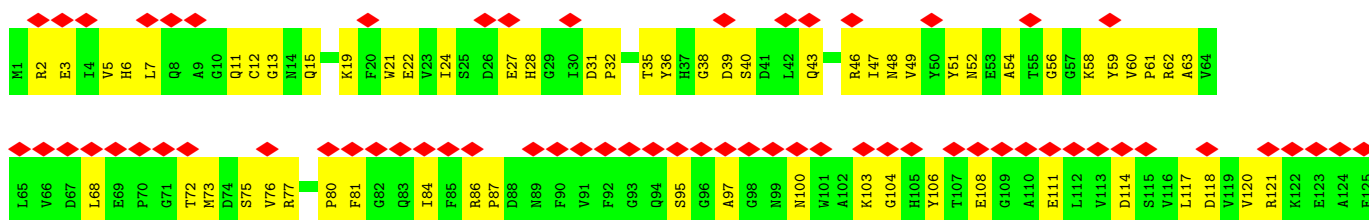


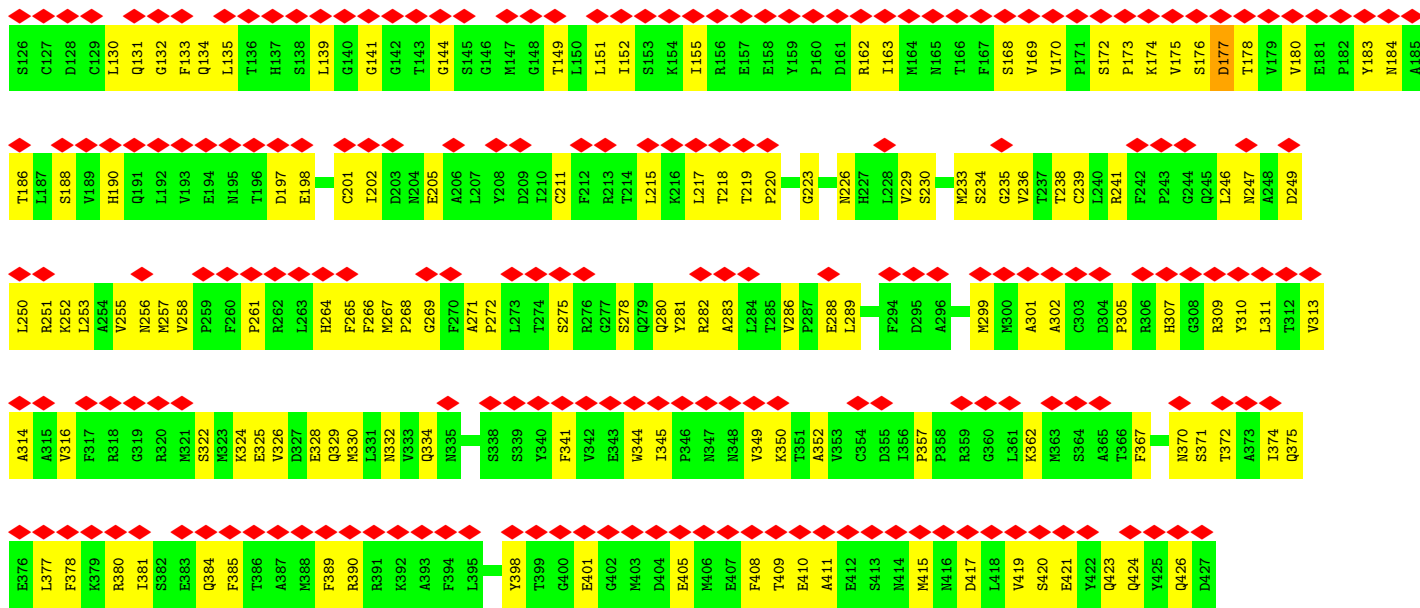


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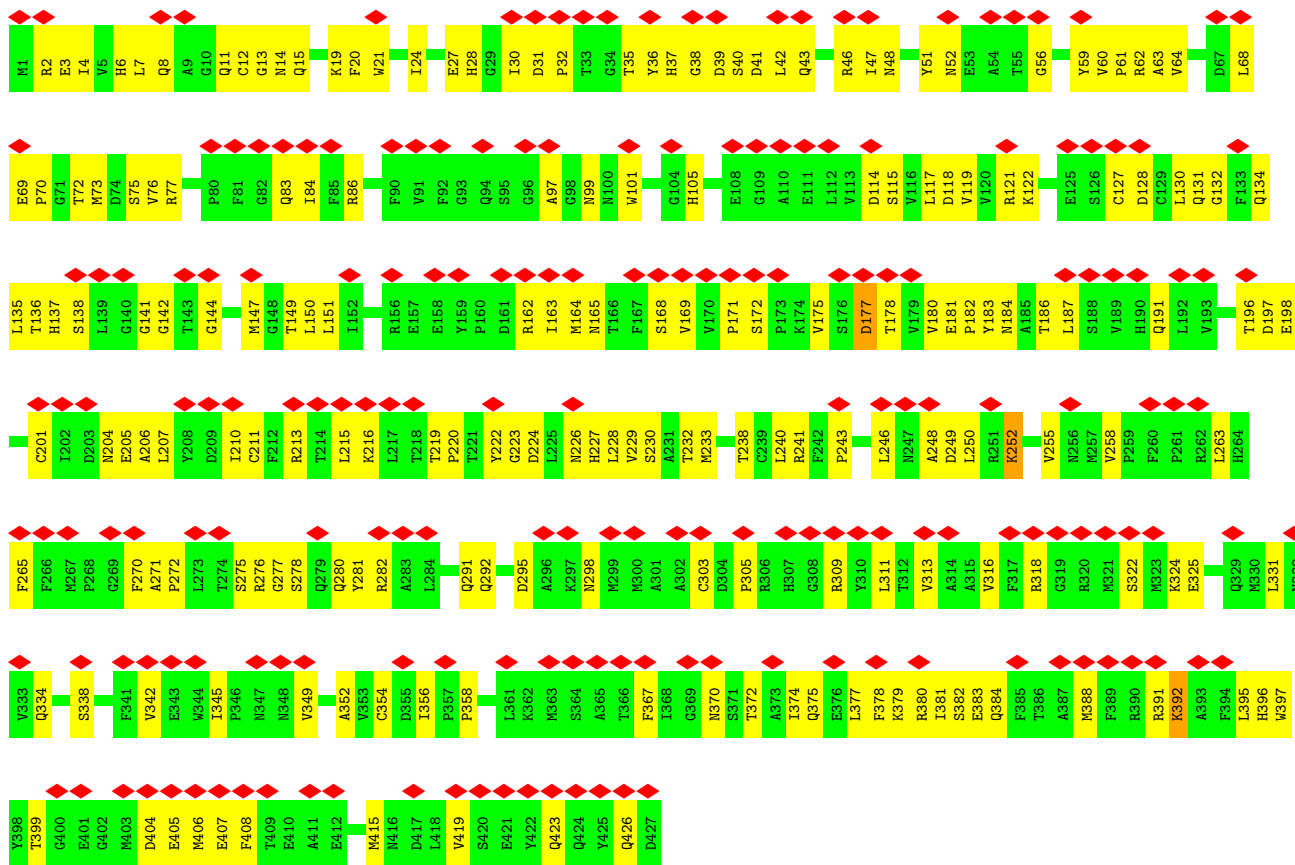


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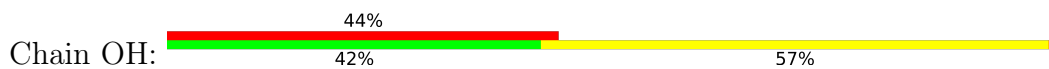


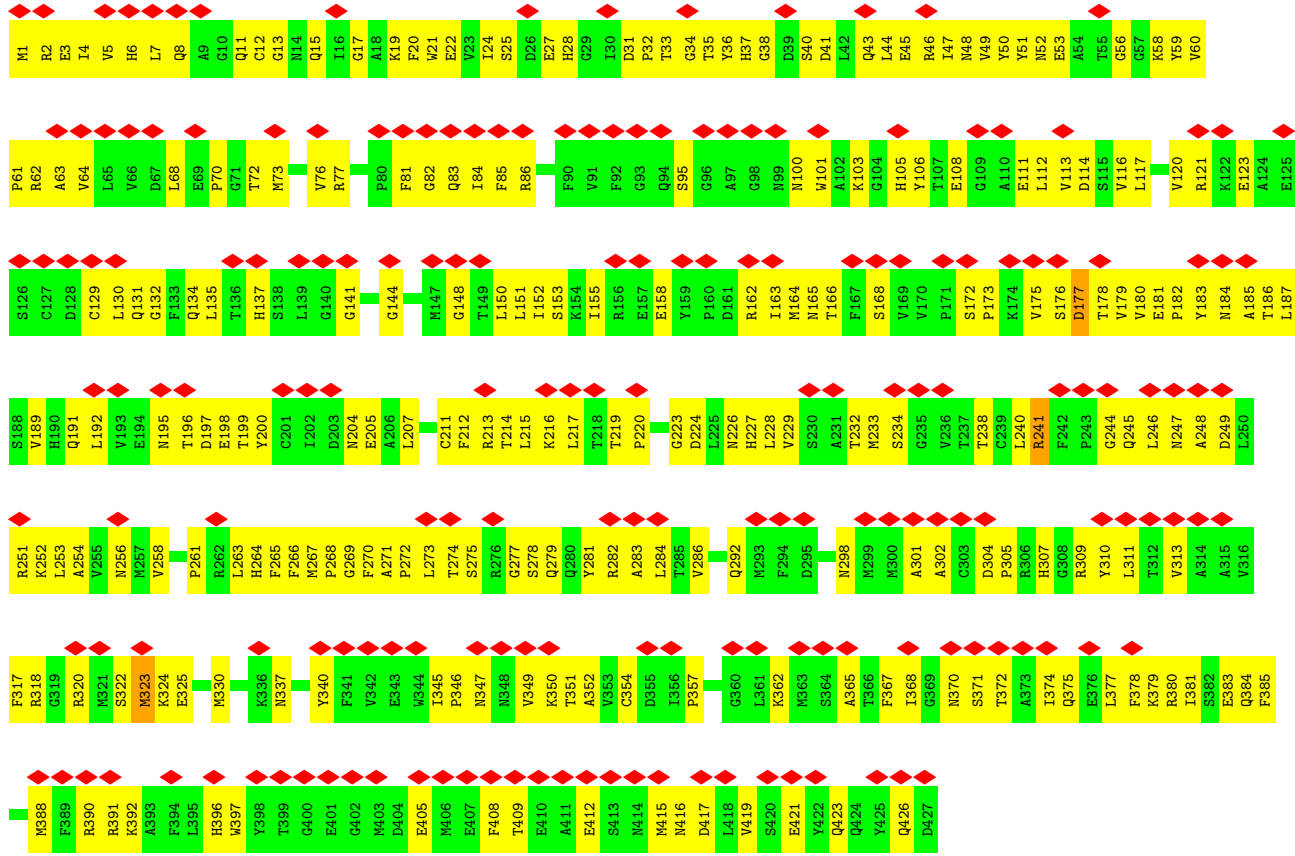


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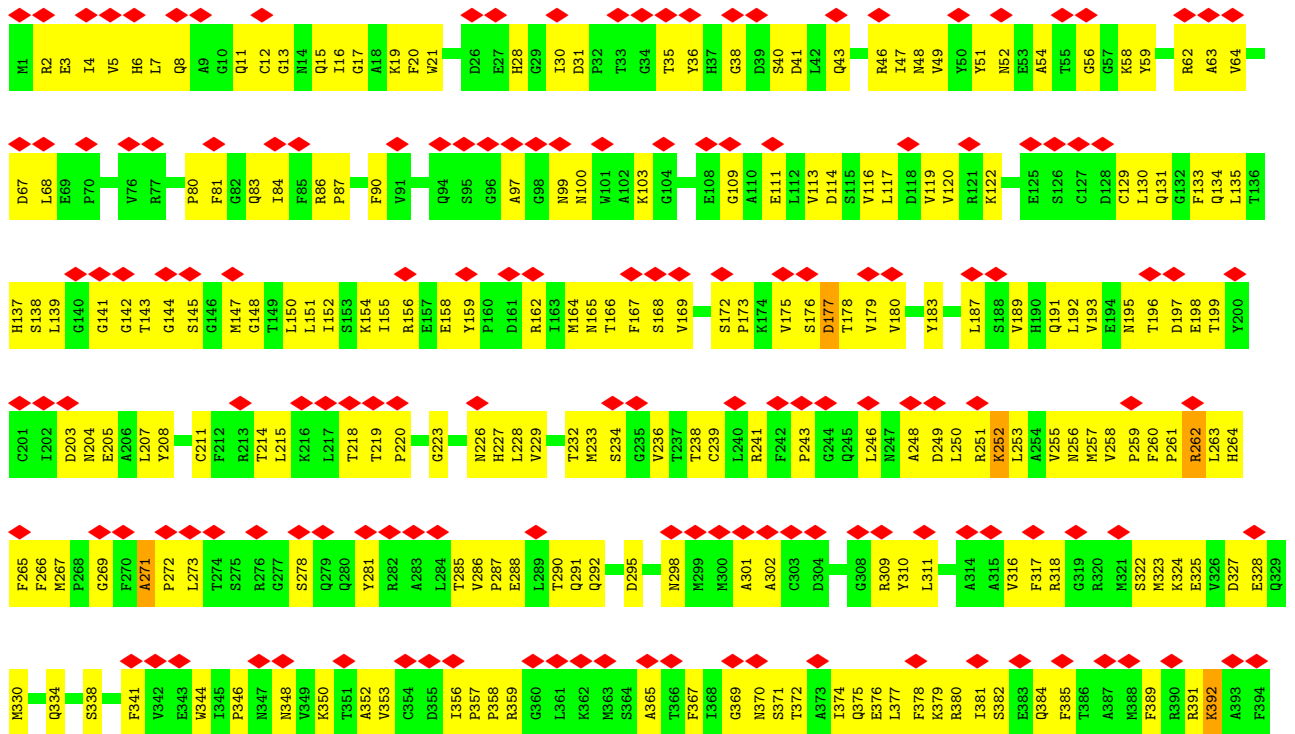
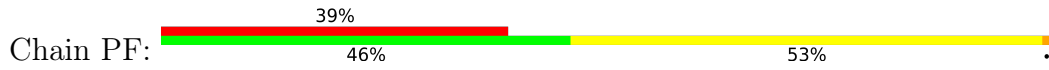


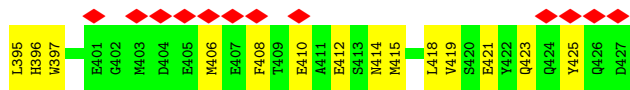
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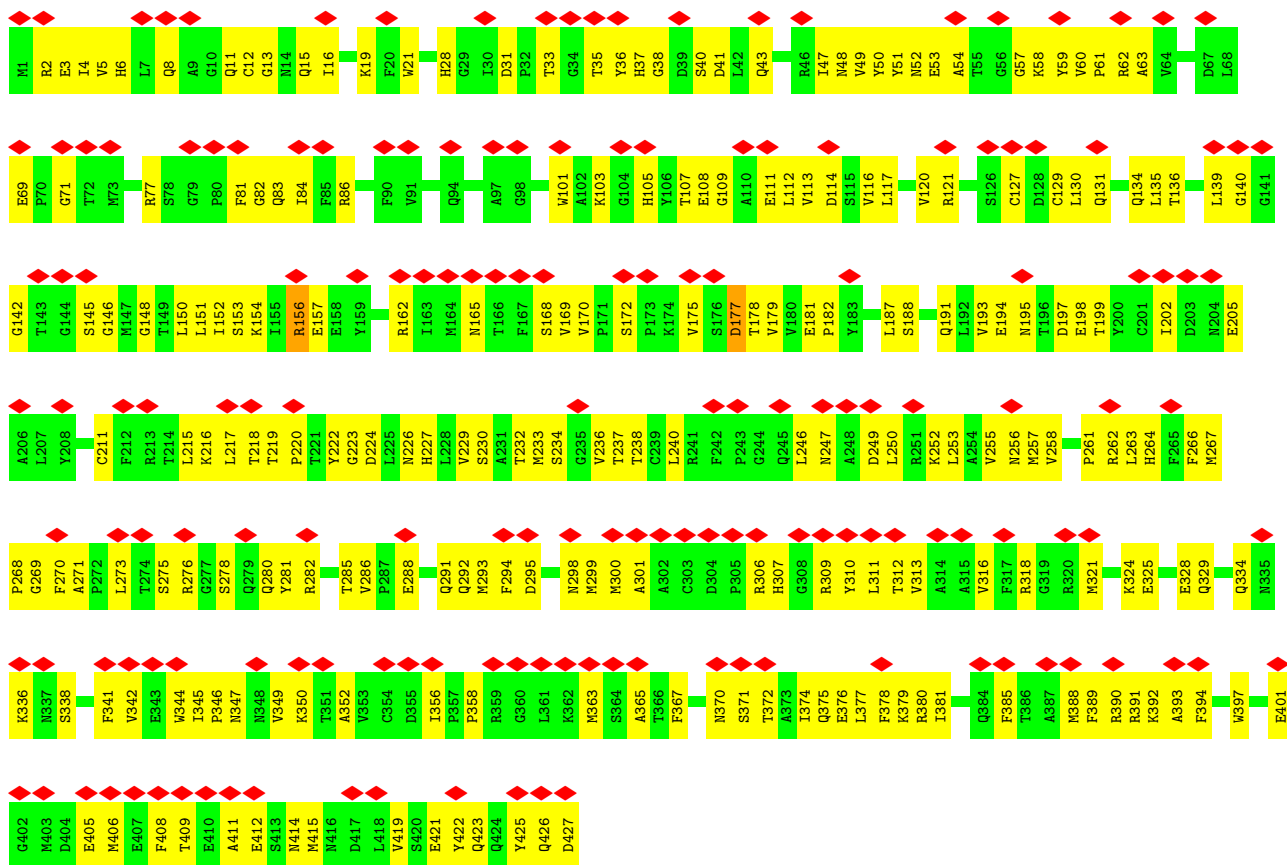
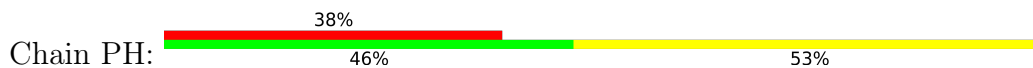


● Molecule 3: Tubulin beta-4B chain

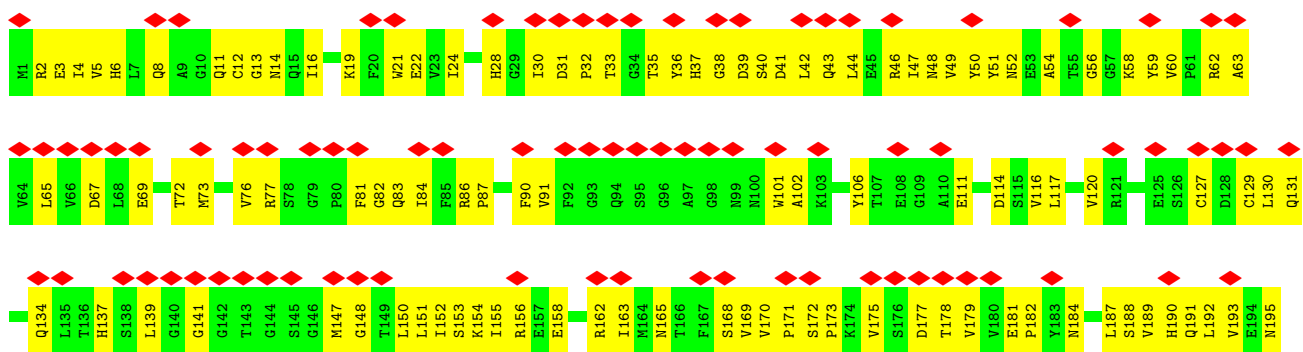


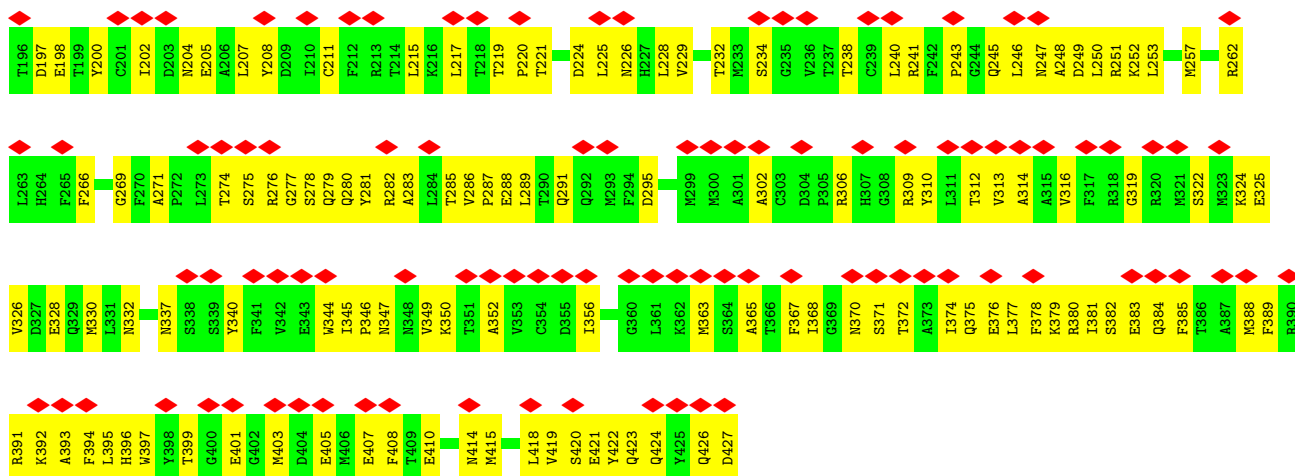


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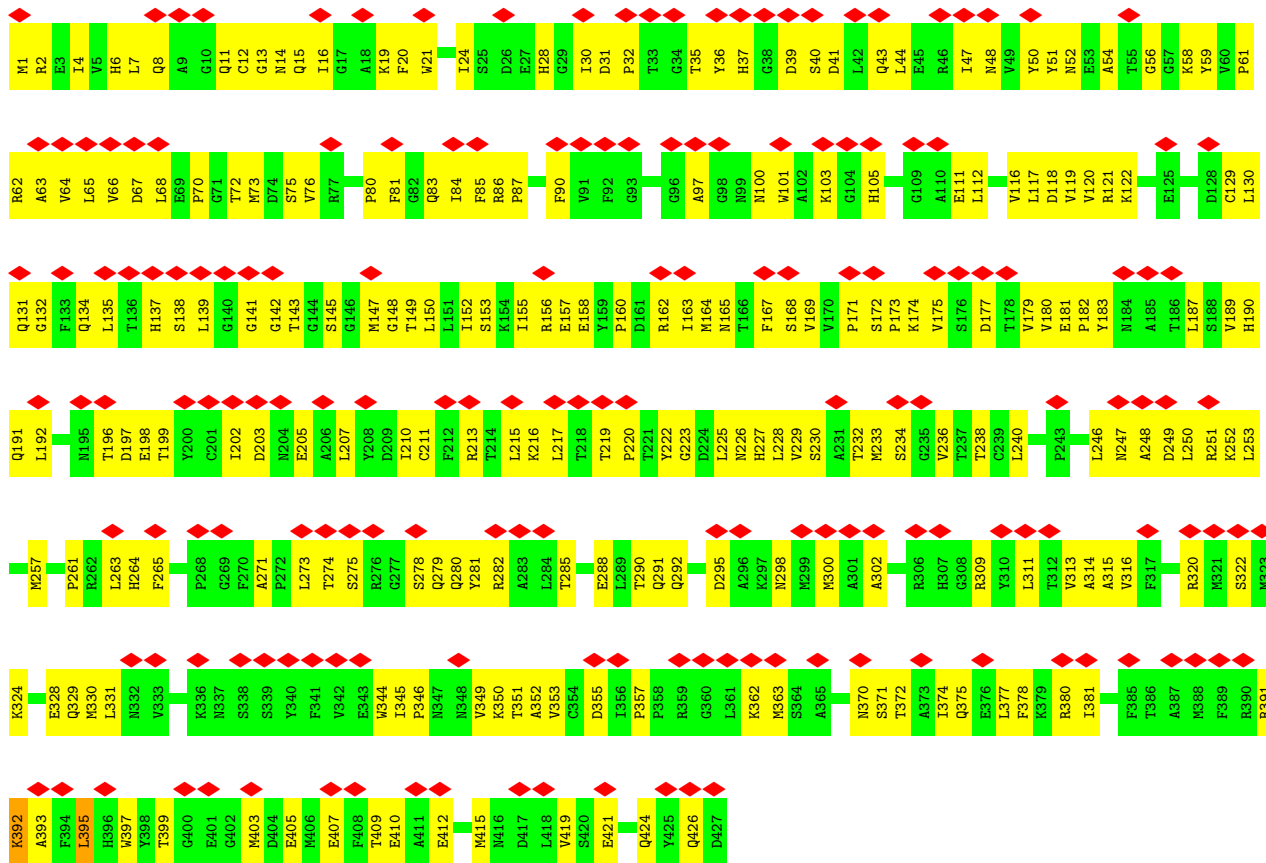
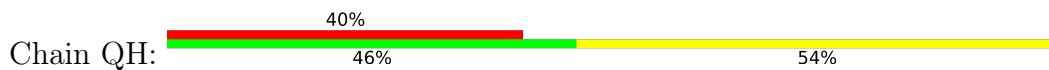


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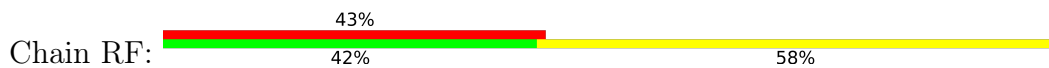


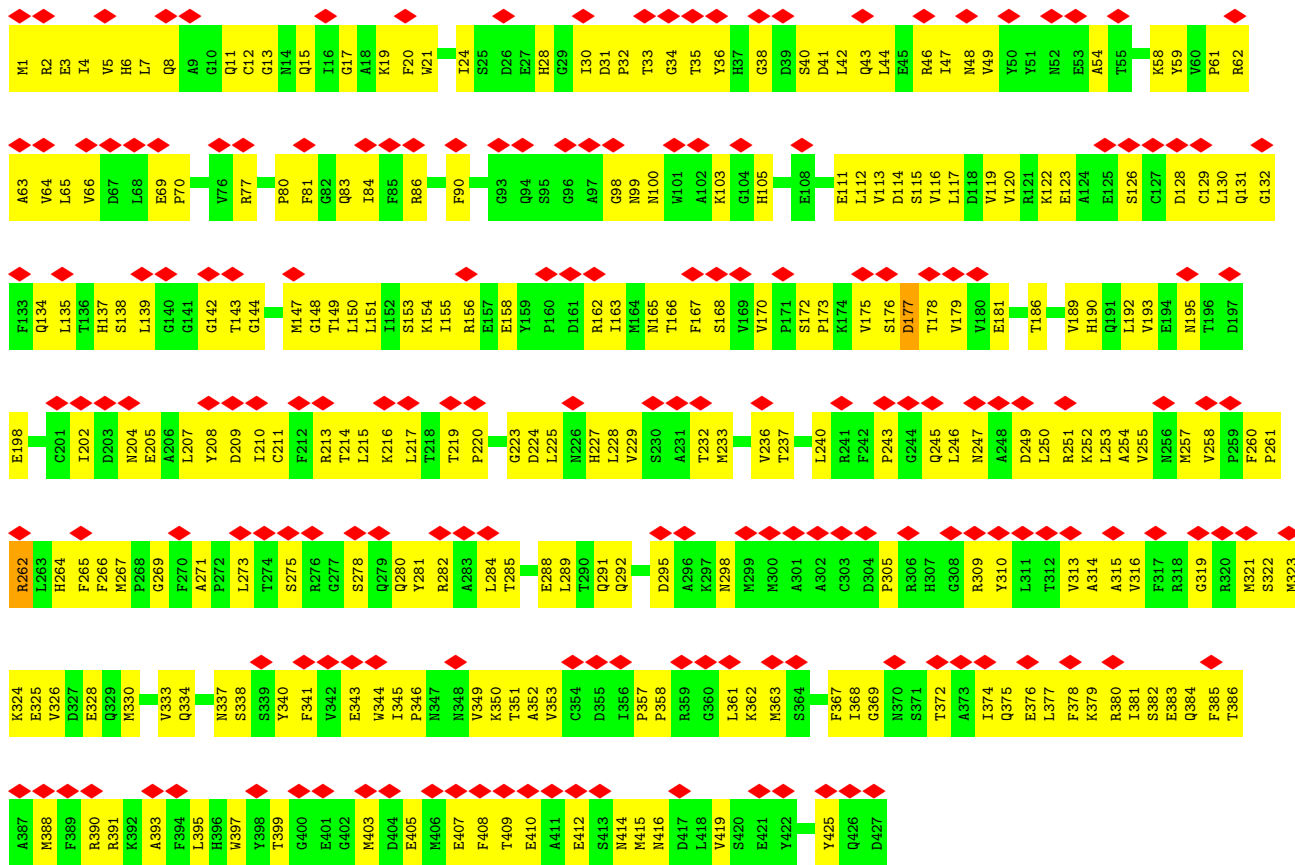


• Molecule 3: Tubulin beta-4B chain

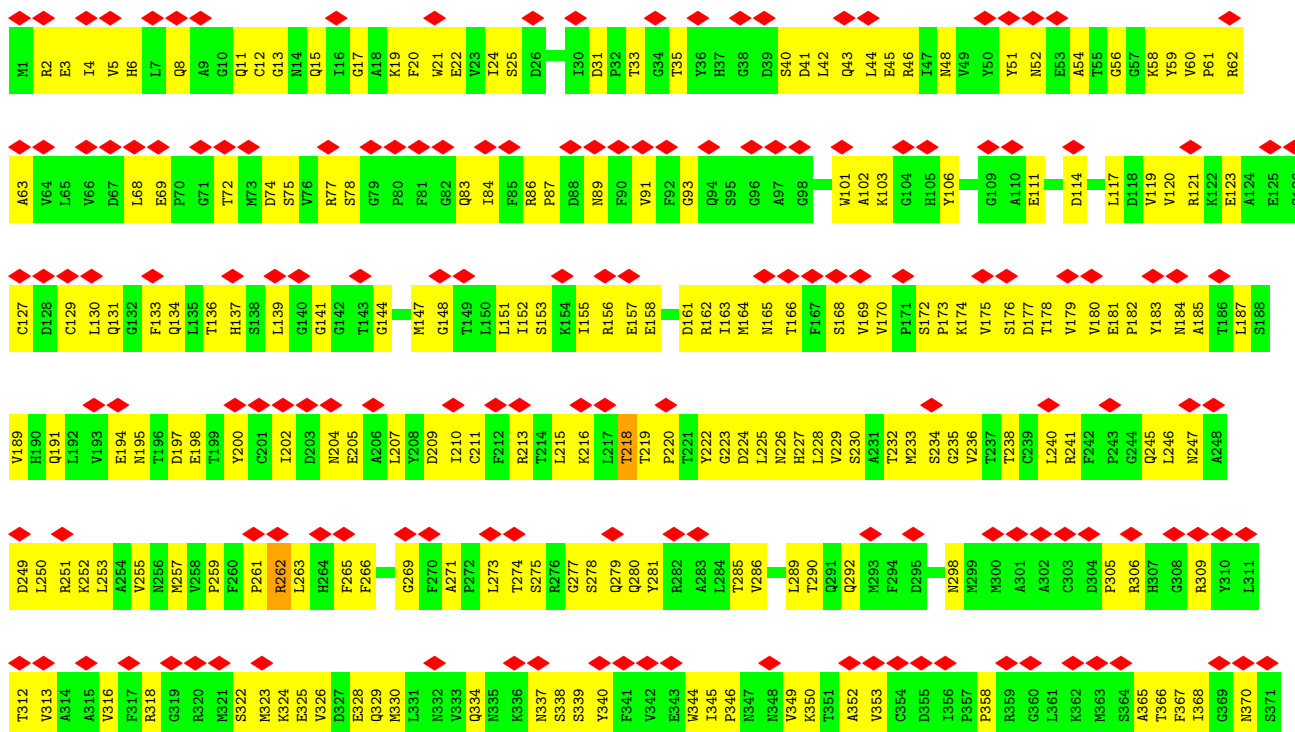
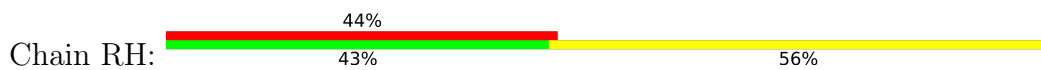


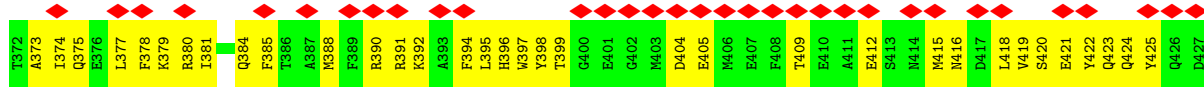
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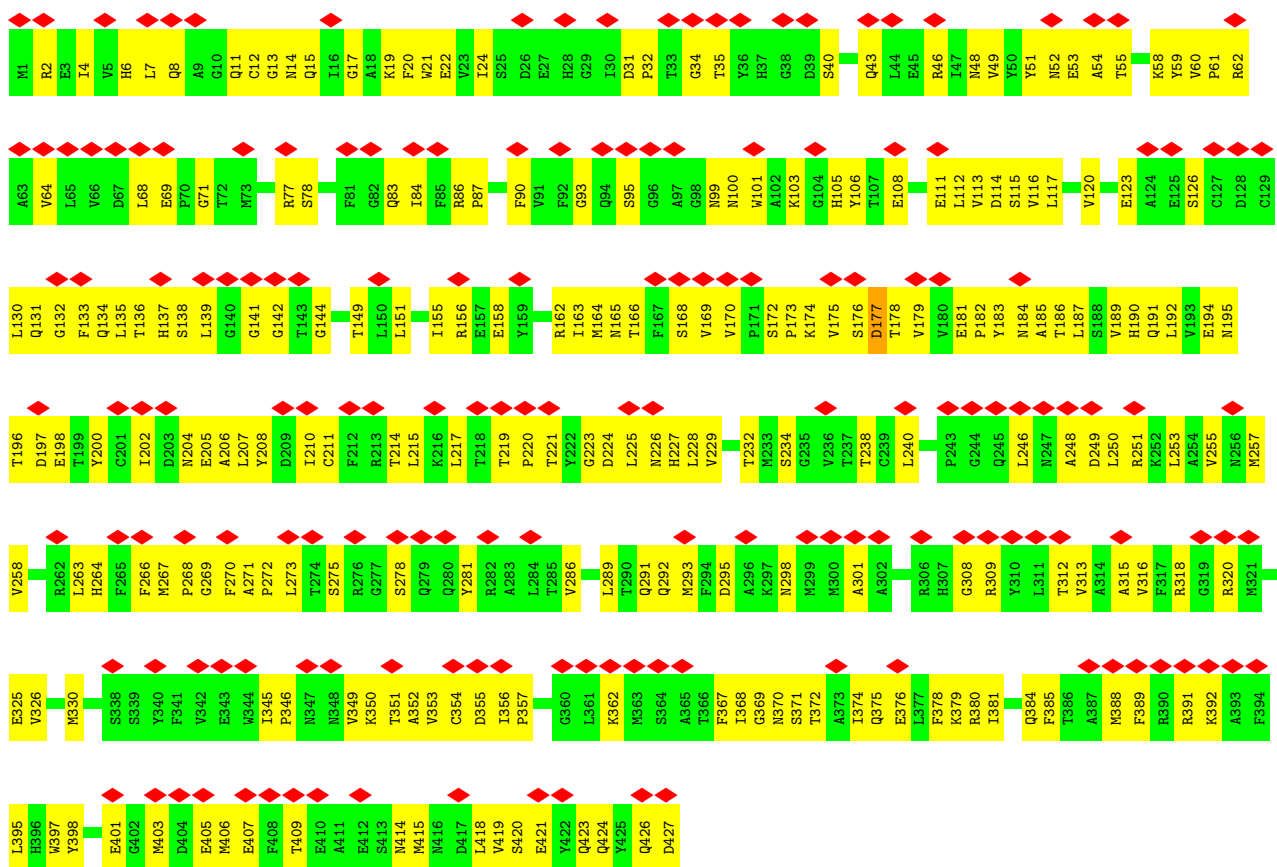
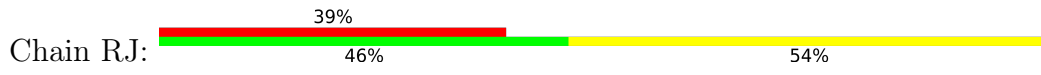


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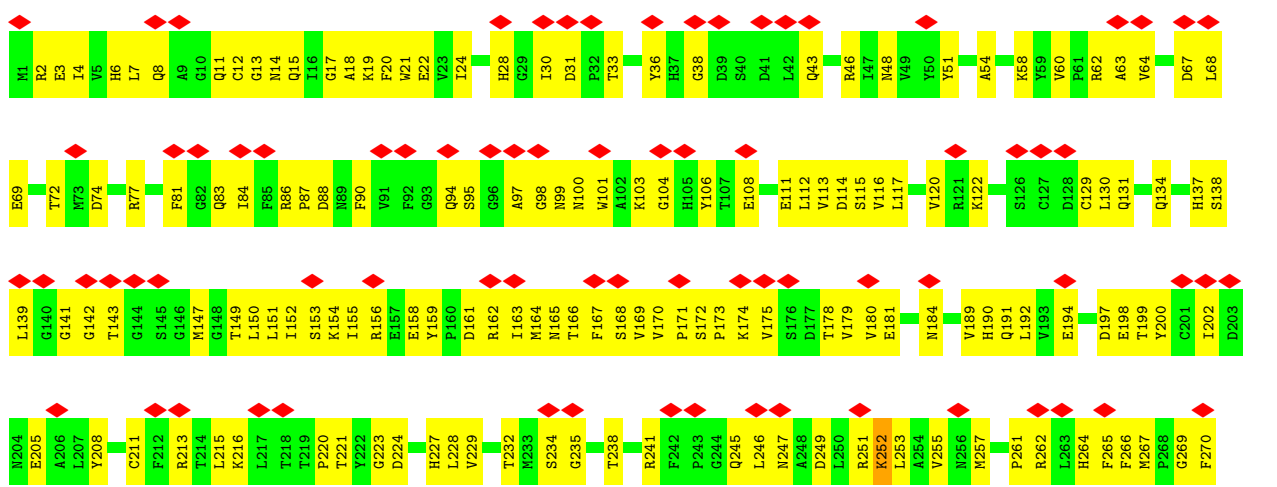
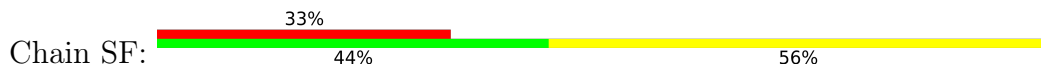


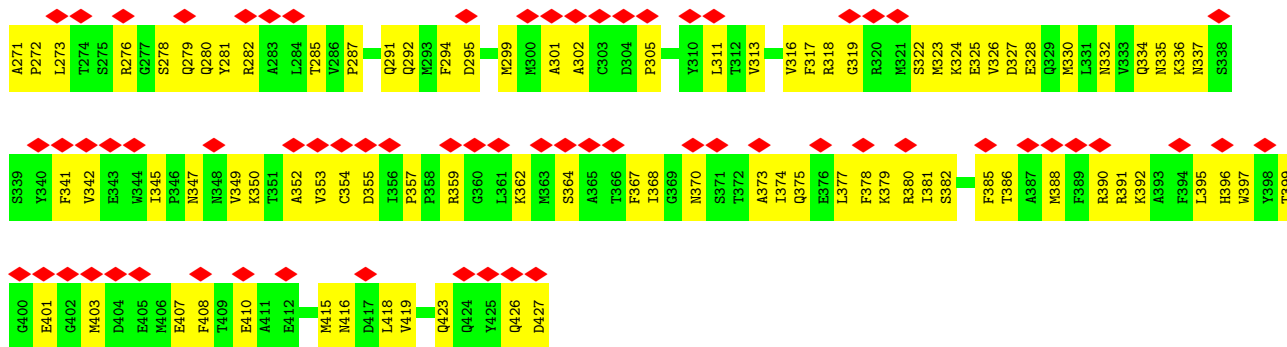


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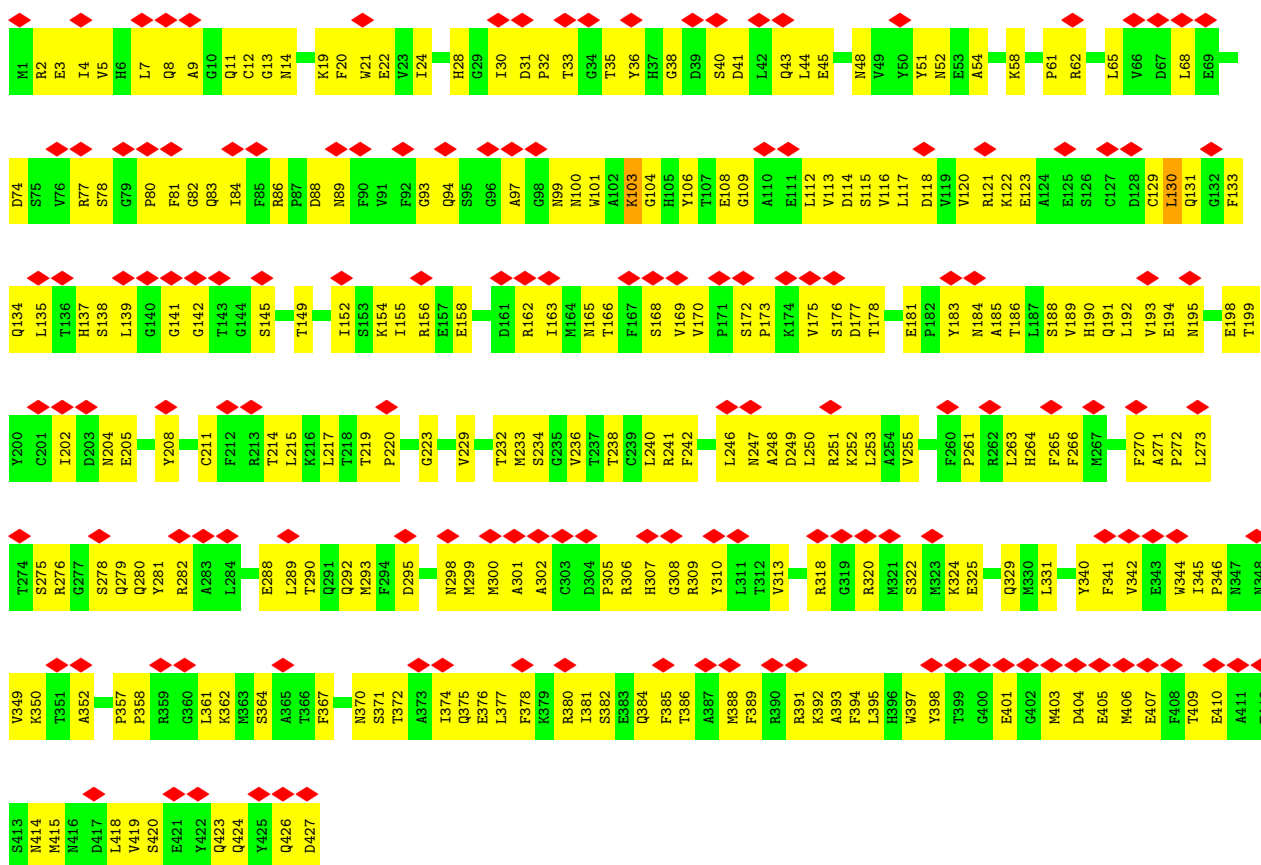
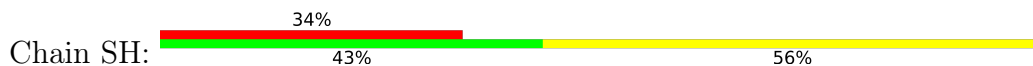


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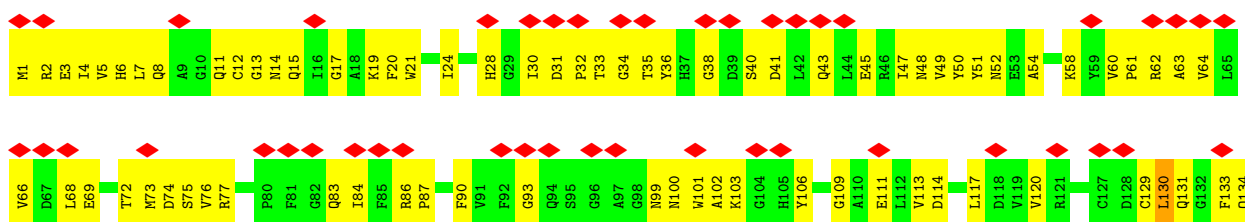




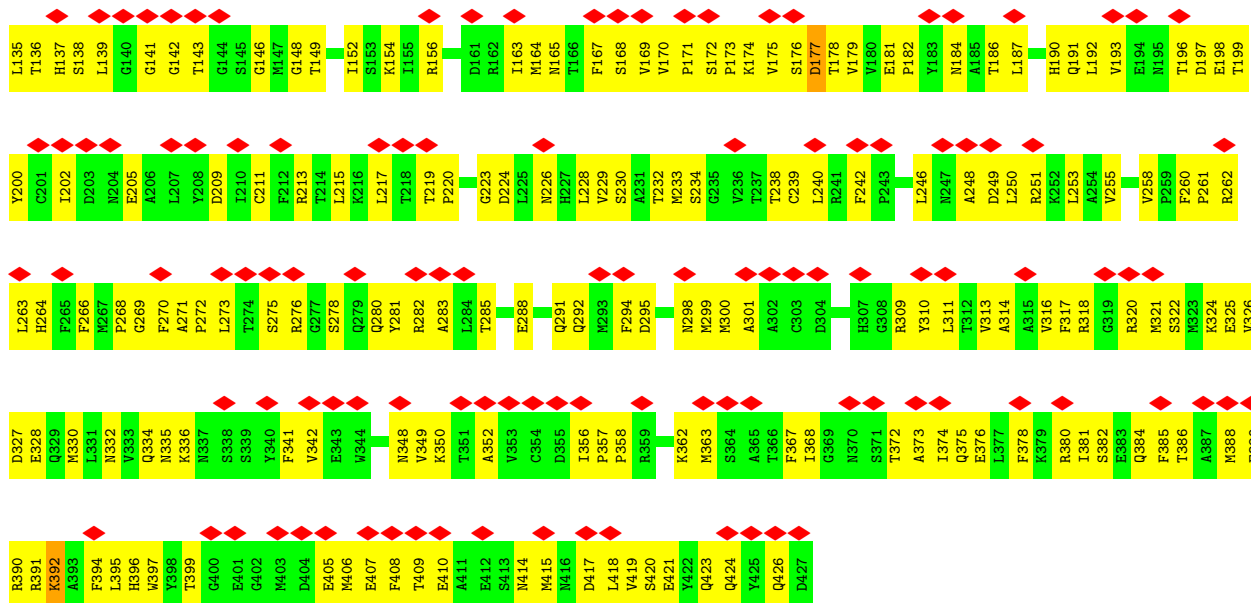
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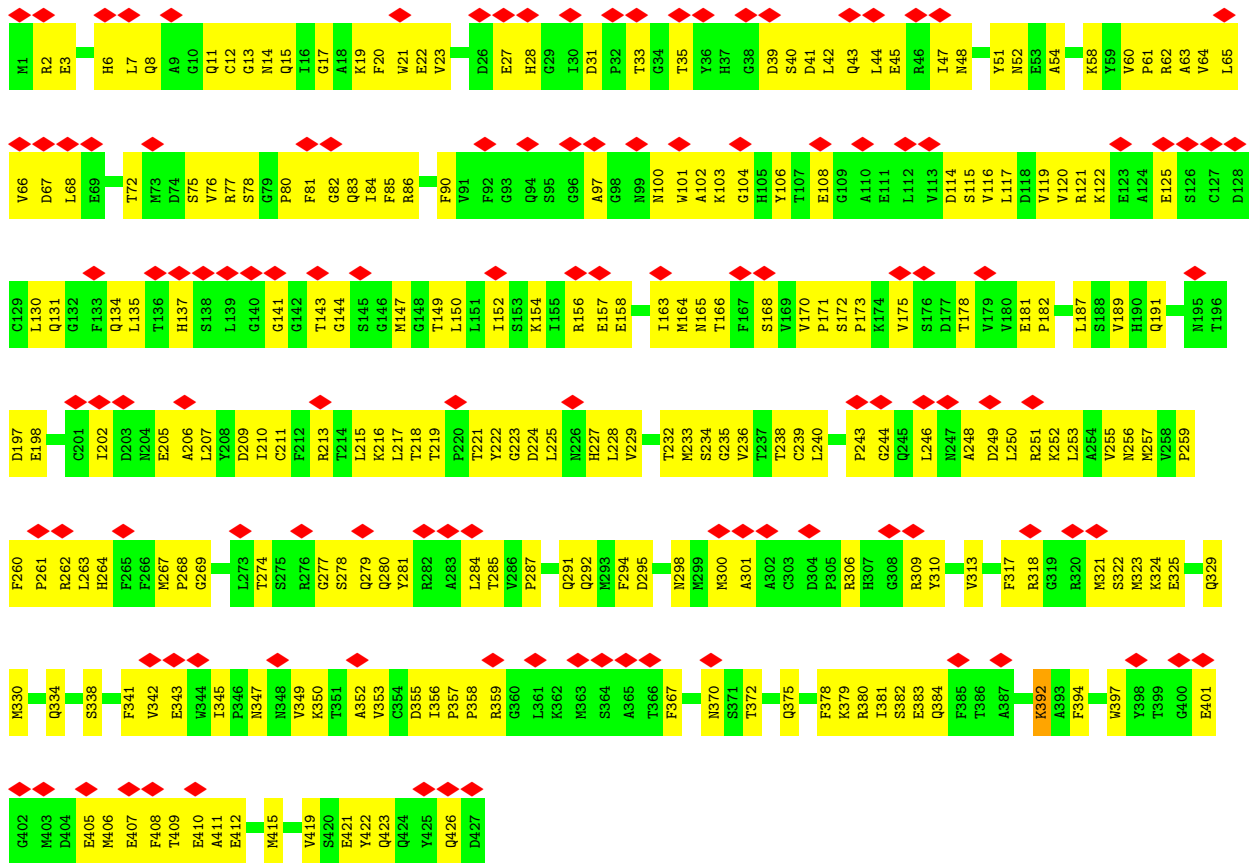
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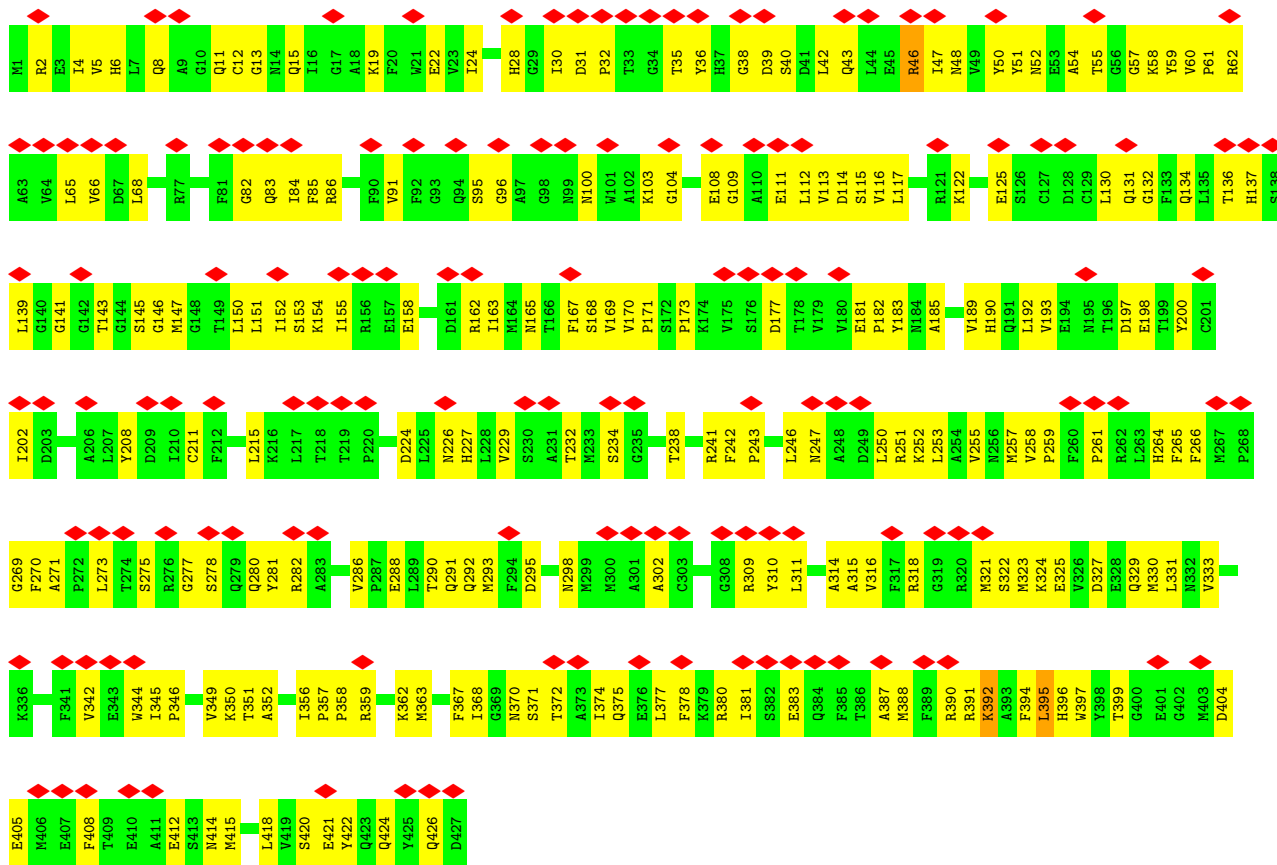


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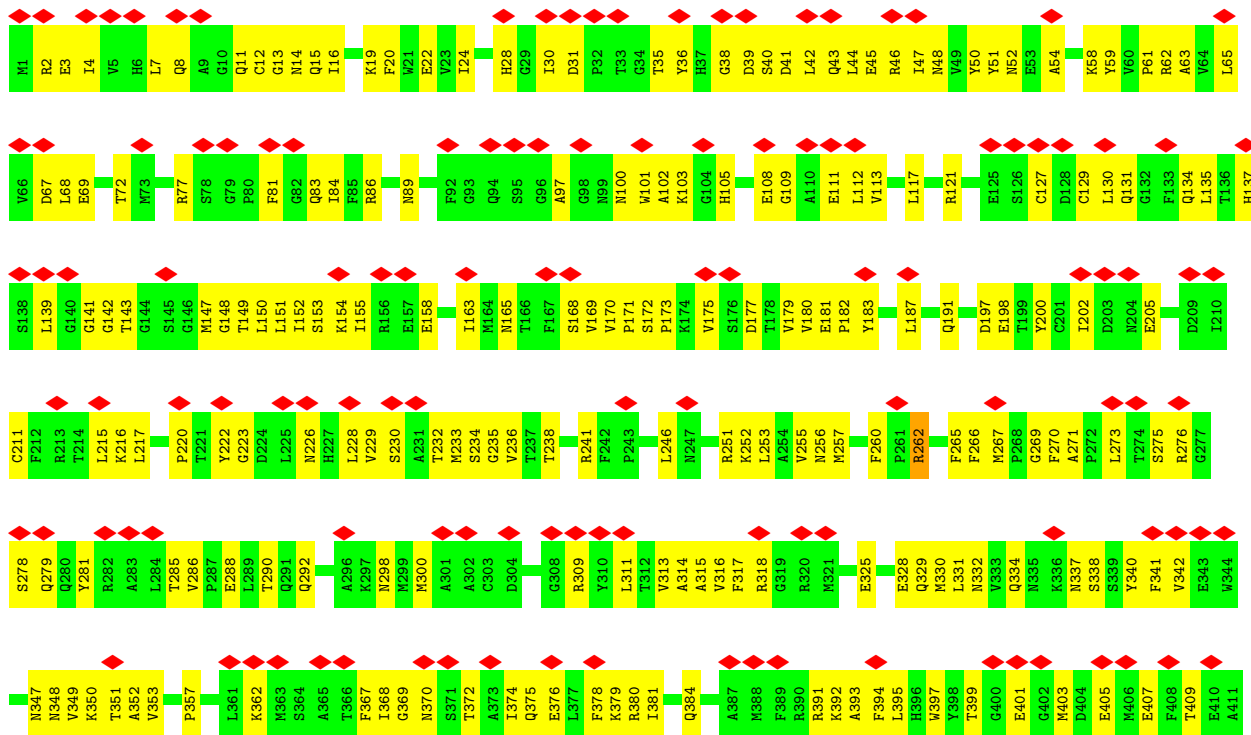


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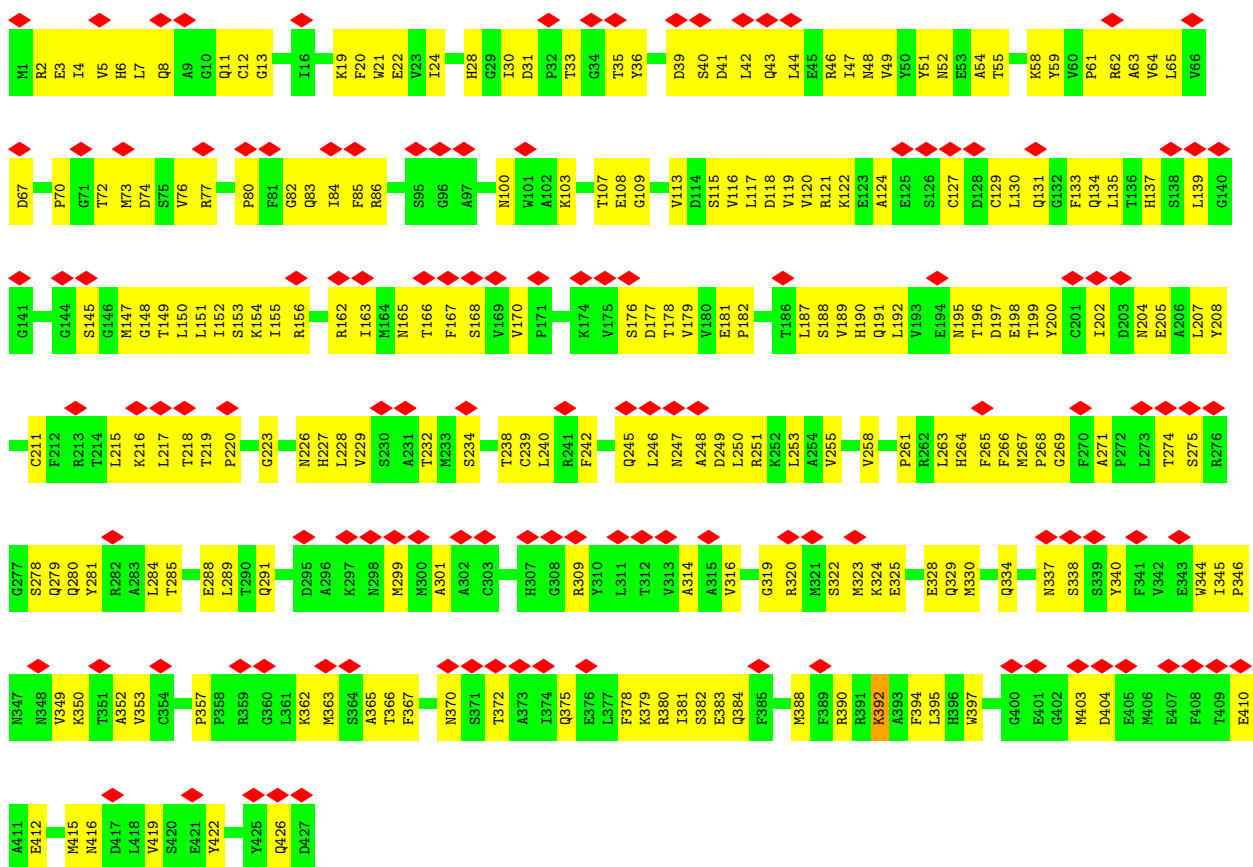


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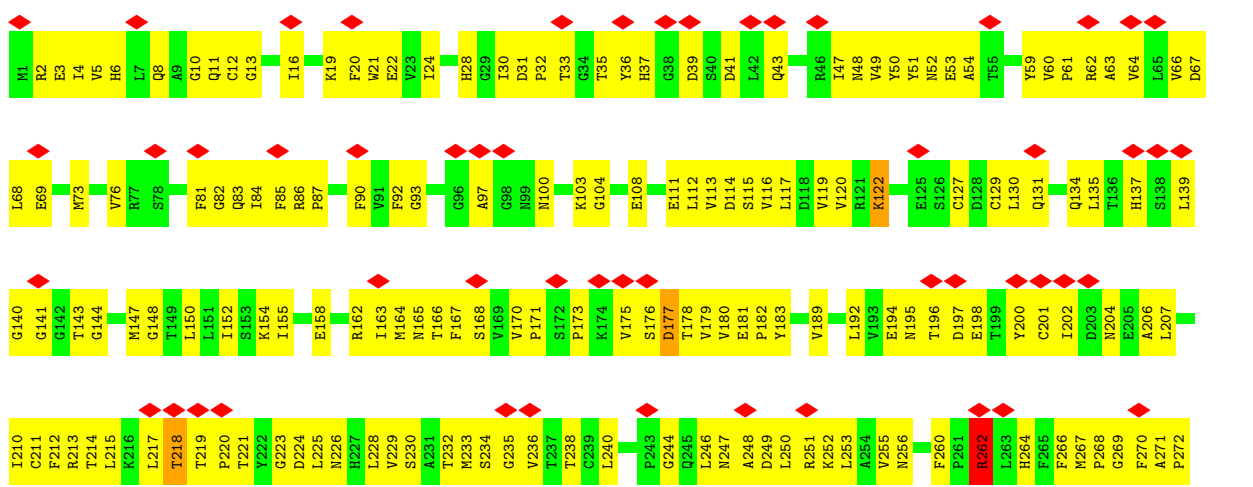


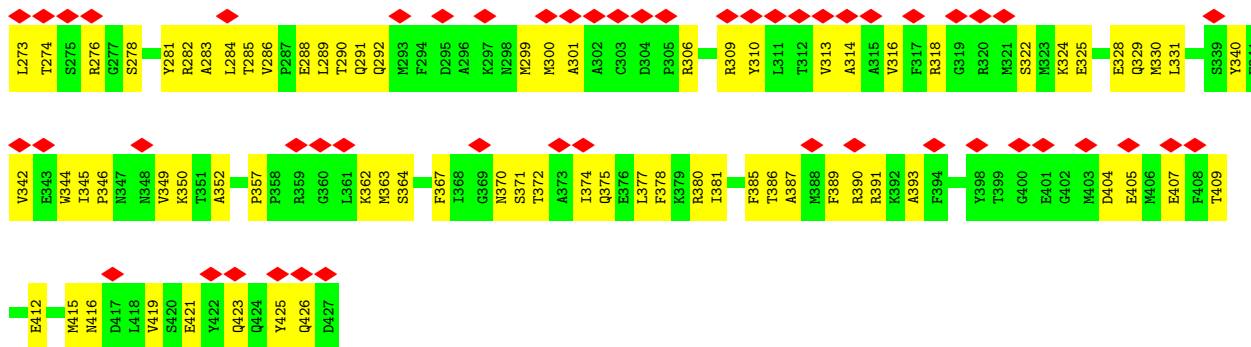


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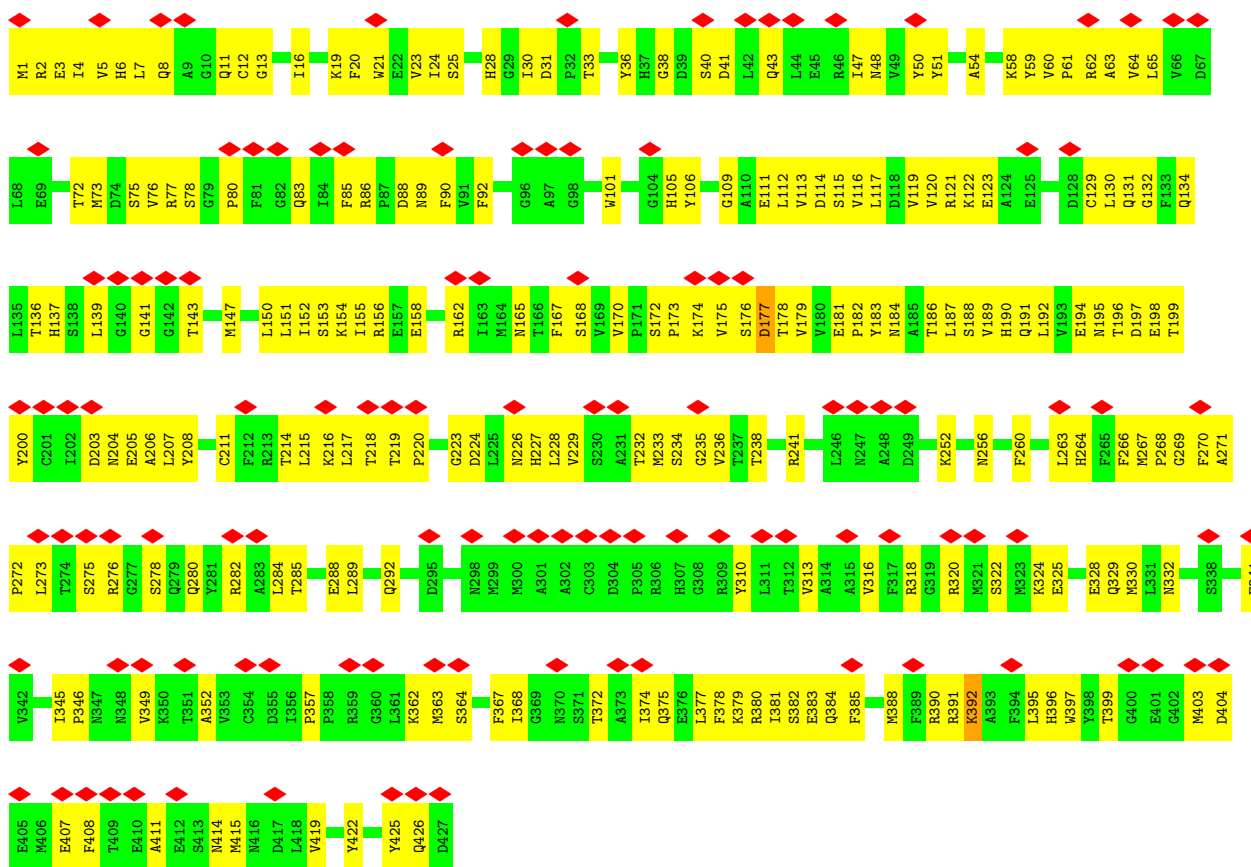


• Molecule 3: Tubulin beta-4B chain

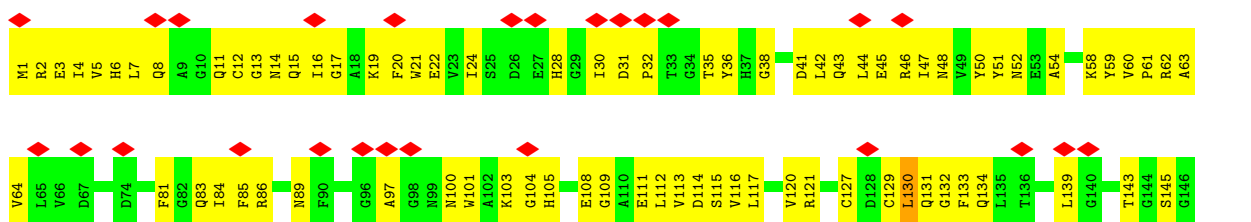
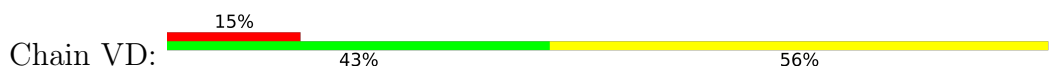


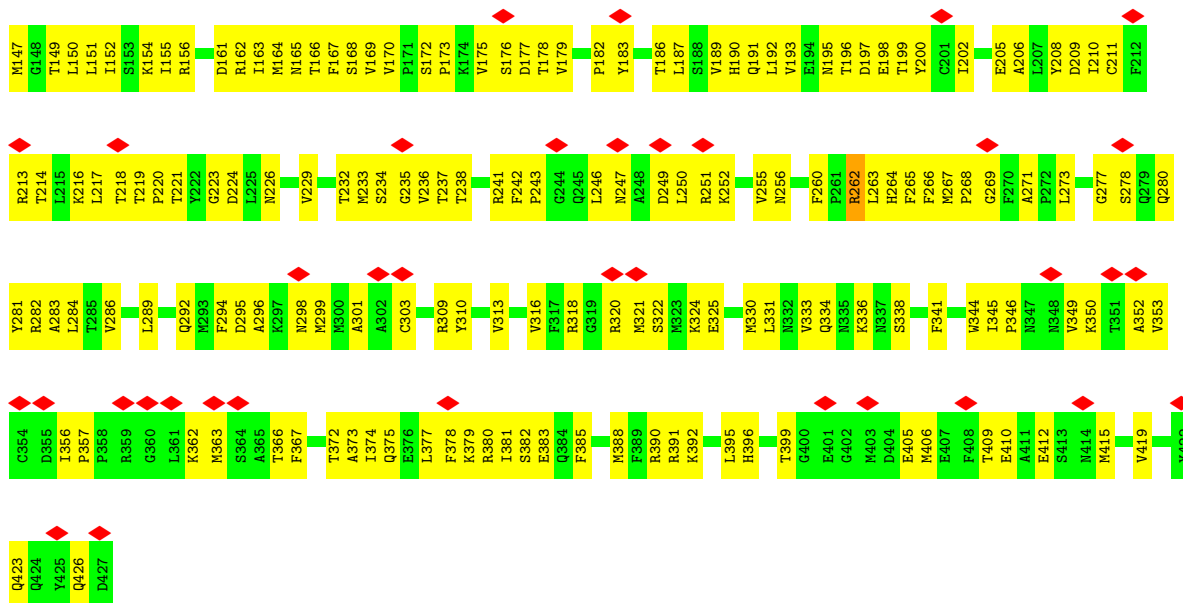


• Molecule 3: Tubulin beta-4B chain

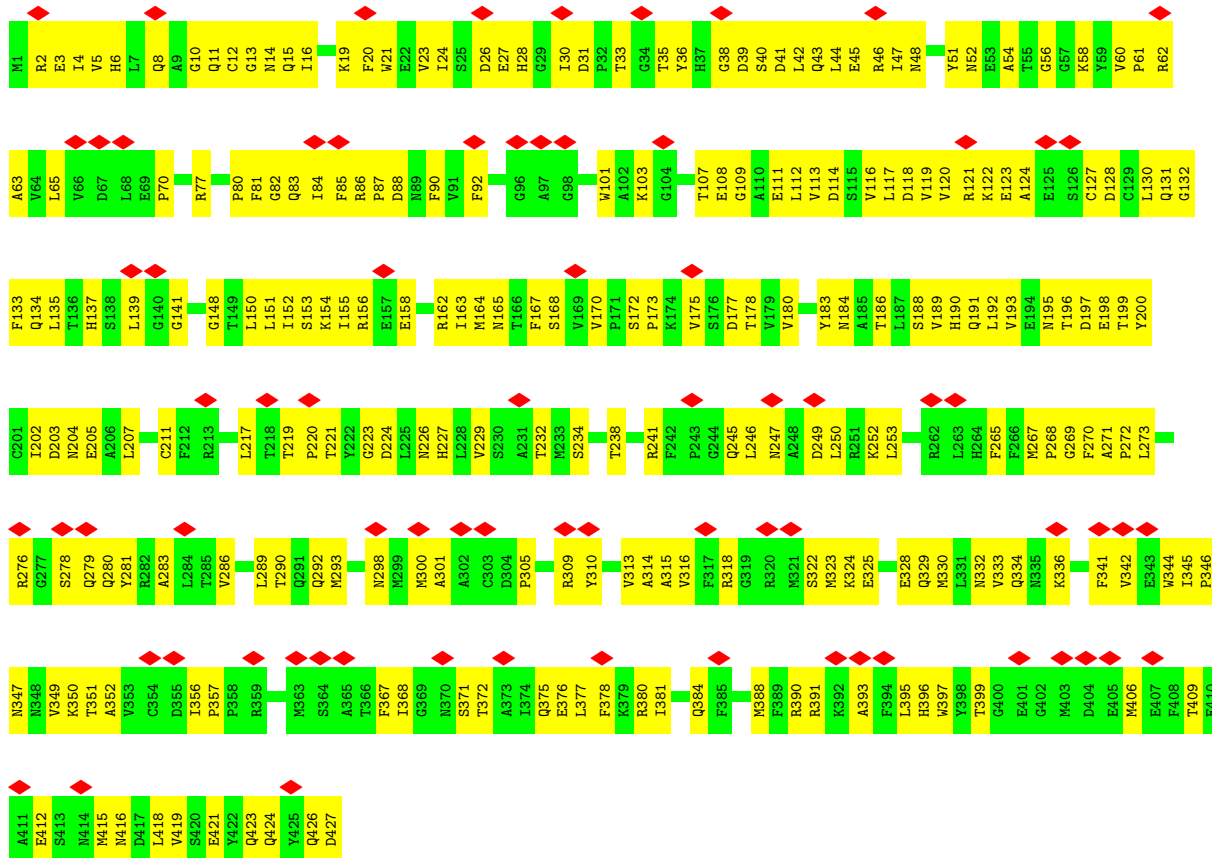


• Molecule 3: Tubulin beta-4B chain



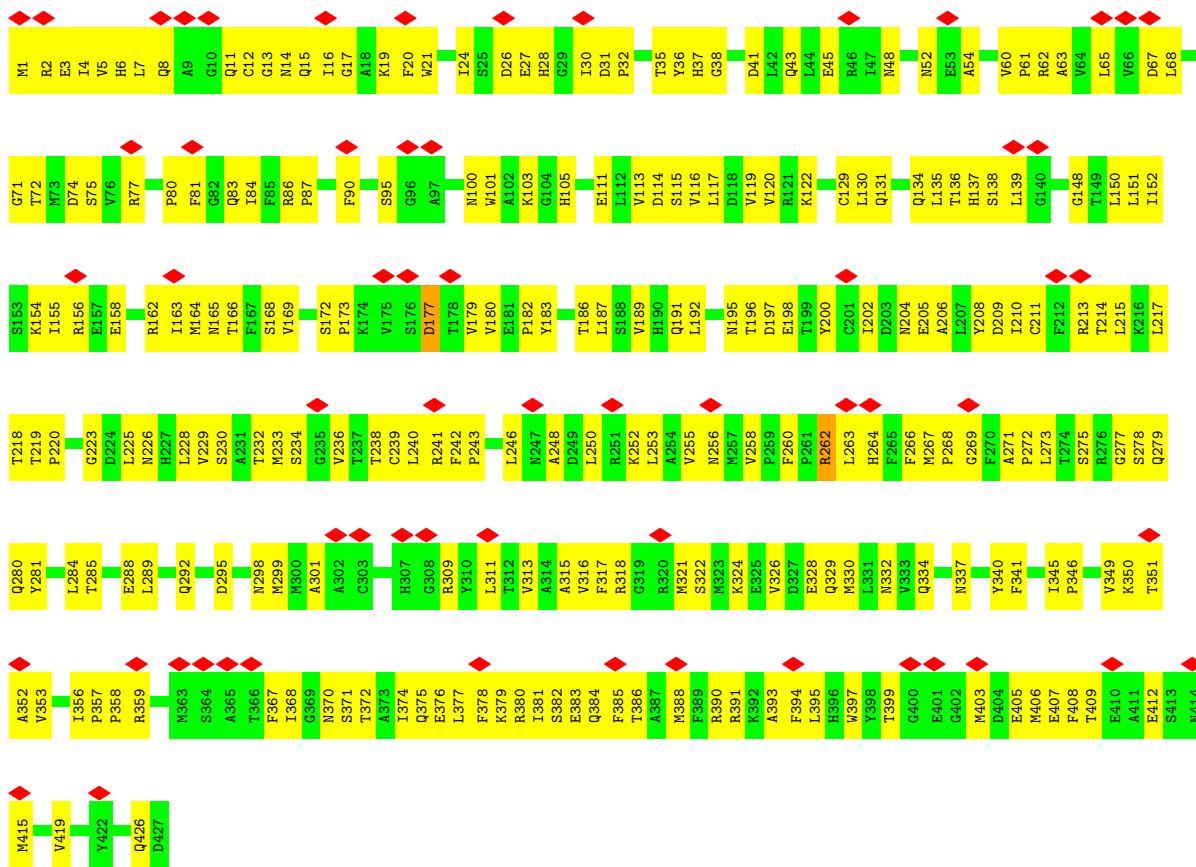


• Molecule 3: Tubulin beta-4B chain

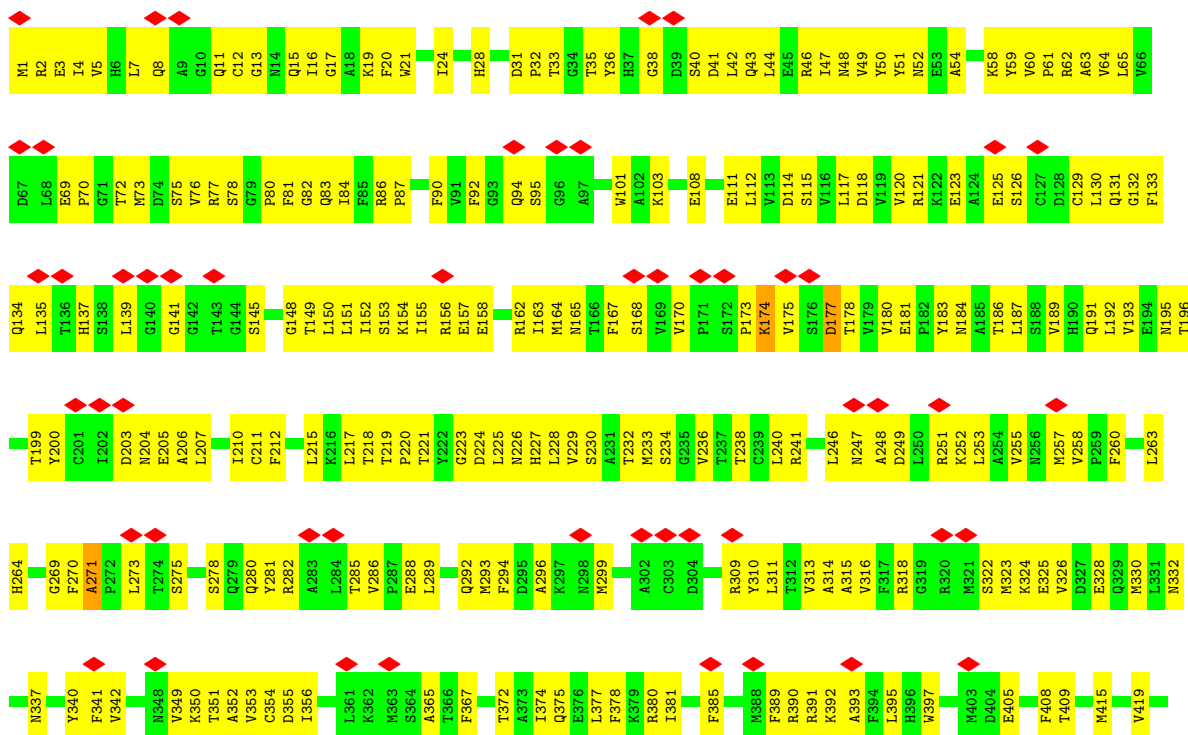


• Molecule 3: Tubulin beta-4B chain



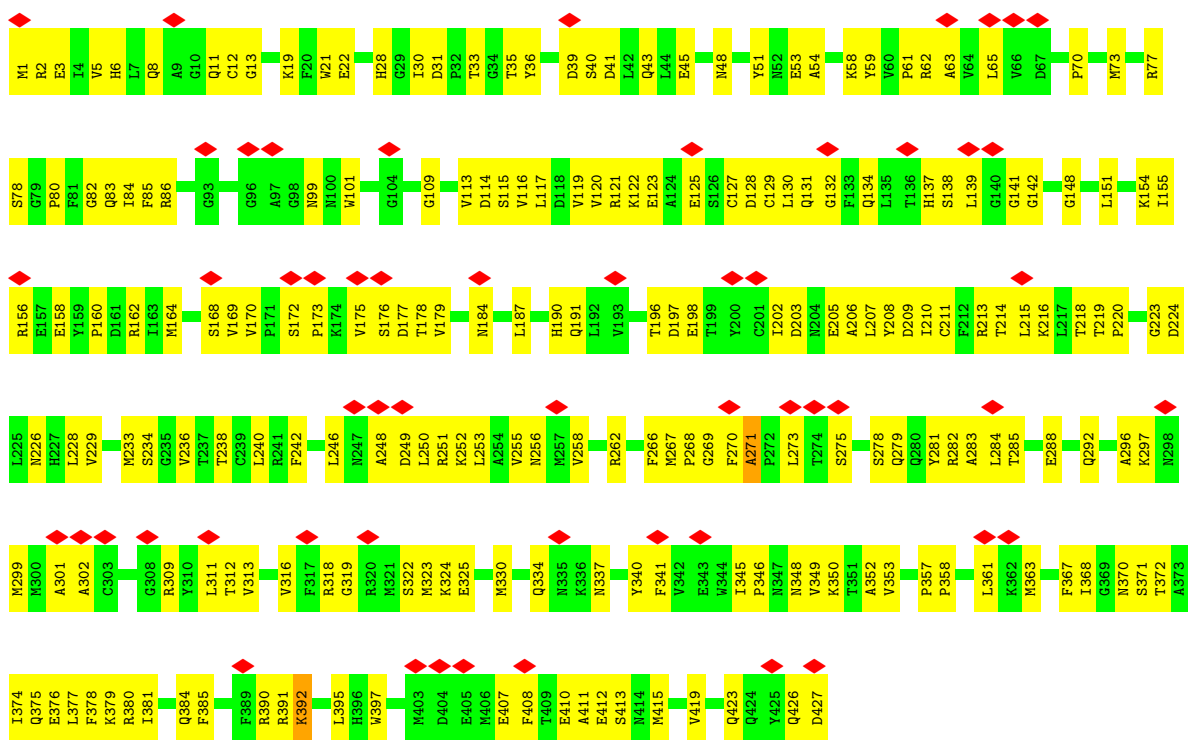


• Molecule 3: Tubulin beta-4B chain

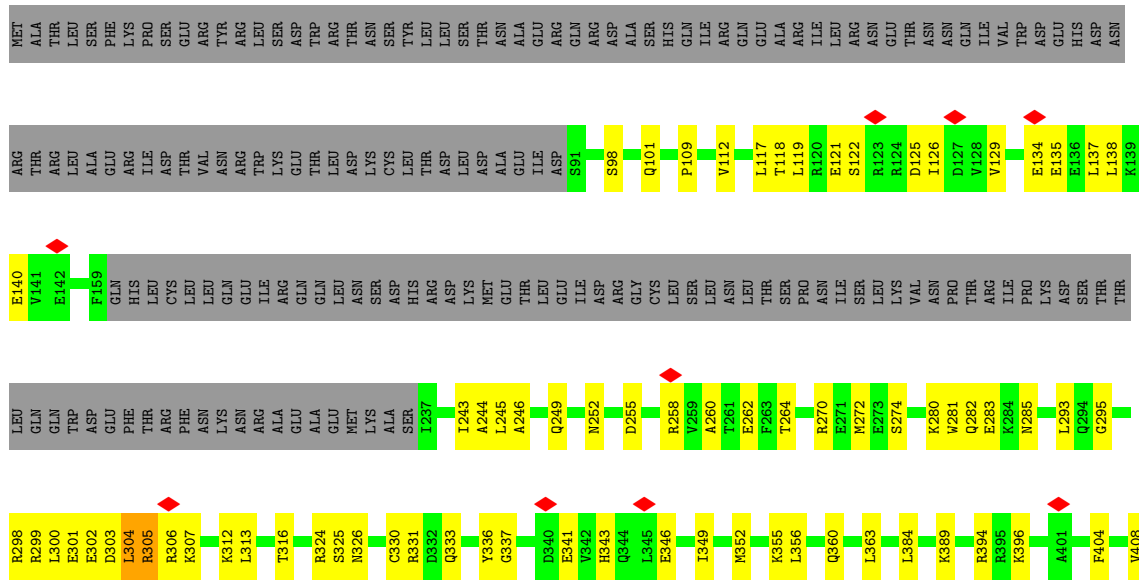


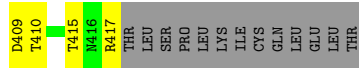


• Molecule 3: Tubulin beta-4B chain

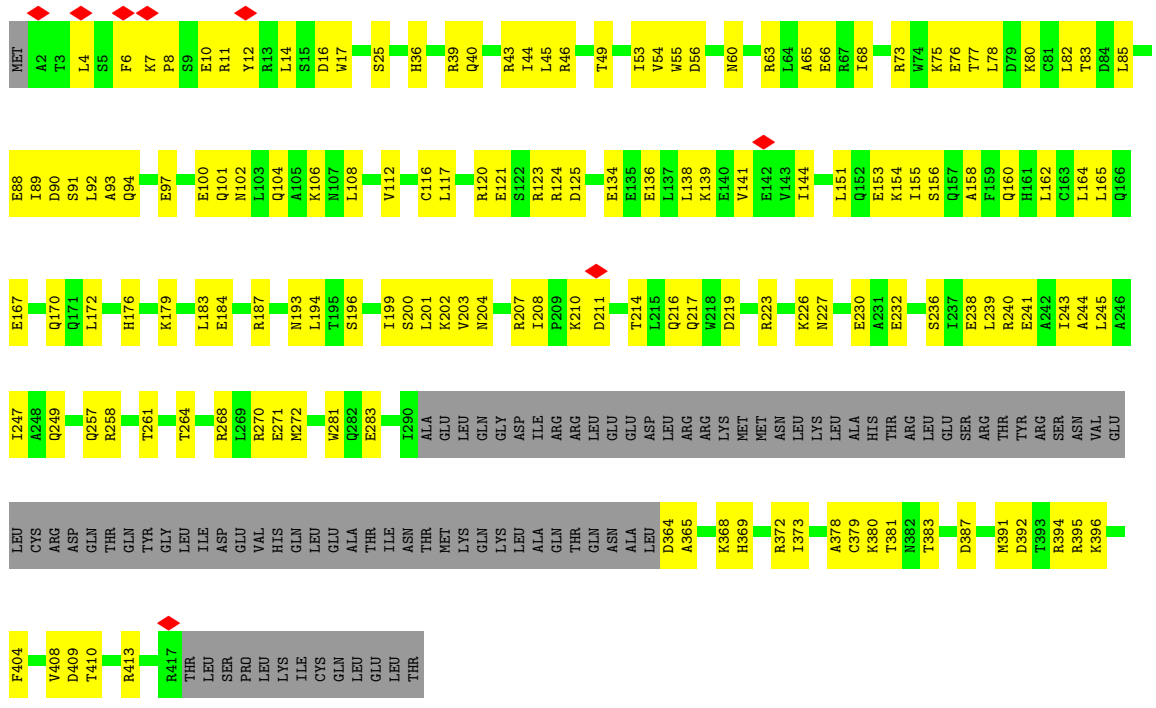


• Molecule 4: Tektin-2

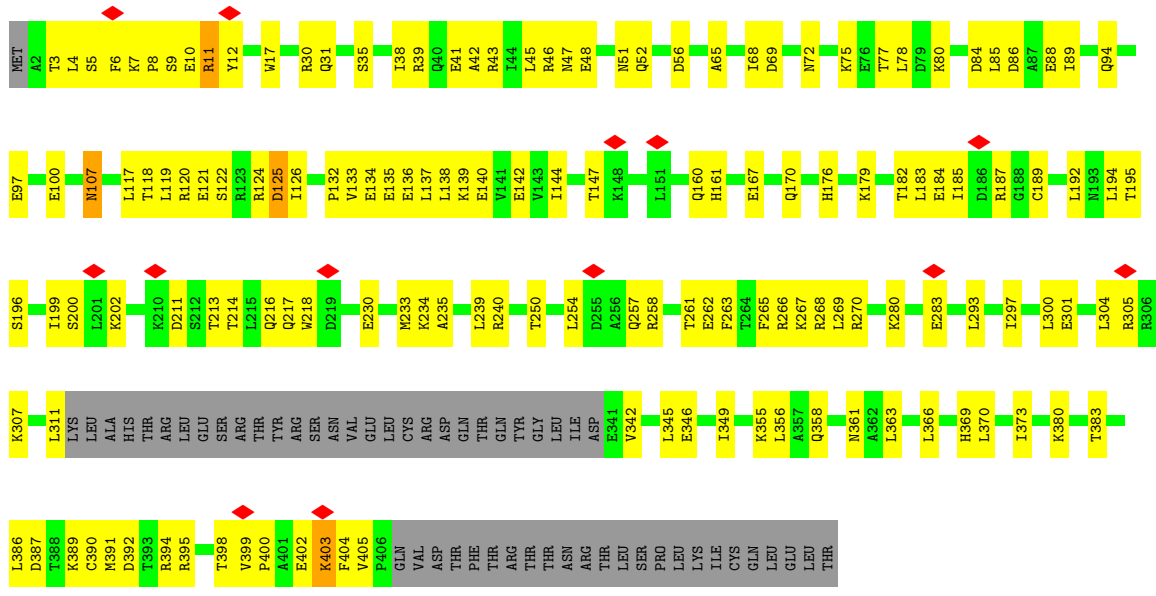




• Molecule 4: Tektin-2



• Molecule 4: Tektin-2

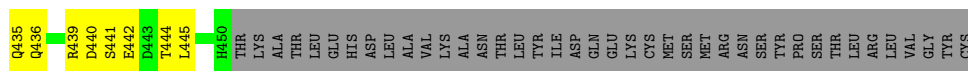


• Molecule 4: Tektin-2

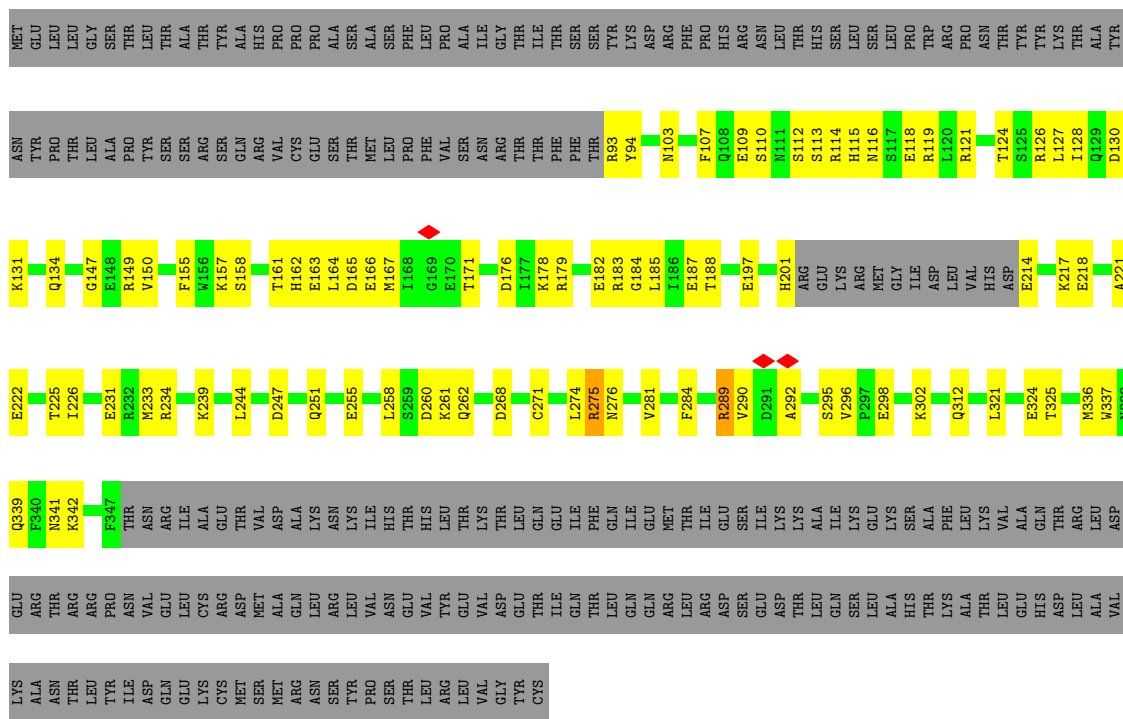
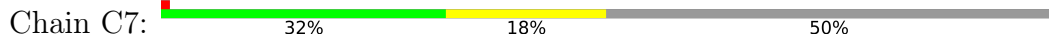




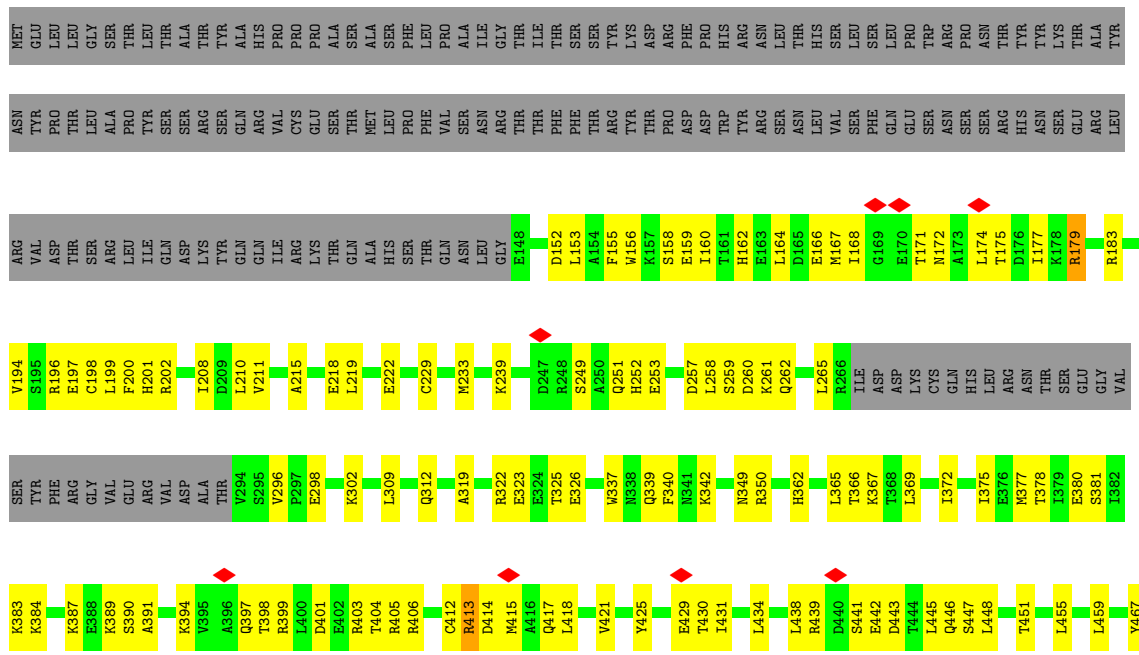


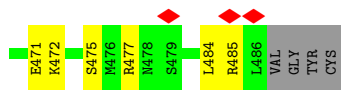


• Molecule 5: Tektin-3

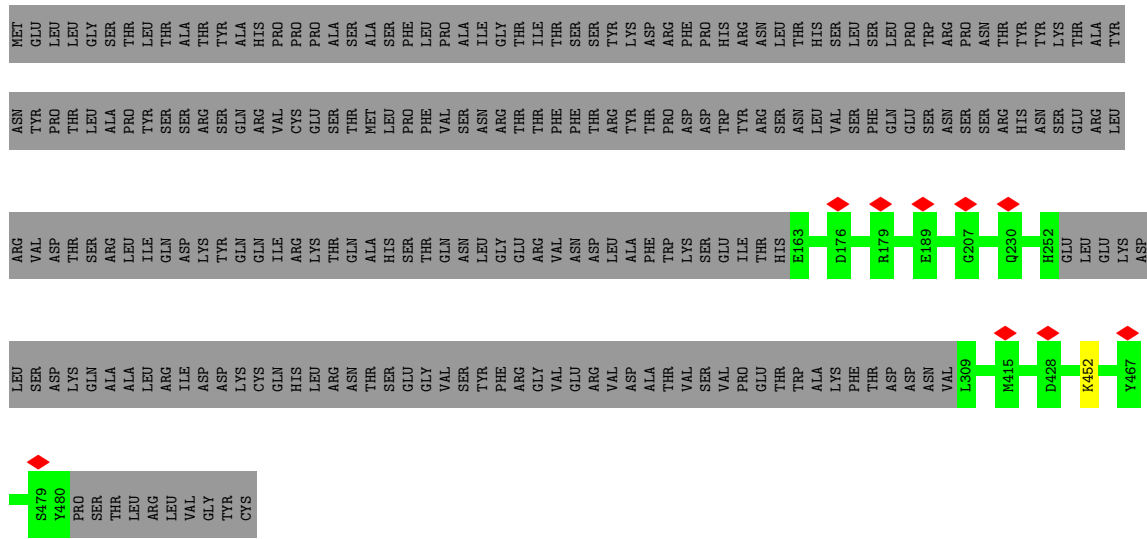


• Molecule 5: Tektin-3

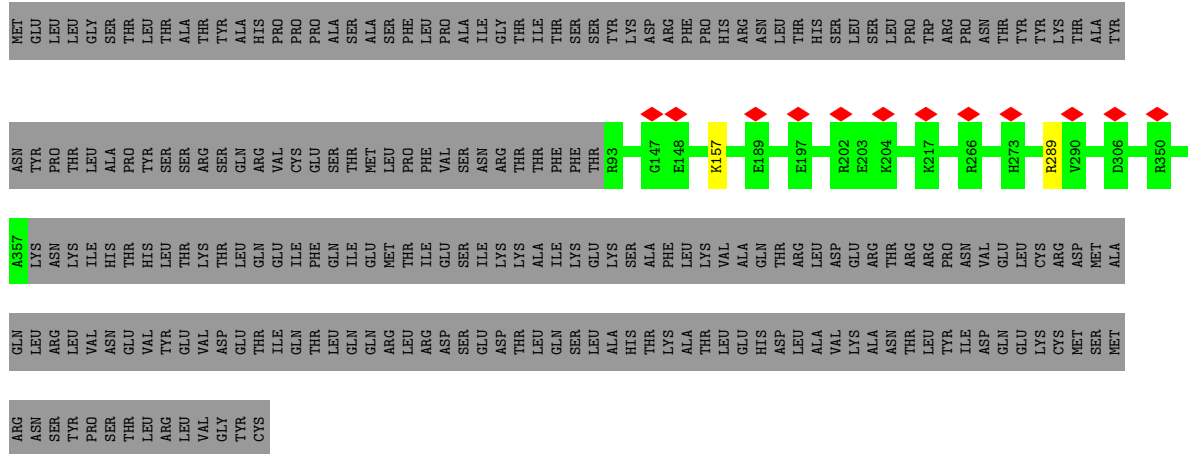




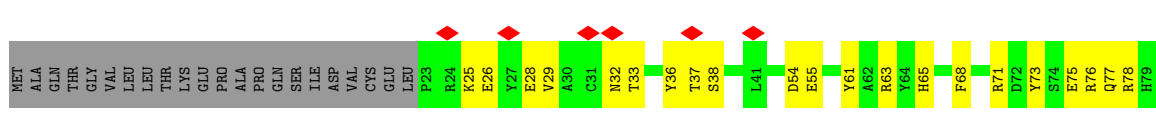
• Molecule 5: Tektin-3

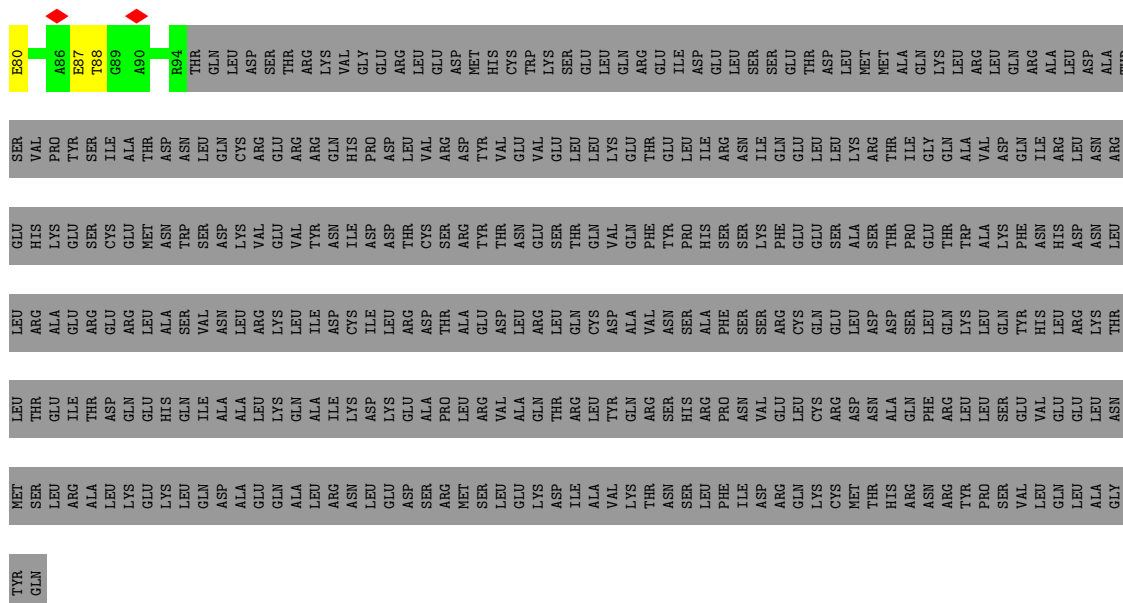


• Molecule 5: Tektin-3

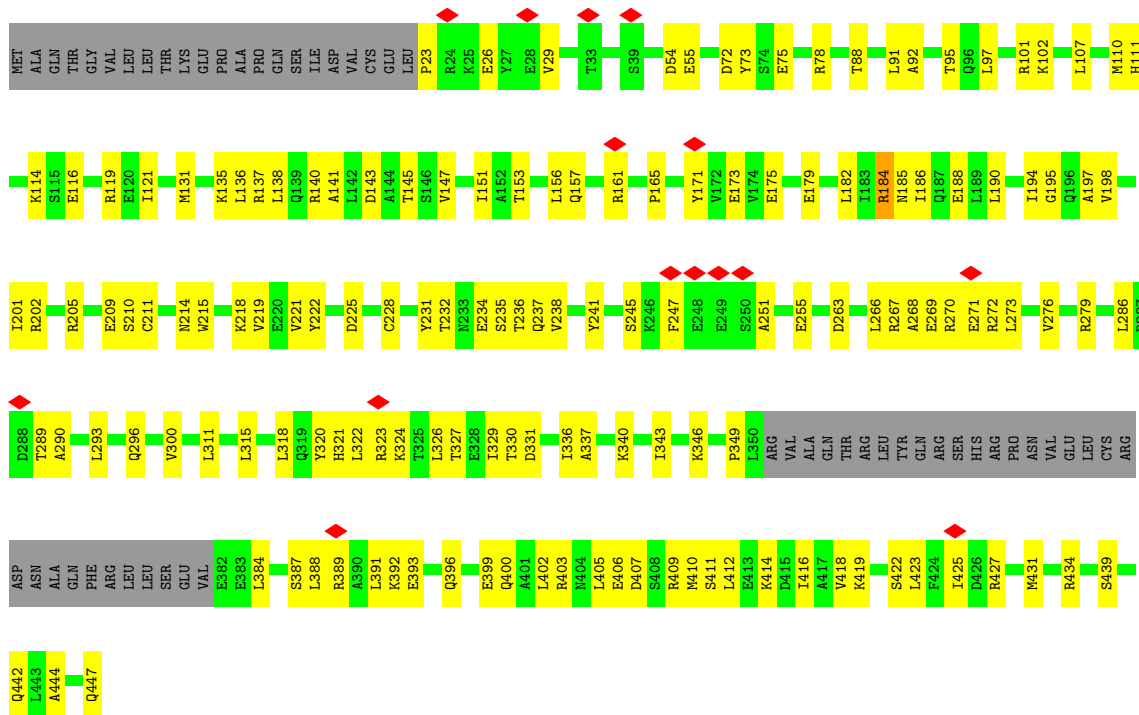


• Molecule 6: Tektin-4

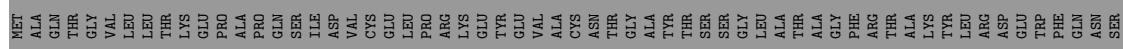


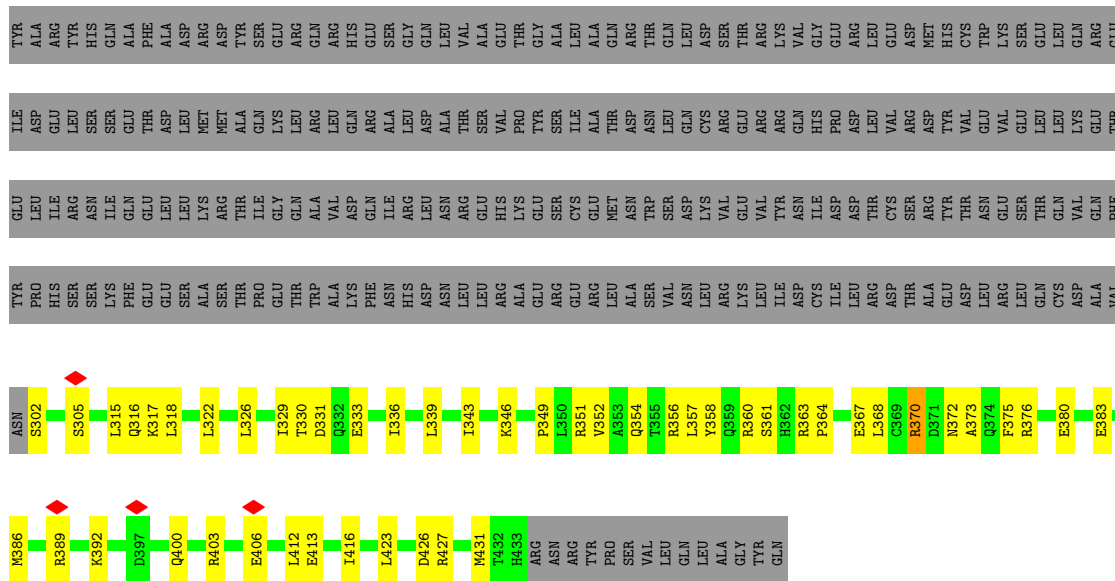


● Molecule 6: Tektin-4

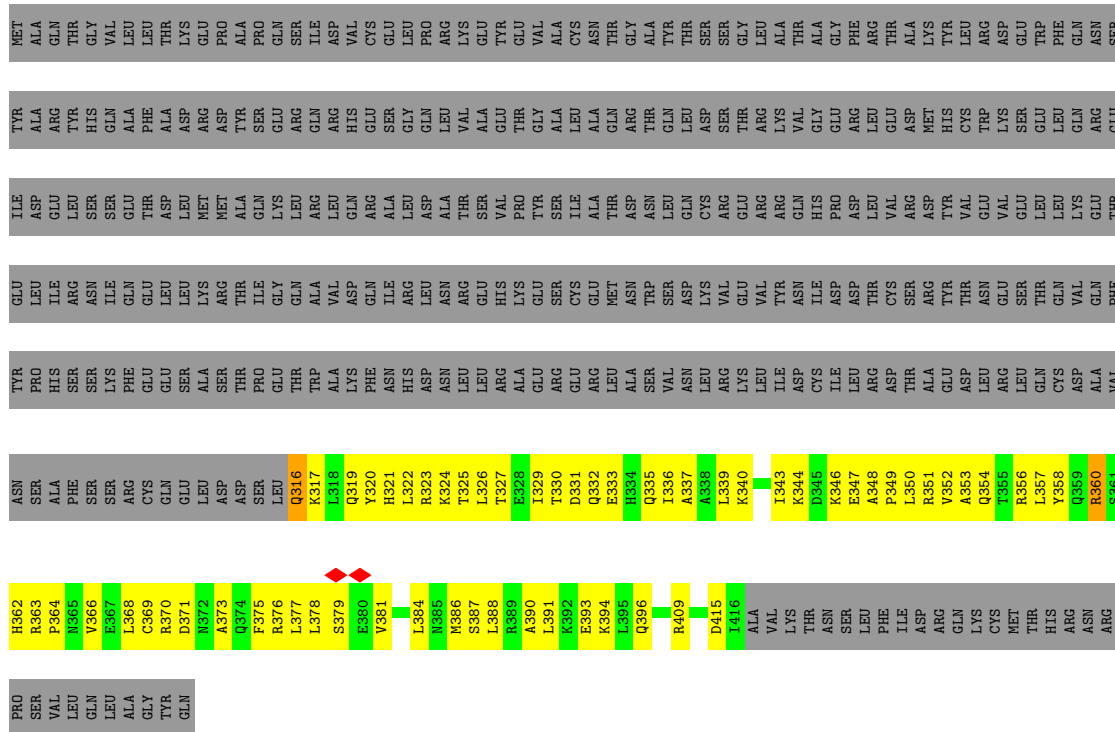


● Molecule 6: Tektin-4

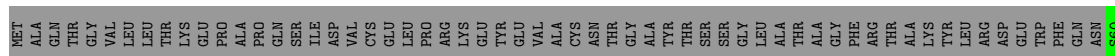


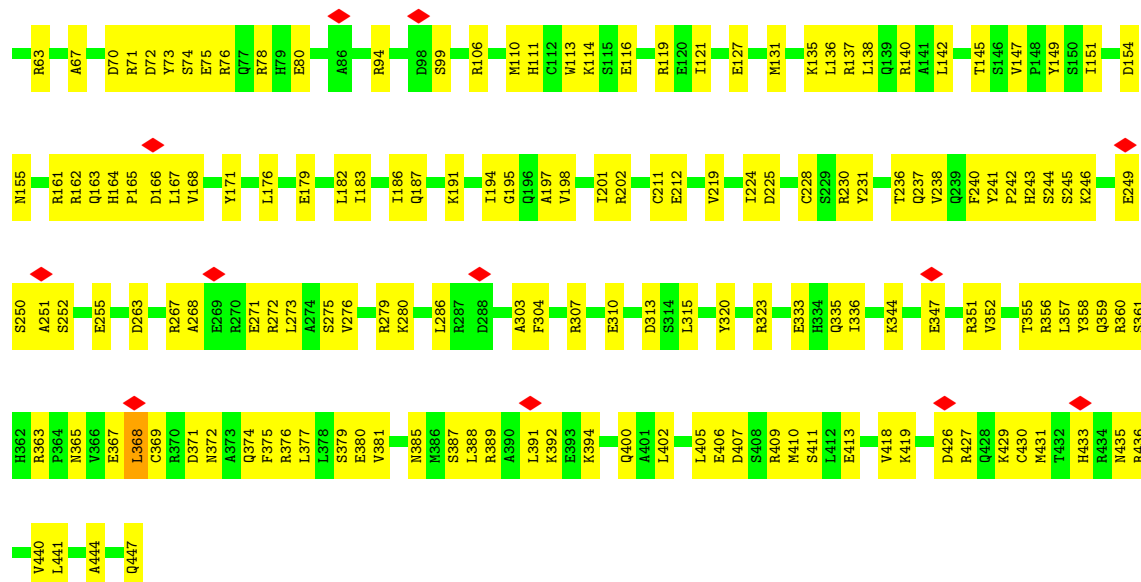


● Molecule 6: Tektin-4

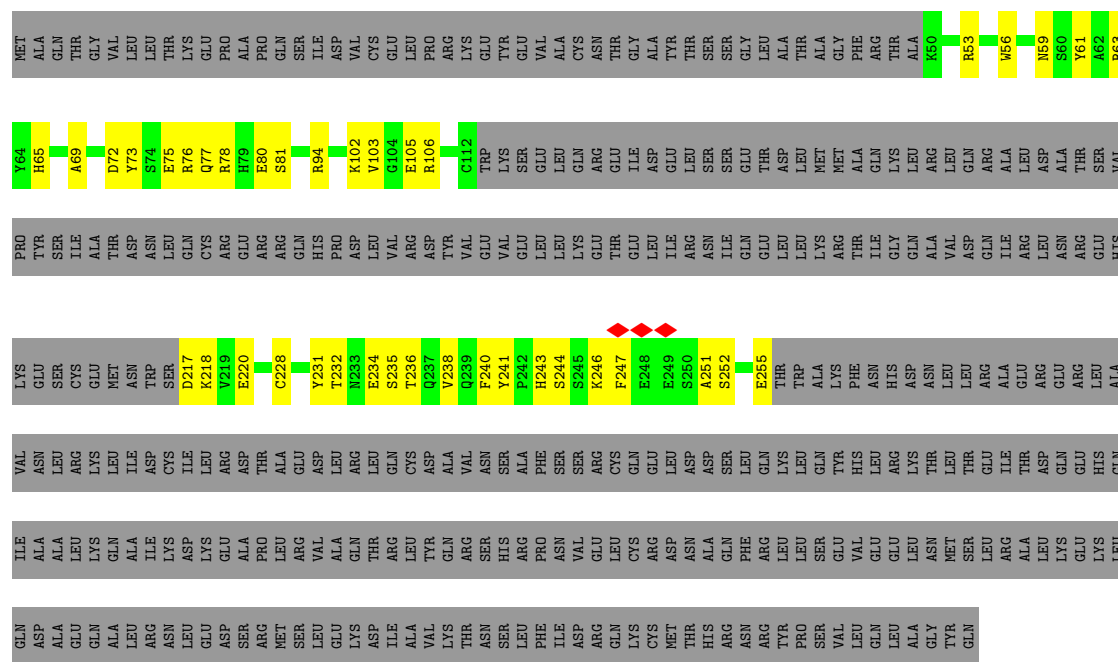


● Molecule 6: Tektin-4



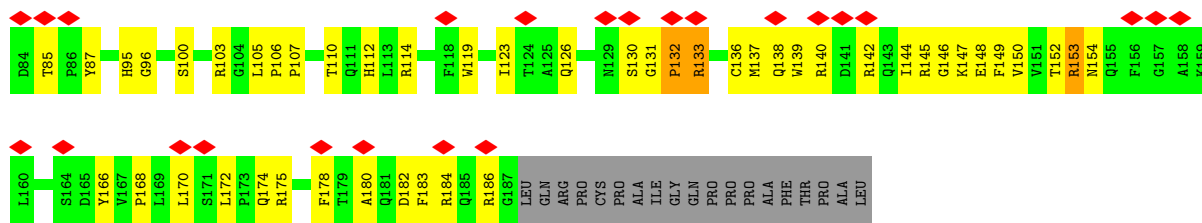


- Molecule 6: Tektin-4

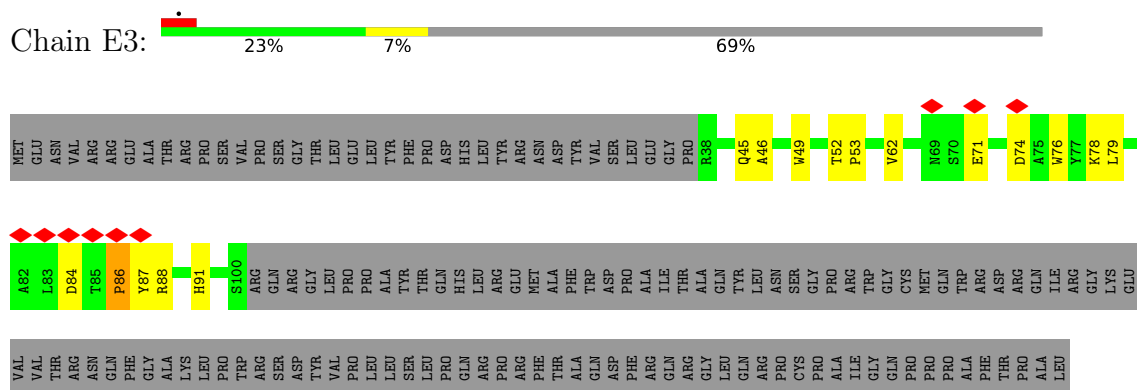


- Molecule 7: Tektin bundle-interacting protein 1

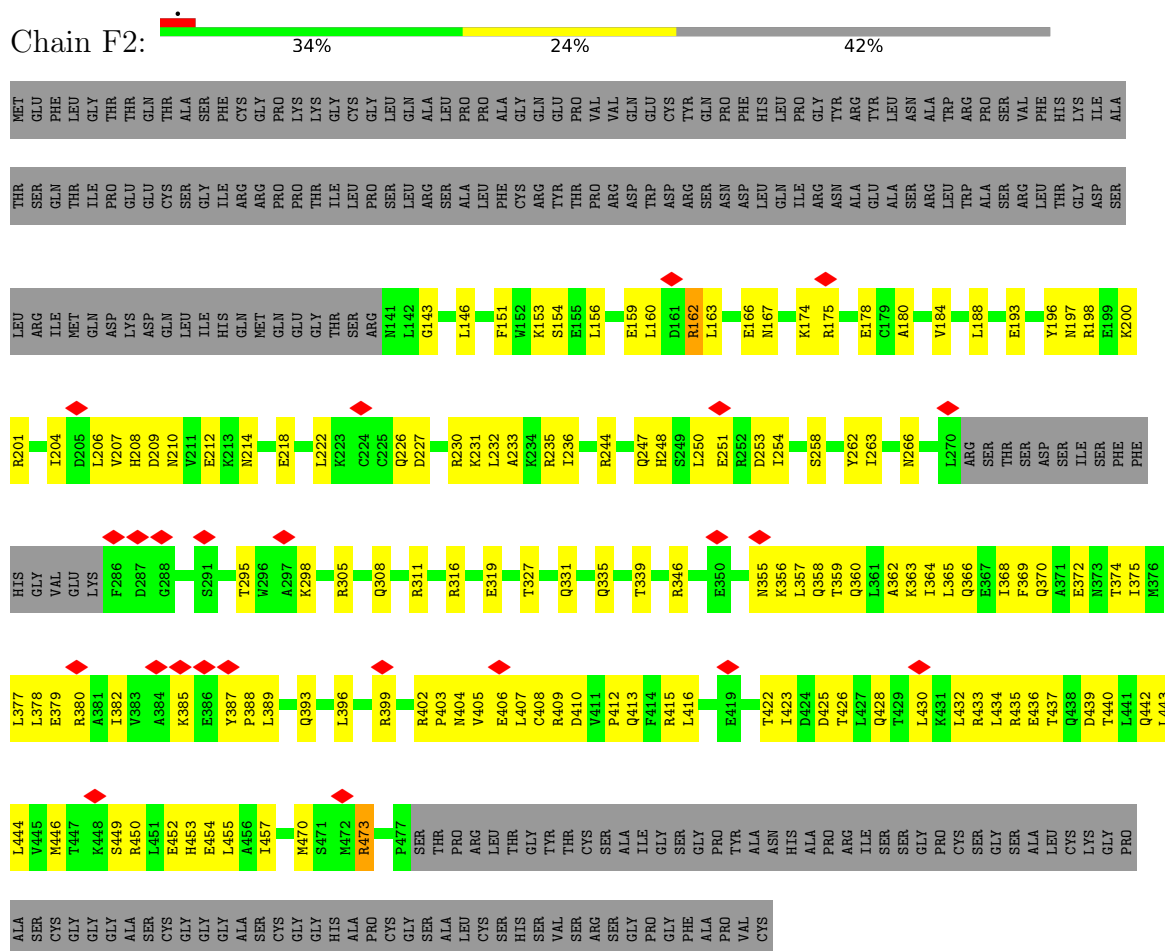




• Molecule 7: Tektin bundle-interacting protein 1



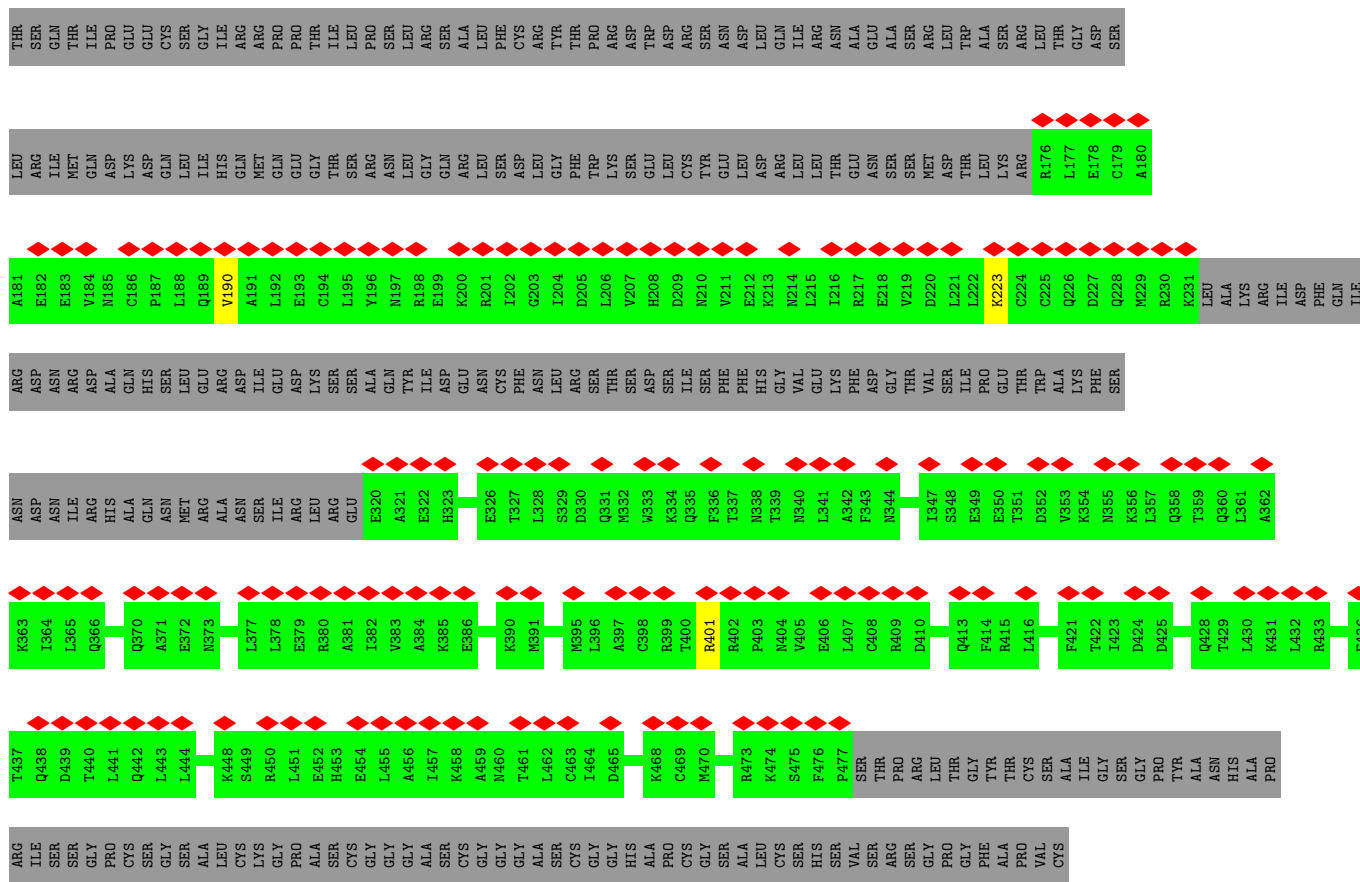
• Molecule 8: Tektin-5



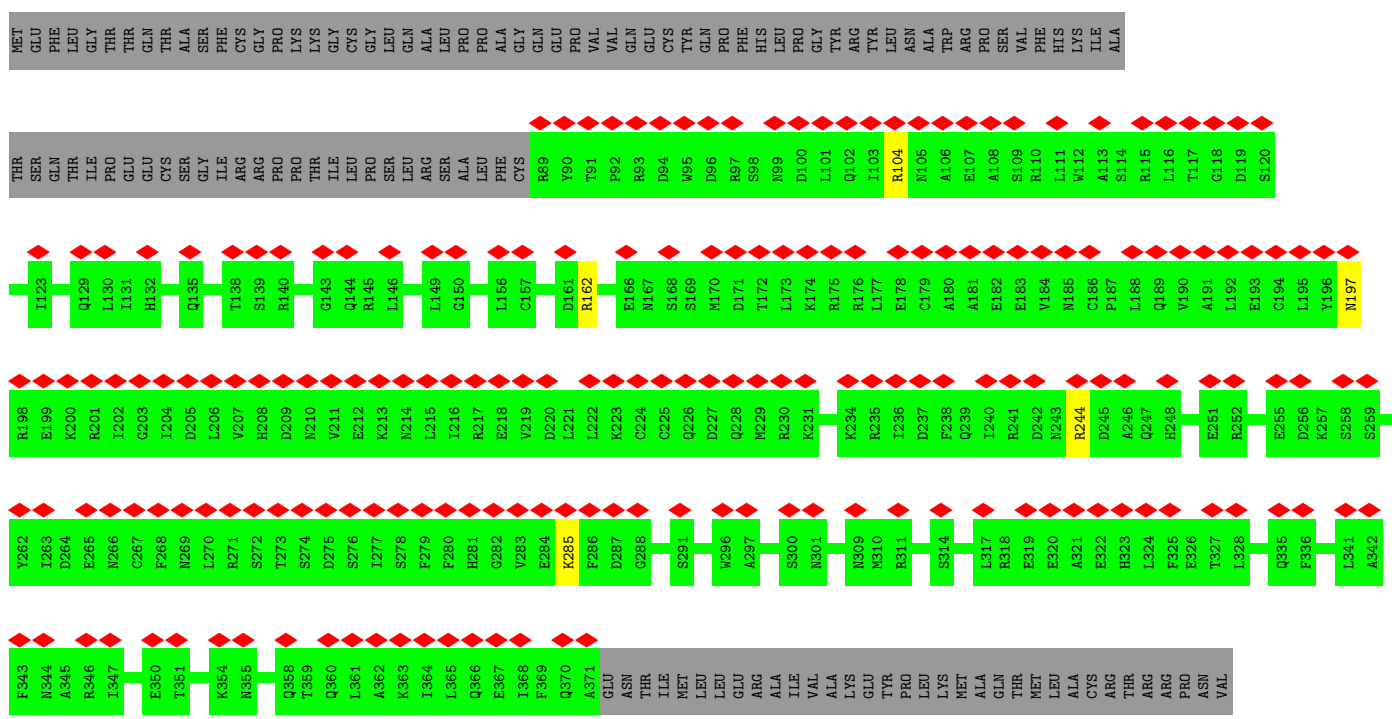
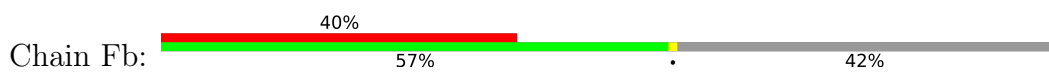




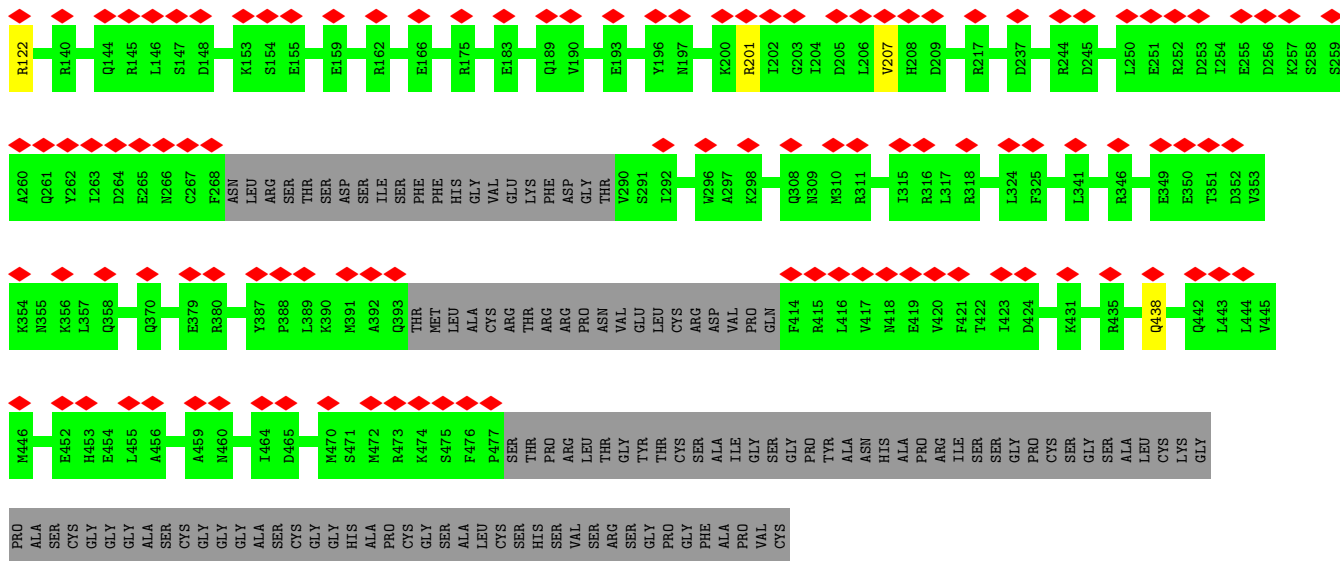




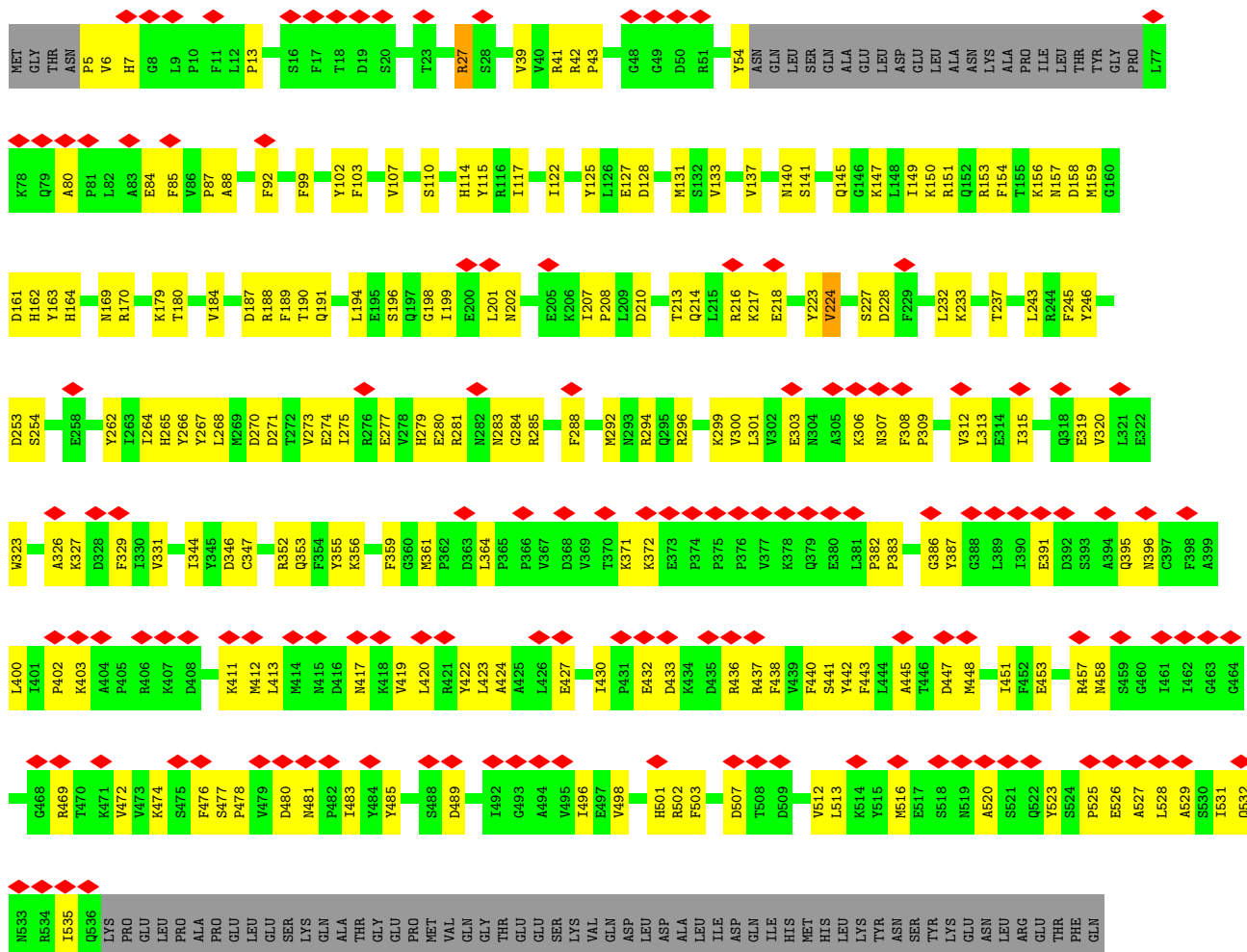
• Molecule 8: Tektin-5





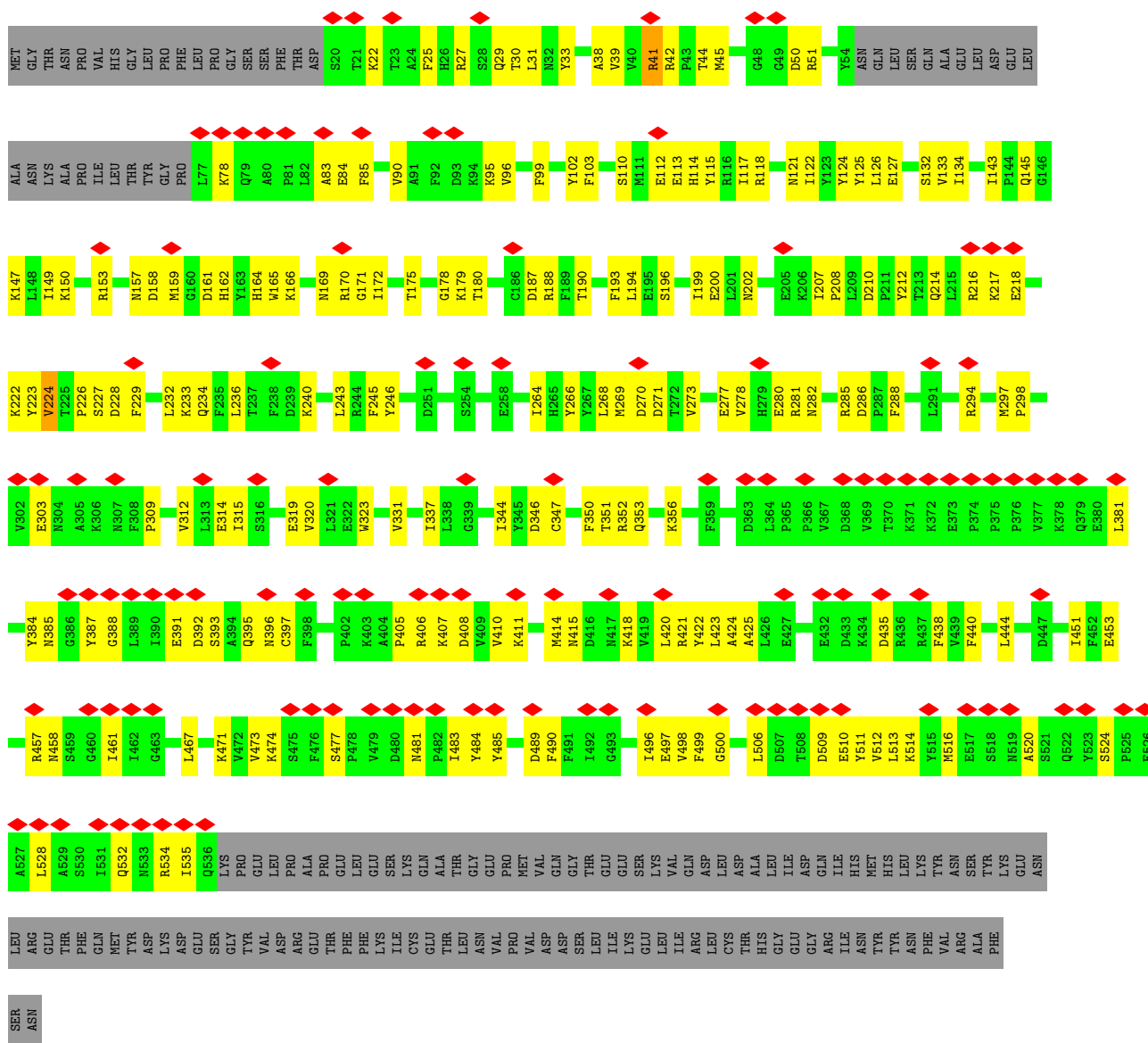


• Molecule 9: EF-hand domain-containing protein 1

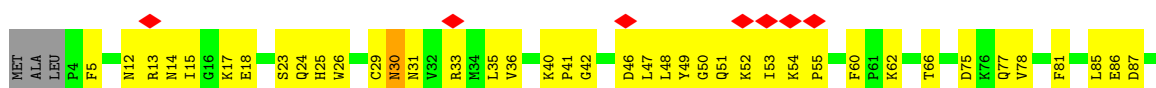


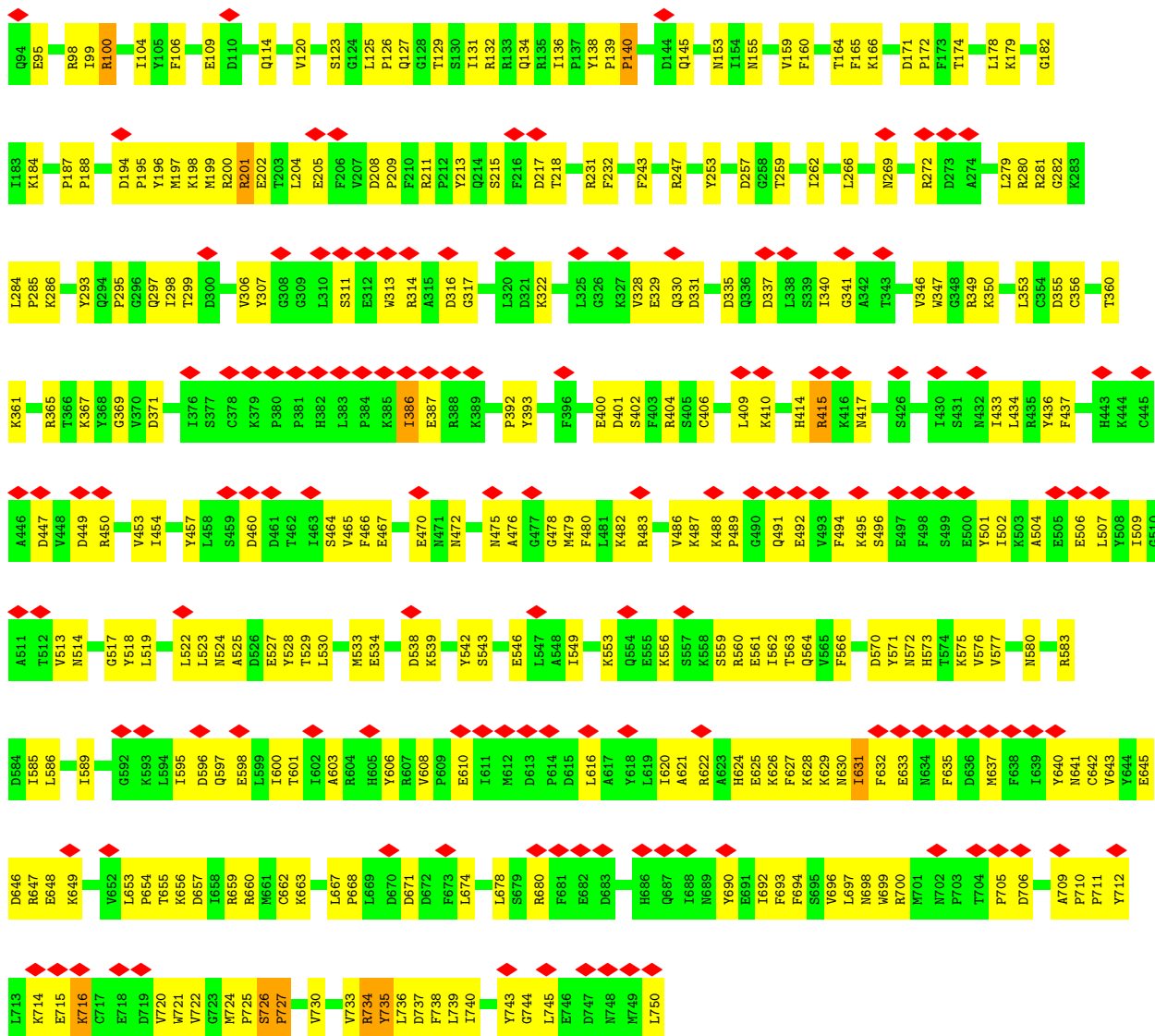
MET	TYR	ASP	LYS	GLU	SER	GLY	VAL	PRO	ASP	ARG	LEU	PRO	ASP	VAL	GLY	THR	GLY	THR	ASP	ASP	SER	LEU	ILE	LYS	GLY	GLY	GLY	ARG	ILE	ASN	TYR	ASN	PHE	VAL	ARG	ALA	PHE	SER	ASN
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

• Molecule 9: EF-hand domain-containing protein 1

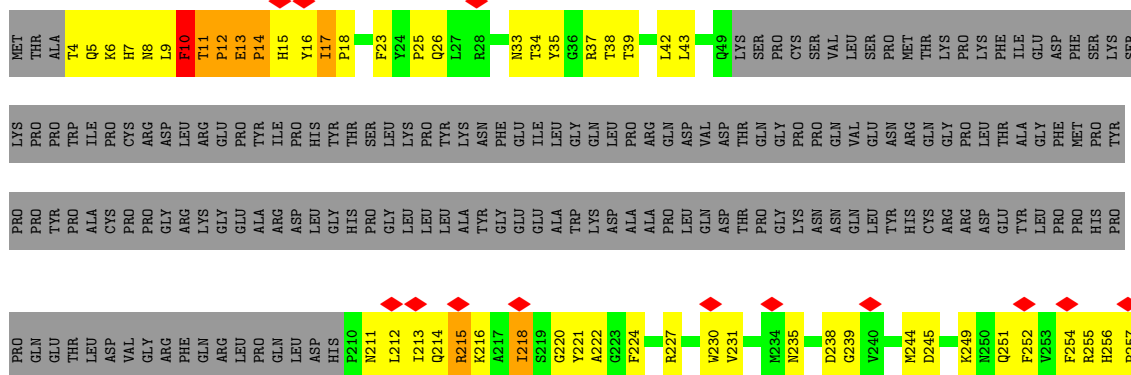


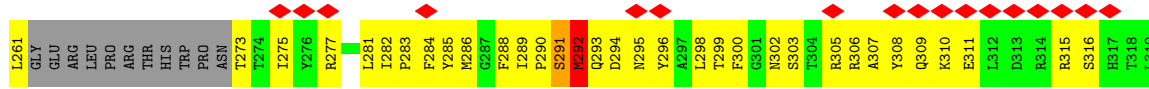
• Molecule 10: EF-hand domain-containing family member C2



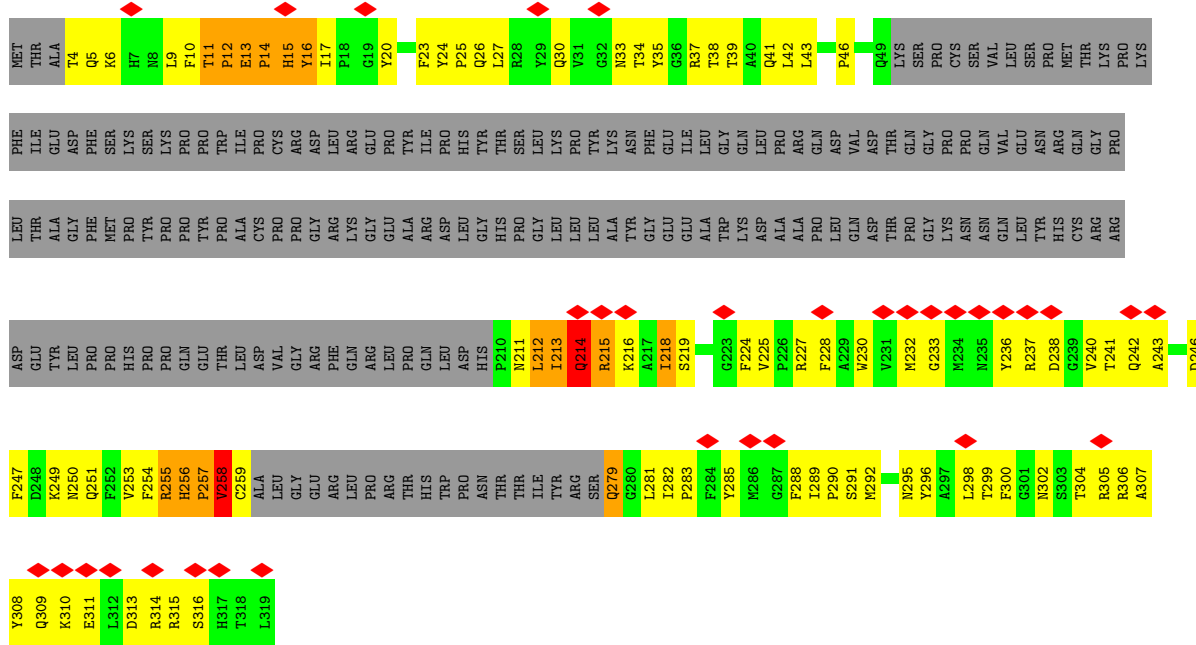


• Molecule 11: Protein FAM166A

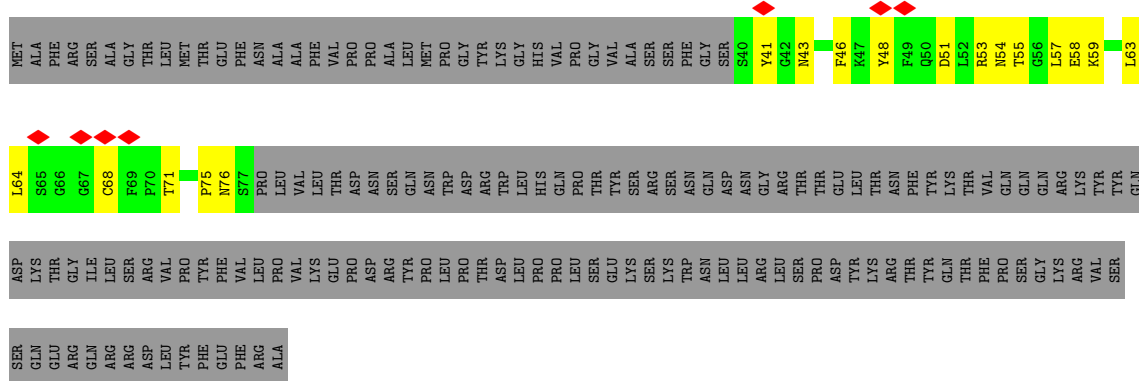




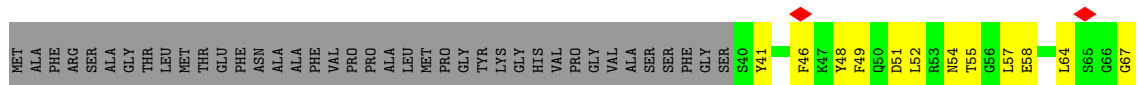
• Molecule 11: Protein FAM166A



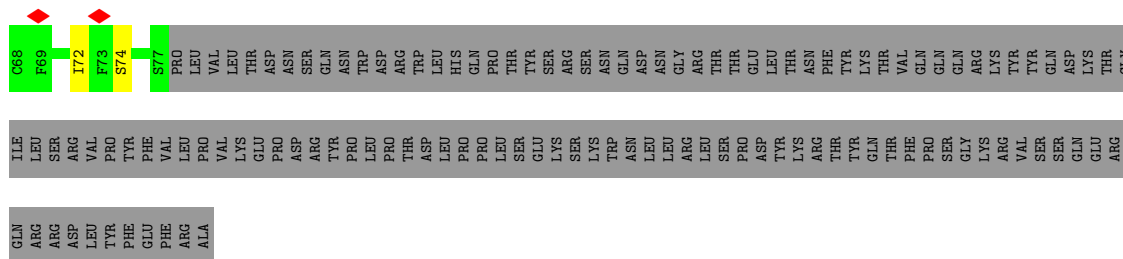
• Molecule 12: Protein FAM166C



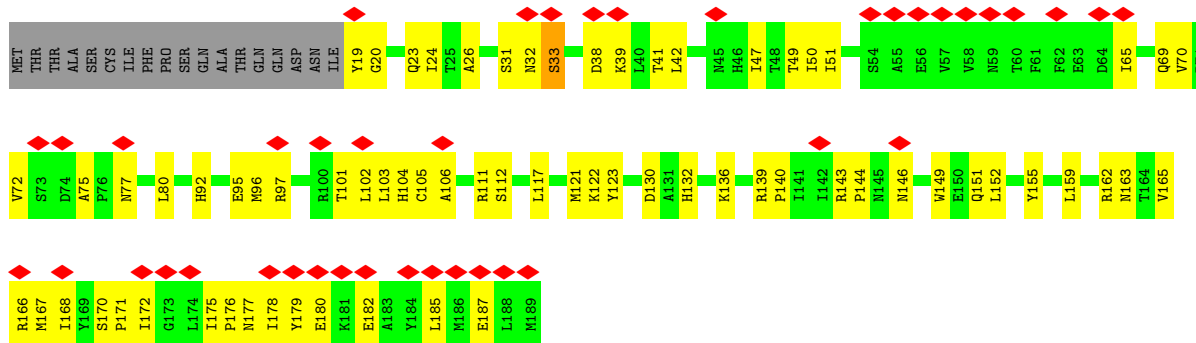
• Molecule 12: Protein FAM166C



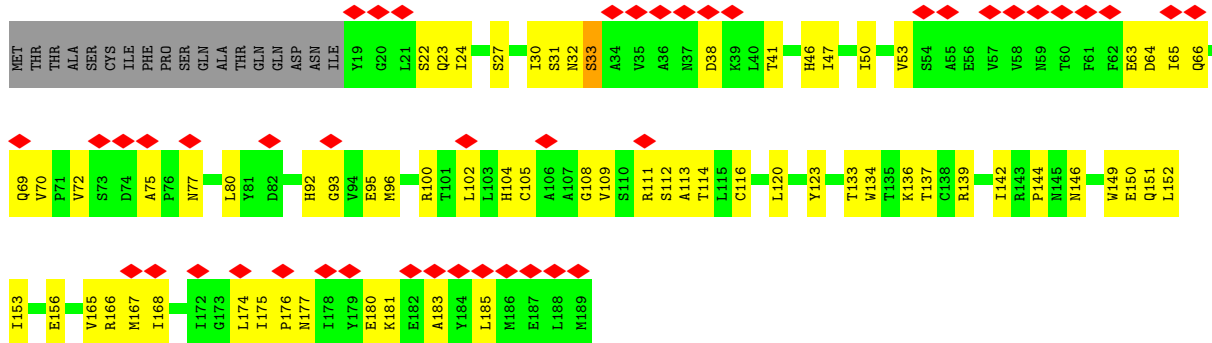




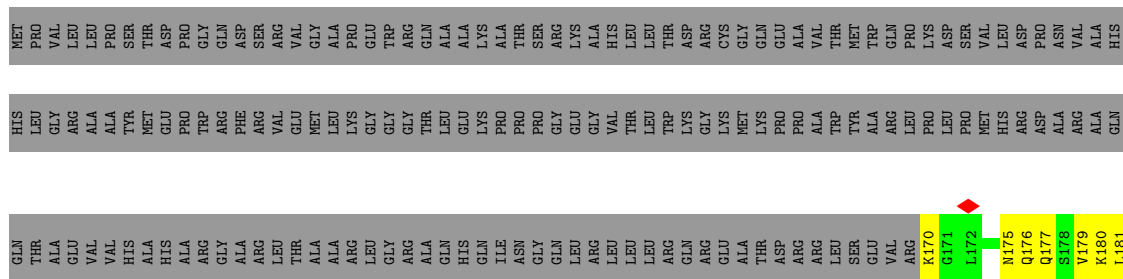
• Molecule 13: Dual specificity phosphatase 21



• Molecule 13: Dual specificity phosphatase 21

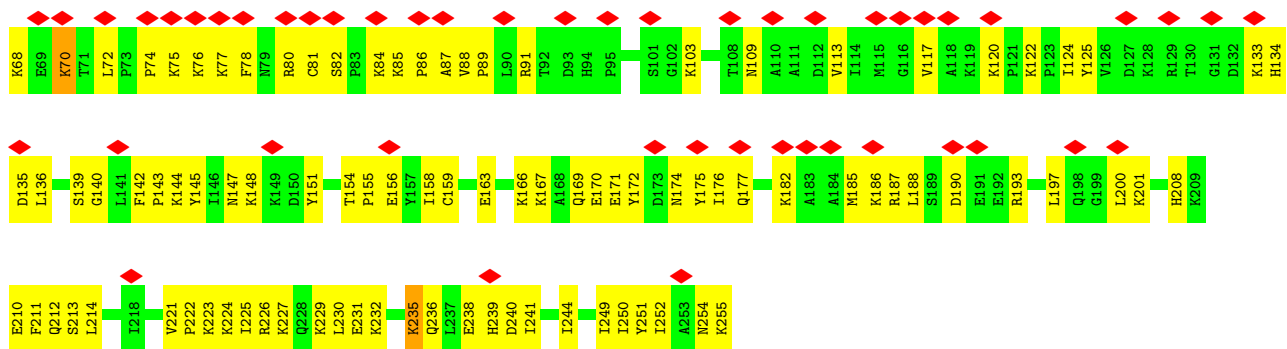


• Molecule 14: Coiled-coil domain-containing protein 105

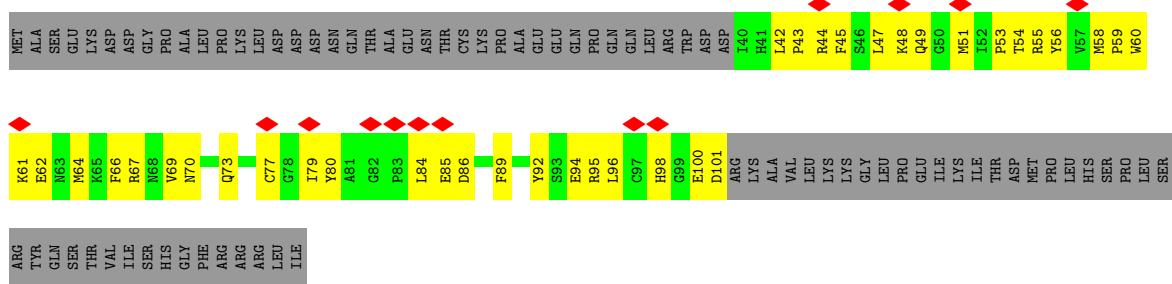




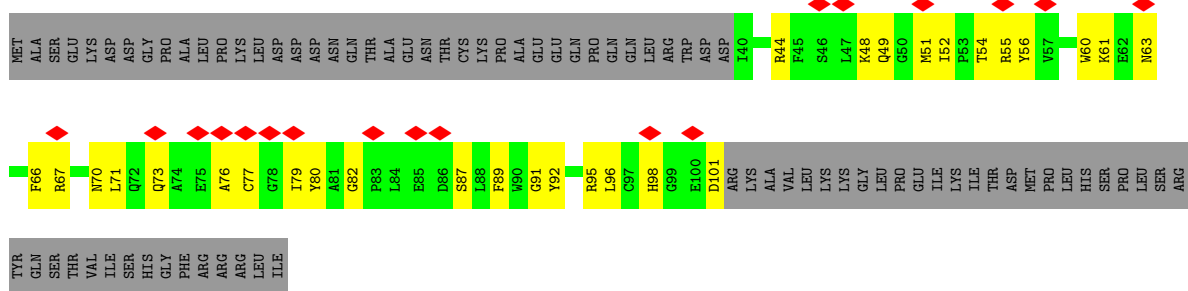




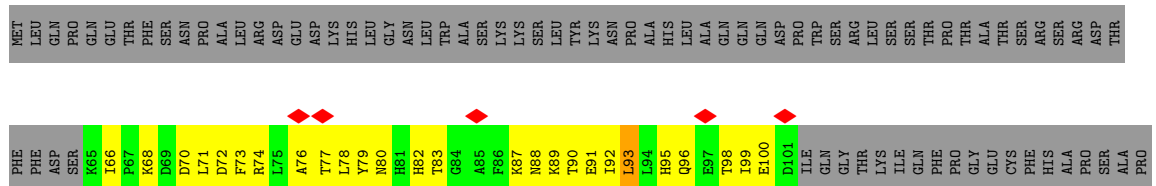
• Molecule 16: Testis-expressed protein 43



• Molecule 16: Testis-expressed protein 43

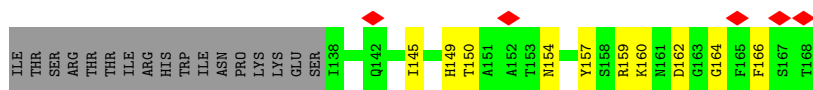
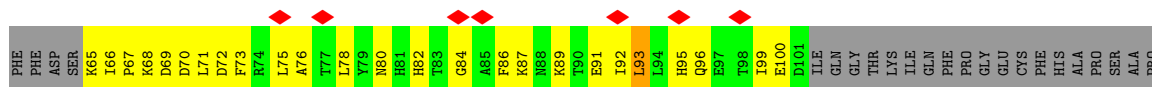
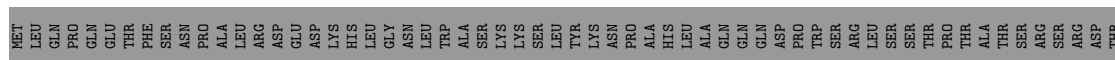


• Molecule 17: Cilia- and flagella-associated protein 276

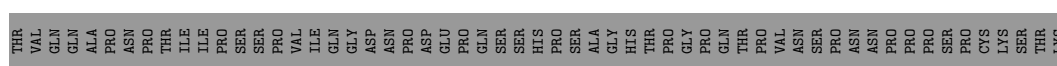
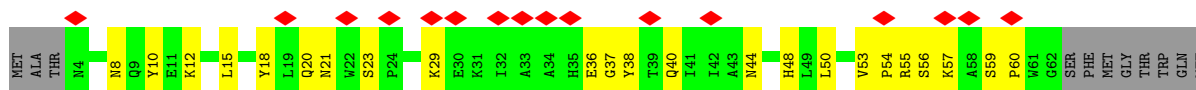
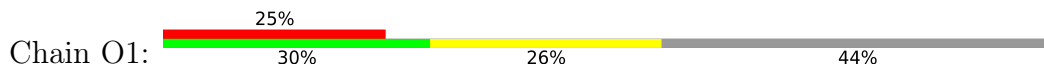




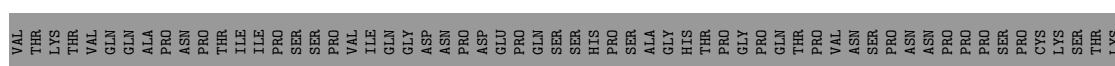
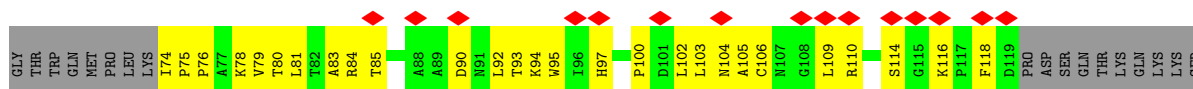
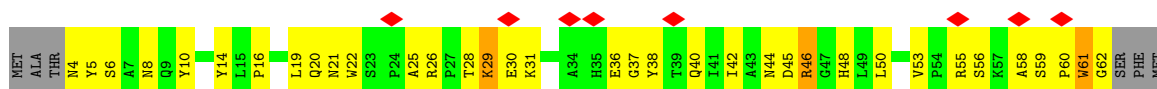
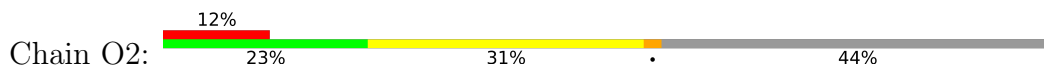
• Molecule 17: Cilia- and flagella-associated protein 276



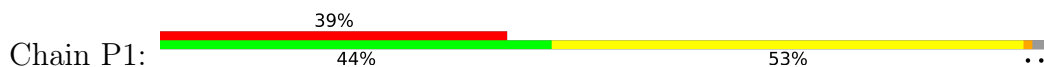
• Molecule 18: Protein Flattop

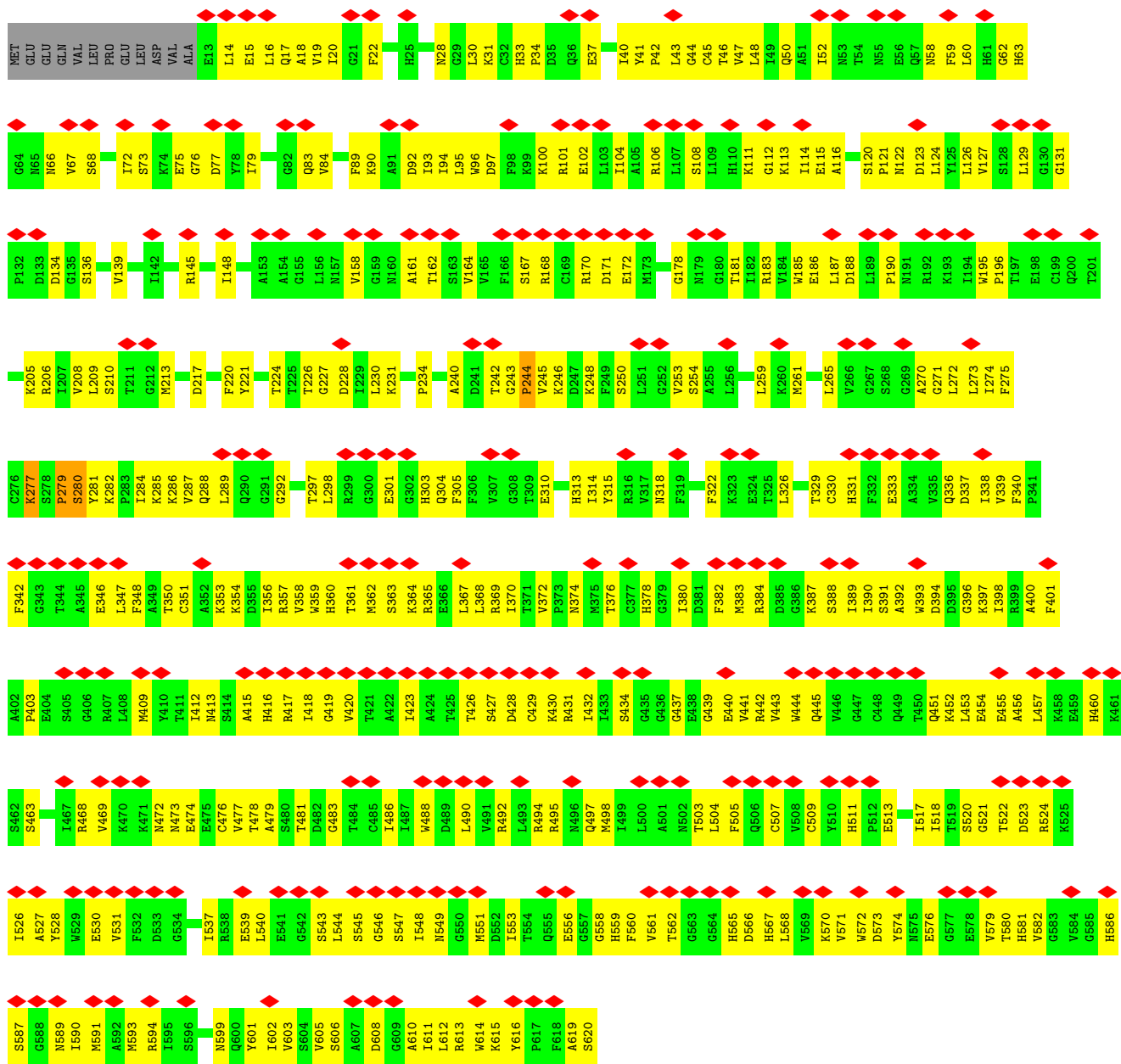


• Molecule 18: Protein Flattop

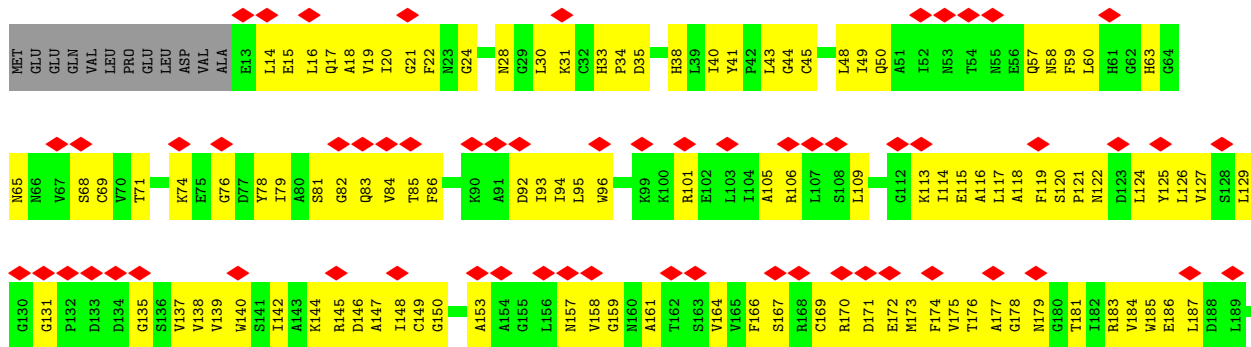


• Molecule 19: Cilia- and flagella-associated protein 52





● Molecule 19: Cilia- and flagella-associated protein 52

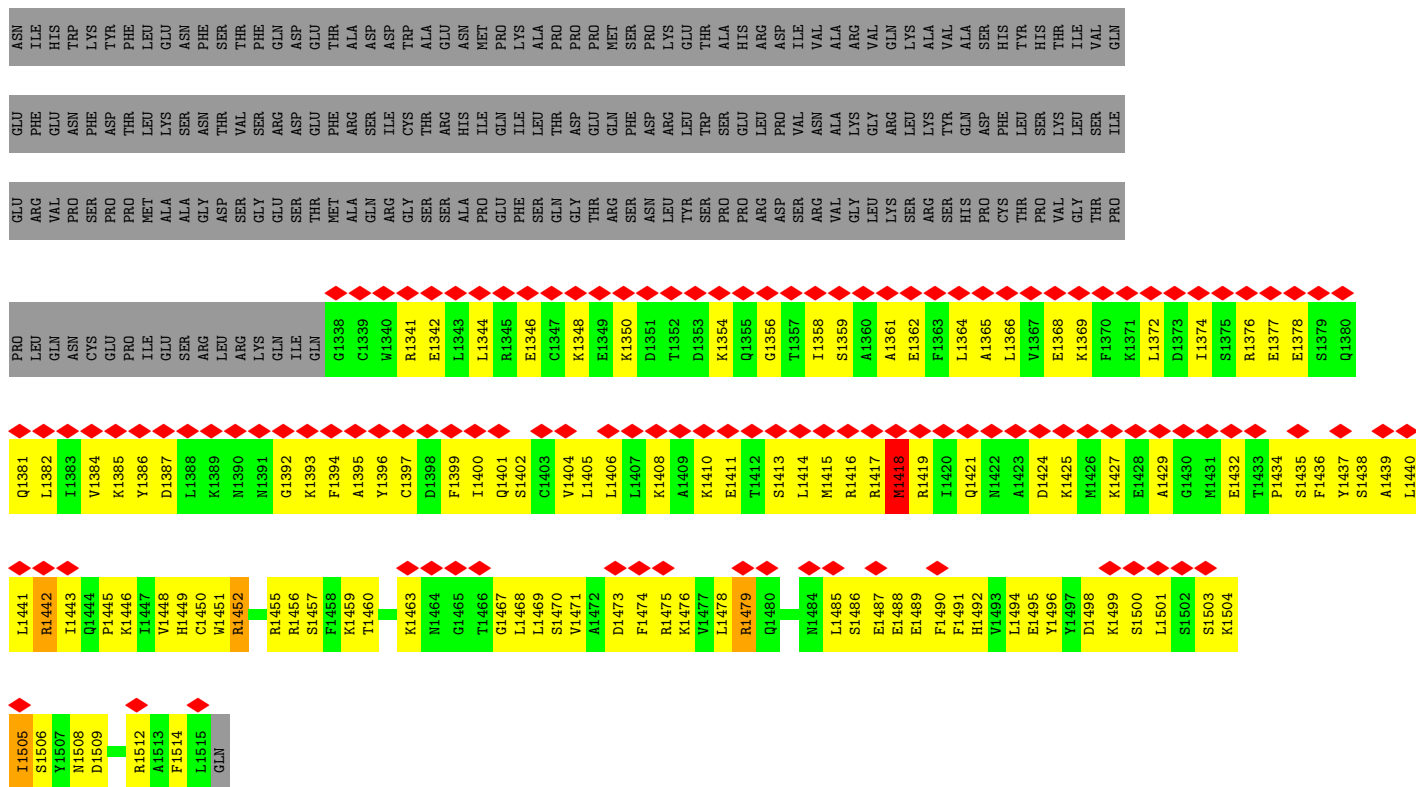




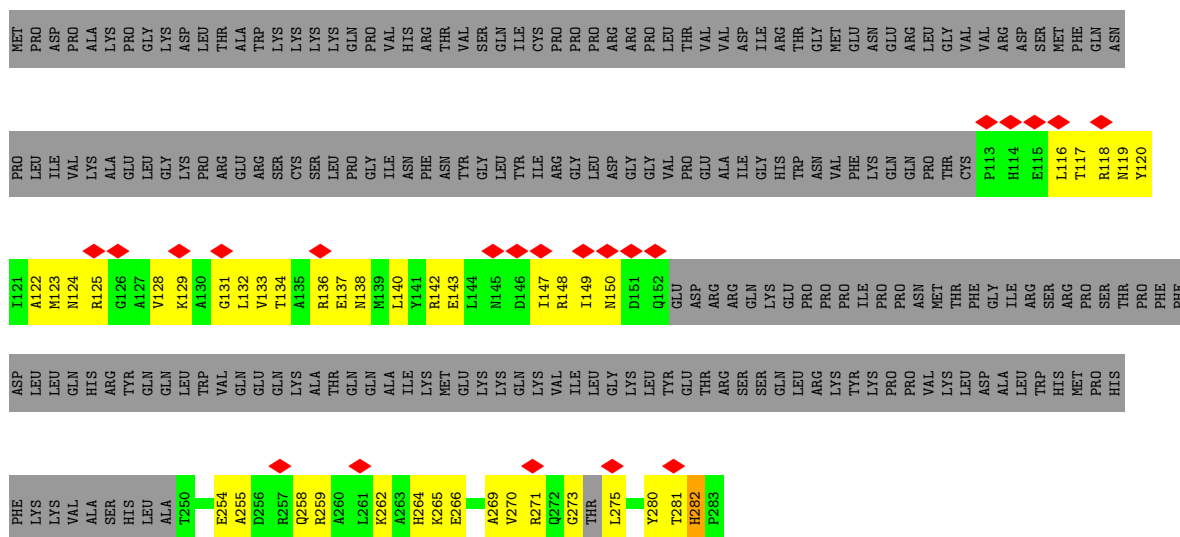






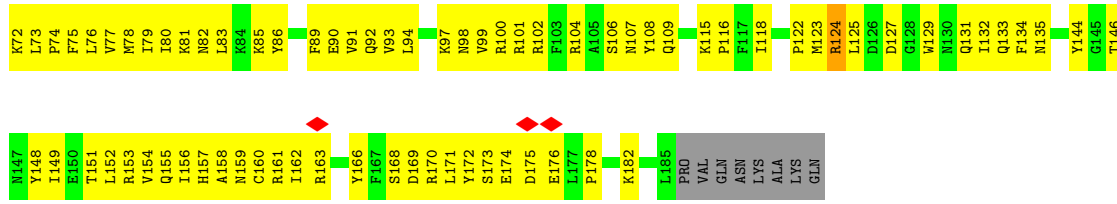


• Molecule 21: Cilia and flagella-associated protein 77

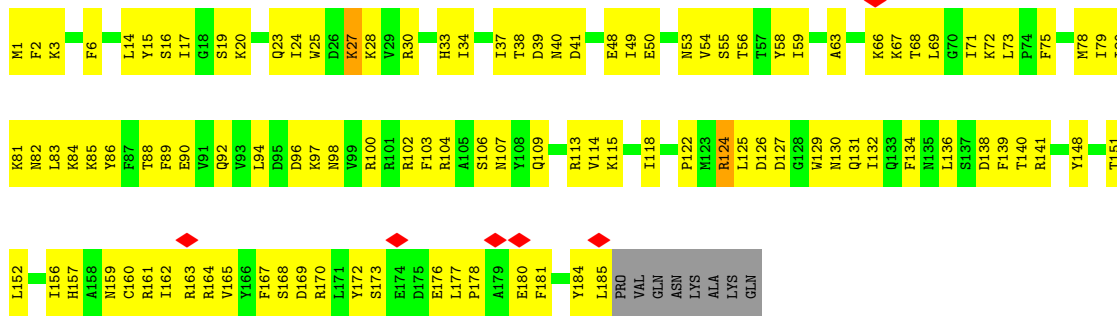


• Molecule 22: Cilia- and flagella-associated protein 20

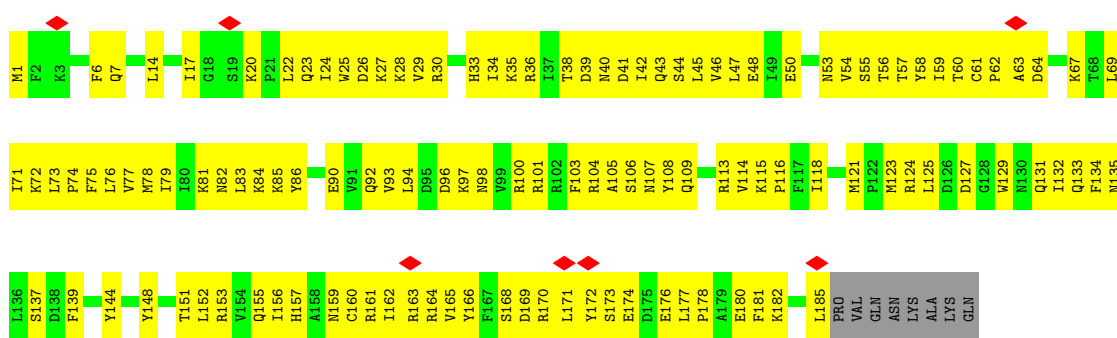




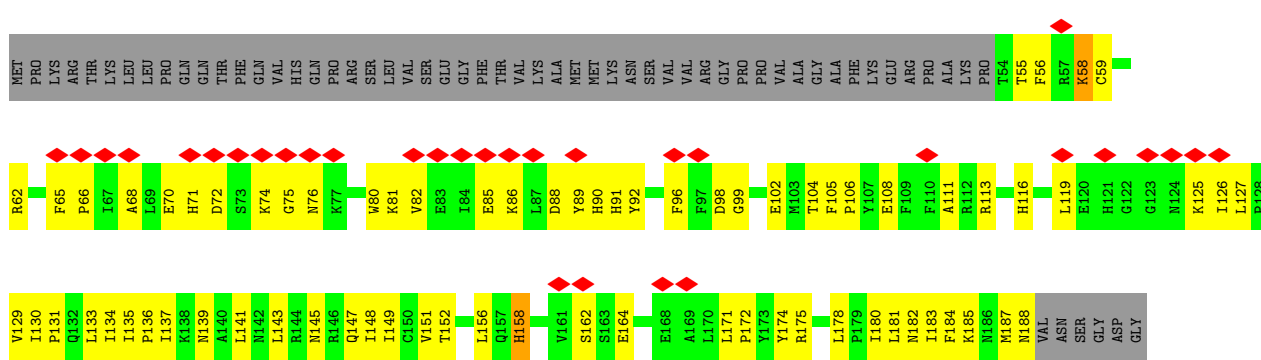
● Molecule 22: Cilia- and flagella-associated protein 20

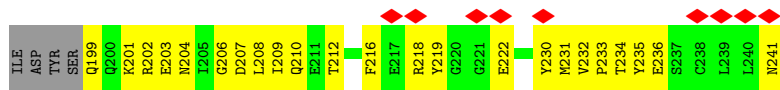


● Molecule 22: Cilia- and flagella-associated protein 20

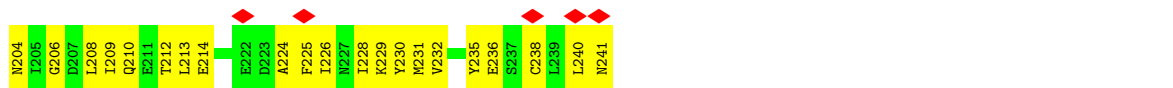
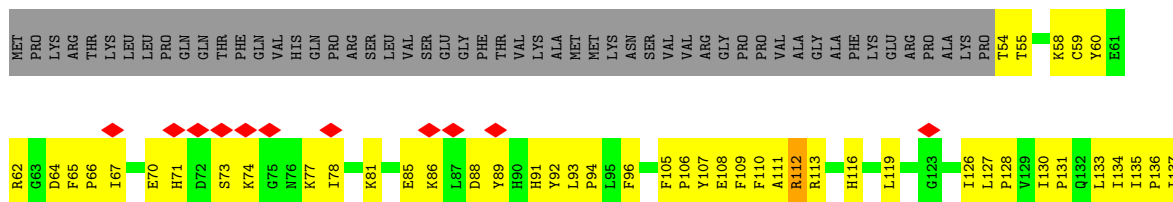


● Molecule 23: Parkin coregulated gene protein homolog

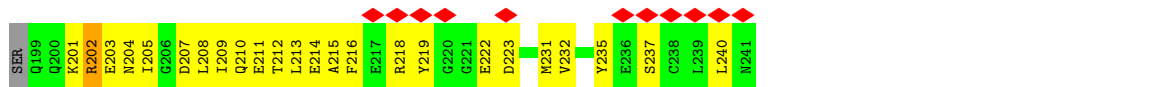
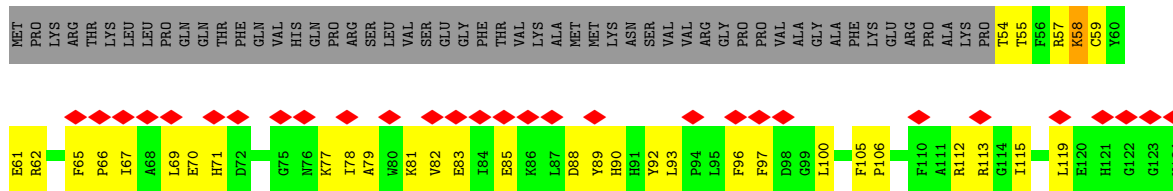




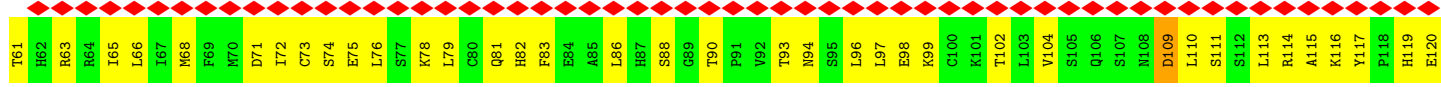
• Molecule 23: Parkin coregulated gene protein homolog



• Molecule 23: Parkin coregulated gene protein homolog

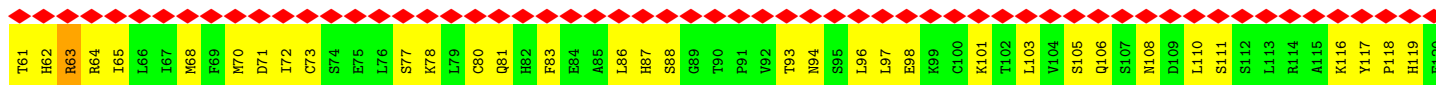
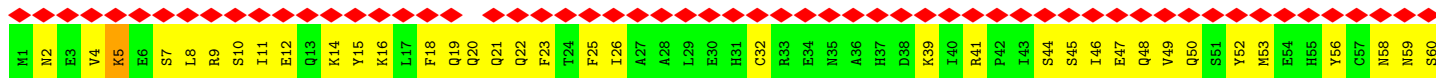
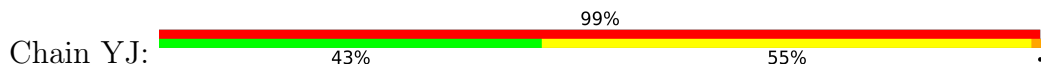


• Molecule 24: Sperm acrosome-associated protein 9

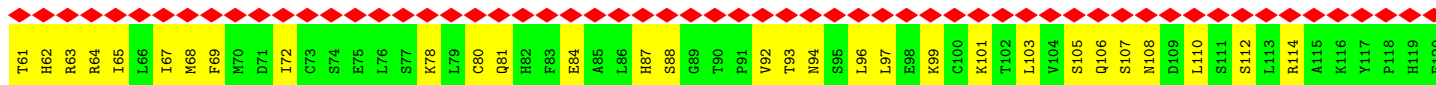




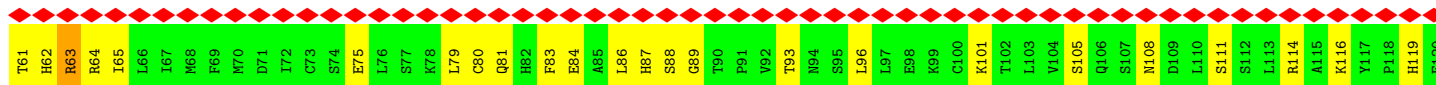
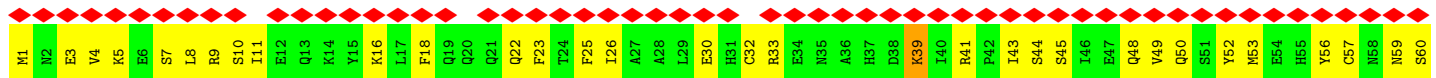
• Molecule 24: Sperm acrosome-associated protein 9



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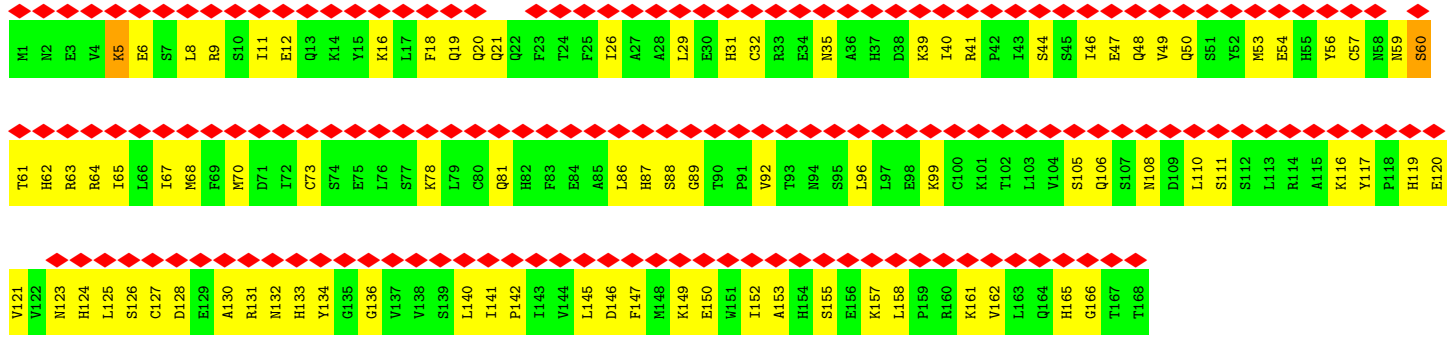


• Molecule 24: Sperm acrosome-associated protein 9

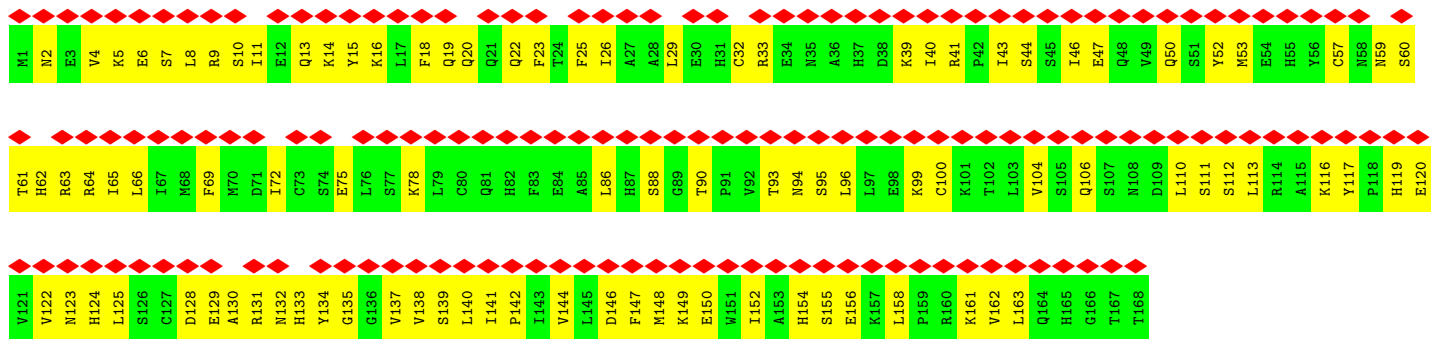


• Molecule 24: Sperm acrosome-associated protein 9





• Molecule 24: Sperm acrosome-associated protein 9



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	37018	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	117	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.014	Depositor
Minimum map value	-0.003	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.004	Depositor
Map size (Å)	563.2, 563.2, 563.2	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.76, 1.76, 1.76	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

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	A2	0.34	0/2914	0.60	0/3926
1	A3	0.36	0/1767	0.60	1/2381 (0.0%)
2	AE	0.33	0/3496	0.58	0/4747
2	AG	0.34	0/3496	0.60	0/4747
2	AI	0.33	0/3496	0.60	0/4747
2	BE	0.31	0/3496	0.58	0/4747
2	BG	0.32	0/3496	0.59	1/4747 (0.0%)
2	BI	0.31	0/3496	0.57	0/4747
2	CG	0.32	0/3496	0.60	1/4747 (0.0%)
2	CI	0.33	0/3496	0.62	3/4747 (0.1%)
2	DE	0.35	1/3496 (0.0%)	0.68	5/4747 (0.1%)
2	DG	0.31	0/3496	0.59	2/4747 (0.0%)
2	EE	0.32	0/3496	0.62	2/4747 (0.0%)
2	EG	0.32	0/3496	0.61	3/4747 (0.1%)
2	FE	0.32	0/3496	0.60	2/4747 (0.0%)
2	FG	0.33	0/3496	0.63	3/4747 (0.1%)
2	GE	0.45	5/3496 (0.1%)	0.64	3/4747 (0.1%)
2	GG	0.32	0/3496	0.60	1/4747 (0.0%)
2	GI	0.32	0/3496	0.62	3/4747 (0.1%)
2	HE	0.30	0/3496	0.57	0/4747
2	HG	0.32	0/3496	0.59	0/4747
2	HI	0.30	0/3496	0.58	0/4747
2	IE	0.30	0/3496	0.56	0/4747
2	IG	0.31	0/3496	0.58	0/4747
2	II	0.30	0/3496	0.57	0/4747
2	JE	0.31	0/3496	0.57	0/4747
2	JG	0.31	0/3496	0.58	0/4747
2	KE	0.31	0/3496	0.59	1/4747 (0.0%)
2	KG	0.34	0/3496	0.61	1/4747 (0.0%)
2	KI	0.32	0/3496	0.60	0/4747
2	LE	0.32	0/3496	0.59	0/4747
2	LG	0.33	0/3496	0.59	0/4747



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
2	LI	0.33	0/3496	0.58	0/4747
2	ME	0.31	0/3496	0.57	0/4747
2	MG	0.37	1/3496 (0.0%)	0.64	3/4747 (0.1%)
2	MI	0.33	0/3496	0.58	1/4747 (0.0%)
2	NE	0.29	0/3496	0.57	1/4747 (0.0%)
2	NG	0.29	0/3496	0.55	0/4747
2	NI	0.28	0/3496	0.58	0/4747
2	OE	0.29	0/3496	0.58	1/4747 (0.0%)
2	OG	0.28	0/3496	0.57	1/4747 (0.0%)
2	OI	0.29	0/3496	0.56	0/4747
2	PE	0.30	0/3496	0.57	2/4747 (0.0%)
2	PG	0.37	1/3496 (0.0%)	0.66	4/4747 (0.1%)
2	PI	0.31	0/3496	0.60	3/4747 (0.1%)
2	QE	0.30	0/3496	0.59	3/4747 (0.1%)
2	QG	0.29	0/3496	0.58	0/4747
2	QI	0.29	0/3496	0.57	0/4747
2	RE	0.29	0/3496	0.57	0/4747
2	RG	0.29	0/3496	0.56	0/4747
2	RI	0.29	0/3496	0.59	1/4747 (0.0%)
2	SE	0.28	0/3496	0.55	0/4747
2	SG	0.30	0/3496	0.59	2/4747 (0.0%)
2	SI	0.30	0/3496	0.58	0/4747
2	TG	0.28	0/3496	0.55	0/4747
2	TI	0.29	0/3496	0.55	0/4747
2	UE	0.29	0/3496	0.58	1/4747 (0.0%)
2	UG	0.31	1/3496 (0.0%)	0.59	2/4747 (0.0%)
2	VE	0.30	0/3496	0.56	0/4747
2	VG	0.30	0/3496	0.58	0/4747
2	WE	0.32	0/3496	0.58	0/4747
2	WG	0.32	1/3496 (0.0%)	0.60	2/4747 (0.0%)
2	WI	0.30	0/3496	0.60	1/4747 (0.0%)
3	AF	0.33	0/3431	0.62	2/4649 (0.0%)
3	AH	0.33	0/3431	0.59	0/4649
3	BF	0.31	0/3431	0.57	0/4649
3	BH	0.32	0/3431	0.59	0/4649
3	CF	0.30	0/3431	0.60	0/4649
3	CH	0.32	0/3431	0.60	0/4649
3	CJ	0.32	0/3431	0.65	3/4649 (0.1%)
3	DD	0.31	0/3431	0.58	0/4649
3	DF	0.31	0/3431	0.58	0/4649
3	DH	0.30	0/3431	0.58	0/4649
3	ED	0.31	0/3431	0.60	0/4649
3	EF	0.31	0/3431	0.61	1/4649 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
3	EH	0.30	0/3431	0.57	0/4649
3	FD	0.30	0/3431	0.60	1/4649 (0.0%)
3	FF	0.31	0/3431	0.58	0/4649
3	FH	0.31	0/3431	0.58	0/4649
3	GD	0.32	0/3431	0.60	0/4649
3	GF	0.31	0/3431	0.60	0/4649
3	GH	0.32	0/3431	0.60	3/4649 (0.1%)
3	HD	0.29	0/3431	0.57	0/4649
3	HF	0.33	0/3431	0.61	1/4649 (0.0%)
3	HH	0.30	0/3431	0.57	0/4649
3	IF	0.32	0/3431	0.57	0/4649
3	IH	0.30	0/3431	0.58	0/4649
3	JD	0.31	0/3431	0.62	3/4649 (0.1%)
3	JF	0.31	0/3431	0.58	0/4649
3	JH	0.31	0/3431	0.60	2/4649 (0.0%)
3	KD	0.32	0/3431	0.58	0/4649
3	KF	0.32	0/3431	0.60	1/4649 (0.0%)
3	KH	0.31	0/3431	0.58	0/4649
3	LD	0.34	0/3431	0.64	2/4649 (0.0%)
3	LF	0.33	0/3431	0.63	2/4649 (0.0%)
3	LH	0.33	0/3431	0.63	3/4649 (0.1%)
3	MF	0.33	0/3431	0.58	1/4649 (0.0%)
3	MH	0.35	0/3431	0.60	1/4649 (0.0%)
3	ND	0.29	0/3431	0.57	0/4649
3	NF	0.29	0/3431	0.57	0/4649
3	NH	0.29	0/3431	0.60	1/4649 (0.0%)
3	OD	0.28	0/3431	0.54	0/4649
3	OF	0.30	0/3431	0.59	1/4649 (0.0%)
3	OH	0.29	0/3431	0.58	1/4649 (0.0%)
3	PF	0.29	0/3431	0.57	1/4649 (0.0%)
3	PH	0.28	0/3431	0.56	0/4649
3	QF	0.29	0/3431	0.57	0/4649
3	QH	0.29	0/3431	0.57	1/4649 (0.0%)
3	RF	0.30	0/3431	0.58	0/4649
3	RH	0.29	0/3431	0.57	0/4649
3	RJ	0.31	0/3431	0.57	1/4649 (0.0%)
3	SF	0.29	0/3431	0.59	1/4649 (0.0%)
3	SH	0.29	0/3431	0.58	0/4649
3	SJ	0.29	0/3431	0.58	0/4649
3	TF	0.29	0/3431	0.56	0/4649
3	TH	0.29	0/3431	0.57	1/4649 (0.0%)
3	TJ	0.29	0/3431	0.57	0/4649
3	UD	0.28	0/3431	0.58	1/4649 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
3	UF	0.29	0/3431	0.58	0/4649
3	UH	0.29	0/3431	0.56	0/4649
3	VD	0.30	0/3431	0.56	0/4649
3	VF	0.30	0/3431	0.59	0/4649
3	VH	0.30	0/3431	0.57	0/4649
3	WF	0.30	0/3431	0.58	0/4649
3	WH	0.29	0/3431	0.56	0/4649
4	B2	0.35	0/2053	0.61	1/2761 (0.0%)
4	B3	0.35	0/2850	0.62	0/3845
4	B7	0.33	0/3116	0.60	0/4198
4	B8	0.36	0/1475	0.65	0/1978
5	C2	0.33	0/1194	0.63	0/1609
5	C3	0.35	0/3011	0.63	0/4052
5	C4	0.39	0/674	0.76	2/904 (0.2%)
5	C7	0.36	0/2010	0.63	0/2708
5	C8	0.38	0/2561	0.66	0/3447
5	Cb	0.35	0/2143	0.62	0/2878
5	Cc	0.34	0/2188	0.60	0/2949
6	D2	0.34	0/596	0.59	0/802
6	D3	0.35	0/3270	0.59	0/4400
6	D4	0.34	0/1090	0.60	0/1460
6	D7	0.35	0/843	0.67	0/1129
6	D8	0.35	0/3234	0.61	1/4352 (0.0%)
6	D9	0.35	0/866	0.63	0/1166
7	E2	0.31	0/1613	0.66	0/2194
7	E3	0.41	0/540	0.74	2/736 (0.3%)
8	F2	0.33	0/2671	0.63	0/3591
8	F3	0.35	0/1956	0.66	0/2629
8	F6	0.31	0/2537	0.57	0/3406
8	F7	0.33	0/2021	0.65	0/2714
8	Fa	0.31	0/1763	0.62	0/2370
8	Fb	0.30	0/2669	0.58	0/3584
8	Fc	0.27	0/229	0.57	0/310
8	F1	0.29	0/2751	0.61	0/3693
9	G1	0.31	0/4309	0.58	1/5839 (0.0%)
9	G2	0.30	0/4192	0.55	1/5678 (0.0%)
10	G5	0.32	0/6339	0.58	0/8570
11	H3	0.32	0/1219	0.70	1/1649 (0.1%)
11	H4	0.35	0/1154	0.66	0/1560
12	I2	0.41	0/306	0.64	0/413
12	I3	0.32	0/306	0.54	0/413
13	J2	0.31	0/1413	0.59	0/1923
13	J3	0.31	0/1413	0.60	0/1923

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
14	K2	0.30	0/1749	0.63	0/2347
14	K3	0.30	0/3523	0.64	1/4741 (0.0%)
14	K4	0.28	0/1355	0.65	0/1833
15	L2	0.30	0/1970	0.60	1/2636 (0.0%)
15	L3	0.30	0/1970	0.60	0/2636
16	M2	0.33	0/525	0.67	1/708 (0.1%)
16	M3	0.28	0/525	0.56	0/708
17	N2	0.30	0/546	0.62	1/734 (0.1%)
17	N3	0.29	0/546	0.62	1/734 (0.1%)
18	O1	0.28	0/849	0.57	0/1160
18	O2	0.31	0/849	0.65	0/1160
19	P1	0.28	0/4793	0.58	0/6480
19	P2	0.30	0/4793	0.60	0/6480
20	Q1	0.29	0/1500	0.61	0/2007
20	Q2	0.29	0/1500	0.65	0/2007
21	R2	0.28	0/605	0.67	0/810
22	XC	0.29	0/1573	0.59	0/2122
22	XD	0.32	0/1573	0.60	0/2122
22	XE	0.31	0/1573	0.63	0/2122
23	XJ	0.30	0/1503	0.58	0/2028
23	XK	0.30	0/1503	0.58	0/2028
23	XL	0.30	0/1503	0.57	0/2028
24	YI	0.29	0/1393	0.65	1/1876 (0.1%)
24	YJ	0.29	0/1393	0.59	0/1876
24	YK	0.28	0/1393	0.58	0/1876
24	YL	0.28	0/1393	0.55	0/1876
24	YM	0.26	0/1393	0.56	0/1876
24	YN	0.29	0/1393	0.58	0/1876
All	All	0.31	10/548418 (0.0%)	0.59	110/742832 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	CI	0	1
2	DG	0	2
2	EE	0	2
2	EG	0	2
2	FG	0	3
2	GE	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	GG	0	1
2	LI	0	2
2	PG	0	1
2	UG	0	1
3	AH	0	2
3	BF	0	1
3	BH	0	1
3	CF	0	2
3	CJ	0	2
3	DD	0	1
3	DF	0	1
3	DH	0	1
3	ED	0	2
3	FD	0	2
3	FF	0	2
3	FH	0	2
3	GF	0	2
3	HD	0	1
3	IH	0	1
3	JD	0	1
3	JH	0	1
3	KD	0	1
3	KF	0	1
3	KH	0	1
3	LD	0	2
3	LF	0	1
3	LH	0	1
3	MF	0	1
3	MH	0	1
3	ND	0	1
3	NH	0	1
3	OF	0	1
3	PF	0	1
3	PH	0	1
3	QF	0	1
3	QH	0	1
3	RF	0	1
3	SH	0	2
3	SJ	0	1
3	UD	0	1
3	UF	0	1
3	VD	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	VH	0	1
3	WF	0	1
3	WH	0	1
5	C4	0	1
7	E2	0	1
8	F3	0	1
10	G5	0	5
13	J3	0	1
14	K3	0	2
19	P1	0	1
All	All	0	81

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	PG	32	PRO	CG-CD	-13.10	1.07	1.50
2	GE	224	TYR	CB-CG	-10.84	1.35	1.51
2	GE	224	TYR	CE1-CZ	-10.23	1.25	1.38
2	GE	224	TYR	CE2-CZ	8.96	1.50	1.38
2	DE	224	TYR	CD2-CE2	-7.18	1.28	1.39
2	MG	224	TYR	CD2-CE2	-6.58	1.29	1.39
2	UG	171	ILE	C-N	5.73	1.47	1.34
2	GE	224	TYR	CD2-CE2	-5.24	1.31	1.39
2	WG	224	TYR	CD2-CE2	-5.20	1.31	1.39
2	GE	224	TYR	CG-CD2	-5.18	1.32	1.39

All (110) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	PG	32	PRO	N-CD-CG	-17.36	77.15	103.20
3	CJ	15	GLN	CA-CB-CG	14.99	146.38	113.40
2	DE	224	TYR	CB-CG-CD2	-12.33	113.60	121.00
2	DE	224	TYR	CB-CG-CD1	11.86	128.11	121.00
2	PG	32	PRO	CA-CB-CG	-11.22	82.69	104.00
3	JD	15	GLN	CA-CB-CG	10.02	135.45	113.40
2	KG	15	GLN	CA-CB-CG	9.48	134.27	113.40
2	PI	171	ILE	C-N-CA	-8.56	100.30	121.70
2	FG	15	GLN	CA-CB-CG	8.41	131.90	113.40
2	MG	224	TYR	CB-CG-CD1	8.26	125.95	121.00
2	GI	15	GLN	CA-CB-CG	8.23	131.51	113.40
2	MG	224	TYR	CB-CG-CD2	-8.09	116.14	121.00
2	FG	15	GLN	N-CA-CB	-8.03	96.14	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	LH	252	LYS	CB-CG-CD	8.03	132.47	111.60
2	FE	15	GLN	CA-CB-CG	7.86	130.69	113.40
2	CG	15	GLN	CA-CB-CG	7.85	130.67	113.40
2	DG	11	GLN	CA-CB-CG	7.84	130.65	113.40
2	UG	203	MET	CB-CG-SD	-7.77	89.08	112.40
2	DE	9	VAL	C-N-CA	-7.61	106.33	122.30
2	FG	11	GLN	CA-CB-CG	7.57	130.06	113.40
7	E3	86	PRO	N-CD-CG	-7.31	92.23	103.20
2	PI	224	TYR	CB-CG-CD1	7.29	125.37	121.00
3	LF	266	PHE	C-N-CA	7.25	139.83	121.70
2	GI	15	GLN	CB-CA-C	-7.08	96.25	110.40
7	E3	86	PRO	CA-N-CD	-7.08	101.59	111.50
3	LH	252	LYS	CA-CB-CG	7.08	128.97	113.40
2	EG	15	GLN	CA-CB-CG	6.96	128.72	113.40
2	QE	224	TYR	CB-CG-CD2	-6.95	116.83	121.00
2	WG	224	TYR	CB-CG-CD2	-6.91	116.85	121.00
2	CI	11	GLN	CA-CB-CG	6.90	128.58	113.40
9	G1	427	GLU	C-N-CA	-6.88	104.50	121.70
2	PI	224	TYR	CB-CG-CD2	-6.79	116.92	121.00
2	QE	224	TYR	CB-CG-CD1	6.79	125.08	121.00
2	EG	11	GLN	CA-CB-CG	6.78	128.32	113.40
3	HF	15	GLN	N-CA-CB	-6.76	98.43	110.60
3	AF	15	GLN	CA-CB-CG	6.74	128.23	113.40
3	AF	252	LYS	CD-CE-NZ	6.68	127.07	111.70
2	MI	87	PHE	C-N-CA	6.61	138.22	121.70
2	GE	224	TYR	CD1-CE1-CZ	-6.47	113.98	119.80
2	EE	227	LEU	CA-CB-CG	6.46	130.17	115.30
5	C4	377	MET	CB-CG-SD	-6.42	93.15	112.40
2	FE	15	GLN	N-CA-CB	-6.37	99.13	110.60
2	WG	224	TYR	CB-CG-CD1	6.18	124.71	121.00
3	LD	323	MET	CB-CG-SD	-6.13	94.01	112.40
2	PE	224	TYR	CB-CG-CD2	-6.10	117.34	121.00
3	OH	241	ARG	C-N-CA	-5.96	106.80	121.70
2	DG	11	GLN	N-CA-CB	-5.94	99.92	110.60
3	SF	252	LYS	CA-CB-CG	5.90	126.38	113.40
3	CJ	15	GLN	N-CA-CB	5.85	121.13	110.60
2	PE	224	TYR	CB-CG-CD1	5.80	124.48	121.00
3	PF	252	LYS	CA-CB-CG	5.75	126.06	113.40
2	GG	15	GLN	CA-CB-CG	5.75	126.05	113.40
3	JD	15	GLN	CB-CA-C	-5.74	98.92	110.40
2	DE	224	TYR	CE1-CZ-OH	5.72	135.54	120.10
3	UD	85	PHE	C-N-CA	-5.63	107.64	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C4	411	LEU	CA-CB-CG	5.62	128.22	115.30
3	LD	267	MET	CB-CG-SD	5.62	129.25	112.40
3	LF	323	MET	CG-SD-CE	-5.61	91.23	100.20
3	MF	85	PHE	C-N-CA	-5.55	107.83	121.70
2	OG	132	LEU	CA-CB-CG	5.53	128.02	115.30
2	RI	397	LEU	CA-CB-CG	5.53	128.01	115.30
3	JH	15	GLN	CA-CB-CG	5.52	125.53	113.40
3	JH	241	ARG	C-N-CA	-5.49	107.98	121.70
24	YI	109	ASP	CB-CG-OD1	5.49	123.24	118.30
2	DE	224	TYR	OH-CZ-CE2	-5.47	105.32	120.10
3	EF	85	PHE	C-N-CA	-5.46	108.04	121.70
15	L2	72	LEU	CA-CB-CG	5.46	127.86	115.30
2	EE	132	LEU	CA-CB-CG	5.46	127.85	115.30
3	CJ	15	GLN	CB-CA-C	-5.43	99.54	110.40
3	QH	395	LEU	CA-CB-CG	5.43	127.78	115.30
1	A3	241	LEU	CB-CG-CD1	-5.40	101.81	111.00
3	MH	415	MET	CB-CG-SD	-5.38	96.27	112.40
2	SG	224	TYR	CB-CG-CD1	5.37	124.22	121.00
6	D8	368	LEU	CA-CB-CG	5.36	127.64	115.30
2	UG	171	ILE	C-N-CA	-5.35	108.32	121.70
3	NH	252	LYS	CB-CG-CD	5.35	125.50	111.60
3	GH	252	LYS	CB-CG-CD	5.34	125.49	111.60
2	UE	224	TYR	CA-CB-CG	5.33	123.53	113.40
2	GE	87	PHE	C-N-CA	5.31	134.97	121.70
2	GI	132	LEU	CA-CB-CG	5.30	127.50	115.30
2	SG	224	TYR	CB-CG-CD2	-5.29	117.83	121.00
3	LH	85	PHE	C-N-CA	-5.28	108.50	121.70
2	GE	224	TYR	CB-CA-C	-5.28	99.84	110.40
3	JD	14	ASN	C-N-CA	-5.26	108.55	121.70
17	N2	93	LEU	CA-CB-CG	5.26	127.39	115.30
2	MG	15	GLN	CA-CB-CG	5.24	124.92	113.40
14	K3	109	LEU	CA-CB-CG	5.22	127.32	115.30
3	GH	252	LYS	CD-CE-NZ	5.22	123.70	111.70
17	N3	93	LEU	CA-CB-CG	5.21	127.30	115.30
2	PG	132	LEU	CA-CB-CG	5.21	127.28	115.30
3	TH	395	LEU	CA-CB-CG	5.20	127.25	115.30
2	KE	132	LEU	CA-CB-CG	5.19	127.24	115.30
3	RJ	395	LEU	CA-CB-CG	5.16	127.16	115.30
11	H3	292	MET	CA-CB-CG	5.15	122.06	113.30
2	BG	224	TYR	CB-CG-CD2	-5.14	117.92	121.00
2	WI	428	LEU	CA-CB-CG	5.12	127.07	115.30
2	EG	15	GLN	CB-CA-C	-5.11	100.18	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B2	304	LEU	CA-CB-CG	5.10	127.03	115.30
2	PG	32	PRO	N-CA-CB	-5.10	96.99	102.60
9	G2	41	ARG	C-N-CA	5.09	134.42	121.70
2	NE	11	GLN	CA-CB-CG	5.08	124.57	113.40
3	OF	252	LYS	CA-CB-CG	5.07	124.56	113.40
16	M2	58	MET	CA-CB-CG	5.07	121.91	113.30
2	QE	367	ASP	CB-CG-OD1	5.06	122.85	118.30
2	CI	11	GLN	CB-CG-CD	5.05	124.74	111.60
2	CI	428	LEU	CA-CB-CG	5.04	126.88	115.30
3	GH	252	LYS	CA-CB-CG	5.02	124.45	113.40
3	FD	85	PHE	C-N-CA	-5.02	109.15	121.70
3	KF	267	MET	CB-CG-SD	5.02	127.45	112.40
2	OE	132	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (81) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	AH	130	LEU	Peptide
3	AH	271	ALA	Peptide
3	BF	271	ALA	Peptide
3	BH	271	ALA	Peptide
5	C4	419	ARG	Sidechain
3	CF	130	LEU	Peptide
3	CF	271	ALA	Peptide
2	CI	10	GLY	Peptide
3	CJ	15	GLN	Sidechain
3	CJ	271	ALA	Peptide
3	DD	271	ALA	Peptide
3	DF	271	ALA	Peptide
2	DG	10	GLY	Peptide
2	DG	11	GLN	Sidechain
3	DH	130	LEU	Peptide
7	E2	13	VAL	Peptide
3	ED	15	GLN	Sidechain
3	ED	271	ALA	Peptide
2	EE	145	THR	Peptide
2	EE	224	TYR	Peptide
2	EG	11	GLN	Sidechain
2	EG	15	GLN	Sidechain
8	F3	89	ARG	Sidechain
3	FD	270	PHE	Peptide

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Mol	Chain	Res	Type	Group
3	FD	271	ALA	Peptide
3	FF	130	LEU	Peptide
3	FF	271	ALA	Peptide
2	FG	11	GLN	Sidechain
2	FG	14	VAL	Peptide
2	FG	15	GLN	Sidechain
3	FH	271	ALA	Peptide
3	FH	404	ASP	Peptide
10	G5	140	PRO	Peptide
10	G5	716	LYS	Peptide
10	G5	726	SER	Peptide
10	G5	734	ARG	Sidechain
10	G5	735	TYR	Peptide
2	GE	11	GLN	Peptide
2	GE	222	PRO	Peptide
3	GF	130	LEU	Peptide
3	GF	271	ALA	Peptide
2	GG	90	GLU	Peptide
3	HD	271	ALA	Peptide
3	IH	271	ALA	Peptide
13	J3	165	VAL	Peptide
3	JD	15	GLN	Sidechain
3	JH	271	ALA	Peptide
14	K3	187	LYS	Peptide
14	K3	484	TRP	Peptide
3	KD	271	ALA	Peptide
3	KF	271	ALA	Peptide
3	KH	247	ASN	Peptide
3	LD	245	GLN	Peptide
3	LD	271	ALA	Peptide
3	LF	271	ALA	Peptide
3	LH	271	ALA	Peptide
2	LI	264	ARG	Peptide
2	LI	414	GLU	Peptide
3	MF	271	ALA	Peptide
3	MH	266	PHE	Peptide
3	ND	271	ALA	Peptide
3	NH	271	ALA	Peptide
3	OF	271	ALA	Peptide
19	P1	243	GLY	Peptide
3	PF	271	ALA	Peptide
2	PG	411	GLU	Peptide

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Mol	Chain	Res	Type	Group
3	PH	271	ALA	Peptide
3	QF	271	ALA	Peptide
3	QH	271	ALA	Peptide
3	RF	271	ALA	Peptide
3	SH	130	LEU	Peptide
3	SH	271	ALA	Peptide
3	SJ	130	LEU	Peptide
3	UD	271	ALA	Peptide
3	UF	262	ARG	Sidechain
2	UG	202	PHE	Peptide
3	VD	130	LEU	Peptide
3	VD	271	ALA	Peptide
3	VH	271	ALA	Peptide
3	WF	271	ALA	Peptide
3	WH	271	ALA	Peptide

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A2	2884	0	2918	141	0
1	A3	1745	0	1736	89	0
2	AE	3418	0	3327	219	0
2	AG	3418	0	3328	227	0
2	AI	3418	0	3329	255	0
2	BE	3418	0	3327	174	0
2	BG	3418	0	3328	213	0
2	BI	3418	0	3328	189	0
2	CG	3418	0	3329	200	0
2	CI	3418	0	3329	205	0
2	DE	3418	0	3328	217	0
2	DG	3418	0	3329	199	0
2	EE	3418	0	3329	192	0
2	EG	3418	0	3329	199	0
2	FE	3418	0	3328	193	0
2	FG	3418	0	3329	189	0
2	GE	3418	0	3328	203	0
2	GG	3418	0	3328	200	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	GI	3418	0	3328	165	0
2	HE	3418	0	3327	197	0
2	HG	3418	0	3329	193	0
2	HI	3418	0	3329	164	0
2	IE	3418	0	3328	154	0
2	IG	3418	0	3328	179	0
2	II	3418	0	3328	165	0
2	JE	3418	0	3329	203	0
2	JG	3418	0	3327	175	0
2	KE	3418	0	3327	208	0
2	KG	3418	0	3328	191	0
2	KI	3418	0	3329	186	0
2	LE	3418	0	3331	190	0
2	LG	3418	0	3329	214	0
2	LI	3418	0	3328	191	0
2	ME	3418	0	3328	191	0
2	MG	3418	0	3328	242	0
2	MI	3418	0	3328	174	0
2	NE	3418	0	3328	235	0
2	NG	3418	0	3329	232	0
2	NI	3418	0	3328	210	0
2	OE	3418	0	3327	213	0
2	OG	3418	0	3327	228	0
2	OI	3418	0	3328	246	0
2	PE	3418	0	3327	218	0
2	PG	3418	0	3329	228	0
2	PI	3418	0	3328	233	0
2	QE	3418	0	3328	228	0
2	QG	3418	0	3329	229	0
2	QI	3418	0	3328	223	0
2	RE	3418	0	3329	225	0
2	RG	3418	0	3328	235	0
2	RI	3418	0	3327	262	0
2	SE	3418	0	3327	190	0
2	SG	3418	0	3328	260	0
2	SI	3418	0	3328	240	0
2	TG	3418	0	3328	214	0
2	TI	3418	0	3329	234	0
2	UE	3418	0	3327	230	0
2	UG	3418	0	3329	244	0
2	VE	3418	0	3327	234	0
2	VG	3418	0	3328	255	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	WE	3418	0	3329	255	0
2	WG	3418	0	3328	266	0
2	WI	3418	0	3329	264	0
3	AF	3356	0	3236	198	0
3	AH	3356	0	3235	213	0
3	BF	3356	0	3235	180	0
3	BH	3356	0	3235	198	0
3	CF	3356	0	3236	169	0
3	CH	3356	0	3237	192	0
3	CJ	3356	0	3237	168	0
3	DD	3356	0	3236	183	0
3	DF	3356	0	3236	194	0
3	DH	3356	0	3238	152	0
3	ED	3356	0	3237	176	0
3	EF	3356	0	3235	194	0
3	EH	3356	0	3237	167	0
3	FD	3356	0	3237	159	0
3	FF	3356	0	3235	167	0
3	FH	3356	0	3237	139	0
3	GD	3356	0	3237	178	0
3	GF	3356	0	3235	188	0
3	GH	3356	0	3235	177	0
3	HD	3356	0	3235	162	0
3	HF	3356	0	3235	178	0
3	HH	3356	0	3235	182	0
3	IF	3356	0	3237	191	0
3	IH	3356	0	3235	181	0
3	JD	3356	0	3235	173	0
3	JF	3356	0	3235	178	0
3	JH	3356	0	3237	160	0
3	KD	3356	0	3235	170	0
3	KF	3356	0	3236	163	0
3	KH	3356	0	3236	175	0
3	LD	3356	0	3233	175	0
3	LF	3356	0	3236	198	0
3	LH	3356	0	3235	187	0
3	MF	3356	0	3235	169	0
3	MH	3356	0	3235	230	0
3	ND	3356	0	3235	172	0
3	NF	3356	0	3236	209	0
3	NH	3356	0	3235	214	0
3	OD	3356	0	3235	171	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	OF	3356	0	3236	192	0
3	OH	3356	0	3234	242	0
3	PF	3356	0	3234	205	0
3	PH	3356	0	3236	216	0
3	QF	3356	0	3235	216	0
3	QH	3356	0	3235	215	0
3	RF	3356	0	3235	237	0
3	RH	3356	0	3235	238	0
3	RJ	3356	0	3237	208	0
3	SF	3356	0	3235	215	0
3	SH	3356	0	3235	231	0
3	SJ	3356	0	3237	209	0
3	TF	3356	0	3236	201	0
3	TH	3356	0	3236	191	0
3	TJ	3356	0	3238	179	0
3	UD	3356	0	3235	194	0
3	UF	3356	0	3235	217	0
3	UH	3356	0	3238	196	0
3	VD	3356	0	3234	222	0
3	VF	3356	0	3235	238	0
3	VH	3356	0	3236	207	0
3	WF	3356	0	3235	219	0
3	WH	3356	0	3235	202	0
4	B2	2036	0	2084	69	0
4	B3	2816	0	2822	136	0
4	B7	3082	0	3105	120	0
4	B8	1463	0	1499	90	0
5	C2	1175	0	1120	60	0
5	C3	2978	0	2969	161	0
5	C4	670	0	685	61	0
5	C7	1983	0	1923	82	0
5	C8	2534	0	2543	108	0
5	Cb	2125	0	2142	0	0
5	Cc	2159	0	2100	0	0
6	D2	583	0	539	18	0
6	D3	3225	0	3158	137	0
6	D4	1080	0	1095	51	0
6	D7	836	0	857	79	0
6	D8	3192	0	3146	145	0
6	D9	849	0	771	39	0
7	E2	1558	0	1502	82	0
7	E3	519	0	490	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	F2	2640	0	2658	126	0
8	F3	1927	0	1862	97	0
8	F6	2503	0	2456	98	0
8	F7	2003	0	2062	103	0
8	Fa	1746	0	1798	0	0
8	Fb	2634	0	2604	0	0
8	Fc	224	0	208	0	0
8	F1	2721	0	2733	0	0
9	G1	4192	0	4130	182	0
9	G2	4081	0	4025	176	0
10	G5	6169	0	6044	330	0
11	H3	1185	0	1141	128	0
11	H4	1121	0	1073	157	0
12	I2	298	0	281	17	0
12	I3	298	0	281	15	0
13	J2	1378	0	1354	64	0
13	J3	1378	0	1354	54	0
14	K2	1722	0	1785	124	0
14	K3	3465	0	3572	221	0
14	K4	1327	0	1348	59	0
15	L2	1929	0	2013	150	0
15	L3	1929	0	2013	129	0
16	M2	510	0	492	41	0
16	M3	510	0	492	29	0
17	N2	535	0	512	39	0
17	N3	535	0	512	40	0
18	O1	825	0	817	39	0
18	O2	825	0	817	78	0
19	P1	4696	0	4674	277	0
19	P2	4696	0	4674	282	0
20	Q1	1473	0	1492	114	0
20	Q2	1473	0	1492	126	0
21	R2	597	0	589	45	0
22	XC	1540	0	1570	116	0
22	XD	1540	0	1570	106	0
22	XE	1540	0	1570	123	0
23	XJ	1469	0	1477	94	0
23	XK	1469	0	1477	99	0
23	XL	1469	0	1477	88	0
24	YI	1365	0	1356	107	0
24	YJ	1365	0	1356	76	0
24	YK	1365	0	1356	84	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	YL	1365	0	1356	73	0
24	YM	1365	0	1356	77	0
24	YN	1365	0	1356	89	0
25	AE	32	0	12	3	0
25	AF	32	0	11	5	0
25	AG	32	0	12	4	0
25	AH	32	0	10	8	0
25	AI	32	0	12	6	0
25	BE	32	0	12	4	0
25	BF	32	0	10	9	0
25	BG	32	0	12	11	0
25	BH	32	0	11	9	0
25	BI	32	0	12	8	0
25	CF	32	0	10	6	0
25	CG	32	0	12	6	0
25	CH	32	0	11	4	0
25	CI	32	0	12	5	0
25	CJ	32	0	10	4	0
25	DD	32	0	10	2	0
25	DE	32	0	12	11	0
25	DF	32	0	10	8	0
25	DG	32	0	12	9	0
25	DH	32	0	10	6	0
25	ED	32	0	10	5	0
25	EE	32	0	12	10	0
25	EF	32	0	11	7	0
25	EG	32	0	11	13	0
25	EH	32	0	11	6	0
25	FD	32	0	11	9	0
25	FE	32	0	12	9	0
25	FF	64	0	22	13	0
25	FH	32	0	10	4	0
25	GD	32	0	10	5	0
25	GE	32	0	9	7	0
25	GF	32	0	10	6	0
25	GG	32	0	12	6	0
25	GH	64	0	22	12	0
25	HD	32	0	11	10	0
25	HE	32	0	11	4	0
25	HF	32	0	10	3	0
25	HG	32	0	12	5	0
25	HH	32	0	10	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	HI	32	0	12	9	0
25	IE	32	0	12	3	0
25	IF	32	0	10	8	0
25	IG	32	0	12	3	0
25	IH	32	0	10	9	0
25	II	32	0	12	7	0
25	JD	32	0	10	4	0
25	JE	32	0	12	12	0
25	JF	32	0	10	9	0
25	JG	32	0	12	3	0
25	JH	32	0	11	5	0
25	KD	32	0	10	5	0
25	KE	32	0	12	6	0
25	KF	32	0	11	9	0
25	KG	32	0	11	5	0
25	KH	32	0	11	5	0
25	KI	32	0	11	5	0
25	LD	32	0	11	6	0
25	LE	32	0	12	9	0
25	LF	32	0	10	3	0
25	LG	32	0	12	5	0
25	LH	32	0	10	6	0
25	LI	32	0	12	7	0
25	ME	32	0	12	5	0
25	MF	32	0	11	10	0
25	MG	32	0	11	11	0
25	MH	32	0	11	3	0
25	MI	32	0	12	4	0
25	ND	32	0	10	6	0
25	NE	32	0	12	5	0
25	NF	32	0	11	4	0
25	NG	32	0	12	5	0
25	NH	32	0	11	7	0
25	NI	32	0	12	5	0
25	OD	32	0	11	7	0
25	OE	32	0	12	7	0
25	OF	32	0	10	10	0
25	OG	32	0	12	7	0
25	OH	32	0	11	7	0
25	OI	32	0	12	6	0
25	PE	32	0	12	10	0
25	PF	32	0	10	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	PG	32	0	12	4	0
25	PH	32	0	11	7	0
25	PI	32	0	12	11	0
25	QE	32	0	12	9	0
25	QF	32	0	10	6	0
25	QG	32	0	12	4	0
25	QH	32	0	11	11	0
25	QI	32	0	12	9	0
25	RE	32	0	12	3	0
25	RF	32	0	10	11	0
25	RG	32	0	12	5	0
25	RH	32	0	11	9	0
25	RI	32	0	12	6	0
25	RJ	32	0	10	10	0
25	SE	32	0	12	4	0
25	SF	32	0	11	8	0
25	SG	32	0	12	9	0
25	SH	32	0	10	9	0
25	SI	32	0	12	5	0
25	SJ	32	0	11	7	0
25	TF	32	0	11	7	0
25	TG	32	0	12	7	0
25	TH	32	0	11	7	0
25	TI	32	0	12	8	0
25	TJ	32	0	11	6	0
25	UD	32	0	10	6	0
25	UE	32	0	12	5	0
25	UF	32	0	10	9	0
25	UG	32	0	12	5	0
25	UH	32	0	10	8	0
25	VD	32	0	10	5	0
25	VE	32	0	12	4	0
25	VF	32	0	11	8	0
25	VG	32	0	12	2	0
25	VH	32	0	10	7	0
25	WE	32	0	12	7	0
25	WF	32	0	10	6	0
25	WG	32	0	12	9	0
25	WH	32	0	10	9	0
25	WI	32	0	12	5	0
All	All	540760	0	524837	28754	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 27.

All (28754) 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)
6:D7:316:GLN:HE21	6:D7:316:GLN:N	1.37	1.21
2:KI:402:ARG:HH22	21:R2:129:LYS:HG2	1.09	1.09
11:H4:212:LEU:HD13	11:H4:214:GLN:HE22	1.04	1.07
2:EE:326:LYS:HE3	3:EF:219:THR:HA	1.34	1.06
5:C3:141:HIS:HB3	5:C4:419:ARG:HH22	1.22	1.04
3:KD:278:SER:O	3:KD:282:ARG:HB2	1.58	1.04
2:SE:318:LEU:O	2:SE:375:VAL:HA	1.60	1.01
2:CI:280:LYS:O	2:CI:284:GLU:HB2	1.59	1.01
3:HD:252:LYS:HE2	2:HE:100:ALA:HA	1.44	1.00
19:P2:176:THR:HG22	19:P2:185:TRP:HH2	1.28	0.98
14:K2:333:CYS:HA	14:K2:464:ARG:HH22	1.27	0.98
2:BG:66:VAL:HA	2:BG:91:GLN:HE21	1.30	0.97
3:IF:380:ARG:O	3:IF:384:GLN:NE2	1.97	0.97
2:OI:34:GLY:HA2	2:OI:86:LEU:HD21	1.48	0.96
2:OI:216:ASN:HD21	2:OI:275:VAL:HG23	1.31	0.96
9:G1:438:PHE:HE2	9:G1:451:ILE:HB	1.29	0.96
2:MG:15:GLN:HG3	25:MG:501:GTP:HN1	1.30	0.95
20:Q1:1427:LYS:HE2	20:Q1:1499:LYS:H	1.31	0.95
2:UG:318:LEU:O	2:UG:375:VAL:HA	1.64	0.95
2:JE:15:GLN:HG3	25:JE:501:GTP:HN1	1.30	0.95
3:AF:324:LYS:HE2	2:AG:221:ARG:HA	1.45	0.95
2:SG:318:LEU:O	2:SG:375:VAL:HA	1.65	0.95
17:N2:160:LYS:NZ	2:WE:215:ARG:O	2.01	0.94
3:WF:4:ILE:HD11	3:WF:131:GLN:HB2	1.50	0.94
2:RG:318:LEU:O	2:RG:375:VAL:HA	1.67	0.94
2:CG:229:ARG:HH22	2:CG:367:ASP:HB2	1.32	0.94
2:SI:318:LEU:O	2:SI:375:VAL:HA	1.67	0.94
3:NH:12:CYS:HA	3:NH:15:GLN:HE22	1.33	0.93
17:N2:157:TYR:HB3	17:N2:159:ARG:HH12	1.31	0.93
3:NF:273:LEU:H	3:NF:292:GLN:HE22	1.14	0.93
2:WI:255:PHE:O	2:WI:259:LEU:HB2	1.66	0.93
3:SJ:273:LEU:H	3:SJ:292:GLN:HE22	1.15	0.93
10:G5:649:LYS:HE3	10:G5:653:LEU:HD13	1.51	0.93
2:AI:208:ALA:H	2:AI:304:LYS:HZ1	1.08	0.93
2:NE:89:PRO:HD2	2:OE:280:LYS:HZ3	1.34	0.92
2:QI:318:LEU:O	2:QI:375:VAL:HA	1.68	0.92
3:JF:3:GLU:HB2	3:JF:62:ARG:HH22	1.32	0.92
3:SF:325:GLU:OE1	2:SG:221:ARG:NH2	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XD:75:PHE:HB2	22:XD:168:SER:O	1.69	0.92
19:P2:17:GLN:HG3	19:P2:615:LYS:HB2	1.49	0.91
23:XK:226:ILE:HA	23:XK:229:LYS:HG2	1.50	0.91
11:H3:12:PRO:HA	11:H3:43:LEU:HD13	1.51	0.91
2:NG:396:ASP:HA	2:NG:422:ARG:HH22	1.35	0.91
19:P1:556:GLU:HG3	19:P1:558:GLY:H	1.34	0.91
23:XJ:68:ALA:H	23:XJ:80:TRP:HA	1.35	0.91
3:UF:267:MET:HG2	3:UF:301:ALA:HB3	1.52	0.91
3:GD:267:MET:HG2	3:GD:301:ALA:HB3	1.52	0.91
3:GH:252:LYS:NZ	2:GI:101:ASN:OD1	2.03	0.91
3:HF:249:ASP:HB3	3:HF:252:LYS:HG2	1.52	0.91
2:PI:255:PHE:O	2:PI:259:LEU:HB2	1.71	0.91
10:G5:524:ASN:HD22	10:G5:726:SER:HB3	1.34	0.90
3:CH:256:ASN:HB3	3:CH:350:LYS:HG3	1.53	0.90
20:Q1:1416:ARG:HB2	20:Q1:1515:LEU:HD11	1.52	0.90
2:BE:30:ILE:HD13	2:BE:36:MET:HE1	1.53	0.90
3:ED:15:GLN:HE21	3:ED:222:TYR:HD1	1.18	0.90
11:H4:219:SER:OG	11:H4:237:ARG:NH2	2.04	0.90
3:KD:247:ASN:HB3	3:KD:252:LYS:HG2	1.51	0.90
2:PG:70:LEU:HD13	2:PG:95:GLY:HA3	1.54	0.90
2:QI:208:ALA:H	2:QI:304:LYS:HZ1	1.18	0.90
5:C3:121:ARG:NH2	5:C4:374:GLN:O	2.05	0.90
24:YM:128:ASP:HA	24:YM:131:ARG:HG2	1.54	0.90
3:TF:278:SER:HA	3:TF:281:TYR:HB2	1.54	0.90
3:VF:12:CYS:HA	3:VF:15:GLN:HE22	1.36	0.90
3:AF:163:ILE:HD11	3:AF:251:ARG:HG3	1.51	0.90
11:H3:255:ARG:HH11	11:H3:257:PRO:HD3	1.36	0.90
15:L3:249:ILE:HG22	15:L3:251:TYR:H	1.38	0.90
2:DG:279:GLU:HG2	11:H4:237:ARG:HH21	1.37	0.89
6:D7:316:GLN:N	6:D7:316:GLN:NE2	2.19	0.89
3:JF:324:LYS:NZ	2:JG:222:PRO:O	2.04	0.89
24:YK:155:SER:HA	24:YK:158:LEU:HG	1.54	0.89
2:WE:215:ARG:NH1	2:WE:299:ALA:O	2.05	0.89
2:UG:152:LEU:HG	2:UG:156:ARG:HH22	1.36	0.89
11:H4:212:LEU:HD13	11:H4:214:GLN:NE2	1.88	0.89
2:OI:8:HIS:HE1	2:OI:65:ALA:HB1	1.38	0.89
3:GF:1:MET:HG3	3:GF:2:ARG:H	1.38	0.89
2:PE:315:CYS:O	2:PE:351:PHE:HA	1.73	0.89
3:DD:39:ASP:OD1	3:DD:43:GLN:NE2	2.06	0.89
24:YM:19:GLN:NE2	24:YM:120:GLU:OE2	2.06	0.89
9:G2:438:PHE:HE2	9:G2:451:ILE:HB	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:68:SER:HB3	19:P1:84:VAL:HG23	1.54	0.89
2:AI:298:PRO:HD2	17:N3:73:PHE:HE2	1.39	0.88
2:TG:400:ALA:O	2:TG:402:ARG:NH1	2.06	0.88
2:JE:15:GLN:HG3	25:JE:501:GTP:N1	1.87	0.88
2:QE:208:ALA:H	2:QE:304:LYS:HZ1	1.21	0.88
3:LD:246:LEU:HD12	3:LD:352:ALA:HB1	1.53	0.88
2:NE:49:PHE:HB2	2:NE:53:PHE:HB2	1.56	0.88
3:PH:423:GLN:O	3:PH:427:ASP:HB2	1.72	0.88
2:BE:1:MET:HG3	2:BE:2:ARG:H	1.38	0.88
5:C3:281:VAL:HA	5:C4:398:THR:HG21	1.54	0.88
19:P2:48:LEU:HB3	19:P2:50:GLN:HE22	1.36	0.88
11:H4:243:ALA:O	11:H4:247:PHE:HB2	1.73	0.88
3:SJ:242:PHE:HB3	3:SJ:356:ILE:HD13	1.54	0.88
3:DD:324:LYS:NZ	2:DE:222:PRO:O	2.06	0.88
3:HD:104:GLY:HA2	3:HD:108:GLU:HB2	1.53	0.88
2:RG:53:PHE:HB3	2:RG:61:HIS:HB3	1.56	0.88
3:UH:4:ILE:HD11	3:UH:131:GLN:HB2	1.54	0.88
3:CH:278:SER:O	3:CH:282:ARG:HB2	1.74	0.87
3:LF:302:ALA:HB1	3:LF:377:LEU:HD11	1.55	0.87
3:KD:139:LEU:HD11	3:KD:171:PRO:HD3	1.56	0.87
2:MG:15:GLN:HG3	25:MG:501:GTP:N1	1.88	0.87
2:RE:315:CYS:O	2:RE:351:PHE:HA	1.75	0.87
2:KG:278:ALA:HA	2:KG:369:ALA:HB2	1.57	0.87
3:OH:37:HIS:HA	24:YN:64:ARG:HH12	1.38	0.87
19:P2:600:GLN:O	19:P2:616:TYR:HB2	1.73	0.87
3:HD:215:LEU:O	3:HD:276:ARG:NH1	2.08	0.87
2:BI:99:ALA:H	2:BI:145:THR:HG22	1.40	0.87
3:EF:137:HIS:O	3:EF:168:SER:HA	1.75	0.87
11:H4:306:ARG:HH12	11:H4:310:LYS:HD3	1.38	0.87
3:IH:130:LEU:O	3:IH:162:ARG:NH1	2.07	0.87
3:KF:344:TRP:HD1	2:KG:401:LYS:HD2	1.40	0.87
3:TJ:278:SER:HA	3:TJ:281:TYR:HB2	1.55	0.87
3:CF:267:MET:HG2	3:CF:301:ALA:HB3	1.56	0.87
3:WF:174:LYS:HD2	3:WF:175:VAL:HG13	1.56	0.86
19:P1:390:ILE:HG22	19:P1:423:ILE:HD11	1.57	0.86
3:QF:278:SER:HA	3:QF:281:TYR:HB2	1.57	0.86
2:RE:318:LEU:O	2:RE:375:VAL:HA	1.75	0.86
2:VG:318:LEU:O	2:VG:375:VAL:HA	1.75	0.86
19:P2:524:ARG:HH12	3:VH:37:HIS:HB3	1.40	0.86
2:EE:34:GLY:HA3	2:EE:86:LEU:HD11	1.56	0.86
3:OH:211:CYS:HA	3:OH:215:LEU:HB2	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:12:CYS:SG	25:RJ:501:GTP:N3	2.48	0.86
2:SE:208:ALA:H	2:SE:304:LYS:HZ1	1.24	0.86
6:D3:267:ARG:HA	6:D3:270:ARG:HE	1.40	0.86
3:EF:58:LYS:NZ	3:FF:280:GLN:OE1	2.08	0.86
3:OF:249:ASP:HB3	3:OF:252:LYS:HB2	1.58	0.86
2:RI:329:ASN:HA	2:RI:332:ILE:HG12	1.58	0.86
2:UE:255:PHE:O	2:UE:259:LEU:HB2	1.75	0.86
2:SI:338:LYS:HZ2	2:SI:340:THR:H	1.24	0.86
3:VD:3:GLU:HG2	3:VD:130:LEU:HD23	1.58	0.85
1:A2:261:ASP:OD1	1:A2:394:ARG:NH2	2.09	0.85
3:LD:245:GLN:HE21	2:LE:15:GLN:HE22	1.24	0.85
2:SI:140:SER:HB2	2:SI:171:ILE:HG22	1.57	0.85
3:UH:63:ALA:O	3:UH:89:ASN:ND2	2.09	0.85
2:HG:205:ASP:OD2	2:HG:304:LYS:NZ	2.10	0.85
3:VF:273:LEU:H	3:VF:292:GLN:HE22	1.21	0.85
24:YI:45:SER:OG	24:YI:47:GLU:OE1	1.94	0.85
3:FD:324:LYS:NZ	2:FE:222:PRO:O	2.10	0.85
2:HI:285:GLN:HE22	2:HI:287:SER:HB3	1.41	0.85
3:UD:2:ARG:HD3	3:UD:129:CYS:HB3	1.58	0.85
3:WH:70:PRO:HA	3:WH:73:MET:HE3	1.58	0.85
2:BG:278:ALA:HA	2:BG:369:ALA:HB2	1.58	0.85
15:L3:188:LEU:HB2	15:L3:252:ILE:HG13	1.56	0.85
2:RI:315:CYS:O	2:RI:351:PHE:HA	1.77	0.85
2:RI:318:LEU:O	2:RI:375:VAL:HA	1.75	0.85
2:WI:115:VAL:HG11	2:WI:152:LEU:HD22	1.59	0.85
7:E2:153:ARG:NH1	7:E2:154:ASN:OD1	2.10	0.85
2:AE:419:SER:HA	2:AE:422:ARG:HE	1.40	0.85
3:HF:117:LEU:HD11	3:HF:154:LYS:HD2	1.57	0.85
19:P1:389:ILE:O	19:P1:400:ALA:HA	1.75	0.85
19:P2:507:CYS:SG	19:P2:520:SER:OG	2.35	0.85
3:RF:273:LEU:H	3:RF:292:GLN:HE22	1.22	0.85
2:DE:280:LYS:O	2:DE:284:GLU:HB2	1.76	0.85
2:FE:88:HIS:CE1	2:FE:121:ARG:HH22	1.94	0.85
15:L3:80:ARG:HG2	15:L3:81:CYS:H	1.41	0.85
2:NG:115:VAL:HG21	2:NG:156:ARG:HD3	1.59	0.85
1:A2:205:VAL:HG12	1:A2:206:ARG:HH11	1.41	0.85
2:RE:208:ALA:H	2:RE:304:LYS:HZ1	1.23	0.85
3:AH:324:LYS:NZ	2:AI:222:PRO:O	2.09	0.84
2:KE:262:TYR:HE1	3:KF:393:ALA:HA	1.42	0.84
3:LF:299:MET:HG2	3:LF:305:PRO:HD3	1.57	0.84
3:GF:247:ASN:HB2	3:GF:252:LYS:HG2	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L3:47:LYS:HD2	15:L3:51:PRO:HA	1.56	0.84
3:OF:392:LYS:HB2	3:OF:395:LEU:HD13	1.59	0.84
2:QI:79:ARG:O	2:QI:84:ARG:NH1	2.08	0.84
2:QI:255:PHE:O	2:QI:259:LEU:HB2	1.78	0.84
3:AH:139:LEU:HD11	3:AH:171:PRO:HD3	1.59	0.84
2:TI:208:ALA:H	2:TI:304:LYS:HZ1	1.25	0.84
3:BF:261:PRO:O	3:BF:264:HIS:NE2	2.10	0.84
3:HH:8:GLN:HE22	3:HH:63:ALA:HB1	1.43	0.84
19:P2:175:VAL:HG22	19:P2:184:VAL:HG22	1.59	0.84
6:D7:354:GLN:NE2	6:D8:241:TYR:O	2.09	0.84
3:OH:4:ILE:HD11	3:OH:131:GLN:HB2	1.59	0.84
20:Q2:1417:ARG:HD3	20:Q2:1455:ARG:HH21	1.42	0.84
3:SF:12:CYS:HA	3:SF:15:GLN:HE22	1.40	0.84
8:F2:206:LEU:O	8:F3:89:ARG:NH2	2.09	0.84
2:GE:101:ASN:HB3	2:GE:182:VAL:HG11	1.57	0.84
3:HH:324:LYS:NZ	2:HI:222:PRO:O	2.10	0.84
3:PF:54:ALA:HA	3:QF:283:ALA:HB2	1.57	0.84
1:A3:28:GLU:HB3	4:B3:55:TRP:HZ3	1.42	0.84
2:BI:205:ASP:OD2	2:BI:304:LYS:NZ	2.10	0.84
15:L3:80:ARG:HH22	2:LI:193:THR:HA	1.43	0.84
19:P2:172:GLU:HG2	19:P2:187:LEU:HB3	1.57	0.84
19:P2:432:ILE:O	19:P2:443:VAL:HA	1.77	0.84
2:UG:255:PHE:O	2:UG:259:LEU:HB2	1.77	0.84
3:VF:419:VAL:HG12	3:VF:423:GLN:HE22	1.41	0.84
2:AI:1:MET:HG3	2:AI:2:ARG:H	1.43	0.84
2:FE:226:ASN:ND2	2:FE:367:ASP:OD2	2.10	0.84
19:P1:84:VAL:HG22	19:P1:113:LYS:HB2	1.59	0.84
3:RJ:135:LEU:HD21	3:RJ:151:LEU:HD11	1.58	0.84
2:CG:285:GLN:HE22	2:CG:287:SER:HB3	1.40	0.84
14:K4:34:LEU:HB3	14:K4:38:ARG:NH1	1.92	0.84
19:P2:434:SER:O	19:P2:441:VAL:HA	1.78	0.84
2:PI:53:PHE:HB3	2:PI:61:HIS:HB3	1.60	0.84
2:PI:208:ALA:H	2:PI:304:LYS:HZ1	1.24	0.84
3:QH:36:TYR:O	24:YL:64:ARG:NH2	2.10	0.84
2:CI:101:ASN:HB3	2:CI:182:VAL:HG11	1.58	0.84
3:FF:278:SER:HA	3:FF:281:TYR:HB2	1.60	0.84
3:KD:174:LYS:HG3	3:KD:175:VAL:HG12	1.60	0.84
2:WG:262:TYR:OH	3:WH:391:ARG:O	1.94	0.84
11:H4:256:HIS:HB3	11:H4:257:PRO:HD3	1.59	0.83
2:AI:255:PHE:O	2:AI:259:LEU:HB2	1.78	0.83
2:SI:65:ALA:O	2:SI:91:GLN:NE2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XD:15:TYR:HD1	22:XD:164:ARG:HB2	1.40	0.83
3:HD:324:LYS:HD2	2:HE:221:ARG:HA	1.57	0.83
3:IF:330:MET:HG3	3:IF:349:VAL:HG21	1.61	0.83
2:OG:89:PRO:HD2	2:PG:280:LYS:HZ3	1.41	0.83
2:TG:2:ARG:NH2	2:TG:250:VAL:O	2.11	0.83
23:XL:207:ASP:OD1	23:XL:210:GLN:NE2	2.12	0.83
3:JD:48:ASN:O	3:JD:62:ARG:NH2	2.11	0.83
2:KI:273:ALA:HB2	2:KI:295:CYS:HB3	1.58	0.83
2:UE:280:LYS:O	2:UE:284:GLU:HB2	1.78	0.83
6:D9:75:GLU:HA	6:D9:78:ARG:HE	1.44	0.83
2:UE:25:CYS:HB2	2:UE:30:ILE:HB	1.60	0.83
3:CF:47:ILE:HG22	11:H3:224:PHE:HZ	1.42	0.83
3:IH:46:ARG:HD2	3:IH:241:ARG:HA	1.61	0.83
8:F2:356:LYS:HG3	8:F2:360:GLN:HE22	1.42	0.83
2:HG:216:ASN:HD21	2:HG:275:VAL:HG23	1.43	0.83
14:K3:44:VAL:O	14:K3:108:ARG:NH2	2.11	0.83
22:XE:103:PHE:HE2	22:XE:139:PHE:HB3	1.44	0.83
15:L2:38:ASP:HA	15:L2:41:LYS:HG2	1.59	0.83
3:LD:319:GLY:HA2	3:LD:357:PRO:HG3	1.61	0.83
2:EE:273:ALA:HB2	2:EE:295:CYS:HB3	1.60	0.82
11:H4:216:LYS:HG3	11:H4:237:ARG:HG3	1.61	0.82
3:LH:319:GLY:HA2	3:LH:357:PRO:HG3	1.60	0.82
3:OF:132:GLY:HA2	3:OF:162:ARG:HB3	1.59	0.82
3:QH:162:ARG:HD3	3:QH:251:ARG:HH22	1.43	0.82
3:LF:103:LYS:HG3	3:LF:107:THR:HB	1.59	0.82
3:MF:324:LYS:NZ	2:MG:222:PRO:O	2.11	0.82
3:NH:101:TRP:HB2	3:NH:184:ASN:HD22	1.41	0.82
2:RI:271:THR:HB	2:RI:377:MET:HB3	1.59	0.82
3:WH:19:LYS:NZ	3:WH:223:GLY:O	2.11	0.82
3:DH:375:GLN:O	3:DH:379:LYS:HB2	1.80	0.82
3:GD:372:THR:HG21	3:GD:426:GLN:HG2	1.60	0.82
2:NG:254:GLU:OE2	2:NG:258:ASN:ND2	2.12	0.82
3:SH:278:SER:HA	3:SH:281:TYR:HB2	1.60	0.82
2:SI:229:ARG:HH22	2:SI:367:ASP:H	1.23	0.82
3:ED:12:CYS:HB2	25:ED:501:GTP:O4'	1.79	0.82
3:EF:4:ILE:HB	3:EF:50:TYR:HE1	1.44	0.82
3:JD:15:GLN:HE21	3:JD:222:TYR:HD1	1.25	0.82
3:KF:249:ASP:HB3	3:KF:252:LYS:HB2	1.62	0.82
3:LD:261:PRO:O	3:LD:264:HIS:NE2	2.11	0.82
20:Q1:1447:ILE:O	20:Q1:1451:TRP:HB3	1.79	0.82
3:CH:45:GLU:HG3	3:CH:46:ARG:HG2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:249:ASP:HB3	3:GH:252:LYS:HB2	1.61	0.82
3:IH:324:LYS:NZ	2:II:222:PRO:O	2.11	0.82
3:JD:15:GLN:HG3	3:JD:226:ASN:OD1	1.79	0.82
2:OG:84:ARG:HH12	24:YK:126:SER:HA	1.44	0.82
4:B3:204:ASN:HB3	4:B3:207:ARG:HH21	1.43	0.82
3:KH:273:LEU:H	3:KH:292:GLN:HE22	1.24	0.82
2:LE:12:ALA:HB2	25:LE:501:GTP:H5'	1.60	0.82
2:CG:326:LYS:HE3	3:CH:220:PRO:HD2	1.59	0.82
3:EF:324:LYS:NZ	2:EG:222:PRO:O	2.13	0.82
3:GD:46:ARG:HH12	2:GE:73:THR:HG23	1.45	0.82
2:UG:54:SER:HB2	2:UG:62:VAL:HB	1.62	0.82
3:AH:278:SER:HA	3:AH:281:TYR:HB2	1.61	0.82
3:CJ:135:LEU:HD21	3:CJ:151:LEU:HD11	1.60	0.82
3:DH:117:LEU:HD11	3:DH:154:LYS:HD2	1.62	0.82
3:FF:139:LEU:HD11	3:FF:171:PRO:HD3	1.62	0.82
14:K3:198:LEU:HD13	14:K3:332:VAL:HG22	1.62	0.82
2:QG:236:SER:O	2:QG:243:ARG:NH2	2.12	0.82
3:DF:318:ARG:HG2	3:DF:357:PRO:HA	1.62	0.82
3:GF:149:THR:HG22	3:GF:191:GLN:HE21	1.44	0.82
3:IF:178:THR:HG23	3:IF:181:GLU:HB2	1.59	0.82
3:JH:60:VAL:HG23	3:JH:86:ARG:HH11	1.43	0.82
25:MF:501:GTP:O3'	25:MF:501:GTP:O3G	1.97	0.82
3:RJ:134:GLN:HA	3:RJ:165:ASN:O	1.78	0.82
22:XD:83:LEU:O	22:XD:85:LYS:NZ	2.13	0.82
2:DG:338:LYS:HZ2	2:DG:340:THR:H	1.28	0.82
2:GG:338:LYS:HZ2	2:GG:340:THR:H	1.28	0.82
2:HE:338:LYS:HZ2	2:HE:340:THR:H	1.26	0.82
3:HF:99:ASN:HB2	3:HF:142:GLY:HA3	1.60	0.82
15:L3:48:THR:OG1	3:MH:336:LYS:NZ	2.13	0.82
2:WE:318:LEU:O	2:WE:375:VAL:HA	1.78	0.82
2:AI:102:ASN:HD21	2:AI:411:GLU:HG2	1.43	0.81
2:OI:101:ASN:HA	2:OI:144:GLY:HA2	1.62	0.81
24:YK:80:CYS:SG	24:YK:101:LYS:NZ	2.53	0.81
3:FF:350:LYS:HE3	2:FG:181:VAL:H	1.45	0.81
10:G5:120:VAL:HG12	10:G5:127:GLN:HE22	1.43	0.81
3:JD:60:VAL:HG23	3:JD:86:ARG:HH11	1.45	0.81
14:K4:138:ALA:HA	14:K4:252:LEU:HD11	1.62	0.81
2:LI:89:PRO:HD2	2:MI:280:LYS:HZ3	1.43	0.81
3:PF:324:LYS:NZ	2:PG:222:PRO:O	2.12	0.81
2:VE:326:LYS:HE3	3:VF:220:PRO:HD2	1.61	0.81
3:FH:262:ARG:HD2	3:FH:421:GLU:HG3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:507:CYS:SG	19:P1:520:SER:OG	2.38	0.81
3:DF:324:LYS:NZ	2:DG:222:PRO:O	2.13	0.81
2:FE:1:MET:SD	2:FE:2:ARG:N	2.52	0.81
10:G5:734:ARG:HE	10:G5:735:TYR:H	1.27	0.81
3:OD:135:LEU:HD21	3:OD:151:LEU:HD11	1.62	0.81
2:OI:81:GLY:O	2:OI:84:ARG:NH1	2.13	0.81
3:SJ:269:GLY:HA3	3:SJ:367:PHE:HB3	1.62	0.81
2:TG:99:ALA:H	2:TG:145:THR:HG22	1.44	0.81
2:VE:30:ILE:HA	2:VE:36:MET:HE1	1.62	0.81
24:YJ:140:LEU:HA	24:YJ:143:ILE:HD12	1.62	0.81
2:AG:147:SER:HB2	2:AG:190:THR:HG21	1.63	0.81
3:CF:278:SER:HA	3:CF:281:TYR:HB2	1.62	0.81
3:DF:11:GLN:HE21	25:DF:501:GTP:H3'	1.46	0.81
2:GG:264:ARG:O	2:GG:266:HIS:ND1	2.12	0.81
2:OE:99:ALA:H	2:OE:145:THR:HG22	1.45	0.81
3:RF:170:VAL:N	3:RF:202:ILE:O	2.11	0.81
3:TF:263:LEU:HD12	3:TF:370:ASN:HD21	1.45	0.81
2:CG:101:ASN:HB3	2:CG:182:VAL:HG11	1.61	0.81
14:K2:380:GLY:HA3	16:M2:51:MET:HE2	1.63	0.81
14:K4:34:LEU:HB3	14:K4:38:ARG:HH12	1.44	0.81
2:LG:245:ASP:O	2:LG:356:ASN:ND2	2.14	0.81
17:N3:99:ILE:HG13	17:N3:100:GLU:H	1.46	0.81
19:P1:354:LYS:NZ	19:P1:374:ASN:HA	1.96	0.81
2:RE:399:TYR:O	2:RE:402:ARG:NH1	2.14	0.81
3:FF:83:GLN:O	3:FF:86:ARG:NH2	2.14	0.81
18:O1:84:ARG:HE	18:O1:85:THR:H	1.28	0.81
2:QI:84:ARG:NH2	24:YL:124:HIS:O	2.13	0.81
3:AH:261:PRO:O	3:AH:264:HIS:NE2	2.12	0.81
7:E2:126:GLN:OE1	7:E2:133:ARG:NH2	2.14	0.81
2:FE:12:ALA:HB2	25:FE:501:GTP:H5''	1.63	0.81
2:JE:1:MET:SD	2:JE:2:ARG:N	2.54	0.81
3:KD:2:ARG:HH12	3:KD:240:LEU:HB3	1.46	0.81
3:NF:246:LEU:HB2	3:NF:352:ALA:HB1	1.61	0.81
19:P2:430:LYS:HG3	19:P2:431:ARG:HG3	1.63	0.81
2:TI:101:ASN:HA	2:TI:144:GLY:HA2	1.63	0.81
3:VF:324:LYS:HE2	2:VG:222:PRO:HD2	1.63	0.81
3:IH:247:ASN:HB3	3:IH:252:LYS:HG2	1.61	0.81
3:JD:252:LYS:HD2	2:JE:100:ALA:HA	1.62	0.81
14:K2:492:SER:O	3:LD:340:TYR:OH	1.98	0.81
14:K3:201:TRP:HE1	14:K3:331:ARG:HH22	1.26	0.81
2:IG:1:MET:SD	2:IG:2:ARG:N	2.54	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:9:VAL:HG11	2:NG:150:ALA:HB2	1.63	0.80
3:QF:77:ARG:O	3:QF:77:ARG:NH1	2.13	0.80
2:DG:79:ARG:NH2	11:H4:282:ILE:O	2.14	0.80
3:NH:375:GLN:HA	3:NH:378:PHE:CE2	2.16	0.80
2:OE:234:ILE:HD11	2:OE:272:TYR:HB2	1.63	0.80
2:RE:172:TYR:N	2:RE:204:VAL:O	2.14	0.80
2:UE:318:LEU:O	2:UE:375:VAL:HA	1.79	0.80
2:UG:25:CYS:HB2	2:UG:30:ILE:HB	1.63	0.80
2:VE:311:LYS:HE3	2:VE:344:VAL:HA	1.63	0.80
2:AE:68:VAL:HG12	2:AE:93:ILE:HB	1.63	0.80
2:CI:75:VAL:O	2:CI:79:ARG:HG2	1.82	0.80
10:G5:642:CYS:HA	10:G5:645:GLU:HG3	1.63	0.80
3:JF:253:LEU:O	3:JF:257:MET:HB2	1.81	0.80
14:K3:211:ARG:NH2	21:R2:266:GLU:OE1	2.14	0.80
2:LI:99:ALA:H	2:LI:145:THR:HG22	1.45	0.80
3:ND:170:VAL:N	3:ND:202:ILE:O	2.14	0.80
3:OD:302:ALA:HB1	3:OD:377:LEU:HD11	1.63	0.80
2:WI:101:ASN:HA	2:WI:144:GLY:HA2	1.63	0.80
4:B7:199:ILE:HA	4:B8:316:THR:HG21	1.63	0.80
10:G5:314:ARG:NH1	10:G5:316:ASP:O	2.14	0.80
3:QH:374:ILE:HA	3:QH:377:LEU:HD13	1.63	0.80
2:TG:271:THR:HB	2:TG:377:MET:HB3	1.63	0.80
3:FD:419:VAL:HG12	3:FD:423:GLN:HE22	1.45	0.80
3:FF:261:PRO:O	3:FF:264:HIS:NE2	2.15	0.80
15:L2:232:LYS:HG2	15:L2:236:GLN:HE22	1.44	0.80
3:ND:46:ARG:HH22	2:NE:73:THR:HG23	1.45	0.80
2:TG:53:PHE:HB3	2:TG:61:HIS:HB3	1.61	0.80
3:UH:375:GLN:HE21	3:UH:422:TYR:HB3	1.45	0.80
2:BG:68:VAL:HG12	2:BG:93:ILE:HB	1.64	0.80
2:CG:216:ASN:HD21	2:CG:275:VAL:HG23	1.46	0.80
3:DH:217:LEU:O	9:G2:281:ARG:NH2	2.15	0.80
3:FH:117:LEU:HD11	3:FH:154:LYS:HD2	1.63	0.80
3:LH:40:SER:HB2	3:LH:43:GLN:HG2	1.63	0.80
3:PH:193:VAL:HG11	3:PH:414:ASN:HD21	1.45	0.80
2:VG:255:PHE:O	2:VG:259:LEU:HB2	1.82	0.80
3:WF:77:ARG:NH1	3:WF:77:ARG:O	2.15	0.80
3:AH:163:ILE:HD13	3:AH:250:LEU:HB2	1.62	0.80
3:CH:324:LYS:NZ	2:CI:222:PRO:O	2.15	0.80
2:DG:25:CYS:HB2	2:DG:30:ILE:HB	1.63	0.80
2:MG:338:LYS:HZ2	2:MG:340:THR:H	1.30	0.80
2:NG:98:ASP:O	2:NG:105:ARG:NH2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:245:ASP:HA	2:SI:249:ASN:HD21	1.46	0.80
3:TF:239:CYS:HB3	3:TF:248:ALA:HA	1.64	0.80
9:G1:477:SER:OG	9:G1:481:ASN:O	1.99	0.80
3:HD:103:LYS:HG2	3:HD:108:GLU:HG2	1.63	0.80
2:KI:402:ARG:HD3	21:R2:125:ARG:HD2	1.63	0.80
3:QF:3:GLU:HG2	3:QF:130:LEU:HD23	1.64	0.80
3:UD:167:PHE:HA	3:UD:200:TYR:HB2	1.63	0.80
3:BF:260:PHE:HB2	3:BF:263:LEU:HD23	1.62	0.80
3:FD:215:LEU:O	3:FD:276:ARG:NH1	2.14	0.80
2:MG:358:GLN:NE2	2:MG:359:PRO:O	2.14	0.80
3:MH:178:THR:HB	3:MH:181:GLU:HG3	1.63	0.80
3:TF:83:GLN:O	3:TF:86:ARG:NH2	2.14	0.80
3:UF:19:LYS:NZ	3:UF:223:GLY:O	2.15	0.80
22:XE:7:GLN:HG3	22:XE:72:LYS:HD3	1.63	0.80
2:GI:204:VAL:HG23	2:GI:302:MET:HG3	1.64	0.80
3:OH:83:GLN:O	3:OH:86:ARG:NH2	2.15	0.80
3:RJ:178:THR:HB	3:RJ:181:GLU:HB2	1.64	0.80
3:UD:19:LYS:NZ	3:UD:223:GLY:O	2.14	0.80
2:UE:388:TRP:HD1	2:UE:425:LEU:HD11	1.47	0.80
3:BH:375:GLN:HE21	3:BH:422:TYR:HB3	1.45	0.79
2:CG:84:ARG:HH21	11:H3:213:ILE:HG23	1.45	0.79
3:KD:86:ARG:HE	3:KD:87:PRO:HD2	1.46	0.79
24:YK:57:CYS:O	24:YK:63:ARG:NH1	2.16	0.79
2:BE:264:ARG:O	2:BE:266:HIS:ND1	2.15	0.79
8:F3:162:ARG:HB3	8:F3:311:ARG:HH12	1.47	0.79
3:OH:265:PHE:HD2	3:OH:374:ILE:HG21	1.47	0.79
2:QG:220:GLU:HG2	2:QG:221:ARG:HG2	1.64	0.79
3:SF:273:LEU:H	3:SF:292:GLN:HE22	1.29	0.79
3:UF:170:VAL:N	3:UF:202:ILE:O	2.16	0.79
3:CJ:139:LEU:HD11	3:CJ:171:PRO:HD3	1.62	0.79
6:D7:368:LEU:HD22	6:D8:252:SER:H	1.47	0.79
2:FE:25:CYS:HB2	2:FE:30:ILE:HB	1.64	0.79
14:K2:405:VAL:HG13	16:M2:60:TRP:HE1	1.44	0.79
2:NE:273:ALA:HB2	2:NE:295:CYS:HB3	1.63	0.79
3:UD:113:VAL:HA	3:UD:116:VAL:HG22	1.65	0.79
2:UG:205:ASP:OD2	2:UG:304:LYS:NZ	2.15	0.79
4:B2:272:MET:HB3	4:B2:384:LEU:HD21	1.64	0.79
10:G5:560:ARG:O	10:G5:564:GLN:NE2	2.15	0.79
14:K4:46:MET:H	14:K4:108:ARG:HE	1.25	0.79
2:KI:255:PHE:O	2:KI:259:LEU:HB2	1.83	0.79
3:MH:306:ARG:NH1	3:MH:340:TYR:OH	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:273:LEU:H	3:NH:292:GLN:HE22	1.29	0.79
3:OH:246:LEU:HB2	3:OH:352:ALA:HB1	1.65	0.79
2:PE:269:LEU:HD11	2:PE:302:MET:HB3	1.63	0.79
2:PI:1:MET:SD	2:PI:2:ARG:N	2.54	0.79
2:QI:246:GLY:HA3	2:QI:356:ASN:HA	1.63	0.79
2:RG:49:PHE:HB2	2:RG:53:PHE:HB2	1.63	0.79
3:RH:273:LEU:H	3:RH:292:GLN:HE22	1.30	0.79
24:YI:44:SER:HB3	24:YI:111:SER:HB3	1.64	0.79
2:CI:207:GLU:HB2	2:CI:304:LYS:HZ1	1.48	0.79
2:HG:207:GLU:HB2	2:HG:304:LYS:HZ1	1.48	0.79
13:J3:176:PRO:O	13:J3:180:GLU:N	2.15	0.79
14:K2:340:MET:HE1	14:K2:458:TYR:HA	1.64	0.79
25:KF:501:GTP:O3'	25:KF:501:GTP:O3G	2.01	0.79
3:KH:350:LYS:HZ1	2:KI:181:VAL:HG13	1.48	0.79
18:O1:38:TYR:HD1	20:Q1:1414:LEU:HD21	1.47	0.79
3:WF:278:SER:HA	3:WF:281:TYR:HB2	1.65	0.79
3:BF:13:GLY:HA2	3:BF:16:ILE:HG22	1.64	0.79
14:K3:151:LEU:HG	14:K3:227:LEU:HD13	1.65	0.79
2:NI:25:CYS:HB2	2:NI:30:ILE:HB	1.65	0.79
19:P2:569:VAL:HG13	19:P2:590:ILE:HD13	1.63	0.79
2:RG:99:ALA:H	2:RG:145:THR:HG22	1.47	0.79
3:RH:170:VAL:N	3:RH:202:ILE:O	2.16	0.79
3:PF:419:VAL:HG12	3:PF:423:GLN:HE22	1.46	0.79
2:PG:220:GLU:HG2	2:PG:221:ARG:HG2	1.65	0.79
3:SF:190:HIS:NE2	3:SF:410:GLU:OE1	2.16	0.79
3:VD:267:MET:HG2	3:VD:301:ALA:HB3	1.64	0.79
2:WI:224:TYR:HA	2:WI:227:LEU:HB2	1.64	0.79
8:F6:141:ASN:HD21	8:F7:411:VAL:HG13	1.47	0.79
3:OD:19:LYS:NZ	3:OD:223:GLY:O	2.16	0.79
19:P1:279:PRO:O	19:P1:281:TYR:N	2.14	0.79
22:XD:160:CYS:HB2	22:XD:162:ILE:HD11	1.65	0.79
4:B3:368:LYS:HB3	4:B3:372:ARG:HH12	1.48	0.79
3:GF:156:ARG:NH1	3:GF:195:ASN:O	2.16	0.79
3:NF:392:LYS:HB2	3:NF:395:LEU:HD22	1.65	0.79
3:CJ:26:ASP:O	3:CJ:359:ARG:NH2	2.16	0.79
6:D3:423:LEU:HB3	6:D3:427:ARG:HE	1.48	0.79
2:OI:84:ARG:HH12	24:YN:124:HIS:HA	1.47	0.79
2:TG:273:ALA:HB2	2:TG:295:CYS:HB3	1.64	0.79
2:WI:400:ALA:O	2:WI:402:ARG:NH1	2.16	0.79
2:BI:33:ASP:OD1	2:BI:34:GLY:N	2.16	0.78
3:JF:247:ASN:HB3	3:JF:252:LYS:HG2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:278:SER:HA	3:ND:281:TYR:HB2	1.65	0.78
3:RJ:138:SER:HB2	3:RJ:169:VAL:HG12	1.65	0.78
1:A2:250:ALA:O	1:A2:400:ARG:NH2	2.16	0.78
3:LF:77:ARG:NH1	3:LF:77:ARG:O	2.14	0.78
2:PE:25:CYS:HB2	2:PE:30:ILE:HB	1.63	0.78
2:PE:318:LEU:O	2:PE:375:VAL:HA	1.83	0.78
2:QG:81:GLY:O	2:QG:84:ARG:NH1	2.16	0.78
2:RG:234:ILE:HD11	2:RG:272:TYR:HB2	1.65	0.78
3:VH:278:SER:HA	3:VH:281:TYR:HB2	1.63	0.78
2:WE:211:ASP:HB2	2:WE:215:ARG:HH21	1.48	0.78
2:WE:338:LYS:HZ2	2:WE:340:THR:H	1.31	0.78
3:DF:302:ALA:HB1	3:DF:377:LEU:HD21	1.65	0.78
2:EE:12:ALA:O	25:EE:501:GTP:N2	2.17	0.78
2:GE:115:VAL:HG21	2:GE:156:ARG:HD3	1.65	0.78
2:NE:358:GLN:NE2	2:NE:359:PRO:O	2.17	0.78
2:WG:220:GLU:HG2	2:WG:221:ARG:HG2	1.65	0.78
22:XE:75:PHE:HB2	22:XE:168:SER:O	1.83	0.78
2:AE:168:GLU:OE2	2:AE:198:SER:OG	2.01	0.78
2:AG:99:ALA:H	2:AG:145:THR:HG22	1.48	0.78
3:CH:213:ARG:HD3	3:CH:297:LYS:HE2	1.64	0.78
11:H3:292:MET:HG2	11:H3:293:GLN:H	1.47	0.78
11:H4:232:MET:HG3	11:H4:233:GLY:H	1.47	0.78
2:IG:438:ASP:HA	3:IH:391:ARG:HH12	1.47	0.78
2:OE:288:VAL:HG11	2:OE:327:ASP:HB2	1.65	0.78
20:Q2:1463:LYS:NZ	20:Q2:1467:GLY:O	2.16	0.78
3:UH:134:GLN:HA	3:UH:165:ASN:O	1.83	0.78
2:VG:99:ALA:H	2:VG:145:THR:HG22	1.48	0.78
11:H4:307:ALA:HB1	11:H4:315:ARG:HH21	1.49	0.78
2:KE:329:ASN:HA	2:KE:332:ILE:HG12	1.65	0.78
15:L2:188:LEU:HB2	15:L2:252:ILE:HG13	1.64	0.78
3:MH:319:GLY:HA2	3:MH:357:PRO:HG3	1.66	0.78
3:NH:322:SER:OG	3:NH:324:LYS:NZ	2.16	0.78
3:OF:324:LYS:HE2	2:OG:222:PRO:HD2	1.65	0.78
2:RI:236:SER:O	2:RI:243:ARG:NH2	2.14	0.78
3:RJ:11:GLN:O	3:RJ:15:GLN:NE2	2.16	0.78
2:VG:185:TYR:OH	2:VG:403:ALA:O	2.01	0.78
3:WH:273:LEU:H	3:WH:292:GLN:HE22	1.29	0.78
3:AH:131:GLN:HB3	3:AH:163:ILE:HD12	1.63	0.78
3:BF:309:ARG:NH2	3:BF:426:GLN:O	2.14	0.78
3:ED:309:ARG:HH21	3:ED:426:GLN:HE21	1.31	0.78
2:LG:264:ARG:O	2:LG:266:HIS:ND1	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:318:LEU:O	2:TI:375:VAL:HA	1.83	0.78
2:BI:172:TYR:HB2	2:BI:203:MET:HB3	1.64	0.78
3:CF:324:LYS:NZ	2:CG:222:PRO:O	2.17	0.78
8:F2:415:ARG:HB3	8:F3:138:THR:HG22	1.65	0.78
10:G5:560:ARG:NH1	10:G5:564:GLN:OE1	2.17	0.78
14:K3:390:ARG:NH1	14:K3:391:GLU:OE1	2.17	0.78
2:KI:12:ALA:HB2	25:KI:501:GTP:H5'	1.64	0.78
2:DG:30:ILE:HD13	2:DG:36:MET:HE3	1.66	0.78
2:JE:286:LEU:O	2:JE:373:ARG:NH1	2.17	0.78
2:KG:229:ARG:HH12	2:KG:233:GLN:HB3	1.49	0.78
3:LH:12:CYS:HA	3:LH:15:GLN:HE22	1.48	0.78
2:RI:338:LYS:HZ2	2:RI:340:THR:H	1.28	0.78
2:SE:286:LEU:O	2:SE:373:ARG:NH1	2.16	0.78
3:WH:324:LYS:NZ	2:WI:222:PRO:O	2.14	0.78
3:AF:309:ARG:NH2	3:AF:426:GLN:O	2.16	0.78
3:DD:372:THR:HG21	3:DD:426:GLN:HG2	1.66	0.78
2:EG:11:GLN:N	2:EG:69:ASP:OD1	2.17	0.78
2:GG:12:ALA:O	25:GG:501:GTP:N2	2.17	0.78
3:KD:263:LEU:HD12	3:KD:370:ASN:HD21	1.46	0.78
2:LE:75:VAL:HG23	2:LE:92:LEU:HD12	1.66	0.78
3:PF:323:MET:SD	2:PG:210:TYR:OH	2.42	0.78
2:QG:54:SER:H	2:QG:62:VAL:H	1.28	0.78
2:QI:49:PHE:HB2	2:QI:53:PHE:HB2	1.65	0.78
2:VG:338:LYS:HZ2	2:VG:340:THR:H	1.31	0.78
5:C7:164:LEU:HA	5:C7:167:MET:SD	2.24	0.78
25:DF:501:GTP:O3'	25:DF:501:GTP:O3G	2.02	0.78
15:L2:24:HIS:NE2	2:ME:429:GLU:OE1	2.17	0.78
3:LF:247:ASN:HB3	3:LF:252:LYS:HE2	1.65	0.78
2:LI:338:LYS:HZ2	2:LI:340:THR:H	1.31	0.78
2:MI:47:ASP:O	2:MI:50:ASN:N	2.16	0.78
3:QH:278:SER:HA	3:QH:281:TYR:HB2	1.65	0.78
3:RH:324:LYS:HE2	2:RI:222:PRO:HG2	1.64	0.78
2:UG:400:ALA:O	2:UG:402:ARG:NH1	2.16	0.78
3:VF:4:ILE:HD11	3:VF:131:GLN:HB2	1.66	0.78
23:XL:182:ASN:ND2	23:XL:231:MET:O	2.16	0.78
6:D9:217:ASP:N	6:D9:220:GLU:OE1	2.17	0.77
2:HI:236:SER:O	2:HI:243:ARG:NH2	2.17	0.77
3:KF:344:TRP:CD1	2:KG:401:LYS:HD2	2.19	0.77
19:P2:425:THR:HG22	19:P2:432:ILE:HG12	1.65	0.77
2:SG:414:GLU:HG2	2:SG:416:GLY:H	1.47	0.77
3:TH:309:ARG:HH22	3:TH:344:TRP:HZ3	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C2:284:PHE:CZ	5:C3:401:ASP:HB2	2.19	0.77
2:CI:209:ILE:HD13	2:CI:302:MET:HG2	1.65	0.77
2:HE:229:ARG:HE	2:HE:368:LEU:HD22	1.49	0.77
2:MG:273:ALA:HB2	2:MG:295:CYS:HB3	1.66	0.77
3:PF:288:GLU:O	3:PF:292:GLN:NE2	2.17	0.77
2:RG:54:SER:HB2	2:RG:62:VAL:HB	1.65	0.77
22:XD:92:GLN:NE2	22:XD:100:ARG:HB3	1.98	0.77
2:EE:319:TYR:HB3	2:EE:323:VAL:HG21	1.64	0.77
3:HF:130:LEU:O	3:HF:162:ARG:NH1	2.17	0.77
3:LF:99:ASN:HD22	3:LF:142:GLY:HA3	1.50	0.77
3:MF:247:ASN:HB2	3:MF:252:LYS:HG2	1.64	0.77
19:P1:354:LYS:HZ3	19:P1:374:ASN:HA	1.49	0.77
20:Q1:1419:ARG:O	20:Q1:1508:ASN:ND2	2.16	0.77
3:VH:309:ARG:NH2	3:VH:426:GLN:O	2.18	0.77
22:XD:30:ARG:HB3	22:XD:56:THR:HB	1.67	0.77
2:CG:1:MET:HG3	2:CG:2:ARG:H	1.50	0.77
2:CG:358:GLN:NE2	2:CG:359:PRO:O	2.16	0.77
2:LI:226:ASN:ND2	2:LI:367:ASP:OD2	2.17	0.77
2:SE:262:TYR:OH	3:SF:391:ARG:O	2.03	0.77
2:SI:216:ASN:HB2	2:SI:276:ILE:HD12	1.67	0.77
6:D7:363:ARG:NH2	6:D8:228:CYS:SG	2.58	0.77
2:KI:402:ARG:NH2	21:R2:129:LYS:HG2	1.94	0.77
19:P2:17:GLN:HB3	19:P2:613:ARG:HH21	1.50	0.77
2:QI:1:MET:HG3	2:QI:2:ARG:H	1.50	0.77
3:RH:324:LYS:HE3	2:RI:210:TYR:HE1	1.48	0.77
3:TJ:135:LEU:HD21	3:TJ:151:LEU:HD11	1.65	0.77
3:UD:7:LEU:HD13	3:UD:64:VAL:HB	1.66	0.77
2:UG:172:TYR:HD1	2:UG:203:MET:HE2	1.46	0.77
6:D7:360:ARG:HA	6:D7:363:ARG:HD2	1.65	0.77
3:DD:11:GLN:NE2	25:DD:501:GTP:O1G	2.12	0.77
9:G1:396:ASN:HA	9:G1:402:PRO:HB3	1.66	0.77
3:LD:245:GLN:NE2	25:LE:501:GTP:O6	2.12	0.77
2:OE:338:LYS:HZ2	2:OE:340:THR:H	1.32	0.77
2:RG:12:ALA:HB2	25:RG:501:GTP:H5''	1.64	0.77
3:RJ:211:CYS:HA	3:RJ:215:LEU:HB2	1.66	0.77
3:WF:173:PRO:O	3:WF:380:ARG:NH2	2.17	0.77
2:WI:1:MET:HG2	2:WI:2:ARG:H	1.47	0.77
3:BH:309:ARG:NH2	3:BH:426:GLN:O	2.18	0.77
25:IF:501:GTP:O3'	25:IF:501:GTP:O3G	2.03	0.77
14:K4:44:VAL:HG23	14:K4:45:THR:H	1.50	0.77
2:KI:358:GLN:NE2	2:KI:359:PRO:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:316:VAL:HG22	3:PF:352:ALA:HB3	1.67	0.77
24:YM:116:LYS:O	24:YM:119:HIS:ND1	2.16	0.77
3:BF:137:HIS:O	3:BF:168:SER:HA	1.85	0.77
3:CF:77:ARG:NH1	3:CF:77:ARG:O	2.17	0.77
2:EG:234:ILE:HD11	2:EG:272:TYR:HB2	1.66	0.77
2:KE:329:ASN:HD21	3:KF:208:TYR:HE2	1.30	0.77
3:LD:19:LYS:NZ	3:LD:223:GLY:O	2.16	0.77
19:P2:568:LEU:HD22	19:P2:584:VAL:HG22	1.67	0.77
20:Q2:1427:LYS:HE2	20:Q2:1499:LYS:H	1.48	0.77
2:QI:54:SER:H	2:QI:62:VAL:H	1.30	0.77
3:UD:324:LYS:NZ	2:UE:222:PRO:O	2.17	0.77
3:UH:77:ARG:O	3:UH:77:ARG:NH1	2.18	0.77
3:VF:309:ARG:NH1	3:VF:341:PHE:O	2.18	0.77
2:AI:358:GLN:NE2	2:AI:359:PRO:O	2.17	0.77
10:G5:60:PHE:HD2	10:G5:66:THR:HG22	1.49	0.77
3:GD:324:LYS:NZ	2:GE:222:PRO:O	2.17	0.77
3:GH:156:ARG:NH1	3:GH:194:GLU:OE1	2.17	0.77
14:K3:263:SER:HB3	14:K3:275:THR:HG21	1.66	0.77
2:KG:280:LYS:O	2:KG:284:GLU:HB2	1.84	0.77
3:LH:249:ASP:HB3	3:LH:252:LYS:HG2	1.66	0.77
3:OF:419:VAL:O	3:OF:423:GLN:NE2	2.18	0.77
2:PG:54:SER:HB2	2:PG:62:VAL:HB	1.65	0.77
3:QH:19:LYS:NZ	3:QH:223:GLY:O	2.17	0.77
2:QI:390:ARG:HG3	2:QI:393:HIS:HE1	1.50	0.77
3:SF:211:CYS:HA	3:SF:215:LEU:HB2	1.65	0.77
3:TF:292:GLN:O	3:TF:298:ASN:ND2	2.18	0.77
3:CJ:15:GLN:HE21	3:CJ:222:TYR:HD2	1.32	0.77
2:JE:66:VAL:HA	2:JE:91:GLN:HE21	1.50	0.77
2:LI:101:ASN:HA	2:LI:144:GLY:HA2	1.66	0.77
3:OF:278:SER:HA	3:OF:281:TYR:HB2	1.65	0.77
2:QG:12:ALA:HB1	25:QG:501:GTP:C2	2.20	0.77
3:SJ:421:GLU:HA	3:SJ:424:GLN:HE21	1.49	0.77
3:TJ:211:CYS:HA	3:TJ:215:LEU:HB3	1.67	0.77
3:VH:266:PHE:HB3	3:VH:368:ILE:HD11	1.67	0.77
2:WI:236:SER:O	2:WI:243:ARG:NH2	2.17	0.77
22:XE:170:ARG:NH1	22:XE:171:LEU:O	2.18	0.77
4:B2:302:GLU:HA	4:B2:305:ARG:HE	1.48	0.76
4:B3:413:ARG:HH12	6:D3:400:GLN:HA	1.49	0.76
2:CI:216:ASN:HD21	2:CI:275:VAL:HG23	1.49	0.76
3:FF:58:LYS:NZ	3:GF:280:GLN:OE1	2.16	0.76
3:HF:150:LEU:HB3	3:HF:154:LYS:HZ1	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:51:TYR:HB3	3:NH:59:TYR:HB3	1.67	0.76
2:OE:49:PHE:HB2	2:OE:53:PHE:HB2	1.67	0.76
2:QG:326:LYS:HE2	3:QH:219:THR:HA	1.67	0.76
3:WH:211:CYS:HA	3:WH:215:LEU:HD23	1.67	0.76
2:BI:88:HIS:CE1	2:BI:121:ARG:HH22	2.03	0.76
3:DF:58:LYS:HE3	3:EF:280:GLN:HB2	1.68	0.76
2:DG:189:LEU:HD23	2:DG:192:HIS:HE1	1.49	0.76
9:G1:474:LYS:HB3	9:G1:477:SER:HB2	1.66	0.76
3:JF:282:ARG:NH2	3:JF:292:GLN:OE1	2.17	0.76
3:OH:6:HIS:HD2	3:OH:134:GLN:HG2	1.50	0.76
2:RE:236:SER:O	2:RE:243:ARG:NH2	2.17	0.76
2:TG:220:GLU:HG2	2:TG:221:ARG:HG2	1.67	0.76
2:VE:216:ASN:HD21	2:VE:275:VAL:HG23	1.50	0.76
2:VE:280:LYS:O	2:VE:284:GLU:HB2	1.85	0.76
3:VF:45:GLU:O	3:VF:48:ASN:ND2	2.18	0.76
2:AG:234:ILE:HD11	2:AG:272:TYR:HB2	1.65	0.76
3:LH:8:GLN:HE22	3:LH:63:ALA:HB1	1.51	0.76
2:NE:53:PHE:O	2:NE:64:ARG:NH1	2.17	0.76
20:Q1:1471:VAL:HG12	20:Q1:1475:ARG:HE	1.50	0.76
2:HE:220:GLU:HG2	2:HE:221:ARG:HG2	1.68	0.76
3:LD:245:GLN:HE21	2:LE:15:GLN:NE2	1.82	0.76
2:OE:54:SER:H	2:OE:62:VAL:H	1.31	0.76
2:PI:306:ASP:OD2	2:PI:309:HIS:ND1	2.18	0.76
2:TG:262:TYR:OH	3:TH:391:ARG:O	2.02	0.76
3:UF:52:ASN:OD1	3:UF:62:ARG:NH1	2.18	0.76
2:VG:83:TYR:HB3	2:VG:86:LEU:HD12	1.68	0.76
3:VH:83:GLN:O	3:VH:86:ARG:NH2	2.17	0.76
2:AI:38:SER:OG	9:G2:188:ARG:NH1	2.18	0.76
3:DF:392:LYS:HB2	3:DF:395:LEU:HD13	1.68	0.76
8:F2:214:ASN:HD21	8:F2:339:THR:HA	1.50	0.76
3:FH:142:GLY:N	25:FH:501:GTP:O3B	2.19	0.76
9:G2:477:SER:OG	9:G2:481:ASN:O	2.03	0.76
2:GG:205:ASP:OD2	2:GG:304:LYS:NZ	2.19	0.76
3:IF:132:GLY:HA2	3:IF:162:ARG:HB3	1.67	0.76
3:LD:174:LYS:HG3	3:LD:175:VAL:HG12	1.68	0.76
2:ME:229:ARG:HH12	2:ME:233:GLN:HB3	1.50	0.76
3:RH:374:ILE:HG23	3:RH:377:LEU:HD23	1.66	0.76
3:WH:8:GLN:NE2	3:WH:13:GLY:O	2.19	0.76
2:AI:273:ALA:HB2	2:AI:295:CYS:HB3	1.68	0.76
3:CF:246:LEU:HB2	3:CF:352:ALA:HB1	1.67	0.76
6:D8:313:ASP:OD1	8:F3:271:ARG:NH2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D8:357:LEU:HB3	6:D9:247:PHE:HE2	1.49	0.76
8:F3:308:GLN:HA	8:F3:311:ARG:HD3	1.65	0.76
3:KD:198:GLU:HG2	3:KD:266:PHE:HE2	1.51	0.76
2:KG:244:PHE:HB2	2:KG:356:ASN:HD21	1.51	0.76
2:OG:84:ARG:NH2	24:YK:124:HIS:O	2.19	0.76
2:SI:316:CYS:HB3	2:SI:378:LEU:HB2	1.67	0.76
2:FG:88:HIS:CE1	2:FG:121:ARG:HH22	2.03	0.76
3:GD:330:MET:HG3	3:GD:349:VAL:HG11	1.68	0.76
3:KF:324:LYS:NZ	2:KG:222:PRO:O	2.18	0.76
2:KG:358:GLN:NE2	2:KG:359:PRO:O	2.19	0.76
3:MH:350:LYS:HE2	2:MI:181:VAL:HG13	1.67	0.76
3:VD:48:ASN:O	3:VD:62:ARG:NH2	2.18	0.76
22:XE:79:ILE:HD13	22:XE:164:ARG:HB3	1.66	0.76
5:C7:255:GLU:HA	5:C7:258:LEU:HD12	1.66	0.76
6:D3:228:CYS:SG	6:D4:356:ARG:NE	2.58	0.76
2:NI:49:PHE:HB2	2:NI:53:PHE:HB2	1.67	0.76
19:P2:418:ILE:HD12	19:P2:438:GLU:HB3	1.67	0.76
2:QI:12:ALA:HB2	25:QI:501:GTP:H5''	1.68	0.76
2:SI:99:ALA:H	2:SI:145:THR:HG22	1.51	0.76
2:TI:338:LYS:HZ2	2:TI:340:THR:H	1.32	0.76
2:UG:1:MET:SD	2:UG:2:ARG:N	2.59	0.76
3:UH:101:TRP:HB2	3:UH:184:ASN:HD22	1.49	0.76
7:E2:130:SER:O	7:E2:133:ARG:NH1	2.18	0.76
2:FE:144:GLY:N	25:FE:501:GTP:O2B	2.18	0.76
2:FG:108:TYR:O	2:FG:112:LYS:NZ	2.18	0.76
2:FG:285:GLN:HE22	2:FG:287:SER:HB3	1.51	0.76
11:H3:252:PHE:HB2	11:H3:255:ARG:HH21	1.51	0.76
3:MH:390:ARG:NH2	18:O2:40:GLN:O	2.19	0.76
3:OH:19:LYS:NZ	3:OH:223:GLY:O	2.18	0.76
3:WF:324:LYS:HE2	2:WG:222:PRO:HD2	1.67	0.76
2:WG:318:LEU:O	2:WG:375:VAL:HA	1.86	0.76
4:B2:270:ARG:HH12	4:B2:274:SER:HB2	1.51	0.76
2:BG:280:LYS:NZ	2:BG:284:GLU:OE2	2.18	0.76
2:CI:2:ARG:NH1	2:CI:242:LEU:O	2.19	0.76
3:DF:2:ARG:HH12	2:DG:97:GLU:HA	1.51	0.76
3:ED:309:ARG:O	3:ED:371:SER:OG	2.03	0.76
3:EF:75:SER:O	10:G5:482:LYS:NZ	2.17	0.76
2:FG:101:ASN:HB3	2:FG:182:VAL:HG11	1.68	0.76
2:JE:101:ASN:HA	2:JE:144:GLY:HA2	1.67	0.76
2:NG:139:HIS:HE1	2:NG:168:GLU:HB3	1.51	0.76
3:OF:6:HIS:HD2	3:OF:134:GLN:HG2	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P2:278:SER:HA	19:P2:281:TYR:CE1	2.21	0.76
2:RE:202:PHE:HE1	2:RE:268:PRO:HD2	1.51	0.76
2:RE:329:ASN:HA	2:RE:332:ILE:HG12	1.68	0.76
3:RH:269:GLY:HA3	3:RH:367:PHE:HB3	1.67	0.76
3:TF:19:LYS:NZ	3:TF:223:GLY:O	2.19	0.76
2:TG:25:CYS:HB2	2:TG:30:ILE:HB	1.68	0.76
2:UG:220:GLU:HG2	2:UG:221:ARG:HG2	1.67	0.76
3:WH:156:ARG:HH21	3:WH:160:PRO:HA	1.49	0.76
2:CG:11:GLN:NE2	25:CG:501:GTP:O3A	2.18	0.75
2:CI:79:ARG:NH2	11:H4:219:SER:O	2.17	0.75
11:H4:219:SER:HG	11:H4:237:ARG:HH22	1.32	0.75
3:JF:350:LYS:HE3	2:JG:181:VAL:H	1.49	0.75
19:P2:170:ARG:NH2	19:P2:172:GLU:OE1	2.19	0.75
3:RF:48:ASN:O	3:RF:62:ARG:NH2	2.18	0.75
25:WH:501:GTP:O3G	25:WH:501:GTP:O3'	2.03	0.75
22:XE:164:ARG:HH22	22:XE:181:PHE:HA	1.50	0.75
3:HD:324:LYS:NZ	2:HE:222:PRO:O	2.13	0.75
15:L2:85:LYS:HD3	2:LE:264:ARG:H	1.49	0.75
2:PG:215:ARG:NH1	2:PG:299:ALA:O	2.17	0.75
3:RF:211:CYS:HA	3:RF:215:LEU:HB2	1.67	0.75
3:VD:278:SER:HA	3:VD:281:TYR:HB2	1.67	0.75
3:VD:282:ARG:NH2	3:VD:292:GLN:OE1	2.17	0.75
1:A2:353:GLU:O	1:A2:357:GLN:NE2	2.20	0.75
3:GD:247:ASN:HB3	3:GD:252:LYS:HG2	1.66	0.75
2:HG:358:GLN:NE2	2:HG:359:PRO:O	2.18	0.75
3:JF:372:THR:HG21	3:JF:426:GLN:HG2	1.68	0.75
3:PH:324:LYS:HE2	2:PI:222:PRO:HD2	1.68	0.75
2:PI:89:PRO:HD2	2:QI:280:LYS:HZ3	1.52	0.75
3:SH:178:THR:HB	3:SH:181:GLU:HG3	1.68	0.75
3:VF:83:GLN:O	3:VF:86:ARG:NH2	2.19	0.75
4:B8:324:ARG:HE	4:B8:329:LEU:HA	1.52	0.75
10:G5:42:GLY:HA3	10:G5:46:ASP:HB2	1.68	0.75
2:GI:205:ASP:OD2	2:GI:304:LYS:NZ	2.18	0.75
3:JF:274:THR:HG21	3:JF:279:GLN:HG3	1.69	0.75
2:MG:224:TYR:HE2	25:MG:501:GTP:C5	2.05	0.75
2:MG:254:GLU:N	2:MG:254:GLU:OE1	2.19	0.75
2:QE:51:THR:HG23	2:QE:52:PHE:HD1	1.50	0.75
3:UH:48:ASN:O	3:UH:62:ARG:NH2	2.19	0.75
2:WE:236:SER:O	2:WE:243:ARG:NH2	2.18	0.75
2:WI:102:ASN:HB3	2:WI:105:ARG:HB2	1.67	0.75
2:BG:89:PRO:HB2	2:CG:280:LYS:HZ1	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:55:THR:HG22	11:H3:230:TRP:HE1	1.50	0.75
3:FF:178:THR:HG23	3:FF:181:GLU:HB2	1.69	0.75
3:JH:46:ARG:NH1	3:JH:240:LEU:O	2.19	0.75
3:PF:134:GLN:HA	3:PF:165:ASN:O	1.86	0.75
2:RG:228:ASN:HA	2:RG:231:ILE:HG12	1.68	0.75
3:SH:376:GLU:OE1	3:SH:376:GLU:N	2.19	0.75
3:BF:60:VAL:HG23	3:BF:86:ARG:HH11	1.51	0.75
2:BI:216:ASN:ND2	2:BI:275:VAL:O	2.19	0.75
2:EG:15:GLN:OE1	25:EG:501:GTP:N1	2.19	0.75
2:EG:358:GLN:NE2	2:EG:359:PRO:O	2.19	0.75
2:HG:243:ARG:O	2:HG:243:ARG:NH1	2.20	0.75
3:NF:324:LYS:NZ	2:NG:222:PRO:O	2.19	0.75
3:QF:309:ARG:NH2	3:QF:426:GLN:O	2.19	0.75
3:RH:263:LEU:HD12	3:RH:370:ASN:HD21	1.51	0.75
3:RJ:376:GLU:N	3:RJ:376:GLU:OE2	2.16	0.75
1:A3:61:LYS:HD3	4:B2:281:TRP:CE2	2.22	0.75
2:EG:288:VAL:HG11	2:EG:327:ASP:HB2	1.68	0.75
8:F6:159:GLU:HA	8:F6:162:ARG:HH21	1.50	0.75
3:FF:274:THR:O	3:FF:279:GLN:NE2	2.19	0.75
3:GH:245:GLN:OE1	2:GI:15:GLN:NE2	2.20	0.75
2:GI:215:ARG:NH1	2:GI:299:ALA:O	2.20	0.75
3:HF:211:CYS:HA	3:HF:215:LEU:HD13	1.68	0.75
2:JE:28:HIS:HE1	2:JE:243:ARG:HD2	1.50	0.75
3:RF:412:GLU:HA	3:RF:415:MET:HG2	1.67	0.75
2:SI:54:SER:HB2	2:SI:62:VAL:HB	1.69	0.75
3:UH:137:HIS:O	3:UH:168:SER:HA	1.87	0.75
2:VE:12:ALA:O	25:VE:501:GTP:N1	2.19	0.75
3:BH:12:CYS:SG	3:BH:13:GLY:N	2.60	0.75
3:BH:48:ASN:O	3:BH:62:ARG:NH2	2.19	0.75
2:CI:338:LYS:HZ2	2:CI:340:THR:H	1.35	0.75
3:DF:240:LEU:HD22	3:DF:248:ALA:HB1	1.67	0.75
3:FD:8:GLN:NE2	3:FD:13:GLY:O	2.19	0.75
3:FD:316:VAL:HG22	3:FD:352:ALA:HB3	1.67	0.75
3:GD:167:PHE:HB2	3:GD:233:MET:HE3	1.67	0.75
2:GG:285:GLN:HE22	2:GG:287:SER:HB3	1.51	0.75
2:GI:396:ASP:OD1	2:GI:397:LEU:N	2.19	0.75
14:K3:462:ARG:NH1	3:KH:402:GLY:O	2.19	0.75
2:KE:12:ALA:HB2	25:KE:501:GTP:H5''	1.68	0.75
2:LE:1:MET:SD	2:LE:2:ARG:N	2.56	0.75
3:OD:11:GLN:O	3:OD:15:GLN:NE2	2.20	0.75
2:PI:49:PHE:HB2	2:PI:53:PHE:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RG:286:LEU:O	2:RG:373:ARG:NH2	2.19	0.75
3:RJ:419:VAL:HG12	3:RJ:423:GLN:HE22	1.51	0.75
3:SF:247:ASN:HB3	3:SF:252:LYS:HG3	1.67	0.75
3:SH:322:SER:OG	3:SH:324:LYS:NZ	2.20	0.75
3:VH:137:HIS:O	3:VH:168:SER:HA	1.87	0.75
4:B8:309:MET:SD	4:B8:312:LYS:NZ	2.60	0.75
5:C3:340:PHE:HE1	5:C3:477:ARG:HE	1.31	0.75
2:DG:315:CYS:O	2:DG:351:PHE:HA	1.87	0.75
14:K3:361:ILE:HG12	14:K3:436:LEU:HD21	1.68	0.75
14:K4:19:PRO:HA	14:K4:22:ARG:HE	1.49	0.75
3:LF:347:ASN:OD1	2:LG:394:LYS:NZ	2.20	0.75
17:N3:68:LYS:HZ3	17:N3:70:ASP:H	1.30	0.75
3:ND:337:ASN:HB2	3:ND:340:TYR:HB2	1.69	0.75
3:OD:170:VAL:N	3:OD:202:ILE:O	2.19	0.75
3:PF:134:GLN:HB2	3:PF:167:PHE:HE1	1.52	0.75
3:SJ:1:MET:HG3	3:SJ:2:ARG:H	1.51	0.75
3:SJ:170:VAL:N	3:SJ:202:ILE:O	2.20	0.75
2:TG:9:VAL:HG11	2:TG:150:ALA:HB2	1.68	0.75
3:VD:372:THR:HG21	3:VD:426:GLN:HG2	1.69	0.75
2:VE:50:ASN:O	2:VE:64:ARG:NH1	2.20	0.75
24:YJ:61:THR:HA	24:YJ:64:ARG:HG2	1.68	0.75
2:AE:2:ARG:NH2	2:AE:250:VAL:O	2.19	0.74
2:EE:244:PHE:HB2	2:EE:356:ASN:HD21	1.50	0.74
3:EH:378:PHE:HB2	3:EH:415:MET:HE1	1.67	0.74
8:F7:209:ASP:HB2	8:F7:346:ARG:HH21	1.52	0.74
3:LF:245:GLN:OE1	2:LG:15:GLN:NE2	2.19	0.74
3:OH:322:SER:OG	3:OH:324:LYS:NZ	2.20	0.74
19:P2:35:ASP:OD2	19:P2:38:HIS:ND1	2.19	0.74
3:PH:273:LEU:H	3:PH:292:GLN:HE22	1.35	0.74
2:PI:54:SER:HB2	2:PI:62:VAL:HB	1.69	0.74
2:QI:54:SER:HB2	2:QI:62:VAL:HB	1.69	0.74
2:TG:213:CYS:HA	2:TG:217:LEU:HB2	1.67	0.74
3:TH:170:VAL:N	3:TH:202:ILE:O	2.20	0.74
2:VE:358:GLN:NE2	2:VE:359:PRO:O	2.19	0.74
3:AH:33:THR:O	3:AH:58:LYS:NZ	2.19	0.74
4:B3:75:LYS:HA	4:B3:179:LYS:HE3	1.67	0.74
3:DH:8:GLN:NE2	3:DH:13:GLY:O	2.20	0.74
2:EE:336:LYS:O	2:EE:339:ARG:NH2	2.21	0.74
3:KD:141:GLY:HA3	25:KD:501:GTP:H5''	1.69	0.74
2:KI:189:LEU:HA	2:KI:192:HIS:CE1	2.23	0.74
3:LF:390:ARG:O	3:LF:390:ARG:NH1	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:48:ASN:O	3:MF:62:ARG:NH2	2.20	0.74
19:P2:68:SER:HB3	19:P2:84:VAL:HG23	1.68	0.74
3:SF:378:PHE:HA	3:SF:381:ILE:HG12	1.68	0.74
2:SG:220:GLU:HG2	2:SG:221:ARG:HG2	1.69	0.74
2:UG:274:PRO:HG3	2:UG:374:ALA:HA	1.68	0.74
3:WH:137:HIS:O	3:WH:168:SER:HA	1.87	0.74
3:AH:142:GLY:N	25:AH:501:GTP:O3B	2.21	0.74
3:AH:170:VAL:HG11	3:AH:377:LEU:HD11	1.68	0.74
2:FG:240:ALA:HB1	2:FG:356:ASN:HD22	1.53	0.74
3:MF:152:ILE:HD12	3:MF:195:ASN:HB2	1.69	0.74
3:ND:15:GLN:HE21	3:ND:222:TYR:HD2	1.31	0.74
2:NE:295:CYS:O	2:NE:301:GLN:NE2	2.20	0.74
2:OG:49:PHE:HB2	2:OG:53:PHE:HB2	1.69	0.74
3:OH:11:GLN:O	3:OH:15:GLN:NE2	2.21	0.74
3:QF:73:MET:HA	3:QF:76:VAL:HG12	1.68	0.74
3:QH:83:GLN:O	3:QH:86:ARG:NH2	2.18	0.74
2:SG:212:ILE:HA	2:SG:215:ARG:HG2	1.69	0.74
2:BG:80:THR:HB	11:H3:9:LEU:HD11	1.67	0.74
2:CI:7:ILE:HD11	2:CI:122:ILE:HD11	1.68	0.74
2:DE:220:GLU:HG2	2:DE:221:ARG:HG2	1.69	0.74
3:ED:350:LYS:HZ2	2:EE:181:VAL:H	1.35	0.74
3:IF:344:TRP:CE2	2:IG:401:LYS:HD3	2.22	0.74
3:LH:261:PRO:O	3:LH:264:HIS:NE2	2.20	0.74
2:NE:68:VAL:HG12	2:NE:93:ILE:HB	1.69	0.74
3:NH:48:ASN:O	3:NH:62:ARG:NH2	2.20	0.74
3:OD:77:ARG:O	3:OD:77:ARG:NH1	2.20	0.74
2:OG:392:ASP:OD1	2:OG:393:HIS:N	2.20	0.74
3:OH:249:ASP:HB2	3:OH:252:LYS:HB2	1.67	0.74
3:QH:261:PRO:O	3:QH:264:HIS:NE2	2.20	0.74
3:RH:11:GLN:O	3:RH:15:GLN:NE2	2.19	0.74
2:CG:168:GLU:OE2	2:CG:198:SER:OG	2.06	0.74
3:EF:217:LEU:HB2	10:G5:401:ASP:HB3	1.68	0.74
3:EH:8:GLN:HE22	3:EH:63:ALA:HB1	1.51	0.74
8:F3:95:TRP:O	8:F3:99:ASN:ND2	2.20	0.74
2:IE:280:LYS:O	2:IE:284:GLU:HB2	1.86	0.74
16:M2:79:ILE:HG13	16:M2:80:TYR:H	1.53	0.74
3:OD:419:VAL:HG12	3:OD:423:GLN:HE22	1.52	0.74
2:OG:271:THR:HB	2:OG:377:MET:HB3	1.70	0.74
2:RG:9:VAL:HG11	2:RG:150:ALA:HB2	1.69	0.74
3:SF:170:VAL:N	3:SF:202:ILE:O	2.19	0.74
2:SI:236:SER:O	2:SI:243:ARG:NH2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:132:GLY:HA2	3:TH:162:ARG:HB3	1.68	0.74
2:UE:234:ILE:HD11	2:UE:272:TYR:HB2	1.69	0.74
3:AF:194:GLU:OE1	23:XJ:175:ARG:NH1	2.21	0.74
3:DD:249:ASP:HB3	3:DD:252:LYS:HG2	1.68	0.74
3:FF:346:PRO:HD2	2:FG:398:MET:HE1	1.70	0.74
2:FG:188:ILE:HG12	2:FG:421:ALA:HB1	1.69	0.74
3:KD:184:ASN:OD1	3:KD:398:TYR:OH	2.05	0.74
2:KG:315:CYS:O	2:KG:351:PHE:HA	1.88	0.74
3:KH:156:ARG:NH1	3:KH:195:ASN:O	2.20	0.74
2:LG:1:MET:N	2:LG:130:THR:OG1	2.21	0.74
2:PG:255:PHE:O	2:PG:259:LEU:HB2	1.86	0.74
3:PH:4:ILE:HD11	3:PH:131:GLN:HB2	1.70	0.74
3:QF:178:THR:HB	3:QF:181:GLU:HB2	1.67	0.74
3:SH:380:ARG:NH1	3:SH:384:GLN:OE1	2.21	0.74
3:SJ:54:ALA:HB3	3:SJ:58:LYS:HB3	1.70	0.74
2:VG:358:GLN:NE2	2:VG:359:PRO:O	2.20	0.74
24:YM:152:ILE:HD12	24:YM:155:SER:HB2	1.70	0.74
2:CI:346:TRP:HA	3:CJ:390:ARG:HH22	1.53	0.74
3:DD:60:VAL:HG23	3:DD:86:ARG:HH11	1.52	0.74
2:FE:370:LYS:HD2	10:G5:710:PRO:HD3	1.67	0.74
2:FE:370:LYS:HD3	10:G5:709:ALA:HA	1.69	0.74
10:G5:436:TYR:HE2	10:G5:507:LEU:HB3	1.52	0.74
3:GH:331:LEU:HD21	2:GI:177:VAL:HG22	1.70	0.74
2:LE:85:GLN:N	2:LE:85:GLN:OE1	2.18	0.74
2:MI:358:GLN:NE2	2:MI:359:PRO:O	2.20	0.74
3:NH:83:GLN:O	3:NH:86:ARG:NH2	2.21	0.74
3:OH:132:GLY:HA2	3:OH:162:ARG:HB3	1.70	0.74
2:PG:109:THR:O	2:PG:112:LYS:NZ	2.20	0.74
3:QH:211:CYS:HA	3:QH:215:LEU:HB2	1.67	0.74
2:RG:326:LYS:HZ1	3:RH:219:THR:HA	1.53	0.74
3:SH:309:ARG:NH1	3:SH:341:PHE:O	2.19	0.74
3:TF:211:CYS:HA	3:TF:215:LEU:HB2	1.68	0.74
2:UG:280:LYS:O	2:UG:284:GLU:HB2	1.88	0.74
3:BH:12:CYS:HA	25:BH:501:GTP:HN22	1.51	0.74
6:D7:332:GLN:HA	6:D8:78:ARG:NH1	2.03	0.74
2:EE:336:LYS:NZ	3:EF:174:LYS:O	2.20	0.74
8:F2:407:LEU:HB3	8:F3:289:THR:HA	1.68	0.74
2:IE:358:GLN:NE2	2:IE:359:PRO:O	2.19	0.74
2:JG:25:CYS:HB2	2:JG:30:ILE:HB	1.70	0.74
3:JH:12:CYS:HA	3:JH:15:GLN:HG2	1.68	0.74
3:KH:324:LYS:NZ	2:KI:222:PRO:O	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:172:SER:OG	3:LH:205:GLU:OE2	2.05	0.74
3:MF:19:LYS:NZ	3:MF:223:GLY:O	2.21	0.74
3:OD:246:LEU:HB2	3:OD:352:ALA:HB1	1.67	0.74
3:OF:4:ILE:HD11	3:OF:131:GLN:HB2	1.69	0.74
19:P1:208:VAL:HA	19:P1:224:THR:HA	1.70	0.74
2:RE:215:ARG:HH22	2:RE:300:ASN:HD21	1.36	0.74
3:RH:250:LEU:HD13	3:RH:253:LEU:HD12	1.69	0.74
25:UH:501:GTP:O3'	25:UH:501:GTP:O3G	2.05	0.74
22:XD:75:PHE:HA	22:XD:134:PHE:O	1.87	0.74
3:BH:319:GLY:HA2	3:BH:357:PRO:HG3	1.69	0.74
3:CF:360:GLY:HA3	9:G1:309:PRO:HB3	1.68	0.74
2:CG:1:MET:O	2:CG:133:GLN:NE2	2.21	0.74
2:DG:1:MET:SD	2:DG:2:ARG:N	2.61	0.74
3:EH:12:CYS:HA	3:EH:15:GLN:HG2	1.70	0.74
3:EH:423:GLN:O	3:EH:427:ASP:HB2	1.88	0.74
3:GF:323:MET:HE1	2:GG:224:TYR:CE1	2.23	0.74
3:NF:83:GLN:O	3:NF:86:ARG:NH2	2.19	0.74
2:OE:262:TYR:OH	3:OF:391:ARG:O	2.05	0.74
2:PG:318:LEU:O	2:PG:375:VAL:HA	1.87	0.74
2:QE:255:PHE:O	2:QE:259:LEU:HB2	1.88	0.74
2:QI:282:TYR:HB3	24:YM:131:ARG:HH21	1.52	0.74
2:UE:324:VAL:HG23	2:UE:327:ASP:H	1.53	0.74
2:UG:49:PHE:HB2	2:UG:53:PHE:HB2	1.70	0.74
3:CH:278:SER:HA	3:CH:281:TYR:HB2	1.70	0.74
6:D3:336:ILE:HG22	6:D3:340:LYS:HZ3	1.52	0.74
3:DD:135:LEU:HD21	3:DD:151:LEU:HD11	1.68	0.74
10:G5:460:ASP:OD2	10:G5:483:ARG:NH2	2.21	0.74
3:GD:344:TRP:HB3	2:GE:401:LYS:HE2	1.70	0.74
2:LI:207:GLU:HB2	2:LI:304:LYS:HZ1	1.51	0.74
19:P1:16:LEU:HA	19:P1:614:TRP:HA	1.70	0.74
2:SI:220:GLU:HG2	2:SI:221:ARG:HG2	1.69	0.74
3:UD:322:SER:OG	3:UD:324:LYS:NZ	2.19	0.74
2:UE:274:PRO:HG3	2:UE:374:ALA:HA	1.69	0.74
2:VE:338:LYS:HZ2	2:VE:340:THR:H	1.35	0.74
24:YI:53:MET:HA	24:YI:63:ARG:HH22	1.51	0.74
24:YN:9:ARG:O	24:YN:13:GLN:NE2	2.21	0.74
5:C8:202:ARG:HH12	5:C8:472:LYS:HD2	1.53	0.73
10:G5:75:ASP:O	10:G5:77:GLN:NE2	2.21	0.73
3:GH:152:ILE:HD12	3:GH:155:ILE:HD11	1.70	0.73
3:JD:4:ILE:HD11	3:JD:131:GLN:HB2	1.70	0.73
3:JH:379:LYS:O	3:JH:382:SER:OG	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L3:77:LYS:HG3	15:L3:78:PHE:H	1.53	0.73
2:LE:15:GLN:OE1	2:LE:15:GLN:N	2.19	0.73
2:MG:91:GLN:HB3	2:MG:121:ARG:HH21	1.53	0.73
2:PG:272:TYR:HE1	2:PG:374:ALA:HB1	1.53	0.73
2:PI:79:ARG:O	2:PI:84:ARG:NH1	2.16	0.73
3:SJ:163:ILE:HD11	3:SJ:251:ARG:HB2	1.69	0.73
2:TG:54:SER:HB2	2:TG:62:VAL:HB	1.70	0.73
2:WE:326:LYS:HZ1	3:WF:219:THR:HA	1.52	0.73
3:CF:372:THR:HG21	3:CF:426:GLN:HG2	1.70	0.73
2:EE:15:GLN:HB2	25:EE:501:GTP:HN1	1.51	0.73
2:KE:88:HIS:HD1	2:KE:91:GLN:H	1.34	0.73
3:SH:2:ARG:HB3	3:SH:131:GLN:NE2	2.04	0.73
2:TI:172:TYR:HB2	2:TI:203:MET:HB3	1.69	0.73
2:UE:358:GLN:NE2	2:UE:359:PRO:O	2.20	0.73
3:UH:198:GLU:HA	3:UH:266:PHE:HE2	1.52	0.73
2:VE:25:CYS:HB2	2:VE:30:ILE:HB	1.70	0.73
1:A2:162:ARG:HH22	9:G1:199:ILE:HA	1.53	0.73
6:D2:78:ARG:HH22	6:D3:331:ASP:HB3	1.54	0.73
3:HD:275:SER:O	3:HD:279:GLN:NE2	2.22	0.73
2:KI:115:VAL:HG21	2:KI:156:ARG:HD3	1.68	0.73
3:MH:246:LEU:HD12	3:MH:352:ALA:HB1	1.69	0.73
3:OF:137:HIS:O	3:OF:168:SER:HA	1.88	0.73
19:P2:176:THR:HG22	19:P2:185:TRP:CH2	2.18	0.73
3:SH:246:LEU:HB2	3:SH:352:ALA:HB1	1.71	0.73
3:SJ:52:ASN:OD1	3:SJ:62:ARG:NH1	2.21	0.73
3:TJ:311:LEU:HD23	3:TJ:342:VAL:HG11	1.70	0.73
2:WI:338:LYS:HZ2	2:WI:340:THR:H	1.33	0.73
2:BI:358:GLN:NE2	2:BI:359:PRO:O	2.22	0.73
5:C2:281:VAL:HA	5:C3:398:THR:HG21	1.70	0.73
3:DD:156:ARG:NH1	3:DD:195:ASN:O	2.21	0.73
3:GH:163:ILE:HD11	3:GH:251:ARG:HB2	1.70	0.73
2:OE:9:VAL:HG11	2:OE:150:ALA:HB2	1.71	0.73
2:PE:1:MET:SD	2:PE:2:ARG:N	2.60	0.73
2:QG:338:LYS:HZ2	2:QG:340:THR:H	1.37	0.73
3:TH:198:GLU:HA	3:TH:266:PHE:HE2	1.52	0.73
3:TH:286:VAL:HG11	3:TH:325:GLU:HB2	1.70	0.73
3:UD:48:ASN:O	3:UD:62:ARG:NH2	2.20	0.73
3:WF:324:LYS:NZ	2:WG:222:PRO:O	2.19	0.73
2:WG:54:SER:HB2	2:WG:62:VAL:HB	1.69	0.73
2:AE:386:GLU:OE1	2:AE:386:GLU:N	2.21	0.73
3:AF:48:ASN:O	3:AF:62:ARG:NH2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:357:PRO:HD2	11:H4:4:THR:HG21	1.71	0.73
3:CJ:156:ARG:NH1	3:CJ:195:ASN:O	2.21	0.73
3:EF:12:CYS:HB3	25:EF:501:GTP:H5'	1.69	0.73
3:IH:70:PRO:HA	3:IH:73:MET:HE2	1.69	0.73
15:L2:218:ILE:HD11	15:L2:224:LYS:HG3	1.71	0.73
19:P2:278:SER:H	19:P2:279:PRO:HD2	1.53	0.73
2:QE:236:SER:O	2:QE:243:ARG:NH2	2.22	0.73
3:RH:419:VAL:O	3:RH:423:GLN:NE2	2.19	0.73
2:RI:70:LEU:HD13	2:RI:95:GLY:HA3	1.69	0.73
3:TH:295:ASP:HB2	3:TH:298:ASN:HB2	1.70	0.73
1:A2:109:LEU:HB2	1:A2:143:ILE:HG21	1.71	0.73
3:AH:225:LEU:HA	3:AH:228:LEU:HD12	1.69	0.73
4:B7:45:LEU:HD22	4:B8:355:LYS:HG3	1.70	0.73
5:C7:274:LEU:HB3	5:C8:399:ARG:HH21	1.51	0.73
3:CJ:16:ILE:HD13	3:CJ:226:ASN:ND2	2.04	0.73
3:CJ:211:CYS:HA	3:CJ:215:LEU:HB2	1.71	0.73
6:D2:88:THR:HG21	6:D3:391:LEU:HD21	1.71	0.73
8:F6:361:LEU:HD13	8:F6:451:LEU:HD22	1.70	0.73
9:G2:516:MET:O	9:G2:520:ALA:HA	1.89	0.73
2:GG:301:GLN:HG3	2:GG:303:VAL:H	1.54	0.73
14:K2:403:ARG:HG3	14:K3:243:GLN:HE22	1.53	0.73
2:KG:1:MET:O	2:KG:133:GLN:NE2	2.22	0.73
3:LH:423:GLN:OE1	3:LH:426:GLN:NE2	2.21	0.73
3:OF:316:VAL:HG22	3:OF:352:ALA:HB3	1.67	0.73
19:P2:437:GLY:HA2	19:P2:463:SER:HA	1.70	0.73
3:RJ:48:ASN:O	3:RJ:62:ARG:NH2	2.22	0.73
2:UE:390:ARG:HA	2:UE:393:HIS:CD2	2.24	0.73
2:WG:1:MET:O	2:WG:133:GLN:NE2	2.21	0.73
2:WG:25:CYS:HB2	2:WG:30:ILE:HB	1.69	0.73
3:AF:52:ASN:OD1	3:AF:62:ARG:NH1	2.22	0.73
2:AG:85:GLN:N	2:AG:85:GLN:OE1	2.21	0.73
3:AH:99:ASN:HB2	3:AH:142:GLY:HA3	1.70	0.73
4:B7:100:GLU:OE1	6:D8:161:ARG:NH1	2.22	0.73
3:BH:204:ASN:HA	3:BH:207:LEU:HD13	1.71	0.73
2:DE:101:ASN:HB3	2:DE:182:VAL:HG11	1.70	0.73
3:JH:172:SER:OG	3:JH:205:GLU:OE2	2.06	0.73
3:OH:405:GLU:HA	3:OH:408:PHE:HD2	1.52	0.73
3:PF:143:THR:HG22	3:PF:147:MET:HE2	1.68	0.73
2:QE:168:GLU:OE2	2:QE:198:SER:OG	2.07	0.73
3:UF:274:THR:O	3:UF:276:ARG:NH2	2.22	0.73
22:XE:30:ARG:HB3	22:XE:56:THR:HB	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:251:ASP:N	2:AG:254:GLU:OE2	2.18	0.73
3:BH:64:VAL:HG21	3:BH:120:VAL:HG12	1.71	0.73
2:CG:338:LYS:HZ2	2:CG:340:THR:H	1.36	0.73
3:CJ:39:ASP:OD1	3:CJ:43:GLN:NE2	2.22	0.73
2:DE:144:GLY:N	25:DE:501:GTP:O2B	2.21	0.73
3:DF:275:SER:O	3:DF:279:GLN:NE2	2.22	0.73
2:EE:74:VAL:HA	2:EE:77:GLU:HG2	1.69	0.73
3:EF:330:MET:HG3	3:EF:349:VAL:HG11	1.69	0.73
9:G2:39:VAL:HB	9:G2:41:ARG:HH22	1.53	0.73
2:IE:71:GLU:OE2	2:IE:145:THR:OG1	2.05	0.73
3:IH:39:ASP:OD1	3:IH:43:GLN:NE2	2.21	0.73
3:LD:324:LYS:NZ	2:LE:222:PRO:O	2.20	0.73
2:LI:85:GLN:OE1	2:LI:85:GLN:N	2.20	0.73
2:MI:273:ALA:HB2	2:MI:295:CYS:HB3	1.69	0.73
2:PE:273:ALA:HB2	2:PE:295:CYS:HB3	1.69	0.73
2:QI:5:ILE:O	2:QI:135:PHE:HA	1.88	0.73
3:RF:198:GLU:HA	3:RF:266:PHE:HE2	1.52	0.73
3:SF:155:ILE:HA	3:SF:158:GLU:HB2	1.70	0.73
3:TF:170:VAL:N	3:TF:202:ILE:O	2.17	0.73
3:TF:309:ARG:NH2	3:TF:426:GLN:O	2.22	0.73
2:TG:358:GLN:NE2	2:TG:359:PRO:O	2.22	0.73
3:TH:273:LEU:H	3:TH:292:GLN:HE22	1.37	0.73
2:UE:346:TRP:O	3:UF:391:ARG:NH2	2.20	0.73
3:VF:267:MET:HG2	3:VF:301:ALA:HB3	1.69	0.73
2:VG:33:ASP:O	2:VG:60:LYS:NZ	2.21	0.73
2:WE:54:SER:HB2	2:WE:62:VAL:HB	1.70	0.73
24:YM:41:ARG:HH12	24:YM:44:SER:H	1.35	0.73
2:BG:81:GLY:O	2:BG:84:ARG:NH1	2.22	0.73
6:D7:316:GLN:HG2	6:D7:317:LYS:H	1.53	0.73
3:EF:4:ILE:HD11	3:EF:131:GLN:HB2	1.70	0.73
8:F2:387:TYR:OH	8:F3:273:THR:N	2.17	0.73
3:FF:3:GLU:HG2	3:FF:130:LEU:HD13	1.69	0.73
9:G1:42:ARG:NH2	9:G1:54:TYR:HB3	2.02	0.73
10:G5:561:GLU:OE1	10:G5:561:GLU:N	2.22	0.73
2:HG:75:VAL:HG23	2:HG:92:LEU:HD12	1.69	0.73
2:HI:1:MET:N	2:HI:130:THR:OG1	2.22	0.73
3:IH:286:VAL:HG21	3:IH:325:GLU:HG3	1.70	0.73
15:L2:163:GLU:HA	15:L2:167:LYS:HE2	1.71	0.73
3:OD:316:VAL:HG22	3:OD:352:ALA:HB3	1.70	0.73
19:P2:16:LEU:HA	19:P2:614:TRP:HA	1.70	0.73
19:P2:443:VAL:O	19:P2:454:GLU:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:22:GLU:HG2	2:UG:83:TYR:HE2	1.54	0.73
3:VH:8:GLN:NE2	3:VH:13:GLY:O	2.21	0.73
2:WG:338:LYS:HZ2	2:WG:340:THR:H	1.37	0.73
22:XD:92:GLN:HE21	22:XD:100:ARG:HB3	1.54	0.73
24:YI:32:CYS:HA	24:YI:56:TYR:HE1	1.53	0.73
2:AE:326:LYS:HD3	3:AF:220:PRO:HD2	1.70	0.73
2:AG:283:HIS:CE1	2:MG:89:PRO:HD2	2.24	0.73
2:AI:108:TYR:O	2:AI:112:LYS:NZ	2.22	0.73
5:C8:164:LEU:HA	5:C8:167:MET:SD	2.28	0.73
3:ED:282:ARG:NH2	3:ED:292:GLN:OE1	2.20	0.73
3:GF:5:VAL:HG23	3:GF:130:LEU:HD11	1.71	0.73
2:HG:120:ASP:OD1	2:HG:123:ARG:NH1	2.22	0.73
3:JD:42:LEU:HD22	3:JD:243:PRO:HG3	1.71	0.73
2:KE:56:THR:HG21	2:LE:285:GLN:HB2	1.68	0.73
2:LE:205:ASP:OD2	2:LE:304:LYS:NZ	2.22	0.73
19:P1:570:LYS:HG2	19:P1:582:VAL:HG22	1.71	0.73
2:PE:208:ALA:H	2:PE:304:LYS:HZ1	1.37	0.73
3:UF:322:SER:OG	3:UF:324:LYS:NZ	2.21	0.73
23:XJ:182:ASN:ND2	23:XJ:231:MET:O	2.21	0.73
3:AH:322:SER:OG	3:AH:324:LYS:NZ	2.22	0.72
3:BH:260:PHE:HB2	3:BH:263:LEU:HD23	1.71	0.72
5:C8:322:ARG:NH1	5:C8:323:GLU:OE2	2.21	0.72
3:DH:218:THR:OG1	9:G2:281:ARG:NH2	2.22	0.72
8:F6:175:ARG:NH1	8:F6:179:CYS:SG	2.62	0.72
3:FD:216:LYS:HB2	3:FD:276:ARG:HH11	1.53	0.72
2:GG:91:GLN:HB3	2:GG:121:ARG:HH21	1.54	0.72
2:IG:2:ARG:O	2:IG:51:THR:OG1	2.05	0.72
3:LH:249:ASP:O	3:LH:252:LYS:HB2	1.89	0.72
2:OI:185:TYR:HD2	2:OI:418:PHE:HE2	1.37	0.72
3:SH:19:LYS:NZ	3:SH:223:GLY:O	2.21	0.72
3:TJ:77:ARG:NH1	3:TJ:77:ARG:O	2.22	0.72
3:AF:226:ASN:HA	3:AF:229:VAL:HG22	1.70	0.72
2:AG:2:ARG:HG2	2:AG:242:LEU:HD23	1.72	0.72
2:AI:264:ARG:O	2:AI:266:HIS:ND1	2.22	0.72
3:DF:347:ASN:OD1	2:DG:394:LYS:NZ	2.20	0.72
3:FD:156:ARG:NH1	3:FD:194:GLU:O	2.22	0.72
3:GF:319:GLY:HA2	3:GF:357:PRO:HG3	1.71	0.72
2:GI:88:HIS:HB3	2:GI:91:GLN:HB3	1.71	0.72
2:HE:75:VAL:HG23	2:HE:92:LEU:HD12	1.71	0.72
3:IH:406:MET:O	3:IH:409:THR:OG1	2.05	0.72
3:JD:284:LEU:HD21	3:JD:363:MET:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:350:LYS:HZ1	2:JG:181:VAL:HG13	1.53	0.72
2:JG:66:VAL:HA	2:JG:91:GLN:HE21	1.53	0.72
3:KD:48:ASN:O	3:KD:62:ARG:NH2	2.22	0.72
3:LF:8:GLN:HE21	3:LF:65:LEU:HB2	1.54	0.72
3:LH:324:LYS:NZ	2:LI:222:PRO:O	2.20	0.72
2:NE:349:THR:HG23	3:NF:179:VAL:HG12	1.71	0.72
3:RJ:207:LEU:HB3	3:RJ:225:LEU:HD22	1.71	0.72
3:SH:21:TRP:HA	3:SH:24:ILE:HD12	1.70	0.72
3:SJ:334:GLN:HA	3:SJ:341:PHE:HE2	1.52	0.72
3:TJ:52:ASN:OD1	3:TJ:62:ARG:NH1	2.22	0.72
3:TJ:424:GLN:HA	3:TJ:427:ASP:HB3	1.70	0.72
3:UH:51:TYR:HB3	3:UH:59:TYR:HB3	1.70	0.72
3:VD:131:GLN:HB3	3:VD:163:ILE:HD12	1.71	0.72
3:AH:187:LEU:HD21	3:AH:408:PHE:HE1	1.54	0.72
3:EF:282:ARG:NH2	3:EF:292:GLN:OE1	2.22	0.72
2:FE:15:GLN:HG2	25:FE:501:GTP:HN1	1.55	0.72
2:FE:68:VAL:HG12	2:FE:93:ILE:HB	1.71	0.72
2:GG:15:GLN:HG2	25:GG:501:GTP:HN1	1.53	0.72
3:JD:19:LYS:NZ	3:JD:223:GLY:O	2.22	0.72
14:K3:385:ARG:HH22	2:KI:130:THR:HA	1.52	0.72
3:MH:261:PRO:O	3:MH:264:HIS:NE2	2.23	0.72
3:ND:249:ASP:HB3	3:ND:252:LYS:HG2	1.71	0.72
3:QF:324:LYS:NZ	2:QG:222:PRO:O	2.19	0.72
3:SF:11:GLN:HB2	25:SF:501:GTP:H3'	1.71	0.72
2:SG:1:MET:SD	2:SG:2:ARG:N	2.62	0.72
3:TH:11:GLN:O	3:TH:15:GLN:NE2	2.23	0.72
2:AI:3:GLU:H	2:AI:133:GLN:HE22	1.37	0.72
4:B7:270:ARG:NH2	5:C3:152:ASP:OD1	2.22	0.72
3:BF:324:LYS:NZ	2:BG:222:PRO:O	2.22	0.72
3:EF:247:ASN:HB3	3:EF:252:LYS:HG2	1.72	0.72
3:FF:132:GLY:HA3	3:FF:163:ILE:O	1.89	0.72
3:FH:326:VAL:O	3:FH:329:GLN:NE2	2.22	0.72
2:GE:172:TYR:HB2	2:GE:203:MET:HB3	1.71	0.72
3:GH:324:LYS:NZ	2:GI:222:PRO:O	2.17	0.72
3:JF:58:LYS:HE3	3:KF:281:TYR:HA	1.71	0.72
2:JG:236:SER:O	2:JG:243:ARG:NH2	2.21	0.72
3:KH:376:GLU:N	3:KH:376:GLU:OE1	2.21	0.72
2:KI:325:PRO:O	2:KI:329:ASN:ND2	2.22	0.72
15:L3:190:ASP:O	15:L3:193:ARG:HG2	1.88	0.72
3:NH:278:SER:HA	3:NH:281:TYR:HB2	1.71	0.72
3:OD:163:ILE:HD11	3:OD:251:ARG:HG3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Q1:1468:LEU:HB3	20:Q1:1504:LYS:HB2	1.69	0.72
3:SF:4:ILE:HD11	3:SF:131:GLN:HB2	1.70	0.72
2:VG:119:LEU:HD11	2:VG:156:ARG:HD3	1.69	0.72
3:WF:137:HIS:O	3:WF:168:SER:HA	1.89	0.72
23:XK:145:ASN:HB3	23:XK:148:ILE:HD12	1.71	0.72
3:CF:324:LYS:HE2	2:CG:222:PRO:HG2	1.69	0.72
9:G1:477:SER:OG	9:G1:483:ILE:N	2.22	0.72
10:G5:488:LYS:HD2	10:G5:489:PRO:HD2	1.69	0.72
3:IF:261:PRO:O	3:IF:264:HIS:NE2	2.23	0.72
2:LI:2:ARG:NH2	2:LI:250:VAL:O	2.22	0.72
16:M3:95:ARG:NH1	16:M3:98:HIS:O	2.21	0.72
3:PF:11:GLN:O	25:PF:501:GTP:N2	2.22	0.72
2:RI:32:PRO:O	2:RI:85:GLN:NE2	2.22	0.72
3:SH:426:GLN:NE2	3:SH:427:ASP:OD2	2.22	0.72
3:TH:137:HIS:O	3:TH:168:SER:HA	1.88	0.72
2:TI:5:ILE:HD13	2:TI:64:ARG:HB3	1.69	0.72
3:VF:252:LYS:NZ	2:VG:101:ASN:OD1	2.23	0.72
22:XC:86:TYR:HA	22:XC:107:ASN:HD21	1.55	0.72
24:YM:57:CYS:O	24:YM:63:ARG:NH1	2.22	0.72
3:AF:139:LEU:N	3:AF:168:SER:OG	2.20	0.72
3:CF:262:ARG:NH2	3:CF:425:TYR:OH	2.22	0.72
6:D3:276:VAL:HG22	6:D3:279:ARG:HH22	1.55	0.72
7:E2:138:GLN:HB3	7:E2:140:ARG:HH12	1.54	0.72
10:G5:49:TYR:OH	3:MH:79:GLY:O	2.07	0.72
3:GF:211:CYS:SG	3:GF:220:PRO:HG3	2.30	0.72
3:HF:19:LYS:NZ	3:HF:223:GLY:O	2.22	0.72
2:JG:338:LYS:HZ2	2:JG:340:THR:H	1.35	0.72
2:NI:32:PRO:O	2:NI:85:GLN:NE2	2.22	0.72
2:NI:53:PHE:HB3	2:NI:61:HIS:HB3	1.71	0.72
3:PH:258:VAL:HG13	3:PH:263:LEU:HB2	1.71	0.72
3:VF:173:PRO:O	3:VF:380:ARG:NH2	2.22	0.72
3:WF:4:ILE:HB	3:WF:50:TYR:HE1	1.54	0.72
6:D8:363:ARG:HH21	6:D8:369:CYS:H	1.36	0.72
7:E2:132:PRO:O	7:E2:133:ARG:HD3	1.90	0.72
3:GD:54:ALA:HA	3:HD:283:ALA:HB2	1.70	0.72
3:GH:207:LEU:HB3	3:GH:225:LEU:HD22	1.70	0.72
2:II:338:LYS:HZ2	2:II:340:THR:H	1.36	0.72
3:JD:131:GLN:HB3	3:JD:163:ILE:HD12	1.70	0.72
2:JG:85:GLN:OE1	2:JG:85:GLN:N	2.20	0.72
2:LG:207:GLU:HB2	2:LG:304:LYS:HZ1	1.54	0.72
2:LI:12:ALA:HB2	25:LI:501:GTP:H5''	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:M3:54:THR:HA	16:M3:92:TYR:H	1.54	0.72
2:NI:274:PRO:HG3	2:NI:374:ALA:HA	1.71	0.72
2:OG:189:LEU:HA	2:OG:192:HIS:CE1	2.25	0.72
24:YK:130:ALA:HA	24:YK:134:TYR:HB2	1.71	0.72
2:AE:88:HIS:CE1	2:AE:121:ARG:HH22	2.08	0.72
2:BE:399:TYR:HE1	2:BE:418:PHE:HB3	1.55	0.72
3:CH:167:PHE:HZ	3:CH:229:VAL:HG22	1.55	0.72
9:G2:95:LYS:HB3	9:G2:126:LEU:HD12	1.72	0.72
2:HG:46:ASP:OD1	2:HG:50:ASN:ND2	2.23	0.72
2:HG:286:LEU:HD12	2:HG:291:ILE:HG21	1.72	0.72
2:IG:220:GLU:HG2	2:IG:221:ARG:HG2	1.72	0.72
2:II:11:GLN:NE2	25:II:501:GTP:O3A	2.23	0.72
2:II:234:ILE:HD11	2:II:272:TYR:HB2	1.71	0.72
3:JF:12:CYS:SG	3:JF:13:GLY:N	2.63	0.72
3:KD:12:CYS:HA	3:KD:15:GLN:HG2	1.71	0.72
3:QH:4:ILE:HD11	3:QH:131:GLN:HB2	1.69	0.72
3:RJ:84:ILE:O	3:RJ:86:ARG:NH1	2.22	0.72
2:UG:53:PHE:HB3	2:UG:61:HIS:HB3	1.71	0.72
3:VF:48:ASN:O	3:VF:62:ARG:NH2	2.20	0.72
3:VF:293:MET:CE	3:VF:367:PHE:HB2	2.20	0.72
2:AG:32:PRO:O	2:AG:85:GLN:NE2	2.22	0.72
5:C8:403:ARG:HB3	5:C8:406:ARG:HH21	1.54	0.72
3:ED:324:LYS:HE2	2:EE:222:PRO:HD2	1.71	0.72
3:FD:77:ARG:NH1	3:FD:77:ARG:O	2.22	0.72
3:GF:379:LYS:O	3:GF:382:SER:OG	2.08	0.72
3:KH:142:GLY:N	25:KH:501:GTP:O3B	2.22	0.72
2:KI:102:ASN:HD21	2:KI:411:GLU:HG2	1.54	0.72
2:MG:224:TYR:HE2	25:MG:501:GTP:C6	2.08	0.72
17:N2:76:ALA:HB1	17:N2:95:HIS:HA	1.71	0.72
17:N2:99:ILE:HG13	17:N2:100:GLU:H	1.52	0.72
19:P1:599:ASN:HB2	19:P1:620:SER:HB3	1.70	0.72
19:P2:28:ASN:O	19:P2:31:LYS:NZ	2.23	0.72
2:PG:326:LYS:HE2	3:PH:220:PRO:HD2	1.72	0.72
3:RJ:173:PRO:O	3:RJ:380:ARG:NH2	2.23	0.72
2:UE:263:PRO:O	2:UE:264:ARG:HD3	1.90	0.72
2:UG:185:TYR:HA	2:UG:395:PHE:HE2	1.53	0.72
2:VE:115:VAL:HG21	2:VE:156:ARG:HD3	1.70	0.72
3:VH:54:ALA:HA	3:WH:283:ALA:HB2	1.71	0.72
3:WH:385:PHE:HZ	3:WH:408:PHE:HB3	1.53	0.72
2:WI:53:PHE:O	2:WI:64:ARG:NH1	2.22	0.72
3:AH:379:LYS:O	3:AH:382:SER:OG	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:8:HIS:CE1	2:AI:21:TRP:HH2	2.08	0.72
2:AI:89:PRO:HD3	2:BI:283:HIS:HE1	1.55	0.72
3:CH:319:GLY:HA2	3:CH:357:PRO:HG3	1.72	0.72
8:F2:450:ARG:O	8:F2:453:HIS:ND1	2.22	0.72
9:G1:80:ALA:HB3	9:G1:84:GLU:H	1.55	0.72
2:GI:229:ARG:HH12	2:GI:233:GLN:HB3	1.55	0.72
3:HH:4:ILE:HD11	3:HH:131:GLN:HB2	1.71	0.72
3:KF:390:ARG:NH1	3:KF:390:ARG:O	2.22	0.72
3:LD:247:ASN:ND2	25:LE:501:GTP:O1A	2.22	0.72
2:MG:85:GLN:OE1	2:MG:85:GLN:N	2.21	0.72
3:MH:101:TRP:HB2	3:MH:184:ASN:HD22	1.55	0.72
17:N2:159:ARG:NE	17:N2:164:GLY:O	2.22	0.72
18:O1:102:LEU:HA	18:O1:109:LEU:HD23	1.71	0.72
2:OI:338:LYS:HZ2	2:OI:340:THR:H	1.38	0.72
19:P2:203:GLN:NE2	2:WG:245:ASP:OD2	2.23	0.72
19:P2:205:LYS:O	19:P2:206:ARG:NH1	2.21	0.72
3:PH:278:SER:HA	3:PH:281:TYR:HB2	1.71	0.72
20:Q1:1509:ASP:OD1	20:Q1:1512:ARG:NH2	2.23	0.72
2:RE:438:ASP:HA	3:RF:391:ARG:HH12	1.54	0.72
3:SF:322:SER:HB3	2:SG:221:ARG:HH21	1.54	0.72
3:TH:309:ARG:HE	3:TH:426:GLN:HE21	1.38	0.72
2:WI:287:SER:OG	2:WI:290:GLU:OE1	2.08	0.72
3:CJ:304:ASP:O	3:CJ:307:HIS:ND1	2.21	0.71
2:EG:172:TYR:HB2	2:EG:203:MET:HB3	1.71	0.71
2:FE:15:GLN:HG2	25:FE:501:GTP:N1	2.05	0.71
10:G5:286:LYS:NZ	10:G5:337:ASP:OD2	2.22	0.71
3:GH:6:HIS:HE1	3:GH:8:GLN:HE21	1.38	0.71
11:H3:311:GLU:HA	11:H3:315:ARG:HG3	1.71	0.71
3:IH:374:ILE:HG23	3:IH:377:LEU:HD12	1.71	0.71
14:K4:144:GLN:HB2	14:K4:234:LEU:HD22	1.72	0.71
2:PG:25:CYS:HB2	2:PG:30:ILE:HB	1.70	0.71
2:TI:32:PRO:O	2:TI:85:GLN:NE2	2.22	0.71
2:UG:120:ASP:OD1	2:UG:123:ARG:NH1	2.22	0.71
3:VD:46:ARG:HH22	2:VE:73:THR:HG23	1.53	0.71
2:VE:400:ALA:O	2:VE:402:ARG:NH1	2.23	0.71
3:FH:250:LEU:HD13	3:FH:253:LEU:HD12	1.72	0.71
14:K4:263:SER:HB3	14:K4:275:THR:HG21	1.72	0.71
3:LH:170:VAL:HG11	3:LH:377:LEU:HD23	1.72	0.71
2:LI:67:PHE:HB2	2:LI:92:LEU:HD13	1.71	0.71
2:ME:81:GLY:O	2:ME:84:ARG:NH1	2.23	0.71
2:ME:325:PRO:O	2:ME:329:ASN:ND2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:174:LYS:HG3	3:ND:175:VAL:HG12	1.72	0.71
3:ND:306:ARG:HH12	3:ND:340:TYR:HB3	1.53	0.71
3:OF:345:ILE:HD11	2:OG:181:VAL:HG11	1.72	0.71
19:P2:442:ARG:HG2	19:P2:456:ALA:HA	1.72	0.71
2:QG:209:ILE:HG21	2:QG:227:LEU:HG	1.72	0.71
2:RI:1:MET:O	2:RI:133:GLN:NE2	2.23	0.71
2:SE:108:TYR:O	2:SE:112:LYS:NZ	2.19	0.71
3:TH:421:GLU:HA	3:TH:424:GLN:HE21	1.54	0.71
2:WE:11:GLN:HB2	25:WE:501:GTP:O1B	1.88	0.71
3:WH:258:VAL:HB	2:WI:407:TRP:HZ2	1.55	0.71
22:XC:106:SER:HB2	22:XC:109:GLN:HG2	1.72	0.71
24:YL:116:LYS:O	24:YL:119:HIS:ND1	2.23	0.71
2:AG:402:ARG:CZ	23:XJ:234:THR:HG23	2.20	0.71
2:FE:255:PHE:HZ	2:FE:318:LEU:HD11	1.56	0.71
9:G2:474:LYS:NZ	9:G2:489:ASP:OD2	2.23	0.71
3:GF:372:THR:HG21	3:GF:426:GLN:HB2	1.72	0.71
3:HH:247:ASN:HB3	3:HH:252:LYS:HG2	1.71	0.71
3:KF:139:LEU:N	3:KF:168:SER:OG	2.24	0.71
3:LF:117:LEU:HB3	3:LF:121:ARG:HH12	1.55	0.71
2:OE:30:ILE:HA	2:OE:36:MET:HE1	1.71	0.71
3:PH:282:ARG:NH2	3:PH:292:GLN:OE1	2.23	0.71
3:QF:289:LEU:HD21	3:QF:363:MET:HB3	1.71	0.71
3:QH:11:GLN:O	3:QH:15:GLN:NE2	2.23	0.71
2:RG:270:ALA:HA	2:RG:377:MET:O	1.90	0.71
2:TG:12:ALA:HB2	25:TG:501:GTP:H5''	1.71	0.71
3:UD:67:ASP:OD2	3:UD:72:THR:OG1	2.07	0.71
3:BF:387:ALA:O	3:BF:390:ARG:NH1	2.21	0.71
3:CF:347:ASN:HB3	2:CG:178:SER:HB3	1.72	0.71
3:CJ:12:CYS:SG	3:CJ:13:GLY:N	2.63	0.71
9:G1:169:ASN:OD1	9:G1:170:ARG:N	2.23	0.71
3:GF:2:ARG:NH1	2:GG:96:LYS:O	2.23	0.71
2:HI:88:HIS:HB3	2:HI:91:GLN:HB2	1.73	0.71
3:KF:8:GLN:NE2	3:KF:13:GLY:O	2.24	0.71
2:KG:311:LYS:HE3	2:KG:344:VAL:HG12	1.71	0.71
2:NE:318:LEU:O	2:NE:375:VAL:HA	1.90	0.71
3:NF:261:PRO:O	3:NF:264:HIS:NE2	2.22	0.71
2:NI:75:VAL:HG23	2:NI:92:LEU:HD12	1.71	0.71
3:RH:420:SER:HB2	3:RH:424:GLN:HE22	1.55	0.71
3:UF:83:GLN:O	3:UF:86:ARG:NH2	2.23	0.71
2:VG:262:TYR:HE1	3:VH:393:ALA:HA	1.54	0.71
3:BF:48:ASN:HD21	11:H3:23:PHE:HB2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:306:ASP:OD1	2:BG:308:ARG:NH1	2.23	0.71
5:C7:126:ARG:NH1	5:C7:130:ASP:OD2	2.23	0.71
2:CG:90:GLU:OE1	2:DE:280:LYS:NZ	2.21	0.71
2:IG:358:GLN:NE2	2:IG:359:PRO:O	2.24	0.71
3:JF:39:ASP:OD1	3:JF:43:GLN:NE2	2.24	0.71
2:LG:76:ASP:OD1	2:LG:79:ARG:NH1	2.23	0.71
2:ME:358:GLN:NE2	2:ME:359:PRO:O	2.23	0.71
2:NG:338:LYS:HZ2	2:NG:340:THR:H	1.35	0.71
19:P2:422:ALA:HB1	19:P2:467:ILE:HG13	1.72	0.71
2:QE:1:MET:SD	2:QE:2:ARG:N	2.63	0.71
3:TJ:63:ALA:O	3:TJ:89:ASN:ND2	2.23	0.71
2:UE:140:SER:HB2	2:UE:171:ILE:HG22	1.70	0.71
22:XC:75:PHE:HB2	22:XC:168:SER:O	1.91	0.71
22:XC:86:TYR:O	22:XC:159:ASN:ND2	2.22	0.71
22:XE:90:GLU:HB3	22:XE:104:ARG:HD3	1.72	0.71
3:ED:374:ILE:HA	3:ED:377:LEU:HD13	1.72	0.71
8:F7:450:ARG:O	8:F7:453:HIS:ND1	2.23	0.71
11:H4:290:PRO:HG2	11:H4:315:ARG:HD2	1.71	0.71
2:NE:236:SER:O	2:NE:243:ARG:NH2	2.23	0.71
2:PG:98:ASP:O	2:PG:105:ARG:NH2	2.23	0.71
20:Q2:1415:MET:SD	20:Q2:1418:MET:N	2.63	0.71
2:RE:390:ARG:HA	2:RE:393:HIS:CD2	2.26	0.71
3:RF:250:LEU:HD13	3:RF:253:LEU:HD12	1.73	0.71
2:RI:208:ALA:H	2:RI:304:LYS:HZ1	1.37	0.71
2:UG:434:GLU:OE2	3:UH:391:ARG:NH2	2.22	0.71
3:UH:11:GLN:HE21	25:UH:501:GTP:H3'	1.54	0.71
2:VG:25:CYS:HB2	2:VG:30:ILE:HB	1.72	0.71
22:XC:170:ARG:NH1	22:XC:171:LEU:O	2.23	0.71
24:YL:44:SER:HB3	24:YL:111:SER:HB3	1.71	0.71
3:AH:330:MET:HG3	3:AH:349:VAL:HG11	1.70	0.71
2:BG:208:ALA:H	2:BG:304:LYS:HZ1	1.36	0.71
3:BH:273:LEU:H	3:BH:292:GLN:HE22	1.39	0.71
6:D3:210:SER:OG	7:E2:142:ARG:NH2	2.23	0.71
3:EF:255:VAL:HA	2:EG:407:TRP:CZ3	2.26	0.71
8:F6:98:SER:HA	8:F6:101:LEU:HD12	1.73	0.71
3:GF:12:CYS:SG	3:GF:13:GLY:N	2.64	0.71
2:IE:205:ASP:OD1	2:IE:304:LYS:NZ	2.22	0.71
3:KD:163:ILE:HD11	3:KD:251:ARG:HH21	1.56	0.71
2:NE:261:PRO:HA	3:NF:394:PHE:HE1	1.56	0.71
3:OF:415:MET:O	3:OF:419:VAL:HG23	1.91	0.71
3:PH:53:GLU:OE2	24:YM:59:ASN:ND2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:247:ASN:HB3	3:RF:252:LYS:HG2	1.72	0.71
2:SG:192:HIS:HA	2:SG:195:LEU:HD23	1.72	0.71
3:SH:163:ILE:HD11	3:SH:251:ARG:HD3	1.73	0.71
2:TI:88:HIS:HA	2:UG:283:HIS:HE1	1.55	0.71
3:WF:19:LYS:NZ	3:WF:223:GLY:O	2.23	0.71
2:BI:188:ILE:HG12	2:BI:421:ALA:HB1	1.72	0.71
3:CH:253:LEU:O	3:CH:257:MET:HB2	1.91	0.71
3:DD:252:LYS:HD3	2:DE:100:ALA:HA	1.72	0.71
2:DG:271:THR:HB	2:DG:377:MET:HB2	1.72	0.71
10:G5:153:ASN:ND2	10:G5:184:LYS:O	2.23	0.71
2:GG:14:VAL:HG21	2:GG:74:VAL:HG21	1.72	0.71
2:LG:236:SER:O	2:LG:243:ARG:NH2	2.19	0.71
3:MH:316:VAL:HG22	3:MH:352:ALA:HB3	1.72	0.71
18:O1:100:PRO:HA	18:O1:103:LEU:HB2	1.72	0.71
19:P2:561:VAL:HG12	19:P2:571:VAL:HG22	1.73	0.71
20:Q1:1489:GLU:HA	20:Q1:1492:HIS:HD2	1.56	0.71
2:SG:75:VAL:HG22	2:SG:79:ARG:HH21	1.56	0.71
3:SH:217:LEU:HD12	3:SH:219:THR:H	1.56	0.71
3:SJ:101:TRP:HB2	3:SJ:184:ASN:HD22	1.56	0.71
3:UH:64:VAL:HA	3:UH:89:ASN:HD21	1.56	0.71
2:AI:220:GLU:HG2	2:AI:221:ARG:HG2	1.72	0.71
2:CI:205:ASP:OD2	2:CI:304:LYS:NZ	2.23	0.71
2:GI:388:TRP:HB3	2:GI:425:LEU:HD11	1.72	0.71
2:JG:101:ASN:HA	2:JG:144:GLY:HA2	1.73	0.71
3:LF:141:GLY:HA2	25:LF:501:GTP:H5'	1.73	0.71
2:MG:192:HIS:HA	2:MG:195:LEU:HD23	1.72	0.71
3:NF:48:ASN:O	3:NF:62:ARG:NH2	2.21	0.71
3:NF:103:LYS:HG2	3:NF:108:GLU:HG2	1.73	0.71
2:NG:349:THR:HG23	3:NH:179:VAL:HG12	1.72	0.71
3:NH:137:HIS:O	3:NH:168:SER:HA	1.91	0.71
2:NI:370:LYS:O	2:NI:372:GLN:NE2	2.24	0.71
3:OF:73:MET:HA	3:OF:76:VAL:HG22	1.72	0.71
20:Q1:1452:ARG:HH12	20:Q1:1456:ARG:HB2	1.55	0.71
2:RG:216:ASN:ND2	2:RG:275:VAL:O	2.24	0.71
3:VD:21:TRP:HA	3:VD:24:ILE:HD12	1.71	0.71
2:VE:88:HIS:CE1	2:VE:121:ARG:HH22	2.08	0.71
2:VG:287:SER:OG	2:VG:290:GLU:OE1	2.08	0.71
23:XK:178:LEU:HD23	23:XK:181:LEU:HD12	1.72	0.71
2:AI:144:GLY:N	25:AI:501:GTP:O2B	2.23	0.71
4:B8:304:LEU:HA	4:B8:352:MET:HE1	1.73	0.71
13:J3:167:MET:HB3	13:J3:174:LEU:HD21	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:267:ILE:HG23	14:K3:301:LYS:HA	1.73	0.71
3:NF:337:ASN:HB2	3:NF:340:TYR:HB2	1.72	0.71
3:PH:2:ARG:NH1	3:PH:130:LEU:O	2.24	0.71
3:QH:165:ASN:HA	3:QH:198:GLU:HB3	1.73	0.71
2:QI:46:ASP:OD1	2:QI:50:ASN:ND2	2.24	0.71
2:UE:99:ALA:H	2:UE:145:THR:HG22	1.54	0.71
2:UG:173:PRO:O	2:UG:390:ARG:NH2	2.24	0.71
3:WF:226:ASN:HA	3:WF:229:VAL:HG12	1.72	0.71
3:WH:358:PRO:HB2	3:WH:361:LEU:HD21	1.73	0.71
23:XL:166:VAL:HB	23:XL:219:TYR:HE2	1.55	0.71
3:CF:230:SER:HA	3:CF:233:MET:SD	2.30	0.70
2:EE:40:LYS:HD2	10:G5:716:LYS:HG3	1.72	0.70
3:EH:135:LEU:HD21	3:EH:151:LEU:HD11	1.73	0.70
2:IG:207:GLU:HB2	2:IG:304:LYS:HZ1	1.54	0.70
2:JE:133:GLN:HB3	2:JE:252:LEU:HD21	1.73	0.70
15:L3:28:THR:HG22	15:L3:32:ARG:HG3	1.71	0.70
2:NI:138:PHE:HE1	2:NI:169:PHE:HD2	1.39	0.70
19:P2:139:VAL:O	19:P2:148:ILE:N	2.24	0.70
2:PE:274:PRO:HG3	2:PE:374:ALA:HA	1.72	0.70
2:SI:255:PHE:O	2:SI:259:LEU:HB2	1.91	0.70
2:TG:54:SER:H	2:TG:62:VAL:H	1.39	0.70
3:TH:375:GLN:HE21	3:TH:422:TYR:HB3	1.54	0.70
3:UF:324:LYS:NZ	2:UG:222:PRO:O	2.16	0.70
2:WE:26:LEU:HD11	2:WE:364:PRO:HD2	1.73	0.70
5:C7:116:ASN:OD1	5:C7:119:ARG:NH2	2.23	0.70
3:JF:3:GLU:HB2	3:JF:62:ARG:NH2	2.06	0.70
3:LF:252:LYS:HD2	2:LG:100:ALA:HA	1.72	0.70
3:NF:268:PRO:HD2	3:NF:301:ALA:HB2	1.73	0.70
3:QF:14:ASN:ND2	3:QF:67:ASP:OD2	2.23	0.70
2:RE:209:ILE:HG21	2:RE:227:LEU:HG	1.73	0.70
2:RI:287:SER:OG	2:RI:290:GLU:OE1	2.07	0.70
2:TI:9:VAL:HG11	2:TI:150:ALA:HB2	1.71	0.70
2:TI:306:ASP:OD2	2:TI:309:HIS:ND1	2.24	0.70
2:UE:54:SER:HB2	2:UE:62:VAL:HB	1.72	0.70
3:VD:278:SER:O	3:VD:282:ARG:HB2	1.91	0.70
2:WG:310:GLY:O	2:WG:342:GLN:NE2	2.24	0.70
3:WH:101:TRP:HB2	3:WH:184:ASN:HD22	1.55	0.70
2:AE:32:PRO:O	2:AE:85:GLN:NE2	2.23	0.70
3:BF:39:ASP:OD1	3:BF:43:GLN:NE2	2.23	0.70
25:BF:501:GTP:O3G	25:BF:501:GTP:O3'	2.08	0.70
3:BH:48:ASN:HD21	11:H4:23:PHE:HB2	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F3:129:GLN:O	8:F3:133:GLN:NE2	2.23	0.70
10:G5:524:ASN:OD1	10:G5:525:ALA:N	2.20	0.70
3:GF:419:VAL:O	3:GF:423:GLN:NE2	2.23	0.70
13:J2:176:PRO:O	13:J2:180:GLU:N	2.23	0.70
3:LH:344:TRP:HD1	2:LI:401:LYS:HD3	1.56	0.70
2:LI:274:PRO:HG3	2:LI:374:ALA:HA	1.73	0.70
2:NE:189:LEU:HA	2:NE:192:HIS:CE1	2.26	0.70
2:NG:358:GLN:NE2	2:NG:359:PRO:O	2.23	0.70
3:NH:170:VAL:N	3:NH:202:ILE:O	2.22	0.70
2:OE:48:SER:O	2:OE:243:ARG:NH1	2.23	0.70
2:OI:84:ARG:NH2	24:YN:124:HIS:O	2.24	0.70
2:RE:287:SER:OG	2:RE:290:GLU:OE1	2.08	0.70
2:RI:262:TYR:OH	3:RJ:391:ARG:O	2.09	0.70
3:SH:30:ILE:HG13	3:SH:36:TYR:HD1	1.56	0.70
22:XD:113:ARG:HE	22:XD:114:VAL:H	1.39	0.70
24:YK:128:ASP:HA	24:YK:131:ARG:HB2	1.72	0.70
3:BH:266:PHE:HB3	3:BH:368:ILE:HD11	1.73	0.70
2:EE:234:ILE:HD11	2:EE:272:TYR:HB2	1.72	0.70
2:EG:144:GLY:N	25:EG:501:GTP:O2B	2.23	0.70
3:FD:347:ASN:O	3:FD:350:LYS:NZ	2.23	0.70
2:GI:101:ASN:HA	2:GI:144:GLY:HA2	1.72	0.70
2:GI:168:GLU:OE2	2:GI:198:SER:OG	2.10	0.70
3:HD:211:CYS:HA	3:HD:215:LEU:HB2	1.72	0.70
2:MG:98:ASP:O	2:MG:105:ARG:NH2	2.25	0.70
2:PG:189:LEU:HA	2:PG:192:HIS:CE1	2.27	0.70
3:SJ:48:ASN:O	3:SJ:62:ARG:NH2	2.21	0.70
2:UG:228:ASN:HA	2:UG:231:ILE:HG12	1.73	0.70
3:VD:256:ASN:HB3	3:VD:350:LYS:HE2	1.73	0.70
3:WF:135:LEU:HD21	3:WF:151:LEU:HD11	1.73	0.70
23:XL:88:ASP:OD1	23:XL:89:TYR:N	2.24	0.70
1:A3:241:LEU:HD11	12:I3:48:TYR:CE2	2.26	0.70
3:AF:266:PHE:HB3	3:AF:368:ILE:HD11	1.74	0.70
5:C7:197:GLU:O	5:C7:201:HIS:HB2	1.91	0.70
2:CG:264:ARG:O	2:CG:266:HIS:ND1	2.24	0.70
3:CH:48:ASN:O	3:CH:62:ARG:NH2	2.25	0.70
3:DF:60:VAL:HG23	3:DF:86:ARG:HH11	1.56	0.70
3:FD:141:GLY:HA3	25:FD:501:GTP:H5''	1.74	0.70
3:FH:51:TYR:HB3	3:FH:59:TYR:HB3	1.74	0.70
3:GF:77:ARG:HD3	3:GF:90:PHE:HE2	1.55	0.70
2:IE:98:ASP:OD1	2:IE:99:ALA:N	2.24	0.70
3:JF:139:LEU:HD21	3:JF:170:VAL:HG22	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:402:GLN:O	14:K3:405:VAL:N	2.16	0.70
14:K3:403:ARG:HD2	14:K4:244:ALA:HB3	1.72	0.70
15:L3:50:GLY:O	3:MH:306:ARG:NH1	2.25	0.70
3:LH:246:LEU:HD12	3:LH:352:ALA:HB1	1.74	0.70
3:OD:309:ARG:NH2	3:OD:426:GLN:O	2.24	0.70
19:P2:470:LYS:HD2	19:P2:475:GLU:HB2	1.74	0.70
2:PE:269:LEU:HD21	2:PE:302:MET:H	1.55	0.70
3:PH:316:VAL:HG22	3:PH:352:ALA:HB3	1.73	0.70
2:SE:319:TYR:HA	2:SE:374:ALA:O	1.92	0.70
3:SH:324:LYS:HE2	2:SI:222:PRO:HG2	1.74	0.70
2:SI:185:TYR:OH	2:SI:403:ALA:O	2.09	0.70
3:UD:289:LEU:HD21	3:UD:363:MET:HB3	1.74	0.70
2:WE:88:HIS:HD2	2:WE:91:GLN:H	1.40	0.70
3:WH:139:LEU:HD21	3:WH:170:VAL:HG22	1.72	0.70
5:C8:198:CYS:SG	5:C8:472:LYS:NZ	2.63	0.70
2:CG:235:VAL:HA	2:CG:238:ILE:HG12	1.73	0.70
3:DD:375:GLN:HE21	3:DD:422:TYR:HB3	1.55	0.70
2:DG:262:TYR:OH	3:DH:391:ARG:O	2.08	0.70
3:EF:19:LYS:NZ	3:EF:223:GLY:O	2.25	0.70
8:F6:239:GLN:NE2	8:F6:243:ASN:OD1	2.25	0.70
3:FH:139:LEU:HD11	3:FH:171:PRO:HD3	1.72	0.70
14:K3:265:VAL:HG22	14:K3:271:PRO:HB3	1.73	0.70
15:L2:197:LEU:HD22	15:L2:241:ILE:HG23	1.74	0.70
2:MI:127:ASP:OD1	2:MI:128:LEU:N	2.25	0.70
3:OD:324:LYS:HE2	2:OE:222:PRO:HD2	1.72	0.70
19:P2:222:LEU:HG	19:P2:230:LEU:HB3	1.73	0.70
2:QG:167:LEU:HG	2:QG:252:LEU:HD23	1.73	0.70
3:UD:316:VAL:HG22	3:UD:352:ALA:HB3	1.73	0.70
2:VG:115:VAL:HA	2:VG:118:VAL:HG22	1.74	0.70
2:WG:358:GLN:NE2	2:WG:359:PRO:O	2.25	0.70
2:WI:390:ARG:HA	2:WI:393:HIS:CD2	2.26	0.70
2:AE:416:GLY:HA3	22:XC:108:TYR:CZ	2.26	0.70
4:B8:389:LYS:HA	5:C7:337:TRP:CH2	2.27	0.70
3:CF:309:ARG:NH2	3:CF:426:GLN:O	2.24	0.70
3:CH:247:ASN:HB3	3:CH:252:LYS:HG2	1.74	0.70
3:DD:194:GLU:OE1	3:DD:195:ASN:ND2	2.24	0.70
3:GD:28:HIS:ND1	3:GD:43:GLN:OE1	2.20	0.70
3:KD:16:ILE:HD13	3:KD:226:ASN:HD22	1.55	0.70
3:KF:2:ARG:HH22	2:KG:98:ASP:N	1.89	0.70
15:L3:136:LEU:HA	15:L3:139:SER:HB3	1.74	0.70
3:NH:378:PHE:CE1	3:NH:419:VAL:HG22	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:24:TYR:O	2:OE:28:HIS:ND1	2.25	0.70
19:P2:116:ALA:HB1	19:P2:164:VAL:HG12	1.72	0.70
2:RG:66:VAL:HA	2:RG:91:GLN:HE21	1.57	0.70
2:RI:311:LYS:HG2	2:RI:342:GLN:HB3	1.74	0.70
3:TF:48:ASN:O	3:TF:62:ARG:NH2	2.19	0.70
3:WF:83:GLN:O	3:WF:86:ARG:NH2	2.23	0.70
2:CG:85:GLN:N	2:CG:85:GLN:OE1	2.23	0.70
2:CI:264:ARG:O	2:CI:266:HIS:ND1	2.25	0.70
2:EE:224:TYR:HB3	2:EE:227:LEU:HG	1.74	0.70
3:HH:111:GLU:N	3:HH:111:GLU:OE1	2.25	0.70
3:JH:316:VAL:HG22	3:JH:352:ALA:HB3	1.74	0.70
14:K3:186:PRO:HG2	14:K3:452:ILE:HG22	1.74	0.70
3:LF:152:ILE:HD13	3:LF:155:ILE:HD11	1.73	0.70
2:OE:339:ARG:O	2:OE:342:GLN:NE2	2.25	0.70
19:P1:277:LYS:HB3	19:P1:279:PRO:HD2	1.72	0.70
2:RI:88:HIS:CE1	2:RI:121:ARG:HH22	2.10	0.70
3:SF:278:SER:HA	3:SF:281:TYR:HB2	1.73	0.70
4:B7:192:LEU:O	4:B8:317:ARG:NH2	2.25	0.70
8:F2:408:CYS:O	8:F2:413:GLN:NE2	2.24	0.70
2:FE:406:HIS:HA	2:FE:409:VAL:HG22	1.73	0.70
11:H3:13:GLU:HB2	11:H3:14:PRO:CD	2.22	0.70
3:HD:415:MET:SD	3:HD:416:ASN:ND2	2.65	0.70
2:HG:262:TYR:HE1	3:HH:393:ALA:HA	1.55	0.70
3:JD:142:GLY:N	25:JD:501:GTP:O3B	2.25	0.70
3:JH:178:THR:HB	3:JH:181:GLU:HB2	1.72	0.70
3:KD:324:LYS:NZ	2:KE:222:PRO:O	2.25	0.70
3:KD:407:GLU:OE1	3:KD:407:GLU:N	2.23	0.70
2:LI:234:ILE:HD11	2:LI:272:TYR:HB2	1.74	0.70
3:MH:331:LEU:O	3:MH:335:ASN:ND2	2.24	0.70
3:Nf:173:PRO:O	3:Nf:380:ARG:NH2	2.25	0.70
3:OH:199:THR:HB	3:OH:264:HIS:O	1.91	0.70
2:PE:269:LEU:HD13	2:PE:303:VAL:HG23	1.74	0.70
2:PI:288:VAL:HG21	2:PI:328:VAL:HA	1.71	0.70
3:SF:345:ILE:HD11	2:SG:181:VAL:HG11	1.74	0.70
3:TH:269:GLY:N	3:TH:367:PHE:O	2.25	0.70
3:UF:278:SER:HA	3:UF:281:TYR:HB2	1.73	0.70
3:UF:375:GLN:HA	3:UF:378:PHE:CZ	2.26	0.70
2:UG:127:ASP:OD1	2:UG:128:LEU:N	2.24	0.70
3:AF:406:MET:O	3:AF:409:THR:OG1	2.09	0.70
2:CG:262:TYR:OH	3:CH:391:ARG:O	2.09	0.70
3:EF:372:THR:HB	3:EF:375:GLN:HE22	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:334:GLN:O	3:FF:338:SER:OG	2.10	0.70
2:GE:220:GLU:HG2	2:GE:221:ARG:HG2	1.74	0.70
3:HD:274:THR:HG21	3:HD:279:GLN:HG3	1.74	0.70
3:HF:11:GLN:O	3:HF:15:GLN:HG3	1.91	0.70
2:HG:32:PRO:O	2:HG:85:GLN:NE2	2.23	0.70
3:JD:286:VAL:HG21	3:JD:325:GLU:HG3	1.74	0.70
3:JH:406:MET:SD	3:JH:407:GLU:HG3	2.32	0.70
3:LF:48:ASN:O	3:LF:62:ARG:NH2	2.20	0.70
2:ME:207:GLU:HB2	2:ME:304:LYS:HZ1	1.57	0.70
3:MH:324:LYS:HE2	2:MI:222:PRO:HG2	1.74	0.70
2:NI:30:ILE:HG13	2:NI:53:PHE:HE2	1.56	0.70
20:Q1:1402:SER:HA	20:Q1:1406:LEU:HB3	1.74	0.70
2:RG:209:ILE:HG21	2:RG:227:LEU:HG	1.74	0.70
2:RI:312:TYR:CE2	2:RI:341:ILE:HD11	2.27	0.70
3:RJ:419:VAL:O	3:RJ:423:GLN:NE2	2.25	0.70
2:SG:30:ILE:HA	2:SG:36:MET:HE1	1.74	0.70
24:YK:84:GLU:HG3	24:YK:101:LYS:HZ1	1.55	0.70
3:BF:19:LYS:NZ	3:BF:223:GLY:O	2.24	0.69
3:BH:379:LYS:O	3:BH:382:SER:OG	2.04	0.69
2:EG:213:CYS:O	2:EG:219:ILE:N	2.25	0.69
8:F7:397:ALA:O	8:F7:400:THR:OG1	2.09	0.69
3:FF:260:PHE:HB2	3:FF:263:LEU:HD23	1.74	0.69
10:G5:78:VAL:HA	10:G5:106:PHE:O	1.91	0.69
3:GF:48:ASN:O	3:GF:62:ARG:NH2	2.22	0.69
3:GF:375:GLN:HA	3:GF:378:PHE:CZ	2.26	0.69
2:IE:390:ARG:HA	2:IE:393:HIS:CD2	2.27	0.69
3:IF:156:ARG:NH1	3:IF:195:ASN:O	2.25	0.69
3:KF:7:LEU:HB2	3:KF:135:LEU:HG	1.74	0.69
3:MF:11:GLN:OE1	25:MF:501:GTP:N2	2.25	0.69
2:MG:47:ASP:O	2:MG:50:ASN:N	2.16	0.69
3:NH:246:LEU:HB2	3:NH:352:ALA:HB1	1.74	0.69
3:NH:267:MET:HE3	3:NH:301:ALA:HB3	1.74	0.69
19:P1:172:GLU:HG2	19:P1:187:LEU:HB3	1.72	0.69
3:PH:316:VAL:HA	3:PH:352:ALA:O	1.91	0.69
20:Q1:1429:ALA:HB2	20:Q1:1499:LYS:HG2	1.73	0.69
2:QE:274:PRO:HG3	2:QE:374:ALA:HA	1.73	0.69
3:QH:12:CYS:HA	25:QH:501:GTP:HN22	1.57	0.69
3:QH:316:VAL:HG22	3:QH:352:ALA:HB3	1.74	0.69
2:RG:295:CYS:HB2	2:RG:377:MET:HG2	1.73	0.69
3:RJ:326:VAL:HG21	3:RJ:351:THR:HG21	1.75	0.69
2:TG:208:ALA:H	2:TG:304:LYS:HZ1	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:224:TYR:HA	2:UG:227:LEU:HB2	1.74	0.69
2:WE:1:MET:SD	2:WE:2:ARG:N	2.66	0.69
2:WG:127:ASP:OD1	2:WG:128:LEU:N	2.25	0.69
2:WI:207:GLU:HB2	2:WI:304:LYS:HZ1	1.56	0.69
23:XL:163:SER:O	23:XL:219:TYR:OH	2.08	0.69
1:A2:336:ARG:HA	1:A2:339:LYS:HD3	1.72	0.69
8:F7:431:LYS:HA	8:F7:434:LEU:HD12	1.73	0.69
10:G5:653:LEU:HD12	10:G5:654:PRO:HD2	1.75	0.69
2:HG:187:SER:O	2:HG:190:THR:OG1	2.09	0.69
2:IE:102:ASN:HD21	2:IE:411:GLU:HG2	1.55	0.69
3:IF:141:GLY:HA3	25:IF:501:GTP:H5''	1.75	0.69
2:KG:30:ILE:HD13	2:KG:36:MET:HE3	1.74	0.69
2:LE:262:TYR:HE1	3:LF:393:ALA:HA	1.57	0.69
2:MG:306:ASP:OD2	2:MG:309:HIS:ND1	2.25	0.69
18:O1:37:GLY:H	20:Q1:1414:LEU:HD12	1.56	0.69
3:OF:12:CYS:HB3	25:OF:501:GTP:O4'	1.92	0.69
3:OH:163:ILE:HG12	3:OH:251:ARG:HE	1.58	0.69
19:P2:511:HIS:HB2	19:P2:516:GLN:O	1.93	0.69
3:QF:137:HIS:O	3:QF:168:SER:HA	1.92	0.69
3:QH:375:GLN:HA	3:QH:378:PHE:CZ	2.27	0.69
3:SJ:198:GLU:HA	3:SJ:266:PHE:HE2	1.56	0.69
3:TF:101:TRP:HZ2	3:TF:149:THR:HG21	1.56	0.69
2:WG:322:ASP:OD2	2:WG:373:ARG:NH2	2.25	0.69
3:BH:344:TRP:HD1	2:BI:401:LYS:HD3	1.55	0.69
3:BH:345:ILE:HD12	3:BH:346:PRO:HD2	1.74	0.69
3:DF:36:TYR:HE2	3:DF:44:LEU:HD12	1.57	0.69
8:F6:89:ARG:HB2	8:F7:206:LEU:HD23	1.74	0.69
2:GG:88:HIS:CD2	2:HG:283:HIS:HE1	2.10	0.69
25:GH:502:GTP:HN1	2:GI:15:GLN:HG2	1.55	0.69
14:K2:463:LEU:O	14:K2:467:GLN:NE2	2.24	0.69
14:K3:433:LEU:HB3	14:K3:437:ARG:HH12	1.55	0.69
14:K4:269:ARG:NH1	14:K4:272:THR:OG1	2.25	0.69
3:NH:141:GLY:HA3	25:NH:501:GTP:H5''	1.74	0.69
2:OG:42:ILE:HG21	2:OG:59:GLY:HA2	1.74	0.69
2:OI:2:ARG:HG2	2:OI:242:LEU:HD23	1.73	0.69
2:QG:1:MET:N	2:QG:130:THR:OG1	2.24	0.69
3:RH:19:LYS:NZ	3:RH:223:GLY:O	2.25	0.69
3:RH:309:ARG:NH1	3:RH:339:SER:O	2.24	0.69
2:SG:358:GLN:NE2	2:SG:359:PRO:O	2.25	0.69
2:WG:5:ILE:HG21	2:WG:122:ILE:HD11	1.73	0.69
3:CH:289:LEU:HD21	3:CH:363:MET:HG3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DG:2:ARG:NH2	2:DG:250:VAL:O	2.25	0.69
3:EF:286:VAL:HG21	3:EF:325:GLU:HG3	1.73	0.69
3:FD:217:LEU:O	9:G1:457:ARG:NH2	2.25	0.69
9:G1:270:ASP:O	9:G1:296:ARG:NH2	2.24	0.69
2:GG:388:TRP:HB3	2:GG:425:LEU:HD11	1.75	0.69
2:IG:285:GLN:HE22	2:IG:287:SER:HB3	1.57	0.69
2:IG:346:TRP:HE1	3:IH:391:ARG:HH11	1.37	0.69
2:II:213:CYS:HB3	2:II:222:PRO:HG3	1.74	0.69
3:JH:374:ILE:HA	3:JH:377:LEU:HD13	1.73	0.69
14:K3:144:GLN:HB2	14:K3:234:LEU:HD22	1.74	0.69
2:KI:168:GLU:OE2	2:KI:198:SER:OG	2.07	0.69
2:NE:99:ALA:HB3	2:NE:145:THR:HA	1.74	0.69
2:OI:208:ALA:H	2:OI:304:LYS:HZ1	1.40	0.69
19:P1:90:LYS:HG2	19:P1:111:LYS:HG2	1.75	0.69
19:P1:387:LYS:HD2	19:P1:403:PRO:HG3	1.75	0.69
3:QH:137:HIS:CE1	3:QH:168:SER:HB2	2.27	0.69
2:RE:53:PHE:HB3	2:RE:61:HIS:HB3	1.75	0.69
3:RF:178:THR:HB	3:RF:181:GLU:HB2	1.75	0.69
2:RI:352:LYS:NZ	3:RJ:178:THR:OG1	2.25	0.69
2:SI:8:HIS:HE1	2:SI:65:ALA:HB1	1.57	0.69
2:UG:19:ALA:HB3	2:UG:228:ASN:ND2	2.07	0.69
2:UG:35:GLN:NE2	2:UG:58:ALA:O	2.24	0.69
3:VD:170:VAL:N	3:VD:202:ILE:O	2.25	0.69
1:A2:61:LYS:HD3	4:B3:281:TRP:CE2	2.28	0.69
2:BG:90:GLU:OE1	2:CG:280:LYS:NZ	2.25	0.69
2:BG:215:ARG:NH1	2:BG:299:ALA:O	2.26	0.69
3:BH:261:PRO:O	3:BH:264:HIS:NE2	2.24	0.69
2:BI:144:GLY:N	25:BI:501:GTP:O2B	2.23	0.69
5:C7:121:ARG:HD2	5:C8:378:THR:HG21	1.74	0.69
6:D8:357:LEU:HB3	6:D9:247:PHE:CE2	2.27	0.69
6:D9:73:TYR:O	6:D9:77:GLN:NE2	2.26	0.69
2:DG:1:MET:O	2:DG:133:GLN:NE2	2.26	0.69
3:ED:260:PHE:HB2	3:ED:263:LEU:HD23	1.73	0.69
2:EE:1:MET:O	2:EE:133:GLN:NE2	2.24	0.69
2:EG:85:GLN:N	2:EG:85:GLN:OE1	2.24	0.69
3:EH:422:TYR:HA	3:EH:425:TYR:CE2	2.27	0.69
9:G2:457:ARG:HD2	9:G2:458:ASN:HB2	1.75	0.69
2:GG:68:VAL:HG12	2:GG:93:ILE:HB	1.74	0.69
3:GH:211:CYS:HA	3:GH:215:LEU:HB2	1.75	0.69
2:IG:21:TRP:CZ2	2:IG:65:ALA:HB2	2.27	0.69
2:KG:101:ASN:HA	2:KG:144:GLY:HA2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:42:LEU:HD11	3:LH:356:ILE:HG13	1.73	0.69
3:MH:271:ALA:HB1	3:MH:272:PRO:HD2	1.73	0.69
2:NG:216:ASN:ND2	2:NG:275:VAL:O	2.26	0.69
3:NH:170:VAL:HG11	3:NH:377:LEU:HD11	1.75	0.69
18:O2:6:SER:HB3	18:O2:28:THR:HB	1.73	0.69
19:P1:272:LEU:HG	19:P1:274:ILE:HD11	1.74	0.69
20:Q2:1401:GLN:O	20:Q2:1406:LEU:N	2.17	0.69
2:RE:262:TYR:OH	3:RF:391:ARG:O	2.09	0.69
3:SJ:405:GLU:HA	3:SJ:408:PHE:HD2	1.56	0.69
2:TI:235:VAL:HA	2:TI:238:ILE:HG12	1.74	0.69
2:WE:217:LEU:HD21	2:WE:275:VAL:HB	1.72	0.69
2:WE:287:SER:OG	2:WE:290:GLU:OE1	2.09	0.69
2:WG:131:GLY:O	23:XK:71:HIS:NE2	2.25	0.69
24:YL:18:PHE:O	24:YL:22:GLN:HB3	1.93	0.69
2:AE:85:GLN:OE1	2:AE:85:GLN:N	2.24	0.69
2:BE:101:ASN:HA	2:BE:144:GLY:HA2	1.74	0.69
3:CF:282:ARG:NH2	3:CF:292:GLN:OE1	2.25	0.69
3:CH:46:ARG:HB2	3:CH:241:ARG:HG3	1.75	0.69
3:EH:214:THR:O	3:EH:276:ARG:NH1	2.25	0.69
9:G2:438:PHE:CE2	9:G2:451:ILE:HB	2.23	0.69
3:GH:249:ASP:O	3:GH:252:LYS:HB3	1.91	0.69
2:II:311:LYS:HE3	2:II:344:VAL:HG12	1.75	0.69
2:JE:220:GLU:HG2	2:JE:221:ARG:HG2	1.74	0.69
15:L2:126:VAL:HG11	2:LG:114:ILE:HD13	1.75	0.69
2:MG:101:ASN:HB3	2:MG:182:VAL:HG11	1.73	0.69
17:N2:70:ASP:O	17:N2:74:ARG:HD3	1.92	0.69
3:OF:77:ARG:NH1	3:OF:77:ARG:O	2.25	0.69
19:P1:432:ILE:O	19:P1:443:VAL:HA	1.92	0.69
3:QF:375:GLN:HA	3:QF:378:PHE:CZ	2.28	0.69
3:RH:4:ILE:HD11	3:RH:131:GLN:HB2	1.72	0.69
2:SI:208:ALA:H	2:SI:304:LYS:HZ1	1.41	0.69
3:SJ:11:GLN:O	3:SJ:15:GLN:NE2	2.26	0.69
2:TI:220:GLU:HG2	2:TI:221:ARG:HG2	1.72	0.69
24:YN:116:LYS:NZ	24:YN:117:TYR:O	2.24	0.69
1:A2:187:VAL:HG21	5:C2:266:ARG:HH21	1.58	0.69
2:AE:332:ILE:HA	2:AE:335:ILE:HD12	1.73	0.69
5:C4:414:ASP:OD1	5:C4:415:MET:N	2.26	0.69
3:CH:289:LEU:O	3:CH:293:MET:HB2	1.93	0.69
3:EH:156:ARG:NH1	3:EH:195:ASN:O	2.26	0.69
2:FG:417:GLU:OE1	2:FG:417:GLU:N	2.17	0.69
10:G5:155:ASN:ND2	10:G5:187:PRO:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:GH:501:GTP:O3'	25:GH:501:GTP:O3G	2.10	0.69
2:JE:11:GLN:NE2	25:JE:501:GTP:O3A	2.25	0.69
3:KH:271:ALA:HB1	3:KH:272:PRO:HD2	1.73	0.69
2:KI:239:THR:OG1	2:KI:243:ARG:NH1	2.26	0.69
2:LE:207:GLU:HB2	2:LE:304:LYS:HZ1	1.58	0.69
3:LF:155:ILE:HA	3:LF:158:GLU:HB2	1.74	0.69
2:NG:235:VAL:HA	2:NG:238:ILE:HG12	1.73	0.69
2:OG:54:SER:HB2	2:OG:62:VAL:HB	1.73	0.69
19:P1:90:LYS:HA	19:P1:111:LYS:HA	1.73	0.69
3:PF:119:VAL:HA	3:PF:122:LYS:HE2	1.75	0.69
20:Q2:1434:PRO:HA	20:Q2:1437:TYR:HB2	1.74	0.69
3:RF:4:ILE:HD11	3:RF:131:GLN:HB2	1.75	0.69
3:RF:54:ALA:HB3	3:RF:58:LYS:HB3	1.75	0.69
2:SE:254:GLU:OE1	2:SE:254:GLU:N	2.25	0.69
2:SG:144:GLY:N	25:SG:501:GTP:O2B	2.25	0.69
3:SJ:226:ASN:HA	3:SJ:229:VAL:HG22	1.73	0.69
3:SJ:406:MET:O	3:SJ:409:THR:OG1	2.08	0.69
2:WI:209:ILE:HG23	2:WI:230:LEU:HD21	1.75	0.69
22:XE:22:LEU:HA	22:XE:25:TRP:HD1	1.58	0.69
5:C3:213:ASP:OD2	5:C3:350:ARG:NH1	2.26	0.69
2:CG:89:PRO:HD2	2:DE:280:LYS:HZ3	1.56	0.69
2:CI:288:VAL:HG21	2:CI:327:ASP:HB2	1.74	0.69
3:CJ:60:VAL:HG23	3:CJ:86:ARG:HH11	1.58	0.69
3:DD:276:ARG:NE	9:G1:284:GLY:O	2.23	0.69
3:DF:1:MET:SD	3:DF:2:ARG:N	2.66	0.69
3:EF:322:SER:OG	3:EF:324:LYS:NZ	2.26	0.69
9:G2:474:LYS:HB3	9:G2:477:SER:HB2	1.73	0.69
10:G5:470:GLU:OE1	10:G5:475:ASN:ND2	2.26	0.69
3:GD:83:GLN:O	3:GD:86:ARG:NH2	2.26	0.69
2:GE:30:ILE:HD13	2:GE:36:MET:HE3	1.75	0.69
2:GE:205:ASP:OD2	2:GE:304:LYS:NZ	2.25	0.69
2:GE:225:THR:O	2:GE:229:ARG:HG2	1.93	0.69
2:HE:189:LEU:HA	2:HE:192:HIS:CE1	2.27	0.69
3:HF:54:ALA:HB3	3:HF:58:LYS:HB3	1.73	0.69
3:HH:324:LYS:HE2	2:HI:222:PRO:HD2	1.73	0.69
2:IG:254:GLU:O	2:IG:258:ASN:ND2	2.21	0.69
2:JE:1:MET:N	2:JE:130:THR:OG1	2.26	0.69
2:JG:208:ALA:H	2:JG:304:LYS:HZ1	1.37	0.69
3:KD:46:ARG:HH22	2:KE:73:THR:HA	1.58	0.69
2:KE:220:GLU:HG2	2:KE:221:ARG:HG2	1.75	0.69
3:KF:12:CYS:SG	3:KF:13:GLY:N	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:376:GLU:OE1	3:MF:376:GLU:N	2.22	0.69
18:O1:84:ARG:HH21	18:O1:85:THR:HG23	1.58	0.69
2:OG:101:ASN:HA	2:OG:144:GLY:HA2	1.73	0.69
2:OI:8:HIS:CE1	2:OI:65:ALA:HB1	2.26	0.69
2:OI:205:ASP:OD2	2:OI:304:LYS:NZ	2.24	0.69
19:P1:347:LEU:HA	19:P1:359:TRP:O	1.93	0.69
19:P2:121:PRO:HD2	19:P2:171:ASP:HA	1.75	0.69
2:PG:388:TRP:HB3	2:PG:425:LEU:HD21	1.75	0.69
2:QG:79:ARG:O	2:QG:84:ARG:NE	2.26	0.69
3:RF:99:ASN:HB2	3:RF:142:GLY:HA3	1.75	0.69
2:RG:315:CYS:O	2:RG:351:PHE:HA	1.92	0.69
3:RH:322:SER:OG	3:RH:324:LYS:NZ	2.20	0.69
2:RI:269:LEU:HD23	2:RI:303:VAL:HG21	1.75	0.69
3:RJ:139:LEU:N	3:RJ:168:SER:OG	2.25	0.69
3:RJ:169:VAL:HA	3:RJ:202:ILE:HG13	1.74	0.69
3:SF:54:ALA:HB3	3:SF:58:LYS:HB3	1.75	0.69
3:SF:149:THR:HG21	3:SF:191:GLN:HE21	1.58	0.69
2:SI:306:ASP:OD2	2:SI:309:HIS:ND1	2.25	0.69
3:SJ:32:PRO:O	3:SJ:83:GLN:NE2	2.26	0.69
2:TG:246:GLY:HA3	2:TG:356:ASN:HA	1.74	0.69
3:TJ:266:PHE:HB3	3:TJ:368:ILE:HD11	1.74	0.69
3:UD:83:GLN:O	3:UD:86:ARG:NH2	2.26	0.69
3:UF:316:VAL:HG22	3:UF:352:ALA:HB3	1.72	0.69
2:WE:26:LEU:HD13	2:WE:363:VAL:HG23	1.74	0.69
3:WH:5:VAL:HG22	3:WH:62:ARG:HB3	1.75	0.69
22:XC:82:ASN:ND2	22:XC:127:ASP:OD1	2.26	0.69
24:YN:88:SER:O	24:YN:94:ASN:ND2	2.24	0.69
1:A2:203:LYS:HA	1:A2:206:ARG:HH21	1.57	0.69
2:BI:25:CYS:HB2	2:BI:30:ILE:HB	1.75	0.69
3:CF:156:ARG:NH1	3:CF:195:ASN:O	2.26	0.69
3:CF:211:CYS:HA	3:CF:215:LEU:HB2	1.73	0.69
3:DH:330:MET:HG2	3:DH:349:VAL:HG11	1.75	0.69
3:EF:54:ALA:HA	3:FF:283:ALA:HB2	1.75	0.69
8:F7:241:ARG:O	8:F7:241:ARG:NE	2.26	0.69
3:FH:309:ARG:H	3:FH:372:THR:HG1	1.40	0.69
9:G1:525:PRO:HA	9:G1:528:LEU:HD12	1.73	0.69
2:GG:271:THR:OG1	2:GG:301:GLN:OE1	2.11	0.69
11:H4:256:HIS:CB	11:H4:257:PRO:HD3	2.22	0.69
2:HE:101:ASN:HB3	2:HE:182:VAL:HG11	1.75	0.69
2:JE:250:VAL:HG21	2:JE:318:LEU:HD11	1.75	0.69
3:LF:261:PRO:O	3:LF:264:HIS:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:84:ILE:O	3:MH:86:ARG:NH1	2.26	0.69
3:MH:409:THR:HB	20:Q2:1417:ARG:HH22	1.57	0.69
3:PH:11:GLN:O	25:PH:501:GTP:N2	2.26	0.69
2:PI:25:CYS:HB2	2:PI:30:ILE:HB	1.75	0.69
2:QE:54:SER:HB2	2:QE:62:VAL:HB	1.75	0.69
2:QG:306:ASP:OD2	2:QG:309:HIS:N	2.26	0.69
3:TH:83:GLN:O	3:TH:86:ARG:NH2	2.26	0.69
2:TI:216:ASN:HD21	2:TI:275:VAL:HG23	1.57	0.69
3:UH:173:PRO:O	3:UH:380:ARG:NH2	2.26	0.69
3:VF:269:GLY:HA3	3:VF:367:PHE:HB3	1.75	0.69
2:VG:325:PRO:O	2:VG:329:ASN:ND2	2.26	0.69
2:WE:205:ASP:OD2	2:WE:304:LYS:NZ	2.26	0.69
2:WI:8:HIS:CE1	2:WI:21:TRP:HH2	2.10	0.69
22:XE:1:MET:N	22:XE:69:LEU:O	2.26	0.69
2:AG:280:LYS:NZ	2:MG:90:GLU:OE1	2.22	0.69
2:DE:264:ARG:O	2:DE:266:HIS:ND1	2.25	0.69
2:DE:338:LYS:HZ2	2:DE:340:THR:H	1.41	0.69
3:GF:49:VAL:HG11	3:GF:241:ARG:HB3	1.75	0.69
3:HF:316:VAL:HG22	3:HF:352:ALA:HB3	1.73	0.69
2:IE:306:ASP:OD2	2:IE:309:HIS:ND1	2.26	0.69
2:IG:288:VAL:HG11	2:IG:327:ASP:HB2	1.75	0.69
3:JH:372:THR:HB	3:JH:375:GLN:HE22	1.57	0.69
3:KF:111:GLU:OE1	3:KF:111:GLU:N	2.26	0.69
3:KF:380:ARG:O	3:KF:384:GLN:HG2	1.93	0.69
15:L3:210:GLU:O	15:L3:213:SER:OG	2.10	0.69
2:ME:264:ARG:O	2:ME:266:HIS:ND1	2.25	0.69
20:Q1:1501:LEU:HD12	20:Q1:1503:SER:H	1.58	0.69
3:RF:134:GLN:HA	3:RF:165:ASN:O	1.93	0.69
2:RG:2:ARG:NH2	2:RG:250:VAL:O	2.26	0.69
3:RH:54:ALA:HB3	3:RH:58:LYS:HB2	1.75	0.69
3:VH:16:ILE:HG22	3:VH:226:ASN:ND2	2.08	0.69
23:XK:88:ASP:OD1	23:XK:89:TYR:N	2.26	0.69
3:BH:132:GLY:HA2	3:BH:162:ARG:HB3	1.74	0.68
3:CH:64:VAL:HG21	3:CH:120:VAL:HG12	1.74	0.68
2:EG:67:PHE:HD1	2:EG:91:GLN:HE22	1.39	0.68
3:EH:14:ASN:HB3	3:EH:76:VAL:HG11	1.75	0.68
8:F2:226:GLN:HB3	8:F2:230:ARG:HH12	1.57	0.68
3:FD:378:PHE:HE1	3:FD:419:VAL:HG22	1.58	0.68
2:FE:127:ASP:OD1	2:FE:128:LEU:N	2.26	0.68
9:G2:179:LYS:NZ	9:G2:180:THR:O	2.26	0.68
3:GH:321:MET:HE3	3:GH:363:MET:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:113:VAL:HB	3:HF:154:LYS:HE3	1.74	0.68
3:IF:378:PHE:CD1	3:IF:419:VAL:HG22	2.28	0.68
3:KH:309:ARG:NH2	3:KH:426:GLN:O	2.26	0.68
15:L2:88:VAL:O	3:LF:392:LYS:NZ	2.26	0.68
3:LF:327:ASP:HA	3:LF:330:MET:SD	2.33	0.68
2:LI:144:GLY:N	25:LI:501:GTP:O2B	2.26	0.68
2:OE:263:PRO:HD3	3:OF:396:HIS:CD2	2.28	0.68
2:PE:255:PHE:O	2:PE:259:LEU:HB2	1.93	0.68
3:PH:344:TRP:HB3	2:PI:401:LYS:HE2	1.74	0.68
2:RG:388:TRP:HB3	2:RG:425:LEU:HD11	1.75	0.68
2:SE:349:THR:HG23	3:SF:179:VAL:HG12	1.74	0.68
3:UD:51:TYR:HB3	3:UD:59:TYR:HB3	1.75	0.68
3:UD:156:ARG:NH1	3:UD:195:ASN:O	2.24	0.68
2:UE:205:ASP:OD2	2:UE:304:LYS:NZ	2.25	0.68
3:UF:8:GLN:NE2	3:UF:13:GLY:O	2.26	0.68
2:VG:46:ASP:OD1	2:VG:50:ASN:ND2	2.25	0.68
3:VH:2:ARG:HA	3:VH:129:CYS:O	1.92	0.68
3:VH:13:GLY:HA2	3:VH:16:ILE:HG12	1.75	0.68
22:XE:20:LYS:NZ	22:XE:23:GLN:OE1	2.26	0.68
4:B2:303:ASP:OD1	4:B2:306:ARG:NH2	2.26	0.68
4:B7:293:LEU:HD22	4:B7:363:LEU:HD13	1.74	0.68
3:BF:27:GLU:OE2	3:BF:359:ARG:NH1	2.25	0.68
2:BG:142:GLY:HA3	2:BG:183:GLU:HG2	1.76	0.68
3:CJ:12:CYS:O	3:CJ:16:ILE:HG12	1.93	0.68
6:D7:346:LYS:HE3	6:D7:387:SER:HB2	1.76	0.68
6:D7:353:ALA:HA	6:D7:356:ARG:HD2	1.75	0.68
3:DD:119:VAL:HA	3:DD:122:LYS:HE3	1.74	0.68
2:DE:219:ILE:HD12	11:H3:235:ASN:HA	1.74	0.68
3:EH:311:LEU:HD12	3:EH:342:VAL:HG21	1.76	0.68
3:GD:58:LYS:NZ	3:HD:280:GLN:OE1	2.26	0.68
3:IF:175:VAL:HG22	3:IF:177:ASP:H	1.57	0.68
14:K3:138:ALA:HA	14:K3:252:LEU:HD11	1.75	0.68
2:NE:12:ALA:HB1	25:NE:501:GTP:C2	2.29	0.68
2:NE:30:ILE:HA	2:NE:36:MET:HE1	1.73	0.68
2:NE:254:GLU:OE1	2:NE:254:GLU:N	2.25	0.68
3:NF:73:MET:HA	3:NF:76:VAL:HG22	1.75	0.68
2:OE:255:PHE:O	2:OE:259:LEU:HB2	1.94	0.68
19:P2:495:ARG:NH2	2:WI:282:TYR:OH	2.24	0.68
3:RF:139:LEU:HD21	3:RF:170:VAL:HG22	1.74	0.68
3:TF:45:GLU:O	3:TF:48:ASN:ND2	2.26	0.68
2:TI:182:VAL:HA	2:TI:185:TYR:HD2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:324:LYS:HD2	2:UE:221:ARG:HD2	1.74	0.68
2:VE:26:LEU:HD22	2:VE:363:VAL:HG23	1.73	0.68
2:VG:332:ILE:HA	2:VG:335:ILE:HD12	1.75	0.68
3:VH:406:MET:O	3:VH:409:THR:OG1	2.10	0.68
3:WF:94:GLN:HA	23:XJ:74:LYS:H	1.57	0.68
2:WG:209:ILE:HG21	2:WG:227:LEU:HG	1.76	0.68
2:WI:329:ASN:HA	2:WI:332:ILE:HG12	1.75	0.68
22:XD:1:MET:SD	22:XD:2:PHE:N	2.67	0.68
1:A2:303:ILE:HD11	1:A2:351:LEU:HB3	1.75	0.68
2:AE:215:ARG:HH11	2:AE:299:ALA:HB1	1.58	0.68
8:F2:153:LYS:HZ3	8:F2:258:SER:HB3	1.56	0.68
2:HG:85:GLN:OE1	2:HG:85:GLN:N	2.25	0.68
2:KE:32:PRO:O	2:KE:85:GLN:NE2	2.26	0.68
2:KE:101:ASN:HA	2:KE:144:GLY:HA2	1.73	0.68
2:ME:205:ASP:OD2	2:ME:304:LYS:NZ	2.25	0.68
3:MH:187:LEU:O	3:MH:191:GLN:NE2	2.26	0.68
2:NE:287:SER:OG	2:NE:290:GLU:OE1	2.10	0.68
2:NG:99:ALA:H	2:NG:145:THR:HG22	1.56	0.68
2:OE:25:CYS:HB2	2:OE:30:ILE:HB	1.75	0.68
2:PE:1:MET:O	2:PE:133:GLN:NE2	2.27	0.68
3:RF:385:PHE:HD1	3:RF:388:MET:HE2	1.58	0.68
2:RG:30:ILE:HA	2:RG:36:MET:HE1	1.76	0.68
3:SJ:60:VAL:HG23	3:SJ:86:ARG:HH11	1.58	0.68
2:TI:107:HIS:HA	2:TI:152:LEU:HD23	1.73	0.68
3:TJ:420:SER:O	3:TJ:424:GLN:HG3	1.92	0.68
2:UG:152:LEU:HG	2:UG:156:ARG:NH2	2.07	0.68
24:YM:146:ASP:HA	24:YM:149:LYS:HG2	1.75	0.68
4:B2:262:GLU:OE2	4:B2:394:ARG:NE	2.26	0.68
2:BE:205:ASP:OD1	2:BE:304:LYS:NZ	2.26	0.68
8:F2:357:LEU:HD22	8:F2:455:LEU:HD13	1.76	0.68
3:FD:309:ARG:NH2	3:FD:426:GLN:O	2.25	0.68
2:FE:285:GLN:HE22	2:FE:287:SER:HB3	1.58	0.68
2:FE:288:VAL:HG11	2:FE:327:ASP:HB2	1.76	0.68
10:G5:33:ARG:HH12	3:MH:92:PHE:H	1.41	0.68
11:H3:256:HIS:ND1	11:H3:256:HIS:O	2.26	0.68
3:HF:12:CYS:HB3	25:HF:501:GTP:O4'	1.93	0.68
3:HH:375:GLN:HA	3:HH:378:PHE:CZ	2.29	0.68
3:JF:309:ARG:NH2	3:JF:426:GLN:O	2.26	0.68
2:KE:287:SER:OG	2:KE:290:GLU:OE1	2.10	0.68
2:KI:392:ASP:OD1	2:KI:393:HIS:N	2.26	0.68
15:L2:88:VAL:HG21	2:LE:264:ARG:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:338:LYS:HZ2	2:LG:340:THR:H	1.40	0.68
3:MH:240:LEU:HD22	3:MH:248:ALA:HB1	1.75	0.68
3:MH:378:PHE:HA	3:MH:381:ILE:HG12	1.76	0.68
2:NG:12:ALA:HB2	25:NG:501:GTP:H5''	1.74	0.68
3:OF:375:GLN:HA	3:OF:378:PHE:CE2	2.29	0.68
2:PG:319:TYR:HA	2:PG:374:ALA:O	1.92	0.68
2:PG:325:PRO:O	2:PG:329:ASN:ND2	2.27	0.68
20:Q1:1401:GLN:OE1	20:Q1:1406:LEU:HB2	1.92	0.68
2:SE:12:ALA:HB2	25:SE:501:GTP:H5''	1.74	0.68
2:SE:120:ASP:OD1	2:SE:123:ARG:NH1	2.26	0.68
2:SG:254:GLU:OE1	2:SG:254:GLU:N	2.24	0.68
2:TI:12:ALA:HB2	25:TI:501:GTP:H5''	1.76	0.68
22:XD:73:LEU:HD22	22:XD:169:ASP:HB3	1.75	0.68
4:B3:183:LEU:O	4:B3:187:ARG:HG2	1.94	0.68
4:B7:214:THR:OG1	4:B7:217:GLN:OE1	2.11	0.68
5:C7:176:ASP:HA	5:C7:179:ARG:HE	1.58	0.68
3:DD:52:ASN:OD1	3:DD:62:ARG:NH1	2.27	0.68
3:EF:266:PHE:HB3	3:EF:368:ILE:HD11	1.75	0.68
3:EH:48:ASN:O	3:EH:62:ARG:NH2	2.26	0.68
9:G1:419:VAL:HA	9:G1:442:TYR:O	1.93	0.68
3:GH:19:LYS:NZ	3:GH:223:GLY:O	2.27	0.68
3:GH:261:PRO:O	3:GH:264:HIS:NE2	2.27	0.68
3:HH:271:ALA:HB1	3:HH:272:PRO:HD2	1.75	0.68
2:II:205:ASP:OD2	2:II:304:LYS:NZ	2.26	0.68
2:KE:417:GLU:N	2:KE:417:GLU:OE1	2.25	0.68
2:LG:220:GLU:HG2	2:LG:221:ARG:HG2	1.73	0.68
3:OD:375:GLN:HA	3:OD:378:PHE:CZ	2.29	0.68
2:OI:195:LEU:HD11	2:OI:428:LEU:HD11	1.75	0.68
19:P2:153:ALA:O	19:P2:183:ARG:NH1	2.26	0.68
2:PE:263:PRO:HD3	3:PF:396:HIS:CD2	2.28	0.68
3:RF:19:LYS:NZ	3:RF:223:GLY:O	2.26	0.68
3:RH:184:ASN:ND2	3:RH:398:TYR:OH	2.26	0.68
2:RI:88:HIS:HB3	2:RI:91:GLN:HB2	1.76	0.68
2:SE:1:MET:SD	2:SE:50:ASN:ND2	2.65	0.68
3:SH:170:VAL:N	3:SH:202:ILE:O	2.16	0.68
3:TF:60:VAL:HG23	3:TF:86:ARG:HH11	1.56	0.68
3:TF:84:ILE:O	3:TF:86:ARG:NH1	2.26	0.68
2:TI:25:CYS:HB2	2:TI:30:ILE:HB	1.75	0.68
3:UF:48:ASN:O	3:UF:62:ARG:NH2	2.25	0.68
3:UF:137:HIS:HE1	3:UF:166:THR:HB	1.57	0.68
3:VD:117:LEU:HD11	3:VD:154:LYS:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:252:LYS:O	3:VD:256:ASN:ND2	2.27	0.68
2:VE:91:GLN:HG3	2:VE:121:ARG:HH21	1.58	0.68
2:WE:395:PHE:HD2	2:WE:422:ARG:HH11	1.41	0.68
22:XC:72:LYS:HE2	23:XJ:62:ARG:HD2	1.73	0.68
22:XE:36:ARG:HB3	22:XE:45:LEU:HD11	1.75	0.68
2:AI:417:GLU:OE1	2:AI:417:GLU:N	2.21	0.68
3:BF:250:LEU:HD13	3:BF:253:LEU:HD12	1.74	0.68
5:C2:274:LEU:HD11	5:C3:399:ARG:HG2	1.75	0.68
3:CJ:40:SER:HB2	3:CJ:43:GLN:HG2	1.73	0.68
6:D8:315:LEU:HD21	6:D8:419:LYS:HB3	1.74	0.68
3:DF:12:CYS:SG	3:DF:13:GLY:N	2.67	0.68
3:GF:83:GLN:O	3:GF:86:ARG:NH2	2.27	0.68
3:GF:344:TRP:CE2	2:GG:401:LYS:HD3	2.29	0.68
11:H3:249:LYS:HA	11:H3:252:PHE:CE1	2.28	0.68
3:HH:142:GLY:N	25:HH:501:GTP:O3B	2.27	0.68
3:JF:322:SER:OG	3:JF:324:LYS:NZ	2.26	0.68
3:JH:302:ALA:HB1	3:JH:377:LEU:HD11	1.75	0.68
3:KH:214:THR:HG21	3:KH:273:LEU:HB3	1.76	0.68
15:L2:120:LYS:O	15:L2:122:LYS:NZ	2.26	0.68
2:MG:392:ASP:HB2	2:MG:422:ARG:HH12	1.57	0.68
2:OG:9:VAL:HG11	2:OG:150:ALA:HB2	1.75	0.68
3:OH:165:ASN:HA	3:OH:198:GLU:HB3	1.75	0.68
20:Q2:1473:ASP:HA	20:Q2:1476:LYS:HG2	1.76	0.68
3:SH:68:LEU:HA	3:SH:93:GLY:H	1.59	0.68
25:TH:501:GTP:O3'	25:TH:501:GTP:O3G	2.10	0.68
2:TI:286:LEU:HG	2:TI:373:ARG:HD2	1.75	0.68
2:UE:46:ASP:HA	2:UE:50:ASN:HB3	1.75	0.68
2:VE:360:PRO:HB2	2:VE:371:VAL:HG11	1.75	0.68
24:YM:155:SER:HA	24:YM:158:LEU:HG	1.75	0.68
2:AG:252:LEU:HA	2:AG:255:PHE:HD2	1.59	0.68
2:AI:399:TYR:O	2:AI:402:ARG:NH1	2.27	0.68
4:B3:196:SER:HA	7:E2:147:LYS:HE3	1.76	0.68
4:B7:189:CYS:O	4:B8:317:ARG:NH1	2.27	0.68
3:DD:239:CYS:HB3	3:DD:248:ALA:HA	1.74	0.68
8:F7:361:LEU:HD21	8:F7:451:LEU:HB3	1.75	0.68
9:G1:179:LYS:NZ	9:G1:180:THR:O	2.26	0.68
3:HH:378:PHE:CD1	3:HH:419:VAL:HG22	2.29	0.68
3:LH:156:ARG:NH1	3:LH:195:ASN:O	2.27	0.68
16:M2:95:ARG:NH2	16:M2:98:HIS:O	2.26	0.68
3:MH:172:SER:OG	3:MH:205:GLU:OE2	2.11	0.68
2:NG:35:GLN:NE2	2:NG:58:ALA:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:406:MET:O	3:NH:409:THR:OG1	2.10	0.68
19:P1:551:MET:HB3	19:P1:562:THR:HG22	1.75	0.68
2:QE:210:TYR:HE1	2:QE:227:LEU:HD11	1.57	0.68
3:QF:28:HIS:O	3:QF:43:GLN:NE2	2.25	0.68
3:QH:324:LYS:NZ	2:QI:222:PRO:O	2.24	0.68
2:QI:396:ASP:HB3	2:QI:422:ARG:HH22	1.57	0.68
3:RH:8:GLN:NE2	3:RH:136:THR:OG1	2.27	0.68
2:RI:215:ARG:HH12	2:RI:300:ASN:HA	1.59	0.68
3:SF:249:ASP:O	3:SF:252:LYS:HB2	1.94	0.68
3:SF:316:VAL:HG22	3:SF:352:ALA:HB3	1.73	0.68
2:TG:286:LEU:HG	2:TG:373:ARG:HD2	1.76	0.68
3:UF:144:GLY:N	25:UF:501:GTP:O2B	2.23	0.68
3:UF:419:VAL:O	3:UF:423:GLN:NE2	2.26	0.68
2:AE:280:LYS:NZ	2:AE:284:GLU:OE2	2.26	0.68
2:AG:167:LEU:HD13	2:AG:200:CYS:HB2	1.76	0.68
2:AI:172:TYR:N	2:AI:204:VAL:O	2.27	0.68
2:DE:99:ALA:HB3	2:DE:145:THR:HG22	1.74	0.68
9:G1:262:TYR:HD1	9:G1:277:GLU:HA	1.59	0.68
2:GE:11:GLN:HB2	2:GE:74:VAL:HG11	1.74	0.68
2:IE:85:GLN:OE1	2:IE:85:GLN:N	2.22	0.68
3:IH:246:LEU:HD12	3:IH:352:ALA:HB1	1.76	0.68
2:JG:144:GLY:N	25:JG:501:GTP:O2B	2.27	0.68
2:KG:33:ASP:OD1	2:KG:34:GLY:N	2.27	0.68
2:NE:67:PHE:HB2	2:NE:92:LEU:HD13	1.76	0.68
2:NG:329:ASN:HA	2:NG:332:ILE:HG12	1.76	0.68
2:OE:89:PRO:HD2	2:PE:280:LYS:HZ3	1.59	0.68
3:OF:378:PHE:CE1	3:OF:419:VAL:HG22	2.28	0.68
2:OI:69:ASP:O	2:OI:94:THR:HA	1.93	0.68
19:P1:497:GLN:NE2	19:P1:498:MET:SD	2.67	0.68
3:PF:48:ASN:O	3:PF:62:ARG:NH2	2.20	0.68
3:PF:68:LEU:HD12	3:PF:97:ALA:HB2	1.75	0.68
2:PI:301:GLN:OE1	2:PI:301:GLN:N	2.26	0.68
2:QE:101:ASN:HA	2:QE:144:GLY:HA2	1.75	0.68
3:QF:316:VAL:HG22	3:QF:352:ALA:HB3	1.76	0.68
2:AI:214:ARG:HH21	17:N3:86:PHE:HA	1.58	0.68
2:AI:370:LYS:HD2	9:G2:90:VAL:HB	1.76	0.68
3:DD:36:TYR:CZ	3:DD:38:GLY:HA2	2.29	0.68
2:DG:101:ASN:HB3	2:DG:182:VAL:HG11	1.76	0.68
8:F6:201:ARG:HH22	8:F6:465:ASP:HB2	1.59	0.68
2:FG:213:CYS:HA	2:FG:217:LEU:HB2	1.75	0.68
10:G5:714:LYS:HA	10:G5:720:VAL:HG22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KG:89:PRO:HD2	2:LG:280:LYS:NZ	2.09	0.68
2:KG:144:GLY:N	25:KG:501:GTP:O2B	2.27	0.68
15:L2:232:LYS:O	15:L2:236:GLN:NE2	2.26	0.68
3:MH:324:LYS:NZ	2:MI:222:PRO:O	2.26	0.68
3:OH:271:ALA:HB1	3:OH:272:PRO:HD2	1.76	0.68
19:P1:18:ALA:HB3	19:P1:613:ARG:HB3	1.75	0.68
3:QH:275:SER:O	3:QH:279:GLN:NE2	2.27	0.68
2:QI:12:ALA:O	25:QI:501:GTP:N1	2.27	0.68
2:QI:228:ASN:HA	2:QI:231:ILE:HG12	1.76	0.68
3:SF:12:CYS:HA	3:SF:15:GLN:NE2	2.07	0.68
2:SG:108:TYR:O	2:SG:112:LYS:NZ	2.20	0.68
3:SJ:215:LEU:O	3:SJ:276:ARG:NH1	2.27	0.68
3:SJ:278:SER:HA	3:SJ:281:TYR:HB2	1.74	0.68
3:TF:27:GLU:OE2	3:TF:318:ARG:NH2	2.27	0.68
2:TG:229:ARG:HE	2:TG:368:LEU:HD22	1.59	0.68
2:TI:142:GLY:HA3	2:TI:183:GLU:HG2	1.75	0.68
2:UG:5:ILE:O	2:UG:135:PHE:HA	1.94	0.68
2:VG:274:PRO:HG3	2:VG:374:ALA:HA	1.75	0.68
2:VG:310:GLY:HA3	2:VG:383:ALA:HB2	1.76	0.68
2:WG:81:GLY:O	2:WG:84:ARG:NH1	2.27	0.68
1:A3:160:GLN:HE22	1:A3:234:ASN:HD22	1.42	0.68
2:AG:67:PHE:HB2	2:AG:92:LEU:HD13	1.76	0.68
2:AI:229:ARG:HD3	2:AI:363:VAL:HG11	1.75	0.68
2:AI:390:ARG:HA	2:AI:393:HIS:CD2	2.29	0.68
2:DE:325:PRO:O	2:DE:329:ASN:ND2	2.27	0.68
8:F2:208:HIS:HB2	8:F3:89:ARG:HH12	1.57	0.68
3:FF:111:GLU:HG2	3:FF:112:LEU:HD12	1.76	0.68
9:G2:298:PRO:HB3	9:G2:320:VAL:HG22	1.76	0.68
2:HG:320:ARG:HD3	2:HG:360:PRO:HG3	1.75	0.68
2:KE:88:HIS:CE1	2:KE:121:ARG:HH22	2.11	0.68
3:LD:216:LYS:O	3:LD:276:ARG:NH2	2.27	0.68
3:LF:135:LEU:HD21	3:LF:151:LEU:HD11	1.75	0.68
3:LF:390:ARG:HE	16:M2:42:LEU:HD21	1.59	0.68
3:MF:316:VAL:HG22	3:MF:352:ALA:HB3	1.74	0.68
3:MH:406:MET:HG2	20:Q2:1419:ARG:CZ	2.24	0.68
2:NE:176:GLN:NE2	2:NE:207:GLU:OE2	2.27	0.68
2:NI:144:GLY:N	25:NI:501:GTP:O2B	2.23	0.68
3:OH:162:ARG:HA	3:OH:251:ARG:HH21	1.58	0.68
19:P2:173:MET:HE1	19:P2:186:GLU:HA	1.74	0.68
2:PI:12:ALA:O	25:PI:501:GTP:N1	2.26	0.68
3:SJ:190:HIS:NE2	3:SJ:414:ASN:OD1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:252:LYS:O	3:TJ:256:ASN:ND2	2.27	0.68
3:UF:12:CYS:HB3	25:UF:501:GTP:H5'	1.75	0.68
3:UF:134:GLN:HA	3:UF:165:ASN:O	1.93	0.68
2:UG:24:TYR:O	2:UG:28:HIS:ND1	2.27	0.68
3:VD:50:TYR:HE2	3:VD:241:ARG:HH21	1.39	0.68
3:WH:375:GLN:HA	3:WH:378:PHE:CE2	2.28	0.68
22:XD:16:SER:OG	22:XD:163:ARG:NH1	2.27	0.68
2:AI:425:LEU:HA	2:AI:428:LEU:HD12	1.74	0.67
3:BF:12:CYS:HA	25:BF:501:GTP:N2	2.09	0.67
3:CJ:263:LEU:HD12	3:CJ:370:ASN:HD21	1.58	0.67
6:D3:165:PRO:HG2	6:D3:418:VAL:HG11	1.74	0.67
2:EG:214:ARG:O	2:EG:214:ARG:NH1	2.28	0.67
3:EH:216:LYS:HB2	3:EH:276:ARG:HD2	1.75	0.67
2:FE:371:VAL:HG11	2:FE:374:ALA:HB2	1.76	0.67
9:G1:42:ARG:HH21	9:G1:54:TYR:HB3	1.57	0.67
2:HI:85:GLN:N	2:HI:85:GLN:OE1	2.27	0.67
2:II:358:GLN:NE2	2:II:359:PRO:O	2.24	0.67
3:JD:12:CYS:SG	3:JD:13:GLY:N	2.68	0.67
2:JE:101:ASN:HB3	2:JE:182:VAL:HG11	1.75	0.67
2:JE:273:ALA:HB2	2:JE:295:CYS:HB3	1.76	0.67
2:JG:99:ALA:H	2:JG:145:THR:HG22	1.58	0.67
2:KI:337:THR:O	2:KI:339:ARG:NH1	2.27	0.67
15:L2:55:GLU:N	15:L2:55:GLU:OE1	2.26	0.67
3:LD:19:LYS:HZ2	3:LD:227:HIS:HB2	1.58	0.67
3:LD:423:GLN:HA	3:LD:426:GLN:HE21	1.58	0.67
2:LE:60:LYS:NZ	2:ME:282:TYR:O	2.27	0.67
3:LH:11:GLN:O	25:LH:501:GTP:N2	2.28	0.67
3:ND:286:VAL:HG22	3:ND:363:MET:HE3	1.76	0.67
3:ND:316:VAL:HG22	3:ND:352:ALA:HB3	1.75	0.67
3:OF:141:GLY:HA3	25:OF:501:GTP:H5''	1.76	0.67
19:P1:378:HIS:CD2	19:P1:394:ASP:HB3	2.30	0.67
3:PF:19:LYS:NZ	3:PF:223:GLY:O	2.27	0.67
20:Q1:1398:ASP:OD1	20:Q1:1401:GLN:NE2	2.27	0.67
3:RF:316:VAL:HG22	3:RF:352:ALA:HB3	1.74	0.67
2:RG:88:HIS:HB3	2:RG:91:GLN:HB3	1.77	0.67
2:VG:5:ILE:HD13	2:VG:64:ARG:HB3	1.76	0.67
2:VG:101:ASN:HB3	2:VG:182:VAL:HG11	1.76	0.67
2:WI:91:GLN:HB3	2:WI:121:ARG:HH21	1.59	0.67
1:A2:132:VAL:HG13	1:A2:264:PHE:HE1	1.59	0.67
3:BH:247:ASN:HB3	3:BH:252:LYS:HG2	1.75	0.67
2:CG:207:GLU:HB2	2:CG:304:LYS:HZ1	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DG:229:ARG:HH12	2:DG:366:GLY:HA2	1.58	0.67
3:ED:170:VAL:N	3:ED:202:ILE:O	2.22	0.67
2:FG:2:ARG:NH1	2:FG:242:LEU:O	2.27	0.67
2:FG:262:TYR:OH	3:FH:391:ARG:O	2.12	0.67
2:FG:358:GLN:NE2	2:FG:359:PRO:O	2.27	0.67
9:G2:234:GLN:NE2	9:G2:268:LEU:O	2.27	0.67
2:GG:265:ILE:HD13	2:GG:432:TYR:CE1	2.28	0.67
3:HF:246:LEU:HD12	3:HF:352:ALA:HB1	1.75	0.67
3:HH:214:THR:HG21	3:HH:273:LEU:HB3	1.75	0.67
2:II:65:ALA:O	2:II:91:GLN:NE2	2.27	0.67
3:KF:273:LEU:H	3:KF:292:GLN:HE22	1.42	0.67
3:LD:325:GLU:OE1	3:LD:325:GLU:N	2.24	0.67
2:LE:220:GLU:HG2	2:LE:221:ARG:HE	1.57	0.67
3:MH:32:PRO:O	3:MH:83:GLN:NE2	2.27	0.67
17:N2:66:ILE:HG23	17:N2:71:LEU:HB3	1.74	0.67
3:ND:133:PHE:H	3:ND:164:MET:HE1	1.60	0.67
3:NH:33:THR:O	3:NH:58:LYS:NZ	2.26	0.67
3:OF:8:GLN:NE2	3:OF:13:GLY:O	2.27	0.67
19:P2:106:ARG:H	19:P2:145:ARG:HH12	1.41	0.67
2:QE:349:THR:HG23	3:QF:179:VAL:HG12	1.75	0.67
2:QI:396:ASP:HA	2:QI:422:ARG:HH12	1.59	0.67
3:RF:135:LEU:HD13	3:RF:166:THR:HG22	1.77	0.67
2:SE:208:ALA:N	2:SE:304:LYS:HZ1	1.90	0.67
3:TF:141:GLY:HA3	25:TF:501:GTP:H5''	1.76	0.67
2:TG:196:GLU:N	2:TG:196:GLU:OE1	2.28	0.67
2:AG:56:THR:HG21	2:BG:285:GLN:HB2	1.74	0.67
3:AH:12:CYS:O	3:AH:16:ILE:HG12	1.95	0.67
3:DF:346:PRO:HG2	2:DG:394:LYS:HZ2	1.60	0.67
2:GE:302:MET:N	2:GE:302:MET:SD	2.63	0.67
2:GG:10:GLY:O	2:GG:13:GLY:N	2.26	0.67
2:GG:160:ASP:OD1	2:GG:161:TYR:N	2.27	0.67
3:KD:323:MET:N	3:KD:323:MET:SD	2.65	0.67
15:L2:158:ILE:HA	15:L2:161:ARG:HB2	1.76	0.67
19:P1:495:ARG:NH2	2:WE:282:TYR:OH	2.27	0.67
2:PE:349:THR:HG23	3:PF:179:VAL:HG12	1.76	0.67
3:PF:8:GLN:NE2	3:PF:13:GLY:O	2.26	0.67
2:RG:171:ILE:HD12	2:RG:204:VAL:HG23	1.77	0.67
2:SI:205:ASP:OD2	2:SI:304:LYS:NZ	2.27	0.67
2:VG:254:GLU:OE1	2:VG:254:GLU:N	2.26	0.67
3:WH:40:SER:HB2	3:WH:43:GLN:HG2	1.76	0.67
1:A2:97:ARG:HA	1:A2:100:ARG:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:77:ARG:HA	3:AH:82:GLY:HA3	1.77	0.67
4:B3:187:ARG:HH12	7:E2:153:ARG:HH12	1.40	0.67
2:DG:67:PHE:HB2	2:DG:92:LEU:HD13	1.76	0.67
2:EG:205:ASP:OD2	2:EG:304:LYS:NZ	2.27	0.67
25:EG:501:GTP:N3	25:EG:501:GTP:O4'	2.26	0.67
8:F2:244:ARG:NH1	8:F2:247:GLN:OE1	2.27	0.67
3:FD:275:SER:N	3:FD:278:SER:OG	2.28	0.67
3:FF:324:LYS:HE2	2:FG:222:PRO:HG2	1.77	0.67
3:FH:261:PRO:O	3:FH:264:HIS:NE2	2.28	0.67
10:G5:36:VAL:HB	10:G5:40:LYS:HZ3	1.60	0.67
10:G5:656:LYS:HD3	10:G5:659:ARG:HE	1.59	0.67
11:H4:281:LEU:HB3	11:H4:304:THR:HG21	1.77	0.67
2:HG:101:ASN:HA	2:HG:144:GLY:HA2	1.73	0.67
3:IF:48:ASN:O	3:IF:62:ARG:NH2	2.24	0.67
2:LE:276:ILE:HD11	2:LE:280:LYS:HG2	1.75	0.67
16:M3:79:ILE:HG13	16:M3:80:TYR:H	1.58	0.67
2:MG:216:ASN:HD21	2:MG:275:VAL:HG23	1.59	0.67
3:MH:2:ARG:HG2	3:MH:131:GLN:HE21	1.60	0.67
2:MI:207:GLU:HB2	2:MI:304:LYS:HZ1	1.58	0.67
2:NE:144:GLY:N	25:NE:501:GTP:O2B	2.27	0.67
2:NG:396:ASP:OD1	2:NG:397:LEU:N	2.27	0.67
2:NI:168:GLU:OE1	2:NI:198:SER:OG	2.11	0.67
2:OI:287:SER:OG	2:OI:290:GLU:OE1	2.11	0.67
19:P2:441:VAL:O	19:P2:457:LEU:HB2	1.95	0.67
3:PF:378:PHE:HA	3:PF:381:ILE:HG12	1.76	0.67
3:PH:269:GLY:N	3:PH:367:PHE:O	2.27	0.67
2:QE:140:SER:HB2	2:QE:171:ILE:HG12	1.76	0.67
3:RF:139:LEU:N	3:RF:168:SER:OG	2.26	0.67
2:SE:1:MET:N	2:SE:130:THR:OG1	2.27	0.67
2:SE:32:PRO:O	2:SE:85:GLN:NE2	2.26	0.67
2:SE:99:ALA:H	2:SE:145:THR:HG22	1.60	0.67
2:SE:119:LEU:HD23	2:SE:122:ILE:HD11	1.76	0.67
2:SE:205:ASP:OD1	2:SE:304:LYS:NZ	2.26	0.67
3:SF:251:ARG:NH2	2:SG:98:ASP:O	2.27	0.67
3:SH:83:GLN:O	3:SH:86:ARG:NH2	2.27	0.67
3:TJ:61:PRO:HD3	3:TJ:84:ILE:HG13	1.77	0.67
3:UF:12:CYS:HA	25:UF:501:GTP:N2	2.09	0.67
3:AH:28:HIS:O	3:AH:43:GLN:NE2	2.27	0.67
2:AI:56:THR:HG21	2:BI:285:GLN:HG3	1.75	0.67
2:BG:160:ASP:OD1	2:BG:161:TYR:N	2.28	0.67
3:CH:8:GLN:HE22	3:CH:63:ALA:HB1	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D8:191:LYS:O	6:D8:194:ILE:HG22	1.95	0.67
3:DD:219:THR:OG1	9:G1:281:ARG:NH2	2.27	0.67
3:ED:302:ALA:HB1	3:ED:377:LEU:HD11	1.77	0.67
2:FG:6:SER:OG	2:FG:8:HIS:NE2	2.27	0.67
9:G1:331:VAL:HA	9:G1:344:ILE:HG23	1.77	0.67
3:GD:273:LEU:H	3:GD:292:GLN:HE22	1.41	0.67
3:HF:226:ASN:HA	3:HF:229:VAL:HG12	1.77	0.67
2:II:400:ALA:O	2:II:402:ARG:NH1	2.27	0.67
2:JG:1:MET:O	2:JG:133:GLN:NE2	2.22	0.67
2:JG:33:ASP:OD1	2:JG:34:GLY:N	2.27	0.67
15:L2:125:TYR:HD2	15:L2:136:LEU:HB2	1.59	0.67
2:LI:391:LEU:HD23	2:LI:394:LYS:HZ1	1.60	0.67
3:NF:357:PRO:HB3	3:NF:362:LYS:HA	1.75	0.67
2:OG:288:VAL:HG11	2:OG:327:ASP:HB2	1.76	0.67
2:RI:165:SER:HB3	2:RI:252:LEU:HD13	1.76	0.67
2:SE:192:HIS:NE2	2:SE:417:GLU:OE2	2.24	0.67
3:TH:247:ASN:HB3	3:TH:252:LYS:HG2	1.77	0.67
2:TI:256:GLN:O	2:TI:260:VAL:HG12	1.95	0.67
3:UF:233:MET:HA	3:UF:236:VAL:HG12	1.75	0.67
4:B7:120:ARG:NH1	4:B7:390:CYS:SG	2.68	0.67
3:BH:217:LEU:HD12	3:BH:219:THR:H	1.58	0.67
3:BH:324:LYS:NZ	2:BI:222:PRO:O	2.27	0.67
2:DG:236:SER:O	2:DG:243:ARG:NH2	2.27	0.67
9:G1:39:VAL:HB	9:G1:41:ARG:HH22	1.59	0.67
11:H4:212:LEU:O	11:H4:213:ILE:C	2.33	0.67
3:HD:286:VAL:HG21	3:HD:325:GLU:HG3	1.75	0.67
2:HE:30:ILE:HA	2:HE:36:MET:HE1	1.77	0.67
3:KF:65:LEU:HD21	3:KF:73:MET:HG2	1.77	0.67
3:LD:380:ARG:O	3:LD:384:GLN:HG2	1.94	0.67
16:M2:48:LYS:NZ	16:M2:49:GLN:O	2.19	0.67
3:NF:33:THR:O	3:NF:58:LYS:NZ	2.27	0.67
2:OG:346:TRP:NE1	2:OG:438:ASP:OD1	2.22	0.67
19:P1:139:VAL:HG12	19:P1:148:ILE:HD12	1.76	0.67
3:PH:57:GLY:HA3	24:YM:60:SER:HB3	1.77	0.67
3:QH:100:ASN:HB3	3:QH:103:LYS:HB2	1.77	0.67
2:RG:400:ALA:O	2:RG:402:ARG:NH1	2.27	0.67
2:RI:216:ASN:HB2	2:RI:276:ILE:HD12	1.75	0.67
2:SI:8:HIS:CE1	2:SI:65:ALA:HB1	2.30	0.67
2:SI:171:ILE:HD12	2:SI:204:VAL:HG13	1.75	0.67
2:TI:196:GLU:N	2:TI:196:GLU:OE1	2.26	0.67
24:YJ:87:HIS:HA	24:YJ:166:GLY:HA3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:311:LYS:HB3	1:A3:198:ILE:HG22	1.77	0.67
2:AG:160:ASP:OD1	2:AG:161:TYR:N	2.28	0.67
2:BI:67:PHE:HB2	2:BI:92:LEU:HD13	1.75	0.67
2:CG:201:ALA:H	2:CG:266:HIS:HD2	1.41	0.67
3:CH:3:GLU:OE2	3:CH:127:CYS:HB2	1.95	0.67
6:D7:351:ARG:HH12	6:D8:240:PHE:HD1	1.43	0.67
3:DF:319:GLY:HA2	3:DF:357:PRO:HG3	1.76	0.67
3:EF:172:SER:OG	3:EF:205:GLU:OE2	2.13	0.67
2:FE:85:GLN:OE1	2:FE:85:GLN:N	2.28	0.67
9:G1:133:VAL:O	9:G1:147:LYS:NZ	2.25	0.67
3:GD:2:ARG:HE	3:GD:129:CYS:HB3	1.60	0.67
2:GG:207:GLU:HA	2:GG:210:TYR:CD2	2.29	0.67
2:GI:115:VAL:HG11	2:GI:152:LEU:HD22	1.75	0.67
3:IH:19:LYS:NZ	3:IH:223:GLY:O	2.27	0.67
3:KH:67:ASP:OD1	3:KH:68:LEU:N	2.27	0.67
15:L2:48:THR:HG23	15:L2:49:MET:HE2	1.77	0.67
2:LE:268:PRO:HG3	2:LE:380:ASN:HD21	1.60	0.67
2:LE:325:PRO:O	2:LE:329:ASN:ND2	2.28	0.67
2:ME:255:PHE:HA	2:ME:259:LEU:HD23	1.76	0.67
2:MG:205:ASP:OD2	2:MG:304:LYS:NZ	2.27	0.67
3:MH:134:GLN:HA	3:MH:165:ASN:O	1.94	0.67
2:NE:5:ILE:O	2:NE:135:PHE:HA	1.95	0.67
2:OE:192:HIS:HA	2:OE:195:LEU:HD23	1.77	0.67
3:PF:139:LEU:N	3:PF:168:SER:OG	2.27	0.67
3:PH:77:ARG:NH1	3:PH:77:ARG:O	2.28	0.67
2:QG:27:GLU:N	2:QG:27:GLU:OE1	2.27	0.67
3:RJ:166:THR:OG1	3:RJ:198:GLU:O	2.13	0.67
3:SF:143:THR:O	3:SF:147:MET:HG3	1.94	0.67
2:TG:115:VAL:HA	2:TG:118:VAL:HG12	1.76	0.67
3:VF:406:MET:O	3:VF:409:THR:OG1	2.11	0.67
3:VH:52:ASN:OD1	3:VH:62:ARG:NH1	2.27	0.67
2:WG:308:ARG:NH2	2:WG:340:THR:O	2.27	0.67
24:YJ:88:SER:O	24:YJ:94:ASN:ND2	2.28	0.67
5:C3:261:LYS:HZ1	5:C3:300:TRP:HZ2	1.43	0.67
5:C7:118:GLU:OE2	5:C7:121:ARG:NH1	2.28	0.67
3:CF:245:GLN:OE1	2:CG:15:GLN:NE2	2.27	0.67
3:CH:233:MET:SD	3:CH:233:MET:N	2.67	0.67
3:ED:229:VAL:O	3:ED:232:THR:OG1	2.12	0.67
2:EG:40:LYS:HB2	9:G2:421:ARG:HH12	1.58	0.67
8:F6:209:ASP:OD2	8:F6:346:ARG:NH2	2.27	0.67
8:F7:390:LYS:HA	8:F7:393:GLN:HE21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:119:VAL:HA	3:FD:122:LYS:HE3	1.75	0.67
2:GE:352:LYS:HE2	3:GF:178:THR:HA	1.75	0.67
2:HE:160:ASP:OD1	2:HE:161:TYR:N	2.28	0.67
14:K3:365:MET:O	14:K3:369:GLN:NE2	2.27	0.67
3:LF:406:MET:O	3:LF:409:THR:OG1	2.11	0.67
2:MI:6:SER:OG	2:MI:8:HIS:NE2	2.27	0.67
3:ND:19:LYS:NZ	3:ND:223:GLY:O	2.28	0.67
19:P1:441:VAL:O	19:P1:457:LEU:HB2	1.95	0.67
3:PF:83:GLN:O	3:PF:86:ARG:NH2	2.28	0.67
2:QI:256:GLN:O	2:QI:260:VAL:HG12	1.95	0.67
3:RH:330:MET:HG3	3:RH:349:VAL:HG11	1.76	0.67
3:SF:174:LYS:HG3	3:SF:175:VAL:HG12	1.76	0.67
2:VE:49:PHE:HB2	2:VE:53:PHE:HB2	1.76	0.67
3:WH:278:SER:O	3:WH:282:ARG:HB2	1.95	0.67
1:A2:152:ARG:NE	1:A2:155:GLU:OE2	2.27	0.67
2:AG:251:ASP:H	2:AG:254:GLU:CD	1.98	0.67
3:CJ:246:LEU:HD12	3:CJ:352:ALA:HB1	1.77	0.67
2:DG:390:ARG:HA	2:DG:393:HIS:CD2	2.30	0.67
7:E2:9:THR:HG21	7:E2:144:ILE:HD12	1.77	0.67
2:EE:144:GLY:N	25:EE:501:GTP:O2B	2.23	0.67
3:EH:198:GLU:HG2	3:EH:266:PHE:HE2	1.58	0.67
2:GE:88:HIS:HA	2:HE:283:HIS:HE1	1.59	0.67
2:GG:85:GLN:OE1	2:GG:85:GLN:N	2.26	0.67
3:GH:239:CYS:HA	3:GH:246:LEU:HD11	1.76	0.67
3:IH:266:PHE:HB3	3:IH:368:ILE:HD11	1.76	0.67
2:II:81:GLY:O	2:II:84:ARG:NH1	2.28	0.67
3:JF:344:TRP:HA	2:JG:401:LYS:HE2	1.76	0.67
3:LF:211:CYS:HA	3:LF:215:LEU:HB2	1.75	0.67
3:LH:139:LEU:HD21	3:LH:170:VAL:HG22	1.77	0.67
3:ND:15:GLN:NE2	3:ND:222:TYR:HD2	1.93	0.67
3:NF:240:LEU:HD22	3:NF:248:ALA:HB1	1.77	0.67
2:NI:53:PHE:O	2:NI:64:ARG:NH1	2.27	0.67
18:O1:104:ASN:OD1	18:O1:105:ALA:N	2.27	0.67
3:PF:376:GLU:HG2	3:PF:377:LEU:HD12	1.77	0.67
2:PG:306:ASP:OD2	2:PG:309:HIS:ND1	2.28	0.67
2:QI:365:GLY:H	24:YM:40:ILE:HD11	1.59	0.67
3:RF:324:LYS:HE3	2:RG:222:PRO:HD2	1.77	0.67
3:RJ:19:LYS:NZ	3:RJ:223:GLY:O	2.26	0.67
3:SJ:255:VAL:HA	3:SJ:258:VAL:HG12	1.75	0.67
2:TG:67:PHE:HB2	2:TG:92:LEU:HD13	1.75	0.67
2:WG:120:ASP:O	2:WG:123:ARG:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:16:LYS:HA	24:YN:19:GLN:OE1	1.95	0.67
2:BE:51:THR:HG23	2:BE:52:PHE:HD1	1.58	0.67
3:BF:77:ARG:O	3:BF:77:ARG:NH1	2.26	0.67
5:C3:297:PRO:HD3	5:C4:413:ARG:HH22	1.59	0.67
3:CF:198:GLU:HG2	3:CF:266:PHE:HE2	1.60	0.67
6:D7:369:CYS:SG	6:D8:106:ARG:NH2	2.68	0.67
3:EF:42:LEU:HD12	3:EF:243:PRO:HD2	1.77	0.67
8:F3:247:GLN:NE2	8:F3:251:GLU:OE2	2.28	0.67
9:G1:502:ARG:NH1	9:G1:503:PHE:O	2.28	0.67
3:HD:11:GLN:O	3:HD:15:GLN:NE2	2.28	0.67
3:IH:344:TRP:CD1	2:II:401:LYS:HD2	2.30	0.67
3:JF:406:MET:O	3:JF:409:THR:OG1	2.09	0.67
14:K3:492:SER:O	3:LH:340:TYR:OH	2.12	0.67
2:KE:336:LYS:O	2:KE:339:ARG:NH2	2.28	0.67
2:LE:263:PRO:HD3	3:LF:396:HIS:CD2	2.30	0.67
3:MF:99:ASN:OD1	3:MF:142:GLY:HA3	1.95	0.67
18:O2:84:ARG:HH21	18:O2:85:THR:HG23	1.60	0.67
19:P2:356:ILE:HB	19:P2:370:ILE:HD13	1.75	0.67
3:RF:278:SER:HA	3:RF:281:TYR:HB2	1.77	0.67
3:RH:8:GLN:NE2	3:RH:13:GLY:O	2.28	0.67
3:RH:12:CYS:SG	25:RH:501:GTP:H5'	2.35	0.67
3:RJ:345:ILE:HD12	3:RJ:346:PRO:HD2	1.77	0.67
3:SF:198:GLU:HA	3:SF:266:PHE:HE2	1.60	0.67
3:SJ:173:PRO:O	3:SJ:380:ARG:NH2	2.28	0.67
3:TH:4:ILE:HD11	3:TH:131:GLN:HB2	1.77	0.67
3:UF:250:LEU:HD13	3:UF:253:LEU:HD12	1.77	0.67
2:WI:160:ASP:OD1	2:WI:161:TYR:N	2.27	0.67
24:YM:31:HIS:O	24:YM:35:ASN:ND2	2.28	0.67
2:BG:358:GLN:NE2	2:BG:359:PRO:O	2.28	0.66
6:D3:336:ILE:HG22	6:D3:340:LYS:NZ	2.08	0.66
3:DD:48:ASN:O	3:DD:62:ARG:NH2	2.28	0.66
8:F3:256:ASP:OD1	8:F3:257:LYS:N	2.28	0.66
9:G1:423:LEU:HD11	9:G1:437:ARG:HB3	1.76	0.66
2:GE:160:ASP:OD1	2:GE:161:TYR:N	2.28	0.66
2:GE:263:PRO:HD3	3:GF:396:HIS:NE2	2.10	0.66
3:HF:378:PHE:CE1	3:HF:419:VAL:HG22	2.30	0.66
2:HG:175:PRO:HG2	2:HG:304:LYS:HD3	1.76	0.66
2:HG:216:ASN:ND2	2:HG:275:VAL:O	2.27	0.66
3:HH:117:LEU:HD11	3:HH:154:LYS:HD2	1.78	0.66
14:K3:147:ILE:HG12	14:K3:304:LEU:HD11	1.76	0.66
2:LG:85:GLN:OE1	2:LG:85:GLN:N	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:208:ALA:H	2:LG:304:LYS:HZ1	1.43	0.66
2:NE:115:VAL:HG21	2:NE:156:ARG:HD3	1.76	0.66
3:NH:311:LEU:HG	3:NH:312:THR:HG23	1.76	0.66
2:OG:144:GLY:N	25:OG:501:GTP:O2B	2.28	0.66
2:OG:400:ALA:O	2:OG:402:ARG:NH1	2.28	0.66
2:PE:325:PRO:O	2:PE:329:ASN:ND2	2.28	0.66
20:Q1:1421:GLN:O	20:Q1:1512:ARG:NH2	2.27	0.66
2:QE:287:SER:OG	2:QE:290:GLU:OE1	2.12	0.66
2:QI:99:ALA:H	2:QI:145:THR:HG22	1.60	0.66
3:RJ:166:THR:N	3:RJ:198:GLU:OE1	2.19	0.66
2:SE:102:ASN:HD21	2:SE:411:GLU:HG2	1.60	0.66
3:TF:261:PRO:O	3:TF:264:HIS:NE2	2.28	0.66
3:VF:189:VAL:HA	3:VF:192:LEU:HB2	1.75	0.66
3:WH:309:ARG:NH2	3:WH:426:GLN:O	2.28	0.66
22:XC:104:ARG:HB2	22:XC:118:ILE:HD11	1.78	0.66
22:XD:106:SER:HB2	22:XD:109:GLN:HG3	1.76	0.66
24:YN:144:VAL:HA	24:YN:147:PHE:CE1	2.29	0.66
4:B2:331:ARG:NH2	4:B2:336:TYR:OH	2.28	0.66
2:BI:196:GLU:N	2:BI:196:GLU:OE1	2.26	0.66
3:CF:325:GLU:HB3	2:CG:221:ARG:HH11	1.60	0.66
3:FF:211:CYS:HA	3:FF:215:LEU:HB2	1.77	0.66
9:G2:477:SER:OG	9:G2:483:ILE:N	2.27	0.66
2:GE:188:ILE:HD13	2:GE:395:PHE:CZ	2.31	0.66
2:IG:264:ARG:O	2:IG:266:HIS:ND1	2.27	0.66
3:IH:48:ASN:O	3:IH:62:ARG:NH2	2.25	0.66
2:KE:144:GLY:N	25:KE:501:GTP:O2B	2.28	0.66
3:KH:209:ASP:O	3:KH:213:ARG:HG2	1.95	0.66
15:L2:209:LYS:HA	15:L2:212:GLN:HG3	1.77	0.66
3:LD:398:TYR:HD2	3:LD:403:MET:HG2	1.59	0.66
2:LE:99:ALA:H	2:LE:145:THR:HG22	1.60	0.66
16:M2:69:VAL:HG12	16:M2:73:GLN:HE22	1.60	0.66
2:ME:356:ASN:OD1	2:ME:357:TYR:N	2.28	0.66
3:ND:309:ARG:NH1	3:ND:341:PHE:O	2.28	0.66
18:O1:21:ASN:ND2	18:O1:23:SER:O	2.28	0.66
3:OD:163:ILE:HD13	3:OD:250:LEU:HB3	1.76	0.66
2:OE:32:PRO:O	2:OE:85:GLN:NE2	2.28	0.66
2:OG:88:HIS:HB3	2:OG:91:GLN:HB2	1.76	0.66
19:P2:79:ILE:HB	19:P2:96:TRP:HB2	1.76	0.66
2:RI:1:MET:SD	2:RI:2:ARG:N	2.68	0.66
3:TF:77:ARG:O	3:TF:77:ARG:NH1	2.28	0.66
2:TI:81:GLY:O	2:TI:84:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:144:GLY:N	25:VE:501:GTP:O2B	2.23	0.66
2:WE:127:ASP:OD1	2:WE:128:LEU:N	2.28	0.66
2:WI:81:GLY:O	2:WI:84:ARG:NH1	2.28	0.66
22:XE:73:LEU:HD22	22:XE:169:ASP:HB3	1.77	0.66
24:YI:125:LEU:HD21	24:YI:129:GLU:HB2	1.78	0.66
4:B7:202:LYS:H	4:B8:315:HIS:CD2	2.13	0.66
2:BE:76:ASP:HA	2:BE:79:ARG:HE	1.60	0.66
3:CF:375:GLN:HA	3:CF:378:PHE:CZ	2.30	0.66
2:DE:79:ARG:NH1	11:H3:283:PRO:O	2.28	0.66
2:DE:207:GLU:HB2	2:DE:304:LYS:NZ	2.11	0.66
2:DG:189:LEU:HA	2:DG:192:HIS:CE1	2.29	0.66
8:F2:214:ASN:ND2	8:F2:339:THR:HA	2.09	0.66
3:GF:101:TRP:HE1	3:GF:149:THR:HG21	1.59	0.66
2:GG:101:ASN:HA	2:GG:144:GLY:HA2	1.77	0.66
2:GG:287:SER:OG	2:GG:290:GLU:OE1	2.13	0.66
2:HG:329:ASN:HA	2:HG:332:ILE:HG12	1.77	0.66
3:KF:350:LYS:HE3	2:KG:181:VAL:H	1.60	0.66
2:KG:127:ASP:OD1	2:KG:128:LEU:N	2.28	0.66
3:KH:130:LEU:HD13	3:KH:133:PHE:HE1	1.58	0.66
15:L3:240:ASP:O	15:L3:244:ILE:HB	1.95	0.66
3:LD:12:CYS:HB3	25:LD:501:GTP:H5'	1.76	0.66
3:MF:406:MET:O	3:MF:409:THR:OG1	2.09	0.66
2:MG:5:ILE:HB	2:MG:135:PHE:HD1	1.61	0.66
3:NF:215:LEU:O	3:NF:276:ARG:NH1	2.28	0.66
19:P1:18:ALA:HB1	19:P1:364:LYS:HD3	1.75	0.66
19:P2:131:GLY:O	19:P2:135:GLY:N	2.27	0.66
3:QF:152:ILE:O	3:QF:156:ARG:HG2	1.96	0.66
3:QF:324:LYS:HD2	2:QG:221:ARG:HE	1.60	0.66
3:QH:372:THR:HG21	3:QH:426:GLN:HG3	1.78	0.66
2:RE:234:ILE:HD11	2:RE:272:TYR:HB2	1.77	0.66
2:SG:127:ASP:OD1	2:SG:128:LEU:N	2.27	0.66
3:SH:250:LEU:HD13	3:SH:253:LEU:HD12	1.77	0.66
3:CF:279:GLN:HB3	9:G1:307:ASN:HB2	1.78	0.66
3:CJ:63:ALA:O	3:CJ:89:ASN:ND2	2.28	0.66
3:DD:286:VAL:HG21	3:DD:325:GLU:HG3	1.78	0.66
8:F6:93:ARG:O	8:F6:97:ARG:NH1	2.29	0.66
2:FE:5:ILE:O	2:FE:135:PHE:HA	1.96	0.66
3:FH:211:CYS:HA	3:FH:215:LEU:HB3	1.77	0.66
2:GE:396:ASP:OD1	2:GE:397:LEU:N	2.28	0.66
3:GH:12:CYS:SG	3:GH:13:GLY:N	2.69	0.66
2:GI:85:GLN:OE1	2:GI:85:GLN:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:46:ARG:HH22	2:IG:73:THR:HA	1.60	0.66
2:IG:101:ASN:HB3	2:IG:182:VAL:HG11	1.76	0.66
3:JF:345:ILE:HD12	3:JF:346:PRO:HD2	1.77	0.66
14:K3:152:ARG:O	14:K3:156:ARG:NH1	2.26	0.66
2:ME:54:SER:OG	2:ME:64:ARG:NH2	2.29	0.66
3:NH:316:VAL:HG22	3:NH:352:ALA:HB3	1.78	0.66
2:PE:295:CYS:O	2:PE:301:GLN:NE2	2.27	0.66
2:PG:274:PRO:HG3	2:PG:374:ALA:HA	1.77	0.66
2:PG:311:LYS:HE3	2:PG:344:VAL:HA	1.77	0.66
3:QF:319:GLY:HA3	3:QF:363:MET:HE1	1.76	0.66
3:QF:376:GLU:OE1	3:QF:376:GLU:N	2.26	0.66
3:QH:199:THR:HB	3:QH:264:HIS:O	1.95	0.66
2:SG:75:VAL:HG23	2:SG:92:LEU:HD12	1.75	0.66
2:SI:5:ILE:O	2:SI:135:PHE:HA	1.95	0.66
3:VD:331:LEU:HD21	2:VE:177:VAL:HG22	1.78	0.66
2:VG:235:VAL:HA	2:VG:238:ILE:HG12	1.78	0.66
1:A2:205:VAL:HG12	1:A2:206:ARG:NH1	2.10	0.66
2:AE:260:VAL:HG23	2:AE:265:ILE:O	1.95	0.66
3:AF:12:CYS:O	3:AF:15:GLN:N	2.29	0.66
3:AH:12:CYS:HA	25:AH:501:GTP:N2	2.11	0.66
2:AI:176:GLN:HB3	2:AI:390:ARG:HH12	1.60	0.66
2:CG:115:VAL:HA	2:CG:118:VAL:HG22	1.78	0.66
2:CG:147:SER:HB2	2:CG:190:THR:HG21	1.76	0.66
6:D7:346:LYS:HZ2	6:D7:388:LEU:HG	1.59	0.66
3:DF:166:THR:HG1	3:DF:199:THR:HG1	1.38	0.66
2:DG:33:ASP:OD1	2:DG:34:GLY:N	2.28	0.66
3:FF:67:ASP:OD2	3:FF:72:THR:OG1	2.12	0.66
3:GD:39:ASP:OD2	3:GD:359:ARG:NH2	2.28	0.66
2:GG:419:SER:HA	2:GG:422:ARG:HE	1.60	0.66
3:HF:12:CYS:O	3:HF:15:GLN:HB2	1.95	0.66
3:IF:77:ARG:O	3:IF:77:ARG:NH1	2.28	0.66
2:II:220:GLU:O	2:II:221:ARG:NE	2.27	0.66
3:JD:350:LYS:HE3	2:JE:181:VAL:H	1.59	0.66
25:JF:501:GTP:O3G	25:JF:501:GTP:O3'	2.08	0.66
3:KF:345:ILE:HD13	2:KG:398:MET:SD	2.35	0.66
2:LE:89:PRO:HD2	2:ME:280:LYS:HZ2	1.61	0.66
2:LE:236:SER:HA	2:LE:243:ARG:HH12	1.61	0.66
2:ME:168:GLU:O	2:ME:201:ALA:HA	1.95	0.66
2:MG:54:SER:OG	2:MG:64:ARG:NH2	2.29	0.66
2:MG:239:THR:OG1	2:MG:243:ARG:NH1	2.28	0.66
2:NE:150:ALA:O	2:NE:154:MET:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NI:301:GLN:HG3	2:NI:303:VAL:H	1.59	0.66
2:PG:85:GLN:OE1	2:PG:85:GLN:N	2.28	0.66
2:PG:103:TYR:HD1	2:PG:147:SER:HB2	1.61	0.66
20:Q2:1341:ARG:HH12	20:Q2:1445:PRO:HD3	1.59	0.66
3:QF:30:ILE:HG13	3:QF:36:TYR:HB2	1.77	0.66
3:RH:324:LYS:HE3	2:RI:210:TYR:CE1	2.30	0.66
2:RI:256:GLN:OE1	3:RJ:397:TRP:NE1	2.29	0.66
3:RJ:268:PRO:HD2	3:RJ:301:ALA:HB2	1.78	0.66
3:TF:11:GLN:OE1	25:TF:501:GTP:N2	2.28	0.66
3:TF:80:PRO:O	3:TF:83:GLN:NE2	2.28	0.66
3:TF:295:ASP:HB2	3:TF:298:ASN:HB2	1.76	0.66
3:WF:2:ARG:HB3	3:WF:131:GLN:NE2	2.11	0.66
22:XC:1:MET:N	22:XC:69:LEU:O	2.29	0.66
22:XC:94:LEU:HB2	22:XC:152:LEU:HD11	1.76	0.66
24:YK:87:HIS:HA	24:YK:166:GLY:HA3	1.75	0.66
1:A3:215:GLU:OE1	1:A3:215:GLU:N	2.26	0.66
3:AF:73:MET:HA	3:AF:76:VAL:HG22	1.76	0.66
3:AF:247:ASN:HB3	3:AF:252:LYS:HG3	1.78	0.66
2:CG:79:ARG:HH22	11:H3:222:ALA:H	1.42	0.66
2:GE:311:LYS:HG2	2:GE:342:GLN:HB2	1.78	0.66
3:HD:172:SER:OG	3:HD:205:GLU:OE2	2.13	0.66
2:IE:244:PHE:HB2	2:IE:356:ASN:HD21	1.59	0.66
3:JD:344:TRP:HA	2:JE:401:LYS:HE2	1.77	0.66
2:JE:234:ILE:HD11	2:JE:272:TYR:HB2	1.77	0.66
2:JG:99:ALA:HB3	2:JG:145:THR:HA	1.77	0.66
2:KI:318:LEU:O	2:KI:375:VAL:HA	1.95	0.66
2:MG:51:THR:HG23	2:MG:52:PHE:HD1	1.61	0.66
2:MG:339:ARG:HD2	18:O2:25:ALA:HA	1.76	0.66
3:ND:372:THR:HG21	3:ND:426:GLN:HG3	1.78	0.66
3:ND:406:MET:O	3:ND:409:THR:OG1	2.09	0.66
2:NE:26:LEU:HD22	2:NE:363:VAL:HG23	1.78	0.66
3:NF:305:PRO:HB2	3:NF:310:TYR:HE1	1.60	0.66
2:NG:139:HIS:CE1	2:NG:168:GLU:HB3	2.31	0.66
2:NI:54:SER:HB2	2:NI:62:VAL:HB	1.75	0.66
2:NI:208:ALA:H	2:NI:304:LYS:HZ1	1.42	0.66
3:OD:12:CYS:HA	25:OD:501:GTP:HN22	1.59	0.66
25:PF:501:GTP:O3'	25:PF:501:GTP:O3G	2.13	0.66
2:PG:142:GLY:HA3	2:PG:183:GLU:HG2	1.77	0.66
2:RE:16:ILE:HD11	2:RE:138:PHE:HB3	1.77	0.66
2:RG:25:CYS:HB2	2:RG:30:ILE:HB	1.77	0.66
2:RI:67:PHE:HB2	2:RI:92:LEU:HD13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:198:GLU:HA	3:RJ:266:PHE:HE2	1.60	0.66
2:SG:99:ALA:H	2:SG:145:THR:HG22	1.59	0.66
3:SJ:12:CYS:HA	25:SJ:501:GTP:HN22	1.60	0.66
2:UE:207:GLU:HB2	2:UE:304:LYS:HZ1	1.61	0.66
3:UH:372:THR:HG21	3:UH:426:GLN:HB3	1.76	0.66
2:WE:256:GLN:HE22	3:WF:397:TRP:HE1	1.43	0.66
2:WE:273:ALA:HB2	2:WE:295:CYS:HB3	1.76	0.66
3:WF:54:ALA:N	3:WF:58:LYS:O	2.24	0.66
3:WF:211:CYS:HA	3:WF:215:LEU:HB2	1.77	0.66
24:YJ:116:LYS:NZ	24:YJ:117:TYR:O	2.27	0.66
2:AE:262:TYR:HE1	3:AF:393:ALA:HA	1.59	0.66
4:B7:51:ASN:ND2	5:C2:118:GLU:OE1	2.27	0.66
2:BG:50:ASN:O	2:BG:64:ARG:NH1	2.29	0.66
5:C7:258:LEU:HD23	5:C7:261:LYS:HE3	1.75	0.66
6:D8:344:LYS:O	6:D8:347:GLU:HG2	1.96	0.66
3:DF:174:LYS:HG3	3:DF:175:VAL:HG12	1.78	0.66
2:EE:105:ARG:O	2:EE:109:THR:OG1	2.14	0.66
3:FD:70:PRO:HA	3:FD:73:MET:HE2	1.77	0.66
3:HF:261:PRO:O	3:HF:264:HIS:NE2	2.28	0.66
2:JG:115:VAL:HG11	2:JG:152:LEU:HD22	1.78	0.66
2:LG:308:ARG:HH22	2:LG:341:ILE:HD13	1.61	0.66
16:M2:61:LYS:HG3	16:M2:67:ARG:HH12	1.60	0.66
3:MH:309:ARG:NH2	3:MH:426:GLN:O	2.27	0.66
3:MH:349:VAL:O	3:MH:350:LYS:NZ	2.25	0.66
3:PF:324:LYS:HE2	2:PG:222:PRO:HD2	1.77	0.66
20:Q1:1401:GLN:O	20:Q1:1406:LEU:N	2.21	0.66
2:QE:25:CYS:HB2	2:QE:30:ILE:HB	1.76	0.66
2:QG:228:ASN:HA	2:QG:231:ILE:HG12	1.78	0.66
2:RE:349:THR:HG23	3:RF:179:VAL:HG12	1.76	0.66
3:RF:123:GLU:OE2	3:RF:126:SER:OG	2.12	0.66
2:TG:53:PHE:O	2:TG:64:ARG:NH1	2.28	0.66
3:WF:163:ILE:HD11	3:WF:251:ARG:HB2	1.78	0.66
23:XK:70:GLU:HB2	23:XK:77:LYS:HG3	1.78	0.66
23:XK:176:GLN:OE1	23:XK:176:GLN:N	2.29	0.66
2:AI:85:GLN:N	2:AI:85:GLN:OE1	2.28	0.66
2:AI:287:SER:OG	2:AI:290:GLU:OE1	2.13	0.66
4:B2:304:LEU:HA	4:B2:307:LYS:HE2	1.76	0.66
4:B3:223:ARG:O	4:B3:227:ASN:ND2	2.29	0.66
2:BG:33:ASP:OD1	2:BG:34:GLY:N	2.29	0.66
2:BG:306:ASP:OD2	2:BG:309:HIS:N	2.28	0.66
5:C7:275:ARG:NH1	5:C7:276:ASN:O	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:79:ARG:NH1	11:H3:220:GLY:O	2.29	0.66
2:CI:79:ARG:HE	11:H4:218:ILE:HD12	1.60	0.66
6:D7:346:LYS:HE2	6:D7:384:LEU:HD23	1.76	0.66
6:D7:352:VAL:HG12	6:D7:356:ARG:HE	1.61	0.66
2:EG:175:PRO:HA	2:EG:390:ARG:HE	1.58	0.66
3:FD:207:LEU:HD13	3:FD:225:LEU:HD23	1.78	0.66
11:H4:213:ILE:C	11:H4:215:ARG:H	1.98	0.66
3:HD:48:ASN:O	3:HD:62:ARG:NH2	2.29	0.66
3:JD:15:GLN:NE2	25:JD:501:GTP:N1	2.43	0.66
3:JD:305:PRO:HB3	3:JD:373:ALA:HB2	1.76	0.66
14:K3:15:ARG:HE	14:K3:16:VAL:H	1.43	0.66
2:KE:142:GLY:HA3	2:KE:183:GLU:HG2	1.77	0.66
3:LD:144:GLY:N	25:LD:501:GTP:O2B	2.28	0.66
3:LH:189:VAL:HA	3:LH:192:LEU:HB2	1.78	0.66
2:NI:358:GLN:NE2	2:NI:359:PRO:O	2.29	0.66
3:OD:54:ALA:HB3	3:OD:58:LYS:HB2	1.78	0.66
3:OF:172:SER:OG	3:OF:205:GLU:OE2	2.14	0.66
2:PE:229:ARG:HE	2:PE:368:LEU:HD22	1.60	0.66
3:PF:187:LEU:O	3:PF:191:GLN:NE2	2.28	0.66
2:RG:107:HIS:HA	2:RG:152:LEU:HD23	1.78	0.66
2:RG:287:SER:OG	2:RG:290:GLU:OE1	2.13	0.66
3:SJ:250:LEU:HD13	3:SJ:253:LEU:HD12	1.77	0.66
3:TF:54:ALA:HB3	3:TF:58:LYS:HB3	1.78	0.66
2:WE:210:TYR:HD1	2:WE:222:PRO:HG3	1.59	0.66
2:WE:234:ILE:HD11	2:WE:272:TYR:HB2	1.77	0.66
2:DE:84:ARG:HH22	11:H3:277:ARG:HD2	1.61	0.66
2:EG:285:GLN:HE22	2:EG:287:SER:HB3	1.60	0.66
9:G1:355:TYR:HB3	9:G1:361:MET:HB3	1.78	0.66
10:G5:87:ASP:OD1	10:G5:100:ARG:NH1	2.28	0.66
3:GF:42:LEU:HD12	3:GF:243:PRO:HD2	1.76	0.66
11:H4:251:GLN:HA	11:H4:254:PHE:HB3	1.77	0.66
3:HH:390:ARG:NH1	3:HH:391:ARG:HB2	2.11	0.66
3:IH:419:VAL:O	3:IH:423:GLN:NE2	2.29	0.66
2:JE:172:TYR:HB2	2:JE:203:MET:HB2	1.78	0.66
2:LE:2:ARG:NH2	2:LE:250:VAL:O	2.28	0.66
3:ND:12:CYS:HB3	25:ND:501:GTP:O4'	1.96	0.66
2:NG:244:PHE:HB2	2:NG:356:ASN:HD21	1.60	0.66
3:OD:12:CYS:SG	25:OD:501:GTP:H5'	2.35	0.66
3:OF:99:ASN:HB2	3:OF:142:GLY:HA3	1.77	0.66
2:QG:235:VAL:HA	2:QG:238:ILE:HG12	1.78	0.66
2:RG:338:LYS:HZ2	2:RG:340:THR:H	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:88:HIS:HE1	2:SI:90:GLU:HG2	1.60	0.66
2:SI:287:SER:OG	2:SI:290:GLU:OE1	2.11	0.66
3:SJ:11:GLN:HE21	25:SJ:501:GTP:H3'	1.60	0.66
3:UF:215:LEU:O	3:UF:276:ARG:NH1	2.28	0.66
3:UH:60:VAL:HG23	3:UH:86:ARG:HH11	1.61	0.66
3:VD:324:LYS:NZ	2:VE:222:PRO:O	2.26	0.66
2:VE:210:TYR:HE1	2:VE:227:LEU:HD11	1.61	0.66
24:YN:155:SER:HA	24:YN:158:LEU:HG	1.76	0.66
1:A2:400:ARG:NH1	1:A2:401:ASP:OD1	2.29	0.66
2:AI:12:ALA:HB2	25:AI:501:GTP:H5''	1.78	0.66
4:B3:164:LEU:O	4:B3:167:GLU:HG2	1.96	0.66
2:BE:33:ASP:OD1	2:BE:34:GLY:N	2.29	0.66
2:BG:127:ASP:OD1	2:BG:128:LEU:N	2.29	0.66
2:BG:254:GLU:OE1	2:BG:254:GLU:N	2.29	0.66
3:CJ:15:GLN:NE2	25:CJ:501:GTP:N1	2.44	0.66
3:DF:324:LYS:HE3	2:DG:221:ARG:HA	1.76	0.66
9:G2:207:ILE:HD12	9:G2:208:PRO:HD2	1.77	0.66
9:G2:425:ALA:HB2	9:G2:506:LEU:HD11	1.76	0.66
3:GH:86:ARG:HD3	3:HH:281:TYR:HB3	1.78	0.66
3:GH:271:ALA:HB1	3:GH:272:PRO:HD2	1.77	0.66
3:HF:263:LEU:HD21	3:HF:370:ASN:HD21	1.59	0.66
14:K2:183:GLY:O	14:K2:190:LYS:NZ	2.29	0.66
14:K3:490:ALA:O	14:K3:493:GLN:N	2.28	0.66
2:LG:88:HIS:CD2	2:LG:91:GLN:HG3	2.30	0.66
2:LG:172:TYR:CD1	2:LG:203:MET:HG2	2.31	0.66
3:MF:60:VAL:HG23	3:MF:86:ARG:HH11	1.60	0.66
2:MI:76:ASP:OD1	2:MI:79:ARG:NH1	2.29	0.66
19:P1:60:LEU:HD21	19:P1:101:ARG:HG3	1.77	0.66
19:P1:431:ARG:NH2	19:P1:473:ASN:O	2.28	0.66
19:P1:606:SER:OG	19:P1:608:ASP:OD1	2.12	0.66
2:PE:30:ILE:HD13	2:PE:36:MET:HE3	1.77	0.66
3:PH:191:GLN:O	3:PH:195:ASN:ND2	2.29	0.66
20:Q2:1445:PRO:HA	20:Q2:1448:VAL:HG22	1.78	0.66
3:QH:48:ASN:O	3:QH:62:ARG:NH2	2.25	0.66
3:UD:52:ASN:OD1	3:UD:62:ARG:NH1	2.29	0.66
3:UD:65:LEU:HD21	3:UD:73:MET:HG2	1.77	0.66
2:UE:107:HIS:HA	2:UE:152:LEU:HD23	1.78	0.66
3:UF:178:THR:OG1	3:UF:181:GLU:HB2	1.96	0.66
2:VE:251:ASP:OD1	2:VE:252:LEU:N	2.29	0.66
2:WE:308:ARG:NH2	2:WE:340:THR:O	2.29	0.66
3:WF:230:SER:HA	3:WF:233:MET:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WH:156:ARG:HA	3:WH:156:ARG:CZ	2.26	0.66
23:XK:209:ILE:O	23:XK:212:THR:OG1	2.13	0.66
3:AH:60:VAL:HG23	3:AH:86:ARG:HH11	1.60	0.65
5:C8:403:ARG:HH21	5:C8:417:GLN:HE22	1.43	0.65
2:CG:216:ASN:ND2	2:CG:275:VAL:O	2.28	0.65
3:DF:92:PHE:HZ	10:G5:410:LYS:HD2	1.61	0.65
3:DH:15:GLN:HG2	3:DH:222:TYR:CD2	2.30	0.65
2:FE:319:TYR:HD2	2:FE:323:VAL:HG11	1.62	0.65
3:GF:347:ASN:OD1	2:GG:394:LYS:NZ	2.30	0.65
3:IH:345:ILE:HD12	3:IH:346:PRO:HD2	1.76	0.65
2:JE:85:GLN:OE1	2:JE:85:GLN:N	2.29	0.65
3:JH:51:TYR:HB3	3:JH:59:TYR:HB3	1.78	0.65
3:JH:170:VAL:HB	3:JH:203:ASP:HB2	1.78	0.65
3:KH:344:TRP:HA	2:KI:401:LYS:HE2	1.78	0.65
2:LE:102:ASN:HD21	2:LE:411:GLU:HG2	1.59	0.65
2:LG:144:GLY:N	25:LG:501:GTP:O2B	2.27	0.65
3:LH:101:TRP:HB2	3:LH:184:ASN:HD22	1.61	0.65
2:ME:239:THR:OG1	2:ME:243:ARG:NH1	2.28	0.65
3:MH:347:ASN:HB3	2:MI:178:SER:HB3	1.78	0.65
2:MI:3:GLU:N	2:MI:133:GLN:OE1	2.29	0.65
2:MI:306:ASP:OD2	2:MI:309:HIS:ND1	2.26	0.65
3:ND:282:ARG:NH2	3:ND:292:GLN:OE1	2.28	0.65
19:P1:161:ALA:HA	19:P1:178:GLY:HA3	1.78	0.65
19:P2:428:ASP:OD2	19:P2:473:ASN:ND2	2.30	0.65
2:QG:84:ARG:NH2	24:YI:124:HIS:O	2.29	0.65
3:QH:28:HIS:HD2	3:QH:43:GLN:HB2	1.60	0.65
3:QH:302:ALA:HB1	3:QH:377:LEU:HD11	1.76	0.65
2:SE:246:GLY:HA2	2:SE:357:TYR:HD1	1.60	0.65
3:SF:3:GLU:OE2	3:SF:129:CYS:N	2.29	0.65
3:SJ:167:PHE:HA	3:SJ:200:TYR:HB2	1.78	0.65
2:TG:209:ILE:HG21	2:TG:227:LEU:HG	1.76	0.65
3:UF:215:LEU:HD21	3:UF:228:LEU:HD11	1.78	0.65
2:UG:207:GLU:HB2	2:UG:304:LYS:HZ1	1.62	0.65
3:UH:8:GLN:NE2	3:UH:136:THR:OG1	2.29	0.65
2:VG:329:ASN:HA	2:VG:332:ILE:HG12	1.78	0.65
2:WE:245:ASP:O	2:WE:356:ASN:ND2	2.30	0.65
2:WE:358:GLN:NE2	2:WE:359:PRO:O	2.29	0.65
2:WG:205:ASP:OD2	2:WG:304:LYS:NZ	2.29	0.65
3:AF:303:CYS:SG	3:AF:304:ASP:N	2.69	0.65
2:BG:288:VAL:HG11	2:BG:327:ASP:HB2	1.77	0.65
5:C8:155:PHE:O	5:C8:158:SER:OG	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:176:SER:O	3:CF:178:THR:N	2.28	0.65
3:DF:334:GLN:HA	3:DF:341:PHE:HE2	1.61	0.65
2:EG:229:ARG:HE	2:EG:368:LEU:HD22	1.60	0.65
9:G1:299:LYS:HG2	9:G1:300:VAL:HG23	1.78	0.65
10:G5:392:PRO:HA	10:G5:496:SER:HA	1.78	0.65
3:GF:246:LEU:HD12	3:GF:352:ALA:HB1	1.79	0.65
2:GG:417:GLU:OE1	2:GG:417:GLU:N	2.22	0.65
2:GI:189:LEU:HA	2:GI:192:HIS:CE1	2.30	0.65
3:HF:372:THR:HG21	3:HF:426:GLN:HB2	1.79	0.65
3:IF:4:ILE:HD11	3:IF:131:GLN:HB2	1.77	0.65
2:JE:390:ARG:HA	2:JE:393:HIS:CE1	2.30	0.65
2:JG:310:GLY:HA3	2:JG:383:ALA:HB2	1.76	0.65
14:K3:46:MET:N	14:K3:108:ARG:HH21	1.94	0.65
14:K3:326:GLN:OE1	14:K3:330:ASN:ND2	2.28	0.65
3:LD:309:ARG:H	3:LD:372:THR:HG1	1.43	0.65
3:MH:83:GLN:OE1	3:MH:83:GLN:N	2.29	0.65
19:P2:144:LYS:HG3	19:P2:146:ASP:OD1	1.96	0.65
20:Q1:1437:TYR:HB3	20:Q1:1440:LEU:HD13	1.77	0.65
2:RE:1:MET:O	2:RE:133:GLN:NE2	2.29	0.65
3:RF:132:GLY:HA2	3:RF:162:ARG:HB3	1.79	0.65
3:RH:52:ASN:ND2	3:RH:123:GLU:OE2	2.29	0.65
3:RH:197:ASP:OD1	3:RH:198:GLU:N	2.30	0.65
2:RI:105:ARG:O	2:RI:109:THR:OG1	2.11	0.65
2:SI:216:ASN:HD21	2:SI:275:VAL:HG23	1.61	0.65
3:UD:269:GLY:N	3:UD:367:PHE:O	2.30	0.65
3:UH:114:ASP:OD1	3:UH:115:SER:N	2.29	0.65
2:VG:221:ARG:NH1	2:VG:222:PRO:O	2.25	0.65
3:VH:131:GLN:HB3	3:VH:163:ILE:HD12	1.77	0.65
2:BE:413:MET:HG3	2:BE:414:GLU:H	1.60	0.65
3:BF:275:SER:N	3:BF:278:SER:OG	2.28	0.65
2:BG:417:GLU:OE1	2:BG:417:GLU:N	2.22	0.65
2:BI:208:ALA:N	2:BI:304:LYS:HZ1	1.95	0.65
5:C3:121:ARG:HH12	5:C4:375:ILE:HA	1.60	0.65
5:C8:442:GLU:HA	5:C8:445:LEU:HD12	1.77	0.65
25:CF:501:GTP:O3G	25:CF:501:GTP:O3'	2.15	0.65
2:CI:1:MET:HG2	2:CI:2:ARG:H	1.62	0.65
3:CJ:309:ARG:NH2	3:CJ:427:ASP:OD1	2.29	0.65
6:D8:176:LEU:O	6:D8:179:GLU:HG2	1.97	0.65
3:ED:286:VAL:HG11	3:ED:325:GLU:HB2	1.77	0.65
2:EG:1:MET:O	2:EG:133:GLN:NE2	2.27	0.65
2:GE:358:GLN:NE2	2:GE:359:PRO:O	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:H3:12:PRO:HA	11:H3:43:LEU:CD1	2.25	0.65
13:J2:50:ILE:HG22	13:J2:65:ILE:HG22	1.79	0.65
2:JE:388:TRP:HB3	2:JE:425:LEU:HD11	1.76	0.65
3:LD:52:ASN:ND2	3:LD:123:GLU:OE2	2.30	0.65
2:NG:144:GLY:N	25:NG:501:GTP:O2B	2.29	0.65
2:PE:208:ALA:N	2:PE:304:LYS:HZ1	1.94	0.65
2:PG:30:ILE:HA	2:PG:36:MET:HE1	1.77	0.65
2:PI:272:TYR:HE1	2:PI:374:ALA:HB1	1.61	0.65
20:Q1:1376:ARG:NH1	20:Q1:1379:SER:OG	2.29	0.65
2:RG:358:GLN:NE2	2:RG:359:PRO:O	2.29	0.65
2:RG:427:ALA:HA	2:RG:430:LYS:HG2	1.77	0.65
2:SG:391:LEU:HD12	2:SG:395:PHE:HE1	1.61	0.65
3:SH:114:ASP:OD1	3:SH:115:SER:N	2.29	0.65
3:SH:275:SER:O	3:SH:279:GLN:NE2	2.28	0.65
3:SJ:83:GLN:O	3:SJ:86:ARG:NH2	2.29	0.65
2:UE:235:VAL:HA	2:UE:238:ILE:HG12	1.77	0.65
2:UG:156:ARG:HA	2:UG:159:VAL:HG22	1.78	0.65
3:UH:141:GLY:HA3	25:UH:501:GTP:H5''	1.77	0.65
2:VG:208:ALA:N	2:VG:304:LYS:HZ1	1.95	0.65
2:WI:274:PRO:HG3	2:WI:374:ALA:HA	1.78	0.65
22:XE:72:LYS:HE3	23:XL:62:ARG:HH11	1.61	0.65
5:C3:414:ASP:OD1	5:C3:415:MET:N	2.30	0.65
3:CF:276:ARG:HE	9:G1:308:PHE:HZ	1.43	0.65
2:CI:79:ARG:NE	11:H4:218:ILE:HD12	2.11	0.65
3:DD:15:GLN:HE21	3:DD:222:TYR:HD1	1.44	0.65
3:ED:211:CYS:HA	3:ED:215:LEU:HB2	1.76	0.65
3:ED:227:HIS:NE2	9:G1:386:GLY:O	2.26	0.65
2:FG:68:VAL:HG12	2:FG:93:ILE:HB	1.79	0.65
3:GD:19:LYS:NZ	3:GD:223:GLY:O	2.30	0.65
3:GH:207:LEU:HD13	3:GH:225:LEU:HB3	1.77	0.65
3:HD:139:LEU:N	3:HD:168:SER:OG	2.28	0.65
2:HE:192:HIS:HA	2:HE:195:LEU:HD23	1.77	0.65
3:JD:346:PRO:HG2	2:JE:394:LYS:HE2	1.78	0.65
2:JE:205:ASP:OD2	2:JE:304:LYS:NZ	2.23	0.65
2:KI:85:GLN:OE1	2:KI:85:GLN:N	2.27	0.65
2:MG:1:MET:SD	2:MG:2:ARG:N	2.68	0.65
2:MI:329:ASN:HA	2:MI:332:ILE:HG12	1.79	0.65
3:ND:3:GLU:HG2	3:ND:130:LEU:HD23	1.77	0.65
2:NI:117:LEU:O	2:NI:121:ARG:HG2	1.97	0.65
2:NI:137:ILE:HB	2:NI:168:GLU:HA	1.78	0.65
2:NI:152:LEU:HG	2:NI:156:ARG:HH22	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:76:ASP:OD1	2:OI:79:ARG:NH1	2.29	0.65
3:PF:309:ARG:NH1	3:PF:341:PHE:O	2.29	0.65
2:PI:208:ALA:N	2:PI:304:LYS:HZ1	1.95	0.65
2:QE:233:GLN:HE22	2:QE:234:ILE:HD13	1.61	0.65
3:QF:39:ASP:HA	24:YI:17:LEU:HD11	1.76	0.65
3:QF:302:ALA:HB1	3:QF:377:LEU:HD11	1.76	0.65
2:QG:11:GLN:HG3	25:QG:501:GTP:PB	2.37	0.65
2:RE:208:ALA:H	2:RE:304:LYS:NZ	1.94	0.65
3:RF:376:GLU:OE1	3:RF:376:GLU:N	2.26	0.65
3:RF:381:ILE:HA	3:RF:384:GLN:HG2	1.78	0.65
3:SF:191:GLN:HA	3:SF:194:GLU:HG2	1.77	0.65
3:UH:330:MET:HG2	3:UH:349:VAL:HG11	1.79	0.65
3:VF:11:GLN:HE21	25:VF:501:GTP:H3'	1.60	0.65
3:WH:12:CYS:HA	25:WH:501:GTP:N2	2.11	0.65
2:WI:358:GLN:NE2	2:WI:359:PRO:O	2.29	0.65
24:YM:130:ALA:HA	24:YM:134:TYR:HB2	1.78	0.65
2:AE:256:GLN:O	2:AE:260:VAL:HG12	1.96	0.65
3:AH:229:VAL:O	3:AH:232:THR:OG1	2.12	0.65
4:B3:365:ALA:O	4:B3:369:HIS:ND1	2.28	0.65
3:BF:46:ARG:HH22	2:BG:73:THR:HA	1.60	0.65
3:BH:372:THR:HG21	3:BH:426:GLN:HB2	1.79	0.65
2:BI:85:GLN:OE1	2:BI:85:GLN:N	2.24	0.65
2:CI:82:THR:O	2:CI:84:ARG:NH1	2.26	0.65
6:D3:137:ARG:NH1	6:D3:447:GLN:OXT	2.29	0.65
2:DE:54:SER:OG	2:DE:64:ARG:NE	2.30	0.65
3:GH:322:SER:OG	3:GH:324:LYS:NZ	2.20	0.65
2:HG:244:PHE:HB2	2:HG:356:ASN:HD21	1.60	0.65
2:HG:271:THR:HB	2:HG:377:MET:HB2	1.76	0.65
2:IG:27:GLU:HB3	2:IG:361:THR:HG21	1.78	0.65
3:IH:137:HIS:O	3:IH:168:SER:HA	1.95	0.65
2:II:310:GLY:HA3	2:II:383:ALA:HB2	1.77	0.65
3:KD:137:HIS:O	3:KD:168:SER:HA	1.96	0.65
3:KD:282:ARG:NH2	3:KD:292:GLN:OE1	2.29	0.65
2:NE:320:ARG:HD3	2:NE:360:PRO:HG3	1.79	0.65
3:NH:117:LEU:HA	3:NH:120:VAL:HG22	1.79	0.65
2:PE:196:GLU:OE1	2:PE:196:GLU:N	2.27	0.65
2:RE:21:TRP:HZ3	2:RE:52:PHE:HD2	1.43	0.65
2:SI:5:ILE:HD13	2:SI:64:ARG:HB3	1.76	0.65
2:UE:388:TRP:CD1	2:UE:425:LEU:HD11	2.30	0.65
2:UG:32:PRO:O	2:UG:85:GLN:NE2	2.26	0.65
2:UG:229:ARG:NH1	2:UG:233:GLN:OE1	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:53:PHE:CG	2:VG:61:HIS:HB3	2.31	0.65
3:VH:135:LEU:HD12	3:VH:166:THR:HG22	1.79	0.65
2:WE:49:PHE:O	2:WE:52:PHE:N	2.29	0.65
2:WG:254:GLU:OE1	2:WG:254:GLU:N	2.25	0.65
22:XD:78:MET:HB3	22:XD:165:VAL:HG13	1.79	0.65
24:YM:158:LEU:HD22	24:YM:162:VAL:HG11	1.79	0.65
3:AF:173:PRO:O	3:AF:380:ARG:NH2	2.30	0.65
2:AG:205:ASP:OD1	2:AG:304:LYS:NZ	2.29	0.65
4:B8:272:MET:HB3	4:B8:380:LYS:HZ1	1.62	0.65
3:GH:278:SER:O	3:GH:282:ARG:HB2	1.97	0.65
3:GH:324:LYS:HE2	2:GI:222:PRO:HD2	1.79	0.65
2:GI:6:SER:OG	2:GI:8:HIS:NE2	2.30	0.65
2:HE:47:ASP:O	2:HE:50:ASN:N	2.22	0.65
2:IE:32:PRO:O	2:IE:85:GLN:NE2	2.17	0.65
3:IH:374:ILE:HG22	3:IH:378:PHE:HD2	1.62	0.65
2:II:306:ASP:OD2	2:II:309:HIS:ND1	2.28	0.65
3:JF:11:GLN:OE1	25:JF:501:GTP:N2	2.30	0.65
2:JG:279:GLU:OE1	2:JG:283:HIS:NE2	2.29	0.65
3:JH:131:GLN:HB3	3:JH:163:ILE:HD12	1.78	0.65
2:KI:235:VAL:HA	2:KI:238:ILE:HG12	1.79	0.65
2:LG:189:LEU:HD23	2:LG:192:HIS:HE1	1.61	0.65
3:LH:250:LEU:HD13	3:LH:253:LEU:HD12	1.78	0.65
3:MH:245:GLN:N	3:MH:245:GLN:OE1	2.29	0.65
2:NG:325:PRO:O	2:NG:329:ASN:ND2	2.29	0.65
3:NH:189:VAL:HA	3:NH:192:LEU:HB2	1.78	0.65
19:P2:18:ALA:HB3	19:P2:613:ARG:HB3	1.77	0.65
19:P2:231:LYS:HG2	19:P2:240:ALA:HB3	1.78	0.65
19:P2:568:LEU:HB2	19:P2:570:LYS:HE3	1.77	0.65
2:PI:329:ASN:HA	2:PI:332:ILE:HG12	1.78	0.65
3:QF:252:LYS:NZ	2:QG:101:ASN:OD1	2.20	0.65
3:QF:421:GLU:HA	3:QF:424:GLN:HE21	1.62	0.65
3:QH:345:ILE:HD12	3:QH:346:PRO:HD2	1.79	0.65
2:RE:32:PRO:O	2:RE:85:GLN:NE2	2.30	0.65
2:RI:413:MET:HG3	2:RI:414:GLU:H	1.61	0.65
2:SE:362:VAL:HA	2:SE:368:LEU:HD11	1.78	0.65
2:SG:288:VAL:HG21	2:SG:328:VAL:HG12	1.79	0.65
3:TH:316:VAL:HG22	3:TH:352:ALA:HB3	1.79	0.65
2:UE:49:PHE:HB2	2:UE:53:PHE:HB2	1.78	0.65
3:UF:194:GLU:OE1	3:UF:195:ASN:ND2	2.30	0.65
3:VF:19:LYS:NZ	3:VF:223:GLY:O	2.30	0.65
3:VF:250:LEU:HD13	3:VF:253:LEU:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:12:CYS:HA	25:VH:501:GTP:N2	2.11	0.65
2:WE:2:ARG:HG2	2:WE:242:LEU:HD23	1.78	0.65
22:XE:86:TYR:HA	22:XE:107:ASN:HD21	1.62	0.65
3:AH:12:CYS:SG	3:AH:13:GLY:N	2.69	0.65
2:BE:216:ASN:ND2	2:BE:275:VAL:O	2.29	0.65
3:BF:182:PRO:HA	3:BF:381:ILE:HD11	1.78	0.65
3:BF:316:VAL:HG22	3:BF:352:ALA:HB3	1.79	0.65
6:D4:363:ARG:HB3	6:D4:367:GLU:HB3	1.78	0.65
3:DD:324:LYS:HE2	2:DE:222:PRO:HD2	1.79	0.65
2:DG:15:GLN:HG2	25:DG:501:GTP:HN1	1.61	0.65
2:DG:107:HIS:CD2	2:DG:152:LEU:HB2	2.32	0.65
3:ED:40:SER:HB2	3:ED:43:GLN:HG2	1.78	0.65
2:EG:262:TYR:HE1	3:EH:393:ALA:HA	1.60	0.65
2:GG:108:TYR:O	2:GG:112:LYS:NZ	2.28	0.65
3:IF:12:CYS:HA	25:IF:501:GTP:N2	2.11	0.65
2:LI:160:ASP:OD1	2:LI:161:TYR:N	2.29	0.65
3:MH:415:MET:HE3	3:MH:418:LEU:HB3	1.79	0.65
2:MI:1:MET:SD	2:MI:2:ARG:N	2.70	0.65
17:N3:160:LYS:HA	17:N3:166:PHE:HD1	1.62	0.65
3:ND:8:GLN:HB3	3:ND:65:LEU:HA	1.77	0.65
2:NI:176:GLN:NE2	2:NI:207:GLU:OE2	2.30	0.65
2:OG:245:ASP:O	2:OG:356:ASN:ND2	2.29	0.65
19:P1:353:LYS:HA	19:P1:376:THR:HA	1.78	0.65
3:PH:345:ILE:HD12	3:PH:346:PRO:HD2	1.78	0.65
3:QF:344:TRP:HA	2:QG:401:LYS:HE2	1.77	0.65
3:RJ:246:LEU:HD12	3:RJ:352:ALA:HB1	1.79	0.65
2:SG:254:GLU:O	2:SG:258:ASN:ND2	2.27	0.65
2:TG:99:ALA:HB3	2:TG:145:THR:HA	1.79	0.65
3:TH:28:HIS:O	3:TH:43:GLN:NE2	2.30	0.65
3:TJ:83:GLN:O	3:TJ:86:ARG:NH2	2.30	0.65
2:UG:329:ASN:HA	2:UG:332:ILE:HG12	1.78	0.65
3:VD:330:MET:HG2	3:VD:349:VAL:HG11	1.77	0.65
2:WG:140:SER:HA	2:WG:170:ALA:HB1	1.78	0.65
2:WG:390:ARG:HA	2:WG:393:HIS:CD2	2.32	0.65
23:XJ:182:ASN:O	23:XJ:185:LYS:NZ	2.24	0.65
24:YI:110:LEU:HD13	24:YI:140:LEU:HD22	1.77	0.65
2:AI:188:ILE:HG13	2:AI:421:ALA:HB1	1.78	0.65
4:B2:118:THR:OG1	6:D4:413:GLU:OE2	2.10	0.65
4:B7:307:LYS:HZ3	4:B7:349:ILE:HA	1.62	0.65
2:BE:70:LEU:HD13	2:BE:95:GLY:HA3	1.78	0.65
2:BE:234:ILE:HD11	2:BE:272:TYR:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:115:VAL:HG11	2:BI:152:LEU:HD22	1.79	0.65
2:BI:127:ASP:OD1	2:BI:128:LEU:N	2.29	0.65
2:BI:390:ARG:O	2:BI:394:LYS:HG2	1.97	0.65
3:CH:260:PHE:HB2	3:CH:263:LEU:HD23	1.77	0.65
6:D7:340:LYS:HA	6:D7:343:ILE:HD12	1.78	0.65
2:DE:85:GLN:OE1	2:DE:85:GLN:N	2.28	0.65
3:DF:113:VAL:HB	3:DF:154:LYS:HE3	1.78	0.65
3:ED:175:VAL:HG22	3:ED:177:ASP:H	1.62	0.65
8:F6:100:ASP:O	8:F6:104:ARG:HG3	1.97	0.65
8:F6:302:ASP:O	8:F6:306:HIS:ND1	2.19	0.65
3:HF:137:HIS:O	3:HF:168:SER:HA	1.97	0.65
2:HI:12:ALA:HB1	25:HI:501:GTP:C2	2.31	0.65
3:IF:239:CYS:SG	3:IF:248:ALA:HA	2.36	0.65
2:II:67:PHE:HB2	2:II:92:LEU:HD13	1.78	0.65
2:JE:16:ILE:HD11	2:JE:138:PHE:HB3	1.79	0.65
3:ND:222:TYR:HA	3:ND:225:LEU:HD13	1.79	0.65
18:O2:79:VAL:HG11	18:O2:92:LEU:HD21	1.79	0.65
2:OE:220:GLU:HG2	2:OE:221:ARG:HG2	1.78	0.65
3:OH:12:CYS:SG	25:OH:501:GTP:H5'	2.37	0.65
3:OH:37:HIS:HA	24:YN:64:ARG:NH1	2.11	0.65
19:P2:207:ILE:O	19:P2:225:THR:N	2.29	0.65
3:PH:28:HIS:O	3:PH:43:GLN:NE2	2.30	0.65
2:PI:12:ALA:HB1	25:PI:501:GTP:C2	2.31	0.65
2:RI:154:MET:HA	2:RI:157:LEU:HG	1.78	0.65
3:RJ:164:MET:HG2	3:RJ:196:THR:HA	1.79	0.65
3:SF:137:HIS:O	3:SF:168:SER:HA	1.97	0.65
2:SG:6:SER:HA	2:SG:136:LEU:HB2	1.79	0.65
2:SG:25:CYS:HB2	2:SG:30:ILE:HB	1.77	0.65
3:SH:48:ASN:O	3:SH:62:ARG:NH2	2.30	0.65
3:TF:19:LYS:O	3:TF:22:GLU:HG3	1.97	0.65
3:VH:255:VAL:HA	3:VH:258:VAL:HG22	1.77	0.65
3:WF:77:ARG:HD2	3:WF:82:GLY:HA3	1.79	0.65
2:WI:270:ALA:HB3	2:WI:302:MET:HE2	1.78	0.65
1:A2:367:ARG:HH21	10:G5:182:GLY:HA2	1.62	0.65
5:C3:216:GLU:N	5:C3:216:GLU:OE1	2.30	0.65
6:D8:363:ARG:HH21	6:D8:369:CYS:N	1.94	0.65
3:DH:271:ALA:HB1	3:DH:272:PRO:HD2	1.79	0.65
8:F2:396:LEU:HB2	8:F2:416:LEU:HD21	1.77	0.65
8:F2:410:ASP:HB3	8:F2:412:PRO:HD2	1.78	0.65
8:F7:402:ARG:HD2	8:F7:407:LEU:HA	1.77	0.65
10:G5:33:ARG:NH1	3:MH:92:PHE:H	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G5:698:ASN:OD1	10:G5:700:ARG:NH1	2.29	0.65
3:GD:36:TYR:HE2	3:GD:44:LEU:HD12	1.62	0.65
2:GE:260:VAL:HG13	3:GF:397:TRP:HH2	1.62	0.65
3:GF:141:GLY:HA3	25:GF:501:GTP:H5''	1.79	0.65
3:HD:372:THR:HB	3:HD:375:GLN:HE22	1.60	0.65
2:HE:320:ARG:HD3	2:HE:360:PRO:HG3	1.77	0.65
2:IE:326:LYS:HE2	3:IF:220:PRO:HG3	1.77	0.65
3:IF:419:VAL:O	3:IF:423:GLN:NE2	2.30	0.65
3:IH:84:ILE:O	3:IH:86:ARG:NH1	2.30	0.65
14:K2:474:TYR:O	14:K2:478:GLN:NE2	2.29	0.65
3:LD:46:ARG:HH12	2:LE:73:THR:HG23	1.62	0.65
3:LH:392:LYS:HB2	3:LH:395:LEU:HD13	1.79	0.65
2:MI:172:TYR:N	2:MI:204:VAL:O	2.30	0.65
2:NE:53:PHE:HB3	2:NE:61:HIS:HB3	1.79	0.65
3:NF:184:ASN:ND2	3:NF:398:TYR:OH	2.30	0.65
2:NG:286:LEU:HD11	2:NG:373:ARG:H	1.62	0.65
3:OF:41:ASP:HB2	24:YK:20:GLN:HG2	1.77	0.65
3:OF:345:ILE:HA	2:OG:398:MET:HE1	1.78	0.65
2:OI:425:LEU:HD12	2:OI:428:LEU:HD12	1.78	0.65
19:P2:229:ILE:HB	19:P2:243:GLY:HA2	1.78	0.65
3:QF:226:ASN:HA	3:QF:229:VAL:HG22	1.79	0.65
3:QH:344:TRP:HD1	2:QI:401:LYS:HD2	1.62	0.65
2:QI:332:ILE:HA	2:QI:335:ILE:HD12	1.77	0.65
2:RE:188:ILE:HG12	2:RE:421:ALA:HB1	1.79	0.65
3:RF:12:CYS:HB3	25:RF:501:GTP:H5'	1.78	0.65
3:RF:155:ILE:HA	3:RF:158:GLU:HB2	1.77	0.65
2:RG:326:LYS:HE2	3:RH:218:THR:O	1.96	0.65
2:SE:311:LYS:NZ	2:SE:343:PHE:O	2.27	0.65
3:SF:273:LEU:N	3:SF:292:GLN:HE22	1.94	0.65
2:TG:272:TYR:CZ	2:TG:274:PRO:HG2	2.32	0.65
3:VD:51:TYR:HB3	3:VD:59:TYR:HB3	1.77	0.65
2:VE:287:SER:OG	2:VE:290:GLU:OE1	2.14	0.65
2:VG:319:TYR:HA	2:VG:374:ALA:O	1.96	0.65
3:WH:426:GLN:NE2	3:WH:427:ASP:OD2	2.29	0.65
2:AG:385:ALA:HA	2:AG:388:TRP:HD1	1.62	0.65
3:AH:376:GLU:OE1	3:AH:376:GLU:N	2.26	0.65
3:AH:392:LYS:HB2	3:AH:395:LEU:HD13	1.77	0.65
4:B2:410:THR:O	5:C8:239:LYS:NZ	2.21	0.65
4:B3:36:HIS:O	4:B3:40:GLN:NE2	2.29	0.65
2:BI:207:GLU:HB2	2:BI:304:LYS:HZ1	1.61	0.65
3:EH:289:LEU:O	3:EH:293:MET:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:101:TRP:HB2	3:GD:184:ASN:HD22	1.62	0.65
3:GF:36:TYR:HE2	3:GF:44:LEU:HD12	1.62	0.65
3:HF:33:THR:O	3:HF:58:LYS:NZ	2.30	0.65
3:HH:77:ARG:HA	3:HH:82:GLY:HA3	1.79	0.65
3:JH:282:ARG:NH2	3:JH:292:GLN:OE1	2.30	0.65
3:MF:178:THR:HB	3:MF:181:GLU:HB2	1.78	0.65
2:MG:196:GLU:OE1	2:MG:196:GLU:N	2.29	0.65
2:NE:54:SER:HB2	2:NE:62:VAL:HB	1.78	0.65
2:OE:196:GLU:N	2:OE:196:GLU:OE1	2.28	0.65
3:OF:380:ARG:O	3:OF:384:GLN:HG2	1.97	0.65
2:OI:1:MET:O	2:OI:133:GLN:NE2	2.30	0.65
2:PE:34:GLY:HA2	2:PE:86:LEU:HD21	1.78	0.65
2:PG:417:GLU:HA	2:PG:420:GLU:HG2	1.79	0.65
2:PI:34:GLY:HA2	2:PI:86:LEU:HD21	1.79	0.65
2:QE:1:MET:O	2:QE:133:GLN:NE2	2.30	0.65
2:QG:60:LYS:NZ	2:RG:282:TYR:O	2.30	0.65
2:QG:70:LEU:HA	2:QG:95:GLY:HA3	1.77	0.65
3:RF:246:LEU:HB2	3:RF:352:ALA:HB1	1.78	0.65
3:RH:162:ARG:HA	3:RH:251:ARG:HH22	1.61	0.65
3:RH:191:GLN:O	3:RH:195:ASN:ND2	2.27	0.65
3:RH:374:ILE:HG22	3:RH:378:PHE:HD2	1.61	0.65
2:RI:274:PRO:HG3	2:RI:374:ALA:HA	1.79	0.65
2:RI:311:LYS:HE3	2:RI:344:VAL:HA	1.79	0.65
3:SF:251:ARG:NH1	2:SG:105:ARG:HH12	1.95	0.65
3:SF:266:PHE:HB3	3:SF:368:ILE:HD11	1.78	0.65
3:VF:247:ASN:HB3	3:VF:252:LYS:HG3	1.79	0.65
22:XE:86:TYR:O	22:XE:159:ASN:ND2	2.26	0.65
2:EG:213:CYS:HA	2:EG:217:LEU:HB2	1.78	0.64
2:EG:280:LYS:O	2:EG:284:GLU:HB2	1.97	0.64
2:FE:326:LYS:NZ	3:FF:211:CYS:SG	2.69	0.64
11:H3:10:PHE:HA	11:H3:15:HIS:NE2	2.12	0.64
3:HD:322:SER:OG	3:HD:324:LYS:NZ	2.27	0.64
2:II:1:MET:SD	2:II:50:ASN:ND2	2.69	0.64
2:JG:98:ASP:OD1	2:JG:105:ARG:NH1	2.27	0.64
2:ME:75:VAL:HG23	2:ME:92:LEU:HD12	1.77	0.64
2:ME:262:TYR:HE1	3:MF:393:ALA:HA	1.61	0.64
2:NI:220:GLU:HG2	2:NI:221:ARG:HG2	1.78	0.64
2:NI:256:GLN:O	2:NI:260:VAL:HG12	1.96	0.64
3:OH:330:MET:HG2	3:OH:349:VAL:HG11	1.79	0.64
2:QI:188:ILE:HG13	2:QI:421:ALA:HB1	1.80	0.64
3:RH:246:LEU:HB3	3:RH:353:VAL:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:420:SER:O	3:RH:424:GLN:NE2	2.29	0.64
2:RI:368:LEU:HG	2:RI:369:ALA:H	1.61	0.64
3:RJ:137:HIS:O	3:RJ:168:SER:HA	1.97	0.64
2:SE:34:GLY:HA2	2:SE:86:LEU:HD21	1.78	0.64
3:SF:374:ILE:HA	3:SF:377:LEU:HD13	1.79	0.64
3:SH:139:LEU:HD21	3:SH:170:VAL:HA	1.80	0.64
3:SH:374:ILE:HA	3:SH:377:LEU:HD13	1.78	0.64
3:SJ:211:CYS:HA	3:SJ:215:LEU:HB2	1.78	0.64
2:TI:115:VAL:HA	2:TI:118:VAL:HG12	1.79	0.64
3:UH:190:HIS:HD2	3:UH:191:GLN:HE21	1.45	0.64
22:XD:1:MET:H1	22:XD:68:THR:HG23	1.62	0.64
3:AF:209:ASP:O	3:AF:213:ARG:HG2	1.97	0.64
3:AH:77:ARG:NH1	10:G5:129:THR:O	2.29	0.64
3:AH:117:LEU:HB3	3:AH:121:ARG:HH12	1.61	0.64
3:AH:262:ARG:NH2	23:XK:230:TYR:O	2.30	0.64
2:AI:180:ALA:HB3	2:AI:183:GLU:HG2	1.79	0.64
5:C3:374:GLN:O	5:C3:377:MET:HB3	1.97	0.64
3:CH:324:LYS:HE2	2:CI:222:PRO:HG2	1.78	0.64
3:DH:378:PHE:HA	3:DH:381:ILE:HG12	1.78	0.64
3:EF:152:ILE:HA	3:EF:155:ILE:HG12	1.78	0.64
25:EF:501:GTP:O3G	25:EF:501:GTP:O3'	2.06	0.64
8:F6:260:ALA:HB2	8:F7:406:GLU:HG3	1.78	0.64
10:G5:433:ILE:HG12	10:G5:457:TYR:CD1	2.32	0.64
3:GD:40:SER:HB2	3:GD:43:GLN:HG2	1.80	0.64
2:GG:216:ASN:HD21	2:GG:275:VAL:HG23	1.60	0.64
3:HD:192:LEU:HD21	3:HD:199:THR:HG21	1.78	0.64
3:HD:282:ARG:NH2	3:HD:292:GLN:OE1	2.26	0.64
2:II:6:SER:OG	2:II:8:HIS:NE2	2.30	0.64
2:II:98:ASP:OD1	2:II:105:ARG:NH2	2.29	0.64
3:JF:42:LEU:HD11	3:JF:356:ILE:HG13	1.78	0.64
2:KE:251:ASP:N	2:KE:254:GLU:OE2	2.30	0.64
3:KH:234:SER:O	3:KH:238:THR:HG23	1.98	0.64
3:LD:239:CYS:SG	3:LD:246:LEU:HD11	2.37	0.64
2:LE:189:LEU:HD23	2:LE:192:HIS:HE1	1.62	0.64
3:LH:143:THR:HG22	3:LH:147:MET:HE1	1.78	0.64
3:NH:152:ILE:HA	3:NH:155:ILE:HG22	1.79	0.64
2:NI:273:ALA:HB2	2:NI:295:CYS:HB3	1.78	0.64
2:OE:287:SER:OG	2:OE:290:GLU:OE1	2.15	0.64
2:OG:311:LYS:N	2:OG:382:THR:OG1	2.31	0.64
2:OG:325:PRO:O	2:OG:329:ASN:ND2	2.30	0.64
19:P2:387:LYS:HA	19:P2:403:PRO:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:52:ASN:OD1	3:PF:62:ARG:NH1	2.30	0.64
2:PG:88:HIS:HB3	2:PG:91:GLN:HB2	1.79	0.64
3:QF:324:LYS:HE2	2:QG:222:PRO:HD2	1.77	0.64
2:RI:310:GLY:HA3	2:RI:383:ALA:HB2	1.78	0.64
3:SF:305:PRO:HB3	3:SF:373:ALA:HB2	1.79	0.64
2:SG:137:ILE:HB	2:SG:168:GLU:HA	1.79	0.64
2:SG:311:LYS:HG2	2:SG:342:GLN:HB3	1.80	0.64
2:SG:352:LYS:NZ	3:SH:178:THR:OG1	2.30	0.64
3:SJ:372:THR:HG21	3:SJ:426:GLN:HG3	1.79	0.64
2:UE:1:MET:O	2:UE:133:GLN:NE2	2.30	0.64
2:WE:53:PHE:HB3	2:WE:61:HIS:HB3	1.79	0.64
2:WE:65:ALA:O	2:WE:91:GLN:NE2	2.30	0.64
3:AF:175:VAL:HG22	3:AF:177:ASP:H	1.62	0.64
3:AF:197:ASP:OD1	3:AF:198:GLU:N	2.31	0.64
2:AG:76:ASP:OD1	2:AG:79:ARG:NH1	2.30	0.64
2:AG:178:SER:OG	2:AG:180:ALA:O	2.16	0.64
2:AG:417:GLU:OE1	2:AG:417:GLU:N	2.26	0.64
3:BF:197:ASP:O	3:BF:264:HIS:ND1	2.30	0.64
3:CF:11:GLN:HE21	25:CF:501:GTP:H3'	1.62	0.64
2:CI:89:PRO:HD3	2:DG:283:HIS:HE1	1.61	0.64
2:CI:325:PRO:O	2:CI:329:ASN:ND2	2.31	0.64
2:DG:127:ASP:OD1	2:DG:128:LEU:N	2.30	0.64
2:DG:207:GLU:HB2	2:DG:304:LYS:HZ1	1.61	0.64
3:DH:345:ILE:HD12	3:DH:346:PRO:HD2	1.79	0.64
2:EE:81:GLY:O	2:EE:84:ARG:NH1	2.30	0.64
2:EE:318:LEU:HB3	2:EE:376:CYS:HB3	1.79	0.64
8:F6:201:ARG:NH1	8:F6:461:THR:O	2.29	0.64
8:F6:208:HIS:ND1	8:F6:212:GLU:OE2	2.30	0.64
8:F7:413:GLN:OE1	8:F7:413:GLN:N	2.29	0.64
3:FF:172:SER:OG	3:FF:204:ASN:OD1	2.15	0.64
10:G5:232:PHE:HE2	10:G5:353:LEU:HD22	1.61	0.64
3:GH:114:ASP:OD1	3:GH:115:SER:N	2.29	0.64
2:GI:5:ILE:HB	2:GI:135:PHE:HD1	1.62	0.64
3:HD:111:GLU:OE1	3:HD:111:GLU:N	2.31	0.64
2:HG:68:VAL:HG12	2:HG:93:ILE:HB	1.79	0.64
3:IF:102:ALA:H	3:IF:398:TYR:HE1	1.43	0.64
3:JF:268:PRO:HD2	3:JF:301:ALA:HB2	1.78	0.64
2:JG:172:TYR:N	2:JG:204:VAL:O	2.28	0.64
3:KD:12:CYS:HB3	25:KD:501:GTP:H5'	1.79	0.64
2:KE:88:HIS:HE1	2:KE:90:GLU:HB2	1.62	0.64
15:L2:193:ARG:NH1	15:L2:244:ILE:O	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:101:TRP:HB2	3:LD:184:ASN:HD22	1.61	0.64
2:LE:32:PRO:O	2:LE:85:GLN:NE2	2.29	0.64
2:MG:46:ASP:OD1	2:MG:50:ASN:ND2	2.29	0.64
2:MG:234:ILE:O	2:MG:237:SER:OG	2.14	0.64
2:NE:25:CYS:HB2	2:NE:30:ILE:HB	1.80	0.64
2:OE:12:ALA:HB2	25:OE:501:GTP:H5''	1.79	0.64
2:OG:84:ARG:HA	2:OG:87:PHE:HB2	1.77	0.64
2:PI:358:GLN:NE2	2:PI:359:PRO:O	2.29	0.64
3:RF:139:LEU:H	3:RF:168:SER:HG	1.43	0.64
3:RF:410:GLU:O	3:RF:414:ASN:ND2	2.30	0.64
2:TG:313:MET:SD	2:TG:380:ASN:HB3	2.36	0.64
3:TJ:269:GLY:N	3:TJ:367:PHE:O	2.30	0.64
3:UF:189:VAL:HA	3:UF:192:LEU:HB2	1.78	0.64
2:UG:358:GLN:NE2	2:UG:359:PRO:O	2.30	0.64
2:VE:256:GLN:OE1	3:VF:397:TRP:NE1	2.21	0.64
2:WE:194:THR:HB	2:WE:198:SER:HB2	1.79	0.64
2:WE:208:ALA:H	2:WE:304:LYS:HZ1	1.44	0.64
23:XL:180:ILE:HG12	23:XL:184:PHE:CE2	2.32	0.64
1:A3:244:GLN:HG3	4:B2:245:LEU:HD13	1.80	0.64
2:AE:214:ARG:HH22	17:N2:92:ILE:HD11	1.63	0.64
2:AE:338:LYS:HZ3	2:AE:339:ARG:H	1.45	0.64
2:BG:66:VAL:HA	2:BG:91:GLN:NE2	2.08	0.64
5:C3:174:LEU:HA	5:C3:322:ARG:HH12	1.61	0.64
6:D8:304:PHE:HZ	6:D8:426:ASP:HB2	1.61	0.64
3:FD:280:GLN:HB3	9:G1:430:ILE:HG13	1.79	0.64
2:FE:46:ASP:OD1	2:FE:50:ASN:ND2	2.31	0.64
2:FE:208:ALA:N	2:FE:304:LYS:HZ1	1.95	0.64
3:FF:375:GLN:N	3:FF:375:GLN:OE1	2.29	0.64
3:GD:182:PRO:HB2	3:GD:388:MET:CE	2.27	0.64
2:GE:88:HIS:CE1	2:GE:121:ARG:HH22	2.15	0.64
11:H3:238:ASP:OD1	11:H3:239:GLY:N	2.30	0.64
2:IE:211:ASP:O	2:IE:215:ARG:HB3	1.97	0.64
2:IG:67:PHE:HB2	2:IG:92:LEU:HD13	1.79	0.64
3:KD:267:MET:HB2	3:KD:301:ALA:HB3	1.79	0.64
3:KH:262:ARG:O	3:KH:422:TYR:OH	2.13	0.64
15:L2:36:LYS:O	15:L2:40:LYS:NZ	2.30	0.64
2:NG:60:LYS:HG3	2:OG:283:HIS:HB2	1.80	0.64
2:OE:184:PRO:HB2	2:OE:395:PHE:HD2	1.62	0.64
3:OH:305:PRO:HB2	3:OH:310:TYR:HE1	1.62	0.64
2:OI:119:LEU:HD23	2:OI:122:ILE:HD11	1.79	0.64
19:P2:15:GLU:HG3	19:P2:615:LYS:HE3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P2:105:ALA:HB1	19:P2:145:ARG:HH11	1.61	0.64
2:PG:5:ILE:O	2:PG:135:PHE:HA	1.97	0.64
3:PH:6:HIS:ND1	3:PH:134:GLN:O	2.31	0.64
2:PI:399:TYR:OH	2:PI:415:GLU:OE2	2.15	0.64
20:Q1:1364:LEU:HA	20:Q1:1367:VAL:HG12	1.80	0.64
2:QE:196:GLU:N	2:QE:196:GLU:OE1	2.28	0.64
2:QI:172:TYR:N	2:QI:204:VAL:O	2.28	0.64
2:RE:273:ALA:HB2	2:RE:295:CYS:HB3	1.80	0.64
3:SJ:21:TRP:HA	3:SJ:24:ILE:HD12	1.78	0.64
3:SJ:309:ARG:NH1	3:SJ:341:PHE:O	2.30	0.64
3:VF:52:ASN:OD1	3:VF:62:ARG:NH1	2.28	0.64
2:VG:88:HIS:CE1	2:VG:121:ARG:HH22	2.15	0.64
3:VH:19:LYS:NZ	3:VH:223:GLY:O	2.30	0.64
2:WE:36:MET:H	2:WE:42:ILE:HD11	1.61	0.64
22:XC:47:LEU:HB2	22:XC:162:ILE:HB	1.79	0.64
1:A2:336:ARG:HH22	1:A3:59:VAL:HA	1.63	0.64
3:AF:299:MET:SD	3:AF:301:ALA:N	2.65	0.64
2:AG:283:HIS:HE1	2:MG:88:HIS:CD2	2.15	0.64
3:AH:323:MET:SD	3:AH:323:MET:N	2.66	0.64
2:AI:119:LEU:HA	2:AI:122:ILE:HG22	1.78	0.64
5:C2:264:ALA:HB2	5:C3:410:GLU:HG3	1.79	0.64
5:C3:334:ASN:ND2	7:E2:182:ASP:OD1	2.30	0.64
3:CF:11:GLN:O	3:CF:15:GLN:NE2	2.30	0.64
3:CH:323:MET:N	3:CH:323:MET:SD	2.70	0.64
3:DD:44:LEU:HD11	11:H3:290:PRO:HD3	1.80	0.64
7:E2:47:VAL:HG12	7:E2:64:PHE:HA	1.78	0.64
2:EE:358:GLN:NE2	2:EE:359:PRO:O	2.30	0.64
2:EG:209:ILE:HG21	2:EG:227:LEU:HG	1.78	0.64
25:FF:502:GTP:HN1	2:FG:15:GLN:HG3	1.62	0.64
10:G5:182:GLY:O	10:G5:184:LYS:NZ	2.27	0.64
10:G5:259:THR:OG1	10:G5:282:GLY:O	2.15	0.64
2:GG:219:ILE:HG13	2:GG:221:ARG:H	1.61	0.64
3:IH:316:VAL:HG22	3:IH:352:ALA:HB3	1.79	0.64
3:LD:12:CYS:HA	25:LD:501:GTP:HN22	1.62	0.64
2:LE:229:ARG:HH12	2:LE:233:GLN:HB2	1.63	0.64
2:LG:415:GLU:N	2:LG:415:GLU:OE1	2.29	0.64
2:LI:1:MET:SD	2:LI:2:ARG:N	2.70	0.64
3:OD:247:ASN:HB3	3:OD:252:LYS:HG2	1.80	0.64
3:OH:273:LEU:H	3:OH:292:GLN:HE22	1.46	0.64
2:OI:254:GLU:OE1	2:OI:254:GLU:N	2.27	0.64
19:P1:15:GLU:HG3	19:P1:615:LYS:HD3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:98:ASP:O	2:PE:105:ARG:NH2	2.27	0.64
2:PG:358:GLN:NE2	2:PG:359:PRO:O	2.31	0.64
3:PH:170:VAL:N	3:PH:202:ILE:O	2.27	0.64
20:Q1:1404:VAL:HG23	20:Q1:1405:LEU:HD12	1.78	0.64
2:RE:49:PHE:HB2	2:RE:53:PHE:HB2	1.79	0.64
2:RI:209:ILE:HG21	2:RI:227:LEU:HG	1.79	0.64
3:SF:246:LEU:HB2	3:SF:352:ALA:HB1	1.79	0.64
3:SF:324:LYS:HE2	2:SG:222:PRO:HG2	1.80	0.64
3:TF:17:GLY:HA2	3:TF:20:PHE:HB3	1.80	0.64
3:TH:290:THR:HA	3:TH:293:MET:HG3	1.80	0.64
3:VD:5:VAL:HG23	3:VD:130:LEU:HD21	1.80	0.64
2:VE:235:VAL:HA	2:VE:238:ILE:HG12	1.80	0.64
3:VF:139:LEU:N	3:VF:168:SER:OG	2.29	0.64
3:AF:199:THR:HB	3:AF:264:HIS:O	1.98	0.64
3:AF:271:ALA:HB1	3:AF:272:PRO:HD2	1.78	0.64
3:AF:423:GLN:NE2	3:AF:427:ASP:OD2	2.31	0.64
2:DE:224:TYR:HE2	25:DE:501:GTP:C5	2.15	0.64
2:DG:293:ASN:HA	2:DG:296:PHE:CE2	2.33	0.64
3:DH:15:GLN:HG2	3:DH:222:TYR:HD2	1.60	0.64
2:EG:56:THR:HG21	2:FG:285:GLN:HB2	1.78	0.64
2:FE:176:GLN:NE2	2:FE:207:GLU:OE2	2.30	0.64
3:FH:19:LYS:NZ	3:FH:223:GLY:O	2.31	0.64
2:HG:288:VAL:HG21	2:HG:328:VAL:HG22	1.78	0.64
14:K4:46:MET:H	14:K4:108:ARG:NE	1.94	0.64
15:L3:172:TYR:HA	15:L3:175:TYR:CE2	2.32	0.64
2:ME:224:TYR:HB3	2:ME:228:ASN:HD21	1.61	0.64
2:NG:196:GLU:OE1	2:NG:196:GLU:N	2.29	0.64
3:OD:46:ARG:NH1	3:OD:241:ARG:O	2.25	0.64
2:OE:5:ILE:HD13	2:OE:64:ARG:HB3	1.80	0.64
3:OH:419:VAL:O	3:OH:423:GLN:NE2	2.30	0.64
19:P2:497:GLN:NE2	19:P2:498:MET:SD	2.71	0.64
3:QF:131:GLN:O	3:QF:251:ARG:NH2	2.31	0.64
3:QF:347:ASN:O	3:QF:350:LYS:NZ	2.30	0.64
2:RE:140:SER:HB2	2:RE:171:ILE:HG22	1.80	0.64
3:RF:21:TRP:HA	3:RF:24:ILE:HD12	1.79	0.64
2:RG:254:GLU:N	2:RG:254:GLU:OE1	2.26	0.64
2:RI:204:VAL:HG23	2:RI:302:MET:HG3	1.78	0.64
3:TF:419:VAL:O	3:TF:423:GLN:NE2	2.31	0.64
3:TH:46:ARG:HH22	3:TH:243:PRO:HD3	1.62	0.64
3:TH:266:PHE:HB3	3:TH:368:ILE:HD11	1.80	0.64
2:UE:139:HIS:HE1	2:UE:168:GLU:HB3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:273:ALA:HB2	2:UE:295:CYS:HB3	1.79	0.64
2:UG:268:PRO:HG2	2:UG:378:LEU:HD11	1.78	0.64
2:VE:346:TRP:CZ2	3:VF:391:ARG:HB2	2.33	0.64
3:WH:48:ASN:O	3:WH:62:ARG:NH2	2.28	0.64
3:WH:378:PHE:CE1	3:WH:419:VAL:HG22	2.33	0.64
24:YK:33:ARG:NH2	24:YK:134:TYR:OH	2.30	0.64
1:A3:160:GLN:HG2	1:A3:238:LEU:HD12	1.79	0.64
2:AE:263:PRO:HB2	2:AE:264:ARG:HH11	1.63	0.64
3:AF:240:LEU:HD22	3:AF:248:ALA:HB1	1.80	0.64
2:AG:358:GLN:NE2	2:AG:359:PRO:O	2.28	0.64
2:AI:1:MET:O	2:AI:133:GLN:NE2	2.31	0.64
2:AI:338:LYS:HE2	17:N3:71:LEU:HG	1.80	0.64
4:B3:91:SER:OG	4:B3:240:ARG:NH2	2.30	0.64
4:B3:368:LYS:HB3	4:B3:372:ARG:NH1	2.13	0.64
2:BE:160:ASP:OD1	2:BE:161:TYR:N	2.30	0.64
3:CF:47:ILE:HG22	11:H3:224:PHE:CZ	2.29	0.64
3:CH:77:ARG:O	3:CH:77:ARG:NH1	2.26	0.64
2:CI:54:SER:HB2	2:CI:62:VAL:HB	1.79	0.64
2:DE:88:HIS:HE1	2:DE:90:GLU:HG2	1.63	0.64
2:EE:172:TYR:HB2	2:EE:203:MET:HB3	1.79	0.64
8:F3:149:LEU:HD22	8:F3:261:GLN:HB2	1.79	0.64
3:FD:131:GLN:HB3	3:FD:163:ILE:HD12	1.79	0.64
9:G2:22:LYS:HB3	9:G2:25:PHE:HE1	1.62	0.64
10:G5:486:VAL:HG13	10:G5:502:ILE:HD13	1.79	0.64
2:GE:50:ASN:O	2:GE:64:ARG:NH1	2.30	0.64
2:GE:102:ASN:HB3	2:GE:105:ARG:HB2	1.79	0.64
2:GE:260:VAL:HG23	2:GE:265:ILE:O	1.97	0.64
2:GG:132:LEU:HD13	2:GG:164:LYS:HE3	1.80	0.64
2:HE:358:GLN:NE2	2:HE:359:PRO:O	2.29	0.64
2:IE:1:MET:SD	2:IE:50:ASN:ND2	2.65	0.64
3:IH:376:GLU:OE1	3:IH:376:GLU:N	2.28	0.64
13:J2:32:ASN:OD1	13:J2:33:SER:N	2.29	0.64
13:J2:38:ASP:OD1	13:J2:41:THR:N	2.24	0.64
13:J3:133:THR:HA	13:J3:136:LYS:HE3	1.79	0.64
14:K3:377:ILE:O	14:K4:115:ARG:NE	2.31	0.64
15:L2:123:PRO:HG2	15:L2:137:GLU:HG2	1.79	0.64
2:LG:220:GLU:O	2:LG:221:ARG:NE	2.30	0.64
3:LH:344:TRP:HA	2:LI:401:LYS:HE2	1.79	0.64
16:M2:95:ARG:NH1	16:M2:96:LEU:O	2.31	0.64
2:ME:301:GLN:OE1	2:ME:302:MET:N	2.31	0.64
2:NE:46:ASP:HA	2:NE:50:ASN:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:19:LYS:NZ	3:NH:223:GLY:O	2.31	0.64
2:PE:160:ASP:OD1	2:PE:161:TYR:N	2.31	0.64
2:PI:1:MET:O	2:PI:133:GLN:NE2	2.31	0.64
2:QG:254:GLU:N	2:QG:254:GLU:OE1	2.28	0.64
2:QI:351:PHE:O	2:QI:352:LYS:HD2	1.98	0.64
3:RF:3:GLU:O	3:RF:130:LEU:HA	1.96	0.64
2:RG:196:GLU:N	2:RG:196:GLU:OE1	2.27	0.64
3:RH:141:GLY:HA2	25:RH:501:GTP:H5''	1.78	0.64
2:SI:392:ASP:O	2:SI:422:ARG:NH2	2.30	0.64
2:TI:172:TYR:N	2:TI:204:VAL:O	2.28	0.64
2:VG:208:ALA:H	2:VG:304:LYS:HZ1	1.46	0.64
2:WE:47:ASP:O	2:WE:50:ASN:N	2.22	0.64
22:XE:103:PHE:CE2	22:XE:139:PHE:HB3	2.30	0.64
23:XK:130:ILE:HG13	23:XK:131:PRO:HD3	1.79	0.64
1:A3:206:ARG:NH1	1:A3:208:GLU:OE1	2.31	0.64
3:CH:130:LEU:HB2	3:CH:162:ARG:HH11	1.61	0.64
6:D2:26:GLU:OE1	6:D2:26:GLU:N	2.31	0.64
6:D8:166:ASP:OD1	6:D9:56:TRP:NE1	2.30	0.64
7:E2:52:THR:OG1	7:E2:53:PRO:HD3	1.98	0.64
7:E2:76:TRP:HA	7:E2:79:LEU:HD23	1.79	0.64
2:GE:117:LEU:O	2:GE:121:ARG:HG2	1.98	0.64
3:HH:114:ASP:OD1	3:HH:115:SER:N	2.31	0.64
2:IG:102:ASN:HD21	2:IG:411:GLU:HG2	1.62	0.64
2:JE:50:ASN:O	2:JE:64:ARG:NH1	2.31	0.64
2:JG:207:GLU:HB2	2:JG:304:LYS:NZ	2.12	0.64
14:K2:196:ASP:OD1	14:K2:197:SER:N	2.29	0.64
3:KH:172:SER:OG	3:KH:205:GLU:OE2	2.16	0.64
15:L3:80:ARG:NH1	2:LI:192:HIS:O	2.26	0.64
3:LD:376:GLU:OE1	3:LD:376:GLU:N	2.28	0.64
2:LE:255:PHE:O	2:LE:259:LEU:HB2	1.98	0.64
3:LF:372:THR:HG21	3:LF:426:GLN:HB3	1.80	0.64
2:LI:127:ASP:OD1	2:LI:128:LEU:N	2.31	0.64
2:ME:133:GLN:HB3	2:ME:252:LEU:HD21	1.78	0.64
2:NG:1:MET:SD	2:NG:130:THR:OG1	2.56	0.64
3:NH:249:ASP:O	3:NH:252:LYS:HB3	1.98	0.64
19:P1:292:GLY:N	19:P1:310:GLU:OE1	2.30	0.64
19:P2:389:ILE:O	19:P2:400:ALA:HA	1.98	0.64
2:PI:172:TYR:N	2:PI:204:VAL:O	2.27	0.64
20:Q2:1421:GLN:O	20:Q2:1512:ARG:NH2	2.31	0.64
20:Q2:1494:LEU:O	20:Q2:1498:ASP:HB3	1.97	0.64
2:RE:42:ILE:HD13	2:RE:59:GLY:HA2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:320:ARG:HG2	2:SG:358:GLN:O	1.97	0.64
2:SI:160:ASP:OD1	2:SI:161:TYR:N	2.31	0.64
3:VD:374:ILE:HA	3:VD:377:LEU:HD12	1.77	0.64
2:VG:247:ALA:HB3	2:VG:355:ILE:HB	1.79	0.64
2:VG:417:GLU:OE1	2:VG:417:GLU:N	2.31	0.64
3:VH:272:PRO:HA	3:VH:292:GLN:HE22	1.63	0.64
3:WF:156:ARG:NH1	3:WF:195:ASN:O	2.31	0.64
2:WG:2:ARG:NH2	2:WG:250:VAL:O	2.31	0.64
3:WH:324:LYS:HD2	2:WI:221:ARG:HA	1.80	0.64
24:YM:8:LEU:HD11	24:YM:145:LEU:HD22	1.78	0.64
24:YN:69:PHE:HA	24:YN:72:ILE:HD12	1.80	0.64
3:AF:347:ASN:HB2	2:AG:178:SER:HB3	1.79	0.64
2:AG:325:PRO:O	2:AG:329:ASN:ND2	2.30	0.64
2:AG:362:VAL:HA	2:AG:368:LEU:HD11	1.79	0.64
2:BG:384:ILE:HB	2:BG:388:TRP:HZ3	1.63	0.64
3:CF:198:GLU:HG2	3:CF:266:PHE:CE2	2.32	0.64
3:CJ:378:PHE:HE1	3:CJ:419:VAL:HG22	1.63	0.64
3:DD:324:LYS:HE2	2:DE:222:PRO:CD	2.28	0.64
11:H4:253:VAL:HA	11:H4:256:HIS:CE1	2.33	0.64
3:HF:323:MET:N	3:HF:323:MET:SD	2.70	0.64
2:HI:287:SER:OG	2:HI:290:GLU:OE1	2.16	0.64
13:J3:175:ILE:HD11	13:J3:183:ALA:HB2	1.80	0.64
3:KH:278:SER:O	3:KH:282:ARG:HB2	1.98	0.64
2:ME:395:PHE:HD2	2:ME:422:ARG:HH21	1.46	0.64
3:OD:278:SER:HA	3:OD:281:TYR:HB2	1.78	0.64
2:OI:25:CYS:HA	2:OI:30:ILE:HD13	1.79	0.64
19:P2:475:GLU:OE2	19:P2:496:ASN:ND2	2.30	0.64
2:PI:205:ASP:OD2	2:PI:304:LYS:NZ	2.30	0.64
2:QE:102:ASN:HD21	2:QE:411:GLU:HG2	1.63	0.64
2:QE:203:MET:N	2:QE:203:MET:SD	2.70	0.64
2:QG:427:ALA:HA	2:QG:430:LYS:HE3	1.79	0.64
3:RF:319:GLY:HA2	3:RF:357:PRO:HG3	1.80	0.64
3:RF:330:MET:HG2	3:RF:349:VAL:HG11	1.80	0.64
25:RJ:501:GTP:O3G	25:RJ:501:GTP:O3'	2.12	0.64
3:SH:273:LEU:O	3:SH:282:ARG:NH1	2.30	0.64
3:TH:246:LEU:HB2	3:TH:352:ALA:HB1	1.79	0.64
2:UE:12:ALA:HB2	25:UE:501:GTP:H5''	1.79	0.64
2:VE:160:ASP:OD1	2:VE:161:TYR:N	2.30	0.64
3:VF:156:ARG:NH1	3:VF:164:MET:SD	2.70	0.64
2:VG:60:LYS:HE3	2:VG:86:LEU:HA	1.79	0.64
2:VG:219:ILE:HG22	2:VG:221:ARG:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:139:LEU:N	3:VH:168:SER:OG	2.30	0.64
2:WG:206:ASN:HA	2:WG:209:ILE:HD12	1.79	0.64
2:WG:271:THR:HB	2:WG:377:MET:HB2	1.80	0.64
2:WI:351:PHE:O	2:WI:352:LYS:HD2	1.98	0.64
22:XC:93:VAL:HG12	22:XC:151:THR:HA	1.79	0.64
1:A3:28:GLU:HB3	4:B3:55:TRP:CZ3	2.31	0.64
3:BH:322:SER:N	3:BH:325:GLU:OE2	2.30	0.64
3:CF:250:LEU:HD13	3:CF:253:LEU:HD12	1.80	0.64
2:DG:205:ASP:OD2	2:DG:304:LYS:NZ	2.30	0.64
7:E2:48:ARG:HB2	7:E2:63:TRP:HE1	1.62	0.64
2:EE:209:ILE:HG21	2:EE:227:LEU:HB2	1.78	0.64
3:GD:15:GLN:HG3	3:GD:222:TYR:HE1	1.63	0.64
3:HF:60:VAL:HG23	3:HF:86:ARG:HH11	1.63	0.64
3:HH:83:GLN:O	3:HH:86:ARG:NH2	2.31	0.64
3:JD:33:THR:O	3:JD:58:LYS:NZ	2.31	0.64
14:K2:350:MET:HG2	14:K2:450:LYS:HZ3	1.62	0.64
14:K2:421:LEU:HG	14:K2:424:ARG:HH21	1.63	0.64
3:LF:322:SER:OG	3:LF:323:MET:N	2.31	0.64
2:MI:101:ASN:HB3	2:MI:182:VAL:HG11	1.79	0.64
2:MI:220:GLU:HG2	2:MI:221:ARG:HG2	1.80	0.64
2:OG:12:ALA:O	25:OG:501:GTP:N1	2.31	0.64
2:PG:49:PHE:HE2	2:PG:55:GLU:H	1.46	0.64
2:PG:365:GLY:H	24:YK:40:ILE:HD12	1.63	0.64
3:PH:211:CYS:HA	3:PH:215:LEU:HB2	1.77	0.64
20:Q2:1356:GLY:HA2	20:Q2:1393:LYS:HG3	1.78	0.64
2:RE:245:ASP:O	2:RE:356:ASN:ND2	2.30	0.64
3:RF:40:SER:HB2	3:RF:43:GLN:HG2	1.80	0.64
3:RF:172:SER:OG	3:RF:205:GLU:OE2	2.15	0.64
2:SE:316:CYS:HB3	2:SE:378:LEU:HB2	1.79	0.64
3:SF:139:LEU:HD21	3:SF:170:VAL:HG22	1.79	0.64
3:SF:173:PRO:O	3:SF:380:ARG:NH2	2.31	0.64
3:SH:8:GLN:HB3	3:SH:65:LEU:HA	1.78	0.64
3:TH:324:LYS:HE2	2:TI:222:PRO:HD2	1.80	0.64
3:VF:419:VAL:O	3:VF:423:GLN:NE2	2.31	0.64
2:WG:12:ALA:O	25:WG:501:GTP:N1	2.29	0.64
22:XD:1:MET:HB2	22:XD:67:LYS:HE3	1.78	0.64
2:AE:263:PRO:HD3	3:AF:396:HIS:CD2	2.33	0.63
2:AE:264:ARG:O	2:AE:266:HIS:ND1	2.31	0.63
2:AG:47:ASP:O	2:AG:50:ASN:N	2.23	0.63
2:AG:337:THR:O	2:AG:339:ARG:NH1	2.25	0.63
2:BG:144:GLY:N	25:BG:501:GTP:O2B	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:205:ASP:OD1	2:BG:304:LYS:NZ	2.30	0.63
2:BI:116:ASP:OD1	2:BI:117:LEU:N	2.31	0.63
5:C3:253:GLU:OE1	5:C3:310:ARG:NH1	2.31	0.63
3:CH:309:ARG:HE	3:CH:426:GLN:HG2	1.63	0.63
3:DD:118:ASP:OD1	3:DD:121:ARG:NH1	2.31	0.63
7:E2:71:GLU:O	7:E2:87:TYR:OH	2.12	0.63
3:HF:426:GLN:NE2	3:HF:427:ASP:OD1	2.32	0.63
2:HG:12:ALA:O	25:HG:501:GTP:N1	2.31	0.63
3:IH:12:CYS:HA	25:IH:501:GTP:N2	2.13	0.63
2:II:75:VAL:HG23	2:II:92:LEU:HD12	1.80	0.63
2:II:168:GLU:OE1	2:II:198:SER:OG	2.16	0.63
2:LG:358:GLN:NE2	2:LG:359:PRO:O	2.31	0.63
2:MG:50:ASN:O	2:MG:64:ARG:NH1	2.28	0.63
2:MG:254:GLU:O	2:MG:258:ASN:ND2	2.25	0.63
2:MI:209:ILE:HG23	2:MI:230:LEU:HD21	1.80	0.63
2:NE:88:HIS:CE1	2:NE:121:ARG:HH22	2.16	0.63
19:P2:336:GLN:HG3	19:P2:377:CYS:O	1.97	0.63
2:PI:67:PHE:HB2	2:PI:92:LEU:HD13	1.81	0.63
2:PI:427:ALA:HA	2:PI:430:LYS:HG2	1.80	0.63
3:RF:269:GLY:N	3:RF:367:PHE:O	2.30	0.63
3:RH:324:LYS:HD2	2:RI:221:ARG:NH1	2.13	0.63
2:RI:235:VAL:HA	2:RI:238:ILE:HG12	1.79	0.63
2:RI:273:ALA:HB2	2:RI:295:CYS:HB3	1.80	0.63
2:RI:319:TYR:HA	2:RI:374:ALA:O	1.98	0.63
2:TI:325:PRO:O	2:TI:329:ASN:ND2	2.31	0.63
3:TJ:117:LEU:HD11	3:TJ:154:LYS:HD2	1.79	0.63
3:UD:250:LEU:HD13	3:UD:253:LEU:HD12	1.79	0.63
2:UG:325:PRO:O	2:UG:329:ASN:ND2	2.31	0.63
2:WI:325:PRO:O	2:WI:329:ASN:ND2	2.30	0.63
22:XC:20:LYS:HG3	22:XC:23:GLN:OE1	1.98	0.63
1:A3:71:ARG:O	1:A3:74:LYS:HG3	1.99	0.63
3:AH:266:PHE:HB3	3:AH:368:ILE:HD11	1.79	0.63
4:B8:395:ARG:NH2	5:C7:341:ASN:HB3	2.14	0.63
3:CH:217:LEU:HB2	10:G5:299:THR:HG21	1.80	0.63
3:CJ:316:VAL:HG22	3:CJ:352:ALA:HB3	1.79	0.63
3:FD:12:CYS:HA	25:FD:501:GTP:HN22	1.62	0.63
9:G1:478:PRO:HD2	9:G1:481:ASN:HB3	1.80	0.63
10:G5:467:GLU:OE2	10:G5:475:ASN:ND2	2.31	0.63
3:GF:406:MET:O	3:GF:409:THR:OG1	2.14	0.63
3:GF:419:VAL:HG12	3:GF:423:GLN:HE22	1.63	0.63
2:HG:56:THR:HG21	2:IG:285:GLN:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:213:CYS:SG	2:IG:222:PRO:HG3	2.38	0.63
3:IH:250:LEU:HD13	3:IH:253:LEU:HD12	1.80	0.63
2:JE:184:PRO:HG3	2:JE:394:LYS:NZ	2.14	0.63
3:JF:3:GLU:OE2	3:JF:129:CYS:N	2.31	0.63
3:JF:193:VAL:HG21	3:JF:418:LEU:HD11	1.79	0.63
14:K4:267:ILE:HG23	14:K4:301:LYS:HA	1.80	0.63
3:KH:407:GLU:OE1	3:KH:407:GLU:N	2.30	0.63
15:L2:27:TYR:OH	2:ME:385:ALA:O	2.15	0.63
2:MG:224:TYR:CE2	25:MG:501:GTP:C5	2.86	0.63
3:MH:77:ARG:NH1	3:MH:77:ARG:O	2.31	0.63
3:NF:81:PHE:HB3	3:NF:84:ILE:HG22	1.79	0.63
3:NF:322:SER:OG	3:NF:324:LYS:NZ	2.29	0.63
2:OG:349:THR:HG23	3:OH:179:VAL:HG12	1.80	0.63
2:OI:22:GLU:O	2:OI:26:LEU:HG	1.98	0.63
2:PG:53:PHE:HB3	2:PG:61:HIS:HB3	1.78	0.63
2:QE:219:ILE:HB	2:QE:222:PRO:HG3	1.81	0.63
2:QI:280:LYS:NZ	2:QI:284:GLU:OE2	2.31	0.63
2:RG:115:VAL:HA	2:RG:118:VAL:HG22	1.79	0.63
2:SE:315:CYS:HB2	2:SE:350:GLY:O	1.97	0.63
2:SI:75:VAL:HA	2:SI:78:VAL:HG22	1.80	0.63
3:TJ:246:LEU:HB2	3:TJ:352:ALA:HB1	1.81	0.63
2:VE:140:SER:HB2	2:VE:171:ILE:HG22	1.80	0.63
2:WI:192:HIS:HA	2:WI:195:LEU:HD23	1.80	0.63
2:AG:207:GLU:HB2	2:AG:304:LYS:NZ	2.12	0.63
3:AH:84:ILE:O	3:AH:86:ARG:NH1	2.32	0.63
3:BF:111:GLU:N	3:BF:111:GLU:OE1	2.31	0.63
3:BF:375:GLN:OE1	3:BF:375:GLN:N	2.32	0.63
2:BG:76:ASP:OD1	2:BG:79:ARG:NH1	2.31	0.63
2:CI:145:THR:OG1	25:CI:501:GTP:O1B	2.13	0.63
2:EE:56:THR:HB	2:FE:285:GLN:HG3	1.80	0.63
2:EG:65:ALA:O	2:EG:91:GLN:NE2	2.31	0.63
8:F2:413:GLN:N	8:F2:413:GLN:OE1	2.30	0.63
3:FD:69:GLU:OE1	3:FD:72:THR:N	2.31	0.63
3:FF:2:ARG:HH21	3:FF:129:CYS:HB2	1.63	0.63
3:FH:172:SER:HB3	3:FH:175:VAL:O	1.99	0.63
9:G1:170:ARG:O	9:G1:202:ASN:ND2	2.31	0.63
10:G5:647:ARG:H	10:G5:649:LYS:NZ	1.96	0.63
3:HH:111:GLU:HG2	3:HH:112:LEU:HD12	1.78	0.63
3:IF:372:THR:HB	3:IF:375:GLN:HE22	1.62	0.63
13:J2:31:SER:O	13:J2:104:HIS:HA	1.98	0.63
2:KI:220:GLU:HG2	2:KI:221:ARG:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:250:LEU:HD13	3:LD:253:LEU:HD12	1.80	0.63
3:LD:341:PHE:HD1	3:LD:348:ASN:HD21	1.44	0.63
2:LE:88:HIS:CD2	2:LE:121:ARG:HH22	2.17	0.63
2:LG:189:LEU:HA	2:LG:192:HIS:CE1	2.33	0.63
2:LI:207:GLU:HB2	2:LI:304:LYS:NZ	2.11	0.63
16:M3:55:ARG:NH1	16:M3:87:SER:OG	2.27	0.63
3:NF:52:ASN:OD1	3:NF:62:ARG:NH1	2.31	0.63
2:NG:107:HIS:HA	2:NG:152:LEU:HD23	1.80	0.63
3:OF:52:ASN:OD1	3:OF:62:ARG:NH1	2.31	0.63
3:OF:322:SER:N	3:OF:325:GLU:OE2	2.31	0.63
2:OG:195:LEU:O	2:OG:264:ARG:NH2	2.28	0.63
3:OH:256:ASN:HB3	3:OH:350:LYS:HG3	1.80	0.63
2:OI:196:GLU:OE1	2:OI:196:GLU:N	2.29	0.63
19:P2:398:ILE:HB	19:P2:412:ILE:HB	1.81	0.63
2:PG:329:ASN:HA	2:PG:332:ILE:HG12	1.79	0.63
20:Q1:1377:GLU:O	20:Q1:1381:GLN:NE2	2.31	0.63
20:Q1:1444:GLN:HA	20:Q1:1447:ILE:HG22	1.79	0.63
2:QE:46:ASP:OD1	2:QE:50:ASN:ND2	2.31	0.63
3:QF:314:ALA:HB3	3:QF:368:ILE:HG22	1.81	0.63
3:QH:132:GLY:HA2	3:QH:162:ARG:HB3	1.80	0.63
21:R2:280:TYR:HB2	21:R2:282:HIS:CE1	2.34	0.63
3:RF:137:HIS:O	3:RF:168:SER:HA	1.98	0.63
3:RF:375:GLN:HA	3:RF:378:PHE:CZ	2.33	0.63
2:RG:172:TYR:N	2:RG:204:VAL:O	2.30	0.63
2:RI:332:ILE:HA	2:RI:335:ILE:HG12	1.80	0.63
3:TF:262:ARG:HD2	3:TF:421:GLU:HG3	1.80	0.63
2:TG:3:GLU:H	2:TG:133:GLN:HE22	1.46	0.63
2:TG:229:ARG:HH12	2:TG:233:GLN:HB2	1.63	0.63
2:TG:247:ALA:HB3	2:TG:355:ILE:HB	1.79	0.63
2:TI:144:GLY:N	25:TI:501:GTP:O2B	2.32	0.63
3:UD:390:ARG:NH1	3:UD:390:ARG:O	2.31	0.63
2:UE:173:PRO:HB2	2:UE:390:ARG:HH22	1.63	0.63
3:UF:328:GLU:OE2	3:UF:329:GLN:NE2	2.31	0.63
2:UG:216:ASN:HB2	2:UG:276:ILE:HD12	1.79	0.63
3:VH:295:ASP:HB2	3:VH:298:ASN:HB2	1.79	0.63
3:WF:247:ASN:OD1	2:WG:11:GLN:NE2	2.17	0.63
24:YI:128:ASP:HA	24:YI:131:ARG:HD3	1.80	0.63
1:A2:114:LYS:NZ	1:A2:117:GLU:OE1	2.32	0.63
1:A3:68:GLU:OE1	4:B2:270:ARG:NH2	2.31	0.63
2:AE:125:LEU:HD13	2:AE:128:LEU:HD21	1.80	0.63
2:AE:370:LYS:O	2:AE:372:GLN:NE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:334:GLN:O	3:AF:338:SER:OG	2.13	0.63
2:AG:90:GLU:N	2:AG:90:GLU:OE1	2.30	0.63
3:AH:299:MET:HG3	3:AH:305:PRO:HD3	1.81	0.63
4:B7:43:ARG:NH2	4:B8:292:GLU:OE2	2.31	0.63
3:BF:374:ILE:HG23	3:BF:377:LEU:HD12	1.80	0.63
6:D3:251:ALA:HB3	6:D4:368:LEU:HB2	1.80	0.63
2:GG:245:ASP:OD1	2:GG:249:ASN:ND2	2.32	0.63
3:HF:324:LYS:NZ	2:HG:222:PRO:O	2.20	0.63
2:HG:326:LYS:NZ	3:HH:220:PRO:O	2.31	0.63
2:II:25:CYS:HB2	2:II:30:ILE:HB	1.81	0.63
2:JG:189:LEU:HA	2:JG:192:HIS:CE1	2.34	0.63
14:K3:464:ARG:O	14:K3:468:ARG:HG2	1.98	0.63
3:LD:99:ASN:HB2	3:LD:142:GLY:HA3	1.80	0.63
3:LD:309:ARG:NH1	3:LD:341:PHE:O	2.30	0.63
2:MG:102:ASN:HD22	2:MG:105:ARG:HG3	1.63	0.63
2:NE:274:PRO:HG3	2:NE:374:ALA:HA	1.79	0.63
2:NI:46:ASP:HA	2:NI:50:ASN:HB3	1.81	0.63
18:O1:92:LEU:HA	18:O1:95:TRP:HB3	1.81	0.63
3:OF:19:LYS:NZ	3:OF:223:GLY:O	2.28	0.63
3:OF:252:LYS:NZ	2:OG:144:GLY:HA3	2.14	0.63
2:PI:220:GLU:HG2	2:PI:221:ARG:HG2	1.81	0.63
2:QG:287:SER:OG	2:QG:290:GLU:OE1	2.13	0.63
3:RF:282:ARG:NH2	3:RF:292:GLN:OE1	2.32	0.63
3:RJ:214:THR:O	3:RJ:275:SER:OG	2.16	0.63
3:RJ:250:LEU:HD13	3:RJ:253:LEU:HD12	1.80	0.63
2:SE:53:PHE:HB3	2:SE:61:HIS:HB3	1.80	0.63
3:SH:345:ILE:HD12	3:SH:346:PRO:HD2	1.80	0.63
2:SI:49:PHE:HB2	2:SI:53:PHE:HB2	1.80	0.63
3:SJ:299:MET:SD	3:SJ:301:ALA:N	2.71	0.63
2:TG:22:GLU:HG2	2:TG:83:TYR:CE2	2.33	0.63
3:UD:379:LYS:O	3:UD:382:SER:OG	2.10	0.63
2:UG:287:SER:OG	2:UG:290:GLU:OE1	2.15	0.63
3:VD:111:GLU:HG2	3:VD:112:LEU:HD12	1.80	0.63
2:VG:3:GLU:OE2	2:VG:130:THR:N	2.31	0.63
2:WE:163:LYS:HG3	2:WE:164:LYS:HG2	1.80	0.63
22:XD:104:ARG:NE	22:XD:106:SER:OG	2.17	0.63
22:XE:59:ILE:HG22	22:XE:156:ILE:HB	1.80	0.63
22:XE:177:LEU:HB3	22:XE:181:PHE:HB3	1.80	0.63
24:YK:18:PHE:O	24:YK:22:GLN:HB3	1.98	0.63
2:AG:7:ILE:HD13	2:AG:66:VAL:HB	1.79	0.63
2:AI:392:ASP:HB2	2:AI:422:ARG:HH12	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:399:TYR:OH	2:AI:415:GLU:OE2	2.15	0.63
2:BE:385:ALA:HA	2:BE:388:TRP:HD1	1.63	0.63
2:BG:172:TYR:HB2	2:BG:203:MET:HB3	1.80	0.63
2:BI:132:LEU:HG	2:BI:164:LYS:HE2	1.80	0.63
6:D3:157:GLN:HG2	7:E2:43:ILE:HD13	1.79	0.63
6:D3:171:TYR:O	6:D3:175:GLU:N	2.15	0.63
3:DD:167:PHE:HB3	3:DD:233:MET:HE1	1.79	0.63
2:EG:180:ALA:HB3	2:EG:183:GLU:HB2	1.80	0.63
3:FD:229:VAL:O	3:FD:232:THR:OG1	2.14	0.63
3:FD:374:ILE:HG22	3:FD:378:PHE:HD2	1.63	0.63
3:FH:48:ASN:O	3:FH:62:ARG:NH2	2.22	0.63
9:G1:474:LYS:HB2	9:G1:485:TYR:H	1.63	0.63
10:G5:470:GLU:H	10:G5:475:ASN:HD21	1.46	0.63
3:HD:42:LEU:HD12	3:HD:243:PRO:HD2	1.81	0.63
2:HE:168:GLU:OE1	2:HE:198:SER:OG	2.15	0.63
2:HI:97:GLU:OE2	2:HI:105:ARG:NH2	2.31	0.63
3:IH:102:ALA:H	3:IH:398:TYR:HE1	1.47	0.63
3:IH:240:LEU:HD22	3:IH:248:ALA:HB1	1.80	0.63
13:J2:105:CYS:HB3	13:J2:112:SER:HB3	1.80	0.63
2:KE:244:PHE:HB2	2:KE:356:ASN:HD21	1.63	0.63
2:KG:229:ARG:NH1	2:KG:233:GLN:HB3	2.13	0.63
3:LF:27:GLU:HA	3:LF:359:ARG:HD3	1.78	0.63
3:LH:3:GLU:HB2	3:LH:62:ARG:HH22	1.62	0.63
3:ND:4:ILE:HD11	3:ND:131:GLN:HB2	1.80	0.63
18:O1:50:LEU:O	18:O1:53:VAL:HG22	1.99	0.63
18:O2:76:PRO:HG2	18:O2:102:LEU:HD23	1.80	0.63
2:OG:50:ASN:O	2:OG:64:ARG:NH1	2.31	0.63
2:OG:208:ALA:H	2:OG:304:LYS:HZ1	1.47	0.63
2:OG:228:ASN:HA	2:OG:231:ILE:HG12	1.79	0.63
3:OH:324:LYS:NZ	2:OI:222:PRO:O	2.23	0.63
2:OI:1:MET:N	2:OI:130:THR:OG1	2.32	0.63
2:OI:117:LEU:O	2:OI:121:ARG:HG2	1.97	0.63
19:P1:79:ILE:HB	19:P1:96:TRP:HB2	1.80	0.63
3:PF:249:ASP:HB3	3:PF:252:LYS:HG2	1.80	0.63
2:QG:264:ARG:O	2:QG:266:HIS:ND1	2.31	0.63
3:QH:135:LEU:HG	3:QH:137:HIS:HD2	1.63	0.63
2:SE:6:SER:O	2:SE:65:ALA:HA	1.98	0.63
3:VD:189:VAL:HA	3:VD:192:LEU:HB2	1.81	0.63
3:WF:375:GLN:HA	3:WF:378:PHE:CZ	2.34	0.63
24:YJ:25:PHE:HD1	24:YJ:65:ILE:HG12	1.64	0.63
1:A2:159:GLU:O	1:A2:162:ARG:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:241:LEU:HD21	12:I3:48:TYR:CG	2.33	0.63
2:AE:172:TYR:N	2:AE:204:VAL:O	2.25	0.63
2:AG:144:GLY:N	25:AG:501:GTP:O2B	2.32	0.63
2:BG:280:LYS:O	2:BG:284:GLU:HB2	1.98	0.63
2:BI:306:ASP:OD1	2:BI:308:ARG:NH1	2.32	0.63
5:C3:383:LYS:HA	5:C3:386:ILE:HD12	1.81	0.63
3:CF:67:ASP:OD2	3:CF:72:THR:OG1	2.17	0.63
2:CG:31:GLN:HE22	2:CG:37:PRO:HG3	1.64	0.63
2:CG:219:ILE:HG22	2:CG:222:PRO:HD3	1.79	0.63
2:CI:1:MET:O	2:CI:133:GLN:NE2	2.29	0.63
2:CI:207:GLU:HB2	2:CI:304:LYS:NZ	2.11	0.63
6:D8:165:PRO:HG2	6:D8:418:VAL:HG11	1.81	0.63
3:DD:375:GLN:HA	3:DD:378:PHE:CZ	2.34	0.63
2:EG:329:ASN:HA	2:EG:332:ILE:HG12	1.80	0.63
10:G5:628:LYS:HA	10:G5:633:GLU:HG2	1.80	0.63
11:H3:290:PRO:O	11:H3:315:ARG:NH1	2.31	0.63
3:HF:8:GLN:OE1	3:HF:14:ASN:HA	1.97	0.63
2:HI:12:ALA:HB2	25:HI:501:GTP:H5''	1.80	0.63
2:IE:75:VAL:HG23	2:IE:92:LEU:HD12	1.80	0.63
3:JD:139:LEU:N	3:JD:168:SER:OG	2.30	0.63
3:KH:34:GLY:HA3	3:KH:58:LYS:HG3	1.80	0.63
2:KI:88:HIS:CE1	2:KI:121:ARG:HH22	2.17	0.63
2:KI:204:VAL:HG23	2:KI:302:MET:HG3	1.80	0.63
15:L2:90:LEU:HD21	3:LF:391:ARG:HB3	1.80	0.63
15:L3:124:ILE:HD12	15:L3:135:ASP:HA	1.81	0.63
3:MF:245:GLN:OE1	2:MG:15:GLN:NE2	2.31	0.63
18:O2:38:TYR:CE1	20:Q2:1414:LEU:HA	2.33	0.63
2:OE:182:VAL:HA	2:OE:185:TYR:HD2	1.63	0.63
3:OF:175:VAL:HG22	3:OF:177:ASP:H	1.64	0.63
2:OI:208:ALA:N	2:OI:304:LYS:HZ1	1.96	0.63
19:P2:84:VAL:HG22	19:P2:113:LYS:HB2	1.79	0.63
19:P2:221:TYR:HA	19:P2:230:LEU:O	1.98	0.63
19:P2:245:VAL:HG12	19:P2:246:LYS:HG3	1.79	0.63
2:PE:258:ASN:HD22	2:PE:352:LYS:HG2	1.62	0.63
3:QF:84:ILE:O	3:QF:86:ARG:NH1	2.31	0.63
2:QG:34:GLY:HA2	2:QG:86:LEU:HD21	1.81	0.63
2:QI:236:SER:O	2:QI:243:ARG:NH2	2.25	0.63
3:RF:11:GLN:O	3:RF:15:GLN:NE2	2.31	0.63
3:RF:382:SER:HA	3:RF:385:PHE:CD2	2.34	0.63
2:RI:178:SER:OG	2:RI:180:ALA:O	2.16	0.63
2:SG:166:LYS:NZ	2:SG:197:HIS:O	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:192:HIS:HA	2:TI:195:LEU:HD23	1.80	0.63
3:WF:15:GLN:NE2	3:WF:16:ILE:HG12	2.13	0.63
2:WI:53:PHE:HB3	2:WI:61:HIS:HB3	1.80	0.63
23:XJ:180:ILE:HG12	23:XJ:184:PHE:CE2	2.33	0.63
24:YL:161:LYS:HG3	24:YL:162:VAL:HG23	1.78	0.63
24:YM:32:CYS:HA	24:YM:56:TYR:HE2	1.62	0.63
3:AH:226:ASN:HA	3:AH:229:VAL:HG12	1.80	0.63
3:CF:270:PHE:O	3:CF:298:ASN:ND2	2.32	0.63
3:CH:39:ASP:OD1	3:CH:43:GLN:NE2	2.32	0.63
3:DF:48:ASN:O	3:DF:62:ARG:NH2	2.31	0.63
8:F2:422:THR:O	8:F2:426:THR:HG23	1.99	0.63
8:F6:244:ARG:NH1	8:F6:244:ARG:O	2.32	0.63
2:FE:264:ARG:O	2:FE:266:HIS:ND1	2.31	0.63
3:FF:77:ARG:NH1	3:FF:77:ARG:O	2.30	0.63
2:FG:220:GLU:HG2	2:FG:221:ARG:HG2	1.80	0.63
2:FG:326:LYS:HZ2	3:FH:208:TYR:HD1	1.45	0.63
11:H3:7:HIS:ND1	11:H3:8:ASN:O	2.32	0.63
3:HF:268:PRO:HD2	3:HF:301:ALA:HB2	1.81	0.63
2:IE:3:GLU:N	2:IE:133:GLN:OE1	2.30	0.63
3:JF:6:HIS:CE1	3:JF:8:GLN:HB2	2.34	0.63
3:LF:51:TYR:HB3	3:LF:59:TYR:HB3	1.79	0.63
3:MF:31:ASP:OD2	3:MF:33:THR:OG1	2.16	0.63
2:MI:16:ILE:HG22	2:MI:228:ASN:OD1	1.97	0.63
3:ND:375:GLN:HA	3:ND:378:PHE:CZ	2.33	0.63
2:NE:192:HIS:HA	2:NE:195:LEU:HD23	1.81	0.63
3:NF:324:LYS:HD2	2:NG:221:ARG:HA	1.80	0.63
2:NI:139:HIS:CE1	2:NI:168:GLU:HB3	2.34	0.63
3:OH:345:ILE:HD12	3:OH:346:PRO:HD2	1.81	0.63
2:OI:127:ASP:OD1	2:OI:128:LEU:N	2.32	0.63
2:OI:189:LEU:HD23	2:OI:192:HIS:HE1	1.63	0.63
3:PF:117:LEU:HD11	3:PF:154:LYS:HD2	1.80	0.63
3:RF:233:MET:HA	3:RF:236:VAL:HG22	1.80	0.63
3:RH:3:GLU:OE2	3:RH:127:CYS:HB2	1.99	0.63
2:RI:81:GLY:O	2:RI:84:ARG:NH1	2.32	0.63
2:SE:358:GLN:NE2	2:SE:359:PRO:O	2.31	0.63
2:SG:280:LYS:NZ	2:SG:284:GLU:OE2	2.28	0.63
3:SH:247:ASN:HB3	3:SH:252:LYS:HG2	1.79	0.63
3:SJ:45:GLU:O	3:SJ:48:ASN:ND2	2.32	0.63
3:TF:54:ALA:N	3:TF:58:LYS:O	2.29	0.63
3:UD:226:ASN:HA	3:UD:229:VAL:HG22	1.79	0.63
3:UF:372:THR:HG21	3:UF:426:GLN:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:320:ARG:HG2	2:VG:358:GLN:O	1.98	0.63
3:WH:8:GLN:HG2	3:WH:65:LEU:HD13	1.80	0.63
22:XC:13:ILE:HG22	22:XC:25:TRP:HZ2	1.64	0.63
24:YJ:143:ILE:HG23	24:YJ:147:PHE:CE2	2.33	0.63
2:AE:42:ILE:HG21	2:AE:59:GLY:HA2	1.80	0.63
3:AF:275:SER:N	3:AF:278:SER:OG	2.30	0.63
3:AF:324:LYS:NZ	3:AF:325:GLU:OE1	2.32	0.63
2:AI:338:LYS:NZ	2:AI:340:THR:H	1.97	0.63
4:B8:118:THR:HA	6:D7:409:ARG:HH22	1.63	0.63
2:BE:25:CYS:HB2	2:BE:30:ILE:HB	1.79	0.63
2:BI:390:ARG:HA	2:BI:393:HIS:CD2	2.33	0.63
3:CF:12:CYS:SG	25:CF:501:GTP:H5'	2.39	0.63
2:CI:362:VAL:HG12	2:CI:368:LEU:HG	1.79	0.63
2:EG:175:PRO:HA	2:EG:390:ARG:NE	2.14	0.63
2:GE:254:GLU:O	2:GE:258:ASN:ND2	2.32	0.63
2:HE:33:ASP:OD1	2:HE:35:GLN:N	2.32	0.63
3:HH:392:LYS:HB2	3:HH:395:LEU:HD13	1.81	0.63
3:KF:54:ALA:HA	3:LF:283:ALA:HB2	1.80	0.63
3:KF:134:GLN:HA	3:KF:165:ASN:O	1.99	0.63
15:L2:65:LYS:NZ	3:LD:409:THR:O	2.32	0.63
15:L3:24:HIS:HB2	2:MI:430:LYS:HZ1	1.62	0.63
2:LI:11:GLN:NE2	25:LI:501:GTP:O3A	2.32	0.63
3:MF:2:ARG:HH12	2:MG:96:LYS:HB3	1.63	0.63
2:MG:296:PHE:HE1	2:MG:377:MET:HG3	1.62	0.63
2:MG:386:GLU:N	2:MG:386:GLU:OE1	2.29	0.63
2:NG:2:ARG:NH1	2:NG:241:SER:O	2.31	0.63
18:O2:100:PRO:HA	18:O2:103:LEU:HB2	1.79	0.63
3:OD:3:GLU:HG2	3:OD:130:LEU:HD23	1.79	0.63
2:PE:5:ILE:O	2:PE:135:PHE:HA	1.98	0.63
2:PG:160:ASP:OD1	2:PG:161:TYR:N	2.32	0.63
2:PG:312:TYR:HE1	2:PG:379:SER:HB2	1.62	0.63
20:Q1:1341:ARG:HH12	20:Q1:1445:PRO:HG3	1.64	0.63
20:Q2:1437:TYR:HB3	20:Q2:1440:LEU:HD13	1.81	0.63
2:QI:427:ALA:HA	2:QI:430:LYS:HG2	1.81	0.63
3:RH:12:CYS:SG	3:RH:13:GLY:N	2.72	0.63
2:RI:276:ILE:HG22	2:RI:369:ALA:HB2	1.81	0.63
3:RJ:292:GLN:O	3:RJ:298:ASN:ND2	2.32	0.63
3:RJ:295:ASP:HB2	3:RJ:298:ASN:HB2	1.81	0.63
3:SH:234:SER:O	3:SH:238:THR:HG23	1.98	0.63
2:TG:274:PRO:HG3	2:TG:374:ALA:HA	1.81	0.63
3:TH:48:ASN:O	3:TH:62:ARG:NH2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:169:VAL:HA	3:TJ:202:ILE:HG13	1.79	0.63
3:VH:337:ASN:HB2	3:VH:340:TYR:HB2	1.81	0.63
22:XE:103:PHE:HB3	22:XE:121:MET:HE1	1.81	0.63
2:AE:119:LEU:HD23	2:AE:122:ILE:HD11	1.80	0.63
2:AE:255:PHE:O	2:AE:259:LEU:HB2	1.99	0.63
2:AG:46:ASP:OD1	2:AG:50:ASN:ND2	2.30	0.63
3:AH:344:TRP:CD1	2:AI:401:LYS:HE2	2.33	0.63
4:B7:4:LEU:HD13	4:B8:117:LEU:HD21	1.81	0.63
3:CF:6:HIS:HE1	3:CF:8:GLN:HB3	1.62	0.63
2:CG:220:GLU:O	2:CG:221:ARG:NE	2.31	0.63
6:D7:370:ARG:HH21	6:D7:375:PHE:HE1	1.44	0.63
6:D8:351:ARG:HB2	6:D9:240:PHE:CE1	2.34	0.63
3:DH:21:TRP:HZ3	3:DH:51:TYR:HE1	1.46	0.63
3:ED:31:ASP:OD2	3:ED:33:THR:OG1	2.16	0.63
3:ED:228:LEU:O	3:ED:232:THR:HG23	1.99	0.63
2:EE:271:THR:HB	2:EE:377:MET:HB3	1.81	0.63
8:F3:291:SER:OG	8:F3:295:THR:OG1	2.16	0.63
10:G5:60:PHE:CD2	10:G5:66:THR:HG22	2.33	0.63
2:GE:88:HIS:HB3	2:GE:91:GLN:HB2	1.78	0.63
11:H3:227:ARG:HH12	11:H3:231:VAL:H	1.46	0.63
3:HF:31:ASP:OD1	3:HF:35:THR:N	2.32	0.63
3:JD:3:GLU:OE2	3:JD:127:CYS:HB2	1.98	0.63
3:JF:316:VAL:HG22	3:JF:352:ALA:HB3	1.80	0.63
14:K3:479:ARG:HG3	14:K3:480:LEU:HG	1.80	0.63
3:KD:19:LYS:HA	3:KD:22:GLU:HG3	1.81	0.63
3:KD:250:LEU:HD13	3:KD:253:LEU:HD12	1.80	0.63
3:KF:194:GLU:OE1	3:KF:195:ASN:ND2	2.31	0.63
2:MG:147:SER:HB2	2:MG:190:THR:HG21	1.80	0.63
2:MG:160:ASP:OD1	2:MG:161:TYR:N	2.32	0.63
2:MI:209:ILE:HG21	2:MI:227:LEU:HG	1.80	0.63
2:MI:325:PRO:O	2:MI:329:ASN:ND2	2.32	0.63
3:NF:271:ALA:HB1	3:NF:272:PRO:HD2	1.81	0.63
2:NG:140:SER:HA	2:NG:170:ALA:HB1	1.81	0.63
2:NG:363:VAL:H	2:NG:368:LEU:HD21	1.63	0.63
3:NH:28:HIS:O	3:NH:43:GLN:NE2	2.32	0.63
2:NI:101:ASN:HA	2:NI:144:GLY:HA2	1.78	0.63
2:OE:176:GLN:NE2	2:OE:207:GLU:OE2	2.31	0.63
2:OE:254:GLU:OE1	2:OE:254:GLU:N	2.32	0.63
2:OI:256:GLN:O	2:OI:260:VAL:HG12	1.99	0.63
19:P1:468:ARG:HG3	19:P1:509:CYS:HA	1.81	0.63
2:PE:209:ILE:HG21	2:PE:227:LEU:HG	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:165:SER:HB3	2:PG:252:LEU:HD13	1.81	0.63
20:Q1:1354:LYS:HZ1	20:Q1:1433:THR:HG22	1.63	0.63
3:QH:190:HIS:CE1	3:QH:410:GLU:HG3	2.34	0.63
3:QH:246:LEU:HB2	3:QH:352:ALA:HB1	1.81	0.63
21:R2:270:VAL:O	21:R2:280:TYR:HB3	1.99	0.63
2:RE:127:ASP:OD1	2:RE:128:LEU:N	2.29	0.63
2:RG:8:HIS:HE1	2:RG:65:ALA:HB1	1.64	0.63
3:SH:12:CYS:SG	3:SH:13:GLY:N	2.72	0.63
2:SI:212:ILE:HA	2:SI:215:ARG:HB2	1.81	0.63
2:SI:263:PRO:O	2:SI:264:ARG:HD3	1.98	0.63
3:SJ:4:ILE:HB	3:SJ:50:TYR:HE1	1.63	0.63
3:VD:173:PRO:O	3:VD:380:ARG:NH2	2.31	0.63
3:VF:30:ILE:HG13	3:VF:36:TYR:HD1	1.63	0.63
2:VG:390:ARG:HA	2:VG:393:HIS:CD2	2.34	0.63
3:VH:375:GLN:HA	3:VH:378:PHE:CE2	2.34	0.63
3:WH:269:GLY:N	3:WH:367:PHE:O	2.32	0.63
2:WI:196:GLU:OE1	2:WI:196:GLU:N	2.25	0.63
1:A3:15:GLU:N	1:A3:15:GLU:OE1	2.30	0.62
3:AH:299:MET:SD	3:AH:301:ALA:N	2.72	0.62
2:AI:160:ASP:OD1	2:AI:161:TYR:N	2.32	0.62
2:AI:313:MET:SD	2:AI:380:ASN:HB3	2.39	0.62
2:CI:1:MET:N	2:CI:130:THR:OG1	2.31	0.62
3:DH:156:ARG:NH1	3:DH:195:ASN:O	2.31	0.62
2:EE:264:ARG:O	2:EE:266:HIS:ND1	2.31	0.62
3:FD:12:CYS:SG	3:FD:13:GLY:N	2.72	0.62
3:FF:316:VAL:HG22	3:FF:352:ALA:HB3	1.79	0.62
2:FG:311:LYS:HE3	2:FG:344:VAL:HG12	1.80	0.62
9:G2:102:TYR:HD2	9:G2:117:ILE:HD11	1.64	0.62
3:IH:50:TYR:HE2	3:IH:241:ARG:HH21	1.45	0.62
3:IH:372:THR:HB	3:IH:375:GLN:HE22	1.64	0.62
2:JG:207:GLU:HB2	2:JG:304:LYS:HZ1	1.64	0.62
3:KH:15:GLN:HB2	25:KH:501:GTP:HN22	1.64	0.62
3:LF:8:GLN:OE1	3:LF:17:GLY:HA3	1.99	0.62
2:LG:205:ASP:OD1	2:LG:304:LYS:NZ	2.32	0.62
3:ND:48:ASN:O	3:ND:62:ARG:NH2	2.29	0.62
3:ND:324:LYS:HD2	2:NE:221:ARG:HA	1.80	0.62
3:OF:19:LYS:HZ3	3:OF:227:HIS:HB2	1.63	0.62
2:OI:201:ALA:H	2:OI:266:HIS:HD2	1.45	0.62
19:P1:250:SER:HB2	19:P1:270:ALA:HB2	1.80	0.62
19:P1:303:HIS:NE2	20:Q1:1498:ASP:OD2	2.32	0.62
19:P1:387:LYS:HA	19:P1:403:PRO:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:252:LYS:O	3:PF:256:ASN:ND2	2.32	0.62
3:PF:346:PRO:HG2	2:PG:394:LYS:HE2	1.80	0.62
20:Q1:1376:ARG:NH1	20:Q1:1376:ARG:O	2.31	0.62
2:RE:192:HIS:HA	2:RE:195:LEU:HD23	1.81	0.62
2:SE:99:ALA:HB3	2:SE:145:THR:HA	1.81	0.62
2:SE:261:PRO:HG3	2:SE:313:MET:HE1	1.81	0.62
3:SH:194:GLU:N	3:SH:194:GLU:OE1	2.30	0.62
3:SJ:31:ASP:OD1	3:SJ:35:THR:N	2.32	0.62
3:SJ:141:GLY:HA2	25:SJ:501:GTP:H5''	1.80	0.62
3:TH:211:CYS:HA	3:TH:215:LEU:HB2	1.80	0.62
3:VD:11:GLN:HE21	25:VD:501:GTP:H3'	1.63	0.62
3:WF:258:VAL:HB	2:WG:407:TRP:HZ2	1.64	0.62
2:WG:22:GLU:HG2	2:WG:83:TYR:HE2	1.63	0.62
1:A3:8:PRO:O	1:A3:10:ARG:NH1	2.28	0.62
3:AF:379:LYS:O	3:AF:382:SER:OG	2.15	0.62
2:AI:220:GLU:O	2:AI:221:ARG:NE	2.32	0.62
2:BE:280:LYS:O	2:BE:284:GLU:HB2	2.00	0.62
3:BF:32:PRO:O	3:BF:83:GLN:NE2	2.27	0.62
3:CF:372:THR:HB	3:CF:375:GLN:HE22	1.62	0.62
6:D8:137:ARG:HD2	6:D8:447:GLN:HA	1.80	0.62
3:DF:378:PHE:CD1	3:DF:419:VAL:HG22	2.34	0.62
8:F2:426:THR:HG22	8:F3:127:LYS:HD2	1.81	0.62
2:FE:115:VAL:HA	2:FE:118:VAL:HG22	1.80	0.62
9:G2:424:ALA:HB3	9:G2:438:PHE:HB3	1.81	0.62
10:G5:132:ARG:HB3	10:G5:134:GLN:HE22	1.64	0.62
2:GE:101:ASN:CB	2:GE:182:VAL:HG11	2.29	0.62
2:GE:264:ARG:O	2:GE:266:HIS:ND1	2.30	0.62
2:GG:99:ALA:HA	2:GG:105:ARG:HE	1.65	0.62
2:GG:319:TYR:HB3	2:GG:323:VAL:HG21	1.81	0.62
2:JE:325:PRO:O	2:JE:329:ASN:ND2	2.32	0.62
14:K3:329:SER:OG	14:K3:464:ARG:NE	2.30	0.62
15:L3:193:ARG:HH12	15:L3:249:ILE:HG23	1.64	0.62
2:LI:75:VAL:HG23	2:LI:92:LEU:HD12	1.79	0.62
2:MG:214:ARG:NH1	2:MG:215:ARG:HG3	2.15	0.62
17:N3:89:LYS:HD2	17:N3:89:LYS:H	1.64	0.62
3:NH:84:ILE:O	3:NH:86:ARG:NH1	2.32	0.62
3:NH:165:ASN:HA	3:NH:198:GLU:HB3	1.80	0.62
3:OF:68:LEU:HD12	3:OF:97:ALA:HB2	1.81	0.62
2:PG:50:ASN:O	2:PG:64:ARG:NH1	2.33	0.62
3:PH:247:ASN:ND2	25:PI:501:GTP:O1A	2.26	0.62
2:PI:115:VAL:HG11	2:PI:152:LEU:HD22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:206:ASN:HA	2:QE:209:ILE:HD12	1.80	0.62
2:QE:224:TYR:HA	2:QE:227:LEU:HB2	1.81	0.62
3:QF:42:LEU:HD12	3:QF:243:PRO:HD2	1.79	0.62
3:QF:172:SER:OG	3:QF:205:GLU:OE2	2.16	0.62
3:RF:33:THR:O	3:RF:58:LYS:NZ	2.32	0.62
3:RJ:7:LEU:HD13	3:RJ:64:VAL:HB	1.80	0.62
3:SH:84:ILE:O	3:SH:86:ARG:NH1	2.30	0.62
2:SI:144:GLY:N	25:SI:501:GTP:O2B	2.31	0.62
2:TI:358:GLN:NE2	2:TI:359:PRO:O	2.32	0.62
3:UF:6:HIS:HE1	3:UF:8:GLN:HB2	1.64	0.62
3:VH:12:CYS:SG	3:VH:13:GLY:N	2.73	0.62
2:WG:178:SER:OG	2:WG:180:ALA:O	2.17	0.62
2:BE:192:HIS:HA	2:BE:195:LEU:HD23	1.81	0.62
2:BI:7:ILE:HD13	2:BI:66:VAL:HB	1.81	0.62
5:C8:391:ALA:O	5:C8:394:LYS:HB3	2.00	0.62
3:CF:291:GLN:NE2	3:CF:295:ASP:OD2	2.33	0.62
6:D3:402:LEU:HA	6:D3:405:LEU:HD12	1.81	0.62
6:D9:75:GLU:O	6:D9:78:ARG:HG2	1.99	0.62
3:ED:426:GLN:NE2	3:ED:427:ASP:OD1	2.31	0.62
8:F6:149:LEU:HD22	8:F6:261:GLN:HB2	1.80	0.62
10:G5:262:ILE:HB	10:G5:279:LEU:HB3	1.81	0.62
3:GD:80:PRO:O	3:GD:83:GLN:NE2	2.31	0.62
2:GG:101:ASN:HB3	2:GG:182:VAL:HG11	1.80	0.62
3:HF:318:ARG:NE	3:HF:356:ILE:O	2.31	0.62
2:IG:1:MET:N	2:IG:130:THR:OG1	2.32	0.62
2:IG:311:LYS:HG2	2:IG:342:GLN:HB2	1.81	0.62
2:II:200:CYS:HA	2:II:266:HIS:HB2	1.82	0.62
2:JG:30:ILE:HG23	2:JG:36:MET:HE3	1.81	0.62
14:K2:458:TYR:OH	14:K2:462:ARG:NH2	2.32	0.62
3:KD:323:MET:HE3	2:KE:224:TYR:H	1.64	0.62
3:KH:286:VAL:HG21	3:KH:325:GLU:HG3	1.81	0.62
15:L2:222:PRO:HA	15:L2:225:ILE:HG12	1.81	0.62
2:LE:344:VAL:HB	2:LE:346:TRP:HD1	1.64	0.62
2:LI:205:ASP:OD2	2:LI:304:LYS:NZ	2.32	0.62
3:MF:211:CYS:HA	3:MF:215:LEU:HB2	1.80	0.62
3:NF:54:ALA:N	3:NF:58:LYS:O	2.25	0.62
3:NF:275:SER:O	3:NF:279:GLN:NE2	2.31	0.62
2:NI:216:ASN:HD21	2:NI:275:VAL:HG23	1.64	0.62
2:OG:32:PRO:O	2:OG:85:GLN:NE2	2.31	0.62
2:OG:54:SER:H	2:OG:62:VAL:H	1.47	0.62
2:OI:2:ARG:NH2	2:OI:250:VAL:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:89:PRO:HD2	2:PI:280:LYS:HZ3	1.64	0.62
20:Q1:1354:LYS:NZ	20:Q1:1435:SER:HB3	2.14	0.62
20:Q2:1402:SER:HA	20:Q2:1406:LEU:HB3	1.80	0.62
20:Q2:1406:LEU:HD21	20:Q2:1408:LYS:HG2	1.81	0.62
2:QG:184:PRO:HB2	2:QG:395:PHE:HD1	1.64	0.62
2:RE:172:TYR:HB2	2:RE:203:MET:HB2	1.81	0.62
3:RF:12:CYS:HA	25:RF:501:GTP:N2	2.14	0.62
3:RF:313:VAL:HG23	3:RF:349:VAL:HA	1.82	0.62
2:RG:229:ARG:NH2	2:RG:365:GLY:O	2.32	0.62
2:SE:325:PRO:O	2:SE:329:ASN:ND2	2.31	0.62
2:SG:434:GLU:N	2:SG:434:GLU:OE1	2.32	0.62
3:TJ:334:GLN:O	3:TJ:338:SER:OG	2.13	0.62
3:UD:268:PRO:HD2	3:UD:301:ALA:HB2	1.80	0.62
2:UE:240:ALA:HB1	2:UE:356:ASN:HD22	1.64	0.62
3:UH:273:LEU:H	3:UH:292:GLN:HE22	1.48	0.62
3:VF:170:VAL:N	3:VF:202:ILE:O	2.29	0.62
2:WE:5:ILE:O	2:WE:135:PHE:HA	1.98	0.62
3:WF:48:ASN:O	3:WF:62:ARG:NH2	2.26	0.62
22:XC:92:GLN:HB3	22:XC:153:ARG:HG3	1.79	0.62
24:YL:8:LEU:O	24:YL:11:ILE:N	2.32	0.62
2:AI:32:PRO:O	2:AI:85:GLN:NE2	2.33	0.62
2:BG:216:ASN:ND2	2:BG:275:VAL:O	2.33	0.62
2:BI:167:LEU:HD13	2:BI:200:CYS:HB2	1.82	0.62
3:DH:25:SER:HA	3:DH:30:ILE:HD13	1.81	0.62
8:F3:174:LYS:NZ	8:F3:237:ASP:OD1	2.27	0.62
9:G2:513:LEU:O	9:G2:516:MET:HG3	1.99	0.62
2:GE:214:ARG:NH1	2:GE:215:ARG:HG3	2.15	0.62
3:HF:163:ILE:HD11	3:HF:251:ARG:HD2	1.81	0.62
3:HF:211:CYS:SG	3:HF:220:PRO:HG3	2.39	0.62
3:HH:379:LYS:O	3:HH:382:SER:OG	2.14	0.62
3:JH:28:HIS:O	3:JH:43:GLN:NE2	2.33	0.62
14:K2:398:VAL:HG21	14:K2:409:LEU:HD11	1.80	0.62
14:K3:327:GLU:HA	14:K3:330:ASN:HD22	1.64	0.62
2:KE:115:VAL:HA	2:KE:118:VAL:HG22	1.81	0.62
3:KF:8:GLN:NE2	3:KF:136:THR:OG1	2.32	0.62
3:KH:163:ILE:HD11	3:KH:251:ARG:HB2	1.82	0.62
3:KH:405:GLU:HA	3:KH:408:PHE:HD2	1.63	0.62
15:L2:27:TYR:CD1	2:ME:429:GLU:HG3	2.33	0.62
3:MH:376:GLU:OE1	3:MH:376:GLU:N	2.26	0.62
3:ND:142:GLY:N	25:ND:501:GTP:O3B	2.31	0.62
3:NH:12:CYS:HB3	25:NH:501:GTP:O4'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:345:ILE:HD12	3:NH:346:PRO:HD2	1.80	0.62
3:OD:100:ASN:HB3	3:OD:103:LYS:HB2	1.80	0.62
3:OD:141:GLY:HA3	25:OD:501:GTP:H5''	1.80	0.62
3:OD:197:ASP:OD1	3:OD:198:GLU:N	2.32	0.62
3:OH:238:THR:HG21	3:OH:318:ARG:HD2	1.82	0.62
2:OI:276:ILE:HD11	2:OI:280:LYS:HG2	1.80	0.62
2:OI:325:PRO:O	2:OI:329:ASN:ND2	2.32	0.62
19:P1:392:ALA:HB1	19:P1:420:VAL:HG12	1.82	0.62
3:PF:258:VAL:HG13	2:PG:407:TRP:HE1	1.64	0.62
2:PI:99:ALA:H	2:PI:145:THR:HG22	1.65	0.62
2:PI:226:ASN:ND2	2:PI:367:ASP:OD2	2.32	0.62
3:QF:156:ARG:NH1	3:QF:195:ASN:O	2.32	0.62
2:QG:413:MET:HG3	2:QG:414:GLU:H	1.63	0.62
2:RE:274:PRO:HG3	2:RE:374:ALA:HA	1.81	0.62
2:RE:392:ASP:O	2:RE:422:ARG:NH1	2.30	0.62
3:RF:211:CYS:O	3:RF:216:LYS:N	2.31	0.62
2:RG:285:GLN:HE22	2:RG:287:SER:HB3	1.65	0.62
3:RH:5:VAL:HG23	3:RH:130:LEU:HD11	1.81	0.62
3:RJ:269:GLY:N	3:RJ:367:PHE:O	2.33	0.62
3:SJ:299:MET:SD	3:SJ:300:MET:N	2.73	0.62
2:UE:117:LEU:O	2:UE:121:ARG:HG2	2.00	0.62
2:VE:5:ILE:O	2:VE:135:PHE:HA	1.99	0.62
2:VG:344:VAL:HG22	2:VG:346:TRP:H	1.63	0.62
2:WE:296:PHE:HE2	2:WE:335:ILE:HG13	1.64	0.62
3:WH:83:GLN:O	3:WH:86:ARG:NH2	2.31	0.62
2:WI:54:SER:HB2	2:WI:62:VAL:HB	1.82	0.62
24:YK:97:LEU:O	24:YK:101:LYS:HG2	1.99	0.62
1:A2:367:ARG:HH22	10:G5:179:LYS:HA	1.64	0.62
3:AH:274:THR:O	3:AH:276:ARG:NH2	2.33	0.62
3:AH:344:TRP:HD1	2:AI:401:LYS:HE2	1.64	0.62
3:CH:47:ILE:HG22	11:H4:224:PHE:CZ	2.34	0.62
3:CJ:101:TRP:HB2	3:CJ:184:ASN:HD22	1.64	0.62
3:CJ:309:ARG:NH2	3:CJ:426:GLN:O	2.32	0.62
2:DE:27:GLU:OE2	2:DE:28:HIS:ND1	2.32	0.62
7:E2:43:ILE:HG13	7:E2:44:LYS:N	2.15	0.62
8:F2:253:ASP:OD1	8:F2:254:ILE:N	2.32	0.62
3:FD:11:GLN:O	25:FD:501:GTP:N2	2.31	0.62
2:FG:88:HIS:HE1	2:FG:90:GLU:HG2	1.65	0.62
3:GF:375:GLN:N	3:GF:375:GLN:OE1	2.32	0.62
2:HG:210:TYR:HE1	2:HG:227:LEU:HD11	1.64	0.62
3:IF:246:LEU:HD12	3:IF:352:ALA:HB1	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L2:109:ASN:ND2	3:LF:425:TYR:OH	2.32	0.62
15:L2:141:LEU:HD13	2:MG:304:LYS:HG3	1.80	0.62
3:LD:190:HIS:CE1	3:LD:410:GLU:HG3	2.34	0.62
2:LE:254:GLU:OE1	2:LE:254:GLU:N	2.26	0.62
3:MH:217:LEU:HD12	3:MH:219:THR:H	1.64	0.62
2:NG:189:LEU:HA	2:NG:192:HIS:CD2	2.35	0.62
2:OG:325:PRO:HA	2:OG:328:VAL:HG12	1.82	0.62
19:P1:127:VAL:HG11	19:P1:164:VAL:HG21	1.82	0.62
19:P2:192:ARG:HH21	2:VG:38:SER:H	1.45	0.62
2:PI:280:LYS:HD2	2:PI:283:HIS:HE2	1.65	0.62
2:RG:247:ALA:HB3	2:RG:355:ILE:HB	1.81	0.62
3:SH:252:LYS:HE3	2:SI:101:ASN:HB2	1.82	0.62
2:SI:53:PHE:O	2:SI:64:ARG:NH1	2.32	0.62
2:TG:108:TYR:O	2:TG:112:LYS:NZ	2.28	0.62
3:TH:190:HIS:NE2	3:TH:414:ASN:OD1	2.32	0.62
2:TI:263:PRO:O	2:TI:265:ILE:N	2.32	0.62
3:UF:247:ASN:ND2	25:UG:501:GTP:O1A	2.28	0.62
3:UH:226:ASN:HA	3:UH:229:VAL:HG22	1.81	0.62
3:VF:101:TRP:HE1	3:VF:188:SER:HB3	1.64	0.62
3:VF:156:ARG:HD3	3:VF:164:MET:SD	2.39	0.62
2:WG:182:VAL:HA	2:WG:185:TYR:HD2	1.63	0.62
3:WH:415:MET:O	3:WH:419:VAL:HG23	2.00	0.62
3:WH:419:VAL:O	3:WH:423:GLN:NE2	2.32	0.62
2:WI:140:SER:HB2	2:WI:171:ILE:HG22	1.81	0.62
22:XD:92:GLN:OE1	22:XD:152:LEU:HB3	1.99	0.62
24:YM:153:ALA:O	24:YM:157:LYS:NZ	2.32	0.62
3:AF:376:GLU:OE1	3:AF:376:GLU:N	2.30	0.62
3:AH:334:GLN:O	3:AH:338:SER:OG	2.09	0.62
2:AI:295:CYS:O	2:AI:301:GLN:NE2	2.32	0.62
4:B7:124:ARG:NH1	6:D8:333:GLU:OE2	2.33	0.62
3:BH:359:ARG:HA	3:BH:359:ARG:CZ	2.29	0.62
3:CF:83:GLN:O	3:CF:86:ARG:NH2	2.31	0.62
2:CI:51:THR:HG23	2:CI:52:PHE:HD1	1.63	0.62
6:D7:327:THR:O	6:D7:330:THR:OG1	2.16	0.62
3:EF:173:PRO:O	3:EF:380:ARG:NH2	2.32	0.62
2:FG:117:LEU:O	2:FG:121:ARG:HG2	1.99	0.62
9:G1:433:ASP:HA	9:G1:436:ARG:HH11	1.64	0.62
9:G2:110:SER:OG	9:G2:112:GLU:OE1	2.17	0.62
10:G5:436:TYR:HB3	10:G5:522:LEU:HD11	1.79	0.62
2:GE:217:LEU:HD21	2:GE:275:VAL:HG22	1.82	0.62
2:HG:11:GLN:HA	2:HG:14:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:375:GLN:N	3:JD:375:GLN:OE1	2.33	0.62
3:JF:234:SER:O	3:JF:238:THR:HG23	1.99	0.62
2:JG:311:LYS:HE3	2:JG:344:VAL:HG12	1.81	0.62
2:KI:98:ASP:O	2:KI:105:ARG:NH2	2.33	0.62
2:MG:430:LYS:O	18:O2:46:ARG:NH2	2.33	0.62
2:NE:52:PHE:O	2:NE:64:ARG:N	2.32	0.62
2:NG:205:ASP:OD2	2:NG:304:LYS:NZ	2.31	0.62
19:P1:416:HIS:ND1	19:P1:420:VAL:HG22	2.14	0.62
19:P2:127:VAL:HG22	19:P2:139:VAL:HG22	1.81	0.62
2:PE:148:GLY:O	2:PE:151:SER:OG	2.18	0.62
2:PE:233:GLN:HE22	2:PE:234:ILE:HD13	1.64	0.62
3:PH:318:ARG:HD3	3:PH:358:PRO:HG3	1.81	0.62
2:RE:295:CYS:O	2:RE:301:GLN:NE2	2.33	0.62
2:RG:21:TRP:HA	2:RG:24:TYR:CD2	2.33	0.62
2:RG:172:TYR:HB2	2:RG:203:MET:HB3	1.81	0.62
2:RG:246:GLY:HA2	2:RG:357:TYR:HD2	1.65	0.62
3:RH:45:GLU:O	3:RH:48:ASN:ND2	2.32	0.62
2:RI:25:CYS:HB2	2:RI:30:ILE:HB	1.80	0.62
2:RI:203:MET:N	2:RI:203:MET:SD	2.72	0.62
3:RJ:139:LEU:N	3:RJ:168:SER:HG	1.97	0.62
3:SF:117:LEU:HD11	3:SF:154:LYS:HD2	1.81	0.62
3:SH:11:GLN:HE21	25:SH:501:GTP:H3'	1.65	0.62
3:SH:28:HIS:O	3:SH:43:GLN:NE2	2.33	0.62
3:SH:172:SER:OG	3:SH:205:GLU:OE2	2.18	0.62
3:TF:164:MET:N	3:TF:197:ASP:OD2	2.27	0.62
2:UE:32:PRO:O	2:UE:85:GLN:NE2	2.32	0.62
2:UE:46:ASP:OD1	2:UE:50:ASN:ND2	2.32	0.62
3:UF:3:GLU:HG2	3:UF:130:LEU:HD23	1.81	0.62
3:UF:28:HIS:O	3:UF:43:GLN:NE2	2.33	0.62
2:UG:144:GLY:N	25:UG:501:GTP:O2B	2.31	0.62
3:UH:12:CYS:HA	25:UH:501:GTP:N2	2.14	0.62
3:VD:379:LYS:O	3:VD:382:SER:OG	2.13	0.62
2:VE:301:GLN:HG3	2:VE:303:VAL:H	1.63	0.62
2:AE:326:LYS:HE3	3:AF:219:THR:HA	1.81	0.62
3:AH:3:GLU:HG2	3:AH:130:LEU:HD23	1.80	0.62
3:BF:141:GLY:HA3	25:BF:501:GTP:H5''	1.81	0.62
3:BF:379:LYS:O	3:BF:382:SER:OG	2.17	0.62
3:BH:406:MET:O	3:BH:409:THR:OG1	2.09	0.62
2:CI:254:GLU:OE1	2:CI:254:GLU:N	2.30	0.62
3:CJ:291:GLN:NE2	3:CJ:295:ASP:OD1	2.33	0.62
3:DD:268:PRO:HD2	3:DD:301:ALA:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:84:ARG:HG3	11:H3:282:ILE:HD11	1.81	0.62
2:DE:115:VAL:HA	2:DE:118:VAL:HG12	1.80	0.62
2:EG:338:LYS:HZ2	2:EG:340:THR:H	1.48	0.62
3:EH:28:HIS:O	3:EH:43:GLN:NE2	2.33	0.62
3:FD:2:ARG:HD3	3:FD:131:GLN:HG3	1.82	0.62
11:H4:227:ARG:HD2	11:H4:230:TRP:CE3	2.35	0.62
3:HF:67:ASP:OD2	3:HF:72:THR:OG1	2.16	0.62
2:HG:3:GLU:OE2	2:HG:131:GLY:N	2.33	0.62
3:HH:19:LYS:NZ	3:HH:223:GLY:O	2.31	0.62
3:HH:101:TRP:HE1	3:HH:149:THR:HG21	1.64	0.62
2:IE:262:TYR:HE1	3:IF:393:ALA:HA	1.65	0.62
3:IF:234:SER:O	3:IF:238:THR:HG23	1.99	0.62
2:JE:5:ILE:HB	2:JE:135:PHE:HD1	1.62	0.62
14:K3:109:LEU:HD23	14:K3:110:PRO:HD3	1.82	0.62
14:K4:243:GLN:HG2	14:K4:244:ALA:H	1.64	0.62
3:KF:325:GLU:HB3	2:KG:221:ARG:HH12	1.64	0.62
15:L3:193:ARG:HH22	15:L3:249:ILE:CG2	2.13	0.62
2:MG:102:ASN:HB3	2:MG:105:ARG:HB2	1.81	0.62
3:MH:390:ARG:NH2	18:O2:42:ILE:HG12	2.14	0.62
3:NH:173:PRO:O	3:NH:380:ARG:NH2	2.33	0.62
18:O1:55:ARG:O	18:O1:57:LYS:NZ	2.28	0.62
19:P2:18:ALA:HB1	19:P2:364:LYS:HD3	1.82	0.62
19:P2:126:LEU:O	19:P2:139:VAL:HA	2.00	0.62
2:QE:325:PRO:O	2:QE:329:ASN:ND2	2.32	0.62
2:QG:349:THR:HG23	3:QH:179:VAL:HG12	1.82	0.62
3:QH:12:CYS:SG	25:QH:501:GTP:H5'	2.40	0.62
3:QH:233:MET:HA	3:QH:236:VAL:HG22	1.82	0.62
3:RH:56:GLY:O	3:RH:58:LYS:NZ	2.28	0.62
3:RH:172:SER:OG	3:RH:205:GLU:OE2	2.16	0.62
3:RH:344:TRP:NE1	3:RH:425:TYR:O	2.33	0.62
3:SF:15:GLN:NE2	25:SF:501:GTP:C2	2.64	0.62
3:SF:269:GLY:N	3:SF:367:PHE:O	2.32	0.62
2:SI:147:SER:HB2	2:SI:190:THR:HG21	1.82	0.62
3:TF:252:LYS:O	3:TF:256:ASN:ND2	2.32	0.62
3:TH:104:GLY:HA2	3:TH:108:GLU:HB2	1.82	0.62
3:VH:1:MET:HG3	3:VH:2:ARG:H	1.62	0.62
3:WH:322:SER:OG	3:WH:324:LYS:NZ	2.27	0.62
3:WH:385:PHE:CZ	3:WH:408:PHE:HB3	2.35	0.62
2:WI:5:ILE:HD13	2:WI:64:ARG:HB3	1.82	0.62
22:XD:113:ARG:NE	22:XD:114:VAL:H	1.96	0.62
23:XK:156:LEU:HA	23:XK:159:LEU:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:208:ALA:H	2:AG:304:LYS:HZ1	1.47	0.62
3:AH:313:VAL:HG23	3:AH:349:VAL:HA	1.82	0.62
2:AI:5:ILE:O	2:AI:135:PHE:HA	1.99	0.62
2:BI:32:PRO:O	2:BI:85:GLN:NE2	2.32	0.62
3:CF:152:ILE:HA	3:CF:155:ILE:HG22	1.82	0.62
2:CG:120:ASP:OD1	2:CG:123:ARG:NH1	2.33	0.62
3:CJ:8:GLN:HG3	3:CJ:65:LEU:HA	1.81	0.62
3:ED:144:GLY:N	25:ED:501:GTP:O2B	2.29	0.62
3:EH:152:ILE:HA	3:EH:155:ILE:HG12	1.81	0.62
10:G5:24:GLN:HG2	2:MG:50:ASN:HD21	1.63	0.62
3:GH:342:VAL:HG22	3:GH:344:TRP:H	1.65	0.62
2:HG:235:VAL:HA	2:HG:238:ILE:HG12	1.81	0.62
2:IE:396:ASP:OD1	2:IE:397:LEU:N	2.33	0.62
3:IF:252:LYS:O	3:IF:256:ASN:ND2	2.32	0.62
2:II:5:ILE:HB	2:II:135:PHE:HD1	1.63	0.62
3:JF:31:ASP:OD2	3:JF:33:THR:OG1	2.18	0.62
3:JF:40:SER:HB2	3:JF:43:GLN:HG2	1.81	0.62
2:KE:180:ALA:HB3	2:KE:183:GLU:HB2	1.81	0.62
2:KI:301:GLN:OE1	2:KI:301:GLN:N	2.33	0.62
15:L3:193:ARG:HH22	15:L3:249:ILE:HG23	1.63	0.62
2:LG:239:THR:OG1	2:LG:243:ARG:NH1	2.31	0.62
2:ME:338:LYS:HZ2	2:ME:340:THR:H	1.48	0.62
3:MH:111:GLU:OE1	3:MH:111:GLU:N	2.33	0.62
3:OD:86:ARG:HE	3:OD:87:PRO:HD2	1.65	0.62
2:OI:53:PHE:O	2:OI:64:ARG:NH1	2.33	0.62
19:P1:244:PRO:HB2	19:P1:248:LYS:HG2	1.81	0.62
19:P2:503:THR:OG1	19:P2:522:THR:N	2.33	0.62
3:PF:172:SER:OG	3:PF:205:GLU:OE2	2.18	0.62
3:PH:250:LEU:HD13	3:PH:253:LEU:HD12	1.80	0.62
2:PI:1:MET:N	2:PI:130:THR:OG1	2.33	0.62
2:RE:5:ILE:O	2:RE:135:PHE:HA	1.99	0.62
2:RI:89:PRO:HD2	2:SI:280:LYS:HZ3	1.64	0.62
3:SH:12:CYS:HA	25:SH:501:GTP:N2	2.15	0.62
2:TG:172:TYR:N	2:TG:204:VAL:O	2.27	0.62
3:TH:183:TYR:CD1	3:TH:388:MET:HE3	2.35	0.62
2:TI:85:GLN:OE1	2:TI:85:GLN:N	2.31	0.62
3:UD:107:THR:OG1	3:UD:108:GLU:OE1	2.17	0.62
2:UE:30:ILE:HA	2:UE:36:MET:HE1	1.81	0.62
3:UF:51:TYR:HB3	3:UF:59:TYR:HB3	1.82	0.62
2:UG:254:GLU:OE1	2:UG:254:GLU:N	2.31	0.62
3:VD:415:MET:O	3:VD:419:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:171:ILE:HD12	2:VG:204:VAL:HG23	1.80	0.62
3:WF:7:LEU:HD13	3:WF:64:VAL:HB	1.80	0.62
3:WF:309:ARG:NH2	3:WF:426:GLN:O	2.33	0.62
23:XK:60:TYR:HE1	23:XK:65:PHE:H	1.45	0.62
2:AE:415:GLU:OE1	2:AE:415:GLU:N	2.28	0.62
3:AF:101:TRP:HB2	3:AF:184:ASN:HD22	1.65	0.62
4:B7:39:ARG:O	4:B7:43:ARG:HD2	1.99	0.62
2:BI:160:ASP:OD1	2:BI:161:TYR:N	2.33	0.62
3:CF:392:LYS:HB2	3:CF:395:LEU:HD13	1.82	0.62
2:CG:33:ASP:OD1	2:CG:34:GLY:N	2.32	0.62
2:EG:318:LEU:HB3	2:EG:376:CYS:SG	2.40	0.62
3:FD:311:LEU:HD23	3:FD:342:VAL:HG11	1.82	0.62
2:FG:346:TRP:CZ3	3:FH:391:ARG:HB2	2.34	0.62
3:FH:375:GLN:HA	3:FH:378:PHE:CZ	2.34	0.62
10:G5:573:HIS:CE1	10:G5:575:LYS:HD3	2.35	0.62
3:HD:293:MET:HE3	3:HD:367:PHE:HB3	1.80	0.62
2:HI:371:VAL:HG11	2:HI:374:ALA:HB2	1.82	0.62
3:IF:389:PHE:HZ	3:IF:405:GLU:HB2	1.65	0.62
2:II:102:ASN:HD21	2:II:411:GLU:HG2	1.65	0.62
2:II:391:LEU:HB3	2:II:395:PHE:HE2	1.65	0.62
3:JF:275:SER:H	3:JF:278:SER:HG	1.44	0.62
2:JG:396:ASP:HA	2:JG:422:ARG:HH22	1.65	0.62
3:ND:278:SER:O	3:ND:282:ARG:HB2	2.00	0.62
3:NH:2:ARG:NH1	2:NI:96:LYS:O	2.32	0.62
18:O1:105:ALA:O	18:O1:109:LEU:HD13	1.99	0.62
3:OD:309:ARG:N	3:OD:372:THR:OG1	2.31	0.62
3:OF:215:LEU:O	3:OF:276:ARG:NH1	2.33	0.62
2:OG:89:PRO:HD2	2:PG:280:LYS:NZ	2.14	0.62
2:OG:358:GLN:NE2	2:OG:359:PRO:O	2.33	0.62
19:P2:229:ILE:O	19:P2:243:GLY:N	2.32	0.62
2:PI:88:HIS:CE1	2:PI:121:ARG:HH22	2.17	0.62
3:QF:322:SER:OG	3:QF:324:LYS:NZ	2.33	0.62
2:QG:115:VAL:HA	2:QG:118:VAL:HG22	1.82	0.62
2:RE:216:ASN:HD21	2:RE:275:VAL:HG23	1.62	0.62
2:RI:75:VAL:HG22	2:RI:79:ARG:HH21	1.64	0.62
2:RI:186:ASN:OD1	2:RI:187:SER:N	2.33	0.62
2:SE:264:ARG:O	2:SE:266:HIS:ND1	2.29	0.62
3:SF:178:THR:HG23	3:SF:181:GLU:HB2	1.82	0.62
3:SH:137:HIS:O	3:SH:168:SER:HA	2.00	0.62
2:SI:254:GLU:N	2:SI:254:GLU:OE1	2.33	0.62
2:TI:46:ASP:HA	2:TI:50:ASN:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:160:ASP:OD1	2:VG:161:TYR:N	2.32	0.62
2:WE:98:ASP:O	2:WE:105:ARG:NH2	2.30	0.62
23:XJ:85:GLU:OE2	23:XJ:86:LYS:NZ	2.33	0.62
2:AG:127:ASP:OD1	2:AG:128:LEU:N	2.32	0.62
2:AI:208:ALA:N	2:AI:304:LYS:HZ1	1.88	0.62
4:B3:121:GLU:HG3	6:D3:409:ARG:HH12	1.64	0.62
4:B3:187:ARG:HH12	7:E2:153:ARG:NH1	1.98	0.62
4:B8:111:ASP:OD1	4:B8:112:VAL:N	2.33	0.62
4:B8:118:THR:HA	6:D7:409:ARG:NH2	2.15	0.62
3:BF:48:ASN:O	3:BF:62:ARG:NH2	2.32	0.62
2:BI:239:THR:OG1	2:BI:243:ARG:NH1	2.33	0.62
3:CF:330:MET:HG3	3:CF:349:VAL:HG11	1.82	0.62
2:CG:22:GLU:HG2	2:CG:83:TYR:HE2	1.64	0.62
3:EF:178:THR:HB	3:EF:181:GLU:HG3	1.81	0.62
2:EG:15:GLN:CD	25:EG:501:GTP:HN1	2.04	0.62
3:EH:341:PHE:HB3	3:EH:348:ASN:HD21	1.63	0.62
8:F3:90:TYR:HB3	10:G5:560:ARG:NE	2.15	0.62
3:FD:99:ASN:HB2	3:FD:142:GLY:HA3	1.81	0.62
11:H4:4:THR:OG1	11:H4:5:GLN:N	2.32	0.62
2:HI:306:ASP:OD2	2:HI:309:HIS:N	2.32	0.62
2:HI:363:VAL:H	2:HI:368:LEU:HD21	1.65	0.62
2:IE:12:ALA:O	25:IE:501:GTP:N2	2.32	0.62
2:IE:276:ILE:HG21	2:IE:281:ALA:HB2	1.82	0.62
3:IH:392:LYS:HG3	3:IH:395:LEU:HD13	1.81	0.62
3:KD:67:ASP:OD1	3:KD:68:LEU:N	2.33	0.62
2:KG:102:ASN:OD1	2:KG:104:ALA:N	2.33	0.62
2:KI:10:GLY:O	2:KI:13:GLY:N	2.33	0.62
15:L2:128:LYS:H	15:L2:131:GLY:HA3	1.64	0.62
3:LD:186:THR:HB	3:LD:385:PHE:CZ	2.34	0.62
3:LF:324:LYS:HD2	2:LG:221:ARG:HA	1.82	0.62
2:LG:207:GLU:HB2	2:LG:304:LYS:NZ	2.14	0.62
3:LH:344:TRP:CD1	2:LI:401:LYS:HD3	2.34	0.62
2:MG:161:TYR:HB3	2:MG:164:LYS:NZ	2.15	0.62
2:NG:102:ASN:HB3	2:NG:105:ARG:HB2	1.81	0.62
3:NH:326:VAL:O	3:NH:330:MET:HG2	1.98	0.62
3:OD:328:GLU:OE1	3:OD:332:ASN:ND2	2.32	0.62
2:OG:235:VAL:HA	2:OG:238:ILE:HG12	1.82	0.62
3:PF:322:SER:OG	3:PF:324:LYS:NZ	2.32	0.62
2:PI:84:ARG:NH2	24:YM:126:SER:OG	2.33	0.62
20:Q2:1396:TYR:HA	20:Q2:1399:PHE:HB3	1.81	0.62
3:QF:215:LEU:O	3:QF:276:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:166:LYS:O	2:QG:199:ASP:HB2	2.00	0.62
3:QH:189:VAL:HA	3:QH:192:LEU:HB2	1.82	0.62
2:RE:21:TRP:CZ2	2:RE:65:ALA:HB2	2.34	0.62
3:RJ:11:GLN:HE21	25:RJ:501:GTP:H3'	1.64	0.62
3:SF:271:ALA:HB1	3:SF:272:PRO:HD2	1.82	0.62
2:SG:287:SER:OG	2:SG:290:GLU:OE1	2.15	0.62
3:TJ:375:GLN:N	3:TJ:375:GLN:OE1	2.32	0.62
2:UE:89:PRO:HD2	2:VE:280:LYS:HZ3	1.64	0.62
3:VH:187:LEU:O	3:VH:191:GLN:NE2	2.33	0.62
3:WF:378:PHE:CD1	3:WF:419:VAL:HG22	2.35	0.62
2:WG:245:ASP:HB2	2:WG:357:TYR:HE2	1.65	0.62
22:XD:66:LYS:HD2	22:XD:66:LYS:H	1.64	0.62
24:YK:30:GLU:OE1	24:YK:33:ARG:NH2	2.33	0.62
3:BF:302:ALA:HB1	3:BF:377:LEU:HD11	1.81	0.61
2:BI:66:VAL:HG22	2:BI:91:GLN:HG3	1.82	0.61
5:C8:298:GLU:N	5:C8:298:GLU:OE1	2.32	0.61
2:CG:22:GLU:HG2	2:CG:83:TYR:CE2	2.35	0.61
2:CG:254:GLU:OE1	2:CG:254:GLU:N	2.32	0.61
2:CI:84:ARG:HH21	11:H4:213:ILE:HG12	1.65	0.61
3:CJ:2:ARG:HD2	3:CJ:131:GLN:HE22	1.65	0.61
3:DF:156:ARG:NH1	3:DF:195:ASN:O	2.33	0.61
7:E3:49:TRP:HD1	7:E3:62:VAL:HG12	1.65	0.61
8:F2:396:LEU:HA	8:F2:399:ARG:HG2	1.80	0.61
3:FD:151:LEU:O	3:FD:155:ILE:HG12	2.00	0.61
3:FF:216:LYS:HD2	3:FF:276:ARG:HH12	1.65	0.61
2:FG:180:ALA:HB1	2:FG:182:VAL:HG12	1.81	0.61
3:GF:16:ILE:HD13	3:GF:226:ASN:HD22	1.65	0.61
2:HI:6:SER:OG	2:HI:8:HIS:NE2	2.29	0.61
2:HI:205:ASP:OD2	2:HI:304:LYS:NZ	2.32	0.61
2:JE:216:ASN:HD21	2:JE:275:VAL:HG23	1.65	0.61
2:JE:333:ALA:HA	2:JE:336:LYS:HD2	1.82	0.61
3:JF:4:ILE:HD11	3:JF:131:GLN:HB2	1.80	0.61
3:JF:141:GLY:HA3	25:JF:501:GTP:H5''	1.80	0.61
2:JG:254:GLU:N	2:JG:254:GLU:OE1	2.33	0.61
14:K3:271:PRO:HD2	24:YK:160:ARG:NH1	2.15	0.61
2:KG:156:ARG:HA	2:KG:159:VAL:HG22	1.81	0.61
2:KG:363:VAL:H	2:KG:368:LEU:HD21	1.65	0.61
15:L2:76:LYS:HD2	15:L2:78:PHE:H	1.63	0.61
15:L2:128:LYS:HE2	2:MG:214:ARG:HG2	1.81	0.61
3:LD:211:CYS:HA	3:LD:215:LEU:HB2	1.82	0.61
2:LI:301:GLN:OE1	2:LI:301:GLN:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:261:PRO:O	3:MF:264:HIS:NE2	2.33	0.61
3:MF:330:MET:HG3	3:MF:349:VAL:HG11	1.82	0.61
2:OI:182:VAL:HA	2:OI:185:TYR:HD1	1.65	0.61
19:P1:455:GLU:HG3	19:P1:457:LEU:HD22	1.81	0.61
2:PG:246:GLY:HA2	2:PG:357:TYR:HD1	1.63	0.61
2:PI:245:ASP:OD1	2:PI:249:ASN:ND2	2.33	0.61
2:QE:144:GLY:N	25:QE:501:GTP:O2B	2.32	0.61
2:QG:142:GLY:HA2	2:QG:183:GLU:OE2	2.00	0.61
2:QG:246:GLY:HA2	2:QG:357:TYR:CD2	2.35	0.61
2:RE:88:HIS:CE1	2:RE:121:ARG:HH22	2.17	0.61
3:SH:2:ARG:HA	3:SH:129:CYS:O	2.00	0.61
3:SH:3:GLU:HG2	3:SH:130:LEU:HD23	1.81	0.61
3:TF:77:ARG:HD3	3:TF:90:PHE:HE2	1.65	0.61
3:TH:247:ASN:OD1	2:TI:11:GLN:NE2	2.33	0.61
3:TJ:54:ALA:HB3	3:TJ:58:LYS:HB3	1.80	0.61
2:UE:1:MET:SD	2:UE:2:ARG:N	2.73	0.61
3:VF:6:HIS:HD2	3:VF:134:GLN:HG2	1.65	0.61
2:WG:236:SER:O	2:WG:243:ARG:NH2	2.24	0.61
2:WG:293:ASN:OD1	2:WG:294:ALA:N	2.33	0.61
22:XC:54:VAL:HG22	22:XC:157:HIS:HB3	1.80	0.61
24:YJ:22:GLN:HE22	24:YJ:121:VAL:HB	1.65	0.61
2:AG:1:MET:SD	2:AG:2:ARG:N	2.73	0.61
4:B2:307:LYS:HE3	4:B2:349:ILE:HD13	1.82	0.61
2:BG:203:MET:SD	2:BG:203:MET:N	2.73	0.61
3:BH:1:MET:SD	3:BH:2:ARG:N	2.73	0.61
5:C3:377:MET:HE3	7:E2:76:TRP:HB3	1.82	0.61
3:CH:392:LYS:HB2	3:CH:395:LEU:HD13	1.83	0.61
6:D3:111:HIS:HA	6:D3:114:LYS:HD3	1.82	0.61
2:DG:311:LYS:HG2	2:DG:342:GLN:HB3	1.82	0.61
2:DG:398:MET:HA	2:DG:401:LYS:HG2	1.81	0.61
3:ED:4:ILE:HD11	3:ED:131:GLN:HB2	1.81	0.61
2:IG:220:GLU:O	2:IG:221:ARG:NE	2.34	0.61
2:IG:311:LYS:N	2:IG:382:THR:OG1	2.32	0.61
3:IH:318:ARG:NE	3:IH:356:ILE:O	2.32	0.61
3:JF:380:ARG:O	3:JF:384:GLN:HG2	2.00	0.61
3:KD:152:ILE:O	3:KD:156:ARG:HG2	2.00	0.61
2:LE:212:ILE:HG13	2:LE:215:ARG:HH21	1.65	0.61
2:MG:75:VAL:HG22	2:MG:79:ARG:HH21	1.66	0.61
3:MH:375:GLN:HE21	3:MH:422:TYR:HB3	1.63	0.61
2:MI:264:ARG:O	2:MI:266:HIS:ND1	2.32	0.61
3:ND:53:GLU:HG3	3:ND:54:ALA:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:380:ARG:O	3:NF:384:GLN:HG2	2.00	0.61
19:P2:586:HIS:CE1	19:P2:612:LEU:HD13	2.35	0.61
2:QE:6:SER:O	2:QE:65:ALA:HA	1.99	0.61
2:QG:54:SER:HB2	2:QG:62:VAL:HB	1.81	0.61
2:RE:319:TYR:HA	2:RE:374:ALA:O	2.00	0.61
3:RH:48:ASN:O	3:RH:62:ARG:NH2	2.29	0.61
2:SG:274:PRO:HG3	2:SG:374:ALA:HA	1.82	0.61
3:SH:211:CYS:HA	3:SH:215:LEU:HB2	1.82	0.61
3:SJ:169:VAL:HA	3:SJ:202:ILE:HB	1.82	0.61
2:TG:88:HIS:CE1	2:TG:121:ARG:HH22	2.18	0.61
3:TH:261:PRO:O	3:TH:264:HIS:NE2	2.33	0.61
3:TH:378:PHE:HA	3:TH:381:ILE:HG22	1.80	0.61
2:TI:1:MET:N	2:TI:130:THR:OG1	2.32	0.61
2:WE:33:ASP:OD1	2:WE:34:GLY:N	2.33	0.61
23:XJ:102:GLU:OE2	23:XJ:104:THR:N	2.33	0.61
3:AF:259:PRO:O	2:AG:406:HIS:NE2	2.27	0.61
2:BG:396:ASP:OD1	2:BG:397:LEU:N	2.34	0.61
5:C7:289:ARG:HB3	6:D3:184:ARG:HH21	1.63	0.61
3:CJ:217:LEU:HD11	3:CJ:220:PRO:HB3	1.81	0.61
7:E2:152:THR:C	7:E2:154:ASN:H	2.02	0.61
2:EE:85:GLN:OE1	2:EE:85:GLN:N	2.28	0.61
2:FE:17:GLY:HA3	2:FE:67:PHE:HE1	1.65	0.61
3:GD:347:ASN:O	3:GD:350:LYS:NZ	2.32	0.61
3:GF:12:CYS:HB3	25:GF:501:GTP:O4'	2.00	0.61
3:GF:172:SER:OG	3:GF:205:GLU:OE2	2.18	0.61
3:GF:350:LYS:HE3	2:GG:181:VAL:H	1.63	0.61
2:GI:196:GLU:OE1	2:GI:196:GLU:N	2.26	0.61
3:HF:374:ILE:HG22	3:HF:378:PHE:HD2	1.65	0.61
2:IE:67:PHE:HB2	2:IE:92:LEU:HD13	1.82	0.61
2:IE:144:GLY:N	25:IE:501:GTP:O2B	2.33	0.61
2:IG:185:TYR:HA	2:IG:395:PHE:HE2	1.63	0.61
2:II:68:VAL:HG12	2:II:93:ILE:HB	1.82	0.61
3:JH:114:ASP:OD1	3:JH:115:SER:N	2.33	0.61
14:K3:154:LEU:HD11	14:K3:224:LEU:HD21	1.81	0.61
14:K3:409:LEU:HD12	14:K3:411:GLU:HG3	1.82	0.61
2:KE:384:ILE:HB	2:KE:388:TRP:HZ3	1.64	0.61
2:KG:25:CYS:HB2	2:KG:30:ILE:HB	1.81	0.61
2:KG:287:SER:OG	2:KG:290:GLU:OE1	2.18	0.61
15:L2:80:ARG:HG2	15:L2:81:CYS:H	1.65	0.61
15:L2:88:VAL:HG13	2:LE:262:TYR:HB3	1.81	0.61
2:LG:311:LYS:N	2:LG:382:THR:OG1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LI:236:SER:O	2:LI:243:ARG:NH2	2.32	0.61
2:LI:415:GLU:HA	2:LI:418:PHE:CD2	2.35	0.61
3:NF:114:ASP:OD1	3:NF:115:SER:N	2.30	0.61
2:NG:256:GLN:O	2:NG:260:VAL:HG12	1.99	0.61
3:NH:69:GLU:O	3:NH:72:THR:OG1	2.17	0.61
2:NI:318:LEU:O	2:NI:375:VAL:HA	2.00	0.61
3:OH:256:ASN:ND2	3:OH:350:LYS:HD2	2.15	0.61
19:P2:416:HIS:ND1	19:P2:420:VAL:HG22	2.14	0.61
19:P2:566:ASP:O	19:P2:567:HIS:ND1	2.34	0.61
2:QE:338:LYS:HZ2	2:QE:340:THR:H	1.47	0.61
2:QE:429:GLU:HA	2:QE:432:TYR:HD2	1.65	0.61
3:QH:247:ASN:HB3	3:QH:252:LYS:HG2	1.83	0.61
21:R2:118:ARG:HA	21:R2:148:ARG:HA	1.82	0.61
3:RH:269:GLY:N	3:RH:367:PHE:O	2.33	0.61
3:RJ:55:THR:HG23	3:SJ:283:ALA:HA	1.82	0.61
2:SG:90:GLU:OE1	2:TG:280:LYS:NZ	2.33	0.61
2:TI:53:PHE:O	2:TI:64:ARG:NH1	2.33	0.61
2:TI:236:SER:O	2:TI:243:ARG:NH2	2.34	0.61
3:UD:392:LYS:HD3	3:UD:395:LEU:HD13	1.82	0.61
2:UG:147:SER:HB2	2:UG:190:THR:HG21	1.81	0.61
3:UH:101:TRP:HB2	3:UH:184:ASN:ND2	2.16	0.61
3:VD:8:GLN:NE2	3:VD:17:GLY:HA3	2.15	0.61
3:VD:12:CYS:SG	25:VD:501:GTP:H5'	2.40	0.61
3:VH:412:GLU:HA	3:VH:415:MET:HG3	1.82	0.61
3:WF:92:PHE:HB2	23:XJ:74:LYS:HD3	1.82	0.61
2:WG:184:PRO:HB2	2:WG:395:PHE:HD2	1.65	0.61
24:YK:17:LEU:O	24:YK:20:GLN:HB3	2.01	0.61
24:YL:8:LEU:HA	24:YL:11:ILE:HD12	1.81	0.61
24:YM:87:HIS:CE1	24:YM:89:GLY:HA2	2.35	0.61
1:A3:162:ARG:HH11	1:A3:165:ARG:HH22	1.49	0.61
2:AI:298:PRO:HD2	17:N3:73:PHE:CE2	2.29	0.61
2:BE:208:ALA:N	2:BE:304:LYS:HZ1	1.98	0.61
3:BF:383:GLU:OE2	3:BF:384:GLN:NE2	2.33	0.61
2:BI:329:ASN:HA	2:BI:332:ILE:HG12	1.82	0.61
3:CJ:8:GLN:HE21	3:CJ:65:LEU:HB3	1.65	0.61
6:D2:87:GLU:OE1	9:G1:7:HIS:ND1	2.33	0.61
3:EF:237:THR:HG23	3:EF:241:ARG:HH12	1.64	0.61
8:F7:336:PHE:CZ	8:F7:476:PHE:HB3	2.35	0.61
2:GE:188:ILE:HD13	2:GE:395:PHE:CE2	2.34	0.61
2:GI:5:ILE:HB	2:GI:135:PHE:CD1	2.35	0.61
3:HF:149:THR:HG21	3:HF:191:GLN:HE21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:32:PRO:O	2:HI:85:GLN:NE2	2.33	0.61
12:I2:68:CYS:HG	3:MF:37:HIS:CD2	2.18	0.61
3:JF:172:SER:OG	3:JF:205:GLU:OE2	2.17	0.61
14:K3:169:ARG:NH2	21:R2:280:TYR:OH	2.34	0.61
14:K3:320:ASP:OD1	14:K3:321:ILE:N	2.33	0.61
14:K4:109:LEU:HD23	14:K4:110:PRO:HD3	1.81	0.61
3:KF:28:HIS:HD2	3:KF:43:GLN:HB2	1.64	0.61
3:KH:111:GLU:HG2	3:KH:112:LEU:HD12	1.81	0.61
15:L3:81:CYS:SG	15:L3:82:SER:N	2.73	0.61
3:LF:6:HIS:CE1	3:LF:21:TRP:HE1	2.18	0.61
3:MF:52:ASN:ND2	3:MF:123:GLU:OE2	2.32	0.61
3:NH:12:CYS:HA	3:NH:15:GLN:NE2	2.09	0.61
2:OE:341:ILE:O	2:OE:342:GLN:NE2	2.27	0.61
19:P1:570:LYS:HB2	19:P1:572:TRP:CH2	2.36	0.61
2:PE:292:THR:HG21	2:PE:335:ILE:HD11	1.80	0.61
2:RE:3:GLU:OE2	2:RE:130:THR:N	2.32	0.61
3:RF:111:GLU:N	3:RF:111:GLU:OE1	2.33	0.61
2:RI:98:ASP:OD1	2:RI:99:ALA:N	2.33	0.61
3:RJ:255:VAL:HA	3:RJ:258:VAL:HG12	1.81	0.61
2:SE:127:ASP:OD1	2:SE:128:LEU:N	2.30	0.61
3:SF:169:VAL:HA	3:SF:202:ILE:HB	1.82	0.61
2:SG:83:TYR:HB3	2:SG:86:LEU:HD12	1.81	0.61
3:SH:313:VAL:HG23	3:SH:349:VAL:HA	1.81	0.61
2:SI:286:LEU:HG	2:SI:373:ARG:HE	1.65	0.61
3:TJ:372:THR:HG21	3:TJ:426:GLN:HG2	1.81	0.61
2:VE:176:GLN:NE2	2:VE:207:GLU:OE2	2.33	0.61
3:VF:13:GLY:HA2	3:VF:16:ILE:HG12	1.83	0.61
3:VF:375:GLN:HA	3:VF:378:PHE:CZ	2.35	0.61
24:YJ:59:ASN:N	24:YJ:63:ARG:HH12	1.97	0.61
24:YL:155:SER:HA	24:YL:158:LEU:HG	1.82	0.61
2:AE:32:PRO:HA	2:AE:86:LEU:HD11	1.81	0.61
2:AE:167:LEU:HD11	2:AE:202:PHE:CE2	2.36	0.61
2:AE:207:GLU:HB2	2:AE:304:LYS:NZ	2.15	0.61
2:AE:362:VAL:HA	2:AE:368:LEU:HD11	1.82	0.61
2:AG:101:ASN:HB3	2:AG:182:VAL:HG11	1.81	0.61
3:AH:273:LEU:H	3:AH:292:GLN:HE22	1.48	0.61
2:BG:392:ASP:HB3	2:BG:425:LEU:HD23	1.81	0.61
2:DG:79:ARG:HG2	11:H4:282:ILE:HD11	1.82	0.61
3:DH:48:ASN:O	3:DH:62:ARG:NH2	2.34	0.61
3:ED:111:GLU:HG2	3:ED:112:LEU:HD12	1.83	0.61
2:EG:220:GLU:HG3	2:EG:221:ARG:HG2	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:380:ARG:O	3:EH:384:GLN:HG2	2.01	0.61
3:FD:310:TYR:HA	3:FD:371:SER:HA	1.83	0.61
3:FF:7:LEU:HB2	3:FF:135:LEU:HG	1.82	0.61
11:H4:12:PRO:O	11:H4:13:GLU:C	2.39	0.61
2:HE:216:ASN:ND2	2:HE:275:VAL:O	2.34	0.61
2:IE:265:ILE:HD12	2:IE:432:TYR:CE1	2.36	0.61
2:IG:53:PHE:HB3	2:IG:61:HIS:HB3	1.81	0.61
3:IH:187:LEU:HD21	3:IH:408:PHE:CE1	2.36	0.61
3:JD:245:GLN:OE1	2:JE:15:GLN:NE2	2.33	0.61
14:K2:326:GLN:OE1	14:K2:330:ASN:ND2	2.34	0.61
14:K3:34:LEU:HB3	14:K3:38:ARG:NH1	2.16	0.61
2:KG:332:ILE:HG13	2:KG:336:LYS:HZ1	1.65	0.61
3:KH:194:GLU:OE2	21:R2:136:ARG:NE	2.23	0.61
15:L3:76:LYS:HZ2	2:LI:414:GLU:H	1.48	0.61
15:L3:86:PRO:O	2:LI:264:ARG:NH1	2.34	0.61
2:LE:16:ILE:CG2	25:LE:501:GTP:HN21	2.13	0.61
2:LE:88:HIS:ND1	2:ME:284:GLU:OE2	2.32	0.61
2:LG:437:VAL:HG13	21:R2:264:HIS:CE1	2.36	0.61
3:MF:299:MET:SD	3:MF:301:ALA:N	2.72	0.61
3:MH:206:ALA:O	3:MH:210:ILE:HG12	2.00	0.61
2:NE:229:ARG:NH1	2:NE:365:GLY:O	2.33	0.61
2:OE:48:SER:OG	2:OE:243:ARG:NH2	2.34	0.61
2:OE:70:LEU:HD12	2:OE:110:ILE:HD13	1.81	0.61
2:OE:398:MET:HA	2:OE:401:LYS:HE2	1.82	0.61
3:OF:142:GLY:N	25:OF:501:GTP:O3B	2.33	0.61
3:OH:73:MET:HA	3:OH:76:VAL:HG22	1.82	0.61
2:OI:68:VAL:HG12	2:OI:93:ILE:HB	1.83	0.61
19:P1:304:GLN:NE2	19:P1:318:ASN:OD1	2.34	0.61
3:PF:214:THR:HG21	3:PF:273:LEU:HB3	1.82	0.61
2:PI:24:TYR:O	2:PI:28:HIS:ND1	2.25	0.61
2:RE:53:PHE:O	2:RE:64:ARG:NH1	2.33	0.61
2:RI:117:LEU:O	2:RI:121:ARG:HG2	2.01	0.61
2:RI:160:ASP:OD1	2:RI:161:TYR:N	2.33	0.61
2:SE:271:THR:HB	2:SE:377:MET:HB3	1.83	0.61
2:SI:392:ASP:OD1	2:SI:393:HIS:N	2.32	0.61
2:SI:415:GLU:OE2	2:SI:415:GLU:N	2.26	0.61
3:SJ:30:ILE:HG13	3:SJ:36:TYR:HB2	1.82	0.61
3:SJ:117:LEU:HD11	3:SJ:154:LYS:HD2	1.83	0.61
2:TI:329:ASN:HA	2:TI:332:ILE:HG12	1.82	0.61
3:TJ:3:GLU:HG2	3:TJ:130:LEU:HD23	1.81	0.61
3:UH:328:GLU:OE1	3:UH:332:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:280:LYS:HA	2:VG:283:HIS:CE1	2.36	0.61
2:WG:32:PRO:O	2:WG:85:GLN:NE2	2.33	0.61
2:WG:297:GLU:OE1	2:WG:300:ASN:ND2	2.32	0.61
3:WH:125:GLU:HG2	22:XE:45:LEU:HB3	1.81	0.61
3:WH:330:MET:HG3	3:WH:349:VAL:HG11	1.81	0.61
4:B3:187:ARG:NH2	7:E2:154:ASN:OD1	2.34	0.61
4:B7:389:LYS:HA	5:C8:337:TRP:CH2	2.34	0.61
5:C3:230:GLN:HB3	5:C3:234:ARG:HH12	1.64	0.61
5:C7:119:ARG:HH22	7:E2:149:PHE:H	1.49	0.61
3:CF:306:ARG:O	3:CF:306:ARG:NE	2.33	0.61
3:EH:379:LYS:HE3	3:EH:419:VAL:HG13	1.83	0.61
3:FD:198:GLU:HG2	3:FD:266:PHE:HE2	1.65	0.61
2:FE:264:ARG:HG2	2:FE:265:ILE:H	1.66	0.61
2:GG:342:GLN:N	2:GG:342:GLN:OE1	2.34	0.61
11:H4:15:HIS:O	11:H4:16:TYR:HB2	2.00	0.61
11:H4:212:LEU:C	11:H4:213:ILE:HG13	2.21	0.61
12:I3:48:TYR:CE2	12:I3:52:LEU:HG	2.36	0.61
2:II:33:ASP:OD1	2:II:34:GLY:N	2.34	0.61
2:JG:216:ASN:ND2	2:JG:275:VAL:O	2.33	0.61
2:JG:332:ILE:HA	2:JG:335:ILE:HD12	1.82	0.61
3:JH:139:LEU:HD11	3:JH:171:PRO:HD3	1.82	0.61
3:KH:226:ASN:HA	3:KH:229:VAL:HG22	1.81	0.61
3:LF:330:MET:HA	3:LF:333:VAL:HG12	1.83	0.61
3:MH:268:PRO:HD2	3:MH:301:ALA:HB2	1.83	0.61
2:OE:160:ASP:OD1	2:OE:161:TYR:N	2.33	0.61
2:OG:150:ALA:O	2:OG:154:MET:HG2	1.99	0.61
3:OH:374:ILE:HG23	3:OH:377:LEU:HD12	1.83	0.61
2:OI:213:CYS:HA	2:OI:217:LEU:HB2	1.82	0.61
19:P2:333:GLU:HG3	19:P2:353:LYS:HB3	1.80	0.61
2:PE:30:ILE:HA	2:PE:36:MET:HE1	1.82	0.61
2:QE:137:ILE:HB	2:QE:168:GLU:HA	1.81	0.61
3:QF:12:CYS:HA	25:QF:501:GTP:N2	2.16	0.61
3:QH:137:HIS:O	3:QH:168:SER:HA	2.00	0.61
2:QI:12:ALA:HB1	25:QI:501:GTP:C2	2.35	0.61
2:QI:25:CYS:HB2	2:QI:30:ILE:HB	1.81	0.61
3:RF:292:GLN:HG2	3:RF:298:ASN:ND2	2.16	0.61
3:SF:164:MET:HG3	3:SF:197:ASP:H	1.65	0.61
2:SG:54:SER:HB2	2:SG:62:VAL:HB	1.82	0.61
2:SG:81:GLY:O	2:SG:84:ARG:NH1	2.34	0.61
2:SG:312:TYR:N	2:SG:342:GLN:O	2.30	0.61
3:SJ:171:PRO:HG3	3:SJ:181:GLU:OE2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:285:THR:HB	3:TF:287:PRO:HD2	1.82	0.61
3:TH:2:ARG:HH21	3:TH:131:GLN:HA	1.65	0.61
3:UF:129:CYS:SG	3:UF:162:ARG:NH2	2.73	0.61
3:UF:271:ALA:HB1	3:UF:272:PRO:HD2	1.82	0.61
3:UH:379:LYS:O	3:UH:382:SER:OG	2.11	0.61
3:VD:12:CYS:HA	25:VD:501:GTP:N2	2.15	0.61
2:VG:363:VAL:H	2:VG:368:LEU:HD21	1.64	0.61
3:WF:246:LEU:HB2	3:WF:352:ALA:HB1	1.82	0.61
3:WH:31:ASP:OD2	3:WH:33:THR:OG1	2.17	0.61
23:XK:112:ARG:O	23:XK:112:ARG:NH1	2.32	0.61
2:AG:220:GLU:O	2:AG:221:ARG:NE	2.30	0.61
4:B3:413:ARG:HD2	6:D3:403:ARG:HD2	1.83	0.61
2:BI:12:ALA:O	2:BI:15:GLN:HB2	2.01	0.61
2:CG:101:ASN:HA	2:CG:144:GLY:HA2	1.83	0.61
3:CH:330:MET:SD	3:CH:349:VAL:HG21	2.41	0.61
2:CI:1:MET:HG2	2:CI:2:ARG:HG2	1.82	0.61
2:CI:287:SER:OG	2:CI:290:GLU:OE1	2.18	0.61
3:FF:180:VAL:HG23	3:FF:183:TYR:HD2	1.66	0.61
9:G1:92:PHE:CD1	9:G1:127:GLU:HA	2.35	0.61
2:GE:101:ASN:OD1	2:GE:144:GLY:HA2	2.01	0.61
12:I2:68:CYS:SG	3:MF:37:HIS:NE2	2.73	0.61
2:IE:8:HIS:CD2	2:IE:17:GLY:HA3	2.35	0.61
2:IE:338:LYS:NZ	2:IE:339:ARG:H	1.99	0.61
3:JD:172:SER:OG	3:JD:205:GLU:OE2	2.15	0.61
3:JH:12:CYS:HB3	25:JH:501:GTP:O4'	2.01	0.61
3:KF:91:VAL:HG11	3:KF:116:VAL:HG12	1.83	0.61
3:KF:268:PRO:HD2	3:KF:301:ALA:HB2	1.83	0.61
15:L2:146:ILE:HD11	2:MG:386:GLU:HA	1.81	0.61
15:L2:204:TRP:CD1	15:L2:237:LEU:HD22	2.35	0.61
2:LG:273:ALA:HB2	2:LG:295:CYS:HB3	1.83	0.61
3:LH:252:LYS:O	3:LH:256:ASN:ND2	2.33	0.61
2:ME:207:GLU:HB2	2:ME:304:LYS:NZ	2.15	0.61
3:MF:234:SER:O	3:MF:238:THR:HG23	2.01	0.61
2:MG:325:PRO:O	2:MG:329:ASN:ND2	2.34	0.61
3:MH:154:LYS:O	3:MH:158:GLU:HG2	2.01	0.61
2:NG:287:SER:OG	2:NG:290:GLU:OE1	2.18	0.61
2:NG:390:ARG:HA	2:NG:393:HIS:CD2	2.35	0.61
3:OH:24:ILE:HA	3:OH:27:GLU:HG2	1.82	0.61
3:PF:246:LEU:HB2	3:PF:352:ALA:HB1	1.81	0.61
3:RF:148:GLY:HA2	3:RF:151:LEU:HG	1.82	0.61
3:RH:378:PHE:CE1	3:RH:419:VAL:HG22	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:363:VAL:H	2:SI:368:LEU:HD21	1.66	0.61
2:TG:245:ASP:O	2:TG:356:ASN:ND2	2.33	0.61
3:TH:182:PRO:HB2	3:TH:388:MET:SD	2.41	0.61
2:TI:53:PHE:HA	2:TI:63:PRO:HA	1.81	0.61
2:UE:30:ILE:HD13	2:UE:36:MET:HE3	1.82	0.61
2:UE:272:TYR:CZ	2:UE:274:PRO:HG2	2.35	0.61
3:VD:12:CYS:SG	3:VD:13:GLY:N	2.74	0.61
2:WE:404:PHE:HA	2:WE:406:HIS:CE1	2.36	0.61
3:WF:148:GLY:HA2	3:WF:151:LEU:HG	1.83	0.61
2:WG:325:PRO:O	2:WG:329:ASN:ND2	2.33	0.61
2:WI:21:TRP:HA	2:WI:24:TYR:CD2	2.36	0.61
24:YK:69:PHE:HA	24:YK:72:ILE:HD12	1.83	0.61
2:AE:90:GLU:OE1	2:AE:90:GLU:N	2.32	0.61
2:AE:188:ILE:HG13	2:AE:421:ALA:HB1	1.83	0.61
2:AE:192:HIS:CE1	2:AE:193:THR:HG23	2.36	0.61
4:B3:104:GLN:HG3	6:D3:161:ARG:HH11	1.65	0.61
3:CF:273:LEU:H	3:CF:292:GLN:HE22	1.49	0.61
2:CI:88:HIS:HD2	2:DG:284:GLU:HG2	1.66	0.61
6:D9:61:TYR:O	6:D9:65:HIS:ND1	2.28	0.61
3:DD:276:ARG:HA	9:G1:285:ARG:HH21	1.65	0.61
3:DF:380:ARG:O	3:DF:384:GLN:HG2	2.00	0.61
2:DG:204:VAL:HG23	2:DG:302:MET:HG3	1.83	0.61
3:ED:240:LEU:HD22	3:ED:248:ALA:HB1	1.82	0.61
2:EE:127:ASP:OD1	2:EE:128:LEU:N	2.32	0.61
3:EF:46:ARG:HH22	2:EG:73:THR:HA	1.66	0.61
3:EF:101:TRP:CE3	3:EF:187:LEU:HD13	2.36	0.61
2:EG:32:PRO:O	2:EG:85:GLN:NE2	2.33	0.61
8:F3:170:MET:HE2	8:F3:314:SER:HB2	1.83	0.61
8:F6:110:ARG:HH21	8:F7:364:ILE:HG13	1.65	0.61
9:G2:147:LYS:HG2	9:G2:150:LYS:HD3	1.83	0.61
3:GH:33:THR:O	3:GH:58:LYS:NZ	2.34	0.61
3:GH:372:THR:HB	3:GH:375:GLN:HE22	1.66	0.61
3:JD:372:THR:HG21	3:JD:426:GLN:HB2	1.83	0.61
2:JE:160:ASP:OD1	2:JE:161:TYR:N	2.33	0.61
14:K3:403:ARG:NH2	14:K4:241:ARG:O	2.32	0.61
3:KD:234:SER:O	3:KD:238:THR:HG23	2.01	0.61
2:KE:50:ASN:O	2:KE:64:ARG:NH1	2.34	0.61
3:LD:345:ILE:HD12	3:LD:346:PRO:HD2	1.80	0.61
2:NE:427:ALA:HA	2:NE:430:LYS:HG2	1.83	0.61
3:NF:12:CYS:SG	25:NF:501:GTP:H5'	2.40	0.61
3:NF:385:PHE:HA	3:NF:388:MET:HE3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:108:TYR:O	2:OG:112:LYS:NZ	2.27	0.61
2:OI:12:ALA:HB1	25:OI:501:GTP:C4	2.36	0.61
2:PE:329:ASN:HA	2:PE:332:ILE:HG12	1.82	0.61
2:PG:390:ARG:HA	2:PG:393:HIS:CD2	2.36	0.61
3:PH:246:LEU:HD12	3:PH:352:ALA:HB1	1.81	0.61
2:QG:84:ARG:HA	2:QG:87:PHE:HB2	1.82	0.61
3:QH:56:GLY:H	24:YL:59:ASN:HB3	1.65	0.61
2:QI:144:GLY:N	25:QI:501:GTP:O2B	2.34	0.61
2:QI:206:ASN:HA	2:QI:209:ILE:HD12	1.83	0.61
2:RE:404:PHE:HA	2:RE:406:HIS:CD2	2.35	0.61
3:RF:269:GLY:HA3	3:RF:367:PHE:HB3	1.81	0.61
2:RG:220:GLU:HG2	2:RG:221:ARG:HG2	1.83	0.61
2:RI:246:GLY:HA2	2:RI:357:TYR:HD1	1.65	0.61
3:TF:197:ASP:OD1	3:TF:198:GLU:N	2.33	0.61
2:TG:127:ASP:OD1	2:TG:128:LEU:N	2.30	0.61
2:TG:315:CYS:O	2:TG:351:PHE:HA	2.01	0.61
3:TH:19:LYS:HB2	3:TH:226:ASN:ND2	2.16	0.61
2:TI:5:ILE:HB	2:TI:135:PHE:CD1	2.35	0.61
3:UF:290:THR:HG21	3:UF:329:GLN:HB3	1.83	0.61
2:UG:16:ILE:HA	2:UG:228:ASN:ND2	2.16	0.61
3:UH:3:GLU:HG2	3:UH:130:LEU:HD23	1.83	0.61
3:UH:111:GLU:N	3:UH:111:GLU:OE1	2.34	0.61
3:VF:390:ARG:HG3	3:VF:391:ARG:HG3	1.83	0.61
2:VG:76:ASP:OD1	2:VG:79:ARG:NH1	2.34	0.61
3:WH:77:ARG:O	3:WH:77:ARG:NH1	2.33	0.61
23:XK:182:ASN:O	23:XK:185:LYS:NZ	2.26	0.61
2:AG:225:THR:HB	2:AG:229:ARG:HH21	1.66	0.61
3:AH:163:ILE:HD11	3:AH:251:ARG:HG3	1.82	0.61
3:BF:328:GLU:OE1	3:BF:332:ASN:ND2	2.34	0.61
2:BG:1:MET:N	2:BG:130:THR:OG1	2.34	0.61
2:BG:220:GLU:HG2	2:BG:221:ARG:HG2	1.83	0.61
3:BH:84:ILE:O	3:BH:86:ARG:NH1	2.31	0.61
3:DD:275:SER:N	3:DD:278:SER:OG	2.29	0.61
2:DE:207:GLU:HB2	2:DE:304:LYS:HZ1	1.66	0.61
3:DF:269:GLY:HA3	3:DF:367:PHE:HD2	1.66	0.61
3:ED:280:GLN:OE1	3:ED:280:GLN:N	2.32	0.61
3:ED:324:LYS:HE2	2:EE:222:PRO:CD	2.31	0.61
2:EE:15:GLN:CB	25:EE:501:GTP:HN1	2.12	0.61
3:FD:327:ASP:HA	3:FD:330:MET:HE2	1.83	0.61
2:FG:239:THR:OG1	2:FG:243:ARG:NH1	2.33	0.61
2:FG:306:ASP:OD2	2:FG:309:HIS:ND1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:266:TYR:OH	9:G1:271:ASP:OD1	2.12	0.61
9:G2:29:GLN:NE2	9:G2:31:LEU:O	2.34	0.61
10:G5:13:ARG:HH12	10:G5:17:LYS:HB3	1.65	0.61
10:G5:603:ALA:HB1	10:G5:730:VAL:HG11	1.82	0.61
3:HH:130:LEU:O	3:HH:162:ARG:NH1	2.34	0.61
13:J2:80:LEU:H	13:J2:151:GLN:HE22	1.49	0.61
3:KD:52:ASN:OD1	3:KD:62:ARG:NH1	2.34	0.61
3:KD:172:SER:OG	3:KD:205:GLU:OE2	2.12	0.61
3:KF:410:GLU:O	3:KF:414:ASN:ND2	2.34	0.61
2:KG:326:LYS:HG3	3:KH:220:PRO:HD2	1.83	0.61
2:KG:346:TRP:CH2	3:KH:391:ARG:HB2	2.36	0.61
2:KG:390:ARG:HA	2:KG:393:HIS:CD2	2.36	0.61
3:LF:21:TRP:CZ3	3:LF:61:PRO:HB3	2.36	0.61
2:LG:325:PRO:O	2:LG:329:ASN:ND2	2.33	0.61
3:LH:376:GLU:HG2	3:LH:377:LEU:N	2.16	0.61
16:M2:66:PHE:O	16:M2:70:ASN:ND2	2.34	0.61
16:M3:67:ARG:NH1	16:M3:70:ASN:OD1	2.33	0.61
3:NH:163:ILE:HD11	3:NH:251:ARG:HB2	1.82	0.61
2:NI:91:GLN:HB3	2:NI:121:ARG:HH21	1.65	0.61
3:OD:261:PRO:O	3:OD:264:HIS:NE2	2.33	0.61
2:OE:161:TYR:O	2:OE:166:LYS:NZ	2.28	0.61
2:OG:192:HIS:HA	2:OG:195:LEU:HD23	1.82	0.61
19:P2:361:THR:OG1	19:P2:362:MET:SD	2.57	0.61
3:PF:415:MET:O	3:PF:419:VAL:HG23	2.00	0.61
2:PG:262:TYR:HE1	3:PH:393:ALA:HA	1.64	0.61
2:QI:53:PHE:HB3	2:QI:61:HIS:HB3	1.81	0.61
2:RE:10:GLY:O	2:RE:13:GLY:N	2.33	0.61
3:RF:309:ARG:NH1	3:RF:341:PHE:O	2.34	0.61
2:RG:388:TRP:HA	2:RG:391:LEU:HD12	1.83	0.61
3:RH:209:ASP:O	3:RH:213:ARG:HG2	2.00	0.61
2:SG:3:GLU:OE2	2:SG:131:GLY:N	2.27	0.61
2:SG:272:TYR:CZ	2:SG:274:PRO:HG2	2.36	0.61
3:SJ:21:TRP:CZ2	3:SJ:63:ALA:HB2	2.35	0.61
3:TF:6:HIS:HD2	3:TF:134:GLN:HG2	1.66	0.61
2:TG:228:ASN:HA	2:TG:231:ILE:HG12	1.82	0.61
3:TH:100:ASN:HB3	3:TH:103:LYS:HB2	1.82	0.61
2:TI:392:ASP:OD1	2:TI:393:HIS:N	2.34	0.61
2:VE:280:LYS:NZ	2:VE:284:GLU:OE2	2.33	0.61
2:WE:49:PHE:HB2	2:WE:53:PHE:HB2	1.83	0.61
2:WG:425:LEU:HA	2:WG:428:LEU:HD12	1.82	0.61
22:XE:39:ASP:OD1	22:XE:42:ILE:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:67:PHE:HB2	2:AE:92:LEU:HD13	1.82	0.61
3:AF:318:ARG:HD3	3:AF:358:PRO:HG3	1.82	0.61
3:AH:8:GLN:NE2	3:AH:13:GLY:O	2.34	0.61
3:AH:111:GLU:N	3:AH:111:GLU:OE1	2.34	0.61
2:BE:117:LEU:O	2:BE:121:ARG:HG2	2.01	0.61
2:BG:53:PHE:HB3	2:BG:61:HIS:HB3	1.83	0.61
5:C3:377:MET:CE	7:E2:76:TRP:HB3	2.31	0.61
2:CG:192:HIS:HA	2:CG:195:LEU:HD23	1.82	0.61
3:DF:12:CYS:HB3	25:DF:501:GTP:O4'	2.01	0.61
3:DF:92:PHE:CZ	10:G5:410:LYS:HD2	2.36	0.61
2:EE:31:GLN:HE22	2:EE:36:MET:HG3	1.65	0.61
2:EE:221:ARG:HB2	11:H3:296:TYR:HB2	1.83	0.61
8:F3:248:HIS:NE2	8:F7:199:GLU:OE2	2.34	0.61
8:F6:264:ASP:OD1	8:F6:265:GLU:N	2.34	0.61
8:F6:279:PHE:HA	8:F7:393:GLN:NE2	2.16	0.61
9:G2:169:ASN:OD1	9:G2:170:ARG:N	2.33	0.61
10:G5:627:PHE:HD1	10:G5:630:ASN:HD21	1.48	0.61
2:HE:287:SER:OG	2:HE:290:GLU:OE1	2.15	0.61
2:HE:311:LYS:HE3	2:HE:344:VAL:HG12	1.83	0.61
3:HF:310:TYR:HD1	3:HF:371:SER:HB2	1.64	0.61
2:HG:207:GLU:HB2	2:HG:304:LYS:NZ	2.16	0.61
2:HG:220:GLU:HG2	2:HG:221:ARG:HG3	1.83	0.61
2:HI:196:GLU:OE1	2:HI:196:GLU:N	2.31	0.61
2:IE:25:CYS:HB2	2:IE:30:ILE:HB	1.83	0.61
13:J3:22:SER:H	13:J3:139:ARG:HH21	1.47	0.61
3:JD:156:ARG:NH1	3:JD:195:ASN:O	2.34	0.61
3:KH:240:LEU:HD22	3:KH:248:ALA:HB1	1.81	0.61
2:LE:195:LEU:HD22	2:LE:428:LEU:HD21	1.82	0.61
3:LH:176:SER:OG	3:LH:178:THR:O	2.17	0.61
2:MI:217:LEU:HD21	2:MI:275:VAL:HG22	1.83	0.61
2:NG:32:PRO:O	2:NG:85:GLN:NE2	2.31	0.61
3:NH:378:PHE:HA	3:NH:381:ILE:HG22	1.81	0.61
3:OH:271:ALA:HB2	3:OH:365:ALA:H	1.66	0.61
2:OI:9:VAL:HG22	2:OI:146:GLY:HA2	1.81	0.61
2:OI:30:ILE:HG23	2:OI:36:MET:HE1	1.83	0.61
3:PF:269:GLY:HA3	3:PF:367:PHE:HD2	1.65	0.61
2:PG:220:GLU:O	2:PG:221:ARG:NE	2.33	0.61
2:QE:254:GLU:OE1	2:QE:254:GLU:N	2.31	0.61
2:QG:3:GLU:N	2:QG:133:GLN:OE1	2.33	0.61
2:QG:358:GLN:NE2	2:QG:359:PRO:O	2.33	0.61
2:QI:88:HIS:HB3	2:QI:91:GLN:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RG:302:MET:SD	2:RG:302:MET:N	2.63	0.61
3:RH:313:VAL:HG23	3:RH:349:VAL:HA	1.83	0.61
3:RJ:4:ILE:HD11	3:RJ:131:GLN:HB2	1.83	0.61
2:SE:217:LEU:HD13	2:SE:277:SER:HA	1.83	0.61
3:SF:2:ARG:HH12	3:SF:251:ARG:CZ	2.14	0.61
3:SF:375:GLN:HA	3:SF:378:PHE:CE1	2.36	0.61
2:SI:24:TYR:O	2:SI:28:HIS:ND1	2.33	0.61
2:SI:325:PRO:O	2:SI:329:ASN:ND2	2.34	0.61
2:TI:287:SER:OG	2:TI:290:GLU:OE1	2.18	0.61
3:UF:252:LYS:HE3	2:UG:101:ASN:HB2	1.82	0.61
3:VH:277:GLY:O	3:VH:280:GLN:NE2	2.34	0.61
2:WE:20:CYS:HB3	2:WE:24:TYR:HE1	1.66	0.61
22:XC:16:SER:OG	22:XC:163:ARG:NH1	2.34	0.61
22:XE:33:HIS:CE1	22:XE:50:GLU:HB3	2.36	0.61
2:AE:338:LYS:NZ	2:AE:340:THR:H	1.99	0.60
3:AF:83:GLN:OE1	3:AF:83:GLN:N	2.27	0.60
5:C8:472:LYS:O	5:C8:475:SER:OG	2.19	0.60
3:CF:350:LYS:HE3	2:CG:181:VAL:H	1.65	0.60
3:CH:229:VAL:O	3:CH:232:THR:OG1	2.17	0.60
3:CJ:36:TYR:CE2	3:CJ:38:GLY:HA2	2.36	0.60
6:D2:75:GLU:O	6:D2:78:ARG:HG2	2.01	0.60
3:EF:411:ALA:O	3:EF:415:MET:HG2	2.00	0.60
3:EH:132:GLY:HA2	3:EH:162:ARG:HB3	1.82	0.60
3:EH:187:LEU:HD11	3:EH:408:PHE:HE1	1.64	0.60
9:G1:474:LYS:HG2	9:G1:476:PHE:H	1.64	0.60
10:G5:195:PRO:HA	10:G5:198:LYS:HE3	1.83	0.60
10:G5:745:LEU:HD23	10:G5:750:LEU:HB3	1.83	0.60
3:HF:378:PHE:CD1	3:HF:419:VAL:HG22	2.35	0.60
3:HH:275:SER:O	3:HH:279:GLN:NE2	2.34	0.60
3:IH:405:GLU:OE1	3:IH:405:GLU:N	2.33	0.60
13:J2:51:ILE:HB	13:J2:103:LEU:HD12	1.83	0.60
2:JE:358:GLN:NE2	2:JE:359:PRO:O	2.30	0.60
2:JG:214:ARG:NH1	2:JG:215:ARG:HG3	2.15	0.60
3:JH:331:LEU:HD13	3:JH:334:GLN:HE21	1.66	0.60
3:JH:375:GLN:N	3:JH:375:GLN:OE1	2.34	0.60
3:KD:289:LEU:HD21	3:KD:363:MET:HB3	1.81	0.60
2:KE:397:LEU:C	2:KE:401:LYS:HZ2	2.04	0.60
2:LE:70:LEU:HB3	2:LE:97:GLU:O	2.01	0.60
2:LG:90:GLU:OE2	2:MG:280:LYS:NZ	2.27	0.60
2:ME:332:ILE:HA	2:ME:335:ILE:HD12	1.82	0.60
3:NH:392:LYS:HB2	3:NH:395:LEU:HD13	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NI:1:MET:N	2:NI:130:THR:OG1	2.34	0.60
3:OD:56:GLY:O	3:OD:58:LYS:NZ	2.34	0.60
2:OI:88:HIS:CE1	2:OI:121:ARG:HH22	2.19	0.60
2:OI:324:VAL:HG23	2:OI:327:ASP:H	1.66	0.60
19:P1:220:PHE:HE1	19:P1:234:PRO:HB3	1.65	0.60
19:P2:570:LYS:HG2	19:P2:582:VAL:HG22	1.83	0.60
2:PE:33:ASP:OD1	2:PE:34:GLY:N	2.34	0.60
3:PF:323:MET:SD	3:PF:323:MET:N	2.69	0.60
2:PI:388:TRP:HB3	2:PI:425:LEU:HD11	1.83	0.60
20:Q1:1427:LYS:HE2	20:Q1:1499:LYS:N	2.11	0.60
20:Q2:1436:PHE:O	20:Q2:1492:HIS:ND1	2.34	0.60
2:QE:46:ASP:HA	2:QE:50:ASN:HB3	1.83	0.60
2:QI:88:HIS:CE1	2:QI:121:ARG:HH22	2.19	0.60
2:QI:281:ALA:HB2	2:QI:369:ALA:HB1	1.83	0.60
3:RF:61:PRO:HD3	3:RF:84:ILE:HG13	1.83	0.60
3:RH:46:ARG:HH22	2:RI:73:THR:HA	1.65	0.60
3:RJ:99:ASN:HB3	3:RJ:142:GLY:HA3	1.83	0.60
3:RJ:234:SER:O	3:RJ:238:THR:HG23	2.01	0.60
3:SF:101:TRP:HB2	3:SF:184:ASN:HD22	1.66	0.60
3:SF:323:MET:N	3:SF:323:MET:SD	2.73	0.60
2:SG:12:ALA:O	25:SG:501:GTP:N1	2.34	0.60
2:SI:21:TRP:CH2	2:SI:63:PRO:HA	2.37	0.60
2:SI:352:LYS:HD3	3:SJ:178:THR:HA	1.83	0.60
3:TJ:155:ILE:HA	3:TJ:158:GLU:HB2	1.82	0.60
3:UD:190:HIS:CE1	3:UD:410:GLU:HG3	2.36	0.60
3:UF:309:ARG:H	3:UF:372:THR:HG1	1.48	0.60
3:VD:2:ARG:HH22	2:VE:97:GLU:HA	1.66	0.60
3:VD:277:GLY:O	3:VD:280:GLN:NE2	2.33	0.60
2:VG:54:SER:HB2	2:VG:62:VAL:HB	1.83	0.60
24:YN:158:LEU:HD22	24:YN:162:VAL:HG11	1.83	0.60
2:AE:119:LEU:HA	2:AE:122:ILE:HG12	1.83	0.60
2:AG:415:GLU:N	2:AG:415:GLU:OE1	2.29	0.60
4:B7:120:ARG:HH22	4:B7:386:LEU:HB3	1.66	0.60
4:B8:139:LYS:HE3	4:B8:257:GLN:HE22	1.66	0.60
2:BE:239:THR:OG1	2:BE:243:ARG:NH1	2.33	0.60
2:CI:89:PRO:HG2	2:DG:280:LYS:HD3	1.84	0.60
2:DE:43:GLY:C	10:G5:415:ARG:HH12	2.05	0.60
2:DE:268:PRO:HG3	2:DE:380:ASN:HD22	1.65	0.60
2:EE:207:GLU:HB2	2:EE:304:LYS:NZ	2.16	0.60
2:EG:395:PHE:HD2	2:EG:422:ARG:HH21	1.47	0.60
3:FD:310:TYR:HD1	3:FD:371:SER:HB2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:420:LEU:HD23	9:G1:512:VAL:HG22	1.81	0.60
9:G2:423:LEU:HB3	9:G2:506:LEU:HB2	1.83	0.60
10:G5:721:TRP:HE1	10:G5:725:PRO:HD2	1.65	0.60
2:GE:6:SER:OG	2:GE:8:HIS:NE2	2.33	0.60
11:H3:213:ILE:HD12	11:H3:216:LYS:HB3	1.83	0.60
2:HG:117:LEU:O	2:HG:121:ARG:HG2	2.01	0.60
2:IE:88:HIS:CD2	2:IE:121:ARG:HH22	2.19	0.60
3:KD:11:GLN:O	3:KD:15:GLN:NE2	2.26	0.60
2:KG:388:TRP:HB3	2:KG:425:LEU:HD11	1.82	0.60
15:L3:232:LYS:O	15:L3:235:LYS:HG3	2.01	0.60
15:L3:249:ILE:HG22	15:L3:251:TYR:N	2.11	0.60
2:LI:220:GLU:HG2	2:LI:221:ARG:HG2	1.82	0.60
3:NF:254:ALA:O	3:NF:258:VAL:HG12	2.01	0.60
3:NF:372:THR:HG21	3:NF:426:GLN:HG2	1.81	0.60
2:NG:75:VAL:HG23	2:NG:92:LEU:HD12	1.82	0.60
2:OI:54:SER:HB2	2:OI:62:VAL:HB	1.83	0.60
2:OI:255:PHE:O	2:OI:259:LEU:HB2	2.00	0.60
19:P2:120:SER:OG	19:P2:124:LEU:N	2.32	0.60
3:PF:130:LEU:O	3:PF:162:ARG:NH1	2.34	0.60
3:PF:173:PRO:O	3:PF:380:ARG:NH2	2.34	0.60
2:PG:115:VAL:HA	2:PG:118:VAL:HG22	1.83	0.60
2:PG:236:SER:O	2:PG:243:ARG:NH2	2.33	0.60
3:QF:12:CYS:HB3	25:QF:501:GTP:O4'	2.01	0.60
2:QG:25:CYS:HB2	2:QG:30:ILE:HB	1.82	0.60
2:QG:247:ALA:HB3	2:QG:355:ILE:HB	1.83	0.60
2:QG:324:VAL:HB	2:QG:326:LYS:HG2	1.83	0.60
2:QI:32:PRO:O	2:QI:85:GLN:NE2	2.34	0.60
3:RF:337:ASN:HB2	3:RF:340:TYR:HD2	1.67	0.60
2:RG:53:PHE:O	2:RG:64:ARG:NH1	2.33	0.60
2:RG:217:LEU:HD13	2:RG:277:SER:HA	1.82	0.60
2:RI:216:ASN:ND2	2:RI:275:VAL:O	2.34	0.60
3:RJ:421:GLU:HA	3:RJ:424:GLN:HE21	1.67	0.60
3:SH:4:ILE:HD11	3:SH:131:GLN:HB2	1.83	0.60
3:SJ:266:PHE:HB3	3:SJ:368:ILE:HD11	1.83	0.60
3:TJ:286:VAL:HG21	3:TJ:325:GLU:HG3	1.84	0.60
3:UF:268:PRO:HD2	3:UF:301:ALA:HB2	1.83	0.60
3:UF:286:VAL:HG21	3:UF:325:GLU:HG3	1.81	0.60
2:VE:89:PRO:HD2	2:WE:280:LYS:NZ	2.16	0.60
2:VE:377:MET:SD	2:VE:379:SER:HB3	2.41	0.60
2:VG:260:VAL:HG23	2:VG:265:ILE:O	2.01	0.60
2:VG:362:VAL:HA	2:VG:368:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:187:LEU:O	3:WF:191:GLN:NE2	2.34	0.60
2:WG:224:TYR:CE2	25:WG:501:GTP:C5	2.86	0.60
22:XC:72:LYS:NZ	23:XJ:62:ARG:HB3	2.17	0.60
2:AE:2:ARG:HA	2:AE:133:GLN:HE22	1.65	0.60
2:AE:293:ASN:O	17:N2:74:ARG:NH2	2.32	0.60
2:AG:207:GLU:HB2	2:AG:304:LYS:HZ1	1.65	0.60
3:AH:240:LEU:HD22	3:AH:248:ALA:HB1	1.82	0.60
5:C3:283:TYR:CE1	5:C4:394:LYS:HD3	2.36	0.60
6:D7:316:GLN:N	6:D7:319:GLN:OE1	2.34	0.60
3:DF:387:ALA:HA	3:DF:390:ARG:HH11	1.66	0.60
3:DH:19:LYS:O	3:DH:22:GLU:HG3	2.01	0.60
3:EH:379:LYS:O	3:EH:382:SER:OG	2.15	0.60
9:G1:99:PHE:HB2	9:G1:122:ILE:HB	1.83	0.60
3:GD:331:LEU:HD11	2:GE:176:GLN:HE22	1.67	0.60
2:GG:99:ALA:HB3	2:GG:145:THR:HG22	1.82	0.60
3:HD:149:THR:O	3:HD:191:GLN:NE2	2.34	0.60
3:HF:251:ARG:HB3	2:HG:100:ALA:HB2	1.83	0.60
2:IE:109:THR:O	2:IE:112:LYS:NZ	2.33	0.60
3:IF:378:PHE:CE1	3:IF:419:VAL:HA	2.35	0.60
2:LG:263:PRO:HB2	2:LG:264:ARG:NH1	2.16	0.60
3:LH:182:PRO:HB2	3:LH:388:MET:CE	2.31	0.60
3:MF:21:TRP:HZ3	3:MF:51:TYR:HE1	1.47	0.60
2:MI:207:GLU:HB2	2:MI:304:LYS:NZ	2.16	0.60
2:NI:208:ALA:N	2:NI:304:LYS:HZ1	1.98	0.60
3:OH:384:GLN:O	3:OH:388:MET:HG2	2.01	0.60
19:P1:330:CYS:HA	19:P1:359:TRP:HH2	1.67	0.60
3:PF:5:VAL:HG23	3:PF:130:LEU:HD21	1.84	0.60
3:QH:73:MET:HA	3:QH:76:VAL:HG22	1.83	0.60
2:QI:390:ARG:HA	2:QI:393:HIS:ND1	2.16	0.60
2:RG:101:ASN:OD1	2:RG:186:ASN:ND2	2.34	0.60
3:RH:21:TRP:HA	3:RH:24:ILE:HD12	1.82	0.60
2:SE:115:VAL:HA	2:SE:118:VAL:HG22	1.83	0.60
3:SF:272:PRO:HB3	3:SF:282:ARG:HH22	1.65	0.60
3:SF:378:PHE:CD1	3:SF:419:VAL:HG12	2.36	0.60
2:SG:325:PRO:O	2:SG:329:ASN:ND2	2.35	0.60
2:SI:3:GLU:OE2	2:SI:131:GLY:N	2.34	0.60
3:TF:134:GLN:HA	3:TF:165:ASN:O	2.02	0.60
2:TG:229:ARG:NH1	2:TG:233:GLN:HB2	2.17	0.60
3:TH:345:ILE:HD12	3:TH:346:PRO:HD2	1.83	0.60
3:UD:152:ILE:HA	3:UD:155:ILE:HG12	1.83	0.60
2:UE:127:ASP:OD1	2:UE:128:LEU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:265:ILE:HB	2:VE:432:TYR:HE1	1.66	0.60
2:WG:248:LEU:HD21	2:WG:354:GLY:HA2	1.83	0.60
23:XJ:108:GLU:OE1	23:XJ:108:GLU:N	2.34	0.60
24:YJ:47:GLU:N	24:YJ:106:GLN:OE1	2.34	0.60
24:YL:140:LEU:HA	24:YL:143:ILE:HD12	1.83	0.60
3:AH:324:LYS:HD2	2:AI:221:ARG:HA	1.84	0.60
2:AI:167:LEU:HD13	2:AI:200:CYS:HB2	1.84	0.60
2:BI:207:GLU:HB2	2:BI:304:LYS:NZ	2.17	0.60
2:CG:3:GLU:N	2:CG:133:GLN:OE1	2.33	0.60
3:CJ:214:THR:HG21	3:CJ:273:LEU:HB3	1.83	0.60
3:CJ:387:ALA:O	3:CJ:390:ARG:NH1	2.30	0.60
3:DD:375:GLN:O	3:DD:379:LYS:HB2	2.00	0.60
3:DF:216:LYS:HD2	3:DF:276:ARG:HH22	1.66	0.60
3:DF:375:GLN:HA	3:DF:378:PHE:CZ	2.36	0.60
3:EH:119:VAL:O	3:EH:122:LYS:HG2	2.01	0.60
8:F2:208:HIS:HB2	8:F3:89:ARG:NH1	2.15	0.60
3:FD:133:PHE:CZ	3:FD:155:ILE:HD12	2.36	0.60
2:FE:235:VAL:HA	2:FE:238:ILE:HG12	1.81	0.60
3:FF:330:MET:HG3	3:FF:349:VAL:HG11	1.83	0.60
9:G1:438:PHE:CE2	9:G1:451:ILE:HB	2.22	0.60
3:GH:60:VAL:HG23	3:GH:86:ARG:HH11	1.65	0.60
11:H3:16:TYR:CB	11:H3:39:THR:HG21	2.31	0.60
3:HD:30:ILE:HG13	3:HD:36:TYR:HD1	1.65	0.60
2:KE:75:VAL:HG23	2:KE:92:LEU:HD12	1.84	0.60
2:KE:273:ALA:HB2	2:KE:295:CYS:HB3	1.84	0.60
15:L3:24:HIS:HB3	2:MI:426:ALA:HB1	1.82	0.60
3:LD:330:MET:HG2	3:LD:349:VAL:HG11	1.82	0.60
2:MG:88:HIS:CE1	2:MG:121:ARG:HH22	2.19	0.60
2:NI:399:TYR:OH	2:NI:415:GLU:HB3	2.01	0.60
3:OH:8:GLN:HE21	3:OH:21:TRP:HE1	1.50	0.60
3:OH:48:ASN:O	3:OH:62:ARG:NH2	2.22	0.60
19:P1:42:PRO:HA	19:P1:47:VAL:HA	1.83	0.60
19:P2:551:MET:HA	19:P2:561:VAL:O	2.02	0.60
2:PG:401:LYS:C	2:PG:402:ARG:HD3	2.22	0.60
20:Q1:1434:PRO:HA	20:Q1:1437:TYR:HB2	1.82	0.60
2:QE:272:TYR:CZ	2:QE:274:PRO:HG2	2.37	0.60
3:QH:174:LYS:HG3	3:QH:175:VAL:HG13	1.83	0.60
2:QI:269:LEU:HD23	2:QI:303:VAL:HG21	1.83	0.60
2:RE:171:ILE:HD12	2:RE:204:VAL:HG13	1.82	0.60
3:RJ:32:PRO:O	3:RJ:83:GLN:NE2	2.32	0.60
2:SE:287:SER:OG	2:SE:290:GLU:OE1	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:31:ASP:OD2	3:SH:35:THR:OG1	2.18	0.60
3:SJ:137:HIS:O	3:SJ:168:SER:HA	2.02	0.60
3:SJ:209:ASP:O	3:SJ:213:ARG:HG2	2.01	0.60
3:TF:249:ASP:HB3	3:TF:252:LYS:HG2	1.84	0.60
2:TI:88:HIS:HE1	2:TI:90:GLU:HG2	1.67	0.60
2:TI:157:LEU:HD13	2:TI:166:LYS:HE2	1.83	0.60
3:UH:12:CYS:SG	3:UH:13:GLY:N	2.74	0.60
2:VE:54:SER:HB2	2:VE:62:VAL:HB	1.82	0.60
3:VH:113:VAL:HA	3:VH:116:VAL:HG22	1.83	0.60
3:VH:189:VAL:HA	3:VH:192:LEU:HB2	1.83	0.60
22:XC:58:TYR:HB3	22:XC:157:HIS:ND1	2.16	0.60
22:XE:81:LYS:HB2	22:XE:129:TRP:CE2	2.36	0.60
2:AG:414:GLU:N	2:AG:414:GLU:OE1	2.35	0.60
3:AH:19:LYS:NZ	3:AH:223:GLY:O	2.34	0.60
3:AH:54:ALA:HA	3:BH:283:ALA:HB2	1.84	0.60
2:BE:298:PRO:HB3	2:BE:307:PRO:HG3	1.84	0.60
3:CH:54:ALA:HA	3:DF:283:ALA:HB2	1.84	0.60
3:CH:345:ILE:HD12	3:CH:346:PRO:HD2	1.83	0.60
3:DD:54:ALA:HA	3:ED:283:ALA:HB2	1.84	0.60
3:DF:289:LEU:HD21	3:DF:363:MET:HG3	1.82	0.60
2:EG:40:LYS:HE2	9:G2:421:ARG:HH12	1.65	0.60
8:F2:209:ASP:HB2	8:F2:346:ARG:HE	1.67	0.60
3:FD:7:LEU:HD13	3:FD:64:VAL:HB	1.84	0.60
3:FF:217:LEU:O	10:G5:472:ASN:ND2	2.35	0.60
2:FG:408:TYR:HD2	2:FG:418:PHE:HZ	1.49	0.60
3:FH:217:LEU:O	3:FH:219:THR:N	2.35	0.60
2:GE:228:ASN:HA	2:GE:231:ILE:HG22	1.83	0.60
3:GH:86:ARG:HB2	3:GH:88:ASP:OD1	2.02	0.60
2:II:90:GLU:OE1	2:II:90:GLU:N	2.31	0.60
14:K2:329:SER:OG	14:K2:468:ARG:NH2	2.31	0.60
3:KD:222:TYR:HA	3:KD:225:LEU:HD13	1.84	0.60
3:KF:347:ASN:OD1	2:KG:394:LYS:NZ	2.34	0.60
2:KI:6:SER:OG	2:KI:8:HIS:NE2	2.34	0.60
15:L2:105:PHE:CZ	3:LF:424:GLN:HB3	2.36	0.60
15:L2:209:LYS:O	15:L2:212:GLN:NE2	2.34	0.60
3:LF:307:HIS:ND1	16:M2:62:GLU:OE2	2.35	0.60
2:LG:339:ARG:HH12	21:R2:281:THR:HG22	1.65	0.60
2:ME:32:PRO:HA	2:ME:86:LEU:HD11	1.84	0.60
2:MG:189:LEU:HD23	2:MG:192:HIS:NE2	2.16	0.60
18:O2:19:LEU:HD22	18:O2:21:ASN:HB2	1.83	0.60
2:OE:5:ILE:O	2:OE:135:PHE:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:117:LEU:O	2:OG:121:ARG:HG2	2.00	0.60
2:OG:175:PRO:HA	2:OG:390:ARG:CZ	2.31	0.60
2:OG:255:PHE:O	2:OG:259:LEU:HB2	2.00	0.60
19:P1:580:THR:O	19:P1:581:HIS:ND1	2.35	0.60
19:P2:78:TYR:HB3	19:P2:95:LEU:HD11	1.82	0.60
19:P2:161:ALA:HA	19:P2:178:GLY:HA3	1.83	0.60
3:PH:261:PRO:O	3:PH:264:HIS:NE2	2.34	0.60
2:PI:16:ILE:HG13	2:PI:138:PHE:HD2	1.66	0.60
2:QE:329:ASN:HA	2:QE:332:ILE:HG12	1.82	0.60
2:QG:286:LEU:O	2:QG:373:ARG:NH1	2.34	0.60
3:RJ:318:ARG:NE	3:RJ:356:ILE:O	2.23	0.60
2:SE:259:LEU:HG	2:SE:352:LYS:NZ	2.16	0.60
2:SG:316:CYS:HB3	2:SG:378:LEU:HB3	1.82	0.60
3:SJ:187:LEU:O	3:SJ:191:GLN:NE2	2.34	0.60
2:TG:117:LEU:O	2:TG:121:ARG:HG2	2.01	0.60
3:TH:324:LYS:NZ	2:TI:222:PRO:O	2.31	0.60
3:VF:293:MET:HE3	3:VF:367:PHE:HB2	1.84	0.60
2:VG:144:GLY:N	25:VG:501:GTP:O2B	2.33	0.60
3:WF:132:GLY:HA2	3:WF:162:ARG:HB3	1.83	0.60
2:WI:318:LEU:O	2:WI:320:ARG:NH1	2.34	0.60
2:AE:33:ASP:OD1	2:AE:34:GLY:N	2.34	0.60
2:AG:236:SER:O	2:AG:243:ARG:NH2	2.34	0.60
2:AG:284:GLU:OE2	2:MG:88:HIS:NE2	2.35	0.60
4:B3:78:LEU:HD13	4:B3:179:LYS:HZ2	1.66	0.60
2:BE:325:PRO:O	2:BE:329:ASN:ND2	2.34	0.60
2:BE:329:ASN:HA	2:BE:332:ILE:HG12	1.84	0.60
3:BF:322:SER:OG	3:BF:324:LYS:NZ	2.27	0.60
3:BF:405:GLU:OE1	3:BF:405:GLU:N	2.29	0.60
3:BH:117:LEU:HD21	3:BH:154:LYS:HD2	1.84	0.60
2:DG:2:ARG:HG2	2:DG:242:LEU:HD23	1.83	0.60
3:DH:152:ILE:HA	3:DH:155:ILE:HG12	1.83	0.60
7:E3:71:GLU:O	7:E3:87:TYR:OH	2.18	0.60
2:EG:55:GLU:HB2	2:EG:61:HIS:CD2	2.36	0.60
8:F2:409:ARG:NH1	8:F3:289:THR:HG22	2.16	0.60
3:GD:405:GLU:HA	3:GD:408:PHE:HD2	1.65	0.60
3:GH:84:ILE:O	3:GH:86:ARG:NH1	2.34	0.60
11:H3:13:GLU:O	11:H3:15:HIS:N	2.34	0.60
11:H4:213:ILE:O	11:H4:215:ARG:N	2.35	0.60
2:HE:144:GLY:N	25:HE:501:GTP:O2B	2.35	0.60
3:HF:152:ILE:HA	3:HF:155:ILE:HG12	1.84	0.60
2:HG:263:PRO:HD3	3:HH:396:HIS:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:18:ASN:OD1	2:HI:19:ALA:N	2.35	0.60
2:II:98:ASP:O	2:II:105:ARG:NH2	2.34	0.60
3:JH:273:LEU:H	3:JH:292:GLN:NE2	1.99	0.60
2:KI:182:VAL:O	2:KI:186:ASN:ND2	2.35	0.60
15:L2:124:ILE:O	15:L2:133:LYS:NZ	2.35	0.60
3:LD:48:ASN:O	3:LD:62:ARG:NH2	2.34	0.60
2:LI:58:ALA:HB1	2:LI:60:LYS:HE3	1.83	0.60
2:NG:16:ILE:HB	2:NG:231:ILE:HD11	1.83	0.60
2:NI:154:MET:HA	2:NI:157:LEU:HG	1.82	0.60
2:NI:235:VAL:HA	2:NI:238:ILE:HG12	1.83	0.60
2:NI:255:PHE:O	2:NI:259:LEU:HB2	2.02	0.60
2:NI:388:TRP:HB3	2:NI:425:LEU:HD11	1.84	0.60
2:OE:327:ASP:OD1	2:OE:328:VAL:N	2.34	0.60
2:OG:196:GLU:OE1	2:OG:196:GLU:N	2.26	0.60
3:OH:141:GLY:HA3	25:OH:501:GTP:H5''	1.84	0.60
3:PH:269:GLY:HA3	3:PH:367:PHE:HD2	1.65	0.60
2:QE:168:GLU:HG2	2:QE:201:ALA:HA	1.83	0.60
3:QF:250:LEU:HD13	3:QF:253:LEU:HD12	1.83	0.60
2:QG:315:CYS:O	2:QG:351:PHE:HA	2.00	0.60
2:RE:144:GLY:N	25:RE:501:GTP:O2B	2.34	0.60
3:RH:325:GLU:O	3:RH:329:GLN:HG2	2.02	0.60
2:SE:210:TYR:HD1	2:SE:222:PRO:HG3	1.66	0.60
3:SH:3:GLU:O	3:SH:131:GLN:N	2.33	0.60
3:SH:420:SER:O	3:SH:423:GLN:HG3	2.02	0.60
3:SJ:12:CYS:HA	25:SJ:501:GTP:N2	2.16	0.60
3:SJ:390:ARG:O	3:SJ:391:ARG:NE	2.26	0.60
3:TF:182:PRO:HA	3:TF:381:ILE:HD11	1.84	0.60
2:TG:32:PRO:O	2:TG:85:GLN:NE2	2.33	0.60
3:TH:258:VAL:HB	2:TI:407:TRP:HZ2	1.67	0.60
3:UD:412:GLU:OE1	3:UD:416:ASN:ND2	2.32	0.60
2:UE:211:ASP:HB2	2:UE:215:ARG:HH21	1.66	0.60
2:UE:427:ALA:HA	2:UE:430:LYS:HG2	1.83	0.60
3:UF:47:ILE:HG13	3:UF:51:TYR:HB2	1.83	0.60
3:UF:412:GLU:HA	3:UF:415:MET:HE2	1.84	0.60
2:VE:236:SER:O	2:VE:243:ARG:NH2	2.34	0.60
3:VF:246:LEU:HB2	3:VF:352:ALA:HB1	1.84	0.60
3:VF:415:MET:O	3:VF:419:VAL:HG23	2.01	0.60
3:VH:415:MET:O	3:VH:419:VAL:HG23	2.01	0.60
3:WF:405:GLU:HA	3:WF:408:PHE:HD2	1.66	0.60
2:WG:99:ALA:HB3	2:WG:145:THR:HA	1.83	0.60
22:XD:68:THR:HA	22:XD:152:LEU:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:161:TYR:HB3	2:AI:164:LYS:HZ3	1.67	0.60
5:C8:339:GLN:HA	5:C8:342:LYS:HE3	1.83	0.60
3:CF:334:GLN:O	3:CF:338:SER:OG	2.14	0.60
6:D8:307:ARG:NH1	6:D8:310:GLU:OE1	2.35	0.60
2:DE:214:ARG:NH1	2:DE:215:ARG:HG3	2.17	0.60
3:DF:330:MET:HG3	3:DF:349:VAL:HG11	1.84	0.60
2:DG:235:VAL:HA	2:DG:238:ILE:HG12	1.84	0.60
8:F6:136:GLU:HG3	8:F6:140:ARG:HH21	1.66	0.60
3:FF:152:ILE:HA	3:FF:155:ILE:HG12	1.82	0.60
10:G5:566:PHE:CE1	10:G5:585:ILE:HD12	2.36	0.60
3:GD:334:GLN:O	3:GD:338:SER:OG	2.10	0.60
2:IE:269:LEU:HD13	2:IE:381:THR:HG22	1.84	0.60
2:II:207:GLU:HB2	2:II:304:LYS:HZ1	1.66	0.60
3:JD:309:ARG:NH1	3:JD:341:PHE:O	2.35	0.60
3:JH:261:PRO:O	3:JH:264:HIS:NE2	2.34	0.60
2:MI:99:ALA:H	2:MI:145:THR:HG22	1.67	0.60
2:NG:117:LEU:O	2:NG:121:ARG:HG2	2.01	0.60
3:OF:72:THR:O	3:OF:75:SER:OG	2.18	0.60
2:OG:184:PRO:HB2	2:OG:395:PHE:HD1	1.67	0.60
3:PF:84:ILE:O	3:PF:86:ARG:NH1	2.34	0.60
2:PG:76:ASP:OD1	2:PG:79:ARG:NH1	2.34	0.60
3:QH:155:ILE:HA	3:QH:158:GLU:HG3	1.83	0.60
2:RE:224:TYR:HA	2:RE:227:LEU:HB2	1.82	0.60
3:RJ:186:THR:HB	3:RJ:385:PHE:CZ	2.37	0.60
2:SE:312:TYR:N	2:SE:342:GLN:O	2.29	0.60
2:SG:320:ARG:HH21	2:SG:358:GLN:HE21	1.48	0.60
3:TH:12:CYS:HA	25:TH:501:GTP:HN22	1.66	0.60
2:VE:81:GLY:O	2:VE:84:ARG:NH1	2.35	0.60
2:WG:50:ASN:O	2:WG:64:ARG:NH1	2.34	0.60
23:XJ:158:HIS:O	23:XJ:162:SER:OG	2.16	0.60
2:BE:54:SER:OG	2:BE:64:ARG:NE	2.35	0.60
3:BF:350:LYS:HE3	2:BG:181:VAL:H	1.66	0.60
2:BG:211:ASP:HB2	2:BG:215:ARG:HH21	1.65	0.60
3:BH:42:LEU:HD21	11:H4:6:LYS:HZ2	1.66	0.60
3:BH:234:SER:O	3:BH:238:THR:HG23	2.02	0.60
3:BH:318:ARG:NE	3:BH:356:ILE:O	2.19	0.60
3:CH:380:ARG:O	3:CH:384:GLN:HG2	2.01	0.60
2:CI:9:VAL:HA	2:CI:68:VAL:HG22	1.84	0.60
3:DD:415:MET:O	3:DD:419:VAL:HG23	2.01	0.60
3:DF:3:GLU:HG2	3:DF:130:LEU:HD23	1.84	0.60
3:DF:247:ASN:HD21	2:DG:11:GLN:HE21	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:31:ASP:OD2	3:DH:33:THR:OG1	2.20	0.60
3:EF:234:SER:O	3:EF:238:THR:HG23	2.02	0.60
3:FH:2:ARG:HB3	3:FH:131:GLN:NE2	2.16	0.60
9:G2:353:GLN:HA	9:G2:356:LYS:HD3	1.83	0.60
3:GD:95:SER:OG	3:GD:96:GLY:N	2.35	0.60
11:H4:16:TYR:O	11:H4:17:ILE:C	2.39	0.60
2:IE:273:ALA:HB2	2:IE:295:CYS:HB3	1.84	0.60
2:IG:127:ASP:OD1	2:IG:128:LEU:N	2.35	0.60
3:IH:141:GLY:HA3	25:IH:501:GTP:H5''	1.84	0.60
3:IH:212:PHE:HE2	3:IH:213:ARG:HH21	1.48	0.60
3:JH:4:ILE:HD11	3:JH:131:GLN:HB2	1.84	0.60
3:JH:426:GLN:NE2	3:JH:427:ASP:OD1	2.34	0.60
15:L2:26:ARG:NH2	2:ME:389:ALA:HB1	2.16	0.60
2:LE:11:GLN:HG3	25:LE:501:GTP:PB	2.42	0.60
3:LF:11:GLN:O	3:LF:15:GLN:NE2	2.35	0.60
2:LI:12:ALA:O	25:LI:501:GTP:N1	2.35	0.60
2:LI:30:ILE:HD13	2:LI:36:MET:HE3	1.82	0.60
2:ME:85:GLN:OE1	2:ME:85:GLN:N	2.28	0.60
2:MG:308:ARG:NH2	18:O2:106:CYS:SG	2.75	0.60
17:N2:149:HIS:CD2	17:N2:156:GLY:H	2.19	0.60
3:NF:286:VAL:HA	3:NF:289:LEU:HD22	1.82	0.60
2:NG:260:VAL:HG13	3:NH:397:TRP:HZ2	1.67	0.60
2:OI:178:SER:OG	2:OI:180:ALA:O	2.20	0.60
2:OI:220:GLU:O	2:OI:221:ARG:NE	2.34	0.60
2:OI:390:ARG:HA	2:OI:393:HIS:CD2	2.37	0.60
19:P1:288:GLN:NE2	19:P1:289:LEU:O	2.30	0.60
2:PE:32:PRO:O	2:PE:85:GLN:NE2	2.35	0.60
2:PI:256:GLN:O	2:PI:260:VAL:HG12	2.01	0.60
2:QE:28:HIS:HB2	2:QE:30:ILE:HD11	1.84	0.60
2:QI:251:ASP:OD1	2:QI:252:LEU:N	2.34	0.60
3:RJ:309:ARG:NH2	3:RJ:426:GLN:O	2.34	0.60
2:SE:246:GLY:HA3	2:SE:356:ASN:HA	1.84	0.60
3:UD:28:HIS:HD1	3:UD:43:GLN:HB2	1.66	0.60
2:UG:172:TYR:CD1	2:UG:203:MET:HE2	2.33	0.60
2:UG:396:ASP:OD1	2:UG:397:LEU:N	2.33	0.60
3:UH:183:TYR:HA	3:UH:186:THR:HG22	1.82	0.60
3:VD:260:PHE:HB3	3:VD:262:ARG:NH1	2.17	0.60
3:VF:60:VAL:HG23	3:VF:86:ARG:HH11	1.67	0.60
2:WG:120:ASP:HB3	22:XD:6:PHE:CE2	2.36	0.60
3:WH:139:LEU:N	3:WH:168:SER:OG	2.34	0.60
22:XD:104:ARG:HE	22:XD:106:SER:HG	1.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YM:32:CYS:HA	24:YM:56:TYR:CE2	2.36	0.60
2:AG:167:LEU:HB3	2:AG:169:PHE:CZ	2.36	0.60
4:B2:255:ASP:HB3	4:B2:258:ARG:HH21	1.66	0.60
3:BF:234:SER:O	3:BF:238:THR:HG23	2.02	0.60
3:BF:415:MET:O	3:BF:419:VAL:HG23	2.02	0.60
3:BH:172:SER:OG	3:BH:205:GLU:OE2	2.15	0.60
2:BI:87:PHE:HD2	2:BI:92:LEU:HD21	1.67	0.60
2:CG:332:ILE:HG13	2:CG:336:LYS:HE3	1.83	0.60
6:D9:72:ASP:O	6:D9:75:GLU:HG3	2.02	0.60
3:DH:141:GLY:HA3	25:DH:501:GTP:H5''	1.83	0.60
3:DH:234:SER:O	3:DH:238:THR:HG23	2.02	0.60
8:F3:96:ASP:OD1	8:F3:97:ARG:N	2.34	0.60
2:FE:310:GLY:HA3	2:FE:383:ALA:HB2	1.84	0.60
2:GE:187:SER:O	2:GE:190:THR:OG1	2.17	0.60
3:GH:11:GLN:HE21	25:GH:501:GTP:H3'	1.67	0.60
3:HF:58:LYS:HE2	3:IF:281:TYR:HE1	1.66	0.60
2:HI:12:ALA:O	25:HI:501:GTP:N1	2.35	0.60
2:JE:151:SER:O	2:JE:155:GLU:HG2	2.01	0.60
2:JE:245:ASP:O	2:JE:356:ASN:ND2	2.35	0.60
2:JG:220:GLU:HG2	2:JG:221:ARG:HG2	1.83	0.60
14:K2:327:GLU:OE1	14:K2:327:GLU:N	2.31	0.60
14:K2:382:LEU:HD22	2:LE:339:ARG:HB3	1.82	0.60
2:KE:132:LEU:HD13	2:KE:164:LYS:HE3	1.82	0.60
15:L3:188:LEU:HG	15:L3:193:ARG:NH2	2.16	0.60
2:LG:117:LEU:O	2:LG:121:ARG:HG2	2.02	0.60
3:LH:275:SER:N	3:LH:278:SER:OG	2.35	0.60
2:LI:117:LEU:O	2:LI:121:ARG:HG2	2.01	0.60
2:NI:390:ARG:HA	2:NI:393:HIS:CD2	2.37	0.60
3:OF:83:GLN:O	3:OF:86:ARG:NH2	2.23	0.60
3:OH:258:VAL:HG23	3:OH:263:LEU:HB2	1.83	0.60
2:PG:54:SER:H	2:PG:62:VAL:H	1.49	0.60
3:PH:199:THR:HB	3:PH:264:HIS:O	2.01	0.60
2:PI:325:PRO:O	2:PI:329:ASN:ND2	2.35	0.60
3:QF:11:GLN:HA	3:QF:14:ASN:ND2	2.16	0.60
3:QH:261:PRO:HD3	2:QI:406:HIS:CD2	2.37	0.60
2:RE:167:LEU:HG	2:RE:252:LEU:HD23	1.84	0.60
2:SI:271:THR:HB	2:SI:377:MET:HB2	1.82	0.60
3:SJ:269:GLY:N	3:SJ:367:PHE:O	2.35	0.60
2:TG:16:ILE:HB	2:TG:231:ILE:HD11	1.84	0.60
3:TH:134:GLN:HA	3:TH:165:ASN:HB3	1.84	0.60
3:UD:134:GLN:HA	3:UD:165:ASN:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:176:SER:O	3:UD:178:THR:N	2.34	0.60
3:UF:230:SER:HA	3:UF:233:MET:SD	2.40	0.60
3:UF:249:ASP:HB3	3:UF:252:LYS:HG2	1.83	0.60
2:UG:169:PHE:HA	2:UG:202:PHE:O	2.01	0.60
2:VE:308:ARG:NH2	2:VE:340:THR:O	2.35	0.60
3:VF:316:VAL:HG22	3:VF:352:ALA:HB3	1.83	0.60
3:WF:240:LEU:HD22	3:WF:248:ALA:HB1	1.82	0.60
3:WF:385:PHE:HZ	3:WF:408:PHE:HB3	1.66	0.60
22:XE:58:TYR:HB3	22:XE:157:HIS:CE1	2.36	0.60
24:YN:15:TYR:HA	24:YN:18:PHE:CD2	2.37	0.60
2:AE:296:PHE:HE2	2:AE:335:ILE:HG21	1.66	0.60
3:AH:198:GLU:HA	3:AH:266:PHE:HE2	1.67	0.60
4:B3:410:THR:O	5:C7:239:LYS:NZ	2.34	0.60
2:BE:390:ARG:HA	2:BE:393:HIS:CD2	2.36	0.60
3:BF:324:LYS:HE2	2:BG:222:PRO:HD2	1.82	0.60
2:BI:211:ASP:HB2	2:BI:215:ARG:HH21	1.66	0.60
3:DH:27:GLU:OE1	3:DH:28:HIS:ND1	2.35	0.60
9:G1:194:LEU:HD11	9:G1:199:ILE:HD12	1.84	0.60
3:GD:252:LYS:O	3:GD:256:ASN:ND2	2.35	0.60
2:GG:15:GLN:HB3	2:GG:228:ASN:ND2	2.16	0.60
2:GG:261:PRO:HB3	2:GG:346:TRP:HH2	1.67	0.60
2:GG:273:ALA:HB2	2:GG:295:CYS:HB3	1.82	0.60
11:H3:303:SER:HA	11:H3:306:ARG:HE	1.67	0.60
2:HG:108:TYR:O	2:HG:112:LYS:NZ	2.29	0.60
3:IF:306:ARG:NH2	3:IF:340:TYR:OH	2.34	0.60
3:IH:8:GLN:HG2	3:IH:65:LEU:HA	1.83	0.60
2:KE:113:GLU:N	2:KE:113:GLU:OE1	2.34	0.60
3:KH:77:ARG:NH1	3:KH:77:ARG:O	2.33	0.60
3:LD:139:LEU:HD21	3:LD:170:VAL:HG22	1.83	0.60
2:LG:392:ASP:OD1	2:LG:393:HIS:N	2.35	0.60
2:ME:399:TYR:O	2:ME:402:ARG:HG3	2.02	0.60
2:MG:192:HIS:CD2	2:MG:421:ALA:HB2	2.36	0.60
18:O1:97:HIS:O	18:O1:98:LYS:HG2	2.01	0.60
3:OD:139:LEU:HD21	3:OD:170:VAL:HG22	1.84	0.60
2:OE:213:CYS:O	2:OE:218:ASP:N	2.35	0.60
2:OG:301:GLN:N	2:OG:301:GLN:OE1	2.35	0.60
19:P1:60:LEU:HD12	19:P1:96:TRP:CZ3	2.37	0.60
19:P2:410:TYR:HE2	19:P2:412:ILE:HG13	1.66	0.60
2:PE:228:ASN:HA	2:PE:231:ILE:HG12	1.83	0.60
2:PE:285:GLN:HE22	2:PE:287:SER:HB3	1.67	0.60
3:PF:152:ILE:HA	3:PF:155:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:375:GLN:HA	3:PF:378:PHE:CZ	2.37	0.60
2:PG:397:LEU:O	2:PG:401:LYS:HG2	2.01	0.60
3:PH:270:PHE:HD2	3:PH:273:LEU:HD21	1.67	0.60
2:RE:67:PHE:HB2	2:RE:92:LEU:HD13	1.84	0.60
3:RF:269:GLY:O	3:RF:367:PHE:N	2.32	0.60
2:SE:67:PHE:HB2	2:SE:92:LEU:HD13	1.84	0.60
2:SE:321:GLY:HA3	2:SE:372:GLN:O	2.02	0.60
2:SE:390:ARG:HA	2:SE:393:HIS:CD2	2.36	0.60
3:SF:266:PHE:HD1	3:SF:370:ASN:HD21	1.49	0.60
3:SF:299:MET:SD	3:SF:301:ALA:N	2.75	0.60
2:SI:115:VAL:HA	2:SI:118:VAL:HG12	1.83	0.60
3:TF:375:GLN:HA	3:TF:378:PHE:CZ	2.37	0.60
3:UH:172:SER:HB2	3:UH:204:ASN:HD21	1.67	0.60
2:VG:53:PHE:HE1	2:VG:63:PRO:HG3	1.67	0.60
3:VH:48:ASN:O	3:VH:62:ARG:NH2	2.27	0.60
2:WE:22:GLU:HG2	2:WE:83:TYR:CE2	2.36	0.60
2:WE:280:LYS:O	2:WE:284:GLU:HB2	2.02	0.60
23:XL:141:LEU:HD11	23:XL:177:ILE:HG23	1.84	0.60
24:YJ:15:TYR:HA	24:YJ:18:PHE:HB3	1.83	0.60
2:AG:208:ALA:N	2:AG:304:LYS:HZ1	1.99	0.59
3:AH:273:LEU:O	3:AH:282:ARG:NH1	2.27	0.59
3:BH:278:SER:O	3:BH:282:ARG:HB2	2.02	0.59
2:CI:271:THR:OG1	2:CI:301:GLN:NE2	2.35	0.59
3:CJ:197:ASP:OD1	3:CJ:198:GLU:N	2.35	0.59
3:DD:5:VAL:HG23	3:DD:130:LEU:HD21	1.84	0.59
3:DF:311:LEU:HD12	3:DF:342:VAL:HG21	1.84	0.59
3:DH:380:ARG:O	3:DH:384:GLN:HG2	2.02	0.59
7:E2:137:MET:HB3	7:E2:139:TRP:HE1	1.67	0.59
2:FE:117:LEU:O	2:FE:121:ARG:HG2	2.02	0.59
9:G1:137:VAL:HG22	9:G1:145:GLN:HB3	1.84	0.59
9:G2:303:GLU:OE1	9:G2:303:GLU:N	2.29	0.59
3:GF:309:ARG:O	3:GF:371:SER:OG	2.17	0.59
3:GH:268:PRO:HD2	3:GH:301:ALA:HB2	1.84	0.59
3:GH:426:GLN:NE2	3:GH:427:ASP:OD1	2.34	0.59
2:GI:265:ILE:HD13	2:GI:432:TYR:CE1	2.37	0.59
3:IH:131:GLN:HB3	3:IH:163:ILE:HD12	1.84	0.59
3:JD:28:HIS:ND1	3:JD:43:GLN:HB2	2.17	0.59
2:JG:220:GLU:O	2:JG:221:ARG:NE	2.27	0.59
2:KE:236:SER:O	2:KE:243:ARG:NH2	2.35	0.59
3:KF:84:ILE:O	3:KF:86:ARG:NH1	2.35	0.59
3:KF:152:ILE:HA	3:KF:155:ILE:HG12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:139:LEU:HD11	3:KH:171:PRO:HD3	1.82	0.59
2:LE:58:ALA:HB1	2:LE:60:LYS:HE3	1.83	0.59
3:LF:193:VAL:HG11	3:LF:418:LEU:HD11	1.84	0.59
2:ME:171:ILE:HD11	2:ME:206:ASN:N	2.17	0.59
3:MF:198:GLU:HG2	3:MF:266:PHE:CE2	2.37	0.59
2:NE:81:GLY:O	2:NE:84:ARG:NH1	2.35	0.59
3:NF:269:GLY:N	3:NF:367:PHE:O	2.34	0.59
2:NG:115:VAL:HA	2:NG:118:VAL:HG22	1.84	0.59
3:NH:32:PRO:O	3:NH:83:GLN:NE2	2.19	0.59
2:OE:10:GLY:O	2:OE:13:GLY:N	2.31	0.59
2:OI:176:GLN:NE2	2:OI:207:GLU:OE2	2.35	0.59
2:OI:220:GLU:HG2	2:OI:221:ARG:HG2	1.83	0.59
2:OI:318:LEU:O	2:OI:375:VAL:HA	2.02	0.59
19:P2:33:HIS:NE2	19:P2:76:GLY:O	2.30	0.59
2:PG:287:SER:OG	2:PG:290:GLU:OE1	2.19	0.59
3:PH:385:PHE:HZ	3:PH:408:PHE:HB3	1.68	0.59
2:PI:224:TYR:HE2	25:PI:501:GTP:O6	1.85	0.59
3:QF:141:GLY:HA3	25:QF:501:GTP:H5''	1.83	0.59
3:RJ:101:TRP:HB2	3:RJ:184:ASN:HD22	1.67	0.59
2:SG:50:ASN:O	2:SG:64:ARG:NH1	2.35	0.59
2:SG:178:SER:OG	2:SG:180:ALA:O	2.20	0.59
2:SI:269:LEU:HB2	2:SI:379:SER:O	2.01	0.59
2:SI:427:ALA:HA	2:SI:430:LYS:HG2	1.82	0.59
3:SJ:6:HIS:HE1	3:SJ:136:THR:HG23	1.66	0.59
3:TH:269:GLY:HA3	3:TH:367:PHE:HB3	1.84	0.59
3:UD:19:LYS:HZ3	3:UD:227:HIS:HB2	1.66	0.59
3:VF:132:GLY:HA3	3:VF:163:ILE:H	1.67	0.59
3:VH:330:MET:HG2	3:VH:349:VAL:HG11	1.83	0.59
3:WH:2:ARG:NH2	2:WI:97:GLU:OE2	2.35	0.59
22:XD:39:ASP:OD2	22:XD:41:ASP:N	2.35	0.59
24:YI:96:LEU:HA	24:YI:99:LYS:HE3	1.84	0.59
24:YM:161:LYS:HG3	24:YM:162:VAL:HG23	1.83	0.59
2:AG:256:GLN:O	2:AG:260:VAL:HG12	2.02	0.59
3:AH:170:VAL:N	3:AH:202:ILE:O	2.32	0.59
3:AH:358:PRO:HB2	3:AH:361:LEU:HD21	1.83	0.59
2:AI:278:ALA:O	2:AI:282:TYR:HB2	2.02	0.59
2:AI:325:PRO:O	2:AI:329:ASN:ND2	2.35	0.59
3:BH:359:ARG:HH12	11:H4:4:THR:HB	1.67	0.59
2:BI:15:GLN:HG3	25:BI:501:GTP:C6	2.37	0.59
5:C7:321:LEU:O	5:C7:324:GLU:HG3	2.02	0.59
6:D7:368:LEU:HG	6:D8:249:GLU:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:308:ARG:HH22	2:DE:341:ILE:HD12	1.67	0.59
3:DF:252:LYS:HE3	2:DG:101:ASN:OD1	2.01	0.59
2:EG:220:GLU:O	2:EG:221:ARG:NE	2.34	0.59
8:F2:263:ILE:HA	8:F2:266:ASN:HD21	1.67	0.59
8:F7:180:ALA:O	8:F7:184:VAL:HG23	2.02	0.59
9:G2:516:MET:O	9:G2:520:ALA:CA	2.49	0.59
3:GD:246:LEU:HB2	3:GD:352:ALA:HB1	1.83	0.59
2:GE:260:VAL:HG13	3:GF:397:TRP:CH2	2.36	0.59
2:HG:172:TYR:HD1	2:HG:203:MET:HG3	1.66	0.59
2:IE:139:HIS:CE1	2:IE:168:GLU:HB3	2.36	0.59
3:IH:77:ARG:NH1	3:IH:77:ARG:O	2.31	0.59
2:JE:296:PHE:CE2	2:JE:335:ILE:HG21	2.37	0.59
14:K3:189:GLU:HG2	14:K3:190:LYS:H	1.67	0.59
14:K4:151:LEU:HD22	14:K4:227:LEU:HD12	1.85	0.59
3:KH:111:GLU:OE1	3:KH:111:GLU:N	2.35	0.59
15:L2:187:ARG:NE	15:L2:188:LEU:O	2.35	0.59
2:LE:330:ALA:O	2:LE:334:THR:HG23	2.02	0.59
3:MF:212:PHE:HE1	3:MF:218:THR:HA	1.67	0.59
3:MH:137:HIS:ND1	3:MH:138:SER:O	2.34	0.59
3:ND:304:ASP:O	3:ND:307:HIS:ND1	2.32	0.59
2:NE:196:GLU:OE1	2:NE:196:GLU:N	2.31	0.59
2:NG:85:GLN:OE1	2:NG:85:GLN:N	2.31	0.59
2:NG:324:VAL:HG11	3:NH:219:THR:HB	1.84	0.59
2:NI:160:ASP:OD1	2:NI:161:TYR:N	2.35	0.59
19:P2:65:ASN:N	19:P2:83:GLN:OE1	2.34	0.59
3:PF:13:GLY:HA2	3:PF:16:ILE:HB	1.84	0.59
2:PG:306:ASP:OD2	2:PG:309:HIS:N	2.34	0.59
2:PI:53:PHE:O	2:PI:64:ARG:NH1	2.34	0.59
2:QG:196:GLU:OE1	2:QG:196:GLU:N	2.30	0.59
3:QH:187:LEU:O	3:QH:191:GLN:NE2	2.34	0.59
2:RG:332:ILE:HA	2:RG:335:ILE:HG22	1.84	0.59
3:RJ:100:ASN:HB3	3:RJ:103:LYS:HB2	1.83	0.59
3:SH:138:SER:HB2	3:SH:169:VAL:HG12	1.83	0.59
3:SH:229:VAL:O	3:SH:232:THR:OG1	2.13	0.59
2:TG:31:GLN:HE22	2:TG:37:PRO:HD3	1.66	0.59
2:TG:101:ASN:HA	2:TG:144:GLY:HA2	1.84	0.59
2:TG:137:ILE:HB	2:TG:168:GLU:HA	1.84	0.59
3:TH:19:LYS:HA	3:TH:22:GLU:HG3	1.84	0.59
3:TH:169:VAL:HA	3:TH:202:ILE:HB	1.82	0.59
2:UE:325:PRO:O	2:UE:329:ASN:ND2	2.34	0.59
2:UE:384:ILE:HB	2:UE:388:TRP:HZ3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:115:VAL:HA	2:UG:118:VAL:HG22	1.84	0.59
3:UH:211:CYS:HA	3:UH:215:LEU:HB2	1.84	0.59
2:VG:205:ASP:OD2	2:VG:304:LYS:NZ	2.27	0.59
3:WH:197:ASP:OD1	3:WH:198:GLU:N	2.35	0.59
4:B2:333:GLN:N	4:B2:333:GLN:OE1	2.36	0.59
4:B3:10:GLU:OE2	4:B3:12:TYR:HB3	2.01	0.59
3:BF:193:VAL:HG21	3:BF:418:LEU:HD11	1.84	0.59
5:C3:261:LYS:NZ	5:C3:300:TRP:HZ2	2.01	0.59
3:CH:376:GLU:OE1	3:CH:376:GLU:N	2.35	0.59
3:CJ:345:ILE:HD12	3:CJ:346:PRO:HD2	1.84	0.59
6:D7:368:LEU:HD21	6:D8:250:SER:HA	1.84	0.59
3:DD:378:PHE:HA	3:DD:381:ILE:HG12	1.84	0.59
3:DH:286:VAL:HG21	3:DH:325:GLU:HG3	1.84	0.59
3:FH:11:GLN:NE2	25:FH:501:GTP:O4'	2.36	0.59
10:G5:635:PHE:HD2	10:G5:698:ASN:HA	1.67	0.59
3:GD:173:PRO:O	3:GD:380:ARG:NH2	2.35	0.59
3:GF:270:PHE:O	3:GF:298:ASN:ND2	2.35	0.59
3:GH:282:ARG:NH2	3:GH:292:GLN:OE1	2.27	0.59
3:GH:406:MET:O	3:GH:409:THR:OG1	2.16	0.59
3:IF:375:GLN:HA	3:IF:378:PHE:CZ	2.36	0.59
14:K2:387:LEU:HD22	14:K2:392:LYS:HA	1.84	0.59
14:K3:424:ARG:O	14:K3:428:HIS:ND1	2.35	0.59
3:KD:35:THR:HG22	3:KD:58:LYS:HD2	1.84	0.59
2:KG:264:ARG:O	2:KG:266:HIS:ND1	2.32	0.59
2:ME:6:SER:OG	2:ME:8:HIS:NE2	2.35	0.59
2:MG:15:GLN:HG3	25:MG:501:GTP:C6	2.30	0.59
2:MG:220:GLU:HG2	2:MG:221:ARG:HG2	1.83	0.59
3:MH:302:ALA:HB1	3:MH:377:LEU:HD21	1.84	0.59
3:ND:152:ILE:HA	3:ND:155:ILE:HG12	1.84	0.59
3:OH:191:GLN:O	3:OH:195:ASN:ND2	2.34	0.59
19:P2:206:ARG:NH2	3:WH:78:SER:O	2.33	0.59
2:PE:13:GLY:HA2	2:PE:16:ILE:HG12	1.83	0.59
3:PH:81:PHE:O	3:PH:84:ILE:HG22	2.02	0.59
3:PH:347:ASN:O	3:PH:350:LYS:NZ	2.34	0.59
2:PI:185:TYR:HA	2:PI:395:PHE:HE2	1.66	0.59
20:Q2:1486:SER:N	20:Q2:1489:GLU:OE1	2.34	0.59
2:RG:349:THR:HG23	3:RH:179:VAL:HG12	1.84	0.59
3:RH:378:PHE:CD1	3:RH:419:VAL:HG22	2.37	0.59
2:SE:54:SER:HB2	2:SE:62:VAL:HB	1.84	0.59
2:SE:107:HIS:HA	2:SE:152:LEU:HD23	1.84	0.59
3:TH:372:THR:HG21	3:TH:426:GLN:HB2	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:22:GLU:HG2	2:UG:83:TYR:CE2	2.35	0.59
2:VE:190:THR:O	2:VE:194:THR:OG1	2.14	0.59
2:VE:216:ASN:ND2	2:VE:275:VAL:HG23	2.16	0.59
3:VF:278:SER:HA	3:VF:281:TYR:HB2	1.84	0.59
2:WG:419:SER:O	2:WG:422:ARG:HG2	2.01	0.59
3:WH:316:VAL:HG22	3:WH:352:ALA:HB3	1.84	0.59
2:WI:414:GLU:HG2	2:WI:416:GLY:H	1.67	0.59
3:AF:2:ARG:NH2	2:AG:97:GLU:OE2	2.36	0.59
3:AH:309:ARG:NH1	3:AH:341:PHE:O	2.36	0.59
5:C7:157:LYS:HA	5:C7:261:LYS:HE2	1.84	0.59
5:C7:284:PHE:CE1	5:C8:401:ASP:HB2	2.37	0.59
2:CG:79:ARG:HE	11:H3:218:ILE:HD12	1.68	0.59
3:CJ:322:SER:N	3:CJ:325:GLU:OE2	2.35	0.59
2:DE:28:HIS:NE2	2:DE:48:SER:OG	2.35	0.59
2:DG:239:THR:OG1	2:DG:243:ARG:NH1	2.26	0.59
3:DH:101:TRP:HB2	3:DH:184:ASN:HD22	1.66	0.59
2:EG:229:ARG:NH1	2:EG:233:GLN:HB3	2.17	0.59
2:EG:272:TYR:HD2	2:EG:275:VAL:HG13	1.66	0.59
3:EH:40:SER:HB2	3:EH:43:GLN:HG2	1.83	0.59
8:F6:469:CYS:HB3	8:F6:473:ARG:HH21	1.65	0.59
2:FE:88:HIS:CE1	2:GE:280:LYS:HZ1	2.20	0.59
10:G5:33:ARG:NH1	3:MH:92:PHE:O	2.34	0.59
2:GG:172:TYR:CD1	2:GG:173:PRO:HD2	2.37	0.59
3:HD:234:SER:O	3:HD:238:THR:HG23	2.01	0.59
2:HE:207:GLU:HB2	2:HE:304:LYS:NZ	2.17	0.59
2:HG:101:ASN:HA	2:HG:144:GLY:CA	2.32	0.59
3:HH:172:SER:OG	3:HH:205:GLU:OE2	2.19	0.59
2:IE:127:ASP:OD1	2:IE:128:LEU:N	2.35	0.59
2:IE:326:LYS:HD3	3:IF:212:PHE:CE1	2.36	0.59
3:IH:21:TRP:HZ2	3:IH:63:ALA:HB2	1.67	0.59
2:JE:127:ASP:OD1	2:JE:128:LEU:N	2.35	0.59
3:JF:19:LYS:NZ	3:JF:223:GLY:O	2.35	0.59
14:K3:168:VAL:HG11	14:K3:209:MET:SD	2.43	0.59
3:KF:234:SER:O	3:KF:238:THR:HG23	2.03	0.59
3:LF:325:GLU:HB3	2:LG:221:ARG:HH11	1.67	0.59
2:LI:33:ASP:OD1	2:LI:34:GLY:N	2.36	0.59
2:NE:220:GLU:O	2:NE:221:ARG:NE	2.36	0.59
3:NF:100:ASN:OD1	3:NF:103:LYS:N	2.27	0.59
2:OE:1:MET:N	2:OE:130:THR:OG1	2.36	0.59
2:OI:33:ASP:OD1	2:OI:34:GLY:N	2.36	0.59
19:P1:28:ASN:O	19:P1:31:LYS:NZ	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:33:ASP:OD1	2:QG:34:GLY:N	2.35	0.59
3:RF:409:THR:O	3:RF:412:GLU:HG3	2.03	0.59
2:TI:246:GLY:HA2	2:TI:357:TYR:CD2	2.37	0.59
3:TJ:111:GLU:HG2	3:TJ:112:LEU:HD12	1.85	0.59
3:UD:375:GLN:HA	3:UD:378:PHE:CE1	2.37	0.59
2:UG:231:ILE:O	2:UG:235:VAL:HG22	2.03	0.59
3:UH:271:ALA:HB1	3:UH:272:PRO:HD2	1.82	0.59
3:VD:111:GLU:OE1	3:VD:111:GLU:N	2.35	0.59
3:VH:379:LYS:O	3:VH:382:SER:OG	2.15	0.59
2:WE:325:PRO:O	2:WE:329:ASN:ND2	2.35	0.59
23:XL:78:ILE:HG21	23:XL:113:ARG:HB3	1.84	0.59
24:YL:32:CYS:HA	24:YL:56:TYR:CE1	2.37	0.59
4:B3:43:ARG:O	4:B3:46:ARG:HG2	2.03	0.59
3:BH:91:VAL:HG11	3:BH:116:VAL:HG12	1.83	0.59
3:BH:275:SER:O	3:BH:279:GLN:NE2	2.35	0.59
2:BI:11:GLN:OE1	2:BI:11:GLN:N	2.35	0.59
5:C2:144:GLN:OE1	5:C2:144:GLN:N	2.36	0.59
3:CH:217:LEU:HD13	10:G5:299:THR:HG21	1.83	0.59
3:CH:375:GLN:HA	3:CH:378:PHE:CE1	2.37	0.59
6:D2:61:TYR:O	6:D2:65:HIS:ND1	2.33	0.59
3:DF:247:ASN:HD21	2:DG:11:GLN:NE2	2.00	0.59
3:DH:276:ARG:O	9:G2:285:ARG:NH2	2.36	0.59
3:EH:272:PRO:HA	3:EH:292:GLN:HE22	1.67	0.59
3:EH:345:ILE:HD12	3:EH:346:PRO:HD2	1.83	0.59
3:FD:378:PHE:CE1	3:FD:419:VAL:HG22	2.37	0.59
3:FF:190:HIS:CE1	3:FF:414:ASN:HD22	2.20	0.59
9:G1:207:ILE:HD12	9:G1:208:PRO:HD2	1.83	0.59
3:GD:2:ARG:HH12	2:GE:96:LYS:HB3	1.67	0.59
2:GG:89:PRO:HD2	2:HG:283:HIS:CE1	2.38	0.59
2:GG:104:ALA:HB1	2:GG:413:MET:HG3	1.84	0.59
2:GG:213:CYS:SG	2:GG:222:PRO:HG3	2.43	0.59
2:HE:101:ASN:HA	2:HE:144:GLY:HA2	1.84	0.59
3:HF:324:LYS:HD2	2:HG:221:ARG:HA	1.85	0.59
14:K3:381:PRO:HG2	14:K3:383:LEU:H	1.67	0.59
14:K4:147:ILE:O	14:K4:151:LEU:HG	2.03	0.59
2:KE:11:GLN:NE2	25:KE:501:GTP:O3A	2.34	0.59
3:KF:342:VAL:HB	3:KF:344:TRP:HE3	1.67	0.59
2:KG:90:GLU:OE1	2:KG:90:GLU:N	2.34	0.59
15:L2:177:GLN:HA	15:L2:180:LEU:HD12	1.85	0.59
2:LE:67:PHE:HB2	2:LE:92:LEU:HD13	1.83	0.59
3:LF:111:GLU:OE1	3:LF:111:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:417:GLU:N	2:ME:417:GLU:OE1	2.34	0.59
2:MI:188:ILE:HG12	2:MI:421:ALA:HB1	1.85	0.59
3:ND:222:TYR:CD1	3:ND:225:LEU:HD22	2.38	0.59
2:OG:115:VAL:HA	2:OG:118:VAL:HG22	1.84	0.59
3:OH:121:ARG:NH2	3:PH:336:LYS:HE3	2.16	0.59
19:P1:412:ILE:HG12	19:P1:451:GLN:HG3	1.85	0.59
19:P2:278:SER:HA	19:P2:281:TYR:CD1	2.38	0.59
2:PE:3:GLU:H	2:PE:133:GLN:HE22	1.50	0.59
2:PG:256:GLN:O	2:PG:260:VAL:HG12	2.03	0.59
20:Q2:1365:ALA:O	20:Q2:1368:GLU:HG3	2.02	0.59
20:Q2:1386:TYR:HB3	20:Q2:1395:ALA:HB3	1.83	0.59
3:RF:284:LEU:HD21	3:RF:363:MET:H	1.66	0.59
3:RH:162:ARG:HA	3:RH:251:ARG:NH2	2.18	0.59
2:RI:85:GLN:N	2:RI:85:GLN:OE1	2.31	0.59
2:RI:208:ALA:N	2:RI:304:LYS:HZ1	2.01	0.59
2:SE:401:LYS:O	2:SE:402:ARG:HG3	2.03	0.59
3:SF:12:CYS:HB3	25:SF:501:GTP:H5'	1.85	0.59
3:TH:12:CYS:SG	25:TH:501:GTP:H5'	2.43	0.59
2:UG:81:GLY:O	2:UG:84:ARG:NH1	2.36	0.59
3:UH:28:HIS:O	3:UH:43:GLN:NE2	2.35	0.59
3:UH:134:GLN:N	3:UH:134:GLN:OE1	2.35	0.59
3:VF:375:GLN:OE1	3:VF:375:GLN:N	2.33	0.59
2:WE:109:THR:O	2:WE:112:LYS:NZ	2.35	0.59
2:WE:238:ILE:HD11	2:WE:255:PHE:HE2	1.67	0.59
1:A2:320:ARG:O	1:A2:323:ARG:NH1	2.35	0.59
2:AE:211:ASP:HB2	2:AE:215:ARG:HH21	1.66	0.59
2:AG:401:LYS:C	2:AG:402:ARG:HD3	2.22	0.59
4:B7:35:SER:O	4:B7:39:ARG:HG2	2.03	0.59
4:B7:194:LEU:HG	4:B7:195:THR:HG23	1.83	0.59
3:BF:319:GLY:HA2	3:BF:357:PRO:HG3	1.83	0.59
3:BH:276:ARG:HB2	10:G5:125:LEU:HA	1.85	0.59
2:BI:415:GLU:N	2:BI:415:GLU:OE1	2.36	0.59
5:C3:395:VAL:O	5:C3:399:ARG:HG3	2.02	0.59
5:C4:413:ARG:NH1	5:C4:413:ARG:O	2.36	0.59
2:CI:118:VAL:HG11	2:CI:153:LEU:HD11	1.85	0.59
3:ED:226:ASN:HA	3:ED:229:VAL:HG12	1.84	0.59
8:F7:193:GLU:HB3	8:F7:472:MET:HE1	1.84	0.59
3:FD:20:PHE:CZ	3:FD:24:ILE:HD11	2.38	0.59
2:FE:5:ILE:HD13	2:FE:64:ARG:HB3	1.85	0.59
3:FF:318:ARG:HA	3:FF:354:CYS:O	2.03	0.59
3:FF:347:ASN:ND2	2:FG:176:GLN:O	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:380:ARG:O	3:FF:384:GLN:HG2	2.03	0.59
9:G2:210:ASP:O	9:G2:214:GLN:NE2	2.36	0.59
2:GG:88:HIS:CD2	2:HG:283:HIS:CE1	2.91	0.59
2:GI:276:ILE:HG21	2:GI:281:ALA:HB2	1.85	0.59
2:HI:220:GLU:O	2:HI:221:ARG:NE	2.36	0.59
3:IF:172:SER:OG	3:IF:205:GLU:OE2	2.20	0.59
2:IG:172:TYR:HB2	2:IG:203:MET:HB2	1.82	0.59
3:IH:46:ARG:HH22	2:II:73:THR:HG23	1.67	0.59
14:K3:161:THR:HA	14:K3:164:ARG:HB2	1.85	0.59
15:L3:88:VAL:H	2:LI:264:ARG:HH22	1.49	0.59
2:LE:68:VAL:HG12	2:LE:93:ILE:HB	1.83	0.59
2:LG:54:SER:OG	2:LG:64:ARG:NH2	2.35	0.59
3:LH:65:LEU:HD21	3:LH:73:MET:SD	2.42	0.59
16:M3:79:ILE:HG13	16:M3:80:TYR:N	2.16	0.59
2:MG:127:ASP:OD1	2:MG:128:LEU:N	2.35	0.59
2:NE:30:ILE:HG13	2:NE:53:PHE:HE2	1.65	0.59
3:NF:229:VAL:O	3:NF:232:THR:OG1	2.15	0.59
3:NH:8:GLN:NE2	3:NH:13:GLY:O	2.35	0.59
2:NI:323:VAL:HG21	2:NI:355:ILE:HD12	1.84	0.59
3:OD:12:CYS:SG	3:OD:13:GLY:N	2.76	0.59
2:OE:127:ASP:OD1	2:OE:128:LEU:N	2.35	0.59
3:OF:322:SER:OG	3:OF:324:LYS:NZ	2.31	0.59
2:OG:12:ALA:HB2	25:OG:501:GTP:H5''	1.85	0.59
2:OI:109:THR:O	2:OI:112:LYS:NZ	2.35	0.59
2:OI:167:LEU:HD13	2:OI:200:CYS:HB2	1.85	0.59
2:PE:16:ILE:HG22	2:PE:228:ASN:OD1	2.02	0.59
2:QE:160:ASP:OD1	2:QE:161:TYR:N	2.35	0.59
2:QE:224:TYR:HB3	2:QE:228:ASN:HD21	1.68	0.59
3:RF:309:ARG:HD2	3:RF:340:TYR:HA	1.84	0.59
3:RH:247:ASN:ND2	25:RI:501:GTP:O1G	2.36	0.59
2:RI:220:GLU:HG2	2:RI:221:ARG:HG2	1.85	0.59
3:RJ:132:GLY:HA2	3:RJ:162:ARG:HB3	1.85	0.59
2:SG:210:TYR:HE1	2:SG:227:LEU:HD21	1.66	0.59
2:SI:81:GLY:O	2:SI:84:ARG:NH1	2.35	0.59
3:SJ:357:PRO:HB3	3:SJ:362:LYS:O	2.03	0.59
3:TH:47:ILE:HG13	3:TH:51:TYR:HB2	1.85	0.59
2:TI:263:PRO:O	2:TI:264:ARG:HD3	2.03	0.59
2:UE:34:GLY:HA2	2:UE:86:LEU:HD21	1.84	0.59
2:UG:33:ASP:OD1	2:UG:34:GLY:N	2.36	0.59
3:VD:374:ILE:HG22	3:VD:378:PHE:HD2	1.68	0.59
3:VF:103:LYS:HD2	3:VF:107:THR:HB	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:131:GLN:HB3	3:VF:163:ILE:HD12	1.85	0.59
3:VF:372:THR:HG21	3:VF:426:GLN:HG3	1.84	0.59
2:WG:11:GLN:N	2:WG:69:ASP:OD1	2.35	0.59
24:YN:41:ARG:NH2	24:YN:44:SER:OG	2.35	0.59
2:AE:283:HIS:HE1	2:ME:88:HIS:HA	1.67	0.59
2:AE:385:ALA:HA	2:AE:388:TRP:HD1	1.67	0.59
3:AF:46:ARG:HH22	2:AG:73:THR:HA	1.66	0.59
3:AH:194:GLU:OE1	3:AH:195:ASN:ND2	2.35	0.59
4:B7:86:ASP:O	4:B7:89:ILE:HG22	2.03	0.59
2:BI:235:VAL:HA	2:BI:238:ILE:HG12	1.85	0.59
3:CJ:81:PHE:O	3:CJ:84:ILE:HG22	2.02	0.59
3:DD:15:GLN:HG2	3:DD:222:TYR:HE1	1.68	0.59
3:DH:70:PRO:O	3:DH:73:MET:HG2	2.02	0.59
3:EF:142:GLY:N	25:EF:501:GTP:O3B	2.34	0.59
2:FE:220:GLU:O	2:FE:221:ARG:NE	2.31	0.59
3:FF:197:ASP:OD1	3:FF:198:GLU:N	2.35	0.59
3:FH:268:PRO:HD2	3:FH:301:ALA:HB2	1.84	0.59
9:G1:107:VAL:HG11	9:G1:110:SER:HB3	1.83	0.59
10:G5:232:PHE:CZ	10:G5:353:LEU:HB3	2.37	0.59
3:GF:376:GLU:OE1	3:GF:376:GLU:N	2.32	0.59
2:HE:353:VAL:HG12	3:HF:177:ASP:OD1	2.02	0.59
2:HI:180:ALA:HB3	2:HI:183:GLU:HB2	1.83	0.59
3:IF:101:TRP:CE2	3:IF:187:LEU:HB3	2.38	0.59
3:KD:405:GLU:HA	3:KD:408:PHE:HD2	1.68	0.59
3:KH:117:LEU:HD11	3:KH:154:LYS:HD2	1.85	0.59
2:LG:263:PRO:O	2:LG:264:ARG:HB2	2.03	0.59
3:MF:324:LYS:HE2	2:MG:222:PRO:N	2.18	0.59
3:NH:139:LEU:HD21	3:NH:170:VAL:HA	1.85	0.59
2:NI:152:LEU:HG	2:NI:156:ARG:HH12	1.67	0.59
3:OD:345:ILE:HG13	2:OE:401:LYS:HZ1	1.68	0.59
2:OE:88:HIS:HB3	2:OE:91:GLN:HB2	1.85	0.59
2:OI:272:TYR:HE1	2:OI:374:ALA:HB1	1.68	0.59
2:PE:235:VAL:HA	2:PE:238:ILE:HG12	1.85	0.59
2:PI:88:HIS:HB3	2:PI:91:GLN:HB2	1.83	0.59
3:QF:147:MET:HG3	3:QF:151:LEU:HD23	1.84	0.59
2:QI:325:PRO:O	2:QI:329:ASN:ND2	2.36	0.59
2:RE:363:VAL:HG13	2:RE:366:GLY:HA3	1.83	0.59
2:RG:102:ASN:HD21	2:RG:411:GLU:HG2	1.67	0.59
2:RG:245:ASP:OD1	2:RG:249:ASN:ND2	2.35	0.59
3:RH:235:GLY:O	3:RH:238:THR:OG1	2.18	0.59
3:RJ:380:ARG:O	3:RJ:384:GLN:NE2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:175:PRO:HA	2:SG:390:ARG:CZ	2.32	0.59
2:SG:187:SER:O	2:SG:190:THR:OG1	2.19	0.59
3:SJ:280:GLN:N	3:SJ:280:GLN:OE1	2.35	0.59
3:UF:210:ILE:HA	3:UF:213:ARG:HG2	1.83	0.59
2:UG:272:TYR:CZ	2:UG:274:PRO:HG2	2.37	0.59
2:UG:427:ALA:HA	2:UG:430:LYS:HG2	1.83	0.59
2:WG:99:ALA:H	2:WG:145:THR:HG22	1.68	0.59
22:XC:60:THR:HA	22:XC:155:GLN:HA	1.83	0.59
23:XK:199:GLN:N	23:XK:199:GLN:OE1	2.36	0.59
3:AH:323:MET:SD	2:AI:210:TYR:OH	2.55	0.59
2:BI:101:ASN:HA	2:BI:144:GLY:HA2	1.84	0.59
5:C4:389:LYS:HZ3	5:C4:434:LEU:HD13	1.68	0.59
3:CF:378:PHE:HA	3:CF:381:ILE:HG22	1.83	0.59
3:CH:43:GLN:O	3:CH:241:ARG:NH2	2.36	0.59
2:CI:390:ARG:HA	2:CI:393:HIS:CD2	2.37	0.59
3:CJ:378:PHE:HA	3:CJ:381:ILE:HG12	1.83	0.59
6:D3:267:ARG:HA	6:D3:270:ARG:NE	2.16	0.59
3:DF:2:ARG:HA	3:DF:129:CYS:O	2.01	0.59
3:DH:218:THR:OG1	3:DH:219:THR:N	2.33	0.59
8:F7:439:ASP:O	8:F7:442:GLN:HG3	2.03	0.59
3:FF:173:PRO:HA	3:FF:380:ARG:CZ	2.33	0.59
2:FG:83:TYR:HD1	2:FG:86:LEU:HD12	1.67	0.59
3:FH:111:GLU:N	3:FH:111:GLU:OE1	2.35	0.59
10:G5:740:ILE:HD13	10:G5:744:GLY:HA3	1.85	0.59
2:HE:102:ASN:HD21	2:HE:411:GLU:HG2	1.68	0.59
2:HE:263:PRO:O	2:HE:265:ILE:N	2.33	0.59
3:HF:302:ALA:HB1	3:HF:377:LEU:HD11	1.85	0.59
2:HG:325:PRO:HG3	3:HH:222:TYR:HE1	1.67	0.59
2:HI:392:ASP:HB2	2:HI:422:ARG:NH1	2.18	0.59
2:IE:216:ASN:HD21	2:IE:275:VAL:HG13	1.68	0.59
3:IF:324:LYS:NZ	2:IG:222:PRO:O	2.28	0.59
3:JD:375:GLN:HA	3:JD:378:PHE:CZ	2.37	0.59
14:K3:164:ARG:HD3	14:K3:167:GLU:OE2	2.03	0.59
3:KF:324:LYS:HE2	2:KG:222:PRO:HD2	1.85	0.59
3:LD:2:ARG:NH1	2:LE:96:LYS:HB3	2.18	0.59
3:MH:409:THR:O	3:MH:412:GLU:HG3	2.03	0.59
2:NE:101:ASN:HA	2:NE:144:GLY:HA2	1.84	0.59
3:NF:46:ARG:NH1	3:NF:240:LEU:O	2.35	0.59
3:NF:134:GLN:HA	3:NF:165:ASN:O	2.03	0.59
2:NG:388:TRP:HB3	2:NG:425:LEU:HD11	1.85	0.59
3:OD:72:THR:O	3:OD:75:SER:OG	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:46:ASP:OD1	2:OE:50:ASN:ND2	2.26	0.59
2:OG:46:ASP:HA	2:OG:50:ASN:HB3	1.84	0.59
2:OG:261:PRO:HD3	2:OG:313:MET:HE1	1.84	0.59
3:OH:415:MET:O	3:OH:419:VAL:HG23	2.03	0.59
2:OI:32:PRO:O	2:OI:85:GLN:NE2	2.28	0.59
2:QE:30:ILE:HA	2:QE:36:MET:HE1	1.83	0.59
3:QH:32:PRO:O	3:QH:83:GLN:NE2	2.27	0.59
3:RH:324:LYS:NZ	2:RI:222:PRO:O	2.32	0.59
3:RJ:19:LYS:HZ2	3:RJ:227:HIS:HB2	1.66	0.59
2:SI:127:ASP:OD1	2:SI:128:LEU:N	2.34	0.59
2:TI:273:ALA:HB2	2:TI:295:CYS:HB3	1.85	0.59
3:UD:6:HIS:O	3:UD:63:ALA:HA	2.03	0.59
3:UD:182:PRO:HB2	3:UD:388:MET:HE1	1.84	0.59
2:UE:171:ILE:HD12	2:UE:204:VAL:HG23	1.83	0.59
2:UG:19:ALA:HA	2:UG:22:GLU:HB2	1.84	0.59
2:UG:89:PRO:HD2	2:VG:280:LYS:HZ3	1.67	0.59
2:UG:214:ARG:NH1	2:UG:215:ARG:HG3	2.17	0.59
2:VE:211:ASP:O	2:VE:215:ARG:HB2	2.03	0.59
3:VF:334:GLN:HA	3:VF:341:PHE:HE2	1.68	0.59
3:VF:380:ARG:O	3:VF:384:GLN:HG2	2.02	0.59
3:WF:130:LEU:HB2	3:WF:162:ARG:HH11	1.67	0.59
3:WH:375:GLN:HA	3:WH:378:PHE:CZ	2.38	0.59
2:WI:54:SER:H	2:WI:62:VAL:H	1.50	0.59
2:WI:163:LYS:HG3	2:WI:164:LYS:HG2	1.85	0.59
23:XK:85:GLU:HG2	23:XK:86:LYS:HG2	1.83	0.59
2:AE:102:ASN:HD21	2:AE:411:GLU:HG2	1.68	0.59
2:AE:168:GLU:HG2	2:AE:201:ALA:HA	1.84	0.59
2:BG:236:SER:O	2:BG:243:ARG:NH2	2.34	0.59
5:C2:276:ASN:OD1	5:C2:277:THR:N	2.36	0.59
5:C3:131:LYS:HD2	5:C3:134:GLN:HE21	1.66	0.59
2:CG:207:GLU:HB2	2:CG:304:LYS:NZ	2.17	0.59
3:DD:219:THR:O	9:G1:281:ARG:NH2	2.36	0.59
7:E3:52:THR:HB	7:E3:53:PRO:HD3	1.83	0.59
3:EF:31:ASP:OD1	3:EF:34:GLY:N	2.36	0.59
2:EG:188:ILE:HG13	2:EG:421:ALA:HB1	1.85	0.59
8:F3:128:ASP:O	8:F3:131:ILE:HG22	2.03	0.59
8:F3:239:GLN:O	8:F3:243:ASN:ND2	2.34	0.59
2:FE:221:ARG:HG3	10:G5:631:ILE:HD13	1.84	0.59
2:FG:75:VAL:HG23	2:FG:92:LEU:HD12	1.84	0.59
3:GD:185:ALA:O	3:GD:189:VAL:HG12	2.03	0.59
2:GE:85:GLN:OE1	2:GE:85:GLN:N	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:251:ASP:OD1	2:GG:252:LEU:N	2.36	0.59
3:HF:217:LEU:HD11	3:HF:220:PRO:HB3	1.85	0.59
3:HF:222:TYR:HA	3:HF:225:LEU:HD13	1.85	0.59
2:HG:254:GLU:N	2:HG:254:GLU:OE1	2.33	0.59
2:IE:278:ALA:HA	2:IE:369:ALA:HB2	1.84	0.59
2:IG:207:GLU:HB2	2:IG:304:LYS:NZ	2.16	0.59
3:JD:2:ARG:HD3	3:JD:131:GLN:HG3	1.85	0.59
3:KD:256:ASN:OD1	2:KE:101:ASN:ND2	2.35	0.59
3:KF:19:LYS:NZ	3:KF:223:GLY:O	2.35	0.59
3:KH:99:ASN:HB2	3:KH:142:GLY:HA3	1.85	0.59
3:LF:26:ASP:OD2	3:LF:359:ARG:NE	2.35	0.59
3:MH:392:LYS:HB2	3:MH:395:LEU:HD22	1.84	0.59
3:NF:209:ASP:O	3:NF:213:ARG:HG2	2.03	0.59
2:NG:262:TYR:CE1	3:NH:393:ALA:HA	2.37	0.59
2:NI:88:HIS:CE1	2:NI:121:ARG:HH22	2.20	0.59
2:OE:205:ASP:OD2	2:OE:304:LYS:NZ	2.33	0.59
19:P2:599:ASN:ND2	19:P2:616:TYR:OH	2.36	0.59
2:PI:42:ILE:HG21	2:PI:59:GLY:HA2	1.83	0.59
2:PI:109:THR:O	2:PI:112:LYS:NZ	2.36	0.59
20:Q1:1439:ALA:HB2	20:Q1:1489:GLU:HG2	1.83	0.59
3:QF:207:LEU:HD21	3:QF:228:LEU:HD22	1.85	0.59
2:QG:161:TYR:HB3	2:QG:164:LYS:HD2	1.85	0.59
21:R2:270:VAL:HG12	21:R2:280:TYR:CD2	2.38	0.59
3:RF:278:SER:O	3:RF:282:ARG:HB2	2.03	0.59
25:RF:501:GTP:O3'	25:RF:501:GTP:O3G	2.21	0.59
3:SF:117:LEU:HA	3:SF:120:VAL:HG22	1.84	0.59
3:TF:324:LYS:HD2	2:TG:221:ARG:HA	1.84	0.59
3:TH:55:THR:HG23	3:UF:283:ALA:HA	1.85	0.59
3:TJ:314:ALA:HA	3:TJ:350:LYS:O	2.03	0.59
3:UD:211:CYS:HA	3:UD:215:LEU:HB2	1.85	0.59
3:UD:334:GLN:O	3:UD:338:SER:OG	2.16	0.59
3:VF:12:CYS:SG	3:VF:13:GLY:N	2.75	0.59
3:VF:193:VAL:HG21	3:VF:418:LEU:HD11	1.85	0.59
2:VG:108:TYR:O	2:VG:112:LYS:NZ	2.35	0.59
2:WE:258:ASN:HD21	3:WF:178:THR:HG23	1.68	0.59
3:WF:415:MET:O	3:WF:419:VAL:HG23	2.03	0.59
2:WG:6:SER:O	2:WG:65:ALA:HA	2.02	0.59
23:XL:163:SER:OG	23:XL:164:GLU:N	2.36	0.59
24:YI:113:LEU:HB3	24:YI:136:GLY:HA2	1.85	0.59
24:YJ:151:TRP:HA	24:YJ:154:HIS:CE1	2.37	0.59
24:YN:120:GLU:HG3	24:YN:124:HIS:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:127:ASP:OD1	2:AE:128:LEU:N	2.36	0.59
3:AF:69:GLU:OE1	3:AF:72:THR:N	2.30	0.59
2:AI:10:GLY:O	2:AI:13:GLY:N	2.35	0.59
3:BF:378:PHE:CD1	3:BF:419:VAL:HG22	2.37	0.59
3:BF:405:GLU:HA	3:BF:408:PHE:HD2	1.68	0.59
3:CF:337:ASN:HB2	3:CF:340:TYR:CD1	2.38	0.59
2:CI:34:GLY:HA2	2:CI:86:LEU:HD11	1.84	0.59
2:CI:254:GLU:O	2:CI:258:ASN:ND2	2.26	0.59
6:D8:368:LEU:O	6:D9:252:SER:OG	2.15	0.59
6:D9:102:LYS:O	6:D9:105:GLU:HG2	2.02	0.59
3:DD:358:PRO:HB2	3:DD:361:LEU:HD21	1.84	0.59
3:DH:172:SER:OG	3:DH:205:GLU:OE2	2.21	0.59
3:EF:111:GLU:HG2	3:EF:112:LEU:HD12	1.85	0.59
3:FD:69:GLU:O	3:FD:72:THR:OG1	2.17	0.59
3:FD:344:TRP:HA	2:FE:401:LYS:HE2	1.83	0.59
3:FH:175:VAL:HG22	3:FH:177:ASP:H	1.65	0.59
2:GE:310:GLY:HA3	2:GE:383:ALA:HB2	1.85	0.59
2:GG:328:VAL:O	2:GG:332:ILE:HG12	2.03	0.59
2:GG:338:LYS:NZ	2:GG:339:ARG:H	2.01	0.59
2:GI:264:ARG:O	2:GI:266:HIS:ND1	2.31	0.59
3:HD:67:ASP:OD2	3:HD:72:THR:OG1	2.20	0.59
3:HD:176:SER:O	3:HD:178:THR:N	2.36	0.59
2:HE:141:PHE:HB2	2:HE:173:PRO:HD3	1.84	0.59
3:HH:190:HIS:NE2	3:HH:410:GLU:OE1	2.36	0.59
2:IG:351:PHE:HZ	3:IH:175:VAL:HB	1.68	0.59
2:II:144:GLY:N	25:II:501:GTP:O2B	2.35	0.59
13:J3:166:ARG:O	13:J3:177:ASN:HB2	2.02	0.59
3:JF:31:ASP:HB3	3:JF:37:HIS:NE2	2.17	0.59
2:JG:50:ASN:O	2:JG:64:ARG:NH1	2.32	0.59
2:KE:392:ASP:OD1	2:KE:393:HIS:N	2.36	0.59
2:KG:45:GLY:HA2	2:KG:49:PHE:HE1	1.66	0.59
3:KH:40:SER:HB2	3:KH:43:GLN:HG2	1.85	0.59
3:KH:350:LYS:NZ	2:KI:181:VAL:HG13	2.15	0.59
2:LE:262:TYR:CE1	3:LF:393:ALA:HA	2.37	0.59
3:LF:286:VAL:HG21	3:LF:325:GLU:HG3	1.83	0.59
3:LF:350:LYS:HE3	2:LG:181:VAL:H	1.67	0.59
2:LG:35:GLN:NE2	2:LG:59:GLY:O	2.35	0.59
3:MH:374:ILE:HG22	3:MH:378:PHE:CE2	2.38	0.59
3:ND:275:SER:N	3:ND:278:SER:OG	2.35	0.59
2:NE:228:ASN:HA	2:NE:231:ILE:HG12	1.85	0.59
2:NG:214:ARG:NH1	2:NG:215:ARG:HG3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:225:THR:O	2:NG:229:ARG:HG3	2.03	0.59
3:NH:58:LYS:HE2	3:OH:281:TYR:CE1	2.37	0.59
3:NH:313:VAL:HG23	3:NH:349:VAL:HA	1.85	0.59
2:OE:316:CYS:O	2:OE:377:MET:HA	2.03	0.59
2:OG:327:ASP:OD1	2:OG:328:VAL:N	2.35	0.59
2:OI:306:ASP:OD2	2:OI:309:HIS:N	2.35	0.59
19:P1:521:GLY:O	19:P1:547:SER:OG	2.20	0.59
19:P2:167:SER:OG	19:P2:217:ASP:OD2	2.21	0.59
19:P2:410:TYR:CE2	19:P2:412:ILE:HG13	2.38	0.59
3:PF:418:LEU:O	3:PF:421:GLU:HG3	2.02	0.59
3:PH:178:THR:HG23	3:PH:181:GLU:HB2	1.85	0.59
3:PH:307:HIS:ND1	3:PH:376:GLU:OE2	2.35	0.59
2:PI:9:VAL:HG11	2:PI:150:ALA:HB2	1.85	0.59
20:Q2:1469:LEU:N	20:Q2:1504:LYS:O	2.32	0.59
2:QG:205:ASP:OD2	2:QG:304:LYS:NZ	2.36	0.59
2:QG:272:TYR:CZ	2:QG:274:PRO:HG2	2.38	0.59
2:QI:117:LEU:O	2:QI:121:ARG:HG2	2.03	0.59
2:QI:196:GLU:OE1	2:QI:196:GLU:N	2.23	0.59
3:RH:380:ARG:O	3:RH:384:GLN:HG2	2.03	0.59
2:RI:234:ILE:HD11	2:RI:272:TYR:HB2	1.83	0.59
3:TF:269:GLY:HA3	3:TF:367:PHE:HB3	1.84	0.59
3:UF:324:LYS:HE2	2:UG:222:PRO:HG2	1.84	0.59
3:UH:12:CYS:SG	25:UH:501:GTP:H5'	2.43	0.59
25:VF:501:GTP:O3G	25:VF:501:GTP:O3'	2.18	0.59
2:VG:256:GLN:O	2:VG:260:VAL:HG12	2.02	0.59
3:VH:275:SER:O	3:VH:279:GLN:NE2	2.35	0.59
3:WF:3:GLU:HA	3:WF:49:VAL:HG23	1.85	0.59
23:XL:182:ASN:O	23:XL:185:LYS:NZ	2.34	0.59
24:YI:130:ALA:HA	24:YI:134:TYR:HB2	1.85	0.59
3:AF:11:GLN:HG3	25:AF:501:GTP:O5'	2.02	0.58
3:AF:118:ASP:OD1	3:AF:121:ARG:NH1	2.36	0.58
3:AF:268:PRO:HD2	3:AF:301:ALA:HB2	1.85	0.58
3:BF:375:GLN:HA	3:BF:378:PHE:CZ	2.38	0.58
2:BI:117:LEU:O	2:BI:121:ARG:HG2	2.03	0.58
5:C2:287:VAL:HG22	5:C2:290:VAL:HG21	1.85	0.58
5:C3:157:LYS:HD3	5:C3:261:LYS:HG3	1.86	0.58
3:CF:357:PRO:HB3	3:CF:362:LYS:HA	1.84	0.58
6:D7:331:ASP:OD1	6:D7:332:GLN:N	2.35	0.58
3:DD:180:VAL:HG21	3:DD:398:TYR:HE2	1.68	0.58
2:DE:287:SER:OG	2:DE:290:GLU:OE1	2.15	0.58
2:DE:320:ARG:HD3	2:DE:360:PRO:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:40:LYS:HZ3	10:G5:437:PHE:HE2	1.50	0.58
2:EG:68:VAL:HG12	2:EG:93:ILE:HB	1.83	0.58
3:FH:267:MET:SD	3:FH:301:ALA:HB3	2.43	0.58
9:G1:301:LEU:HD11	9:G1:315:ILE:HG21	1.85	0.58
9:G2:193:PHE:HD2	9:G2:194:LEU:HD22	1.68	0.58
2:GE:306:ASP:OD2	2:GE:309:HIS:N	2.36	0.58
3:GH:12:CYS:HA	25:GH:501:GTP:N2	2.18	0.58
3:GH:130:LEU:H	3:GH:162:ARG:NH1	2.00	0.58
3:HD:278:SER:O	3:HD:282:ARG:HB2	2.03	0.58
3:IH:415:MET:O	3:IH:419:VAL:HG23	2.03	0.58
13:J2:92:HIS:O	13:J2:96:MET:HG2	2.03	0.58
3:JF:342:VAL:HB	3:JF:344:TRP:HE3	1.68	0.58
3:KH:258:VAL:HB	2:KI:407:TRP:HZ2	1.67	0.58
2:KI:308:ARG:NH2	2:KI:340:THR:O	2.36	0.58
3:LH:142:GLY:O	3:LH:145:SER:OG	2.17	0.58
2:LI:27:GLU:HG2	2:LI:28:HIS:HD1	1.68	0.58
2:LI:90:GLU:OE2	2:MI:280:LYS:HE2	2.03	0.58
2:LI:220:GLU:O	2:LI:221:ARG:NE	2.35	0.58
3:MF:139:LEU:N	3:MF:168:SER:OG	2.35	0.58
2:NE:320:ARG:HG2	2:NE:358:GLN:O	2.02	0.58
3:NF:4:ILE:HD11	3:NF:131:GLN:HB2	1.85	0.58
2:OE:33:ASP:OD1	2:OE:34:GLY:N	2.35	0.58
2:OI:274:PRO:HG3	2:OI:374:ALA:HA	1.84	0.58
19:P2:217:ASP:O	19:P2:235:LYS:NZ	2.35	0.58
20:Q1:1356:GLY:HA2	20:Q1:1393:LYS:HG3	1.83	0.58
20:Q2:1449:HIS:ND1	20:Q2:1450:CYS:SG	2.76	0.58
2:QE:224:TYR:CE2	25:QE:501:GTP:C5	2.90	0.58
2:QG:213:CYS:HA	2:QG:217:LEU:HB2	1.84	0.58
3:RF:3:GLU:OE2	3:RF:128:ASP:N	2.36	0.58
3:RF:21:TRP:CZ2	3:RF:63:ALA:HB2	2.38	0.58
2:RG:88:HIS:CE1	2:RG:121:ARG:HH22	2.21	0.58
3:RJ:278:SER:HA	3:RJ:281:TYR:HB2	1.85	0.58
3:SF:334:GLN:HA	3:SF:341:PHE:HE2	1.68	0.58
3:SF:419:VAL:O	3:SF:423:GLN:NE2	2.36	0.58
3:TF:3:GLU:HG2	3:TF:130:LEU:HD23	1.84	0.58
3:TJ:134:GLN:HA	3:TJ:165:ASN:O	2.03	0.58
3:UF:12:CYS:SG	3:UF:13:GLY:N	2.76	0.58
23:XK:85:GLU:OE1	23:XK:85:GLU:N	2.31	0.58
1:A2:252:ASP:OD1	1:A2:255:ARG:NH2	2.32	0.58
2:AE:1:MET:HG3	2:AE:2:ARG:H	1.67	0.58
2:AG:109:THR:O	2:AG:112:LYS:NZ	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B3:214:THR:OG1	4:B3:217:GLN:OE1	2.17	0.58
3:BF:11:GLN:O	3:BF:15:GLN:NE2	2.36	0.58
3:BH:81:PHE:O	3:BH:84:ILE:HG22	2.03	0.58
3:BH:282:ARG:NH2	3:BH:292:GLN:OE1	2.35	0.58
5:C2:287:VAL:CG2	5:C2:290:VAL:HG21	2.32	0.58
3:CH:7:LEU:HD13	3:CH:64:VAL:HB	1.85	0.58
2:CI:115:VAL:HG21	2:CI:156:ARG:HD3	1.84	0.58
3:CJ:172:SER:OG	3:CJ:205:GLU:OE2	2.21	0.58
6:D7:415:ASP:OD2	6:D8:63:ARG:NH2	2.31	0.58
2:DE:127:ASP:OD1	2:DE:128:LEU:N	2.36	0.58
2:DE:346:TRP:HE1	3:DF:391:ARG:HH11	1.50	0.58
3:DF:233:MET:HA	3:DF:236:VAL:HG12	1.84	0.58
2:EE:133:GLN:HB3	2:EE:252:LEU:HD21	1.85	0.58
3:FD:80:PRO:O	3:FD:83:GLN:NE2	2.33	0.58
2:FE:224:TYR:CE1	25:FE:501:GTP:C5	2.83	0.58
9:G1:391:GLU:N	9:G1:391:GLU:OE1	2.35	0.58
3:GD:378:PHE:HA	3:GD:381:ILE:HG12	1.85	0.58
3:GH:28:HIS:ND1	3:GH:43:GLN:HB2	2.17	0.58
2:HG:245:ASP:HA	2:HG:249:ASN:HD21	1.67	0.58
3:HH:19:LYS:HZ3	3:HH:227:HIS:HB2	1.68	0.58
2:JE:271:THR:HB	2:JE:377:MET:HB3	1.85	0.58
2:JG:245:ASP:O	2:JG:356:ASN:ND2	2.36	0.58
3:KH:292:GLN:O	3:KH:298:ASN:ND2	2.33	0.58
2:KI:144:GLY:N	25:KI:501:GTP:O2B	2.36	0.58
15:L2:53:LYS:NZ	15:L2:54:VAL:O	2.33	0.58
2:LE:189:LEU:HA	2:LE:192:HIS:CE1	2.37	0.58
3:LF:119:VAL:HA	3:LF:122:LYS:HE2	1.84	0.58
3:LH:211:CYS:HA	3:LH:215:LEU:HD13	1.85	0.58
2:MG:113:GLU:OE1	2:MG:113:GLU:N	2.36	0.58
3:MH:310:TYR:CD1	3:MH:371:SER:HB2	2.38	0.58
18:O2:16:PRO:HB3	18:O2:21:ASN:HB3	1.85	0.58
2:OE:166:LYS:O	2:OE:199:ASP:HB2	2.02	0.58
3:OF:405:GLU:HA	3:OF:408:PHE:CD2	2.38	0.58
19:P2:282:LYS:HG2	19:P2:283:PRO:HD2	1.84	0.58
3:PF:269:GLY:N	3:PF:367:PHE:O	2.36	0.58
2:PG:214:ARG:NH1	2:PG:215:ARG:HG3	2.18	0.58
3:PH:293:MET:HA	3:PH:298:ASN:HD22	1.68	0.58
2:PI:310:GLY:HA3	2:PI:383:ALA:HB2	1.85	0.58
3:QF:44:LEU:HD21	24:YI:24:THR:HG21	1.85	0.58
3:QH:415:MET:O	3:QH:419:VAL:HG23	2.02	0.58
21:R2:254:GLU:N	21:R2:254:GLU:OE1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RE:25:CYS:HB2	2:RE:30:ILE:HB	1.84	0.58
2:RG:261:PRO:HA	3:RH:394:PHE:CE1	2.37	0.58
3:RH:12:CYS:HA	25:RH:501:GTP:HN22	1.68	0.58
3:SF:318:ARG:HA	3:SF:354:CYS:O	2.02	0.58
3:SF:385:PHE:HZ	3:SF:408:PHE:HB3	1.68	0.58
2:SG:16:ILE:HG22	2:SG:228:ASN:OD1	2.04	0.58
3:TF:12:CYS:SG	25:TF:501:GTP:H5'	2.42	0.58
2:TG:256:GLN:OE1	3:TH:397:TRP:NE1	2.30	0.58
2:TI:214:ARG:NH1	2:TI:215:ARG:HG3	2.19	0.58
2:TI:240:ALA:HB1	2:TI:356:ASN:HD22	1.68	0.58
3:UF:111:GLU:HG2	3:UF:112:LEU:HD12	1.85	0.58
3:UF:214:THR:HG23	3:UF:215:LEU:HD12	1.85	0.58
3:UF:306:ARG:HH22	3:UF:340:TYR:HD2	1.50	0.58
2:UG:224:TYR:O	2:UG:225:THR:C	2.41	0.58
2:UG:236:SER:O	2:UG:243:ARG:NH2	2.32	0.58
2:UG:314:ALA:O	2:UG:379:SER:HA	2.02	0.58
2:UG:316:CYS:O	2:UG:377:MET:HA	2.03	0.58
3:VF:36:TYR:CE2	3:VF:44:LEU:HD21	2.39	0.58
2:WE:125:LEU:HD13	2:WE:128:LEU:HD21	1.85	0.58
3:WH:54:ALA:HB3	3:WH:58:LYS:HG3	1.85	0.58
23:XJ:232:VAL:HB	23:XJ:235:TYR:HB2	1.86	0.58
1:A2:143:ILE:O	1:A2:147:MET:HG2	2.03	0.58
1:A2:356:ALA:HA	1:A2:359:GLN:HE21	1.69	0.58
1:A3:61:LYS:HD3	4:B2:281:TRP:CD2	2.37	0.58
3:AF:138:SER:OG	3:AF:141:GLY:N	2.36	0.58
2:AI:320:ARG:HD3	2:AI:360:PRO:HG3	1.84	0.58
4:B3:102:ASN:O	4:B3:106:LYS:NZ	2.33	0.58
5:C2:114:ARG:CZ	5:C3:367:LYS:HD3	2.33	0.58
5:C4:408:ASN:OD1	5:C4:409:VAL:N	2.35	0.58
5:C8:174:LEU:HA	5:C8:177:ILE:HD12	1.85	0.58
2:CI:425:LEU:O	2:CI:428:LEU:HG	2.03	0.58
6:D8:352:VAL:O	6:D8:356:ARG:HG2	2.03	0.58
2:EG:230:LEU:O	2:EG:233:GLN:HG3	2.03	0.58
3:EH:198:GLU:HG2	3:EH:266:PHE:CE2	2.38	0.58
3:EH:276:ARG:HB3	9:G2:397:CYS:SG	2.42	0.58
2:FE:192:HIS:NE2	2:FE:420:GLU:OE2	2.37	0.58
3:FF:84:ILE:O	3:FF:86:ARG:NH1	2.35	0.58
2:FG:230:LEU:O	2:FG:233:GLN:HG3	2.03	0.58
2:GE:224:TYR:HA	2:GE:227:LEU:HB2	1.85	0.58
3:GF:2:ARG:HH12	2:GG:97:GLU:HG3	1.68	0.58
11:H3:292:MET:HG2	11:H3:293:GLN:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:153:SER:HB3	3:HD:191:GLN:NE2	2.18	0.58
2:HE:25:CYS:HB2	2:HE:30:ILE:HB	1.85	0.58
3:HF:363:MET:HE3	3:HF:364:SER:H	1.69	0.58
3:HH:19:LYS:O	3:HH:22:GLU:HG3	2.02	0.58
13:J2:149:TRP:CG	13:J2:176:PRO:HG3	2.39	0.58
3:KH:324:LYS:HE2	2:KI:222:PRO:CD	2.33	0.58
2:KI:390:ARG:HA	2:KI:393:HIS:CD2	2.38	0.58
2:NG:264:ARG:O	2:NG:266:HIS:ND1	2.30	0.58
3:NH:15:GLN:NE2	25:NH:501:GTP:C2	2.62	0.58
3:OD:190:HIS:NE2	3:OD:410:GLU:OE1	2.37	0.58
2:OG:5:ILE:O	2:OG:135:PHE:HA	2.02	0.58
19:P2:606:SER:OG	19:P2:608:ASP:OD1	2.18	0.58
2:PE:245:ASP:O	2:PE:356:ASN:ND2	2.35	0.58
2:PG:188:ILE:HG13	2:PG:421:ALA:HB1	1.85	0.58
2:PG:211:ASP:HB2	2:PG:215:ARG:HH21	1.68	0.58
20:Q2:1489:GLU:HA	20:Q2:1492:HIS:HD2	1.67	0.58
3:QF:193:VAL:HG11	3:QF:414:ASN:HD21	1.69	0.58
3:QH:330:MET:SD	3:QH:349:VAL:HG11	2.43	0.58
2:QI:74:VAL:O	2:QI:77:GLU:HG3	2.03	0.58
2:RG:144:GLY:N	25:RG:501:GTP:O2B	2.36	0.58
2:SI:349:THR:HG23	3:SJ:179:VAL:HG12	1.83	0.58
3:TF:64:VAL:HG21	3:TF:120:VAL:HG12	1.83	0.58
2:TG:188:ILE:HG12	2:TG:421:ALA:HB1	1.84	0.58
3:TJ:170:VAL:N	3:TJ:202:ILE:O	2.23	0.58
2:UE:329:ASN:HA	2:UE:332:ILE:HG22	1.85	0.58
2:UG:8:HIS:CE1	2:UG:138:PHE:CD2	2.92	0.58
2:VE:417:GLU:O	2:VE:420:GLU:HG2	2.03	0.58
3:VF:5:VAL:HB	3:VF:133:PHE:CE1	2.38	0.58
3:VF:103:LYS:HG3	3:VF:108:GLU:HG2	1.85	0.58
2:VG:33:ASP:OD1	2:VG:34:GLY:N	2.37	0.58
2:WE:232:GLY:HA2	2:WE:235:VAL:HG22	1.85	0.58
2:WE:326:LYS:HA	2:WE:329:ASN:HD21	1.67	0.58
3:WH:324:LYS:HE2	2:WI:222:PRO:HG2	1.84	0.58
2:WI:22:GLU:O	2:WI:26:LEU:HD23	2.03	0.58
24:YN:146:ASP:OD1	24:YN:147:PHE:N	2.36	0.58
4:B3:392:ASP:OD1	4:B3:395:ARG:NH2	2.37	0.58
3:BF:6:HIS:HE1	3:BF:8:GLN:HB2	1.68	0.58
2:BI:419:SER:O	2:BI:422:ARG:HG2	2.04	0.58
3:CH:142:GLY:N	25:CH:501:GTP:O3B	2.35	0.58
3:CH:322:SER:OG	3:CH:324:LYS:NZ	2.36	0.58
3:DD:170:VAL:N	3:DD:202:ILE:O	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:119:LEU:HA	2:DE:122:ILE:HG12	1.85	0.58
2:DE:427:ALA:HA	2:DE:430:LYS:HG2	1.86	0.58
2:EE:216:ASN:OD1	2:EE:217:LEU:N	2.36	0.58
2:EG:217:LEU:HD21	2:EG:275:VAL:HB	1.84	0.58
2:EG:273:ALA:HB2	2:EG:295:CYS:HB3	1.84	0.58
2:FE:287:SER:OG	2:FE:290:GLU:OE1	2.17	0.58
3:FF:184:ASN:ND2	3:FF:398:TYR:OH	2.36	0.58
2:FG:234:ILE:HD11	2:FG:272:TYR:HB2	1.85	0.58
9:G1:271:ASP:OD2	9:G1:296:ARG:NH1	2.35	0.58
2:GG:301:GLN:HE21	2:GG:303:VAL:HG23	1.68	0.58
3:HD:378:PHE:CE1	3:HD:419:VAL:HG22	2.39	0.58
3:HF:28:HIS:O	3:HF:43:GLN:NE2	2.36	0.58
3:HH:372:THR:HB	3:HH:375:GLN:HE22	1.67	0.58
2:HI:392:ASP:HB2	2:HI:422:ARG:HH12	1.68	0.58
2:IE:89:PRO:HD3	3:JD:281:TYR:CE2	2.39	0.58
3:JF:375:GLN:HA	3:JF:378:PHE:CZ	2.37	0.58
3:JH:211:CYS:SG	3:JH:220:PRO:HG3	2.43	0.58
2:KI:234:ILE:HD11	2:KI:272:TYR:HB2	1.86	0.58
2:LE:346:TRP:CZ3	3:LF:391:ARG:HB2	2.38	0.58
3:MF:325:GLU:OE1	3:MF:325:GLU:N	2.26	0.58
2:NG:160:ASP:OD1	2:NG:161:TYR:N	2.37	0.58
2:OE:117:LEU:O	2:OE:121:ARG:HG2	2.02	0.58
2:OI:327:ASP:OD1	2:OI:328:VAL:N	2.37	0.58
19:P1:271:GLY:O	19:P1:288:GLN:NE2	2.36	0.58
2:PE:254:GLU:OE1	2:PE:254:GLU:N	2.28	0.58
2:PG:3:GLU:H	2:PG:133:GLN:HE22	1.51	0.58
3:PH:52:ASN:OD1	3:PH:62:ARG:NH1	2.36	0.58
3:PH:234:SER:O	3:PH:238:THR:HG23	2.03	0.58
2:QE:33:ASP:HA	2:QE:85:GLN:HG3	1.85	0.58
3:QF:131:GLN:HB3	3:QF:163:ILE:HD12	1.86	0.58
3:QH:162:ARG:HD3	3:QH:251:ARG:NH2	2.17	0.58
3:RH:246:LEU:HD12	3:RH:352:ALA:HB1	1.86	0.58
2:RI:212:ILE:HA	2:RI:215:ARG:HB2	1.85	0.58
2:SE:312:TYR:HB2	2:SE:343:PHE:HD1	1.68	0.58
3:SF:19:LYS:NZ	3:SF:223:GLY:O	2.33	0.58
3:SF:197:ASP:OD1	3:SF:198:GLU:N	2.36	0.58
3:SH:7:LEU:HB2	3:SH:135:LEU:HG	1.84	0.58
2:SI:176:GLN:OE1	2:SI:176:GLN:N	2.37	0.58
2:SI:263:PRO:C	2:SI:264:ARG:HD3	2.23	0.58
3:VD:338:SER:HA	3:VD:341:PHE:HD2	1.68	0.58
2:VE:316:CYS:O	2:VE:377:MET:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:101:ASN:HA	2:VG:144:GLY:HA2	1.85	0.58
3:WF:31:ASP:OD1	3:WF:35:THR:N	2.37	0.58
3:WH:6:HIS:HD2	3:WH:134:GLN:HG2	1.69	0.58
2:WI:127:ASP:OD1	2:WI:128:LEU:N	2.37	0.58
2:WI:206:ASN:HA	2:WI:209:ILE:HB	1.85	0.58
22:XC:33:HIS:CD2	22:XC:35:LYS:HG3	2.39	0.58
24:YI:32:CYS:HA	24:YI:56:TYR:CE1	2.38	0.58
24:YJ:86:LEU:HB3	24:YJ:87:HIS:ND1	2.18	0.58
24:YK:5:LYS:O	24:YK:9:ARG:NH1	2.36	0.58
2:BG:101:ASN:HA	2:BG:144:GLY:HA2	1.84	0.58
3:BH:358:PRO:HD2	3:BH:361:LEU:HD11	1.84	0.58
3:CH:55:THR:HG23	3:DF:283:ALA:HA	1.85	0.58
3:CH:156:ARG:NH1	3:CH:195:ASN:O	2.36	0.58
3:CJ:372:THR:HG21	3:CJ:426:GLN:HB3	1.85	0.58
3:DF:215:LEU:HD21	3:DF:228:LEU:HD11	1.85	0.58
2:DG:188:ILE:HG12	2:DG:421:ALA:HB1	1.84	0.58
2:DG:189:LEU:HD11	2:DG:418:PHE:HE1	1.69	0.58
2:DG:207:GLU:HB2	2:DG:304:LYS:NZ	2.18	0.58
3:DH:372:THR:HG21	3:DH:426:GLN:HB2	1.85	0.58
3:EF:330:MET:CG	3:EF:349:VAL:HG11	2.33	0.58
2:EG:390:ARG:O	2:EG:394:LYS:HG2	2.03	0.58
8:F3:253:ASP:OD1	8:F3:254:ILE:N	2.37	0.58
9:G1:271:ASP:HB3	9:G1:296:ARG:HH22	1.67	0.58
9:G1:303:GLU:N	9:G1:303:GLU:OE1	2.34	0.58
10:G5:633:GLU:HB3	10:G5:699:TRP:CZ2	2.38	0.58
3:GD:274:THR:HG21	3:GD:279:GLN:HG3	1.86	0.58
3:GD:286:VAL:HG21	3:GD:325:GLU:HG3	1.84	0.58
3:GF:170:VAL:N	3:GF:202:ILE:O	2.28	0.58
2:GG:33:ASP:OD1	2:GG:34:GLY:N	2.36	0.58
3:HF:309:ARG:NH1	3:HF:341:PHE:O	2.35	0.58
3:IF:292:GLN:O	3:IF:298:ASN:ND2	2.34	0.58
2:JE:306:ASP:OD2	2:JE:309:HIS:ND1	2.36	0.58
3:JH:141:GLY:HA3	25:JH:501:GTP:H5''	1.86	0.58
3:JH:152:ILE:HA	3:JH:155:ILE:HG12	1.86	0.58
3:JH:156:ARG:NH1	3:JH:195:ASN:O	2.33	0.58
14:K3:261:ARG:HD2	14:K3:264:TRP:CE3	2.38	0.58
14:K4:261:ARG:HE	14:K4:276:GLN:HA	1.68	0.58
2:KE:85:GLN:OE1	2:KE:85:GLN:N	2.25	0.58
2:KE:285:GLN:HE22	2:KE:287:SER:HB3	1.67	0.58
3:KF:282:ARG:NH2	3:KF:292:GLN:OE1	2.33	0.58
3:KF:374:ILE:HG23	3:KF:377:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:52:ASN:OD1	3:LF:62:ARG:NH1	2.36	0.58
2:LI:119:LEU:HA	2:LI:122:ILE:HG12	1.84	0.58
2:LI:415:GLU:HA	2:LI:418:PHE:HD2	1.68	0.58
2:MG:32:PRO:O	2:MG:85:GLN:NE2	2.36	0.58
2:MI:101:ASN:OD1	2:MI:144:GLY:HA2	2.03	0.58
3:ND:69:GLU:OE1	3:ND:72:THR:N	2.36	0.58
2:NG:318:LEU:O	2:NG:375:VAL:HA	2.03	0.58
19:P1:356:ILE:HB	19:P1:370:ILE:HD13	1.83	0.58
3:PH:8:GLN:NE2	3:PH:13:GLY:O	2.37	0.58
20:Q1:1446:LYS:HD3	20:Q1:1483:ILE:HG13	1.85	0.58
2:QE:427:ALA:HA	2:QE:430:LYS:HG2	1.84	0.58
3:QH:12:CYS:HA	25:QH:501:GTP:N2	2.18	0.58
3:RH:222:TYR:HA	3:RH:225:LEU:HD13	1.85	0.58
2:RI:196:GLU:OE1	2:RI:196:GLU:N	2.26	0.58
2:RI:285:GLN:NE2	2:RI:286:LEU:O	2.37	0.58
2:SE:171:ILE:HD12	2:SE:204:VAL:HG13	1.84	0.58
2:SE:214:ARG:NH1	2:SE:215:ARG:HG3	2.18	0.58
3:TF:104:GLY:HA2	3:TF:108:GLU:HB2	1.84	0.58
3:TF:415:MET:O	3:TF:419:VAL:HG23	2.04	0.58
3:TH:226:ASN:HA	3:TH:229:VAL:HG22	1.86	0.58
3:TJ:19:LYS:NZ	3:TJ:223:GLY:O	2.33	0.58
3:TJ:235:GLY:O	3:TJ:238:THR:OG1	2.22	0.58
3:TJ:375:GLN:HA	3:TJ:378:PHE:CE2	2.38	0.58
2:UE:172:TYR:N	2:UE:204:VAL:O	2.32	0.58
2:UE:204:VAL:HB	2:UE:209:ILE:HD11	1.85	0.58
3:UF:6:HIS:CE1	3:UF:8:GLN:HB2	2.39	0.58
3:VD:309:ARG:H	3:VD:372:THR:HG1	1.49	0.58
3:VD:324:LYS:HE2	2:VE:222:PRO:HD2	1.85	0.58
3:VF:36:TYR:HE2	3:VF:38:GLY:HA2	1.66	0.58
3:VF:316:VAL:HA	3:VF:352:ALA:O	2.03	0.58
2:WE:172:TYR:N	2:WE:204:VAL:O	2.29	0.58
23:XK:206:GLY:O	23:XK:210:GLN:NE2	2.37	0.58
24:YL:142:PRO:HA	24:YL:145:LEU:HB3	1.84	0.58
2:AE:360:PRO:HB2	2:AE:371:VAL:HG11	1.85	0.58
3:AH:324:LYS:HE2	2:AI:222:PRO:HG2	1.86	0.58
3:BF:357:PRO:O	3:BF:359:ARG:NH2	2.37	0.58
2:BG:216:ASN:HD21	2:BG:275:VAL:HG23	1.69	0.58
5:C7:155:PHE:O	5:C7:158:SER:OG	2.18	0.58
6:D3:88:THR:O	6:D4:346:LYS:NZ	2.32	0.58
2:DE:234:ILE:O	2:DE:237:SER:OG	2.18	0.58
2:EG:46:ASP:OD1	2:EG:50:ASN:ND2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:264:ARG:HG2	2:FE:265:ILE:N	2.18	0.58
3:GD:142:GLY:N	25:GD:501:GTP:O3B	2.37	0.58
3:GH:132:GLY:HA3	3:GH:163:ILE:O	2.04	0.58
25:GH:502:GTP:N1	2:GI:15:GLN:HG2	2.19	0.58
11:H3:212:LEU:HG	11:H3:213:ILE:HG12	1.86	0.58
3:HD:33:THR:O	3:HD:58:LYS:NZ	2.32	0.58
2:HI:377:MET:SD	2:HI:378:LEU:N	2.77	0.58
2:II:172:TYR:CD1	2:II:173:PRO:HD2	2.39	0.58
3:JF:6:HIS:HE1	3:JF:8:GLN:HE21	1.51	0.58
3:KD:176:SER:O	3:KD:178:THR:N	2.37	0.58
2:KE:398:MET:SD	2:KE:401:LYS:NZ	2.76	0.58
2:KG:178:SER:OG	2:KG:180:ALA:O	2.22	0.58
3:KH:302:ALA:HB1	3:KH:377:LEU:HD11	1.85	0.58
3:KH:383:GLU:OE2	3:KH:384:GLN:NE2	2.37	0.58
2:KI:1:MET:SD	2:KI:2:ARG:N	2.76	0.58
15:L2:92:THR:HA	3:LF:391:ARG:HD3	1.85	0.58
2:LG:212:ILE:HG13	2:LG:215:ARG:HH21	1.69	0.58
2:MG:55:GLU:HB2	2:MG:61:HIS:CD2	2.39	0.58
2:MG:435:VAL:HG13	18:O2:46:ARG:CZ	2.33	0.58
3:MH:4:ILE:HB	3:MH:50:TYR:HE1	1.69	0.58
3:NF:375:GLN:HA	3:NF:378:PHE:CE1	2.39	0.58
2:NG:274:PRO:HG3	2:NG:374:ALA:HA	1.84	0.58
3:NH:282:ARG:NH2	3:NH:292:GLN:OE1	2.34	0.58
2:OG:119:LEU:HA	2:OG:122:ILE:HG12	1.85	0.58
3:OH:226:ASN:HA	3:OH:229:VAL:HG22	1.85	0.58
3:OH:275:SER:N	3:OH:278:SER:OG	2.37	0.58
2:OI:202:PHE:HD1	2:OI:268:PRO:HD2	1.67	0.58
2:PE:312:TYR:HD1	2:PE:381:THR:HB	1.67	0.58
3:PF:156:ARG:NH1	3:PF:195:ASN:O	2.36	0.58
3:PH:406:MET:O	3:PH:409:THR:OG1	2.15	0.58
3:RH:412:GLU:HA	3:RH:415:MET:HG2	1.86	0.58
2:SG:192:HIS:CE1	2:SG:193:THR:HG23	2.38	0.58
2:TI:338:LYS:HZ3	2:TI:339:ARG:H	1.51	0.58
3:UH:252:LYS:O	3:UH:256:ASN:ND2	2.37	0.58
3:VF:77:ARG:HD2	3:VF:82:GLY:HA3	1.85	0.58
3:VF:318:ARG:HG2	3:VF:356:ILE:O	2.03	0.58
2:VG:105:ARG:NH1	2:VG:109:THR:OG1	2.37	0.58
2:VG:228:ASN:HA	2:VG:231:ILE:HG12	1.84	0.58
2:VG:236:SER:HA	2:VG:243:ARG:HH12	1.69	0.58
2:WE:260:VAL:HG13	3:WF:397:TRP:HH2	1.67	0.58
3:WH:127:CYS:SG	3:WH:130:LEU:HD21	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:1:MET:HG2	2:WI:2:ARG:N	2.18	0.58
2:WI:5:ILE:O	2:WI:135:PHE:HA	2.04	0.58
1:A3:28:GLU:HA	1:A3:31:ARG:HD3	1.85	0.58
3:AF:117:LEU:HD11	3:AF:154:LYS:HD2	1.86	0.58
4:B7:65:ALA:O	4:B7:68:ILE:HG22	2.03	0.58
4:B7:132:PRO:HB2	4:B7:268:ARG:HH22	1.69	0.58
5:C8:484:LEU:HD12	5:C8:485:ARG:H	1.68	0.58
3:DD:40:SER:O	3:DD:43:GLN:HG2	2.03	0.58
3:DD:53:GLU:HG2	11:H3:288:PHE:CZ	2.39	0.58
3:DD:111:GLU:OE1	3:DD:111:GLU:N	2.36	0.58
2:DE:358:GLN:NE2	2:DE:359:PRO:O	2.35	0.58
3:DF:211:CYS:HA	3:DF:215:LEU:HB2	1.86	0.58
2:DG:396:ASP:HA	2:DG:422:ARG:HH22	1.68	0.58
3:DH:12:CYS:HA	3:DH:15:GLN:NE2	2.18	0.58
3:EH:32:PRO:HG2	9:G2:499:PHE:HB3	1.86	0.58
3:EH:240:LEU:HD22	3:EH:248:ALA:HB1	1.85	0.58
8:F3:159:GLU:HA	8:F3:162:ARG:HH21	1.68	0.58
3:FF:52:ASN:OD1	3:FF:62:ARG:NH1	2.31	0.58
3:FH:36:TYR:CE2	3:FH:44:LEU:HD13	2.39	0.58
3:FH:117:LEU:HA	3:FH:120:VAL:HG22	1.84	0.58
3:FH:270:PHE:O	3:FH:298:ASN:ND2	2.37	0.58
9:G1:423:LEU:N	9:G1:507:ASP:OD1	2.36	0.58
9:G2:422:TYR:HB2	9:G2:440:PHE:HB2	1.84	0.58
3:GD:350:LYS:HD2	2:GE:180:ALA:HA	1.85	0.58
2:GE:208:ALA:HB2	2:GE:304:LYS:HE3	1.86	0.58
2:GG:54:SER:OG	2:GG:64:ARG:NE	2.35	0.58
11:H4:212:LEU:C	11:H4:214:GLN:N	2.56	0.58
3:HF:389:PHE:HZ	3:HF:405:GLU:HB3	1.68	0.58
2:HI:11:GLN:O	2:HI:14:VAL:HG12	2.03	0.58
2:II:25:CYS:O	2:II:30:ILE:N	2.37	0.58
13:J2:170:SER:HB3	13:J2:175:ILE:HG12	1.86	0.58
3:JD:289:LEU:O	3:JD:293:MET:HG2	2.04	0.58
2:JE:88:HIS:HE1	2:JE:90:GLU:HG2	1.69	0.58
2:JE:207:GLU:HB2	2:JE:304:LYS:NZ	2.18	0.58
2:KE:155:GLU:OE2	2:KE:197:HIS:ND1	2.37	0.58
3:KF:11:GLN:OE1	25:KF:501:GTP:N2	2.37	0.58
3:KF:252:LYS:HD3	2:KG:100:ALA:HA	1.85	0.58
3:LF:299:MET:HE1	3:LF:301:ALA:HB3	1.85	0.58
2:LG:99:ALA:H	2:LG:145:THR:HG22	1.68	0.58
3:MF:41:ASP:OD1	3:MF:42:LEU:N	2.37	0.58
3:MF:268:PRO:HD2	3:MF:301:ALA:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:117:LEU:O	2:NE:121:ARG:HG2	2.03	0.58
3:NF:21:TRP:HA	3:NF:24:ILE:HD12	1.86	0.58
2:NG:3:GLU:H	2:NG:133:GLN:HE22	1.51	0.58
3:OD:176:SER:O	3:OD:178:THR:N	2.37	0.58
3:OD:419:VAL:O	3:OD:423:GLN:NE2	2.36	0.58
19:P2:177:ALA:HB1	19:P2:208:VAL:HG21	1.86	0.58
19:P2:354:LYS:NZ	19:P2:374:ASN:HA	2.18	0.58
2:PE:419:SER:O	2:PE:422:ARG:HG2	2.03	0.58
3:PH:267:MET:SD	3:PH:301:ALA:HB3	2.43	0.58
2:PI:102:ASN:HB3	2:PI:105:ARG:HB3	1.85	0.58
2:PI:102:ASN:HD21	2:PI:411:GLU:HG2	1.69	0.58
21:R2:134:THR:N	21:R2:137:GLU:OE2	2.37	0.58
3:RF:337:ASN:HB2	3:RF:340:TYR:CD2	2.39	0.58
3:RJ:226:ASN:HA	3:RJ:229:VAL:HG22	1.86	0.58
2:SI:312:TYR:HE2	2:SI:341:ILE:HD12	1.69	0.58
3:TF:330:MET:HG3	3:TF:349:VAL:HG11	1.85	0.58
2:TG:211:ASP:O	2:TG:215:ARG:HG2	2.03	0.58
3:TJ:54:ALA:N	3:TJ:58:LYS:O	2.32	0.58
2:UE:90:GLU:HG2	2:UE:121:ARG:NH2	2.19	0.58
3:UF:41:ASP:OD1	3:UF:41:ASP:N	2.37	0.58
2:UG:196:GLU:OE1	2:UG:196:GLU:N	2.30	0.58
3:UH:155:ILE:HA	3:UH:158:GLU:HB2	1.85	0.58
3:UH:415:MET:O	3:UH:419:VAL:HG23	2.02	0.58
3:VF:325:GLU:OE1	3:VF:325:GLU:N	2.25	0.58
2:WE:102:ASN:HB3	2:WE:105:ARG:HB2	1.85	0.58
3:WF:12:CYS:SG	3:WF:13:GLY:N	2.77	0.58
2:WG:352:LYS:HZ1	3:WH:178:THR:HA	1.68	0.58
2:WI:425:LEU:O	2:WI:428:LEU:HG	2.03	0.58
22:XD:20:LYS:HG3	22:XD:23:GLN:OE1	2.03	0.58
24:YN:13:GLN:O	24:YN:16:LYS:HG2	2.03	0.58
2:AG:280:LYS:HZ3	2:MG:89:PRO:HB2	1.69	0.58
2:AI:322:ASP:O	2:AI:373:ARG:NH1	2.36	0.58
4:B8:333:GLN:OE1	4:B8:333:GLN:N	2.27	0.58
5:C3:389:LYS:O	5:C3:393:LEU:HG	2.04	0.58
5:C8:197:GLU:O	5:C8:201:HIS:HB2	2.04	0.58
3:CH:167:PHE:HD1	3:CH:200:TYR:HB2	1.69	0.58
3:CJ:16:ILE:HD13	3:CJ:226:ASN:HD22	1.67	0.58
3:DD:376:GLU:OE1	3:DD:376:GLU:N	2.22	0.58
3:FD:11:GLN:HG3	25:FD:501:GTP:PA	2.43	0.58
9:G1:245:PHE:HB2	9:G1:264:ILE:HB	1.85	0.58
10:G5:51:GLN:HG2	10:G5:53:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:H3:214:GLN:OE1	11:H3:215:ARG:NH1	2.37	0.58
3:HD:273:LEU:H	3:HD:292:GLN:HE22	1.50	0.58
3:HF:261:PRO:HD3	2:HG:406:HIS:CD2	2.38	0.58
12:I2:51:ASP:O	12:I2:55:THR:HG23	2.04	0.58
2:IE:208:ALA:H	2:IE:304:LYS:HZ1	1.52	0.58
2:IG:338:LYS:HZ2	2:IG:340:THR:H	1.50	0.58
2:IG:392:ASP:HB3	2:IG:425:LEU:HD23	1.86	0.58
13:J3:92:HIS:HA	13:J3:95:GLU:CD	2.24	0.58
13:J3:142:ILE:HG13	13:J3:144:PRO:HD3	1.83	0.58
3:JF:147:MET:HA	3:JF:147:MET:HE3	1.84	0.58
3:JH:11:GLN:HG3	25:JH:501:GTP:O5'	2.03	0.58
3:KF:330:MET:SD	3:KF:331:LEU:HD22	2.44	0.58
3:KF:350:LYS:HZ1	2:KG:181:VAL:HG13	1.69	0.58
15:L3:88:VAL:HG23	2:LI:264:ARG:CZ	2.34	0.58
3:LD:166:THR:O	3:LD:199:THR:HA	2.03	0.58
2:LI:208:ALA:H	2:LI:304:LYS:HZ1	1.50	0.58
3:MH:130:LEU:O	3:MH:162:ARG:NH1	2.36	0.58
3:MH:289:LEU:HD21	3:MH:363:MET:HG2	1.85	0.58
2:MI:212:ILE:HD11	2:MI:300:ASN:HA	1.86	0.58
3:NH:199:THR:HB	3:NH:264:HIS:O	2.03	0.58
3:OF:291:GLN:NE2	3:OF:295:ASP:OD1	2.36	0.58
3:OH:49:VAL:HG13	3:OH:50:TYR:HD1	1.69	0.58
2:OI:202:PHE:CD1	2:OI:268:PRO:HD2	2.38	0.58
2:PG:235:VAL:HA	2:PG:238:ILE:HG12	1.85	0.58
2:PG:415:GLU:OE2	2:PG:419:SER:OG	2.20	0.58
2:PI:318:LEU:O	2:PI:375:VAL:HA	2.03	0.58
20:Q1:1417:ARG:HE	20:Q1:1455:ARG:NH2	2.02	0.58
2:QE:12:ALA:O	25:QE:501:GTP:N1	2.37	0.58
2:QE:264:ARG:O	2:QE:266:HIS:ND1	2.36	0.58
2:QG:325:PRO:O	2:QG:329:ASN:ND2	2.37	0.58
3:RF:251:ARG:HE	3:RF:255:VAL:HG13	1.69	0.58
2:RG:32:PRO:O	2:RG:85:GLN:NE2	2.36	0.58
2:RG:234:ILE:O	2:RG:237:SER:OG	2.17	0.58
2:SI:33:ASP:OD1	2:SI:34:GLY:N	2.37	0.58
2:TI:67:PHE:HB2	2:TI:92:LEU:HD13	1.86	0.58
3:UH:198:GLU:HA	3:UH:266:PHE:CE2	2.37	0.58
3:UH:238:THR:HA	3:UH:241:ARG:HE	1.69	0.58
3:VD:412:GLU:HA	3:VD:415:MET:HG2	1.84	0.58
2:VG:196:GLU:OE1	2:VG:196:GLU:N	2.33	0.58
2:WE:207:GLU:HB2	2:WE:304:LYS:HZ1	1.68	0.58
2:WG:76:ASP:OD1	2:WG:79:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:310:GLY:HA3	2:WG:383:ALA:HB2	1.85	0.58
24:YJ:7:SER:O	24:YJ:10:SER:OG	2.22	0.58
24:YJ:23:PHE:HA	24:YJ:26:ILE:HD12	1.86	0.58
3:AF:330:MET:SD	3:AF:349:VAL:HG21	2.44	0.58
2:BE:208:ALA:H	2:BE:304:LYS:HZ1	1.52	0.58
2:BG:115:VAL:HG21	2:BG:156:ARG:HD3	1.86	0.58
5:C3:442:GLU:OE2	5:C3:446:GLN:NE2	2.37	0.58
5:C4:406:ARG:NH1	5:C4:412:CYS:H	2.02	0.58
3:CH:415:MET:O	3:CH:419:VAL:HG23	2.03	0.58
6:D3:232:THR:HG22	6:D3:235:SER:HB3	1.84	0.58
6:D4:363:ARG:NH1	6:D4:367:GLU:O	2.37	0.58
3:DH:12:CYS:HA	3:DH:15:GLN:HE22	1.68	0.58
3:DH:378:PHE:CD1	3:DH:419:VAL:HG22	2.38	0.58
3:ED:1:MET:SD	3:ED:2:ARG:N	2.77	0.58
3:ED:379:LYS:O	3:ED:382:SER:OG	2.16	0.58
3:ED:394:PHE:HA	3:ED:397:TRP:HZ3	1.69	0.58
3:EF:11:GLN:HG3	25:EF:501:GTP:O5'	2.04	0.58
3:EF:58:LYS:NZ	3:FF:280:GLN:O	2.37	0.58
3:FF:60:VAL:HG23	3:FF:86:ARG:HG3	1.85	0.58
2:FG:254:GLU:N	2:FG:254:GLU:OE1	2.36	0.58
9:G1:353:GLN:HA	9:G1:356:LYS:HD3	1.85	0.58
10:G5:25:HIS:CD2	10:G5:40:LYS:HG3	2.38	0.58
3:GD:245:GLN:NE2	25:GE:501:GTP:C5	2.68	0.58
2:GE:144:GLY:N	25:GE:501:GTP:O2B	2.36	0.58
3:GH:155:ILE:HA	3:GH:158:GLU:HB2	1.85	0.58
3:HF:267:MET:HB2	3:HF:301:ALA:HB3	1.85	0.58
2:HG:127:ASP:OD1	2:HG:128:LEU:N	2.37	0.58
3:HH:49:VAL:HG11	3:HH:241:ARG:HB3	1.85	0.58
3:IF:8:GLN:NE2	3:IF:136:THR:OG1	2.37	0.58
3:IH:178:THR:HB	3:IH:181:GLU:HB2	1.84	0.58
2:II:172:TYR:N	2:II:204:VAL:O	2.32	0.58
3:KD:68:LEU:HD12	3:KD:97:ALA:HB2	1.84	0.58
3:KD:180:VAL:HG13	3:KD:184:ASN:HD21	1.69	0.58
2:KE:250:VAL:HG21	2:KE:318:LEU:HD11	1.85	0.58
15:L2:152:GLY:HA2	2:MG:429:GLU:HB3	1.85	0.58
16:M2:54:THR:HG22	16:M2:55:ARG:HG2	1.86	0.58
2:ME:188:ILE:HG12	2:ME:421:ALA:HB1	1.86	0.58
3:MH:36:TYR:CE2	3:MH:44:LEU:HD13	2.38	0.58
2:MI:175:PRO:HB3	2:MI:390:ARG:HH11	1.68	0.58
2:NE:265:ILE:HB	2:NE:432:TYR:CE1	2.38	0.58
3:NF:269:GLY:O	3:NF:367:PHE:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:375:GLN:O	3:NF:379:LYS:HB2	2.04	0.58
3:NH:286:VAL:HG21	3:NH:325:GLU:HG3	1.85	0.58
2:OE:11:GLN:NE2	25:OE:501:GTP:O3A	2.37	0.58
3:OF:275:SER:N	3:OF:278:SER:OG	2.37	0.58
2:OI:54:SER:H	2:OI:62:VAL:H	1.50	0.58
2:OI:85:GLN:OE1	2:OI:85:GLN:N	2.34	0.58
19:P1:83:GLN:NE2	19:P1:92:ASP:OD2	2.37	0.58
19:P2:435:GLY:HA3	19:P2:464:VAL:HG11	1.86	0.58
3:PH:139:LEU:HD21	3:PH:170:VAL:HA	1.86	0.58
3:PH:172:SER:OG	3:PH:205:GLU:OE2	2.19	0.58
20:Q2:1432:GLU:HG2	20:Q2:1496:TYR:HE1	1.68	0.58
2:QE:53:PHE:CG	2:QE:61:HIS:HB3	2.39	0.58
2:QG:208:ALA:N	2:QG:304:LYS:HZ1	2.02	0.58
2:QI:287:SER:OG	2:QI:290:GLU:OE1	2.20	0.58
2:QI:390:ARG:HA	2:QI:393:HIS:CE1	2.38	0.58
2:RE:75:VAL:HG23	2:RE:92:LEU:HD12	1.84	0.58
3:RF:32:PRO:O	3:RF:83:GLN:NE2	2.28	0.58
3:RH:114:ASP:N	3:RH:114:ASP:OD1	2.37	0.58
3:RH:316:VAL:HG22	3:RH:352:ALA:HB3	1.85	0.58
2:SG:327:ASP:OD1	2:SG:328:VAL:N	2.35	0.58
2:SI:213:CYS:O	2:SI:218:ASP:N	2.37	0.58
2:SI:318:LEU:HB2	2:SI:376:CYS:HB3	1.86	0.58
3:SJ:72:THR:O	3:SJ:75:SER:OG	2.18	0.58
2:TI:89:PRO:HD3	2:UG:283:HIS:CE1	2.38	0.58
3:TJ:182:PRO:HA	3:TJ:381:ILE:HD11	1.86	0.58
2:UG:154:MET:HA	2:UG:157:LEU:HG	1.86	0.58
2:VE:32:PRO:O	2:VE:85:GLN:NE2	2.31	0.58
3:WF:375:GLN:N	3:WF:375:GLN:OE1	2.35	0.58
3:WH:164:MET:SD	3:WH:196:THR:HA	2.43	0.58
2:WI:109:THR:O	2:WI:112:LYS:NZ	2.36	0.58
22:XE:72:LYS:HE3	23:XL:62:ARG:HD2	1.85	0.58
24:YN:25:PHE:HD1	24:YN:65:ILE:HD12	1.69	0.58
2:AE:108:TYR:O	2:AE:112:LYS:NZ	2.29	0.58
2:AG:186:ASN:OD1	2:AG:187:SER:N	2.36	0.58
3:AH:2:ARG:HA	3:AH:129:CYS:O	2.04	0.58
2:AI:88:HIS:CE1	2:AI:121:ARG:HH22	2.21	0.58
3:CH:311:LEU:HD23	3:CH:342:VAL:HG11	1.86	0.58
3:CJ:77:ARG:O	3:CJ:77:ARG:NH1	2.31	0.58
3:DD:209:ASP:O	3:DD:213:ARG:HG2	2.03	0.58
3:DF:130:LEU:HB2	3:DF:162:ARG:HH11	1.68	0.58
3:DF:415:MET:O	3:DF:419:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DG:180:ALA:HB3	2:DG:183:GLU:HB2	1.86	0.58
7:E2:172:LEU:O	7:E2:175:ARG:NH1	2.37	0.58
3:ED:24:ILE:HG22	3:ED:28:HIS:HD2	1.69	0.58
3:ED:247:ASN:HB3	3:ED:252:LYS:HG2	1.85	0.58
3:EF:276:ARG:HD3	10:G5:406:CYS:SG	2.43	0.58
8:F7:379:GLU:HA	8:F7:382:ILE:HD12	1.85	0.58
8:F7:382:ILE:HD11	8:F7:434:LEU:HD21	1.85	0.58
3:FD:109:GLY:O	3:FD:113:VAL:HG13	2.04	0.58
3:FD:131:GLN:HA	3:FD:251:ARG:HH22	1.68	0.58
3:FF:209:ASP:O	3:FF:213:ARG:HG2	2.04	0.58
9:G2:127:GLU:OE1	9:G2:127:GLU:N	2.35	0.58
10:G5:630:ASN:C	10:G5:632:PHE:H	2.06	0.58
2:GG:316:CYS:SG	2:GG:378:LEU:HB3	2.43	0.58
11:H3:10:PHE:HA	11:H3:15:HIS:CE1	2.39	0.58
3:HD:374:ILE:HG22	3:HD:378:PHE:CD2	2.39	0.58
3:HF:150:LEU:HB3	3:HF:154:LYS:NZ	2.19	0.58
2:HG:42:ILE:HG21	2:HG:59:GLY:HA2	1.86	0.58
2:HI:293:ASN:HA	2:HI:296:PHE:CE2	2.38	0.58
3:IF:135:LEU:HD22	3:IF:151:LEU:HD11	1.84	0.58
2:IG:226:ASN:O	2:IG:229:ARG:HG2	2.03	0.58
3:IH:40:SER:HB2	3:IH:43:GLN:HG2	1.86	0.58
3:IH:379:LYS:O	3:IH:382:SER:OG	2.17	0.58
13:J3:27:SER:HB3	13:J3:100:ARG:HA	1.86	0.58
2:JE:224:TYR:CE1	25:JE:501:GTP:C5	2.90	0.58
3:JF:132:GLY:HA2	3:JF:162:ARG:HB3	1.86	0.58
3:JF:278:SER:O	3:JF:282:ARG:HB2	2.04	0.58
2:JG:308:ARG:NH2	2:JG:340:THR:O	2.36	0.58
3:JH:234:SER:O	3:JH:238:THR:HG23	2.04	0.58
3:JH:286:VAL:HG21	3:JH:325:GLU:HG3	1.86	0.58
14:K3:15:ARG:HE	14:K3:16:VAL:N	2.02	0.58
3:KD:325:GLU:HB3	2:KE:221:ARG:NH1	2.19	0.58
2:KE:258:ASN:HB3	2:KE:352:LYS:HG3	1.86	0.58
2:KE:415:GLU:OE1	2:KE:415:GLU:N	2.33	0.58
3:KH:347:ASN:HB3	2:KI:178:SER:HB3	1.86	0.58
15:L2:235:LYS:HA	15:L2:238:GLU:HG3	1.85	0.58
3:LH:142:GLY:N	25:LH:501:GTP:O3B	2.37	0.58
2:NE:186:ASN:HA	2:NE:189:LEU:HD12	1.84	0.58
3:OD:184:ASN:ND2	3:OD:398:TYR:OH	2.37	0.58
2:OG:27:GLU:OE2	2:OG:243:ARG:NH1	2.37	0.58
2:PE:272:TYR:CZ	2:PE:274:PRO:HG2	2.39	0.58
2:PG:192:HIS:HA	2:PG:195:LEU:HD23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:362:VAL:HA	2:PG:368:LEU:HD11	1.86	0.58
20:Q1:1354:LYS:HZ2	20:Q1:1435:SER:HB3	1.69	0.58
3:QF:415:MET:O	3:QF:419:VAL:HG23	2.04	0.58
3:QH:226:ASN:HA	3:QH:229:VAL:HG22	1.85	0.58
3:RH:41:ASP:HA	3:RH:44:LEU:HB3	1.85	0.58
3:SF:48:ASN:O	3:SF:62:ARG:NH2	2.32	0.58
3:UD:324:LYS:HE2	2:UE:222:PRO:HD2	1.86	0.58
3:UD:412:GLU:O	3:UD:416:ASN:ND2	2.37	0.58
2:VE:234:ILE:O	2:VE:237:SER:OG	2.20	0.58
2:VG:116:ASP:OD1	2:VG:117:LEU:N	2.37	0.58
3:VH:211:CYS:HA	3:VH:215:LEU:HB2	1.86	0.58
3:WF:3:GLU:HG2	3:WF:130:LEU:HD23	1.85	0.58
2:WG:144:GLY:N	25:WG:501:GTP:O2B	2.35	0.58
3:WH:284:LEU:HD21	3:WH:363:MET:H	1.68	0.58
2:WI:132:LEU:HD11	23:XL:71:HIS:CE1	2.39	0.58
23:XL:54:THR:OG1	23:XL:57:ARG:NH1	2.32	0.58
24:YI:143:ILE:HA	24:YI:146:ASP:OD2	2.03	0.58
1:A3:70:VAL:HB	1:A3:182:ILE:HD13	1.86	0.57
2:AI:311:LYS:HZ2	2:AI:342:GLN:HB3	1.69	0.57
3:BF:291:GLN:NE2	3:BF:295:ASP:OD2	2.37	0.57
3:BF:375:GLN:HA	3:BF:378:PHE:CE1	2.39	0.57
5:C8:309:LEU:HD23	5:C8:312:GLN:HE22	1.68	0.57
2:CG:234:ILE:O	2:CG:237:SER:OG	2.19	0.57
3:CH:374:ILE:HG23	3:CH:377:LEU:HD12	1.86	0.57
2:CI:212:ILE:HA	2:CI:215:ARG:HE	1.68	0.57
3:DD:69:GLU:OE1	3:DD:72:THR:N	2.37	0.57
3:DF:378:PHE:HA	3:DF:381:ILE:HG22	1.84	0.57
2:DG:254:GLU:OE1	2:DG:254:GLU:N	2.36	0.57
2:EE:16:ILE:HG23	25:EE:501:GTP:N2	2.18	0.57
3:EF:324:LYS:HE2	2:EG:222:PRO:HG2	1.85	0.57
8:F3:105:ASN:OD1	8:F3:106:ALA:N	2.37	0.57
8:F3:153:LYS:HD2	8:F3:254:ILE:HD11	1.85	0.57
8:F6:160:LEU:HD21	8:F6:250:LEU:HB3	1.84	0.57
10:G5:436:TYR:HE1	10:G5:529:THR:HG21	1.69	0.57
10:G5:671:ASP:HA	10:G5:674:LEU:HD12	1.85	0.57
11:H4:256:HIS:HB3	11:H4:257:PRO:CD	2.34	0.57
3:HF:323:MET:HE1	2:HG:224:TYR:HB2	1.86	0.57
3:HH:328:GLU:OE1	3:HH:332:ASN:ND2	2.37	0.57
2:HI:320:ARG:HD3	2:HI:360:PRO:HG3	1.86	0.57
2:HI:430:LYS:O	2:HI:433:GLU:HG3	2.04	0.57
2:IE:399:TYR:OH	2:IE:415:GLU:OE1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:328:GLU:OE2	3:IH:329:GLN:NE2	2.35	0.57
2:JE:190:THR:O	2:JE:194:THR:OG1	2.14	0.57
2:JE:254:GLU:N	2:JE:254:GLU:OE1	2.34	0.57
2:JG:145:THR:OG1	25:JG:501:GTP:O1B	2.22	0.57
3:JH:380:ARG:O	3:JH:384:GLN:HG2	2.04	0.57
14:K3:392:LYS:O	14:K3:393:LEU:C	2.40	0.57
14:K4:144:GLN:NE2	14:K4:148:ASN:OD1	2.37	0.57
3:KF:173:PRO:O	3:KF:380:ARG:NH2	2.37	0.57
3:KH:261:PRO:O	3:KH:264:HIS:NE2	2.37	0.57
15:L2:174:ASN:ND2	15:L2:177:GLN:OE1	2.37	0.57
2:LI:32:PRO:O	2:LI:85:GLN:NE2	2.36	0.57
2:NE:32:PRO:O	2:NE:85:GLN:NE2	2.34	0.57
3:NH:217:LEU:O	3:NH:219:THR:N	2.35	0.57
2:NI:67:PHE:HB2	2:NI:92:LEU:HD13	1.84	0.57
2:OE:318:LEU:O	2:OE:375:VAL:HA	2.04	0.57
3:OH:5:VAL:HG11	3:OH:123:GLU:HG2	1.86	0.57
3:PF:7:LEU:HD13	3:PF:64:VAL:HB	1.86	0.57
2:PG:79:ARG:O	2:PG:84:ARG:HD2	2.03	0.57
20:Q1:1489:GLU:HA	20:Q1:1492:HIS:CD2	2.37	0.57
2:QE:172:TYR:N	2:QE:204:VAL:O	2.32	0.57
2:QG:234:ILE:HD11	2:QG:272:TYR:HB2	1.86	0.57
3:QH:37:HIS:HA	24:YL:64:ARG:HH12	1.69	0.57
2:QI:320:ARG:HA	2:QI:356:ASN:OD1	2.03	0.57
2:RE:202:PHE:CE1	2:RE:268:PRO:HD2	2.37	0.57
3:RH:8:GLN:OE1	3:RH:17:GLY:HA3	2.04	0.57
3:RH:86:ARG:HE	3:RH:87:PRO:HD2	1.68	0.57
3:SF:111:GLU:N	3:SF:111:GLU:OE1	2.37	0.57
2:SG:271:THR:HB	2:SG:377:MET:HB2	1.85	0.57
3:SH:117:LEU:HA	3:SH:120:VAL:HG22	1.86	0.57
2:TG:390:ARG:HA	2:TG:393:HIS:CD2	2.39	0.57
3:UD:117:LEU:HA	3:UD:120:VAL:HG12	1.86	0.57
2:UG:1:MET:O	2:UG:133:GLN:NE2	2.37	0.57
2:VG:206:ASN:O	2:VG:209:ILE:HG22	2.04	0.57
3:VH:11:GLN:HE21	25:VH:501:GTP:H3'	1.66	0.57
3:VH:234:SER:O	3:VH:238:THR:HG23	2.03	0.57
3:VH:246:LEU:HD12	3:VH:352:ALA:HB1	1.85	0.57
22:XD:37:ILE:HD11	23:XJ:199:GLN:HG3	1.86	0.57
22:XD:177:LEU:HB3	22:XD:181:PHE:HB2	1.86	0.57
22:XE:79:ILE:HG23	22:XE:131:GLN:HE22	1.69	0.57
24:YN:8:LEU:HD21	24:YN:148:MET:HE3	1.84	0.57
3:AF:31:ASP:OD2	3:AF:33:THR:OG1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B2:312:LYS:HG2	4:B3:201:LEU:HD21	1.86	0.57
4:B8:302:GLU:HG2	4:B8:306:ARG:HH22	1.69	0.57
2:BG:235:VAL:HA	2:BG:238:ILE:HG12	1.87	0.57
2:BI:285:GLN:HE22	2:BI:287:SER:HB3	1.69	0.57
5:C2:153:LEU:HB3	5:C2:265:LEU:HD11	1.85	0.57
2:CG:229:ARG:NH2	2:CG:367:ASP:HB2	2.13	0.57
3:CH:246:LEU:HD12	3:CH:352:ALA:HB1	1.86	0.57
3:DD:218:THR:OG1	3:DD:219:THR:N	2.36	0.57
3:DF:278:SER:HA	3:DF:281:TYR:HB2	1.85	0.57
2:EG:415:GLU:OE1	2:EG:415:GLU:N	2.34	0.57
3:FD:133:PHE:CZ	3:FD:164:MET:HG2	2.39	0.57
2:FE:75:VAL:HG21	2:FE:94:THR:HB	1.86	0.57
2:FE:188:ILE:HG22	2:FE:421:ALA:HB1	1.86	0.57
3:FH:54:ALA:HA	3:GH:283:ALA:HB2	1.86	0.57
9:G2:385:ASN:HD21	9:G2:387:TYR:HB3	1.69	0.57
10:G5:504:ALA:H	10:G5:539:LYS:HZ3	1.51	0.57
3:GD:5:VAL:HB	3:GD:133:PHE:CD1	2.39	0.57
3:GD:15:GLN:HG3	3:GD:222:TYR:CE1	2.39	0.57
3:GD:39:ASP:OD1	3:GD:43:GLN:NE2	2.37	0.57
3:GD:111:GLU:HG2	3:GD:112:LEU:HD12	1.86	0.57
2:GE:127:ASP:OD1	2:GE:128:LEU:N	2.37	0.57
2:GE:313:MET:HE1	2:GE:382:THR:HG23	1.86	0.57
2:GI:66:VAL:HA	2:GI:91:GLN:HG2	1.86	0.57
3:HD:247:ASN:HB3	3:HD:252:LYS:HG2	1.86	0.57
2:HE:239:THR:OG1	2:HE:243:ARG:NH1	2.36	0.57
2:IE:320:ARG:HD3	2:IE:360:PRO:HG3	1.86	0.57
2:IE:362:VAL:HA	2:IE:368:LEU:HD11	1.86	0.57
2:IG:50:ASN:OD1	2:IG:51:THR:N	2.37	0.57
3:IH:304:ASP:O	3:IH:307:HIS:ND1	2.35	0.57
3:JH:33:THR:O	3:JH:58:LYS:NZ	2.37	0.57
14:K2:181:LEU:HA	14:K2:184:TYR:HD1	1.68	0.57
14:K3:218:GLU:HG3	21:R2:269:ALA:HB2	1.86	0.57
14:K3:271:PRO:HD2	24:YK:160:ARG:HH12	1.69	0.57
2:KG:416:GLY:O	2:KG:420:GLU:HG2	2.04	0.57
3:KH:252:LYS:O	3:KH:256:ASN:ND2	2.37	0.57
2:LG:87:PHE:HB3	2:LG:92:LEU:HD21	1.85	0.57
2:LI:88:HIS:CE1	2:LI:121:ARG:HH22	2.22	0.57
2:LI:90:GLU:N	2:LI:90:GLU:OE1	2.35	0.57
2:ME:1:MET:SD	2:ME:2:ARG:N	2.77	0.57
3:MH:210:ILE:HA	3:MH:213:ARG:HD3	1.85	0.57
3:ND:51:TYR:HD2	3:ND:59:TYR:HB3	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:172:SER:OG	3:ND:205:GLU:OE2	2.18	0.57
2:OE:370:LYS:O	2:OE:372:GLN:NE2	2.36	0.57
2:OG:178:SER:OG	2:OG:180:ALA:O	2.22	0.57
3:OH:152:ILE:HA	3:OH:155:ILE:HG12	1.85	0.57
2:OI:88:HIS:HB3	2:OI:91:GLN:HB3	1.86	0.57
2:OI:175:PRO:HB3	2:OI:390:ARG:HD2	1.85	0.57
19:P1:97:ASP:HB3	19:P1:100:LYS:HG2	1.86	0.57
19:P1:224:THR:HG1	19:P1:226:THR:HG1	1.50	0.57
19:P1:417:ARG:NH2	2:WE:364:PRO:O	2.37	0.57
3:PF:211:CYS:HA	3:PF:215:LEU:HD13	1.86	0.57
2:QG:84:ARG:HH12	24:YI:124:HIS:HA	1.69	0.57
2:QI:285:GLN:HE22	2:QI:287:SER:HB3	1.69	0.57
2:RG:215:ARG:NH2	2:RG:300:ASN:HD21	2.02	0.57
2:RI:22:GLU:HG2	2:RI:83:TYR:CE2	2.40	0.57
3:SH:324:LYS:HD3	2:SI:210:TYR:CE1	2.38	0.57
2:SI:220:GLU:O	2:SI:221:ARG:NE	2.36	0.57
3:TJ:131:GLN:HB3	3:TJ:163:ILE:HD12	1.86	0.57
3:TJ:292:GLN:O	3:TJ:298:ASN:ND2	2.33	0.57
3:UD:246:LEU:HB3	3:UD:353:VAL:H	1.68	0.57
2:UE:286:LEU:HD11	2:UE:372:GLN:H	1.69	0.57
3:UF:119:VAL:O	3:UF:122:LYS:HG3	2.03	0.57
3:VD:246:LEU:HD12	3:VD:352:ALA:HB1	1.86	0.57
2:VE:216:ASN:ND2	2:VE:275:VAL:O	2.37	0.57
3:VF:388:MET:HA	3:VF:388:MET:HE3	1.85	0.57
3:VF:426:GLN:NE2	3:VF:427:ASP:OD1	2.37	0.57
2:VG:88:HIS:HB3	2:VG:91:GLN:HG2	1.86	0.57
2:WG:121:ARG:HD2	22:XD:6:PHE:HZ	1.69	0.57
2:WG:280:LYS:O	2:WG:284:GLU:HB2	2.04	0.57
2:WG:306:ASP:OD2	2:WG:309:HIS:N	2.34	0.57
2:WI:29:GLY:O	2:WI:31:GLN:NE2	2.36	0.57
22:XC:73:LEU:HD22	22:XC:169:ASP:HB3	1.85	0.57
22:XC:92:GLN:HE22	22:XC:152:LEU:HD12	1.69	0.57
24:YL:30:GLU:O	24:YL:33:ARG:N	2.36	0.57
3:AF:28:HIS:O	3:AF:43:GLN:NE2	2.37	0.57
3:AF:91:VAL:HG11	3:AF:116:VAL:HG12	1.85	0.57
2:AG:102:ASN:HD22	2:AG:105:ARG:HG3	1.68	0.57
2:AG:338:LYS:NZ	2:AG:339:ARG:H	2.02	0.57
3:BF:180:VAL:HG22	3:BF:183:TYR:HB2	1.86	0.57
3:BH:163:ILE:HD11	3:BH:251:ARG:HB2	1.86	0.57
5:C3:205:ARG:NH2	5:C3:216:GLU:OE2	2.37	0.57
2:CG:317:MET:HE2	2:CG:319:TYR:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:46:ARG:HH22	2:CI:73:THR:HG23	1.70	0.57
6:D2:29:VAL:O	6:D2:33:THR:OG1	2.21	0.57
6:D3:255:GLU:OE1	6:D3:255:GLU:N	2.30	0.57
6:D4:315:LEU:HD23	6:D4:318:LEU:HD12	1.87	0.57
3:DF:265:PHE:O	3:DF:370:ASN:ND2	2.37	0.57
3:FD:372:THR:HA	3:FD:375:GLN:HE22	1.69	0.57
2:FE:178:SER:OG	2:FE:180:ALA:O	2.22	0.57
3:HD:31:ASP:OD1	3:HD:35:THR:N	2.37	0.57
3:HF:84:ILE:O	3:HF:86:ARG:NH1	2.37	0.57
3:HF:271:ALA:HB1	3:HF:272:PRO:HD2	1.85	0.57
3:HH:86:ARG:NE	3:HH:86:ARG:HA	2.18	0.57
3:IF:249:ASP:HB3	3:IF:252:LYS:HG2	1.85	0.57
2:IG:257:THR:HA	3:IH:397:TRP:CZ2	2.39	0.57
3:IH:378:PHE:CD1	3:IH:419:VAL:HG22	2.39	0.57
3:JD:68:LEU:HD12	3:JD:97:ALA:HB2	1.85	0.57
3:JD:330:MET:HG3	3:JD:349:VAL:HG11	1.86	0.57
2:JE:264:ARG:O	2:JE:266:HIS:ND1	2.37	0.57
3:KD:2:ARG:NH1	3:KD:240:LEU:HB3	2.19	0.57
2:KG:2:ARG:HG2	2:KG:242:LEU:HD23	1.86	0.57
2:KG:175:PRO:HG2	2:KG:304:LYS:HD3	1.86	0.57
15:L2:203:ASN:HA	15:L2:206:GLU:HG2	1.86	0.57
3:MF:376:GLU:HG2	3:MF:377:LEU:HD12	1.85	0.57
3:MH:346:PRO:HG2	2:MI:394:LYS:HE2	1.85	0.57
2:MI:239:THR:OG1	2:MI:243:ARG:NH1	2.37	0.57
2:MI:338:LYS:HZ2	2:MI:340:THR:H	1.51	0.57
2:NG:395:PHE:HE2	2:NG:422:ARG:HB3	1.69	0.57
3:OD:235:GLY:O	3:OD:238:THR:OG1	2.21	0.57
2:OI:103:TYR:HD2	2:OI:147:SER:HB2	1.70	0.57
19:P1:158:VAL:HG11	19:P1:181:THR:HB	1.84	0.57
19:P1:297:THR:O	19:P1:305:PHE:HB2	2.05	0.57
3:PF:28:HIS:O	3:PF:43:GLN:NE2	2.38	0.57
2:QE:89:PRO:HD2	2:RE:280:LYS:HZ3	1.69	0.57
2:QE:285:GLN:NE2	2:QE:286:LEU:O	2.37	0.57
3:QF:11:GLN:HG3	25:QF:501:GTP:PA	2.44	0.57
3:QF:169:VAL:HA	3:QF:202:ILE:HB	1.86	0.57
3:QH:11:GLN:HE21	25:QH:501:GTP:H3'	1.69	0.57
2:RE:85:GLN:OE1	2:RE:85:GLN:N	2.29	0.57
2:RG:1:MET:O	2:RG:133:GLN:NE2	2.38	0.57
2:RG:217:LEU:HB3	2:RG:219:ILE:HG12	1.86	0.57
2:RI:141:PHE:HB2	2:RI:173:PRO:HD3	1.84	0.57
2:SE:168:GLU:OE1	2:SE:198:SER:OG	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:399:TYR:HE2	2:SE:418:PHE:HB3	1.70	0.57
2:SI:207:GLU:HB2	2:SI:304:LYS:HZ1	1.69	0.57
2:SI:334:THR:O	2:SI:337:THR:OG1	2.20	0.57
3:SJ:317:PHE:HE2	3:SJ:326:VAL:HG23	1.68	0.57
3:TF:235:GLY:O	3:TF:238:THR:OG1	2.21	0.57
2:TI:160:ASP:OD1	2:TI:161:TYR:N	2.37	0.57
3:TJ:316:VAL:HA	3:TJ:352:ALA:O	2.04	0.57
3:UD:316:VAL:HB	3:UD:366:THR:HG22	1.85	0.57
2:UE:208:ALA:N	2:UE:304:LYS:HZ1	2.02	0.57
2:VE:329:ASN:HA	2:VE:332:ILE:HG12	1.85	0.57
3:VF:28:HIS:CE1	3:VF:47:ILE:HD13	2.40	0.57
3:VF:117:LEU:HA	3:VF:120:VAL:HG22	1.84	0.57
3:VF:119:VAL:O	3:VF:122:LYS:HG2	2.04	0.57
3:VF:132:GLY:HA2	3:VF:162:ARG:HB3	1.86	0.57
3:VF:191:GLN:O	3:VF:195:ASN:ND2	2.38	0.57
2:WE:285:GLN:NE2	2:WE:286:LEU:O	2.37	0.57
3:WF:151:LEU:O	3:WF:155:ILE:HG12	2.05	0.57
3:WH:173:PRO:O	3:WH:380:ARG:NH2	2.38	0.57
22:XC:79:ILE:HG13	22:XC:131:GLN:HE22	1.69	0.57
23:XJ:76:ASN:HB2	23:XJ:113:ARG:NH2	2.19	0.57
23:XL:201:LYS:HD2	23:XL:202:ARG:NH1	2.19	0.57
23:XL:222:GLU:N	23:XL:222:GLU:OE1	2.37	0.57
24:YI:116:LYS:NZ	24:YI:117:TYR:O	2.36	0.57
24:YJ:77:SER:HA	24:YJ:80:CYS:SG	2.44	0.57
24:YN:130:ALA:HA	24:YN:134:TYR:HB2	1.85	0.57
2:AE:144:GLY:N	25:AE:501:GTP:O2B	2.36	0.57
3:AH:209:ASP:O	3:AH:213:ARG:HG2	2.05	0.57
2:AI:285:GLN:NE2	2:AI:286:LEU:O	2.37	0.57
5:C3:195:SER:O	5:C3:198:CYS:HB2	2.04	0.57
6:D3:247:PHE:HB3	6:D4:357:LEU:HD21	1.86	0.57
3:DD:40:SER:HB2	3:DD:43:GLN:HG2	1.87	0.57
3:EF:203:ASP:HB3	3:EF:301:ALA:O	2.05	0.57
3:EH:377:LEU:HD12	3:EH:377:LEU:H	1.69	0.57
8:F7:229:MET:HA	8:F7:232:LEU:HD12	1.86	0.57
2:FG:217:LEU:HD21	2:FG:275:VAL:HB	1.86	0.57
10:G5:635:PHE:CD2	10:G5:698:ASN:HA	2.39	0.57
3:GD:322:SER:OG	3:GD:324:LYS:NZ	2.36	0.57
2:GE:277:SER:OG	2:GE:280:LYS:HG2	2.04	0.57
3:GF:415:MET:O	3:GF:419:VAL:HG23	2.04	0.57
3:GH:50:TYR:O	3:GH:62:ARG:NE	2.37	0.57
3:GH:226:ASN:HA	3:GH:229:VAL:HG12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:H4:299:THR:HG23	11:H4:302:ASN:H	1.69	0.57
2:HE:125:LEU:HD13	2:HE:128:LEU:HD21	1.86	0.57
3:IH:111:GLU:N	3:IH:111:GLU:OE1	2.37	0.57
3:IH:211:CYS:SG	3:IH:220:PRO:HG3	2.44	0.57
2:II:245:ASP:HB2	2:II:357:TYR:HE2	1.69	0.57
2:JG:6:SER:OG	2:JG:8:HIS:NE2	2.35	0.57
2:JG:145:THR:HG23	25:JG:501:GTP:O3B	2.04	0.57
14:K2:194:LYS:HZ3	14:K3:16:VAL:HG13	1.68	0.57
14:K2:371:MET:HB2	14:K2:422:LEU:HD11	1.86	0.57
3:KD:135:LEU:HD21	3:KD:151:LEU:HD11	1.87	0.57
2:KE:189:LEU:HA	2:KE:192:HIS:CE1	2.40	0.57
2:KI:1:MET:HG3	2:KI:130:THR:OG1	2.05	0.57
3:LD:167:PHE:HD1	3:LD:200:TYR:HB2	1.69	0.57
3:LD:245:GLN:NE2	2:LE:15:GLN:NE2	2.52	0.57
2:LG:31:GLN:N	2:LG:31:GLN:OE1	2.37	0.57
2:LG:160:ASP:OD1	2:LG:161:TYR:N	2.38	0.57
2:LG:287:SER:OG	2:LG:290:GLU:OE1	2.19	0.57
3:LH:247:ASN:HB3	3:LH:252:LYS:HG3	1.85	0.57
3:MH:2:ARG:HG2	3:MH:131:GLN:NE2	2.19	0.57
3:MH:204:ASN:HA	3:MH:207:LEU:HD12	1.85	0.57
2:MI:119:LEU:O	2:MI:123:ARG:HG2	2.05	0.57
3:NF:305:PRO:HA	3:NF:373:ALA:HB2	1.87	0.57
2:NI:12:ALA:O	25:NI:501:GTP:N1	2.38	0.57
2:OE:216:ASN:OD1	2:OE:217:LEU:N	2.36	0.57
3:OF:83:GLN:OE1	3:OF:83:GLN:N	2.33	0.57
2:PE:167:LEU:HB3	2:PE:169:PHE:CZ	2.39	0.57
2:PG:1:MET:O	2:PG:133:GLN:NE2	2.37	0.57
3:PH:268:PRO:HD2	3:PH:301:ALA:HB2	1.85	0.57
3:QF:30:ILE:HA	3:QF:36:TYR:HA	1.86	0.57
3:RF:11:GLN:HE21	25:RF:501:GTP:H3'	1.70	0.57
2:RI:54:SER:HB2	2:RI:62:VAL:HB	1.85	0.57
3:RJ:100:ASN:OD1	3:RJ:103:LYS:N	2.33	0.57
2:SE:90:GLU:HG2	2:SE:121:ARG:CZ	2.35	0.57
2:SE:258:ASN:HB2	2:SE:352:LYS:HE3	1.86	0.57
3:SF:21:TRP:CZ2	3:SF:63:ALA:HB2	2.38	0.57
2:SG:172:TYR:N	2:SG:204:VAL:O	2.28	0.57
2:SG:402:ARG:NH2	2:SG:415:GLU:OE2	2.33	0.57
2:TG:68:VAL:HG12	2:TG:93:ILE:HB	1.84	0.57
2:TG:82:THR:HA	2:TG:84:ARG:HH11	1.69	0.57
2:TG:279:GLU:O	2:TG:283:HIS:HD2	1.88	0.57
3:UD:190:HIS:HE1	3:UD:410:GLU:HG3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:144:GLY:N	25:UE:501:GTP:O2B	2.37	0.57
3:UF:104:GLY:HA2	3:UF:108:GLU:HB2	1.86	0.57
3:UH:31:ASP:OD2	3:UH:33:THR:OG1	2.21	0.57
3:VD:132:GLY:HA2	3:VD:162:ARG:HB3	1.86	0.57
2:VG:187:SER:O	2:VG:191:THR:HG23	2.03	0.57
3:VH:14:ASN:ND2	3:VH:67:ASP:OD2	2.31	0.57
3:VH:316:VAL:HG22	3:VH:352:ALA:HB3	1.87	0.57
2:WE:11:GLN:HG3	25:WE:501:GTP:PG	2.43	0.57
3:WF:46:ARG:NH2	2:WG:73:THR:HG23	2.19	0.57
3:WF:224:ASP:O	3:WF:227:HIS:HB3	2.04	0.57
2:WG:91:GLN:HB3	2:WG:121:ARG:HH21	1.69	0.57
3:WH:278:SER:HA	3:WH:281:TYR:HB2	1.85	0.57
2:WI:15:GLN:OE1	2:WI:15:GLN:N	2.35	0.57
23:XK:201:LYS:HE3	23:XK:203:GLU:HG3	1.85	0.57
24:YI:127:CYS:O	24:YI:131:ARG:NH1	2.37	0.57
24:YK:103:LEU:HD22	24:YK:110:LEU:HD21	1.85	0.57
24:YL:50:GLN:HG3	24:YL:53:MET:HE3	1.86	0.57
2:AE:156:ARG:HA	2:AE:159:VAL:HG22	1.87	0.57
4:B3:7:LYS:HA	6:D4:326:LEU:HD11	1.85	0.57
2:BG:8:HIS:CD2	2:BG:138:PHE:HD2	2.22	0.57
2:BG:12:ALA:HB2	25:BG:501:GTP:H5''	1.86	0.57
2:BG:333:ALA:O	2:BG:337:THR:HG23	2.05	0.57
2:BG:338:LYS:NZ	2:BG:339:ARG:H	2.02	0.57
2:BI:306:ASP:OD2	2:BI:308:ARG:HG2	2.05	0.57
2:CG:174:ALA:HB3	2:CG:177:VAL:O	2.03	0.57
2:CI:396:ASP:OD1	2:CI:397:LEU:N	2.38	0.57
3:CJ:375:GLN:HE21	3:CJ:422:TYR:HB3	1.70	0.57
6:D3:205:ARG:NH1	7:E2:137:MET:SD	2.77	0.57
2:DE:3:GLU:N	2:DE:133:GLN:OE1	2.35	0.57
2:DE:260:VAL:O	3:DF:397:TRP:HH2	1.87	0.57
3:DF:239:CYS:SG	3:DF:248:ALA:HB2	2.45	0.57
3:DH:240:LEU:HD22	3:DH:248:ALA:HB1	1.86	0.57
3:ED:215:LEU:O	3:ED:276:ARG:NH1	2.37	0.57
2:EG:371:VAL:HG11	2:EG:374:ALA:HB2	1.87	0.57
3:FD:172:SER:HB3	3:FD:175:VAL:O	2.04	0.57
3:FH:278:SER:HA	3:FH:281:TYR:HB2	1.86	0.57
3:FH:407:GLU:O	3:FH:410:GLU:HG3	2.04	0.57
3:GF:69:GLU:OE1	3:GF:72:THR:N	2.36	0.57
3:GF:324:LYS:HE2	2:GG:222:PRO:HG2	1.86	0.57
2:GI:208:ALA:H	2:GI:304:LYS:HZ1	1.50	0.57
11:H4:38:THR:O	11:H4:42:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:157:GLU:N	3:HF:157:GLU:OE1	2.38	0.57
3:HH:374:ILE:HA	3:HH:377:LEU:HD12	1.86	0.57
2:IG:27:GLU:OE2	2:IG:28:HIS:ND1	2.37	0.57
2:JE:117:LEU:O	2:JE:121:ARG:HG2	2.04	0.57
3:JH:130:LEU:O	3:JH:162:ARG:NH1	2.38	0.57
14:K2:344:LEU:HA	14:K2:347:LYS:HE3	1.86	0.57
3:KH:328:GLU:OE2	3:KH:329:GLN:NE2	2.37	0.57
2:KI:155:GLU:O	2:KI:158:SER:OG	2.19	0.57
15:L2:26:ARG:NH1	15:L2:27:TYR:O	2.37	0.57
15:L2:190:ASP:O	15:L2:193:ARG:N	2.37	0.57
15:L3:32:ARG:NH1	15:L3:32:ARG:HA	2.20	0.57
3:LD:190:HIS:HE1	3:LD:410:GLU:HG3	1.69	0.57
2:LE:230:LEU:O	2:LE:234:ILE:HG12	2.04	0.57
2:MG:336:LYS:O	18:O2:26:ARG:NH2	2.38	0.57
3:MH:205:GLU:HA	3:MH:208:TYR:HD2	1.69	0.57
3:MH:292:GLN:O	3:MH:298:ASN:ND2	2.34	0.57
2:NE:254:GLU:O	2:NE:258:ASN:ND2	2.30	0.57
2:NE:256:GLN:O	2:NE:260:VAL:HG12	2.05	0.57
3:NH:12:CYS:O	3:NH:16:ILE:HG12	2.04	0.57
2:NI:137:ILE:N	2:NI:167:LEU:O	2.35	0.57
2:PE:53:PHE:HB3	2:PE:61:HIS:HB3	1.87	0.57
2:PE:54:SER:H	2:PE:62:VAL:H	1.51	0.57
2:PE:176:GLN:NE2	2:PE:207:GLU:OE2	2.37	0.57
2:PG:272:TYR:CZ	2:PG:274:PRO:HG2	2.40	0.57
2:PI:160:ASP:OD1	2:PI:161:TYR:N	2.37	0.57
3:QF:4:ILE:HD11	3:QF:131:GLN:HB2	1.87	0.57
2:QG:70:LEU:HD13	2:QG:95:GLY:HA3	1.87	0.57
3:QH:47:ILE:HG12	3:QH:59:TYR:CD2	2.39	0.57
3:QH:130:LEU:HB2	3:QH:162:ARG:HH11	1.70	0.57
2:RG:55:GLU:HB2	2:RG:61:HIS:CD2	2.40	0.57
3:RH:334:GLN:O	3:RH:338:SER:OG	2.12	0.57
2:RI:302:MET:N	2:RI:302:MET:SD	2.62	0.57
2:SG:120:ASP:OD1	2:SG:123:ARG:NH1	2.37	0.57
3:SH:104:GLY:HA2	3:SH:108:GLU:HB2	1.87	0.57
3:SJ:300:MET:N	3:SJ:300:MET:SD	2.78	0.57
3:TH:12:CYS:HA	25:TH:501:GTP:N2	2.19	0.57
3:UD:412:GLU:HA	3:UD:415:MET:HG3	1.86	0.57
3:UF:235:GLY:O	3:UF:238:THR:OG1	2.16	0.57
3:UH:167:PHE:HA	3:UH:200:TYR:HB2	1.86	0.57
3:UH:266:PHE:HB3	3:UH:368:ILE:HD11	1.87	0.57
3:UH:378:PHE:O	3:UH:381:ILE:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:19:LYS:NZ	3:VD:223:GLY:O	2.37	0.57
2:VE:102:ASN:HD21	2:VE:411:GLU:HG2	1.69	0.57
3:VH:260:PHE:HB2	3:VH:263:LEU:HD23	1.87	0.57
3:WF:5:VAL:HB	3:WF:133:PHE:HD1	1.69	0.57
3:WH:109:GLY:O	3:WH:113:VAL:HG13	2.04	0.57
3:WH:337:ASN:HD22	3:WH:340:TYR:HD2	1.53	0.57
2:WI:180:ALA:HB1	2:WI:182:VAL:HG12	1.87	0.57
1:A2:384:TYR:HB2	5:C3:467:TYR:OH	2.04	0.57
4:B3:85:LEU:HD11	4:B3:172:LEU:HD12	1.86	0.57
4:B3:203:VAL:O	4:B3:207:ARG:NH2	2.38	0.57
4:B7:380:LYS:O	4:B7:383:THR:OG1	2.20	0.57
2:BG:219:ILE:O	2:BG:222:PRO:HD3	2.03	0.57
2:BI:90:GLU:OE2	2:CI:280:LYS:NZ	2.34	0.57
5:C2:284:PHE:HE1	5:C3:398:THR:HA	1.68	0.57
5:C3:365:LEU:HD13	5:C3:455:LEU:HD11	1.87	0.57
2:CG:317:MET:CE	2:CG:375:VAL:HG21	2.34	0.57
3:CH:33:THR:HG22	10:G5:349:ARG:HH12	1.70	0.57
6:D3:161:ARG:HE	7:E2:43:ILE:HD11	1.70	0.57
2:DE:46:ASP:HA	2:DE:50:ASN:HB3	1.87	0.57
3:ED:33:THR:HG22	9:G1:501:HIS:CE1	2.39	0.57
8:F3:129:GLN:HA	8:F3:132:HIS:CD2	2.40	0.57
8:F6:197:ASN:HA	8:F6:200:LYS:HD2	1.85	0.57
3:FH:163:ILE:HD11	3:FH:251:ARG:HD3	1.87	0.57
10:G5:457:TYR:CE2	10:G5:483:ARG:HG3	2.40	0.57
10:G5:709:ALA:O	10:G5:711:PRO:HD3	2.04	0.57
3:GF:325:GLU:HB3	2:GG:221:ARG:HH12	1.70	0.57
3:IH:282:ARG:NH2	3:IH:288:GLU:OE1	2.35	0.57
2:II:384:ILE:HB	2:II:388:TRP:HZ3	1.69	0.57
3:JF:207:LEU:HD12	3:JF:225:LEU:HD23	1.86	0.57
3:JH:394:PHE:HD1	3:JH:397:TRP:HZ3	1.52	0.57
3:KH:3:GLU:HG2	3:KH:130:LEU:HD23	1.86	0.57
15:L2:119:LYS:HE3	2:LG:411:GLU:HA	1.87	0.57
15:L3:89:PRO:HB2	15:L3:91:ARG:H	1.68	0.57
15:L3:125:TYR:HD1	15:L3:136:LEU:HB2	1.69	0.57
3:LF:12:CYS:SG	3:LF:13:GLY:N	2.77	0.57
3:LH:49:VAL:HG13	3:LH:50:TYR:HD1	1.68	0.57
3:OD:234:SER:O	3:OD:238:THR:HG23	2.05	0.57
19:P1:503:THR:OG1	19:P1:522:THR:N	2.37	0.57
19:P2:157:ASN:ND2	2:WG:322:ASP:OD1	2.36	0.57
2:PI:7:ILE:O	2:PI:137:ILE:HA	2.04	0.57
2:QE:362:VAL:HA	2:QE:368:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:5:ILE:HD13	2:QG:64:ARG:HB3	1.86	0.57
2:QG:257:THR:HA	3:QH:397:TRP:CZ2	2.39	0.57
2:RE:430:LYS:O	2:RE:433:GLU:HG3	2.04	0.57
3:RF:412:GLU:OE1	3:RF:416:ASN:ND2	2.33	0.57
3:SH:173:PRO:O	3:SH:380:ARG:NH2	2.38	0.57
3:SJ:2:ARG:HA	3:SJ:129:CYS:O	2.04	0.57
2:TG:339:ARG:NH1	2:TG:339:ARG:O	2.36	0.57
2:TI:319:TYR:HA	2:TI:374:ALA:O	2.04	0.57
3:UD:127:CYS:SG	3:UD:130:LEU:HD21	2.44	0.57
2:UE:74:VAL:HA	2:UE:77:GLU:HG2	1.87	0.57
3:UF:114:ASP:OD1	3:UF:115:SER:N	2.33	0.57
3:VF:118:ASP:OD1	3:VF:121:ARG:NH1	2.38	0.57
3:WF:204:ASN:HA	3:WF:207:LEU:HD12	1.87	0.57
23:XK:148:ILE:O	23:XK:152:THR:HG23	2.04	0.57
1:A2:215:GLU:N	1:A2:215:GLU:OE1	2.35	0.57
2:AE:430:LYS:HD2	22:XC:102:ARG:NH1	2.18	0.57
3:AH:374:ILE:HG22	3:AH:378:PHE:HD1	1.70	0.57
2:CG:280:LYS:O	2:CG:284:GLU:HB2	2.03	0.57
2:CG:287:SER:OG	2:CG:290:GLU:OE1	2.18	0.57
3:CJ:80:PRO:O	3:CJ:83:GLN:NE2	2.38	0.57
6:D8:198:VAL:O	6:D8:202:ARG:NH1	2.38	0.57
3:DD:193:VAL:HG21	3:DD:418:LEU:HD11	1.86	0.57
2:DE:285:GLN:NE2	2:DE:286:LEU:O	2.37	0.57
3:DF:409:THR:O	3:DF:412:GLU:HG3	2.05	0.57
3:DF:410:GLU:OE2	3:DF:414:ASN:ND2	2.35	0.57
2:EE:264:ARG:CZ	2:EE:264:ARG:HB2	2.34	0.57
3:FD:204:ASN:HA	3:FD:207:LEU:HD12	1.86	0.57
2:FE:160:ASP:OD1	2:FE:161:TYR:N	2.34	0.57
2:FG:384:ILE:HB	2:FG:388:TRP:HZ3	1.69	0.57
3:FH:376:GLU:OE1	3:FH:376:GLU:N	2.23	0.57
9:G1:127:GLU:HG2	9:G1:128:ASP:H	1.68	0.57
9:G2:243:LEU:HD11	9:G2:351:THR:HG23	1.86	0.57
10:G5:50:GLY:HA2	10:G5:52:LYS:NZ	2.20	0.57
10:G5:120:VAL:HG13	10:G5:123:SER:HB3	1.87	0.57
2:GG:36:MET:HG3	2:GG:41:THR:OG1	2.04	0.57
3:HD:206:ALA:O	3:HD:210:ILE:HG12	2.04	0.57
2:HE:254:GLU:N	2:HE:254:GLU:OE1	2.37	0.57
3:HH:211:CYS:HA	3:HH:215:LEU:HB2	1.87	0.57
2:HI:200:CYS:HA	2:HI:266:HIS:HD2	1.70	0.57
12:I3:46:PHE:HD1	12:I3:49:PHE:HB2	1.70	0.57
2:II:30:ILE:HG23	2:II:36:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:J3:22:SER:OG	13:J3:139:ARG:NE	2.35	0.57
3:JD:111:GLU:N	3:JD:111:GLU:OE1	2.36	0.57
14:K2:181:LEU:HB3	14:K2:460:VAL:HG22	1.87	0.57
3:KD:68:LEU:HA	3:KD:93:GLY:HA3	1.87	0.57
3:KF:316:VAL:HG22	3:KF:352:ALA:HB3	1.86	0.57
3:KF:324:LYS:HE2	2:KG:222:PRO:CD	2.35	0.57
15:L2:33:ALA:O	15:L2:37:ASN:ND2	2.38	0.57
15:L2:204:TRP:HD1	15:L2:237:LEU:HD22	1.69	0.57
15:L2:210:GLU:O	15:L2:213:SER:OG	2.17	0.57
3:LD:398:TYR:CD2	3:LD:403:MET:HG2	2.38	0.57
3:MF:286:VAL:HG21	3:MF:325:GLU:HG3	1.87	0.57
2:MI:85:GLN:OE1	2:MI:85:GLN:N	2.34	0.57
3:NF:19:LYS:NZ	3:NF:223:GLY:O	2.38	0.57
2:NI:229:ARG:NH1	2:NI:233:GLN:HB3	2.20	0.57
18:O2:37:GLY:H	20:Q2:1414:LEU:HB2	1.70	0.57
2:OE:85:GLN:N	2:OE:85:GLN:OE1	2.32	0.57
19:P2:564:GLY:HA2	19:P2:590:ILE:O	2.05	0.57
2:PE:384:ILE:HB	2:PE:388:TRP:HZ3	1.70	0.57
3:PF:408:PHE:O	3:PF:412:GLU:HG2	2.04	0.57
3:PH:240:LEU:HD21	3:PH:249:ASP:HA	1.86	0.57
3:PH:345:ILE:HG13	3:PH:346:PRO:O	2.04	0.57
2:QG:109:THR:O	2:QG:112:LYS:NZ	2.38	0.57
3:QH:253:LEU:O	3:QH:257:MET:HG2	2.05	0.57
3:RF:217:LEU:O	3:RF:219:THR:N	2.35	0.57
3:RJ:316:VAL:HG22	3:RJ:352:ALA:HB3	1.86	0.57
3:SH:80:PRO:O	3:SH:83:GLN:NE2	2.31	0.57
3:SH:325:GLU:O	3:SH:329:GLN:HG2	2.04	0.57
2:SI:9:VAL:HG22	2:SI:146:GLY:HA2	1.85	0.57
3:TF:117:LEU:HD21	3:TF:154:LYS:HD3	1.85	0.57
2:UE:429:GLU:O	2:UE:432:TYR:N	2.38	0.57
2:UG:1:MET:N	2:UG:130:THR:OG1	2.38	0.57
3:VD:3:GLU:OE1	3:VD:3:GLU:N	2.37	0.57
3:VD:378:PHE:CD1	3:VD:419:VAL:HG22	2.40	0.57
3:WH:250:LEU:HD13	3:WH:253:LEU:HD12	1.86	0.57
22:XD:78:MET:H	22:XD:132:ILE:HB	1.69	0.57
24:YM:59:ASN:HB2	24:YM:62:HIS:CE1	2.39	0.57
3:AH:234:SER:O	3:AH:238:THR:HG23	2.05	0.57
3:AH:406:MET:O	3:AH:409:THR:OG1	2.19	0.57
2:AI:89:PRO:HD3	2:BI:283:HIS:CE1	2.39	0.57
4:B7:182:THR:HA	4:B7:185:ILE:HD12	1.87	0.57
3:BH:54:ALA:HA	3:CH:283:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C8:438:LEU:O	5:C8:441:SER:OG	2.14	0.57
3:CF:4:ILE:HD11	3:CF:131:GLN:HB2	1.86	0.57
3:CF:170:VAL:N	3:CF:202:ILE:O	2.35	0.57
3:CF:387:ALA:O	3:CF:390:ARG:NE	2.38	0.57
2:CG:371:VAL:HG11	2:CG:374:ALA:HB2	1.86	0.57
3:CJ:240:LEU:HD22	3:CJ:248:ALA:HB1	1.87	0.57
3:DD:197:ASP:OD1	3:DD:198:GLU:N	2.37	0.57
2:DE:107:HIS:CD2	2:DE:152:LEU:HB2	2.39	0.57
2:DG:33:ASP:OD1	2:DG:35:GLN:N	2.34	0.57
3:DH:137:HIS:O	3:DH:168:SER:HA	2.04	0.57
2:EE:228:ASN:HA	2:EE:231:ILE:HG12	1.86	0.57
3:EH:142:GLY:N	25:EH:501:GTP:O3B	2.38	0.57
2:FG:190:THR:O	2:FG:194:THR:OG1	2.17	0.57
2:FG:212:ILE:HD11	2:FG:300:ASN:HD22	1.70	0.57
2:FG:288:VAL:HG11	2:FG:327:ASP:HB2	1.86	0.57
9:G1:246:TYR:HB2	9:G1:346:ASP:HB3	1.87	0.57
10:G5:570:ASP:OD1	10:G5:571:TYR:N	2.38	0.57
2:GG:313:MET:SD	2:GG:314:ALA:N	2.77	0.57
3:GH:6:HIS:CE1	3:GH:8:GLN:HB2	2.40	0.57
2:GI:240:ALA:HB1	2:GI:356:ASN:HD22	1.70	0.57
11:H3:35:TYR:O	11:H3:38:THR:OG1	2.21	0.57
3:HD:12:CYS:HA	25:HD:501:GTP:HN22	1.70	0.57
3:HF:127:CYS:SG	3:HF:130:LEU:HD21	2.44	0.57
3:HF:161:ASP:O	3:HF:251:ARG:NH2	2.38	0.57
3:HF:375:GLN:HA	3:HF:378:PHE:CE2	2.39	0.57
2:IE:107:HIS:HD2	2:IE:108:TYR:CZ	2.22	0.57
2:IG:262:TYR:OH	3:IH:391:ARG:O	2.20	0.57
3:JD:271:ALA:HB1	3:JD:272:PRO:HD2	1.85	0.57
2:JG:319:TYR:HB2	2:JG:355:ILE:HD13	1.87	0.57
14:K3:164:ARG:NE	14:K3:318:GLU:OE2	2.37	0.57
3:KD:378:PHE:CD1	3:KD:419:VAL:HG22	2.39	0.57
2:KG:309:HIS:N	2:NG:282:TYR:OH	2.38	0.57
3:KH:2:ARG:NE	3:KH:129:CYS:HB2	2.20	0.57
2:KI:287:SER:OG	2:KI:290:GLU:OE1	2.17	0.57
15:L2:76:LYS:CD	15:L2:78:PHE:H	2.18	0.57
2:ME:66:VAL:HG22	2:ME:91:GLN:HG3	1.85	0.57
2:NE:30:ILE:HG13	2:NE:53:PHE:CE2	2.39	0.57
2:NI:156:ARG:HA	2:NI:159:VAL:HG22	1.87	0.57
2:OE:67:PHE:HB2	2:OE:92:LEU:HD23	1.86	0.57
19:P1:339:VAL:O	19:P1:348:PHE:HB2	2.04	0.57
3:PH:19:LYS:NZ	3:PH:223:GLY:O	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:371:VAL:HG11	2:PI:374:ALA:HB2	1.86	0.57
2:QE:208:ALA:N	2:QE:304:LYS:HZ1	1.97	0.57
2:QG:32:PRO:O	2:QG:85:GLN:NE2	2.38	0.57
3:QH:11:GLN:HG3	25:QH:501:GTP:PA	2.45	0.57
2:QI:224:TYR:CE1	25:QI:501:GTP:C5	2.90	0.57
3:RH:265:PHE:HD2	3:RH:374:ILE:HG21	1.69	0.57
3:RH:328:GLU:OE2	3:RH:329:GLN:NE2	2.37	0.57
2:SG:26:LEU:HD13	2:SG:363:VAL:HG23	1.85	0.57
2:SI:166:LYS:O	2:SI:199:ASP:HB2	2.04	0.57
3:TH:15:GLN:O	3:TH:226:ASN:ND2	2.38	0.57
3:TH:238:THR:HB	3:TH:242:PHE:HD2	1.69	0.57
2:TI:5:ILE:HB	2:TI:135:PHE:HD1	1.68	0.57
2:UG:397:LEU:O	2:UG:401:LYS:HG2	2.05	0.57
3:UH:289:LEU:HD21	3:UH:363:MET:HB3	1.85	0.57
3:VD:21:TRP:CZ3	3:VD:61:PRO:HB3	2.40	0.57
3:VH:273:LEU:H	3:VH:292:GLN:HE22	1.53	0.57
2:WE:390:ARG:HA	2:WE:393:HIS:CD2	2.39	0.57
2:WG:228:ASN:HA	2:WG:231:ILE:HG22	1.87	0.57
2:WI:246:GLY:HA3	2:WI:356:ASN:HA	1.85	0.57
22:XD:33:HIS:HE1	22:XD:50:GLU:HG2	1.68	0.57
22:XD:84:LYS:NZ	23:XJ:241:ASN:H	2.02	0.57
24:YL:105:SER:HB2	24:YL:108:ASN:HB3	1.87	0.57
1:A2:203:LYS:HA	1:A2:206:ARG:NH2	2.20	0.57
1:A2:318:GLU:O	1:A2:321:THR:OG1	2.16	0.57
2:AE:53:PHE:HB3	2:AE:61:HIS:HB3	1.87	0.57
3:AF:412:GLU:O	3:AF:416:ASN:ND2	2.38	0.57
2:AG:5:ILE:HB	2:AG:135:PHE:HD1	1.70	0.57
2:AG:107:HIS:HB3	2:AG:108:TYR:CD1	2.40	0.57
2:AG:214:ARG:NH1	2:AG:215:ARG:HG3	2.20	0.57
2:BI:43:GLY:HA2	9:G2:229:PHE:CD2	2.40	0.57
5:C4:370:GLN:HA	5:C4:373:PHE:CD2	2.40	0.57
3:CF:105:HIS:HD2	3:CF:106:TYR:CE1	2.22	0.57
3:CH:182:PRO:HA	3:CH:381:ILE:HD11	1.85	0.57
2:CI:398:MET:HA	2:CI:401:LYS:HG2	1.85	0.57
3:ED:284:LEU:HD21	3:ED:363:MET:HB2	1.85	0.57
8:F7:402:ARG:NH1	8:F7:408:CYS:H	2.02	0.57
2:FE:417:GLU:OE1	2:FE:417:GLU:N	2.25	0.57
3:FF:249:ASP:OD2	3:FF:251:ARG:HB2	2.05	0.57
10:G5:328:VAL:HG13	10:G5:330:GLN:HE22	1.69	0.57
10:G5:575:LYS:HA	10:G5:734:ARG:HH11	1.70	0.57
2:GE:263:PRO:HD3	3:GF:396:HIS:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:80:PRO:O	3:GF:83:GLN:NE2	2.30	0.57
2:GG:70:LEU:HD13	2:GG:95:GLY:HA3	1.87	0.57
3:HD:141:GLY:HA3	25:HD:501:GTP:H5''	1.86	0.57
3:HD:249:ASP:O	3:HD:252:LYS:HB3	2.03	0.57
3:HD:345:ILE:HD12	3:HD:346:PRO:HD2	1.87	0.57
2:IE:88:HIS:HB3	2:IE:91:GLN:HG2	1.86	0.57
3:IF:36:TYR:CE2	3:IF:44:LEU:HD13	2.39	0.57
3:IF:290:THR:HG21	3:IF:329:GLN:HB3	1.86	0.57
13:J2:69:GLN:OE1	13:J2:69:GLN:N	2.37	0.57
3:KD:415:MET:O	3:KD:419:VAL:HG23	2.03	0.57
2:KG:224:TYR:CE1	25:KG:501:GTP:C5	2.93	0.57
2:KI:127:ASP:OD1	2:KI:128:LEU:N	2.38	0.57
15:L3:236:GLN:HA	15:L3:239:HIS:NE2	2.19	0.57
3:LD:50:TYR:O	3:LD:62:ARG:NE	2.27	0.57
2:LG:196:GLU:OE1	2:LG:196:GLU:N	2.32	0.57
2:LI:166:LYS:O	2:LI:199:ASP:HB2	2.04	0.57
16:M2:69:VAL:O	16:M2:73:GLN:NE2	2.37	0.57
3:ND:376:GLU:N	3:ND:376:GLU:OE1	2.36	0.57
3:NF:183:TYR:CZ	3:NF:388:MET:HG3	2.40	0.57
3:OH:371:SER:OG	3:OH:372:THR:N	2.38	0.57
2:QG:216:ASN:HD21	2:QG:275:VAL:HG23	1.70	0.57
2:QG:390:ARG:HA	2:QG:393:HIS:CD2	2.40	0.57
3:RH:111:GLU:N	3:RH:111:GLU:OE1	2.36	0.57
2:RI:33:ASP:OD1	2:RI:34:GLY:N	2.38	0.57
2:RI:102:ASN:HD21	2:RI:411:GLU:HG2	1.69	0.57
2:RI:172:TYR:N	2:RI:204:VAL:O	2.35	0.57
2:RI:272:TYR:CZ	2:RI:274:PRO:HG2	2.39	0.57
2:TG:1:MET:N	2:TG:130:THR:OG1	2.37	0.57
2:TG:329:ASN:HA	2:TG:332:ILE:HG12	1.86	0.57
3:TH:420:SER:O	3:TH:424:GLN:HG3	2.05	0.57
2:TI:216:ASN:ND2	2:TI:275:VAL:O	2.37	0.57
3:TJ:48:ASN:O	3:TJ:62:ARG:NH2	2.22	0.57
2:UE:402:ARG:HB2	2:UE:405:VAL:HG21	1.85	0.57
2:UG:319:TYR:HA	2:UG:374:ALA:O	2.05	0.57
3:UH:75:SER:O	3:UH:78:SER:OG	2.17	0.57
3:VD:234:SER:O	3:VD:238:THR:HG23	2.05	0.57
2:VE:22:GLU:HG2	2:VE:83:TYR:CE2	2.40	0.57
3:VF:8:GLN:OE1	3:VF:65:LEU:HG	2.05	0.57
2:VG:388:TRP:HA	2:VG:391:LEU:HD12	1.85	0.57
2:WE:160:ASP:OD1	2:WE:161:TYR:N	2.38	0.57
2:WE:406:HIS:HA	2:WE:409:VAL:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:324:VAL:HG23	2:WG:327:ASP:H	1.69	0.57
2:WI:50:ASN:O	2:WI:64:ARG:NH1	2.37	0.57
2:WI:312:TYR:HB2	2:WI:343:PHE:HD1	1.69	0.57
22:XC:83:LEU:HD11	22:XC:161:ARG:HB2	1.85	0.57
22:XD:86:TYR:HD1	22:XD:107:ASN:HD21	1.52	0.57
22:XD:138:ASP:OD1	22:XD:141:ARG:NH2	2.38	0.57
24:YK:43:ILE:HD11	24:YK:134:TYR:HE1	1.70	0.57
1:A2:97:ARG:HD3	7:E2:76:TRP:HH2	1.70	0.57
3:AF:77:ARG:HD3	3:AF:90:PHE:HE2	1.70	0.57
4:B2:135:GLU:N	4:B2:135:GLU:OE1	2.38	0.57
3:BF:172:SER:HB3	3:BF:175:VAL:O	2.05	0.57
3:BF:385:PHE:HZ	3:BF:408:PHE:HB3	1.69	0.57
2:BG:208:ALA:N	2:BG:304:LYS:HZ1	2.01	0.57
3:CF:385:PHE:HZ	3:CF:408:PHE:HB3	1.70	0.57
6:D7:324:LYS:HG3	6:D8:71:ARG:HH12	1.69	0.57
3:DF:275:SER:N	3:DF:278:SER:OG	2.37	0.57
2:EE:224:TYR:CB	2:EE:227:LEU:HG	2.35	0.57
3:EF:77:ARG:HD3	3:EF:90:PHE:HE2	1.68	0.57
3:EF:109:GLY:O	3:EF:113:VAL:HG13	2.04	0.57
3:EF:276:ARG:HH11	10:G5:402:SER:HB2	1.69	0.57
2:FE:173:PRO:HG3	2:FE:183:GLU:OE2	2.05	0.57
9:G1:253:ASP:OD1	9:G1:254:SER:N	2.37	0.57
2:GG:415:GLU:OE1	2:GG:415:GLU:N	2.36	0.57
3:HD:113:VAL:HB	3:HD:154:LYS:HE3	1.85	0.57
3:HF:263:LEU:HD13	3:HF:422:TYR:CE1	2.39	0.57
14:K3:400:MET:O	14:K3:403:ARG:HB2	2.04	0.57
3:LH:3:GLU:HB2	3:LH:62:ARG:NH2	2.19	0.57
2:ME:69:ASP:OD1	2:ME:70:LEU:N	2.37	0.57
2:MI:160:ASP:OD1	2:MI:161:TYR:N	2.38	0.57
3:ND:152:ILE:O	3:ND:156:ARG:HG2	2.05	0.57
2:NE:301:GLN:N	2:NE:301:GLN:OE1	2.37	0.57
2:NG:16:ILE:HG22	2:NG:228:ASN:OD1	2.05	0.57
3:NH:7:LEU:HD13	3:NH:64:VAL:HB	1.86	0.57
3:OD:256:ASN:HB3	3:OD:350:LYS:HG3	1.86	0.57
2:OE:172:TYR:HB2	2:OE:203:MET:HB2	1.86	0.57
2:OE:211:ASP:O	2:OE:214:ARG:NH1	2.38	0.57
3:OH:152:ILE:HD13	3:OH:192:LEU:HD23	1.86	0.57
19:P1:14:LEU:HB2	19:P1:581:HIS:HB3	1.86	0.57
19:P1:546:GLY:HA3	19:P1:565:HIS:HB2	1.86	0.57
2:PG:396:ASP:OD1	2:PG:397:LEU:N	2.38	0.57
3:PH:247:ASN:HB3	3:PH:252:LYS:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:4:ILE:HB	3:QH:50:TYR:CE1	2.39	0.57
2:RE:50:ASN:O	2:RE:64:ARG:NH1	2.37	0.57
2:RE:246:GLY:HA3	2:RE:356:ASN:HA	1.87	0.57
3:RF:323:MET:SD	3:RF:323:MET:N	2.70	0.57
3:RH:278:SER:HA	3:RH:281:TYR:HB2	1.87	0.57
2:RI:74:VAL:O	2:RI:77:GLU:HG3	2.04	0.57
3:SJ:6:HIS:ND1	3:SJ:134:GLN:O	2.38	0.57
2:TG:311:LYS:N	2:TG:382:THR:OG1	2.37	0.57
2:TI:76:ASP:OD1	2:TI:79:ARG:NH1	2.38	0.57
3:TJ:41:ASP:O	3:TJ:45:GLU:HG2	2.05	0.57
3:TJ:253:LEU:O	3:TJ:257:MET:HG2	2.04	0.57
3:UH:199:THR:HB	3:UH:264:HIS:O	2.04	0.57
3:VD:31:ASP:OD2	3:VD:35:THR:OG1	2.22	0.57
3:VD:316:VAL:HG22	3:VD:352:ALA:HB3	1.86	0.57
2:VG:51:THR:HG21	2:VG:242:LEU:HD21	1.86	0.57
22:XD:86:TYR:HA	22:XD:107:ASN:ND2	2.20	0.57
24:YJ:50:GLN:O	24:YJ:53:MET:HG3	2.05	0.57
1:A2:119:ARG:HE	1:A2:122:ARG:CZ	2.19	0.56
1:A2:162:ARG:HH12	9:G1:198:GLY:C	2.09	0.56
3:AF:19:LYS:NZ	3:AF:223:GLY:O	2.38	0.56
2:AG:99:ALA:H	2:AG:145:THR:CG2	2.17	0.56
2:AG:286:LEU:O	2:AG:373:ARG:NH2	2.38	0.56
2:BE:127:ASP:OD1	2:BE:128:LEU:N	2.33	0.56
3:BF:142:GLY:N	25:BF:501:GTP:O3B	2.38	0.56
2:BG:56:THR:HG21	2:CG:285:GLN:HG3	1.87	0.56
3:BH:375:GLN:HA	3:BH:378:PHE:CZ	2.40	0.56
5:C3:209:ASP:OD2	5:C3:465:THR:OG1	2.17	0.56
5:C3:279:GLU:N	5:C3:279:GLU:OE1	2.38	0.56
3:CF:47:ILE:HG13	3:CF:51:TYR:HB2	1.87	0.56
3:CH:86:ARG:HA	3:CH:86:ARG:NE	2.19	0.56
3:CH:379:LYS:O	3:CH:382:SER:OG	2.15	0.56
2:DE:273:ALA:HB2	2:DE:295:CYS:HB3	1.86	0.56
3:ED:375:GLN:HA	3:ED:378:PHE:CE1	2.40	0.56
3:EH:19:LYS:O	3:EH:22:GLU:HG3	2.05	0.56
3:EH:269:GLY:HA3	3:EH:367:PHE:HD2	1.70	0.56
8:F3:262:TYR:O	8:F3:266:ASN:ND2	2.38	0.56
3:FF:31:ASP:OD2	3:FF:33:THR:OG1	2.23	0.56
3:GF:221:THR:HG23	3:GF:224:ASP:H	1.70	0.56
2:GG:45:GLY:HA2	2:GG:49:PHE:HE1	1.70	0.56
11:H4:5:GLN:N	11:H4:5:GLN:OE1	2.37	0.56
3:IF:350:LYS:HE3	2:IG:181:VAL:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:192:HIS:HA	2:IG:195:LEU:HD23	1.87	0.56
2:IG:308:ARG:NH2	2:IG:340:THR:O	2.38	0.56
2:IG:397:LEU:O	2:IG:401:LYS:NZ	2.38	0.56
3:IH:8:GLN:HE22	3:IH:63:ALA:HB1	1.70	0.56
3:IH:344:TRP:HD1	2:II:401:LYS:HD2	1.70	0.56
3:IH:380:ARG:O	3:IH:384:GLN:HG2	2.04	0.56
2:II:230:LEU:O	2:II:233:GLN:HG3	2.05	0.56
13:J2:92:HIS:HA	13:J2:95:GLU:HG2	1.86	0.56
13:J3:64:ASP:O	13:J3:66:GLN:NE2	2.38	0.56
3:JD:81:PHE:O	3:JD:84:ILE:HG22	2.05	0.56
3:JH:36:TYR:HE2	3:JH:44:LEU:HD13	1.70	0.56
3:KD:276:ARG:HA	3:KD:279:GLN:HE22	1.69	0.56
2:KE:36:MET:HG2	2:KE:41:THR:OG1	2.04	0.56
2:KE:229:ARG:CZ	2:KE:366:GLY:HA2	2.35	0.56
3:KF:51:TYR:HB3	3:KF:59:TYR:HB3	1.86	0.56
3:KH:259:PRO:O	2:KI:406:HIS:CE1	2.59	0.56
3:LD:222:TYR:HA	3:LD:225:LEU:HD13	1.87	0.56
2:LI:217:LEU:HD21	2:LI:275:VAL:HB	1.86	0.56
3:MH:174:LYS:HG3	3:MH:175:VAL:HG12	1.87	0.56
17:N2:89:LYS:HA	17:N2:92:ILE:HD12	1.87	0.56
3:NF:12:CYS:HB3	25:NF:501:GTP:O4'	2.05	0.56
3:OD:152:ILE:HD12	3:OD:155:ILE:HD11	1.87	0.56
2:OE:46:ASP:HA	2:OE:50:ASN:HB3	1.87	0.56
2:OG:186:ASN:OD1	2:OG:187:SER:N	2.38	0.56
3:OH:375:GLN:HA	3:OH:378:PHE:CE1	2.39	0.56
2:OI:390:ARG:HA	2:OI:393:HIS:NE2	2.20	0.56
19:P1:127:VAL:HG22	19:P1:139:VAL:HG22	1.86	0.56
19:P2:431:ARG:CZ	19:P2:490:LEU:HD21	2.34	0.56
2:PI:144:GLY:N	25:PI:501:GTP:O2B	2.38	0.56
2:QI:33:ASP:OD1	2:QI:34:GLY:N	2.37	0.56
2:QI:160:ASP:OD1	2:QI:161:TYR:N	2.38	0.56
3:RF:209:ASP:O	3:RF:213:ARG:HG2	2.05	0.56
3:RF:374:ILE:HA	3:RF:377:LEU:HD13	1.86	0.56
2:RG:136:LEU:HA	2:RG:167:LEU:HB2	1.87	0.56
2:RG:272:TYR:CZ	2:RG:274:PRO:HG2	2.40	0.56
2:RG:406:HIS:HA	2:RG:409:VAL:HG22	1.87	0.56
2:RG:434:GLU:OE1	2:RG:434:GLU:N	2.35	0.56
2:RI:246:GLY:HA3	2:RI:356:ASN:HA	1.87	0.56
2:SE:406:HIS:HA	2:SE:409:VAL:HG22	1.87	0.56
3:SJ:193:VAL:HG22	3:SJ:262:ARG:NH1	2.19	0.56
3:TF:406:MET:SD	3:TF:407:GLU:N	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:375:GLN:HA	3:TJ:378:PHE:CZ	2.40	0.56
2:UE:52:PHE:HZ	2:UE:239:THR:HB	1.70	0.56
2:UE:207:GLU:HB2	2:UE:304:LYS:NZ	2.20	0.56
2:UE:264:ARG:NH2	2:UE:431:ASP:HB3	2.20	0.56
2:VE:21:TRP:HA	2:VE:24:TYR:HD2	1.69	0.56
2:VE:54:SER:H	2:VE:62:VAL:H	1.53	0.56
2:VE:269:LEU:O	2:VE:378:LEU:HA	2.05	0.56
2:VG:272:TYR:CZ	2:VG:274:PRO:HG2	2.39	0.56
2:WI:395:PHE:HB3	2:WI:422:ARG:HH12	1.69	0.56
23:XK:158:HIS:HA	23:XK:161:VAL:HG12	1.86	0.56
24:YI:30:GLU:O	24:YI:33:ARG:HG3	2.04	0.56
24:YM:70:MET:HA	24:YM:73:CYS:SG	2.44	0.56
24:YN:150:GLU:O	24:YN:154:HIS:ND1	2.34	0.56
2:AE:263:PRO:HG2	22:XC:116:PRO:HG2	1.87	0.56
2:AE:431:ASP:O	2:AE:435:VAL:HG22	2.05	0.56
3:AF:375:GLN:HA	3:AF:378:PHE:CZ	2.40	0.56
2:AG:172:TYR:HE2	2:AG:175:PRO:HG3	1.70	0.56
2:AG:264:ARG:O	2:AG:266:HIS:ND1	2.37	0.56
2:AG:333:ALA:O	2:AG:337:THR:HG23	2.05	0.56
3:AH:21:TRP:CZ2	3:AH:63:ALA:HB2	2.40	0.56
3:AH:36:TYR:CE2	3:AH:38:GLY:HA2	2.40	0.56
3:AH:306:ARG:NE	3:AH:306:ARG:O	2.38	0.56
2:AI:338:LYS:HZ2	2:AI:340:THR:H	1.52	0.56
2:AI:397:LEU:O	2:AI:401:LYS:NZ	2.34	0.56
4:B7:43:ARG:O	4:B7:46:ARG:HG2	2.05	0.56
2:BE:427:ALA:HA	2:BE:430:LYS:HG2	1.87	0.56
2:BG:88:HIS:CE1	2:BG:121:ARG:HH22	2.23	0.56
3:CH:378:PHE:CD1	3:CH:419:VAL:HG22	2.40	0.56
2:CI:85:GLN:OE1	2:CI:85:GLN:N	2.33	0.56
3:DD:324:LYS:HD2	2:DE:221:ARG:HA	1.87	0.56
2:DE:47:ASP:O	2:DE:50:ASN:N	2.20	0.56
2:DE:213:CYS:HB3	2:DE:222:PRO:HG3	1.87	0.56
3:DF:230:SER:HA	3:DF:233:MET:SD	2.44	0.56
3:EH:374:ILE:HG22	3:EH:378:PHE:HD2	1.68	0.56
8:F6:152:TRP:HB3	8:F6:257:LYS:HZ3	1.70	0.56
3:FH:52:ASN:OD1	3:FH:62:ARG:NH1	2.37	0.56
10:G5:694:PHE:HA	10:G5:697:LEU:HG	1.86	0.56
3:GF:380:ARG:O	3:GF:384:GLN:HG2	2.05	0.56
2:HE:56:THR:HG21	2:IE:285:GLN:HG3	1.85	0.56
2:HE:257:THR:OG1	2:HE:258:ASN:ND2	2.39	0.56
2:IE:388:TRP:HB3	2:IE:425:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:209:ASP:O	3:IF:213:ARG:HG2	2.06	0.56
3:IH:235:GLY:O	3:IH:238:THR:OG1	2.21	0.56
2:JG:115:VAL:HA	2:JG:118:VAL:HG22	1.86	0.56
3:KD:28:HIS:O	3:KD:43:GLN:NE2	2.37	0.56
2:KE:54:SER:OG	2:KE:64:ARG:NH2	2.38	0.56
2:LI:356:ASN:OD1	2:LI:357:TYR:N	2.38	0.56
2:MG:390:ARG:HG3	2:MG:394:LYS:HE2	1.86	0.56
3:NF:151:LEU:O	3:NF:155:ILE:HG12	2.04	0.56
2:NI:230:LEU:O	2:NI:233:GLN:HG3	2.06	0.56
2:OI:106:GLY:HA2	2:OI:110:ILE:HG22	1.87	0.56
19:P1:279:PRO:O	19:P1:281:TYR:CD2	2.58	0.56
19:P2:105:ALA:HB1	19:P2:145:ARG:NH1	2.20	0.56
2:PE:85:GLN:OE1	2:PE:85:GLN:N	2.29	0.56
3:PF:189:VAL:HA	3:PF:192:LEU:HB2	1.86	0.56
20:Q1:1486:SER:N	20:Q1:1489:GLU:OE1	2.35	0.56
2:QE:212:ILE:HG12	2:QE:215:ARG:NH2	2.20	0.56
3:QF:234:SER:O	3:QF:238:THR:HG23	2.05	0.56
3:QH:35:THR:HG22	3:QH:58:LYS:HE3	1.85	0.56
3:RH:210:ILE:HD12	3:RH:213:ARG:HB2	1.87	0.56
3:RJ:144:GLY:N	25:RJ:501:GTP:O2B	2.37	0.56
2:SE:259:LEU:HG	2:SE:352:LYS:HZ2	1.69	0.56
3:SH:382:SER:HA	3:SH:385:PHE:CD2	2.40	0.56
3:SJ:3:GLU:HG2	3:SJ:130:LEU:HD23	1.85	0.56
3:TF:12:CYS:SG	3:TF:13:GLY:N	2.79	0.56
3:TH:189:VAL:HA	3:TH:192:LEU:HD12	1.87	0.56
2:UG:324:VAL:HG21	3:UH:219:THR:HG22	1.87	0.56
2:VE:320:ARG:HG2	2:VE:358:GLN:O	2.05	0.56
3:VH:209:ASP:O	3:VH:213:ARG:HG2	2.06	0.56
2:WG:188:ILE:HG12	2:WG:421:ALA:HB1	1.87	0.56
3:WH:6:HIS:CE1	3:WH:8:GLN:HB2	2.40	0.56
3:WH:11:GLN:HG3	25:WH:501:GTP:O5'	2.05	0.56
2:WI:75:VAL:HG23	2:WI:92:LEU:HD12	1.86	0.56
2:WI:85:GLN:OE1	2:WI:85:GLN:N	2.31	0.56
22:XE:78:MET:HG2	22:XE:165:VAL:HG22	1.86	0.56
24:YK:114:ARG:NH2	24:YK:133:HIS:O	2.39	0.56
1:A2:58:ASP:HA	1:A2:61:LYS:HE2	1.87	0.56
1:A2:72:PHE:CD2	4:B3:270:ARG:HD2	2.40	0.56
1:A2:315:THR:HG21	1:A3:198:ILE:HG23	1.85	0.56
2:AE:338:LYS:HZ2	2:AE:340:THR:H	1.52	0.56
3:AF:77:ARG:O	3:AF:77:ARG:NH1	2.37	0.56
3:AF:152:ILE:HD12	3:AF:195:ASN:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:424:GLN:O	3:AF:427:ASP:N	2.38	0.56
3:AH:28:HIS:CE1	3:AH:241:ARG:HD3	2.40	0.56
2:AI:16:ILE:HD13	25:AI:501:GTP:HN21	1.70	0.56
2:AI:263:PRO:HB2	2:AI:264:ARG:NH1	2.20	0.56
4:B2:125:ASP:OD1	4:B2:126:ILE:N	2.38	0.56
4:B8:395:ARG:HH22	5:C7:341:ASN:HB3	1.68	0.56
2:BE:3:GLU:H	2:BE:133:GLN:HE22	1.53	0.56
2:BE:254:GLU:N	2:BE:254:GLU:OE1	2.34	0.56
2:BI:363:VAL:H	2:BI:368:LEU:HD21	1.69	0.56
3:CF:40:SER:HB2	3:CF:43:GLN:HG2	1.87	0.56
3:CF:344:TRP:CZ2	2:CG:401:LYS:HB2	2.41	0.56
2:CI:90:GLU:HG2	2:CI:121:ARG:NH2	2.20	0.56
3:CJ:167:PHE:HD1	3:CJ:200:TYR:HD2	1.52	0.56
6:D4:326:LEU:HA	6:D4:329:ILE:HD12	1.87	0.56
2:DE:108:TYR:O	2:DE:112:LYS:NZ	2.25	0.56
2:DE:208:ALA:H	2:DE:304:LYS:HZ1	1.52	0.56
3:DF:392:LYS:HD3	3:DF:395:LEU:HD22	1.87	0.56
2:DG:85:GLN:OE1	2:DG:85:GLN:N	2.34	0.56
3:DH:2:ARG:HG3	3:DH:129:CYS:HB2	1.86	0.56
3:DH:40:SER:O	3:DH:43:GLN:HG3	2.05	0.56
3:DH:392:LYS:HG3	3:DH:395:LEU:HD13	1.87	0.56
3:EH:211:CYS:HA	3:EH:215:LEU:HB2	1.86	0.56
3:EH:392:LYS:HB2	3:EH:395:LEU:HD22	1.88	0.56
2:FE:102:ASN:HB3	2:FE:105:ARG:HB2	1.87	0.56
3:FF:210:ILE:HG13	3:FF:300:MET:HG3	1.87	0.56
2:FG:127:ASP:OD1	2:FG:128:LEU:N	2.38	0.56
3:FH:361:LEU:HD11	3:FH:364:SER:HB3	1.87	0.56
9:G1:279:HIS:NE2	9:G1:288:PHE:O	2.36	0.56
10:G5:450:ARG:HD2	10:G5:467:GLU:HG3	1.86	0.56
3:GD:7:LEU:HD13	3:GD:64:VAL:HB	1.87	0.56
2:GE:306:ASP:HB3	2:GE:309:HIS:ND1	2.21	0.56
3:GH:113:VAL:HA	3:GH:116:VAL:HG12	1.88	0.56
2:GI:33:ASP:OD1	2:GI:34:GLY:N	2.39	0.56
2:GI:33:ASP:OD1	2:GI:35:GLN:N	2.36	0.56
2:GI:338:LYS:HZ2	2:GI:340:THR:H	1.53	0.56
2:GI:408:TYR:O	2:GI:411:GLU:HG3	2.05	0.56
11:H4:17:ILE:HD12	11:H4:17:ILE:H	1.70	0.56
11:H4:35:TYR:O	11:H4:38:THR:OG1	2.23	0.56
3:HD:46:ARG:HH12	2:HE:73:THR:HG23	1.70	0.56
2:HE:326:LYS:HG3	3:HF:220:PRO:HD2	1.87	0.56
3:HF:323:MET:SD	2:HG:210:TYR:OH	2.62	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HG:55:GLU:HB2	2:HG:61:HIS:CD2	2.40	0.56
2:HG:296:PHE:CD2	2:HG:335:ILE:HG12	2.41	0.56
3:HH:28:HIS:O	3:HH:43:GLN:NE2	2.39	0.56
3:HH:251:ARG:NH2	2:HI:97:GLU:OE2	2.38	0.56
12:I2:54:ASN:O	12:I2:58:GLU:HG2	2.05	0.56
2:IG:2:ARG:CZ	2:IG:242:LEU:HA	2.35	0.56
3:IH:163:ILE:HD13	3:IH:250:LEU:HB2	1.88	0.56
3:IH:174:LYS:HG3	3:IH:175:VAL:HG13	1.85	0.56
3:JD:211:CYS:HA	3:JD:215:LEU:HB2	1.87	0.56
2:JE:28:HIS:CE1	2:JE:243:ARG:HD2	2.37	0.56
2:JG:127:ASP:OD1	2:JG:128:LEU:N	2.38	0.56
2:JG:185:TYR:HA	2:JG:395:PHE:HE2	1.70	0.56
3:KD:9:ALA:HB3	3:KD:137:HIS:HB3	1.86	0.56
2:KE:172:TYR:CD1	2:KE:173:PRO:HD2	2.40	0.56
15:L2:217:PHE:CZ	3:VF:92:PHE:HZ	2.23	0.56
15:L3:72:LEU:O	15:L3:74:PRO:HD3	2.05	0.56
2:LE:338:LYS:HZ2	2:LE:340:THR:H	1.52	0.56
2:LG:17:GLY:O	2:LG:21:TRP:HE3	1.87	0.56
16:M2:64:MET:HA	16:M2:67:ARG:HB2	1.87	0.56
2:MG:326:LYS:HZ2	3:MH:208:TYR:HD1	1.52	0.56
3:ND:19:LYS:O	3:ND:22:GLU:HG3	2.04	0.56
3:ND:189:VAL:HA	3:ND:192:LEU:HB2	1.86	0.56
3:NF:31:ASP:OD1	3:NF:35:THR:N	2.38	0.56
3:NF:51:TYR:HB3	3:NF:59:TYR:HB3	1.88	0.56
3:OF:197:ASP:OD1	3:OF:198:GLU:N	2.39	0.56
2:OG:312:TYR:HB2	2:OG:343:PHE:HA	1.87	0.56
3:OH:269:GLY:O	3:OH:367:PHE:N	2.38	0.56
2:OI:172:TYR:HB2	2:OI:203:MET:HG3	1.88	0.56
2:OI:229:ARG:NH1	2:OI:233:GLN:HB3	2.21	0.56
19:P2:118:ALA:HB3	19:P2:127:VAL:HB	1.87	0.56
2:PE:54:SER:HB2	2:PE:62:VAL:HB	1.88	0.56
2:PE:115:VAL:HA	2:PE:118:VAL:HG22	1.86	0.56
2:PE:144:GLY:N	25:PE:501:GTP:O2B	2.38	0.56
3:PF:234:SER:O	3:PF:238:THR:HG23	2.05	0.56
2:PG:196:GLU:OE1	2:PG:196:GLU:N	2.24	0.56
2:PG:203:MET:N	2:PG:203:MET:SD	2.79	0.56
2:PG:246:GLY:HA3	2:PG:356:ASN:HA	1.86	0.56
2:PI:84:ARG:NE	24:YM:124:HIS:O	2.38	0.56
20:Q2:1406:LEU:HG	20:Q2:1408:LYS:HE3	1.86	0.56
20:Q2:1438:SER:HA	20:Q2:1441:LEU:HD13	1.87	0.56
2:QE:255:PHE:HA	2:QE:259:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:197:ASP:OD1	3:QF:198:GLU:N	2.35	0.56
2:QG:5:ILE:O	2:QG:135:PHE:HA	2.04	0.56
2:QG:53:PHE:HB3	2:QG:61:HIS:HB3	1.86	0.56
3:QH:173:PRO:HA	3:QH:380:ARG:CZ	2.36	0.56
3:QH:320:ARG:HH11	3:QH:355:ASP:HB2	1.71	0.56
25:QH:501:GTP:O3G	25:QH:501:GTP:O3'	2.17	0.56
2:RG:213:CYS:O	2:RG:218:ASP:N	2.38	0.56
2:RG:319:TYR:HA	2:RG:374:ALA:O	2.05	0.56
2:RG:325:PRO:O	2:RG:329:ASN:ND2	2.38	0.56
3:RH:4:ILE:CD1	3:RH:131:GLN:HB2	2.35	0.56
3:RH:274:THR:HG23	3:RH:278:SER:HB3	1.85	0.56
3:RH:306:ARG:NE	3:RH:306:ARG:O	2.37	0.56
2:RI:207:GLU:HB2	2:RI:304:LYS:NZ	2.20	0.56
3:RJ:415:MET:O	3:RJ:419:VAL:HG23	2.05	0.56
3:SF:375:GLN:HA	3:SF:378:PHE:CZ	2.41	0.56
2:SG:3:GLU:N	2:SG:133:GLN:OE1	2.38	0.56
3:SH:169:VAL:HA	3:SH:202:ILE:HB	1.87	0.56
2:SI:311:LYS:NZ	2:SI:343:PHE:O	2.38	0.56
2:SI:362:VAL:HA	2:SI:368:LEU:HD11	1.87	0.56
3:SJ:7:LEU:HD13	3:SJ:64:VAL:HB	1.87	0.56
3:TF:269:GLY:N	3:TF:367:PHE:O	2.38	0.56
2:TG:12:ALA:O	25:TG:501:GTP:N1	2.39	0.56
2:TG:306:ASP:OD2	2:TG:309:HIS:N	2.39	0.56
3:TH:103:LYS:O	3:TH:108:GLU:N	2.33	0.56
3:UD:12:CYS:HA	25:UD:501:GTP:N2	2.19	0.56
3:UD:163:ILE:HD11	3:UD:251:ARG:HB2	1.87	0.56
3:UD:197:ASP:OD1	3:UD:198:GLU:N	2.36	0.56
2:UG:306:ASP:HB3	2:UG:309:HIS:CE1	2.40	0.56
3:UH:395:LEU:HD23	3:UH:399:THR:HG23	1.88	0.56
3:VF:286:VAL:HA	3:VF:289:LEU:HB2	1.86	0.56
3:VH:31:ASP:OD2	3:VH:35:THR:OG1	2.23	0.56
2:WE:208:ALA:N	2:WE:304:LYS:HZ1	2.03	0.56
3:WF:4:ILE:CD1	3:WF:131:GLN:HB2	2.31	0.56
3:WF:12:CYS:O	3:WF:15:GLN:HG3	2.06	0.56
3:WF:81:PHE:O	3:WF:84:ILE:HG22	2.05	0.56
3:WF:117:LEU:HD11	3:WF:154:LYS:HD2	1.87	0.56
3:WF:133:PHE:H	3:WF:164:MET:HE1	1.70	0.56
3:WF:269:GLY:N	3:WF:367:PHE:O	2.38	0.56
2:WI:52:PHE:HE2	2:WI:243:ARG:HH11	1.53	0.56
2:WI:144:GLY:N	25:WI:501:GTP:O2B	2.39	0.56
22:XD:50:GLU:OE1	22:XD:159:ASN:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XD:53:ASN:OD1	22:XD:54:VAL:N	2.38	0.56
22:XE:78:MET:H	22:XE:132:ILE:HB	1.70	0.56
24:YK:61:THR:O	24:YK:65:ILE:HG12	2.05	0.56
1:A3:67:LEU:HG	1:A3:71:ARG:HE	1.70	0.56
2:BE:306:ASP:OD2	2:BE:309:HIS:ND1	2.30	0.56
3:BF:206:ALA:HB1	3:BF:300:MET:HA	1.87	0.56
2:BG:390:ARG:HA	2:BG:393:HIS:CD2	2.40	0.56
3:BH:48:ASN:ND2	11:H4:23:PHE:HB2	2.21	0.56
3:BH:182:PRO:HA	3:BH:381:ILE:HD11	1.86	0.56
2:BI:362:VAL:HA	2:BI:368:LEU:HD11	1.86	0.56
2:CG:189:LEU:HA	2:CG:192:HIS:CE1	2.41	0.56
3:CJ:100:ASN:OD1	3:CJ:103:LYS:N	2.31	0.56
3:DD:217:LEU:O	9:G1:281:ARG:NH1	2.34	0.56
3:DD:343:GLU:N	3:DD:343:GLU:OE1	2.39	0.56
2:DG:117:LEU:O	2:DG:121:ARG:HG2	2.05	0.56
3:DH:20:PHE:CZ	3:DH:24:ILE:HD11	2.40	0.56
3:ED:152:ILE:HA	3:ED:155:ILE:HG12	1.87	0.56
2:EE:320:ARG:HH21	2:EE:358:GLN:HG3	1.70	0.56
2:EG:396:ASP:OD1	2:EG:397:LEU:N	2.36	0.56
8:F7:399:ARG:NH2	8:F7:408:CYS:O	2.38	0.56
3:FD:172:SER:HB2	3:FD:204:ASN:HD21	1.71	0.56
3:FF:117:LEU:HA	3:FF:120:VAL:HG22	1.88	0.56
9:G1:131:MET:HB2	9:G1:154:PHE:CE2	2.40	0.56
9:G1:210:ASP:O	9:G1:214:GLN:NE2	2.37	0.56
10:G5:630:ASN:O	10:G5:632:PHE:N	2.29	0.56
3:HH:172:SER:HB3	3:HH:175:VAL:O	2.05	0.56
3:IF:12:CYS:SG	3:IF:13:GLY:N	2.78	0.56
2:JE:30:ILE:HA	2:JE:36:MET:HE1	1.88	0.56
2:JE:223:THR:OG1	2:JE:225:THR:OG1	2.22	0.56
2:JG:220:GLU:OE1	2:JG:220:GLU:N	2.34	0.56
3:KD:86:ARG:NE	3:KD:87:PRO:HD2	2.18	0.56
3:KD:278:SER:O	3:KD:282:ARG:CB	2.44	0.56
2:KG:168:GLU:OE1	2:KG:198:SER:OG	2.24	0.56
3:KH:423:GLN:NE2	3:KH:427:ASP:OD2	2.38	0.56
2:LG:5:ILE:HB	2:LG:135:PHE:HD1	1.71	0.56
3:ND:41:ASP:O	3:ND:44:LEU:HB3	2.05	0.56
3:NF:41:ASP:OD1	3:NF:42:LEU:N	2.38	0.56
3:NF:191:GLN:O	3:NF:195:ASN:ND2	2.38	0.56
2:NG:33:ASP:OD1	2:NG:34:GLY:N	2.37	0.56
2:NI:287:SER:OG	2:NI:290:GLU:OE1	2.18	0.56
3:OF:318:ARG:CZ	3:OF:358:PRO:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:201:ALA:H	2:OG:266:HIS:HD2	1.53	0.56
2:OG:254:GLU:OE1	2:OG:254:GLU:N	2.26	0.56
19:P2:48:LEU:HB3	19:P2:50:GLN:NE2	2.14	0.56
19:P2:340:PHE:CE2	19:P2:594:ARG:HD2	2.40	0.56
2:PE:2:ARG:NH2	2:PE:250:VAL:O	2.39	0.56
3:PF:257:MET:HB3	3:PF:370:ASN:HD21	1.70	0.56
20:Q2:1354:LYS:HZ2	20:Q2:1435:SER:HB3	1.71	0.56
3:QH:172:SER:OG	3:QH:205:GLU:OE2	2.22	0.56
2:RE:229:ARG:HE	2:RE:363:VAL:HG11	1.70	0.56
3:SH:149:THR:HB	3:SH:191:GLN:OE1	2.04	0.56
3:SJ:316:VAL:HG22	3:SJ:352:ALA:HB3	1.85	0.56
3:TF:150:LEU:O	3:TF:154:LYS:HG2	2.06	0.56
3:TJ:14:ASN:ND2	3:TJ:67:ASP:OD2	2.31	0.56
3:TJ:142:GLY:N	25:TJ:501:GTP:O3B	2.38	0.56
3:UD:31:ASP:OD2	3:UD:33:THR:OG1	2.24	0.56
3:VD:117:LEU:HA	3:VD:120:VAL:HG22	1.87	0.56
3:VF:36:TYR:CE2	3:VF:38:GLY:HA2	2.39	0.56
3:VF:342:VAL:HG22	3:VF:344:TRP:H	1.69	0.56
2:VG:32:PRO:O	2:VG:85:GLN:NE2	2.37	0.56
2:VG:390:ARG:HA	2:VG:393:HIS:NE2	2.21	0.56
2:WE:390:ARG:HA	2:WE:393:HIS:NE2	2.21	0.56
2:WG:53:PHE:HB3	2:WG:61:HIS:HB3	1.86	0.56
3:WH:312:THR:HA	3:WH:348:ASN:HB2	1.86	0.56
24:YJ:14:LYS:HZ1	24:YJ:15:TYR:HE1	1.54	0.56
24:YN:46:ILE:HB	24:YN:106:GLN:HE22	1.70	0.56
24:YN:50:GLN:HA	24:YN:53:MET:HG3	1.86	0.56
4:B7:38:ILE:O	4:B7:41:GLU:HG3	2.06	0.56
3:BF:246:LEU:HD12	3:BF:352:ALA:HB1	1.86	0.56
3:BH:345:ILE:HG13	3:BH:346:PRO:O	2.06	0.56
5:C3:330:ILE:HG12	7:E2:186:ARG:HH22	1.71	0.56
5:C8:179:ARG:O	5:C8:183:ARG:HG2	2.06	0.56
3:CF:36:TYR:CE2	3:CF:38:GLY:HA2	2.41	0.56
2:CG:255:PHE:HE1	2:CG:316:CYS:HG	1.52	0.56
3:CH:163:ILE:HD13	3:CH:250:LEU:HB2	1.87	0.56
6:D7:325:THR:O	6:D7:329:ILE:HD12	2.05	0.56
6:D8:198:VAL:O	6:D8:202:ARG:HG2	2.05	0.56
3:DD:247:ASN:ND2	25:DE:501:GTP:O1G	2.38	0.56
2:DE:217:LEU:HB3	2:DE:219:ILE:HG12	1.86	0.56
3:ED:11:GLN:HE21	25:ED:501:GTP:H3'	1.70	0.56
2:EE:180:ALA:HB1	2:EE:182:VAL:HG12	1.88	0.56
2:EE:311:LYS:N	2:EE:382:THR:OG1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EG:392:ASP:HB2	2:EG:422:ARG:HH12	1.70	0.56
3:EH:375:GLN:O	3:EH:379:LYS:HB2	2.05	0.56
8:F2:214:ASN:HD21	8:F2:339:THR:CA	2.19	0.56
3:FD:316:VAL:HA	3:FD:352:ALA:O	2.05	0.56
2:FE:213:CYS:HB3	2:FE:222:PRO:HG3	1.87	0.56
9:G1:312:VAL:HG23	9:G1:313:LEU:HD23	1.86	0.56
9:G2:392:ASP:OD1	9:G2:396:ASN:ND2	2.30	0.56
10:G5:489:PRO:HG3	10:G5:514:ASN:HB3	1.87	0.56
2:GG:262:TYR:HE1	3:GH:393:ALA:HA	1.69	0.56
2:GI:208:ALA:N	2:GI:304:LYS:HZ1	2.03	0.56
2:HI:311:LYS:HZ2	2:HI:342:GLN:HB3	1.71	0.56
3:IF:375:GLN:HA	3:IF:378:PHE:CE2	2.41	0.56
3:IH:11:GLN:HG3	25:IH:501:GTP:PA	2.46	0.56
3:JD:40:SER:HB2	3:JD:43:GLN:HG2	1.86	0.56
2:JE:88:HIS:HB3	2:JE:91:GLN:HB3	1.88	0.56
2:JE:329:ASN:HA	2:JE:332:ILE:HG12	1.86	0.56
14:K3:250:GLN:HB2	14:K3:255:VAL:HG21	1.86	0.56
2:KG:438:ASP:N	2:KG:438:ASP:OD1	2.39	0.56
15:L3:75:LYS:NZ	15:L3:76:LYS:O	2.37	0.56
2:LG:12:ALA:HB2	25:LG:501:GTP:H5''	1.87	0.56
3:ND:345:ILE:HD12	3:ND:346:PRO:HD2	1.87	0.56
2:NG:53:PHE:O	2:NG:64:ARG:NH1	2.38	0.56
19:P2:378:HIS:CD2	19:P2:394:ASP:HB3	2.40	0.56
2:PE:141:PHE:CD2	2:PE:173:PRO:HD3	2.40	0.56
2:PG:188:ILE:HD11	2:PG:425:LEU:HB2	1.88	0.56
2:PG:306:ASP:OD2	2:PG:308:ARG:HG2	2.06	0.56
3:PH:54:ALA:HB3	3:PH:58:LYS:HB3	1.87	0.56
2:PI:99:ALA:HB3	2:PI:145:THR:HA	1.86	0.56
2:PI:116:ASP:OD1	2:PI:117:LEU:N	2.38	0.56
3:QF:12:CYS:SG	25:QF:501:GTP:H5'	2.46	0.56
3:QH:68:LEU:HD12	3:QH:97:ALA:HB2	1.87	0.56
2:QI:166:LYS:O	2:QI:199:ASP:HB2	2.05	0.56
3:RF:12:CYS:SG	3:RF:13:GLY:N	2.79	0.56
3:RF:253:LEU:O	3:RF:257:MET:HG2	2.05	0.56
2:RG:311:LYS:N	2:RG:382:THR:OG1	2.38	0.56
3:RH:198:GLU:HA	3:RH:266:PHE:HE2	1.69	0.56
3:RJ:87:PRO:HA	3:RJ:90:PHE:CD2	2.41	0.56
2:SE:338:LYS:HZ2	2:SE:340:THR:H	1.53	0.56
3:SH:41:ASP:HA	3:SH:44:LEU:HD12	1.87	0.56
3:SH:193:VAL:HG11	3:SH:414:ASN:HD21	1.70	0.56
2:SI:1:MET:O	2:SI:133:GLN:NE2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:375:GLN:HA	3:SJ:378:PHE:CZ	2.40	0.56
2:TG:287:SER:OG	2:TG:290:GLU:OE1	2.19	0.56
3:TH:380:ARG:O	3:TH:383:GLU:HG3	2.04	0.56
3:TJ:315:ALA:O	3:TJ:351:THR:HA	2.06	0.56
2:UE:319:TYR:HA	2:UE:374:ALA:O	2.05	0.56
2:UG:169:PHE:CD1	2:UG:202:PHE:HB2	2.41	0.56
3:UH:28:HIS:HB2	3:UH:30:ILE:HD12	1.85	0.56
3:VF:39:ASP:OD1	3:VF:43:GLN:NE2	2.38	0.56
3:VF:41:ASP:OD1	3:VF:42:LEU:N	2.39	0.56
3:VF:109:GLY:HA2	3:VF:112:LEU:HG	1.87	0.56
3:VF:111:GLU:N	3:VF:111:GLU:OE1	2.38	0.56
2:VG:408:TYR:HB3	2:VG:413:MET:HG2	1.88	0.56
3:WH:392:LYS:HB2	3:WH:395:LEU:HD22	1.88	0.56
22:XC:26:ASP:N	22:XC:26:ASP:OD1	2.39	0.56
22:XD:84:LYS:HZ1	23:XJ:241:ASN:H	1.53	0.56
24:YI:61:THR:O	24:YI:65:ILE:HG12	2.05	0.56
2:AE:358:GLN:NE2	2:AE:359:PRO:O	2.38	0.56
2:AG:338:LYS:HZ2	2:AG:340:THR:H	1.52	0.56
3:AH:319:GLY:HA2	3:AH:357:PRO:HG3	1.88	0.56
2:AI:392:ASP:HB2	2:AI:422:ARG:HH22	1.71	0.56
3:CF:20:PHE:CZ	3:CF:24:ILE:HD11	2.41	0.56
3:CF:186:THR:HA	3:CF:189:VAL:HG12	1.87	0.56
2:CI:322:ASP:HB3	2:CI:373:ARG:HH12	1.69	0.56
3:CJ:378:PHE:CE1	3:CJ:419:VAL:HG22	2.41	0.56
6:D8:255:GLU:OE1	6:D8:255:GLU:N	2.38	0.56
3:DD:216:LYS:HB3	3:DD:276:ARG:NH2	2.21	0.56
2:DE:101:ASN:HA	2:DE:144:GLY:HA2	1.86	0.56
2:DE:332:ILE:HD11	3:DF:175:VAL:HG11	1.87	0.56
3:ED:36:TYR:CE2	3:ED:44:LEU:HD13	2.41	0.56
3:ED:232:THR:HB	3:ED:270:PHE:CZ	2.41	0.56
2:EG:40:LYS:H	9:G2:421:ARG:NH1	2.03	0.56
3:EH:184:ASN:ND2	3:EH:398:TYR:OH	2.39	0.56
10:G5:171:ASP:O	10:G5:174:THR:OG1	2.19	0.56
10:G5:740:ILE:HA	10:G5:744:GLY:HA3	1.86	0.56
3:GF:194:GLU:OE1	3:GF:195:ASN:ND2	2.39	0.56
3:GH:324:LYS:HD3	2:GI:210:TYR:CZ	2.41	0.56
11:H3:282:ILE:HD12	11:H3:282:ILE:H	1.70	0.56
3:HD:12:CYS:SG	3:HD:13:GLY:N	2.79	0.56
3:HD:31:ASP:HB3	3:HD:37:HIS:NE2	2.21	0.56
3:HF:385:PHE:HZ	3:HF:408:PHE:HB3	1.70	0.56
2:HG:119:LEU:HA	2:HG:122:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HG:287:SER:OG	2:HG:290:GLU:OE1	2.22	0.56
2:HG:327:ASP:N	2:HG:327:ASP:OD1	2.38	0.56
3:HH:325:GLU:O	3:HH:329:GLN:HG2	2.06	0.56
2:IG:214:ARG:NH1	2:IG:215:ARG:HG3	2.21	0.56
3:IH:313:VAL:HG23	3:IH:349:VAL:HA	1.87	0.56
2:II:176:GLN:NE2	2:II:207:GLU:OE1	2.39	0.56
3:JD:36:TYR:CZ	3:JD:38:GLY:HA2	2.41	0.56
3:JF:12:CYS:SG	25:JF:501:GTP:H5'	2.45	0.56
2:JG:208:ALA:N	2:JG:304:LYS:HZ1	2.03	0.56
14:K2:488:THR:C	14:K2:490:ALA:H	2.09	0.56
3:KD:41:ASP:O	3:KD:44:LEU:N	2.39	0.56
3:KD:316:VAL:HG22	3:KD:352:ALA:HB3	1.86	0.56
15:L2:206:GLU:O	15:L2:209:LYS:HG2	2.05	0.56
3:LD:190:HIS:NE2	3:LD:414:ASN:OD1	2.39	0.56
2:ME:117:LEU:HD11	17:N2:90:THR:HA	1.87	0.56
2:MG:187:SER:O	2:MG:191:THR:HG23	2.05	0.56
2:MI:234:ILE:HD11	2:MI:272:TYR:HB2	1.88	0.56
2:NE:438:ASP:HA	3:NF:391:ARG:HH12	1.71	0.56
2:NG:5:ILE:O	2:NG:135:PHE:HA	2.05	0.56
3:OH:56:GLY:HA2	24:YN:59:ASN:HA	1.86	0.56
2:OI:142:GLY:HA2	2:OI:186:ASN:OD1	2.05	0.56
19:P2:229:ILE:H	19:P2:243:GLY:HA3	1.71	0.56
19:P2:455:GLU:OE1	19:P2:457:LEU:HD22	2.06	0.56
3:PF:2:ARG:HA	3:PF:129:CYS:O	2.06	0.56
2:PG:117:LEU:O	2:PG:121:ARG:HG2	2.05	0.56
3:PH:197:ASP:OD1	3:PH:198:GLU:N	2.39	0.56
2:RG:117:LEU:O	2:RG:121:ARG:HG2	2.04	0.56
2:RG:293:ASN:HA	2:RG:296:PHE:CE2	2.41	0.56
3:RH:277:GLY:O	3:RH:281:TYR:HB2	2.06	0.56
3:SF:164:MET:HG3	3:SF:197:ASP:N	2.21	0.56
2:SG:279:GLU:O	2:SG:283:HIS:HD2	1.88	0.56
2:UE:166:LYS:O	2:UE:199:ASP:HB2	2.05	0.56
2:UE:311:LYS:N	2:UE:382:THR:OG1	2.36	0.56
3:UH:285:THR:O	3:UH:288:GLU:HG3	2.05	0.56
3:VD:63:ALA:O	3:VD:89:ASN:ND2	2.39	0.56
2:VE:75:VAL:HG22	2:VE:79:ARG:HH21	1.70	0.56
2:VE:319:TYR:HA	2:VE:374:ALA:O	2.04	0.56
3:VF:36:TYR:OH	3:VF:39:ASP:OD1	2.20	0.56
2:WE:54:SER:H	2:WE:62:VAL:H	1.52	0.56
2:WE:85:GLN:OE1	2:WE:85:GLN:N	2.30	0.56
22:XC:97:LYS:HZ2	22:XC:99:VAL:HB	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:XL:58:LYS:O	23:XL:62:ARG:HG3	2.06	0.56
23:XL:148:ILE:O	23:XL:152:THR:HG23	2.05	0.56
24:YJ:2:ASN:O	24:YJ:5:LYS:HG3	2.06	0.56
24:YK:14:LYS:HZ3	24:YK:72:ILE:HD13	1.71	0.56
1:A2:71:ARG:O	1:A2:74:LYS:HG3	2.05	0.56
1:A3:159:GLU:O	1:A3:162:ARG:HB3	2.06	0.56
1:A3:162:ARG:HD2	1:A3:165:ARG:NH1	2.19	0.56
1:A3:214:LEU:O	1:A3:218:LEU:HG	2.06	0.56
2:AE:115:VAL:HA	2:AE:118:VAL:HG22	1.88	0.56
2:AE:385:ALA:HA	2:AE:388:TRP:CD1	2.41	0.56
2:AG:272:TYR:HD2	2:AG:275:VAL:HG22	1.71	0.56
2:AI:116:ASP:OD1	2:AI:117:LEU:N	2.37	0.56
4:B2:137:LEU:O	4:B2:140:GLU:HG2	2.06	0.56
4:B3:187:ARG:NH1	7:E2:154:ASN:HA	2.21	0.56
2:BE:207:GLU:HB2	2:BE:304:LYS:HZ1	1.70	0.56
2:BI:70:LEU:HB3	2:BI:97:GLU:O	2.05	0.56
5:C3:281:VAL:HB	5:C4:394:LYS:HE2	1.86	0.56
3:CJ:11:GLN:HA	3:CJ:14:ASN:ND2	2.20	0.56
3:DD:273:LEU:H	3:DD:292:GLN:HE22	1.54	0.56
2:DG:189:LEU:HD23	2:DG:192:HIS:CE1	2.36	0.56
3:DH:309:ARG:HE	3:DH:426:GLN:HE21	1.54	0.56
2:EE:311:LYS:HE3	2:EE:344:VAL:HG12	1.87	0.56
8:F2:357:LEU:HD22	8:F2:455:LEU:HB2	1.87	0.56
8:F2:360:GLN:O	8:F2:364:ILE:HG12	2.06	0.56
8:F7:201:ARG:NH2	8:F7:207:VAL:H	2.04	0.56
3:FD:419:VAL:HG12	3:FD:423:GLN:NE2	2.19	0.56
3:FF:234:SER:O	3:FF:238:THR:HG23	2.05	0.56
2:HG:213:CYS:SG	2:HG:222:PRO:HG3	2.46	0.56
3:HH:1:MET:SD	3:HH:2:ARG:N	2.79	0.56
2:IG:144:GLY:N	25:IG:501:GTP:O2B	2.38	0.56
3:JF:261:PRO:HD3	2:JG:406:HIS:CD2	2.40	0.56
14:K3:185:ARG:O	14:K3:187:LYS:N	2.38	0.56
2:KI:216:ASN:HD21	2:KI:275:VAL:HG23	1.71	0.56
2:KI:226:ASN:ND2	2:KI:367:ASP:OD2	2.30	0.56
15:L2:26:ARG:HH22	15:L2:31:PHE:HB3	1.70	0.56
3:LD:256:ASN:HD21	2:LE:182:VAL:HG12	1.69	0.56
2:LE:306:ASP:OD2	2:LE:309:HIS:N	2.38	0.56
3:MF:172:SER:HB3	3:MF:175:VAL:O	2.05	0.56
3:MF:358:PRO:HB2	3:MF:361:LEU:HD21	1.86	0.56
2:MI:55:GLU:HB2	2:MI:61:HIS:CD2	2.41	0.56
3:ND:415:MET:O	3:ND:419:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:245:ASP:HA	2:NE:249:ASN:HD21	1.69	0.56
3:NF:7:LEU:HD13	3:NF:64:VAL:HB	1.87	0.56
3:NF:378:PHE:HA	3:NF:381:ILE:HG22	1.88	0.56
3:NH:46:ARG:HH12	2:NI:73:THR:HG23	1.69	0.56
2:NI:205:ASP:OD2	2:NI:304:LYS:NZ	2.35	0.56
2:NI:239:THR:OG1	2:NI:243:ARG:NH1	2.39	0.56
2:NI:308:ARG:NH2	2:NI:340:THR:O	2.38	0.56
2:OG:214:ARG:NH1	2:OG:215:ARG:HG3	2.20	0.56
3:OH:117:LEU:HA	3:OH:120:VAL:HG22	1.88	0.56
19:P1:567:HIS:NE2	19:P1:589:ASN:OD1	2.38	0.56
19:P2:106:ARG:O	19:P2:145:ARG:NH1	2.39	0.56
2:PE:113:GLU:OE1	2:PE:113:GLU:N	2.38	0.56
3:PH:6:HIS:CE1	3:PH:136:THR:HG23	2.40	0.56
20:Q2:1359:SER:HB2	20:Q2:1362:GLU:HG2	1.86	0.56
20:Q2:1421:GLN:NE2	20:Q2:1467:GLY:HA2	2.21	0.56
20:Q2:1506:SER:HB2	20:Q2:1509:ASP:HB2	1.87	0.56
3:QF:48:ASN:C	3:QF:62:ARG:HH22	2.09	0.56
2:QG:192:HIS:HA	2:QG:195:LEU:HD23	1.87	0.56
3:QH:246:LEU:HB3	3:QH:353:VAL:H	1.69	0.56
2:QI:208:ALA:HB3	2:QI:302:MET:HA	1.87	0.56
3:RH:415:MET:O	3:RH:419:VAL:HG23	2.06	0.56
2:RI:152:LEU:HB2	2:RI:156:ARG:HH12	1.70	0.56
2:SE:399:TYR:OH	2:SE:419:SER:OG	2.20	0.56
2:SG:186:ASN:OD1	2:SG:187:SER:N	2.39	0.56
3:SH:392:LYS:HB3	3:SH:395:LEU:HD13	1.87	0.56
3:SJ:362:LYS:HG3	3:SJ:363:MET:HG2	1.88	0.56
3:TH:143:THR:O	3:TH:147:MET:HG3	2.06	0.56
3:UD:43:GLN:HB3	3:UD:242:PHE:HE1	1.70	0.56
3:UD:55:THR:HG23	3:VD:283:ALA:HA	1.86	0.56
3:UD:269:GLY:HA3	3:UD:367:PHE:HB3	1.86	0.56
3:VH:72:THR:O	3:VH:75:SER:OG	2.21	0.56
2:WE:16:ILE:HG22	2:WE:228:ASN:OD1	2.06	0.56
2:WE:311:LYS:HE3	2:WE:344:VAL:HA	1.87	0.56
2:WG:5:ILE:HD11	2:WG:129:CYS:SG	2.46	0.56
2:WG:186:ASN:OD1	2:WG:187:SER:N	2.39	0.56
2:WI:104:ALA:HA	2:WI:107:HIS:HB3	1.88	0.56
2:WI:207:GLU:HB2	2:WI:304:LYS:NZ	2.20	0.56
2:WI:224:TYR:CE1	25:WI:501:GTP:C5	2.93	0.56
22:XE:169:ASP:OD1	22:XE:170:ARG:N	2.38	0.56
24:YI:14:LYS:HZ3	24:YI:72:ILE:HD13	1.71	0.56
2:BE:6:SER:OG	2:BE:8:HIS:NE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:70:LEU:HB3	2:BG:97:GLU:O	2.05	0.56
2:BI:256:GLN:O	2:BI:260:VAL:HG12	2.05	0.56
3:CF:11:GLN:HA	3:CF:14:ASN:ND2	2.21	0.56
2:CI:16:ILE:HG22	2:CI:228:ASN:HD22	1.71	0.56
6:D4:426:ASP:OD1	6:D4:427:ARG:N	2.39	0.56
3:DD:77:ARG:NH1	3:DD:77:ARG:O	2.36	0.56
2:DG:196:GLU:N	2:DG:196:GLU:OE1	2.39	0.56
7:E2:182:ASP:OD1	7:E2:183:PHE:N	2.39	0.56
8:F2:409:ARG:N	8:F3:289:THR:HG21	2.21	0.56
8:F7:377:LEU:HD13	8:F7:380:ARG:HD2	1.86	0.56
3:FH:173:PRO:HA	3:FH:380:ARG:NH2	2.21	0.56
9:G1:391:GLU:O	9:G1:395:GLN:NE2	2.39	0.56
10:G5:213:TYR:CE2	10:G5:215:SER:HB2	2.40	0.56
2:HE:12:ALA:O	25:HE:501:GTP:N1	2.39	0.56
3:HH:322:SER:HB2	2:HI:223:THR:HG22	1.88	0.56
2:IG:21:TRP:CZ3	2:IG:63:PRO:HB3	2.40	0.56
2:IG:226:ASN:HA	2:IG:229:ARG:HE	1.71	0.56
2:II:414:GLU:N	2:II:414:GLU:OE1	2.38	0.56
2:JE:363:VAL:HG13	2:JE:366:GLY:HA3	1.87	0.56
2:JE:390:ARG:HA	2:JE:393:HIS:ND1	2.21	0.56
14:K2:175:ASN:O	14:K2:179:VAL:HG13	2.05	0.56
14:K2:477:ALA:O	14:K2:481:VAL:HG23	2.04	0.56
3:KD:36:TYR:CZ	3:KD:38:GLY:HA2	2.41	0.56
2:KE:127:ASP:OD1	2:KE:128:LEU:N	2.39	0.56
2:KG:260:VAL:HG13	3:KH:397:TRP:HZ2	1.70	0.56
15:L2:237:LEU:O	15:L2:241:ILE:HG12	2.06	0.56
15:L3:145:TYR:O	15:L3:148:LYS:NZ	2.38	0.56
2:LE:5:ILE:HB	2:LE:135:PHE:CD1	2.41	0.56
3:LF:152:ILE:O	3:LF:156:ARG:HG2	2.06	0.56
3:LF:234:SER:O	3:LF:238:THR:HG23	2.06	0.56
3:LH:215:LEU:HD23	3:LH:217:LEU:HD21	1.88	0.56
2:ME:171:ILE:HD11	2:ME:206:ASN:H	1.71	0.56
3:MF:324:LYS:HG3	3:MF:325:GLU:N	2.21	0.56
3:NF:175:VAL:HG22	3:NF:177:ASP:H	1.70	0.56
2:NI:236:SER:O	2:NI:243:ARG:NH2	2.35	0.56
3:OD:324:LYS:NZ	2:OE:222:PRO:O	2.30	0.56
3:OD:378:PHE:CD1	3:OD:419:VAL:HG22	2.41	0.56
3:OH:245:GLN:HE22	2:OI:15:GLN:NE2	2.04	0.56
21:R2:258:GLN:OE1	21:R2:262:LYS:NZ	2.33	0.56
2:RG:190:THR:O	2:RG:194:THR:OG1	2.16	0.56
3:RJ:31:ASP:OD2	3:RJ:35:THR:OG1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:271:ALA:HB1	3:RJ:272:PRO:HD2	1.88	0.56
3:SF:392:LYS:HB2	3:SF:395:LEU:HD12	1.88	0.56
2:SG:332:ILE:HG13	2:SG:336:LYS:HZ3	1.71	0.56
3:TF:313:VAL:HG23	3:TF:349:VAL:HA	1.87	0.56
2:TI:220:GLU:O	2:TI:221:ARG:NE	2.38	0.56
2:TI:263:PRO:C	2:TI:264:ARG:HD3	2.26	0.56
3:UD:4:ILE:HD11	3:UD:131:GLN:HB2	1.86	0.56
3:UH:40:SER:HB2	3:UH:43:GLN:HG2	1.87	0.56
2:VE:1:MET:O	2:VE:133:GLN:NE2	2.39	0.56
3:VF:46:ARG:HB3	3:VF:241:ARG:HB2	1.88	0.56
3:VF:330:MET:HE3	3:VF:333:VAL:HG13	1.88	0.56
3:VF:334:GLN:HA	3:VF:341:PHE:CE2	2.40	0.56
2:VG:192:HIS:HA	2:VG:195:LEU:HD23	1.87	0.56
3:WF:80:PRO:O	3:WF:83:GLN:NE2	2.24	0.56
2:WG:295:CYS:HB2	2:WG:377:MET:HG2	1.87	0.56
2:WI:234:ILE:O	2:WI:237:SER:OG	2.21	0.56
2:WI:312:TYR:HB2	2:WI:343:PHE:CD1	2.41	0.56
22:XE:33:HIS:HE1	22:XE:50:GLU:HB3	1.69	0.56
22:XE:55:SER:HA	22:XE:157:HIS:CE1	2.40	0.56
23:XJ:58:LYS:O	23:XJ:62:ARG:HG3	2.05	0.56
23:XL:66:PRO:HB2	23:XL:81:LYS:HB2	1.87	0.56
24:YL:59:ASN:HB2	24:YL:62:HIS:CE1	2.41	0.56
3:BF:218:THR:OG1	3:BF:219:THR:N	2.39	0.56
2:BG:79:ARG:HD3	11:H3:17:ILE:HG22	1.88	0.56
3:BH:28:HIS:CE1	3:BH:47:ILE:HD13	2.40	0.56
2:CG:25:CYS:HB2	2:CG:30:ILE:HB	1.88	0.56
2:CG:346:TRP:CZ3	2:CG:435:VAL:HG23	2.41	0.56
6:D3:234:GLU:H	9:G2:51:ARG:HH12	1.54	0.56
6:D7:324:LYS:HG3	6:D8:71:ARG:HH22	1.71	0.56
2:DE:390:ARG:HA	2:DE:393:HIS:NE2	2.20	0.56
2:DG:144:GLY:N	25:DG:501:GTP:O2B	2.36	0.56
3:ED:81:PHE:O	3:ED:84:ILE:HG22	2.05	0.56
2:EG:346:TRP:HE1	3:EH:391:ARG:HD2	1.71	0.56
3:EH:284:LEU:HD11	3:EH:362:LYS:HB2	1.85	0.56
8:F2:162:ARG:HB3	8:F2:311:ARG:HH12	1.71	0.56
3:FD:350:LYS:HE2	2:FE:181:VAL:HG13	1.87	0.56
2:FE:98:ASP:O	2:FE:105:ARG:NH2	2.32	0.56
2:FE:171:ILE:HA	2:FE:204:VAL:HG23	1.88	0.56
3:FF:216:LYS:HB3	3:FF:276:ARG:CZ	2.36	0.56
2:GG:390:ARG:HA	2:GG:393:HIS:CD2	2.41	0.56
3:GH:130:LEU:H	3:GH:162:ARG:HH12	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:H3:38:THR:O	11:H3:42:LEU:HG	2.06	0.56
11:H4:311:GLU:O	11:H4:316:SER:HA	2.06	0.56
2:HE:345:ASP:OD1	2:HE:345:ASP:N	2.39	0.56
2:HG:216:ASN:ND2	2:HG:275:VAL:HG23	2.16	0.56
2:JE:208:ALA:N	2:JE:304:LYS:HZ1	2.04	0.56
3:JH:197:ASP:OD1	3:JH:198:GLU:N	2.39	0.56
3:JH:378:PHE:CD1	3:JH:419:VAL:HG22	2.40	0.56
3:JH:406:MET:O	3:JH:409:THR:OG1	2.19	0.56
2:KE:155:GLU:O	2:KE:159:VAL:HG13	2.05	0.56
3:KF:47:ILE:HG13	3:KF:51:TYR:HB2	1.86	0.56
2:KG:5:ILE:HB	2:KG:135:PHE:CD1	2.41	0.56
15:L3:64:LYS:O	15:L3:68:LYS:NZ	2.39	0.56
2:LG:208:ALA:N	2:LG:304:LYS:HZ1	2.04	0.56
16:M3:44:ARG:HH22	16:M3:96:LEU:HD12	1.71	0.56
2:ME:21:TRP:NE1	2:ME:63:PRO:HB3	2.20	0.56
2:ME:254:GLU:N	2:ME:254:GLU:OE1	2.39	0.56
2:MG:166:LYS:N	2:MG:199:ASP:OD2	2.38	0.56
3:MH:20:PHE:CZ	3:MH:24:ILE:HD11	2.40	0.56
3:ND:306:ARG:NH1	3:ND:340:TYR:HB3	2.21	0.56
2:NE:132:LEU:HG	2:NE:164:LYS:HE2	1.88	0.56
2:NE:321:GLY:HA3	2:NE:372:GLN:O	2.06	0.56
2:NG:200:CYS:HA	2:NG:266:HIS:HB2	1.87	0.56
3:NH:275:SER:O	3:NH:279:GLN:NE2	2.39	0.56
2:NI:406:HIS:HA	2:NI:409:VAL:HG22	1.88	0.56
2:OE:81:GLY:O	2:OE:84:ARG:NH1	2.39	0.56
2:OE:251:ASP:HB3	2:OE:254:GLU:OE1	2.06	0.56
3:OH:4:ILE:N	3:OH:49:VAL:O	2.37	0.56
3:OH:36:TYR:CZ	3:OH:38:GLY:HA2	2.41	0.56
2:OI:118:VAL:HG11	2:OI:149:PHE:HZ	1.71	0.56
19:P2:504:LEU:N	19:P2:522:THR:OG1	2.35	0.56
19:P2:559:HIS:NE2	19:P2:580:THR:HG21	2.21	0.56
2:PE:234:ILE:O	2:PE:237:SER:OG	2.23	0.56
2:PE:358:GLN:NE2	2:PE:359:PRO:O	2.36	0.56
2:PE:388:TRP:HB3	2:PE:429:GLU:OE2	2.06	0.56
3:PH:253:LEU:O	3:PH:257:MET:HG2	2.06	0.56
2:QE:9:VAL:HG11	2:QE:150:ALA:HB2	1.87	0.56
2:QG:98:ASP:OD1	2:QG:99:ALA:N	2.38	0.56
2:RE:240:ALA:HA	2:RE:243:ARG:HB2	1.88	0.56
3:RJ:123:GLU:OE2	3:RJ:126:SER:OG	2.22	0.56
3:SH:249:ASP:HB3	3:SH:252:LYS:HB2	1.87	0.56
3:SJ:2:ARG:HB3	3:SJ:131:GLN:CD	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:380:ARG:O	3:TF:384:GLN:HG2	2.06	0.56
3:TH:47:ILE:HG12	3:TH:59:TYR:CG	2.40	0.56
2:TI:34:GLY:HA2	2:TI:86:LEU:HD21	1.87	0.56
3:UD:137:HIS:CE1	3:UD:166:THR:HB	2.40	0.56
3:UF:84:ILE:O	3:UF:86:ARG:NH1	2.38	0.56
3:VD:41:ASP:N	3:VD:41:ASP:OD1	2.39	0.56
3:VF:152:ILE:O	3:VF:156:ARG:HG2	2.06	0.56
3:VF:378:PHE:CD1	3:VF:419:VAL:HG22	2.41	0.56
3:VH:311:LEU:HB2	3:VH:370:ASN:O	2.06	0.56
3:VH:334:GLN:HA	3:VH:341:PHE:HE2	1.71	0.56
2:WG:320:ARG:HH21	2:WG:358:GLN:HE21	1.52	0.56
24:YL:33:ARG:NH2	24:YL:39:LYS:O	2.34	0.56
24:YN:33:ARG:NH2	24:YN:41:ARG:O	2.39	0.56
2:AE:166:LYS:O	2:AE:199:ASP:HB2	2.05	0.56
3:AF:43:GLN:O	3:AF:47:ILE:HG23	2.06	0.56
3:AF:325:GLU:HB3	2:AG:221:ARG:NH1	2.20	0.56
2:AG:89:PRO:HD2	2:BG:280:LYS:NZ	2.21	0.56
2:AG:161:TYR:HB3	2:AG:164:LYS:NZ	2.21	0.56
2:AG:324:VAL:HG23	2:AG:327:ASP:H	1.71	0.56
4:B3:82:LEU:HA	4:B3:85:LEU:HD12	1.87	0.56
4:B7:307:LYS:NZ	4:B7:349:ILE:HD13	2.21	0.56
4:B8:266:ARG:HA	4:B8:269:LEU:HD12	1.86	0.56
2:BE:75:VAL:HG23	2:BE:92:LEU:HD12	1.88	0.56
5:C3:145:ASN:OD1	5:C4:419:ARG:NH1	2.39	0.56
3:CF:306:ARG:HH22	3:CF:340:TYR:HD2	1.54	0.56
3:CH:47:ILE:HA	3:CH:241:ARG:HH12	1.70	0.56
3:CJ:27:GLU:HA	3:CJ:359:ARG:HE	1.70	0.56
3:CJ:198:GLU:HG2	3:CJ:266:PHE:HE2	1.71	0.56
2:DE:143:GLY:HA2	25:DE:501:GTP:O5'	2.06	0.56
3:ED:19:LYS:NZ	3:ED:223:GLY:O	2.39	0.56
2:EE:208:ALA:N	2:EE:304:LYS:HZ1	2.03	0.56
8:F2:201:ARG:CZ	8:F2:206:LEU:HA	2.36	0.56
3:FH:310:TYR:CD1	3:FH:371:SER:HB2	2.41	0.56
9:G2:240:LYS:H	9:G2:269:MET:CE	2.19	0.56
10:G5:232:PHE:HZ	10:G5:353:LEU:HB3	1.71	0.56
3:GH:380:ARG:O	3:GH:384:GLN:HG2	2.05	0.56
3:HD:293:MET:CE	3:HD:367:PHE:HB3	2.36	0.56
3:HH:405:GLU:OE1	3:HH:405:GLU:N	2.38	0.56
3:JF:31:ASP:OD1	3:JF:35:THR:N	2.39	0.56
3:KD:7:LEU:HD13	3:KD:64:VAL:HB	1.87	0.56
3:KD:101:TRP:CZ3	3:KD:187:LEU:HD13	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:388:TRP:HB3	2:KE:425:LEU:HD11	1.88	0.56
2:LI:326:LYS:HA	2:LI:329:ASN:HD21	1.71	0.56
16:M3:63:ASN:O	16:M3:67:ARG:NH2	2.35	0.56
3:MF:68:LEU:HA	3:MF:93:GLY:H	1.71	0.56
3:MH:309:ARG:HG2	3:MH:340:TYR:HA	1.87	0.56
17:N3:160:LYS:HA	17:N3:166:PHE:CD1	2.41	0.56
3:ND:246:LEU:HB2	3:ND:352:ALA:HB1	1.87	0.56
2:NE:107:HIS:CD2	2:NE:152:LEU:HB2	2.40	0.56
2:NG:234:ILE:O	2:NG:237:SER:OG	2.20	0.56
3:NH:47:ILE:HD11	3:NH:51:TYR:HB2	1.87	0.56
3:NH:374:ILE:HG22	3:NH:378:PHE:HD2	1.69	0.56
18:O2:102:LEU:HD12	18:O2:109:LEU:HB3	1.88	0.56
3:OF:164:MET:SD	3:OF:196:THR:HA	2.46	0.56
19:P1:275:PHE:HB3	19:P1:285:LYS:HB2	1.88	0.56
19:P1:440:GLU:OE1	19:P1:442:ARG:NH2	2.37	0.56
2:PE:192:HIS:HA	2:PE:195:LEU:HD23	1.87	0.56
2:QE:107:HIS:HA	2:QE:152:LEU:HD23	1.88	0.56
2:SG:19:ALA:O	2:SG:23:LEU:HG	2.06	0.56
3:SH:32:PRO:O	3:SH:83:GLN:NE2	2.24	0.56
3:SJ:111:GLU:OE1	3:SJ:111:GLU:N	2.39	0.56
3:TH:139:LEU:HD21	3:TH:170:VAL:HG22	1.88	0.56
2:UG:262:TYR:OH	3:UH:391:ARG:O	2.22	0.56
3:UH:8:GLN:NE2	3:UH:13:GLY:O	2.39	0.56
3:VD:164:MET:HE3	3:VD:197:ASP:N	2.21	0.56
3:VH:16:ILE:HD11	3:VH:136:THR:HB	1.86	0.56
3:WF:322:SER:OG	3:WF:324:LYS:NZ	2.39	0.56
2:WG:192:HIS:HA	2:WG:195:LEU:HD23	1.88	0.56
2:WI:315:CYS:HB2	2:WI:350:GLY:O	2.06	0.56
2:WI:389:ALA:HA	2:WI:392:ASP:OD2	2.06	0.56
23:XL:141:LEU:HB3	23:XL:180:ILE:HD13	1.88	0.56
24:YL:122:VAL:HA	24:YL:125:LEU:HD12	1.87	0.56
2:AE:160:ASP:OD1	2:AE:161:TYR:N	2.38	0.55
3:AH:350:LYS:HE3	2:AI:181:VAL:H	1.70	0.55
2:AI:47:ASP:O	2:AI:50:ASN:N	2.20	0.55
2:AI:337:THR:O	2:AI:339:ARG:NH1	2.37	0.55
4:B3:123:ARG:HG3	4:B3:124:ARG:H	1.71	0.55
4:B7:75:LYS:HA	4:B7:179:LYS:HE3	1.88	0.55
2:BE:38:SER:O	2:BE:40:LYS:HD3	2.06	0.55
3:BF:36:TYR:CE2	3:BF:44:LEU:HD13	2.41	0.55
3:BF:152:ILE:HA	3:BF:155:ILE:HG12	1.89	0.55
2:BG:30:ILE:HA	2:BG:36:MET:HE1	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:320:ARG:HD3	2:BG:360:PRO:HG3	1.88	0.55
5:C3:149:ARG:NH2	5:C4:412:CYS:SG	2.72	0.55
5:C8:418:LEU:HD21	7:E2:112:HIS:CD2	2.41	0.55
3:CH:117:LEU:HD11	3:CH:154:LYS:HD2	1.87	0.55
2:CI:9:VAL:HG13	2:CI:139:HIS:HB3	1.87	0.55
3:DH:114:ASP:N	3:DH:114:ASP:OD1	2.39	0.55
3:ED:321:MET:SD	3:ED:363:MET:SD	3.04	0.55
2:EE:5:ILE:O	2:EE:135:PHE:HA	2.07	0.55
2:EE:100:ALA:HB3	2:EE:105:ARG:HD3	1.88	0.55
3:EF:8:GLN:HG2	3:EF:65:LEU:HA	1.86	0.55
3:FD:385:PHE:HZ	3:FD:408:PHE:HB3	1.70	0.55
3:FF:350:LYS:HE3	2:FG:181:VAL:N	2.20	0.55
2:FG:89:PRO:HD3	2:GG:283:HIS:CE1	2.40	0.55
9:G1:443:PHE:HB2	9:G1:448:MET:HB3	1.88	0.55
9:G2:281:ARG:NH1	9:G2:282:ASN:H	2.04	0.55
2:GE:56:THR:HB	2:HE:285:GLN:HG3	1.88	0.55
2:GE:244:PHE:CE2	2:GE:358:GLN:HG2	2.41	0.55
2:GI:75:VAL:HA	2:GI:78:VAL:HG12	1.88	0.55
2:GI:88:HIS:CE1	2:GI:121:ARG:HH22	2.24	0.55
11:H3:34:THR:O	11:H3:38:THR:HG23	2.07	0.55
11:H4:13:GLU:H	11:H4:43:LEU:HD22	1.71	0.55
11:H4:16:TYR:HB2	11:H4:39:THR:HG21	1.88	0.55
11:H4:30:GLN:HE22	11:H4:41:GLN:HE21	1.52	0.55
3:HD:316:VAL:HA	3:HD:352:ALA:O	2.05	0.55
3:HH:324:LYS:HZ1	2:HI:222:PRO:N	2.04	0.55
3:HH:334:GLN:O	3:HH:338:SER:OG	2.17	0.55
2:IE:207:GLU:HB2	2:IE:304:LYS:HZ1	1.71	0.55
3:JD:193:VAL:HG21	3:JD:418:LEU:HD11	1.89	0.55
2:KE:10:GLY:O	2:KE:13:GLY:N	2.39	0.55
2:KE:117:LEU:O	2:KE:121:ARG:HG2	2.06	0.55
2:KE:245:ASP:O	2:KE:356:ASN:ND2	2.39	0.55
2:KG:88:HIS:O	2:KG:91:GLN:HB3	2.06	0.55
2:KG:306:ASP:HB3	2:KG:309:HIS:ND1	2.21	0.55
3:KH:318:ARG:HG2	3:KH:357:PRO:HA	1.88	0.55
2:KI:182:VAL:HG23	2:KI:186:ASN:HD21	1.71	0.55
2:KI:417:GLU:OE1	2:KI:417:GLU:N	2.32	0.55
15:L2:160:LYS:O	15:L2:163:GLU:HB3	2.07	0.55
2:LG:322:ASP:HB3	2:LG:373:ARG:HH12	1.71	0.55
2:LI:388:TRP:CD1	2:LI:425:LEU:HD11	2.40	0.55
16:M2:95:ARG:CZ	16:M2:100:GLU:H	2.19	0.55
3:MH:323:MET:SD	3:MH:323:MET:N	2.78	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:417:ASP:HB3	20:Q2:1452:ARG:HE	1.70	0.55
2:MI:255:PHE:O	2:MI:259:LEU:HB2	2.06	0.55
3:ND:64:VAL:HG21	3:ND:120:VAL:HG12	1.87	0.55
3:NH:41:ASP:OD1	3:NH:42:LEU:N	2.39	0.55
2:NI:136:LEU:HD13	2:NI:167:LEU:HB3	1.88	0.55
3:OD:328:GLU:OE2	3:OD:329:GLN:NE2	2.38	0.55
2:OE:54:SER:HB2	2:OE:62:VAL:HB	1.88	0.55
2:OE:209:ILE:HG21	2:OE:227:LEU:HG	1.88	0.55
2:OE:256:GLN:O	2:OE:260:VAL:HG12	2.06	0.55
3:OH:337:ASN:HB2	3:OH:340:TYR:HB2	1.86	0.55
3:PF:253:LEU:O	3:PF:257:MET:HG2	2.06	0.55
2:PG:28:HIS:HE1	2:PG:243:ARG:HD2	1.71	0.55
3:PH:344:TRP:HE3	2:PI:401:LYS:HE3	1.71	0.55
20:Q1:1361:ALA:HA	20:Q1:1364:LEU:HD12	1.88	0.55
3:QH:210:ILE:HG13	3:QH:300:MET:HG2	1.89	0.55
3:QH:247:ASN:OD1	2:QI:11:GLN:NE2	2.39	0.55
3:QH:309:ARG:N	3:QH:372:THR:OG1	2.35	0.55
21:R2:280:TYR:HB2	21:R2:282:HIS:HE1	1.71	0.55
3:RF:19:LYS:HZ3	3:RF:227:HIS:HB2	1.70	0.55
3:RF:31:ASP:OD1	3:RF:35:THR:N	2.39	0.55
3:RF:382:SER:O	3:RF:386:THR:HG23	2.06	0.55
2:RG:396:ASP:OD1	2:RG:397:LEU:N	2.38	0.55
3:RJ:54:ALA:HA	3:SJ:283:ALA:HB2	1.88	0.55
2:SE:25:CYS:HB2	2:SE:30:ILE:HB	1.88	0.55
2:SG:11:GLN:HA	2:SG:14:VAL:HG22	1.89	0.55
2:SG:32:PRO:O	2:SG:85:GLN:NE2	2.38	0.55
3:TF:324:LYS:HE2	2:TG:222:PRO:HG2	1.87	0.55
2:TG:220:GLU:O	2:TG:221:ARG:NE	2.37	0.55
2:TI:11:GLN:HG2	25:TI:501:GTP:O1B	2.06	0.55
2:UG:320:ARG:HG2	2:UG:358:GLN:O	2.05	0.55
3:VD:13:GLY:HA2	3:VD:16:ILE:HG22	1.88	0.55
3:VF:197:ASP:OD1	3:VF:198:GLU:N	2.37	0.55
2:VG:5:ILE:HB	2:VG:135:PHE:HD1	1.70	0.55
2:WE:203:MET:N	2:WE:203:MET:SD	2.78	0.55
3:WF:324:LYS:HE2	2:WG:222:PRO:CD	2.35	0.55
2:WG:5:ILE:O	2:WG:135:PHE:HA	2.07	0.55
3:WH:172:SER:HB3	3:WH:175:VAL:O	2.06	0.55
3:AF:60:VAL:HG23	3:AF:86:ARG:HH11	1.71	0.55
2:AI:127:ASP:OD1	2:AI:128:LEU:N	2.40	0.55
2:AI:288:VAL:HA	2:AI:291:ILE:HG12	1.89	0.55
4:B3:90:ASP:O	4:B3:94:GLN:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:12:CYS:HB3	25:BF:501:GTP:H5'	1.86	0.55
2:BG:12:ALA:HB1	25:BG:501:GTP:C2	2.41	0.55
5:C7:161:THR:O	5:C7:164:LEU:HG	2.06	0.55
5:C7:222:GLU:OE1	5:C7:339:GLN:HB3	2.06	0.55
3:CJ:19:LYS:NZ	3:CJ:223:GLY:O	2.38	0.55
3:DH:198:GLU:HG2	3:DH:266:PHE:CE2	2.41	0.55
2:EG:185:TYR:O	2:EG:189:LEU:HG	2.05	0.55
3:EH:15:GLN:HG3	3:EH:222:TYR:CE2	2.42	0.55
3:FD:419:VAL:O	3:FD:423:GLN:NE2	2.39	0.55
3:FF:11:GLN:OE1	25:FF:501:GTP:N3	2.40	0.55
3:FF:87:PRO:HA	3:FF:90:PHE:CD2	2.41	0.55
9:G2:320:VAL:HG21	9:G2:323:TRP:HE1	1.71	0.55
10:G5:213:TYR:HE2	10:G5:215:SER:HB2	1.70	0.55
10:G5:280:ARG:HA	10:G5:280:ARG:NH1	2.21	0.55
2:GG:9:VAL:HA	2:GG:68:VAL:HG23	1.88	0.55
2:GI:313:MET:HE3	2:GI:313:MET:O	2.06	0.55
11:H3:291:SER:OG	11:H3:295:ASN:ND2	2.39	0.55
2:HE:1:MET:N	2:HE:130:THR:OG1	2.37	0.55
3:HH:86:ARG:HB3	3:HH:88:ASP:OD1	2.07	0.55
2:HI:230:LEU:O	2:HI:233:GLN:HG3	2.06	0.55
2:HI:256:GLN:O	2:HI:260:VAL:HG12	2.06	0.55
3:IF:30:ILE:HG13	3:IF:36:TYR:HB2	1.88	0.55
2:IG:89:PRO:HD3	3:JF:281:TYR:CD2	2.40	0.55
3:IH:309:ARG:NH2	3:IH:426:GLN:O	2.40	0.55
13:J2:32:ASN:O	13:J2:105:CYS:N	2.38	0.55
13:J2:166:ARG:O	13:J2:168:ILE:HG23	2.06	0.55
3:JD:7:LEU:HD13	3:JD:64:VAL:HB	1.89	0.55
3:JD:415:MET:O	3:JD:419:VAL:HG23	2.05	0.55
2:JG:326:LYS:HG3	3:JH:220:PRO:HD2	1.88	0.55
14:K3:34:LEU:HB3	14:K3:38:ARG:HH12	1.70	0.55
3:KD:130:LEU:O	3:KD:162:ARG:NH1	2.39	0.55
2:KG:256:GLN:HE22	3:KH:397:TRP:HE1	1.55	0.55
2:KG:336:LYS:NZ	3:KH:175:VAL:HG11	2.20	0.55
3:KH:117:LEU:HD13	3:KH:121:ARG:HH22	1.71	0.55
3:KH:324:LYS:HE2	2:KI:222:PRO:HD2	1.88	0.55
15:L3:166:LYS:O	15:L3:169:GLN:HG2	2.05	0.55
3:LD:133:PHE:H	3:LD:164:MET:HE2	1.71	0.55
3:LF:197:ASP:OD1	3:LF:198:GLU:N	2.34	0.55
3:LH:11:GLN:HA	3:LH:14:ASN:ND2	2.22	0.55
3:LH:310:TYR:HD1	3:LH:371:SER:HB2	1.71	0.55
2:MI:102:ASN:HD21	2:MI:411:GLU:HG2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:139:HIS:CE1	2:NE:170:ALA:HB2	2.41	0.55
3:NH:12:CYS:HB3	25:NH:501:GTP:H5'	1.88	0.55
3:NH:251:ARG:HE	3:NH:255:VAL:HG13	1.72	0.55
2:NI:254:GLU:N	2:NI:254:GLU:OE1	2.39	0.55
3:OD:268:PRO:HD2	3:OD:301:ALA:HB2	1.89	0.55
2:OG:136:LEU:HD12	2:OG:169:PHE:CE1	2.41	0.55
2:OG:324:VAL:HG23	2:OG:327:ASP:H	1.71	0.55
2:OI:49:PHE:HB2	2:OI:53:PHE:HB2	1.88	0.55
19:P2:60:LEU:HD21	19:P2:101:ARG:HB3	1.87	0.55
20:Q2:1400:ILE:O	20:Q2:1404:VAL:HG22	2.06	0.55
20:Q2:1419:ARG:O	20:Q2:1508:ASN:ND2	2.39	0.55
3:QF:328:GLU:OE1	3:QF:332:ASN:ND2	2.37	0.55
3:RF:403:MET:HB3	3:RF:407:GLU:OE1	2.06	0.55
2:RG:246:GLY:HA3	2:RG:356:ASN:HA	1.88	0.55
3:RH:12:CYS:HA	25:RH:501:GTP:N2	2.20	0.55
3:RH:416:ASN:HA	3:RH:419:VAL:CG2	2.35	0.55
2:RI:213:CYS:HA	2:RI:217:LEU:HB2	1.88	0.55
2:RI:250:VAL:HB	2:RI:255:PHE:HE1	1.70	0.55
2:SE:269:LEU:O	2:SE:378:LEU:HA	2.07	0.55
2:SE:310:GLY:HA3	2:SE:383:ALA:HB2	1.88	0.55
2:SG:12:ALA:HB1	25:SG:501:GTP:N2	2.21	0.55
2:SG:137:ILE:HD11	2:SG:166:LYS:HB2	1.86	0.55
2:SG:332:ILE:HG13	2:SG:336:LYS:NZ	2.21	0.55
3:SH:211:CYS:HA	3:SH:215:LEU:HD13	1.87	0.55
3:SJ:12:CYS:SG	3:SJ:13:GLY:N	2.78	0.55
3:TF:103:LYS:O	3:TF:108:GLU:N	2.30	0.55
3:TH:11:GLN:HG3	25:TH:501:GTP:PA	2.47	0.55
3:TJ:421:GLU:HG2	3:TJ:425:TYR:CE2	2.41	0.55
3:UD:80:PRO:O	3:UD:83:GLN:NE2	2.39	0.55
2:UE:234:ILE:O	2:UE:237:SER:OG	2.20	0.55
3:UH:275:SER:N	3:UH:278:SER:OG	2.37	0.55
2:VE:88:HIS:CE1	2:VE:90:GLU:HG2	2.41	0.55
2:VE:232:GLY:HA2	2:VE:235:VAL:HG22	1.88	0.55
2:WI:371:VAL:HG21	2:WI:374:ALA:HB2	1.87	0.55
23:XK:106:PRO:HG2	23:XK:110:PHE:HE2	1.71	0.55
23:XL:167:GLY:O	23:XL:174:TYR:OH	2.24	0.55
3:AF:385:PHE:HA	3:AF:388:MET:HG2	1.88	0.55
3:AH:8:GLN:HG2	3:AH:65:LEU:HD13	1.88	0.55
2:AI:5:ILE:HD13	2:AI:64:ARG:HB3	1.87	0.55
2:AI:236:SER:O	2:AI:243:ARG:NH2	2.40	0.55
5:C3:202:ARG:NH1	5:C3:468:ILE:HG22	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:11:GLN:HG3	25:CH:501:GTP:PA	2.46	0.55
6:D8:74:SER:O	6:D8:78:ARG:HG2	2.06	0.55
3:DD:172:SER:HB3	3:DD:175:VAL:O	2.06	0.55
3:DF:107:THR:OG1	3:DF:401:GLU:OE2	2.24	0.55
2:DG:58:ALA:O	2:DG:60:LYS:NZ	2.38	0.55
3:DH:302:ALA:HB1	3:DH:377:LEU:HD11	1.89	0.55
7:E2:48:ARG:HB2	7:E2:63:TRP:NE1	2.20	0.55
7:E2:178:PHE:HE1	7:E2:180:ALA:HB2	1.71	0.55
3:ED:134:GLN:HB2	3:ED:167:PHE:CE2	2.41	0.55
2:EG:196:GLU:HG2	2:EG:197:HIS:ND1	2.21	0.55
8:F3:226:GLN:OE1	8:F3:230:ARG:NH2	2.30	0.55
3:FD:19:LYS:O	3:FD:22:GLU:HG3	2.06	0.55
3:FD:415:MET:O	3:FD:419:VAL:HG23	2.06	0.55
10:G5:54:LYS:HG2	10:G5:55:PRO:HD2	1.88	0.55
3:GF:245:GLN:OE1	3:GF:245:GLN:N	2.39	0.55
3:HD:238:THR:HA	3:HD:241:ARG:HH11	1.71	0.55
3:HD:285:THR:O	3:HD:288:GLU:HG3	2.06	0.55
2:HE:139:HIS:CE1	2:HE:170:ALA:HB2	2.41	0.55
2:HE:254:GLU:O	2:HE:258:ASN:ND2	2.23	0.55
2:IE:338:LYS:HZ2	2:IE:340:THR:H	1.54	0.55
2:II:239:THR:OG1	2:II:243:ARG:NH1	2.37	0.55
3:JD:249:ASP:O	3:JD:252:LYS:HB2	2.05	0.55
2:JE:196:GLU:OE1	2:JE:196:GLU:N	2.29	0.55
2:JG:1:MET:SD	2:JG:2:ARG:N	2.79	0.55
2:JG:262:TYR:OH	3:JH:391:ARG:O	2.23	0.55
3:KF:198:GLU:HG2	3:KF:266:PHE:HE2	1.70	0.55
3:LF:4:ILE:HD11	3:LF:131:GLN:HB2	1.88	0.55
3:LF:325:GLU:O	3:LF:329:GLN:HG2	2.05	0.55
3:MH:388:MET:HA	3:MH:391:ARG:NH1	2.21	0.55
2:MI:274:PRO:HG3	2:MI:374:ALA:HA	1.89	0.55
17:N2:80:ASN:HB3	17:N2:82:HIS:CE1	2.41	0.55
2:NG:254:GLU:OE2	2:NG:352:LYS:HE2	2.05	0.55
3:NH:390:ARG:O	3:NH:390:ARG:NH1	2.38	0.55
2:NI:206:ASN:HA	2:NI:209:ILE:HD12	1.89	0.55
3:OD:371:SER:OG	3:OD:372:THR:N	2.39	0.55
2:OG:68:VAL:HG12	2:OG:93:ILE:HB	1.87	0.55
2:OG:318:LEU:HB2	2:OG:376:CYS:SG	2.45	0.55
3:OH:265:PHE:CD2	3:OH:374:ILE:HG21	2.36	0.55
2:OI:66:VAL:HA	2:OI:91:GLN:HE21	1.71	0.55
19:P2:208:VAL:HG22	19:P2:222:LEU:HD13	1.87	0.55
3:PH:233:MET:O	3:PH:236:VAL:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:274:PRO:HG3	2:PI:374:ALA:HA	1.88	0.55
2:QE:167:LEU:HD13	2:QE:200:CYS:HB3	1.88	0.55
2:QE:216:ASN:HD21	2:QE:275:VAL:HG23	1.70	0.55
2:QE:429:GLU:HA	2:QE:432:TYR:CD2	2.41	0.55
3:QH:172:SER:HB3	3:QH:175:VAL:O	2.07	0.55
2:QI:235:VAL:HA	2:QI:238:ILE:HG12	1.88	0.55
2:QI:306:ASP:OD2	2:QI:309:HIS:N	2.39	0.55
21:R2:255:ALA:O	21:R2:258:GLN:NE2	2.39	0.55
2:RE:188:ILE:HB	2:RE:395:PHE:CZ	2.41	0.55
2:RI:156:ARG:HA	2:RI:159:VAL:HG22	1.89	0.55
2:SG:1:MET:N	2:SG:130:THR:OG1	2.40	0.55
2:SG:387:ALA:O	2:SG:391:LEU:HD23	2.06	0.55
2:SI:188:ILE:HG13	2:SI:421:ALA:HB1	1.88	0.55
3:SJ:292:GLN:HG2	3:SJ:298:ASN:ND2	2.22	0.55
3:TF:19:LYS:O	3:TF:23:VAL:HG23	2.06	0.55
3:TH:170:VAL:HG11	3:TH:377:LEU:HD23	1.87	0.55
2:TI:208:ALA:N	2:TI:304:LYS:HZ1	1.98	0.55
2:TI:229:ARG:NH2	2:TI:365:GLY:O	2.38	0.55
3:UF:117:LEU:HA	3:UF:120:VAL:HG22	1.87	0.55
2:UG:54:SER:H	2:UG:62:VAL:H	1.54	0.55
2:UG:158:SER:HB3	2:UG:166:LYS:HZ3	1.72	0.55
3:VD:2:ARG:HA	3:VD:129:CYS:O	2.05	0.55
3:VD:167:PHE:HA	3:VD:200:TYR:HB2	1.88	0.55
3:VD:247:ASN:HD21	2:VE:11:GLN:NE2	2.04	0.55
2:VE:224:TYR:HA	2:VE:227:LEU:HB2	1.88	0.55
2:VE:263:PRO:HD3	3:VF:396:HIS:CD2	2.42	0.55
25:VH:501:GTP:O3G	25:VH:501:GTP:O3'	2.18	0.55
2:WG:5:ILE:HB	2:WG:135:PHE:HD1	1.71	0.55
2:WG:68:VAL:HG12	2:WG:93:ILE:HB	1.86	0.55
2:WG:345:ASP:N	2:WG:345:ASP:OD1	2.39	0.55
22:XC:25:TRP:HA	22:XC:60:THR:O	2.07	0.55
22:XC:109:GLN:HB2	22:XC:122:PRO:HA	1.87	0.55
1:A2:323:ARG:HB3	1:A2:327:GLU:HB2	1.87	0.55
3:AH:415:MET:O	3:AH:419:VAL:HG23	2.06	0.55
2:AI:102:ASN:ND2	2:AI:105:ARG:HB2	2.21	0.55
2:AI:256:GLN:O	2:AI:260:VAL:HG12	2.07	0.55
4:B7:265:PHE:HE2	4:B7:391:MET:HB2	1.71	0.55
4:B8:270:ARG:HH21	5:C2:152:ASP:HB3	1.72	0.55
4:B8:304:LEU:HD23	4:B8:352:MET:CE	2.36	0.55
2:BE:287:SER:OG	2:BE:290:GLU:OE1	2.22	0.55
5:C3:295:SER:O	5:C4:413:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:361:ILE:HG22	5:C3:459:LEU:HD12	1.89	0.55
5:C8:413:ARG:HG2	5:C8:413:ARG:O	2.07	0.55
5:C8:414:ASP:OD1	5:C8:415:MET:N	2.40	0.55
2:CG:226:ASN:OD1	11:H3:33:ASN:ND2	2.39	0.55
2:CI:25:CYS:HB2	2:CI:30:ILE:HB	1.89	0.55
2:CI:196:GLU:OE1	2:CI:196:GLU:N	2.29	0.55
6:D3:225:ASP:OD1	6:D4:360:ARG:NH1	2.37	0.55
6:D3:272:ARG:HH22	6:D3:273:LEU:HG	1.71	0.55
3:DF:111:GLU:HG2	3:DF:112:LEU:HD12	1.87	0.55
2:DG:396:ASP:OD1	2:DG:397:LEU:N	2.38	0.55
3:DH:77:ARG:O	3:DH:77:ARG:NH1	2.35	0.55
3:EF:86:ARG:NE	3:EF:86:ARG:HA	2.21	0.55
3:EH:284:LEU:HD12	3:EH:363:MET:HG2	1.89	0.55
8:F6:356:LYS:O	8:F6:359:THR:OG1	2.21	0.55
3:FD:324:LYS:HE2	2:FE:222:PRO:HG2	1.88	0.55
2:GE:187:SER:OG	2:GE:188:ILE:HD12	2.07	0.55
2:GE:371:VAL:HG22	2:GE:373:ARG:H	1.71	0.55
3:GF:188:SER:HA	3:GF:191:GLN:NE2	2.20	0.55
3:HD:325:GLU:O	3:HD:329:GLN:HG2	2.07	0.55
2:HE:3:GLU:OE2	2:HE:130:THR:N	2.38	0.55
3:IH:21:TRP:CZ2	3:IH:63:ALA:HB2	2.42	0.55
2:II:160:ASP:OD1	2:II:161:TYR:N	2.39	0.55
13:J3:32:ASN:OD1	13:J3:33:SER:N	2.36	0.55
13:J3:146:ASN:ND2	13:J3:174:LEU:O	2.35	0.55
3:JH:375:GLN:HA	3:JH:378:PHE:CZ	2.41	0.55
14:K3:421:LEU:O	14:K3:425:HIS:ND1	2.40	0.55
2:KI:245:ASP:HB2	2:KI:357:TYR:HE2	1.70	0.55
2:KI:402:ARG:HD2	21:R2:125:ARG:HH11	1.71	0.55
3:LD:12:CYS:SG	3:LD:13:GLY:N	2.80	0.55
3:LD:165:ASN:HD21	3:LD:200:TYR:HE2	1.54	0.55
3:LD:176:SER:O	3:LD:178:THR:N	2.38	0.55
3:LD:257:MET:SD	3:LD:314:ALA:HB2	2.46	0.55
2:LI:141:PHE:HB2	2:LI:173:PRO:HD3	1.88	0.55
2:ME:392:ASP:OD1	2:ME:393:HIS:N	2.39	0.55
2:MG:75:VAL:HG11	2:MG:94:THR:HB	1.88	0.55
3:MH:378:PHE:CE1	3:MH:419:VAL:HG22	2.42	0.55
2:NG:107:HIS:CD2	2:NG:152:LEU:HB3	2.41	0.55
2:NG:172:TYR:CD1	2:NG:173:PRO:HD2	2.42	0.55
2:NG:207:GLU:HB2	2:NG:304:LYS:HZ1	1.71	0.55
3:NH:130:LEU:HB2	3:NH:162:ARG:HH11	1.72	0.55
2:NI:76:ASP:HA	2:NI:79:ARG:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:O2:84:ARG:HE	18:O2:85:THR:H	1.54	0.55
3:OF:27:GLU:OE2	3:OF:241:ARG:NH1	2.36	0.55
2:PI:113:GLU:OE1	2:PI:113:GLU:N	2.39	0.55
20:Q1:1461:TYR:CE2	20:Q1:1477:VAL:HB	2.40	0.55
2:QG:167:LEU:HD13	2:QG:200:CYS:HB2	1.89	0.55
2:QG:269:LEU:O	2:QG:378:LEU:HA	2.07	0.55
3:QH:111:GLU:N	3:QH:111:GLU:OE1	2.40	0.55
2:QI:279:GLU:O	24:YM:131:ARG:NH2	2.39	0.55
3:RH:271:ALA:N	3:RH:365:ALA:O	2.40	0.55
2:RI:213:CYS:O	2:RI:218:ASP:N	2.40	0.55
3:RJ:375:GLN:HA	3:RJ:378:PHE:CE1	2.42	0.55
3:SH:184:ASN:ND2	3:SH:398:TYR:OH	2.39	0.55
3:TJ:421:GLU:HG2	3:TJ:425:TYR:HE2	1.72	0.55
2:VE:119:LEU:HA	2:VE:122:ILE:HG22	1.88	0.55
2:VG:68:VAL:HA	2:VG:93:ILE:HB	1.87	0.55
3:VH:246:LEU:HB3	3:VH:353:VAL:H	1.72	0.55
3:VH:375:GLN:HA	3:VH:378:PHE:CZ	2.41	0.55
2:WG:316:CYS:HA	2:WG:352:LYS:HB2	1.87	0.55
2:WI:49:PHE:O	2:WI:52:PHE:N	2.40	0.55
2:WI:117:LEU:HD13	22:XE:6:PHE:CD2	2.41	0.55
2:WI:178:SER:OG	2:WI:180:ALA:O	2.25	0.55
1:A2:162:ARG:NH2	1:A2:165:ARG:HH21	2.05	0.55
3:AF:36:TYR:CE2	3:AF:38:GLY:HA2	2.42	0.55
3:AF:84:ILE:O	3:AF:86:ARG:NH1	2.40	0.55
4:B3:272:MET:HB3	4:B3:380:LYS:HZ3	1.72	0.55
2:BE:154:MET:HA	2:BE:157:LEU:HG	1.88	0.55
5:C3:378:THR:O	5:C3:381:SER:OG	2.22	0.55
5:C8:197:GLU:HA	5:C8:200:PHE:CE1	2.42	0.55
2:CG:223:THR:OG1	2:CG:225:THR:OG1	2.25	0.55
3:CH:2:ARG:CZ	3:CH:131:GLN:HG3	2.37	0.55
2:DG:420:GLU:HA	2:DG:423:GLU:OE2	2.07	0.55
3:ED:216:LYS:HB2	3:ED:276:ARG:HH11	1.72	0.55
8:F3:324:LEU:HD23	8:F3:328:LEU:HD23	1.89	0.55
8:F6:133:GLN:O	8:F6:136:GLU:HG2	2.05	0.55
8:F6:296:TRP:CH2	8:F7:408:CYS:HA	2.41	0.55
3:FD:65:LEU:HD12	3:FD:90:PHE:CE1	2.41	0.55
3:FF:305:PRO:HB3	3:FF:373:ALA:HB2	1.88	0.55
2:FG:346:TRP:CH2	3:FH:391:ARG:HB2	2.42	0.55
9:G1:43:PRO:HG3	3:LD:77:ARG:HG3	1.89	0.55
9:G2:169:ASN:ND2	9:G2:200:GLU:O	2.40	0.55
3:GH:261:PRO:HD3	2:GI:406:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:263:LEU:HD13	3:HF:422:TYR:HE1	1.72	0.55
12:I3:46:PHE:HA	12:I3:49:PHE:CD2	2.42	0.55
12:I3:72:ILE:HG13	12:I3:74:SER:H	1.72	0.55
3:JD:1:MET:SD	3:JD:2:ARG:N	2.80	0.55
2:JE:88:HIS:CE1	2:JE:121:ARG:HH22	2.25	0.55
3:JF:2:ARG:HB3	3:JF:131:GLN:CD	2.27	0.55
3:KF:142:GLY:N	25:KF:501:GTP:O3B	2.39	0.55
15:L2:249:ILE:HG22	15:L2:251:TYR:H	1.71	0.55
3:LF:117:LEU:HD11	3:LF:154:LYS:HD2	1.87	0.55
2:ME:217:LEU:HD21	2:ME:275:VAL:HB	1.88	0.55
3:MF:77:ARG:NH1	3:MF:77:ARG:O	2.39	0.55
2:MI:196:GLU:HG2	2:MI:197:HIS:ND1	2.22	0.55
2:NE:226:ASN:ND2	2:NE:230:LEU:HD23	2.22	0.55
2:NI:85:GLN:HG2	2:NI:86:LEU:HD12	1.88	0.55
18:O2:104:ASN:OD1	18:O2:105:ALA:N	2.40	0.55
2:OE:68:VAL:HG12	2:OE:93:ILE:HB	1.88	0.55
2:OE:220:GLU:O	2:OE:221:ARG:NE	2.39	0.55
3:OF:255:VAL:HA	2:OG:407:TRP:CE2	2.42	0.55
2:OI:320:ARG:HG2	2:OI:358:GLN:O	2.07	0.55
19:P1:481:THR:HA	19:P1:504:LEU:HB3	1.87	0.55
19:P2:199:CYS:SG	19:P2:200:GLN:N	2.79	0.55
2:PE:388:TRP:HD1	2:PE:425:LEU:HD11	1.71	0.55
3:PH:325:GLU:O	3:PH:329:GLN:HG2	2.07	0.55
2:PI:117:LEU:O	2:PI:121:ARG:HG2	2.05	0.55
3:QF:137:HIS:NE2	3:QF:168:SER:HB2	2.22	0.55
2:QG:311:LYS:NZ	2:QG:343:PHE:O	2.39	0.55
3:QH:197:ASP:OD1	3:QH:198:GLU:N	2.40	0.55
2:QI:216:ASN:ND2	2:QI:275:VAL:O	2.40	0.55
2:RE:47:ASP:HB3	2:RE:49:PHE:CE2	2.42	0.55
2:RE:306:ASP:OD2	2:RE:309:HIS:ND1	2.40	0.55
3:SF:2:ARG:HH22	3:SF:251:ARG:NH1	2.03	0.55
3:SH:377:LEU:O	3:SH:381:ILE:HG12	2.06	0.55
2:SI:346:TRP:NE1	2:SI:438:ASP:OD1	2.39	0.55
3:SJ:384:GLN:HG3	3:SJ:388:MET:HE3	1.89	0.55
3:TF:334:GLN:HA	3:TF:341:PHE:HE2	1.71	0.55
3:TJ:316:VAL:HG22	3:TJ:352:ALA:HB3	1.88	0.55
3:UF:357:PRO:HB3	3:UF:362:LYS:HA	1.89	0.55
2:VE:175:PRO:HA	2:VE:390:ARG:CZ	2.37	0.55
3:VF:150:LEU:O	3:VF:153:SER:OG	2.22	0.55
2:VG:236:SER:HB2	2:VG:243:ARG:HH22	1.70	0.55
3:VH:166:THR:OG1	3:VH:198:GLU:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WE:3:GLU:H	2:WE:133:GLN:HE22	1.54	0.55
2:WE:69:ASP:OD1	2:WE:70:LEU:N	2.39	0.55
2:WG:230:LEU:O	2:WG:233:GLN:HG3	2.07	0.55
3:WH:203:ASP:OD2	3:WH:206:ALA:N	2.37	0.55
3:WH:255:VAL:HA	2:WI:407:TRP:CZ2	2.42	0.55
3:WH:334:GLN:HA	3:WH:341:PHE:HE2	1.72	0.55
22:XD:75:PHE:CB	22:XD:168:SER:O	2.49	0.55
24:YJ:16:LYS:O	24:YJ:19:GLN:HG3	2.07	0.55
24:YM:141:ILE:HB	24:YM:142:PRO:HD3	1.87	0.55
24:YN:6:GLU:HA	24:YN:9:ARG:NE	2.21	0.55
2:AI:141:PHE:HD2	2:AI:172:TYR:HA	1.71	0.55
4:B3:202:LYS:HD2	4:B3:203:VAL:N	2.20	0.55
4:B7:12:TYR:CE2	4:B8:129:VAL:HG22	2.42	0.55
4:B8:280:LYS:O	4:B8:283:GLU:HG3	2.06	0.55
2:BG:320:ARG:HH21	2:BG:358:GLN:HG3	1.70	0.55
5:C7:260:ASP:OD1	5:C7:261:LYS:N	2.40	0.55
5:C7:296:VAL:HG12	5:C7:298:GLU:OE1	2.07	0.55
2:CI:265:ILE:HB	2:CI:432:TYR:HE1	1.71	0.55
2:CI:338:LYS:NZ	2:CI:340:THR:HG23	2.22	0.55
2:DE:235:VAL:HA	2:DE:238:ILE:HG12	1.89	0.55
2:DG:160:ASP:OD1	2:DG:161:TYR:N	2.39	0.55
3:ED:8:GLN:HG2	3:ED:65:LEU:HA	1.89	0.55
3:ED:41:ASP:N	3:ED:41:ASP:OD1	2.38	0.55
3:FD:52:ASN:O	3:FD:59:TYR:HA	2.07	0.55
2:FE:70:LEU:HB3	2:FE:97:GLU:O	2.07	0.55
25:FF:502:GTP:O1B	2:FG:11:GLN:HB3	2.07	0.55
9:G1:102:TYR:HD2	9:G1:117:ILE:HD11	1.70	0.55
3:GF:318:ARG:HG2	3:GF:357:PRO:HA	1.87	0.55
3:GH:21:TRP:CZ2	3:GH:63:ALA:HB2	2.42	0.55
2:GI:256:GLN:O	2:GI:260:VAL:HG12	2.06	0.55
2:HG:311:LYS:N	2:HG:382:THR:OG1	2.35	0.55
2:IE:176:GLN:NE2	2:IE:207:GLU:OE2	2.39	0.55
13:J3:166:ARG:HB3	13:J3:177:ASN:HD22	1.71	0.55
2:JE:89:PRO:HD2	2:KE:280:LYS:HZ3	1.72	0.55
2:JE:280:LYS:HA	2:JE:283:HIS:CE1	2.41	0.55
3:JF:324:LYS:HE2	2:JG:222:PRO:HG2	1.88	0.55
2:JG:51:THR:HG23	2:JG:52:PHE:CD2	2.41	0.55
14:K3:328:ILE:HG13	14:K3:329:SER:N	2.22	0.55
3:KD:51:TYR:HB3	3:KD:59:TYR:HB3	1.87	0.55
2:KG:325:PRO:HA	2:KG:328:VAL:HB	1.88	0.55
2:KI:325:PRO:HA	2:KI:328:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L3:82:SER:O	15:L3:84:LYS:NZ	2.38	0.55
3:LD:267:MET:HB2	3:LD:299:MET:HE1	1.88	0.55
3:LF:86:ARG:NE	3:LF:86:ARG:HA	2.22	0.55
2:LI:70:LEU:HB3	2:LI:97:GLU:O	2.06	0.55
2:LI:189:LEU:HA	2:LI:192:HIS:CE1	2.40	0.55
2:MG:28:HIS:O	2:MG:28:HIS:ND1	2.40	0.55
2:MG:208:ALA:HB2	2:MG:304:LYS:HZ2	1.72	0.55
3:NF:21:TRP:CZ2	3:NF:63:ALA:HB2	2.41	0.55
19:P1:33:HIS:HB2	19:P1:40:ILE:HD11	1.89	0.55
19:P1:400:ALA:O	19:P1:409:MET:N	2.40	0.55
19:P2:244:PRO:O	19:P2:245:VAL:C	2.45	0.55
2:PG:239:THR:OG1	2:PG:243:ARG:NH1	2.40	0.55
2:QI:155:GLU:OE2	2:QI:197:HIS:ND1	2.39	0.55
2:RE:88:HIS:HE1	2:RE:90:GLU:HG2	1.72	0.55
3:RF:344:TRP:HB3	2:RG:401:LYS:HE2	1.89	0.55
2:RI:390:ARG:HA	2:RI:393:HIS:CD2	2.42	0.55
3:RJ:31:ASP:OD1	3:RJ:35:THR:N	2.39	0.55
3:SF:131:GLN:HB3	3:SF:163:ILE:HD12	1.88	0.55
3:SF:269:GLY:HA3	3:SF:367:PHE:HB3	1.88	0.55
3:SJ:260:PHE:HB2	3:SJ:263:LEU:HD23	1.88	0.55
3:SJ:311:LEU:HD23	3:SJ:342:VAL:HG21	1.89	0.55
3:TF:322:SER:OG	3:TF:324:LYS:NZ	2.25	0.55
2:TG:137:ILE:N	2:TG:167:LEU:O	2.39	0.55
3:TH:190:HIS:O	3:TH:193:VAL:HG12	2.07	0.55
3:TJ:12:CYS:HA	25:TJ:501:GTP:N2	2.22	0.55
3:TJ:141:GLY:HA3	25:TJ:501:GTP:H5"	1.89	0.55
3:UD:284:LEU:HD11	3:UD:363:MET:HB2	1.89	0.55
2:UE:352:LYS:NZ	3:UF:178:THR:HG22	2.21	0.55
2:UG:53:PHE:HE2	2:UG:86:LEU:HD21	1.72	0.55
3:UH:2:ARG:HB3	3:UH:131:GLN:CD	2.25	0.55
2:WE:427:ALA:HA	2:WE:430:LYS:HG2	1.88	0.55
3:WH:234:SER:O	3:WH:238:THR:HG23	2.07	0.55
24:YL:1:MET:N	24:YL:3:GLU:OE2	2.39	0.55
1:A2:367:ARG:HH21	10:G5:182:GLY:CA	2.19	0.55
3:AF:249:ASP:OD2	3:AF:251:ARG:HB2	2.07	0.55
4:B7:39:ARG:NH2	4:B8:293:LEU:HB2	2.21	0.55
3:BH:292:GLN:O	3:BH:298:ASN:ND2	2.32	0.55
3:BH:378:PHE:CD1	3:BH:419:VAL:HG22	2.42	0.55
5:C3:229:CYS:HA	5:C3:232:ARG:HE	1.72	0.55
3:CH:209:ASP:OD2	3:CH:213:ARG:NH2	2.40	0.55
3:CJ:316:VAL:HA	3:CJ:352:ALA:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:344:LYS:O	6:D7:347:GLU:HG3	2.06	0.55
2:DE:229:ARG:HE	2:DE:368:LEU:HD22	1.71	0.55
3:DF:77:ARG:O	3:DF:82:GLY:HA3	2.07	0.55
3:DH:275:SER:N	3:DH:278:SER:OG	2.40	0.55
3:FF:361:LEU:HD11	3:FF:364:SER:HB3	1.88	0.55
2:FG:308:ARG:HH22	2:FG:341:ILE:HA	1.70	0.55
9:G1:243:LEU:HB3	9:G1:266:TYR:HB3	1.89	0.55
10:G5:640:TYR:HA	10:G5:643:VAL:HG12	1.87	0.55
3:GH:271:ALA:HB2	3:GH:365:ALA:H	1.71	0.55
3:GH:289:LEU:HD21	3:GH:363:MET:HG3	1.88	0.55
11:H3:305:ARG:O	11:H3:308:TYR:HB3	2.06	0.55
3:HH:11:GLN:HA	3:HH:14:ASN:ND2	2.21	0.55
3:IF:412:GLU:HA	3:IF:415:MET:HG2	1.88	0.55
2:IG:12:ALA:HB2	25:IG:501:GTP:H5''	1.89	0.55
3:IH:261:PRO:O	3:IH:264:HIS:NE2	2.40	0.55
3:JD:273:LEU:H	3:JD:292:GLN:HE22	1.53	0.55
2:JG:196:GLU:OE1	2:JG:196:GLU:N	2.34	0.55
3:KD:324:LYS:HE2	2:KE:222:PRO:HD2	1.88	0.55
2:KE:318:LEU:O	2:KE:375:VAL:HA	2.06	0.55
3:LD:3:GLU:HG3	3:LD:127:CYS:HB2	1.88	0.55
3:LD:395:LEU:HD23	3:LD:399:THR:HG23	1.89	0.55
2:LE:115:VAL:HA	2:LE:118:VAL:HG22	1.88	0.55
2:LE:208:ALA:H	2:LE:304:LYS:HZ1	1.53	0.55
3:LF:347:ASN:O	3:LF:350:LYS:NZ	2.39	0.55
16:M2:53:PRO:HD2	16:M2:89:PHE:CE2	2.42	0.55
2:MG:144:GLY:N	25:MG:501:GTP:O2B	2.40	0.55
3:MH:380:ARG:O	3:MH:384:GLN:NE2	2.40	0.55
3:ND:238:THR:HG21	3:ND:318:ARG:HD2	1.89	0.55
3:ND:357:PRO:O	3:ND:359:ARG:NH1	2.39	0.55
3:NH:249:ASP:HB3	3:NH:252:LYS:HB2	1.88	0.55
2:NI:306:ASP:OD2	2:NI:309:HIS:N	2.40	0.55
3:OD:230:SER:HA	3:OD:233:MET:HG2	1.89	0.55
2:OG:211:ASP:HB2	2:OG:215:ARG:HH21	1.70	0.55
3:OH:100:ASN:OD1	3:OH:103:LYS:N	2.30	0.55
19:P2:484:THR:HG22	19:P2:500:LEU:HG	1.89	0.55
2:PE:171:ILE:HD12	2:PE:204:VAL:HG23	1.89	0.55
2:PE:396:ASP:OD1	2:PE:397:LEU:N	2.40	0.55
3:PF:318:ARG:NE	3:PF:356:ILE:O	2.32	0.55
2:PG:312:TYR:HA	2:PG:381:THR:HA	1.89	0.55
3:PH:157:GLU:OE1	3:PH:157:GLU:N	2.32	0.55
3:PH:372:THR:HA	3:PH:375:GLN:HE22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:12:CYS:SG	3:QH:13:GLY:N	2.80	0.55
3:RH:262:ARG:HB3	3:RH:418:LEU:HD11	1.87	0.55
3:RJ:286:VAL:HG21	3:RJ:325:GLU:HG3	1.87	0.55
2:SG:326:LYS:H	2:SG:326:LYS:HE2	1.72	0.55
3:SJ:7:LEU:HB2	3:SJ:135:LEU:HG	1.88	0.55
3:TF:77:ARG:HA	3:TF:82:GLY:HA3	1.87	0.55
2:TI:33:ASP:OD1	2:TI:34:GLY:N	2.39	0.55
3:UH:156:ARG:NH1	3:UH:195:ASN:O	2.40	0.55
2:VE:171:ILE:HD12	2:VE:204:VAL:HG13	1.89	0.55
2:WE:163:LYS:HE3	23:XJ:70:GLU:HG3	1.88	0.55
3:WF:313:VAL:HG23	3:WF:349:VAL:HA	1.88	0.55
2:WG:98:ASP:O	2:WG:105:ARG:NE	2.39	0.55
22:XC:1:MET:N	22:XC:1:MET:SD	2.76	0.55
23:XK:141:LEU:HB3	23:XK:180:ILE:HG21	1.88	0.55
23:XK:209:ILE:O	23:XK:213:LEU:HG	2.07	0.55
23:XL:201:LYS:HD2	23:XL:202:ARG:HH12	1.70	0.55
24:YK:4:VAL:HG23	24:YK:5:LYS:HD2	1.87	0.55
1:A2:284:LYS:O	1:A2:287:GLU:HG2	2.06	0.55
3:AF:375:GLN:HA	3:AF:378:PHE:CE1	2.42	0.55
2:BG:51:THR:HG23	2:BG:52:PHE:CD2	2.42	0.55
5:C8:218:GLU:O	5:C8:222:GLU:HG2	2.07	0.55
3:CF:12:CYS:SG	3:CF:13:GLY:N	2.80	0.55
3:CF:415:MET:O	3:CF:419:VAL:HG23	2.05	0.55
3:CJ:278:SER:HA	3:CJ:281:TYR:HB2	1.89	0.55
3:CJ:305:PRO:HB2	3:CJ:310:TYR:HE1	1.72	0.55
3:DD:28:HIS:HA	3:DD:43:GLN:OE1	2.07	0.55
3:DD:378:PHE:CE1	3:DD:419:VAL:HG22	2.42	0.55
3:ED:28:HIS:ND1	3:ED:43:GLN:HB2	2.22	0.55
3:ED:392:LYS:HB2	3:ED:395:LEU:HD13	1.88	0.55
3:EF:42:LEU:HD11	3:EF:356:ILE:HG13	1.89	0.55
8:F2:308:GLN:HA	8:F2:311:ARG:HD3	1.89	0.55
8:F2:396:LEU:HD22	8:F3:283:VAL:HB	1.87	0.55
8:F6:129:GLN:HA	8:F6:132:HIS:CD2	2.42	0.55
2:GG:205:ASP:OD2	2:GG:207:GLU:HG3	2.06	0.55
3:GH:344:TRP:CE2	2:GI:401:LYS:HD2	2.41	0.55
2:GI:244:PHE:CZ	2:GI:358:GLN:HG2	2.41	0.55
3:HD:7:LEU:HD13	3:HD:64:VAL:HB	1.88	0.55
2:HG:285:GLN:HE21	2:HG:372:GLN:HE21	1.54	0.55
3:HH:234:SER:O	3:HH:238:THR:HG23	2.07	0.55
3:HH:258:VAL:HB	2:HI:407:TRP:HZ2	1.72	0.55
12:I2:54:ASN:HA	12:I2:57:LEU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:139:HIS:HE1	2:IE:168:GLU:HB3	1.72	0.55
3:IF:311:LEU:HD22	3:IF:425:TYR:HE2	1.72	0.55
13:J3:47:ILE:HG21	13:J3:102:LEU:HD22	1.89	0.55
13:J3:166:ARG:O	13:J3:168:ILE:HG23	2.05	0.55
2:KE:325:PRO:O	2:KE:329:ASN:ND2	2.40	0.55
3:KH:130:LEU:O	3:KH:162:ARG:NH1	2.39	0.55
3:KH:337:ASN:HD21	3:KH:340:TYR:HB2	1.72	0.55
3:LH:3:GLU:OE2	3:LH:127:CYS:HB2	2.07	0.55
2:LI:8:HIS:ND1	2:LI:67:PHE:HE1	2.04	0.55
3:ND:270:PHE:O	3:ND:298:ASN:ND2	2.37	0.55
3:ND:378:PHE:CD1	3:ND:419:VAL:HG22	2.42	0.55
2:NE:160:ASP:OD1	2:NE:161:TYR:N	2.40	0.55
2:NE:362:VAL:HA	2:NE:368:LEU:HD11	1.87	0.55
3:NF:47:ILE:HG21	3:NF:59:TYR:CE2	2.42	0.55
3:NF:72:THR:O	3:NF:75:SER:OG	2.20	0.55
2:NG:12:ALA:O	25:NG:501:GTP:N1	2.40	0.55
2:NG:89:PRO:HD2	2:OG:280:LYS:HZ3	1.70	0.55
3:OF:211:CYS:HA	3:OF:215:LEU:HB2	1.89	0.55
3:OH:375:GLN:OE1	3:OH:375:GLN:N	2.36	0.55
19:P1:301:GLU:OE1	19:P1:301:GLU:N	2.32	0.55
19:P1:553:ILE:HG13	19:P1:560:PHE:HB3	1.89	0.55
2:PE:414:GLU:OE1	2:PE:414:GLU:N	2.40	0.55
3:PF:302:ALA:HB1	3:PF:377:LEU:HD11	1.89	0.55
20:Q1:1458:PHE:HB3	20:Q1:1463:LYS:HE3	1.89	0.55
3:QF:326:VAL:O	3:QF:330:MET:HG2	2.06	0.55
2:QI:329:ASN:HA	2:QI:332:ILE:HG12	1.89	0.55
2:SI:196:GLU:OE1	2:SI:196:GLU:N	2.32	0.55
3:SJ:234:SER:O	3:SJ:238:THR:HG23	2.07	0.55
3:SJ:341:PHE:HB3	3:SJ:348:ASN:HD21	1.71	0.55
3:TF:66:VAL:HG13	3:TF:147:MET:SD	2.47	0.55
3:TJ:325:GLU:O	3:TJ:329:GLN:HG2	2.07	0.55
3:UF:66:VAL:HG13	3:UF:147:MET:SD	2.46	0.55
3:UH:269:GLY:N	3:UH:367:PHE:O	2.39	0.55
3:VD:101:TRP:CE3	3:VD:187:LEU:HD13	2.42	0.55
2:VG:12:ALA:O	25:VG:501:GTP:N1	2.38	0.55
3:WF:11:GLN:HG3	25:WF:501:GTP:O5'	2.06	0.55
2:WG:408:TYR:HD2	2:WG:418:PHE:HZ	1.55	0.55
23:XL:82:VAL:HG12	23:XL:83:GLU:H	1.71	0.55
24:YJ:143:ILE:HG23	24:YJ:147:PHE:HE2	1.70	0.55
24:YM:26:ILE:HA	24:YM:29:LEU:HB2	1.88	0.55
24:YM:132:ASN:OD1	24:YM:133:HIS:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:79:ASP:O	1:A3:82:GLU:HG2	2.07	0.55
2:AI:141:PHE:CZ	2:AI:170:ALA:HB3	2.41	0.55
4:B3:89:ILE:HD11	4:B3:165:LEU:HB3	1.89	0.55
2:BE:209:ILE:HG21	2:BE:227:LEU:HG	1.88	0.55
25:BE:501:GTP:N3	25:BE:501:GTP:O4'	2.39	0.55
3:BH:41:ASP:OD1	3:BH:42:LEU:N	2.40	0.55
3:BH:267:MET:HB3	3:BH:299:MET:CE	2.37	0.55
3:BH:350:LYS:HZ1	2:BI:181:VAL:HG13	1.70	0.55
2:BI:208:ALA:H	2:BI:304:LYS:HZ1	1.55	0.55
2:CG:160:ASP:OD1	2:CG:161:TYR:N	2.40	0.55
6:D8:197:ALA:O	6:D8:201:ILE:HG12	2.07	0.55
2:DG:55:GLU:HB2	2:DG:61:HIS:CD2	2.42	0.55
3:DH:173:PRO:O	3:DH:380:ARG:NH2	2.40	0.55
3:DH:415:MET:O	3:DH:419:VAL:HG23	2.06	0.55
3:ED:19:LYS:O	3:ED:22:GLU:HG3	2.07	0.55
8:F2:408:CYS:HA	8:F3:296:TRP:CH2	2.42	0.55
3:FF:117:LEU:HD11	3:FF:154:LYS:HD2	1.89	0.55
3:FF:344:TRP:HA	2:FG:401:LYS:HZ3	1.72	0.55
9:G2:83:ALA:O	9:G2:84:GLU:HG3	2.07	0.55
10:G5:355:ASP:OD1	10:G5:356:CYS:N	2.39	0.55
2:GI:163:LYS:HG2	2:GI:164:LYS:HZ1	1.71	0.55
2:GI:392:ASP:OD1	2:GI:393:HIS:N	2.39	0.55
11:H4:279:GLN:HA	11:H4:308:TYR:CE2	2.42	0.55
2:HE:236:SER:O	2:HE:243:ARG:NH2	2.39	0.55
2:HG:188:ILE:CG2	2:HG:421:ALA:HB1	2.37	0.55
2:IE:116:ASP:OD1	2:IE:117:LEU:N	2.40	0.55
2:IE:208:ALA:H	2:IE:304:LYS:NZ	2.05	0.55
3:IH:255:VAL:HA	2:II:407:TRP:NE1	2.22	0.55
2:JE:310:GLY:HA3	2:JE:383:ALA:HB2	1.89	0.55
3:JF:374:ILE:HA	3:JF:377:LEU:HD13	1.89	0.55
2:JG:152:LEU:O	2:JG:155:GLU:HG3	2.07	0.55
14:K3:139:ARG:HB3	14:K3:264:TRP:CZ2	2.41	0.55
2:KI:288:VAL:HG11	2:KI:327:ASP:HB2	1.88	0.55
2:KI:329:ASN:HA	2:KI:332:ILE:HG12	1.88	0.55
2:LE:33:ASP:OD1	2:LE:34:GLY:N	2.40	0.55
2:LE:54:SER:OG	2:LE:64:ARG:NH2	2.39	0.55
2:LI:30:ILE:HD12	2:LI:61:HIS:CD2	2.41	0.55
2:ME:345:ASP:N	2:ME:345:ASP:OD1	2.40	0.55
2:MG:171:ILE:HD11	2:MG:206:ASN:H	1.71	0.55
3:OD:172:SER:OG	3:OD:205:GLU:OE2	2.18	0.55
3:OH:172:SER:HB3	3:OH:175:VAL:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:483:GLY:HA2	19:P1:503:THR:O	2.07	0.55
2:PE:49:PHE:HB2	2:PE:53:PHE:HB2	1.88	0.55
3:PF:344:TRP:HH2	2:PG:403:ALA:HB2	1.72	0.55
2:PI:223:THR:HG1	2:PI:225:THR:HG1	1.55	0.55
2:QE:3:GLU:H	2:QE:133:GLN:HE22	1.52	0.55
3:QH:135:LEU:HG	3:QH:137:HIS:CD2	2.40	0.55
2:QI:141:PHE:CE1	2:QI:170:ALA:HB3	2.42	0.55
3:RF:381:ILE:HG13	3:RF:385:PHE:CZ	2.42	0.55
2:RG:9:VAL:HA	2:RG:68:VAL:HG23	1.89	0.55
2:RG:220:GLU:O	2:RG:221:ARG:NE	2.39	0.55
3:RH:174:LYS:HG3	3:RH:175:VAL:HG13	1.89	0.55
2:RI:245:ASP:O	2:RI:356:ASN:ND2	2.40	0.55
2:RI:319:TYR:HB2	2:RI:355:ILE:HD13	1.88	0.55
2:SG:136:LEU:HB3	2:SG:138:PHE:CE2	2.42	0.55
2:SG:261:PRO:HA	3:SH:394:PHE:CE1	2.42	0.55
3:SJ:172:SER:OG	3:SJ:205:GLU:OE2	2.20	0.55
3:TH:282:ARG:NH2	3:TH:292:GLN:OE1	2.29	0.55
2:TI:246:GLY:HA3	2:TI:356:ASN:HA	1.89	0.55
3:TJ:415:MET:O	3:TJ:419:VAL:HG23	2.06	0.55
3:UD:12:CYS:SG	3:UD:13:GLY:N	2.80	0.55
3:UD:324:LYS:HE2	2:UE:222:PRO:CD	2.37	0.55
2:UE:263:PRO:C	2:UE:264:ARG:HD3	2.26	0.55
3:UF:288:GLU:HA	3:UF:291:GLN:HG3	1.88	0.55
3:UF:378:PHE:CD1	3:UF:419:VAL:HG22	2.42	0.55
2:UG:214:ARG:HH12	2:UG:215:ARG:HG3	1.71	0.55
2:VE:228:ASN:HA	2:VE:231:ILE:HG22	1.88	0.55
2:WE:244:PHE:HB2	2:WE:356:ASN:HD21	1.72	0.55
3:WH:371:SER:OG	3:WH:372:THR:N	2.40	0.55
22:XD:86:TYR:HA	22:XD:107:ASN:HD21	1.72	0.55
23:XK:89:TYR:HA	23:XK:93:LEU:HD13	1.89	0.55
23:XL:89:TYR:CD2	23:XL:125:LYS:HD3	2.42	0.55
23:XL:138:LYS:HA	23:XL:141:LEU:HD12	1.88	0.55
24:YN:5:LYS:HA	24:YN:8:LEU:HD12	1.88	0.55
1:A3:97:ARG:HE	1:A3:246:LEU:HD12	1.72	0.55
1:A3:162:ARG:HD2	1:A3:165:ARG:HH12	1.71	0.55
2:AG:12:ALA:HB1	25:AG:501:GTP:C2	2.42	0.55
3:AH:376:GLU:HA	3:AH:379:LYS:HE3	1.88	0.55
4:B7:5:SER:HB2	6:D7:326:LEU:HD22	1.89	0.55
2:BE:67:PHE:HB2	2:BE:92:LEU:HD13	1.89	0.55
2:BI:80:THR:HG23	11:H4:20:TYR:CE1	2.42	0.55
2:CG:51:THR:HG23	2:CG:52:PHE:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:75:GLU:O	6:D3:78:ARG:HG2	2.07	0.55
6:D4:349:PRO:O	6:D4:352:VAL:HG12	2.06	0.55
6:D8:67:ALA:O	6:D8:71:ARG:HG2	2.07	0.55
2:DG:262:TYR:CE1	3:DH:393:ALA:HA	2.42	0.55
3:DH:268:PRO:HD2	3:DH:301:ALA:HB2	1.89	0.55
3:DH:375:GLN:HA	3:DH:378:PHE:CE1	2.42	0.55
3:ED:231:ALA:HB2	9:G1:387:TYR:OH	2.07	0.55
3:ED:378:PHE:CE1	3:ED:419:VAL:HG22	2.42	0.55
2:EE:338:LYS:HZ2	2:EE:340:THR:H	1.53	0.55
2:EG:33:ASP:OD1	2:EG:35:GLN:N	2.40	0.55
2:FG:168:GLU:HG2	2:FG:201:ALA:HA	1.88	0.55
2:FG:297:GLU:OE1	2:FG:300:ASN:N	2.40	0.55
2:FG:338:LYS:NZ	2:FG:339:ARG:H	2.06	0.55
2:FG:390:ARG:HA	2:FG:393:HIS:CD2	2.42	0.55
3:FH:322:SER:OG	3:FH:324:LYS:NZ	2.28	0.55
3:GD:12:CYS:O	3:GD:15:GLN:HB2	2.07	0.55
3:GF:11:GLN:HG3	25:GF:501:GTP:PA	2.47	0.55
3:GH:105:HIS:HD2	3:GH:106:TYR:CZ	2.24	0.55
3:GH:172:SER:OG	3:GH:205:GLU:OE2	2.14	0.55
2:GI:362:VAL:HA	2:GI:368:LEU:HD11	1.89	0.55
11:H3:12:PRO:HB3	11:H3:43:LEU:HD22	1.89	0.55
11:H4:249:LYS:O	11:H4:253:VAL:HG23	2.06	0.55
3:HD:316:VAL:HG22	3:HD:352:ALA:HB3	1.89	0.55
3:HF:114:ASP:OD1	3:HF:115:SER:N	2.40	0.55
2:HG:75:VAL:HG11	2:HG:94:THR:HB	1.88	0.55
2:HG:338:LYS:NZ	2:HG:339:ARG:H	2.05	0.55
2:HI:297:GLU:CD	2:HI:299:ALA:H	2.09	0.55
12:I2:63:LEU:HG	12:I2:64:LEU:HD23	1.89	0.55
2:IE:51:THR:HG23	2:IE:52:PHE:HD1	1.72	0.55
3:IH:4:ILE:HD11	3:IH:131:GLN:HB2	1.89	0.55
3:IH:30:ILE:HG13	3:IH:36:TYR:HD1	1.70	0.55
2:II:133:GLN:O	2:II:165:SER:OG	2.23	0.55
3:JF:86:ARG:NE	3:JF:86:ARG:HA	2.22	0.55
2:JG:205:ASP:OD2	2:JG:304:LYS:NZ	2.40	0.55
2:JG:216:ASN:ND2	2:JG:275:VAL:HG23	2.22	0.55
14:K2:170:LYS:NZ	14:K2:474:TYR:HA	2.22	0.55
3:KD:309:ARG:NH2	3:KD:426:GLN:O	2.40	0.55
15:L2:90:LEU:H	15:L2:90:LEU:HD23	1.71	0.55
2:LE:294:ALA:O	2:LE:300:ASN:ND2	2.32	0.55
3:LF:324:LYS:HE3	2:LG:210:TYR:CE1	2.42	0.55
3:LF:331:LEU:HD11	2:LG:176:GLN:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:344:TRP:HD1	2:LG:401:LYS:HD3	1.72	0.55
3:LH:19:LYS:HE2	3:LH:223:GLY:HA2	1.88	0.55
16:M3:70:ASN:HA	16:M3:73:GLN:CD	2.27	0.55
2:ME:67:PHE:HB2	2:ME:92:LEU:HD13	1.88	0.55
2:MG:88:HIS:O	2:MG:91:GLN:HG3	2.07	0.55
3:MH:186:THR:HA	3:MH:189:VAL:HG22	1.89	0.55
3:NH:11:GLN:HA	3:NH:14:ASN:ND2	2.21	0.55
18:O2:90:ASP:O	18:O2:93:THR:OG1	2.21	0.55
3:OD:269:GLY:N	3:OD:367:PHE:O	2.40	0.55
3:OD:345:ILE:HG13	2:OE:401:LYS:NZ	2.22	0.55
3:OD:415:MET:O	3:OD:419:VAL:HG23	2.07	0.55
19:P2:63:HIS:CE1	19:P2:94:ILE:HD12	2.42	0.55
2:PE:28:HIS:HB3	2:PE:30:ILE:HG12	1.89	0.55
2:QE:390:ARG:HA	2:QE:393:HIS:CD2	2.41	0.55
3:QF:375:GLN:HE21	3:QF:422:TYR:HB3	1.72	0.55
3:RF:11:GLN:HG3	25:RF:501:GTP:O5'	2.07	0.55
3:RH:22:GLU:O	3:RH:25:SER:OG	2.21	0.55
2:SE:54:SER:O	2:SE:62:VAL:N	2.40	0.55
2:SE:210:TYR:CD1	2:SE:222:PRO:HG3	2.42	0.55
2:SG:230:LEU:O	2:SG:233:GLN:NE2	2.39	0.55
3:TF:325:GLU:O	3:TF:329:GLN:HG2	2.05	0.55
3:TF:372:THR:HG21	3:TF:426:GLN:HG2	1.88	0.55
3:TJ:143:THR:O	3:TJ:147:MET:HG2	2.07	0.55
3:TJ:300:MET:N	3:TJ:300:MET:SD	2.80	0.55
3:TJ:347:ASN:O	3:TJ:350:LYS:NZ	2.35	0.55
3:UD:150:LEU:O	3:UD:153:SER:OG	2.24	0.55
2:VE:1:MET:O	2:VE:131:GLY:HA3	2.07	0.55
2:VE:3:GLU:H	2:VE:133:GLN:HE22	1.55	0.55
2:VE:54:SER:N	2:VE:62:VAL:O	2.39	0.55
3:WF:114:ASP:OD1	3:WF:115:SER:N	2.38	0.55
2:WG:429:GLU:O	2:WG:432:TYR:N	2.40	0.55
22:XC:72:LYS:HZ1	23:XJ:62:ARG:HB3	1.72	0.55
24:YI:59:ASN:O	24:YI:61:THR:N	2.40	0.55
1:A3:18:ILE:O	1:A3:21:LYS:HG3	2.07	0.54
3:AF:21:TRP:CZ2	3:AF:63:ALA:HB2	2.42	0.54
3:AH:249:ASP:HB3	3:AH:252:LYS:HB2	1.89	0.54
5:C3:121:ARG:NH1	5:C4:375:ILE:HA	2.22	0.54
5:C8:403:ARG:HB3	5:C8:406:ARG:NH2	2.21	0.54
2:CI:397:LEU:HB3	2:CI:401:LYS:HZ1	1.72	0.54
3:CJ:42:LEU:HD11	3:CJ:356:ILE:HG13	1.90	0.54
6:D3:231:TYR:CZ	6:D4:356:ARG:HD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:208:ALA:N	2:DE:304:LYS:HZ1	2.05	0.54
2:DG:213:CYS:HA	2:DG:217:LEU:HB2	1.89	0.54
3:DH:107:THR:OG1	3:DH:401:GLU:OE2	2.22	0.54
3:ED:176:SER:O	3:ED:178:THR:N	2.40	0.54
3:ED:275:SER:N	3:ED:278:SER:OG	2.38	0.54
2:EE:115:VAL:HA	2:EE:118:VAL:HG22	1.89	0.54
3:EF:16:ILE:HG12	3:EF:226:ASN:ND2	2.22	0.54
3:EF:257:MET:SD	3:EF:314:ALA:HB2	2.47	0.54
3:FD:390:ARG:O	3:FD:392:LYS:NZ	2.35	0.54
9:G1:275:ILE:HD13	9:G1:292:MET:HB3	1.90	0.54
3:GD:250:LEU:HD13	3:GD:253:LEU:HD12	1.89	0.54
3:GH:3:GLU:HG2	3:GH:130:LEU:HD23	1.90	0.54
3:GH:156:ARG:NH1	3:GH:195:ASN:OD1	2.39	0.54
11:H3:290:PRO:HB2	11:H3:315:ARG:HD2	1.88	0.54
3:IF:6:HIS:CE1	3:IF:8:GLN:HB2	2.42	0.54
3:IF:217:LEU:O	3:IF:219:THR:N	2.39	0.54
2:II:166:LYS:N	2:II:199:ASP:OD2	2.40	0.54
13:J3:92:HIS:HB2	13:J3:123:TYR:CE2	2.42	0.54
3:JD:8:GLN:NE2	3:JD:17:GLY:HA3	2.21	0.54
3:JF:285:THR:O	3:JF:288:GLU:HG3	2.08	0.54
14:K3:165:LEU:O	14:K3:169:ARG:HG3	2.06	0.54
2:KE:175:PRO:O	2:KE:390:ARG:NH1	2.40	0.54
3:KF:36:TYR:CE2	3:KF:44:LEU:HD13	2.41	0.54
2:KG:70:LEU:HD12	2:KG:97:GLU:O	2.07	0.54
2:KG:115:VAL:HA	2:KG:118:VAL:HG22	1.89	0.54
3:KH:405:GLU:O	3:KH:409:THR:HG23	2.07	0.54
3:LF:97:ALA:HA	3:LF:103:LYS:NZ	2.22	0.54
3:LF:249:ASP:OD1	3:LF:250:LEU:N	2.40	0.54
3:LH:182:PRO:HB2	3:LH:388:MET:HE2	1.89	0.54
2:ME:260:VAL:HG21	2:ME:266:HIS:HB3	1.89	0.54
3:MF:183:TYR:CZ	3:MF:388:MET:HG3	2.42	0.54
2:MI:2:ARG:NH1	2:MI:241:SER:O	2.40	0.54
2:MI:69:ASP:OD1	2:MI:70:LEU:N	2.39	0.54
2:MI:173:PRO:HB3	2:MI:183:GLU:OE2	2.07	0.54
2:NG:220:GLU:O	2:NG:221:ARG:NE	2.36	0.54
3:NH:111:GLU:OE1	3:NH:111:GLU:N	2.41	0.54
3:NH:152:ILE:O	3:NH:156:ARG:HG2	2.07	0.54
3:OF:56:GLY:H	24:YK:59:ASN:HA	1.72	0.54
2:OI:144:GLY:N	25:OI:501:GTP:O2B	2.40	0.54
19:P2:258:CYS:HA	19:P2:264:LEU:HD13	1.88	0.54
19:P2:391:SER:O	19:P2:398:ILE:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:233:MET:HA	3:PF:236:VAL:HG12	1.89	0.54
3:PH:52:ASN:O	3:PH:60:VAL:N	2.39	0.54
3:PH:377:LEU:O	3:PH:381:ILE:HD12	2.07	0.54
2:PI:33:ASP:OD1	2:PI:34:GLY:N	2.40	0.54
2:PI:49:PHE:O	2:PI:52:PHE:N	2.39	0.54
3:QH:152:ILE:HG13	3:QH:153:SER:N	2.22	0.54
2:RG:390:ARG:HA	2:RG:393:HIS:NE2	2.23	0.54
3:RJ:52:ASN:O	3:RJ:60:VAL:N	2.40	0.54
3:SH:139:LEU:N	3:SH:168:SER:OG	2.39	0.54
2:SI:262:TYR:OH	3:SJ:391:ARG:O	2.25	0.54
2:TG:206:ASN:HA	2:TG:209:ILE:HD12	1.88	0.54
3:UD:324:LYS:HE3	2:UE:210:TYR:HE1	1.72	0.54
2:UE:33:ASP:OD1	2:UE:34:GLY:N	2.40	0.54
3:UH:80:PRO:O	3:UH:83:GLN:NE2	2.37	0.54
3:UH:117:LEU:HD11	3:UH:154:LYS:HD2	1.90	0.54
3:UH:214:THR:HG21	3:UH:273:LEU:HB3	1.87	0.54
3:VD:104:GLY:HA2	3:VD:108:GLU:HB2	1.89	0.54
2:VE:320:ARG:HD3	2:VE:360:PRO:HG3	1.88	0.54
2:VE:417:GLU:OE1	2:VE:417:GLU:N	2.40	0.54
2:WG:24:TYR:HA	2:WG:27:GLU:OE1	2.07	0.54
24:YI:46:ILE:HG23	24:YI:50:GLN:HE22	1.71	0.54
24:YI:140:LEU:HD12	24:YI:141:ILE:HG13	1.87	0.54
24:YJ:96:LEU:HD11	24:YJ:150:GLU:OE2	2.07	0.54
24:YJ:155:SER:HA	24:YJ:158:LEU:HB2	1.89	0.54
2:AE:27:GLU:OE1	2:AE:27:GLU:N	2.38	0.54
2:AE:280:LYS:NZ	2:ME:89:PRO:HD2	2.23	0.54
2:AE:285:GLN:HB2	2:ME:56:THR:HG21	1.90	0.54
2:AG:297:GLU:HG2	2:AG:298:PRO:HD2	1.89	0.54
2:AI:293:ASN:HB3	17:N3:68:LYS:HZ1	1.72	0.54
2:AI:311:LYS:NZ	2:AI:343:PHE:O	2.37	0.54
3:BF:67:ASP:OD2	3:BF:72:THR:OG1	2.19	0.54
5:C3:362:HIS:O	5:C3:366:THR:HG23	2.08	0.54
5:C8:365:LEU:HD13	5:C8:455:LEU:HD22	1.89	0.54
3:CF:310:TYR:HD1	3:CF:371:SER:HB2	1.72	0.54
3:CH:12:CYS:SG	3:CH:13:GLY:N	2.80	0.54
6:D7:377:LEU:O	6:D7:381:VAL:HG13	2.07	0.54
2:DE:260:VAL:HG23	2:DE:265:ILE:O	2.07	0.54
2:DG:208:ALA:H	2:DG:304:LYS:HZ1	1.55	0.54
3:DH:11:GLN:HG3	25:DH:501:GTP:PA	2.47	0.54
3:DH:198:GLU:HG2	3:DH:266:PHE:HE2	1.71	0.54
3:ED:156:ARG:NH1	3:ED:195:ASN:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EG:264:ARG:HG3	2:EG:265:ILE:N	2.21	0.54
3:EH:67:ASP:OD2	3:EH:72:THR:OG1	2.20	0.54
8:F7:399:ARG:NE	8:F7:413:GLN:HE21	2.05	0.54
2:FG:33:ASP:OD1	2:FG:34:GLY:N	2.40	0.54
9:G2:534:ARG:HA	9:G2:534:ARG:NH1	2.23	0.54
10:G5:257:ASP:HB3	10:G5:259:THR:HG22	1.89	0.54
10:G5:575:LYS:HA	10:G5:734:ARG:NH1	2.21	0.54
3:GD:3:GLU:O	3:GD:130:LEU:HD12	2.07	0.54
11:H3:11:THR:HG22	11:H3:12:PRO:HD2	1.89	0.54
3:HD:322:SER:N	3:HD:325:GLU:OE2	2.31	0.54
2:HE:12:ALA:HB2	25:HE:501:GTP:H5''	1.88	0.54
3:HF:174:LYS:HG3	3:HF:175:VAL:HG12	1.89	0.54
2:HG:33:ASP:OD1	2:HG:35:GLN:N	2.38	0.54
2:HG:48:SER:OG	2:HG:243:ARG:NE	2.39	0.54
2:HI:117:LEU:O	2:HI:121:ARG:HG2	2.06	0.54
3:IF:198:GLU:HG2	3:IF:266:PHE:CE1	2.42	0.54
2:IG:25:CYS:HB2	2:IG:30:ILE:HB	1.89	0.54
2:II:207:GLU:HA	2:II:210:TYR:HD2	1.72	0.54
3:JD:152:ILE:HA	3:JD:155:ILE:HG12	1.89	0.54
3:JH:404:ASP:HB3	3:JH:406:MET:HG3	1.88	0.54
3:KF:200:TYR:CD1	3:KF:266:PHE:HB2	2.42	0.54
3:KF:426:GLN:NE2	3:KF:427:ASP:OD1	2.40	0.54
2:LE:172:TYR:CG	2:LE:173:PRO:HD2	2.41	0.54
2:LE:178:SER:OG	2:LE:180:ALA:O	2.24	0.54
16:M2:85:GLU:OE1	16:M2:85:GLU:N	2.30	0.54
2:ME:2:ARG:CZ	2:ME:242:LEU:HA	2.37	0.54
2:ME:117:LEU:O	2:ME:121:ARG:HG2	2.07	0.54
2:ME:224:TYR:HB3	2:ME:228:ASN:ND2	2.22	0.54
3:MF:156:ARG:NH1	3:MF:195:ASN:O	2.40	0.54
2:MG:434:GLU:OE2	2:MG:434:GLU:N	2.40	0.54
2:MI:133:GLN:HB3	2:MI:252:LEU:HD21	1.88	0.54
17:N3:68:LYS:HZ3	17:N3:70:ASP:N	2.04	0.54
3:ND:286:VAL:HG11	3:ND:325:GLU:HB2	1.88	0.54
2:NG:30:ILE:HG13	2:NG:53:PHE:HE2	1.72	0.54
3:NH:31:ASP:OD2	3:NH:33:THR:OG1	2.24	0.54
3:NH:304:ASP:O	3:NH:307:HIS:ND1	2.33	0.54
3:NH:394:PHE:HA	3:NH:397:TRP:CZ3	2.42	0.54
2:NI:30:ILE:HG23	2:NI:36:MET:HE3	1.87	0.54
2:NI:33:ASP:OD1	2:NI:34:GLY:N	2.40	0.54
18:O2:30:GLU:O	18:O2:31:LYS:HD3	2.06	0.54
3:OD:11:GLN:HE21	25:OD:501:GTP:H3'	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:48:ASN:O	3:OD:62:ARG:NH2	2.30	0.54
3:OD:162:ARG:HA	3:OD:251:ARG:HH21	1.72	0.54
2:OE:228:ASN:HA	2:OE:231:ILE:HG12	1.89	0.54
2:OE:286:LEU:HG	2:OE:373:ARG:HD2	1.89	0.54
3:OH:32:PRO:O	3:OH:83:GLN:NE2	2.36	0.54
3:OH:349:VAL:O	3:OH:350:LYS:NZ	2.28	0.54
20:Q2:1456:ARG:O	20:Q2:1460:THR:HG23	2.07	0.54
3:QF:111:GLU:N	3:QF:111:GLU:OE1	2.40	0.54
2:QG:113:GLU:N	2:QG:113:GLU:OE1	2.39	0.54
2:QG:273:ALA:HB2	2:QG:295:CYS:HB3	1.89	0.54
2:QI:214:ARG:NH1	2:QI:215:ARG:HG3	2.22	0.54
2:QI:234:ILE:O	2:QI:237:SER:OG	2.23	0.54
2:QI:319:TYR:HA	2:QI:374:ALA:O	2.07	0.54
2:RE:91:GLN:HB3	2:RE:121:ARG:HH21	1.72	0.54
3:RF:42:LEU:O	3:RF:46:ARG:HG2	2.06	0.54
2:RI:144:GLY:N	25:RI:501:GTP:O2B	2.38	0.54
2:SE:50:ASN:O	2:SE:64:ARG:NH1	2.40	0.54
2:SE:396:ASP:OD1	2:SE:397:LEU:N	2.40	0.54
2:SI:75:VAL:HG11	2:SI:94:THR:HB	1.89	0.54
2:SI:257:THR:HA	3:SJ:397:TRP:CZ2	2.41	0.54
2:TG:384:ILE:HB	2:TG:388:TRP:HZ3	1.73	0.54
3:TH:286:VAL:HG21	3:TH:325:GLU:HG3	1.89	0.54
3:TJ:11:GLN:O	25:TJ:501:GTP:N2	2.34	0.54
2:UE:288:VAL:HG11	2:UE:327:ASP:HB2	1.87	0.54
3:UH:322:SER:OG	3:UH:324:LYS:NZ	2.31	0.54
3:VD:292:GLN:O	3:VD:298:ASN:ND2	2.34	0.54
3:VF:84:ILE:O	3:VF:86:ARG:NH1	2.40	0.54
3:VF:152:ILE:HA	3:VF:155:ILE:HG12	1.88	0.54
2:VG:427:ALA:HA	2:VG:430:LYS:HG2	1.88	0.54
3:VH:164:MET:HE1	3:VH:195:ASN:O	2.08	0.54
2:WE:85:GLN:HG2	2:WE:86:LEU:HD12	1.89	0.54
3:WF:8:GLN:NE2	3:WF:17:GLY:HA3	2.23	0.54
3:WF:178:THR:HB	3:WF:181:GLU:HB2	1.89	0.54
3:WF:372:THR:HG21	3:WF:426:GLN:HG2	1.88	0.54
2:WI:1:MET:N	2:WI:130:THR:OG1	2.40	0.54
22:XC:107:ASN:HA	22:XC:123:MET:HB2	1.87	0.54
23:XL:97:PHE:HE2	23:XL:133:LEU:HB3	1.72	0.54
24:YN:130:ALA:HB3	24:YN:131:ARG:HH11	1.72	0.54
1:A2:67:LEU:HG	1:A2:71:ARG:HE	1.72	0.54
3:AH:212:PHE:O	3:AH:216:LYS:NZ	2.39	0.54
4:B7:202:LYS:HG3	6:D8:212:GLU:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:214:ARG:NH1	2:BE:215:ARG:HG3	2.22	0.54
2:BG:297:GLU:CD	2:BG:299:ALA:H	2.11	0.54
3:BH:12:CYS:HA	25:BH:501:GTP:N2	2.21	0.54
5:C3:272:GLN:HA	5:C4:399:ARG:HH12	1.71	0.54
5:C7:119:ARG:NH2	7:E2:149:PHE:H	2.04	0.54
5:C8:153:LEU:HB3	5:C8:265:LEU:HD11	1.89	0.54
5:C8:296:VAL:HG12	5:C8:298:GLU:OE1	2.08	0.54
2:CG:117:LEU:O	2:CG:121:ARG:HG2	2.06	0.54
6:D8:351:ARG:HB2	6:D9:240:PHE:HE1	1.70	0.54
2:DE:125:LEU:HD13	2:DE:128:LEU:HD21	1.88	0.54
3:DH:122:LYS:HD2	3:EH:291:GLN:HE21	1.73	0.54
3:DH:289:LEU:HD21	3:DH:363:MET:HB2	1.89	0.54
3:EH:15:GLN:HG3	3:EH:222:TYR:HE2	1.71	0.54
8:F6:215:LEU:O	8:F6:218:GLU:HG3	2.07	0.54
2:FE:89:PRO:HD2	2:GE:280:LYS:NZ	2.22	0.54
3:FH:3:GLU:OE2	3:FH:128:ASP:N	2.35	0.54
9:G2:319:GLU:N	9:G2:319:GLU:OE1	2.40	0.54
9:G2:415:ASN:HB2	9:G2:418:LYS:HD3	1.88	0.54
2:GG:296:PHE:CE2	2:GG:335:ILE:HG21	2.42	0.54
2:GG:401:LYS:C	2:GG:402:ARG:HD3	2.28	0.54
2:GI:397:LEU:O	2:GI:401:LYS:HG2	2.07	0.54
11:H3:255:ARG:HD2	11:H3:257:PRO:HD3	1.89	0.54
3:HD:2:ARG:HB3	3:HD:131:GLN:CD	2.28	0.54
2:HG:263:PRO:HB2	2:HG:264:ARG:NH1	2.22	0.54
2:HI:226:ASN:ND2	2:HI:367:ASP:OD2	2.40	0.54
2:IE:363:VAL:H	2:IE:368:LEU:HD21	1.72	0.54
2:IG:166:LYS:N	2:IG:199:ASP:OD2	2.40	0.54
3:IH:256:ASN:HD21	3:IH:350:LYS:HD2	1.73	0.54
13:J2:31:SER:OG	13:J2:32:ASN:N	2.40	0.54
3:JD:344:TRP:HD1	2:JE:401:LYS:HD3	1.71	0.54
3:JF:11:GLN:HG3	25:JF:501:GTP:PA	2.47	0.54
14:K2:461:VAL:HA	14:K2:464:ARG:HE	1.71	0.54
2:KE:102:ASN:HB3	2:KE:105:ARG:HB2	1.90	0.54
15:L2:220:SER:HB2	2:VE:43:GLY:HA3	1.88	0.54
2:LE:259:LEU:HD21	2:LE:316:CYS:HB2	1.90	0.54
2:LE:329:ASN:HA	2:LE:332:ILE:HG12	1.89	0.54
3:LH:392:LYS:HD2	3:LH:392:LYS:O	2.08	0.54
3:MH:371:SER:OG	3:MH:372:THR:N	2.40	0.54
2:NE:269:LEU:HD11	2:NE:384:ILE:HG21	1.88	0.54
2:NG:97:GLU:OE2	2:NG:105:ARG:NH2	2.32	0.54
2:NG:208:ALA:H	2:NG:304:LYS:HZ1	1.53	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:3:GLU:N	2:OG:133:GLN:OE1	2.40	0.54
2:OI:84:ARG:NH1	24:YN:124:HIS:HA	2.17	0.54
19:P1:396:GLY:O	19:P1:415:ALA:N	2.40	0.54
19:P2:317:VAL:HG22	19:P2:324:GLU:HA	1.87	0.54
2:PE:255:PHE:HA	2:PE:259:LEU:HD23	1.88	0.54
2:PE:392:ASP:OD1	2:PE:393:HIS:N	2.41	0.54
2:PI:21:TRP:HA	2:PI:24:TYR:CD2	2.42	0.54
3:QH:405:GLU:OE1	3:QH:405:GLU:N	2.33	0.54
2:QI:207:GLU:HB2	2:QI:304:LYS:HE2	1.88	0.54
3:RF:77:ARG:O	3:RF:77:ARG:NH1	2.36	0.54
2:RG:1:MET:N	2:RG:130:THR:OG1	2.39	0.54
2:RG:391:LEU:O	2:RG:395:PHE:HD1	1.90	0.54
3:SF:252:LYS:HD3	2:SG:100:ALA:HA	1.88	0.54
2:TG:116:ASP:N	2:TG:116:ASP:OD1	2.40	0.54
2:TG:122:ILE:HD13	2:TG:157:LEU:HD21	1.90	0.54
3:TH:321:MET:HE1	3:TH:363:MET:HG3	1.88	0.54
3:TJ:20:PHE:HA	3:TJ:230:SER:HB2	1.89	0.54
3:UD:11:GLN:OE1	25:UD:501:GTP:N2	2.40	0.54
3:UF:246:LEU:HB2	3:UF:352:ALA:HB1	1.88	0.54
3:UF:285:THR:O	3:UF:288:GLU:HG3	2.07	0.54
3:VF:211:CYS:SG	3:VF:220:PRO:HG3	2.46	0.54
3:VF:323:MET:SD	3:VF:324:LYS:NZ	2.77	0.54
2:VG:140:SER:HB2	2:VG:171:ILE:HG22	1.88	0.54
2:WE:108:TYR:O	2:WE:112:LYS:NZ	2.24	0.54
2:WE:207:GLU:HB2	2:WE:304:LYS:NZ	2.22	0.54
2:WG:107:HIS:CD2	2:WG:152:LEU:HB2	2.42	0.54
22:XC:7:GLN:HE22	22:XC:71:ILE:HD13	1.73	0.54
24:YJ:116:LYS:O	24:YJ:119:HIS:ND1	2.36	0.54
24:YK:59:ASN:HB2	24:YK:62:HIS:ND1	2.22	0.54
24:YL:114:ARG:HH21	24:YL:119:HIS:HB3	1.73	0.54
1:A2:152:ARG:NH1	12:I2:76:ASN:OD1	2.39	0.54
1:A2:214:LEU:O	1:A2:217:TRP:HB3	2.07	0.54
2:AE:116:ASP:OD1	2:AE:117:LEU:N	2.40	0.54
3:AF:261:PRO:HD3	2:AG:406:HIS:CG	2.42	0.54
4:B3:364:ASP:O	4:B3:368:LYS:NZ	2.33	0.54
3:BF:229:VAL:O	3:BF:232:THR:OG1	2.20	0.54
2:BG:240:ALA:HB1	2:BG:356:ASN:HD22	1.72	0.54
5:C3:141:HIS:C	5:C4:419:ARG:HH12	2.10	0.54
3:CH:4:ILE:HD11	3:CH:131:GLN:HB2	1.89	0.54
6:D8:111:HIS:HA	6:D8:114:LYS:HD3	1.89	0.54
2:DE:244:PHE:CE2	2:DE:358:GLN:HG2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:317:MET:HE3	2:DE:319:TYR:HE1	1.72	0.54
3:ED:136:THR:HG22	3:ED:167:PHE:HD2	1.71	0.54
8:F2:370:GLN:NE2	8:F2:370:GLN:O	2.41	0.54
8:F6:163:LEU:HD23	8:F6:311:ARG:HH11	1.72	0.54
8:F7:372:GLU:O	8:F7:375:ILE:HG22	2.07	0.54
3:FD:113:VAL:HA	3:FD:116:VAL:HG22	1.89	0.54
3:FD:347:ASN:HB3	2:FE:178:SER:HB3	1.89	0.54
2:FE:113:GLU:OE1	2:FE:113:GLU:N	2.40	0.54
3:FF:172:SER:HB2	3:FF:175:VAL:O	2.08	0.54
9:G1:529:ALA:O	9:G1:532:GLN:HG3	2.06	0.54
3:GF:142:GLY:N	25:GF:501:GTP:O3B	2.40	0.54
11:H3:227:ARG:HH12	11:H3:231:VAL:N	2.06	0.54
3:HD:350:LYS:HE3	2:HE:181:VAL:H	1.72	0.54
3:HF:16:ILE:HG21	3:HF:167:PHE:HE2	1.73	0.54
3:HF:229:VAL:O	3:HF:232:THR:OG1	2.20	0.54
3:HF:310:TYR:CD1	3:HF:371:SER:HB2	2.42	0.54
2:IE:115:VAL:HA	2:IE:118:VAL:HG22	1.89	0.54
13:J3:92:HIS:HB2	13:J3:123:TYR:HE2	1.72	0.54
3:JH:12:CYS:SG	25:JH:501:GTP:H5'	2.47	0.54
14:K3:476:GLN:OE1	14:K3:476:GLN:N	2.34	0.54
3:KD:311:LEU:HG	3:KD:312:THR:HG23	1.90	0.54
2:KE:47:ASP:O	2:KE:50:ASN:N	2.22	0.54
2:KG:3:GLU:OE2	2:KG:131:GLY:N	2.40	0.54
3:KH:316:VAL:HG22	3:KH:352:ALA:HB3	1.88	0.54
3:KH:394:PHE:HA	3:KH:397:TRP:HZ3	1.73	0.54
3:LH:325:GLU:HB3	2:LI:221:ARG:NH1	2.23	0.54
2:MG:313:MET:HE1	2:MG:382:THR:HG23	1.90	0.54
3:MH:66:VAL:HG13	3:MH:147:MET:SD	2.47	0.54
2:MI:192:HIS:HA	2:MI:195:LEU:HD23	1.89	0.54
3:NH:223:GLY:HA2	3:NH:226:ASN:HD22	1.72	0.54
3:OH:273:LEU:H	3:OH:292:GLN:NE2	2.05	0.54
2:OI:402:ARG:HB2	2:OI:405:VAL:HG11	1.88	0.54
19:P2:106:ARG:N	19:P2:145:ARG:HH12	2.06	0.54
2:PE:10:GLY:O	2:PE:14:VAL:HG13	2.08	0.54
2:PE:102:ASN:HB3	2:PE:105:ARG:HB2	1.89	0.54
2:PE:178:SER:OG	2:PE:180:ALA:O	2.25	0.54
3:PF:197:ASP:OD1	3:PF:198:GLU:N	2.39	0.54
2:PG:272:TYR:CE1	2:PG:374:ALA:HB1	2.39	0.54
2:QI:272:TYR:CZ	2:QI:274:PRO:HG2	2.42	0.54
21:R2:273:GLY:O	21:R2:275:LEU:N	2.41	0.54
2:RE:103:TYR:CE2	2:RE:189:LEU:HB3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RE:216:ASN:HB2	2:RE:276:ILE:HD12	1.90	0.54
2:RI:341:ILE:O	2:RI:342:GLN:NE2	2.40	0.54
3:RJ:206:ALA:O	3:RJ:210:ILE:HG13	2.08	0.54
2:SG:60:LYS:NZ	2:SG:85:GLN:O	2.34	0.54
2:SG:90:GLU:HG2	2:SG:121:ARG:CZ	2.37	0.54
3:SH:193:VAL:HG21	3:SH:418:LEU:HD21	1.88	0.54
3:SH:318:ARG:HD3	3:SH:358:PRO:HG3	1.88	0.54
3:SH:324:LYS:HG3	2:SI:221:ARG:NH1	2.22	0.54
3:SH:376:GLU:HG2	3:SH:377:LEU:HD12	1.88	0.54
2:SI:1:MET:SD	2:SI:2:ARG:N	2.80	0.54
2:SI:119:LEU:HA	2:SI:122:ILE:HG12	1.89	0.54
3:SJ:6:HIS:CE1	3:SJ:136:THR:HG23	2.43	0.54
3:SJ:72:THR:O	3:SJ:76:VAL:HG23	2.07	0.54
2:TI:209:ILE:HG21	2:TI:227:LEU:HG	1.89	0.54
2:TI:274:PRO:HG3	2:TI:374:ALA:HA	1.88	0.54
3:UH:178:THR:HB	3:UH:181:GLU:HB2	1.88	0.54
2:WI:135:PHE:HD2	2:WI:166:LYS:HG3	1.73	0.54
22:XE:39:ASP:O	22:XE:43:GLN:HA	2.07	0.54
22:XE:84:LYS:NZ	23:XK:241:ASN:H	2.06	0.54
23:XK:224:ALA:O	23:XK:228:ILE:HG12	2.07	0.54
24:YI:96:LEU:HD13	24:YI:151:TRP:HA	1.89	0.54
24:YJ:139:SER:O	24:YJ:143:ILE:HG13	2.08	0.54
24:YK:5:LYS:HE2	24:YK:152:ILE:HB	1.90	0.54
3:AF:36:TYR:CE2	3:AF:44:LEU:HD12	2.42	0.54
3:AF:111:GLU:N	3:AF:111:GLU:OE1	2.40	0.54
2:AG:88:HIS:HB3	2:AG:91:GLN:HB2	1.90	0.54
2:AI:117:LEU:O	2:AI:121:ARG:HG2	2.08	0.54
4:B7:134:GLU:HA	4:B7:137:LEU:HD12	1.90	0.54
3:BF:246:LEU:HD13	3:BF:353:VAL:C	2.26	0.54
2:BI:34:GLY:O	2:BI:61:HIS:ND1	2.41	0.54
2:BI:215:ARG:NH1	2:BI:299:ALA:O	2.34	0.54
5:C8:413:ARG:HD3	5:C8:413:ARG:H	1.70	0.54
3:CF:64:VAL:HA	3:CF:89:ASN:HB3	1.88	0.54
2:CI:265:ILE:HB	2:CI:432:TYR:CE1	2.43	0.54
3:CJ:415:MET:O	3:CJ:419:VAL:HG23	2.06	0.54
6:D7:331:ASP:O	6:D8:78:ARG:NH2	2.41	0.54
6:D7:387:SER:O	6:D7:391:LEU:HG	2.07	0.54
3:DD:12:CYS:SG	3:DD:13:GLY:N	2.80	0.54
2:DE:229:ARG:NH1	2:DE:233:GLN:HB2	2.22	0.54
3:DF:8:GLN:OE1	3:DF:14:ASN:HA	2.07	0.54
2:DG:414:GLU:N	2:DG:414:GLU:OE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:191:GLN:OE1	3:EF:195:ASN:ND2	2.39	0.54
8:F3:106:ALA:O	8:F3:110:ARG:HG3	2.07	0.54
8:F6:162:ARG:HB3	8:F6:311:ARG:NH2	2.23	0.54
8:F6:272:SER:HB2	8:F7:387:TYR:OH	2.07	0.54
2:FE:257:THR:HA	3:FF:397:TRP:CZ2	2.43	0.54
3:FF:180:VAL:HG13	3:FF:184:ASN:OD1	2.07	0.54
2:FG:310:GLY:HA3	2:FG:383:ALA:HB2	1.90	0.54
3:FH:382:SER:HB3	3:FH:415:MET:CE	2.38	0.54
9:G2:30:THR:HG21	3:LH:77:ARG:HG2	1.89	0.54
10:G5:437:PHE:HE1	10:G5:453:VAL:HG13	1.70	0.54
3:GD:405:GLU:N	3:GD:405:GLU:OE1	2.38	0.54
3:GF:128:ASP:OD1	3:GF:129:CYS:N	2.40	0.54
3:GH:234:SER:O	3:GH:238:THR:HG23	2.07	0.54
2:GI:116:ASP:N	2:GI:116:ASP:OD1	2.39	0.54
2:GI:207:GLU:HB2	2:GI:304:LYS:HZ1	1.71	0.54
11:H4:215:ARG:HH11	11:H4:216:LYS:H	1.55	0.54
3:HF:415:MET:O	3:HF:419:VAL:HG23	2.07	0.54
2:HI:329:ASN:HA	2:HI:332:ILE:HG12	1.89	0.54
3:IH:134:GLN:OE1	3:IH:134:GLN:N	2.41	0.54
13:J2:47:ILE:HG13	13:J2:102:LEU:HD23	1.90	0.54
2:JE:200:CYS:HA	2:JE:266:HIS:HB2	1.88	0.54
3:JF:111:GLU:OE1	3:JF:111:GLU:N	2.40	0.54
2:JG:209:ILE:HG21	2:JG:227:LEU:HG	1.89	0.54
14:K4:228:ALA:O	14:K4:231:ARG:HG3	2.07	0.54
14:K4:269:ARG:NH1	14:K4:272:THR:HG1	2.05	0.54
2:KE:2:ARG:CZ	2:KE:242:LEU:HA	2.37	0.54
3:KH:246:LEU:HD12	3:KH:352:ALA:HB1	1.90	0.54
15:L2:66:HIS:N	3:LD:414:ASN:HD21	2.04	0.54
2:LE:245:ASP:O	2:LE:356:ASN:ND2	2.41	0.54
3:LF:21:TRP:HZ3	3:LF:51:TYR:HE1	1.54	0.54
3:LF:415:MET:O	3:LF:419:VAL:HG23	2.07	0.54
2:ME:127:ASP:OD1	2:ME:128:LEU:N	2.38	0.54
3:MF:11:GLN:NE2	25:MF:501:GTP:H3'	2.22	0.54
2:MG:33:ASP:OD1	2:MG:35:GLN:N	2.29	0.54
2:MG:426:ALA:O	2:MG:430:LYS:NZ	2.41	0.54
3:ND:324:LYS:HD3	2:NE:210:TYR:CE1	2.42	0.54
3:NH:116:VAL:HG23	3:NH:117:LEU:HD22	1.90	0.54
2:NI:427:ALA:HA	2:NI:430:LYS:HG2	1.90	0.54
18:O2:83:ALA:HA	18:O2:118:PHE:CE1	2.43	0.54
3:OD:175:VAL:HG22	3:OD:177:ASP:H	1.73	0.54
2:OG:88:HIS:CE1	2:OG:121:ARG:HH22	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P2:244:PRO:HB2	19:P2:246:LYS:O	2.07	0.54
19:P2:338:ILE:HG22	19:P2:350:THR:HG22	1.88	0.54
3:PF:3:GLU:OE2	3:PF:129:CYS:N	2.40	0.54
3:PH:226:ASN:HA	3:PH:229:VAL:HG22	1.89	0.54
20:Q1:1452:ARG:NH1	20:Q1:1456:ARG:HB2	2.22	0.54
20:Q2:1344:LEU:O	20:Q2:1348:LYS:HG2	2.07	0.54
20:Q2:1417:ARG:HG3	20:Q2:1419:ARG:N	2.22	0.54
2:QE:117:LEU:O	2:QE:121:ARG:HG2	2.08	0.54
2:QE:213:CYS:O	2:QE:218:ASP:N	2.40	0.54
2:QE:216:ASN:ND2	2:QE:275:VAL:O	2.41	0.54
2:QE:331:ALA:O	2:QE:335:ILE:HG12	2.08	0.54
3:QF:207:LEU:HD13	3:QF:225:LEU:HB3	1.88	0.54
2:QG:189:LEU:HA	2:QG:192:HIS:CE1	2.43	0.54
2:QI:272:TYR:HE1	2:QI:374:ALA:HB1	1.73	0.54
3:RF:150:LEU:O	3:RF:153:SER:OG	2.22	0.54
2:RI:98:ASP:O	2:RI:105:ARG:NE	2.39	0.54
2:RI:172:TYR:HB2	2:RI:203:MET:HB2	1.89	0.54
2:SE:21:TRP:HE1	2:SE:63:PRO:HB3	1.73	0.54
2:SE:144:GLY:N	25:SE:501:GTP:O2B	2.38	0.54
3:SF:378:PHE:CE1	3:SF:419:VAL:HG12	2.42	0.54
3:SH:31:ASP:OD1	3:SH:35:THR:N	2.41	0.54
3:SH:378:PHE:HE1	3:SH:419:VAL:HA	1.72	0.54
2:SI:351:PHE:HE1	3:SJ:175:VAL:HG21	1.72	0.54
2:TG:76:ASP:OD1	2:TG:79:ARG:NH1	2.33	0.54
3:UF:4:ILE:HD11	3:UF:131:GLN:HB2	1.90	0.54
3:UF:103:LYS:O	3:UF:108:GLU:N	2.28	0.54
3:UH:41:ASP:N	3:UH:41:ASP:OD1	2.39	0.54
3:VD:3:GLU:OE2	3:VD:127:CYS:HB2	2.07	0.54
3:VF:20:PHE:O	3:VF:24:ILE:HG13	2.08	0.54
2:VG:408:TYR:O	2:VG:411:GLU:HG3	2.07	0.54
2:WG:123:ARG:HD2	2:WG:124:LYS:N	2.23	0.54
2:WG:327:ASP:OD1	2:WG:328:VAL:N	2.40	0.54
2:WI:235:VAL:O	2:WI:238:ILE:HG22	2.08	0.54
2:WI:339:ARG:O	2:WI:342:GLN:NE2	2.41	0.54
22:XE:160:CYS:SG	22:XE:162:ILE:HD11	2.48	0.54
23:XJ:148:ILE:O	23:XJ:152:THR:HG23	2.07	0.54
1:A2:337:LEU:O	1:A2:341:ILE:HG12	2.07	0.54
2:AE:189:LEU:O	2:AE:192:HIS:ND1	2.39	0.54
2:AI:2:ARG:CZ	2:AI:242:LEU:HA	2.37	0.54
5:C2:284:PHE:CE1	5:C3:401:ASP:HB2	2.42	0.54
5:C8:222:GLU:OE1	5:C8:339:GLN:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C8:365:LEU:HB2	5:C8:455:LEU:HD21	1.90	0.54
2:CG:326:LYS:NZ	3:CH:220:PRO:O	2.40	0.54
2:DE:33:ASP:OD1	2:DE:34:GLY:N	2.41	0.54
2:DE:141:PHE:HB2	2:DE:173:PRO:HD3	1.90	0.54
3:EF:137:HIS:ND1	3:EF:138:SER:O	2.40	0.54
8:F3:100:ASP:OD2	8:F3:104:ARG:NH2	2.36	0.54
25:FF:502:GTP:C5	2:FG:224:TYR:CE2	2.89	0.54
2:FG:88:HIS:HB3	2:FG:91:GLN:HG2	1.90	0.54
9:G1:188:ARG:HG3	9:G1:189:PHE:H	1.72	0.54
3:GD:285:THR:O	3:GD:288:GLU:HG3	2.08	0.54
3:GD:289:LEU:HD21	3:GD:363:MET:HG3	1.89	0.54
11:H4:13:GLU:O	11:H4:15:HIS:N	2.40	0.54
11:H4:251:GLN:O	11:H4:255:ARG:HG2	2.08	0.54
2:HE:90:GLU:OE1	2:IE:280:LYS:NZ	2.32	0.54
2:IE:3:GLU:N	2:IE:3:GLU:OE1	2.40	0.54
3:IF:334:GLN:HA	3:IF:341:PHE:HE2	1.72	0.54
2:IG:89:PRO:HD3	3:JF:281:TYR:CE2	2.43	0.54
2:IG:396:ASP:OD1	2:IG:397:LEU:N	2.41	0.54
2:II:9:VAL:HG11	2:II:150:ALA:HB2	1.90	0.54
3:JF:325:GLU:HB3	2:JG:221:ARG:NH1	2.23	0.54
14:K3:201:TRP:HE1	14:K3:331:ARG:NH2	2.02	0.54
3:KD:249:ASP:OD1	3:KD:250:LEU:N	2.41	0.54
2:KG:174:ALA:HB3	2:KG:177:VAL:O	2.07	0.54
2:KI:397:LEU:O	2:KI:401:LYS:HG2	2.07	0.54
3:LD:266:PHE:CE1	3:LD:370:ASN:HB2	2.43	0.54
3:LF:2:ARG:HD3	3:LF:131:GLN:HG3	1.88	0.54
3:LF:109:GLY:O	3:LF:113:VAL:HG13	2.08	0.54
3:LH:40:SER:HB2	3:LH:43:GLN:CG	2.35	0.54
16:M2:42:LEU:HD12	16:M2:43:PRO:HD2	1.89	0.54
16:M3:66:PHE:O	16:M3:70:ASN:ND2	2.40	0.54
3:MF:12:CYS:SG	3:MF:13:GLY:N	2.81	0.54
3:MH:113:VAL:HA	3:MH:116:VAL:HG22	1.89	0.54
3:MH:137:HIS:O	3:MH:168:SER:HA	2.06	0.54
3:ND:318:ARG:HA	3:ND:354:CYS:O	2.08	0.54
2:NE:22:GLU:HG2	2:NE:83:TYR:CE2	2.43	0.54
3:NF:117:LEU:HA	3:NF:120:VAL:HG22	1.88	0.54
3:NH:64:VAL:HG21	3:NH:120:VAL:HG12	1.88	0.54
3:NH:132:GLY:HA2	3:NH:162:ARG:HB3	1.90	0.54
3:OD:6:HIS:HD2	3:OD:134:GLN:HG2	1.73	0.54
3:OH:137:HIS:O	3:OH:168:SER:HA	2.08	0.54
3:OH:172:SER:OG	3:OH:205:GLU:OE2	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:296:PHE:CE2	2:OI:335:ILE:HG21	2.42	0.54
19:P1:486:ILE:HB	19:P1:488:TRP:CZ2	2.43	0.54
2:PE:50:ASN:O	2:PE:64:ARG:NH1	2.40	0.54
2:PE:224:TYR:HE2	25:PE:501:GTP:C6	2.25	0.54
2:PI:224:TYR:HE2	25:PI:501:GTP:C6	2.25	0.54
2:PI:269:LEU:HD11	2:PI:302:MET:SD	2.48	0.54
2:PI:365:GLY:N	24:YN:40:ILE:HD11	2.23	0.54
2:QG:90:GLU:OE1	2:QG:90:GLU:N	2.41	0.54
2:QG:384:ILE:HB	2:QG:388:TRP:HZ3	1.72	0.54
3:QH:41:ASP:N	3:QH:41:ASP:OD1	2.41	0.54
2:QI:76:ASP:OD1	2:QI:79:ARG:NH1	2.40	0.54
2:QI:203:MET:N	2:QI:203:MET:SD	2.79	0.54
2:RE:33:ASP:OD1	2:RE:34:GLY:N	2.40	0.54
2:RG:67:PHE:HB2	2:RG:92:LEU:HD13	1.89	0.54
2:RG:271:THR:HA	2:RG:302:MET:HE1	1.90	0.54
3:RH:253:LEU:O	3:RH:257:MET:HG2	2.08	0.54
2:SE:160:ASP:OD1	2:SE:161:TYR:N	2.40	0.54
3:SH:41:ASP:N	3:SH:41:ASP:OD1	2.39	0.54
2:TG:216:ASN:ND2	2:TG:275:VAL:O	2.41	0.54
3:UF:141:GLY:HA3	25:UF:501:GTP:H5''	1.88	0.54
3:UF:252:LYS:O	3:UF:256:ASN:ND2	2.41	0.54
2:UG:306:ASP:HB3	2:UG:309:HIS:ND1	2.23	0.54
3:UH:203:ASP:OD2	3:UH:206:ALA:N	2.37	0.54
3:VF:119:VAL:HG13	3:VF:122:LYS:HE3	1.89	0.54
2:VG:30:ILE:HG23	2:VG:36:MET:HE3	1.89	0.54
2:VG:85:GLN:OE1	2:VG:85:GLN:N	2.39	0.54
2:VG:320:ARG:HH21	2:VG:358:GLN:HE21	1.56	0.54
2:WE:53:PHE:O	2:WE:64:ARG:NH1	2.36	0.54
2:WI:288:VAL:HA	2:WI:291:ILE:HG12	1.90	0.54
22:XD:125:LEU:HD13	22:XD:130:ASN:HD21	1.71	0.54
23:XJ:137:ILE:O	23:XJ:141:LEU:HG	2.06	0.54
23:XJ:171:LEU:HB3	23:XJ:172:PRO:HD3	1.89	0.54
24:YI:160:ARG:HD3	24:YI:163:LEU:HD12	1.90	0.54
24:YK:144:VAL:HA	24:YK:147:PHE:CE2	2.43	0.54
2:AE:311:LYS:HZ2	2:AE:342:GLN:HB3	1.72	0.54
2:AI:234:ILE:HD11	2:AI:272:TYR:HB2	1.88	0.54
4:B3:123:ARG:HE	4:B3:124:ARG:H	1.54	0.54
4:B7:160:GLN:HE21	6:D8:436:ARG:NH2	2.06	0.54
2:BE:144:GLY:N	25:BE:501:GTP:O2B	2.39	0.54
3:BF:239:CYS:SG	3:BF:248:ALA:HA	2.47	0.54
2:BI:3:GLU:N	2:BI:133:GLN:OE1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:274:LEU:HD23	5:C4:399:ARG:HG2	1.89	0.54
3:CF:11:GLN:HA	3:CF:14:ASN:HD22	1.73	0.54
2:CG:47:ASP:O	2:CG:50:ASN:N	2.35	0.54
3:DH:54:ALA:HA	3:EH:283:ALA:HB2	1.88	0.54
3:ED:274:THR:HG21	3:ED:279:GLN:HG3	1.89	0.54
2:EG:40:LYS:NZ	9:G2:421:ARG:HH22	2.05	0.54
8:F7:189:GLN:HA	8:F7:192:LEU:HG	1.89	0.54
3:FH:70:PRO:HA	3:FH:73:MET:SD	2.47	0.54
10:G5:436:TYR:CE1	10:G5:529:THR:HG21	2.42	0.54
2:GG:358:GLN:NE2	2:GG:359:PRO:O	2.37	0.54
3:GH:229:VAL:O	3:GH:232:THR:OG1	2.16	0.54
3:GH:394:PHE:HD1	3:GH:397:TRP:HZ3	1.56	0.54
2:GI:17:GLY:O	2:GI:21:TRP:HE3	1.91	0.54
2:GI:120:ASP:O	2:GI:123:ARG:HG2	2.07	0.54
2:HI:166:LYS:O	2:HI:199:ASP:HB2	2.08	0.54
3:IF:130:LEU:HB2	3:IF:162:ARG:HH11	1.73	0.54
3:JH:19:LYS:O	3:JH:22:GLU:HG3	2.07	0.54
3:JH:378:PHE:HE1	3:JH:419:VAL:HG13	1.72	0.54
14:K2:354:LEU:HD21	14:K2:443:LEU:HB3	1.90	0.54
14:K3:358:ARG:NH2	21:R2:131:GLY:O	2.36	0.54
2:KE:390:ARG:HA	2:KE:393:HIS:CD2	2.43	0.54
2:LI:330:ALA:O	2:LI:334:THR:HG23	2.08	0.54
2:ME:35:GLN:NE2	2:ME:59:GLY:O	2.41	0.54
2:ME:75:VAL:HG22	2:ME:79:ARG:HH21	1.72	0.54
3:MH:423:GLN:HA	3:MH:426:GLN:HE21	1.72	0.54
2:MI:322:ASP:N	2:MI:322:ASP:OD1	2.40	0.54
3:ND:246:LEU:HD12	3:ND:352:ALA:HB1	1.89	0.54
2:NG:318:LEU:HB2	2:NG:376:CYS:SG	2.47	0.54
3:OD:271:ALA:HB1	3:OD:272:PRO:HD2	1.90	0.54
2:OE:89:PRO:HD2	2:PE:280:LYS:NZ	2.22	0.54
2:OE:113:GLU:N	2:OE:113:GLU:OE1	2.39	0.54
3:OF:70:PRO:HA	3:OF:73:MET:SD	2.47	0.54
2:PE:56:THR:HB	2:QE:285:GLN:HG3	1.89	0.54
2:PG:139:HIS:HE1	2:PG:168:GLU:HB3	1.72	0.54
2:QI:247:ALA:HB3	2:QI:355:ILE:HB	1.90	0.54
21:R2:119:ASN:HB2	21:R2:149:ILE:HG13	1.89	0.54
2:RE:216:ASN:ND2	2:RE:275:VAL:O	2.41	0.54
2:RG:255:PHE:O	2:RG:259:LEU:HB2	2.07	0.54
3:RH:152:ILE:HA	3:RH:155:ILE:HG12	1.88	0.54
2:RI:394:LYS:O	2:RI:397:LEU:HG	2.08	0.54
3:RJ:7:LEU:HB2	3:RJ:135:LEU:HG	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:349:THR:HG21	3:SH:176:SER:OG	2.07	0.54
2:SI:10:GLY:O	2:SI:14:VAL:HG13	2.07	0.54
3:SJ:152:ILE:O	3:SJ:156:ARG:HG2	2.08	0.54
2:UE:195:LEU:HD22	2:UE:428:LEU:HD21	1.89	0.54
2:UE:287:SER:OG	2:UE:290:GLU:OE1	2.24	0.54
2:VE:346:TRP:CH2	3:VF:391:ARG:HB2	2.43	0.54
3:VF:271:ALA:HB1	3:VF:272:PRO:HD2	1.90	0.54
2:VG:105:ARG:HD2	2:VG:109:THR:HG21	1.90	0.54
3:VH:81:PHE:O	3:VH:84:ILE:HG22	2.08	0.54
3:VH:238:THR:HA	3:VH:241:ARG:HG2	1.90	0.54
2:WE:128:LEU:HA	23:XJ:106:PRO:HG3	1.90	0.54
22:XE:79:ILE:HG13	22:XE:131:GLN:OE1	2.07	0.54
24:YI:14:LYS:NZ	24:YI:72:ILE:HD13	2.23	0.54
2:AE:88:HIS:CE1	2:BE:280:LYS:HZ1	2.26	0.54
3:AF:12:CYS:HA	3:AF:15:GLN:HG2	1.90	0.54
2:AG:1:MET:O	2:AG:133:GLN:NE2	2.41	0.54
3:AH:357:PRO:HB3	3:AH:362:LYS:O	2.07	0.54
3:BF:11:GLN:HG3	25:BF:501:GTP:O5'	2.08	0.54
2:BG:306:ASP:OD2	2:BG:308:ARG:HG2	2.07	0.54
2:BI:224:TYR:CE1	25:BI:501:GTP:C5	2.90	0.54
5:C7:231:GLU:HA	5:C7:234:ARG:NE	2.23	0.54
3:DD:324:LYS:HD3	2:DE:210:TYR:CZ	2.43	0.54
2:DE:57:GLY:HA2	10:G5:415:ARG:HH21	1.73	0.54
3:DF:28:HIS:ND1	3:DF:43:GLN:HB2	2.23	0.54
2:DG:88:HIS:CE1	2:DG:121:ARG:HH22	2.26	0.54
2:DG:262:TYR:HE1	3:DH:393:ALA:HA	1.73	0.54
3:DH:172:SER:HB3	3:DH:175:VAL:O	2.08	0.54
3:EF:247:ASN:HB3	3:EF:252:LYS:CG	2.36	0.54
3:EH:163:ILE:HD11	3:EH:251:ARG:HG3	1.89	0.54
3:EH:234:SER:O	3:EH:238:THR:HG23	2.07	0.54
8:F2:174:LYS:HE2	8:F2:236:ILE:HG13	1.88	0.54
8:F3:127:LYS:HA	8:F3:130:LEU:HD12	1.90	0.54
3:FD:12:CYS:HA	25:FD:501:GTP:N2	2.22	0.54
2:FG:352:LYS:HD3	3:FH:178:THR:HA	1.88	0.54
3:FH:73:MET:HA	3:FH:76:VAL:HG22	1.90	0.54
9:G2:309:PRO:HD2	9:G2:312:VAL:HG22	1.90	0.54
10:G5:409:LEU:HB3	10:G5:410:LYS:HZ3	1.73	0.54
3:GD:2:ARG:HH22	2:GE:96:LYS:HB3	1.73	0.54
2:GE:390:ARG:HG3	2:GE:393:HIS:HE1	1.72	0.54
3:GF:291:GLN:NE2	3:GF:295:ASP:OD1	2.41	0.54
3:GF:426:GLN:NE2	3:GF:427:ASP:OD1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:168:GLU:OE1	2:GG:198:SER:OG	2.24	0.54
2:GI:230:LEU:O	2:GI:233:GLN:HG3	2.08	0.54
2:GI:288:VAL:HG11	2:GI:327:ASP:HB2	1.88	0.54
2:HG:53:PHE:HB3	2:HG:61:HIS:HB3	1.90	0.54
2:HG:113:GLU:OE1	2:HG:113:GLU:N	2.40	0.54
2:HG:274:PRO:HG3	2:HG:374:ALA:HA	1.90	0.54
2:HI:145:THR:HG23	25:HI:501:GTP:O3B	2.07	0.54
2:IE:16:ILE:HG13	2:IE:17:GLY:H	1.71	0.54
2:II:33:ASP:OD1	2:II:35:GLN:N	2.34	0.54
13:J2:162:ARG:HG2	13:J2:163:ASN:H	1.73	0.54
13:J2:176:PRO:HB2	13:J2:179:TYR:HB2	1.90	0.54
13:J3:146:ASN:ND2	13:J3:175:ILE:HG22	2.23	0.54
2:JG:56:THR:OG1	2:KG:285:GLN:HG3	2.08	0.54
2:JG:216:ASN:HD21	2:JG:275:VAL:HG23	1.72	0.54
3:JH:2:ARG:HB3	3:JH:131:GLN:NE2	2.23	0.54
14:K2:360:THR:HA	14:K2:363:ARG:HG2	1.88	0.54
14:K3:355:GLY:HA2	14:K3:358:ARG:HE	1.73	0.54
3:KD:420:SER:OG	3:KD:421:GLU:OE2	2.22	0.54
2:KG:220:GLU:HG2	2:KG:221:ARG:HG2	1.89	0.54
3:LD:263:LEU:HD13	3:LD:422:TYR:CZ	2.42	0.54
3:LF:380:ARG:CZ	3:LF:380:ARG:HB3	2.38	0.54
2:LG:68:VAL:HG11	2:LG:149:PHE:HE2	1.73	0.54
3:LH:141:GLY:HA3	25:LH:501:GTP:H5'	1.89	0.54
3:LH:216:LYS:O	3:LH:276:ARG:NH2	2.41	0.54
3:MF:172:SER:OG	3:MF:205:GLU:OE2	2.21	0.54
3:ND:15:GLN:OE1	3:ND:15:GLN:HA	2.07	0.54
2:NI:167:LEU:HD13	2:NI:200:CYS:HB2	1.88	0.54
2:OE:310:GLY:HA3	2:OE:383:ALA:HB2	1.88	0.54
3:OF:183:TYR:CD1	3:OF:388:MET:HE3	2.42	0.54
3:PF:12:CYS:HA	25:PF:501:GTP:N3	2.22	0.54
3:PF:249:ASP:O	3:PF:252:LYS:HB2	2.07	0.54
3:PF:375:GLN:HA	3:PF:378:PHE:CE1	2.43	0.54
2:PG:171:ILE:HD12	2:PG:204:VAL:HG13	1.88	0.54
2:PG:311:LYS:N	2:PG:382:THR:OG1	2.40	0.54
2:PG:319:TYR:HB3	2:PG:323:VAL:HG11	1.90	0.54
3:PH:299:MET:SD	3:PH:301:ALA:N	2.78	0.54
2:PI:229:ARG:NH1	2:PI:233:GLN:HB3	2.21	0.54
2:PI:320:ARG:CZ	2:PI:360:PRO:HA	2.37	0.54
20:Q1:1411:GLU:OE1	20:Q1:1415:MET:N	2.40	0.54
20:Q1:1452:ARG:HA	20:Q1:1455:ARG:HB3	1.89	0.54
20:Q1:1473:ASP:HA	20:Q1:1476:LYS:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:82:THR:HA	2:QE:84:ARG:HH11	1.73	0.54
2:QI:292:THR:HG21	2:QI:335:ILE:HD11	1.89	0.54
2:RE:390:ARG:HA	2:RE:393:HIS:HD2	1.73	0.54
3:RF:305:PRO:HB2	3:RF:310:TYR:HE1	1.72	0.54
3:RF:380:ARG:HA	3:RF:383:GLU:OE1	2.08	0.54
2:RG:316:CYS:HB3	2:RG:378:LEU:HB2	1.89	0.54
3:RH:375:GLN:HA	3:RH:378:PHE:CZ	2.43	0.54
2:RI:11:GLN:HA	2:RI:14:VAL:HG22	1.89	0.54
2:RI:211:ASP:O	2:RI:214:ARG:NH1	2.41	0.54
3:SF:165:ASN:HA	3:SF:198:GLU:HB3	1.89	0.54
3:SH:233:MET:HA	3:SH:236:VAL:HG12	1.89	0.54
2:TG:213:CYS:O	2:TG:218:ASP:N	2.41	0.54
2:TG:246:GLY:HA2	2:TG:357:TYR:HD2	1.72	0.54
2:TG:338:LYS:HZ2	2:TG:340:THR:H	1.56	0.54
2:TI:182:VAL:HA	2:TI:185:TYR:CD2	2.41	0.54
2:TI:185:TYR:OH	2:TI:403:ALA:O	2.14	0.54
2:UG:170:ALA:O	2:UG:204:VAL:HG12	2.08	0.54
3:UH:150:LEU:C	3:UH:154:LYS:HZ3	2.11	0.54
3:VD:81:PHE:O	3:VD:84:ILE:HG12	2.08	0.54
3:VD:378:PHE:CE1	3:VD:419:VAL:HA	2.43	0.54
2:WE:120:ASP:OD1	2:WE:123:ARG:NH1	2.41	0.54
3:WF:150:LEU:O	3:WF:153:SER:OG	2.20	0.54
2:WG:2:ARG:HG2	2:WG:242:LEU:HD23	1.90	0.54
2:WI:5:ILE:HB	2:WI:135:PHE:CD1	2.43	0.54
22:XC:173:SER:OG	22:XC:176:GLU:OE1	2.21	0.54
23:XL:180:ILE:O	23:XL:183:ILE:HG22	2.07	0.54
24:YL:4:VAL:HG21	24:YL:83:PHE:CZ	2.43	0.54
1:A2:68:GLU:OE2	4:B3:270:ARG:NH1	2.41	0.54
3:AH:151:LEU:O	3:AH:155:ILE:HG12	2.08	0.54
2:AI:8:HIS:CE1	2:AI:21:TRP:CH2	2.95	0.54
4:B8:309:MET:HA	4:B8:312:LYS:HD2	1.90	0.54
2:BE:345:ASP:N	2:BE:345:ASP:OD1	2.41	0.54
2:BG:1:MET:O	2:BG:131:GLY:HA3	2.08	0.54
2:BG:67:PHE:HB2	2:BG:92:LEU:HD13	1.89	0.54
3:BH:324:LYS:HD3	2:BI:210:TYR:CE1	2.43	0.54
3:BH:350:LYS:NZ	2:BI:181:VAL:HG13	2.23	0.54
3:CJ:41:ASP:N	3:CJ:41:ASP:OD1	2.41	0.54
3:DD:5:VAL:HB	3:DD:133:PHE:CD2	2.43	0.54
3:DD:70:PRO:HA	3:DD:73:MET:HE3	1.90	0.54
2:DG:99:ALA:HB3	2:DG:145:THR:HA	1.90	0.54
2:DG:356:ASN:OD1	2:DG:357:TYR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:219:ILE:CD1	11:H3:299:THR:HA	2.38	0.54
3:EH:260:PHE:HB2	3:EH:263:LEU:HD23	1.90	0.54
3:FD:257:MET:O	3:FD:259:PRO:HD3	2.07	0.54
25:FF:502:GTP:N1	2:FG:15:GLN:HG3	2.21	0.54
9:G1:184:VAL:HG21	9:G1:207:ILE:HD13	1.90	0.54
10:G5:109:GLU:OE1	10:G5:109:GLU:N	2.31	0.54
2:GE:288:VAL:HG11	2:GE:327:ASP:CG	2.29	0.54
3:GH:166:THR:HG1	3:GH:199:THR:HG1	1.56	0.54
11:H4:305:ARG:O	11:H4:308:TYR:HB3	2.07	0.54
2:HE:3:GLU:CD	2:HE:132:LEU:H	2.11	0.54
2:HG:33:ASP:OD1	2:HG:34:GLY:N	2.41	0.54
2:HG:154:MET:SD	2:HG:166:LYS:NZ	2.81	0.54
2:HG:338:LYS:HZ3	2:HG:339:ARG:H	1.55	0.54
2:II:174:ALA:HB3	2:II:177:VAL:O	2.08	0.54
13:J3:153:ILE:HA	13:J3:156:GLU:OE1	2.08	0.54
3:JD:12:CYS:O	3:JD:16:ILE:HG12	2.08	0.54
3:JD:54:ALA:HA	3:KD:283:ALA:HB2	1.90	0.54
2:JE:21:TRP:CH2	2:JE:63:PRO:HB3	2.43	0.54
3:JF:324:LYS:HD3	2:JG:210:TYR:CE1	2.43	0.54
14:K3:358:ARG:HA	14:K3:361:ILE:HD12	1.90	0.54
3:KD:5:VAL:HG23	3:KD:130:LEU:HD11	1.90	0.54
3:KF:260:PHE:HB2	3:KF:263:LEU:HD23	1.90	0.54
2:KG:36:MET:HG3	2:KG:41:THR:OG1	2.07	0.54
3:LD:2:ARG:HH12	2:LE:96:LYS:HB3	1.73	0.54
2:LE:396:ASP:OD1	2:LE:397:LEU:N	2.41	0.54
3:LH:12:CYS:SG	3:LH:13:GLY:N	2.81	0.54
3:LH:345:ILE:HD12	3:LH:346:PRO:HD2	1.89	0.54
16:M2:94:GLU:OE1	16:M2:94:GLU:N	2.38	0.54
3:MH:247:ASN:HB3	3:MH:252:LYS:HG2	1.90	0.54
2:NE:56:THR:HB	2:OE:285:GLN:HG3	1.90	0.54
2:NG:397:LEU:O	2:NG:401:LYS:HG2	2.08	0.54
3:NH:239:CYS:HB3	3:NH:248:ALA:HA	1.90	0.54
3:NH:305:PRO:HA	3:NH:373:ALA:HB2	1.89	0.54
2:NI:319:TYR:HB2	2:NI:355:ILE:HD13	1.90	0.54
3:OF:15:GLN:HB2	3:OF:222:TYR:HE2	1.73	0.54
2:OG:5:ILE:HB	2:OG:135:PHE:CD1	2.43	0.54
2:OG:107:HIS:HA	2:OG:152:LEU:HD23	1.89	0.54
3:OH:111:GLU:OE1	3:OH:111:GLU:N	2.41	0.54
19:P2:549:ASN:N	19:P2:563:GLY:O	2.41	0.54
2:PE:88:HIS:CE1	2:PE:121:ARG:HH22	2.26	0.54
2:PE:205:ASP:OD2	2:PE:304:LYS:NZ	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:296:PHE:HE2	2:PE:335:ILE:HD13	1.73	0.54
3:PF:47:ILE:HG21	3:PF:59:TYR:CE1	2.43	0.54
20:Q1:1397:CYS:SG	20:Q1:1435:SER:N	2.81	0.54
3:QF:12:CYS:SG	3:QF:13:GLY:N	2.81	0.54
3:QF:31:ASP:OD1	3:QF:35:THR:N	2.41	0.54
2:QG:288:VAL:HA	2:QG:291:ILE:HG12	1.89	0.54
2:RE:16:ILE:HG13	2:RE:17:GLY:N	2.22	0.54
2:RI:397:LEU:O	2:RI:401:LYS:HE2	2.08	0.54
2:SE:47:ASP:HB3	2:SE:49:PHE:CE2	2.43	0.54
2:SG:320:ARG:CZ	2:SG:360:PRO:HA	2.38	0.54
3:SH:94:GLN:OE1	3:SH:94:GLN:N	2.36	0.54
2:SI:53:PHE:HB3	2:SI:61:HIS:HB3	1.90	0.54
3:TF:100:ASN:OD1	3:TF:103:LYS:N	2.33	0.54
2:TG:2:ARG:HG2	2:TG:242:LEU:HD23	1.89	0.54
2:TG:23:LEU:HD12	2:TG:232:GLY:HA3	1.90	0.54
3:UD:28:HIS:ND1	3:UD:43:GLN:OE1	2.41	0.54
3:UD:179:VAL:O	3:UD:182:PRO:HD2	2.08	0.54
2:UE:332:ILE:HG12	2:UE:336:LYS:HE3	1.89	0.54
3:UF:378:PHE:HA	3:UF:381:ILE:HG22	1.88	0.54
2:UG:286:LEU:HG	2:UG:373:ARG:HD2	1.89	0.54
3:VD:20:PHE:CZ	3:VD:24:ILE:HD11	2.43	0.54
2:WE:326:LYS:HB2	3:WF:212:PHE:HZ	1.73	0.54
2:WG:239:THR:OG1	2:WG:243:ARG:NH1	2.38	0.54
22:XC:174:GLU:O	22:XC:182:LYS:NZ	2.33	0.54
23:XK:201:LYS:N	23:XK:203:GLU:OE2	2.33	0.54
24:YI:137:VAL:HG23	24:YI:138:VAL:HG13	1.90	0.54
24:YJ:117:TYR:CD1	24:YJ:118:PRO:HA	2.43	0.54
24:YL:159:PRO:HB2	24:YL:161:LYS:HG2	1.90	0.54
1:A3:149:LEU:HD21	12:I3:58:GLU:HG3	1.89	0.54
3:AF:392:LYS:O	3:AF:395:LEU:HD22	2.08	0.54
3:AH:175:VAL:HG22	3:AH:177:ASP:H	1.72	0.54
3:AH:372:THR:HB	3:AH:375:GLN:HE22	1.71	0.54
2:AI:209:ILE:HG21	2:AI:227:LEU:HG	1.90	0.54
4:B8:123:ARG:HG2	4:B8:128:VAL:HG22	1.90	0.54
2:BE:71:GLU:OE1	2:BE:145:THR:HG21	2.08	0.54
2:BG:10:GLY:O	2:BG:14:VAL:HG13	2.08	0.54
5:C2:101:ARG:HA	5:C2:104:LEU:HD12	1.90	0.54
5:C2:275:ARG:NH1	5:C2:276:ASN:O	2.41	0.54
3:CF:259:PRO:HG2	3:CF:311:LEU:HD21	1.90	0.54
3:CF:334:GLN:OE1	3:CF:335:ASN:ND2	2.41	0.54
2:CG:325:PRO:O	2:CG:329:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:285:THR:O	3:CH:288:GLU:HG3	2.08	0.54
2:CI:220:GLU:HG2	2:CI:221:ARG:HG2	1.89	0.54
2:CI:419:SER:HA	2:CI:422:ARG:HH21	1.73	0.54
6:D2:73:TYR:O	6:D2:77:GLN:HG2	2.07	0.54
3:DF:83:GLN:OE1	3:DF:83:GLN:N	2.33	0.54
8:F6:292:ILE:O	8:F6:295:THR:OG1	2.26	0.54
8:F6:469:CYS:HB3	8:F6:473:ARG:NH2	2.22	0.54
2:FE:324:VAL:HG11	3:FF:219:THR:OG1	2.08	0.54
2:FE:392:ASP:OD1	2:FE:393:HIS:N	2.40	0.54
2:FG:101:ASN:OD1	2:FG:144:GLY:HA2	2.07	0.54
9:G1:320:VAL:HG21	9:G1:323:TRP:CZ2	2.43	0.54
9:G2:297:MET:HG3	9:G2:337:ILE:HD11	1.89	0.54
10:G5:346:VAL:HB	10:G5:349:ARG:HB2	1.88	0.54
3:GD:217:LEU:HD11	3:GD:220:PRO:HB3	1.89	0.54
3:GD:309:ARG:NH1	3:GD:341:PHE:O	2.41	0.54
3:GD:316:VAL:HG22	3:GD:352:ALA:HB3	1.89	0.54
2:GE:353:VAL:HG12	3:GF:177:ASP:OD1	2.08	0.54
2:GG:113:GLU:OE1	2:GG:113:GLU:N	2.41	0.54
3:HD:136:THR:HA	3:HD:167:PHE:HB2	1.89	0.54
2:HE:235:VAL:HA	2:HE:238:ILE:HG12	1.89	0.54
3:HF:375:GLN:HA	3:HF:378:PHE:CZ	2.44	0.54
3:HH:164:MET:SD	3:HH:196:THR:HA	2.48	0.54
3:HH:173:PRO:O	3:HH:380:ARG:NH2	2.41	0.54
3:IF:21:TRP:CZ3	3:IF:61:PRO:HB3	2.43	0.54
2:IG:1:MET:O	2:IG:131:GLY:HA3	2.08	0.54
3:IH:132:GLY:HA2	3:IH:162:ARG:HB3	1.90	0.54
2:II:89:PRO:HD3	3:JH:281:TYR:CE2	2.43	0.54
2:II:113:GLU:N	2:II:113:GLU:OE1	2.41	0.54
2:JE:338:LYS:NZ	2:JE:339:ARG:H	2.06	0.54
2:KG:102:ASN:CG	2:KG:105:ARG:H	2.11	0.54
2:KI:25:CYS:HB2	2:KI:30:ILE:HB	1.90	0.54
2:KI:185:TYR:O	2:KI:189:LEU:HG	2.08	0.54
3:LD:152:ILE:HD12	3:LD:155:ILE:HD11	1.90	0.54
3:LD:218:THR:OG1	3:LD:219:THR:N	2.40	0.54
3:LF:41:ASP:N	3:LF:41:ASP:OD1	2.41	0.54
3:LF:238:THR:HG21	3:LF:318:ARG:CZ	2.38	0.54
3:LF:322:SER:OG	3:LF:324:LYS:NZ	2.40	0.54
2:LG:127:ASP:OD1	2:LG:128:LEU:N	2.39	0.54
3:LH:100:ASN:ND2	3:LH:103:LYS:HG2	2.23	0.54
16:M2:47:LEU:O	16:M2:49:GLN:NE2	2.40	0.54
2:MG:213:CYS:O	2:MG:217:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:197:ASP:OD1	3:MH:198:GLU:N	2.40	0.54
2:NE:224:TYR:CE1	25:NE:501:GTP:C5	2.92	0.54
2:NG:34:GLY:HA2	2:NG:86:LEU:HD21	1.90	0.54
2:NI:316:CYS:O	2:NI:377:MET:HA	2.08	0.54
2:OE:60:LYS:HE3	2:PE:283:HIS:HA	1.90	0.54
2:OG:53:PHE:HB3	2:OG:61:HIS:HB3	1.90	0.54
3:OH:323:MET:SD	3:OH:323:MET:N	2.72	0.54
2:OI:209:ILE:HG21	2:OI:227:LEU:HG	1.88	0.54
2:PE:224:TYR:HE2	25:PE:501:GTP:C5	2.26	0.54
3:PF:198:GLU:HG2	3:PF:266:PHE:CE2	2.43	0.54
2:PI:320:ARG:HG2	2:PI:358:GLN:O	2.08	0.54
2:QE:318:LEU:O	2:QE:375:VAL:HA	2.07	0.54
2:QE:404:PHE:HA	2:QE:406:HIS:CE1	2.42	0.54
3:QF:378:PHE:CE1	3:QF:419:VAL:HG22	2.43	0.54
3:QH:362:LYS:HG3	3:QH:363:MET:HG3	1.90	0.54
2:RG:178:SER:OG	2:RG:180:ALA:O	2.26	0.54
2:RI:91:GLN:HE21	2:RI:125:LEU:HD21	1.73	0.54
3:SF:172:SER:OG	3:SF:205:GLU:OE2	2.22	0.54
2:SG:256:GLN:OE1	3:SH:397:TRP:NE1	2.39	0.54
2:SG:321:GLY:HA3	2:SG:372:GLN:O	2.08	0.54
3:SH:229:VAL:HG12	3:SH:233:MET:CE	2.38	0.54
2:TG:260:VAL:O	3:TH:397:TRP:HH2	1.91	0.54
2:TI:257:THR:HG22	3:TJ:397:TRP:CD1	2.43	0.54
3:UF:137:HIS:NE2	3:UF:168:SER:HB2	2.23	0.54
3:UH:392:LYS:HD2	3:UH:392:LYS:O	2.07	0.54
2:VE:390:ARG:HA	2:VE:393:HIS:NE2	2.23	0.54
2:WG:12:ALA:HB1	25:WG:501:GTP:N2	2.22	0.54
2:WG:166:LYS:O	2:WG:199:ASP:HB2	2.07	0.54
3:WH:84:ILE:O	3:WH:86:ARG:NH1	2.40	0.54
22:XC:91:VAL:HG12	22:XC:154:VAL:HG23	1.90	0.54
22:XD:15:TYR:CD1	22:XD:164:ARG:HB2	2.32	0.54
22:XD:79:ILE:HG23	22:XD:131:GLN:HE22	1.72	0.54
22:XE:58:TYR:HB3	22:XE:157:HIS:ND1	2.23	0.54
24:YL:147:PHE:HA	24:YL:150:GLU:HG3	1.90	0.54
2:AE:2:ARG:HA	2:AE:133:GLN:NE2	2.23	0.53
2:AE:370:LYS:HE3	9:G1:87:PRO:HG2	1.89	0.53
2:AI:201:ALA:O	2:AI:268:PRO:HD2	2.07	0.53
2:BE:264:ARG:HG3	2:BE:265:ILE:H	1.72	0.53
2:BE:311:LYS:HE3	2:BE:344:VAL:HG12	1.89	0.53
3:BF:356:ILE:HG22	3:BF:359:ARG:HH22	1.73	0.53
3:BH:28:HIS:ND1	3:BH:28:HIS:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:330:ILE:HG23	5:C3:331:VAL:HG13	1.89	0.53
3:CF:70:PRO:O	3:CF:73:MET:HG2	2.08	0.53
6:D4:356:ARG:HG2	6:D4:356:ARG:HH11	1.71	0.53
3:DD:309:ARG:NH2	3:DD:426:GLN:O	2.40	0.53
2:DG:258:ASN:HB3	2:DG:352:LYS:HE2	1.90	0.53
2:FE:205:ASP:OD2	2:FE:304:LYS:NZ	2.24	0.53
2:FG:388:TRP:HD1	2:FG:425:LEU:HD11	1.72	0.53
3:FH:262:ARG:HD2	3:FH:421:GLU:CG	2.37	0.53
9:G1:516:MET:O	9:G1:520:ALA:HA	2.08	0.53
9:G2:27:ARG:HD2	2:LG:2:ARG:HH22	1.72	0.53
9:G2:474:LYS:HA	9:G2:485:TYR:CE2	2.44	0.53
3:GD:325:GLU:O	3:GD:329:GLN:HG2	2.08	0.53
2:GE:88:HIS:HA	2:HE:283:HIS:CE1	2.41	0.53
2:GE:141:PHE:HB3	2:GE:187:SER:HB2	1.91	0.53
3:GH:12:CYS:SG	25:GH:501:GTP:H5'	2.48	0.53
2:GI:180:ALA:HB1	2:GI:182:VAL:HG12	1.90	0.53
11:H3:12:PRO:HB3	11:H3:43:LEU:CD2	2.37	0.53
2:HE:429:GLU:HA	2:HE:432:TYR:CD2	2.43	0.53
2:HG:262:TYR:CE1	3:HH:393:ALA:HA	2.40	0.53
2:HI:219:ILE:HG22	2:HI:222:PRO:HD3	1.90	0.53
2:HI:320:ARG:HG2	2:HI:358:GLN:O	2.08	0.53
2:HI:390:ARG:HA	2:HI:393:HIS:CD2	2.42	0.53
3:IF:131:GLN:O	3:IF:251:ARG:NH2	2.41	0.53
3:IH:350:LYS:HE3	2:II:181:VAL:N	2.23	0.53
3:IH:384:GLN:O	3:IH:388:MET:HG2	2.08	0.53
3:JD:176:SER:O	3:JD:178:THR:N	2.41	0.53
2:JE:362:VAL:HA	2:JE:368:LEU:HD21	1.90	0.53
14:K2:176:GLN:HB3	14:K2:180:LYS:NZ	2.23	0.53
2:KI:214:ARG:NH1	2:KI:215:ARG:HG3	2.23	0.53
15:L3:200:LEU:CD1	15:L3:241:ILE:HG21	2.37	0.53
3:LF:289:LEU:O	3:LF:293:MET:HB2	2.08	0.53
2:LG:71:GLU:N	2:LG:71:GLU:OE1	2.41	0.53
2:LI:392:ASP:OD1	2:LI:393:HIS:N	2.41	0.53
2:ME:141:PHE:CZ	2:ME:170:ALA:HB3	2.43	0.53
2:ME:230:LEU:O	2:ME:233:GLN:HG3	2.08	0.53
3:ND:319:GLY:HA2	3:ND:357:PRO:HG3	1.89	0.53
2:NI:2:ARG:HG2	2:NI:242:LEU:HD23	1.89	0.53
3:OD:21:TRP:CZ2	3:OD:63:ALA:HB2	2.43	0.53
25:OF:501:GTP:O3G	25:OF:501:GTP:O3'	2.21	0.53
2:OG:173:PRO:HB2	2:OG:390:ARG:HH22	1.71	0.53
3:OH:134:GLN:N	3:OH:134:GLN:OE1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:142:GLY:HA3	2:OI:183:GLU:HG2	1.90	0.53
2:PI:36:MET:HG3	2:PI:41:THR:OG1	2.08	0.53
2:PI:224:TYR:HE2	25:PI:501:GTP:C5	2.25	0.53
20:Q1:1461:TYR:HE2	20:Q1:1477:VAL:HB	1.72	0.53
2:QE:115:VAL:HG21	2:QE:156:ARG:HG3	1.89	0.53
3:QH:349:VAL:O	3:QH:350:LYS:NZ	2.29	0.53
3:RJ:101:TRP:CE3	3:RJ:187:LEU:HD13	2.42	0.53
3:RJ:141:GLY:HA3	25:RJ:501:GTP:H5''	1.89	0.53
2:SE:329:ASN:HA	2:SE:332:ILE:HG12	1.90	0.53
3:SF:6:HIS:HD2	3:SF:134:GLN:HG2	1.73	0.53
2:SG:306:ASP:OD2	2:SG:309:HIS:ND1	2.41	0.53
3:SH:152:ILE:HA	3:SH:155:ILE:HG12	1.90	0.53
3:TF:250:LEU:HD13	3:TF:253:LEU:HD12	1.90	0.53
3:TH:374:ILE:HA	3:TH:377:LEU:HD13	1.89	0.53
3:VD:206:ALA:O	3:VD:210:ILE:HG12	2.08	0.53
2:VE:91:GLN:HG3	2:VE:121:ARG:NH2	2.22	0.53
3:VF:87:PRO:HA	3:VF:90:PHE:CD2	2.43	0.53
3:VF:412:GLU:O	3:VF:416:ASN:ND2	2.39	0.53
3:WF:282:ARG:NH2	3:WF:292:GLN:OE1	2.39	0.53
22:XC:173:SER:N	22:XC:176:GLU:OE2	2.41	0.53
23:XL:112:ARG:HD2	23:XL:154:LYS:HE3	1.90	0.53
1:A3:231:GLN:O	1:A3:234:ASN:HB2	2.08	0.53
2:AE:320:ARG:CZ	2:AE:360:PRO:HA	2.37	0.53
3:AF:4:ILE:HD11	3:AF:131:GLN:HB2	1.89	0.53
2:AG:27:GLU:OE2	2:AG:28:HIS:ND1	2.40	0.53
2:AG:102:ASN:HB3	2:AG:105:ARG:HB2	1.90	0.53
2:AI:185:TYR:O	2:AI:188:ILE:HG22	2.08	0.53
2:AI:189:LEU:HA	2:AI:192:HIS:HD1	1.73	0.53
4:B3:77:THR:O	4:B3:80:LYS:HG2	2.08	0.53
2:BI:12:ALA:O	25:BI:501:GTP:N2	2.42	0.53
2:BI:90:GLU:OE1	2:BI:90:GLU:N	2.31	0.53
3:CF:31:ASP:OD2	3:CF:33:THR:OG1	2.21	0.53
2:CG:220:GLU:OE1	2:CG:221:ARG:HG2	2.07	0.53
6:D8:121:ILE:HD11	6:D8:211:CYS:HB3	1.89	0.53
3:DD:252:LYS:HD2	2:DE:101:ASN:ND2	2.24	0.53
3:DF:234:SER:O	3:DF:238:THR:HG23	2.08	0.53
2:DG:113:GLU:N	2:DG:113:GLU:OE1	2.40	0.53
3:DH:2:ARG:HA	3:DH:129:CYS:O	2.07	0.53
3:DH:134:GLN:HA	3:DH:165:ASN:O	2.07	0.53
2:EE:254:GLU:N	2:EE:254:GLU:OE1	2.41	0.53
2:EE:352:LYS:HD3	3:EF:178:THR:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:390:ARG:HA	2:EE:393:HIS:CD2	2.43	0.53
2:EG:77:GLU:OE1	2:EG:77:GLU:N	2.41	0.53
3:FD:274:THR:O	3:FD:279:GLN:NE2	2.41	0.53
2:FE:47:ASP:HB3	2:FE:49:PHE:CE1	2.42	0.53
2:FE:395:PHE:CE1	2:FE:422:ARG:HD3	2.43	0.53
10:G5:570:ASP:OD1	10:G5:572:ASN:N	2.41	0.53
2:GE:215:ARG:NH1	2:GE:299:ALA:O	2.40	0.53
2:GG:32:PRO:O	2:GG:85:GLN:NE2	2.42	0.53
2:GG:254:GLU:N	2:GG:254:GLU:OE1	2.40	0.53
11:H3:11:THR:O	11:H3:15:HIS:HB2	2.08	0.53
11:H4:216:LYS:CG	11:H4:237:ARG:HG3	2.37	0.53
3:HD:8:GLN:HG2	3:HD:65:LEU:HA	1.91	0.53
3:HD:385:PHE:HZ	3:HD:408:PHE:HB3	1.74	0.53
2:HG:256:GLN:HE22	3:HH:397:TRP:HE1	1.54	0.53
2:HI:160:ASP:OD1	2:HI:161:TYR:N	2.41	0.53
2:IE:1:MET:N	2:IE:130:THR:OG1	2.41	0.53
2:IG:230:LEU:O	2:IG:233:GLN:HG3	2.09	0.53
2:IG:338:LYS:NZ	2:IG:339:ARG:H	2.07	0.53
3:IH:41:ASP:OD1	3:IH:42:LEU:N	2.41	0.53
2:II:127:ASP:OD1	2:II:128:LEU:N	2.41	0.53
3:JD:166:THR:OG1	3:JD:198:GLU:O	2.26	0.53
2:JE:292:THR:HA	2:JE:295:CYS:SG	2.48	0.53
3:JF:197:ASP:OD1	3:JF:198:GLU:N	2.40	0.53
3:KD:11:GLN:OE1	3:KD:15:GLN:NE2	2.42	0.53
15:L3:174:ASN:O	15:L3:177:GLN:HG3	2.09	0.53
3:LH:148:GLY:O	3:LH:152:ILE:HG12	2.08	0.53
2:MG:118:VAL:O	2:MG:122:ILE:HG12	2.08	0.53
2:MG:431:ASP:O	18:O2:46:ARG:NH2	2.41	0.53
3:MH:387:ALA:O	3:MH:391:ARG:NH1	2.41	0.53
3:ND:84:ILE:O	3:ND:86:ARG:NH1	2.41	0.53
2:NE:286:LEU:HD11	2:NE:373:ARG:H	1.73	0.53
2:NE:338:LYS:HZ2	2:NE:340:THR:H	1.55	0.53
3:NF:47:ILE:HG12	3:NF:59:TYR:CD2	2.43	0.53
3:NF:58:LYS:HE2	3:OF:281:TYR:HE1	1.73	0.53
3:NF:423:GLN:HA	3:NF:426:GLN:HE21	1.72	0.53
3:NH:31:ASP:N	3:NH:31:ASP:OD1	2.41	0.53
3:OD:322:SER:N	3:OD:325:GLU:OE2	2.40	0.53
3:OF:334:GLN:O	3:OF:338:SER:OG	2.10	0.53
2:OG:1:MET:O	2:OG:133:GLN:NE2	2.41	0.53
3:OH:269:GLY:N	3:OH:367:PHE:O	2.41	0.53
2:OI:320:ARG:CZ	2:OI:360:PRO:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:360:HIS:CE1	19:P1:363:SER:H	2.26	0.53
3:PH:324:LYS:HE2	2:PI:222:PRO:CD	2.38	0.53
2:PI:54:SER:H	2:PI:62:VAL:H	1.56	0.53
2:PI:166:LYS:O	2:PI:199:ASP:HB2	2.08	0.53
20:Q1:1494:LEU:O	20:Q1:1498:ASP:HB3	2.08	0.53
3:QH:263:LEU:HD12	3:QH:370:ASN:HD21	1.71	0.53
2:QI:229:ARG:HE	2:QI:363:VAL:HG11	1.72	0.53
2:RE:70:LEU:HB3	2:RE:97:GLU:O	2.09	0.53
2:RE:89:PRO:HD2	2:SE:280:LYS:HZ3	1.73	0.53
2:RG:239:THR:OG1	2:RG:243:ARG:NH1	2.41	0.53
3:RJ:111:GLU:HG2	3:RJ:112:LEU:HD12	1.91	0.53
3:SH:141:GLY:HA3	25:SH:501:GTP:H5''	1.89	0.53
2:SI:408:TYR:HA	2:SI:411:GLU:HG3	1.89	0.53
3:TF:143:THR:O	3:TF:147:MET:HG2	2.09	0.53
3:UD:187:LEU:O	3:UD:191:GLN:NE2	2.42	0.53
2:UE:19:ALA:O	2:UE:23:LEU:HG	2.08	0.53
2:UE:239:THR:OG1	2:UE:243:ARG:NH1	2.41	0.53
3:UF:135:LEU:HG	3:UF:137:HIS:ND1	2.23	0.53
3:UF:176:SER:O	3:UF:178:THR:N	2.41	0.53
2:UG:180:ALA:HB3	2:UG:183:GLU:HG3	1.90	0.53
3:UH:396:HIS:O	3:UH:399:THR:OG1	2.25	0.53
3:VD:176:SER:O	3:VD:178:THR:N	2.41	0.53
3:VH:2:ARG:HB3	3:VH:131:GLN:CD	2.28	0.53
2:WG:74:VAL:HA	2:WG:77:GLU:HG3	1.90	0.53
3:WH:21:TRP:CZ2	3:WH:63:ALA:HB2	2.43	0.53
2:WI:26:LEU:HG	2:WI:363:VAL:HG23	1.90	0.53
2:WI:205:ASP:OD2	2:WI:304:LYS:NZ	2.41	0.53
2:WI:392:ASP:HB3	2:WI:425:LEU:HD11	1.90	0.53
22:XC:30:ARG:HB3	22:XC:56:THR:HB	1.89	0.53
24:YK:105:SER:HB2	24:YK:108:ASN:HB2	1.89	0.53
2:AE:282:TYR:OH	9:G1:85:PHE:O	2.20	0.53
2:AG:117:LEU:O	2:AG:121:ARG:HG2	2.08	0.53
2:AI:82:THR:HA	2:AI:84:ARG:HH11	1.73	0.53
2:AI:306:ASP:HB2	17:N3:82:HIS:CE1	2.44	0.53
4:B8:304:LEU:HD21	4:B8:356:LEU:HD11	1.90	0.53
2:BG:47:ASP:OD1	2:BG:48:SER:N	2.34	0.53
2:BG:388:TRP:CD1	2:BG:425:LEU:HD11	2.43	0.53
3:BH:318:ARG:HG2	3:BH:357:PRO:HA	1.90	0.53
3:BH:375:GLN:HA	3:BH:378:PHE:CE1	2.44	0.53
2:CG:260:VAL:HG23	2:CG:265:ILE:O	2.09	0.53
2:CI:12:ALA:HB1	25:CI:501:GTP:N2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:296:PHE:HE2	2:CI:335:ILE:HG21	1.73	0.53
6:D7:346:LYS:O	6:D7:349:PRO:HD2	2.07	0.53
6:D8:149:TYR:HB2	6:D8:183:ILE:HG21	1.90	0.53
2:DE:117:LEU:O	2:DE:121:ARG:HG2	2.08	0.53
3:EH:174:LYS:HG3	3:EH:175:VAL:HG12	1.89	0.53
8:F2:356:LYS:O	8:F2:359:THR:OG1	2.25	0.53
3:FD:219:THR:OG1	9:G1:458:ASN:OD1	2.26	0.53
3:FD:309:ARG:H	3:FD:372:THR:HG1	1.57	0.53
10:G5:62:LYS:HG2	10:G5:66:THR:HG21	1.89	0.53
3:GD:261:PRO:O	3:GD:264:HIS:NE2	2.40	0.53
2:GE:172:TYR:N	2:GE:204:VAL:O	2.36	0.53
2:GG:308:ARG:HA	2:GG:342:GLN:HE22	1.74	0.53
3:GH:19:LYS:O	3:GH:22:GLU:HG3	2.08	0.53
3:HD:249:ASP:HB3	3:HD:252:LYS:HB2	1.90	0.53
2:HE:207:GLU:HB2	2:HE:304:LYS:HZ1	1.71	0.53
3:HF:278:SER:HA	3:HF:281:TYR:HB2	1.91	0.53
3:HF:334:GLN:O	3:HF:338:SER:OG	2.15	0.53
2:HG:224:TYR:HA	2:HG:227:LEU:HD13	1.90	0.53
3:JF:231:ALA:HB1	3:JF:270:PHE:CZ	2.44	0.53
14:K2:382:LEU:O	2:LE:339:ARG:NH2	2.40	0.53
3:KD:39:ASP:OD1	3:KD:43:GLN:NE2	2.41	0.53
3:KD:217:LEU:HD22	3:KD:220:PRO:HA	1.90	0.53
2:KE:330:ALA:O	2:KE:334:THR:HG23	2.09	0.53
2:KE:337:THR:O	2:KE:339:ARG:NH1	2.41	0.53
3:KF:140:GLY:HA2	3:KF:181:GLU:OE2	2.08	0.53
2:KG:228:ASN:HA	2:KG:231:ILE:HG12	1.89	0.53
3:KH:217:LEU:HD11	3:KH:220:PRO:HB3	1.89	0.53
15:L2:222:PRO:C	15:L2:226:ARG:HE	2.10	0.53
15:L3:31:PHE:HA	15:L3:35:ILE:HB	1.90	0.53
3:LD:398:TYR:HB3	3:LD:403:MET:HB3	1.90	0.53
3:LD:407:GLU:HA	3:LD:410:GLU:HG2	1.90	0.53
3:LH:118:ASP:OD1	3:LH:121:ARG:NH1	2.42	0.53
2:LI:25:CYS:HB2	2:LI:30:ILE:HB	1.89	0.53
2:LI:118:VAL:HG21	2:LI:153:LEU:HD11	1.91	0.53
2:MG:187:SER:O	2:MG:190:THR:OG1	2.20	0.53
3:MH:174:LYS:HZ3	3:MH:205:GLU:HG2	1.72	0.53
3:MH:226:ASN:HA	3:MH:229:VAL:HG22	1.89	0.53
3:ND:111:GLU:N	3:ND:111:GLU:OE1	2.42	0.53
2:NE:154:MET:HA	2:NE:157:LEU:HG	1.89	0.53
3:NF:3:GLU:HG2	3:NF:130:LEU:HD23	1.89	0.53
3:OD:239:CYS:HA	3:OD:246:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:326:LYS:HA	2:OE:329:ASN:HD21	1.72	0.53
3:OF:11:GLN:HG3	25:OF:501:GTP:PA	2.48	0.53
3:OH:144:GLY:N	25:OH:501:GTP:O2B	2.40	0.53
19:P1:460:HIS:HE2	19:P1:488:TRP:HZ2	1.55	0.53
2:PG:53:PHE:O	2:PG:64:ARG:NH1	2.42	0.53
2:PG:213:CYS:O	2:PG:218:ASP:N	2.41	0.53
3:PH:48:ASN:O	3:PH:62:ARG:NH2	2.38	0.53
2:PI:68:VAL:HG12	2:PI:93:ILE:HB	1.90	0.53
3:QH:8:GLN:HB3	3:QH:65:LEU:HA	1.90	0.53
3:QH:163:ILE:HD13	3:QH:250:LEU:HB2	1.90	0.53
3:RF:254:ALA:O	3:RF:258:VAL:HG12	2.08	0.53
3:RF:324:LYS:HE2	2:RG:221:ARG:CZ	2.38	0.53
3:RH:233:MET:HA	3:RH:236:VAL:HG12	1.90	0.53
3:RJ:8:GLN:NE2	3:RJ:17:GLY:HA3	2.23	0.53
3:RJ:111:GLU:OE1	3:RJ:111:GLU:N	2.41	0.53
3:TH:40:SER:HB3	3:TH:42:LEU:HD23	1.89	0.53
3:UD:86:ARG:NE	3:UD:86:ARG:HA	2.24	0.53
2:UE:256:GLN:O	2:UE:260:VAL:HG12	2.08	0.53
3:UF:350:LYS:HE3	2:UG:181:VAL:H	1.73	0.53
2:UG:3:GLU:H	2:UG:133:GLN:HE22	1.55	0.53
2:UG:273:ALA:HB2	2:UG:295:CYS:HB3	1.89	0.53
2:VG:346:TRP:NE1	2:VG:438:ASP:O	2.42	0.53
3:VH:41:ASP:N	3:VH:41:ASP:OD1	2.41	0.53
3:WF:139:LEU:HD21	3:WF:170:VAL:HG13	1.89	0.53
3:WF:337:ASN:HD22	3:WF:340:TYR:HB2	1.72	0.53
2:WG:70:LEU:HD11	2:WG:110:ILE:HG21	1.89	0.53
2:WG:235:VAL:O	2:WG:238:ILE:HG12	2.08	0.53
22:XD:134:PHE:HB3	22:XD:139:PHE:HE2	1.73	0.53
22:XE:92:GLN:OE1	22:XE:152:LEU:HB2	2.08	0.53
23:XJ:96:PHE:CE1	23:XJ:111:ALA:HA	2.43	0.53
24:YJ:41:ARG:NH2	24:YJ:44:SER:OG	2.41	0.53
24:YM:64:ARG:HA	24:YM:67:ILE:HG12	1.91	0.53
1:A2:179:PHE:HA	1:A2:182:ILE:HD12	1.89	0.53
2:AE:326:LYS:HA	2:AE:329:ASN:HD21	1.74	0.53
3:AF:245:GLN:OE1	3:AF:245:GLN:N	2.39	0.53
4:B7:139:LYS:HE3	4:B7:257:GLN:HE22	1.74	0.53
2:BE:169:PHE:HE1	2:BE:202:PHE:HD2	1.56	0.53
2:BG:143:GLY:HA2	25:BG:501:GTP:O5'	2.08	0.53
3:BH:267:MET:HB3	3:BH:299:MET:HE1	1.90	0.53
5:C2:260:ASP:OD1	5:C2:261:LYS:N	2.42	0.53
5:C3:231:GLU:OE2	5:C3:235:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:19:LYS:O	3:CF:22:GLU:HG3	2.08	0.53
3:CF:261:PRO:O	3:CF:264:HIS:NE2	2.40	0.53
3:CH:36:TYR:O	11:H4:251:GLN:NE2	2.30	0.53
2:CI:27:GLU:OE1	2:CI:27:GLU:N	2.35	0.53
6:D3:403:ARG:HA	6:D3:406:GLU:OE1	2.09	0.53
3:DH:211:CYS:HA	3:DH:215:LEU:HB2	1.89	0.53
3:ED:172:SER:HB3	3:ED:175:VAL:O	2.08	0.53
2:EE:160:ASP:OD1	2:EE:161:TYR:N	2.41	0.53
2:EG:47:ASP:O	2:EG:50:ASN:N	2.29	0.53
8:F2:208:HIS:ND1	8:F2:212:GLU:OE1	2.41	0.53
2:FE:254:GLU:N	2:FE:254:GLU:OE1	2.42	0.53
2:FG:388:TRP:CD1	2:FG:425:LEU:HD11	2.43	0.53
2:FG:396:ASP:OD1	2:FG:397:LEU:N	2.41	0.53
3:GD:2:ARG:HE	3:GD:129:CYS:CB	2.21	0.53
2:GE:30:ILE:HA	2:GE:36:MET:HE1	1.91	0.53
3:GF:4:ILE:HD11	3:GF:131:GLN:HB2	1.90	0.53
2:GG:74:VAL:O	2:GG:77:GLU:HG3	2.08	0.53
3:GH:350:LYS:HE3	2:GI:181:VAL:H	1.72	0.53
2:GI:90:GLU:N	2:GI:90:GLU:OE1	2.39	0.53
3:HD:114:ASP:OD1	3:HD:115:SER:N	2.41	0.53
3:HD:273:LEU:N	3:HD:292:GLN:HE22	2.05	0.53
2:HE:228:ASN:HA	2:HE:231:ILE:HG12	1.89	0.53
2:HE:388:TRP:HD1	2:HE:425:LEU:HD11	1.73	0.53
2:HI:338:LYS:NZ	2:HI:339:ARG:H	2.06	0.53
2:II:178:SER:OG	2:II:180:ALA:O	2.26	0.53
3:JD:196:THR:OG1	3:JD:198:GLU:O	2.26	0.53
3:JD:234:SER:O	3:JD:238:THR:HG23	2.09	0.53
3:JF:310:TYR:HD1	3:JF:371:SER:HB2	1.74	0.53
3:KF:50:TYR:O	3:KF:62:ARG:NE	2.41	0.53
15:L3:200:LEU:HD11	15:L3:241:ILE:HG21	1.89	0.53
2:LI:327:ASP:OD1	2:LI:328:VAL:N	2.42	0.53
2:MI:265:ILE:HD12	2:MI:432:TYR:CE1	2.43	0.53
2:NE:1:MET:N	2:NE:130:THR:OG1	2.40	0.53
3:NF:172:SER:OG	3:NF:205:GLU:OE2	2.19	0.53
3:NF:286:VAL:HA	3:NF:289:LEU:HB2	1.90	0.53
2:NI:113:GLU:OE1	2:NI:113:GLU:N	2.39	0.53
3:OF:47:ILE:HG12	3:OF:59:TYR:CG	2.44	0.53
2:OI:60:LYS:NZ	2:OI:85:GLN:O	2.38	0.53
2:OI:70:LEU:HB3	2:OI:97:GLU:O	2.08	0.53
2:OI:216:ASN:ND2	2:OI:275:VAL:O	2.41	0.53
2:PG:21:TRP:HA	2:PG:24:TYR:HD2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:84:ARG:NH2	24:YJ:124:HIS:O	2.41	0.53
2:QG:171:ILE:HD12	2:QG:204:VAL:HG13	1.90	0.53
2:QG:319:TYR:HB3	2:QG:323:VAL:HG11	1.90	0.53
2:RG:246:GLY:HA2	2:RG:357:TYR:CD2	2.44	0.53
2:RG:256:GLN:O	2:RG:260:VAL:HG12	2.08	0.53
3:RH:74:ASP:O	3:RH:77:ARG:HG3	2.09	0.53
2:RI:351:PHE:HE1	3:RJ:175:VAL:HG21	1.74	0.53
3:SF:199:THR:HB	3:SF:264:HIS:O	2.09	0.53
3:SF:302:ALA:HB1	3:SF:377:LEU:HD11	1.91	0.53
2:SG:315:CYS:O	2:SG:351:PHE:HA	2.07	0.53
3:SH:191:GLN:HE21	3:SH:195:ASN:ND2	2.06	0.53
3:SH:306:ARG:NE	3:SH:306:ARG:O	2.42	0.53
2:TG:258:ASN:HB3	2:TG:352:LYS:NZ	2.23	0.53
3:TJ:197:ASP:OD1	3:TJ:198:GLU:N	2.41	0.53
3:UF:4:ILE:HB	3:UF:50:TYR:HE1	1.73	0.53
3:UF:288:GLU:O	3:UF:291:GLN:NE2	2.37	0.53
2:UG:216:ASN:ND2	2:UG:275:VAL:O	2.42	0.53
3:VD:313:VAL:HB	3:VD:367:PHE:HE1	1.73	0.53
3:VD:406:MET:O	3:VD:409:THR:OG1	2.13	0.53
2:VE:117:LEU:O	2:VE:121:ARG:HG2	2.09	0.53
2:WE:182:VAL:HA	2:WE:185:TYR:HD2	1.71	0.53
3:WF:217:LEU:HD11	3:WF:220:PRO:HB3	1.90	0.53
2:WG:397:LEU:O	2:WG:401:LYS:HG2	2.07	0.53
24:YI:114:ARG:HD2	24:YI:122:VAL:HG11	1.91	0.53
24:YK:5:LYS:O	24:YK:9:ARG:HG2	2.08	0.53
24:YK:64:ARG:HA	24:YK:67:ILE:HG12	1.90	0.53
24:YN:137:VAL:HG13	24:YN:138:VAL:HG13	1.90	0.53
2:AI:234:ILE:O	2:AI:237:SER:OG	2.21	0.53
4:B3:123:ARG:NH1	4:B3:383:THR:HA	2.23	0.53
4:B8:118:THR:O	6:D7:409:ARG:NH1	2.36	0.53
3:CF:350:LYS:HE3	2:CG:180:ALA:HA	1.91	0.53
2:CG:258:ASN:HD22	3:CH:179:VAL:HG22	1.74	0.53
3:CH:275:SER:O	3:CH:279:GLN:NE2	2.40	0.53
6:D8:163:GLN:HG3	6:D8:165:PRO:HD2	1.90	0.53
6:D8:335:GLN:HE22	6:D9:78:ARG:HB2	1.74	0.53
3:DH:207:LEU:HD22	3:DH:228:LEU:HD12	1.90	0.53
3:ED:15:GLN:NE2	25:ED:501:GTP:N1	2.55	0.53
2:EE:408:TYR:HB3	2:EE:413:MET:HB3	1.90	0.53
8:F6:174:LYS:HE2	8:F6:236:ILE:HG23	1.90	0.53
2:FE:54:SER:OG	2:FE:64:ARG:NE	2.42	0.53
2:FE:172:TYR:CD1	2:FE:173:PRO:HD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:61:PRO:HG2	3:FF:85:PHE:HD1	1.74	0.53
3:FF:346:PRO:HD2	2:FG:398:MET:CE	2.38	0.53
3:FF:378:PHE:CE1	3:FF:419:VAL:HG22	2.44	0.53
3:FF:405:GLU:HA	3:FF:408:PHE:HD1	1.74	0.53
9:G1:527:ALA:O	9:G1:531:ILE:HG12	2.09	0.53
9:G2:170:ARG:O	9:G2:202:ASN:ND2	2.42	0.53
10:G5:87:ASP:OD1	10:G5:98:ARG:HB3	2.08	0.53
10:G5:293:TYR:CD2	10:G5:298:ILE:HG12	2.43	0.53
2:GE:105:ARG:HG2	2:GE:109:THR:HG21	1.90	0.53
2:GG:15:GLN:HG2	25:GG:501:GTP:N1	2.22	0.53
2:GG:101:ASN:CB	2:GG:182:VAL:HG11	2.38	0.53
11:H4:253:VAL:HA	11:H4:256:HIS:CD2	2.43	0.53
3:HH:11:GLN:O	3:HH:15:GLN:HG2	2.08	0.53
3:HH:268:PRO:HD2	3:HH:301:ALA:HB2	1.90	0.53
2:IE:88:HIS:HA	3:JD:281:TYR:CZ	2.43	0.53
2:IE:229:ARG:HH21	2:IE:368:LEU:HD22	1.73	0.53
2:IG:115:VAL:HG21	2:IG:156:ARG:HG3	1.90	0.53
2:IG:235:VAL:HA	2:IG:238:ILE:HG12	1.89	0.53
2:IG:263:PRO:HB2	2:IG:264:ARG:HD3	1.91	0.53
2:IG:415:GLU:OE1	2:IG:419:SER:OG	2.26	0.53
3:IH:40:SER:O	3:IH:43:GLN:HG2	2.09	0.53
3:IH:138:SER:HB2	3:IH:169:VAL:HG12	1.91	0.53
3:IH:378:PHE:CE1	3:IH:419:VAL:HG22	2.44	0.53
13:J2:177:ASN:HA	13:J2:180:GLU:CB	2.39	0.53
13:J3:38:ASP:OD2	13:J3:41:THR:OG1	2.23	0.53
2:JE:287:SER:OG	2:JE:290:GLU:OE1	2.18	0.53
3:JH:155:ILE:HA	3:JH:158:GLU:HB2	1.90	0.53
3:JH:174:LYS:HG2	3:JH:205:GLU:OE2	2.08	0.53
14:K4:111:LEU:HB3	14:K4:114:HIS:HB2	1.91	0.53
14:K4:128:ALA:HA	14:K4:131:ARG:HE	1.73	0.53
3:KD:309:ARG:HB2	3:KD:426:GLN:HE21	1.73	0.53
2:KE:227:LEU:O	2:KE:230:LEU:HG	2.08	0.53
2:KG:260:VAL:HG23	2:KG:265:ILE:O	2.08	0.53
2:KI:115:VAL:HA	2:KI:118:VAL:HG22	1.91	0.53
15:L3:172:TYR:O	15:L3:176:ILE:HG12	2.08	0.53
2:LE:90:GLU:OE1	2:LE:90:GLU:N	2.41	0.53
2:ME:186:ASN:OD1	2:ME:187:SER:N	2.42	0.53
3:MF:42:LEU:HD12	3:MF:243:PRO:HD2	1.90	0.53
2:MG:12:ALA:HB2	25:MG:501:GTP:H5''	1.89	0.53
2:MG:433:GLU:OE1	18:O2:61:TRP:NE1	2.41	0.53
3:MH:101:TRP:HB2	3:MH:184:ASN:ND2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:N2:80:ASN:O	17:N2:83:THR:N	2.42	0.53
3:NF:12:CYS:SG	3:NF:13:GLY:N	2.82	0.53
3:NF:81:PHE:O	3:NF:84:ILE:HG22	2.08	0.53
2:NI:5:ILE:O	2:NI:135:PHE:HA	2.09	0.53
2:OE:362:VAL:HA	2:OE:368:LEU:HD11	1.89	0.53
2:OI:392:ASP:HB3	2:OI:425:LEU:HD23	1.90	0.53
19:P2:261:MET:HE2	20:Q2:1501:LEU:HD21	1.91	0.53
19:P2:354:LYS:HZ3	19:P2:374:ASN:HA	1.73	0.53
19:P2:390:ILE:HG13	19:P2:425:THR:HG21	1.89	0.53
2:PE:351:PHE:HZ	3:PF:175:VAL:HG23	1.73	0.53
3:PH:198:GLU:HA	3:PH:266:PHE:HE2	1.72	0.53
3:PH:385:PHE:CE1	3:PH:412:GLU:HG3	2.44	0.53
2:PI:2:ARG:NH1	2:PI:241:SER:O	2.42	0.53
2:PI:264:ARG:O	2:PI:266:HIS:ND1	2.39	0.53
2:PI:287:SER:OG	2:PI:290:GLU:OE1	2.26	0.53
2:PI:415:GLU:OE2	2:PI:419:SER:OG	2.26	0.53
2:QE:210:TYR:CE1	2:QE:227:LEU:HD11	2.41	0.53
3:QF:282:ARG:HE	3:QF:283:ALA:N	2.07	0.53
2:QI:167:LEU:HD13	2:QI:200:CYS:HB2	1.90	0.53
2:QI:280:LYS:O	2:QI:284:GLU:HB2	2.08	0.53
3:RF:24:ILE:O	3:RF:28:HIS:ND1	2.27	0.53
3:RH:134:GLN:HA	3:RH:165:ASN:O	2.08	0.53
3:RH:152:ILE:HB	3:RH:156:ARG:NH2	2.24	0.53
2:RI:145:THR:HG23	25:RI:501:GTP:O3B	2.08	0.53
2:SE:69:ASP:OD1	2:SE:70:LEU:N	2.41	0.53
2:SG:231:ILE:O	2:SG:235:VAL:HG23	2.09	0.53
3:SH:52:ASN:OD1	3:SH:62:ARG:NH1	2.42	0.53
3:SJ:295:ASP:HB2	3:SJ:298:ASN:HB2	1.90	0.53
2:TG:85:GLN:OE1	2:TG:85:GLN:N	2.29	0.53
2:TI:173:PRO:HB2	2:TI:390:ARG:HH22	1.74	0.53
2:TI:316:CYS:O	2:TI:377:MET:HA	2.08	0.53
3:UD:245:GLN:HE22	2:UE:15:GLN:NE2	2.06	0.53
3:UD:324:LYS:HE3	2:UE:210:TYR:CE1	2.44	0.53
3:UD:378:PHE:HA	3:UD:381:ILE:HG22	1.90	0.53
3:UD:415:MET:O	3:UD:419:VAL:HG23	2.09	0.53
2:UE:160:ASP:OD1	2:UE:161:TYR:N	2.42	0.53
3:UF:137:HIS:CE1	3:UF:166:THR:HB	2.43	0.53
3:UH:117:LEU:HA	3:UH:120:VAL:HG12	1.89	0.53
3:VD:374:ILE:HD12	3:VD:374:ILE:H	1.74	0.53
2:VE:136:LEU:HB3	2:VE:138:PHE:CE1	2.43	0.53
2:VG:256:GLN:OE1	3:VH:397:TRP:NE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:259:LEU:HD11	2:VG:316:CYS:HB2	1.91	0.53
3:VH:20:PHE:CZ	3:VH:24:ILE:HD11	2.44	0.53
2:WE:270:ALA:HA	2:WE:378:LEU:HD23	1.89	0.53
3:WH:375:GLN:OE1	3:WH:375:GLN:N	2.41	0.53
22:XC:90:GLU:HG3	22:XC:104:ARG:CD	2.38	0.53
24:YJ:32:CYS:HA	24:YJ:56:TYR:CE1	2.43	0.53
24:YJ:45:SER:HB3	24:YJ:48:GLN:OE1	2.08	0.53
1:A2:79:ASP:O	1:A2:82:GLU:HG2	2.08	0.53
3:AF:325:GLU:O	3:AF:329:GLN:HG2	2.09	0.53
2:AI:356:ASN:OD1	2:AI:357:TYR:N	2.42	0.53
4:B3:413:ARG:NH1	6:D3:403:ARG:HB2	2.24	0.53
4:B8:304:LEU:HD23	4:B8:352:MET:HE1	1.90	0.53
2:BE:121:ARG:CZ	2:BE:124:LYS:HE2	2.39	0.53
3:BF:81:PHE:O	3:BF:84:ILE:HG22	2.09	0.53
3:BF:198:GLU:HG2	3:BF:266:PHE:CE2	2.44	0.53
3:BH:211:CYS:HA	3:BH:215:LEU:HB2	1.91	0.53
3:BH:216:LYS:HB3	3:BH:276:ARG:NH2	2.24	0.53
2:BI:360:PRO:HB2	2:BI:371:VAL:HG11	1.90	0.53
5:C8:172:ASN:O	5:C8:175:THR:OG1	2.22	0.53
3:CH:46:ARG:H	3:CH:241:ARG:NH2	2.07	0.53
3:CJ:77:ARG:HG3	9:G2:288:PHE:CE2	2.44	0.53
3:CJ:152:ILE:HA	3:CJ:155:ILE:HG12	1.91	0.53
6:D7:351:ARG:HE	6:D8:238:VAL:HG13	1.73	0.53
6:D7:357:LEU:HD13	6:D8:243:HIS:CE1	2.42	0.53
3:DD:73:MET:HA	3:DD:76:VAL:HG22	1.90	0.53
3:DD:357:PRO:O	3:DD:359:ARG:NH1	2.40	0.53
2:DG:102:ASN:HB3	2:DG:105:ARG:HB2	1.91	0.53
7:E3:76:TRP:HA	7:E3:79:LEU:HD23	1.91	0.53
2:EE:36:MET:N	2:EE:36:MET:SD	2.82	0.53
3:EH:1:MET:HG3	3:EH:2:ARG:N	2.23	0.53
3:EH:31:ASP:OD1	3:EH:35:THR:N	2.42	0.53
3:EH:278:SER:HA	3:EH:281:TYR:HB2	1.90	0.53
3:FD:374:ILE:HG22	3:FD:378:PHE:CD2	2.44	0.53
2:GG:25:CYS:HB2	2:GG:30:ILE:HB	1.91	0.53
25:GH:502:GTP:O2B	2:GI:144:GLY:N	2.41	0.53
2:HG:2:ARG:NH2	2:HG:241:SER:O	2.42	0.53
2:HG:46:ASP:HA	2:HG:50:ASN:HD22	1.74	0.53
2:HI:166:LYS:N	2:HI:199:ASP:OD2	2.42	0.53
2:IG:126:ALA:HA	2:IG:129:CYS:SG	2.48	0.53
3:IH:114:ASP:OD1	3:IH:115:SER:N	2.42	0.53
2:II:427:ALA:HA	2:II:430:LYS:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:116:ASP:OD1	2:JE:117:LEU:N	2.40	0.53
14:K3:473:CYS:H	14:K3:476:GLN:NE2	2.07	0.53
14:K4:131:ARG:O	14:K4:134:ARG:HG2	2.08	0.53
3:KD:239:CYS:HB3	3:KD:248:ALA:HA	1.90	0.53
3:KF:278:SER:HA	3:KF:281:TYR:HB2	1.89	0.53
2:KG:85:GLN:OE1	2:KG:85:GLN:N	2.30	0.53
2:KG:88:HIS:HB3	2:KG:91:GLN:HB2	1.91	0.53
2:KG:243:ARG:HD2	2:KG:244:PHE:CD1	2.44	0.53
2:KG:419:SER:HA	2:KG:422:ARG:HE	1.72	0.53
3:LD:214:THR:HG23	3:LD:215:LEU:HD12	1.90	0.53
3:LF:299:MET:CE	3:LF:302:ALA:H	2.22	0.53
2:LG:229:ARG:NH1	2:LG:233:GLN:HB2	2.23	0.53
2:MG:224:TYR:HE2	25:MG:501:GTP:O6	1.90	0.53
3:MH:111:GLU:HG2	3:MH:112:LEU:HD12	1.90	0.53
3:MH:213:ARG:HH12	3:MH:297:LYS:HB3	1.72	0.53
17:N3:99:ILE:HG13	17:N3:100:GLU:N	2.21	0.53
2:NE:21:TRP:HE1	2:NE:65:ALA:HB3	1.73	0.53
2:NE:325:PRO:O	2:NE:329:ASN:ND2	2.41	0.53
3:NH:324:LYS:HD2	2:NI:221:ARG:HA	1.90	0.53
3:OD:111:GLU:N	3:OD:111:GLU:OE1	2.40	0.53
3:OF:263:LEU:HB3	3:OF:370:ASN:HD21	1.74	0.53
2:OG:252:LEU:HD12	2:OG:253:THR:N	2.24	0.53
2:OG:392:ASP:HB2	2:OG:422:ARG:HH12	1.73	0.53
19:P1:586:HIS:ND1	19:P1:606:SER:HB3	2.24	0.53
2:PE:417:GLU:OE1	2:PE:417:GLU:N	2.28	0.53
3:PF:191:GLN:O	3:PF:195:ASN:ND2	2.42	0.53
3:PF:271:ALA:HB2	3:PF:365:ALA:HB3	1.91	0.53
3:PH:172:SER:HB3	3:PH:175:VAL:O	2.08	0.53
2:PI:1:MET:O	2:PI:131:GLY:HA3	2.09	0.53
20:Q2:1376:ARG:O	20:Q2:1376:ARG:NH1	2.41	0.53
20:Q2:1424:ASP:OD1	20:Q2:1509:ASP:HB3	2.09	0.53
3:QF:41:ASP:HA	3:QF:44:LEU:HB3	1.91	0.53
3:QF:372:THR:HG21	3:QF:426:GLN:HB3	1.90	0.53
3:QH:138:SER:HB2	3:QH:169:VAL:HG12	1.90	0.53
2:QI:11:GLN:HG2	25:QI:501:GTP:O1B	2.08	0.53
2:QI:229:ARG:NH1	2:QI:233:GLN:HB2	2.23	0.53
2:RE:280:LYS:NZ	2:RE:284:GLU:OE2	2.39	0.53
2:RG:1:MET:O	2:RG:131:GLY:HA3	2.08	0.53
3:RH:69:GLU:OE1	3:RH:72:THR:N	2.34	0.53
3:RH:169:VAL:HA	3:RH:202:ILE:HB	1.89	0.53
3:RJ:372:THR:HA	3:RJ:375:GLN:HE22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:33:ASP:OD1	2:SG:34:GLY:N	2.41	0.53
2:SI:5:ILE:HB	2:SI:135:PHE:HD1	1.71	0.53
3:SJ:313:VAL:HB	3:SJ:367:PHE:HE1	1.73	0.53
2:TG:279:GLU:HA	2:TG:282:TYR:HB3	1.90	0.53
3:TH:11:GLN:HE21	25:TH:501:GTP:H3'	1.73	0.53
3:TJ:380:ARG:O	3:TJ:384:GLN:HG2	2.09	0.53
3:UF:204:ASN:HA	3:UF:207:LEU:HD12	1.89	0.53
3:UF:270:PHE:HD2	3:UF:273:LEU:HD21	1.74	0.53
2:VE:220:GLU:O	2:VE:221:ARG:NE	2.41	0.53
3:VF:35:THR:HG22	3:VF:58:LYS:HE3	1.91	0.53
3:WH:2:ARG:HB3	3:WH:131:GLN:NE2	2.24	0.53
22:XD:177:LEU:HD13	22:XD:181:PHE:HB3	1.91	0.53
24:YJ:11:ILE:HD12	24:YJ:72:ILE:HD11	1.89	0.53
24:YJ:88:SER:HB3	24:YJ:165:HIS:HB3	1.90	0.53
24:YL:57:CYS:O	24:YL:63:ARG:NH1	2.42	0.53
24:YN:161:LYS:HG3	24:YN:162:VAL:HG23	1.90	0.53
1:A2:128:VAL:HB	1:A3:11:PHE:CE2	2.43	0.53
3:AF:380:ARG:O	3:AF:384:GLN:HG2	2.08	0.53
2:AI:385:ALA:HA	2:AI:388:TRP:HD1	1.73	0.53
4:B8:325:SER:HB3	4:B8:328:GLU:OE2	2.08	0.53
3:BF:233:MET:HA	3:BF:236:VAL:HG12	1.90	0.53
3:BH:246:LEU:HD12	3:BH:352:ALA:HB1	1.90	0.53
3:BH:415:MET:O	3:BH:419:VAL:HG23	2.08	0.53
2:CG:15:GLN:OE1	25:CG:501:GTP:N1	2.40	0.53
3:CH:14:ASN:ND2	3:CH:67:ASP:OD2	2.42	0.53
2:CI:126:ALA:HA	2:CI:129:CYS:SG	2.48	0.53
3:CJ:209:ASP:O	3:CJ:213:ARG:HG2	2.09	0.53
6:D3:78:ARG:NH1	6:D4:331:ASP:OD2	2.41	0.53
6:D4:315:LEU:HD12	6:D4:423:LEU:HD12	1.90	0.53
6:D8:154:ASP:OD1	6:D8:433:HIS:NE2	2.42	0.53
6:D9:59:ASN:O	6:D9:63:ARG:NH1	2.42	0.53
2:DE:116:ASP:OD1	2:DE:117:LEU:N	2.42	0.53
3:DF:12:CYS:HA	25:DF:501:GTP:N2	2.23	0.53
3:ED:182:PRO:HA	3:ED:381:ILE:HD11	1.89	0.53
2:EE:67:PHE:HB2	2:EE:92:LEU:HD13	1.89	0.53
2:EE:329:ASN:HA	2:EE:332:ILE:HG12	1.90	0.53
3:EF:130:LEU:HB2	3:EF:162:ARG:NH1	2.23	0.53
3:EF:217:LEU:HD11	3:EF:220:PRO:HB3	1.91	0.53
3:FD:21:TRP:CZ2	3:FD:63:ALA:HB2	2.43	0.53
2:FE:346:TRP:CZ2	3:FF:391:ARG:HD2	2.44	0.53
3:FF:415:MET:O	3:FF:419:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:7:LEU:HD13	3:FH:64:VAL:HB	1.90	0.53
9:G1:232:LEU:HD12	9:G1:233:LYS:N	2.24	0.53
10:G5:311:SER:HB2	10:G5:313:TRP:CZ3	2.44	0.53
2:GE:5:ILE:HB	2:GE:135:PHE:CD1	2.43	0.53
3:GH:31:ASP:OD1	3:GH:35:THR:N	2.40	0.53
3:GH:181:GLU:HG3	3:GH:182:PRO:HD3	1.91	0.53
2:GI:326:LYS:HA	2:GI:329:ASN:HD21	1.73	0.53
2:HE:415:GLU:N	2:HE:415:GLU:OE1	2.42	0.53
2:HG:296:PHE:HD2	2:HG:335:ILE:HG12	1.73	0.53
2:HG:356:ASN:OD1	2:HG:357:TYR:N	2.41	0.53
2:IG:172:TYR:N	2:IG:204:VAL:O	2.38	0.53
2:IG:251:ASP:N	2:IG:254:GLU:OE2	2.41	0.53
13:J2:170:SER:OG	13:J2:172:ILE:O	2.26	0.53
13:J3:114:THR:HG23	13:J3:152:LEU:HD21	1.90	0.53
3:JD:275:SER:O	3:JD:279:GLN:NE2	2.41	0.53
14:K3:328:ILE:HG22	14:K3:331:ARG:HH21	1.72	0.53
3:KF:6:HIS:HD2	3:KF:134:GLN:NE2	2.06	0.53
2:KG:113:GLU:OE1	2:KG:113:GLU:N	2.42	0.53
2:KG:272:TYR:HD2	2:KG:275:VAL:HG13	1.73	0.53
3:LF:423:GLN:HA	3:LF:426:GLN:HE21	1.73	0.53
2:LG:427:ALA:HA	2:LG:430:LYS:HG2	1.91	0.53
3:MH:31:ASP:OD2	3:MH:33:THR:OG1	2.27	0.53
3:MH:346:PRO:O	2:MI:394:LYS:NZ	2.42	0.53
17:N3:68:LYS:HD3	17:N3:69:ASP:N	2.23	0.53
3:NF:324:LYS:HE2	2:NG:222:PRO:HD2	1.90	0.53
2:NG:352:LYS:HD3	3:NH:178:THR:HA	1.91	0.53
2:NI:68:VAL:HG12	2:NI:93:ILE:HB	1.90	0.53
2:NI:313:MET:HG3	2:NI:344:VAL:HG21	1.89	0.53
2:OE:90:GLU:OE1	2:OE:90:GLU:N	2.34	0.53
3:OH:270:PHE:HD2	3:OH:273:LEU:HD21	1.72	0.53
19:P1:593:MET:HA	19:P1:603:VAL:O	2.08	0.53
2:PE:399:TYR:O	2:PE:402:ARG:NH1	2.41	0.53
2:PI:285:GLN:HE22	2:PI:287:SER:HB3	1.72	0.53
2:QI:16:ILE:HB	2:QI:231:ILE:HD11	1.91	0.53
3:RF:376:GLU:HG2	3:RF:377:LEU:HD12	1.91	0.53
3:RF:379:LYS:O	3:RF:382:SER:OG	2.17	0.53
3:RH:163:ILE:HD11	3:RH:251:ARG:HG2	1.90	0.53
2:SG:90:GLU:OE1	2:SG:90:GLU:N	2.41	0.53
3:TH:12:CYS:SG	3:TH:13:GLY:N	2.81	0.53
2:TI:209:ILE:HG13	2:TI:302:MET:CE	2.39	0.53
2:UE:175:PRO:HA	2:UE:390:ARG:NE	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UH:320:ARG:NH1	3:UH:320:ARG:HA	2.23	0.53
3:VD:199:THR:HB	3:VD:264:HIS:O	2.09	0.53
2:VE:192:HIS:CE1	2:VE:193:THR:HG23	2.43	0.53
3:VH:238:THR:HB	3:VH:242:PHE:HD2	1.74	0.53
2:WE:235:VAL:O	2:WE:238:ILE:HG22	2.09	0.53
3:WF:139:LEU:N	3:WF:168:SER:OG	2.41	0.53
2:WG:287:SER:OG	2:WG:290:GLU:OE1	2.23	0.53
2:WI:202:PHE:HD1	2:WI:268:PRO:HD2	1.74	0.53
23:XJ:182:ASN:OD1	23:XJ:185:LYS:NZ	2.37	0.53
23:XK:204:ASN:O	23:XK:208:LEU:HG	2.09	0.53
23:XL:57:ARG:HG3	23:XL:58:LYS:N	2.24	0.53
24:YJ:4:VAL:HG11	24:YJ:83:PHE:CZ	2.43	0.53
24:YK:8:LEU:HA	24:YK:11:ILE:HG22	1.91	0.53
3:AF:11:GLN:NE2	25:AF:501:GTP:O4'	2.42	0.53
2:AG:81:GLY:O	2:AG:84:ARG:HD2	2.08	0.53
2:AG:429:GLU:HA	2:AG:432:TYR:CD2	2.44	0.53
4:B2:293:LEU:HB2	4:B3:39:ARG:HH22	1.74	0.53
4:B8:338:LEU:O	4:B8:342:VAL:HG23	2.07	0.53
2:BG:212:ILE:HG13	2:BG:215:ARG:NH2	2.24	0.53
3:BH:99:ASN:HA	3:BH:142:GLY:HA3	1.90	0.53
2:BI:214:ARG:NH1	2:BI:215:ARG:HG3	2.24	0.53
2:BI:427:ALA:HA	2:BI:430:LYS:HG2	1.89	0.53
5:C3:121:ARG:O	5:C3:124:THR:OG1	2.21	0.53
5:C4:406:ARG:HH12	5:C4:412:CYS:H	1.55	0.53
3:CF:344:TRP:O	2:CG:401:LYS:NZ	2.23	0.53
3:CH:406:MET:O	3:CH:409:THR:OG1	2.18	0.53
2:CI:372:GLN:HB3	2:CI:373:ARG:HH11	1.73	0.53
6:D3:393:GLU:HA	6:D3:396:GLN:OE1	2.09	0.53
3:DD:15:GLN:HG2	3:DD:222:TYR:CE1	2.43	0.53
3:DD:111:GLU:HG2	3:DD:112:LEU:HD12	1.90	0.53
3:DD:238:THR:HA	3:DD:241:ARG:HH11	1.72	0.53
3:DH:81:PHE:O	3:DH:84:ILE:HG22	2.08	0.53
2:EG:54:SER:OG	2:EG:64:ARG:NH2	2.42	0.53
8:F2:399:ARG:NH2	8:F2:413:GLN:HE21	2.07	0.53
8:F3:175:ARG:O	8:F3:178:GLU:HG3	2.08	0.53
8:F6:230:ARG:O	8:F6:234:LYS:HG2	2.09	0.53
8:F7:201:ARG:NH1	8:F7:205:ASP:O	2.41	0.53
9:G1:114:HIS:HB2	9:G1:115:TYR:CD2	2.44	0.53
9:G2:474:LYS:HA	9:G2:485:TYR:CD2	2.44	0.53
10:G5:49:TYR:CD2	3:MH:83:GLN:HB3	2.44	0.53
10:G5:184:LYS:N	10:G5:184:LYS:HD2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:88:ASP:OD1	3:GD:89:ASN:N	2.42	0.53
2:GE:31:GLN:HE22	2:GE:37:PRO:HD3	1.74	0.53
2:GG:272:TYR:HD1	2:GG:275:VAL:HG13	1.74	0.53
2:GI:119:LEU:HA	2:GI:122:ILE:HG12	1.91	0.53
2:HG:398:MET:O	2:HG:401:LYS:HG2	2.09	0.53
3:IH:40:SER:HB3	3:IH:42:LEU:HD23	1.91	0.53
2:II:12:ALA:HB2	25:II:501:GTP:H5''	1.90	0.53
3:JH:47:ILE:HD11	3:JH:51:TYR:CD2	2.44	0.53
3:KD:64:VAL:HA	3:KD:89:ASN:OD1	2.08	0.53
3:KD:334:GLN:O	3:KD:338:SER:OG	2.13	0.53
3:KD:347:ASN:HB3	2:KE:178:SER:HB3	1.91	0.53
2:KG:13:GLY:O	2:KG:16:ILE:HG12	2.09	0.53
15:L3:124:ILE:HG21	15:L3:133:LYS:HG3	1.90	0.53
3:LH:28:HIS:HA	3:LH:43:GLN:OE1	2.08	0.53
3:LH:198:GLU:OE2	3:LH:266:PHE:HD2	1.92	0.53
3:LH:226:ASN:HA	3:LH:229:VAL:HG22	1.91	0.53
3:LH:407:GLU:OE1	3:LH:407:GLU:N	2.39	0.53
2:MG:247:ALA:HB1	25:MH:501:GTP:O6	2.08	0.53
3:NF:97:ALA:HA	3:NF:103:LYS:HD3	1.90	0.53
3:NH:203:ASP:O	3:NH:207:LEU:HG	2.08	0.53
2:OG:2:ARG:NH2	2:OG:250:VAL:O	2.41	0.53
2:OG:387:ALA:O	2:OG:390:ARG:HG2	2.09	0.53
3:OH:130:LEU:HB3	3:OH:162:ARG:HH11	1.73	0.53
19:P1:186:GLU:HG2	19:P1:195:TRP:HB2	1.91	0.53
19:P1:231:LYS:HG2	19:P1:240:ALA:HB3	1.90	0.53
19:P2:433:ILE:HG13	19:P2:443:VAL:HG22	1.90	0.53
3:PF:12:CYS:HB3	25:PF:501:GTP:H5'	1.91	0.53
3:PF:17:GLY:O	3:PF:21:TRP:HD1	1.91	0.53
2:PG:33:ASP:OD1	2:PG:34:GLY:N	2.42	0.53
2:PG:167:LEU:HB3	2:PG:169:PHE:CE2	2.44	0.53
2:PG:321:GLY:HA3	2:PG:372:GLN:O	2.09	0.53
3:PH:422:TYR:O	3:PH:426:GLN:HG3	2.08	0.53
2:PI:89:PRO:HB2	2:PI:90:GLU:OE1	2.09	0.53
20:Q2:1417:ARG:HG3	20:Q2:1419:ARG:H	1.72	0.53
2:QE:397:LEU:O	2:QE:401:LYS:HG2	2.09	0.53
3:QF:211:CYS:HA	3:QF:215:LEU:HB2	1.90	0.53
2:QG:286:LEU:HD21	2:QG:372:GLN:HE21	1.74	0.53
2:RE:396:ASP:OD1	2:RE:397:LEU:N	2.41	0.53
3:RF:6:HIS:HB2	3:RF:134:GLN:NE2	2.24	0.53
3:RF:190:HIS:NE2	3:RF:410:GLU:OE1	2.41	0.53
3:RF:265:PHE:CD2	3:RF:374:ILE:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:11:GLN:OE1	25:RH:501:GTP:N2	2.42	0.53
3:RH:218:THR:OG1	3:RH:219:THR:N	2.41	0.53
2:RI:214:ARG:NH1	2:RI:215:ARG:HG3	2.24	0.53
2:TI:137:ILE:HB	2:TI:168:GLU:HA	1.89	0.53
3:TJ:3:GLU:N	3:TJ:3:GLU:OE1	2.41	0.53
3:UD:135:LEU:HG	3:UD:137:HIS:ND1	2.24	0.53
3:UH:211:CYS:SG	3:UH:220:PRO:HG3	2.49	0.53
2:VE:53:PHE:HB3	2:VE:61:HIS:HB3	1.90	0.53
2:VE:325:PRO:O	2:VE:329:ASN:ND2	2.42	0.53
2:VE:344:VAL:HG23	2:VE:347:CYS:H	1.73	0.53
3:VF:15:GLN:NE2	25:VF:501:GTP:C2	2.69	0.53
2:VG:139:HIS:CE1	2:VG:168:GLU:HB3	2.44	0.53
3:VH:378:PHE:O	3:VH:381:ILE:HG22	2.08	0.53
2:WG:1:MET:O	2:WG:131:GLY:HA3	2.09	0.53
2:WG:399:TYR:HE1	2:WG:418:PHE:HB3	1.73	0.53
2:WI:229:ARG:NH2	2:WI:365:GLY:O	2.41	0.53
23:XJ:55:THR:O	23:XJ:58:LYS:HG3	2.08	0.53
24:YI:30:GLU:OE2	24:YI:33:ARG:NE	2.32	0.53
24:YK:4:VAL:O	24:YK:7:SER:OG	2.22	0.53
24:YK:14:LYS:HZ3	24:YK:72:ILE:HG21	1.73	0.53
2:AE:74:VAL:O	2:AE:77:GLU:HG3	2.09	0.53
2:AI:417:GLU:HA	2:AI:420:GLU:HG2	1.91	0.53
4:B7:12:TYR:OH	4:B8:126:ILE:O	2.20	0.53
4:B7:280:LYS:HA	4:B7:283:GLU:HG3	1.91	0.53
4:B8:135:GLU:OE1	4:B8:135:GLU:N	2.42	0.53
2:BE:70:LEU:HB3	2:BE:97:GLU:O	2.08	0.53
2:BE:115:VAL:HA	2:BE:118:VAL:HG22	1.90	0.53
2:CI:102:ASN:HD21	2:CI:411:GLU:HG2	1.74	0.53
3:DD:119:VAL:O	3:DD:122:LYS:HG2	2.09	0.53
2:DE:79:ARG:HH22	11:H3:285:TYR:HA	1.73	0.53
3:DF:374:ILE:HG23	3:DF:377:LEU:HD12	1.90	0.53
2:DG:186:ASN:OD1	2:DG:187:SER:N	2.41	0.53
3:ED:20:PHE:CZ	3:ED:24:ILE:HD11	2.44	0.53
3:ED:234:SER:O	3:ED:238:THR:HG23	2.08	0.53
2:EE:318:LEU:O	2:EE:375:VAL:HA	2.08	0.53
8:F2:405:VAL:HG22	8:F3:296:TRP:HE1	1.73	0.53
2:FE:311:LYS:HE3	2:FE:344:VAL:HG12	1.91	0.53
3:FF:130:LEU:HB3	3:FF:132:GLY:N	2.23	0.53
3:FF:372:THR:HG21	3:FF:426:GLN:HG2	1.91	0.53
9:G1:233:LYS:O	9:G1:237:THR:OG1	2.19	0.53
10:G5:48:LEU:HB2	10:G5:51:GLN:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G5:465:VAL:O	10:G5:480:PHE:N	2.37	0.53
2:GE:17:GLY:O	2:GE:21:TRP:HE3	1.91	0.53
2:GE:273:ALA:HB2	2:GE:295:CYS:HB3	1.91	0.53
3:GF:324:LYS:NZ	2:GG:222:PRO:O	2.42	0.53
3:GH:324:LYS:HD3	2:GI:210:TYR:CE1	2.43	0.53
2:GI:76:ASP:O	2:GI:79:ARG:HG2	2.09	0.53
11:H4:279:GLN:HB2	11:H4:308:TYR:HE2	1.73	0.53
3:HF:324:LYS:HE2	2:HG:222:PRO:HG2	1.91	0.53
2:HG:107:HIS:CD2	2:HG:152:LEU:HB2	2.44	0.53
2:HG:227:LEU:HD12	2:HG:227:LEU:H	1.74	0.53
2:HG:320:ARG:HG2	2:HG:358:GLN:O	2.09	0.53
3:HH:11:GLN:HG3	25:HH:501:GTP:PA	2.49	0.53
2:IE:235:VAL:HA	2:IE:238:ILE:HG12	1.90	0.53
2:IG:133:GLN:O	2:IG:165:SER:OG	2.26	0.53
3:IH:197:ASP:OD1	3:IH:198:GLU:N	2.41	0.53
2:II:125:LEU:O	2:II:128:LEU:HG	2.09	0.53
13:J2:149:TRP:O	13:J2:152:LEU:N	2.41	0.53
3:JF:392:LYS:O	3:JF:395:LEU:HD22	2.08	0.53
2:JG:401:LYS:C	2:JG:402:ARG:HD3	2.29	0.53
3:KD:43:GLN:HA	3:KD:242:PHE:HE1	1.74	0.53
3:KF:327:ASP:O	3:KF:330:MET:HG3	2.09	0.53
2:KI:16:ILE:HG13	2:KI:17:GLY:H	1.73	0.53
2:KI:406:HIS:HA	2:KI:409:VAL:HG22	1.91	0.53
2:KI:408:TYR:O	2:KI:411:GLU:HG3	2.09	0.53
3:LD:193:VAL:HG21	3:LD:418:LEU:HD21	1.91	0.53
3:LD:234:SER:O	3:LD:238:THR:HG23	2.09	0.53
3:LF:341:PHE:HB3	3:LF:348:ASN:HD21	1.74	0.53
3:LH:117:LEU:HA	3:LH:120:VAL:HG12	1.90	0.53
3:LH:172:SER:HB3	3:LH:175:VAL:O	2.08	0.53
3:LH:378:PHE:HA	3:LH:381:ILE:HG22	1.91	0.53
2:ME:387:ALA:O	2:ME:391:LEU:HG	2.09	0.53
2:MG:431:ASP:C	18:O2:46:ARG:HH21	2.12	0.53
2:MI:47:ASP:O	2:MI:49:PHE:N	2.42	0.53
2:MI:219:ILE:HG22	2:MI:222:PRO:HD3	1.91	0.53
2:NE:214:ARG:NH1	2:NE:215:ARG:HG3	2.24	0.53
3:NF:278:SER:HA	3:NF:281:TYR:HB2	1.91	0.53
2:NG:362:VAL:HA	2:NG:368:LEU:HD11	1.91	0.53
3:NH:275:SER:N	3:NH:278:SER:OG	2.40	0.53
2:OE:28:HIS:HB2	2:OE:30:ILE:HG12	1.91	0.53
2:OE:90:GLU:HG2	2:OE:121:ARG:CZ	2.39	0.53
3:OF:31:ASP:OD1	3:OF:35:THR:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:313:VAL:HG23	3:OF:349:VAL:HA	1.89	0.53
2:OG:256:GLN:O	2:OG:260:VAL:HG12	2.08	0.53
3:OH:286:VAL:HG21	3:OH:325:GLU:HG3	1.91	0.53
3:OH:375:GLN:HA	3:OH:378:PHE:CZ	2.44	0.53
2:OI:53:PHE:CG	2:OI:61:HIS:HB3	2.44	0.53
19:P1:48:LEU:HB3	19:P1:50:GLN:HE22	1.74	0.53
19:P2:122:ASN:N	19:P2:171:ASP:OD2	2.35	0.53
3:PH:258:VAL:HB	2:PI:407:TRP:CH2	2.43	0.53
2:QG:346:TRP:CH2	3:QH:391:ARG:HB2	2.44	0.53
3:QH:309:ARG:HB2	3:QH:426:GLN:HE21	1.74	0.53
2:RE:89:PRO:HB2	2:RE:90:GLU:OE1	2.09	0.53
3:RF:105:HIS:ND1	3:RF:149:THR:OG1	2.41	0.53
2:RI:268:PRO:HB2	2:RI:378:LEU:HD11	1.90	0.53
2:SE:122:ILE:HD12	2:SE:157:LEU:HD11	1.91	0.53
2:SG:114:ILE:O	2:SG:118:VAL:HG23	2.09	0.53
2:TG:325:PRO:HA	2:TG:328:VAL:HB	1.91	0.53
3:UD:73:MET:HA	3:UD:76:VAL:HG12	1.91	0.53
3:UF:54:ALA:HA	3:VF:283:ALA:HB2	1.90	0.53
2:UG:3:GLU:OE2	2:UG:131:GLY:N	2.33	0.53
2:UG:169:PHE:HD1	2:UG:202:PHE:HB2	1.73	0.53
3:UH:121:ARG:NH2	3:UH:158:GLU:OE2	2.40	0.53
2:VG:262:TYR:CE1	3:VH:393:ALA:HA	2.41	0.53
3:VH:152:ILE:O	3:VH:156:ARG:HG2	2.08	0.53
3:WH:132:GLY:HA2	3:WH:162:ARG:HB3	1.91	0.53
3:WH:176:SER:O	3:WH:178:THR:N	2.42	0.53
3:WH:345:ILE:HD12	3:WH:346:PRO:HD2	1.91	0.53
3:WH:407:GLU:OE1	3:WH:407:GLU:N	2.31	0.53
2:WI:24:TYR:HA	2:WI:27:GLU:OE1	2.08	0.53
2:WI:338:LYS:HZ2	2:WI:340:THR:N	2.06	0.53
22:XC:38:THR:HA	22:XC:45:LEU:HA	1.91	0.53
22:XD:134:PHE:HB3	22:XD:139:PHE:CE2	2.44	0.53
22:XE:28:LYS:O	22:XE:57:THR:HA	2.08	0.53
24:YI:41:ARG:NH2	24:YI:44:SER:OG	2.41	0.53
3:AH:3:GLU:OE2	3:AH:128:ASP:N	2.41	0.53
2:AI:214:ARG:NH1	2:AI:215:ARG:HG3	2.24	0.53
4:B2:408:VAL:HG13	4:B2:409:ASP:N	2.24	0.53
2:BE:169:PHE:CE1	2:BE:202:PHE:HD2	2.27	0.53
3:BF:345:ILE:HD12	3:BF:346:PRO:HD2	1.90	0.53
3:BH:31:ASP:OD2	3:BH:33:THR:OG1	2.27	0.53
3:BH:69:GLU:OE1	3:BH:72:THR:N	2.41	0.53
2:BI:220:GLU:HG2	2:BI:221:ARG:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C7:147:GLY:O	5:C7:150:VAL:HG12	2.09	0.53
5:C8:381:SER:HA	5:C8:384:LYS:NZ	2.24	0.53
3:CH:372:THR:HG21	3:CH:426:GLN:HB2	1.91	0.53
2:CI:88:HIS:HE1	2:CI:90:GLU:HG2	1.74	0.53
6:D4:403:ARG:O	6:D4:406:GLU:HG2	2.09	0.53
3:DF:100:ASN:OD1	3:DF:398:TYR:HE1	1.92	0.53
2:DG:161:TYR:HB3	2:DG:164:LYS:HD2	1.91	0.53
3:ED:278:SER:HA	3:ED:281:TYR:HB2	1.90	0.53
3:EF:47:ILE:HG13	3:EF:51:TYR:HB2	1.91	0.53
25:FF:502:GTP:O2B	2:FG:144:GLY:N	2.38	0.53
9:G2:164:HIS:O	9:G2:166:LYS:N	2.42	0.53
3:GD:42:LEU:HD12	3:GD:243:PRO:HD2	1.91	0.53
3:GD:52:ASN:CG	3:GD:62:ARG:HD2	2.30	0.53
3:GD:81:PHE:O	3:GD:84:ILE:HG22	2.08	0.53
3:GD:182:PRO:HB2	3:GD:388:MET:HE2	1.91	0.53
3:GD:238:THR:HG21	3:GD:318:ARG:NH1	2.24	0.53
3:GD:240:LEU:HD22	3:GD:248:ALA:HB1	1.89	0.53
2:GI:320:ARG:HD3	2:GI:360:PRO:HG3	1.91	0.53
11:H3:275:ILE:HD12	11:H3:275:ILE:H	1.74	0.53
11:H4:238:ASP:O	11:H4:242:GLN:NE2	2.42	0.53
2:HE:408:TYR:HD2	2:HE:418:PHE:HZ	1.56	0.53
3:HF:182:PRO:HA	3:HF:381:ILE:HD11	1.91	0.53
2:HI:362:VAL:HA	2:HI:368:LEU:HD11	1.90	0.53
3:IF:111:GLU:HG2	3:IF:112:LEU:HD12	1.91	0.53
3:IF:415:MET:O	3:IF:419:VAL:HG23	2.08	0.53
3:IH:134:GLN:HA	3:IH:165:ASN:O	2.07	0.53
13:J3:105:CYS:O	13:J3:108:GLY:N	2.42	0.53
3:JD:15:GLN:NE2	3:JD:222:TYR:HD1	2.03	0.53
2:JE:9:VAL:HG11	2:JE:150:ALA:HB2	1.91	0.53
2:JE:306:ASP:OD2	2:JE:309:HIS:N	2.41	0.53
2:JG:174:ALA:HB3	2:JG:177:VAL:O	2.09	0.53
2:JG:304:LYS:HD2	2:JG:304:LYS:H	1.74	0.53
14:K4:248:MET:SD	14:K4:249:ASN:N	2.82	0.53
3:KD:211:CYS:HA	3:KD:215:LEU:HB3	1.90	0.53
2:KI:135:PHE:CZ	2:KI:164:LYS:HD2	2.44	0.53
15:L3:187:ARG:NH2	15:L3:249:ILE:HG21	2.24	0.53
2:MG:315:CYS:O	2:MG:351:PHE:HA	2.08	0.53
2:MI:211:ASP:O	2:MI:214:ARG:NH1	2.41	0.53
3:ND:235:GLY:O	3:ND:238:THR:OG1	2.19	0.53
2:NE:390:ARG:HA	2:NE:393:HIS:CE1	2.44	0.53
3:NF:289:LEU:HD21	3:NF:363:MET:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:324:LYS:HE2	2:NG:222:PRO:CD	2.39	0.53
2:NG:175:PRO:HG2	2:NG:304:LYS:HD3	1.89	0.53
2:NI:214:ARG:NH1	2:NI:215:ARG:HG3	2.24	0.53
3:OF:12:CYS:SG	3:OF:13:GLY:N	2.81	0.53
2:OG:9:VAL:HG22	2:OG:146:GLY:HA2	1.89	0.53
3:OH:21:TRP:CZ2	3:OH:63:ALA:HB2	2.44	0.53
19:P1:41:TYR:CE2	19:P1:48:LEU:HD22	2.44	0.53
3:PF:246:LEU:HB3	3:PF:353:VAL:H	1.74	0.53
3:PH:217:LEU:HD11	3:PH:220:PRO:HB3	1.90	0.53
2:PI:22:GLU:O	2:PI:26:LEU:HD23	2.09	0.53
2:PI:115:VAL:HA	2:PI:118:VAL:HG22	1.90	0.53
20:Q2:1342:GLU:O	20:Q2:1346:GLU:HG2	2.09	0.53
2:QE:2:ARG:NH1	2:QE:241:SER:O	2.42	0.53
2:QE:137:ILE:N	2:QE:167:LEU:O	2.40	0.53
2:QE:154:MET:HA	2:QE:157:LEU:HG	1.91	0.53
2:QE:166:LYS:O	2:QE:199:ASP:HB2	2.08	0.53
2:QE:205:ASP:OD2	2:QE:304:LYS:NZ	2.33	0.53
2:QG:414:GLU:HG2	2:QG:417:GLU:OE1	2.08	0.53
3:QH:392:LYS:HB2	3:QH:395:LEU:HD13	1.91	0.53
3:QH:395:LEU:O	3:QH:399:THR:HG23	2.09	0.53
2:RE:213:CYS:O	2:RE:218:ASP:N	2.42	0.53
2:RE:235:VAL:O	2:RE:238:ILE:HG12	2.09	0.53
3:RJ:224:ASP:O	3:RJ:227:HIS:HB3	2.09	0.53
3:SF:7:LEU:HD13	3:SF:64:VAL:HB	1.90	0.53
3:SH:20:PHE:CE1	3:SH:24:ILE:HD11	2.44	0.53
3:SH:51:TYR:CD1	3:SH:61:PRO:HA	2.44	0.53
3:TF:379:LYS:O	3:TF:382:SER:OG	2.13	0.53
3:TJ:68:LEU:HD12	3:TJ:97:ALA:HB2	1.90	0.53
3:UD:337:ASN:HD22	3:UD:340:TYR:HD2	1.57	0.53
2:UE:54:SER:H	2:UE:62:VAL:H	1.57	0.53
3:UF:81:PHE:HA	3:UF:83:GLN:HE22	1.74	0.53
3:UF:152:ILE:HA	3:UF:155:ILE:HG12	1.90	0.53
3:UF:270:PHE:CG	3:UF:271:ALA:N	2.77	0.53
2:UG:1:MET:O	2:UG:131:GLY:HA3	2.09	0.53
2:UG:56:THR:HG21	2:VG:285:GLN:HB2	1.90	0.53
3:VD:36:TYR:CE2	3:VD:38:GLY:HA2	2.44	0.53
3:VD:346:PRO:HD2	2:VE:398:MET:HE1	1.91	0.53
2:VE:125:LEU:HD13	2:VE:128:LEU:HD21	1.91	0.53
2:VG:5:ILE:HB	2:VG:135:PHE:CD1	2.43	0.53
3:VH:12:CYS:HB3	25:VH:501:GTP:H5'	1.91	0.53
2:WE:280:LYS:HD2	2:WE:283:HIS:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:218:THR:OG1	3:WF:219:THR:N	2.36	0.53
2:WG:36:MET:HG3	2:WG:41:THR:OG1	2.09	0.53
2:WG:85:GLN:OE1	2:WG:85:GLN:N	2.35	0.53
3:WH:1:MET:N	3:WH:128:ASP:OD2	2.42	0.53
24:YK:132:ASN:OD1	24:YK:133:HIS:N	2.42	0.53
3:AF:12:CYS:SG	3:AF:138:SER:HB2	2.49	0.52
3:AF:214:THR:HG23	3:AF:215:LEU:HD22	1.91	0.52
4:B8:341:GLU:O	4:B8:344:GLN:HG3	2.09	0.52
2:BI:338:LYS:NZ	2:BI:339:ARG:H	2.07	0.52
5:C8:156:TRP:O	5:C8:160:ILE:HG12	2.09	0.52
3:CF:41:ASP:N	3:CF:41:ASP:OD1	2.41	0.52
3:CH:46:ARG:HH12	2:CI:73:THR:HG23	1.74	0.52
3:CH:330:MET:HA	3:CH:330:MET:HE2	1.90	0.52
6:D3:209:GLU:OE1	7:E2:142:ARG:NH2	2.42	0.52
2:DE:320:ARG:CZ	2:DE:360:PRO:HA	2.38	0.52
3:DF:405:GLU:O	3:DF:409:THR:HG23	2.09	0.52
2:DG:288:VAL:HG11	2:DG:327:ASP:HB2	1.90	0.52
3:ED:275:SER:O	3:ED:279:GLN:NE2	2.41	0.52
3:ED:286:VAL:HG21	3:ED:325:GLU:HG3	1.91	0.52
2:EE:287:SER:OG	2:EE:290:GLU:OE1	2.25	0.52
8:F6:307:ALA:O	8:F6:311:ARG:HG3	2.09	0.52
8:F7:402:ARG:HB2	8:F7:407:LEU:HD13	1.90	0.52
2:FE:211:ASP:O	2:FE:215:ARG:HB2	2.09	0.52
9:G1:265:HIS:N	9:G1:274:GLU:OE2	2.41	0.52
9:G2:99:PHE:HE1	9:G2:190:THR:HG21	1.74	0.52
9:G2:143:ILE:O	9:G2:145:GLN:NE2	2.43	0.52
10:G5:698:ASN:OD1	10:G5:699:TRP:N	2.41	0.52
3:GF:146:GLY:O	3:GF:149:THR:OG1	2.27	0.52
2:GG:50:ASN:OD1	2:GG:51:THR:N	2.41	0.52
2:GG:90:GLU:N	2:GG:90:GLU:OE1	2.41	0.52
2:GG:185:TYR:CD1	2:GG:395:PHE:HE1	2.27	0.52
2:GI:88:HIS:HE1	2:GI:90:GLU:HG2	1.73	0.52
11:H3:306:ARG:O	11:H3:310:LYS:HG2	2.09	0.52
11:H4:11:THR:CB	11:H4:12:PRO:HD2	2.39	0.52
11:H4:251:GLN:O	11:H4:254:PHE:HB3	2.08	0.52
2:HI:389:ALA:HA	2:HI:392:ASP:OD2	2.09	0.52
3:IF:8:GLN:OE1	3:IF:9:ALA:N	2.42	0.52
3:IF:286:VAL:HG21	3:IF:325:GLU:HG3	1.91	0.52
3:IF:416:ASN:O	3:IF:419:VAL:HB	2.08	0.52
2:II:391:LEU:HB3	2:II:395:PHE:CE2	2.43	0.52
13:J3:63:GLU:O	13:J3:65:ILE:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:28:HIS:HA	3:JD:43:GLN:OE1	2.08	0.52
2:JE:420:GLU:OE2	2:NE:308:ARG:HB3	2.09	0.52
3:JF:5:VAL:HG23	3:JF:130:LEU:HD21	1.91	0.52
3:JH:233:MET:O	3:JH:236:VAL:HG12	2.10	0.52
14:K2:488:THR:O	14:K2:490:ALA:N	2.36	0.52
14:K3:279:LYS:HD3	14:K3:280:THR:H	1.74	0.52
3:KD:198:GLU:HG2	3:KD:266:PHE:CE2	2.38	0.52
2:KE:234:ILE:O	2:KE:237:SER:OG	2.20	0.52
3:KF:178:THR:HB	3:KF:181:GLU:HB2	1.90	0.52
3:KH:174:LYS:HG3	3:KH:175:VAL:HG22	1.90	0.52
2:KI:30:ILE:HA	2:KI:36:MET:HE3	1.90	0.52
2:KI:306:ASP:HB3	2:KI:309:HIS:ND1	2.24	0.52
15:L3:65:LYS:NZ	3:LH:413:SER:OG	2.42	0.52
15:L3:88:VAL:H	2:LI:264:ARG:NH2	2.07	0.52
2:LE:16:ILE:HG23	25:LE:501:GTP:HN21	1.73	0.52
2:LI:229:ARG:NH1	2:LI:233:GLN:HB2	2.24	0.52
2:ME:338:LYS:NZ	2:ME:339:ARG:H	2.07	0.52
3:MH:275:SER:N	3:MH:278:SER:OG	2.42	0.52
19:P2:287:VAL:HG23	19:P2:322:PHE:CE2	2.44	0.52
19:P2:297:THR:O	19:P2:305:PHE:HB2	2.09	0.52
20:Q2:1382:LEU:HD22	20:Q2:1386:TYR:HE2	1.73	0.52
2:QG:82:THR:HG22	24:YI:120:GLU:HG3	1.91	0.52
2:RE:211:ASP:O	2:RE:215:ARG:HB2	2.09	0.52
3:RJ:83:GLN:O	3:RJ:86:ARG:NH2	2.20	0.52
3:SF:172:SER:HB3	3:SF:175:VAL:O	2.08	0.52
3:SF:245:GLN:OE1	2:SG:224:TYR:OH	2.26	0.52
3:SF:416:ASN:O	3:SF:419:VAL:HG22	2.09	0.52
3:TF:268:PRO:HD2	3:TF:301:ALA:HB2	1.90	0.52
3:TH:36:TYR:CZ	3:TH:38:GLY:HA2	2.44	0.52
3:TH:292:GLN:O	3:TH:298:ASN:ND2	2.34	0.52
3:TJ:51:TYR:HB3	3:TJ:59:TYR:HB3	1.91	0.52
3:UD:372:THR:HG21	3:UD:426:GLN:HB2	1.90	0.52
2:VE:216:ASN:OD1	2:VE:217:LEU:N	2.42	0.52
3:VF:305:PRO:HB2	3:VF:310:TYR:HE1	1.75	0.52
2:WE:186:ASN:HA	2:WE:189:LEU:HD12	1.90	0.52
2:WG:21:TRP:HD1	2:WG:67:PHE:HZ	1.57	0.52
22:XC:54:VAL:O	22:XC:157:HIS:ND1	2.41	0.52
22:XD:104:ARG:HB2	22:XD:118:ILE:HD11	1.92	0.52
24:YL:160:ARG:HA	24:YL:163:LEU:HD12	1.90	0.52
3:AF:151:LEU:O	3:AF:155:ILE:HG12	2.08	0.52
2:AG:203:MET:N	2:AG:203:MET:SD	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:11:GLN:HE21	25:AH:501:GTP:H3'	1.75	0.52
2:AI:389:ALA:HA	2:AI:392:ASP:OD2	2.09	0.52
4:B3:100:GLU:OE1	6:D3:161:ARG:NH1	2.42	0.52
4:B3:153:GLU:O	4:B3:156:SER:OG	2.15	0.52
3:BF:172:SER:OG	3:BF:205:GLU:OE2	2.20	0.52
3:BF:309:ARG:NH2	3:BF:426:GLN:OE1	2.40	0.52
3:CF:190:HIS:NE2	3:CF:414:ASN:OD1	2.43	0.52
2:CG:317:MET:HE3	2:CG:375:VAL:HG21	1.91	0.52
3:CH:322:SER:OG	3:CH:323:MET:N	2.41	0.52
2:CI:166:LYS:O	2:CI:199:ASP:HB2	2.09	0.52
3:CJ:84:ILE:O	3:CJ:86:ARG:NH1	2.35	0.52
6:D4:322:LEU:HD13	6:D4:412:LEU:HD22	1.90	0.52
6:D8:127:GLU:OE2	6:D8:279:ARG:NH1	2.36	0.52
3:DF:182:PRO:HA	3:DF:381:ILE:HD11	1.91	0.52
7:E2:106:PRO:O	7:E2:110:THR:HG23	2.09	0.52
3:ED:324:LYS:HD3	2:EE:210:TYR:CE1	2.44	0.52
3:ED:324:LYS:HD2	2:EE:221:ARG:HA	1.91	0.52
2:EG:88:HIS:HB3	2:EG:91:GLN:HB2	1.90	0.52
8:F2:180:ALA:O	8:F2:184:VAL:HG23	2.10	0.52
8:F2:204:ILE:O	8:F3:90:TYR:OH	2.28	0.52
8:F6:198:ARG:NH2	8:F6:469:CYS:SG	2.82	0.52
3:FD:11:GLN:HE21	25:FD:501:GTP:H3'	1.75	0.52
3:FD:249:ASP:O	3:FD:252:LYS:HB3	2.08	0.52
2:FE:26:LEU:HD11	2:FE:363:VAL:HA	1.90	0.52
3:FF:246:LEU:HD12	3:FF:352:ALA:HB1	1.91	0.52
9:G1:39:VAL:HB	9:G1:41:ARG:NH2	2.24	0.52
9:G2:39:VAL:HB	9:G2:41:ARG:NH2	2.24	0.52
3:GD:324:LYS:HE2	2:GE:222:PRO:HG2	1.91	0.52
3:GF:234:SER:O	3:GF:238:THR:HG23	2.09	0.52
11:H4:212:LEU:O	11:H4:213:ILE:HG13	2.09	0.52
3:HD:41:ASP:OD1	3:HD:42:LEU:N	2.42	0.52
3:HH:85:PHE:O	3:HH:86:ARG:NH2	2.43	0.52
2:HI:213:CYS:SG	2:HI:222:PRO:HG3	2.49	0.52
2:IE:16:ILE:HG13	2:IE:17:GLY:N	2.24	0.52
3:IF:12:CYS:HB3	25:IF:501:GTP:O4'	2.09	0.52
3:IF:36:TYR:HE2	3:IF:44:LEU:HD13	1.73	0.52
3:IF:416:ASN:HA	3:IF:419:VAL:CG2	2.39	0.52
3:JD:19:LYS:O	3:JD:22:GLU:HG3	2.09	0.52
3:JD:405:GLU:HA	3:JD:408:PHE:HD2	1.74	0.52
3:JF:73:MET:SD	3:JF:73:MET:N	2.77	0.52
3:JF:198:GLU:HG2	3:JF:266:PHE:CE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JG:214:ARG:HH12	2:JG:215:ARG:HG3	1.74	0.52
3:JH:217:LEU:HD21	3:JH:220:PRO:HB3	1.91	0.52
14:K3:239:GLN:HA	14:K3:242:LEU:HB2	1.90	0.52
2:KE:115:VAL:HG21	2:KE:156:ARG:HD3	1.91	0.52
2:KE:280:LYS:HZ2	2:KE:284:GLU:CD	2.12	0.52
2:KE:344:VAL:HG23	2:KE:346:TRP:H	1.75	0.52
2:KI:118:VAL:O	2:KI:122:ILE:HG12	2.09	0.52
15:L3:24:HIS:NE2	15:L3:25:PRO:O	2.42	0.52
3:LF:85:PHE:O	3:LF:86:ARG:NH2	2.42	0.52
3:LF:332:ASN:O	3:LF:336:LYS:HG2	2.09	0.52
2:LG:233:GLN:HE22	2:LG:368:LEU:HD13	1.75	0.52
3:ND:91:VAL:HG11	3:ND:116:VAL:HG12	1.91	0.52
2:NE:288:VAL:HA	2:NE:291:ILE:HG12	1.90	0.52
2:NI:234:ILE:O	2:NI:237:SER:OG	2.21	0.52
2:OE:8:HIS:CD2	2:OE:17:GLY:HA3	2.44	0.52
3:OH:40:SER:O	3:OH:43:GLN:HG2	2.09	0.52
2:OI:102:ASN:HA	2:OI:408:TYR:OH	2.07	0.52
19:P1:384:ARG:HD3	19:P1:427:SER:HB2	1.92	0.52
19:P1:561:VAL:HG12	19:P1:571:VAL:HB	1.91	0.52
2:PE:188:ILE:HG12	2:PE:421:ALA:HB1	1.90	0.52
2:PG:16:ILE:HG13	2:PG:17:GLY:N	2.24	0.52
2:PG:392:ASP:OD1	2:PG:393:HIS:N	2.42	0.52
20:Q2:1429:ALA:HB2	20:Q2:1499:LYS:HA	1.90	0.52
2:RE:5:ILE:HB	2:RE:135:PHE:HD1	1.74	0.52
3:RF:282:ARG:HH22	3:RF:292:GLN:CD	2.13	0.52
2:RG:107:HIS:CD2	2:RG:152:LEU:HB3	2.44	0.52
3:RH:31:ASP:OD1	3:RH:35:THR:N	2.42	0.52
3:RH:166:THR:OG1	3:RH:198:GLU:O	2.26	0.52
2:RI:216:ASN:HD21	2:RI:275:VAL:HG23	1.73	0.52
3:SF:104:GLY:HA2	3:SF:108:GLU:HB2	1.90	0.52
3:SF:291:GLN:NE2	3:SF:295:ASP:OD1	2.42	0.52
2:SI:55:GLU:HB2	2:SI:61:HIS:CD2	2.44	0.52
3:TF:7:LEU:HB2	3:TF:135:LEU:HG	1.91	0.52
3:TF:143:THR:HG22	3:TF:147:MET:HE2	1.91	0.52
2:TG:12:ALA:HB1	25:TG:501:GTP:C2	2.44	0.52
3:TH:250:LEU:HD13	3:TH:253:LEU:HD12	1.91	0.52
2:UE:9:VAL:HG11	2:UE:150:ALA:HB2	1.91	0.52
3:UF:278:SER:O	3:UF:282:ARG:HB2	2.09	0.52
2:UG:338:LYS:HZ2	2:UG:340:THR:H	1.57	0.52
2:VE:105:ARG:O	2:VE:109:THR:OG1	2.19	0.52
3:VF:375:GLN:HA	3:VF:378:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:137:ILE:HG22	2:VG:139:HIS:ND1	2.24	0.52
2:VG:346:TRP:HB3	3:VH:391:ARG:CZ	2.39	0.52
3:VH:32:PRO:C	3:VH:83:GLN:HE21	2.11	0.52
2:WE:319:TYR:HA	2:WE:374:ALA:O	2.09	0.52
3:WF:32:PRO:O	3:WF:83:GLN:NE2	2.34	0.52
3:WF:375:GLN:HA	3:WF:378:PHE:CE1	2.44	0.52
3:WF:405:GLU:O	3:WF:409:THR:HG23	2.09	0.52
2:WG:196:GLU:OE1	2:WG:196:GLU:N	2.28	0.52
2:WG:274:PRO:HG3	2:WG:374:ALA:HA	1.90	0.52
2:WI:102:ASN:ND2	2:WI:411:GLU:OE2	2.38	0.52
2:WI:128:LEU:HA	23:XL:106:PRO:HG3	1.91	0.52
2:WI:406:HIS:HA	2:WI:409:VAL:HG22	1.91	0.52
22:XE:25:TRP:CZ3	22:XE:61:CYS:HB2	2.44	0.52
23:XK:135:ILE:HB	23:XK:136:PRO:HD3	1.90	0.52
24:YN:33:ARG:HH22	24:YN:133:HIS:CD2	2.27	0.52
1:A2:185:ASP:OD1	1:A2:186:ASP:N	2.42	0.52
2:AE:207:GLU:HB2	2:AE:304:LYS:HZ3	1.73	0.52
2:AE:254:GLU:OE1	2:AE:254:GLU:N	2.34	0.52
3:AH:12:CYS:HB3	25:AH:501:GTP:O4'	2.09	0.52
2:AI:104:ALA:HA	2:AI:107:HIS:HB3	1.91	0.52
2:AI:332:ILE:HD11	2:AI:351:PHE:CG	2.44	0.52
4:B3:12:TYR:CD2	4:B3:16:ASP:HB2	2.44	0.52
2:BE:280:LYS:NZ	2:BE:284:GLU:OE2	2.37	0.52
2:BI:108:TYR:O	2:BI:112:LYS:NZ	2.31	0.52
5:C3:287:VAL:HG12	5:C3:290:VAL:HG11	1.91	0.52
5:C8:380:GLU:O	5:C8:383:LYS:HG2	2.09	0.52
3:CH:325:GLU:OE1	3:CH:325:GLU:N	2.28	0.52
3:CJ:206:ALA:HB1	3:CJ:300:MET:HA	1.90	0.52
3:CJ:382:SER:HA	3:CJ:385:PHE:CD2	2.44	0.52
6:D3:91:LEU:O	6:D3:95:THR:HG23	2.09	0.52
6:D4:427:ARG:NH2	6:D4:431:MET:HG3	2.23	0.52
6:D8:410:MET:SD	6:D8:411:SER:N	2.82	0.52
6:D8:441:LEU:HD11	8:F3:110:ARG:HH22	1.75	0.52
2:DE:3:GLU:N	2:DE:3:GLU:OE1	2.42	0.52
2:DE:104:ALA:HB1	2:DE:413:MET:HE3	1.90	0.52
3:DF:4:ILE:HD11	3:DF:131:GLN:HB2	1.90	0.52
3:DF:157:GLU:OE1	3:DF:157:GLU:N	2.33	0.52
2:DG:79:ARG:NH2	11:H4:283:PRO:O	2.20	0.52
3:EF:405:GLU:OE1	3:EF:405:GLU:N	2.34	0.52
8:F2:262:TYR:O	8:F2:266:ASN:ND2	2.42	0.52
8:F2:364:ILE:O	8:F2:368:ILE:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:FF:502:GTP:C6	2:FG:224:TYR:HE2	2.27	0.52
2:FG:279:GLU:OE2	2:FG:280:LYS:HG2	2.09	0.52
10:G5:606:TYR:HD2	10:G5:738:PHE:HB2	1.73	0.52
3:GD:378:PHE:CE1	3:GD:419:VAL:HG22	2.44	0.52
2:GG:351:PHE:CZ	3:GH:175:VAL:HB	2.44	0.52
3:HF:148:GLY:HA2	3:HF:151:LEU:HG	1.91	0.52
2:HI:239:THR:OG1	2:HI:243:ARG:NH1	2.42	0.52
2:IE:318:LEU:HG	2:IE:376:CYS:HB3	1.89	0.52
2:IG:192:HIS:CE1	2:IG:193:THR:HG23	2.44	0.52
3:IH:173:PRO:HA	3:IH:380:ARG:NH2	2.23	0.52
3:IH:284:LEU:HG	3:IH:289:LEU:HD11	1.92	0.52
2:JE:318:LEU:HB2	2:JE:376:CYS:HB3	1.90	0.52
14:K3:466:ARG:CZ	3:KH:401:GLU:HA	2.39	0.52
14:K3:488:THR:HA	14:K3:491:ARG:CZ	2.39	0.52
2:KE:145:THR:OG1	25:KE:501:GTP:O1B	2.25	0.52
2:KE:264:ARG:O	2:KE:266:HIS:ND1	2.42	0.52
3:KF:47:ILE:HD13	3:KF:241:ARG:HH21	1.74	0.52
3:KF:52:ASN:OD1	3:KF:62:ARG:NH1	2.43	0.52
3:KF:211:CYS:O	3:KF:216:LYS:N	2.41	0.52
3:KH:19:LYS:O	3:KH:22:GLU:HG3	2.09	0.52
3:KH:222:TYR:HA	3:KH:225:LEU:HD12	1.89	0.52
2:KI:30:ILE:HA	2:KI:36:MET:CE	2.39	0.52
15:L2:105:PHE:CE2	3:LF:424:GLN:HB3	2.44	0.52
15:L3:226:ARG:O	15:L3:230:LEU:HG	2.10	0.52
2:LE:50:ASN:O	2:LE:64:ARG:NH1	2.41	0.52
2:LE:327:ASP:OD1	2:LE:328:VAL:N	2.42	0.52
2:ME:116:ASP:N	2:ME:116:ASP:OD1	2.42	0.52
2:ME:129:CYS:SG	2:ME:132:LEU:HD12	2.50	0.52
3:MF:2:ARG:NH2	3:MF:129:CYS:HB2	2.25	0.52
3:MF:187:LEU:HD21	3:MF:408:PHE:CE1	2.44	0.52
3:MF:291:GLN:NE2	3:MF:295:ASP:OD2	2.43	0.52
3:MF:330:MET:CG	3:MF:349:VAL:HG11	2.38	0.52
3:MF:350:LYS:HE3	2:MG:181:VAL:N	2.24	0.52
3:MH:347:ASN:O	3:MH:350:LYS:NZ	2.42	0.52
3:ND:275:SER:O	3:ND:279:GLN:NE2	2.42	0.52
2:NE:260:VAL:HG23	2:NE:265:ILE:O	2.09	0.52
3:NF:394:PHE:HA	3:NF:397:TRP:HZ3	1.74	0.52
2:NG:90:GLU:OE1	2:NG:90:GLU:N	2.43	0.52
3:OD:211:CYS:HA	3:OD:215:LEU:HB2	1.91	0.52
3:OD:226:ASN:HA	3:OD:229:VAL:HG22	1.91	0.52
3:OF:229:VAL:O	3:OF:232:THR:OG1	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:238:THR:HA	3:OF:241:ARG:HG2	1.91	0.52
2:OI:28:HIS:CD2	2:OI:243:ARG:HH21	2.27	0.52
19:P2:158:VAL:HG11	19:P2:181:THR:HB	1.91	0.52
19:P2:337:ASP:N	19:P2:351:CYS:SG	2.82	0.52
19:P2:548:ILE:HG23	19:P2:563:GLY:H	1.74	0.52
19:P2:549:ASN:ND2	19:P2:591:MET:HG3	2.24	0.52
3:PF:238:THR:HA	3:PF:241:ARG:HG2	1.91	0.52
3:PH:256:ASN:ND2	3:PH:350:LYS:HD2	2.23	0.52
3:PH:291:GLN:NE2	3:PH:295:ASP:OD1	2.42	0.52
3:PH:334:GLN:HA	3:PH:341:PHE:HE2	1.74	0.52
2:QE:12:ALA:HB1	25:QE:501:GTP:C2	2.44	0.52
2:QE:214:ARG:NH1	2:QE:215:ARG:HG3	2.24	0.52
3:QF:217:LEU:HD11	3:QF:220:PRO:HB3	1.92	0.52
2:QG:298:PRO:O	2:QG:301:GLN:NE2	2.42	0.52
2:QG:430:LYS:HA	2:QG:433:GLU:HG3	1.91	0.52
2:QI:345:ASP:N	2:QI:345:ASP:OD1	2.42	0.52
3:RH:11:GLN:HE21	25:RH:501:GTP:H3'	1.73	0.52
2:RI:141:PHE:CD1	2:RI:172:TYR:HA	2.44	0.52
2:SE:166:LYS:O	2:SE:199:ASP:HB2	2.09	0.52
3:SF:19:LYS:HZ3	3:SF:227:HIS:HB2	1.75	0.52
2:SG:314:ALA:O	2:SG:379:SER:HA	2.10	0.52
2:SG:384:ILE:HB	2:SG:388:TRP:HZ3	1.74	0.52
3:SH:198:GLU:HG2	3:SH:266:PHE:CE2	2.44	0.52
3:SJ:374:ILE:HD12	3:SJ:374:ILE:H	1.74	0.52
2:TI:176:GLN:NE2	2:TI:207:GLU:OE2	2.42	0.52
3:TJ:172:SER:HB3	3:TJ:175:VAL:O	2.09	0.52
3:UD:278:SER:HA	3:UD:281:TYR:HB2	1.92	0.52
3:UD:380:ARG:O	3:UD:384:GLN:HG2	2.09	0.52
2:UG:311:LYS:HG2	2:UG:342:GLN:HB3	1.91	0.52
3:UH:214:THR:HG23	3:UH:215:LEU:HD12	1.92	0.52
2:VE:101:ASN:HB3	2:VE:182:VAL:HG11	1.91	0.52
3:VF:172:SER:HB3	3:VF:175:VAL:O	2.08	0.52
3:VF:322:SER:HB2	2:VG:221:ARG:CZ	2.39	0.52
2:WE:11:GLN:O	2:WE:14:VAL:HG22	2.10	0.52
2:WG:3:GLU:H	2:WG:133:GLN:HE22	1.56	0.52
2:WG:333:ALA:O	2:WG:337:THR:HG23	2.10	0.52
3:WH:12:CYS:SG	25:WH:501:GTP:H5'	2.49	0.52
2:WI:25:CYS:HB2	2:WI:30:ILE:HB	1.91	0.52
22:XE:20:LYS:HG3	22:XE:23:GLN:OE1	2.10	0.52
23:XK:105:PHE:HA	23:XK:108:GLU:OE1	2.09	0.52
24:YK:46:ILE:HD12	24:YK:106:GLN:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YL:26:ILE:O	24:YL:30:GLU:HG3	2.09	0.52
24:YN:96:LEU:HD22	24:YN:147:PHE:HB2	1.90	0.52
2:AE:229:ARG:HD3	2:AE:363:VAL:HG11	1.92	0.52
3:AH:143:THR:O	3:AH:147:MET:HG3	2.09	0.52
2:AI:11:GLN:OE1	2:AI:11:GLN:N	2.43	0.52
4:B3:364:ASP:O	4:B3:368:LYS:HG2	2.09	0.52
4:B7:119:LEU:HD22	4:B7:389:LYS:HZ2	1.75	0.52
4:B8:134:GLU:O	4:B8:138:LEU:HG	2.09	0.52
2:BE:189:LEU:HA	2:BE:192:HIS:CE1	2.44	0.52
3:BH:240:LEU:HD22	3:BH:248:ALA:HB1	1.90	0.52
3:BH:276:ARG:HD3	10:G5:126:PRO:HD3	1.90	0.52
3:CJ:36:TYR:OH	3:CJ:39:ASP:OD1	2.21	0.52
3:DD:48:ASN:ND2	11:H3:288:PHE:HB3	2.25	0.52
3:DF:246:LEU:HD12	3:DF:352:ALA:HB1	1.91	0.52
2:DG:1:MET:O	2:DG:131:GLY:HA3	2.08	0.52
2:EG:42:ILE:HG21	2:EG:59:GLY:HA2	1.90	0.52
8:F7:425:ASP:O	8:F7:428:GLN:HG3	2.09	0.52
3:FH:198:GLU:HG2	3:FH:266:PHE:CE2	2.44	0.52
3:FH:415:MET:O	3:FH:419:VAL:HG23	2.08	0.52
9:G1:137:VAL:HA	9:G1:145:GLN:HG2	1.91	0.52
10:G5:356:CYS:HB2	10:G5:360:THR:OG1	2.09	0.52
10:G5:642:CYS:HA	10:G5:645:GLU:CG	2.38	0.52
10:G5:714:LYS:HD3	10:G5:720:VAL:HG22	1.91	0.52
3:GD:11:GLN:HG3	25:GD:501:GTP:O5'	2.09	0.52
3:GD:202:ILE:HG23	3:GD:301:ALA:HA	1.91	0.52
3:GF:325:GLU:HB3	2:GG:221:ARG:NH1	2.24	0.52
2:GG:5:ILE:HB	2:GG:135:PHE:CD1	2.44	0.52
2:GG:261:PRO:HA	3:GH:394:PHE:CE1	2.45	0.52
2:GI:107:HIS:CD2	2:GI:152:LEU:HB2	2.44	0.52
3:HD:127:CYS:SG	3:HD:130:LEU:HD21	2.50	0.52
2:HG:144:GLY:N	25:HG:501:GTP:O2B	2.41	0.52
3:HH:41:ASP:OD1	3:HH:42:LEU:N	2.43	0.52
3:HH:226:ASN:HA	3:HH:229:VAL:HG22	1.92	0.52
3:IF:385:PHE:HB3	3:IF:408:PHE:HZ	1.74	0.52
2:IG:8:HIS:HB2	2:IG:67:PHE:HD1	1.73	0.52
2:IG:174:ALA:HB3	2:IG:177:VAL:O	2.09	0.52
13:J2:23:GLN:NE2	13:J2:26:ALA:O	2.41	0.52
2:JE:229:ARG:NH1	2:JE:233:GLN:HG2	2.24	0.52
2:JE:286:LEU:HG	2:JE:373:ARG:HH11	1.73	0.52
3:JF:152:ILE:HD13	3:JF:155:ILE:HD11	1.92	0.52
3:KD:245:GLN:HE22	2:KE:15:GLN:NE2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:174:ALA:HB3	2:KE:177:VAL:O	2.09	0.52
2:KG:89:PRO:HD2	2:LG:280:LYS:HZ3	1.74	0.52
2:KG:261:PRO:HA	3:KH:394:PHE:CE1	2.44	0.52
2:KI:33:ASP:OD1	2:KI:34:GLY:N	2.42	0.52
2:KI:183:GLU:HA	2:KI:186:ASN:HD22	1.73	0.52
2:KI:254:GLU:N	2:KI:254:GLU:OE1	2.38	0.52
15:L2:242:SER:HB2	15:L2:246:LYS:NZ	2.25	0.52
3:LD:318:ARG:NE	3:LD:356:ILE:O	2.30	0.52
3:LF:331:LEU:HD21	2:LG:177:VAL:HG22	1.91	0.52
2:LG:144:GLY:HA3	25:LG:501:GTP:O3G	2.09	0.52
2:LI:234:ILE:O	2:LI:238:ILE:HG23	2.10	0.52
2:MG:75:VAL:HG23	2:MG:92:LEU:HD12	1.91	0.52
2:MG:398:MET:HA	2:MG:401:LYS:HG2	1.92	0.52
2:MI:54:SER:OG	2:MI:64:ARG:NH2	2.38	0.52
2:MI:116:ASP:HB2	17:N3:93:LEU:HG	1.91	0.52
2:MI:414:GLU:N	2:MI:414:GLU:OE1	2.43	0.52
3:NF:215:LEU:HD13	3:NF:217:LEU:HD21	1.91	0.52
3:NF:286:VAL:HG12	3:NF:329:GLN:HG3	1.91	0.52
2:NG:370:LYS:O	2:NG:372:GLN:NE2	2.42	0.52
3:NH:247:ASN:HB3	3:NH:252:LYS:HD2	1.90	0.52
2:NI:108:TYR:O	2:NI:112:LYS:NZ	2.27	0.52
2:OE:240:ALA:HA	2:OE:243:ARG:HB2	1.92	0.52
2:OE:332:ILE:HA	2:OE:335:ILE:HD12	1.91	0.52
3:OF:372:THR:HG21	3:OF:426:GLN:HG3	1.92	0.52
3:OH:49:VAL:HG13	3:OH:50:TYR:CD1	2.44	0.52
3:OH:189:VAL:HA	3:OH:192:LEU:HB2	1.91	0.52
3:OH:212:PHE:O	3:OH:216:LYS:NZ	2.30	0.52
3:OH:305:PRO:HB2	3:OH:310:TYR:CE1	2.43	0.52
3:OH:347:ASN:O	3:OH:350:LYS:NZ	2.43	0.52
2:OI:25:CYS:HB2	2:OI:30:ILE:HB	1.91	0.52
2:OI:229:ARG:HE	2:OI:368:LEU:HD22	1.74	0.52
19:P1:261:MET:HG3	20:Q1:1501:LEU:HD23	1.91	0.52
19:P2:81:SER:O	19:P2:93:ILE:HA	2.10	0.52
3:PF:257:MET:HB3	3:PF:370:ASN:ND2	2.23	0.52
3:PH:117:LEU:HD13	3:PH:121:ARG:HH22	1.73	0.52
2:PI:30:ILE:HD12	2:PI:61:HIS:CE1	2.45	0.52
2:QG:392:ASP:OD1	2:QG:393:HIS:N	2.43	0.52
3:QH:148:GLY:O	3:QH:152:ILE:HG12	2.09	0.52
2:QI:230:LEU:O	2:QI:234:ILE:HG12	2.10	0.52
2:RE:22:GLU:HG2	2:RE:83:TYR:CE2	2.45	0.52
3:RF:12:CYS:SG	25:RF:501:GTP:H5'	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:289:LEU:HD21	3:RF:363:MET:HB3	1.91	0.52
3:RF:386:THR:O	3:RF:390:ARG:NH1	2.43	0.52
2:RI:52:PHE:HZ	2:RI:239:THR:HB	1.73	0.52
2:RI:103:TYR:CD1	2:RI:189:LEU:HD23	2.45	0.52
3:SF:67:ASP:OD1	3:SF:68:LEU:N	2.42	0.52
3:SJ:139:LEU:N	3:SJ:168:SER:OG	2.43	0.52
2:TI:368:LEU:H	2:TI:368:LEU:HD23	1.75	0.52
3:TJ:200:TYR:OH	3:TJ:236:VAL:HG21	2.09	0.52
2:UE:9:VAL:HG22	2:UE:146:GLY:HA2	1.91	0.52
2:UG:285:GLN:NE2	2:UG:286:LEU:O	2.43	0.52
3:VD:235:GLY:HA3	3:VD:366:THR:HG21	1.92	0.52
2:VE:415:GLU:OE1	2:VE:415:GLU:N	2.32	0.52
2:VG:301:GLN:N	2:VG:301:GLN:OE1	2.43	0.52
2:VG:311:LYS:NZ	2:VG:343:PHE:O	2.41	0.52
3:VH:101:TRP:CE3	3:VH:187:LEU:HD13	2.45	0.52
2:WE:24:TYR:HA	2:WE:27:GLU:OE1	2.10	0.52
2:WE:234:ILE:O	2:WE:237:SER:OG	2.23	0.52
2:WG:130:THR:HB	23:XK:74:LYS:HG2	1.92	0.52
3:WH:211:CYS:SG	3:WH:220:PRO:HG3	2.49	0.52
22:XE:86:TYR:HA	22:XE:107:ASN:ND2	2.25	0.52
22:XE:93:VAL:HG12	22:XE:151:THR:HA	1.92	0.52
22:XE:94:LEU:HB2	22:XE:152:LEU:HD11	1.92	0.52
23:XK:107:TYR:HA	23:XK:110:PHE:HD2	1.72	0.52
24:YN:75:GLU:HA	24:YN:78:LYS:HG2	1.91	0.52
1:A2:149:LEU:HD21	12:I2:58:GLU:HG3	1.91	0.52
2:AE:214:ARG:NH2	17:N2:92:ILE:HD11	2.24	0.52
2:AG:27:GLU:HB3	2:AG:361:THR:HG21	1.92	0.52
2:AG:184:PRO:HB2	2:AG:395:PHE:HD1	1.74	0.52
3:AH:280:GLN:HB2	3:MH:58:LYS:NZ	2.24	0.52
4:B3:116:CYS:SG	4:B3:394:ARG:NH2	2.76	0.52
4:B8:136:GLU:HB3	4:B8:261:THR:HG22	1.90	0.52
3:BH:77:ARG:HD3	3:BH:90:PHE:HE2	1.75	0.52
3:BH:233:MET:O	3:BH:236:VAL:HG12	2.09	0.52
5:C3:236:HIS:HA	5:C3:239:LYS:HD2	1.91	0.52
2:CG:214:ARG:NH1	2:CG:215:ARG:HG3	2.25	0.52
2:CI:84:ARG:HG2	2:CI:85:GLN:N	2.25	0.52
6:D7:337:ALA:O	6:D7:340:LYS:HG2	2.09	0.52
6:D9:255:GLU:OE1	6:D9:255:GLU:N	2.31	0.52
2:DE:390:ARG:O	2:DE:394:LYS:HG2	2.10	0.52
3:DF:172:SER:HB3	3:DF:175:VAL:O	2.08	0.52
3:EF:275:SER:O	3:EF:279:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:410:ASP:OD2	8:F3:145:ARG:HD2	2.09	0.52
8:F2:425:ASP:HA	8:F2:428:GLN:HE21	1.74	0.52
8:F7:369:PHE:O	8:F7:373:ASN:ND2	2.42	0.52
2:FE:74:VAL:O	2:FE:77:GLU:HG3	2.09	0.52
3:FF:49:VAL:HG13	3:FF:50:TYR:CD2	2.45	0.52
3:FF:350:LYS:HZ1	2:FG:181:VAL:HG13	1.75	0.52
2:FG:7:ILE:HD13	2:FG:66:VAL:HB	1.90	0.52
9:G1:103:PHE:CD2	9:G1:179:LYS:HE3	2.44	0.52
10:G5:259:THR:OG1	10:G5:281:ARG:O	2.20	0.52
10:G5:546:GLU:OE1	10:G5:546:GLU:N	2.40	0.52
2:GE:324:VAL:HB	2:GE:326:LYS:HE2	1.92	0.52
3:GF:253:LEU:O	3:GF:257:MET:HG2	2.10	0.52
11:H3:227:ARG:HH22	11:H3:231:VAL:HG23	1.75	0.52
11:H4:247:PHE:O	11:H4:251:GLN:HG2	2.10	0.52
11:H4:290:PRO:HG2	11:H4:315:ARG:HH11	1.75	0.52
3:HD:378:PHE:HE1	3:HD:419:VAL:HG22	1.74	0.52
3:HF:276:ARG:NE	3:HF:276:ARG:O	2.42	0.52
2:HG:295:CYS:HA	2:HG:300:ASN:HD22	1.74	0.52
3:IF:335:ASN:OD1	3:IF:336:LYS:N	2.43	0.52
2:IG:398:MET:HE1	2:IG:401:LYS:HD2	1.90	0.52
2:II:89:PRO:HD3	3:JH:281:TYR:CD2	2.44	0.52
2:II:273:ALA:HB2	2:II:295:CYS:HB3	1.91	0.52
3:JD:10:GLY:O	3:JD:14:ASN:ND2	2.42	0.52
14:K2:200:VAL:HA	14:K2:203:LYS:HE2	1.90	0.52
14:K3:385:ARG:NH2	2:KI:130:THR:HA	2.21	0.52
3:KF:372:THR:HG21	3:KF:426:GLN:HG3	1.90	0.52
2:KG:173:PRO:HG3	2:KG:183:GLU:OE2	2.08	0.52
2:KG:306:ASP:OD2	2:KG:308:ARG:HB2	2.10	0.52
2:KG:346:TRP:HH2	3:KH:391:ARG:HB2	1.74	0.52
15:L2:27:TYR:OH	2:ME:389:ALA:HB2	2.10	0.52
15:L3:186:LYS:HE2	15:L3:252:ILE:HG22	1.91	0.52
3:LD:174:LYS:N	3:LD:205:GLU:OE2	2.42	0.52
3:LD:246:LEU:HB3	3:LD:353:VAL:O	2.10	0.52
3:LD:278:SER:HA	3:LD:281:TYR:HB2	1.90	0.52
2:LG:166:LYS:O	2:LG:199:ASP:HB2	2.10	0.52
3:LH:176:SER:O	3:LH:178:THR:N	2.42	0.52
2:NE:119:LEU:HD23	2:NE:122:ILE:HD11	1.92	0.52
3:NF:70:PRO:HA	3:NF:73:MET:SD	2.50	0.52
2:NG:53:PHE:CG	2:NG:61:HIS:HB3	2.45	0.52
3:NH:304:ASP:HB3	3:NH:307:HIS:CE1	2.45	0.52
3:NH:330:MET:HA	3:NH:333:VAL:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:O1:54:PRO:HB2	18:O1:57:LYS:HZ2	1.74	0.52
3:OF:130:LEU:HB3	3:OF:162:ARG:NH1	2.23	0.52
2:OG:214:ARG:HH12	2:OG:215:ARG:HG3	1.75	0.52
2:PG:144:GLY:N	25:PG:501:GTP:O2B	2.41	0.52
3:PH:415:MET:O	3:PH:419:VAL:HG23	2.10	0.52
20:Q2:1361:ALA:HA	20:Q2:1364:LEU:HD12	1.92	0.52
20:Q2:1449:HIS:CE1	20:Q2:1450:CYS:HG	2.27	0.52
2:QE:325:PRO:HA	2:QE:328:VAL:HB	1.90	0.52
2:QG:230:LEU:O	2:QG:234:ILE:HG12	2.09	0.52
3:QH:142:GLY:N	25:QH:501:GTP:O3B	2.39	0.52
2:RG:326:LYS:NZ	3:RH:219:THR:HA	2.24	0.52
3:RH:416:ASN:HA	3:RH:419:VAL:HG23	1.90	0.52
2:RI:245:ASP:OD1	2:RI:249:ASN:ND2	2.33	0.52
3:RJ:172:SER:OG	3:RJ:205:GLU:OE2	2.19	0.52
2:SG:211:ASP:O	2:SG:214:ARG:NH1	2.42	0.52
2:SI:331:ALA:O	2:SI:334:THR:OG1	2.19	0.52
3:SJ:31:ASP:OD2	3:SJ:33:THR:OG1	2.27	0.52
3:TF:81:PHE:O	3:TF:84:ILE:HG22	2.09	0.52
3:TF:324:LYS:NZ	2:TG:222:PRO:O	2.23	0.52
2:TG:232:GLY:HA2	2:TG:235:VAL:HG12	1.90	0.52
3:TH:46:ARG:NH2	3:TH:243:PRO:HD3	2.25	0.52
3:UD:258:VAL:O	2:UE:407:TRP:NE1	2.42	0.52
2:UE:101:ASN:HA	2:UE:144:GLY:HA2	1.91	0.52
2:UE:260:VAL:HG23	2:UE:265:ILE:O	2.09	0.52
2:UE:270:ALA:HA	2:UE:377:MET:O	2.10	0.52
2:UE:388:TRP:HB3	2:UE:429:GLU:OE2	2.10	0.52
2:UG:117:LEU:O	2:UG:121:ARG:HG2	2.09	0.52
3:UH:8:GLN:HG2	3:UH:65:LEU:HD13	1.92	0.52
3:UH:111:GLU:HG2	3:UH:112:LEU:HD12	1.92	0.52
3:UH:216:LYS:HB2	3:UH:276:ARG:HH11	1.74	0.52
2:VG:397:LEU:O	2:VG:401:LYS:HG2	2.08	0.52
2:WG:1:MET:N	2:WG:130:THR:OG1	2.42	0.52
3:WH:28:HIS:HA	3:WH:43:GLN:OE1	2.08	0.52
3:WH:258:VAL:HB	2:WI:407:TRP:CZ2	2.41	0.52
22:XD:124:ARG:HD3	22:XD:124:ARG:H	1.74	0.52
24:YI:6:GLU:OE1	24:YI:9:ARG:NH1	2.43	0.52
24:YK:137:VAL:HG13	24:YK:138:VAL:HG13	1.91	0.52
2:AE:283:HIS:CE1	2:ME:89:PRO:HD3	2.45	0.52
2:AI:282:TYR:OH	9:G2:85:PHE:O	2.22	0.52
4:B3:80:LYS:O	4:B3:83:THR:OG1	2.25	0.52
4:B7:293:LEU:HD13	4:B7:366:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B8:123:ARG:HH12	4:B8:383:THR:HA	1.74	0.52
2:BI:154:MET:HA	2:BI:157:LEU:HG	1.92	0.52
5:C7:182:GLU:HA	5:C7:185:LEU:HD12	1.92	0.52
2:CI:172:TYR:CD1	2:CI:173:PRO:HD2	2.44	0.52
6:D3:182:LEU:O	6:D3:186:ILE:HG12	2.10	0.52
6:D4:372:ASN:OD1	6:D4:373:ALA:N	2.43	0.52
6:D9:59:ASN:O	6:D9:63:ARG:HG2	2.10	0.52
3:DD:331:LEU:HD21	2:DE:177:VAL:HG22	1.92	0.52
7:E2:174:GLN:O	7:E2:175:ARG:HG2	2.09	0.52
2:EG:88:HIS:CE1	2:EG:121:ARG:HH22	2.28	0.52
2:EG:215:ARG:HH22	2:EG:300:ASN:HA	1.74	0.52
2:EG:264:ARG:HG3	2:EG:265:ILE:H	1.73	0.52
8:F2:175:ARG:O	8:F2:178:GLU:HG3	2.09	0.52
8:F3:102:GLN:HA	8:F3:105:ASN:ND2	2.25	0.52
8:F7:401:ARG:HA	8:F7:401:ARG:CZ	2.40	0.52
2:FE:66:VAL:HA	2:FE:91:GLN:HE21	1.74	0.52
2:FE:399:TYR:O	2:FE:402:ARG:NH1	2.43	0.52
2:FG:308:ARG:NH2	2:FG:340:THR:O	2.42	0.52
10:G5:434:LEU:HB2	10:G5:529:THR:HG23	1.90	0.52
10:G5:647:ARG:H	10:G5:649:LYS:HZ2	1.58	0.52
3:GD:411:ALA:O	3:GD:415:MET:HG2	2.10	0.52
11:H3:214:GLN:HB2	11:H3:244:MET:CE	2.40	0.52
3:HD:12:CYS:HA	25:HD:501:GTP:N2	2.25	0.52
2:HE:8:HIS:HD2	2:HE:67:PHE:CE1	2.28	0.52
2:HE:390:ARG:HA	2:HE:393:HIS:CD2	2.45	0.52
2:HG:90:GLU:HG2	2:HG:121:ARG:HH22	1.74	0.52
2:HG:234:ILE:HD11	2:HG:272:TYR:HB2	1.91	0.52
3:HH:70:PRO:HA	3:HH:73:MET:HE2	1.90	0.52
3:IH:275:SER:N	3:IH:278:SER:OG	2.41	0.52
2:II:265:ILE:HD12	2:II:432:TYR:CE1	2.45	0.52
2:JE:70:LEU:HB3	2:JE:97:GLU:O	2.10	0.52
2:JE:102:ASN:ND2	2:JE:105:ARG:HB2	2.25	0.52
2:JE:260:VAL:O	3:JF:397:TRP:HH2	1.93	0.52
3:JF:187:LEU:HD21	3:JF:408:PHE:HE1	1.73	0.52
3:KD:270:PHE:O	3:KD:298:ASN:ND2	2.33	0.52
2:KG:213:CYS:SG	2:KG:222:PRO:HG3	2.49	0.52
2:LE:160:ASP:OD1	2:LE:161:TYR:N	2.43	0.52
3:LF:275:SER:N	3:LF:278:SER:OG	2.43	0.52
3:LF:350:LYS:HZ1	2:LG:181:VAL:HG13	1.75	0.52
3:LH:21:TRP:CZ3	3:LH:61:PRO:HB3	2.44	0.52
16:M3:98:HIS:ND1	16:M3:101:ASP:OD1	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:65:ALA:O	2:ME:91:GLN:NE2	2.43	0.52
2:ME:399:TYR:O	2:ME:402:ARG:NH1	2.43	0.52
3:MF:318:ARG:HA	3:MF:354:CYS:O	2.08	0.52
3:MH:313:VAL:HG23	3:MH:349:VAL:HA	1.92	0.52
3:NF:182:PRO:HB2	3:NF:388:MET:HE1	1.92	0.52
3:OD:374:ILE:HA	3:OD:377:LEU:HD13	1.91	0.52
2:OG:101:ASN:HB3	2:OG:182:VAL:HG11	1.91	0.52
2:OG:291:ILE:HD12	2:OG:375:VAL:HG12	1.91	0.52
3:OH:21:TRP:CZ3	3:OH:51:TYR:HE1	2.28	0.52
2:OI:85:GLN:NE2	24:YN:123:ASN:OD1	2.42	0.52
2:OI:320:ARG:HG3	2:OI:356:ASN:HB3	1.91	0.52
19:P2:145:ARG:HG3	19:P2:145:ARG:O	2.08	0.52
3:PH:334:GLN:HA	3:PH:341:PHE:CE2	2.45	0.52
3:QF:193:VAL:HG21	3:QF:262:ARG:HH21	1.74	0.52
2:QI:3:GLU:OE2	2:QI:131:GLY:N	2.42	0.52
2:RE:21:TRP:CE3	2:RE:24:TYR:HD2	2.28	0.52
3:RF:8:GLN:HB3	3:RF:64:VAL:O	2.10	0.52
3:SF:141:GLY:HA3	25:SF:501:GTP:H5''	1.91	0.52
3:SF:234:SER:O	3:SF:238:THR:HG23	2.10	0.52
3:SH:189:VAL:HG13	3:SH:415:MET:HE1	1.92	0.52
2:SI:224:TYR:CE1	25:SI:501:GTP:C5	2.97	0.52
3:TF:137:HIS:O	3:TF:168:SER:HA	2.10	0.52
3:TF:357:PRO:O	3:TF:359:ARG:NH2	2.42	0.52
2:TI:8:HIS:HE2	2:TI:21:TRP:HZ2	1.58	0.52
2:TI:288:VAL:HA	2:TI:291:ILE:HG12	1.92	0.52
3:TJ:12:CYS:HA	25:TJ:501:GTP:HN22	1.74	0.52
3:UD:67:ASP:HB3	3:UD:73:MET:HE1	1.92	0.52
3:UD:378:PHE:CD1	3:UD:419:VAL:HG22	2.45	0.52
2:UE:208:ALA:H	2:UE:304:LYS:HZ1	1.56	0.52
2:UE:214:ARG:NH1	2:UE:215:ARG:HG3	2.25	0.52
2:UE:236:SER:O	2:UE:243:ARG:NH1	2.41	0.52
2:UE:351:PHE:CE2	3:UF:175:VAL:HG23	2.45	0.52
2:UG:99:ALA:HA	2:UG:105:ARG:HH11	1.74	0.52
3:VH:313:VAL:HG23	3:VH:349:VAL:HA	1.92	0.52
2:WE:255:PHE:O	2:WE:259:LEU:HB2	2.10	0.52
2:WE:288:VAL:HG21	2:WE:327:ASP:HB2	1.91	0.52
2:WG:257:THR:HG22	3:WH:397:TRP:CD1	2.44	0.52
3:WH:269:GLY:O	3:WH:367:PHE:N	2.43	0.52
2:WI:75:VAL:HG22	2:WI:79:ARG:HH21	1.74	0.52
23:XL:130:ILE:HG13	23:XL:131:PRO:HD3	1.92	0.52
24:YM:44:SER:HB3	24:YM:111:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:6:GLU:HA	24:YN:9:ARG:HE	1.73	0.52
24:YN:152:ILE:HA	24:YN:155:SER:HB2	1.91	0.52
1:A2:135:GLU:HB3	1:A2:260:VAL:HG12	1.92	0.52
2:AE:262:TYR:CE1	3:AF:393:ALA:HA	2.43	0.52
2:AG:254:GLU:HA	2:AG:257:THR:OG1	2.09	0.52
4:B3:200:SER:OG	4:B3:201:LEU:N	2.42	0.52
2:BG:88:HIS:HB3	2:BG:91:GLN:HB3	1.91	0.52
2:BG:212:ILE:HA	2:BG:215:ARG:HB2	1.91	0.52
3:BH:310:TYR:HB2	3:BH:341:PHE:HD1	1.75	0.52
3:CF:170:VAL:HG11	3:CF:377:LEU:HD11	1.90	0.52
3:CH:378:PHE:CE1	3:CH:419:VAL:HG22	2.45	0.52
3:CJ:11:GLN:HE21	25:CJ:501:GTP:H5''	1.75	0.52
2:DG:392:ASP:OD1	2:DG:393:HIS:N	2.42	0.52
3:ED:117:LEU:HA	3:ED:120:VAL:HG22	1.92	0.52
3:ED:285:THR:O	3:ED:288:GLU:HG3	2.10	0.52
3:EF:276:ARG:NE	3:EF:276:ARG:O	2.43	0.52
2:EG:254:GLU:OE1	2:EG:254:GLU:N	2.42	0.52
3:FF:217:LEU:HD11	3:FF:220:PRO:HB3	1.92	0.52
3:FF:291:GLN:NE2	3:FF:295:ASP:OD1	2.42	0.52
2:FG:264:ARG:O	2:FG:266:HIS:ND1	2.37	0.52
3:FH:216:LYS:O	3:FH:276:ARG:NH2	2.41	0.52
2:GE:325:PRO:HA	2:GE:328:VAL:HB	1.91	0.52
25:GE:501:GTP:N3	25:GE:501:GTP:O4'	2.39	0.52
3:GH:325:GLU:O	3:GH:329:GLN:HG2	2.10	0.52
11:H4:4:THR:OG1	11:H4:5:GLN:OE1	2.21	0.52
2:HE:325:PRO:O	2:HE:329:ASN:ND2	2.42	0.52
13:J3:69:GLN:N	13:J3:69:GLN:OE1	2.42	0.52
13:J3:181:LYS:O	13:J3:185:LEU:HG	2.10	0.52
2:JE:47:ASP:OD1	2:JE:48:SER:N	2.40	0.52
2:JE:119:LEU:HB3	2:JE:123:ARG:NH2	2.25	0.52
3:JH:8:GLN:NE2	3:JH:17:GLY:HA3	2.24	0.52
14:K2:326:GLN:O	14:K2:330:ASN:ND2	2.43	0.52
14:K3:328:ILE:HG13	14:K3:329:SER:H	1.75	0.52
14:K4:237:TYR:CZ	14:K4:293:CYS:HB3	2.44	0.52
2:KG:68:VAL:HG12	2:KG:93:ILE:HB	1.91	0.52
3:KH:249:ASP:OD1	3:KH:250:LEU:N	2.42	0.52
3:KH:396:HIS:HA	3:KH:399:THR:HG22	1.92	0.52
15:L2:220:SER:OG	15:L2:223:LYS:HD3	2.10	0.52
3:LD:3:GLU:OE2	3:LD:129:CYS:N	2.43	0.52
2:LG:167:LEU:HD13	2:LG:200:CYS:HB2	1.92	0.52
3:LH:299:MET:HE1	3:LH:301:ALA:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LI:224:TYR:CE1	25:LI:501:GTP:C5	2.93	0.52
2:ME:90:GLU:OE1	2:ME:90:GLU:N	2.35	0.52
2:MG:8:HIS:CD2	2:MG:138:PHE:HD2	2.28	0.52
3:MH:12:CYS:SG	3:MH:13:GLY:N	2.83	0.52
3:MH:198:GLU:HG2	3:MH:266:PHE:CD2	2.44	0.52
2:NE:169:PHE:CE1	2:NE:202:PHE:HD2	2.27	0.52
3:NF:105:HIS:HA	3:NF:150:LEU:HD11	1.92	0.52
3:NF:166:THR:O	3:NF:199:THR:HA	2.09	0.52
3:NF:267:MET:SD	3:NF:374:ILE:HD11	2.50	0.52
2:NG:119:LEU:HD23	2:NG:122:ILE:HD11	1.90	0.52
2:NG:269:LEU:O	2:NG:378:LEU:HA	2.10	0.52
2:OE:15:GLN:NE2	2:OE:224:TYR:CE2	2.78	0.52
3:OF:226:ASN:HA	3:OF:229:VAL:HG22	1.90	0.52
3:OF:246:LEU:HD22	3:OF:354:CYS:HA	1.92	0.52
3:OH:86:ARG:NE	3:OH:86:ARG:HA	2.25	0.52
3:OH:198:GLU:HA	3:OH:266:PHE:HE2	1.75	0.52
2:OI:121:ARG:O	2:OI:125:LEU:HG	2.09	0.52
19:P2:383:MET:HG3	19:P2:388:SER:HB2	1.92	0.52
2:PE:224:TYR:HE2	25:PE:501:GTP:O6	1.92	0.52
3:PH:419:VAL:O	3:PH:423:GLN:HG2	2.09	0.52
2:PI:227:LEU:O	2:PI:230:LEU:HG	2.09	0.52
2:PI:389:ALA:O	2:PI:393:HIS:ND1	2.26	0.52
2:QE:115:VAL:HA	2:QE:118:VAL:HG22	1.91	0.52
2:QE:331:ALA:O	2:QE:334:THR:OG1	2.24	0.52
3:QF:2:ARG:HB3	3:QF:131:GLN:CD	2.30	0.52
3:QF:155:ILE:HA	3:QF:158:GLU:HB2	1.91	0.52
2:QG:88:HIS:O	2:QG:91:GLN:HG3	2.08	0.52
2:QI:30:ILE:HG13	2:QI:53:PHE:HE2	1.75	0.52
3:RF:407:GLU:O	3:RF:410:GLU:HG3	2.09	0.52
2:RI:31:GLN:CD	2:RI:37:PRO:HD3	2.29	0.52
2:RI:291:ILE:HD11	2:RI:319:TYR:HE1	1.74	0.52
2:SE:330:ALA:O	2:SE:334:THR:HG23	2.09	0.52
3:SF:280:GLN:OE1	3:SF:280:GLN:N	2.39	0.52
3:SJ:19:LYS:NZ	3:SJ:223:GLY:O	2.43	0.52
3:SJ:199:THR:HB	3:SJ:264:HIS:O	2.09	0.52
3:TF:178:THR:HB	3:TF:181:GLU:HB2	1.90	0.52
3:TF:207:LEU:HA	3:TF:210:ILE:HG12	1.91	0.52
3:TH:8:GLN:HB3	3:TH:65:LEU:HA	1.90	0.52
2:TI:141:PHE:HD2	2:TI:173:PRO:HD3	1.75	0.52
3:TJ:290:THR:HG21	3:TJ:329:GLN:OE1	2.08	0.52
3:UD:11:GLN:HG3	25:UD:501:GTP:PA	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:249:ASP:OD2	3:UD:251:ARG:HB3	2.10	0.52
2:UG:349:THR:HA	3:UH:175:VAL:HG13	1.92	0.52
3:UH:50:TYR:O	3:UH:62:ARG:NE	2.36	0.52
3:UH:132:GLY:HA2	3:UH:162:ARG:HB3	1.92	0.52
3:VD:31:ASP:OD1	3:VD:35:THR:N	2.42	0.52
3:VF:56:GLY:O	3:VF:58:LYS:NZ	2.42	0.52
2:WG:3:GLU:OE2	2:WG:131:GLY:N	2.26	0.52
3:WH:128:ASP:HA	22:XE:17:ILE:HG13	1.91	0.52
2:WI:272:TYR:CZ	2:WI:274:PRO:HG2	2.45	0.52
22:XC:39:ASP:OD2	22:XC:41:ASP:N	2.40	0.52
22:XE:85:LYS:HB3	22:XE:159:ASN:HB3	1.91	0.52
23:XJ:88:ASP:OD1	23:XJ:90:HIS:N	2.43	0.52
23:XL:207:ASP:O	23:XL:210:GLN:NE2	2.43	0.52
2:AE:171:ILE:HG13	2:AE:171:ILE:O	2.09	0.52
2:AE:384:ILE:HD11	2:AE:432:TYR:HE2	1.74	0.52
2:AG:342:GLN:OE1	2:AG:342:GLN:N	2.32	0.52
3:AH:407:GLU:OE1	3:AH:407:GLU:N	2.39	0.52
4:B2:134:GLU:O	4:B2:138:LEU:HG	2.10	0.52
2:BE:262:TYR:HE1	3:BF:393:ALA:HA	1.75	0.52
3:BF:273:LEU:H	3:BF:292:GLN:HE22	1.58	0.52
2:BG:2:ARG:CZ	2:BG:242:LEU:HA	2.40	0.52
2:BG:145:THR:OG1	25:BG:501:GTP:O1B	2.28	0.52
2:BG:189:LEU:HD11	2:BG:418:PHE:CE1	2.45	0.52
5:C3:132:TYR:O	5:C3:136:ARG:HG2	2.10	0.52
5:C3:179:ARG:O	5:C3:183:ARG:NH1	2.43	0.52
5:C8:201:HIS:CE1	5:C8:472:LYS:HG3	2.44	0.52
2:CI:230:LEU:O	2:CI:233:GLN:HG3	2.09	0.52
6:D8:131:MET:HE3	6:D8:275:SER:HB2	1.90	0.52
3:DF:31:ASP:OD2	3:DF:35:THR:OG1	2.27	0.52
3:DF:40:SER:O	3:DF:43:GLN:HG2	2.10	0.52
3:DF:285:THR:O	3:DF:288:GLU:HG3	2.10	0.52
3:DH:131:GLN:HB3	3:DH:163:ILE:HD12	1.91	0.52
2:EE:417:GLU:OE1	2:EE:417:GLU:N	2.24	0.52
2:EG:260:VAL:O	3:EH:397:TRP:HH2	1.93	0.52
3:EH:7:LEU:HD13	3:EH:64:VAL:HB	1.92	0.52
8:F2:244:ARG:HG3	8:F6:196:TYR:HE2	1.75	0.52
8:F6:279:PHE:HA	8:F7:393:GLN:HE22	1.75	0.52
3:FD:19:LYS:NZ	3:FD:223:GLY:O	2.43	0.52
3:FD:198:GLU:HG2	3:FD:266:PHE:CE2	2.44	0.52
2:FG:5:ILE:HB	2:FG:135:PHE:HD1	1.74	0.52
3:FH:192:LEU:O	3:FH:196:THR:HB	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:438:PHE:CE1	9:G1:453:GLU:HB2	2.45	0.52
2:GG:89:PRO:HD2	2:HG:280:LYS:HZ2	1.75	0.52
2:GG:213:CYS:HA	2:GG:217:LEU:HB2	1.92	0.52
2:GG:260:VAL:HG23	2:GG:265:ILE:O	2.10	0.52
3:GH:152:ILE:O	3:GH:156:ARG:HG3	2.09	0.52
3:GH:216:LYS:HB3	3:GH:276:ARG:NH2	2.25	0.52
3:HH:287:PRO:O	3:HH:290:THR:OG1	2.28	0.52
2:HI:145:THR:OG1	25:HI:501:GTP:O1B	2.27	0.52
2:HI:172:TYR:CD1	2:HI:173:PRO:HD2	2.45	0.52
2:IE:119:LEU:O	2:IE:123:ARG:HG2	2.09	0.52
3:IF:392:LYS:O	3:IF:395:LEU:HD22	2.10	0.52
3:IH:51:TYR:HB3	3:IH:59:TYR:HB3	1.91	0.52
3:IH:172:SER:HB3	3:IH:175:VAL:O	2.10	0.52
2:II:12:ALA:O	25:II:501:GTP:N1	2.42	0.52
2:JG:235:VAL:HA	2:JG:238:ILE:HG12	1.92	0.52
2:JG:427:ALA:HA	2:JG:430:LYS:HG2	1.92	0.52
3:JH:101:TRP:CE3	3:JH:187:LEU:HD13	2.44	0.52
14:K2:181:LEU:HA	14:K2:184:TYR:CD1	2.45	0.52
2:KE:125:LEU:HD13	2:KE:128:LEU:HD21	1.90	0.52
3:KF:19:LYS:O	3:KF:22:GLU:HG3	2.10	0.52
3:KH:293:MET:SD	3:KH:367:PHE:HB2	2.50	0.52
2:KI:402:ARG:HH11	21:R2:125:ARG:HD2	1.75	0.52
15:L3:70:LYS:NZ	2:LI:406:HIS:O	2.43	0.52
15:L3:80:ARG:NH2	2:LI:193:THR:HA	2.18	0.52
15:L3:221:VAL:N	15:L3:222:PRO:HD2	2.25	0.52
3:LD:275:SER:O	3:LD:279:GLN:NE2	2.34	0.52
3:LF:318:ARG:CZ	3:LF:358:PRO:HG3	2.40	0.52
3:LF:377:LEU:HD12	3:LF:377:LEU:H	1.75	0.52
2:LG:260:VAL:O	3:LH:397:TRP:HH2	1.92	0.52
3:LH:8:GLN:NE2	3:LH:63:ALA:HB1	2.22	0.52
2:LI:90:GLU:HG2	2:LI:121:ARG:NH2	2.25	0.52
3:MH:15:GLN:HG2	3:MH:222:TYR:CE2	2.44	0.52
2:NE:54:SER:N	2:NE:62:VAL:O	2.42	0.52
2:NE:155:GLU:OE2	2:NE:197:HIS:ND1	2.43	0.52
3:NF:117:LEU:O	3:NF:121:ARG:HG2	2.10	0.52
2:NG:178:SER:OG	2:NG:180:ALA:O	2.28	0.52
2:NI:101:ASN:HA	2:NI:144:GLY:CA	2.40	0.52
2:NI:408:TYR:HA	2:NI:411:GLU:HG3	1.92	0.52
18:O2:38:TYR:OH	20:Q2:1417:ARG:N	2.43	0.52
3:OD:131:GLN:O	3:OD:251:ARG:NH2	2.43	0.52
3:OD:280:GLN:N	3:OD:280:GLN:OE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:84:ARG:NH1	24:YK:126:SER:HA	2.18	0.52
3:OH:155:ILE:HA	3:OH:158:GLU:HB2	1.91	0.52
2:OI:11:GLN:HG3	25:OI:501:GTP:PB	2.50	0.52
19:P1:59:PHE:H	19:P1:101:ARG:CZ	2.23	0.52
19:P1:185:TRP:CZ3	19:P1:196:PRO:HB3	2.44	0.52
19:P1:560:PHE:CE1	19:P1:572:TRP:HB2	2.45	0.52
19:P1:586:HIS:CE1	19:P1:612:LEU:HD13	2.44	0.52
19:P1:616:TYR:HD2	19:P1:619:ALA:HA	1.75	0.52
2:PE:35:GLN:HG2	2:PE:59:GLY:O	2.10	0.52
2:PG:151:SER:O	2:PG:154:MET:HG3	2.10	0.52
2:PG:269:LEU:O	2:PG:378:LEU:HA	2.10	0.52
2:PI:79:ARG:O	2:PI:84:ARG:HD2	2.10	0.52
20:Q1:1497:TYR:CZ	20:Q1:1510:PHE:HA	2.44	0.52
20:Q2:1378:GLU:O	20:Q2:1382:LEU:HG	2.10	0.52
2:QE:234:ILE:O	2:QE:237:SER:OG	2.21	0.52
3:QF:312:THR:OG1	3:QF:370:ASN:HB3	2.10	0.52
2:QG:272:TYR:HE1	2:QG:374:ALA:HB1	1.74	0.52
3:QH:150:LEU:O	3:QH:153:SER:OG	2.21	0.52
2:RE:254:GLU:OE1	2:RE:254:GLU:N	2.40	0.52
3:RH:11:GLN:HG3	25:RH:501:GTP:PA	2.50	0.52
2:RI:192:HIS:HA	2:RI:195:LEU:HD23	1.91	0.52
3:SF:2:ARG:HH22	3:SF:251:ARG:HH12	1.57	0.52
3:SH:186:THR:HB	3:SH:385:PHE:CZ	2.44	0.52
3:SJ:146:GLY:O	3:SJ:149:THR:OG1	2.24	0.52
3:TF:209:ASP:O	3:TF:213:ARG:HG2	2.09	0.52
3:TJ:311:LEU:HB2	3:TJ:370:ASN:O	2.10	0.52
3:UD:70:PRO:HA	3:UD:73:MET:HE3	1.92	0.52
2:UE:88:HIS:CE1	2:UE:121:ARG:HH22	2.27	0.52
2:UE:224:TYR:HA	2:UE:227:LEU:HB2	1.90	0.52
3:UF:201:CYS:O	3:UF:301:ALA:HB1	2.09	0.52
2:UG:137:ILE:HG22	2:UG:139:HIS:HD2	1.75	0.52
2:UG:192:HIS:CE1	2:UG:193:THR:HG23	2.45	0.52
3:VD:11:GLN:HG3	25:VD:501:GTP:PA	2.50	0.52
3:VD:325:GLU:OE1	2:VE:221:ARG:NH1	2.43	0.52
2:VE:166:LYS:O	2:VE:199:ASP:HB2	2.10	0.52
2:VG:54:SER:H	2:VG:62:VAL:H	1.57	0.52
2:VG:167:LEU:HD13	2:VG:200:CYS:HB2	1.90	0.52
2:VG:317:MET:O	2:VG:353:VAL:HA	2.09	0.52
2:VG:401:LYS:C	2:VG:402:ARG:HD3	2.30	0.52
3:VH:11:GLN:HA	3:VH:14:ASN:ND2	2.24	0.52
3:WH:275:SER:O	3:WH:279:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XE:137:SER:HA	22:XE:148:TYR:HB3	1.90	0.52
1:A2:138:LYS:O	1:A2:142:ILE:HG12	2.09	0.52
2:AG:90:GLU:OE2	2:BG:280:LYS:HE2	2.10	0.52
2:AI:88:HIS:HE1	2:AI:90:GLU:HG2	1.75	0.52
3:BF:11:GLN:HG3	25:BF:501:GTP:PA	2.50	0.52
3:BH:171:PRO:HG3	3:BH:181:GLU:OE2	2.10	0.52
5:C8:366:THR:O	5:C8:369:LEU:HG	2.10	0.52
5:C8:418:LEU:HD21	7:E2:112:HIS:HD2	1.75	0.52
3:CF:85:PHE:O	3:CF:86:ARG:NH2	2.43	0.52
2:CG:144:GLY:N	25:CG:501:GTP:O2B	2.42	0.52
3:CJ:360:GLY:HA3	9:G2:309:PRO:HB3	1.92	0.52
6:D4:389:ARG:O	6:D4:392:LYS:HG2	2.09	0.52
3:DD:152:ILE:HA	3:DD:155:ILE:HG22	1.91	0.52
2:DE:160:ASP:OD1	2:DE:161:TYR:N	2.43	0.52
3:DH:292:GLN:O	3:DH:298:ASN:ND2	2.41	0.52
3:ED:67:ASP:OD2	3:ED:72:THR:OG1	2.21	0.52
2:EE:88:HIS:CE1	2:EE:121:ARG:HH22	2.28	0.52
3:EF:148:GLY:HA2	3:EF:151:LEU:HG	1.92	0.52
3:EF:321:MET:O	11:H4:296:TYR:OH	2.26	0.52
8:F2:408:CYS:HA	8:F3:296:TRP:HH2	1.74	0.52
3:FH:426:GLN:NE2	3:FH:427:ASP:OD2	2.43	0.52
10:G5:596:ASP:O	10:G5:600:ILE:HG12	2.10	0.52
3:GD:423:GLN:HA	3:GD:426:GLN:HE21	1.75	0.52
3:GF:6:HIS:HE1	3:GF:8:GLN:HE21	1.58	0.52
2:GG:285:GLN:NE2	2:GG:287:SER:HB3	2.24	0.52
2:GG:338:LYS:HZ2	2:GG:340:THR:N	2.04	0.52
3:GH:341:PHE:HB3	3:GH:348:ASN:HD21	1.74	0.52
3:GH:374:ILE:HG22	3:GH:378:PHE:HD2	1.75	0.52
2:GI:221:ARG:N	2:GI:222:PRO:HD3	2.24	0.52
11:H3:295:ASN:OD1	11:H3:306:ARG:NH2	2.42	0.52
2:HE:26:LEU:HD11	2:HE:363:VAL:HG23	1.92	0.52
3:HH:3:GLU:OE1	3:HH:3:GLU:N	2.42	0.52
2:IE:254:GLU:N	2:IE:254:GLU:OE1	2.41	0.52
3:IF:233:MET:HA	3:IF:236:VAL:HG12	1.91	0.52
13:J2:155:TYR:O	13:J2:159:LEU:HG	2.09	0.52
2:JE:49:PHE:HB2	2:JE:53:PHE:HB2	1.90	0.52
3:JF:41:ASP:OD1	3:JF:42:LEU:N	2.42	0.52
2:JG:329:ASN:HA	2:JG:332:ILE:HG12	1.92	0.52
2:JG:411:GLU:OE2	2:JG:413:MET:HG3	2.10	0.52
3:JH:67:ASP:OD1	3:JH:68:LEU:N	2.40	0.52
14:K3:183:GLY:O	14:K3:190:LYS:NZ	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:185:ARG:HG3	14:K3:189:GLU:HG2	1.92	0.52
3:KF:275:SER:N	3:KF:278:SER:OG	2.37	0.52
2:KI:338:LYS:NZ	2:KI:339:ARG:H	2.08	0.52
2:KI:402:ARG:CD	21:R2:125:ARG:HD2	2.37	0.52
3:LD:8:GLN:HE21	3:LD:21:TRP:HE1	1.58	0.52
2:LG:6:SER:O	2:LG:65:ALA:HA	2.10	0.52
2:LG:215:ARG:HH12	2:LG:299:ALA:HB1	1.74	0.52
2:ME:251:ASP:HB3	2:ME:254:GLU:OE1	2.10	0.52
2:MI:81:GLY:O	2:MI:84:ARG:NH1	2.43	0.52
3:ND:117:LEU:HA	3:ND:120:VAL:HG22	1.91	0.52
2:NG:26:LEU:HD22	2:NG:363:VAL:HG23	1.91	0.52
2:OG:76:ASP:OD1	2:OG:79:ARG:NH1	2.39	0.52
2:OG:127:ASP:OD1	2:OG:128:LEU:N	2.43	0.52
2:PE:115:VAL:HG11	2:PE:152:LEU:HD22	1.92	0.52
2:PE:172:TYR:N	2:PE:204:VAL:O	2.40	0.52
20:Q2:1491:PHE:O	20:Q2:1495:GLU:HG2	2.10	0.52
3:QF:383:GLU:OE2	3:QF:384:GLN:NE2	2.43	0.52
3:QH:6:HIS:HB3	3:QH:21:TRP:HZ2	1.74	0.52
2:QI:295:CYS:HB2	2:QI:377:MET:HG2	1.92	0.52
2:RE:2:ARG:HG2	2:RE:242:LEU:HD23	1.92	0.52
2:RE:168:GLU:O	2:RE:201:ALA:HA	2.09	0.52
3:RF:309:ARG:NH2	3:RF:343:GLU:OE1	2.36	0.52
2:RG:30:ILE:HD13	2:RG:36:MET:HE3	1.92	0.52
2:RG:116:ASP:N	2:RG:116:ASP:OD1	2.42	0.52
2:RG:215:ARG:HH21	2:RG:300:ASN:HD21	1.56	0.52
2:RG:257:THR:HA	3:RH:397:TRP:CE2	2.45	0.52
2:RG:330:ALA:O	2:RG:334:THR:HG23	2.10	0.52
3:RH:141:GLY:CA	25:RH:501:GTP:H5''	2.39	0.52
3:RH:164:MET:HG2	3:RH:197:ASP:CG	2.30	0.52
3:RH:229:VAL:O	3:RH:232:THR:OG1	2.22	0.52
2:RI:230:LEU:O	2:RI:233:GLN:NE2	2.43	0.52
2:RI:324:VAL:HG23	2:RI:327:ASP:H	1.74	0.52
3:RJ:20:PHE:CZ	3:RJ:24:ILE:HD11	2.45	0.52
2:SE:33:ASP:OD1	2:SE:34:GLY:N	2.42	0.52
2:SG:209:ILE:HG21	2:SG:227:LEU:HG	1.92	0.52
3:SH:204:ASN:OD1	3:SH:205:GLU:N	2.43	0.52
2:SI:311:LYS:HE3	2:SI:344:VAL:HG12	1.91	0.52
3:TF:31:ASP:OD2	3:TF:33:THR:OG1	2.28	0.52
3:TF:274:THR:HG21	3:TF:279:GLN:HA	1.92	0.52
2:TG:3:GLU:OE2	2:TG:131:GLY:N	2.31	0.52
3:TH:5:VAL:HG22	3:TH:62:ARG:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:6:SER:HA	2:TI:136:LEU:HB2	1.92	0.52
3:TJ:12:CYS:SG	3:TJ:13:GLY:N	2.83	0.52
3:TJ:357:PRO:HB3	3:TJ:362:LYS:HA	1.91	0.52
2:UE:196:GLU:OE1	2:UE:196:GLU:N	2.26	0.52
3:UH:328:GLU:OE2	3:UH:329:GLN:NE2	2.43	0.52
3:VD:2:ARG:HB2	2:VE:96:LYS:NZ	2.24	0.52
2:VE:172:TYR:N	2:VE:204:VAL:O	2.18	0.52
2:VG:288:VAL:HA	2:VG:291:ILE:HG12	1.90	0.52
3:WF:221:THR:OG1	3:WF:224:ASP:N	2.43	0.52
2:WI:46:ASP:HA	2:WI:50:ASN:HB3	1.91	0.52
22:XD:48:GLU:OE2	22:XD:161:ARG:NE	2.42	0.52
23:XJ:130:ILE:O	23:XJ:134:ILE:HG12	2.10	0.52
23:XL:204:ASN:O	23:XL:208:LEU:HG	2.10	0.52
24:YN:112:SER:HA	24:YN:135:GLY:HA3	1.92	0.52
1:A3:58:ASP:HA	1:A3:61:LYS:HE2	1.91	0.52
2:AE:271:THR:OG1	2:AE:301:GLN:HG3	2.09	0.52
2:AI:28:HIS:HE1	2:AI:243:ARG:HD2	1.75	0.52
2:AI:304:LYS:HB3	17:N3:82:HIS:HA	1.91	0.52
2:AI:392:ASP:HB2	2:AI:422:ARG:NH1	2.25	0.52
4:B2:355:LYS:HG3	4:B3:45:LEU:HD23	1.91	0.52
4:B3:92:LEU:HD21	4:B3:236:SER:HB2	1.92	0.52
2:BI:186:ASN:OD1	2:BI:187:SER:N	2.43	0.52
5:C2:127:LEU:HG	5:C2:131:LYS:HE2	1.92	0.52
5:C3:230:GLN:HB3	5:C3:234:ARG:NH1	2.24	0.52
2:CG:390:ARG:HA	2:CG:393:HIS:NE2	2.25	0.52
6:D8:426:ASP:OD1	6:D8:427:ARG:N	2.43	0.52
3:DD:4:ILE:HD11	3:DD:131:GLN:HB2	1.92	0.52
3:DD:350:LYS:HE3	2:DE:181:VAL:H	1.74	0.52
2:DE:318:LEU:O	2:DE:375:VAL:HA	2.09	0.52
3:DF:60:VAL:HG23	3:DF:86:ARG:NH1	2.23	0.52
3:ED:31:ASP:OD2	3:ED:35:THR:OG1	2.23	0.52
3:ED:312:THR:HG22	3:ED:348:ASN:HB2	1.92	0.52
2:FE:89:PRO:HD2	2:GE:280:LYS:HZ2	1.75	0.52
3:FF:412:GLU:HA	3:FF:415:MET:HE2	1.92	0.52
3:FH:206:ALA:O	3:FH:210:ILE:HG12	2.10	0.52
3:FH:314:ALA:HA	3:FH:350:LYS:O	2.09	0.52
9:G2:273:VAL:O	9:G2:294:ARG:HA	2.10	0.52
3:GD:12:CYS:SG	25:GD:501:GTP:H5'	2.50	0.52
3:GF:172:SER:HB3	3:GF:175:VAL:O	2.09	0.52
11:H4:16:TYR:CE1	11:H4:24:TYR:HE1	2.28	0.52
3:HD:11:GLN:HG3	25:HD:501:GTP:O5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:70:LEU:HB3	2:IE:97:GLU:O	2.09	0.52
2:IG:351:PHE:CZ	3:IH:175:VAL:HB	2.45	0.52
2:II:10:GLY:O	2:II:13:GLY:N	2.42	0.52
2:II:234:ILE:O	2:II:237:SER:OG	2.23	0.52
2:II:266:HIS:O	2:II:268:PRO:HD3	2.11	0.52
3:JF:350:LYS:HE3	2:JG:181:VAL:N	2.19	0.52
3:JH:118:ASP:OD1	3:JH:121:ARG:NH1	2.43	0.52
14:K2:466:ARG:HD3	14:K2:469:HIS:HE1	1.75	0.52
3:KD:11:GLN:HG3	25:KD:501:GTP:O5'	2.09	0.52
3:KF:176:SER:O	3:KF:178:THR:N	2.43	0.52
2:KG:50:ASN:O	2:KG:64:ARG:NH1	2.43	0.52
2:KG:190:THR:O	2:KG:194:THR:OG1	2.23	0.52
2:KI:168:GLU:HG2	2:KI:201:ALA:HA	1.92	0.52
15:L3:120:LYS:O	15:L3:122:LYS:NZ	2.43	0.52
15:L3:148:LYS:H	15:L3:151:TYR:HE2	1.58	0.52
2:LE:168:GLU:OE1	2:LE:198:SER:OG	2.19	0.52
2:LE:256:GLN:O	2:LE:260:VAL:HG12	2.09	0.52
2:LE:391:LEU:HD23	2:LE:394:LYS:HZ1	1.75	0.52
2:LG:390:ARG:HA	2:LG:393:HIS:CD2	2.45	0.52
3:LH:39:ASP:OD1	3:LH:40:SER:N	2.38	0.52
2:ME:12:ALA:HB1	25:ME:501:GTP:C6	2.45	0.52
3:MH:190:HIS:NE2	3:MH:414:ASN:OD1	2.43	0.52
3:MH:310:TYR:N	3:MH:340:TYR:O	2.40	0.52
3:ND:322:SER:OG	3:ND:323:MET:SD	2.68	0.52
2:NE:11:GLN:HB3	25:NE:501:GTP:O1B	2.09	0.52
2:NE:202:PHE:CD1	2:NE:268:PRO:HD2	2.45	0.52
3:NH:172:SER:OG	3:NH:205:GLU:OE2	2.19	0.52
2:NI:390:ARG:HA	2:NI:393:HIS:NE2	2.25	0.52
18:O1:36:GLU:O	20:Q1:1413:SER:OG	2.26	0.52
3:OD:81:PHE:O	3:OD:84:ILE:HG22	2.09	0.52
2:OE:189:LEU:HA	2:OE:192:HIS:ND1	2.25	0.52
3:OF:37:HIS:HD1	24:YK:64:ARG:HH12	1.55	0.52
19:P1:244:PRO:O	19:P1:245:VAL:C	2.48	0.52
19:P1:492:ARG:CZ	19:P1:494:ARG:HB3	2.40	0.52
2:PE:12:ALA:O	25:PE:501:GTP:N1	2.41	0.52
3:PF:38:GLY:O	24:YJ:21:GLN:NE2	2.43	0.52
3:PF:198:GLU:HG2	3:PF:266:PHE:HE2	1.75	0.52
2:PG:262:TYR:OH	3:PH:391:ARG:HG3	2.09	0.52
20:Q2:1414:LEU:C	20:Q2:1416:ARG:H	2.12	0.52
2:QE:70:LEU:HB3	2:QE:97:GLU:O	2.09	0.52
3:QH:61:PRO:HD3	3:QH:84:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:101:TRP:O	3:QH:105:HIS:HB2	2.10	0.52
3:RF:291:GLN:NE2	3:RF:295:ASP:OD2	2.43	0.52
3:RF:378:PHE:CD1	3:RF:419:VAL:HG22	2.45	0.52
3:SF:111:GLU:HG2	3:SF:112:LEU:HD12	1.91	0.52
3:SF:251:ARG:HH22	2:SG:105:ARG:HH22	1.56	0.52
3:SH:88:ASP:OD1	3:SH:89:ASN:N	2.43	0.52
3:SJ:20:PHE:CZ	3:SJ:24:ILE:HD11	2.45	0.52
3:TH:24:ILE:HG23	3:TH:241:ARG:HH12	1.75	0.52
3:TH:278:SER:HA	3:TH:281:TYR:HB2	1.91	0.52
3:UF:5:VAL:HG22	3:UF:62:ARG:HB3	1.91	0.52
3:UF:387:ALA:O	3:UF:390:ARG:NH1	2.42	0.52
2:UG:235:VAL:HA	2:UG:238:ILE:HG12	1.92	0.52
3:VH:117:LEU:HA	3:VH:120:VAL:HG22	1.92	0.52
3:VH:374:ILE:HA	3:VH:377:LEU:HD13	1.92	0.52
2:WE:25:CYS:HB2	2:WE:30:ILE:HB	1.91	0.52
3:WF:310:TYR:HB2	3:WF:341:PHE:CD1	2.45	0.52
3:WH:2:ARG:CZ	2:WI:96:LYS:HB3	2.40	0.52
3:WH:8:GLN:HG2	3:WH:65:LEU:CD1	2.39	0.52
3:WH:138:SER:HB2	3:WH:169:VAL:HG12	1.92	0.52
22:XC:28:LYS:HE3	22:XC:58:TYR:CE2	2.45	0.52
22:XD:38:THR:O	23:XJ:199:GLN:NE2	2.42	0.52
22:XE:177:LEU:HB3	22:XE:181:PHE:CB	2.40	0.52
23:XJ:204:ASN:O	23:XJ:208:LEU:HG	2.10	0.52
23:XK:66:PRO:HA	23:XK:81:LYS:HE3	1.92	0.52
1:A2:160:GLN:HG2	1:A2:238:LEU:HD22	1.91	0.51
1:A2:253:LEU:HB3	1:A2:400:ARG:HH21	1.75	0.51
1:A3:162:ARG:HA	1:A3:165:ARG:CZ	2.40	0.51
2:AE:55:GLU:HB2	2:AE:61:HIS:CD2	2.44	0.51
2:AE:72:PRO:HA	2:AE:75:VAL:HG12	1.92	0.51
3:AH:197:ASP:OD1	3:AH:198:GLU:N	2.37	0.51
3:AH:375:GLN:HE21	3:AH:422:TYR:HB3	1.73	0.51
2:AI:252:LEU:HD12	2:AI:253:THR:N	2.24	0.51
4:B2:415:THR:OG1	6:D4:400:GLN:NE2	2.44	0.51
4:B7:304:LEU:HD13	4:B7:356:LEU:HD11	1.92	0.51
2:BE:346:TRP:HD1	3:BF:390:ARG:NH2	2.09	0.51
2:BI:408:TYR:HA	2:BI:411:GLU:HG3	1.93	0.51
5:C7:94:TYR:CE1	6:D3:245:SER:HB2	2.44	0.51
3:CF:172:SER:HB3	3:CF:175:VAL:O	2.10	0.51
2:CI:322:ASP:HB3	2:CI:373:ARG:NH1	2.25	0.51
6:D3:54:ASP:OD1	6:D3:55:GLU:N	2.43	0.51
6:D3:72:ASP:OD1	6:D3:73:TYR:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:34:GLY:HA2	2:DE:86:LEU:HD21	1.91	0.51
2:DE:91:GLN:HG3	2:DE:121:ARG:HH21	1.75	0.51
2:DE:224:TYR:HE2	25:DE:501:GTP:C6	2.28	0.51
3:DF:2:ARG:HD3	3:DF:129:CYS:O	2.11	0.51
2:DG:362:VAL:HA	2:DG:368:LEU:HD21	1.91	0.51
7:E2:166:TYR:CZ	7:E2:168:PRO:HA	2.45	0.51
3:ED:28:HIS:HA	3:ED:43:GLN:OE1	2.09	0.51
2:EE:15:GLN:HB2	25:EE:501:GTP:N1	2.22	0.51
2:EE:214:ARG:NH1	2:EE:215:ARG:HG3	2.25	0.51
2:FE:32:PRO:O	2:FE:85:GLN:NE2	2.43	0.51
2:FG:311:LYS:NZ	2:FG:342:GLN:O	2.43	0.51
2:FG:338:LYS:HZ2	2:FG:340:THR:H	1.58	0.51
3:FH:72:THR:O	3:FH:75:SER:OG	2.18	0.51
3:FH:375:GLN:HA	3:FH:378:PHE:CE1	2.46	0.51
2:GE:166:LYS:N	2:GE:199:ASP:OD2	2.40	0.51
2:GG:298:PRO:HG3	2:GG:308:ARG:HH21	1.73	0.51
3:GH:151:LEU:O	3:GH:155:ILE:HG12	2.10	0.51
2:GI:363:VAL:H	2:GI:368:LEU:HD21	1.75	0.51
2:HE:85:GLN:OE1	2:HE:85:GLN:N	2.35	0.51
2:HE:353:VAL:N	3:HF:177:ASP:OD1	2.35	0.51
3:HF:345:ILE:HD12	3:HF:346:PRO:HD2	1.92	0.51
2:HG:67:PHE:HB2	2:HG:92:LEU:HD13	1.92	0.51
2:HI:178:SER:OG	2:HI:180:ALA:O	2.28	0.51
3:JD:197:ASP:OD1	3:JD:198:GLU:N	2.43	0.51
2:JE:427:ALA:HA	2:JE:430:LYS:HG2	1.92	0.51
3:JF:252:LYS:HE3	2:JG:100:ALA:HA	1.91	0.51
2:JG:1:MET:N	2:JG:130:THR:OG1	2.35	0.51
3:JH:170:VAL:N	3:JH:202:ILE:O	2.31	0.51
3:JH:257:MET:HE1	3:JH:314:ALA:HB2	1.92	0.51
14:K2:424:ARG:O	14:K2:428:HIS:ND1	2.44	0.51
14:K3:383:LEU:HA	2:LI:339:ARG:NH2	2.24	0.51
14:K4:147:ILE:HG12	14:K4:304:LEU:HD11	1.93	0.51
2:KI:402:ARG:HH21	21:R2:128:VAL:HG12	1.75	0.51
15:L2:193:ARG:O	15:L2:197:LEU:HG	2.10	0.51
3:LD:256:ASN:HD22	2:LE:181:VAL:HG22	1.74	0.51
3:LF:330:MET:HG3	3:LF:349:VAL:HG11	1.91	0.51
2:LG:208:ALA:H	2:LG:304:LYS:NZ	2.07	0.51
2:LG:264:ARG:NE	18:O2:84:ARG:HH11	2.08	0.51
3:LH:234:SER:O	3:LH:238:THR:HG23	2.10	0.51
2:LI:172:TYR:CG	2:LI:173:PRO:HD2	2.45	0.51
2:ME:265:ILE:HB	2:ME:432:TYR:HE1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:47:ASP:O	2:MG:49:PHE:N	2.43	0.51
2:MG:67:PHE:HB2	2:MG:92:LEU:HD13	1.92	0.51
2:MG:434:GLU:HB2	18:O2:46:ARG:HH22	1.75	0.51
2:MI:230:LEU:O	2:MI:233:GLN:HG3	2.10	0.51
17:N2:143:GLY:HA3	19:P1:418:ILE:HG12	1.92	0.51
3:NH:69:GLU:OE1	3:NH:72:THR:N	2.43	0.51
3:OD:144:GLY:N	25:OD:501:GTP:O2B	2.42	0.51
3:OH:176:SER:O	3:OH:178:THR:N	2.42	0.51
19:P1:67:VAL:HA	19:P1:83:GLN:HA	1.92	0.51
19:P1:528:TYR:HB2	19:P1:537:ILE:HB	1.92	0.51
19:P2:20:ILE:HB	19:P2:611:ILE:HB	1.92	0.51
2:PE:141:PHE:HD2	2:PE:173:PRO:HD3	1.75	0.51
2:PG:279:GLU:HB2	24:YK:127:CYS:HB3	1.92	0.51
3:PH:411:ALA:O	3:PH:415:MET:HG2	2.10	0.51
3:QF:152:ILE:HA	3:QF:155:ILE:HG12	1.91	0.51
3:QF:198:GLU:HG2	3:QF:266:PHE:CD2	2.45	0.51
2:QI:12:ALA:HB1	25:QI:501:GTP:N3	2.25	0.51
2:QI:389:ALA:HA	2:QI:392:ASP:OD2	2.09	0.51
2:RE:3:GLU:H	2:RE:133:GLN:HE22	1.58	0.51
3:RF:117:LEU:HA	3:RF:120:VAL:HG22	1.92	0.51
2:RG:245:ASP:HA	2:RG:249:ASN:HD21	1.75	0.51
2:RI:311:LYS:NZ	2:RI:343:PHE:O	2.43	0.51
2:RI:392:ASP:OD1	2:RI:393:HIS:N	2.42	0.51
3:RJ:197:ASP:OD1	3:RJ:198:GLU:N	2.42	0.51
2:SE:12:ALA:HB1	25:SE:501:GTP:C2	2.45	0.51
3:SF:327:ASP:O	3:SF:330:MET:HG3	2.11	0.51
3:SF:416:ASN:HA	3:SF:419:VAL:HG22	1.91	0.51
3:SJ:405:GLU:O	3:SJ:409:THR:HG23	2.10	0.51
3:TF:379:LYS:NZ	3:TF:383:GLU:OE2	2.30	0.51
2:TG:102:ASN:HD21	2:TG:411:GLU:HG2	1.75	0.51
2:TG:169:PHE:CD2	2:TG:202:PHE:HB2	2.45	0.51
3:TJ:172:SER:OG	3:TJ:205:GLU:OE2	2.26	0.51
3:UF:113:VAL:HA	3:UF:116:VAL:HG22	1.92	0.51
2:UG:121:ARG:CZ	2:UG:124:LYS:HE2	2.40	0.51
2:UG:136:LEU:HG	2:UG:169:PHE:CE2	2.45	0.51
3:VD:321:MET:SD	3:VD:321:MET:N	2.83	0.51
3:VH:378:PHE:CD1	3:VH:419:VAL:HG22	2.44	0.51
2:WG:349:THR:HG23	3:WH:179:VAL:HG12	1.91	0.51
3:WH:246:LEU:HB3	3:WH:353:VAL:H	1.75	0.51
2:WI:31:GLN:OE1	2:WI:36:MET:HE3	2.11	0.51
24:YK:125:LEU:HD11	24:YK:138:VAL:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:50:GLN:O	24:YN:53:MET:HG3	2.09	0.51
1:A2:157:SER:O	1:A2:161:ILE:HG13	2.09	0.51
1:A2:222:ASN:O	1:A2:226:GLU:HG2	2.11	0.51
2:AE:2:ARG:CZ	2:AE:242:LEU:HA	2.41	0.51
2:AG:311:LYS:HE3	2:AG:344:VAL:HG22	1.92	0.51
2:AI:329:ASN:HA	2:AI:332:ILE:HG22	1.91	0.51
4:B3:167:GLU:O	4:B3:170:GLN:NE2	2.44	0.51
4:B8:379:CYS:O	4:B8:383:THR:HG23	2.11	0.51
3:BH:285:THR:O	3:BH:288:GLU:HG3	2.10	0.51
2:BI:272:TYR:HE1	2:BI:374:ALA:HB1	1.75	0.51
2:BI:420:GLU:HA	2:BI:423:GLU:CD	2.29	0.51
3:CF:55:THR:HG22	11:H3:230:TRP:NE1	2.22	0.51
3:CF:141:GLY:HA3	25:CF:501:GTP:H5''	1.91	0.51
2:CG:185:TYR:O	2:CG:189:LEU:HG	2.11	0.51
2:CG:206:ASN:HA	2:CG:209:ILE:HD12	1.92	0.51
3:DD:172:SER:OG	3:DD:205:GLU:OE2	2.25	0.51
2:DE:88:HIS:CE1	2:DE:121:ARG:HH22	2.29	0.51
2:DE:178:SER:OG	2:DE:180:ALA:O	2.28	0.51
2:DG:54:SER:OG	2:DG:64:ARG:NH2	2.44	0.51
2:DG:333:ALA:O	2:DG:337:THR:HG23	2.09	0.51
3:ED:350:LYS:NZ	2:EE:181:VAL:H	2.03	0.51
2:EE:89:PRO:HD3	2:FE:283:HIS:HE1	1.75	0.51
2:EE:239:THR:HA	2:EE:242:LEU:HD13	1.92	0.51
3:EF:299:MET:SD	3:EF:304:ASP:HA	2.50	0.51
2:EG:1:MET:O	2:EG:131:GLY:HA3	2.10	0.51
2:EG:117:LEU:O	2:EG:121:ARG:HG2	2.10	0.51
2:EG:338:LYS:NZ	2:EG:339:ARG:H	2.08	0.51
3:EH:102:ALA:HB2	3:EH:398:TYR:HD1	1.76	0.51
3:EH:309:ARG:HE	3:EH:426:GLN:HE21	1.59	0.51
2:FE:145:THR:HG22	25:FE:501:GTP:O3B	2.10	0.51
2:GE:208:ALA:H	2:GE:304:LYS:HZ1	1.58	0.51
2:GG:11:GLN:O	2:GG:14:VAL:HG22	2.10	0.51
11:H4:213:ILE:C	11:H4:215:ARG:N	2.63	0.51
3:HD:273:LEU:H	3:HD:292:GLN:NE2	2.07	0.51
3:HF:357:PRO:HB3	3:HF:362:LYS:O	2.11	0.51
2:IG:178:SER:OG	2:IG:180:ALA:O	2.29	0.51
3:JD:378:PHE:CD1	3:JD:419:VAL:HG22	2.46	0.51
3:JH:405:GLU:HA	3:JH:408:PHE:CD2	2.45	0.51
3:KH:238:THR:HG21	3:KH:318:ARG:NH1	2.25	0.51
2:KI:415:GLU:HA	2:KI:418:PHE:HD2	1.75	0.51
15:L2:242:SER:HB2	15:L2:246:LYS:HZ1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:306:ASP:OD2	2:LG:308:ARG:HB2	2.10	0.51
3:LH:111:GLU:OE1	3:LH:111:GLU:N	2.43	0.51
16:M2:64:MET:N	16:M2:64:MET:SD	2.84	0.51
3:MF:228:LEU:O	3:MF:232:THR:HG23	2.11	0.51
3:MH:323:MET:O	3:MH:326:VAL:HG22	2.11	0.51
3:NF:46:ARG:HD2	3:NF:241:ARG:HA	1.91	0.51
3:NF:211:CYS:HA	3:NF:215:LEU:HB2	1.92	0.51
2:NG:167:LEU:HA	2:NG:200:CYS:O	2.10	0.51
3:NH:105:HIS:HA	3:NH:150:LEU:HD11	1.92	0.51
2:OE:53:PHE:O	2:OE:64:ARG:NH1	2.43	0.51
2:OE:252:LEU:HA	2:OE:255:PHE:CD2	2.45	0.51
3:OF:309:ARG:CZ	3:OF:342:VAL:HG12	2.40	0.51
2:OG:88:HIS:CE1	2:PG:280:LYS:HZ1	2.28	0.51
3:OH:12:CYS:HA	25:OH:501:GTP:HN22	1.74	0.51
2:OI:230:LEU:HA	2:OI:233:GLN:HG3	1.93	0.51
19:P1:167:SER:OG	19:P1:217:ASP:OD2	2.28	0.51
2:PE:224:TYR:CE2	25:PE:501:GTP:C5	2.98	0.51
2:PG:170:ALA:O	2:PG:203:MET:HA	2.10	0.51
3:PH:48:ASN:C	3:PH:62:ARG:HH22	2.13	0.51
2:PI:6:SER:O	2:PI:65:ALA:HA	2.11	0.51
2:PI:236:SER:O	2:PI:243:ARG:NH2	2.36	0.51
20:Q2:1470:SER:HA	20:Q2:1504:LYS:HG3	1.92	0.51
2:QG:226:ASN:ND2	2:QG:367:ASP:OD2	2.43	0.51
3:QH:54:ALA:N	3:QH:58:LYS:O	2.40	0.51
2:QI:3:GLU:CD	2:QI:132:LEU:H	2.13	0.51
2:QI:229:ARG:HH12	2:QI:233:GLN:HB2	1.76	0.51
21:R2:270:VAL:HG12	21:R2:280:TYR:CG	2.44	0.51
2:RE:288:VAL:HG23	2:RE:319:TYR:CE2	2.45	0.51
2:RG:266:HIS:C	2:RG:268:PRO:HD3	2.31	0.51
3:RJ:114:ASP:OD1	3:RJ:115:SER:N	2.37	0.51
2:SE:363:VAL:H	2:SE:368:LEU:HD21	1.74	0.51
3:SF:122:LYS:HG2	3:TF:291:GLN:NE2	2.26	0.51
3:SF:386:THR:O	3:SF:390:ARG:HG2	2.11	0.51
2:SG:55:GLU:HA	2:SG:60:LYS:O	2.11	0.51
2:SG:166:LYS:O	2:SG:199:ASP:HB2	2.11	0.51
3:SH:36:TYR:HE2	3:SH:38:GLY:HA2	1.76	0.51
3:TF:267:MET:HG2	3:TF:301:ALA:HB3	1.92	0.51
3:TF:334:GLN:HA	3:TF:341:PHE:CE2	2.45	0.51
2:TG:98:ASP:O	2:TG:105:ARG:NE	2.33	0.51
2:TI:260:VAL:HG13	3:TJ:397:TRP:HZ2	1.74	0.51
3:UD:12:CYS:SG	25:UD:501:GTP:H5'	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:90:GLU:N	2:UE:90:GLU:OE1	2.43	0.51
2:VG:175:PRO:HG2	2:VG:304:LYS:HD3	1.92	0.51
2:VG:331:ALA:O	2:VG:334:THR:OG1	2.23	0.51
3:VH:36:TYR:CE2	3:VH:38:GLY:HA2	2.44	0.51
2:WG:121:ARG:O	2:WG:124:LYS:HG2	2.10	0.51
3:WH:313:VAL:HG23	3:WH:349:VAL:HA	1.92	0.51
24:YI:146:ASP:HA	24:YI:149:LYS:HG2	1.91	0.51
24:YL:80:CYS:HA	24:YL:83:PHE:CD2	2.45	0.51
24:YN:14:LYS:HB3	24:YN:18:PHE:CZ	2.46	0.51
2:AE:280:LYS:HZ1	2:ME:88:HIS:CE1	2.28	0.51
2:AG:54:SER:OG	2:AG:64:ARG:NE	2.43	0.51
3:AH:407:GLU:HA	3:AH:410:GLU:CD	2.31	0.51
4:B7:135:GLU:N	4:B7:135:GLU:OE1	2.43	0.51
4:B7:137:LEU:O	4:B7:140:GLU:HB3	2.11	0.51
2:BE:11:GLN:HB3	2:BE:69:ASP:OD2	2.10	0.51
2:BG:356:ASN:OD1	2:BG:357:TYR:N	2.43	0.51
3:BH:172:SER:HB3	3:BH:175:VAL:O	2.09	0.51
5:C3:229:CYS:SG	5:C3:232:ARG:NH2	2.83	0.51
5:C3:250:ALA:HA	5:C3:310:ARG:HH12	1.75	0.51
2:CG:279:GLU:OE2	2:CG:280:LYS:HE3	2.10	0.51
3:CH:81:PHE:O	3:CH:84:ILE:HG22	2.10	0.51
2:CI:189:LEU:HA	2:CI:192:HIS:CE1	2.45	0.51
6:D7:336:ILE:O	6:D7:339:LEU:HG	2.10	0.51
6:D8:376:ARG:O	6:D8:379:SER:OG	2.21	0.51
2:DE:35:GLN:HG3	2:DE:60:LYS:HD3	1.92	0.51
3:EH:130:LEU:HB2	3:EH:162:ARG:HH11	1.75	0.51
8:F7:382:ILE:HG12	8:F7:430:LEU:HD13	1.90	0.51
3:FD:344:TRP:HD1	2:FE:401:LYS:HD3	1.76	0.51
2:FG:271:THR:HB	2:FG:377:MET:HB3	1.92	0.51
3:FH:15:GLN:HE21	3:FH:222:TYR:HD2	1.58	0.51
3:FH:132:GLY:HA3	3:FH:163:ILE:O	2.10	0.51
9:G1:280:GLU:OE1	9:G1:280:GLU:N	2.32	0.51
9:G1:347:CYS:SG	9:G1:352:ARG:NE	2.74	0.51
9:G2:147:LYS:NZ	9:G2:149:ILE:O	2.26	0.51
10:G5:30:ASN:ND2	10:G5:31:ASN:H	2.08	0.51
3:GD:197:ASP:OD1	3:GD:198:GLU:N	2.43	0.51
3:GD:312:THR:HA	3:GD:348:ASN:HB2	1.91	0.51
2:GE:262:TYR:CG	2:GE:263:PRO:HD2	2.45	0.51
2:GG:27:GLU:OE2	2:GG:28:HIS:CD2	2.63	0.51
3:GH:247:ASN:HB3	3:GH:252:LYS:HD2	1.91	0.51
11:H4:253:VAL:HG13	11:H4:256:HIS:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:118:ASP:OD1	3:HD:121:ARG:NH2	2.35	0.51
3:HF:350:LYS:HE3	2:HG:181:VAL:H	1.74	0.51
2:HG:142:GLY:HA2	2:HG:183:GLU:HG2	1.92	0.51
3:HH:189:VAL:HA	3:HH:192:LEU:HB2	1.93	0.51
3:HH:214:THR:HG23	3:HH:215:LEU:HD22	1.92	0.51
2:IE:88:HIS:O	2:IE:91:GLN:HG3	2.10	0.51
2:IG:268:PRO:HG3	2:IG:380:ASN:HD22	1.74	0.51
2:JE:144:GLY:N	25:JE:501:GTP:O2B	2.42	0.51
3:JF:19:LYS:O	3:JF:22:GLU:HG3	2.10	0.51
2:JG:188:ILE:HG12	2:JG:421:ALA:HB1	1.91	0.51
14:K2:402:GLN:HA	14:K2:407:THR:OG1	2.10	0.51
14:K3:353:THR:O	14:K3:357:MET:HG2	2.11	0.51
14:K3:406:GLY:O	14:K3:407:THR:OG1	2.25	0.51
14:K3:445:TRP:NE1	14:K3:449:CYS:SG	2.83	0.51
3:KD:69:GLU:CD	3:KD:71:GLY:H	2.13	0.51
2:KE:88:HIS:HD1	2:KE:91:GLN:N	2.05	0.51
2:KE:429:GLU:HA	2:KE:432:TYR:HD2	1.75	0.51
3:KF:12:CYS:HB3	25:KF:501:GTP:H5'	1.92	0.51
15:L2:220:SER:HA	2:VE:44:GLY:H	1.75	0.51
3:LD:69:GLU:OE1	3:LD:72:THR:N	2.39	0.51
3:LF:417:ASP:O	3:LF:421:GLU:HG2	2.10	0.51
2:LI:206:ASN:HA	2:LI:209:ILE:HD12	1.91	0.51
2:LI:397:LEU:C	2:LI:401:LYS:HZ2	2.13	0.51
3:MF:2:ARG:HB3	3:MF:131:GLN:NE2	2.25	0.51
2:NE:235:VAL:HA	2:NE:238:ILE:HG12	1.92	0.51
2:NE:360:PRO:HG2	2:NE:374:ALA:HB3	1.91	0.51
3:NF:3:GLU:OE2	3:NF:128:ASP:N	2.43	0.51
18:O2:94:LYS:HA	18:O2:97:HIS:CE1	2.46	0.51
3:OD:330:MET:SD	3:OD:349:VAL:HG21	2.51	0.51
2:OE:263:PRO:O	2:OE:264:ARG:HB2	2.10	0.51
2:OG:183:GLU:HA	2:OG:186:ASN:ND2	2.25	0.51
3:OH:53:GLU:HB2	3:OH:59:TYR:CE1	2.45	0.51
3:OH:214:THR:HG23	3:OH:215:LEU:HD12	1.92	0.51
3:OH:309:ARG:H	3:OH:372:THR:HG1	1.58	0.51
2:OI:182:VAL:HA	2:OI:185:TYR:CD1	2.44	0.51
19:P1:472:ASN:OD1	19:P1:474:GLU:N	2.41	0.51
19:P2:140:TRP:HA	19:P2:147:ALA:HA	1.92	0.51
19:P2:149:CYS:HB2	19:P2:194:ILE:HD11	1.92	0.51
3:PF:51:TYR:HD2	3:PF:59:TYR:HB3	1.74	0.51
3:PF:344:TRP:CE2	2:PG:401:LYS:HD2	2.45	0.51
3:PH:224:ASP:O	3:PH:227:HIS:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Q1:1378:GLU:O	20:Q1:1382:LEU:HG	2.09	0.51
20:Q1:1414:LEU:C	20:Q1:1416:ARG:H	2.14	0.51
20:Q1:1468:LEU:HB3	20:Q1:1504:LYS:CB	2.37	0.51
20:Q2:1396:TYR:O	20:Q2:1400:ILE:HG12	2.09	0.51
20:Q2:1404:VAL:HG23	20:Q2:1405:LEU:HG	1.92	0.51
20:Q2:1442:ARG:HH21	20:Q2:1443:ILE:HG22	1.74	0.51
3:QF:47:ILE:HG13	3:QF:51:TYR:HB2	1.90	0.51
3:QH:375:GLN:N	3:QH:375:GLN:OE1	2.41	0.51
2:QI:89:PRO:HB2	2:QI:90:GLU:OE1	2.10	0.51
3:RF:12:CYS:CB	25:RF:501:GTP:H5'	2.40	0.51
3:RF:285:THR:O	3:RF:288:GLU:HG3	2.10	0.51
3:RF:358:PRO:HB2	3:RF:361:LEU:HD21	1.92	0.51
2:RG:5:ILE:HD13	2:RG:64:ARG:HB3	1.92	0.51
3:RH:75:SER:O	3:RH:78:SER:OG	2.22	0.51
3:RH:316:VAL:HB	3:RH:366:THR:HG22	1.93	0.51
2:RI:1:MET:N	2:RI:130:THR:OG1	2.43	0.51
2:RI:114:ILE:O	2:RI:118:VAL:HG13	2.11	0.51
2:SG:160:ASP:OD1	2:SG:161:TYR:N	2.43	0.51
2:SG:261:PRO:HG3	2:SG:313:MET:SD	2.51	0.51
3:SH:12:CYS:HB3	25:SH:501:GTP:O4'	2.11	0.51
3:SH:406:MET:O	3:SH:409:THR:OG1	2.18	0.51
3:TH:111:GLU:HG2	3:TH:112:LEU:HD12	1.92	0.51
3:TH:173:PRO:O	3:TH:380:ARG:NH2	2.44	0.51
3:TH:316:VAL:HA	3:TH:352:ALA:O	2.10	0.51
2:TI:68:VAL:HA	2:TI:93:ILE:HB	1.92	0.51
3:TJ:378:PHE:CD1	3:TJ:419:VAL:HG22	2.45	0.51
3:UF:111:GLU:OE1	3:UF:111:GLU:N	2.41	0.51
2:UG:209:ILE:HG21	2:UG:227:LEU:HG	1.92	0.51
2:UG:296:PHE:CE2	2:UG:335:ILE:HG21	2.46	0.51
3:UH:6:HIS:CD2	3:UH:134:GLN:HG2	2.45	0.51
3:VD:1:MET:SD	3:VD:3:GLU:HB3	2.50	0.51
3:VD:152:ILE:HA	3:VD:155:ILE:HG12	1.91	0.51
3:VD:242:PHE:CE1	3:VD:356:ILE:HG21	2.45	0.51
2:VE:306:ASP:OD2	2:VE:309:HIS:N	2.44	0.51
3:VF:12:CYS:HB3	25:VF:501:GTP:O4'	2.11	0.51
2:VG:370:LYS:O	2:VG:372:GLN:NE2	2.43	0.51
3:VH:378:PHE:CE1	3:VH:419:VAL:HG22	2.45	0.51
2:WE:196:GLU:HG2	2:WE:197:HIS:ND1	2.25	0.51
2:WG:3:GLU:HB2	2:WG:51:THR:O	2.11	0.51
2:WI:26:LEU:HD12	2:WI:364:PRO:HD2	1.93	0.51
22:XC:34:ILE:O	22:XC:34:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YI:53:MET:CA	24:YI:63:ARG:HH22	2.22	0.51
24:YK:146:ASP:OD1	24:YK:147:PHE:N	2.43	0.51
24:YL:125:LEU:HD13	24:YL:130:ALA:HB1	1.91	0.51
24:YN:147:PHE:HA	24:YN:150:GLU:OE1	2.10	0.51
3:AF:198:GLU:HA	3:AF:266:PHE:HE2	1.75	0.51
2:AG:101:ASN:O	2:AG:182:VAL:HG21	2.11	0.51
2:AG:228:ASN:HA	2:AG:231:ILE:HG12	1.93	0.51
4:B7:370:LEU:O	4:B7:373:ILE:HG12	2.10	0.51
4:B8:120:ARG:HH11	4:B8:120:ARG:HG2	1.75	0.51
5:C2:136:ARG:NH2	5:C2:139:GLN:OE1	2.43	0.51
3:CF:114:ASP:N	3:CF:114:ASP:OD1	2.44	0.51
2:CI:79:ARG:HE	11:H4:218:ILE:HB	1.74	0.51
2:CI:89:PRO:HD2	2:DG:280:LYS:HZ2	1.76	0.51
3:CJ:152:ILE:HG13	3:CJ:153:SER:N	2.25	0.51
3:DD:80:PRO:O	3:DD:83:GLN:NE2	2.41	0.51
3:DD:350:LYS:NZ	2:DE:181:VAL:HG13	2.26	0.51
2:DG:11:GLN:HB3	25:DG:501:GTP:O1B	2.10	0.51
2:DG:272:TYR:HD2	2:DG:275:VAL:HG13	1.75	0.51
3:ED:378:PHE:CD1	3:ED:419:VAL:HG22	2.45	0.51
3:EF:210:ILE:HG13	3:EF:300:MET:HB2	1.91	0.51
3:EF:360:GLY:HA2	10:G5:494:PHE:CE2	2.45	0.51
3:EH:291:GLN:NE2	3:EH:295:ASP:OD2	2.43	0.51
8:F3:233:ALA:O	8:F3:236:ILE:HG12	2.11	0.51
3:FD:54:ALA:HB3	3:FD:58:LYS:HB2	1.92	0.51
2:FG:362:VAL:HG11	2:FG:370:LYS:HD2	1.92	0.51
3:FH:107:THR:OG1	3:FH:401:GLU:OE2	2.28	0.51
9:G1:474:LYS:HE3	9:G1:476:PHE:HB2	1.91	0.51
10:G5:25:HIS:HD2	10:G5:40:LYS:HZ2	1.55	0.51
10:G5:86:GLU:N	10:G5:86:GLU:OE1	2.44	0.51
11:H3:15:HIS:O	11:H3:16:TYR:HB2	2.09	0.51
2:HE:108:TYR:O	2:HE:112:LYS:NZ	2.38	0.51
2:HE:167:LEU:HB3	2:HE:169:PHE:HE1	1.76	0.51
3:HF:270:PHE:CG	3:HF:271:ALA:N	2.79	0.51
3:HH:143:THR:O	3:HH:147:MET:HG3	2.10	0.51
3:IF:172:SER:HB3	3:IF:175:VAL:O	2.11	0.51
2:II:235:VAL:HA	2:II:238:ILE:HG12	1.93	0.51
2:JE:156:ARG:HA	2:JE:159:VAL:HG22	1.93	0.51
3:JF:206:ALA:O	3:JF:210:ILE:HG12	2.11	0.51
2:JG:265:ILE:HD12	2:JG:432:TYR:CE1	2.44	0.51
14:K2:476:GLN:HA	14:K2:479:ARG:HG2	1.91	0.51
3:KD:325:GLU:HB3	2:KE:221:ARG:HH12	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:372:THR:HB	3:KD:375:GLN:HE22	1.75	0.51
2:KE:172:TYR:OH	2:KE:387:ALA:HB1	2.11	0.51
2:KG:16:ILE:HG22	2:KG:228:ASN:OD1	2.09	0.51
3:KH:273:LEU:H	3:KH:292:GLN:NE2	2.00	0.51
15:L3:32:ARG:HA	15:L3:32:ARG:HH11	1.73	0.51
2:LE:220:GLU:O	2:LE:221:ARG:NE	2.43	0.51
2:LI:419:SER:O	2:LI:422:ARG:HG3	2.11	0.51
3:MF:344:TRP:C	2:MG:401:LYS:HZ1	2.14	0.51
2:MG:393:HIS:HA	2:MG:396:ASP:OD2	2.11	0.51
2:MI:25:CYS:HB2	2:MI:30:ILE:HB	1.92	0.51
2:NE:82:THR:O	2:NE:85:GLN:NE2	2.42	0.51
2:NE:87:PHE:CD1	2:NE:92:LEU:HD21	2.45	0.51
2:NE:88:HIS:HB3	2:NE:91:GLN:HB2	1.93	0.51
2:NG:123:ARG:NH1	2:NG:161:TYR:OH	2.44	0.51
3:NH:194:GLU:OE1	3:NH:195:ASN:ND2	2.43	0.51
2:NI:8:HIS:CD2	2:NI:17:GLY:HA3	2.46	0.51
2:NI:401:LYS:C	2:NI:402:ARG:HD3	2.30	0.51
18:O1:44:ASN:OD1	18:O1:48:HIS:HB2	2.10	0.51
3:OD:6:HIS:O	3:OD:63:ALA:HA	2.09	0.51
3:OD:299:MET:N	3:OD:299:MET:SD	2.84	0.51
2:OE:434:GLU:HA	2:OE:437:VAL:HG12	1.92	0.51
3:OF:232:THR:HG22	3:OF:270:PHE:CD1	2.45	0.51
3:OH:52:ASN:O	3:OH:60:VAL:N	2.44	0.51
3:OH:148:GLY:HA2	3:OH:151:LEU:HG	1.91	0.51
19:P1:113:LYS:O	19:P1:131:GLY:N	2.40	0.51
19:P2:93:ILE:HD12	19:P2:117:LEU:HD21	1.92	0.51
19:P2:299:ARG:HB2	19:P2:306:PHE:HE1	1.76	0.51
2:PG:127:ASP:OD1	2:PG:128:LEU:N	2.42	0.51
3:PH:230:SER:HA	3:PH:233:MET:HG2	1.92	0.51
3:PH:313:VAL:HB	3:PH:367:PHE:HE1	1.76	0.51
20:Q2:1437:TYR:CZ	20:Q2:1496:TYR:HB2	2.44	0.51
3:QF:31:ASP:HB3	3:QF:37:HIS:NE2	2.26	0.51
3:QF:418:LEU:HD12	3:QF:421:GLU:OE2	2.10	0.51
2:QG:1:MET:SD	2:QG:50:ASN:ND2	2.82	0.51
3:QH:182:PRO:HA	3:QH:381:ILE:HD11	1.92	0.51
3:QH:273:LEU:H	3:QH:292:GLN:HE22	1.58	0.51
3:RF:3:GLU:N	3:RF:129:CYS:O	2.38	0.51
3:RH:139:LEU:HD21	3:RH:170:VAL:HA	1.92	0.51
2:RI:321:GLY:HA3	2:RI:372:GLN:O	2.10	0.51
3:SF:270:PHE:CG	3:SF:271:ALA:N	2.78	0.51
2:SG:216:ASN:ND2	2:SG:275:VAL:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:390:ARG:HA	2:SG:393:HIS:NE2	2.25	0.51
3:TF:52:ASN:OD1	3:TF:62:ARG:NH1	2.37	0.51
2:TG:254:GLU:OE1	2:TG:254:GLU:N	2.34	0.51
2:TG:254:GLU:O	2:TG:352:LYS:NZ	2.43	0.51
2:UE:1:MET:O	2:UE:131:GLY:HA3	2.11	0.51
2:UE:10:GLY:O	2:UE:14:VAL:HG13	2.11	0.51
2:UG:118:VAL:HG21	2:UG:153:LEU:HD11	1.92	0.51
3:UH:378:PHE:HE1	3:UH:419:VAL:HG22	1.76	0.51
3:VD:229:VAL:O	3:VD:232:THR:OG1	2.23	0.51
2:VE:99:ALA:H	2:VE:145:THR:HG22	1.74	0.51
2:VE:227:LEU:O	2:VE:230:LEU:HG	2.10	0.51
3:VF:31:ASP:OD2	3:VF:35:THR:OG1	2.27	0.51
2:WE:331:ALA:O	2:WE:335:ILE:HG12	2.09	0.51
3:WF:20:PHE:CZ	3:WF:24:ILE:HD11	2.45	0.51
3:WH:19:LYS:O	3:WH:22:GLU:HG3	2.11	0.51
3:WH:134:GLN:OE1	3:WH:134:GLN:N	2.38	0.51
2:WI:35:GLN:NE2	2:WI:58:ALA:O	2.43	0.51
22:XC:26:ASP:O	22:XC:28:LYS:NZ	2.40	0.51
22:XC:176:GLU:OE1	22:XC:176:GLU:N	2.37	0.51
23:XJ:89:TYR:HD2	23:XJ:125:LYS:HB2	1.75	0.51
23:XL:78:ILE:HG22	23:XL:113:ARG:HE	1.75	0.51
23:XL:85:GLU:OE1	23:XL:85:GLU:N	2.42	0.51
2:AE:12:ALA:HB1	25:AE:501:GTP:N3	2.25	0.51
2:AE:99:ALA:H	2:AE:145:THR:HG22	1.74	0.51
3:AF:15:GLN:HB2	3:AF:16:ILE:HD12	1.91	0.51
2:AI:113:GLU:OE1	2:AI:113:GLU:N	2.29	0.51
2:AI:333:ALA:O	2:AI:337:THR:HG23	2.11	0.51
2:BE:88:HIS:HD2	2:BE:91:GLN:H	1.58	0.51
2:BI:90:GLU:HG2	2:BI:121:ARG:CZ	2.40	0.51
2:CG:336:LYS:NZ	3:CH:175:VAL:HB	2.26	0.51
3:CJ:130:LEU:HB3	3:CJ:162:ARG:HH11	1.76	0.51
2:DE:333:ALA:HA	2:DE:336:LYS:HD2	1.92	0.51
3:DH:6:HIS:HE1	3:DH:8:GLN:HB2	1.74	0.51
3:EF:40:SER:HB2	3:EF:43:GLN:CD	2.30	0.51
3:EF:48:ASN:O	3:EF:62:ARG:NH2	2.43	0.51
3:EF:172:SER:HB3	3:EF:175:VAL:O	2.10	0.51
2:FE:107:HIS:CD2	2:FE:152:LEU:HB2	2.46	0.51
3:FF:36:TYR:CZ	3:FF:38:GLY:HA2	2.45	0.51
25:FF:502:GTP:C5	2:FG:224:TYR:HE2	2.29	0.51
2:FG:297:GLU:CD	2:FG:299:ALA:H	2.14	0.51
9:G1:103:PHE:HB2	9:G1:179:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:103:PHE:HB2	9:G2:179:LYS:NZ	2.26	0.51
2:GG:380:ASN:OD1	2:GG:381:THR:N	2.44	0.51
2:HE:101:ASN:HB3	2:HE:182:VAL:CG1	2.40	0.51
2:HE:285:GLN:NE2	2:HE:286:LEU:O	2.43	0.51
2:HE:419:SER:HA	2:HE:422:ARG:NH2	2.25	0.51
2:HG:90:GLU:HG2	2:HG:121:ARG:NH2	2.25	0.51
3:HH:31:ASP:OD2	3:HH:33:THR:OG1	2.28	0.51
2:HI:311:LYS:HG2	2:HI:342:GLN:HB3	1.92	0.51
2:IE:102:ASN:ND2	2:IE:411:GLU:HG2	2.24	0.51
3:IF:134:GLN:HA	3:IF:165:ASN:O	2.10	0.51
3:IH:203:ASP:OD2	3:IH:205:GLU:HB2	2.10	0.51
13:J2:165:VAL:HG13	13:J2:178:ILE:HG12	1.92	0.51
13:J2:167:MET:HA	13:J2:177:ASN:HB2	1.91	0.51
13:J3:150:GLU:HA	13:J3:153:ILE:HG22	1.92	0.51
3:JH:273:LEU:H	3:JH:292:GLN:HE22	1.59	0.51
14:K4:129:HIS:CE1	14:K4:288:THR:OG1	2.63	0.51
2:KI:338:LYS:HZ2	2:KI:340:THR:H	1.59	0.51
15:L2:72:LEU:HD12	15:L2:72:LEU:O	2.10	0.51
3:MF:217:LEU:HD12	3:MF:219:THR:H	1.74	0.51
3:MH:238:THR:HG21	3:MH:318:ARG:HD2	1.92	0.51
3:NF:83:GLN:O	3:OF:281:TYR:OH	2.26	0.51
2:NG:263:PRO:O	2:NG:264:ARG:HB2	2.10	0.51
18:O1:88:ALA:O	18:O1:92:LEU:HG	2.10	0.51
3:OD:130:LEU:HB2	3:OD:162:ARG:HH11	1.76	0.51
2:OE:101:ASN:HA	2:OE:144:GLY:HA2	1.92	0.51
2:OG:388:TRP:HB3	2:OG:425:LEU:HD11	1.93	0.51
2:OI:319:TYR:HB2	2:OI:355:ILE:HD13	1.93	0.51
19:P2:390:ILE:HG22	19:P2:423:ILE:HD11	1.93	0.51
3:PF:148:GLY:HA2	3:PF:151:LEU:HD12	1.90	0.51
2:PG:210:TYR:CE1	2:PG:227:LEU:HD11	2.45	0.51
3:PH:103:LYS:HD3	3:PH:401:GLU:HG3	1.93	0.51
2:PI:254:GLU:OE1	2:PI:254:GLU:N	2.40	0.51
3:QF:46:ARG:HH22	2:QG:73:THR:HA	1.74	0.51
3:QF:139:LEU:N	3:QF:168:SER:OG	2.44	0.51
3:QF:345:ILE:HD12	3:QF:346:PRO:HD2	1.92	0.51
2:QG:127:ASP:OD1	2:QG:128:LEU:N	2.44	0.51
2:QG:230:LEU:O	2:QG:233:GLN:NE2	2.44	0.51
2:RE:68:VAL:HA	2:RE:93:ILE:HB	1.93	0.51
2:RG:176:GLN:OE1	2:RG:176:GLN:N	2.42	0.51
2:RI:29:GLY:O	2:RI:31:GLN:NE2	2.43	0.51
2:RI:88:HIS:CE1	2:SI:280:LYS:HZ1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:11:GLN:HA	3:RJ:14:ASN:HD22	1.75	0.51
3:RJ:101:TRP:HE1	3:RJ:149:THR:HG21	1.76	0.51
3:SF:2:ARG:HB3	3:SF:131:GLN:CD	2.31	0.51
3:SF:322:SER:HB3	2:SG:221:ARG:NH2	2.24	0.51
3:SH:12:CYS:HB3	25:SH:501:GTP:H5'	1.93	0.51
3:SH:299:MET:SD	3:SH:300:MET:N	2.83	0.51
2:SI:216:ASN:ND2	2:SI:275:VAL:HG23	2.26	0.51
2:SI:229:ARG:HH22	2:SI:367:ASP:N	2.01	0.51
2:SI:391:LEU:HA	2:SI:394:LYS:HE2	1.93	0.51
3:SJ:417:ASP:O	3:SJ:420:SER:OG	2.20	0.51
3:TF:171:PRO:HG3	3:TF:181:GLU:OE2	2.11	0.51
2:TG:174:ALA:HB3	2:TG:177:VAL:O	2.10	0.51
3:TH:387:ALA:HA	3:TH:390:ARG:HD2	1.92	0.51
2:TI:3:GLU:N	2:TI:133:GLN:OE1	2.43	0.51
3:TJ:265:PHE:HE2	3:TJ:418:LEU:HD11	1.76	0.51
2:UE:23:LEU:HD13	2:UE:229:ARG:HD2	1.92	0.51
2:UG:371:VAL:HG11	2:UG:374:ALA:HB2	1.92	0.51
3:UH:378:PHE:CE1	3:UH:419:VAL:HG22	2.45	0.51
3:VD:117:LEU:O	3:VD:121:ARG:HG2	2.11	0.51
2:VE:326:LYS:HA	2:VE:329:ASN:HD21	1.75	0.51
3:VF:267:MET:HG2	3:VF:301:ALA:CB	2.39	0.51
2:VG:1:MET:O	2:VG:131:GLY:HA3	2.11	0.51
2:VG:296:PHE:HE2	2:VG:335:ILE:HG21	1.74	0.51
2:WE:389:ALA:HA	2:WE:392:ASP:OD2	2.10	0.51
3:WF:21:TRP:CZ2	3:WF:63:ALA:HB2	2.45	0.51
3:WF:94:GLN:HB2	23:XJ:75:GLY:HA3	1.92	0.51
3:WF:234:SER:O	3:WF:238:THR:HG23	2.10	0.51
3:WH:164:MET:HG2	3:WH:197:ASP:OD2	2.10	0.51
2:WI:161:TYR:O	2:WI:166:LYS:NZ	2.41	0.51
2:WI:306:ASP:OD1	2:WI:308:ARG:NH1	2.43	0.51
23:XL:212:THR:O	23:XL:216:PHE:HB2	2.10	0.51
24:YM:18:PHE:HA	24:YM:21:GLN:HB2	1.92	0.51
24:YN:116:LYS:O	24:YN:119:HIS:ND1	2.33	0.51
3:AF:12:CYS:SG	3:AF:13:GLY:N	2.83	0.51
2:AG:70:LEU:HB3	2:AG:97:GLU:O	2.11	0.51
2:AG:207:GLU:HA	2:AG:210:TYR:HD2	1.75	0.51
2:AI:313:MET:SD	2:AI:314:ALA:N	2.84	0.51
4:B3:245:LEU:O	4:B3:249:GLN:HG2	2.11	0.51
4:B7:88:GLU:OE2	4:B7:240:ARG:NH2	2.44	0.51
2:BG:119:LEU:HA	2:BG:122:ILE:HG12	1.92	0.51
2:BG:270:ALA:O	2:BG:271:THR:OG1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:174:LYS:N	3:CF:205:GLU:OE2	2.44	0.51
6:D8:162:ARG:CZ	6:D8:167:LEU:HA	2.41	0.51
6:D8:182:LEU:O	6:D8:186:ILE:HG12	2.11	0.51
3:DD:8:GLN:HB3	3:DD:65:LEU:HA	1.92	0.51
2:DE:345:ASP:N	2:DE:345:ASP:OD1	2.43	0.51
3:DF:394:PHE:HA	3:DF:397:TRP:HZ3	1.75	0.51
2:DG:234:ILE:O	2:DG:238:ILE:HG23	2.11	0.51
3:EF:277:GLY:O	3:EF:281:TYR:HB2	2.10	0.51
2:EG:224:TYR:CE1	25:EG:501:GTP:C5	2.93	0.51
2:EG:236:SER:HB2	2:EG:243:ARG:HH22	1.75	0.51
2:EG:330:ALA:O	2:EG:334:THR:HG23	2.11	0.51
3:EH:182:PRO:HA	3:EH:381:ILE:HD11	1.92	0.51
3:EH:275:SER:O	3:EH:279:GLN:NE2	2.43	0.51
8:F6:137:GLY:HA2	8:F6:140:ARG:HE	1.74	0.51
8:F7:172:THR:O	8:F7:175:ARG:HD3	2.10	0.51
2:FE:244:PHE:CD2	2:FE:358:GLN:HG2	2.46	0.51
9:G2:133:VAL:O	9:G2:147:LYS:NZ	2.44	0.51
3:GD:324:LYS:HD3	2:GE:210:TYR:CZ	2.45	0.51
3:GF:31:ASP:N	3:GF:31:ASP:OD1	2.43	0.51
3:GF:145:SER:O	3:GF:149:THR:HG23	2.10	0.51
2:GG:206:ASN:OD1	2:GG:207:GLU:N	2.43	0.51
11:H4:251:GLN:O	11:H4:255:ARG:N	2.39	0.51
3:HH:137:HIS:ND1	3:HH:138:SER:O	2.42	0.51
2:II:201:ALA:N	2:II:266:HIS:HD2	2.09	0.51
2:II:426:ALA:O	2:II:430:LYS:HG2	2.11	0.51
2:JE:15:GLN:HG3	25:JE:501:GTP:C6	2.46	0.51
3:JF:378:PHE:CD1	3:JF:419:VAL:HG22	2.46	0.51
14:K2:465:LEU:HD22	14:K2:468:ARG:HH22	1.75	0.51
3:KD:274:THR:HG21	3:KD:279:GLN:HG3	1.92	0.51
3:KF:325:GLU:HB3	2:KG:221:ARG:NH1	2.25	0.51
2:KI:2:ARG:CZ	2:KI:242:LEU:HA	2.41	0.51
2:KI:174:ALA:HB3	2:KI:177:VAL:O	2.11	0.51
15:L3:85:LYS:HD3	2:LI:264:ARG:H	1.76	0.51
2:LE:36:MET:H	2:LE:61:HIS:HE1	1.57	0.51
3:LH:28:HIS:ND1	3:LH:43:GLN:HB2	2.25	0.51
3:LH:114:ASP:N	3:LH:114:ASP:OD1	2.43	0.51
3:LH:117:LEU:HD11	3:LH:154:LYS:HD2	1.92	0.51
2:ME:210:TYR:OH	2:ME:221:ARG:NH2	2.43	0.51
2:MG:302:MET:N	2:MG:302:MET:SD	2.83	0.51
2:NE:390:ARG:HA	2:NE:393:HIS:ND1	2.25	0.51
3:NF:313:VAL:HB	3:NF:367:PHE:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:306:ASP:OD2	2:NG:309:HIS:ND1	2.38	0.51
3:NH:228:LEU:O	3:NH:232:THR:HG23	2.11	0.51
2:NI:321:GLY:HA3	2:NI:372:GLN:O	2.11	0.51
2:NI:395:PHE:CD2	2:NI:422:ARG:HD3	2.46	0.51
3:OF:119:VAL:HA	3:OF:122:LYS:HE3	1.92	0.51
2:OG:232:GLY:HA2	2:OG:235:VAL:HG12	1.93	0.51
3:OH:135:LEU:HD21	3:OH:151:LEU:HD11	1.92	0.51
3:OH:234:SER:O	3:OH:238:THR:HG23	2.11	0.51
3:OH:423:GLN:HA	3:OH:426:GLN:HE21	1.74	0.51
2:OI:213:CYS:O	2:OI:218:ASP:N	2.43	0.51
2:PE:70:LEU:HD12	2:PE:145:THR:HB	1.92	0.51
2:QE:139:HIS:O	2:QE:170:ALA:HA	2.11	0.51
2:RE:211:ASP:O	2:RE:214:ARG:HD3	2.10	0.51
2:RE:311:LYS:NZ	2:RE:343:PHE:O	2.36	0.51
2:RG:192:HIS:NE2	2:RG:420:GLU:OE2	2.43	0.51
3:TF:246:LEU:HD12	3:TF:352:ALA:HB1	1.93	0.51
3:TF:323:MET:N	3:TF:323:MET:SD	2.84	0.51
2:TG:255:PHE:HA	2:TG:352:LYS:HZ3	1.76	0.51
3:TH:292:GLN:HG2	3:TH:298:ASN:ND2	2.25	0.51
2:TI:415:GLU:N	2:TI:415:GLU:OE1	2.44	0.51
3:UD:234:SER:O	3:UD:238:THR:HG23	2.11	0.51
2:UE:256:GLN:HG2	2:UE:257:THR:N	2.26	0.51
2:UG:204:VAL:HG23	2:UG:302:MET:HG3	1.93	0.51
2:UG:206:ASN:HA	2:UG:209:ILE:HD12	1.92	0.51
3:UH:113:VAL:HA	3:UH:116:VAL:HG22	1.92	0.51
2:VG:89:PRO:HD2	2:VG:280:LYS:HZ3	1.74	0.51
2:VG:225:THR:O	2:VG:229:ARG:HB2	2.10	0.51
2:WE:52:PHE:HE2	2:WE:243:ARG:NH1	2.09	0.51
3:WF:186:THR:HA	3:WF:189:VAL:HG12	1.93	0.51
3:WF:374:ILE:HA	3:WF:377:LEU:HD13	1.93	0.51
3:WF:378:PHE:HA	3:WF:381:ILE:HG22	1.91	0.51
3:WH:249:ASP:HB3	3:WH:252:LYS:HB2	1.93	0.51
3:WH:297:LYS:O	3:WH:297:LYS:HD3	2.11	0.51
22:XC:78:MET:HE1	22:XC:162:ILE:HG23	1.92	0.51
22:XD:49:ILE:HB	22:XD:160:CYS:SG	2.51	0.51
22:XD:71:ILE:H	22:XD:151:THR:HG22	1.75	0.51
23:XL:58:LYS:HA	23:XL:61:GLU:HB2	1.92	0.51
24:YI:49:VAL:HG13	24:YI:66:LEU:HD11	1.91	0.51
1:A2:391:MET:O	1:A2:395:LYS:HG3	2.11	0.51
2:AE:137:ILE:HG22	2:AE:139:HIS:ND1	2.25	0.51
2:AE:333:ALA:O	2:AE:337:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:113:VAL:HA	3:AF:116:VAL:HG22	1.93	0.51
2:AG:273:ALA:HB2	2:AG:295:CYS:HB3	1.92	0.51
2:AI:408:TYR:O	2:AI:411:GLU:HG3	2.11	0.51
4:B2:325:SER:OG	4:B2:326:ASN:ND2	2.44	0.51
3:BF:21:TRP:CZ3	3:BF:61:PRO:HB3	2.46	0.51
2:BG:419:SER:O	2:BG:422:ARG:HG2	2.10	0.51
2:BI:79:ARG:HG2	11:H4:20:TYR:CZ	2.45	0.51
5:C3:121:ARG:CZ	5:C4:378:THR:HB	2.40	0.51
5:C4:410:GLU:OE1	5:C4:410:GLU:N	2.43	0.51
5:C7:179:ARG:O	5:C7:183:ARG:HG2	2.11	0.51
3:CF:214:THR:HG21	3:CF:273:LEU:HB3	1.93	0.51
2:CG:39:ASP:HB3	10:G5:231:ARG:CZ	2.40	0.51
3:CH:249:ASP:OD2	3:CH:251:ARG:HB2	2.11	0.51
2:CI:272:TYR:HD2	2:CI:275:VAL:HG13	1.75	0.51
2:CI:415:GLU:HA	2:CI:418:PHE:HD2	1.75	0.51
3:CJ:227:HIS:ND1	9:G2:314:GLU:OE1	2.44	0.51
6:D3:116:GLU:HB3	6:D3:119:ARG:HH21	1.76	0.51
6:D3:407:ASP:O	6:D3:410:MET:HG3	2.11	0.51
6:D8:236:THR:OG1	6:D8:237:GLN:N	2.43	0.51
3:DD:269:GLY:HA3	3:DD:367:PHE:HD2	1.74	0.51
2:DE:2:ARG:CZ	2:DE:242:LEU:HA	2.40	0.51
3:EF:86:ARG:HE	3:EF:87:PRO:HD2	1.75	0.51
3:EF:263:LEU:HD21	3:EF:421:GLU:OE2	2.11	0.51
3:EH:282:ARG:HH22	3:EH:292:GLN:CD	2.14	0.51
3:EH:321:MET:N	3:EH:321:MET:SD	2.84	0.51
3:FD:48:ASN:O	3:FD:62:ARG:NH2	2.44	0.51
2:FE:209:ILE:HG21	2:FE:227:LEU:HG	1.91	0.51
2:FE:397:LEU:HB3	2:FE:401:LYS:NZ	2.25	0.51
3:FH:251:ARG:O	3:FH:255:VAL:HG22	2.10	0.51
9:G1:103:PHE:HD2	9:G1:179:LYS:HE3	1.76	0.51
2:GG:66:VAL:HG12	2:GG:68:VAL:HG13	1.92	0.51
11:H3:252:PHE:HB2	11:H3:255:ARG:NH2	2.24	0.51
2:HE:244:PHE:HB2	2:HE:356:ASN:HD21	1.76	0.51
3:HF:6:HIS:CD2	3:HF:21:TRP:HE1	2.28	0.51
2:HG:260:VAL:O	3:HH:397:TRP:HH2	1.92	0.51
2:HI:397:LEU:O	2:HI:401:LYS:HG2	2.10	0.51
3:IF:31:ASP:OD1	3:IF:35:THR:N	2.43	0.51
2:IG:116:ASP:OD1	2:IG:117:LEU:N	2.43	0.51
2:IG:260:VAL:HG23	2:IG:265:ILE:O	2.10	0.51
3:IH:189:VAL:HA	3:IH:192:LEU:HB2	1.91	0.51
2:II:117:LEU:O	2:II:121:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:325:GLU:OE1	3:JD:325:GLU:N	2.34	0.51
3:JF:114:ASP:N	3:JF:114:ASP:OD1	2.43	0.51
2:JG:260:VAL:HG23	2:JG:265:ILE:O	2.11	0.51
2:JG:333:ALA:O	2:JG:337:THR:HG23	2.11	0.51
3:JH:415:MET:O	3:JH:419:VAL:HG23	2.09	0.51
14:K3:488:THR:C	14:K3:490:ALA:H	2.14	0.51
14:K4:235:ASP:OD1	14:K4:236:PHE:N	2.44	0.51
3:KF:172:SER:HB3	3:KF:175:VAL:O	2.10	0.51
3:KF:306:ARG:O	3:KF:306:ARG:NE	2.43	0.51
2:KG:5:ILE:HB	2:KG:135:PHE:HD1	1.74	0.51
15:L3:49:MET:HA	3:LH:121:ARG:HD3	1.93	0.51
15:L3:145:TYR:O	15:L3:151:TYR:OH	2.18	0.51
15:L3:185:MET:SD	15:L3:251:TYR:OH	2.60	0.51
15:L3:235:LYS:HA	15:L3:238:GLU:HG3	1.93	0.51
3:LD:8:GLN:NE2	3:LD:21:TRP:HE1	2.09	0.51
3:LF:11:GLN:OE1	25:LF:501:GTP:N2	2.44	0.51
3:LF:77:ARG:O	3:LF:82:GLY:HA3	2.10	0.51
3:LH:211:CYS:HA	3:LH:215:LEU:HB2	1.92	0.51
2:LI:113:GLU:OE1	2:LI:113:GLU:N	2.44	0.51
2:LI:329:ASN:HA	2:LI:332:ILE:HG12	1.92	0.51
16:M3:52:ILE:HD11	16:M3:89:PHE:CD1	2.46	0.51
2:MG:46:ASP:HA	2:MG:50:ASN:HB3	1.91	0.51
2:MG:135:PHE:HB2	2:MG:137:ILE:HD11	1.93	0.51
3:MH:296:ALA:HB1	3:MH:304:ASP:OD2	2.11	0.51
3:ND:46:ARG:NH2	2:NE:73:THR:HG23	2.22	0.51
2:NE:3:GLU:HA	2:NE:51:THR:OG1	2.10	0.51
2:NE:189:LEU:HA	2:NE:192:HIS:HE1	1.73	0.51
2:NE:255:PHE:CZ	2:NE:318:LEU:HD21	2.46	0.51
3:NF:302:ALA:HB1	3:NF:377:LEU:HD11	1.93	0.51
3:NF:320:ARG:HA	3:NF:320:ARG:NH1	2.26	0.51
2:NG:116:ASP:N	2:NG:116:ASP:OD1	2.44	0.51
2:NG:125:LEU:O	2:NG:128:LEU:HG	2.11	0.51
3:OD:3:GLU:HB2	3:OD:49:VAL:O	2.10	0.51
3:OD:322:SER:OG	3:OD:324:LYS:NZ	2.41	0.51
2:OE:214:ARG:HH12	2:OE:215:ARG:HE	1.59	0.51
2:OG:188:ILE:HG12	2:OG:421:ALA:HB1	1.92	0.51
19:P1:30:LEU:HD13	19:P1:41:TYR:HB3	1.92	0.51
19:P1:354:LYS:O	19:P1:372:VAL:HB	2.11	0.51
19:P2:57:GLN:NE2	19:P2:364:LYS:HE3	2.26	0.51
19:P2:501:ALA:HB3	19:P2:503:THR:HG22	1.93	0.51
3:PF:137:HIS:HE1	3:PF:166:THR:HB	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:357:PRO:O	3:PF:359:ARG:NH1	2.37	0.51
3:PH:12:CYS:HA	3:PH:15:GLN:HE22	1.76	0.51
3:PH:233:MET:O	3:PH:237:THR:HG23	2.10	0.51
2:PI:146:GLY:N	25:PI:501:GTP:O2B	2.43	0.51
20:Q1:1414:LEU:H	20:Q1:1418:MET:CE	2.23	0.51
20:Q1:1456:ARG:O	20:Q1:1460:THR:HG23	2.11	0.51
20:Q2:1475:ARG:O	20:Q2:1479:ARG:NE	2.32	0.51
3:QF:291:GLN:NE2	3:QF:295:ASP:OD2	2.43	0.51
3:QH:180:VAL:HG23	3:QH:183:TYR:HD2	1.76	0.51
3:RF:261:PRO:O	3:RF:264:HIS:NE2	2.44	0.51
3:RF:415:MET:O	3:RF:419:VAL:HG23	2.11	0.51
2:RI:5:ILE:HD11	2:RI:129:CYS:SG	2.51	0.51
2:RI:166:LYS:O	2:RI:199:ASP:HB2	2.11	0.51
2:SE:75:VAL:HA	2:SE:78:VAL:HG12	1.93	0.51
3:SF:149:THR:HA	3:SF:152:ILE:HG12	1.91	0.51
2:SG:17:GLY:O	2:SG:21:TRP:HE3	1.94	0.51
3:SJ:72:THR:OG1	3:SJ:73:MET:SD	2.69	0.51
2:TG:192:HIS:HA	2:TG:195:LEU:HD23	1.92	0.51
3:TH:290:THR:HG21	3:TH:329:GLN:OE1	2.11	0.51
3:TH:311:LEU:HD23	3:TH:342:VAL:HG21	1.92	0.51
2:TI:175:PRO:HG2	2:TI:304:LYS:HB2	1.93	0.51
3:TJ:376:GLU:HA	3:TJ:379:LYS:HG2	1.92	0.51
2:UE:5:ILE:O	2:UE:135:PHE:HA	2.10	0.51
2:UG:216:ASN:O	2:UG:277:SER:HB3	2.11	0.51
3:VD:197:ASP:OD1	3:VD:198:GLU:N	2.40	0.51
2:VE:234:ILE:HD11	2:VE:272:TYR:HB2	1.92	0.51
3:VF:3:GLU:HG2	3:VF:130:LEU:HD23	1.92	0.51
3:VF:156:ARG:NH1	3:VF:195:ASN:O	2.43	0.51
3:VF:322:SER:OG	3:VF:324:LYS:NZ	2.37	0.51
2:WE:216:ASN:HB2	2:WE:276:ILE:HD12	1.93	0.51
2:WE:224:TYR:CE1	25:WE:501:GTP:C5	2.93	0.51
3:WF:204:ASN:OD1	3:WF:205:GLU:N	2.44	0.51
2:WG:190:THR:O	2:WG:194:THR:OG1	2.21	0.51
2:WI:252:LEU:HA	2:WI:255:PHE:CD2	2.46	0.51
22:XE:60:THR:OG1	22:XE:155:GLN:HG3	2.11	0.51
24:YN:26:ILE:HA	24:YN:29:LEU:HD12	1.93	0.51
1:A2:244:GLN:NE2	4:B3:241:GLU:OE1	2.38	0.51
1:A3:160:GLN:OE1	1:A3:164:ASN:ND2	2.42	0.51
2:AE:28:HIS:HE1	2:AE:243:ARG:HD2	1.76	0.51
2:AE:331:ALA:O	2:AE:334:THR:OG1	2.25	0.51
2:AG:363:VAL:H	2:AG:368:LEU:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:99:ALA:HB3	2:AI:145:THR:HG22	1.93	0.51
4:B7:200:SER:H	4:B8:316:THR:CG2	2.24	0.51
2:BE:11:GLN:HA	2:BE:14:VAL:HG22	1.92	0.51
3:BF:42:LEU:HD13	3:BF:356:ILE:HG13	1.93	0.51
3:BF:412:GLU:HA	3:BF:415:MET:HG3	1.93	0.51
2:BG:304:LYS:HD2	2:BG:304:LYS:N	2.26	0.51
2:BG:325:PRO:O	2:BG:329:ASN:ND2	2.44	0.51
3:CF:102:ALA:HB1	3:CF:401:GLU:HG3	1.93	0.51
3:CF:240:LEU:HD22	3:CF:248:ALA:HB1	1.91	0.51
2:CG:83:TYR:HB3	2:CG:86:LEU:HD12	1.92	0.51
2:CG:196:GLU:OE1	2:CG:196:GLU:N	2.28	0.51
2:CI:12:ALA:O	2:CI:15:GLN:HB2	2.11	0.51
2:CI:370:LYS:HD2	9:G2:236:LEU:HD22	1.91	0.51
6:D2:78:ARG:NH2	6:D3:331:ASP:HB3	2.24	0.51
6:D3:186:ILE:HD12	6:D3:289:THR:HG23	1.93	0.51
6:D3:427:ARG:HD2	2:LE:38:SER:OG	2.11	0.51
6:D3:444:ALA:HB1	6:D3:447:GLN:HB3	1.91	0.51
2:DE:27:GLU:HB3	2:DE:361:THR:HG21	1.93	0.51
2:DG:314:ALA:HB1	2:DG:352:LYS:HZ2	1.75	0.51
3:EF:4:ILE:CD1	3:EF:131:GLN:HB2	2.39	0.51
3:EF:304:ASP:O	3:EF:307:HIS:ND1	2.36	0.51
2:EG:15:GLN:CD	25:EG:501:GTP:N1	2.60	0.51
2:EG:24:TYR:HA	2:EG:27:GLU:HG3	1.91	0.51
2:EG:207:GLU:HB2	2:EG:304:LYS:HZ1	1.75	0.51
8:F6:471:SER:OG	8:F6:472:MET:SD	2.69	0.51
2:FE:276:ILE:O	2:FE:369:ALA:HB2	2.10	0.51
2:FE:338:LYS:HZ2	2:FE:340:THR:H	1.57	0.51
3:FF:31:ASP:N	3:FF:31:ASP:OD1	2.44	0.51
9:G1:301:LEU:HD13	9:G1:320:VAL:HA	1.92	0.51
10:G5:114:GLN:NE2	10:G5:131:ILE:O	2.43	0.51
3:GD:151:LEU:O	3:GD:155:ILE:HG12	2.11	0.51
3:GF:14:ASN:ND2	3:GF:67:ASP:OD2	2.42	0.51
25:GH:502:GTP:H5''	2:GI:12:ALA:HB2	1.92	0.51
3:HH:180:VAL:HG13	3:HH:184:ASN:OD1	2.10	0.51
2:HI:179:THR:OG1	25:HI:501:GTP:O3'	2.27	0.51
2:IG:272:TYR:HD2	2:IG:275:VAL:HG13	1.75	0.51
2:IG:336:LYS:HG2	2:IG:343:PHE:HE2	1.76	0.51
2:II:302:MET:N	2:II:302:MET:SD	2.84	0.51
13:J2:80:LEU:H	13:J2:151:GLN:NE2	2.08	0.51
3:JH:8:GLN:CD	3:JH:17:GLY:HA3	2.32	0.51
3:JH:164:MET:N	3:JH:164:MET:SD	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K2:387:LEU:O	14:K2:387:LEU:HD23	2.10	0.51
14:K3:391:GLU:O	14:K3:392:LYS:C	2.48	0.51
14:K3:473:CYS:SG	14:K3:476:GLN:NE2	2.74	0.51
2:KE:332:ILE:HD11	3:KF:175:VAL:HG11	1.93	0.51
2:KE:416:GLY:O	2:KE:420:GLU:HG2	2.11	0.51
2:KG:245:ASP:HA	2:KG:249:ASN:HD21	1.76	0.51
3:KH:346:PRO:HG2	2:KI:394:LYS:NZ	2.26	0.51
2:KI:256:GLN:O	2:KI:260:VAL:HG12	2.11	0.51
2:KI:285:GLN:NE2	2:KI:286:LEU:O	2.44	0.51
2:KI:338:LYS:HZ2	2:KI:339:ARG:H	1.57	0.51
3:LD:172:SER:OG	3:LD:205:GLU:OE2	2.23	0.51
2:LE:16:ILE:HD11	2:LE:138:PHE:HB3	1.93	0.51
3:LF:412:GLU:OE1	3:LF:416:ASN:ND2	2.37	0.51
2:LG:329:ASN:HB2	3:LH:174:LYS:NZ	2.25	0.51
3:LH:218:THR:O	3:LH:220:PRO:HD3	2.11	0.51
3:LH:256:ASN:HB3	3:LH:350:LYS:HG3	1.92	0.51
2:ME:192:HIS:HA	2:ME:195:LEU:HD23	1.93	0.51
2:ME:220:GLU:N	2:ME:220:GLU:OE1	2.44	0.51
2:ME:248:LEU:C	2:ME:249:ASN:HD22	2.14	0.51
2:MG:12:ALA:HA	25:MG:501:GTP:C2	2.46	0.51
2:MG:252:LEU:HD12	2:MG:253:THR:N	2.24	0.51
3:MH:198:GLU:HG2	3:MH:266:PHE:CE2	2.46	0.51
2:MI:51:THR:HG23	2:MI:52:PHE:CD2	2.46	0.51
2:NE:257:THR:HG22	3:NF:397:TRP:CD1	2.45	0.51
2:NE:272:TYR:CZ	2:NE:274:PRO:HG2	2.46	0.51
3:NF:347:ASN:HB3	2:NG:178:SER:HB3	1.92	0.51
2:NG:142:GLY:HA2	2:NG:183:GLU:OE1	2.11	0.51
2:OG:67:PHE:HB2	2:OG:92:LEU:HD23	1.92	0.51
2:OG:83:TYR:O	2:OG:86:LEU:HB2	2.11	0.51
2:OG:427:ALA:HA	2:OG:430:LYS:HG2	1.92	0.51
19:P1:115:GLU:N	19:P1:129:LEU:O	2.37	0.51
19:P2:82:GLY:HA2	19:P2:92:ASP:O	2.11	0.51
3:PF:316:VAL:HA	3:PF:352:ALA:O	2.11	0.51
3:PH:216:LYS:O	3:PH:276:ARG:NH2	2.44	0.51
2:PI:6:SER:HA	2:PI:136:LEU:O	2.11	0.51
2:QE:256:GLN:O	2:QE:260:VAL:HG12	2.11	0.51
3:QF:81:PHE:HD2	3:QF:84:ILE:HG13	1.75	0.51
2:QI:229:ARG:HE	2:QI:363:VAL:CG1	2.23	0.51
2:RE:272:TYR:CZ	2:RE:274:PRO:HG2	2.45	0.51
2:RI:332:ILE:HG13	2:RI:336:LYS:NZ	2.26	0.51
2:SE:233:GLN:HE22	2:SE:234:ILE:HD13	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:265:ILE:HB	2:SE:432:TYR:HE1	1.76	0.51
2:SG:288:VAL:HA	2:SG:291:ILE:HG12	1.91	0.51
3:SH:5:VAL:HG22	3:SH:62:ARG:HB3	1.93	0.51
3:TF:253:LEU:O	3:TF:257:MET:HG2	2.10	0.51
2:TG:31:GLN:NE2	2:TG:37:PRO:HD3	2.26	0.51
2:TG:430:LYS:HA	2:TG:433:GLU:CD	2.30	0.51
3:TH:12:CYS:HB3	25:TH:501:GTP:O4'	2.11	0.51
3:TH:84:ILE:O	3:TH:86:ARG:NH1	2.44	0.51
3:TH:111:GLU:OE1	3:TH:111:GLU:N	2.38	0.51
2:TI:189:LEU:HA	2:TI:192:HIS:ND1	2.26	0.51
3:TJ:3:GLU:OE2	3:TJ:127:CYS:HB2	2.11	0.51
3:TJ:262:ARG:NH2	3:TJ:425:TYR:OH	2.43	0.51
3:UD:261:PRO:O	3:UD:264:HIS:NE2	2.44	0.51
3:UF:269:GLY:O	3:UF:367:PHE:N	2.38	0.51
2:UG:98:ASP:OD1	2:UG:99:ALA:N	2.44	0.51
2:UG:269:LEU:O	2:UG:378:LEU:HA	2.11	0.51
3:UH:260:PHE:CD2	3:UH:425:TYR:HE2	2.28	0.51
3:UH:375:GLN:HA	3:UH:378:PHE:CZ	2.46	0.51
3:VF:80:PRO:O	3:VF:83:GLN:NE2	2.30	0.51
2:WE:1:MET:O	2:WE:131:GLY:HA3	2.10	0.51
2:WE:315:CYS:O	2:WE:351:PHE:HA	2.10	0.51
22:XD:173:SER:OG	22:XD:176:GLU:OE1	2.29	0.51
24:YJ:103:LEU:HD13	24:YJ:144:VAL:HG22	1.92	0.51
24:YK:3:GLU:HA	24:YK:6:GLU:HG2	1.93	0.51
2:AE:103:TYR:OH	2:AE:193:THR:HG21	2.11	0.51
3:AH:139:LEU:N	3:AH:168:SER:OG	2.43	0.51
2:BG:345:ASP:N	2:BG:345:ASP:OD1	2.44	0.51
3:DD:31:ASP:OD2	3:DD:33:THR:OG1	2.29	0.51
3:DD:48:ASN:OD1	11:H3:288:PHE:HB3	2.11	0.51
2:DG:107:HIS:HD2	2:DG:152:LEU:HB2	1.74	0.51
3:DH:270:PHE:CG	3:DH:271:ALA:N	2.79	0.51
3:ED:20:PHE:CE1	3:ED:24:ILE:HD11	2.46	0.51
3:ED:155:ILE:HA	3:ED:158:GLU:HB2	1.91	0.51
2:EE:85:GLN:HG2	2:EE:86:LEU:HD22	1.93	0.51
3:EF:214:THR:HG21	3:EF:273:LEU:HD13	1.93	0.51
2:EG:47:ASP:O	2:EG:49:PHE:N	2.44	0.51
8:F2:368:ILE:HG22	8:F2:444:LEU:HG	1.93	0.51
8:F2:409:ARG:HG3	8:F3:289:THR:HG21	1.93	0.51
2:FG:214:ARG:NH1	2:FG:215:ARG:HG2	2.26	0.51
9:G2:161:ASP:N	9:G2:161:ASP:OD1	2.44	0.51
9:G2:511:TYR:HA	9:G2:514:LYS:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G5:341:GLY:H	10:G5:353:LEU:HB2	1.75	0.51
10:G5:737:ASP:N	10:G5:737:ASP:OD1	2.44	0.51
2:GE:11:GLN:OE1	25:GE:501:GTP:PG	2.67	0.51
2:GG:3:GLU:OE1	2:GG:3:GLU:N	2.43	0.51
2:GG:30:ILE:HA	2:GG:36:MET:HE1	1.93	0.51
3:GH:334:GLN:O	3:GH:338:SER:OG	2.16	0.51
3:HD:130:LEU:HB2	3:HD:162:ARG:NH1	2.26	0.51
2:HE:417:GLU:OE1	2:HE:417:GLU:N	2.42	0.51
3:HF:4:ILE:HD11	3:HF:131:GLN:HB2	1.91	0.51
3:HF:198:GLU:HG2	3:HF:266:PHE:HE2	1.76	0.51
2:HG:27:GLU:HG2	2:HG:28:HIS:N	2.25	0.51
3:HH:209:ASP:O	3:HH:213:ARG:HG2	2.11	0.51
3:HH:390:ARG:HG2	3:HH:391:ARG:HG3	1.93	0.51
2:HI:331:ALA:O	2:HI:335:ILE:HG12	2.11	0.51
3:IF:324:LYS:HE2	2:IG:222:PRO:HG2	1.91	0.51
2:II:15:GLN:HB3	2:II:228:ASN:ND2	2.26	0.51
2:II:53:PHE:HB3	2:II:61:HIS:HB3	1.93	0.51
3:JF:415:MET:O	3:JF:419:VAL:HG23	2.11	0.51
14:K3:374:THR:HA	14:K3:377:ILE:HG22	1.92	0.51
3:KF:35:THR:HG22	3:KF:58:LYS:HE3	1.92	0.51
2:KG:331:ALA:O	2:KG:335:ILE:HG12	2.11	0.51
2:KG:427:ALA:HA	2:KG:430:LYS:HG2	1.92	0.51
3:KH:271:ALA:HB2	3:KH:365:ALA:O	2.11	0.51
15:L2:158:ILE:HD12	15:L2:161:ARG:HB2	1.93	0.51
3:LH:15:GLN:NE2	25:LH:501:GTP:C2	2.74	0.51
2:LI:264:ARG:O	2:LI:266:HIS:ND1	2.28	0.51
2:ME:311:LYS:HZ3	2:ME:342:GLN:HB3	1.76	0.51
2:MG:6:SER:O	2:MG:65:ALA:HA	2.10	0.51
3:MH:185:ALA:O	3:MH:189:VAL:HG13	2.11	0.51
17:N3:166:PHE:HZ	2:WI:214:ARG:HB2	1.74	0.51
3:ND:12:CYS:SG	25:ND:501:GTP:H5'	2.51	0.51
18:O2:8:ASN:O	18:O2:10:TYR:N	2.42	0.51
2:OE:345:ASP:N	2:OE:345:ASP:OD1	2.44	0.51
3:OF:374:ILE:HA	3:OF:377:LEU:HD13	1.92	0.51
2:OG:166:LYS:O	2:OG:199:ASP:HB2	2.11	0.51
3:OH:33:THR:O	3:OH:58:LYS:NZ	2.39	0.51
3:OH:46:ARG:O	3:OH:49:VAL:HG12	2.11	0.51
2:OI:75:VAL:HG11	2:OI:94:THR:HB	1.92	0.51
2:OI:345:ASP:OD1	2:OI:345:ASP:N	2.44	0.51
2:OI:388:TRP:HB3	2:OI:425:LEU:HD11	1.93	0.51
19:P1:134:ASP:OD2	19:P1:136:SER:OG	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P2:122:ASN:ND2	19:P2:171:ASP:OD1	2.38	0.51
19:P2:506:GLN:NE2	19:P2:549:ASN:O	2.44	0.51
2:PE:116:ASP:N	2:PE:116:ASP:OD1	2.44	0.51
2:PE:224:TYR:O	2:PE:228:ASN:ND2	2.42	0.51
2:PG:205:ASP:OD2	2:PG:304:LYS:NZ	2.44	0.51
3:PH:51:TYR:CD1	3:PH:61:PRO:HA	2.46	0.51
2:PI:311:LYS:HE3	2:PI:344:VAL:HG12	1.92	0.51
20:Q2:1468:LEU:HA	20:Q2:1506:SER:HA	1.93	0.51
2:QE:89:PRO:HB2	2:QE:90:GLU:OE1	2.11	0.51
3:QF:134:GLN:N	3:QF:134:GLN:OE1	2.43	0.51
2:QG:49:PHE:HE1	2:QG:55:GLU:H	1.59	0.51
3:QH:155:ILE:HA	3:QH:158:GLU:CG	2.41	0.51
3:QH:313:VAL:HG23	3:QH:349:VAL:HA	1.93	0.51
2:RE:363:VAL:H	2:RE:368:LEU:HD21	1.76	0.51
2:RG:274:PRO:HG3	2:RG:374:ALA:HA	1.93	0.51
3:SF:28:HIS:ND1	3:SF:43:GLN:HB2	2.26	0.51
2:SG:257:THR:HA	3:SH:397:TRP:CZ2	2.45	0.51
2:SI:107:HIS:HA	2:SI:152:LEU:HD11	1.92	0.51
3:TF:187:LEU:O	3:TF:191:GLN:NE2	2.44	0.51
3:TH:234:SER:O	3:TH:238:THR:HG23	2.11	0.51
2:TI:121:ARG:HA	2:TI:124:LYS:HG3	1.92	0.51
2:TI:264:ARG:O	2:TI:266:HIS:ND1	2.43	0.51
3:UD:5:VAL:HG22	3:UD:62:ARG:HB3	1.93	0.51
3:UD:204:ASN:HA	3:UD:207:LEU:HD12	1.93	0.51
3:UF:415:MET:O	3:UF:419:VAL:HG23	2.11	0.51
2:UG:79:ARG:HH21	2:UG:92:LEU:HB2	1.75	0.51
3:UH:182:PRO:HA	3:UH:381:ILE:HD11	1.92	0.51
3:UH:214:THR:O	3:UH:276:ARG:NH1	2.36	0.51
3:UH:267:MET:O	3:UH:368:ILE:HD12	2.11	0.51
3:VF:12:CYS:HB3	25:VF:501:GTP:H5'	1.93	0.51
3:VF:85:PHE:HB3	3:VF:90:PHE:HZ	1.76	0.51
3:VH:12:CYS:SG	25:VH:501:GTP:H5'	2.50	0.51
2:WE:5:ILE:HD13	2:WE:64:ARG:HB3	1.93	0.51
2:WE:16:ILE:HD11	2:WE:138:PHE:HB3	1.91	0.51
2:WG:22:GLU:O	2:WG:26:LEU:HD23	2.11	0.51
2:WG:185:TYR:HA	2:WG:395:PHE:HE2	1.75	0.51
2:WG:230:LEU:O	2:WG:234:ILE:HG12	2.11	0.51
22:XC:86:TYR:HA	22:XC:107:ASN:ND2	2.23	0.51
22:XE:24:ILE:HG13	22:XE:62:PRO:HA	1.93	0.51
1:A3:43:ARG:O	1:A3:46:GLU:HG3	2.10	0.51
2:AI:152:LEU:HA	2:AI:155:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:371:VAL:HG11	2:AI:374:ALA:HB2	1.93	0.51
4:B7:342:VAL:O	4:B7:346:GLU:HG3	2.11	0.51
2:BG:30:ILE:HD13	2:BG:36:MET:HE3	1.92	0.51
2:BG:91:GLN:HB2	2:BG:121:ARG:HH21	1.75	0.51
2:BG:203:MET:HE1	2:BG:267:PHE:HB3	1.91	0.51
2:BG:225:THR:O	2:BG:229:ARG:NE	2.40	0.51
2:BG:230:LEU:O	2:BG:233:GLN:HG3	2.10	0.51
3:BH:78:SER:HA	10:G5:322:LYS:HD2	1.93	0.51
3:BH:342:VAL:HB	3:BH:344:TRP:HE3	1.75	0.51
5:C8:403:ARG:NH2	5:C8:417:GLN:HE22	2.07	0.51
3:CJ:186:THR:HG23	3:CJ:385:PHE:CZ	2.46	0.51
3:CJ:234:SER:O	3:CJ:238:THR:HG23	2.10	0.51
6:D8:335:GLN:NE2	6:D9:78:ARG:HB2	2.26	0.51
2:DE:12:ALA:HB1	25:DE:501:GTP:N2	2.26	0.51
3:DF:197:ASP:OD1	3:DF:198:GLU:N	2.44	0.51
3:DH:217:LEU:HD11	3:DH:220:PRO:HB3	1.93	0.51
3:ED:266:PHE:HB3	3:ED:368:ILE:HD11	1.93	0.51
2:EE:290:GLU:OE1	2:EE:290:GLU:N	2.32	0.51
3:EF:96:GLY:O	3:EF:103:LYS:NZ	2.40	0.51
2:EG:88:HIS:HE1	2:EG:90:GLU:HG2	1.76	0.51
2:EG:326:LYS:HD3	3:EH:220:PRO:HG2	1.93	0.51
8:F2:227:ASP:HB3	8:F2:231:LYS:NZ	2.26	0.51
8:F3:263:ILE:HA	8:F3:266:ASN:HD21	1.76	0.51
8:F6:238:PHE:HA	8:F6:241:ARG:HG2	1.92	0.51
8:F7:450:ARG:HA	8:F7:453:HIS:CE1	2.46	0.51
3:FF:190:HIS:ND1	3:FF:411:ALA:HA	2.25	0.51
2:FG:388:TRP:HB3	2:FG:429:GLU:OE2	2.10	0.51
3:GD:2:ARG:NE	3:GD:129:CYS:HB3	2.26	0.51
3:GF:330:MET:HG3	3:GF:349:VAL:HG11	1.93	0.51
3:GH:88:ASP:OD1	3:GH:89:ASN:N	2.44	0.51
3:HD:262:ARG:HE	3:HD:421:GLU:CD	2.14	0.51
2:HE:12:ALA:HB1	25:HE:501:GTP:N3	2.26	0.51
2:HG:214:ARG:NH1	2:HG:215:ARG:HG3	2.26	0.51
2:IE:208:ALA:N	2:IE:304:LYS:HZ1	2.09	0.51
3:IF:14:ASN:HB3	3:IF:76:VAL:HG21	1.93	0.51
3:IH:12:CYS:SG	3:IH:13:GLY:N	2.84	0.51
3:JD:376:GLU:HA	3:JD:379:LYS:HE3	1.93	0.51
3:JF:240:LEU:HD22	3:JF:248:ALA:HB1	1.93	0.51
2:JG:391:LEU:HA	2:JG:394:LYS:HZ1	1.75	0.51
14:K4:111:LEU:HD13	14:K4:114:HIS:CE1	2.46	0.51
3:KF:217:LEU:O	3:KF:219:THR:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KG:215:ARG:HH22	2:KG:300:ASN:HA	1.75	0.51
3:KH:86:ARG:NE	3:KH:86:ARG:HA	2.26	0.51
15:L2:125:TYR:CD2	15:L2:136:LEU:HB2	2.43	0.51
3:LD:21:TRP:CZ3	3:LD:61:PRO:HB3	2.46	0.51
3:LD:105:HIS:ND1	3:LD:149:THR:OG1	2.44	0.51
2:LE:101:ASN:OD1	2:LE:144:GLY:HA2	2.11	0.51
3:LF:40:SER:O	3:LF:43:GLN:HG2	2.10	0.51
3:LF:117:LEU:HB3	3:LF:121:ARG:NH1	2.23	0.51
2:LG:338:LYS:HZ3	2:LG:339:ARG:H	1.58	0.51
2:LI:338:LYS:HA	2:LI:339:ARG:NH1	2.25	0.51
16:M3:80:TYR:CE2	16:M3:82:GLY:HA3	2.46	0.51
17:N2:66:ILE:HG21	17:N2:72:ASP:OD1	2.10	0.51
17:N3:67:PRO:HD2	17:N3:71:LEU:HD22	1.93	0.51
2:NE:306:ASP:OD2	2:NE:309:HIS:ND1	2.44	0.51
3:NF:74:ASP:O	3:NF:77:ARG:HG2	2.11	0.51
3:NF:273:LEU:H	3:NF:292:GLN:NE2	1.96	0.51
2:NG:88:HIS:O	2:NG:91:GLN:HG2	2.11	0.51
3:OF:226:ASN:O	3:OF:230:SER:OG	2.20	0.51
2:OG:260:VAL:O	3:OH:397:TRP:HH2	1.94	0.51
2:OI:166:LYS:O	2:OI:199:ASP:HB2	2.11	0.51
2:PE:9:VAL:HG11	2:PE:150:ALA:HB2	1.92	0.51
2:PE:109:THR:O	2:PE:112:LYS:NZ	2.44	0.51
2:PE:227:LEU:O	2:PE:230:LEU:HG	2.11	0.51
3:QF:87:PRO:HA	3:QF:90:PHE:CD2	2.46	0.51
3:QF:286:VAL:HG11	3:QF:325:GLU:HB2	1.93	0.51
3:QH:47:ILE:HG21	3:QH:59:TYR:CZ	2.46	0.51
2:QI:266:HIS:C	2:QI:268:PRO:HD3	2.32	0.51
2:RE:272:TYR:HE1	2:RE:374:ALA:HB1	1.75	0.51
2:RE:306:ASP:OD2	2:RE:308:ARG:HG2	2.11	0.51
3:RF:322:SER:OG	3:RF:323:MET:N	2.44	0.51
2:RG:12:ALA:HB1	25:RG:501:GTP:N3	2.26	0.51
3:RH:211:CYS:HA	3:RH:215:LEU:HB2	1.93	0.51
3:RJ:312:THR:HG22	3:RJ:370:ASN:HB2	1.93	0.51
3:SH:103:LYS:O	3:SH:108:GLU:N	2.35	0.51
3:SJ:334:GLN:HA	3:SJ:341:PHE:CE2	2.38	0.51
3:TH:329:GLN:O	3:TH:333:VAL:HG22	2.11	0.51
2:TI:189:LEU:O	2:TI:192:HIS:ND1	2.44	0.51
3:TJ:251:ARG:O	3:TJ:255:VAL:HG22	2.11	0.51
3:UD:330:MET:HG3	3:UD:349:VAL:HG11	1.93	0.51
2:UE:116:ASP:OD1	2:UE:117:LEU:N	2.44	0.51
3:UF:387:ALA:O	3:UF:391:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:276:ILE:HD11	2:VG:280:LYS:HG2	1.92	0.51
2:VG:320:ARG:HD3	2:VG:360:PRO:HG3	1.93	0.51
3:VH:152:ILE:HA	3:VH:155:ILE:HG12	1.93	0.51
2:WE:196:GLU:OE1	2:WE:196:GLU:N	2.27	0.51
2:WE:384:ILE:HB	2:WE:388:TRP:HZ3	1.76	0.51
3:WF:69:GLU:OE1	3:WF:72:THR:N	2.40	0.51
3:WH:12:CYS:SG	3:WH:13:GLY:N	2.83	0.51
3:WH:99:ASN:OD1	3:WH:142:GLY:HA3	2.11	0.51
2:WI:10:GLY:O	2:WI:14:VAL:HG13	2.11	0.51
2:WI:105:ARG:O	2:WI:109:THR:OG1	2.22	0.51
2:WI:184:PRO:HB2	2:WI:395:PHE:CD1	2.46	0.51
22:XC:168:SER:HB2	22:XC:172:TYR:CE2	2.45	0.51
22:XD:79:ILE:HD13	22:XD:164:ARG:HB3	1.92	0.51
22:XE:96:ASP:OD1	22:XE:97:LYS:N	2.44	0.51
23:XK:171:LEU:HA	23:XK:174:TYR:CE2	2.46	0.51
24:YN:57:CYS:HA	24:YN:62:HIS:HB3	1.93	0.51
24:YN:144:VAL:HA	24:YN:147:PHE:HE1	1.71	0.51
1:A2:162:ARG:NH2	9:G1:199:ILE:HG12	2.26	0.50
3:AF:5:VAL:HG23	3:AF:130:LEU:HD11	1.92	0.50
3:AF:380:ARG:HA	3:AF:383:GLU:OE1	2.11	0.50
2:AG:31:GLN:N	2:AG:31:GLN:OE1	2.43	0.50
2:AG:254:GLU:HB2	2:AG:258:ASN:ND2	2.25	0.50
2:AI:27:GLU:N	2:AI:27:GLU:OE1	2.44	0.50
2:AI:192:HIS:CE1	2:AI:193:THR:HG23	2.46	0.50
2:BE:362:VAL:HA	2:BE:368:LEU:HD11	1.93	0.50
3:BF:238:THR:HG21	3:BF:318:ARG:NH1	2.26	0.50
2:BI:25:CYS:SG	2:BI:26:LEU:HD22	2.51	0.50
2:BI:30:ILE:HD13	2:BI:36:MET:HE3	1.93	0.50
5:C7:214:GLU:HA	5:C7:217:LYS:HD2	1.92	0.50
3:CF:217:LEU:O	3:CF:219:THR:N	2.44	0.50
2:CG:48:SER:OG	2:CG:243:ARG:NE	2.44	0.50
2:CG:325:PRO:HD2	2:CG:326:LYS:HZ3	1.74	0.50
2:DE:286:LEU:H	2:DE:286:LEU:HD23	1.75	0.50
3:DH:28:HIS:CD2	3:DH:43:GLN:HB2	2.45	0.50
2:EG:326:LYS:HA	2:EG:329:ASN:HD21	1.75	0.50
3:EH:376:GLU:OE1	3:EH:376:GLU:N	2.42	0.50
3:FD:392:LYS:HG3	3:FD:395:LEU:HD13	1.93	0.50
2:FE:144:GLY:HA3	25:FE:501:GTP:O3G	2.11	0.50
2:FE:365:GLY:N	10:G5:706:ASP:OD2	2.27	0.50
3:FF:133:PHE:HZ	3:FF:159:TYR:HD2	1.59	0.50
3:FF:344:TRP:CE2	2:FG:401:LYS:HD3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:266:TYR:HE1	9:G1:268:LEU:HD13	1.75	0.50
10:G5:546:GLU:HA	10:G5:549:ILE:HD12	1.94	0.50
3:GD:415:MET:O	3:GD:419:VAL:HG23	2.11	0.50
2:GE:292:THR:HA	2:GE:295:CYS:SG	2.51	0.50
2:GG:33:ASP:OD1	2:GG:35:GLN:N	2.37	0.50
2:GI:133:GLN:HB3	2:GI:252:LEU:HD21	1.92	0.50
11:H3:16:TYR:HB3	11:H3:39:THR:HG21	1.93	0.50
3:HH:12:CYS:HB3	25:HH:501:GTP:O4'	2.11	0.50
3:IF:421:GLU:O	3:IF:424:GLN:HG2	2.10	0.50
2:IG:90:GLU:N	2:IG:90:GLU:OE1	2.43	0.50
3:JF:63:ALA:O	3:JF:89:ASN:ND2	2.44	0.50
2:JG:338:LYS:HZ2	2:JG:340:THR:N	2.07	0.50
3:JH:36:TYR:CE2	3:JH:44:LEU:HD13	2.46	0.50
14:K2:388:GLU:C	14:K2:391:GLU:H	2.13	0.50
14:K3:340:MET:O	14:K3:343:THR:OG1	2.19	0.50
14:K3:494:THR:OG1	3:LH:336:LYS:HE2	2.10	0.50
3:KD:323:MET:HE3	2:KE:224:TYR:N	2.26	0.50
2:KE:36:MET:SD	2:KE:37:PRO:HD2	2.51	0.50
2:KE:88:HIS:CE1	2:KE:90:GLU:H	2.28	0.50
3:KF:12:CYS:HA	25:KF:501:GTP:HN22	1.75	0.50
15:L2:80:ARG:NH2	2:LE:193:THR:HA	2.26	0.50
15:L3:163:GLU:HA	15:L3:166:LYS:HG2	1.94	0.50
3:LD:420:SER:O	3:LD:424:GLN:HB2	2.11	0.50
2:LG:70:LEU:HB3	2:LG:97:GLU:O	2.11	0.50
2:ME:228:ASN:HA	2:ME:231:ILE:HG22	1.92	0.50
2:MG:297:GLU:CD	2:MG:299:ALA:H	2.14	0.50
2:MI:3:GLU:N	2:MI:3:GLU:OE1	2.43	0.50
3:ND:132:GLY:HA2	3:ND:162:ARG:HB3	1.92	0.50
2:NE:220:GLU:HG2	2:NE:221:ARG:HG2	1.92	0.50
2:NE:346:TRP:HZ2	3:NF:391:ARG:HH11	1.58	0.50
2:NE:401:LYS:O	2:NE:402:ARG:HD3	2.11	0.50
2:NE:419:SER:O	2:NE:422:ARG:HG2	2.12	0.50
2:NG:4:CYS:SG	2:NG:134:GLY:N	2.84	0.50
2:NG:30:ILE:HG13	2:NG:53:PHE:CE2	2.45	0.50
2:NG:99:ALA:HB3	2:NG:145:THR:HA	1.92	0.50
2:NI:329:ASN:O	2:NI:332:ILE:HG22	2.11	0.50
18:O2:30:GLU:C	18:O2:31:LYS:HD3	2.32	0.50
3:OD:19:LYS:O	3:OD:22:GLU:HG3	2.12	0.50
3:OD:24:ILE:O	3:OD:27:GLU:HG2	2.11	0.50
3:OD:54:ALA:N	3:OD:58:LYS:O	2.29	0.50
2:OG:324:VAL:HG11	3:OH:219:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:140:SER:HA	2:OI:170:ALA:HB1	1.93	0.50
2:OI:215:ARG:NH1	2:OI:299:ALA:O	2.41	0.50
2:PE:264:ARG:O	2:PE:266:HIS:ND1	2.40	0.50
3:PF:7:LEU:HB2	3:PF:135:LEU:HG	1.93	0.50
3:PF:259:PRO:HD2	3:PF:263:LEU:HD21	1.93	0.50
2:PG:35:GLN:HG2	2:PG:59:GLY:O	2.11	0.50
2:PG:186:ASN:OD1	2:PG:187:SER:N	2.44	0.50
2:PG:209:ILE:HG21	2:PG:227:LEU:HG	1.93	0.50
20:Q1:1341:ARG:NH1	20:Q1:1445:PRO:HG3	2.27	0.50
20:Q1:1473:ASP:O	20:Q1:1477:VAL:HG12	2.11	0.50
20:Q2:1425:LYS:HE3	20:Q2:1512:ARG:HB2	1.93	0.50
2:QG:256:GLN:O	2:QG:260:VAL:HG12	2.11	0.50
3:QH:162:ARG:HA	3:QH:251:ARG:NH2	2.26	0.50
2:QI:185:TYR:O	2:QI:189:LEU:HG	2.12	0.50
2:QI:323:VAL:HG22	2:QI:324:VAL:H	1.76	0.50
3:RF:114:ASP:N	3:RF:114:ASP:OD1	2.43	0.50
2:RG:119:LEU:HA	2:RG:122:ILE:HG12	1.93	0.50
2:RI:206:ASN:HA	2:RI:209:ILE:HD12	1.93	0.50
2:SE:326:LYS:HA	2:SE:329:ASN:HD21	1.77	0.50
2:SE:368:LEU:H	2:SE:368:LEU:HD23	1.76	0.50
3:SF:6:HIS:HE1	3:SF:8:GLN:HB2	1.75	0.50
2:SG:333:ALA:O	2:SG:337:THR:HG23	2.10	0.50
2:SI:208:ALA:N	2:SI:304:LYS:HZ1	2.09	0.50
3:SJ:64:VAL:HG12	3:SJ:66:VAL:HG13	1.92	0.50
2:TI:121:ARG:CZ	2:TI:124:LYS:HE2	2.41	0.50
2:TI:125:LEU:HD13	2:TI:128:LEU:HD21	1.92	0.50
2:TI:176:GLN:NE2	2:TI:177:VAL:HG23	2.25	0.50
2:TI:182:VAL:HA	2:TI:185:TYR:HB2	1.93	0.50
2:TI:234:ILE:O	2:TI:237:SER:OG	2.23	0.50
3:TJ:262:ARG:HD3	3:TJ:262:ARG:H	1.76	0.50
3:UF:69:GLU:OE2	3:UF:97:ALA:N	2.43	0.50
3:UF:163:ILE:HD11	3:UF:251:ARG:HB2	1.93	0.50
3:UF:197:ASP:OD1	3:UF:198:GLU:N	2.44	0.50
3:UF:221:THR:OG1	3:UF:224:ASP:N	2.41	0.50
2:UG:161:TYR:HB3	2:UG:164:LYS:HZ2	1.75	0.50
3:UH:36:TYR:OH	3:UH:43:GLN:NE2	2.43	0.50
3:VD:113:VAL:HA	3:VD:116:VAL:HG22	1.93	0.50
25:VD:501:GTP:O3G	25:VD:501:GTP:O3'	2.19	0.50
2:VE:285:GLN:HE22	2:VE:287:SER:HB3	1.76	0.50
3:VF:224:ASP:O	3:VF:227:HIS:HB3	2.10	0.50
3:VF:226:ASN:HA	3:VF:229:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:6:HIS:HB3	3:VH:63:ALA:HB2	1.93	0.50
3:WH:392:LYS:O	3:WH:392:LYS:HD2	2.11	0.50
22:XE:123:MET:SD	22:XE:125:LEU:HB2	2.51	0.50
23:XK:64:ASP:N	23:XK:64:ASP:OD1	2.43	0.50
24:YN:59:ASN:O	24:YN:61:THR:N	2.45	0.50
2:AG:311:LYS:HG2	2:AG:342:GLN:HG2	1.92	0.50
2:AI:90:GLU:OE1	2:AI:90:GLU:N	2.44	0.50
4:B3:123:ARG:HH12	4:B3:383:THR:HA	1.76	0.50
3:BF:156:ARG:NH1	3:BF:195:ASN:O	2.40	0.50
2:BG:121:ARG:O	2:BG:124:LYS:HG3	2.11	0.50
5:C3:284:PHE:CZ	5:C4:397:GLN:HB2	2.46	0.50
5:C3:339:GLN:HA	5:C3:342:LYS:HG2	1.93	0.50
5:C3:379:ILE:O	5:C3:382:ILE:HG22	2.10	0.50
2:CG:119:LEU:HA	2:CG:122:ILE:HG22	1.93	0.50
2:CG:146:GLY:N	25:CG:501:GTP:O2B	2.45	0.50
2:CG:329:ASN:HA	2:CG:332:ILE:HG22	1.92	0.50
2:CI:30:ILE:HA	2:CI:36:MET:HE1	1.93	0.50
6:D3:197:ALA:O	6:D3:201:ILE:HG12	2.10	0.50
6:D4:363:ARG:CZ	6:D4:368:LEU:HA	2.41	0.50
6:D8:183:ILE:O	6:D8:187:GLN:HG2	2.11	0.50
3:DD:322:SER:OG	3:DD:324:LYS:NZ	2.43	0.50
3:DH:3:GLU:OE2	3:DH:127:CYS:HB2	2.11	0.50
3:EF:14:ASN:HB3	3:EF:76:VAL:HG21	1.92	0.50
2:FE:417:GLU:HA	2:FE:420:GLU:HG3	1.93	0.50
9:G2:133:VAL:N	9:G2:147:LYS:HZ3	2.08	0.50
10:G5:132:ARG:HB3	10:G5:134:GLN:NE2	2.26	0.50
3:GF:40:SER:HB3	3:GF:42:LEU:HD23	1.93	0.50
2:GG:11:GLN:NE2	25:GG:501:GTP:O3A	2.44	0.50
2:GG:297:GLU:OE1	2:GG:300:ASN:N	2.45	0.50
3:GH:117:LEU:HA	3:GH:120:VAL:HG22	1.92	0.50
2:GI:5:ILE:HD13	2:GI:64:ARG:HB3	1.93	0.50
11:H4:258:VAL:O	11:H4:259:CYS:HB2	2.12	0.50
3:HD:344:TRP:CE3	2:HE:401:LYS:HD2	2.46	0.50
2:HG:156:ARG:HH21	2:HG:159:VAL:HG11	1.76	0.50
3:HH:328:GLU:OE2	3:HH:329:GLN:NE2	2.38	0.50
3:IF:51:TYR:HB3	3:IF:59:TYR:HB3	1.93	0.50
3:IF:55:THR:HG22	2:JE:285:GLN:HG2	1.94	0.50
14:K2:177:GLN:HE21	14:K2:481:VAL:HG22	1.76	0.50
14:K2:463:LEU:HB3	14:K2:484:TRP:CZ2	2.47	0.50
14:K3:339:LYS:HD2	14:K4:16:VAL:HG11	1.93	0.50
2:KG:89:PRO:HD2	2:LG:280:LYS:HZ2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KG:167:LEU:HD13	2:KG:200:CYS:HB2	1.93	0.50
3:KH:20:PHE:CZ	3:KH:24:ILE:HD11	2.46	0.50
3:KH:117:LEU:HB3	3:KH:121:ARG:NH1	2.27	0.50
3:LD:114:ASP:N	3:LD:114:ASP:OD1	2.44	0.50
3:LD:142:GLY:N	25:LD:501:GTP:O3B	2.45	0.50
2:ME:430:LYS:O	2:ME:433:GLU:HG2	2.10	0.50
3:MF:155:ILE:HA	3:MF:158:GLU:HB2	1.93	0.50
2:MG:115:VAL:HG21	2:MG:156:ARG:HG3	1.93	0.50
2:MI:117:LEU:O	2:MI:121:ARG:HG2	2.11	0.50
17:N3:157:TYR:HB3	17:N3:159:ARG:HH11	1.75	0.50
3:ND:252:LYS:HD2	2:NE:100:ALA:HA	1.92	0.50
3:ND:266:PHE:CD1	3:ND:370:ASN:HB2	2.47	0.50
2:NE:113:GLU:N	2:NE:113:GLU:OE1	2.42	0.50
2:NG:1:MET:N	2:NG:130:THR:OG1	2.42	0.50
3:NH:136:THR:HG22	3:NH:167:PHE:HB3	1.93	0.50
2:NI:192:HIS:CE1	2:NI:193:THR:HG23	2.47	0.50
3:OF:3:GLU:OE2	3:OF:128:ASP:N	2.37	0.50
3:OF:47:ILE:HG12	3:OF:59:TYR:CD2	2.46	0.50
2:OI:229:ARG:HH12	2:OI:233:GLN:HB3	1.76	0.50
19:P2:146:ASP:OD1	19:P2:146:ASP:N	2.44	0.50
2:PE:292:THR:CG2	2:PE:335:ILE:HD11	2.40	0.50
3:PF:99:ASN:OD1	3:PF:142:GLY:HA3	2.10	0.50
2:PG:180:ALA:HB1	2:PG:182:VAL:HG12	1.92	0.50
2:PI:16:ILE:HD11	2:PI:138:PHE:HB3	1.92	0.50
2:QE:5:ILE:O	2:QE:135:PHE:HA	2.12	0.50
2:QE:49:PHE:CD2	2:QE:53:PHE:HB2	2.47	0.50
3:QF:54:ALA:HB3	3:QF:58:LYS:HB2	1.92	0.50
3:QF:246:LEU:HD12	3:QF:352:ALA:HB1	1.94	0.50
2:QG:422:ARG:O	2:QG:425:LEU:HG	2.11	0.50
3:QH:309:ARG:H	3:QH:372:THR:HG1	1.58	0.50
3:RF:228:LEU:O	3:RF:232:THR:HG23	2.11	0.50
2:RG:9:VAL:HG22	2:RG:146:GLY:HA2	1.93	0.50
3:RH:421:GLU:HG2	3:RH:425:TYR:HE1	1.76	0.50
2:RI:326:LYS:HD3	3:RJ:208:TYR:CE2	2.46	0.50
2:RI:358:GLN:NE2	2:RI:359:PRO:O	2.43	0.50
3:SF:86:ARG:HB3	3:SF:88:ASP:HB3	1.93	0.50
2:SI:54:SER:H	2:SI:62:VAL:H	1.59	0.50
3:SJ:378:PHE:HA	3:SJ:381:ILE:HG22	1.92	0.50
3:TF:47:ILE:HD11	3:TF:51:TYR:CD2	2.47	0.50
3:TF:144:GLY:N	25:TF:501:GTP:O2B	2.45	0.50
3:TF:347:ASN:HB3	2:TG:178:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:135:PHE:HD2	2:TI:166:LYS:HE3	1.75	0.50
2:TI:320:ARG:HB3	2:TI:374:ALA:HB3	1.93	0.50
3:UF:206:ALA:O	3:UF:210:ILE:HG12	2.11	0.50
2:UG:165:SER:OG	2:UG:252:LEU:HD13	2.11	0.50
2:UG:252:LEU:HD12	2:UG:253:THR:N	2.27	0.50
2:VE:89:PRO:HB2	2:VE:90:GLU:OE1	2.11	0.50
2:VG:230:LEU:O	2:VG:234:ILE:HG12	2.10	0.50
3:VH:84:ILE:O	3:VH:86:ARG:NH1	2.44	0.50
2:WE:326:LYS:HE2	3:WF:218:THR:O	2.11	0.50
3:WF:130:LEU:HB2	3:WF:162:ARG:NH1	2.26	0.50
2:WG:50:ASN:OD1	2:WG:51:THR:N	2.44	0.50
2:WG:338:LYS:NZ	2:WG:339:ARG:H	2.09	0.50
2:WI:220:GLU:O	2:WI:221:ARG:NE	2.40	0.50
24:YI:74:SER:O	24:YI:78:LYS:HG3	2.11	0.50
24:YJ:32:CYS:HB3	24:YJ:52:TYR:CG	2.46	0.50
1:A2:105:TYR:O	1:A2:108:PRO:HD2	2.11	0.50
2:AE:260:VAL:HG13	3:AF:397:TRP:CH2	2.47	0.50
2:AE:417:GLU:OE1	2:AE:417:GLU:N	2.28	0.50
3:AF:44:LEU:O	3:AF:47:ILE:HG12	2.11	0.50
3:AH:73:MET:HA	3:AH:76:VAL:HG22	1.93	0.50
3:AH:101:TRP:CZ3	3:AH:187:LEU:HD22	2.47	0.50
4:B3:117:LEU:O	4:B3:121:GLU:HG2	2.11	0.50
4:B3:158:ALA:O	4:B3:162:LEU:HG	2.11	0.50
2:BE:2:ARG:NH2	2:BE:250:VAL:O	2.44	0.50
3:BF:16:ILE:HD13	3:BF:226:ASN:HD22	1.76	0.50
3:BF:286:VAL:HG22	3:BF:363:MET:HE3	1.94	0.50
3:BF:390:ARG:HG3	3:BF:391:ARG:HG3	1.94	0.50
3:BH:256:ASN:HB3	3:BH:350:LYS:HD2	1.94	0.50
5:C7:179:ARG:O	5:C7:183:ARG:NH1	2.45	0.50
3:CF:45:GLU:HG3	3:CF:46:ARG:HG2	1.94	0.50
3:CF:234:SER:O	3:CF:238:THR:HG23	2.11	0.50
2:CG:266:HIS:O	2:CG:268:PRO:HD3	2.10	0.50
2:CI:16:ILE:HD11	2:CI:138:PHE:HB3	1.93	0.50
6:D8:228:CYS:O	6:D8:231:TYR:HD2	1.94	0.50
6:D8:304:PHE:CZ	6:D8:426:ASP:HB2	2.43	0.50
3:DD:21:TRP:CZ2	3:DD:63:ALA:HB2	2.46	0.50
3:ED:39:ASP:N	3:ED:39:ASP:OD1	2.44	0.50
2:EE:99:ALA:HB3	2:EE:145:THR:HA	1.93	0.50
2:EE:119:LEU:HA	2:EE:122:ILE:HG12	1.93	0.50
3:EF:10:GLY:HA2	3:EF:143:THR:HB	1.92	0.50
2:EG:254:GLU:O	2:EG:258:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:211:ASP:HB2	2:FE:215:ARG:HH21	1.75	0.50
2:FE:389:ALA:HA	2:FE:392:ASP:OD2	2.11	0.50
2:FG:172:TYR:CG	2:FG:173:PRO:HD2	2.46	0.50
10:G5:199:MET:O	10:G5:202:GLU:HG3	2.11	0.50
10:G5:542:TYR:HB3	10:G5:597:GLN:CD	2.32	0.50
2:GG:88:HIS:HE1	2:GG:90:GLU:HG2	1.76	0.50
2:GG:144:GLY:N	25:GG:501:GTP:O2B	2.41	0.50
2:GI:438:ASP:N	2:GI:438:ASP:OD1	2.44	0.50
3:HF:326:VAL:O	3:HF:330:MET:HG2	2.10	0.50
3:IF:28:HIS:ND1	3:IF:43:GLN:HB2	2.26	0.50
3:IF:322:SER:OG	3:IF:324:LYS:NZ	2.43	0.50
2:II:16:ILE:HG13	2:II:17:GLY:N	2.26	0.50
2:II:47:ASP:HB3	2:II:49:PHE:CD1	2.45	0.50
2:JE:270:ALA:HA	2:JE:377:MET:O	2.12	0.50
2:JE:389:ALA:HA	2:JE:392:ASP:OD2	2.10	0.50
14:K3:476:GLN:HG3	14:K3:479:ARG:HH12	1.77	0.50
3:KD:350:LYS:NZ	2:KE:181:VAL:HG13	2.26	0.50
2:KG:336:LYS:HZ2	3:KH:175:VAL:HG11	1.76	0.50
3:LD:266:PHE:HE1	3:LD:370:ASN:HB2	1.76	0.50
2:LE:301:GLN:N	2:LE:301:GLN:OE1	2.44	0.50
3:LF:5:VAL:HG23	3:LF:130:LEU:HD11	1.93	0.50
3:LF:12:CYS:HA	3:LF:15:GLN:NE2	2.26	0.50
3:LF:91:VAL:HG11	3:LF:116:VAL:HG12	1.94	0.50
2:LG:132:LEU:HD11	18:O2:22:TRP:CE2	2.47	0.50
3:LH:170:VAL:HG13	3:LH:171:PRO:HD2	1.94	0.50
2:LI:2:ARG:HG2	2:LI:242:LEU:HD23	1.91	0.50
3:MF:21:TRP:HZ2	3:MF:63:ALA:HB2	1.76	0.50
3:MF:31:ASP:OD1	3:MF:35:THR:N	2.44	0.50
2:MG:236:SER:O	2:MG:243:ARG:NH2	2.40	0.50
3:ND:176:SER:O	3:ND:178:THR:N	2.44	0.50
2:NE:250:VAL:HG21	2:NE:318:LEU:HD11	1.92	0.50
3:NF:258:VAL:HG13	2:NG:407:TRP:HE1	1.75	0.50
2:NG:208:ALA:H	2:NG:304:LYS:NZ	2.10	0.50
3:NH:12:CYS:SG	3:NH:13:GLY:N	2.85	0.50
3:NH:318:ARG:HB3	3:NH:364:SER:OG	2.11	0.50
2:OG:11:GLN:HB2	2:OG:74:VAL:HG21	1.94	0.50
2:OG:139:HIS:CE1	2:OG:169:PHE:H	2.30	0.50
2:OG:246:GLY:HA2	2:OG:357:TYR:CD2	2.47	0.50
2:OG:402:ARG:HB3	2:OG:405:VAL:HG21	1.93	0.50
3:OH:31:ASP:OD1	3:OH:35:THR:N	2.44	0.50
19:P2:49:ILE:HB	19:P2:58:ASN:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:213:CYS:O	2:PE:218:ASP:N	2.44	0.50
3:PF:12:CYS:HB3	25:PF:501:GTP:O4'	2.11	0.50
3:PF:218:THR:O	3:PF:220:PRO:HD3	2.11	0.50
2:PG:166:LYS:O	2:PG:199:ASP:HB2	2.10	0.50
3:PH:3:GLU:HA	3:PH:49:VAL:HG23	1.92	0.50
3:PH:152:ILE:O	3:PH:156:ARG:HD2	2.12	0.50
2:QG:32:PRO:HB2	24:YI:123:ASN:ND2	2.26	0.50
2:QG:84:ARG:NH1	24:YI:124:HIS:HA	2.26	0.50
3:QH:28:HIS:O	3:QH:43:GLN:NE2	2.44	0.50
2:RE:160:ASP:OD1	2:RE:161:TYR:N	2.44	0.50
2:RE:358:GLN:NE2	2:RE:359:PRO:O	2.45	0.50
3:RF:357:PRO:HB3	3:RF:362:LYS:O	2.12	0.50
3:RJ:6:HIS:HB2	3:RJ:134:GLN:NE2	2.26	0.50
2:SE:172:TYR:N	2:SE:204:VAL:O	2.40	0.50
2:SE:280:LYS:HZ2	2:SE:284:GLU:CD	2.14	0.50
3:SF:151:LEU:O	3:SF:155:ILE:HG12	2.11	0.50
3:SF:205:GLU:HA	3:SF:208:TYR:HD2	1.76	0.50
3:SF:211:CYS:SG	3:SF:220:PRO:HG3	2.51	0.50
3:SH:275:SER:H	3:SH:278:SER:HG	1.57	0.50
3:SJ:84:ILE:O	3:SJ:86:ARG:NH1	2.45	0.50
3:SJ:320:ARG:H	3:SJ:363:MET:CE	2.24	0.50
3:TF:240:LEU:HA	3:TF:248:ALA:HB1	1.91	0.50
2:TG:208:ALA:HB2	2:TG:304:LYS:HE3	1.93	0.50
3:TH:155:ILE:HA	3:TH:158:GLU:HB2	1.93	0.50
3:TJ:36:TYR:CZ	3:TJ:38:GLY:HA2	2.46	0.50
3:UH:90:PHE:HB3	3:UH:92:PHE:HE2	1.77	0.50
2:VE:5:ILE:HD13	2:VE:64:ARG:HB3	1.93	0.50
3:VH:380:ARG:HA	3:VH:383:GLU:OE1	2.12	0.50
2:WE:302:MET:N	2:WE:302:MET:SD	2.81	0.50
3:WF:233:MET:HA	3:WF:236:VAL:HG12	1.92	0.50
2:WG:208:ALA:HB2	2:WG:304:LYS:HZ2	1.76	0.50
3:WH:172:SER:OG	3:WH:205:GLU:OE2	2.19	0.50
24:YI:53:MET:O	24:YI:63:ARG:NH2	2.44	0.50
1:A2:231:GLN:O	1:A2:234:ASN:HB2	2.10	0.50
2:AE:196:GLU:HG2	2:AE:197:HIS:ND1	2.27	0.50
2:AI:186:ASN:OD1	2:AI:187:SER:N	2.44	0.50
2:BE:69:ASP:OD1	2:BE:70:LEU:N	2.45	0.50
2:BE:207:GLU:HB2	2:BE:304:LYS:NZ	2.27	0.50
2:BI:107:HIS:CD2	2:BI:152:LEU:HB2	2.47	0.50
2:BI:125:LEU:O	2:BI:128:LEU:HG	2.12	0.50
3:CH:205:GLU:HA	3:CH:208:TYR:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:117:LEU:O	2:CI:121:ARG:HG2	2.11	0.50
2:CI:127:ASP:OD1	2:CI:128:LEU:N	2.44	0.50
2:CI:301:GLN:OE1	2:CI:302:MET:N	2.45	0.50
6:D8:228:CYS:O	6:D8:230:ARG:N	2.45	0.50
3:DD:14:ASN:ND2	3:DD:67:ASP:OD2	2.44	0.50
2:DE:297:GLU:HG2	2:DE:298:PRO:HD2	1.94	0.50
2:DE:385:ALA:HB2	2:DE:432:TYR:HD2	1.77	0.50
3:DH:11:GLN:HE21	25:DH:501:GTP:H3'	1.77	0.50
3:DH:117:LEU:HA	3:DH:120:VAL:HG22	1.92	0.50
3:ED:415:MET:O	3:ED:419:VAL:HG23	2.11	0.50
2:EE:5:ILE:HD11	2:EE:129:CYS:SG	2.51	0.50
2:EE:224:TYR:CE1	25:EE:501:GTP:C6	2.99	0.50
2:EG:15:GLN:HG2	25:EG:501:GTP:N1	2.27	0.50
3:EH:318:ARG:HD3	3:EH:358:PRO:HG3	1.94	0.50
8:F2:218:GLU:OE2	8:F2:339:THR:OG1	2.29	0.50
8:F3:219:VAL:O	8:F3:223:LYS:HG2	2.11	0.50
10:G5:454:ILE:HA	10:G5:464:SER:O	2.11	0.50
10:G5:492:GLU:H	10:G5:495:LYS:HE3	1.76	0.50
3:GD:176:SER:O	3:GD:178:THR:N	2.43	0.50
3:GD:251:ARG:O	3:GD:255:VAL:HG22	2.12	0.50
3:GF:1:MET:HG3	3:GF:2:ARG:N	2.17	0.50
2:GI:2:ARG:NH1	2:GI:241:SER:O	2.45	0.50
3:HD:412:GLU:HA	3:HD:415:MET:HG3	1.92	0.50
2:HE:260:VAL:HG23	2:HE:265:ILE:O	2.11	0.50
2:HG:55:GLU:HG3	2:HG:60:LYS:C	2.32	0.50
3:HH:40:SER:O	3:HH:43:GLN:HG2	2.12	0.50
2:HI:214:ARG:NH1	2:HI:215:ARG:HG3	2.27	0.50
3:IF:321:MET:N	3:IF:321:MET:SD	2.84	0.50
3:IF:382:SER:HA	3:IF:385:PHE:CD2	2.47	0.50
3:JD:233:MET:O	3:JD:236:VAL:HG12	2.10	0.50
2:JE:8:HIS:HB2	2:JE:67:PHE:HD1	1.77	0.50
2:JE:30:ILE:HG13	2:JE:53:PHE:CE2	2.46	0.50
2:JE:401:LYS:C	2:JE:402:ARG:HD3	2.31	0.50
3:JF:6:HIS:HE1	3:JF:8:GLN:HB2	1.73	0.50
2:JG:252:LEU:HA	2:JG:255:PHE:CD2	2.46	0.50
14:K2:184:TYR:HE2	14:K2:487:PRO:HB3	1.77	0.50
3:KD:375:GLN:HA	3:KD:378:PHE:CE1	2.47	0.50
2:KE:219:ILE:HG22	2:KE:222:PRO:HD3	1.93	0.50
3:KH:285:THR:O	3:KH:288:GLU:HG3	2.12	0.50
2:KI:102:ASN:HB3	2:KI:105:ARG:HB2	1.92	0.50
15:L3:52:ALA:HB2	3:MH:306:ARG:NE	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L3:244:ILE:HD11	15:L3:250:ILE:HG21	1.93	0.50
3:LD:170:VAL:HG21	3:LD:201:CYS:HB3	1.93	0.50
2:ME:70:LEU:HB3	2:ME:97:GLU:O	2.11	0.50
3:MF:246:LEU:HD12	3:MF:352:ALA:HB1	1.92	0.50
2:NE:21:TRP:HD1	2:NE:67:PHE:HZ	1.60	0.50
3:NF:150:LEU:O	3:NF:153:SER:OG	2.23	0.50
2:NG:325:PRO:HA	2:NG:328:VAL:HB	1.93	0.50
2:NG:386:GLU:O	2:NG:390:ARG:HG2	2.11	0.50
3:NH:21:TRP:CZ2	3:NH:63:ALA:HB2	2.46	0.50
3:NH:130:LEU:HB2	3:NH:162:ARG:NH1	2.26	0.50
18:O1:8:ASN:O	18:O1:10:TYR:N	2.43	0.50
3:OF:3:GLU:O	3:OF:130:LEU:HD12	2.11	0.50
3:OH:52:ASN:OD1	3:OH:62:ARG:NH1	2.44	0.50
3:OH:204:ASN:HA	3:OH:207:LEU:HD12	1.92	0.50
19:P1:113:LYS:HG2	19:P1:131:GLY:HA3	1.94	0.50
19:P2:125:TYR:CD1	19:P2:148:ILE:HD11	2.46	0.50
19:P2:485:CYS:HB2	19:P2:499:ILE:HB	1.92	0.50
3:PF:150:LEU:O	3:PF:154:LYS:HG3	2.12	0.50
3:PF:292:GLN:O	3:PF:298:ASN:ND2	2.36	0.50
3:PH:145:SER:HB2	3:PH:188:SER:HB3	1.93	0.50
2:PI:52:PHE:HZ	2:PI:239:THR:HB	1.77	0.50
2:PI:234:ILE:O	2:PI:237:SER:OG	2.24	0.50
20:Q1:1357:THR:OG1	20:Q1:1394:PHE:O	2.23	0.50
2:QE:273:ALA:HB2	2:QE:295:CYS:HB3	1.93	0.50
2:QG:262:TYR:HE1	3:QH:393:ALA:HA	1.76	0.50
3:RH:61:PRO:HD3	3:RH:84:ILE:HG22	1.93	0.50
3:RH:194:GLU:OE1	3:RH:194:GLU:N	2.31	0.50
2:RI:327:ASP:OD1	2:RI:328:VAL:N	2.44	0.50
3:RJ:130:LEU:HD13	3:RJ:133:PHE:CE1	2.47	0.50
2:SE:250:VAL:HB	2:SE:255:PHE:HE1	1.76	0.50
3:SF:164:MET:N	3:SF:197:ASP:OD2	2.40	0.50
3:SF:316:VAL:HA	3:SF:352:ALA:O	2.10	0.50
3:SH:299:MET:SD	3:SH:301:ALA:N	2.84	0.50
3:TF:119:VAL:HA	3:TF:122:LYS:HE2	1.93	0.50
3:TF:246:LEU:HB3	3:TF:353:VAL:O	2.11	0.50
3:TH:42:LEU:HB2	3:TH:46:ARG:NH2	2.27	0.50
2:TI:118:VAL:O	2:TI:122:ILE:HG13	2.11	0.50
3:TJ:187:LEU:O	3:TJ:191:GLN:NE2	2.45	0.50
2:UE:2:ARG:NH2	2:UE:250:VAL:O	2.44	0.50
3:UF:314:ALA:HA	3:UF:350:LYS:O	2.10	0.50
3:UH:216:LYS:HB2	3:UH:276:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UH:233:MET:O	3:UH:236:VAL:HG12	2.11	0.50
3:VH:299:MET:HE3	3:VH:301:ALA:HB3	1.92	0.50
2:WE:251:ASP:HB3	2:WE:254:GLU:OE1	2.12	0.50
2:WG:263:PRO:O	2:WG:264:ARG:HB2	2.11	0.50
2:WI:1:MET:O	2:WI:133:GLN:NE2	2.45	0.50
22:XE:27:LYS:C	22:XE:28:LYS:HD3	2.31	0.50
24:YI:15:TYR:HA	24:YI:18:PHE:HB3	1.94	0.50
24:YJ:70:MET:HA	24:YJ:73:CYS:SG	2.51	0.50
3:AF:15:GLN:HB3	3:AF:226:ASN:ND2	2.26	0.50
2:AG:47:ASP:O	2:AG:49:PHE:N	2.44	0.50
2:AG:263:PRO:O	2:AG:264:ARG:HB2	2.11	0.50
3:AH:285:THR:O	3:AH:288:GLU:HG3	2.11	0.50
2:AI:390:ARG:HA	2:AI:393:HIS:NE2	2.27	0.50
4:B2:280:LYS:O	4:B2:283:GLU:HG3	2.11	0.50
4:B2:307:LYS:CE	4:B2:349:ILE:HD13	2.41	0.50
4:B8:125:ASP:OD1	4:B8:126:ILE:N	2.45	0.50
2:BE:135:PHE:CZ	2:BE:164:LYS:HD2	2.46	0.50
2:BE:234:ILE:O	2:BE:238:ILE:HG23	2.12	0.50
3:BF:282:ARG:HH22	3:BF:292:GLN:CD	2.15	0.50
3:BF:395:LEU:HA	3:BF:398:TYR:CD2	2.46	0.50
2:BG:306:ASP:HB3	2:BG:309:HIS:ND1	2.26	0.50
5:C3:202:ARG:CZ	5:C3:469:ASP:HA	2.41	0.50
5:C7:110:SER:O	5:C7:114:ARG:HG3	2.11	0.50
5:C8:258:LEU:HD23	5:C8:261:LYS:HE2	1.92	0.50
3:CH:350:LYS:HE3	2:CI:181:VAL:HG13	1.94	0.50
6:D4:318:LEU:HB3	6:D4:416:ILE:HD11	1.94	0.50
6:D7:335:GLN:HB3	6:D8:78:ARG:HH12	1.76	0.50
2:DG:89:PRO:HD2	2:EG:280:LYS:NZ	2.26	0.50
3:DH:15:GLN:NE2	25:DH:501:GTP:C2	2.67	0.50
3:ED:211:CYS:O	3:ED:216:LYS:N	2.44	0.50
3:EF:118:ASP:O	3:EF:122:LYS:HG2	2.12	0.50
3:EF:233:MET:O	3:EF:236:VAL:HG12	2.12	0.50
2:EG:346:TRP:HE1	3:EH:391:ARG:HH11	1.59	0.50
2:EG:348:PRO:HG2	3:EH:384:GLN:OE1	2.12	0.50
8:F2:439:ASP:HA	8:F2:442:GLN:HE21	1.77	0.50
8:F2:443:LEU:O	8:F2:446:MET:HG3	2.12	0.50
2:GG:196:GLU:HG2	2:GG:197:HIS:ND1	2.26	0.50
3:GH:176:SER:O	3:GH:178:THR:N	2.44	0.50
2:GI:329:ASN:HA	2:GI:332:ILE:HG12	1.92	0.50
11:H4:11:THR:HB	11:H4:12:PRO:HD2	1.93	0.50
2:HE:90:GLU:CD	2:IE:280:LYS:HZ1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:160:ASP:OD1	2:IE:161:TYR:N	2.44	0.50
3:IF:21:TRP:CZ2	3:IF:63:ALA:HB2	2.47	0.50
3:JD:2:ARG:NH2	2:JE:97:GLU:HA	2.27	0.50
3:JD:325:GLU:O	3:JD:329:GLN:HG2	2.12	0.50
3:JD:378:PHE:HA	3:JD:381:ILE:HG22	1.93	0.50
3:JF:40:SER:O	3:JF:43:GLN:HG2	2.12	0.50
3:JF:318:ARG:NH1	3:JF:358:PRO:HG3	2.26	0.50
2:JG:101:ASN:HB3	2:JG:182:VAL:HG21	1.94	0.50
14:K3:393:LEU:O	14:K3:395:ARG:N	2.45	0.50
2:KE:362:VAL:HG11	2:KE:370:LYS:HE2	1.93	0.50
3:KH:139:LEU:N	3:KH:168:SER:OG	2.45	0.50
3:KH:318:ARG:HB3	3:KH:364:SER:OG	2.12	0.50
2:KI:401:LYS:C	2:KI:402:ARG:HG2	2.32	0.50
15:L3:193:ARG:NH2	15:L3:249:ILE:HG23	2.26	0.50
3:LD:245:GLN:OE1	25:LE:501:GTP:C8	2.63	0.50
3:LF:409:THR:O	3:LF:412:GLU:HG3	2.12	0.50
3:LH:20:PHE:CZ	3:LH:24:ILE:HD11	2.45	0.50
3:MF:249:ASP:OD1	3:MF:250:LEU:N	2.44	0.50
2:MG:219:ILE:HG22	2:MG:221:ARG:H	1.77	0.50
3:MH:36:TYR:CE2	3:MH:38:GLY:HA2	2.47	0.50
3:MH:345:ILE:HD13	2:MI:398:MET:SD	2.51	0.50
2:MI:251:ASP:OD1	2:MI:253:THR:N	2.31	0.50
2:NG:286:LEU:H	2:NG:286:LEU:HD23	1.77	0.50
3:NH:374:ILE:HG22	3:NH:378:PHE:CD2	2.46	0.50
18:O2:42:ILE:O	18:O2:50:LEU:N	2.38	0.50
18:O2:42:ILE:HB	18:O2:53:VAL:HG21	1.94	0.50
2:OE:208:ALA:N	2:OE:304:LYS:HZ1	2.08	0.50
3:OF:7:LEU:HD13	3:OF:64:VAL:HB	1.92	0.50
2:OG:5:ILE:HB	2:OG:135:PHE:HD1	1.74	0.50
3:OH:1:MET:HG2	3:OH:3:GLU:OE1	2.12	0.50
2:OI:21:TRP:HE1	2:OI:65:ALA:HB3	1.76	0.50
19:P1:97:ASP:HB2	19:P1:104:ILE:HD11	1.94	0.50
19:P1:227:GLY:HA2	19:P1:253:VAL:HG23	1.93	0.50
19:P2:515:PHE:HB3	19:P2:532:PHE:HE1	1.75	0.50
3:PF:285:THR:O	3:PF:288:GLU:HG3	2.12	0.50
3:PH:255:VAL:HA	2:PI:407:TRP:CZ3	2.46	0.50
3:PH:377:LEU:O	3:PH:380:ARG:HB2	2.11	0.50
2:PI:167:LEU:HB3	2:PI:169:PHE:CZ	2.46	0.50
2:PI:189:LEU:HA	2:PI:192:HIS:CE1	2.47	0.50
2:QE:139:HIS:CE1	2:QE:168:GLU:HB2	2.46	0.50
3:QF:379:LYS:O	3:QF:382:SER:OG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:286:LEU:H	2:QG:286:LEU:HD23	1.77	0.50
3:RF:386:THR:O	3:RF:390:ARG:HG2	2.12	0.50
3:RJ:86:ARG:NE	3:RJ:86:ARG:HA	2.26	0.50
2:SE:245:ASP:O	2:SE:356:ASN:ND2	2.45	0.50
2:SG:3:GLU:N	2:SG:3:GLU:OE1	2.44	0.50
3:SH:155:ILE:HA	3:SH:158:GLU:HB2	1.93	0.50
3:SH:309:ARG:N	3:SH:372:THR:OG1	2.38	0.50
2:SI:12:ALA:HB1	25:SI:501:GTP:N2	2.26	0.50
2:SI:263:PRO:HD3	3:SJ:396:HIS:CD2	2.47	0.50
3:SJ:20:PHE:O	3:SJ:24:ILE:HG13	2.10	0.50
3:SJ:322:SER:N	3:SJ:325:GLU:OE2	2.39	0.50
3:TJ:215:LEU:HD23	3:TJ:217:LEU:H	1.77	0.50
2:UE:292:THR:HA	2:UE:295:CYS:SG	2.52	0.50
3:UF:6:HIS:ND1	3:UF:21:TRP:HZ2	2.09	0.50
2:UG:54:SER:O	2:UG:62:VAL:N	2.44	0.50
2:UG:362:VAL:HG12	2:UG:368:LEU:HD11	1.93	0.50
2:UG:389:ALA:O	2:UG:393:HIS:ND1	2.44	0.50
3:VF:345:ILE:HD12	3:VF:346:PRO:HD2	1.93	0.50
2:WE:139:HIS:CE1	2:WE:168:GLU:HB3	2.47	0.50
2:WG:129:CYS:HB3	2:WG:132:LEU:HB3	1.92	0.50
2:WG:213:CYS:O	2:WG:218:ASP:N	2.44	0.50
22:XC:3:LYS:HE3	23:XJ:62:ARG:HG2	1.93	0.50
23:XJ:66:PRO:HG2	23:XJ:82:VAL:HB	1.94	0.50
23:XL:70:GLU:HB2	23:XL:77:LYS:HD2	1.92	0.50
24:YJ:49:VAL:O	24:YJ:52:TYR:HB2	2.10	0.50
1:A2:269:LYS:HA	1:A2:272:LYS:HE3	1.94	0.50
1:A3:174:ASP:O	1:A3:178:LYS:HG2	2.12	0.50
3:AF:271:ALA:HB2	3:AF:365:ALA:O	2.12	0.50
2:AG:263:PRO:HB2	2:AG:264:ARG:HH11	1.76	0.50
2:AI:155:GLU:O	2:AI:159:VAL:HG13	2.10	0.50
3:BF:12:CYS:SG	3:BF:13:GLY:N	2.85	0.50
2:BG:85:GLN:OE1	2:BG:85:GLN:N	2.32	0.50
3:BH:8:GLN:NE2	3:BH:14:ASN:O	2.45	0.50
3:BH:52:ASN:OD1	3:BH:62:ARG:NH1	2.45	0.50
3:BH:189:VAL:HA	3:BH:192:LEU:HD12	1.94	0.50
3:BH:324:LYS:HD3	2:BI:210:TYR:HE1	1.77	0.50
3:BH:378:PHE:O	3:BH:381:ILE:HG22	2.12	0.50
5:C2:249:SER:OG	5:C2:310:ARG:NH2	2.45	0.50
3:CF:375:GLN:HG3	3:CF:378:PHE:CZ	2.47	0.50
2:CI:40:LYS:NZ	9:G2:246:TYR:OH	2.40	0.50
2:CI:338:LYS:HZ1	2:CI:340:THR:HG23	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:121:ARG:O	2:DE:124:LYS:HG3	2.11	0.50
3:DF:172:SER:OG	3:DF:205:GLU:OE2	2.29	0.50
2:DG:3:GLU:H	2:DG:133:GLN:HE22	1.58	0.50
3:ED:36:TYR:HE2	3:ED:44:LEU:HD13	1.76	0.50
3:EF:258:VAL:HB	2:EG:407:TRP:CH2	2.47	0.50
3:EF:350:LYS:NZ	2:EG:181:VAL:HG13	2.26	0.50
8:F2:403:PRO:HG2	8:F2:406:GLU:OE2	2.12	0.50
2:FE:119:LEU:HD23	2:FE:122:ILE:HD11	1.92	0.50
2:FE:352:LYS:HD2	3:FF:177:ASP:O	2.11	0.50
3:FF:251:ARG:O	3:FF:255:VAL:HG22	2.12	0.50
3:FH:211:CYS:O	3:FH:216:LYS:N	2.39	0.50
3:FH:318:ARG:HG2	3:FH:357:PRO:HA	1.92	0.50
9:G2:410:VAL:O	9:G2:414:MET:HB3	2.11	0.50
10:G5:721:TRP:NE1	10:G5:725:PRO:HD2	2.27	0.50
3:GD:192:LEU:O	3:GD:196:THR:HG22	2.11	0.50
3:GF:378:PHE:CE2	3:GF:422:TYR:HD2	2.29	0.50
2:GI:345:ASP:N	2:GI:345:ASP:OD1	2.45	0.50
3:HD:374:ILE:HG22	3:HD:378:PHE:HD2	1.76	0.50
3:HD:405:GLU:O	3:HD:409:THR:HG23	2.11	0.50
2:HE:117:LEU:O	2:HE:121:ARG:HG2	2.11	0.50
2:HG:213:CYS:O	2:HG:217:LEU:N	2.44	0.50
3:IH:86:ARG:HD3	2:JG:284:GLU:OE2	2.12	0.50
3:IH:323:MET:O	3:IH:326:VAL:HG12	2.11	0.50
13:J3:93:GLY:HA2	13:J3:96:MET:CE	2.42	0.50
3:JD:215:LEU:HD23	3:JD:217:LEU:HD21	1.93	0.50
2:JE:207:GLU:HA	2:JE:210:TYR:CD2	2.46	0.50
14:K2:460:VAL:O	14:K2:463:LEU:HG	2.11	0.50
3:KD:256:ASN:HD22	2:KE:181:VAL:HG22	1.76	0.50
3:KF:16:ILE:HD13	3:KF:226:ASN:HD22	1.77	0.50
2:KG:320:ARG:CZ	2:KG:360:PRO:HA	2.41	0.50
3:KH:197:ASP:OD1	3:KH:198:GLU:N	2.45	0.50
3:KH:379:LYS:HD3	3:KH:419:VAL:HG11	1.94	0.50
2:KI:53:PHE:CD1	2:KI:61:HIS:HB3	2.47	0.50
15:L2:207:VAL:HG13	15:L2:230:LEU:HD22	1.93	0.50
3:LF:172:SER:HB3	3:LF:175:VAL:O	2.11	0.50
2:MG:276:ILE:HD11	2:MG:280:LYS:HG2	1.94	0.50
2:MI:203:MET:N	2:MI:203:MET:SD	2.85	0.50
2:MI:220:GLU:O	2:MI:221:ARG:NE	2.35	0.50
2:NE:308:ARG:NH2	2:NE:340:THR:O	2.44	0.50
2:NG:101:ASN:HA	2:NG:144:GLY:HA2	1.94	0.50
3:NH:180:VAL:HG13	3:NH:184:ASN:OD1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:O1:83:ALA:HA	18:O1:118:PHE:CZ	2.46	0.50
2:OG:12:ALA:HB1	25:OG:501:GTP:C2	2.47	0.50
2:OG:352:LYS:HA	3:OH:177:ASP:OD1	2.11	0.50
3:OH:152:ILE:HD12	3:OH:195:ASN:HB2	1.92	0.50
2:OI:201:ALA:N	2:OI:266:HIS:HD2	2.10	0.50
2:OI:291:ILE:HD11	2:OI:319:TYR:HE2	1.75	0.50
19:P1:122:ASN:ND2	19:P1:171:ASP:OD2	2.36	0.50
19:P1:439:GLY:O	19:P1:460:HIS:HB2	2.11	0.50
2:PE:312:TYR:CD1	2:PE:381:THR:HB	2.45	0.50
3:PF:144:GLY:HA2	3:PF:147:MET:HE3	1.93	0.50
3:PH:256:ASN:HD21	3:PH:350:LYS:HD2	1.77	0.50
3:PH:328:GLU:OE2	3:PH:329:GLN:NE2	2.44	0.50
2:QG:66:VAL:HG22	2:QG:91:GLN:HB2	1.93	0.50
2:QG:117:LEU:O	2:QG:121:ARG:HG2	2.11	0.50
3:QH:8:GLN:O	3:QH:66:VAL:HG12	2.12	0.50
2:RE:260:VAL:O	3:RF:397:TRP:HH2	1.93	0.50
3:RF:315:ALA:O	3:RF:351:THR:HA	2.11	0.50
2:RG:335:ILE:HG23	2:RG:336:LYS:HD2	1.94	0.50
2:SE:186:ASN:HA	2:SE:189:LEU:HD12	1.92	0.50
3:SF:68:LEU:HD12	3:SF:97:ALA:HB2	1.93	0.50
2:SG:286:LEU:HG	2:SG:373:ARG:HD2	1.93	0.50
2:SI:83:TYR:HB3	2:SI:86:LEU:HD12	1.93	0.50
2:SI:243:ARG:HB3	2:SI:244:PHE:HD1	1.77	0.50
3:TF:234:SER:O	3:TF:238:THR:HG23	2.12	0.50
2:TG:212:ILE:HD12	2:TG:215:ARG:HB2	1.94	0.50
3:TH:322:SER:N	3:TH:325:GLU:OE2	2.42	0.50
2:TI:108:TYR:O	2:TI:112:LYS:NZ	2.37	0.50
2:TI:247:ALA:HB3	2:TI:355:ILE:HB	1.94	0.50
3:TJ:41:ASP:OD1	3:TJ:42:LEU:N	2.44	0.50
3:TJ:173:PRO:HA	3:TJ:380:ARG:CZ	2.41	0.50
3:UD:299:MET:HE3	3:UD:301:ALA:H	1.77	0.50
2:UE:5:ILE:HB	2:UE:135:PHE:CD1	2.47	0.50
3:UF:272:PRO:HA	3:UF:292:GLN:OE1	2.10	0.50
2:UG:345:ASP:N	2:UG:345:ASP:OD1	2.44	0.50
2:VE:262:TYR:CE1	3:VF:393:ALA:HA	2.46	0.50
3:VF:190:HIS:HD2	3:VF:191:GLN:HE21	1.59	0.50
2:VG:262:TYR:OH	3:VH:391:ARG:HG3	2.12	0.50
3:VH:8:GLN:HB2	3:VH:65:LEU:HA	1.93	0.50
2:WE:315:CYS:HB3	2:WE:377:MET:HE3	1.93	0.50
22:XE:78:MET:HB2	22:XE:132:ILE:HB	1.93	0.50
22:XE:173:SER:OG	22:XE:176:GLU:OE1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:65:ILE:HG13	24:YN:66:LEU:HD22	1.94	0.50
2:AE:54:SER:OG	2:AE:64:ARG:NE	2.45	0.50
2:AG:250:VAL:HG11	2:AG:354:GLY:HA3	1.93	0.50
3:AH:28:HIS:HB2	3:AH:30:ILE:HD12	1.94	0.50
2:AI:205:ASP:H	2:AI:302:MET:HE1	1.77	0.50
3:BF:211:CYS:HA	3:BF:215:LEU:HB2	1.94	0.50
3:BF:255:VAL:HA	2:BG:407:TRP:CE2	2.46	0.50
3:BF:324:LYS:HD3	2:BG:210:TYR:HE1	1.76	0.50
2:BG:310:GLY:HA3	2:BG:383:ALA:HB2	1.94	0.50
5:C3:202:ARG:HH11	5:C3:468:ILE:HG22	1.77	0.50
5:C8:389:LYS:HZ1	5:C8:434:LEU:HD13	1.76	0.50
3:DD:256:ASN:HB3	3:DD:350:LYS:HD2	1.93	0.50
2:DE:320:ARG:HH21	2:DE:358:GLN:HG3	1.77	0.50
3:DF:316:VAL:HG22	3:DF:352:ALA:HB3	1.93	0.50
3:DH:85:PHE:O	3:DH:86:ARG:NH2	2.45	0.50
3:ED:8:GLN:N	3:ED:8:GLN:OE1	2.45	0.50
2:EE:338:LYS:NZ	2:EE:339:ARG:H	2.10	0.50
2:EG:107:HIS:HD2	2:EG:148:GLY:O	1.95	0.50
2:EG:215:ARG:NH2	2:EG:299:ALA:O	2.45	0.50
2:EG:390:ARG:HA	2:EG:393:HIS:NE2	2.27	0.50
3:EH:405:GLU:HG2	3:EH:408:PHE:HD2	1.77	0.50
8:F2:153:LYS:HZ1	8:F2:254:ILE:HG13	1.76	0.50
8:F2:449:SER:O	8:F2:452:GLU:HG3	2.12	0.50
3:FD:99:ASN:HB3	25:FD:501:GTP:O3B	2.12	0.50
3:FD:331:LEU:HD11	2:FE:176:GLN:OE1	2.12	0.50
3:FF:2:ARG:HH12	2:FG:96:LYS:HB3	1.77	0.50
2:FG:89:PRO:HD3	2:GG:283:HIS:HE1	1.77	0.50
3:FH:375:GLN:HE21	3:FH:422:TYR:HB3	1.76	0.50
3:HD:323:MET:HA	3:HD:326:VAL:HG22	1.93	0.50
2:HE:125:LEU:O	2:HE:128:LEU:HG	2.12	0.50
2:HE:301:GLN:OE1	2:HE:301:GLN:N	2.45	0.50
2:HG:89:PRO:HD2	2:IG:283:HIS:CE1	2.46	0.50
2:HG:104:ALA:HB1	2:HG:413:MET:HE3	1.93	0.50
2:IE:70:LEU:HB2	2:IE:145:THR:HG21	1.92	0.50
3:IF:12:CYS:SG	25:IF:501:GTP:H5'	2.52	0.50
3:IF:416:ASN:HA	3:IF:419:VAL:HG23	1.94	0.50
3:JF:226:ASN:HA	3:JF:229:VAL:HG22	1.93	0.50
3:JF:380:ARG:O	3:JF:383:GLU:HG2	2.12	0.50
2:JG:88:HIS:HD2	2:JG:91:GLN:H	1.59	0.50
3:JH:3:GLU:OE2	3:JH:128:ASP:N	2.45	0.50
3:JH:278:SER:HA	3:JH:281:TYR:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:405:GLU:O	3:JH:409:THR:HG23	2.11	0.50
14:K3:237:TYR:HA	14:K3:240:GLU:HB2	1.94	0.50
14:K3:363:ARG:O	14:K3:366:LYS:HG2	2.11	0.50
3:KD:222:TYR:CD1	3:KD:225:LEU:HD22	2.47	0.50
3:KD:372:THR:HG21	3:KD:426:GLN:HB2	1.93	0.50
3:KD:378:PHE:HA	3:KD:381:ILE:HG22	1.93	0.50
3:KF:43:GLN:HA	3:KF:241:ARG:HH12	1.77	0.50
3:KF:139:LEU:HD11	3:KF:170:VAL:HA	1.94	0.50
15:L2:151:TYR:HB3	2:MG:429:GLU:OE2	2.11	0.50
15:L2:155:PRO:HD2	15:L2:158:ILE:HG21	1.93	0.50
15:L3:208:HIS:HA	15:L3:211:PHE:HB3	1.94	0.50
2:LE:1:MET:N	2:LE:130:THR:OG1	2.37	0.50
2:LE:1:MET:O	2:LE:131:GLY:HA3	2.12	0.50
3:LH:166:THR:O	3:LH:199:THR:HA	2.11	0.50
2:LI:213:CYS:O	2:LI:218:ASP:N	2.44	0.50
2:LI:322:ASP:HB3	2:LI:373:ARG:HH12	1.76	0.50
2:ME:174:ALA:HB1	2:ME:207:GLU:OE2	2.12	0.50
3:MH:14:ASN:OD1	3:MH:65:LEU:HD11	2.11	0.50
3:MH:147:MET:O	3:MH:151:LEU:HG	2.11	0.50
3:NF:308:GLY:HA3	3:NF:372:THR:OG1	2.12	0.50
2:NG:228:ASN:HA	2:NG:231:ILE:HG12	1.93	0.50
3:NH:222:TYR:HA	3:NH:225:LEU:HD13	1.93	0.50
3:NH:234:SER:O	3:NH:238:THR:HG23	2.12	0.50
2:NI:272:TYR:HD1	2:NI:275:VAL:HG13	1.77	0.50
2:NI:385:ALA:HA	2:NI:388:TRP:HE3	1.77	0.50
18:O1:92:LEU:O	18:O1:96:ILE:HD12	2.12	0.50
2:OE:280:LYS:NZ	2:OE:284:GLU:OE2	2.45	0.50
2:OG:22:GLU:O	2:OG:26:LEU:HD23	2.12	0.50
3:OH:412:GLU:OE1	3:OH:416:ASN:ND2	2.44	0.50
19:P1:342:PHE:CG	19:P1:384:ARG:HG2	2.47	0.50
19:P2:169:CYS:N	19:P2:217:ASP:OD2	2.43	0.50
19:P2:396:GLY:O	19:P2:415:ALA:N	2.45	0.50
2:PE:135:PHE:O	2:PE:167:LEU:HB2	2.11	0.50
3:PF:111:GLU:N	3:PF:111:GLU:OE1	2.45	0.50
3:PF:375:GLN:OE1	3:PF:375:GLN:N	2.40	0.50
2:PG:280:LYS:HZ2	2:PG:284:GLU:CD	2.15	0.50
3:PH:3:GLU:OE2	3:PH:127:CYS:HB2	2.11	0.50
2:PI:80:THR:HA	2:PI:84:ARG:NH1	2.27	0.50
2:PI:214:ARG:NH1	2:PI:215:ARG:HG3	2.27	0.50
2:QG:212:ILE:HD13	2:QG:215:ARG:HH11	1.76	0.50
3:QH:12:CYS:HB3	25:QH:501:GTP:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:131:GLN:HA	3:QH:251:ARG:HH12	1.77	0.50
21:R2:133:VAL:N	21:R2:137:GLU:OE2	2.45	0.50
21:R2:262:LYS:HA	21:R2:265:LYS:HG2	1.93	0.50
3:RF:130:LEU:HG	3:RF:132:GLY:N	2.27	0.50
2:RG:5:ILE:HB	2:RG:135:PHE:CD1	2.47	0.50
2:RG:392:ASP:HB2	2:RG:422:ARG:NH1	2.27	0.50
3:RH:378:PHE:CE1	3:RH:419:VAL:HA	2.47	0.50
3:RJ:182:PRO:HB2	3:RJ:388:MET:HE1	1.94	0.50
2:SE:21:TRP:NE1	2:SE:63:PRO:HB3	2.26	0.50
2:SG:263:PRO:HG2	2:SG:264:ARG:NH1	2.25	0.50
2:SG:273:ALA:HB1	2:SG:291:ILE:HB	1.94	0.50
3:SH:12:CYS:SG	25:SH:501:GTP:H5'	2.51	0.50
3:SH:138:SER:HB2	3:SH:169:VAL:CG1	2.42	0.50
2:TG:121:ARG:O	2:TG:125:LEU:HD23	2.12	0.50
2:TG:346:TRP:NE1	2:TG:438:ASP:OD1	2.45	0.50
2:TG:399:TYR:OH	2:TG:419:SER:OG	2.27	0.50
3:TH:117:LEU:HD11	3:TH:154:LYS:HD2	1.94	0.50
3:UF:252:LYS:HD3	2:UG:98:ASP:OD2	2.12	0.50
3:UF:266:PHE:HE1	3:UF:370:ASN:HB2	1.77	0.50
2:UG:234:ILE:HD11	2:UG:272:TYR:HB2	1.92	0.50
3:VD:211:CYS:SG	3:VD:220:PRO:HG3	2.51	0.50
2:VE:154:MET:SD	2:VE:194:THR:HG22	2.51	0.50
3:VF:270:PHE:CG	3:VF:271:ALA:N	2.79	0.50
3:WF:46:ARG:HH22	2:WG:73:THR:HG23	1.77	0.50
2:WG:5:ILE:HB	2:WG:135:PHE:CD1	2.47	0.50
2:WG:392:ASP:HB3	2:WG:425:LEU:HD23	1.94	0.50
3:WH:318:ARG:HD3	3:WH:358:PRO:HG3	1.92	0.50
2:WI:202:PHE:CD1	2:WI:268:PRO:HD2	2.47	0.50
23:XJ:209:ILE:O	23:XJ:212:THR:OG1	2.25	0.50
23:XL:171:LEU:HA	23:XL:174:TYR:CE2	2.47	0.50
24:YJ:110:LEU:HB3	24:YJ:140:LEU:HD22	1.94	0.50
24:YK:11:ILE:HD11	24:YK:72:ILE:HG23	1.93	0.50
3:AF:349:VAL:O	3:AF:350:LYS:NZ	2.34	0.50
3:AH:217:LEU:HD12	3:AH:219:THR:H	1.75	0.50
3:AH:389:PHE:HZ	3:AH:405:GLU:HB2	1.77	0.50
4:B8:299:ARG:HA	4:B8:302:GLU:OE2	2.11	0.50
4:B8:392:ASP:OD2	5:C7:341:ASN:ND2	2.44	0.50
3:BF:219:THR:O	9:G1:140:ASN:ND2	2.37	0.50
3:BF:289:LEU:HD22	3:BF:363:MET:HE2	1.94	0.50
2:CI:356:ASN:OD1	2:CI:357:TYR:N	2.45	0.50
3:CJ:305:PRO:HB2	3:CJ:310:TYR:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:376:ARG:O	6:D7:379:SER:OG	2.17	0.50
3:DD:228:LEU:O	3:DD:232:THR:HG23	2.12	0.50
3:DF:64:VAL:HG21	3:DF:120:VAL:HG12	1.94	0.50
3:DF:226:ASN:HA	3:DF:229:VAL:HG12	1.93	0.50
3:ED:374:ILE:HG22	3:ED:378:PHE:CD2	2.46	0.50
3:EF:61:PRO:HD3	3:EF:84:ILE:HG22	1.92	0.50
2:EG:25:CYS:HG	2:EG:83:TYR:HH	1.58	0.50
8:F6:163:LEU:O	8:F6:166:GLU:HG2	2.11	0.50
3:FD:156:ARG:HH11	3:FD:195:ASN:HA	1.77	0.50
9:G1:188:ARG:HG3	9:G1:189:PHE:N	2.26	0.50
9:G1:420:LEU:O	9:G1:441:SER:HA	2.11	0.50
3:GD:152:ILE:HD12	3:GD:195:ASN:HB2	1.93	0.50
2:GE:10:GLY:O	2:GE:14:VAL:HG13	2.11	0.50
2:GE:253:THR:O	2:GE:257:THR:HG23	2.12	0.50
2:GE:426:ALA:O	2:GE:430:LYS:HG2	2.12	0.50
2:GI:187:SER:O	2:GI:191:THR:HG23	2.11	0.50
2:HE:317:MET:HE3	2:HE:375:VAL:HG21	1.94	0.50
2:HG:286:LEU:H	2:HG:286:LEU:HD23	1.76	0.50
3:HH:274:THR:HG21	3:HH:279:GLN:HG3	1.93	0.50
2:HI:50:ASN:O	2:HI:64:ARG:NH1	2.43	0.50
2:HI:70:LEU:HB3	2:HI:97:GLU:O	2.12	0.50
2:HI:345:ASP:N	2:HI:345:ASP:OD1	2.45	0.50
2:HI:388:TRP:CD1	2:HI:425:LEU:HD11	2.46	0.50
2:II:85:GLN:OE1	2:II:85:GLN:N	2.33	0.50
3:JD:282:ARG:NH2	3:JD:288:GLU:OE1	2.37	0.50
3:KD:394:PHE:HD1	3:KD:397:TRP:HZ3	1.60	0.50
2:KE:239:THR:OG1	2:KE:243:ARG:NH1	2.44	0.50
2:KE:438:ASP:O	3:KF:391:ARG:NH2	2.43	0.50
2:KI:217:LEU:O	2:KI:219:ILE:HG12	2.12	0.50
15:L3:187:ARG:HH21	15:L3:249:ILE:HG21	1.77	0.50
3:LF:21:TRP:CZ2	3:LF:63:ALA:HB2	2.47	0.50
2:LI:76:ASP:HA	2:LI:79:ARG:HG2	1.93	0.50
2:LI:124:LYS:HA	2:LI:127:ASP:OD2	2.12	0.50
2:MG:356:ASN:OD1	2:MG:357:TYR:N	2.45	0.50
2:MI:208:ALA:N	2:MI:304:LYS:HZ1	2.10	0.50
17:N3:68:LYS:NZ	17:N3:70:ASP:HB2	2.27	0.50
3:ND:169:VAL:HA	3:ND:202:ILE:HB	1.94	0.50
2:NE:297:GLU:CD	2:NE:299:ALA:H	2.15	0.50
2:NG:6:SER:O	2:NG:65:ALA:HA	2.11	0.50
2:NG:172:TYR:OH	2:NG:387:ALA:HB1	2.12	0.50
2:PI:167:LEU:HD13	2:PI:200:CYS:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Q1:1421:GLN:NE2	20:Q1:1467:GLY:HA2	2.27	0.50
20:Q2:1354:LYS:NZ	20:Q2:1435:SER:HB3	2.26	0.50
2:QE:127:ASP:OD1	2:QE:128:LEU:N	2.44	0.50
2:QE:224:TYR:HB3	2:QE:228:ASN:ND2	2.27	0.50
2:QE:392:ASP:OD1	2:QE:393:HIS:N	2.45	0.50
2:QG:35:GLN:NE2	2:QG:58:ALA:O	2.44	0.50
2:QG:89:PRO:HD2	2:RG:280:LYS:NZ	2.27	0.50
2:QG:188:ILE:HG13	2:QG:421:ALA:HB1	1.92	0.50
2:QG:216:ASN:ND2	2:QG:275:VAL:HG23	2.25	0.50
3:QH:7:LEU:HB3	3:QH:135:LEU:HD13	1.94	0.50
3:QH:274:THR:HG21	3:QH:279:GLN:HG3	1.94	0.50
2:QI:82:THR:O	2:QI:85:GLN:NE2	2.44	0.50
2:QI:272:TYR:CE1	2:QI:374:ALA:HB1	2.47	0.50
2:RE:11:GLN:HA	2:RE:14:VAL:HG22	1.93	0.50
2:RG:390:ARG:HA	2:RG:393:HIS:CD2	2.47	0.50
3:RH:2:ARG:HD3	3:RH:131:GLN:HG3	1.93	0.50
2:SE:396:ASP:HB3	2:SE:422:ARG:HH12	1.76	0.50
2:SG:257:THR:HA	3:SH:397:TRP:CE2	2.47	0.50
2:SG:310:GLY:HA3	2:SG:383:ALA:HB2	1.93	0.50
2:SG:325:PRO:HD2	2:SG:326:LYS:HZ3	1.76	0.50
3:SH:215:LEU:O	3:SH:276:ARG:NH1	2.45	0.50
2:TG:338:LYS:NZ	2:TG:340:THR:HG23	2.26	0.50
2:TI:166:LYS:O	2:TI:199:ASP:HB2	2.12	0.50
2:TI:192:HIS:CE1	2:TI:193:THR:HG23	2.47	0.50
2:TI:203:MET:N	2:TI:203:MET:SD	2.85	0.50
2:UE:23:LEU:HD11	2:UE:229:ARG:HA	1.94	0.50
3:UF:11:GLN:HG3	25:UF:501:GTP:O5'	2.11	0.50
3:UF:150:LEU:HB3	3:UF:154:LYS:HZ1	1.76	0.50
3:UF:309:ARG:N	3:UF:372:THR:OG1	2.28	0.50
2:UG:141:PHE:HB2	2:UG:173:PRO:HD3	1.92	0.50
3:VF:77:ARG:HA	3:VF:82:GLY:HA3	1.92	0.50
3:VF:249:ASP:O	3:VF:253:LEU:HG	2.12	0.50
2:VG:175:PRO:HD2	2:VG:207:GLU:OE1	2.12	0.50
3:VH:197:ASP:OD1	3:VH:198:GLU:N	2.44	0.50
3:VH:218:THR:O	3:VH:220:PRO:HD3	2.12	0.50
3:VH:372:THR:HB	3:VH:375:GLN:HE22	1.77	0.50
3:WF:40:SER:O	3:WF:43:GLN:HG2	2.12	0.50
2:WI:11:GLN:NE2	25:WI:501:GTP:O3A	2.45	0.50
2:WI:53:PHE:CB	2:WI:61:HIS:HB3	2.42	0.50
22:XC:175:ASP:HA	22:XC:182:LYS:NZ	2.27	0.50
22:XE:92:GLN:OE1	22:XE:153:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:XJ:231:MET:HA	23:XJ:231:MET:HE3	1.93	0.50
24:YI:156:GLU:HB3	24:YJ:106:GLN:HB3	1.94	0.50
1:A3:97:ARG:HD3	7:E3:76:TRP:CZ2	2.47	0.50
3:AH:8:GLN:OE1	3:AH:17:GLY:HA3	2.11	0.50
2:AI:101:ASN:HA	2:AI:144:GLY:O	2.12	0.50
2:AI:306:ASP:OD2	2:AI:308:ARG:HG3	2.12	0.50
4:B3:56:ASP:O	4:B3:60:ASN:ND2	2.37	0.50
4:B8:369:HIS:O	4:B8:373:ILE:HG12	2.11	0.50
3:BF:267:MET:HE3	3:BF:299:MET:HG3	1.92	0.50
3:BF:306:ARG:NE	3:BF:306:ARG:O	2.41	0.50
2:BG:227:LEU:O	2:BG:231:ILE:HG12	2.12	0.50
3:BH:273:LEU:O	3:BH:282:ARG:NH1	2.45	0.50
5:C3:170:GLU:OE2	5:C3:322:ARG:NH2	2.44	0.50
5:C3:200:PHE:O	5:C3:204:LYS:HG2	2.12	0.50
5:C7:218:GLU:O	5:C7:222:GLU:HG2	2.12	0.50
3:CF:252:LYS:HD2	2:CG:101:ASN:ND2	2.27	0.50
3:CH:337:ASN:HB2	3:CH:340:TYR:CD2	2.47	0.50
3:CH:405:GLU:HA	3:CH:408:PHE:HD2	1.75	0.50
3:CJ:31:ASP:OD2	3:CJ:33:THR:OG1	2.29	0.50
6:D7:357:LEU:HG	6:D7:377:LEU:HD13	1.94	0.50
2:DG:230:LEU:O	2:DG:233:GLN:HG3	2.12	0.50
3:EH:6:HIS:HE1	3:EH:8:GLN:HB3	1.77	0.50
3:EH:117:LEU:HA	3:EH:120:VAL:HG22	1.94	0.50
8:F7:352:ASP:O	8:F7:356:LYS:HG2	2.12	0.50
3:FD:1:MET:CE	3:FD:2:ARG:H	2.25	0.50
3:FD:30:ILE:HG13	3:FD:36:TYR:HD1	1.76	0.50
3:FF:249:ASP:HB3	3:FF:252:LYS:HG2	1.94	0.50
2:FG:392:ASP:OD1	2:FG:393:HIS:N	2.45	0.50
9:G2:103:PHE:CD2	9:G2:179:LYS:HE3	2.47	0.50
10:G5:99:ILE:HD12	10:G5:194:ASP:HA	1.94	0.50
10:G5:253:TYR:HE2	10:G5:335:ASP:HB3	1.74	0.50
10:G5:734:ARG:NE	10:G5:735:TYR:H	2.03	0.50
3:GH:53:GLU:O	3:HH:283:ALA:HB2	2.12	0.50
11:H4:291:SER:OG	11:H4:295:ASN:OD1	2.30	0.50
2:HE:186:ASN:OD1	2:HE:187:SER:N	2.45	0.50
3:HF:6:HIS:HD2	3:HF:63:ALA:HB1	1.76	0.50
2:HG:15:GLN:OE1	2:HG:15:GLN:N	2.38	0.50
2:HG:166:LYS:HE3	2:HG:198:SER:HA	1.94	0.50
3:IF:372:THR:HG21	3:IF:426:GLN:HB2	1.92	0.50
2:IG:216:ASN:ND2	2:IG:275:VAL:HG23	2.27	0.50
3:IH:6:HIS:HD2	3:IH:134:GLN:HG2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:97:GLU:OE1	2:II:97:GLU:N	2.45	0.50
2:II:135:PHE:HD2	2:II:166:LYS:HG3	1.77	0.50
2:II:174:ALA:HB1	2:II:207:GLU:OE2	2.12	0.50
3:JD:36:TYR:CE2	3:JD:44:LEU:HD13	2.46	0.50
2:JE:311:LYS:HE3	2:JE:344:VAL:HG12	1.94	0.50
14:K2:466:ARG:NH1	3:KD:399:THR:O	2.45	0.50
14:K3:248:MET:SD	14:K3:249:ASN:N	2.85	0.50
14:K3:265:VAL:HG13	14:K3:271:PRO:HD3	1.94	0.50
14:K3:291:PRO:HA	14:K3:294:ALA:HB3	1.94	0.50
14:K3:384:LYS:HG3	14:K3:385:ARG:N	2.27	0.50
3:KF:12:CYS:HA	25:KF:501:GTP:N2	2.27	0.50
2:KG:311:LYS:NZ	2:KG:342:GLN:HB3	2.27	0.50
3:KH:83:GLN:OE1	3:KH:83:GLN:N	2.39	0.50
3:KH:213:ARG:O	3:KH:216:LYS:NZ	2.39	0.50
15:L2:129:ARG:HE	2:LG:90:GLU:HB3	1.77	0.50
2:LE:208:ALA:H	2:LE:304:LYS:NZ	2.09	0.50
2:LE:229:ARG:NH1	2:LE:233:GLN:HB2	2.26	0.50
3:LF:209:ASP:O	3:LF:213:ARG:HB2	2.12	0.50
2:ME:201:ALA:HB3	2:ME:267:PHE:HD1	1.76	0.50
2:MG:174:ALA:HB1	2:MG:207:GLU:OE2	2.11	0.50
3:MH:40:SER:HB2	3:MH:43:GLN:HG2	1.93	0.50
3:MH:174:LYS:HG3	3:MH:175:VAL:N	2.27	0.50
17:N2:160:LYS:HA	17:N2:166:PHE:HD2	1.76	0.50
17:N3:91:GLU:OE1	17:N3:91:GLU:N	2.41	0.50
2:NE:102:ASN:HD21	2:NE:104:ALA:HB3	1.77	0.50
2:NE:243:ARG:HH21	2:NE:320:ARG:NH2	2.09	0.50
2:NG:255:PHE:O	2:NG:259:LEU:HB2	2.12	0.50
3:NH:11:GLN:HG3	25:NH:501:GTP:O5'	2.11	0.50
3:NH:208:TYR:CE1	3:NH:225:LEU:HD21	2.47	0.50
3:NH:415:MET:O	3:NH:419:VAL:HG23	2.12	0.50
2:NI:127:ASP:OD1	2:NI:128:LEU:N	2.43	0.50
3:OD:51:TYR:CD1	3:OD:61:PRO:HA	2.47	0.50
3:OH:183:TYR:O	3:OH:187:LEU:HG	2.12	0.50
2:OI:84:ARG:HA	2:OI:87:PHE:HB2	1.94	0.50
19:P1:437:GLY:HA2	19:P1:463:SER:HA	1.94	0.50
3:PF:288:GLU:O	3:PF:291:GLN:HG2	2.10	0.50
2:PI:315:CYS:HG	2:PI:343:PHE:HZ	1.59	0.50
2:PI:417:GLU:OE1	2:PI:417:GLU:N	2.39	0.50
2:QE:232:GLY:HA2	2:QE:235:VAL:HG12	1.93	0.50
2:QG:140:SER:HB2	2:QG:171:ILE:HG22	1.94	0.50
2:QG:213:CYS:O	2:QG:218:ASP:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:156:ARG:HH21	3:QH:160:PRO:HA	1.75	0.50
2:QI:325:PRO:HA	2:QI:328:VAL:HB	1.93	0.50
2:QI:396:ASP:CA	2:QI:422:ARG:HH12	2.24	0.50
3:RF:111:GLU:HG2	3:RF:112:LEU:HD12	1.93	0.50
3:RH:127:CYS:SG	3:RH:130:LEU:HD21	2.52	0.50
3:RH:292:GLN:HG2	3:RH:298:ASN:ND2	2.26	0.50
2:RI:234:ILE:O	2:RI:237:SER:OG	2.27	0.50
2:SE:98:ASP:O	2:SE:105:ARG:NE	2.27	0.50
2:SE:119:LEU:HA	2:SE:122:ILE:HG12	1.94	0.50
2:SE:311:LYS:N	2:SE:382:THR:OG1	2.45	0.50
2:SG:50:ASN:OD1	2:SG:51:THR:N	2.45	0.50
2:SG:252:LEU:HD12	2:SG:253:THR:N	2.27	0.50
2:SI:358:GLN:NE2	2:SI:359:PRO:O	2.44	0.50
3:SJ:5:VAL:O	3:SJ:133:PHE:HA	2.12	0.50
3:TH:83:GLN:OE1	3:TH:83:GLN:N	2.33	0.50
3:TH:405:GLU:HA	3:TH:408:PHE:CD2	2.47	0.50
2:TI:107:HIS:HB3	2:TI:108:TYR:CD1	2.46	0.50
3:TJ:313:VAL:O	3:TJ:349:VAL:HA	2.12	0.50
3:UD:246:LEU:CB	3:UD:353:VAL:H	2.25	0.50
3:UD:375:GLN:NE2	3:UD:422:TYR:HB3	2.27	0.50
2:UE:224:TYR:CE1	25:UE:501:GTP:C5	2.92	0.50
3:UH:282:ARG:NE	3:UH:288:GLU:OE1	2.38	0.50
3:VD:209:ASP:OD1	3:VD:213:ARG:NH2	2.44	0.50
2:VE:11:GLN:HG2	2:VE:12:ALA:N	2.27	0.50
2:VG:137:ILE:HB	2:VG:168:GLU:HA	1.92	0.50
2:VG:287:SER:N	2:VG:290:GLU:OE2	2.45	0.50
3:VH:134:GLN:N	3:VH:134:GLN:OE1	2.44	0.50
2:WI:227:LEU:O	2:WI:230:LEU:HG	2.12	0.50
2:WI:256:GLN:O	2:WI:260:VAL:HG12	2.12	0.50
22:XC:81:LYS:HD2	22:XC:129:TRP:NE1	2.26	0.50
22:XD:82:ASN:ND2	22:XD:126:ASP:O	2.39	0.50
22:XD:178:PRO:HD2	22:XD:181:PHE:CD2	2.47	0.50
24:YI:47:GLU:HA	24:YI:50:GLN:OE1	2.12	0.50
24:YI:73:CYS:O	24:YI:76:LEU:HG	2.12	0.50
24:YM:147:PHE:HA	24:YM:150:GLU:OE1	2.12	0.50
1:A3:169:TYR:CD2	9:G2:196:SER:HA	2.46	0.49
1:A3:192:ASN:OD1	1:A3:195:SER:N	2.45	0.49
2:AG:334:THR:O	2:AG:337:THR:OG1	2.22	0.49
3:AH:313:VAL:HB	3:AH:367:PHE:HE1	1.77	0.49
3:AH:322:SER:HG	3:AH:324:LYS:NZ	2.10	0.49
4:B2:301:GLU:O	4:B2:304:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B3:120:ARG:NH1	4:B3:387:ASP:OD1	2.45	0.49
2:BE:5:ILE:HB	2:BE:135:PHE:HD1	1.76	0.49
3:BF:138:SER:HB2	3:BF:169:VAL:HG12	1.93	0.49
3:CF:317:PHE:HB2	3:CF:353:VAL:HG22	1.94	0.49
2:CG:115:VAL:HG21	2:CG:156:ARG:HD3	1.94	0.49
2:CI:50:ASN:O	2:CI:64:ARG:NH1	2.43	0.49
2:CI:417:GLU:CD	2:CI:417:GLU:H	2.16	0.49
6:D3:202:ARG:HH22	6:D3:205:ARG:HH11	1.60	0.49
6:D3:340:LYS:O	6:D3:343:ILE:HG22	2.12	0.49
6:D8:406:GLU:HA	6:D8:409:ARG:HG2	1.93	0.49
2:DE:166:LYS:O	2:DE:199:ASP:HB2	2.12	0.49
2:DE:209:ILE:HG21	2:DE:227:LEU:HG	1.93	0.49
3:DF:87:PRO:HD2	3:EF:281:TYR:CE2	2.48	0.49
3:DF:372:THR:HB	3:DF:375:GLN:HE22	1.76	0.49
2:DG:119:LEU:HA	2:DG:122:ILE:HG12	1.93	0.49
2:DG:329:ASN:HA	2:DG:332:ILE:HG12	1.94	0.49
8:F3:251:GLU:HA	8:F3:254:ILE:HG22	1.94	0.49
8:F3:295:THR:O	8:F3:298:LYS:HG2	2.12	0.49
8:F7:165:THR:OG1	8:F7:166:GLU:N	2.45	0.49
3:FD:176:SER:O	3:FD:178:THR:N	2.45	0.49
2:FE:105:ARG:O	2:FE:109:THR:OG1	2.24	0.49
3:FH:72:THR:O	3:FH:76:VAL:HG13	2.12	0.49
3:FH:378:PHE:O	3:FH:381:ILE:HG22	2.12	0.49
9:G2:315:ILE:HD12	9:G2:315:ILE:H	1.77	0.49
10:G5:449:ASP:HB2	10:G5:470:GLU:HG2	1.93	0.49
2:GG:187:SER:O	2:GG:191:THR:HG23	2.13	0.49
2:GI:187:SER:O	2:GI:190:THR:OG1	2.24	0.49
3:HD:11:GLN:HG3	25:HD:501:GTP:PA	2.52	0.49
3:HD:318:ARG:NE	3:HD:356:ILE:O	2.21	0.49
2:HE:88:HIS:O	2:HE:91:GLN:HG2	2.12	0.49
2:HG:50:ASN:O	2:HG:64:ARG:NH1	2.45	0.49
3:HH:8:GLN:HG2	3:HH:65:LEU:HA	1.93	0.49
12:I3:51:ASP:O	12:I3:55:THR:HG23	2.12	0.49
2:IE:306:ASP:OD2	2:IE:308:ARG:HG2	2.12	0.49
3:IF:11:GLN:HG3	25:IF:501:GTP:O5'	2.12	0.49
2:IG:253:THR:O	2:IG:257:THR:HG23	2.12	0.49
2:IG:326:LYS:HA	2:IG:329:ASN:HD21	1.77	0.49
13:J2:165:VAL:O	13:J2:177:ASN:HB3	2.12	0.49
2:JE:301:GLN:HG3	2:JE:303:VAL:H	1.77	0.49
3:JF:289:LEU:HD21	3:JF:363:MET:HB3	1.94	0.49
14:K2:490:ALA:O	14:K2:493:GLN:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:389:ALA:HB3	2:KI:163:LYS:HG2	1.94	0.49
3:KD:11:GLN:HG3	25:KD:501:GTP:PA	2.52	0.49
2:KE:135:PHE:HE2	2:KE:157:LEU:HD13	1.76	0.49
3:KF:380:ARG:HA	3:KF:383:GLU:OE1	2.12	0.49
15:L2:157:TYR:CE1	2:MG:396:ASP:HB2	2.47	0.49
3:LH:229:VAL:O	3:LH:232:THR:OG1	2.23	0.49
3:LH:233:MET:O	3:LH:236:VAL:HG12	2.12	0.49
3:LH:323:MET:O	3:LH:326:VAL:HG22	2.12	0.49
2:LI:325:PRO:O	2:LI:329:ASN:ND2	2.45	0.49
2:ME:107:HIS:HD2	2:ME:152:LEU:HB2	1.77	0.49
3:MF:349:VAL:O	3:MF:350:LYS:NZ	2.26	0.49
2:MI:263:PRO:O	2:MI:264:ARG:HB2	2.11	0.49
2:MI:415:GLU:OE1	2:MI:415:GLU:N	2.38	0.49
3:ND:30:ILE:HG13	3:ND:36:TYR:HD1	1.77	0.49
3:ND:47:ILE:HG12	3:ND:59:TYR:CD2	2.47	0.49
2:NE:115:VAL:HA	2:NE:118:VAL:HG22	1.94	0.49
2:NE:401:LYS:C	2:NE:402:ARG:HD3	2.32	0.49
3:NF:249:ASP:OD2	3:NF:251:ARG:HB2	2.12	0.49
3:NH:186:THR:HA	3:NH:189:VAL:HG12	1.94	0.49
3:NH:217:LEU:HD11	3:NH:220:PRO:HB3	1.94	0.49
2:OE:108:TYR:O	2:OE:112:LYS:NZ	2.30	0.49
3:OF:2:ARG:HH12	2:OG:72:PRO:HD3	1.77	0.49
3:OF:163:ILE:HG21	3:OF:250:LEU:HD23	1.93	0.49
2:OG:121:ARG:NH1	2:OG:124:LYS:HE2	2.27	0.49
3:OH:7:LEU:HD13	3:OH:64:VAL:HB	1.94	0.49
3:OH:162:ARG:HD3	3:OH:251:ARG:NH2	2.26	0.49
3:OH:229:VAL:O	3:OH:232:THR:OG1	2.23	0.49
3:OH:390:ARG:O	3:OH:392:LYS:NZ	2.36	0.49
19:P1:511:HIS:CE1	19:P1:513:GLU:HG2	2.47	0.49
3:PF:243:PRO:HG2	3:PF:356:ILE:HD11	1.93	0.49
2:PG:228:ASN:HA	2:PG:231:ILE:HG22	1.94	0.49
2:PI:11:GLN:O	2:PI:14:VAL:HG22	2.12	0.49
20:Q1:1358:ILE:H	20:Q1:1393:LYS:HB3	1.76	0.49
20:Q1:1425:LYS:HG3	20:Q1:1497:TYR:HE1	1.77	0.49
2:QE:4:CYS:SG	2:QE:134:GLY:N	2.85	0.49
2:QE:311:LYS:NZ	2:QE:343:PHE:O	2.40	0.49
2:QE:345:ASP:N	2:QE:345:ASP:OD1	2.45	0.49
3:QF:228:LEU:O	3:QF:232:THR:HG23	2.12	0.49
2:RE:154:MET:HE1	2:RE:194:THR:HA	1.94	0.49
2:RE:256:GLN:O	2:RE:260:VAL:HG12	2.12	0.49
2:RI:427:ALA:HA	2:RI:430:LYS:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:389:PHE:O	3:RJ:392:LYS:HD3	2.11	0.49
2:SI:319:TYR:HA	2:SI:374:ALA:O	2.12	0.49
3:TF:221:THR:OG1	3:TF:224:ASP:N	2.43	0.49
2:TI:5:ILE:O	2:TI:135:PHE:HA	2.12	0.49
2:TI:168:GLU:HB2	2:TI:201:ALA:HA	1.94	0.49
3:TJ:102:ALA:HB1	3:TJ:401:GLU:OE1	2.11	0.49
2:UE:81:GLY:O	2:UE:84:ARG:NH1	2.45	0.49
2:UE:401:LYS:C	2:UE:402:ARG:HD3	2.31	0.49
2:UG:255:PHE:HA	2:UG:259:LEU:HD23	1.94	0.49
2:VE:125:LEU:O	2:VE:128:LEU:HG	2.12	0.49
3:VF:5:VAL:HG22	3:VF:62:ARG:HB3	1.93	0.49
2:VG:56:THR:HB	2:WG:285:GLN:HG3	1.93	0.49
3:WF:251:ARG:O	3:WF:255:VAL:HG22	2.11	0.49
2:WG:166:LYS:N	2:WG:199:ASP:OD2	2.45	0.49
2:WG:325:PRO:HA	2:WG:328:VAL:HG22	1.94	0.49
2:WI:120:ASP:HA	2:WI:123:ARG:HG2	1.93	0.49
2:WI:311:LYS:HE3	2:WI:344:VAL:HG12	1.93	0.49
22:XD:72:LYS:HE3	23:XK:62:ARG:HD2	1.94	0.49
23:XL:145:ASN:O	23:XL:149:ILE:HG12	2.11	0.49
24:YL:87:HIS:HB2	24:YL:165:HIS:HB2	1.94	0.49
24:YN:4:VAL:O	24:YN:8:LEU:HG	2.12	0.49
1:A3:170:ASN:HA	1:A3:173:LYS:HZ2	1.78	0.49
2:AE:256:GLN:NE2	2:AE:257:THR:HG23	2.27	0.49
2:AE:304:LYS:HB3	17:N2:82:HIS:HA	1.94	0.49
2:AG:327:ASP:OD1	2:AG:328:VAL:N	2.45	0.49
2:AI:311:LYS:HE3	2:AI:344:VAL:HG12	1.94	0.49
4:B3:184:GLU:OE1	4:B3:187:ARG:NH2	2.39	0.49
3:BF:16:ILE:HD11	3:BF:229:VAL:HG23	1.94	0.49
2:BI:167:LEU:HB3	2:BI:169:PHE:HE1	1.77	0.49
5:C3:287:VAL:HB	5:C3:290:VAL:HG21	1.95	0.49
3:CF:52:ASN:OD1	3:CF:53:GLU:N	2.37	0.49
2:CG:10:GLY:O	2:CG:14:VAL:HG13	2.12	0.49
2:CG:311:LYS:N	2:CG:382:THR:OG1	2.41	0.49
2:CG:336:LYS:HZ1	3:CH:175:VAL:HB	1.78	0.49
2:CG:368:LEU:H	2:CG:368:LEU:HD23	1.77	0.49
3:CH:278:SER:O	3:CH:282:ARG:CB	2.55	0.49
2:CI:188:ILE:HG12	2:CI:421:ALA:HB1	1.94	0.49
3:CJ:252:LYS:HA	3:CJ:255:VAL:HG22	1.94	0.49
6:D4:383:GLU:O	6:D4:386:MET:HG3	2.13	0.49
6:D7:335:GLN:HB3	6:D8:78:ARG:NH1	2.27	0.49
2:DE:390:ARG:HA	2:DE:393:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:11:GLN:HG3	25:DF:501:GTP:PA	2.52	0.49
2:EG:260:VAL:HG23	2:EG:265:ILE:O	2.12	0.49
3:EH:6:HIS:ND1	3:EH:8:GLN:OE1	2.45	0.49
3:FD:12:CYS:HB3	25:FD:501:GTP:O4'	2.12	0.49
2:FE:145:THR:HG22	25:FE:501:GTP:PB	2.52	0.49
3:FF:375:GLN:HA	3:FF:378:PHE:CZ	2.47	0.49
2:FG:161:TYR:HB3	2:FG:164:LYS:NZ	2.27	0.49
9:G1:474:LYS:HA	9:G1:485:TYR:CD2	2.47	0.49
9:G2:187:ASP:N	9:G2:187:ASP:OD1	2.45	0.49
3:GD:234:SER:O	3:GD:238:THR:HG23	2.12	0.49
3:HD:3:GLU:OE2	3:HD:127:CYS:HB2	2.11	0.49
3:HD:246:LEU:HB3	3:HD:353:VAL:O	2.12	0.49
2:HG:427:ALA:O	2:HG:430:LYS:HG3	2.12	0.49
3:IF:41:ASP:OD1	3:IF:42:LEU:N	2.45	0.49
3:IF:100:ASN:OD1	3:IF:101:TRP:N	2.45	0.49
3:IF:394:PHE:HD2	3:IF:397:TRP:HZ3	1.59	0.49
3:IH:73:MET:HA	3:IH:76:VAL:HG22	1.94	0.49
3:IH:217:LEU:HD11	3:IH:220:PRO:HB3	1.94	0.49
3:IH:305:PRO:HB2	3:IH:310:TYR:CZ	2.48	0.49
2:II:288:VAL:HA	2:II:291:ILE:HG12	1.93	0.49
2:II:338:LYS:NZ	2:II:339:ARG:H	2.09	0.49
13:J2:146:ASN:ND2	13:J2:175:ILE:HG22	2.27	0.49
13:J3:80:LEU:N	13:J3:151:GLN:OE1	2.46	0.49
3:JD:214:THR:HG23	3:JD:215:LEU:HD12	1.94	0.49
2:JE:203:MET:SD	2:JE:203:MET:N	2.83	0.49
2:JG:304:LYS:HD2	2:JG:304:LYS:N	2.28	0.49
3:JH:2:ARG:HB3	3:JH:131:GLN:CD	2.32	0.49
14:K2:194:LYS:HD2	14:K2:194:LYS:H	1.77	0.49
14:K2:389:ALA:HB3	2:KE:163:LYS:HZ3	1.77	0.49
14:K2:428:HIS:HA	14:K2:431:LYS:HE2	1.94	0.49
14:K3:462:ARG:O	14:K3:466:ARG:HG2	2.11	0.49
3:KD:118:ASP:OD1	3:KD:121:ARG:NH1	2.45	0.49
2:KE:205:ASP:O	2:KE:209:ILE:HG12	2.11	0.49
3:KF:40:SER:O	3:KF:43:GLN:HG2	2.11	0.49
2:KG:397:LEU:O	2:KG:401:LYS:HG2	2.12	0.49
3:KH:28:HIS:CE1	3:KH:43:GLN:HB2	2.47	0.49
2:KI:207:GLU:HB2	2:KI:304:LYS:NZ	2.27	0.49
15:L2:27:TYR:CZ	2:ME:389:ALA:HB2	2.47	0.49
15:L2:188:LEU:HB2	15:L2:252:ILE:CG1	2.39	0.49
2:LE:260:VAL:O	3:LF:397:TRP:HH2	1.96	0.49
2:LG:69:ASP:OD1	2:LG:70:LEU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:97:ALA:HA	3:MH:103:LYS:HD2	1.92	0.49
3:MH:164:MET:HG2	3:MH:164:MET:O	2.12	0.49
2:NG:25:CYS:HB2	2:NG:30:ILE:HB	1.94	0.49
2:NI:226:ASN:ND2	2:NI:367:ASP:OD2	2.45	0.49
18:O2:46:ARG:HD2	18:O2:48:HIS:ND1	2.27	0.49
3:OD:31:ASP:OD1	3:OD:35:THR:N	2.46	0.49
19:P1:586:HIS:CG	19:P1:590:ILE:HG12	2.47	0.49
19:P2:93:ILE:HD11	19:P2:114:ILE:HG21	1.93	0.49
2:PE:107:HIS:ND1	2:PE:151:SER:OG	2.37	0.49
2:PE:317:MET:O	2:PE:353:VAL:HA	2.12	0.49
2:PG:279:GLU:CB	24:YK:127:CYS:HB3	2.42	0.49
2:PG:301:GLN:N	2:PG:301:GLN:OE1	2.44	0.49
3:PH:12:CYS:HB3	25:PH:501:GTP:H5'	1.94	0.49
3:PH:309:ARG:O	3:PH:371:SER:OG	2.27	0.49
3:PH:374:ILE:HG23	3:PH:377:LEU:HD23	1.93	0.49
2:PI:185:TYR:O	2:PI:189:LEU:HG	2.12	0.49
2:QE:49:PHE:HB2	2:QE:53:PHE:HB2	1.93	0.49
3:QF:395:LEU:HD23	3:QF:399:THR:HG23	1.94	0.49
2:RE:166:LYS:O	2:RE:199:ASP:HB2	2.12	0.49
2:RG:166:LYS:N	2:RG:199:ASP:OD2	2.44	0.49
3:RH:375:GLN:OE1	3:RH:375:GLN:N	2.34	0.49
2:RI:108:TYR:O	2:RI:112:LYS:NZ	2.34	0.49
3:RJ:406:MET:O	3:RJ:409:THR:OG1	2.23	0.49
2:SG:113:GLU:OE1	2:SG:113:GLU:N	2.42	0.49
2:SG:326:LYS:HA	2:SG:329:ASN:HD21	1.78	0.49
3:SH:403:MET:HG2	3:SH:404:ASP:H	1.76	0.49
3:SJ:3:GLU:OE2	3:SJ:129:CYS:N	2.45	0.49
3:TF:7:LEU:HD13	3:TF:64:VAL:HB	1.93	0.49
2:TI:438:ASP:HA	3:TJ:391:ARG:HH12	1.76	0.49
3:TJ:47:ILE:HG13	3:TJ:51:TYR:HB2	1.93	0.49
3:UD:247:ASN:OD1	2:UE:11:GLN:NE2	2.45	0.49
3:UF:30:ILE:HG13	3:UF:36:TYR:HD1	1.77	0.49
3:UF:31:ASP:OD2	3:UF:33:THR:OG1	2.30	0.49
3:UF:61:PRO:HD3	3:UF:84:ILE:HG13	1.94	0.49
3:VD:52:ASN:OD1	3:VD:62:ARG:NH1	2.45	0.49
2:VE:206:ASN:HA	2:VE:209:ILE:HD12	1.93	0.49
2:VG:286:LEU:HD11	2:VG:372:GLN:HB2	1.94	0.49
2:WE:141:PHE:HB2	2:WE:173:PRO:HD3	1.93	0.49
2:WE:172:TYR:HB2	2:WE:203:MET:HB2	1.93	0.49
2:WE:194:THR:O	2:WE:198:SER:N	2.37	0.49
2:WE:310:GLY:HA3	2:WE:383:ALA:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:314:ALA:HA	3:WF:350:LYS:O	2.12	0.49
2:WG:154:MET:HA	2:WG:157:LEU:HG	1.94	0.49
2:WG:214:ARG:NH1	2:WG:215:ARG:HG3	2.27	0.49
2:WI:53:PHE:HA	2:WI:63:PRO:HA	1.94	0.49
22:XE:84:LYS:HZ1	23:XK:240:LEU:N	2.10	0.49
23:XJ:56:PHE:HB2	23:XJ:98:ASP:HB3	1.93	0.49
23:XL:66:PRO:O	23:XL:81:LYS:HB2	2.13	0.49
23:XL:211:GLU:O	23:XL:214:GLU:HG3	2.11	0.49
24:YL:41:ARG:HH22	24:YL:45:SER:N	2.10	0.49
1:A2:197:ASN:ND2	1:A2:197:ASN:O	2.45	0.49
1:A3:55:SER:O	1:A3:59:VAL:HG23	2.12	0.49
2:AG:175:PRO:HD3	2:AG:205:ASP:OD2	2.12	0.49
2:AG:215:ARG:NH1	2:AG:299:ALA:O	2.31	0.49
2:AI:50:ASN:O	2:AI:64:ARG:NH1	2.44	0.49
3:BF:342:VAL:HB	3:BF:344:TRP:HE3	1.76	0.49
2:BG:55:GLU:HG3	2:BG:60:LYS:C	2.33	0.49
3:BH:331:LEU:HD11	2:BI:176:GLN:OE1	2.12	0.49
2:BI:125:LEU:HD13	2:BI:128:LEU:HD21	1.94	0.49
5:C8:372:ILE:O	5:C8:375:ILE:HG22	2.12	0.49
3:CF:376:GLU:OE1	3:CF:376:GLU:N	2.31	0.49
3:CF:380:ARG:O	3:CF:384:GLN:HG2	2.11	0.49
3:CH:344:TRP:HD1	2:CI:401:LYS:HD3	1.76	0.49
2:CI:10:GLY:O	2:CI:13:GLY:N	2.45	0.49
2:CI:69:ASP:OD1	2:CI:70:LEU:N	2.44	0.49
2:CI:148:GLY:O	2:CI:151:SER:OG	2.16	0.49
2:CI:208:ALA:N	2:CI:304:LYS:HZ1	2.09	0.49
3:DF:11:GLN:O	3:DF:14:ASN:HB2	2.11	0.49
3:DF:211:CYS:HA	3:DF:215:LEU:HD13	1.93	0.49
2:DG:325:PRO:O	2:DG:329:ASN:ND2	2.45	0.49
3:DH:65:LEU:HD23	3:DH:90:PHE:HE1	1.77	0.49
3:ED:32:PRO:O	3:ED:83:GLN:NE2	2.41	0.49
2:EE:33:ASP:C	2:EE:86:LEU:HD21	2.32	0.49
2:EE:112:LYS:O	2:EE:115:VAL:HG12	2.12	0.49
3:EF:203:ASP:OD2	3:EF:205:GLU:HB2	2.12	0.49
8:F6:239:GLN:NE2	8:F6:239:GLN:O	2.45	0.49
8:F7:441:LEU:HD23	8:F7:444:LEU:HD21	1.94	0.49
3:FD:409:THR:O	3:FD:412:GLU:HG3	2.12	0.49
3:FF:238:THR:HG21	3:FF:318:ARG:NH1	2.28	0.49
2:GE:2:ARG:NH1	2:GE:241:SER:O	2.45	0.49
2:GE:89:PRO:HD3	2:HE:283:HIS:NE2	2.27	0.49
3:GF:46:ARG:NE	3:GF:46:ARG:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:4:ILE:HD11	3:GH:131:GLN:HB2	1.93	0.49
2:GI:142:GLY:HA3	2:GI:183:GLU:HB2	1.94	0.49
11:H3:245:ASP:O	11:H3:249:LYS:HG3	2.12	0.49
2:HE:33:ASP:OD1	2:HE:34:GLY:N	2.45	0.49
2:HE:397:LEU:O	2:HE:401:LYS:HG2	2.11	0.49
2:HI:189:LEU:O	2:HI:192:HIS:ND1	2.46	0.49
2:IE:196:GLU:OE1	2:IE:196:GLU:N	2.40	0.49
3:IH:100:ASN:OD1	3:IH:103:LYS:N	2.40	0.49
2:II:287:SER:OG	2:II:290:GLU:OE1	2.22	0.49
13:J2:165:VAL:HA	13:J2:178:ILE:HG23	1.94	0.49
3:JD:217:LEU:O	3:JD:219:THR:N	2.44	0.49
2:JE:257:THR:HA	3:JF:397:TRP:CE2	2.47	0.49
2:JG:42:ILE:HG21	2:JG:59:GLY:HA2	1.93	0.49
3:JH:250:LEU:HA	3:JH:253:LEU:HD12	1.94	0.49
2:KG:71:GLU:N	2:KG:71:GLU:OE1	2.45	0.49
3:KH:390:ARG:O	3:KH:390:ARG:NH1	2.36	0.49
2:KI:280:LYS:O	2:KI:284:GLU:HB2	2.11	0.49
2:KI:368:LEU:H	2:KI:368:LEU:HD23	1.77	0.49
15:L2:231:GLU:HA	15:L2:234:MET:HB2	1.93	0.49
3:LD:2:ARG:HB3	3:LD:131:GLN:NE2	2.27	0.49
3:LD:318:ARG:HG2	3:LD:357:PRO:HA	1.93	0.49
3:LD:331:LEU:HD21	2:LE:177:VAL:HG22	1.94	0.49
3:LD:378:PHE:HA	3:LD:381:ILE:HG12	1.95	0.49
3:LF:17:GLY:O	3:LF:21:TRP:HD1	1.94	0.49
3:LF:137:HIS:O	3:LF:168:SER:HA	2.13	0.49
2:ME:381:THR:OG1	2:ME:382:THR:N	2.45	0.49
3:MF:142:GLY:N	25:MF:501:GTP:O3B	2.44	0.49
2:MI:82:THR:HA	2:MI:84:ARG:HH11	1.77	0.49
3:NF:392:LYS:HD2	3:NF:392:LYS:O	2.12	0.49
2:NG:401:LYS:C	2:NG:402:ARG:HD3	2.32	0.49
3:NH:197:ASP:OD1	3:NH:198:GLU:N	2.45	0.49
2:NI:171:ILE:HD12	2:NI:204:VAL:HG13	1.94	0.49
2:NI:213:CYS:O	2:NI:218:ASP:N	2.45	0.49
2:NI:265:ILE:HB	2:NI:432:TYR:CE1	2.47	0.49
2:OE:422:ARG:HD2	2:OE:425:LEU:HD21	1.93	0.49
3:OH:282:ARG:NH2	3:OH:283:ALA:O	2.46	0.49
19:P1:518:ILE:HA	19:P1:527:ALA:O	2.13	0.49
19:P2:392:ALA:HB1	19:P2:420:VAL:HG12	1.93	0.49
19:P2:418:ILE:O	19:P2:418:ILE:HG22	2.12	0.49
2:PI:178:SER:OG	2:PI:180:ALA:O	2.29	0.49
2:QE:1:MET:O	2:QE:131:GLY:HA3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:360:PRO:HG2	2:QE:374:ALA:HB2	1.94	0.49
2:QG:212:ILE:HD13	2:QG:215:ARG:HD2	1.93	0.49
3:QH:20:PHE:CZ	3:QH:24:ILE:HD11	2.47	0.49
2:QI:397:LEU:O	2:QI:401:LYS:HG2	2.12	0.49
3:RJ:6:HIS:CD2	3:RJ:134:GLN:HG2	2.47	0.49
3:RJ:375:GLN:HA	3:RJ:378:PHE:CZ	2.47	0.49
3:SF:347:ASN:O	3:SF:350:LYS:NZ	2.45	0.49
2:SG:224:TYR:HE2	25:SG:501:GTP:O6	1.95	0.49
3:SH:388:MET:SD	3:SH:393:ALA:HB3	2.52	0.49
3:SJ:407:GLU:HA	3:SJ:410:GLU:CD	2.32	0.49
3:SJ:418:LEU:O	3:SJ:421:GLU:HG3	2.11	0.49
3:UH:345:ILE:HD12	3:UH:346:PRO:HD2	1.94	0.49
3:VD:19:LYS:O	3:VD:22:GLU:HG3	2.13	0.49
3:VD:20:PHE:CE2	3:VD:24:ILE:HD11	2.47	0.49
3:VD:42:LEU:HD12	3:VD:243:PRO:HD2	1.92	0.49
3:VD:101:TRP:O	3:VD:105:HIS:HB2	2.12	0.49
3:VD:233:MET:O	3:VD:236:VAL:HG12	2.11	0.49
2:VE:209:ILE:HG23	2:VE:230:LEU:HD21	1.95	0.49
2:VE:272:TYR:CZ	2:VE:274:PRO:HG2	2.47	0.49
3:VF:199:THR:HB	3:VF:265:PHE:HA	1.93	0.49
2:WG:47:ASP:H	2:WG:50:ASN:HB3	1.78	0.49
3:WH:156:ARG:NH2	3:WH:160:PRO:HA	2.20	0.49
3:WH:190:HIS:ND1	3:WH:411:ALA:HA	2.26	0.49
2:WI:13:GLY:O	2:WI:16:ILE:HG12	2.12	0.49
24:YI:96:LEU:HD23	24:YI:99:LYS:HE3	1.94	0.49
24:YJ:44:SER:HB3	24:YJ:111:SER:HB3	1.95	0.49
1:A3:38:VAL:O	1:A3:41:SER:OG	2.23	0.49
2:AE:320:ARG:HH21	2:AE:358:GLN:HG3	1.77	0.49
3:AF:299:MET:SD	3:AF:300:MET:N	2.85	0.49
2:AG:176:GLN:HB3	2:AG:390:ARG:NH2	2.26	0.49
2:AI:184:PRO:HG3	2:AI:394:LYS:NZ	2.28	0.49
2:AI:293:ASN:HB3	17:N3:68:LYS:NZ	2.27	0.49
4:B2:316:THR:HG21	4:B3:199:ILE:HG22	1.94	0.49
4:B3:73:ARG:O	4:B3:76:GLU:HG3	2.11	0.49
4:B7:369:HIS:O	4:B7:373:ILE:HG23	2.12	0.49
3:BF:203:ASP:O	3:BF:207:LEU:HG	2.13	0.49
3:BH:226:ASN:HA	3:BH:229:VAL:HG22	1.94	0.49
3:BH:273:LEU:H	3:BH:292:GLN:NE2	2.06	0.49
5:C4:384:LYS:NZ	7:E3:76:TRP:O	2.44	0.49
5:C7:127:LEU:HA	5:C7:130:ASP:OD2	2.11	0.49
2:CG:21:TRP:CZ2	2:CG:65:ALA:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:187:LEU:HD21	3:CJ:408:PHE:HE1	1.78	0.49
6:D3:121:ILE:HD11	6:D3:211:CYS:HB3	1.94	0.49
6:D3:131:MET:HE2	6:D3:279:ARG:HH11	1.77	0.49
6:D7:346:LYS:NZ	6:D7:384:LEU:O	2.32	0.49
3:DD:137:HIS:O	3:DD:168:SER:HA	2.12	0.49
2:DE:409:VAL:HA	2:DE:413:MET:H	1.77	0.49
7:E2:130:SER:C	7:E2:132:PRO:HD2	2.33	0.49
3:ED:405:GLU:O	3:ED:409:THR:HG23	2.12	0.49
2:EE:224:TYR:O	2:EE:228:ASN:HB2	2.12	0.49
3:EH:233:MET:HA	3:EH:236:VAL:HG12	1.94	0.49
8:F3:129:GLN:HB3	8:F3:133:GLN:HE22	1.77	0.49
2:FG:172:TYR:CD1	2:FG:173:PRO:HD2	2.48	0.49
3:GD:58:LYS:NZ	3:HD:280:GLN:O	2.36	0.49
3:GF:262:ARG:HD2	3:GF:421:GLU:HG3	1.95	0.49
3:GH:322:SER:HB2	2:GI:221:ARG:CZ	2.42	0.49
2:GI:171:ILE:HD12	2:GI:204:VAL:O	2.12	0.49
11:H4:279:GLN:HB2	11:H4:308:TYR:CE2	2.47	0.49
11:H4:306:ARG:HD2	11:H4:309:GLN:NE2	2.28	0.49
3:HD:173:PRO:O	3:HD:380:ARG:NH2	2.45	0.49
25:HD:501:GTP:O3G	25:HD:501:GTP:O3'	2.18	0.49
3:HF:170:VAL:N	3:HF:202:ILE:O	2.26	0.49
3:HF:405:GLU:O	3:HF:409:THR:HG23	2.12	0.49
3:HH:378:PHE:HE1	3:HH:419:VAL:HG13	1.77	0.49
2:HI:310:GLY:HA3	2:HI:383:ALA:HB2	1.94	0.49
3:IF:28:HIS:O	3:IF:43:GLN:NE2	2.46	0.49
3:JD:8:GLN:OE1	3:JD:14:ASN:HA	2.13	0.49
3:JD:261:PRO:O	3:JD:264:HIS:NE2	2.45	0.49
3:JF:40:SER:HB2	3:JF:43:GLN:CG	2.43	0.49
2:JG:228:ASN:HA	2:JG:231:ILE:HG12	1.93	0.49
14:K3:235:ASP:O	14:K3:238:CYS:HB3	2.11	0.49
2:KE:33:ASP:OD1	2:KE:34:GLY:N	2.46	0.49
2:KE:88:HIS:ND1	2:KE:91:GLN:HG3	2.27	0.49
3:KF:319:GLY:HA2	3:KF:357:PRO:HG3	1.94	0.49
3:KF:348:ASN:OD1	3:KF:348:ASN:N	2.44	0.49
2:KG:417:GLU:OE1	2:KG:417:GLU:N	2.36	0.49
2:KI:207:GLU:HB2	2:KI:304:LYS:HZ1	1.76	0.49
15:L2:123:PRO:O	15:L2:136:LEU:HB3	2.13	0.49
3:LF:324:LYS:NZ	2:LG:222:PRO:O	2.25	0.49
2:LG:333:ALA:HA	2:LG:336:LYS:HD2	1.94	0.49
3:LH:238:THR:HG21	3:LH:318:ARG:HD2	1.94	0.49
3:MH:100:ASN:OD1	3:MH:103:LYS:N	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:306:ARG:NE	3:MH:306:ARG:O	2.44	0.49
3:MH:381:ILE:HA	3:MH:384:GLN:HE21	1.77	0.49
3:ND:155:ILE:HA	3:ND:158:GLU:HB2	1.94	0.49
3:ND:233:MET:HA	3:ND:236:VAL:HG12	1.94	0.49
2:NE:33:ASP:OD1	2:NE:34:GLY:N	2.46	0.49
3:NH:53:GLU:HB2	3:NH:59:TYR:CE2	2.48	0.49
3:NH:139:LEU:N	3:NH:168:SER:OG	2.44	0.49
2:NI:200:CYS:HB3	2:NI:202:PHE:CZ	2.47	0.49
2:NI:213:CYS:O	2:NI:219:ILE:N	2.37	0.49
18:O1:37:GLY:HA2	20:Q1:1413:SER:HA	1.95	0.49
2:OE:285:GLN:NE2	2:OE:286:LEU:O	2.45	0.49
3:OF:419:VAL:HG12	3:OF:423:GLN:HE22	1.77	0.49
2:OG:311:LYS:HE3	2:OG:344:VAL:HG12	1.95	0.49
2:OG:390:ARG:HA	2:OG:393:HIS:CE1	2.47	0.49
2:OI:27:GLU:HG3	2:OI:243:ARG:CZ	2.42	0.49
2:OI:55:GLU:HA	2:OI:60:LYS:O	2.12	0.49
2:OI:84:ARG:HA	2:OI:87:PHE:HD2	1.77	0.49
2:OI:272:TYR:CE1	2:OI:374:ALA:HB1	2.47	0.49
19:P1:79:ILE:O	19:P1:95:LEU:HA	2.13	0.49
2:PE:28:HIS:ND1	2:PE:28:HIS:O	2.46	0.49
3:PF:12:CYS:SG	3:PF:13:GLY:N	2.85	0.49
20:Q2:1451:TRP:O	20:Q2:1455:ARG:N	2.28	0.49
2:QE:239:THR:OG1	2:QE:243:ARG:NH1	2.42	0.49
2:QE:419:SER:O	2:QE:422:ARG:HG2	2.12	0.49
3:QF:313:VAL:HB	3:QF:367:PHE:HE1	1.77	0.49
2:QG:3:GLU:N	2:QG:3:GLU:OE1	2.45	0.49
2:QI:35:GLN:HG2	2:QI:59:GLY:O	2.13	0.49
3:RF:186:THR:HA	3:RF:189:VAL:HG22	1.95	0.49
3:RF:260:PHE:HB3	3:RF:262:ARG:NH2	2.26	0.49
3:RF:330:MET:HA	3:RF:333:VAL:HG12	1.94	0.49
3:RH:46:ARG:HH12	2:RI:73:THR:HG23	1.78	0.49
3:RJ:12:CYS:SG	25:RJ:501:GTP:H5'	2.53	0.49
2:SE:395:PHE:HD2	2:SE:422:ARG:HH11	1.60	0.49
3:SF:198:GLU:HA	3:SF:266:PHE:CE2	2.45	0.49
3:SJ:328:GLU:OE1	3:SJ:332:ASN:ND2	2.45	0.49
3:TH:183:TYR:CG	3:TH:388:MET:HE3	2.47	0.49
3:TJ:47:ILE:HD11	3:TJ:51:TYR:CD2	2.47	0.49
3:TJ:86:ARG:H	3:TJ:89:ASN:HB2	1.76	0.49
3:UD:375:GLN:HE21	3:UD:422:TYR:HB3	1.77	0.49
3:UF:218:THR:O	3:UF:220:PRO:HD3	2.13	0.49
3:UH:189:VAL:HA	3:UH:192:LEU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:375:GLN:HA	3:VD:378:PHE:CZ	2.47	0.49
2:VE:3:GLU:OE2	2:VE:130:THR:N	2.42	0.49
2:VE:356:ASN:OD1	2:VE:358:GLN:N	2.36	0.49
2:VE:390:ARG:HA	2:VE:393:HIS:CD2	2.48	0.49
3:VF:11:GLN:HG3	25:VF:501:GTP:PA	2.51	0.49
3:VF:54:ALA:HB3	3:VF:58:LYS:HB2	1.94	0.49
3:VF:130:LEU:HD13	3:VF:133:PHE:CE1	2.48	0.49
3:VH:315:ALA:O	3:VH:351:THR:HA	2.12	0.49
3:WF:64:VAL:HG21	3:WF:120:VAL:HG12	1.94	0.49
3:WH:130:LEU:HB2	3:WH:162:ARG:NH1	2.27	0.49
2:WI:310:GLY:HA3	2:WI:383:ALA:HB2	1.94	0.49
22:XC:28:LYS:O	22:XC:57:THR:HA	2.11	0.49
22:XC:61:CYS:N	22:XC:154:VAL:O	2.34	0.49
23:XK:96:PHE:CZ	23:XK:111:ALA:HA	2.46	0.49
23:XL:93:LEU:HA	23:XL:96:PHE:CD2	2.48	0.49
24:YI:114:ARG:NH1	24:YI:115:ALA:O	2.44	0.49
24:YN:32:CYS:HB3	24:YN:52:TYR:CD1	2.48	0.49
24:YN:110:LEU:HG	24:YN:113:LEU:HD11	1.95	0.49
1:A3:234:ASN:HA	12:I3:41:TYR:CE1	2.47	0.49
2:AE:117:LEU:O	2:AE:121:ARG:HG2	2.13	0.49
2:AG:107:HIS:CD2	2:AG:152:LEU:HB2	2.48	0.49
3:AH:164:MET:SD	3:AH:196:THR:HA	2.53	0.49
4:B3:8:PRO:HD3	6:D4:326:LEU:HD21	1.94	0.49
4:B8:134:GLU:HA	4:B8:137:LEU:HD12	1.94	0.49
2:BE:368:LEU:H	2:BE:368:LEU:HD23	1.77	0.49
2:BG:207:GLU:HB2	2:BG:304:LYS:HZ3	1.78	0.49
3:BH:5:VAL:HG23	3:BH:130:LEU:HD21	1.95	0.49
3:BH:47:ILE:HG13	3:BH:51:TYR:HB2	1.93	0.49
2:BI:102:ASN:HD21	2:BI:411:GLU:HG2	1.77	0.49
2:BI:264:ARG:O	2:BI:266:HIS:ND1	2.45	0.49
2:BI:287:SER:N	2:BI:290:GLU:OE2	2.46	0.49
3:CF:19:LYS:NZ	3:CF:223:GLY:O	2.45	0.49
3:CF:209:ASP:O	3:CF:213:ARG:HG2	2.13	0.49
3:CF:360:GLY:HA2	9:G1:306:LYS:HD2	1.95	0.49
3:CH:323:MET:HE1	2:CI:224:TYR:N	2.28	0.49
3:CH:323:MET:HE1	2:CI:224:TYR:H	1.76	0.49
2:CI:372:GLN:HB3	2:CI:373:ARG:NH1	2.28	0.49
3:CJ:111:GLU:N	3:CJ:111:GLU:OE1	2.46	0.49
3:CJ:392:LYS:HB2	3:CJ:395:LEU:HD13	1.94	0.49
6:D3:232:THR:OG1	9:G2:51:ARG:HD2	2.12	0.49
6:D8:394:LYS:HE2	6:D9:81:SER:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:135:LEU:HD22	3:DF:151:LEU:HD11	1.94	0.49
7:E2:2:GLU:O	7:E2:6:ARG:NH2	2.44	0.49
3:ED:47:ILE:HG13	3:ED:51:TYR:HB2	1.94	0.49
3:ED:233:MET:O	3:ED:237:THR:HG23	2.12	0.49
2:EE:25:CYS:HB2	2:EE:30:ILE:HB	1.95	0.49
2:EE:268:PRO:HG3	2:EE:380:ASN:HD22	1.77	0.49
3:EF:15:GLN:NE2	3:EF:222:TYR:HE1	2.10	0.49
3:EF:246:LEU:HB3	3:EF:353:VAL:O	2.12	0.49
2:EG:103:TYR:HD1	2:EG:147:SER:HB2	1.76	0.49
8:F7:396:LEU:O	8:F7:400:THR:HG23	2.13	0.49
3:FD:49:VAL:HG11	3:FD:241:ARG:HB3	1.94	0.49
9:G2:212:TYR:O	9:G2:216:ARG:HG3	2.11	0.49
2:GG:251:ASP:HB3	2:GG:254:GLU:OE1	2.13	0.49
2:GG:313:MET:SD	2:GG:380:ASN:HB3	2.52	0.49
25:GH:502:GTP:HN1	2:GI:15:GLN:CG	2.23	0.49
2:GI:17:GLY:HA2	2:GI:20:CYS:SG	2.53	0.49
2:GI:326:LYS:HA	2:GI:329:ASN:ND2	2.28	0.49
2:HE:188:ILE:HG13	2:HE:421:ALA:HB1	1.94	0.49
3:HF:282:ARG:HH12	3:HF:284:LEU:HA	1.78	0.49
2:HG:266:HIS:O	2:HG:268:PRO:HD3	2.12	0.49
2:IE:276:ILE:HD11	2:IE:280:LYS:HG2	1.93	0.49
2:IE:408:TYR:O	2:IE:411:GLU:HG3	2.12	0.49
3:IF:139:LEU:HD11	3:IF:171:PRO:HD3	1.94	0.49
3:IF:278:SER:HA	3:IF:281:TYR:HB2	1.95	0.49
2:IG:102:ASN:ND2	2:IG:105:ARG:HB2	2.27	0.49
3:IH:282:ARG:HH22	3:IH:292:GLN:CD	2.16	0.49
2:II:28:HIS:HB2	2:II:30:ILE:HG12	1.95	0.49
3:JD:375:GLN:HA	3:JD:378:PHE:CE2	2.48	0.49
2:JE:239:THR:OG1	2:JE:243:ARG:NH1	2.36	0.49
2:JE:255:PHE:O	2:JE:259:LEU:HB2	2.13	0.49
2:JG:10:GLY:O	2:JG:14:VAL:HG13	2.12	0.49
14:K3:131:ARG:O	14:K3:135:LEU:HG	2.13	0.49
14:K3:237:TYR:CE2	14:K3:241:ARG:HB2	2.47	0.49
3:KD:221:THR:O	3:KD:224:ASP:N	2.46	0.49
15:L2:27:TYR:CE1	2:ME:429:GLU:HG3	2.47	0.49
15:L2:31:PHE:HA	15:L2:35:ILE:HG22	1.93	0.49
2:LE:358:GLN:NE2	2:LE:359:PRO:O	2.42	0.49
3:LF:11:GLN:HG3	25:LF:501:GTP:PA	2.52	0.49
2:LG:47:ASP:OD1	2:LG:48:SER:N	2.42	0.49
2:LG:372:GLN:OE1	2:LG:372:GLN:N	2.45	0.49
2:LI:209:ILE:HG21	2:LI:227:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:117:LEU:HA	3:MF:120:VAL:HG12	1.94	0.49
3:MF:147:MET:O	3:MF:151:LEU:HG	2.13	0.49
3:MF:214:THR:HG23	3:MF:215:LEU:HD22	1.94	0.49
2:MG:396:ASP:OD1	2:MG:397:LEU:N	2.45	0.49
2:MG:416:GLY:O	2:MG:420:GLU:HG2	2.11	0.49
3:MH:21:TRP:CZ2	3:MH:63:ALA:HB2	2.48	0.49
3:MH:388:MET:HA	3:MH:391:ARG:CZ	2.43	0.49
3:ND:138:SER:OG	3:ND:141:GLY:N	2.45	0.49
3:ND:234:SER:O	3:ND:238:THR:HG23	2.12	0.49
3:ND:285:THR:O	3:ND:288:GLU:HG3	2.13	0.49
3:ND:380:ARG:O	3:ND:384:GLN:HG2	2.13	0.49
3:NF:156:ARG:NH1	3:NF:195:ASN:O	2.45	0.49
2:NI:263:PRO:O	2:NI:264:ARG:HB2	2.12	0.49
3:OD:313:VAL:HB	3:OD:367:PHE:HE1	1.76	0.49
2:OE:174:ALA:HB3	2:OE:177:VAL:O	2.12	0.49
2:OE:201:ALA:H	2:OE:266:HIS:HD2	1.60	0.49
2:OE:396:ASP:HB3	2:OE:422:ARG:NH2	2.27	0.49
3:OF:379:LYS:O	3:OF:382:SER:OG	2.19	0.49
2:OG:408:TYR:HA	2:OG:411:GLU:HG3	1.94	0.49
2:OI:227:LEU:O	2:OI:230:LEU:HG	2.13	0.49
2:PG:9:VAL:HG22	2:PG:146:GLY:HA2	1.95	0.49
2:PG:232:GLY:HA2	2:PG:235:VAL:HG12	1.95	0.49
3:PH:275:SER:N	3:PH:278:SER:OG	2.42	0.49
20:Q2:1401:GLN:OE1	20:Q2:1406:LEU:HB2	2.12	0.49
20:Q2:1432:GLU:HG2	20:Q2:1496:TYR:CE1	2.46	0.49
2:QE:295:CYS:O	2:QE:301:GLN:NE2	2.46	0.49
3:QF:5:VAL:HG23	3:QF:130:LEU:HD21	1.94	0.49
3:QF:14:ASN:OD1	3:QF:65:LEU:HD11	2.12	0.49
2:QG:234:ILE:CD1	2:QG:272:TYR:HB2	2.42	0.49
2:QG:329:ASN:HA	2:QG:332:ILE:HG12	1.95	0.49
3:QH:80:PRO:O	3:QH:83:GLN:NE2	2.36	0.49
2:QI:406:HIS:CE1	2:QI:407:TRP:CE2	3.00	0.49
21:R2:120:TYR:HA	21:R2:123:MET:HG3	1.95	0.49
2:RG:269:LEU:O	2:RG:378:LEU:HA	2.12	0.49
3:RH:350:LYS:HE3	2:RI:181:VAL:HG22	1.93	0.49
2:RI:196:GLU:HG2	2:RI:197:HIS:ND1	2.27	0.49
2:RI:205:ASP:OD2	2:RI:304:LYS:NZ	2.44	0.49
3:RJ:263:LEU:HG	3:RJ:266:PHE:HE1	1.77	0.49
3:RJ:270:PHE:CG	3:RJ:271:ALA:N	2.79	0.49
2:SG:70:LEU:HB3	2:SG:97:GLU:O	2.11	0.49
2:SG:235:VAL:HA	2:SG:238:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:61:PRO:HG2	3:SH:84:ILE:HG23	1.95	0.49
3:SH:118:ASP:O	3:SH:121:ARG:HG2	2.12	0.49
3:SH:350:LYS:HE3	2:SI:180:ALA:HA	1.94	0.49
3:TF:306:ARG:NE	3:TF:306:ARG:O	2.45	0.49
2:TG:136:LEU:HG	2:TG:169:PHE:CE1	2.47	0.49
3:TH:171:PRO:HG3	3:TH:181:GLU:OE2	2.12	0.49
3:TH:277:GLY:O	3:TH:280:GLN:NE2	2.45	0.49
3:TJ:69:GLU:OE1	3:TJ:72:THR:HG23	2.12	0.49
3:UD:3:GLU:HG3	3:UD:62:ARG:NH1	2.27	0.49
2:UE:337:THR:O	2:UE:339:ARG:NH1	2.46	0.49
3:UF:137:HIS:O	3:UF:168:SER:HA	2.12	0.49
3:UF:226:ASN:HA	3:UF:229:VAL:HG12	1.95	0.49
3:UH:176:SER:O	3:UH:178:THR:N	2.45	0.49
2:VE:212:ILE:HD12	2:VE:215:ARG:HE	1.77	0.49
2:VG:121:ARG:HA	2:VG:124:LYS:HG3	1.93	0.49
2:WE:113:GLU:OE1	2:WE:113:GLU:N	2.39	0.49
2:WE:401:LYS:C	2:WE:402:ARG:HD3	2.31	0.49
3:WF:12:CYS:HA	3:WF:15:GLN:HE21	1.77	0.49
3:WF:145:SER:O	3:WF:149:THR:HG23	2.13	0.49
2:WI:206:ASN:HA	2:WI:209:ILE:HD12	1.92	0.49
22:XE:60:THR:HG23	22:XE:155:GLN:HB2	1.95	0.49
23:XK:145:ASN:O	23:XK:149:ILE:HG12	2.12	0.49
24:YN:128:ASP:HA	24:YN:131:ARG:HD3	1.94	0.49
2:AE:165:SER:OG	2:AE:252:LEU:HD13	2.11	0.49
3:AF:310:TYR:HD1	3:AF:371:SER:HB2	1.77	0.49
2:AG:116:ASP:N	2:AG:116:ASP:OD1	2.44	0.49
2:AG:145:THR:HG23	25:AG:501:GTP:PG	2.53	0.49
2:AG:398:MET:HA	2:AG:401:LYS:HE3	1.93	0.49
2:AI:224:TYR:HA	2:AI:227:LEU:HB2	1.93	0.49
2:BE:224:TYR:CE1	25:BE:501:GTP:C5	2.94	0.49
2:BE:332:ILE:O	2:BE:336:LYS:HG3	2.12	0.49
2:BG:401:LYS:C	2:BG:402:ARG:HD3	2.32	0.49
3:BH:2:ARG:HB2	3:BH:131:GLN:NE2	2.28	0.49
5:C3:275:ARG:HD3	5:C3:276:ASN:O	2.12	0.49
5:C4:428:ASP:O	5:C4:431:ILE:HG22	2.13	0.49
5:C7:163:GLU:OE2	5:C7:312:GLN:HB3	2.12	0.49
5:C8:365:LEU:HD22	5:C8:459:LEU:HD11	1.95	0.49
3:CF:274:THR:OG1	3:CF:282:ARG:NH1	2.46	0.49
3:CH:8:GLN:HG2	3:CH:65:LEU:HA	1.95	0.49
3:CH:226:ASN:HA	3:CH:229:VAL:HG12	1.95	0.49
2:CI:180:ALA:HB1	2:CI:182:VAL:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:66:VAL:HG23	3:CJ:91:VAL:HG13	1.95	0.49
6:D3:411:SER:HA	6:D3:414:LYS:HZ3	1.78	0.49
3:DD:77:ARG:HD2	3:DD:82:GLY:HA3	1.95	0.49
3:DD:375:GLN:NE2	3:DD:422:TYR:HB3	2.26	0.49
2:DE:102:ASN:CG	2:DE:105:ARG:H	2.15	0.49
3:DF:51:TYR:CD2	3:DF:59:TYR:HB3	2.47	0.49
3:ED:407:GLU:HA	3:ED:410:GLU:HG3	1.95	0.49
8:F2:393:GLN:NE2	8:F3:278:SER:O	2.46	0.49
8:F7:368:ILE:HG12	8:F7:444:LEU:HD13	1.95	0.49
2:FE:251:ASP:HB3	2:FE:254:GLU:OE1	2.13	0.49
3:FF:211:CYS:SG	3:FF:220:PRO:HG3	2.53	0.49
3:FH:379:LYS:O	3:FH:382:SER:OG	2.18	0.49
9:G1:315:ILE:H	9:G1:315:ILE:HD12	1.78	0.49
10:G5:627:PHE:CD2	10:G5:635:PHE:HZ	2.31	0.49
3:GD:2:ARG:NH1	2:GE:97:GLU:HG3	2.28	0.49
3:GF:323:MET:HE1	2:GG:224:TYR:HE1	1.76	0.49
2:GG:89:PRO:HB2	2:GG:90:GLU:OE1	2.12	0.49
11:H3:11:THR:H	11:H3:15:HIS:CE1	2.30	0.49
2:HE:234:ILE:O	2:HE:237:SER:OG	2.28	0.49
2:HG:172:TYR:CD1	2:HG:203:MET:HG3	2.46	0.49
2:IE:265:ILE:HD12	2:IE:432:TYR:HE1	1.77	0.49
2:IG:320:ARG:CZ	2:IG:360:PRO:HA	2.42	0.49
2:IG:329:ASN:HA	2:IG:332:ILE:HG12	1.93	0.49
2:II:12:ALA:HB1	25:II:501:GTP:N3	2.28	0.49
13:J3:175:ILE:HD11	13:J3:183:ALA:CB	2.42	0.49
3:JF:142:GLY:N	25:JF:501:GTP:O3B	2.44	0.49
3:JH:187:LEU:HD21	3:JH:408:PHE:HE1	1.78	0.49
14:K2:384:LYS:HG3	2:LE:339:ARG:NH1	2.28	0.49
14:K2:461:VAL:HA	14:K2:464:ARG:NE	2.27	0.49
2:KE:107:HIS:CD2	2:KE:152:LEU:HB2	2.47	0.49
2:KG:244:PHE:HB2	2:KG:356:ASN:ND2	2.24	0.49
3:KH:85:PHE:O	3:KH:86:ARG:NH2	2.46	0.49
2:KI:252:LEU:HA	2:KI:255:PHE:CD2	2.47	0.49
2:KI:270:ALA:O	2:KI:271:THR:OG1	2.23	0.49
15:L2:62:PHE:CZ	3:LD:191:GLN:HG3	2.46	0.49
15:L3:45:ALA:HB3	3:MH:336:LYS:HA	1.94	0.49
2:LG:172:TYR:HD1	2:LG:203:MET:HG2	1.76	0.49
2:LG:338:LYS:NZ	2:LG:340:THR:HG23	2.28	0.49
3:LH:36:TYR:CE2	3:LH:44:LEU:HD22	2.48	0.49
2:MG:252:LEU:HA	2:MG:255:PHE:HD2	1.76	0.49
3:ND:51:TYR:CD1	3:ND:61:PRO:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:322:SER:N	3:ND:325:GLU:OE2	2.43	0.49
2:NE:2:ARG:NH2	2:NE:242:LEU:HA	2.28	0.49
2:NE:9:VAL:HA	2:NE:68:VAL:HG23	1.93	0.49
2:NE:311:LYS:N	2:NE:382:THR:OG1	2.44	0.49
3:NF:6:HIS:O	3:NF:63:ALA:HA	2.13	0.49
2:NG:168:GLU:OE1	2:NG:198:SER:OG	2.30	0.49
2:NG:252:LEU:HA	2:NG:255:PHE:CD2	2.48	0.49
2:NG:392:ASP:OD1	2:NG:393:HIS:N	2.45	0.49
3:OD:374:ILE:HG22	3:OD:378:PHE:CD2	2.47	0.49
3:OH:390:ARG:O	3:OH:390:ARG:NE	2.45	0.49
2:OI:119:LEU:HA	2:OI:122:ILE:HG12	1.93	0.49
2:OI:246:GLY:HA3	2:OI:356:ASN:HA	1.94	0.49
19:P2:116:ALA:HB3	19:P2:129:LEU:HB3	1.95	0.49
19:P2:553:ILE:HG13	19:P2:560:PHE:HB3	1.94	0.49
19:P2:599:ASN:HB3	19:P2:620:SER:HB2	1.93	0.49
3:PF:295:ASP:HB2	3:PF:298:ASN:HB2	1.95	0.49
2:PG:102:ASN:ND2	2:PG:411:GLU:OE2	2.44	0.49
2:PG:172:TYR:N	2:PG:204:VAL:O	2.27	0.49
2:QE:2:ARG:NH2	2:QE:250:VAL:O	2.45	0.49
3:QF:172:SER:HB3	3:QF:175:VAL:O	2.13	0.49
25:QF:501:GTP:O3G	25:QF:501:GTP:O3'	2.20	0.49
2:QG:53:PHE:O	2:QG:64:ARG:NH1	2.46	0.49
2:QG:287:SER:O	2:QG:291:ILE:HG23	2.13	0.49
3:QH:282:ARG:NH2	3:QH:288:GLU:OE1	2.45	0.49
3:RH:345:ILE:HD12	3:RH:346:PRO:HD2	1.95	0.49
3:RJ:155:ILE:HA	3:RJ:158:GLU:HB2	1.93	0.49
2:SE:31:GLN:OE1	2:SE:37:PRO:HD3	2.12	0.49
2:SE:117:LEU:O	2:SE:121:ARG:HG2	2.13	0.49
2:SE:430:LYS:HA	2:SE:433:GLU:HG3	1.93	0.49
3:SF:3:GLU:HG2	3:SF:130:LEU:HD23	1.94	0.49
3:SF:151:LEU:HD22	3:SF:154:LYS:HZ1	1.78	0.49
3:SH:270:PHE:HD2	3:SH:273:LEU:HD21	1.77	0.49
3:SJ:396:HIS:O	3:SJ:399:THR:OG1	2.25	0.49
2:TG:263:PRO:O	2:TG:264:ARG:HB2	2.12	0.49
3:TH:163:ILE:HD11	3:TH:251:ARG:HB2	1.95	0.49
3:TH:265:PHE:HD2	3:TH:374:ILE:HD12	1.78	0.49
3:TH:324:LYS:O	3:TH:327:ASP:N	2.46	0.49
2:TI:116:ASP:N	2:TI:116:ASP:OD1	2.45	0.49
3:TJ:19:LYS:O	3:TJ:22:GLU:HG3	2.13	0.49
3:UF:140:GLY:HA3	3:UF:171:PRO:HG3	1.94	0.49
2:UG:5:ILE:HB	2:UG:135:PHE:CD1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UH:51:TYR:CD1	3:UH:61:PRO:HA	2.48	0.49
3:UH:234:SER:O	3:UH:238:THR:HG23	2.12	0.49
3:VD:166:THR:OG1	3:VD:198:GLU:O	2.26	0.49
2:VE:2:ARG:NH1	2:VE:241:SER:O	2.45	0.49
2:VE:352:LYS:HD3	3:VF:178:THR:HA	1.94	0.49
3:VF:3:GLU:OE2	3:VF:128:ASP:N	2.45	0.49
3:VF:26:ASP:OD1	3:VF:27:GLU:N	2.45	0.49
3:VF:245:GLN:HG2	3:VF:245:GLN:O	2.13	0.49
2:VG:49:PHE:HB2	2:VG:53:PHE:HB2	1.95	0.49
2:WE:10:GLY:O	2:WE:14:VAL:HG13	2.11	0.49
3:WF:141:GLY:HA3	25:WF:501:GTP:H5''	1.95	0.49
3:WF:184:ASN:HA	3:WF:187:LEU:HD12	1.95	0.49
3:WF:255:VAL:HA	2:WG:407:TRP:CE2	2.48	0.49
3:WH:296:ALA:HA	3:WH:299:MET:HE2	1.93	0.49
3:WH:378:PHE:HA	3:WH:381:ILE:HG12	1.94	0.49
3:WH:423:GLN:HG3	3:WH:426:GLN:HE21	1.77	0.49
2:WI:232:GLY:HA2	2:WI:235:VAL:HG12	1.95	0.49
22:XC:26:ASP:O	22:XC:59:ILE:HD12	2.13	0.49
22:XC:79:ILE:HG13	22:XC:131:GLN:NE2	2.26	0.49
23:XK:178:LEU:HA	23:XK:181:LEU:HD12	1.94	0.49
23:XL:129:VAL:O	23:XL:133:LEU:HG	2.12	0.49
1:A2:258:GLU:HA	1:A2:261:ASP:OD2	2.13	0.49
3:AH:134:GLN:N	3:AH:134:GLN:OE1	2.46	0.49
3:AH:345:ILE:HD12	2:AI:398:MET:HE3	1.93	0.49
2:AI:326:LYS:HA	2:AI:329:ASN:HD21	1.76	0.49
2:BE:246:GLY:HA2	2:BE:357:TYR:CD2	2.48	0.49
3:BF:31:ASP:OD1	3:BF:35:THR:N	2.46	0.49
3:BF:282:ARG:NH2	3:BF:292:GLN:OE1	2.46	0.49
2:BG:7:ILE:HD13	2:BG:66:VAL:HB	1.95	0.49
2:BI:3:GLU:N	2:BI:3:GLU:OE1	2.46	0.49
5:C3:403:ARG:HG2	5:C3:406:ARG:NE	2.27	0.49
2:CG:19:ALA:HA	2:CG:22:GLU:OE1	2.11	0.49
2:CG:262:TYR:HE1	3:CH:393:ALA:HA	1.77	0.49
3:CH:85:PHE:O	3:CH:86:ARG:NH2	2.46	0.49
6:D3:23:PRO:O	6:D3:26:GLU:HG3	2.13	0.49
6:D4:400:GLN:OE1	6:D4:403:ARG:NH2	2.46	0.49
2:DE:185:TYR:HA	2:DE:395:PHE:HE2	1.78	0.49
2:DE:244:PHE:CZ	2:DE:358:GLN:HG2	2.47	0.49
3:DH:385:PHE:HZ	3:DH:408:PHE:HB3	1.77	0.49
3:ED:270:PHE:CE1	3:ED:366:THR:HG23	2.48	0.49
2:EE:2:ARG:HA	2:EE:133:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:326:LYS:HA	2:EE:329:ASN:HD21	1.78	0.49
3:EF:5:VAL:HG23	3:EF:130:LEU:HD21	1.94	0.49
3:EF:101:TRP:HB2	3:EF:184:ASN:HD22	1.76	0.49
2:EG:401:LYS:C	2:EG:402:ARG:HD3	2.33	0.49
3:EH:405:GLU:O	3:EH:409:THR:HG23	2.13	0.49
2:FE:102:ASN:CG	2:FE:105:ARG:H	2.16	0.49
2:FG:3:GLU:CD	2:FG:132:LEU:H	2.16	0.49
3:FH:310:TYR:HA	3:FH:371:SER:HA	1.95	0.49
9:G1:412:MET:SD	9:G1:413:LEU:HG	2.53	0.49
10:G5:509:ILE:HB	10:G5:597:GLN:HB3	1.94	0.49
3:GD:261:PRO:HD3	2:GE:406:HIS:CD2	2.48	0.49
3:GD:405:GLU:O	3:GD:409:THR:HG23	2.12	0.49
2:GE:175:PRO:HG2	2:GE:304:LYS:HD3	1.95	0.49
3:GF:111:GLU:HG2	3:GF:112:LEU:HD12	1.94	0.49
3:GF:228:LEU:O	3:GF:232:THR:HG23	2.13	0.49
2:GG:196:GLU:OE1	2:GG:196:GLU:N	2.36	0.49
3:GH:270:PHE:CG	3:GH:271:ALA:N	2.80	0.49
2:GI:15:GLN:O	2:GI:18:ASN:N	2.45	0.49
11:H4:30:GLN:HE21	11:H4:38:THR:HG22	1.77	0.49
11:H4:256:HIS:CB	11:H4:257:PRO:CD	2.89	0.49
3:HD:19:LYS:NZ	3:HD:227:HIS:HB2	2.28	0.49
2:HE:6:SER:O	2:HE:65:ALA:HA	2.12	0.49
3:HF:180:VAL:HG22	3:HF:183:TYR:HB2	1.94	0.49
2:HI:33:ASP:OD1	2:HI:34:GLY:N	2.46	0.49
2:HI:280:LYS:NZ	2:HI:284:GLU:OE2	2.45	0.49
2:HI:401:LYS:O	2:HI:402:ARG:HD3	2.12	0.49
2:IE:5:ILE:HD13	2:IE:64:ARG:HB3	1.95	0.49
3:IF:61:PRO:HG2	3:IF:85:PHE:HE1	1.78	0.49
2:IG:213:CYS:SG	2:IG:214:ARG:N	2.85	0.49
3:IH:152:ILE:HA	3:IH:155:ILE:HG12	1.95	0.49
3:IH:328:GLU:OE1	3:IH:332:ASN:ND2	2.44	0.49
2:II:36:MET:HB2	2:II:41:THR:OG1	2.13	0.49
2:JG:262:TYR:CE1	3:JH:393:ALA:HA	2.47	0.49
14:K2:179:VAL:HG23	14:K2:180:LYS:HD3	1.95	0.49
14:K2:340:MET:O	14:K2:343:THR:OG1	2.28	0.49
14:K2:421:LEU:HA	14:K2:424:ARG:HE	1.78	0.49
14:K4:46:MET:N	14:K4:108:ARG:HE	2.03	0.49
2:KE:155:GLU:O	2:KE:158:SER:OG	2.26	0.49
3:KF:81:PHE:O	3:KF:84:ILE:HG22	2.13	0.49
3:KH:2:ARG:CZ	3:KH:129:CYS:HB2	2.43	0.49
15:L2:177:GLN:O	15:L2:181:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:304:ASP:O	3:LD:307:HIS:ND1	2.45	0.49
2:LE:89:PRO:HD2	2:ME:280:LYS:NZ	2.25	0.49
2:LE:329:ASN:ND2	3:LF:208:TYR:HE2	2.11	0.49
2:LE:345:ASP:N	2:LE:345:ASP:OD1	2.43	0.49
2:LG:254:GLU:O	2:LG:258:ASN:ND2	2.28	0.49
2:LI:5:ILE:HB	2:LI:135:PHE:CD1	2.48	0.49
2:LI:172:TYR:CD1	2:LI:173:PRO:HD2	2.47	0.49
2:LI:208:ALA:H	2:LI:304:LYS:NZ	2.11	0.49
2:ME:142:GLY:HA2	2:ME:186:ASN:OD1	2.12	0.49
3:MH:114:ASP:N	3:MH:114:ASP:OD1	2.46	0.49
2:MI:12:ALA:HB2	25:MI:501:GTP:H5''	1.95	0.49
2:MI:232:GLY:O	2:MI:235:VAL:HG12	2.12	0.49
2:NE:311:LYS:HE3	2:NE:344:VAL:HG12	1.93	0.49
2:NE:438:ASP:O	3:NF:391:ARG:NH2	2.40	0.49
3:NF:232:THR:HG22	3:NF:270:PHE:CD1	2.48	0.49
3:NF:324:LYS:HE3	2:NG:210:TYR:CE1	2.47	0.49
2:NG:392:ASP:HB3	2:NG:425:LEU:HD23	1.94	0.49
3:NH:166:THR:OG1	3:NH:198:GLU:O	2.26	0.49
2:NI:311:LYS:N	2:NI:381:THR:OG1	2.46	0.49
2:OE:280:LYS:O	2:OE:284:GLU:HB2	2.12	0.49
2:OI:395:PHE:HB3	2:OI:422:ARG:NH1	2.28	0.49
19:P1:431:ARG:HG2	19:P1:445:GLN:HE22	1.78	0.49
19:P1:548:ILE:HG21	19:P1:562:THR:HB	1.94	0.49
19:P2:360:HIS:HB2	19:P2:367:LEU:HD21	1.94	0.49
2:PE:200:CYS:HB3	2:PE:202:PHE:CZ	2.48	0.49
2:PE:427:ALA:HA	2:PE:430:LYS:HG2	1.95	0.49
2:PG:22:GLU:O	2:PG:26:LEU:HD23	2.12	0.49
2:PG:430:LYS:HA	2:PG:433:GLU:CD	2.31	0.49
2:PI:3:GLU:N	2:PI:133:GLN:OE1	2.45	0.49
20:Q2:1457:SER:O	20:Q2:1460:THR:OG1	2.28	0.49
2:QE:272:TYR:HE1	2:QE:374:ALA:HB1	1.77	0.49
3:QF:86:ARG:NE	3:QF:86:ARG:HA	2.27	0.49
3:QF:269:GLY:N	3:QF:367:PHE:O	2.44	0.49
2:QG:52:PHE:O	2:QG:64:ARG:N	2.43	0.49
2:RE:16:ILE:HG22	2:RE:228:ASN:OD1	2.13	0.49
3:RF:113:VAL:HA	3:RF:116:VAL:HG22	1.94	0.49
2:RG:160:ASP:OD1	2:RG:161:TYR:N	2.46	0.49
3:RH:245:GLN:HG2	3:RH:245:GLN:O	2.13	0.49
2:RI:5:ILE:O	2:RI:135:PHE:HA	2.12	0.49
2:RI:288:VAL:HA	2:RI:291:ILE:HG12	1.94	0.49
3:RJ:101:TRP:CD2	3:RJ:187:LEU:HD13	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:163:ILE:HD11	3:RJ:251:ARG:HB2	1.93	0.49
2:SE:209:ILE:HG21	2:SE:227:LEU:HG	1.95	0.49
2:SI:67:PHE:HB2	2:SI:92:LEU:HD13	1.95	0.49
2:SI:68:VAL:HG12	2:SI:93:ILE:HB	1.95	0.49
2:SI:152:LEU:O	2:SI:155:GLU:HG3	2.12	0.49
3:SJ:17:GLY:O	3:SJ:21:TRP:HD1	1.96	0.49
3:SJ:21:TRP:CZ3	3:SJ:51:TYR:HE1	2.30	0.49
3:SJ:114:ASP:OD1	3:SJ:114:ASP:N	2.45	0.49
3:SJ:165:ASN:HD21	3:SJ:200:TYR:HE2	1.60	0.49
3:TF:117:LEU:HA	3:TF:120:VAL:HG22	1.93	0.49
2:TI:228:ASN:HA	2:TI:231:ILE:HG22	1.94	0.49
3:TJ:50:TYR:HE2	3:TJ:241:ARG:NH2	2.09	0.49
3:TJ:109:GLY:O	3:TJ:113:VAL:HG13	2.13	0.49
3:UD:188:SER:O	3:UD:192:LEU:HG	2.13	0.49
2:UE:139:HIS:CE1	2:UE:168:GLU:HB3	2.45	0.49
2:UE:263:PRO:O	2:UE:265:ILE:HG22	2.13	0.49
3:UF:31:ASP:OD1	3:UF:35:THR:N	2.46	0.49
2:UG:161:TYR:HB3	2:UG:164:LYS:NZ	2.27	0.49
3:UH:380:ARG:HB3	3:UH:380:ARG:CZ	2.43	0.49
2:VE:255:PHE:O	2:VE:259:LEU:HB2	2.12	0.49
2:VG:438:ASP:OD1	2:VG:438:ASP:N	2.41	0.49
3:WF:126:SER:O	22:XD:19:SER:HB3	2.13	0.49
2:WG:329:ASN:HA	2:WG:332:ILE:HG12	1.95	0.49
23:XJ:88:ASP:HB3	23:XJ:92:TYR:HD2	1.77	0.49
23:XK:203:GLU:OE1	23:XK:203:GLU:N	2.44	0.49
24:YJ:4:VAL:HG11	24:YJ:83:PHE:CE1	2.47	0.49
24:YK:8:LEU:O	24:YK:11:ILE:HG22	2.13	0.49
24:YL:130:ALA:HA	24:YL:134:TYR:HB2	1.94	0.49
24:YN:119:HIS:O	24:YN:122:VAL:HG22	2.13	0.49
2:AE:75:VAL:HG11	2:AE:94:THR:HB	1.95	0.49
2:AE:392:ASP:OD1	2:AE:393:HIS:N	2.46	0.49
2:AE:404:PHE:HA	2:AE:406:HIS:CE1	2.48	0.49
2:AE:408:TYR:O	2:AE:411:GLU:HG3	2.11	0.49
3:AF:157:GLU:HG2	3:AF:158:GLU:N	2.27	0.49
3:AF:309:ARG:H	3:AF:372:THR:HG1	1.55	0.49
3:AF:324:LYS:CE	2:AG:221:ARG:HA	2.32	0.49
3:AF:374:ILE:HG22	3:AF:378:PHE:CD2	2.48	0.49
2:AI:189:LEU:O	2:AI:192:HIS:ND1	2.45	0.49
3:BF:20:PHE:CZ	3:BF:24:ILE:HD11	2.47	0.49
2:BG:25:CYS:HB2	2:BG:30:ILE:HB	1.94	0.49
2:BG:119:LEU:HB3	2:BG:123:ARG:HH22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:329:ASN:HA	2:BG:332:ILE:HG12	1.94	0.49
2:BG:362:VAL:HA	2:BG:368:LEU:HD11	1.94	0.49
2:CG:125:LEU:O	2:CG:128:LEU:HG	2.13	0.49
3:CH:249:ASP:HB3	3:CH:252:LYS:HB2	1.95	0.49
2:CI:329:ASN:HD21	3:CJ:208:TYR:HE2	1.59	0.49
6:D2:71:ARG:NH1	6:D3:324:LYS:HG3	2.27	0.49
6:D3:175:GLU:O	6:D3:179:GLU:HG2	2.13	0.49
3:DD:246:LEU:HD13	3:DD:354:CYS:HB2	1.94	0.49
3:DD:325:GLU:HB3	2:DE:221:ARG:NH1	2.28	0.49
2:DE:415:GLU:OE2	2:DE:419:SER:OG	2.25	0.49
2:DG:256:GLN:NE2	2:DG:257:THR:HG23	2.27	0.49
3:EF:21:TRP:CZ2	3:EF:63:ALA:HB2	2.47	0.49
3:EF:344:TRP:O	2:EG:398:MET:HE1	2.13	0.49
3:EF:345:ILE:HD12	3:EF:346:PRO:HD2	1.95	0.49
8:F2:233:ALA:O	8:F2:236:ILE:HG12	2.12	0.49
8:F3:226:GLN:O	8:F3:229:MET:HG3	2.12	0.49
8:F3:327:THR:O	8:F3:331:GLN:HG2	2.13	0.49
3:FD:255:VAL:HA	2:FE:407:TRP:CE2	2.47	0.49
3:FF:58:LYS:NZ	3:GF:280:GLN:O	2.39	0.49
2:FG:196:GLU:HG2	2:FG:197:HIS:ND1	2.28	0.49
2:FG:287:SER:OG	2:FG:290:GLU:OE1	2.26	0.49
3:FH:415:MET:O	3:FH:418:LEU:HB3	2.13	0.49
10:G5:311:SER:HB2	10:G5:313:TRP:HZ3	1.77	0.49
10:G5:350:LYS:HZ1	11:H4:258:VAL:C	2.16	0.49
10:G5:447:ASP:OD2	10:G5:450:ARG:NH1	2.46	0.49
10:G5:577:VAL:HG12	10:G5:733:VAL:O	2.12	0.49
11:H4:13:GLU:HB2	11:H4:14:PRO:CD	2.43	0.49
11:H4:212:LEU:CD1	11:H4:214:GLN:HE22	1.97	0.49
3:HD:4:ILE:HD11	3:HD:131:GLN:HB2	1.95	0.49
3:HF:206:ALA:O	3:HF:210:ILE:HG12	2.12	0.49
3:HH:2:ARG:NH2	2:HI:97:GLU:HA	2.28	0.49
2:HI:15:GLN:HA	2:HI:18:ASN:ND2	2.27	0.49
12:I3:64:LEU:HG	12:I3:67:GLY:H	1.77	0.49
2:II:180:ALA:HB3	2:II:183:GLU:HB2	1.94	0.49
3:JD:324:LYS:HD3	2:JE:210:TYR:CD1	2.48	0.49
2:JE:102:ASN:HD21	2:JE:411:GLU:HG2	1.76	0.49
2:JG:234:ILE:HD11	2:JG:272:TYR:HB2	1.94	0.49
14:K4:133:ALA:HA	14:K4:288:THR:HG21	1.94	0.49
3:KD:100:ASN:OD1	3:KD:103:LYS:N	2.36	0.49
2:KG:175:PRO:HD2	2:KG:207:GLU:OE1	2.12	0.49
2:KG:246:GLY:HA2	2:KG:357:TYR:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:1:MET:SD	3:KH:2:ARG:N	2.85	0.49
2:KI:102:ASN:ND2	2:KI:411:GLU:HG2	2.25	0.49
2:LE:255:PHE:HA	2:LE:259:LEU:HD23	1.95	0.49
2:LE:266:HIS:C	2:LE:268:PRO:HD3	2.33	0.49
3:LF:266:PHE:CE2	3:LF:370:ASN:HB2	2.47	0.49
2:LG:33:ASP:OD1	2:LG:35:GLN:N	2.40	0.49
3:LH:152:ILE:HA	3:LH:155:ILE:HG12	1.94	0.49
2:ME:121:ARG:HA	2:ME:124:LYS:HG3	1.94	0.49
2:ME:330:ALA:O	2:ME:334:THR:HG23	2.12	0.49
3:MH:134:GLN:N	3:MH:134:GLN:OE1	2.46	0.49
2:MI:171:ILE:HD11	2:MI:206:ASN:H	1.76	0.49
3:ND:114:ASP:OD1	3:ND:115:SER:N	2.46	0.49
2:NE:213:CYS:O	2:NE:218:ASP:N	2.45	0.49
3:NF:50:TYR:O	3:NF:62:ARG:NE	2.44	0.49
3:NF:183:TYR:O	3:NF:186:THR:OG1	2.29	0.49
3:NF:228:LEU:O	3:NF:232:THR:HG23	2.12	0.49
3:NH:30:ILE:HG13	3:NH:36:TYR:HD2	1.77	0.49
2:NI:260:VAL:HG23	2:NI:265:ILE:O	2.12	0.49
2:NI:276:ILE:HG23	2:NI:281:ALA:HB2	1.95	0.49
18:O2:25:ALA:O	18:O2:26:ARG:HD3	2.12	0.49
3:OD:31:ASP:OD2	3:OD:35:THR:OG1	2.26	0.49
3:OF:246:LEU:HB2	3:OF:352:ALA:HB1	1.95	0.49
2:OG:189:LEU:HD23	2:OG:192:HIS:HE1	1.78	0.49
3:OH:150:LEU:O	3:OH:153:SER:OG	2.25	0.49
19:P1:342:PHE:CD1	19:P1:384:ARG:HG2	2.47	0.49
19:P1:396:GLY:HA2	19:P1:420:VAL:HG23	1.95	0.49
19:P1:442:ARG:HB2	19:P1:444:TRP:CH2	2.48	0.49
2:PE:188:ILE:HG21	2:PE:395:PHE:CE1	2.48	0.49
2:PG:89:PRO:HD2	2:QG:280:LYS:HZ3	1.78	0.49
2:PG:139:HIS:CE1	2:PG:168:GLU:HB3	2.47	0.49
2:PG:206:ASN:HA	2:PG:209:ILE:HB	1.94	0.49
2:PG:263:PRO:O	2:PG:264:ARG:HB2	2.11	0.49
3:PH:2:ARG:NH1	3:PH:129:CYS:HB3	2.28	0.49
3:PH:114:ASP:OD1	3:PH:114:ASP:N	2.44	0.49
3:PH:376:GLU:HA	3:PH:379:LYS:HE2	1.95	0.49
2:PI:135:PHE:O	2:PI:167:LEU:HB2	2.11	0.49
20:Q1:1397:CYS:SG	20:Q1:1434:PRO:HG2	2.53	0.49
20:Q1:1428:GLU:HA	20:Q1:1496:TYR:O	2.13	0.49
20:Q1:1437:TYR:CE1	20:Q1:1496:TYR:HB2	2.48	0.49
2:QE:83:TYR:HD1	2:QE:86:LEU:HD12	1.78	0.49
2:QE:89:PRO:HD2	2:RE:280:LYS:NZ	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:341:ILE:HD11	2:QE:343:PHE:HE1	1.77	0.49
3:QF:114:ASP:N	3:QF:114:ASP:OD1	2.43	0.49
3:QF:182:PRO:HB2	3:QF:388:MET:CE	2.43	0.49
3:RF:262:ARG:NH2	3:RF:425:TYR:OH	2.45	0.49
2:RI:115:VAL:HA	2:RI:118:VAL:HG22	1.95	0.49
2:RI:330:ALA:O	2:RI:334:THR:HG23	2.12	0.49
2:RI:431:ASP:HA	2:RI:434:GLU:HG2	1.94	0.49
3:RJ:138:SER:OG	3:RJ:141:GLY:N	2.46	0.49
3:SF:30:ILE:HG13	3:SF:36:TYR:CD1	2.47	0.49
3:SF:83:GLN:OE1	3:SF:83:GLN:N	2.32	0.49
2:SG:140:SER:HB3	25:SG:501:GTP:HN22	1.78	0.49
2:SG:397:LEU:O	2:SG:401:LYS:NZ	2.45	0.49
2:SI:174:ALA:HB3	2:SI:177:VAL:O	2.13	0.49
2:SI:395:PHE:HA	2:SI:398:MET:HG3	1.95	0.49
2:TG:109:THR:O	2:TG:112:LYS:NZ	2.46	0.49
3:TJ:374:ILE:HD12	3:TJ:374:ILE:H	1.76	0.49
3:UF:2:ARG:HA	3:UF:129:CYS:O	2.12	0.49
2:VE:3:GLU:OE2	2:VE:131:GLY:N	2.44	0.49
2:VG:224:TYR:HA	2:VG:227:LEU:HB2	1.94	0.49
2:VG:349:THR:HG23	3:VH:179:VAL:HG12	1.93	0.49
2:WE:1:MET:O	2:WE:133:GLN:NE2	2.45	0.49
3:WF:4:ILE:HB	3:WF:50:TYR:CE1	2.42	0.49
3:WF:316:VAL:HG22	3:WF:352:ALA:HB3	1.93	0.49
2:WG:33:ASP:OD1	2:WG:34:GLY:N	2.45	0.49
2:WI:102:ASN:HD22	2:WI:105:ARG:HG3	1.77	0.49
2:WI:119:LEU:HA	2:WI:122:ILE:HD12	1.94	0.49
22:XD:25:TRP:HE3	22:XD:59:ILE:HG13	1.77	0.49
23:XL:130:ILE:O	23:XL:134:ILE:HG12	2.12	0.49
24:YM:6:GLU:HG3	24:YM:9:ARG:HH12	1.77	0.49
24:YN:11:ILE:HA	24:YN:14:LYS:HE2	1.94	0.49
1:A2:272:LYS:HB2	1:A2:275:ARG:HH12	1.77	0.49
1:A2:337:LEU:HD21	1:A3:59:VAL:HG13	1.94	0.49
1:A3:234:ASN:HA	12:I3:41:TYR:CZ	2.47	0.49
2:AE:1:MET:CG	2:AE:2:ARG:H	2.26	0.49
2:AE:10:GLY:O	2:AE:14:VAL:HG13	2.13	0.49
3:AH:44:LEU:HA	3:AH:47:ILE:HG23	1.95	0.49
3:AH:166:THR:HG22	3:AH:198:GLU:O	2.12	0.49
3:AH:346:PRO:HD2	2:AI:398:MET:HE1	1.94	0.49
2:AI:125:LEU:HD13	2:AI:128:LEU:HD21	1.95	0.49
2:AI:137:ILE:HB	2:AI:168:GLU:HA	1.95	0.49
2:AI:183:GLU:OE1	2:AI:186:ASN:ND2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:280:LYS:NZ	2:MI:89:PRO:HD2	2.28	0.49
2:BG:189:LEU:HD11	2:BG:418:PHE:HE1	1.78	0.49
5:C4:371:GLU:HA	5:C4:374:GLN:HE21	1.77	0.49
2:CG:205:ASP:OD1	2:CG:304:LYS:NZ	2.45	0.49
6:D8:363:ARG:HE	6:D8:368:LEU:HA	1.78	0.49
6:D8:367:GLU:OE1	6:D9:218:LYS:NZ	2.43	0.49
3:DD:152:ILE:HG13	3:DD:153:SER:N	2.27	0.49
2:DE:119:LEU:HB3	2:DE:123:ARG:NH2	2.27	0.49
2:DG:208:ALA:HB2	2:DG:304:LYS:HE3	1.93	0.49
7:E2:43:ILE:HG13	7:E2:44:LYS:H	1.76	0.49
8:F7:399:ARG:CZ	8:F7:402:ARG:HH12	2.26	0.49
3:FD:8:GLN:HB3	3:FD:65:LEU:HD23	1.94	0.49
3:FD:406:MET:O	3:FD:409:THR:OG1	2.22	0.49
2:FE:214:ARG:NH1	2:FE:215:ARG:HG3	2.27	0.49
2:FE:338:LYS:NZ	2:FE:340:THR:HG23	2.28	0.49
3:FH:197:ASP:OD1	3:FH:198:GLU:N	2.46	0.49
3:FH:219:THR:OG1	9:G2:458:ASN:ND2	2.46	0.49
10:G5:386:ILE:HG22	10:G5:387:GLU:H	1.77	0.49
10:G5:538:ASP:OD1	10:G5:539:LYS:N	2.45	0.49
10:G5:553:LYS:O	10:G5:556:LYS:HE3	2.12	0.49
3:GH:267:MET:HB2	3:GH:301:ALA:CB	2.43	0.49
3:GH:293:MET:HA	3:GH:298:ASN:HD22	1.78	0.49
3:HD:31:ASP:OD2	3:HD:35:THR:OG1	2.23	0.49
2:HE:278:ALA:HA	2:HE:369:ALA:HB2	1.94	0.49
3:HF:131:GLN:HG2	3:HF:250:LEU:HD13	1.94	0.49
3:HF:288:GLU:OE1	3:HF:288:GLU:N	2.44	0.49
3:HH:31:ASP:HB3	3:HH:37:HIS:NE2	2.28	0.49
3:HH:415:MET:O	3:HH:419:VAL:HG23	2.12	0.49
3:IF:6:HIS:CE1	3:IF:21:TRP:HE1	2.31	0.49
13:J2:144:PRO:HD2	13:J2:179:TYR:HE2	1.78	0.49
13:J3:134:TRP:O	13:J3:137:THR:OG1	2.27	0.49
13:J3:149:TRP:HA	13:J3:152:LEU:HD12	1.94	0.49
2:JE:211:ASP:HB2	2:JE:215:ARG:HH21	1.78	0.49
2:JG:125:LEU:O	2:JG:128:LEU:HG	2.12	0.49
14:K3:237:TYR:CE2	14:K3:293:CYS:HB3	2.48	0.49
14:K3:394:ASN:HB3	14:K3:399:ARG:NH2	2.27	0.49
2:KE:325:PRO:HA	2:KE:328:VAL:HB	1.94	0.49
3:KH:36:TYR:CE2	3:KH:38:GLY:HA2	2.48	0.49
2:KI:70:LEU:HB3	2:KI:97:GLU:O	2.13	0.49
15:L2:151:TYR:CE1	2:MG:389:ALA:HB1	2.48	0.49
15:L3:226:ARG:HA	15:L3:229:LYS:HE2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:34:GLY:O	2:LE:61:HIS:ND1	2.45	0.49
2:LE:90:GLU:HG2	2:LE:121:ARG:NH2	2.27	0.49
2:LE:274:PRO:HG3	2:LE:374:ALA:HA	1.95	0.49
2:LE:392:ASP:OD1	2:LE:393:HIS:N	2.45	0.49
3:LF:83:GLN:OE1	3:LF:83:GLN:N	2.34	0.49
2:LG:326:LYS:NZ	3:LH:208:TYR:O	2.46	0.49
3:LH:330:MET:SD	3:LH:331:LEU:HD22	2.52	0.49
3:MF:100:ASN:HB3	3:MF:103:LYS:HB2	1.95	0.49
3:MH:257:MET:O	3:MH:259:PRO:HD3	2.13	0.49
3:MH:355:ASP:OD1	3:MH:356:ILE:HG12	2.13	0.49
2:NG:1:MET:O	2:NG:131:GLY:HA3	2.12	0.49
2:NG:206:ASN:HA	2:NG:209:ILE:HD12	1.95	0.49
2:NI:152:LEU:HG	2:NI:156:ARG:NH2	2.28	0.49
18:O2:25:ALA:C	18:O2:26:ARG:HD3	2.33	0.49
3:OD:131:GLN:HA	3:OD:251:ARG:HH12	1.77	0.49
2:OE:396:ASP:OD1	2:OE:397:LEU:N	2.46	0.49
3:OF:51:TYR:CD1	3:OF:61:PRO:HA	2.48	0.49
2:OG:113:GLU:N	2:OG:113:GLU:OE1	2.46	0.49
3:OH:261:PRO:O	3:OH:264:HIS:NE2	2.46	0.49
2:OI:28:HIS:HB2	2:OI:30:ILE:HD11	1.94	0.49
2:OI:79:ARG:O	2:OI:84:ARG:HG3	2.13	0.49
19:P1:400:ALA:C	19:P1:409:MET:HB2	2.33	0.49
2:PE:346:TRP:HB3	3:PF:391:ARG:NH2	2.28	0.49
3:PH:389:PHE:HZ	3:PH:405:GLU:HB2	1.78	0.49
2:PI:5:ILE:O	2:PI:135:PHE:HA	2.12	0.49
20:Q1:1383:ILE:HG13	20:Q1:1384:VAL:HG13	1.94	0.49
20:Q1:1401:GLN:HB2	20:Q1:1405:LEU:HB2	1.95	0.49
20:Q2:1459:LYS:HA	20:Q2:1463:LYS:HB2	1.95	0.49
3:QF:6:HIS:CE1	3:QF:8:GLN:HB2	2.47	0.49
3:QF:407:GLU:HA	3:QF:410:GLU:HG3	1.95	0.49
2:RE:117:LEU:O	2:RE:121:ARG:HG2	2.12	0.49
2:RG:69:ASP:OD1	2:RG:70:LEU:N	2.45	0.49
2:RG:280:LYS:HZ2	2:RG:283:HIS:CE1	2.30	0.49
3:RH:5:VAL:HB	3:RH:133:PHE:CD1	2.48	0.49
2:RI:76:ASP:OD1	2:RI:79:ARG:NH2	2.46	0.49
2:RI:152:LEU:HB2	2:RI:156:ARG:NH1	2.27	0.49
2:SE:81:GLY:O	2:SE:84:ARG:NH1	2.46	0.49
2:SE:257:THR:HA	3:SF:397:TRP:CZ2	2.48	0.49
3:SF:318:ARG:HB3	3:SF:364:SER:OG	2.13	0.49
3:SH:309:ARG:HD3	3:SH:310:TYR:H	1.78	0.49
2:TG:10:GLY:O	2:TG:14:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TG:82:THR:HA	2:TG:84:ARG:NH1	2.28	0.49
3:TJ:4:ILE:HD11	3:TJ:131:GLN:HB2	1.95	0.49
3:TJ:40:SER:HB2	3:TJ:43:GLN:CD	2.34	0.49
2:UE:1:MET:N	2:UE:130:THR:OG1	2.45	0.49
2:UE:352:LYS:HA	3:UF:177:ASP:OD1	2.12	0.49
3:UF:405:GLU:O	3:UF:409:THR:HG23	2.13	0.49
2:UG:84:ARG:HA	2:UG:87:PHE:HB2	1.94	0.49
2:UG:208:ALA:H	2:UG:304:LYS:HZ1	1.61	0.49
2:UG:220:GLU:O	2:UG:221:ARG:NE	2.46	0.49
3:VD:5:VAL:O	3:VD:133:PHE:HA	2.13	0.49
3:VD:268:PRO:HD2	3:VD:301:ALA:HB2	1.94	0.49
2:VE:297:GLU:OE1	2:VE:300:ASN:N	2.46	0.49
3:VH:269:GLY:N	3:VH:367:PHE:O	2.45	0.49
2:WE:320:ARG:HG2	2:WE:358:GLN:O	2.13	0.49
3:WH:41:ASP:N	3:WH:41:ASP:OD1	2.45	0.49
22:XE:39:ASP:HB3	22:XE:44:SER:H	1.75	0.49
23:XK:59:CYS:HA	23:XK:62:ARG:NH2	2.28	0.49
24:YI:60:SER:OG	24:YI:61:THR:N	2.45	0.49
24:YI:75:GLU:O	24:YI:79:LEU:HG	2.13	0.49
24:YM:88:SER:OG	24:YM:165:HIS:HB3	2.13	0.49
2:AG:71:GLU:CD	2:AG:73:THR:H	2.16	0.49
3:AH:31:ASP:OD2	3:AH:33:THR:OG1	2.30	0.49
3:AH:67:ASP:OD2	3:AH:73:MET:HB3	2.12	0.49
3:AH:171:PRO:HG3	3:AH:181:GLU:OE2	2.13	0.49
3:AH:250:LEU:HD12	3:AH:250:LEU:H	1.78	0.49
2:AI:71:GLU:N	2:AI:71:GLU:OE1	2.46	0.49
4:B2:417:ARG:HA	4:B2:417:ARG:NH1	2.27	0.49
4:B7:42:ALA:O	4:B7:45:LEU:HG	2.13	0.49
4:B7:161:HIS:ND1	4:B7:239:LEU:HD11	2.28	0.49
2:BG:172:TYR:CG	2:BG:173:PRO:HD2	2.48	0.49
3:BH:36:TYR:CZ	3:BH:38:GLY:HA2	2.48	0.49
5:C2:95:THR:HG22	5:C2:97:ASP:H	1.78	0.49
5:C2:309:LEU:O	5:C2:312:GLN:HG3	2.12	0.49
5:C4:406:ARG:O	5:C4:411:LEU:HB3	2.13	0.49
5:C7:214:GLU:N	5:C7:214:GLU:OE1	2.46	0.49
2:CI:185:TYR:O	2:CI:188:ILE:HG22	2.13	0.49
2:CI:206:ASN:OD1	2:CI:207:GLU:N	2.46	0.49
2:CI:213:CYS:O	2:CI:218:ASP:N	2.45	0.49
3:CJ:3:GLU:O	3:CJ:130:LEU:HD12	2.12	0.49
3:CJ:40:SER:HB2	3:CJ:43:GLN:CG	2.41	0.49
3:CJ:313:VAL:HB	3:CJ:367:PHE:HE1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:319:GLN:OE1	6:D7:319:GLN:N	2.33	0.49
6:D8:447:GLN:HE22	8:F2:362:ALA:HB1	1.76	0.49
2:EE:384:ILE:HB	2:EE:388:TRP:HZ3	1.78	0.49
3:EF:12:CYS:CB	25:EF:501:GTP:H5'	2.41	0.49
2:EG:392:ASP:HB2	2:EG:422:ARG:NH1	2.27	0.49
8:F3:280:PHE:HZ	8:F7:449:SER:HB3	1.77	0.49
8:F7:402:ARG:HH11	8:F7:407:LEU:HD12	1.78	0.49
3:FD:28:HIS:O	3:FD:43:GLN:NE2	2.45	0.49
2:FE:388:TRP:CD1	2:FE:425:LEU:HD22	2.47	0.49
2:FG:88:HIS:HB3	2:FG:91:GLN:CG	2.43	0.49
9:G1:156:LYS:HG2	9:G1:163:TYR:CG	2.48	0.49
3:GD:292:GLN:O	3:GD:298:ASN:ND2	2.43	0.49
3:GF:143:THR:O	3:GF:147:MET:HG2	2.13	0.49
3:GH:267:MET:HB2	3:GH:301:ALA:HB3	1.95	0.49
11:H3:37:ARG:HG2	11:H3:37:ARG:HH11	1.78	0.49
11:H4:236:TYR:HB3	11:H4:237:ARG:HH11	1.77	0.49
3:HD:344:TRP:HZ3	2:HE:401:LYS:HB2	1.78	0.49
3:HD:416:ASN:O	3:HD:419:VAL:HB	2.13	0.49
2:HE:81:GLY:O	2:HE:84:ARG:NH1	2.46	0.49
2:HE:306:ASP:HB3	2:HE:309:HIS:ND1	2.27	0.49
3:HF:289:LEU:O	3:HF:293:MET:HG2	2.12	0.49
3:HH:2:ARG:HH22	2:HI:98:ASP:H	1.60	0.49
3:HH:217:LEU:O	3:HH:219:THR:N	2.41	0.49
2:HI:173:PRO:HG3	2:HI:183:GLU:OE2	2.13	0.49
2:IE:266:HIS:O	2:IE:268:PRO:HD3	2.12	0.49
2:IE:408:TYR:HB3	2:IE:413:MET:SD	2.53	0.49
13:J2:182:GLU:HA	13:J2:185:LEU:HG	1.94	0.49
2:JE:209:ILE:HG21	2:JE:227:LEU:HG	1.95	0.49
2:KE:202:PHE:CD1	2:KE:268:PRO:HD2	2.48	0.49
2:KG:5:ILE:HD11	2:KG:129:CYS:SG	2.53	0.49
2:KG:182:VAL:HG21	2:KG:408:TYR:OH	2.13	0.49
3:LD:36:TYR:CE2	3:LD:44:LEU:HD22	2.48	0.49
3:LH:86:ARG:NE	3:LH:86:ARG:HA	2.28	0.49
3:LH:164:MET:O	3:LH:164:MET:HG2	2.13	0.49
3:LH:266:PHE:CE1	3:LH:370:ASN:HB2	2.48	0.49
2:ME:332:ILE:HD11	2:ME:351:PHE:CD1	2.48	0.49
3:MF:101:TRP:CE3	3:MF:187:LEU:HD13	2.48	0.49
2:MG:417:GLU:H	2:MG:417:GLU:CD	2.15	0.49
3:MH:333:VAL:HA	3:MH:336:LYS:HB3	1.95	0.49
3:MH:361:LEU:H	3:MH:361:LEU:HD23	1.77	0.49
2:MI:330:ALA:O	2:MI:334:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:372:THR:HG22	3:ND:375:GLN:HE22	1.77	0.49
2:NG:126:ALA:HA	2:NG:129:CYS:SG	2.53	0.49
2:NG:196:GLU:HG2	2:NG:197:HIS:ND1	2.27	0.49
2:NG:236:SER:O	2:NG:243:ARG:NH2	2.45	0.49
2:NG:262:TYR:OH	3:NH:391:ARG:O	2.31	0.49
3:NH:73:MET:HA	3:NH:76:VAL:HB	1.94	0.49
3:NH:385:PHE:HZ	3:NH:408:PHE:HB3	1.77	0.49
3:NH:416:ASN:HA	3:NH:419:VAL:HG23	1.95	0.49
3:OD:36:TYR:CE2	3:OD:38:GLY:HA2	2.48	0.49
3:OD:344:TRP:O	2:OE:401:LYS:NZ	2.46	0.49
3:OD:420:SER:O	3:OD:424:GLN:HG3	2.12	0.49
2:OE:104:ALA:HB3	2:OE:413:MET:HE3	1.94	0.49
3:OF:172:SER:HB3	3:OF:175:VAL:O	2.13	0.49
2:OG:88:HIS:HE1	2:OG:90:GLU:CD	2.17	0.49
19:P2:298:LEU:HD22	19:P2:302:GLY:HA3	1.94	0.49
2:PE:127:ASP:OD1	2:PE:128:LEU:N	2.42	0.49
3:PF:211:CYS:HA	3:PF:215:LEU:HB2	1.95	0.49
3:PF:391:ARG:O	3:PF:392:LYS:HG3	2.12	0.49
2:PG:101:ASN:HA	2:PG:144:GLY:HA2	1.95	0.49
2:PG:314:ALA:HB3	2:PG:380:ASN:HB2	1.95	0.49
3:PH:38:GLY:O	24:YM:21:GLN:NE2	2.45	0.49
3:PH:86:ARG:NE	3:PH:86:ARG:HA	2.28	0.49
3:PH:261:PRO:HD3	2:PI:406:HIS:CG	2.48	0.49
20:Q1:1340:TRP:CZ2	20:Q1:1444:GLN:HB3	2.47	0.49
20:Q2:1410:LYS:NZ	20:Q2:1418:MET:HB2	2.28	0.49
20:Q2:1414:LEU:HD22	20:Q2:1416:ARG:HA	1.95	0.49
2:QE:224:TYR:HE2	25:QE:501:GTP:C5	2.29	0.49
2:QE:262:TYR:CE1	3:QF:393:ALA:HA	2.48	0.49
3:QF:337:ASN:HD22	3:QF:340:TYR:HD2	1.61	0.49
3:QH:51:TYR:CD1	3:QH:61:PRO:HA	2.48	0.49
2:QI:279:GLU:HA	24:YM:128:ASP:HB2	1.94	0.49
2:RE:139:HIS:HE1	2:RE:168:GLU:HB3	1.78	0.49
2:RG:127:ASP:OD1	2:RG:128:LEU:N	2.44	0.49
2:RG:166:LYS:O	2:RG:199:ASP:HB2	2.13	0.49
2:RI:53:PHE:O	2:RI:64:ARG:NH1	2.46	0.49
2:RI:102:ASN:ND2	2:RI:411:GLU:HG2	2.27	0.49
3:RJ:182:PRO:O	3:RJ:185:ALA:N	2.46	0.49
3:RJ:200:TYR:CD1	3:RJ:266:PHE:HB2	2.48	0.49
3:RJ:221:THR:OG1	3:RJ:224:ASP:N	2.43	0.49
3:RJ:371:SER:OG	3:RJ:372:THR:N	2.46	0.49
2:SE:312:TYR:HB2	2:SE:343:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SF:21:TRP:HZ3	3:SF:51:TYR:HE1	1.61	0.49
2:SG:331:ALA:O	2:SG:334:THR:OG1	2.24	0.49
2:SG:345:ASP:N	2:SG:345:ASP:OD1	2.45	0.49
2:SG:425:LEU:HD13	2:SG:428:LEU:HD12	1.94	0.49
3:SH:99:ASN:OD1	3:SH:142:GLY:HA3	2.13	0.49
3:SH:199:THR:HB	3:SH:264:HIS:O	2.13	0.49
2:SI:235:VAL:O	2:SI:238:ILE:HG12	2.13	0.49
3:SJ:270:PHE:CG	3:SJ:271:ALA:N	2.80	0.49
3:SJ:291:GLN:NE2	3:SJ:295:ASP:OD1	2.46	0.49
3:TF:172:SER:OG	3:TF:205:GLU:OE2	2.25	0.49
2:TG:408:TYR:O	2:TG:411:GLU:HG3	2.13	0.49
3:TH:302:ALA:HB1	3:TH:377:LEU:HD11	1.94	0.49
3:TJ:52:ASN:CG	3:TJ:62:ARG:HH11	2.13	0.49
3:UD:211:CYS:O	3:UD:216:LYS:N	2.41	0.49
2:UE:331:ALA:O	2:UE:334:THR:OG1	2.25	0.49
3:UF:316:VAL:HA	3:UF:352:ALA:O	2.13	0.49
3:UH:217:LEU:O	3:UH:219:THR:N	2.43	0.49
3:VD:313:VAL:HG23	3:VD:349:VAL:HA	1.95	0.49
3:VD:334:GLN:HA	3:VD:341:PHE:HE2	1.77	0.49
2:VE:89:PRO:HD2	2:WE:280:LYS:HZ3	1.76	0.49
2:VE:102:ASN:ND2	2:VE:411:GLU:HG2	2.27	0.49
2:VE:178:SER:OG	2:VE:180:ALA:O	2.30	0.49
3:VF:180:VAL:HG13	3:VF:184:ASN:OD1	2.13	0.49
2:VG:55:GLU:HA	2:VG:60:LYS:O	2.11	0.49
2:VG:219:ILE:HB	2:VG:222:PRO:HG3	1.94	0.49
2:WE:21:TRP:CD1	2:WE:67:PHE:HZ	2.30	0.49
2:WG:113:GLU:N	2:WG:113:GLU:OE1	2.46	0.49
2:WG:319:TYR:HA	2:WG:374:ALA:O	2.12	0.49
2:WG:392:ASP:OD1	2:WG:393:HIS:N	2.46	0.49
3:WH:12:CYS:HB3	25:WH:501:GTP:O4'	2.12	0.49
3:WH:246:LEU:HB2	3:WH:352:ALA:HB1	1.94	0.49
3:WH:378:PHE:CD1	3:WH:419:VAL:HG22	2.48	0.49
2:WI:196:GLU:HG2	2:WI:197:HIS:ND1	2.27	0.49
22:XC:115:LYS:O	22:XC:144:TYR:OH	2.24	0.49
23:XK:65:PHE:HE1	23:XK:92:TYR:HB3	1.77	0.49
23:XL:176:GLN:N	23:XL:176:GLN:OE1	2.46	0.49
24:YM:141:ILE:O	24:YM:145:LEU:HG	2.12	0.49
24:YN:7:SER:O	24:YN:11:ILE:HG12	2.12	0.49
1:A2:139:GLU:O	1:A2:143:ILE:HG13	2.12	0.48
1:A2:277:LYS:HE3	1:A3:24:TYR:CZ	2.48	0.48
2:AE:211:ASP:HB2	2:AE:215:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:350:LYS:CE	2:AG:181:VAL:HG13	2.42	0.48
2:AI:11:GLN:HB2	2:AI:74:VAL:HG11	1.95	0.48
2:AI:338:LYS:CE	17:N3:71:LEU:HG	2.43	0.48
4:B3:123:ARG:HG3	4:B3:124:ARG:N	2.28	0.48
3:BF:318:ARG:NH1	3:BF:358:PRO:HG3	2.28	0.48
2:BI:345:ASP:N	2:BI:345:ASP:OD1	2.46	0.48
5:C7:93:ARG:HB3	5:C8:210:LEU:HG	1.93	0.48
3:CH:211:CYS:HA	3:CH:215:LEU:HD12	1.95	0.48
6:D3:157:GLN:HG2	7:E2:43:ILE:CD1	2.43	0.48
6:D3:211:CYS:HA	6:D3:214:ASN:ND2	2.27	0.48
6:D4:370:ARG:HH12	6:D4:375:PHE:N	2.11	0.48
6:D7:358:TYR:HB2	6:D8:241:TYR:CE1	2.47	0.48
3:DD:40:SER:HB3	3:DD:42:LEU:HD23	1.93	0.48
3:DF:375:GLN:O	3:DF:379:LYS:HG2	2.13	0.48
3:DF:406:MET:O	3:DF:409:THR:OG1	2.22	0.48
3:EF:309:ARG:NH1	3:EF:341:PHE:O	2.39	0.48
2:EG:51:THR:HG21	2:EG:243:ARG:HG2	1.95	0.48
3:EH:102:ALA:HA	3:EH:403:MET:HE1	1.94	0.48
8:F7:330:ASP:O	8:F7:334:LYS:HD3	2.13	0.48
3:FD:163:ILE:HD13	3:FD:250:LEU:HB2	1.95	0.48
3:FF:5:VAL:HG23	3:FF:130:LEU:HD11	1.94	0.48
2:FG:25:CYS:HA	2:FG:30:ILE:HD13	1.95	0.48
2:FG:75:VAL:HG22	2:FG:79:ARG:HH21	1.77	0.48
2:GI:167:LEU:HD13	2:GI:200:CYS:HB2	1.95	0.48
2:GI:377:MET:SD	2:GI:379:SER:HB3	2.53	0.48
2:HE:54:SER:OG	2:HE:64:ARG:NE	2.46	0.48
2:IE:352:LYS:HD3	3:IF:178:THR:HA	1.95	0.48
13:J2:117:LEU:O	13:J2:121:MET:HG3	2.13	0.48
2:JE:53:PHE:HB3	2:JE:61:HIS:HB3	1.95	0.48
3:JF:109:GLY:O	3:JF:113:VAL:HG13	2.13	0.48
14:K2:333:CYS:HA	14:K2:464:ARG:NH2	2.11	0.48
14:K3:292:ALA:HA	14:K3:295:LYS:NZ	2.27	0.48
14:K3:304:LEU:O	14:K3:308:LYS:HG2	2.12	0.48
3:KD:182:PRO:HA	3:KD:381:ILE:HD11	1.94	0.48
2:KE:389:ALA:HA	2:KE:392:ASP:OD2	2.12	0.48
2:KG:318:LEU:HB3	2:KG:376:CYS:SG	2.53	0.48
2:KI:311:LYS:HE3	2:KI:344:VAL:HG12	1.94	0.48
2:KI:394:LYS:HG3	2:KI:398:MET:HE1	1.95	0.48
15:L3:193:ARG:NH1	15:L3:249:ILE:HG23	2.27	0.48
3:LD:91:VAL:HG11	3:LD:116:VAL:HG12	1.95	0.48
2:LE:36:MET:SD	2:LE:37:PRO:HD2	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:118:VAL:O	2:LE:122:ILE:HG12	2.13	0.48
2:LE:172:TYR:CD1	2:LE:173:PRO:HD2	2.48	0.48
2:LE:207:GLU:HB2	2:LE:304:LYS:NZ	2.26	0.48
2:LE:220:GLU:N	2:LE:220:GLU:OE1	2.45	0.48
3:LF:290:THR:HG21	3:LF:329:GLN:HB3	1.94	0.48
3:LH:350:LYS:NZ	2:LI:181:VAL:HG13	2.28	0.48
2:ME:8:HIS:CE1	2:ME:17:GLY:HA3	2.48	0.48
2:ME:325:PRO:HA	2:ME:328:VAL:HG12	1.93	0.48
2:MG:332:ILE:O	2:MG:336:LYS:HG3	2.13	0.48
3:MH:377:LEU:O	3:MH:380:ARG:HB2	2.13	0.48
2:MI:311:LYS:HG2	2:MI:342:GLN:HB3	1.93	0.48
17:N3:149:HIS:NE2	17:N3:154:ASN:HA	2.28	0.48
3:ND:173:PRO:O	3:ND:380:ARG:NH2	2.46	0.48
3:ND:318:ARG:NE	3:ND:356:ILE:O	2.29	0.48
2:NE:13:GLY:O	2:NE:16:ILE:HG12	2.12	0.48
2:NE:156:ARG:HA	2:NE:159:VAL:HG22	1.95	0.48
2:NE:319:TYR:HB2	2:NE:355:ILE:HD13	1.93	0.48
2:NG:186:ASN:OD1	2:NG:187:SER:N	2.46	0.48
3:NH:267:MET:HE3	3:NH:302:ALA:H	1.77	0.48
2:OE:3:GLU:OE2	2:OE:131:GLY:N	2.44	0.48
3:OF:292:GLN:O	3:OF:298:ASN:ND2	2.44	0.48
2:OG:173:PRO:O	2:OG:390:ARG:NH2	2.46	0.48
19:P1:497:GLN:HG2	19:P1:531:VAL:HG23	1.95	0.48
19:P1:517:ILE:O	19:P1:528:TYR:HA	2.12	0.48
3:PF:172:SER:HB3	3:PF:175:VAL:O	2.12	0.48
2:PG:185:TYR:O	2:PG:189:LEU:HG	2.13	0.48
2:PG:196:GLU:HG2	2:PG:197:HIS:ND1	2.27	0.48
2:PG:214:ARG:HH12	2:PG:215:ARG:HG3	1.77	0.48
2:PI:417:GLU:HA	2:PI:420:GLU:HG3	1.95	0.48
2:QE:16:ILE:HG22	2:QE:228:ASN:OD1	2.13	0.48
3:QF:211:CYS:SG	3:QF:220:PRO:HG3	2.53	0.48
2:QG:207:GLU:HB2	2:QG:304:LYS:NZ	2.28	0.48
3:QH:81:PHE:O	3:QH:84:ILE:HG22	2.12	0.48
3:QH:403:MET:HG2	3:QH:407:GLU:OE1	2.13	0.48
2:QI:70:LEU:HA	2:QI:95:GLY:HA3	1.94	0.48
21:R2:259:ARG:HA	21:R2:262:LYS:HZ3	1.78	0.48
2:RE:310:GLY:HA3	2:RE:383:ALA:HB2	1.94	0.48
3:RH:234:SER:O	3:RH:238:THR:HG23	2.13	0.48
3:RH:375:GLN:HA	3:RH:378:PHE:CE2	2.48	0.48
2:RI:255:PHE:O	2:RI:259:LEU:HD23	2.11	0.48
3:RJ:401:GLU:OE1	3:RJ:403:MET:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:11:GLN:HG3	25:SH:501:GTP:O5'	2.13	0.48
3:SH:371:SER:OG	3:SH:372:THR:N	2.44	0.48
3:SJ:285:THR:O	3:SJ:288:GLU:HG3	2.13	0.48
2:TG:52:PHE:O	2:TG:64:ARG:N	2.44	0.48
2:TI:30:ILE:HG23	2:TI:36:MET:HE1	1.93	0.48
2:TI:47:ASP:O	2:TI:50:ASN:N	2.29	0.48
2:TI:346:TRP:HZ2	3:TJ:391:ARG:HH11	1.61	0.48
3:TJ:262:ARG:HD3	3:TJ:262:ARG:N	2.28	0.48
3:UF:211:CYS:HA	3:UF:215:LEU:HB2	1.95	0.48
2:UG:154:MET:SD	2:UG:194:THR:HG22	2.53	0.48
3:VD:84:ILE:HG13	3:VD:85:PHE:CD1	2.48	0.48
3:VF:8:GLN:NE2	3:VF:14:ASN:OD1	2.46	0.48
3:VF:40:SER:O	3:VF:44:LEU:HG	2.12	0.48
3:VF:202:ILE:HD13	3:VF:301:ALA:HA	1.93	0.48
2:VG:53:PHE:CE1	2:VG:63:PRO:HG3	2.48	0.48
3:VH:1:MET:HG3	3:VH:2:ARG:N	2.27	0.48
3:VH:164:MET:HE3	3:VH:197:ASP:N	2.28	0.48
2:WG:224:TYR:HE2	25:WG:501:GTP:C5	2.30	0.48
3:WH:101:TRP:CZ3	3:WH:187:LEU:HD22	2.48	0.48
2:WI:270:ALA:HA	2:WI:377:MET:O	2.12	0.48
24:YI:68:MET:O	24:YI:72:ILE:HG13	2.12	0.48
24:YL:25:PHE:HD1	24:YL:65:ILE:HG22	1.78	0.48
24:YL:88:SER:OG	24:YL:165:HIS:HB3	2.12	0.48
24:YM:41:ARG:NH1	24:YM:48:GLN:OE1	2.46	0.48
24:YN:18:PHE:O	24:YN:22:GLN:HB3	2.13	0.48
1:A2:61:LYS:HD3	4:B3:281:TRP:NE1	2.28	0.48
1:A2:275:ARG:NH2	1:A2:276:ASN:OD1	2.46	0.48
2:AE:212:ILE:HG12	2:AE:215:ARG:NH2	2.28	0.48
2:AE:245:ASP:O	2:AE:356:ASN:ND2	2.46	0.48
4:B3:6:PHE:HB2	4:B3:11:ARG:HH12	1.78	0.48
3:BF:48:ASN:ND2	11:H3:23:PHE:HB2	2.25	0.48
3:BF:83:GLN:OE1	3:BF:83:GLN:N	2.42	0.48
2:BI:79:ARG:O	11:H4:20:TYR:OH	2.31	0.48
5:C4:372:ILE:HA	5:C4:375:ILE:HG22	1.95	0.48
5:C4:376:GLU:O	5:C4:379:ILE:HB	2.12	0.48
3:CF:61:PRO:HD2	3:CF:84:ILE:O	2.13	0.48
3:CF:101:TRP:HZ2	3:CF:149:THR:HG21	1.79	0.48
3:CF:325:GLU:HB3	2:CG:221:ARG:NH1	2.27	0.48
2:CG:310:GLY:HA3	2:CG:383:ALA:HB2	1.94	0.48
2:CI:167:LEU:HD13	2:CI:200:CYS:HB2	1.95	0.48
6:D3:110:MET:N	6:D3:110:MET:HE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D3:215:TRP:CZ2	6:D3:219:VAL:HG21	2.48	0.48
6:D7:363:ARG:NH2	6:D8:225:ASP:HA	2.27	0.48
3:DD:330:MET:HG3	3:DD:349:VAL:HG21	1.95	0.48
3:DH:193:VAL:HG21	3:DH:418:LEU:HD21	1.95	0.48
3:EF:233:MET:O	3:EF:237:THR:HG22	2.12	0.48
3:FD:14:ASN:HD21	3:FD:67:ASP:CG	2.15	0.48
3:FD:81:PHE:O	3:FD:84:ILE:HG22	2.13	0.48
2:FE:5:ILE:HB	2:FE:135:PHE:HD1	1.77	0.48
2:FE:15:GLN:CG	25:FE:501:GTP:HN1	2.24	0.48
2:FE:326:LYS:HA	2:FE:329:ASN:HD21	1.78	0.48
3:FF:331:LEU:HD11	2:FG:176:GLN:OE1	2.13	0.48
3:FH:234:SER:O	3:FH:238:THR:HG23	2.13	0.48
9:G1:88:ALA:O	9:G1:92:PHE:CD2	2.66	0.48
10:G5:18:GLU:OE1	10:G5:18:GLU:N	2.46	0.48
3:GD:2:ARG:NH1	2:GE:96:LYS:HB3	2.28	0.48
3:GH:310:TYR:HA	3:GH:371:SER:HB2	1.94	0.48
2:GI:16:ILE:HG21	2:GI:231:ILE:HD11	1.94	0.48
11:H4:227:ARG:HA	11:H4:230:TRP:CE3	2.48	0.48
2:HE:2:ARG:HH21	3:HF:70:PRO:HD3	1.78	0.48
2:HE:52:PHE:O	2:HE:64:ARG:HG3	2.14	0.48
2:HG:107:HIS:HD2	2:HG:148:GLY:O	1.95	0.48
2:IG:229:ARG:HH11	2:IG:363:VAL:HG11	1.77	0.48
2:II:42:ILE:HG12	2:II:55:GLU:OE2	2.13	0.48
2:II:51:THR:HG23	2:II:52:PHE:CD2	2.48	0.48
2:II:226:ASN:OD1	2:II:229:ARG:NH2	2.46	0.48
2:JE:68:VAL:HG12	2:JE:93:ILE:HB	1.94	0.48
2:JE:262:TYR:HE1	3:JF:393:ALA:HA	1.78	0.48
3:JF:28:HIS:HA	3:JF:43:GLN:OE1	2.12	0.48
2:JG:406:HIS:CE1	2:JG:407:TRP:CE2	3.02	0.48
14:K3:384:LYS:HE3	2:LI:337:THR:OG1	2.13	0.48
3:KD:111:GLU:N	3:KD:111:GLU:OE1	2.45	0.48
3:KF:411:ALA:O	3:KF:415:MET:HG2	2.14	0.48
2:KI:216:ASN:ND2	2:KI:275:VAL:HG23	2.28	0.48
15:L2:190:ASP:O	15:L2:193:ARG:HG2	2.11	0.48
2:LE:423:GLU:N	2:LE:423:GLU:OE1	2.45	0.48
3:LF:334:GLN:HG3	3:LF:341:PHE:CE2	2.48	0.48
2:LG:265:ILE:HD12	2:LG:432:TYR:CE1	2.47	0.48
16:M3:56:TYR:HB2	16:M3:89:PHE:CD2	2.48	0.48
2:ME:30:ILE:HA	2:ME:36:MET:HE1	1.95	0.48
2:ME:320:ARG:CZ	2:ME:360:PRO:HA	2.42	0.48
3:MF:318:ARG:HB3	3:MF:364:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:3:GLU:N	2:MG:133:GLN:OE1	2.46	0.48
2:MG:285:GLN:HE22	2:MG:287:SER:HB3	1.78	0.48
3:MH:117:LEU:HD11	3:MH:154:LYS:HD2	1.95	0.48
3:MH:186:THR:HB	3:MH:385:PHE:CZ	2.48	0.48
3:MH:334:GLN:HE22	3:MH:341:PHE:HD2	1.60	0.48
2:MI:196:GLU:OE1	2:MI:196:GLU:N	2.32	0.48
2:MI:287:SER:HA	2:MI:373:ARG:HD3	1.94	0.48
2:NE:162:GLY:HA2	2:NE:166:LYS:NZ	2.28	0.48
2:NE:196:GLU:HG2	2:NE:197:HIS:ND1	2.28	0.48
2:NE:398:MET:HA	2:NE:401:LYS:HG2	1.95	0.48
2:NG:213:CYS:O	2:NG:218:ASP:N	2.46	0.48
3:NH:138:SER:OG	3:NH:141:GLY:N	2.47	0.48
3:OD:374:ILE:HD12	3:OD:374:ILE:H	1.78	0.48
3:OD:417:ASP:O	3:OD:421:GLU:HG3	2.13	0.48
3:OF:277:GLY:O	3:OF:280:GLN:NE2	2.45	0.48
2:OI:371:VAL:HG11	2:OI:374:ALA:HB2	1.94	0.48
2:OI:396:ASP:OD1	2:OI:397:LEU:N	2.45	0.48
19:P1:363:SER:OG	19:P1:365:ARG:HG2	2.13	0.48
3:PF:251:ARG:O	3:PF:255:VAL:HG22	2.13	0.48
20:Q1:1444:GLN:O	20:Q1:1447:ILE:HG22	2.13	0.48
2:QE:33:ASP:OD1	2:QE:34:GLY:N	2.45	0.48
2:QE:235:VAL:HA	2:QE:238:ILE:HG12	1.95	0.48
3:QF:182:PRO:HB2	3:QF:388:MET:HE1	1.94	0.48
3:QH:64:VAL:HG21	3:QH:120:VAL:HG12	1.95	0.48
2:QI:84:ARG:NH2	24:YL:126:SER:OG	2.46	0.48
2:RE:141:PHE:CE1	2:RE:170:ALA:HB3	2.48	0.48
2:RE:167:LEU:HB3	2:RE:169:PHE:CE2	2.48	0.48
2:RE:215:ARG:NH2	2:RE:300:ASN:HD21	2.05	0.48
2:RE:351:PHE:HZ	3:RF:175:VAL:HG23	1.78	0.48
3:RH:152:ILE:HG13	3:RH:153:SER:N	2.29	0.48
2:SE:232:GLY:HA2	2:SE:235:VAL:HG22	1.95	0.48
2:SE:285:GLN:NE2	2:SE:286:LEU:O	2.46	0.48
3:SF:357:PRO:O	3:SF:359:ARG:NH2	2.46	0.48
3:SF:415:MET:HE3	3:SF:418:LEU:HD23	1.95	0.48
2:SI:315:CYS:O	2:SI:351:PHE:HA	2.12	0.48
2:SI:390:ARG:HA	2:SI:393:HIS:NE2	2.29	0.48
3:TF:114:ASP:OD1	3:TF:115:SER:N	2.44	0.48
2:TG:255:PHE:HA	2:TG:352:LYS:NZ	2.28	0.48
2:TI:12:ALA:HB1	25:TI:501:GTP:N2	2.28	0.48
3:TJ:36:TYR:HE2	3:TJ:44:LEU:HD13	1.78	0.48
3:TJ:61:PRO:CD	3:TJ:84:ILE:HG13	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:395:LEU:HD23	3:TJ:399:THR:HG23	1.95	0.48
3:UD:199:THR:HB	3:UD:265:PHE:HA	1.94	0.48
3:UD:324:LYS:HG3	3:UD:325:GLU:N	2.28	0.48
2:UE:89:PRO:HD2	2:VE:280:LYS:NZ	2.28	0.48
2:UE:171:ILE:HD11	2:UE:206:ASN:N	2.28	0.48
2:UE:311:LYS:HE3	2:UE:344:VAL:HA	1.95	0.48
3:UF:20:PHE:CZ	3:UF:233:MET:HG2	2.48	0.48
2:UG:208:ALA:HB3	2:UG:302:MET:HA	1.94	0.48
2:VE:109:THR:O	2:VE:112:LYS:NZ	2.45	0.48
2:VE:127:ASP:OD1	2:VE:128:LEU:N	2.44	0.48
3:VF:376:GLU:OE1	3:VF:376:GLU:N	2.43	0.48
2:VG:109:THR:O	2:VG:112:LYS:NZ	2.44	0.48
2:VG:172:TYR:OH	2:VG:387:ALA:HB1	2.13	0.48
2:VG:211:ASP:O	2:VG:214:ARG:NH1	2.46	0.48
3:VH:205:GLU:HA	3:VH:208:TYR:CD2	2.48	0.48
3:VH:309:ARG:N	3:VH:372:THR:OG1	2.29	0.48
3:VH:385:PHE:HZ	3:VH:408:PHE:HB3	1.78	0.48
2:WE:141:PHE:CD2	2:WE:172:TYR:HA	2.48	0.48
2:WE:213:CYS:HA	2:WE:217:LEU:HB2	1.95	0.48
2:WE:258:ASN:ND2	3:WF:178:THR:HG23	2.28	0.48
3:WF:21:TRP:CZ3	3:WF:61:PRO:HB3	2.48	0.48
3:WH:51:TYR:HB3	3:WH:59:TYR:HB3	1.95	0.48
2:WI:114:ILE:O	2:WI:118:VAL:HG23	2.12	0.48
23:XK:156:LEU:HD22	23:XK:159:LEU:HD12	1.95	0.48
23:XL:137:ILE:O	23:XL:141:LEU:HG	2.13	0.48
24:YJ:12:GLU:HG3	24:YJ:145:LEU:HD21	1.93	0.48
24:YJ:98:GLU:HA	24:YJ:101:LYS:HD2	1.95	0.48
1:A2:234:ASN:HA	12:I2:41:TYR:CE1	2.48	0.48
2:AE:244:PHE:HB2	2:AE:356:ASN:HD21	1.78	0.48
2:AE:263:PRO:HB2	2:AE:264:ARG:HD3	1.95	0.48
3:AF:304:ASP:HB3	3:AF:307:HIS:CE1	2.48	0.48
2:AG:235:VAL:O	2:AG:238:ILE:HG12	2.13	0.48
2:AI:215:ARG:NH1	2:AI:299:ALA:O	2.29	0.48
2:AI:285:GLN:HG3	2:MI:56:THR:HB	1.94	0.48
4:B3:136:GLU:HA	4:B3:139:LYS:HG2	1.94	0.48
4:B3:208:ILE:O	4:B3:210:LYS:NZ	2.39	0.48
3:BH:343:GLU:OE1	3:BH:343:GLU:N	2.45	0.48
5:C3:141:HIS:HB3	5:C4:419:ARG:NH2	2.07	0.48
5:C7:109:GLU:OE1	7:E2:146:GLY:HA2	2.13	0.48
5:C7:176:ASP:HA	5:C7:179:ARG:HH21	1.77	0.48
2:CG:79:ARG:NH2	11:H3:221:TYR:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:252:LYS:HE2	2:CI:101:ASN:N	2.28	0.48
3:CH:280:GLN:OE1	3:CH:280:GLN:N	2.30	0.48
3:CH:322:SER:N	3:CH:325:GLU:OE2	2.35	0.48
2:CI:348:PRO:HG2	3:CJ:384:GLN:OE1	2.13	0.48
2:CI:401:LYS:C	2:CI:402:ARG:HD3	2.33	0.48
6:D3:236:THR:HG23	6:D3:237:GLN:HG2	1.94	0.48
6:D3:387:SER:O	6:D3:391:LEU:HD23	2.13	0.48
2:DG:90:GLU:HG2	2:DG:121:ARG:NH2	2.28	0.48
2:EE:362:VAL:HA	2:EE:368:LEU:HD11	1.96	0.48
3:EF:202:ILE:HA	3:EF:301:ALA:HB1	1.95	0.48
3:EF:259:PRO:HA	2:EG:404:PHE:CE1	2.48	0.48
3:EF:344:TRP:CD1	2:EG:401:LYS:HD3	2.48	0.48
3:EF:392:LYS:HB2	3:EF:395:LEU:HD13	1.95	0.48
2:EG:346:TRP:O	2:EG:348:PRO:HD3	2.13	0.48
3:EH:378:PHE:HE1	3:EH:419:VAL:HG22	1.78	0.48
8:F2:208:HIS:CB	8:F3:89:ARG:HH12	2.26	0.48
8:F2:248:HIS:O	8:F2:251:GLU:HG3	2.14	0.48
8:F3:144:GLN:O	8:F3:147:SER:OG	2.25	0.48
8:F6:129:GLN:HB3	8:F6:133:GLN:NE2	2.28	0.48
8:F6:180:ALA:O	8:F6:184:VAL:HG23	2.14	0.48
8:F7:378:LEU:HD23	8:F7:434:LEU:HD23	1.95	0.48
2:FE:30:ILE:HD13	2:FE:36:MET:CE	2.42	0.48
2:FG:425:LEU:HD12	2:FG:428:LEU:HD12	1.95	0.48
3:FH:6:HIS:HD2	3:FH:134:GLN:HB3	1.79	0.48
3:FH:152:ILE:O	3:FH:156:ARG:HG2	2.12	0.48
9:G1:270:ASP:N	9:G1:270:ASP:OD1	2.46	0.48
9:G1:496:ILE:H	9:G1:502:ARG:NH1	2.11	0.48
10:G5:197:MET:O	10:G5:200:ARG:HG3	2.13	0.48
10:G5:624:HIS:O	10:G5:628:LYS:HG3	2.13	0.48
3:GD:324:LYS:HD3	2:GE:210:TYR:CE1	2.48	0.48
3:GF:101:TRP:CE3	3:GF:187:LEU:HD13	2.49	0.48
2:GG:88:HIS:CE1	2:HG:280:LYS:HZ1	2.31	0.48
2:GG:287:SER:N	2:GG:290:GLU:OE2	2.47	0.48
3:GH:316:VAL:HG22	3:GH:352:ALA:HB3	1.95	0.48
2:GI:10:GLY:O	2:GI:13:GLY:N	2.45	0.48
2:GI:56:THR:HG21	2:HI:285:GLN:HB2	1.95	0.48
2:GI:265:ILE:HD12	2:GI:267:PHE:HD1	1.79	0.48
3:HD:28:HIS:ND1	3:HD:43:GLN:HB2	2.28	0.48
3:HD:251:ARG:HH22	2:HE:105:ARG:NH2	2.12	0.48
2:HG:262:TYR:HH	2:HG:346:TRP:HZ3	1.59	0.48
2:HG:318:LEU:HG	2:HG:376:CYS:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:238:THR:HG22	3:HH:241:ARG:NH2	2.28	0.48
2:IE:10:GLY:O	2:IE:13:GLY:N	2.44	0.48
2:IE:135:PHE:CZ	2:IE:164:LYS:HD2	2.48	0.48
2:II:326:LYS:HA	2:II:329:ASN:ND2	2.28	0.48
13:J2:49:THR:O	13:J2:101:THR:HA	2.13	0.48
3:JD:310:TYR:HD1	3:JD:371:SER:HB2	1.77	0.48
3:JF:375:GLN:OE1	3:JF:375:GLN:N	2.40	0.48
3:JH:322:SER:N	3:JH:325:GLU:OE2	2.32	0.48
14:K3:206:LEU:O	14:K3:210:LYS:HG2	2.13	0.48
14:K3:222:ASP:OD1	14:K3:225:LYS:NZ	2.39	0.48
2:KE:272:TYR:HD2	2:KE:275:VAL:HG13	1.78	0.48
15:L3:167:LYS:O	15:L3:167:LYS:NZ	2.46	0.48
3:LD:343:GLU:OE1	3:LD:343:GLU:N	2.45	0.48
2:LE:271:THR:HB	2:LE:377:MET:HB2	1.94	0.48
3:LF:261:PRO:HD3	2:LG:406:HIS:CD2	2.48	0.48
2:ME:216:ASN:HD21	2:ME:275:VAL:HG23	1.78	0.48
2:ME:393:HIS:HA	2:ME:396:ASP:OD2	2.13	0.48
2:MG:338:LYS:NZ	2:MG:339:ARG:H	2.12	0.48
2:MG:347:CYS:HB2	2:MG:349:THR:O	2.13	0.48
2:MI:224:TYR:CE1	25:MI:501:GTP:C5	2.98	0.48
2:NE:121:ARG:O	2:NE:124:LYS:HG3	2.13	0.48
3:NF:80:PRO:HB2	3:NF:81:PHE:CD2	2.48	0.48
2:NG:259:LEU:HD21	2:NG:316:CYS:HB2	1.95	0.48
3:NH:309:ARG:N	3:NH:372:THR:OG1	2.47	0.48
3:OD:257:MET:SD	3:OD:314:ALA:HB2	2.53	0.48
3:OD:380:ARG:O	3:OD:384:GLN:HG2	2.14	0.48
2:OE:145:THR:OG1	25:OE:501:GTP:O1B	2.29	0.48
2:OE:146:GLY:N	25:OE:501:GTP:O2B	2.46	0.48
2:OI:216:ASN:ND2	2:OI:275:VAL:HG23	2.14	0.48
19:P1:44:GLY:HA2	19:P1:66:ASN:HB2	1.95	0.48
19:P1:603:VAL:HA	19:P1:612:LEU:O	2.13	0.48
19:P2:21:GLY:HA2	19:P2:330:CYS:SG	2.53	0.48
19:P2:494:ARG:NH2	19:P2:495:ARG:HE	2.11	0.48
19:P2:569:VAL:O	19:P2:582:VAL:HA	2.13	0.48
2:PE:50:ASN:OD1	2:PE:51:THR:N	2.46	0.48
3:PF:341:PHE:HD1	3:PF:348:ASN:HD21	1.60	0.48
3:PH:193:VAL:HG11	3:PH:414:ASN:ND2	2.22	0.48
3:PH:306:ARG:O	3:PH:306:ARG:NE	2.42	0.48
2:PI:161:TYR:O	2:PI:166:LYS:NZ	2.42	0.48
2:PI:235:VAL:HA	2:PI:238:ILE:HG12	1.95	0.48
2:QE:286:LEU:HG	2:QE:373:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:6:HIS:HE1	3:QF:8:GLN:HB2	1.78	0.48
3:QF:385:PHE:O	3:QF:389:PHE:HB2	2.13	0.48
2:QG:25:CYS:SG	2:QG:26:LEU:HD22	2.53	0.48
3:QH:357:PRO:HB3	3:QH:362:LYS:O	2.14	0.48
2:QI:397:LEU:HD12	2:QI:398:MET:HE2	1.94	0.48
2:RE:229:ARG:HE	2:RE:363:VAL:CG1	2.27	0.48
3:RF:156:ARG:HD2	3:RF:195:ASN:HA	1.94	0.48
3:RF:273:LEU:H	3:RF:292:GLN:NE2	2.01	0.48
2:RG:206:ASN:HA	2:RG:209:ILE:HD12	1.95	0.48
2:RI:54:SER:H	2:RI:62:VAL:H	1.61	0.48
2:SE:16:ILE:HG22	2:SE:228:ASN:OD1	2.13	0.48
3:SF:156:ARG:HA	3:SF:156:ARG:HD2	1.67	0.48
2:SG:2:ARG:NH2	2:SG:250:VAL:O	2.44	0.48
3:SH:8:GLN:OE1	3:SH:14:ASN:HA	2.13	0.48
3:SH:122:LYS:HG2	3:TH:291:GLN:NE2	2.28	0.48
3:SH:292:GLN:O	3:SH:298:ASN:ND2	2.38	0.48
2:SI:5:ILE:HB	2:SI:135:PHE:CD1	2.47	0.48
2:SI:88:HIS:CE1	2:SI:121:ARG:HH22	2.31	0.48
3:SJ:6:HIS:ND1	3:SJ:134:GLN:HG2	2.29	0.48
3:SJ:8:GLN:NE2	3:SJ:14:ASN:O	2.46	0.48
3:SJ:275:SER:N	3:SJ:278:SER:OG	2.46	0.48
3:TF:14:ASN:ND2	3:TF:67:ASP:OD2	2.41	0.48
3:TF:246:LEU:HB2	3:TF:352:ALA:HB1	1.94	0.48
2:TG:387:ALA:HA	2:TG:390:ARG:CZ	2.43	0.48
2:TI:139:HIS:CE1	2:TI:170:ALA:HB2	2.48	0.48
3:TJ:337:ASN:HB2	3:TJ:340:TYR:HB2	1.95	0.48
2:UE:192:HIS:CE1	2:UE:193:THR:HG23	2.49	0.48
2:VE:47:ASP:HB3	2:VE:49:PHE:CE2	2.47	0.48
2:VE:263:PRO:O	2:VE:264:ARG:HB2	2.14	0.48
3:VF:40:SER:O	3:VF:43:GLN:HG2	2.14	0.48
3:VF:269:GLY:CA	3:VF:367:PHE:HB3	2.43	0.48
2:VG:50:ASN:O	2:VG:64:ARG:NH1	2.46	0.48
3:VH:243:PRO:HG2	3:VH:356:ILE:HD11	1.94	0.48
2:WE:30:ILE:HG23	2:WE:36:MET:HE3	1.95	0.48
2:WE:260:VAL:HG13	3:WF:397:TRP:CH2	2.48	0.48
3:WF:87:PRO:HA	3:WF:90:PHE:CD2	2.48	0.48
3:WH:209:ASP:O	3:WH:213:ARG:HG2	2.14	0.48
3:WH:374:ILE:HA	3:WH:377:LEU:HD13	1.95	0.48
22:XD:136:LEU:O	22:XD:140:THR:HG23	2.12	0.48
24:YJ:78:LYS:O	24:YJ:81:GLN:HG3	2.13	0.48
24:YN:110:LEU:HD23	24:YN:140:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:214:ARG:NH1	17:N2:88:ASN:HA	2.27	0.48
3:AF:251:ARG:O	3:AF:255:VAL:HG22	2.12	0.48
2:AG:166:LYS:O	2:AG:199:ASP:HB2	2.13	0.48
4:B2:389:LYS:HA	4:B2:408:VAL:HG21	1.95	0.48
3:BF:42:LEU:HD11	3:BF:356:ILE:HG21	1.95	0.48
2:BG:2:ARG:HA	2:BG:133:GLN:HE22	1.78	0.48
3:BH:113:VAL:O	3:BH:117:LEU:HD23	2.14	0.48
2:BI:184:PRO:HB2	2:BI:395:PHE:HD2	1.78	0.48
5:C3:215:ALA:O	5:C3:219:LEU:HG	2.13	0.48
2:CI:235:VAL:O	2:CI:238:ILE:HG12	2.12	0.48
6:D8:336:ILE:HD13	6:D8:402:LEU:HD11	1.96	0.48
3:DD:41:ASP:N	3:DD:41:ASP:OD1	2.46	0.48
3:DD:210:ILE:HD11	3:DD:297:LYS:O	2.14	0.48
3:DF:182:PRO:HB2	3:DF:388:MET:HE2	1.95	0.48
3:DF:322:SER:OG	3:DF:323:MET:N	2.46	0.48
3:DH:233:MET:HA	3:DH:236:VAL:HG12	1.95	0.48
3:DH:310:TYR:HD1	3:DH:371:SER:HB2	1.78	0.48
3:ED:395:LEU:HD23	3:ED:399:THR:HG23	1.96	0.48
2:EG:320:ARG:HD3	2:EG:360:PRO:HG3	1.95	0.48
8:F2:201:ARG:NH1	8:F2:207:VAL:H	2.10	0.48
2:FG:246:GLY:HA2	2:FG:357:TYR:CD2	2.48	0.48
2:FG:399:TYR:CE1	2:FG:418:PHE:HB3	2.47	0.48
3:FH:19:LYS:O	3:FH:22:GLU:HG3	2.12	0.48
10:G5:171:ASP:HB3	10:G5:174:THR:HG23	1.95	0.48
10:G5:450:ARG:HD3	10:G5:475:ASN:HB3	1.95	0.48
10:G5:530:LEU:O	10:G5:533:MET:HB3	2.13	0.48
10:G5:530:LEU:O	10:G5:534:GLU:OE1	2.31	0.48
10:G5:562:ILE:HD11	10:G5:589:ILE:HG12	1.94	0.48
2:GE:5:ILE:HD13	2:GE:64:ARG:HB3	1.93	0.48
2:GE:353:VAL:N	3:GF:177:ASP:OD1	2.39	0.48
11:H3:16:TYR:HB2	11:H3:39:THR:HG21	1.95	0.48
11:H4:9:LEU:HG	11:H4:10:PHE:H	1.78	0.48
3:HH:291:GLN:NE2	3:HH:295:ASP:OD1	2.46	0.48
2:IE:398:MET:SD	2:IE:401:LYS:HE2	2.53	0.48
3:IF:226:ASN:HA	3:IF:229:VAL:HG22	1.96	0.48
3:IF:240:LEU:HA	3:IF:248:ALA:HB1	1.95	0.48
2:IG:224:TYR:HB3	2:IG:228:ASN:HD21	1.78	0.48
3:JD:206:ALA:O	3:JD:210:ILE:HG12	2.13	0.48
2:JE:161:TYR:HB3	2:JE:164:LYS:NZ	2.28	0.48
2:JG:269:LEU:HD21	2:JG:303:VAL:HB	1.93	0.48
3:JH:345:ILE:HD12	3:JH:346:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:360:GLY:O	3:JH:362:LYS:NZ	2.46	0.48
3:KH:132:GLY:HA2	3:KH:162:ARG:HB3	1.95	0.48
2:KI:16:ILE:HG13	2:KI:17:GLY:N	2.28	0.48
3:LD:249:ASP:OD2	3:LD:251:ARG:HB3	2.12	0.48
2:LE:167:LEU:HD13	2:LE:200:CYS:HB2	1.95	0.48
2:LG:33:ASP:HA	2:LG:85:GLN:HE21	1.77	0.48
2:LG:245:ASP:HB2	2:LG:357:TYR:OH	2.13	0.48
2:LI:399:TYR:OH	2:LI:415:GLU:HB2	2.13	0.48
16:M2:56:TYR:HB2	16:M2:89:PHE:HB2	1.95	0.48
3:MF:197:ASP:OD1	3:MF:198:GLU:N	2.45	0.48
3:MF:250:LEU:HD12	3:MF:250:LEU:H	1.79	0.48
2:MI:144:GLY:N	25:MI:501:GTP:O2B	2.44	0.48
2:MI:316:CYS:HA	2:MI:352:LYS:O	2.14	0.48
3:ND:54:ALA:HA	3:OD:283:ALA:HB2	1.95	0.48
3:ND:208:TYR:CE1	3:ND:225:LEU:HD21	2.48	0.48
2:NE:166:LYS:HB3	2:NE:168:GLU:OE2	2.13	0.48
3:NF:218:THR:O	3:NF:220:PRO:HD3	2.12	0.48
3:NF:247:ASN:CB	3:NF:252:LYS:HG2	2.43	0.48
3:NF:255:VAL:HA	2:NG:407:TRP:NE1	2.28	0.48
2:NI:141:PHE:HB2	2:NI:173:PRO:HD3	1.94	0.48
18:O1:102:LEU:HD12	18:O1:109:LEU:HD23	1.96	0.48
3:OD:100:ASN:OD1	3:OD:103:LYS:N	2.33	0.48
2:OE:102:ASN:ND2	2:OE:411:GLU:OE2	2.39	0.48
2:OE:118:VAL:O	2:OE:122:ILE:HG12	2.13	0.48
3:OF:12:CYS:HA	25:OF:501:GTP:N3	2.29	0.48
3:OF:101:TRP:CE3	3:OF:187:LEU:HD13	2.48	0.48
3:OH:304:ASP:O	3:OH:307:HIS:ND1	2.43	0.48
2:OI:46:ASP:HA	2:OI:50:ASN:HB3	1.94	0.48
2:PE:98:ASP:HB2	2:PE:145:THR:HG22	1.95	0.48
2:PE:154:MET:HA	2:PE:157:LEU:HG	1.96	0.48
3:PF:167:PHE:HE2	3:PF:233:MET:SD	2.37	0.48
2:PI:345:ASP:OD1	2:PI:345:ASP:N	2.45	0.48
20:Q1:1487:GLU:OE1	20:Q1:1487:GLU:N	2.44	0.48
20:Q2:1397:CYS:SG	20:Q2:1434:PRO:HG2	2.53	0.48
2:QE:21:TRP:CE3	2:QE:24:TYR:HD2	2.31	0.48
2:QE:75:VAL:HG23	2:QE:92:LEU:HD12	1.95	0.48
2:QE:151:SER:O	2:QE:154:MET:HG3	2.14	0.48
2:QE:280:LYS:NZ	2:QE:284:GLU:OE2	2.45	0.48
2:QG:88:HIS:CE1	2:QG:121:ARG:HH22	2.31	0.48
2:QI:21:TRP:HA	2:QI:24:TYR:HB2	1.95	0.48
2:QI:119:LEU:HA	2:QI:122:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QI:167:LEU:HB3	2:QI:169:PHE:CE2	2.49	0.48
2:QI:185:TYR:OH	2:QI:398:MET:HB3	2.13	0.48
2:QI:254:GLU:HA	2:QI:257:THR:OG1	2.13	0.48
2:QI:272:TYR:HD2	2:QI:275:VAL:HG13	1.79	0.48
3:RF:172:SER:HB2	3:RF:204:ASN:OD1	2.14	0.48
2:RG:113:GLU:N	2:RG:113:GLU:OE1	2.46	0.48
2:RI:211:ASP:O	2:RI:214:ARG:HD3	2.13	0.48
3:SF:99:ASN:OD1	3:SF:142:GLY:HA3	2.13	0.48
2:SG:85:GLN:OE1	2:SG:85:GLN:N	2.37	0.48
3:SH:11:GLN:HG3	25:SH:501:GTP:PA	2.53	0.48
3:SH:405:GLU:O	3:SH:409:THR:HG23	2.13	0.48
3:SJ:141:GLY:CA	25:SJ:501:GTP:H5''	2.44	0.48
3:TF:249:ASP:HB3	3:TF:252:LYS:CG	2.43	0.48
3:UD:147:MET:O	3:UD:151:LEU:HD23	2.13	0.48
2:UE:89:PRO:HD3	2:VE:283:HIS:NE2	2.27	0.48
2:UE:217:LEU:HA	2:UE:277:SER:HB3	1.95	0.48
2:UE:262:TYR:CE1	3:UF:393:ALA:HA	2.48	0.48
3:UF:378:PHE:CE1	3:UF:419:VAL:HG13	2.48	0.48
2:UG:101:ASN:HA	2:UG:144:GLY:O	2.13	0.48
3:UH:28:HIS:HB2	3:UH:30:ILE:CD1	2.43	0.48
2:VE:333:ALA:O	2:VE:337:THR:HG23	2.13	0.48
2:VG:257:THR:HA	3:VH:397:TRP:CZ2	2.48	0.48
2:WE:319:TYR:HE2	2:WE:328:VAL:HG22	1.79	0.48
3:WF:86:ARG:NE	3:WF:86:ARG:HA	2.29	0.48
3:WF:215:LEU:HD21	3:WF:228:LEU:HD11	1.94	0.48
2:WG:120:ASP:OD1	2:WG:123:ARG:NE	2.43	0.48
2:WG:265:ILE:HB	2:WG:432:TYR:HE1	1.78	0.48
3:WH:101:TRP:CE2	3:WH:187:LEU:HB3	2.49	0.48
2:WI:117:LEU:O	2:WI:121:ARG:HG2	2.14	0.48
22:XD:80:ILE:HG23	22:XD:130:ASN:OD1	2.13	0.48
22:XE:115:LYS:HB2	22:XE:118:ILE:HG13	1.95	0.48
23:XJ:76:ASN:HB2	23:XJ:113:ARG:HH22	1.77	0.48
23:XJ:188:ASN:HD21	23:XJ:206:GLY:H	1.60	0.48
23:XJ:203:GLU:OE1	23:XJ:203:GLU:N	2.46	0.48
23:XL:55:THR:O	23:XL:58:LYS:HG3	2.13	0.48
23:XL:69:LEU:HA	23:XL:79:ALA:N	2.29	0.48
24:YI:78:LYS:O	24:YI:81:GLN:HG3	2.12	0.48
24:YK:141:ILE:O	24:YK:145:LEU:HG	2.12	0.48
24:YN:43:ILE:HD13	24:YN:134:TYR:CE1	2.48	0.48
2:AE:113:GLU:N	2:AE:113:GLU:OE1	2.46	0.48
2:AE:143:GLY:HA3	2:AE:147:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:117:LEU:HB3	3:AH:121:ARG:NH1	2.28	0.48
4:B3:112:VAL:HG12	4:B3:394:ARG:NH2	2.29	0.48
2:BE:358:GLN:NE2	2:BE:359:PRO:O	2.47	0.48
3:BH:161:ASP:OD1	3:BH:161:ASP:N	2.43	0.48
2:BI:317:MET:N	2:BI:317:MET:SD	2.87	0.48
5:C8:260:ASP:OD1	5:C8:261:LYS:N	2.46	0.48
2:CG:318:LEU:HB2	2:CG:376:CYS:SG	2.53	0.48
3:CH:32:PRO:HG2	10:G5:347:TRP:HB3	1.95	0.48
3:CH:324:LYS:HD2	2:CI:221:ARG:HA	1.96	0.48
2:CI:230:LEU:O	2:CI:234:ILE:HG12	2.13	0.48
3:CJ:342:VAL:HB	3:CJ:344:TRP:HE3	1.78	0.48
6:D2:63:ARG:HG2	6:D2:63:ARG:HH11	1.78	0.48
6:D3:26:GLU:HA	6:D3:29:VAL:HG12	1.95	0.48
6:D3:269:GLU:OE2	6:D3:272:ARG:NH2	2.46	0.48
3:DD:40:SER:HB2	3:DD:43:GLN:CG	2.43	0.48
3:DD:113:VAL:HA	3:DD:116:VAL:HG22	1.94	0.48
3:DF:246:LEU:O	3:DF:247:ASN:ND2	2.46	0.48
3:DF:350:LYS:NZ	2:DG:181:VAL:HG13	2.28	0.48
2:DG:172:TYR:CD1	2:DG:173:PRO:HD2	2.48	0.48
3:EF:19:LYS:O	3:EF:22:GLU:HG3	2.14	0.48
3:EF:106:TYR:HB2	3:EF:401:GLU:OE2	2.13	0.48
3:EF:274:THR:HG22	3:EF:279:GLN:NE2	2.28	0.48
8:F7:181:ALA:N	8:F7:229:MET:HE1	2.29	0.48
3:FD:4:ILE:HD11	3:FD:131:GLN:HB2	1.95	0.48
3:FD:152:ILE:HD13	3:FD:192:LEU:HD23	1.95	0.48
2:FG:46:ASP:OD1	2:FG:46:ASP:N	2.47	0.48
3:FH:286:VAL:HA	3:FH:289:LEU:HD12	1.94	0.48
9:G2:153:ARG:HD3	9:G2:162:HIS:CE1	2.49	0.48
10:G5:47:LEU:HG	10:G5:51:GLN:HB3	1.95	0.48
3:GD:295:ASP:HB2	3:GD:298:ASN:HB2	1.96	0.48
3:GF:1:MET:N	3:GF:128:ASP:OD2	2.40	0.48
3:GF:55:THR:HG23	3:HF:283:ALA:HA	1.96	0.48
3:GF:157:GLU:HG2	3:GF:158:GLU:N	2.28	0.48
3:GH:347:ASN:HB2	2:GI:178:SER:HB3	1.94	0.48
2:GI:207:GLU:HB2	2:GI:304:LYS:NZ	2.27	0.48
3:HD:214:THR:HG21	3:HD:273:LEU:HB3	1.95	0.48
3:HF:6:HIS:HB2	3:HF:134:GLN:HE22	1.78	0.48
3:HF:267:MET:N	3:HF:267:MET:SD	2.85	0.48
2:HI:145:THR:HG1	25:HI:501:GTP:PB	2.36	0.48
2:IE:82:THR:O	2:IE:85:GLN:NE2	2.38	0.48
2:IE:345:ASP:N	2:IE:345:ASP:OD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:325:GLU:HA	3:IF:328:GLU:HG3	1.95	0.48
2:IG:1:MET:O	2:IG:133:GLN:NE2	2.47	0.48
2:II:308:ARG:NH2	2:II:340:THR:O	2.46	0.48
3:JD:11:GLN:HG3	25:JD:501:GTP:O5'	2.13	0.48
3:JH:334:GLN:HA	3:JH:341:PHE:HE2	1.79	0.48
14:K3:35:LEU:HD12	14:K3:36:THR:HG23	1.96	0.48
14:K3:139:ARG:HB3	14:K3:264:TRP:HZ2	1.78	0.48
2:KE:175:PRO:HD2	2:KE:207:GLU:OE1	2.14	0.48
2:KE:306:ASP:OD2	2:KE:308:ARG:HB2	2.12	0.48
2:KG:88:HIS:ND1	2:LG:284:GLU:OE2	2.47	0.48
15:L3:227:LYS:O	15:L3:231:GLU:HG2	2.13	0.48
2:LG:186:ASN:OD1	2:LG:187:SER:N	2.47	0.48
3:LH:91:VAL:HG11	3:LH:116:VAL:HG12	1.95	0.48
2:LI:5:ILE:O	2:LI:135:PHE:HA	2.14	0.48
16:M2:48:LYS:NZ	16:M2:92:TYR:HB3	2.28	0.48
2:ME:265:ILE:HD12	2:ME:432:TYR:CD1	2.48	0.48
3:MF:21:TRP:CZ2	3:MF:63:ALA:HB2	2.47	0.48
3:MF:77:ARG:HD3	3:MF:90:PHE:HE2	1.79	0.48
3:MH:257:MET:O	3:MH:312:THR:HG21	2.14	0.48
3:MH:328:GLU:OE1	3:MH:332:ASN:ND2	2.46	0.48
3:ND:21:TRP:CZ3	3:ND:51:TYR:HE1	2.32	0.48
3:NH:372:THR:HG21	3:NH:426:GLN:HG3	1.95	0.48
3:NH:374:ILE:HD12	3:NH:374:ILE:H	1.78	0.48
18:O2:81:LEU:HD22	18:O2:116:LYS:O	2.13	0.48
2:OE:311:LYS:NZ	2:OE:343:PHE:O	2.39	0.48
3:OF:419:VAL:HG12	3:OF:423:GLN:NE2	2.28	0.48
2:OG:1:MET:SD	2:OG:1:MET:N	2.84	0.48
25:OH:501:GTP:O3G	25:OH:501:GTP:O3'	2.20	0.48
2:OI:240:ALA:HA	2:OI:243:ARG:HB3	1.95	0.48
19:P1:73:SER:OG	19:P1:77:ASP:N	2.40	0.48
19:P1:89:PHE:O	19:P1:112:GLY:N	2.41	0.48
19:P1:340:PHE:CE1	19:P1:594:ARG:HD2	2.48	0.48
19:P2:348:PHE:CE1	19:P2:359:TRP:HB2	2.49	0.48
19:P2:470:LYS:HE2	19:P2:514:GLU:HB3	1.95	0.48
2:PE:322:ASP:OD1	2:PE:322:ASP:N	2.42	0.48
3:PF:40:SER:HB2	3:PF:43:GLN:HG2	1.94	0.48
3:PF:138:SER:HB2	3:PF:169:VAL:HG12	1.95	0.48
3:PF:229:VAL:O	3:PF:232:THR:OG1	2.21	0.48
3:PF:317:PHE:HB2	3:PF:353:VAL:HG22	1.96	0.48
3:PF:419:VAL:O	3:PF:423:GLN:NE2	2.47	0.48
3:PH:139:LEU:N	3:PH:168:SER:OG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:302:MET:SD	2:PI:302:MET:N	2.86	0.48
20:Q2:1485:LEU:HD22	20:Q2:1490:PHE:CD1	2.48	0.48
2:QI:68:VAL:HG12	2:QI:93:ILE:HB	1.96	0.48
3:RH:19:LYS:HZ1	3:RH:227:HIS:HB2	1.78	0.48
3:RH:86:ARG:NE	3:RH:87:PRO:HD2	2.29	0.48
2:RI:174:ALA:HB3	2:RI:177:VAL:O	2.13	0.48
2:SE:287:SER:N	2:SE:290:GLU:OE2	2.46	0.48
2:SI:280:LYS:HD2	2:SI:283:HIS:NE2	2.28	0.48
3:TH:404:ASP:N	3:TH:404:ASP:OD1	2.44	0.48
3:TJ:2:ARG:HA	3:TJ:129:CYS:O	2.13	0.48
3:UH:31:ASP:N	3:UH:31:ASP:OD1	2.45	0.48
3:UH:380:ARG:O	3:UH:384:GLN:HG2	2.14	0.48
3:VD:198:GLU:HA	3:VD:266:PHE:HE2	1.78	0.48
2:VE:12:ALA:HB1	25:VE:501:GTP:C6	2.49	0.48
2:VE:103:TYR:O	2:VE:107:HIS:HB2	2.14	0.48
3:VF:23:VAL:HA	3:VF:26:ASP:OD2	2.13	0.48
3:VF:314:ALA:HB3	3:VF:368:ILE:HG22	1.94	0.48
2:VG:184:PRO:HB2	2:VG:395:PHE:HD2	1.78	0.48
3:VH:173:PRO:O	3:VH:380:ARG:NH2	2.46	0.48
2:WG:150:ALA:O	2:WG:154:MET:HG3	2.13	0.48
2:WI:54:SER:N	2:WI:62:VAL:O	2.46	0.48
2:WI:211:ASP:O	2:WI:215:ARG:HB2	2.13	0.48
22:XE:76:LEU:HG	22:XE:134:PHE:HB2	1.94	0.48
23:XK:178:LEU:N	23:XK:179:PRO:HD2	2.28	0.48
24:YM:78:LYS:O	24:YM:81:GLN:HG3	2.13	0.48
2:AE:337:THR:O	2:AE:339:ARG:NH1	2.44	0.48
3:AF:234:SER:O	3:AF:238:THR:HG23	2.13	0.48
2:AG:53:PHE:O	2:AG:64:ARG:NH2	2.47	0.48
2:AI:264:ARG:HH12	22:XE:116:PRO:HG2	1.79	0.48
4:B7:78:LEU:HD13	4:B7:179:LYS:NZ	2.29	0.48
4:B8:321:ARG:O	4:B8:324:ARG:HG3	2.14	0.48
3:BF:113:VAL:O	3:BF:117:LEU:HD23	2.13	0.48
2:BG:185:TYR:O	2:BG:189:LEU:HG	2.14	0.48
2:BI:270:ALA:O	2:BI:302:MET:HE1	2.13	0.48
5:C8:362:HIS:O	5:C8:366:THR:HG23	2.13	0.48
3:CF:32:PRO:HA	3:CF:81:PHE:CE2	2.49	0.48
3:CH:289:LEU:CD2	3:CH:363:MET:HG3	2.40	0.48
3:CH:318:ARG:NE	3:CH:356:ILE:O	2.23	0.48
2:CI:260:VAL:O	3:CJ:397:TRP:HH2	1.97	0.48
2:CI:329:ASN:O	2:CI:332:ILE:HG22	2.13	0.48
6:D3:311:LEU:HB3	6:D3:419:LYS:HZ1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D9:228:CYS:O	6:D9:231:TYR:HD2	1.96	0.48
3:DD:15:GLN:NE2	3:DD:222:TYR:HD1	2.11	0.48
3:DD:58:LYS:HZ1	3:DD:84:ILE:HA	1.79	0.48
2:DE:287:SER:O	2:DE:291:ILE:HG23	2.13	0.48
3:DF:246:LEU:HD13	3:DF:353:VAL:C	2.34	0.48
3:DH:130:LEU:HB3	3:DH:132:GLY:N	2.28	0.48
2:EG:196:GLU:OE1	2:EG:196:GLU:N	2.28	0.48
3:FD:350:LYS:CE	2:FE:181:VAL:HG13	2.44	0.48
3:GD:233:MET:O	3:GD:236:VAL:HG12	2.13	0.48
3:GD:349:VAL:O	3:GD:350:LYS:NZ	2.41	0.48
2:GE:68:VAL:HG12	2:GE:93:ILE:HB	1.95	0.48
3:GF:283:ALA:O	3:GF:288:GLU:HG2	2.13	0.48
2:GG:188:ILE:O	2:GG:191:THR:OG1	2.26	0.48
3:HD:32:PRO:O	3:HD:83:GLN:NE2	2.46	0.48
3:HD:113:VAL:HA	3:HD:116:VAL:HG12	1.96	0.48
2:HG:206:ASN:OD1	2:HG:206:ASN:N	2.47	0.48
2:IE:338:LYS:HZ3	2:IE:339:ARG:H	1.62	0.48
3:IF:86:ARG:NE	3:IF:86:ARG:HA	2.29	0.48
3:IF:426:GLN:NE2	3:IF:427:ASP:OD1	2.47	0.48
2:IG:212:ILE:HG23	2:IG:216:ASN:HD21	1.78	0.48
2:IG:384:ILE:HB	2:IG:388:TRP:CZ3	2.49	0.48
3:IH:52:ASN:OD1	3:IH:62:ARG:NH1	2.47	0.48
3:JD:8:GLN:HB3	3:JD:65:LEU:HD13	1.96	0.48
3:JD:246:LEU:HD22	3:JD:354:CYS:HA	1.95	0.48
2:JG:416:GLY:O	2:JG:420:GLU:HG2	2.13	0.48
3:KD:187:LEU:HD11	3:KD:408:PHE:CE1	2.49	0.48
3:KD:275:SER:H	3:KD:278:SER:HG	1.62	0.48
2:KE:116:ASP:OD1	2:KE:117:LEU:N	2.43	0.48
15:L2:76:LYS:HG2	2:LE:414:GLU:HG3	1.96	0.48
15:L3:66:HIS:CE1	3:LH:194:GLU:HA	2.49	0.48
3:LD:318:ARG:HD3	3:LD:358:PRO:HD3	1.95	0.48
3:LF:86:ARG:HD2	3:MF:282:ARG:HH21	1.78	0.48
2:LI:147:SER:HB2	2:LI:190:THR:HG21	1.96	0.48
2:MG:339:ARG:HD2	18:O2:25:ALA:O	2.12	0.48
3:MH:325:GLU:HB3	2:MI:221:ARG:NH1	2.29	0.48
3:ND:204:ASN:HB2	3:ND:208:TYR:CZ	2.48	0.48
3:NF:238:THR:HA	3:NF:241:ARG:HG2	1.94	0.48
2:NG:119:LEU:HA	2:NG:122:ILE:HG12	1.96	0.48
2:NI:213:CYS:HA	2:NI:217:LEU:HB2	1.94	0.48
2:OE:385:ALA:HA	2:OE:388:TRP:HE3	1.78	0.48
3:OF:282:ARG:NH2	3:OF:292:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:8:HIS:CD2	2:OI:138:PHE:HD2	2.31	0.48
2:OI:88:HIS:HB3	2:OI:91:GLN:CB	2.43	0.48
2:OI:245:ASP:OD1	2:OI:249:ASN:ND2	2.46	0.48
19:P2:44:GLY:HA3	19:P2:587:SER:CB	2.43	0.48
2:PE:390:ARG:HG2	2:PE:391:LEU:HD23	1.96	0.48
3:PF:226:ASN:HA	3:PF:229:VAL:HG22	1.96	0.48
2:PG:311:LYS:H	2:PG:382:THR:H	1.62	0.48
3:PH:12:CYS:HA	25:PH:501:GTP:HN22	1.78	0.48
3:PH:375:GLN:HA	3:PH:378:PHE:CE2	2.48	0.48
3:QF:47:ILE:HG21	3:QF:59:TYR:CE1	2.48	0.48
3:QF:247:ASN:HD22	3:QF:252:LYS:HE3	1.78	0.48
3:QH:273:LEU:H	3:QH:292:GLN:NE2	2.11	0.48
2:RE:220:GLU:HG2	2:RE:221:ARG:HG2	1.96	0.48
3:RF:321:MET:HG2	3:RF:363:MET:SD	2.54	0.48
2:RI:114:ILE:O	2:RI:117:LEU:HG	2.14	0.48
2:RI:346:TRP:HB3	3:RJ:391:ARG:HD2	1.95	0.48
3:SF:174:LYS:N	3:SF:205:GLU:OE2	2.45	0.48
3:SF:374:ILE:HD12	3:SF:374:ILE:H	1.78	0.48
2:SG:166:LYS:HG3	2:SG:168:GLU:OE2	2.13	0.48
2:SG:427:ALA:HA	2:SG:430:LYS:HG2	1.95	0.48
3:SH:191:GLN:HE21	3:SH:195:ASN:HD22	1.60	0.48
2:SI:216:ASN:ND2	2:SI:275:VAL:O	2.47	0.48
3:TF:345:ILE:HD11	2:TG:181:VAL:HG11	1.94	0.48
3:TH:66:VAL:HG23	3:TH:91:VAL:HG13	1.94	0.48
2:TI:26:LEU:HG	2:TI:363:VAL:HG23	1.95	0.48
3:TJ:111:GLU:OE1	3:TJ:111:GLU:N	2.46	0.48
3:TJ:394:PHE:HA	3:TJ:397:TRP:HZ3	1.78	0.48
3:UF:11:GLN:HE21	25:UF:501:GTP:H3'	1.78	0.48
3:UF:234:SER:O	3:UF:238:THR:HG23	2.14	0.48
2:UG:55:GLU:HA	2:UG:60:LYS:O	2.13	0.48
2:VE:186:ASN:O	2:VE:190:THR:HG23	2.13	0.48
3:VF:132:GLY:HA3	3:VF:163:ILE:HB	1.96	0.48
2:VG:414:GLU:HG2	2:VG:417:GLU:OE1	2.14	0.48
2:WE:397:LEU:O	2:WE:401:LYS:HG2	2.12	0.48
3:WF:228:LEU:O	3:WF:232:THR:HG23	2.14	0.48
2:WG:117:LEU:HD12	22:XD:6:PHE:CE2	2.48	0.48
2:WG:344:VAL:HG23	2:WG:347:CYS:H	1.78	0.48
22:XE:14:LEU:HB2	22:XE:25:TRP:CZ2	2.48	0.48
23:XL:177:ILE:O	23:XL:180:ILE:HG22	2.13	0.48
24:YM:49:VAL:O	24:YM:53:MET:HG3	2.12	0.48
24:YM:50:GLN:HA	24:YM:53:MET:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:47:GLU:HA	24:YN:50:GLN:OE1	2.13	0.48
1:A2:281:HIS:HA	1:A2:284:LYS:HZ2	1.79	0.48
2:AG:402:ARG:NH2	23:XJ:185:LYS:HE2	2.29	0.48
4:B2:282:GLN:HE22	4:B3:25:SER:HA	1.78	0.48
4:B7:39:ARG:CZ	4:B8:293:LEU:HB2	2.44	0.48
2:BE:413:MET:HG3	2:BE:414:GLU:N	2.29	0.48
2:BG:427:ALA:HA	2:BG:430:LYS:HG2	1.94	0.48
3:BH:328:GLU:OE1	3:BH:332:ASN:ND2	2.44	0.48
3:CH:213:ARG:NH1	3:CH:297:LYS:O	2.46	0.48
3:CH:253:LEU:O	3:CH:257:MET:CB	2.60	0.48
3:CJ:170:VAL:HB	3:CJ:203:ASP:HB2	1.95	0.48
3:CJ:375:GLN:HA	3:CJ:378:PHE:CE2	2.48	0.48
6:D4:339:LEU:O	6:D4:343:ILE:HG12	2.14	0.48
6:D7:320:TYR:HA	6:D7:323:ARG:NH2	2.28	0.48
6:D8:358:TYR:O	6:D8:361:SER:OG	2.31	0.48
6:D8:372:ASN:HA	6:D8:375:PHE:HD2	1.77	0.48
3:DD:212:PHE:HE1	3:DD:218:THR:HA	1.77	0.48
2:EG:174:ALA:HB3	2:EG:177:VAL:O	2.12	0.48
2:FE:33:ASP:C	2:FE:86:LEU:HD21	2.33	0.48
2:FG:248:LEU:HD11	2:FG:353:VAL:HG13	1.96	0.48
9:G2:524:SER:O	9:G2:528:LEU:HG	2.14	0.48
3:GD:189:VAL:HA	3:GD:192:LEU:HB2	1.96	0.48
2:GE:187:SER:O	2:GE:191:THR:HG23	2.14	0.48
2:GE:230:LEU:O	2:GE:233:GLN:HG3	2.14	0.48
2:GG:243:ARG:HD3	2:GG:244:PHE:N	2.28	0.48
11:H3:12:PRO:O	11:H3:13:GLU:C	2.52	0.48
2:HE:388:TRP:HB3	2:HE:429:GLU:OE2	2.14	0.48
3:HF:113:VAL:HA	3:HF:116:VAL:HG22	1.95	0.48
2:HG:279:GLU:OE1	2:HG:279:GLU:N	2.38	0.48
3:HH:289:LEU:O	3:HH:293:MET:HG2	2.14	0.48
3:IH:2:ARG:HA	3:IH:129:CYS:O	2.14	0.48
3:JD:42:LEU:HD13	3:JD:243:PRO:HG2	1.95	0.48
3:JF:70:PRO:HA	3:JF:73:MET:SD	2.54	0.48
2:JG:258:ASN:HB3	2:JG:352:LYS:HG3	1.95	0.48
3:JH:21:TRP:CZ2	3:JH:63:ALA:HB2	2.49	0.48
14:K2:403:ARG:NH2	16:M2:59:PRO:HD3	2.29	0.48
14:K3:380:GLY:HA3	16:M3:51:MET:HE1	1.93	0.48
3:KD:324:LYS:HE2	2:KE:222:PRO:CD	2.43	0.48
2:KE:10:GLY:O	2:KE:14:VAL:HG13	2.14	0.48
3:KF:3:GLU:HG2	3:KF:130:LEU:HD23	1.95	0.48
3:KF:83:GLN:O	3:KF:86:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KG:90:GLU:OE2	2:LG:280:LYS:HE2	2.13	0.48
3:LF:97:ALA:HA	3:LF:103:LYS:HZ1	1.79	0.48
3:LF:156:ARG:NH1	3:LF:195:ASN:HA	2.29	0.48
3:LF:318:ARG:HB3	3:LF:364:SER:OG	2.13	0.48
2:LG:201:ALA:H	2:LG:266:HIS:HD2	1.62	0.48
3:LH:324:LYS:HE2	2:LI:222:PRO:HG2	1.96	0.48
2:MI:70:LEU:HB3	2:MI:97:GLU:O	2.13	0.48
3:ND:253:LEU:O	3:ND:257:MET:HG2	2.14	0.48
3:ND:375:GLN:HA	3:ND:378:PHE:CE1	2.48	0.48
2:NE:31:GLN:NE2	2:NE:37:PRO:HD3	2.28	0.48
2:NI:9:VAL:HA	2:NI:68:VAL:HG23	1.96	0.48
2:NI:85:GLN:OE1	2:NI:85:GLN:N	2.34	0.48
2:NI:395:PHE:HD2	2:NI:422:ARG:HD3	1.77	0.48
2:OG:2:ARG:NH1	2:OG:241:SER:O	2.47	0.48
2:OG:189:LEU:HA	2:OG:192:HIS:HE1	1.78	0.48
3:OH:302:ALA:HB1	3:OH:377:LEU:HD21	1.96	0.48
19:P1:244:PRO:C	19:P1:246:LYS:N	2.66	0.48
19:P1:434:SER:HG	19:P1:444:TRP:HZ3	1.58	0.48
3:PF:4:ILE:HD11	3:PF:131:GLN:HB2	1.96	0.48
3:PH:15:GLN:NE2	25:PH:501:GTP:C2	2.81	0.48
3:PH:47:ILE:HD11	3:PH:51:TYR:CD2	2.49	0.48
2:PI:126:ALA:HA	2:PI:129:CYS:SG	2.54	0.48
3:QF:190:HIS:O	3:QF:193:VAL:HG12	2.14	0.48
3:QF:322:SER:HB3	3:QF:325:GLU:OE1	2.13	0.48
2:QG:119:LEU:HD11	2:QG:156:ARG:HG2	1.96	0.48
2:QG:129:CYS:SG	2:QG:132:LEU:HD12	2.53	0.48
3:QH:403:MET:HE3	3:QH:403:MET:HB3	1.58	0.48
2:QI:174:ALA:HB3	2:QI:177:VAL:O	2.14	0.48
2:QI:239:THR:OG1	2:QI:243:ARG:NH1	2.43	0.48
2:RG:327:ASP:OD1	2:RG:328:VAL:N	2.47	0.48
2:RI:189:LEU:HA	2:RI:192:HIS:CE1	2.48	0.48
3:RJ:246:LEU:HB3	3:RJ:353:VAL:H	1.76	0.48
2:SG:47:ASP:H	2:SG:50:ASN:HB3	1.79	0.48
2:SG:171:ILE:HD12	2:SG:204:VAL:HG13	1.95	0.48
2:SI:47:ASP:HB3	2:SI:49:PHE:CE1	2.48	0.48
2:SI:285:GLN:NE2	2:SI:286:LEU:O	2.46	0.48
2:TG:192:HIS:CE1	2:TG:193:THR:HG23	2.49	0.48
3:TJ:150:LEU:HB3	3:TJ:154:LYS:HZ1	1.79	0.48
3:UD:52:ASN:ND2	3:UD:62:ARG:HD3	2.29	0.48
3:UD:61:PRO:HD3	3:UD:84:ILE:HG13	1.94	0.48
3:UD:320:ARG:H	3:UD:363:MET:CE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:259:LEU:HD13	2:UE:314:ALA:HB1	1.96	0.48
2:UG:31:GLN:NE2	2:UG:37:PRO:HD3	2.28	0.48
2:UG:116:ASP:N	2:UG:116:ASP:OD1	2.45	0.48
2:UG:176:GLN:NE2	2:UG:177:VAL:HG23	2.29	0.48
3:VD:54:ALA:HB3	3:VD:58:LYS:HG3	1.94	0.48
3:VD:330:MET:SD	3:VD:349:VAL:HG21	2.54	0.48
3:VD:334:GLN:O	3:VD:338:SER:OG	2.23	0.48
2:VE:88:HIS:HE1	2:VE:90:GLU:HG2	1.79	0.48
3:VF:249:ASP:O	3:VF:252:LYS:HB2	2.13	0.48
3:VF:378:PHE:HA	3:VF:381:ILE:HG22	1.94	0.48
2:VG:22:GLU:O	2:VG:26:LEU:HD23	2.14	0.48
2:VG:88:HIS:O	2:VG:91:GLN:HG3	2.12	0.48
2:VG:307:PRO:HB2	2:VG:312:TYR:OH	2.13	0.48
3:VH:3:GLU:HG2	3:VH:130:LEU:HD23	1.96	0.48
2:WE:36:MET:HG3	2:WE:41:THR:OG1	2.12	0.48
2:WE:228:ASN:HA	2:WE:231:ILE:HG22	1.96	0.48
2:WE:345:ASP:N	2:WE:345:ASP:OD1	2.44	0.48
2:WG:168:GLU:OE1	2:WG:198:SER:OG	2.30	0.48
2:WG:172:TYR:HB2	2:WG:203:MET:HB2	1.95	0.48
2:WG:224:TYR:HA	2:WG:227:LEU:HB2	1.95	0.48
2:WI:392:ASP:OD1	2:WI:393:HIS:N	2.47	0.48
22:XE:84:LYS:HZ2	23:XK:238:CYS:C	2.16	0.48
24:YL:41:ARG:HH22	24:YL:45:SER:H	1.62	0.48
24:YM:61:THR:O	24:YM:65:ILE:HG12	2.13	0.48
2:AE:353:VAL:HG12	3:AF:177:ASP:CG	2.34	0.48
2:AE:427:ALA:HA	2:AE:430:LYS:HG2	1.96	0.48
2:AG:176:GLN:HB3	2:AG:390:ARG:HH22	1.79	0.48
2:AG:207:GLU:HA	2:AG:210:TYR:CD2	2.48	0.48
2:AG:387:ALA:O	2:AG:390:ARG:HB2	2.13	0.48
3:AH:11:GLN:HG3	25:AH:501:GTP:O5'	2.14	0.48
4:B3:88:GLU:OE2	4:B3:240:ARG:NH2	2.47	0.48
4:B7:194:LEU:HB3	4:B8:313:LEU:HD22	1.96	0.48
4:B7:196:SER:O	4:B7:199:ILE:HG12	2.14	0.48
4:B8:281:TRP:HD1	4:B8:282:GLN:NE2	2.11	0.48
2:BE:3:GLU:N	2:BE:133:GLN:OE1	2.46	0.48
2:BE:326:LYS:HG3	3:BF:220:PRO:HD2	1.96	0.48
2:BE:332:ILE:HD11	3:BF:175:VAL:HG11	1.94	0.48
2:BG:185:TYR:OH	2:BG:398:MET:HB3	2.14	0.48
3:BH:12:CYS:H	25:BH:501:GTP:PA	2.36	0.48
3:BH:39:ASP:OD1	3:BH:43:GLN:NE2	2.47	0.48
3:BH:42:LEU:CD2	11:H4:6:LYS:HZ2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:234:ILE:O	2:BI:237:SER:OG	2.25	0.48
2:BI:392:ASP:OD1	2:BI:393:HIS:N	2.46	0.48
5:C2:131:LYS:HA	5:C2:134:GLN:HE21	1.78	0.48
5:C7:268:ASP:HA	5:C7:271:CYS:SG	2.54	0.48
3:CF:405:GLU:O	3:CF:409:THR:HG23	2.14	0.48
3:CH:56:GLY:H	11:H4:230:TRP:HE1	1.61	0.48
6:D3:320:TYR:O	6:D3:324:LYS:NZ	2.46	0.48
6:D7:360:ARG:HH12	6:D7:366:VAL:HG21	1.78	0.48
6:D9:73:TYR:O	6:D9:76:ARG:HG3	2.14	0.48
6:D9:75:GLU:HA	6:D9:78:ARG:NE	2.23	0.48
3:DD:349:VAL:O	3:DD:350:LYS:NZ	2.44	0.48
2:DE:36:MET:HG3	2:DE:41:THR:OG1	2.13	0.48
2:DE:320:ARG:HG2	2:DE:358:GLN:O	2.13	0.48
3:DF:328:GLU:OE1	3:DF:332:ASN:ND2	2.46	0.48
2:DG:214:ARG:NH1	2:DG:215:ARG:HG3	2.28	0.48
3:ED:299:MET:HE2	3:ED:305:PRO:HD3	1.95	0.48
3:EH:117:LEU:HB3	3:EH:121:ARG:HH22	1.79	0.48
3:EH:131:GLN:HB3	3:EH:163:ILE:HD12	1.94	0.48
3:EH:275:SER:N	3:EH:278:SER:OG	2.47	0.48
3:EH:302:ALA:HB2	3:EH:377:LEU:HD21	1.95	0.48
8:F2:232:LEU:HD23	8:F2:235:ARG:NH2	2.27	0.48
8:F3:300:SER:O	8:F3:304:ILE:HG23	2.13	0.48
8:F7:228:GLN:HA	8:F7:231:LYS:HE2	1.94	0.48
3:FD:255:VAL:HG21	2:FE:100:ALA:HB1	1.95	0.48
3:FF:52:ASN:CG	3:FF:62:ARG:HD3	2.34	0.48
2:FG:189:LEU:HA	2:FG:192:HIS:CD2	2.48	0.48
9:G1:262:TYR:CD1	9:G1:277:GLU:HA	2.46	0.48
9:G2:391:GLU:N	9:G2:391:GLU:OE1	2.44	0.48
10:G5:33:ARG:HH12	3:MH:92:PHE:C	2.14	0.48
3:GD:11:GLN:HG3	25:GD:501:GTP:PA	2.54	0.48
2:GE:188:ILE:HD13	2:GE:395:PHE:HZ	1.79	0.48
3:GH:313:VAL:HG23	3:GH:349:VAL:HG23	1.95	0.48
3:GH:374:ILE:HG22	3:GH:378:PHE:CD2	2.49	0.48
2:GI:235:VAL:O	2:GI:238:ILE:HG12	2.13	0.48
2:HE:414:GLU:OE1	2:HE:415:GLU:N	2.47	0.48
3:HH:11:GLN:HA	3:HH:14:ASN:HD22	1.77	0.48
2:HI:326:LYS:HA	2:HI:329:ASN:HD21	1.79	0.48
3:IF:249:ASP:CG	3:IF:251:ARG:HB2	2.34	0.48
13:J2:122:LYS:HG3	13:J2:123:TYR:CD1	2.48	0.48
3:JD:114:ASP:OD1	3:JD:115:SER:N	2.45	0.48
3:JF:189:VAL:O	3:JF:193:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:107:THR:OG1	3:JH:401:GLU:OE2	2.25	0.48
3:JH:253:LEU:O	3:JH:257:MET:HG2	2.14	0.48
14:K2:405:VAL:HG22	16:M2:60:TRP:CD1	2.47	0.48
14:K3:392:LYS:HZ3	14:K3:393:LEU:HB3	1.79	0.48
14:K3:411:GLU:O	14:K3:414:ARG:HG3	2.12	0.48
3:KD:173:PRO:HA	3:KD:380:ARG:NH2	2.28	0.48
3:KD:192:LEU:O	3:KD:196:THR:HG22	2.13	0.48
3:KF:8:GLN:OE1	3:KF:17:GLY:HA3	2.13	0.48
2:KG:230:LEU:O	2:KG:233:GLN:HG3	2.14	0.48
2:KG:244:PHE:CZ	2:KG:358:GLN:HG2	2.48	0.48
3:LD:286:VAL:HG21	3:LD:325:GLU:HG3	1.96	0.48
3:LF:290:THR:O	3:LF:293:MET:HB3	2.14	0.48
3:LF:323:MET:HA	3:LF:326:VAL:HG12	1.95	0.48
2:LG:102:ASN:ND2	2:LG:105:ARG:HB2	2.28	0.48
2:LG:129:CYS:O	18:O2:20:GLN:HG2	2.13	0.48
2:LG:162:GLY:O	18:O2:78:LYS:NZ	2.38	0.48
2:LG:209:ILE:HG21	2:LG:227:LEU:HG	1.96	0.48
2:LG:251:ASP:HB3	2:LG:254:GLU:OE1	2.14	0.48
2:LG:362:VAL:HA	2:LG:368:LEU:HD21	1.96	0.48
2:LI:235:VAL:O	2:LI:238:ILE:HG12	2.14	0.48
2:ME:30:ILE:HD13	2:ME:36:MET:HE3	1.96	0.48
2:ME:115:VAL:HA	2:ME:118:VAL:HG22	1.95	0.48
2:ME:292:THR:HG21	2:ME:335:ILE:HD11	1.94	0.48
3:MF:106:TYR:HB2	3:MF:401:GLU:OE2	2.14	0.48
3:MH:52:ASN:OD1	3:MH:62:ARG:NH1	2.44	0.48
3:MH:239:CYS:SG	3:MH:248:ALA:HB2	2.54	0.48
3:MH:249:ASP:OD2	3:MH:251:ARG:HB3	2.14	0.48
3:MH:326:VAL:O	3:MH:330:MET:HG2	2.13	0.48
2:MI:333:ALA:HA	2:MI:336:LYS:HD2	1.96	0.48
2:MI:338:LYS:NZ	2:MI:339:ARG:H	2.12	0.48
2:NE:234:ILE:O	2:NE:237:SER:OG	2.25	0.48
3:NF:222:TYR:HA	3:NF:225:LEU:HD13	1.94	0.48
3:NH:324:LYS:O	3:NH:328:GLU:HG3	2.13	0.48
3:NH:334:GLN:O	3:NH:338:SER:OG	2.20	0.48
3:OD:11:GLN:HG3	25:OD:501:GTP:PA	2.53	0.48
3:OD:405:GLU:HA	3:OD:408:PHE:HD2	1.78	0.48
2:OE:125:LEU:O	2:OE:128:LEU:HG	2.14	0.48
2:OG:125:LEU:O	2:OG:128:LEU:HG	2.14	0.48
2:OG:265:ILE:HD12	2:OG:432:TYR:CE1	2.49	0.48
2:OG:312:TYR:CE2	2:OG:341:ILE:HG23	2.48	0.48
3:OH:19:LYS:O	3:OH:22:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:442:ARG:HG2	19:P1:456:ALA:HA	1.95	0.48
19:P2:430:LYS:HE3	19:P2:431:ARG:HE	1.79	0.48
19:P2:444:TRP:CE2	19:P2:453:LEU:HA	2.48	0.48
3:PF:137:HIS:O	3:PF:168:SER:HA	2.14	0.48
2:PG:285:GLN:NE2	2:PG:286:LEU:O	2.46	0.48
2:PI:120:ASP:OD1	2:PI:123:ARG:NH1	2.46	0.48
3:QF:52:ASN:HB2	3:QF:60:VAL:HG23	1.96	0.48
2:QI:175:PRO:HG2	2:QI:304:LYS:HD3	1.95	0.48
2:RG:326:LYS:HA	2:RG:329:ASN:HD21	1.79	0.48
3:RH:344:TRP:HE3	2:RI:401:LYS:HD2	1.79	0.48
2:RI:295:CYS:O	2:RI:301:GLN:NE2	2.46	0.48
3:RJ:12:CYS:HA	25:RJ:501:GTP:N2	2.28	0.48
2:SE:332:ILE:HA	2:SE:335:ILE:HG12	1.96	0.48
2:SG:280:LYS:HZ1	2:SG:284:GLU:CD	2.15	0.48
2:SG:286:LEU:HD11	2:SG:372:GLN:HB2	1.95	0.48
3:SH:305:PRO:O	3:SH:308:GLY:N	2.46	0.48
2:SI:89:PRO:HB2	2:SI:90:GLU:OE1	2.13	0.48
2:SI:125:LEU:HD13	2:SI:128:LEU:HD11	1.95	0.48
2:SI:211:ASP:HB2	2:SI:215:ARG:HH21	1.79	0.48
3:SJ:407:GLU:HA	3:SJ:410:GLU:OE1	2.13	0.48
2:TI:54:SER:H	2:TI:62:VAL:H	1.60	0.48
2:TI:117:LEU:O	2:TI:121:ARG:HG2	2.13	0.48
2:TI:280:LYS:HZ1	2:TI:284:GLU:CD	2.17	0.48
3:UD:240:LEU:HD22	3:UD:248:ALA:HB1	1.94	0.48
2:UE:337:THR:O	2:UE:339:ARG:HD2	2.14	0.48
3:UH:47:ILE:HG13	3:UH:51:TYR:HB2	1.96	0.48
2:VE:186:ASN:OD1	2:VE:187:SER:N	2.47	0.48
2:VE:273:ALA:HB2	2:VE:295:CYS:HB3	1.96	0.48
2:VG:20:CYS:SG	2:VG:21:TRP:N	2.87	0.48
2:VG:116:ASP:OD1	2:VG:117:LEU:HD12	2.14	0.48
2:VG:248:LEU:HD21	2:VG:354:GLY:HA2	1.96	0.48
2:VG:415:GLU:OE1	2:VG:415:GLU:N	2.44	0.48
2:WE:131:GLY:O	23:XJ:71:HIS:HD2	1.96	0.48
2:WI:21:TRP:HE1	2:WI:63:PRO:HB3	1.79	0.48
2:WI:318:LEU:O	2:WI:375:VAL:HA	2.14	0.48
22:XC:65:PRO:HG2	22:XC:66:LYS:HD2	1.94	0.48
22:XE:22:LEU:HA	22:XE:25:TRP:CD1	2.44	0.48
22:XE:53:ASN:OD1	22:XE:54:VAL:N	2.46	0.48
22:XE:155:GLN:O	22:XE:156:ILE:HD13	2.12	0.48
24:YI:155:SER:HA	24:YI:158:LEU:HG	1.95	0.48
24:YL:96:LEU:HD13	24:YL:151:TRP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:295:ASP:HB2	3:AH:298:ASN:HB2	1.96	0.48
3:AH:375:GLN:NE2	3:AH:422:TYR:HB3	2.29	0.48
4:B2:343:HIS:HA	4:B2:346:GLU:OE1	2.14	0.48
4:B8:333:GLN:HA	4:B8:336:TYR:HD2	1.79	0.48
3:BF:134:GLN:HA	3:BF:165:ASN:O	2.13	0.48
3:BH:114:ASP:OD1	3:BH:115:SER:N	2.46	0.48
3:BH:334:GLN:O	3:BH:338:SER:OG	2.24	0.48
2:BI:234:ILE:HD11	2:BI:272:TYR:HB2	1.95	0.48
5:C2:119:ARG:HG3	5:C2:120:LEU:HD12	1.96	0.48
3:CF:101:TRP:CE3	3:CF:187:LEU:HD13	2.48	0.48
3:CH:227:HIS:CG	10:G5:295:PRO:HB2	2.48	0.48
3:CH:361:LEU:HD22	3:CH:364:SER:HB3	1.96	0.48
3:CH:378:PHE:O	3:CH:381:ILE:HG22	2.14	0.48
2:DE:75:VAL:HA	2:DE:78:VAL:HG22	1.96	0.48
2:DE:166:LYS:N	2:DE:199:ASP:OD2	2.46	0.48
3:DF:30:ILE:HG13	3:DF:36:TYR:HD1	1.79	0.48
3:DF:319:GLY:O	3:DF:355:ASP:HA	2.13	0.48
2:EE:168:GLU:O	2:EE:201:ALA:HA	2.14	0.48
2:EG:15:GLN:OE1	25:EG:501:GTP:C6	2.63	0.48
8:F7:427:LEU:O	8:F7:430:LEU:HG	2.14	0.48
3:FD:50:TYR:O	3:FD:62:ARG:NE	2.38	0.48
3:FD:226:ASN:HA	3:FD:229:VAL:HG12	1.95	0.48
3:FD:309:ARG:O	3:FD:372:THR:N	2.44	0.48
2:FE:396:ASP:N	2:FE:396:ASP:OD1	2.47	0.48
3:FF:217:LEU:O	3:FF:219:THR:N	2.45	0.48
3:FF:330:MET:CG	3:FF:349:VAL:HG11	2.44	0.48
2:FG:33:ASP:OD1	2:FG:35:GLN:N	2.23	0.48
9:G1:273:VAL:O	9:G1:294:ARG:HA	2.14	0.48
10:G5:13:ARG:NH1	10:G5:17:LYS:HB3	2.29	0.48
3:GF:245:GLN:H	3:GF:245:GLN:CD	2.17	0.48
2:GG:2:ARG:NH1	2:GG:242:LEU:O	2.46	0.48
3:GH:36:TYR:CE2	3:GH:38:GLY:HA2	2.49	0.48
2:GI:224:TYR:HB3	2:GI:228:ASN:HD21	1.79	0.48
11:H3:17:ILE:HD12	11:H3:17:ILE:HA	1.62	0.48
11:H4:237:ARG:O	11:H4:241:THR:HG22	2.14	0.48
11:H4:243:ALA:O	11:H4:247:PHE:CB	2.53	0.48
2:HE:35:GLN:HG3	2:HE:60:LYS:HD3	1.96	0.48
2:HG:311:LYS:NZ	2:HG:342:GLN:HB3	2.29	0.48
3:HH:183:TYR:OH	3:HH:388:MET:HG3	2.14	0.48
2:II:397:LEU:O	2:II:401:LYS:HE2	2.14	0.48
2:JE:172:TYR:CD1	2:JE:173:PRO:HD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:317:MET:HB3	2:JE:319:TYR:CE1	2.49	0.48
14:K3:203:LYS:HG2	14:K3:207:LYS:HZ3	1.79	0.48
14:K3:363:ARG:NH2	14:K3:364:CYS:SG	2.87	0.48
3:KD:240:LEU:HD11	3:KD:249:ASP:HA	1.95	0.48
2:KG:325:PRO:O	2:KG:329:ASN:ND2	2.47	0.48
3:KH:311:LEU:HG	3:KH:312:THR:HG23	1.96	0.48
15:L2:220:SER:O	15:L2:224:LYS:NZ	2.38	0.48
15:L3:167:LYS:NZ	15:L3:171:GLU:OE1	2.41	0.48
3:LF:217:LEU:HD11	3:LF:220:PRO:HB3	1.95	0.48
3:LF:217:LEU:O	3:LF:218:THR:OG1	2.26	0.48
3:LH:12:CYS:O	3:LH:16:ILE:HD12	2.14	0.48
3:LH:67:ASP:OD1	3:LH:68:LEU:N	2.45	0.48
2:LI:304:LYS:HD2	2:LI:304:LYS:N	2.29	0.48
2:LI:390:ARG:HG2	2:LI:394:LYS:NZ	2.29	0.48
3:MF:134:GLN:HA	3:MF:165:ASN:O	2.14	0.48
3:MH:83:GLN:O	3:MH:86:ARG:NH2	2.46	0.48
17:N3:89:LYS:O	17:N3:92:ILE:N	2.46	0.48
3:ND:99:ASN:HB2	3:ND:142:GLY:HA3	1.96	0.48
3:NH:324:LYS:NZ	2:NI:222:PRO:O	2.24	0.48
3:NH:378:PHE:HE1	3:NH:419:VAL:HG22	1.79	0.48
2:NI:107:HIS:HA	2:NI:152:LEU:HD22	1.94	0.48
2:OE:260:VAL:O	3:OF:397:TRP:HH2	1.97	0.48
2:OE:402:ARG:HB3	2:OE:402:ARG:CZ	2.43	0.48
3:OF:375:GLN:HA	3:OF:378:PHE:CZ	2.48	0.48
2:OG:55:GLU:HA	2:OG:60:LYS:O	2.13	0.48
3:OH:77:ARG:HA	3:OH:82:GLY:HA3	1.94	0.48
3:OH:229:VAL:O	3:OH:233:MET:HG2	2.13	0.48
19:P1:287:VAL:HG23	19:P1:322:PHE:CE2	2.49	0.48
19:P1:358:VAL:HB	19:P1:368:LEU:HB3	1.94	0.48
2:PG:12:ALA:HB1	25:PG:501:GTP:C5	2.49	0.48
2:PG:279:GLU:HA	24:YK:128:ASP:HB3	1.96	0.48
2:PI:27:GLU:HB3	2:PI:361:THR:HG21	1.96	0.48
2:PI:118:VAL:O	2:PI:122:ILE:HG12	2.14	0.48
2:QG:402:ARG:HB2	2:QG:405:VAL:HG21	1.95	0.48
3:QH:21:TRP:HA	3:QH:24:ILE:HD12	1.95	0.48
3:QH:134:GLN:HA	3:QH:165:ASN:O	2.13	0.48
2:QI:390:ARG:HG3	2:QI:393:HIS:CE1	2.41	0.48
2:QI:422:ARG:O	2:QI:425:LEU:HG	2.14	0.48
2:RE:76:ASP:OD1	2:RE:79:ARG:NH1	2.47	0.48
2:RE:208:ALA:N	2:RE:304:LYS:HZ1	2.03	0.48
2:RE:321:GLY:HA3	2:RE:372:GLN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:376:GLU:HA	3:RF:379:LYS:HG2	1.95	0.48
2:RI:326:LYS:NZ	3:RJ:208:TYR:HA	2.28	0.48
3:RJ:418:LEU:HD13	3:RJ:421:GLU:OE2	2.14	0.48
2:SE:312:TYR:HE2	2:SE:341:ILE:HD12	1.78	0.48
3:SF:272:PRO:HA	3:SF:292:GLN:HE22	1.78	0.48
3:SF:391:ARG:O	3:SF:391:ARG:HG3	2.14	0.48
2:SG:220:GLU:O	2:SG:221:ARG:NH1	2.47	0.48
2:SG:250:VAL:HB	2:SG:255:PHE:HE1	1.78	0.48
2:SI:90:GLU:HG2	2:SI:121:ARG:NH1	2.28	0.48
2:SI:208:ALA:H	2:SI:304:LYS:NZ	2.09	0.48
3:SJ:12:CYS:SG	25:SJ:501:GTP:H5'	2.53	0.48
3:SJ:164:MET:HG2	3:SJ:164:MET:O	2.14	0.48
3:SJ:197:ASP:OD1	3:SJ:198:GLU:N	2.43	0.48
2:TG:210:TYR:HE1	2:TG:227:LEU:HD11	1.78	0.48
2:UE:24:TYR:OH	2:UE:235:VAL:HG13	2.14	0.48
3:UF:325:GLU:HA	3:UF:328:GLU:HG3	1.95	0.48
2:UG:135:PHE:O	2:UG:167:LEU:HB2	2.14	0.48
3:VD:4:ILE:HD11	3:VD:131:GLN:HB2	1.96	0.48
3:VF:172:SER:OG	3:VF:205:GLU:OE2	2.20	0.48
2:VG:70:LEU:HB3	2:VG:97:GLU:O	2.13	0.48
2:WG:12:ALA:HB1	25:WG:501:GTP:C2	2.49	0.48
3:WH:30:ILE:HG13	3:WH:36:TYR:HD1	1.79	0.48
3:WH:313:VAL:HB	3:WH:367:PHE:HE1	1.78	0.48
22:XD:1:MET:N	22:XD:69:LEU:O	2.45	0.48
22:XD:94:LEU:HD11	22:XD:98:ASN:C	2.34	0.48
23:XK:210:GLN:O	23:XK:214:GLU:HG3	2.14	0.48
24:YJ:121:VAL:O	24:YJ:125:LEU:HG	2.14	0.48
3:AH:45:GLU:HG3	3:AH:46:ARG:HG2	1.96	0.48
3:BF:52:ASN:OD1	3:BF:62:ARG:NH1	2.46	0.48
2:BG:168:GLU:O	2:BG:201:ALA:HA	2.13	0.48
5:C3:345:LEU:HD11	7:E2:178:PHE:CG	2.49	0.48
5:C7:131:LYS:O	5:C7:134:GLN:HG3	2.14	0.48
5:C7:226:ILE:HA	5:C7:336:MET:HE3	1.95	0.48
5:C8:229:CYS:O	5:C8:233:MET:HG2	2.14	0.48
5:C8:471:GLU:HB3	6:D8:164:HIS:CE1	2.49	0.48
3:CF:403:MET:HG2	3:CF:404:ASP:H	1.77	0.48
2:CG:84:ARG:CZ	11:H3:212:LEU:HB2	2.44	0.48
2:CG:393:HIS:CE1	2:CG:394:LYS:HE3	2.49	0.48
3:CH:114:ASP:N	3:CH:114:ASP:OD1	2.46	0.48
3:CH:246:LEU:HD13	3:CH:353:VAL:C	2.33	0.48
2:CI:116:ASP:N	2:CI:116:ASP:OD1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:165:SER:C	2:CI:166:LYS:HD2	2.35	0.48
2:CI:401:LYS:O	2:CI:402:ARG:HD3	2.14	0.48
3:CJ:228:LEU:O	3:CJ:232:THR:HG23	2.13	0.48
6:D3:439:SER:H	6:D3:442:GLN:HE21	1.60	0.48
6:D8:371:ASP:OD1	6:D8:374:GLN:NE2	2.30	0.48
3:DD:233:MET:O	3:DD:236:VAL:HG12	2.14	0.48
3:DF:48:ASN:HD21	11:H4:288:PHE:H	1.60	0.48
3:DF:224:ASP:O	3:DF:228:LEU:HG	2.14	0.48
2:DG:279:GLU:HG2	11:H4:237:ARG:NH2	2.17	0.48
3:DH:314:ALA:HA	3:DH:350:LYS:O	2.14	0.48
3:ED:239:CYS:HA	3:ED:246:LEU:HD11	1.96	0.48
3:ED:375:GLN:NE2	3:ED:422:TYR:HB3	2.28	0.48
2:EE:16:ILE:HG23	25:EE:501:GTP:HN21	1.79	0.48
3:EF:372:THR:HB	3:EF:375:GLN:NE2	2.26	0.48
3:FD:119:VAL:O	3:FD:122:LYS:HG2	2.14	0.48
2:FE:338:LYS:NZ	2:FE:339:ARG:H	2.11	0.48
3:FF:277:GLY:O	3:FF:280:GLN:NE2	2.47	0.48
2:FG:226:ASN:HD22	2:FG:229:ARG:HH21	1.62	0.48
3:FH:40:SER:O	3:FH:43:GLN:HG2	2.14	0.48
3:GF:40:SER:HB2	3:GF:43:GLN:CD	2.35	0.48
3:GF:178:THR:HG23	3:GF:181:GLU:HB2	1.95	0.48
11:H3:292:MET:O	11:H3:295:ASN:N	2.38	0.48
2:HG:69:ASP:N	2:HG:69:ASP:OD1	2.47	0.48
2:IG:224:TYR:HB3	2:IG:228:ASN:ND2	2.29	0.48
2:IG:245:ASP:O	2:IG:356:ASN:ND2	2.47	0.48
2:IG:390:ARG:HA	2:IG:393:HIS:ND1	2.29	0.48
2:II:99:ALA:HB3	2:II:144:GLY:O	2.13	0.48
2:JE:121:ARG:O	2:JE:124:LYS:HG2	2.12	0.48
2:JE:420:GLU:HA	2:JE:423:GLU:OE2	2.14	0.48
3:JF:292:GLN:HG2	3:JF:298:ASN:ND2	2.28	0.48
3:JF:330:MET:CG	3:JF:349:VAL:HG21	2.43	0.48
2:JG:417:GLU:OE1	2:JG:417:GLU:N	2.26	0.48
14:K4:108:ARG:HA	14:K4:108:ARG:HD3	1.56	0.48
2:KE:118:VAL:O	2:KE:122:ILE:HG12	2.14	0.48
2:KE:274:PRO:HG3	2:KE:374:ALA:HA	1.96	0.48
2:KE:352:LYS:NZ	3:KF:178:THR:HA	2.28	0.48
3:KF:228:LEU:O	3:KF:232:THR:HG23	2.14	0.48
2:KG:8:HIS:HB2	2:KG:67:PHE:CD1	2.49	0.48
3:KH:346:PRO:HG2	2:KI:394:LYS:HZ2	1.78	0.48
2:KI:117:LEU:O	2:KI:121:ARG:HG2	2.14	0.48
15:L3:62:PHE:CZ	3:LH:407:GLU:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:350:LYS:NZ	2:LE:181:VAL:HG13	2.29	0.48
3:LF:113:VAL:HA	3:LF:116:VAL:HG22	1.96	0.48
3:LF:380:ARG:O	3:LF:384:GLN:HG2	2.14	0.48
2:LG:3:GLU:CD	2:LG:132:LEU:H	2.16	0.48
2:LG:15:GLN:NE2	2:LG:224:TYR:CD2	2.81	0.48
3:MF:114:ASP:N	3:MF:114:ASP:OD1	2.46	0.48
2:MG:329:ASN:HA	2:MG:332:ILE:HG22	1.96	0.48
3:MH:19:LYS:O	3:MH:22:GLU:HG3	2.14	0.48
3:MH:207:LEU:HB3	3:MH:225:LEU:HG	1.96	0.48
3:MH:211:CYS:O	3:MH:215:LEU:HB2	2.14	0.48
3:MH:213:ARG:NH1	3:MH:297:LYS:O	2.47	0.48
2:MI:32:PRO:O	2:MI:85:GLN:NE2	2.36	0.48
2:MI:388:TRP:CD1	2:MI:425:LEU:HD12	2.49	0.48
3:ND:213:ARG:HG2	3:ND:297:LYS:HE3	1.95	0.48
2:NE:129:CYS:SG	2:NE:132:LEU:HB2	2.54	0.48
2:NE:138:PHE:CE1	2:NE:169:PHE:HD2	2.32	0.48
2:NE:209:ILE:HG21	2:NE:227:LEU:HG	1.96	0.48
3:NF:239:CYS:HB2	3:NF:248:ALA:HA	1.96	0.48
2:NG:247:ALA:HB3	2:NG:355:ILE:HB	1.96	0.48
3:NH:30:ILE:HG13	3:NH:36:TYR:CD2	2.49	0.48
3:NH:81:PHE:HD1	3:NH:84:ILE:HG13	1.78	0.48
3:NH:319:GLY:O	3:NH:355:ASP:HA	2.14	0.48
3:OD:39:ASP:OD1	3:OD:39:ASP:N	2.47	0.48
2:OE:139:HIS:HE1	2:OE:168:GLU:HB3	1.78	0.48
3:OF:20:PHE:O	3:OF:24:ILE:HG12	2.14	0.48
3:OF:206:ALA:O	3:OF:210:ILE:HG12	2.14	0.48
2:OG:116:ASP:O	2:OG:119:LEU:HG	2.14	0.48
2:OG:171:ILE:HD12	2:OG:204:VAL:HG13	1.94	0.48
2:OG:219:ILE:HG22	2:OG:222:PRO:HD3	1.96	0.48
3:OH:197:ASP:OD1	3:OH:198:GLU:N	2.47	0.48
3:OH:270:PHE:CG	3:OH:271:ALA:N	2.82	0.48
2:OI:247:ALA:HB3	2:OI:355:ILE:HB	1.95	0.48
2:OI:273:ALA:HB2	2:OI:295:CYS:HB3	1.96	0.48
19:P1:205:LYS:H	19:P1:206:ARG:NH1	2.12	0.48
19:P1:559:HIS:HE1	19:P1:580:THR:HG21	1.78	0.48
19:P2:253:VAL:HG13	19:P2:266:VAL:HG13	1.96	0.48
2:PE:208:ALA:HB3	2:PE:302:MET:SD	2.54	0.48
3:PF:6:HIS:HB3	3:PF:21:TRP:HZ2	1.78	0.48
3:PH:12:CYS:SG	3:PH:13:GLY:N	2.87	0.48
2:PI:80:THR:O	24:YM:124:HIS:ND1	2.47	0.48
2:QE:125:LEU:HD13	2:QE:128:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:317:MET:HA	2:QE:376:CYS:O	2.13	0.48
2:QG:68:VAL:HG12	2:QG:93:ILE:HB	1.95	0.48
2:QG:371:VAL:HG11	2:QG:374:ALA:HB2	1.95	0.48
2:RE:10:GLY:O	2:RE:14:VAL:HG13	2.14	0.48
2:RE:101:ASN:HA	2:RE:144:GLY:O	2.14	0.48
2:RE:139:HIS:CE1	2:RE:168:GLU:HB3	2.49	0.48
2:RG:192:HIS:CE1	2:RG:193:THR:HG23	2.49	0.48
2:RG:252:LEU:HD12	2:RG:253:THR:N	2.28	0.48
3:RH:162:ARG:HA	3:RH:162:ARG:HD3	1.69	0.48
3:RH:198:GLU:OE2	3:RH:200:TYR:CD1	2.67	0.48
2:RI:202:PHE:CD1	2:RI:268:PRO:HD2	2.49	0.48
3:RJ:6:HIS:HD2	3:RJ:134:GLN:HG2	1.78	0.48
3:RJ:40:SER:O	3:RJ:43:GLN:HG2	2.13	0.48
2:SE:139:HIS:O	2:SE:170:ALA:HA	2.14	0.48
3:SF:165:ASN:OD1	3:SF:166:THR:N	2.47	0.48
3:SF:374:ILE:HG22	3:SF:378:PHE:CD2	2.48	0.48
2:SI:208:ALA:HB2	2:SI:304:LYS:HE3	1.96	0.48
3:SJ:198:GLU:HA	3:SJ:266:PHE:CE2	2.43	0.48
3:SJ:378:PHE:CE1	3:SJ:419:VAL:HG22	2.49	0.48
3:TF:292:GLN:HA	3:TF:295:ASP:OD2	2.14	0.48
2:TG:386:GLU:HA	2:TG:389:ALA:HB3	1.95	0.48
3:TJ:137:HIS:O	3:TJ:168:SER:HA	2.13	0.48
2:UE:136:LEU:HG	2:UE:169:PHE:CE2	2.49	0.48
2:UE:293:ASN:O	2:UE:297:GLU:HB2	2.14	0.48
3:UF:164:MET:SD	3:UF:196:THR:HA	2.54	0.48
2:UG:256:GLN:O	2:UG:260:VAL:HG12	2.14	0.48
3:UH:2:ARG:HB3	3:UH:131:GLN:NE2	2.29	0.48
3:UH:284:LEU:HD11	3:UH:363:MET:HB2	1.95	0.48
3:VD:218:THR:O	3:VD:220:PRO:HD3	2.14	0.48
2:VG:11:GLN:HB3	2:VG:69:ASP:OD2	2.14	0.48
2:VG:51:THR:HG21	2:VG:242:LEU:CD2	2.44	0.48
2:WE:98:ASP:N	2:WE:98:ASP:OD1	2.47	0.48
3:WF:218:THR:O	3:WF:220:PRO:HD3	2.14	0.48
2:WG:224:TYR:CE2	25:WG:501:GTP:C6	3.02	0.48
2:WG:252:LEU:HD12	2:WG:253:THR:N	2.29	0.48
2:WI:338:LYS:NZ	2:WI:339:ARG:H	2.12	0.48
22:XD:169:ASP:OD2	22:XD:172:TYR:OH	2.28	0.48
24:YI:53:MET:HA	24:YI:63:ARG:NH2	2.26	0.48
24:YI:83:PHE:HD2	24:YI:97:LEU:HD23	1.79	0.48
1:A2:81:LEU:O	1:A2:84:LEU:HG	2.14	0.47
2:AG:90:GLU:HG2	2:AG:121:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:173:PRO:HA	3:AH:380:ARG:NH2	2.29	0.47
2:AI:165:SER:OG	2:AI:252:LEU:HD13	2.13	0.47
4:B3:63:ARG:O	4:B3:66:GLU:HG3	2.13	0.47
4:B3:65:ALA:O	4:B3:68:ILE:HG22	2.14	0.47
4:B3:219:ASP:OD2	4:B3:223:ARG:NH2	2.46	0.47
2:BG:107:HIS:HD2	2:BG:148:GLY:O	1.98	0.47
5:C3:202:ARG:HG3	5:C3:205:ARG:NH2	2.29	0.47
5:C4:391:ALA:O	5:C4:394:LYS:HB3	2.14	0.47
5:C8:443:ASP:HA	5:C8:446:GLN:OE1	2.14	0.47
2:CG:1:MET:HG3	2:CG:2:ARG:N	2.26	0.47
6:D3:138:LEU:HD22	6:D3:194:ILE:HD13	1.96	0.47
6:D3:185:ASN:O	6:D3:188:GLU:HG3	2.14	0.47
6:D4:376:ARG:O	6:D4:380:GLU:HG2	2.14	0.47
3:DD:2:ARG:HH21	2:DE:97:GLU:HG3	1.78	0.47
2:DE:47:ASP:O	2:DE:49:PHE:N	2.47	0.47
2:DE:224:TYR:HE2	25:DE:501:GTP:O6	1.97	0.47
3:DF:130:LEU:HB2	3:DF:162:ARG:NH1	2.29	0.47
2:DG:25:CYS:SG	2:DG:26:LEU:HD22	2.53	0.47
3:DH:317:PHE:HB2	3:DH:353:VAL:HG22	1.96	0.47
3:EF:316:VAL:HB	3:EF:366:THR:HG22	1.95	0.47
2:EG:11:GLN:HB3	25:EG:501:GTP:O1B	2.14	0.47
3:FF:207:LEU:HD22	3:FF:300:MET:HB3	1.96	0.47
2:FG:22:GLU:O	2:FG:26:LEU:HD23	2.14	0.47
3:FH:83:GLN:OE1	3:FH:83:GLN:N	2.29	0.47
3:FH:254:ALA:O	3:FH:257:MET:N	2.45	0.47
3:FH:372:THR:HG21	3:FH:426:GLN:HB3	1.96	0.47
10:G5:736:LEU:O	10:G5:740:ILE:HG12	2.14	0.47
10:G5:743:TYR:O	10:G5:745:LEU:N	2.47	0.47
2:GE:326:LYS:CE	3:GF:220:PRO:HD2	2.44	0.47
3:GF:2:ARG:HB3	3:GF:131:GLN:NE2	2.29	0.47
2:GG:397:LEU:O	2:GG:401:LYS:HG2	2.13	0.47
3:GH:102:ALA:HB1	3:GH:401:GLU:OE1	2.12	0.47
11:H3:309:GLN:HG2	11:H3:310:LYS:N	2.29	0.47
11:H4:300:PHE:O	11:H4:304:THR:OG1	2.23	0.47
3:HD:8:GLN:N	3:HD:8:GLN:OE1	2.47	0.47
3:HD:12:CYS:HB3	25:HD:501:GTP:H5'	1.96	0.47
3:HF:198:GLU:HG2	3:HF:266:PHE:CE2	2.49	0.47
3:HF:371:SER:OG	3:HF:372:THR:N	2.47	0.47
2:HG:263:PRO:O	2:HG:264:ARG:HB2	2.14	0.47
3:HH:293:MET:HA	3:HH:298:ASN:HD22	1.79	0.47
2:HI:196:GLU:HG2	2:HI:197:HIS:ND1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:208:ALA:N	2:HI:304:LYS:HZ1	2.11	0.47
2:IE:236:SER:O	2:IE:243:ARG:NH2	2.37	0.47
2:IE:333:ALA:O	2:IE:337:THR:HG23	2.14	0.47
3:IH:322:SER:N	3:IH:325:GLU:OE2	2.45	0.47
3:JD:173:PRO:HA	3:JD:380:ARG:CZ	2.44	0.47
3:JD:228:LEU:O	3:JD:232:THR:HG23	2.14	0.47
2:JE:419:SER:HA	2:JE:422:ARG:HE	1.79	0.47
2:JG:325:PRO:O	2:JG:329:ASN:ND2	2.47	0.47
3:KF:112:LEU:O	3:KF:116:VAL:HG13	2.14	0.47
2:KG:219:ILE:HG22	2:KG:222:PRO:HD3	1.95	0.47
2:KG:312:TYR:CE2	2:KG:341:ILE:HG23	2.49	0.47
3:KH:28:HIS:CG	3:KH:47:ILE:HD13	2.49	0.47
3:KH:36:TYR:CE2	3:KH:44:LEU:HD12	2.49	0.47
2:KI:174:ALA:HB1	2:KI:207:GLU:OE2	2.13	0.47
2:LE:174:ALA:HB1	2:LE:207:GLU:OE2	2.13	0.47
2:LE:235:VAL:HA	2:LE:238:ILE:HG12	1.96	0.47
2:LG:223:THR:O	2:LG:226:ASN:N	2.47	0.47
2:LG:338:LYS:HZ1	2:LG:340:THR:HG23	1.78	0.47
2:ME:257:THR:HA	3:MF:397:TRP:CZ2	2.49	0.47
3:MF:21:TRP:CZ3	3:MF:61:PRO:HB3	2.48	0.47
2:MG:371:VAL:HG12	2:MG:373:ARG:H	1.78	0.47
3:MH:3:GLU:OE2	3:MH:127:CYS:HB3	2.14	0.47
2:MI:95:GLY:C	2:MI:96:LYS:HD3	2.34	0.47
17:N3:68:LYS:HD3	17:N3:70:ASP:H	1.79	0.47
3:NF:113:VAL:HA	3:NF:116:VAL:HG22	1.95	0.47
2:NG:229:ARG:NH1	2:NG:366:GLY:HA2	2.28	0.47
3:OD:190:HIS:HD2	3:OD:411:ALA:HA	1.79	0.47
3:OD:198:GLU:HA	3:OD:266:PHE:HE2	1.79	0.47
3:OF:178:THR:OG1	3:OF:181:GLU:HB2	2.14	0.47
2:OG:11:GLN:O	2:OG:14:VAL:HG22	2.14	0.47
2:OG:82:THR:O	2:OG:85:GLN:NE2	2.41	0.47
3:OH:51:TYR:CD1	3:OH:61:PRO:HA	2.49	0.47
3:OH:278:SER:HB2	3:OH:282:ARG:HG2	1.96	0.47
2:OI:272:TYR:CZ	2:OI:274:PRO:HG2	2.49	0.47
19:P1:20:ILE:HB	19:P1:611:ILE:HB	1.96	0.47
19:P1:62:GLY:O	19:P1:106:ARG:NH2	2.46	0.47
2:PE:89:PRO:HD2	2:QE:280:LYS:NZ	2.29	0.47
3:PH:142:GLY:N	25:PH:501:GTP:O3B	2.45	0.47
3:PH:292:GLN:HA	3:PH:295:ASP:OD2	2.13	0.47
20:Q1:1398:ASP:O	20:Q1:1401:GLN:HG3	2.14	0.47
20:Q2:1417:ARG:O	20:Q2:1417:ARG:NE	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:184:PRO:HB2	2:QG:395:PHE:CD1	2.48	0.47
2:QG:251:ASP:HB3	2:QG:254:GLU:OE1	2.14	0.47
3:RH:226:ASN:HA	3:RH:229:VAL:HG22	1.94	0.47
3:RH:266:PHE:HB3	3:RH:368:ILE:HD11	1.96	0.47
3:SF:150:LEU:O	3:SF:153:SER:OG	2.24	0.47
3:SF:272:PRO:HB3	3:SF:282:ARG:NH2	2.27	0.47
2:SI:352:LYS:HA	3:SJ:177:ASP:OD1	2.13	0.47
3:SJ:271:ALA:HB1	3:SJ:272:PRO:HD2	1.96	0.47
3:SJ:327:ASP:O	3:SJ:330:MET:HG3	2.14	0.47
2:TI:8:HIS:ND1	2:TI:138:PHE:HB2	2.29	0.47
2:TI:12:ALA:HB1	25:TI:501:GTP:C2	2.49	0.47
3:TJ:328:GLU:OE1	3:TJ:332:ASN:ND2	2.46	0.47
3:UD:192:LEU:O	3:UD:196:THR:HG22	2.13	0.47
2:UE:186:ASN:OD1	2:UE:187:SER:N	2.47	0.47
2:UE:259:LEU:HD21	2:UE:316:CYS:HB2	1.96	0.47
2:UG:11:GLN:HB2	25:UG:501:GTP:O3A	2.13	0.47
3:UH:8:GLN:HB3	3:UH:65:LEU:HA	1.96	0.47
3:UH:12:CYS:HB3	25:UH:501:GTP:O4'	2.14	0.47
3:UH:377:LEU:O	3:UH:380:ARG:HB2	2.14	0.47
2:VG:40:LYS:HD2	2:VG:40:LYS:N	2.29	0.47
3:VH:77:ARG:HD3	3:VH:90:PHE:HE2	1.79	0.47
3:VH:165:ASN:OD1	3:VH:166:THR:N	2.47	0.47
2:WE:347:CYS:HB2	2:WE:349:THR:O	2.13	0.47
3:WF:249:ASP:OD2	3:WF:251:ARG:HB3	2.15	0.47
2:WG:30:ILE:HA	2:WG:36:MET:HE1	1.96	0.47
2:WG:131:GLY:HA2	23:XK:73:SER:O	2.13	0.47
2:WG:431:ASP:O	2:WG:435:VAL:HG22	2.13	0.47
2:WG:433:GLU:O	2:WG:437:VAL:HG22	2.14	0.47
3:WH:214:THR:HG23	3:WH:215:LEU:HD22	1.96	0.47
2:WI:208:ALA:H	2:WI:304:LYS:HZ1	1.61	0.47
2:WI:414:GLU:OE1	2:WI:414:GLU:N	2.47	0.47
22:XC:74:PRO:HB2	22:XC:135:ASN:ND2	2.29	0.47
22:XE:82:ASN:HB3	22:XE:127:ASP:HA	1.95	0.47
23:XK:188:ASN:HD21	23:XK:206:GLY:H	1.61	0.47
24:YL:114:ARG:NH1	24:YL:122:VAL:HB	2.28	0.47
24:YM:142:PRO:HA	24:YM:145:LEU:HD12	1.96	0.47
2:AE:220:GLU:HG2	2:AE:221:ARG:HG2	1.96	0.47
3:AF:46:ARG:HH22	2:AG:73:THR:HG23	1.77	0.47
2:AG:36:MET:SD	2:AG:36:MET:N	2.82	0.47
2:AG:174:ALA:HB3	2:AG:177:VAL:O	2.14	0.47
3:AH:83:GLN:OE1	3:AH:83:GLN:N	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:299:MET:SD	3:AH:300:MET:N	2.87	0.47
2:AI:26:LEU:O	2:AI:29:GLY:N	2.43	0.47
2:AI:320:ARG:CZ	2:AI:360:PRO:HA	2.44	0.47
4:B3:176:HIS:HA	4:B3:179:LYS:NZ	2.29	0.47
4:B8:275:PHE:HD2	4:B8:380:LYS:HE3	1.79	0.47
2:BG:36:MET:HG2	2:BG:61:HIS:HE1	1.79	0.47
3:BH:359:ARG:NH2	11:H4:4:THR:HA	2.30	0.47
2:BI:107:HIS:HB3	2:BI:108:TYR:CD1	2.48	0.47
5:C3:418:LEU:O	5:C3:422:ASN:ND2	2.44	0.47
3:CH:213:ARG:O	3:CH:216:LYS:HE3	2.15	0.47
3:CJ:387:ALA:HA	3:CJ:390:ARG:HD3	1.96	0.47
6:D3:202:ARG:HH12	7:E2:136:CYS:HA	1.79	0.47
6:D3:247:PHE:HD1	6:D4:361:SER:HB3	1.79	0.47
6:D3:268:ALA:O	6:D3:271:GLU:HG2	2.13	0.47
6:D9:232:THR:O	6:D9:235:SER:OG	2.22	0.47
3:DD:249:ASP:OD2	3:DD:251:ARG:HB3	2.13	0.47
2:DE:245:ASP:O	2:DE:356:ASN:ND2	2.46	0.47
2:DE:397:LEU:O	2:DE:401:LYS:NZ	2.36	0.47
3:DF:40:SER:HB3	3:DF:42:LEU:HD23	1.97	0.47
2:DG:145:THR:HG1	25:DG:501:GTP:PB	2.37	0.47
3:ED:324:LYS:HG2	3:ED:325:GLU:OE1	2.14	0.47
2:EE:53:PHE:CG	2:EE:61:HIS:HB3	2.49	0.47
3:EF:197:ASP:OD1	3:EF:197:ASP:N	2.47	0.47
8:F2:389:LEU:HD13	8:F2:423:ILE:HG21	1.94	0.47
8:F6:306:HIS:O	8:F6:310:MET:HG2	2.14	0.47
8:F6:314:SER:O	8:F6:318:ARG:HG3	2.14	0.47
2:FE:246:GLY:HA2	2:FE:357:TYR:CE2	2.49	0.47
10:G5:734:ARG:HE	10:G5:735:TYR:N	2.05	0.47
2:GE:180:ALA:HB1	2:GE:182:VAL:HG12	1.95	0.47
3:GF:83:GLN:OE1	3:GF:83:GLN:N	2.34	0.47
3:GF:386:THR:HA	3:GF:390:ARG:HH21	1.79	0.47
2:GG:120:ASP:HA	2:GG:123:ARG:CZ	2.43	0.47
3:GH:42:LEU:HD11	3:GH:356:ILE:HG21	1.96	0.47
3:GH:47:ILE:HD11	3:GH:51:TYR:CD2	2.50	0.47
3:GH:377:LEU:O	3:GH:381:ILE:HG12	2.14	0.47
2:GI:2:ARG:HG2	2:GI:242:LEU:HD23	1.96	0.47
2:GI:229:ARG:NH1	2:GI:233:GLN:HB3	2.26	0.47
11:H3:227:ARG:NH1	11:H3:230:TRP:HB2	2.30	0.47
11:H4:212:LEU:HA	11:H4:214:GLN:OE1	2.14	0.47
3:HD:49:VAL:HG23	3:HD:50:TYR:CD2	2.48	0.47
3:HD:324:LYS:HE3	3:HD:324:LYS:HB3	1.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:253:THR:O	2:HE:257:THR:HG23	2.14	0.47
2:HG:155:GLU:O	2:HG:158:SER:OG	2.24	0.47
3:HH:282:ARG:NH2	3:HH:292:GLN:OE1	2.47	0.47
2:HI:242:LEU:HD12	2:HI:242:LEU:H	1.79	0.47
2:IE:397:LEU:O	2:IE:401:LYS:HG2	2.13	0.47
2:IG:338:LYS:HZ3	2:IG:339:ARG:H	1.62	0.47
2:IG:363:VAL:HG13	2:IG:366:GLY:HA3	1.96	0.47
3:IH:259:PRO:HG2	3:IH:311:LEU:HD21	1.95	0.47
13:J2:50:ILE:HD11	13:J2:104:HIS:CD2	2.49	0.47
2:JE:186:ASN:OD1	2:JE:187:SER:N	2.48	0.47
2:JG:3:GLU:OE2	2:JG:130:THR:N	2.44	0.47
3:JH:84:ILE:O	3:JH:86:ARG:NH1	2.47	0.47
3:KD:246:LEU:HB2	3:KD:353:VAL:H	1.80	0.47
3:KD:404:ASP:N	3:KD:404:ASP:OD1	2.47	0.47
3:KF:172:SER:OG	3:KF:205:GLU:OE2	2.26	0.47
2:KI:402:ARG:HH22	21:R2:129:LYS:CG	2.01	0.47
15:L3:43:LYS:NZ	3:MH:334:GLN:HG3	2.29	0.47
2:LG:115:VAL:HA	2:LG:118:VAL:HG22	1.96	0.47
3:MH:211:CYS:SG	3:MH:220:PRO:HG3	2.54	0.47
2:MI:6:SER:O	2:MI:65:ALA:HA	2.14	0.47
3:ND:107:THR:OG1	3:ND:401:GLU:OE2	2.31	0.47
2:NE:262:TYR:HA	3:NF:396:HIS:CD2	2.49	0.47
2:NG:10:GLY:O	2:NG:14:VAL:HG13	2.15	0.47
3:NH:256:ASN:HB3	3:NH:350:LYS:HE2	1.96	0.47
3:OD:73:MET:HA	3:OD:76:VAL:HG22	1.96	0.47
3:OD:249:ASP:O	3:OD:253:LEU:HG	2.15	0.47
2:OE:152:LEU:O	2:OE:155:GLU:HG3	2.13	0.47
2:OI:113:GLU:OE1	2:OI:113:GLU:N	2.45	0.47
2:OI:189:LEU:HA	2:OI:192:HIS:CE1	2.49	0.47
2:OI:384:ILE:HB	2:OI:388:TRP:HZ3	1.80	0.47
19:P1:73:SER:HB2	19:P1:123:ASP:OD2	2.13	0.47
19:P1:428:ASP:CG	19:P1:430:LYS:HG2	2.35	0.47
2:PE:217:LEU:HD13	2:PE:277:SER:HA	1.95	0.47
2:PE:258:ASN:ND2	2:PE:352:LYS:HG2	2.29	0.47
2:PE:424:ASP:O	2:PE:428:LEU:HG	2.14	0.47
2:PG:142:GLY:HA2	2:PG:186:ASN:OD1	2.14	0.47
3:PH:390:ARG:O	3:PH:392:LYS:NZ	2.34	0.47
3:QF:40:SER:HB2	3:QF:43:GLN:HG2	1.95	0.47
3:QH:40:SER:HB2	3:QH:43:GLN:CD	2.35	0.47
3:QH:345:ILE:HD11	2:QI:181:VAL:HG11	1.96	0.47
2:QI:13:GLY:O	2:QI:16:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QI:127:ASP:OD1	2:QI:128:LEU:N	2.47	0.47
2:QI:274:PRO:HG3	2:QI:374:ALA:HA	1.96	0.47
2:RE:230:LEU:HA	2:RE:233:GLN:HG3	1.95	0.47
3:RF:190:HIS:O	3:RF:193:VAL:HG12	2.14	0.47
3:RF:229:VAL:O	3:RF:232:THR:OG1	2.20	0.47
3:RF:249:ASP:OD2	3:RF:251:ARG:HB3	2.14	0.47
3:RH:86:ARG:HB2	3:RH:89:ASN:CG	2.34	0.47
3:RH:91:VAL:HG21	3:RH:119:VAL:HG21	1.95	0.47
2:RI:413:MET:HG3	2:RI:414:GLU:N	2.28	0.47
3:RJ:320:ARG:HH11	3:RJ:355:ASP:HB2	1.79	0.47
2:SE:239:THR:OG1	2:SE:243:ARG:NH1	2.47	0.47
2:SE:261:PRO:HG3	2:SE:313:MET:CE	2.44	0.47
3:SF:172:SER:OG	3:SF:174:LYS:HG2	2.14	0.47
3:SF:180:VAL:HG13	3:SF:184:ASN:OD1	2.14	0.47
2:SG:125:LEU:O	2:SG:128:LEU:HG	2.13	0.47
2:SG:285:GLN:NE2	2:SG:286:LEU:O	2.47	0.47
2:SG:325:PRO:HD2	2:SG:326:LYS:NZ	2.29	0.47
3:SH:307:HIS:NE2	3:SH:376:GLU:OE2	2.47	0.47
3:SJ:261:PRO:O	3:SJ:264:HIS:NE2	2.47	0.47
3:TF:228:LEU:O	3:TF:232:THR:HG23	2.14	0.47
3:TF:284:LEU:HD12	3:TF:284:LEU:O	2.14	0.47
3:TH:52:ASN:O	3:TH:60:VAL:N	2.46	0.47
3:TJ:28:HIS:O	3:TJ:43:GLN:NE2	2.47	0.47
3:UD:39:ASP:OD1	3:UD:39:ASP:N	2.46	0.47
3:UD:41:ASP:OD1	3:UD:42:LEU:N	2.46	0.47
3:UD:309:ARG:H	3:UD:372:THR:HG1	1.60	0.47
3:UF:346:PRO:HD2	2:UG:398:MET:HE1	1.96	0.47
2:UG:175:PRO:HA	2:UG:390:ARG:CZ	2.44	0.47
2:UG:273:ALA:O	2:UG:275:VAL:N	2.43	0.47
3:UH:316:VAL:HG22	3:UH:352:ALA:HB3	1.96	0.47
3:VF:117:LEU:HB3	3:VF:121:ARG:NH2	2.29	0.47
2:VG:272:TYR:HD2	2:VG:275:VAL:HG13	1.78	0.47
2:WE:45:GLY:HA2	2:WE:49:PHE:HE1	1.80	0.47
2:WG:13:GLY:HA2	2:WG:16:ILE:HG12	1.96	0.47
2:WG:63:PRO:HG2	2:WG:87:PHE:CE1	2.49	0.47
2:WG:160:ASP:OD1	2:WG:161:TYR:N	2.46	0.47
2:WI:30:ILE:HD13	2:WI:36:MET:SD	2.54	0.47
2:WI:132:LEU:O	2:WI:132:LEU:HD12	2.14	0.47
2:WI:396:ASP:OD1	2:WI:397:LEU:N	2.47	0.47
23:XJ:56:PHE:HE1	23:XJ:65:PHE:HE2	1.62	0.47
23:XJ:204:ASN:OD1	23:XJ:207:ASP:N	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YJ:8:LEU:HA	24:YJ:11:ILE:HG12	1.94	0.47
24:YN:147:PHE:HA	24:YN:150:GLU:CD	2.34	0.47
1:A2:208:GLU:O	1:A2:208:GLU:HG2	2.15	0.47
1:A2:367:ARG:NH1	10:G5:179:LYS:O	2.36	0.47
2:AE:252:LEU:HD12	2:AE:253:THR:N	2.29	0.47
2:AE:368:LEU:H	2:AE:368:LEU:HD23	1.79	0.47
3:AH:36:TYR:CZ	3:AH:38:GLY:HA2	2.50	0.47
3:AH:187:LEU:O	3:AH:191:GLN:NE2	2.47	0.47
2:AI:103:TYR:CD2	2:AI:189:LEU:HD13	2.50	0.47
2:AI:331:ALA:O	2:AI:335:ILE:HG12	2.15	0.47
4:B3:75:LYS:HA	4:B3:179:LYS:CE	2.42	0.47
4:B7:184:GLU:HA	4:B7:187:ARG:NE	2.28	0.47
4:B8:396:LYS:HA	4:B8:399:VAL:HG12	1.96	0.47
2:BG:138:PHE:HE1	2:BG:169:PHE:HB2	1.79	0.47
3:BH:81:PHE:HB3	3:BH:84:ILE:HG22	1.95	0.47
3:BH:284:LEU:HA	3:BH:288:GLU:OE2	2.14	0.47
2:BI:87:PHE:CD2	2:BI:92:LEU:HD21	2.49	0.47
5:C2:157:LYS:HZ1	5:C2:262:GLN:HB3	1.79	0.47
5:C3:299:THR:HA	5:C3:302:LYS:HG2	1.97	0.47
3:CF:164:MET:O	3:CF:164:MET:HG2	2.14	0.47
3:CF:406:MET:SD	3:CF:407:GLU:N	2.87	0.47
2:CI:252:LEU:HA	2:CI:255:PHE:CD2	2.49	0.47
2:CI:420:GLU:HA	2:CI:423:GLU:OE1	2.14	0.47
3:CJ:313:VAL:O	3:CJ:349:VAL:HA	2.13	0.47
3:CJ:322:SER:OG	3:CJ:323:MET:N	2.45	0.47
6:D8:171:TYR:CD1	6:D8:303:ALA:HB1	2.49	0.47
3:DD:134:GLN:HB2	3:DD:167:PHE:CE2	2.50	0.47
2:DE:108:TYR:CD1	2:DE:413:MET:HE3	2.49	0.47
2:DG:320:ARG:CZ	2:DG:360:PRO:HA	2.45	0.47
3:ED:114:ASP:N	3:ED:114:ASP:OD1	2.46	0.47
2:EE:120:ASP:OD1	2:EE:123:ARG:NH1	2.47	0.47
2:EG:255:PHE:HA	2:EG:259:LEU:HD23	1.96	0.47
2:EG:389:ALA:HA	2:EG:392:ASP:OD2	2.13	0.47
3:EH:101:TRP:CE3	3:EH:187:LEU:HD13	2.49	0.47
3:EH:197:ASP:OD1	3:EH:198:GLU:N	2.43	0.47
8:F2:218:GLU:OE2	8:F2:335:GLN:HG3	2.14	0.47
8:F2:378:LEU:HD13	8:F2:434:LEU:HD22	1.97	0.47
8:F3:145:ARG:NH2	8:F3:148:ASP:OD2	2.48	0.47
8:F3:226:GLN:HB3	8:F3:230:ARG:NH1	2.30	0.47
8:F7:450:ARG:HA	8:F7:453:HIS:ND1	2.29	0.47
3:FD:187:LEU:HD21	3:FD:408:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:320:ARG:HD3	2:FE:360:PRO:HG3	1.95	0.47
2:FG:287:SER:N	2:FG:290:GLU:OE2	2.48	0.47
9:G1:114:HIS:HB2	9:G1:115:TYR:HD2	1.79	0.47
10:G5:580:ASN:HA	10:G5:583:ARG:NH1	2.29	0.47
3:GD:4:ILE:HB	3:GD:50:TYR:CE1	2.49	0.47
3:GD:19:LYS:O	3:GD:22:GLU:HG3	2.14	0.47
3:GD:203:ASP:N	3:GD:301:ALA:O	2.44	0.47
2:GE:329:ASN:HA	2:GE:332:ILE:HG12	1.96	0.47
3:GF:249:ASP:OD2	3:GF:251:ARG:HB3	2.14	0.47
3:GF:379:LYS:O	3:GF:383:GLU:OE1	2.33	0.47
3:GH:8:GLN:NE2	3:GH:17:GLY:HA3	2.29	0.47
2:GI:214:ARG:NH1	2:GI:215:ARG:HG3	2.29	0.47
11:H3:227:ARG:NH1	11:H3:231:VAL:H	2.12	0.47
11:H4:215:ARG:NH1	11:H4:216:LYS:O	2.47	0.47
3:HD:180:VAL:HG13	3:HD:184:ASN:OD1	2.14	0.47
3:HF:357:PRO:O	3:HF:359:ARG:NH2	2.47	0.47
3:HH:3:GLU:OE2	3:HH:129:CYS:N	2.47	0.47
2:HI:12:ALA:HB1	25:HI:501:GTP:N3	2.29	0.47
2:HI:313:MET:SD	2:HI:382:THR:HG23	2.54	0.47
2:IE:142:GLY:HA2	2:IE:183:GLU:OE1	2.13	0.47
3:IF:36:TYR:CE2	3:IF:38:GLY:HA2	2.49	0.47
3:IF:148:GLY:O	3:IF:152:ILE:HG12	2.13	0.47
2:IG:118:VAL:O	2:IG:122:ILE:HG12	2.15	0.47
2:IG:338:LYS:HZ2	2:IG:340:THR:N	2.12	0.47
3:JF:228:LEU:O	3:JF:232:THR:HG23	2.14	0.47
14:K3:391:GLU:HB3	14:K3:395:ARG:HG2	1.95	0.47
2:KE:296:PHE:CE2	2:KE:335:ILE:HG21	2.49	0.47
2:KG:209:ILE:HG23	2:KG:230:LEU:HD12	1.95	0.47
2:LE:306:ASP:OD1	2:LE:308:ARG:NE	2.47	0.47
2:LG:145:THR:HG23	25:LG:501:GTP:O3B	2.15	0.47
2:LG:235:VAL:HA	2:LG:238:ILE:HG12	1.96	0.47
2:LI:287:SER:N	2:LI:290:GLU:OE2	2.47	0.47
16:M2:98:HIS:ND1	16:M2:101:ASP:OD1	2.47	0.47
2:ME:3:GLU:CD	2:ME:132:LEU:H	2.18	0.47
2:ME:187:SER:O	2:ME:191:THR:HG23	2.13	0.47
2:MG:3:GLU:OE2	2:MG:131:GLY:N	2.47	0.47
2:MG:102:ASN:ND2	2:MG:105:ARG:HG3	2.27	0.47
3:MH:47:ILE:HD12	3:MH:59:TYR:HE2	1.78	0.47
3:MH:355:ASP:OD1	3:MH:356:ILE:N	2.48	0.47
2:MI:10:GLY:O	2:MI:14:VAL:HG13	2.13	0.47
2:MI:115:VAL:HA	2:MI:118:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:N2:159:ARG:HA	17:N2:164:GLY:O	2.15	0.47
2:NE:34:GLY:O	2:NE:61:HIS:ND1	2.47	0.47
2:NE:236:SER:C	2:NE:243:ARG:HH22	2.17	0.47
3:NF:309:ARG:HD2	3:NF:341:PHE:O	2.13	0.47
3:NH:190:HIS:HD2	3:NH:191:GLN:HE21	1.61	0.47
3:NH:404:ASP:OD1	3:NH:404:ASP:N	2.47	0.47
3:OD:186:THR:HG21	3:OD:385:PHE:HD2	1.79	0.47
2:OE:23:LEU:HD21	2:OE:232:GLY:HA3	1.96	0.47
3:OF:228:LEU:O	3:OF:232:THR:HG23	2.14	0.47
2:OG:30:ILE:HD12	2:OG:61:HIS:CE1	2.48	0.47
2:OG:388:TRP:HB2	2:OG:429:GLU:OE2	2.14	0.47
3:OH:70:PRO:O	3:OH:73:MET:HG2	2.14	0.47
3:OH:267:MET:HB2	3:OH:301:ALA:CB	2.45	0.47
3:OH:417:ASP:O	3:OH:421:GLU:HG3	2.14	0.47
19:P1:93:ILE:HG13	19:P1:114:ILE:HD13	1.97	0.47
19:P1:314:ILE:O	19:P1:326:LEU:HD12	2.14	0.47
19:P2:288:GLN:NE2	19:P2:289:LEU:O	2.46	0.47
2:PE:89:PRO:HD2	2:QE:280:LYS:HZ3	1.79	0.47
2:PE:214:ARG:NH1	2:PE:215:ARG:HG3	2.29	0.47
2:PE:346:TRP:HB3	3:PF:391:ARG:HH21	1.79	0.47
3:PF:3:GLU:HA	3:PF:49:VAL:HG23	1.96	0.47
3:PF:67:ASP:OD1	3:PF:67:ASP:N	2.46	0.47
2:PG:320:ARG:CZ	2:PG:360:PRO:HA	2.44	0.47
3:PH:19:LYS:NZ	3:PH:227:HIS:HB2	2.29	0.47
3:PH:345:ILE:HD13	2:PI:398:MET:SD	2.54	0.47
3:QF:41:ASP:HB3	24:YI:20:GLN:HG2	1.96	0.47
3:QF:274:THR:HG21	3:QF:279:GLN:HG3	1.96	0.47
3:QF:275:SER:O	3:QF:279:GLN:NE2	2.47	0.47
2:QG:140:SER:HA	2:QG:170:ALA:HB1	1.97	0.47
2:QI:420:GLU:HG2	2:QI:424:ASP:OD2	2.14	0.47
2:RE:42:ILE:HD11	2:RE:56:THR:O	2.14	0.47
3:RF:246:LEU:HD12	3:RF:352:ALA:HB1	1.97	0.47
2:RG:186:ASN:OD1	2:RG:187:SER:N	2.47	0.47
2:RG:257:THR:HA	3:RH:397:TRP:CZ2	2.50	0.47
3:RH:52:ASN:O	3:RH:60:VAL:N	2.47	0.47
2:RI:185:TYR:HA	2:RI:395:PHE:CE2	2.50	0.47
3:RJ:46:ARG:O	3:RJ:49:VAL:HG12	2.14	0.47
3:SF:328:GLU:OE1	3:SF:332:ASN:ND2	2.46	0.47
3:SH:188:SER:HG	3:SH:189:VAL:H	1.61	0.47
3:SH:324:LYS:HD3	2:SI:210:TYR:CD1	2.49	0.47
3:TF:52:ASN:O	3:TF:60:VAL:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:345:ILE:HA	2:TG:398:MET:HE1	1.95	0.47
2:TG:318:LEU:O	2:TG:375:VAL:HA	2.14	0.47
3:TH:4:ILE:HB	3:TH:50:TYR:CE1	2.49	0.47
3:TH:114:ASP:OD1	3:TH:115:SER:N	2.47	0.47
3:TH:310:TYR:CD1	3:TH:371:SER:HB2	2.49	0.47
2:TI:414:GLU:HG2	2:TI:416:GLY:H	1.79	0.47
3:UD:3:GLU:HG3	3:UD:62:ARG:CZ	2.43	0.47
2:UG:68:VAL:HA	2:UG:93:ILE:HB	1.95	0.47
2:UG:332:ILE:O	2:UG:336:LYS:HG3	2.14	0.47
2:UG:346:TRP:HE1	2:UG:438:ASP:HB3	1.79	0.47
3:UH:143:THR:HG22	3:UH:147:MET:CE	2.44	0.47
3:UH:229:VAL:O	3:UH:232:THR:OG1	2.23	0.47
3:VD:64:VAL:HA	3:VD:89:ASN:HB3	1.94	0.47
2:VE:257:THR:HG22	3:VF:397:TRP:CD1	2.50	0.47
2:VE:326:LYS:H	2:VE:326:LYS:HE2	1.79	0.47
3:VF:290:THR:O	3:VF:293:MET:HB3	2.13	0.47
3:VF:290:THR:HA	3:VF:293:MET:HB2	1.96	0.47
2:VG:54:SER:N	2:VG:62:VAL:O	2.46	0.47
2:VG:102:ASN:HB3	2:VG:105:ARG:HB3	1.96	0.47
2:VG:196:GLU:HG2	2:VG:197:HIS:ND1	2.28	0.47
3:VH:83:GLN:OE1	3:VH:83:GLN:N	2.41	0.47
2:WE:368:LEU:H	2:WE:368:LEU:HD23	1.80	0.47
22:XE:185:LEU:HD23	22:XE:185:LEU:H	1.79	0.47
23:XK:127:LEU:HD12	23:XK:127:LEU:H	1.79	0.47
24:YI:46:ILE:O	24:YI:50:GLN:NE2	2.47	0.47
24:YJ:46:ILE:HD12	24:YJ:46:ILE:H	1.79	0.47
24:YK:40:ILE:O	24:YK:41:ARG:HG3	2.15	0.47
24:YK:110:LEU:HD22	24:YK:140:LEU:HD12	1.96	0.47
2:AE:211:ASP:C	2:AE:215:ARG:HE	2.18	0.47
2:AG:297:GLU:CD	2:AG:299:ALA:H	2.17	0.47
3:AH:105:HIS:O	3:AH:150:LEU:HD11	2.15	0.47
3:AH:111:GLU:HG2	3:AH:112:LEU:HD12	1.97	0.47
4:B2:109:PRO:HA	4:B2:112:VAL:HG12	1.96	0.47
4:B3:139:LYS:NZ	4:B3:257:GLN:OE1	2.43	0.47
4:B3:216:GLN:N	4:B3:216:GLN:OE1	2.46	0.47
4:B7:211:ASP:OD1	4:B7:211:ASP:N	2.48	0.47
2:BE:102:ASN:ND2	2:BE:105:ARG:HB2	2.29	0.47
2:BE:236:SER:HA	2:BE:243:ARG:HH12	1.78	0.47
2:BG:338:LYS:HZ2	2:BG:339:ARG:H	1.63	0.47
3:BH:3:GLU:OE2	3:BH:129:CYS:N	2.41	0.47
5:C3:176:ASP:O	5:C3:180:ARG:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:282:SER:N	5:C4:394:LYS:HE2	2.29	0.47
3:CF:247:ASN:O	3:CF:247:ASN:ND2	2.47	0.47
3:CF:423:GLN:O	3:CF:427:ASP:HB2	2.14	0.47
2:CG:79:ARG:HG2	11:H3:218:ILE:HD12	1.96	0.47
3:CJ:19:LYS:HZ1	3:CJ:227:HIS:HB2	1.79	0.47
6:D2:65:HIS:HA	6:D2:68:PHE:CD2	2.50	0.47
6:D7:346:LYS:NZ	6:D7:388:LEU:HG	2.29	0.47
6:D8:236:THR:HG23	6:D8:237:GLN:HG2	1.97	0.47
3:DD:170:VAL:HG11	3:DD:377:LEU:HD23	1.96	0.47
2:DE:107:HIS:HB3	2:DE:108:TYR:CD1	2.50	0.47
2:DG:121:ARG:HA	2:DG:124:LYS:HG2	1.95	0.47
2:DG:297:GLU:CD	2:DG:299:ALA:H	2.18	0.47
3:ED:31:ASP:N	3:ED:31:ASP:OD1	2.46	0.47
3:ED:34:GLY:O	3:ED:58:LYS:HA	2.14	0.47
3:ED:38:GLY:O	10:G5:660:ARG:NH2	2.47	0.47
2:EE:324:VAL:HB	2:EE:326:LYS:HZ3	1.79	0.47
8:F2:163:LEU:O	8:F2:167:ASN:ND2	2.47	0.47
8:F6:284:GLU:OE2	8:F6:285:LYS:NZ	2.48	0.47
2:FE:2:ARG:NE	2:FE:242:LEU:HG	2.29	0.47
2:FE:116:ASP:OD1	2:FE:117:LEU:N	2.44	0.47
2:FE:185:TYR:HA	2:FE:395:PHE:HE2	1.80	0.47
2:FE:225:THR:O	2:FE:229:ARG:HG2	2.15	0.47
2:FE:392:ASP:HA	2:FE:422:ARG:NH2	2.29	0.47
3:FF:36:TYR:CE2	3:FF:44:LEU:HD13	2.49	0.47
3:FF:83:GLN:OE1	3:FF:83:GLN:N	2.41	0.47
3:FF:322:SER:OG	3:FF:323:MET:N	2.47	0.47
25:FF:502:GTP:C6	2:FG:15:GLN:HG3	2.49	0.47
2:FG:327:ASP:OD1	2:FG:328:VAL:N	2.48	0.47
3:FH:376:GLU:HA	3:FH:379:LYS:HE2	1.95	0.47
9:G2:481:ASN:O	9:G2:483:ILE:HD12	2.15	0.47
10:G5:205:GLU:O	10:G5:208:ASP:HB2	2.15	0.47
10:G5:293:TYR:O	10:G5:293:TYR:CG	2.67	0.47
10:G5:400:GLU:OE1	10:G5:400:GLU:N	2.48	0.47
2:GE:286:LEU:H	2:GE:286:LEU:HD23	1.78	0.47
3:GF:378:PHE:CD1	3:GF:419:VAL:HG22	2.49	0.47
3:GH:40:SER:HB2	3:GH:43:GLN:CD	2.35	0.47
3:GH:240:LEU:HD22	3:GH:248:ALA:HB1	1.96	0.47
2:GI:174:ALA:HB3	2:GI:177:VAL:O	2.13	0.47
2:GI:184:PRO:HB2	2:GI:395:PHE:CE1	2.49	0.47
2:GI:240:ALA:HB1	2:GI:356:ASN:ND2	2.28	0.47
11:H4:13:GLU:O	11:H4:14:PRO:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:330:MET:SD	3:HD:331:LEU:HD22	2.54	0.47
2:HE:287:SER:HG	2:HE:290:GLU:CD	2.15	0.47
3:HF:136:THR:HG22	3:HF:167:PHE:HD2	1.79	0.47
2:IG:246:GLY:HA2	2:IG:357:TYR:HD2	1.77	0.47
3:IH:66:VAL:HG12	3:IH:91:VAL:HG13	1.95	0.47
3:IH:276:ARG:NH2	3:IH:279:GLN:HE22	2.11	0.47
3:IH:329:GLN:O	3:IH:333:VAL:HG12	2.14	0.47
2:JE:51:THR:HG23	2:JE:52:PHE:CD2	2.48	0.47
2:JE:136:LEU:HB3	2:JE:138:PHE:CE2	2.50	0.47
3:JH:46:ARG:HG3	3:JH:241:ARG:O	2.14	0.47
14:K2:377:ILE:HD11	2:KE:159:VAL:HG12	1.97	0.47
14:K3:338:GLN:OE1	14:K3:341:ARG:NH1	2.47	0.47
2:KE:260:VAL:O	3:KF:397:TRP:HH2	1.98	0.47
3:KF:207:LEU:HD13	3:KF:225:LEU:HB3	1.97	0.47
3:KH:214:THR:HG21	3:KH:273:LEU:CB	2.44	0.47
3:KH:270:PHE:CG	3:KH:271:ALA:N	2.81	0.47
2:KI:172:TYR:CG	2:KI:173:PRO:HD2	2.48	0.47
2:KI:236:SER:HA	2:KI:243:ARG:HH12	1.79	0.47
2:KI:390:ARG:HG3	2:KI:391:LEU:N	2.30	0.47
3:LD:282:ARG:HH21	3:LD:289:LEU:HD12	1.79	0.47
3:LF:330:MET:O	3:LF:333:VAL:HG12	2.15	0.47
3:LH:380:ARG:O	3:LH:384:GLN:HG2	2.13	0.47
2:ME:352:LYS:HD2	3:MF:177:ASP:O	2.14	0.47
3:MF:302:ALA:HB1	3:MF:377:LEU:HD11	1.95	0.47
2:MG:163:LYS:H	2:MG:164:LYS:NZ	2.13	0.47
2:MG:253:THR:O	2:MG:256:GLN:HG3	2.15	0.47
2:MG:438:ASP:C	18:O2:56:SER:HB3	2.35	0.47
17:N3:96:GLN:O	17:N3:99:ILE:N	2.34	0.47
2:NE:246:GLY:HA3	2:NE:356:ASN:HA	1.97	0.47
3:NH:80:PRO:O	3:NH:83:GLN:NE2	2.31	0.47
2:NI:56:THR:HB	2:OI:285:GLN:HG3	1.96	0.47
2:NI:263:PRO:HB2	2:NI:264:ARG:NH1	2.29	0.47
3:OH:81:PHE:O	3:OH:84:ILE:HG22	2.14	0.47
3:OH:247:ASN:OD1	2:OI:11:GLN:HG2	2.14	0.47
2:OI:89:PRO:HD3	2:PI:283:HIS:HE1	1.79	0.47
2:OI:308:ARG:NH2	2:OI:341:ILE:HA	2.29	0.47
19:P1:337:ASP:N	19:P1:351:CYS:SG	2.87	0.47
19:P1:384:ARG:N	19:P1:429:CYS:SG	2.86	0.47
19:P2:205:LYS:HE3	3:WH:80:PRO:HD3	1.95	0.47
19:P2:396:GLY:H	19:P2:419:GLY:HA2	1.80	0.47
3:PF:344:TRP:CH2	2:PG:403:ALA:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:151:LEU:HA	3:PH:154:LYS:HE2	1.96	0.47
20:Q2:1503:SER:C	20:Q2:1504:LYS:HD2	2.34	0.47
3:QF:173:PRO:O	3:QF:380:ARG:NH2	2.47	0.47
2:QG:52:PHE:HE2	2:QG:243:ARG:HH11	1.61	0.47
2:QG:80:THR:HA	2:QG:84:ARG:NH2	2.29	0.47
3:QH:141:GLY:HA2	25:QH:501:GTP:O3'	2.14	0.47
3:QH:247:ASN:CB	3:QH:252:LYS:HG2	2.44	0.47
2:RE:17:GLY:O	2:RE:21:TRP:HD1	1.98	0.47
2:RE:22:GLU:HG2	2:RE:83:TYR:HE2	1.79	0.47
2:RE:83:TYR:HB3	2:RE:86:LEU:HD12	1.97	0.47
2:RE:320:ARG:HD3	2:RE:360:PRO:HG3	1.97	0.47
2:RE:438:ASP:O	3:RF:391:ARG:NH2	2.47	0.47
3:RF:204:ASN:O	3:RF:208:TYR:HD1	1.98	0.47
3:RH:19:LYS:NZ	3:RH:227:HIS:HB2	2.29	0.47
2:SE:22:GLU:O	2:SE:26:LEU:HD23	2.14	0.47
2:SG:133:GLN:O	2:SG:164:LYS:HB2	2.14	0.47
2:SG:217:LEU:HD13	2:SG:277:SER:HA	1.96	0.47
3:SH:112:LEU:O	3:SH:116:VAL:HG22	2.14	0.47
3:SH:190:HIS:HA	3:SH:414:ASN:ND2	2.29	0.47
2:SI:167:LEU:HB3	2:SI:169:PHE:CZ	2.49	0.47
2:SI:332:ILE:O	2:SI:336:LYS:HG3	2.15	0.47
3:TF:47:ILE:HG13	3:TF:51:TYR:HB2	1.96	0.47
3:TF:213:ARG:O	3:TF:216:LYS:HE2	2.15	0.47
2:TG:102:ASN:HD21	2:TG:411:GLU:CG	2.28	0.47
3:TJ:148:GLY:O	3:TJ:152:ILE:HG23	2.14	0.47
3:UD:3:GLU:HB2	3:UD:49:VAL:O	2.14	0.47
2:UE:3:GLU:OE2	2:UE:131:GLY:N	2.44	0.47
3:UF:155:ILE:HA	3:UF:158:GLU:HB3	1.95	0.47
3:VD:32:PRO:O	3:VD:83:GLN:NE2	2.43	0.47
3:VF:113:VAL:HA	3:VF:116:VAL:HG22	1.95	0.47
3:VF:229:VAL:O	3:VF:232:THR:OG1	2.17	0.47
2:VG:34:GLY:HA3	2:VG:60:LYS:HZ2	1.79	0.47
22:XC:77:VAL:HA	22:XC:132:ILE:O	2.15	0.47
22:XD:81:LYS:HB2	22:XD:129:TRP:CE2	2.49	0.47
24:YI:41:ARG:NH1	24:YI:48:GLN:OE1	2.47	0.47
1:A2:138:LYS:HZ3	12:I2:63:LEU:C	2.18	0.47
1:A2:333:ALA:HB3	1:A3:66:ARG:HH12	1.80	0.47
1:A2:384:TYR:O	1:A2:388:VAL:HG12	2.15	0.47
3:AF:279:GLN:HA	3:AF:282:ARG:NH1	2.29	0.47
3:AH:31:ASP:N	3:AH:31:ASP:OD1	2.46	0.47
2:AI:89:PRO:HB2	2:AI:90:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:214:ARG:NH2	17:N3:87:LYS:O	2.47	0.47
3:BF:391:ARG:O	3:BF:392:LYS:HG3	2.14	0.47
2:BG:117:LEU:O	2:BG:121:ARG:HG2	2.15	0.47
5:C3:275:ARG:O	5:C3:278:SER:HB3	2.14	0.47
2:CG:6:SER:OG	2:CG:8:HIS:NE2	2.47	0.47
2:CG:292:THR:HA	2:CG:295:CYS:SG	2.54	0.47
2:CG:401:LYS:C	2:CG:402:ARG:HD3	2.35	0.47
3:CH:30:ILE:HD12	3:CH:30:ILE:H	1.79	0.47
3:CH:296:ALA:HA	3:CH:299:MET:HE2	1.97	0.47
2:CI:79:ARG:O	11:H4:218:ILE:HG21	2.14	0.47
3:CJ:267:MET:HG3	3:CJ:369:GLY:O	2.14	0.47
6:D9:217:ASP:CG	6:D9:218:LYS:H	2.17	0.47
3:DD:48:ASN:CG	11:H3:288:PHE:HB3	2.35	0.47
3:DD:293:MET:HE3	3:DD:367:PHE:HB2	1.95	0.47
2:DE:189:LEU:HA	2:DE:192:HIS:CE1	2.50	0.47
2:DE:371:VAL:HG11	2:DE:374:ALA:HB2	1.95	0.47
3:DF:176:SER:O	3:DF:178:THR:N	2.47	0.47
2:DG:8:HIS:CE1	2:DG:17:GLY:HA2	2.50	0.47
2:DG:15:GLN:HG2	25:DG:501:GTP:N1	2.28	0.47
2:DG:229:ARG:HH21	2:DG:368:LEU:HD22	1.78	0.47
2:DG:314:ALA:HB1	2:DG:352:LYS:NZ	2.30	0.47
3:DH:246:LEU:HB3	3:DH:353:VAL:O	2.14	0.47
3:ED:24:ILE:HG22	3:ED:28:HIS:CD2	2.49	0.47
2:EE:207:GLU:HB2	2:EE:304:LYS:HZ1	1.79	0.47
3:EF:130:LEU:HB2	3:EF:162:ARG:HH11	1.79	0.47
2:EG:28:HIS:CE1	2:EG:243:ARG:HD2	2.49	0.47
3:FD:376:GLU:HG3	3:FD:379:LYS:NZ	2.30	0.47
2:FG:363:VAL:HG13	2:FG:366:GLY:HA3	1.96	0.47
3:FH:33:THR:O	3:FH:58:LYS:NZ	2.35	0.47
3:FH:130:LEU:HG	3:FH:132:GLY:N	2.30	0.47
3:FH:375:GLN:NE2	3:FH:422:TYR:HB3	2.30	0.47
3:FH:399:THR:HA	3:FH:403:MET:O	2.14	0.47
9:G2:331:VAL:HA	9:G2:344:ILE:HG23	1.96	0.47
10:G5:33:ARG:NH2	3:MH:93:GLY:O	2.47	0.47
10:G5:50:GLY:HA2	10:G5:52:LYS:HZ1	1.79	0.47
10:G5:492:GLU:O	10:G5:495:LYS:NZ	2.47	0.47
3:GD:135:LEU:HG	3:GD:137:HIS:HD2	1.79	0.47
3:GF:46:ARG:HG2	3:GF:241:ARG:HA	1.97	0.47
2:GG:6:SER:O	2:GG:65:ALA:HA	2.13	0.47
2:GG:227:LEU:O	2:GG:231:ILE:HD12	2.15	0.47
2:HE:127:ASP:OD1	2:HE:128:LEU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:163:ILE:HD11	3:HF:251:ARG:CD	2.44	0.47
3:HF:172:SER:OG	3:HF:205:GLU:OE2	2.26	0.47
3:HH:152:ILE:O	3:HH:156:ARG:HG2	2.14	0.47
2:IE:54:SER:OG	2:IE:64:ARG:NE	2.47	0.47
3:IF:137:HIS:O	3:IF:168:SER:HA	2.14	0.47
2:IG:390:ARG:HA	2:IG:393:HIS:CE1	2.50	0.47
3:IH:286:VAL:HG11	3:IH:325:GLU:HB2	1.97	0.47
2:II:196:GLU:OE1	2:II:196:GLU:N	2.36	0.47
2:II:417:GLU:OE1	2:II:417:GLU:N	2.45	0.47
2:JE:12:ALA:HB1	25:JE:501:GTP:C2	2.49	0.47
2:JE:217:LEU:HB3	2:JE:219:ILE:HG12	1.96	0.47
3:JF:318:ARG:NE	3:JF:356:ILE:O	2.37	0.47
3:JF:376:GLU:H	3:JF:376:GLU:CD	2.17	0.47
14:K3:222:ASP:HA	14:K3:225:LYS:HE3	1.97	0.47
14:K3:266:ASP:O	14:K3:268:THR:N	2.47	0.47
14:K3:336:LEU:HA	14:K3:339:LYS:HE2	1.97	0.47
2:KE:317:MET:HE3	2:KE:351:PHE:HD2	1.78	0.47
3:KF:249:ASP:OD1	3:KF:250:LEU:N	2.47	0.47
3:KH:52:ASN:CG	3:KH:62:ARG:HD3	2.35	0.47
3:KH:259:PRO:O	2:KI:406:HIS:HE1	1.98	0.47
2:KI:219:ILE:HG22	2:KI:221:ARG:H	1.80	0.47
15:L2:37:ASN:O	15:L2:40:LYS:HG2	2.15	0.47
15:L2:88:VAL:HG22	2:LE:263:PRO:HB2	1.97	0.47
15:L3:144:LYS:HD2	15:L3:144:LYS:N	2.29	0.47
2:LE:187:SER:O	2:LE:191:THR:HG23	2.15	0.47
3:LF:218:THR:OG1	3:LF:219:THR:N	2.47	0.47
3:LF:251:ARG:NH1	2:LG:100:ALA:HB2	2.29	0.47
3:LH:197:ASP:O	3:LH:264:HIS:ND1	2.48	0.47
3:MF:345:ILE:HD12	3:MF:346:PRO:HD2	1.97	0.47
3:MH:172:SER:HB3	3:MH:175:VAL:O	2.14	0.47
2:MI:206:ASN:OD1	2:MI:207:GLU:N	2.47	0.47
17:N3:76:ALA:HB1	17:N3:95:HIS:HA	1.96	0.47
3:NF:11:GLN:HG3	25:NF:501:GTP:O5'	2.15	0.47
3:NF:309:ARG:NH2	3:NF:426:GLN:O	2.47	0.47
2:NG:2:ARG:NE	2:NG:242:LEU:HD23	2.29	0.47
2:NI:102:ASN:OD1	2:NI:104:ALA:N	2.48	0.47
2:NI:236:SER:HA	2:NI:243:ARG:HH12	1.80	0.47
3:OD:139:LEU:N	3:OD:168:SER:OG	2.46	0.47
2:OE:256:GLN:HE22	3:OF:397:TRP:HE1	1.61	0.47
2:OG:234:ILE:O	2:OG:237:SER:OG	2.29	0.47
2:OG:280:LYS:HA	2:OG:280:LYS:HD2	1.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:224:THR:OG1	19:P1:226:THR:OG1	2.21	0.47
19:P2:353:LYS:HA	19:P2:376:THR:HA	1.97	0.47
2:PE:9:VAL:HA	2:PE:68:VAL:HG23	1.95	0.47
2:PG:107:HIS:ND1	2:PG:151:SER:OG	2.42	0.47
2:PG:352:LYS:HA	3:PH:177:ASP:OD1	2.13	0.47
3:PH:135:LEU:HD21	3:PH:151:LEU:HD11	1.96	0.47
3:PH:139:LEU:H	3:PH:168:SER:HG	1.63	0.47
3:PH:293:MET:HA	3:PH:298:ASN:ND2	2.30	0.47
2:PI:10:GLY:O	2:PI:14:VAL:HG13	2.13	0.47
20:Q1:1421:GLN:HE21	20:Q1:1467:GLY:HA2	1.79	0.47
2:QE:47:ASP:H	2:QE:50:ASN:HB3	1.79	0.47
2:QE:141:PHE:HD2	2:QE:172:TYR:HA	1.80	0.47
3:QH:210:ILE:HG13	3:QH:300:MET:CG	2.44	0.47
2:QI:251:ASP:OD1	2:QI:252:LEU:HG	2.14	0.47
21:R2:138:ASN:O	21:R2:142:ARG:HG3	2.14	0.47
2:RE:2:ARG:NH2	2:RE:250:VAL:O	2.45	0.47
2:RE:215:ARG:HH21	2:RE:216:ASN:ND2	2.12	0.47
2:RE:392:ASP:HB2	2:RE:422:ARG:CZ	2.44	0.47
2:RG:140:SER:HB2	2:RG:171:ILE:HG22	1.96	0.47
3:RH:392:LYS:HB3	3:RH:395:LEU:HD13	1.97	0.47
2:RI:247:ALA:HB3	2:RI:355:ILE:HB	1.96	0.47
3:RJ:95:SER:OG	3:RJ:108:GLU:OE1	2.31	0.47
3:RJ:139:LEU:HD21	3:RJ:170:VAL:HA	1.96	0.47
3:SF:159:TYR:HB3	3:SF:162:ARG:NH2	2.29	0.47
3:SF:276:ARG:HH21	3:SF:279:GLN:HE22	1.62	0.47
2:SG:287:SER:O	2:SG:291:ILE:HG23	2.14	0.47
2:SG:391:LEU:O	2:SG:395:PHE:HD1	1.97	0.47
3:SH:134:GLN:HA	3:SH:165:ASN:O	2.15	0.47
3:SH:165:ASN:OD1	3:SH:166:THR:N	2.48	0.47
3:SH:375:GLN:HA	3:SH:378:PHE:CZ	2.49	0.47
2:SI:56:THR:HB	2:TI:285:GLN:HG3	1.96	0.47
2:SI:200:CYS:HB3	2:SI:202:PHE:CZ	2.49	0.47
3:SJ:294:PHE:HZ	3:SJ:310:TYR:HH	1.61	0.47
3:TF:19:LYS:HZ3	3:TF:227:HIS:HB2	1.79	0.47
3:TF:77:ARG:HD3	3:TF:90:PHE:CE2	2.47	0.47
2:TG:288:VAL:HA	2:TG:291:ILE:HG12	1.97	0.47
3:TH:139:LEU:O	3:TH:185:ALA:HA	2.14	0.47
3:TH:270:PHE:CG	3:TH:271:ALA:N	2.79	0.47
2:TI:262:TYR:CE1	3:TJ:393:ALA:HA	2.50	0.47
2:TI:306:ASP:OD2	2:TI:309:HIS:N	2.48	0.47
2:TI:399:TYR:OH	2:TI:415:GLU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:47:ILE:HG13	3:UD:51:TYR:HB2	1.96	0.47
2:UE:119:LEU:HA	2:UE:122:ILE:HG22	1.97	0.47
2:UE:320:ARG:HG2	2:UE:358:GLN:O	2.15	0.47
2:UG:15:GLN:O	2:UG:228:ASN:ND2	2.47	0.47
2:UG:152:LEU:O	2:UG:156:ARG:NH1	2.47	0.47
3:VD:1:MET:SD	3:VD:2:ARG:N	2.88	0.47
3:VD:214:THR:HG21	3:VD:273:LEU:HB3	1.97	0.47
3:VD:278:SER:O	3:VD:282:ARG:CB	2.62	0.47
2:VE:166:LYS:N	2:VE:199:ASP:OD2	2.47	0.47
2:VE:265:ILE:HB	2:VE:432:TYR:CE1	2.47	0.47
3:VF:41:ASP:HA	3:VF:44:LEU:HD12	1.95	0.47
3:VF:180:VAL:HG22	3:VF:183:TYR:HB2	1.95	0.47
3:VH:233:MET:O	3:VH:236:VAL:HG12	2.14	0.47
2:WE:431:ASP:O	2:WE:435:VAL:HG22	2.13	0.47
3:WF:322:SER:OG	3:WF:323:MET:SD	2.72	0.47
2:WG:427:ALA:HA	2:WG:430:LYS:HG2	1.96	0.47
2:WI:16:ILE:HG22	2:WI:228:ASN:OD1	2.14	0.47
2:WI:71:GLU:N	2:WI:71:GLU:OE1	2.47	0.47
2:WI:265:ILE:HB	2:WI:432:TYR:CE1	2.49	0.47
22:XC:50:GLU:OE1	22:XC:159:ASN:HA	2.15	0.47
22:XC:59:ILE:CG2	22:XC:156:ILE:HB	2.45	0.47
22:XE:38:THR:HA	22:XE:45:LEU:HA	1.95	0.47
23:XK:152:THR:O	23:XK:156:LEU:HD23	2.14	0.47
23:XL:89:TYR:HD2	23:XL:125:LYS:HB3	1.80	0.47
24:YI:71:ASP:O	24:YI:74:SER:OG	2.24	0.47
24:YK:14:LYS:HE2	24:YK:72:ILE:HG12	1.95	0.47
24:YK:129:GLU:O	24:YK:133:HIS:HB2	2.13	0.47
1:A2:367:ARG:HH22	10:G5:179:LYS:CA	2.28	0.47
2:AE:174:ALA:HB1	2:AE:207:GLU:OE2	2.14	0.47
2:AE:390:ARG:HA	2:AE:393:HIS:CD2	2.49	0.47
3:AF:39:ASP:OD1	3:AF:40:SER:N	2.48	0.47
2:AG:180:ALA:HB1	2:AG:182:VAL:HG12	1.96	0.47
2:AG:263:PRO:HB2	2:AG:264:ARG:NH1	2.30	0.47
3:AH:374:ILE:HD12	3:AH:374:ILE:H	1.79	0.47
2:AI:174:ALA:HB3	2:AI:177:VAL:O	2.15	0.47
2:AI:196:GLU:OE1	2:AI:196:GLU:N	2.34	0.47
2:AI:362:VAL:HG11	2:AI:370:LYS:HE2	1.96	0.47
2:BE:244:PHE:CD2	2:BE:358:GLN:HG2	2.49	0.47
3:BF:117:LEU:HA	3:BF:120:VAL:HG12	1.96	0.47
3:BH:40:SER:HB2	3:BH:43:GLN:NE2	2.29	0.47
3:BH:210:ILE:HG13	3:BH:214:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C2:120:LEU:HD22	5:C3:444:THR:HG21	1.96	0.47
5:C3:200:PHE:HA	5:C3:203:GLU:HG3	1.96	0.47
5:C8:202:ARG:HH12	5:C8:472:LYS:CD	2.23	0.47
3:CF:73:MET:HA	3:CF:76:VAL:HG22	1.97	0.47
3:CF:423:GLN:HA	3:CF:426:GLN:HE21	1.79	0.47
2:CI:263:PRO:O	2:CI:264:ARG:HB2	2.14	0.47
3:CJ:30:ILE:HG22	3:CJ:31:ASP:O	2.15	0.47
3:CJ:36:TYR:CZ	3:CJ:38:GLY:HA2	2.50	0.47
6:D3:141:ALA:O	6:D3:145:THR:HG23	2.15	0.47
3:DD:102:ALA:H	3:DD:398:TYR:HE1	1.62	0.47
2:DE:28:HIS:CD2	2:DE:48:SER:HG	2.30	0.47
3:DH:17:GLY:O	3:DH:21:TRP:HD1	1.97	0.47
3:ED:289:LEU:HD21	3:ED:363:MET:HB3	1.95	0.47
3:ED:376:GLU:O	3:ED:379:LYS:HG3	2.14	0.47
2:EE:22:GLU:O	2:EE:26:LEU:HD23	2.15	0.47
3:EF:11:GLN:HG3	25:EF:501:GTP:PA	2.55	0.47
3:EH:378:PHE:HA	3:EH:381:ILE:HG22	1.96	0.47
3:EH:389:PHE:O	3:EH:392:LYS:N	2.44	0.47
3:EH:409:THR:O	3:EH:412:GLU:HG3	2.15	0.47
8:F6:162:ARG:HB3	8:F6:311:ARG:NH1	2.29	0.47
3:FD:24:ILE:HG22	3:FD:28:HIS:HD2	1.78	0.47
3:FD:40:SER:O	3:FD:43:GLN:HG2	2.14	0.47
3:FF:292:GLN:HA	3:FF:295:ASP:OD2	2.14	0.47
3:GD:40:SER:HB2	3:GD:43:GLN:CG	2.44	0.47
2:GE:90:GLU:HG2	2:GE:121:ARG:NH2	2.30	0.47
3:GF:11:GLN:HG3	25:GF:501:GTP:O5'	2.15	0.47
3:GH:21:TRP:HZ2	3:GH:63:ALA:HB2	1.79	0.47
11:H3:13:GLU:HB2	11:H3:14:PRO:HD3	1.97	0.47
11:H4:253:VAL:HA	11:H4:256:HIS:CG	2.49	0.47
3:HD:259:PRO:HB2	3:HD:260:PHE:CD2	2.50	0.47
2:HG:27:GLU:HG2	2:HG:28:HIS:H	1.79	0.47
2:HG:156:ARG:HA	2:HG:159:VAL:HG22	1.95	0.47
2:HG:260:VAL:HG13	3:HH:397:TRP:CH2	2.50	0.47
2:HI:192:HIS:CE1	2:HI:193:THR:HG23	2.50	0.47
3:IF:54:ALA:HB3	3:IF:58:LYS:HB3	1.97	0.47
3:IF:325:GLU:O	3:IF:329:GLN:HG2	2.13	0.47
2:II:201:ALA:H	2:II:266:HIS:HD2	1.61	0.47
13:J3:92:HIS:HA	13:J3:95:GLU:OE1	2.14	0.47
13:J3:133:THR:O	13:J3:136:LYS:HG2	2.15	0.47
3:JD:267:MET:HB2	3:JD:301:ALA:CB	2.45	0.47
3:JD:358:PRO:HB2	3:JD:361:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:3:GLU:OE2	2:JE:130:THR:N	2.46	0.47
3:JF:83:GLN:OE1	3:JF:83:GLN:N	2.33	0.47
3:JF:187:LEU:HD21	3:JF:408:PHE:CE1	2.50	0.47
3:JF:318:ARG:HB3	3:JF:364:SER:OG	2.15	0.47
2:JG:2:ARG:CZ	2:JG:242:LEU:HA	2.44	0.47
2:JG:118:VAL:O	2:JG:122:ILE:HG12	2.15	0.47
2:JG:261:PRO:HA	3:JH:394:PHE:CE1	2.50	0.47
2:JG:297:GLU:CD	2:JG:299:ALA:H	2.17	0.47
3:JH:192:LEU:O	3:JH:196:THR:HG22	2.15	0.47
3:KF:11:GLN:HG3	25:KF:501:GTP:O5'	2.14	0.47
3:KH:11:GLN:HG3	25:KH:501:GTP:O5'	2.13	0.47
2:LE:280:LYS:NZ	2:LE:284:GLU:HG2	2.29	0.47
2:LG:262:TYR:HE1	3:LH:393:ALA:HA	1.78	0.47
2:LG:269:LEU:HD21	2:LG:305:CYS:SG	2.55	0.47
3:LH:36:TYR:CZ	3:LH:38:GLY:HA2	2.50	0.47
2:ME:208:ALA:N	2:ME:304:LYS:HZ1	2.12	0.47
3:MF:111:GLU:N	3:MF:111:GLU:OE1	2.47	0.47
2:MG:22:GLU:HG2	2:MG:83:TYR:HE2	1.79	0.47
3:ND:357:PRO:HB3	3:ND:362:LYS:O	2.14	0.47
2:NE:257:THR:HA	3:NF:397:TRP:CE2	2.50	0.47
3:NF:2:ARG:HE	3:NF:129:CYS:HB2	1.79	0.47
3:NF:271:ALA:HB2	3:NF:365:ALA:O	2.14	0.47
2:NI:99:ALA:H	2:NI:145:THR:HG22	1.80	0.47
3:OD:47:ILE:HG13	3:OD:51:TYR:HB2	1.96	0.47
2:OE:142:GLY:HA2	2:OE:186:ASN:OD1	2.13	0.47
2:OE:144:GLY:N	25:OE:501:GTP:O2B	2.45	0.47
3:OF:84:ILE:O	3:OF:86:ARG:NH1	2.47	0.47
2:OG:26:LEU:HG	2:OG:363:VAL:HG23	1.97	0.47
2:OG:236:SER:HB2	2:OG:243:ARG:HH22	1.79	0.47
3:OH:278:SER:HA	3:OH:281:TYR:HB2	1.96	0.47
2:OI:8:HIS:CD2	2:OI:17:GLY:HA3	2.50	0.47
2:OI:172:TYR:N	2:OI:204:VAL:O	2.27	0.47
19:P1:298:LEU:HA	19:P1:305:PHE:HB2	1.96	0.47
19:P1:488:TRP:CD1	19:P1:495:ARG:HA	2.49	0.47
19:P2:280:SER:C	19:P2:282:LYS:N	2.68	0.47
19:P2:336:GLN:HA	19:P2:591:MET:SD	2.55	0.47
3:PF:267:MET:HG2	3:PF:369:GLY:O	2.14	0.47
2:PG:396:ASP:HB3	2:PG:422:ARG:NH1	2.28	0.47
3:PH:77:ARG:HA	3:PH:77:ARG:HD2	1.76	0.47
2:PI:28:HIS:HB2	2:PI:30:ILE:HG12	1.97	0.47
2:QE:61:HIS:HD1	2:QE:61:HIS:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:36:TYR:CE2	3:QF:38:GLY:HA2	2.50	0.47
3:QF:117:LEU:HD11	3:QF:154:LYS:HD2	1.96	0.47
3:QF:420:SER:O	3:QF:424:GLN:HG3	2.13	0.47
3:QH:16:ILE:HG21	3:QH:167:PHE:CE2	2.49	0.47
3:QH:167:PHE:CE1	3:QH:202:ILE:HD13	2.49	0.47
2:QI:254:GLU:OE1	2:QI:254:GLU:N	2.44	0.47
2:QI:406:HIS:HE1	2:QI:407:TRP:CE2	2.32	0.47
3:RF:172:SER:HB3	3:RF:175:VAL:O	2.14	0.47
3:RH:178:THR:HB	3:RH:181:GLU:HB2	1.96	0.47
2:SG:224:TYR:HE2	25:SG:501:GTP:C5	2.32	0.47
3:TF:41:ASP:O	3:TF:44:LEU:N	2.47	0.47
3:TF:249:ASP:OD2	3:TF:251:ARG:HB3	2.15	0.47
2:TG:246:GLY:HA2	2:TG:357:TYR:CD2	2.48	0.47
2:TG:316:CYS:HB3	2:TG:378:LEU:HB2	1.96	0.47
2:TI:103:TYR:HB2	2:TI:186:ASN:HB2	1.97	0.47
2:TI:142:GLY:HA2	2:TI:186:ASN:OD1	2.15	0.47
2:TI:166:LYS:N	2:TI:199:ASP:OD2	2.48	0.47
2:TI:349:THR:HG23	3:TJ:179:VAL:HG12	1.97	0.47
2:UE:285:GLN:NE2	2:UE:286:LEU:O	2.48	0.47
3:UF:51:TYR:CB	3:UF:59:TYR:HB3	2.43	0.47
2:UG:430:LYS:HA	2:UG:433:GLU:OE1	2.15	0.47
3:UH:19:LYS:NZ	3:UH:223:GLY:O	2.38	0.47
3:VD:105:HIS:HA	3:VD:150:LEU:HD11	1.95	0.47
3:VD:378:PHE:O	3:VD:381:ILE:HG22	2.14	0.47
3:VD:409:THR:O	3:VD:412:GLU:HG3	2.15	0.47
2:VE:74:VAL:O	2:VE:77:GLU:HG2	2.14	0.47
2:VE:332:ILE:O	2:VE:336:LYS:HG3	2.14	0.47
3:VF:419:VAL:HG12	3:VF:423:GLN:NE2	2.18	0.47
2:VG:9:VAL:HG22	2:VG:146:GLY:HA2	1.96	0.47
2:VG:89:PRO:HD2	2:WG:280:LYS:NZ	2.28	0.47
3:VH:376:GLU:O	3:VH:379:LYS:HG2	2.15	0.47
2:WE:119:LEU:HD23	2:WE:122:ILE:HD11	1.97	0.47
3:WF:8:GLN:OE1	3:WF:65:LEU:HG	2.14	0.47
3:WF:41:ASP:N	3:WF:41:ASP:OD1	2.44	0.47
2:WG:231:ILE:O	2:WG:234:ILE:HB	2.14	0.47
2:WI:265:ILE:HB	2:WI:432:TYR:HE1	1.79	0.47
22:XC:82:ASN:HB3	22:XC:127:ASP:HA	1.96	0.47
22:XC:101:ARG:HH12	22:XC:146:THR:HG21	1.79	0.47
22:XE:76:LEU:HD11	22:XE:134:PHE:HD2	1.80	0.47
23:XJ:171:LEU:HA	23:XJ:174:TYR:CE2	2.50	0.47
23:XK:108:GLU:OE1	23:XK:108:GLU:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:128:VAL:HG22	1:A2:129:HIS:O	2.14	0.47
1:A2:174:ASP:O	1:A2:178:LYS:HG2	2.14	0.47
1:A2:214:LEU:O	1:A2:218:LEU:HG	2.14	0.47
1:A2:259:VAL:O	1:A2:262:GLU:HG3	2.13	0.47
1:A2:361:GLN:HE22	1:A3:34:SER:N	2.13	0.47
1:A3:162:ARG:HE	9:G2:166:LYS:NZ	2.13	0.47
1:A3:170:ASN:HA	1:A3:173:LYS:NZ	2.30	0.47
2:AE:326:LYS:CE	3:AF:219:THR:HA	2.44	0.47
3:AF:41:ASP:OD1	3:AF:42:LEU:N	2.47	0.47
2:AG:356:ASN:OD1	2:AG:357:TYR:N	2.48	0.47
2:AG:390:ARG:HA	2:AG:393:HIS:NE2	2.29	0.47
3:AH:20:PHE:CE1	3:AH:233:MET:HG3	2.49	0.47
2:AI:5:ILE:HB	2:AI:135:PHE:HD1	1.80	0.47
2:AI:380:ASN:OD1	2:AI:381:THR:N	2.48	0.47
4:B3:49:THR:O	4:B3:53:ILE:HG12	2.15	0.47
4:B7:160:GLN:HE21	6:D8:436:ARG:HH21	1.61	0.47
2:BE:51:THR:HG23	2:BE:52:PHE:CD1	2.45	0.47
3:BF:40:SER:O	3:BF:43:GLN:HG2	2.15	0.47
3:BF:132:GLY:HA2	3:BF:162:ARG:HB3	1.95	0.47
2:BG:211:ASP:HB2	2:BG:215:ARG:NH2	2.29	0.47
2:BG:315:CYS:HB3	2:BG:377:MET:CE	2.44	0.47
2:BI:161:TYR:HB3	2:BI:164:LYS:NZ	2.30	0.47
5:C2:145:ASN:O	5:C2:148:GLU:HG3	2.14	0.47
5:C3:309:LEU:HD23	5:C3:312:GLN:NE2	2.29	0.47
5:C3:357:ALA:CB	5:C3:462:LYS:HZ1	2.27	0.47
5:C4:384:LYS:HZ2	7:E3:76:TRP:HD1	1.61	0.47
5:C4:411:LEU:HD12	5:C4:411:LEU:O	2.15	0.47
5:C7:185:LEU:HA	5:C7:233:MET:HE3	1.97	0.47
5:C7:321:LEU:O	5:C7:325:THR:HG23	2.14	0.47
5:C7:339:GLN:HA	5:C7:342:LYS:HE3	1.95	0.47
3:CF:210:ILE:HA	3:CF:213:ARG:HB2	1.97	0.47
3:CF:285:THR:O	3:CF:288:GLU:HG3	2.14	0.47
3:CF:362:LYS:HG3	3:CF:363:MET:HG2	1.97	0.47
2:CG:27:GLU:OE1	2:CG:27:GLU:N	2.40	0.47
2:CI:1:MET:SD	2:CI:50:ASN:ND2	2.85	0.47
2:CI:306:ASP:HB3	2:CI:309:HIS:ND1	2.29	0.47
3:CJ:101:TRP:CZ3	3:CJ:187:LEU:HD22	2.49	0.47
6:D7:378:LEU:O	6:D7:381:VAL:HG22	2.15	0.47
3:DD:19:LYS:NZ	3:DD:227:HIS:HB2	2.30	0.47
3:DD:41:ASP:HB3	11:H3:273:THR:HG21	1.97	0.47
3:DD:318:ARG:HG2	3:DD:357:PRO:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:218:THR:OG1	3:DF:219:THR:N	2.48	0.47
3:DF:251:ARG:O	3:DF:255:VAL:HG22	2.14	0.47
3:DF:266:PHE:HB3	3:DF:368:ILE:HD11	1.97	0.47
3:DF:310:TYR:HD1	3:DF:371:SER:HB2	1.79	0.47
2:DG:28:HIS:CE1	2:DG:243:ARG:HD2	2.49	0.47
2:DG:141:PHE:HD2	2:DG:172:TYR:HA	1.80	0.47
2:DG:328:VAL:HG11	2:DG:353:VAL:HG21	1.97	0.47
3:DH:43:GLN:O	3:DH:47:ILE:HB	2.14	0.47
3:DH:68:LEU:HD12	3:DH:97:ALA:HB2	1.97	0.47
7:E3:76:TRP:H	7:E3:76:TRP:HE3	1.61	0.47
3:ED:232:THR:HB	3:ED:270:PHE:CE2	2.50	0.47
3:ED:394:PHE:HA	3:ED:397:TRP:CZ3	2.48	0.47
3:EF:2:ARG:HB2	3:EF:131:GLN:NE2	2.29	0.47
3:EF:7:LEU:HD13	3:EF:64:VAL:HB	1.97	0.47
3:EF:14:ASN:HD21	3:EF:67:ASP:HB2	1.79	0.47
3:EF:228:LEU:O	3:EF:232:THR:HG23	2.14	0.47
3:EF:372:THR:HG21	3:EF:426:GLN:HB3	1.97	0.47
3:EF:378:PHE:CE1	3:EF:419:VAL:HG22	2.48	0.47
2:EG:438:ASP:C	3:EH:391:ARG:HH22	2.18	0.47
3:EH:228:LEU:HG	9:G2:387:TYR:CZ	2.49	0.47
8:F2:357:LEU:HA	8:F2:360:GLN:OE1	2.15	0.47
8:F2:365:LEU:O	8:F2:368:ILE:HG12	2.14	0.47
8:F2:433:ARG:HH21	8:F3:120:SER:HB3	1.80	0.47
8:F7:170:MET:O	8:F7:173:LEU:HG	2.15	0.47
3:FD:150:LEU:C	3:FD:154:LYS:HZ2	2.17	0.47
3:FD:412:GLU:OE1	3:FD:416:ASN:ND2	2.45	0.47
2:FE:56:THR:HB	2:GE:285:GLN:HB2	1.96	0.47
2:FE:409:VAL:HA	2:FE:413:MET:O	2.15	0.47
3:FH:318:ARG:HG2	3:FH:358:PRO:HD3	1.97	0.47
9:G1:131:MET:HB2	9:G1:154:PHE:HE2	1.80	0.47
9:G2:393:SER:HA	9:G2:396:ASN:HD22	1.79	0.47
2:GE:48:SER:OG	2:GE:243:ARG:NH1	2.47	0.47
2:GE:145:THR:OG1	25:GE:501:GTP:O1B	2.32	0.47
2:GE:169:PHE:CZ	2:GE:231:ILE:HD11	2.49	0.47
2:GE:196:GLU:HG2	2:GE:197:HIS:CE1	2.49	0.47
2:GE:251:ASP:HB3	2:GE:254:GLU:OE1	2.14	0.47
3:GF:149:THR:CG2	3:GF:191:GLN:HE21	2.22	0.47
3:GF:415:MET:O	3:GF:418:LEU:HG	2.15	0.47
2:GG:283:HIS:ND1	2:GG:283:HIS:O	2.48	0.47
3:GH:106:TYR:HB2	3:GH:401:GLU:OE2	2.14	0.47
3:GH:246:LEU:HB3	3:GH:353:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:172:TYR:HB2	2:GI:203:MET:HB2	1.96	0.47
2:GI:189:LEU:HA	2:GI:192:HIS:HE1	1.77	0.47
11:H3:25:PRO:O	11:H3:42:LEU:HD22	2.15	0.47
11:H4:13:GLU:HB2	11:H4:14:PRO:HD3	1.97	0.47
11:H4:215:ARG:O	11:H4:241:THR:HB	2.14	0.47
11:H4:224:PHE:HB2	11:H4:228:PHE:HE2	1.80	0.47
2:HE:252:LEU:HA	2:HE:255:PHE:CD2	2.49	0.47
2:HE:287:SER:O	2:HE:291:ILE:HG23	2.15	0.47
2:HE:390:ARG:HA	2:HE:393:HIS:NE2	2.29	0.47
3:HF:131:GLN:O	3:HF:163:ILE:HD12	2.13	0.47
2:HG:326:LYS:HE3	3:HH:219:THR:HA	1.96	0.47
3:HH:20:PHE:CE2	3:HH:24:ILE:HD11	2.49	0.47
2:HI:3:GLU:OE2	2:HI:130:THR:N	2.46	0.47
2:HI:392:ASP:OD1	2:HI:393:HIS:N	2.48	0.47
2:IE:290:GLU:OE1	2:IE:290:GLU:N	2.30	0.47
3:IF:77:ARG:O	3:IF:82:GLY:HA3	2.15	0.47
3:IF:228:LEU:O	3:IF:232:THR:HG23	2.14	0.47
3:IF:322:SER:OG	3:IF:323:MET:N	2.48	0.47
2:IG:261:PRO:HB3	3:IH:394:PHE:CE1	2.49	0.47
2:IG:304:LYS:HD2	2:IG:304:LYS:N	2.29	0.47
2:IG:427:ALA:HA	2:IG:430:LYS:HG2	1.96	0.47
3:IH:172:SER:OG	3:IH:205:GLU:OE2	2.31	0.47
3:IH:327:ASP:O	3:IH:330:MET:HG3	2.15	0.47
2:II:202:PHE:HD1	2:II:268:PRO:HD2	1.80	0.47
13:J2:92:HIS:ND1	13:J2:95:GLU:OE2	2.48	0.47
13:J2:171:PRO:HG3	13:J2:187:GLU:OE2	2.15	0.47
3:JD:87:PRO:HA	3:JD:90:PHE:CD2	2.49	0.47
3:JD:139:LEU:N	3:JD:168:SER:HG	2.11	0.47
3:JD:164:MET:N	3:JD:164:MET:SD	2.88	0.47
3:JF:262:ARG:NH1	3:JF:417:ASP:OD2	2.48	0.47
2:JG:263:PRO:HB2	2:JG:264:ARG:NH1	2.30	0.47
2:JG:327:ASP:OD1	2:JG:328:VAL:N	2.48	0.47
3:JH:69:GLU:CD	3:JH:71:GLY:H	2.17	0.47
3:JH:377:LEU:HD12	3:JH:377:LEU:H	1.79	0.47
14:K3:187:LYS:HG3	14:K3:188:CYS:N	2.29	0.47
14:K3:250:GLN:HE22	14:K3:252:LEU:HD13	1.79	0.47
14:K3:254:LYS:O	14:K3:257:GLU:HG3	2.15	0.47
14:K3:362:HIS:HA	14:K3:365:MET:HG3	1.97	0.47
14:K3:476:GLN:HG3	14:K3:479:ARG:NH1	2.30	0.47
14:K4:139:ARG:HB3	14:K4:264:TRP:HZ2	1.79	0.47
14:K4:285:PRO:HB2	16:M3:77:CYS:SG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:156:ARG:O	2:KE:159:VAL:HG22	2.14	0.47
3:KH:260:PHE:CE1	2:KI:403:ALA:HA	2.50	0.47
3:LD:274:THR:HG21	3:LD:279:GLN:HA	1.97	0.47
2:LE:338:LYS:HZ3	2:LE:339:ARG:HB2	1.80	0.47
2:LE:349:THR:HG23	3:LF:179:VAL:HG12	1.96	0.47
3:LF:7:LEU:HD22	3:LF:135:LEU:HG	1.96	0.47
3:LF:164:MET:SD	3:LF:196:THR:HA	2.55	0.47
3:LF:211:CYS:SG	3:LF:220:PRO:HG3	2.54	0.47
2:LG:219:ILE:HG22	2:LG:222:PRO:HD3	1.96	0.47
2:LI:5:ILE:HB	2:LI:135:PHE:HD1	1.80	0.47
2:LI:5:ILE:HD13	2:LI:64:ARG:HB3	1.97	0.47
2:LI:132:LEU:HD11	2:LI:135:PHE:CE1	2.49	0.47
16:M2:80:TYR:HE2	16:M2:86:ASP:OD2	1.97	0.47
16:M3:101:ASP:OD1	16:M3:101:ASP:N	2.48	0.47
2:ME:121:ARG:CZ	2:ME:124:LYS:HE2	2.44	0.47
2:ME:160:ASP:OD1	2:ME:161:TYR:N	2.48	0.47
2:MG:437:VAL:HG13	18:O2:58:ALA:H	1.80	0.47
2:MI:166:LYS:N	2:MI:199:ASP:OD2	2.48	0.47
2:MI:174:ALA:HB3	2:MI:177:VAL:O	2.14	0.47
2:MI:313:MET:SD	2:MI:313:MET:N	2.87	0.47
17:N2:155:GLY:O	3:VD:48:ASN:ND2	2.48	0.47
3:ND:68:LEU:HD12	3:ND:97:ALA:HB2	1.96	0.47
2:NE:187:SER:O	2:NE:191:THR:HG23	2.14	0.47
2:NE:260:VAL:O	3:NF:397:TRP:HH2	1.97	0.47
3:NF:346:PRO:HD2	2:NG:398:MET:HE1	1.97	0.47
3:NF:349:VAL:C	3:NF:350:LYS:HZ2	2.17	0.47
2:NG:262:TYR:HE1	3:NH:393:ALA:HA	1.78	0.47
2:NG:386:GLU:O	2:NG:390:ARG:NH1	2.47	0.47
2:NI:248:LEU:HD23	2:NI:355:ILE:HB	1.96	0.47
2:NI:396:ASP:OD1	2:NI:397:LEU:N	2.46	0.47
18:O2:19:LEU:HD13	18:O2:21:ASN:HB2	1.96	0.47
18:O2:36:GLU:HA	20:Q2:1414:LEU:HD12	1.97	0.47
3:OD:12:CYS:HA	25:OD:501:GTP:N2	2.26	0.47
3:OD:52:ASN:CG	3:OD:62:ARG:HH11	2.18	0.47
2:OE:66:VAL:HG12	2:OE:68:VAL:HG13	1.97	0.47
2:OE:234:ILE:O	2:OE:237:SER:OG	2.28	0.47
2:OE:297:GLU:OE1	2:OE:300:ASN:N	2.48	0.47
2:OE:325:PRO:O	2:OE:329:ASN:ND2	2.48	0.47
3:OF:309:ARG:HB2	3:OF:426:GLN:HE21	1.80	0.47
3:OF:392:LYS:HD2	3:OF:392:LYS:O	2.15	0.47
2:OG:101:ASN:CB	2:OG:182:VAL:HG11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:132:LEU:O	2:OG:164:LYS:HE2	2.15	0.47
2:OG:208:ALA:HB3	2:OG:302:MET:HA	1.95	0.47
2:OG:209:ILE:HG21	2:OG:227:LEU:HG	1.97	0.47
2:OI:170:ALA:HB3	2:OI:203:MET:CE	2.44	0.47
2:OI:186:ASN:OD1	2:OI:187:SER:N	2.47	0.47
2:OI:252:LEU:HD12	2:OI:253:THR:N	2.30	0.47
2:OI:396:ASP:HB3	2:OI:422:ARG:NH2	2.30	0.47
19:P1:167:SER:OG	19:P1:168:ARG:N	2.48	0.47
19:P1:259:LEU:HD11	19:P1:275:PHE:HE1	1.79	0.47
19:P1:478:THR:HB	19:P1:488:TRP:CH2	2.50	0.47
19:P2:336:GLN:HB2	19:P2:351:CYS:SG	2.54	0.47
2:PE:5:ILE:HD12	2:PE:64:ARG:HB3	1.97	0.47
2:PE:186:ASN:OD1	2:PE:187:SER:N	2.48	0.47
3:PF:143:THR:HG22	3:PF:147:MET:CE	2.42	0.47
2:PG:30:ILE:HA	2:PG:36:MET:CE	2.44	0.47
2:PG:262:TYR:CE1	3:PH:393:ALA:HA	2.47	0.47
3:PH:130:LEU:HB2	3:PH:162:ARG:HH11	1.78	0.47
3:PH:140:GLY:HA2	3:PH:181:GLU:CD	2.35	0.47
2:PI:297:GLU:CD	2:PI:299:ALA:H	2.17	0.47
20:Q1:1434:PRO:O	20:Q1:1437:TYR:C	2.53	0.47
2:QE:21:TRP:HE3	2:QE:24:TYR:HD2	1.63	0.47
2:QE:109:THR:O	2:QE:112:LYS:NZ	2.47	0.47
3:QF:32:PRO:HA	3:QF:81:PHE:CE2	2.49	0.47
3:QF:52:ASN:O	3:QF:60:VAL:N	2.48	0.47
3:QF:375:GLN:HA	3:QF:378:PHE:CE1	2.49	0.47
2:QG:145:THR:HB	2:QG:149:PHE:CE2	2.50	0.47
2:QG:338:LYS:NZ	2:QG:339:ARG:H	2.12	0.47
3:QH:314:ALA:HA	3:QH:350:LYS:O	2.14	0.47
2:QI:125:LEU:O	2:QI:128:LEU:HG	2.15	0.47
2:RE:263:PRO:O	2:RE:264:ARG:HB2	2.15	0.47
2:RE:333:ALA:O	2:RE:337:THR:HG23	2.15	0.47
2:RE:356:ASN:OD1	2:RE:358:GLN:N	2.47	0.47
3:RF:8:GLN:OE1	3:RF:65:LEU:HD13	2.15	0.47
2:RG:183:GLU:HA	2:RG:186:ASN:ND2	2.30	0.47
2:RG:235:VAL:HA	2:RG:238:ILE:HG12	1.96	0.47
3:RH:6:HIS:HD2	3:RH:134:GLN:HG2	1.80	0.47
3:RH:102:ALA:O	3:RH:106:TYR:HD1	1.97	0.47
3:RH:117:LEU:HA	3:RH:120:VAL:HG22	1.97	0.47
2:RI:155:GLU:O	2:RI:159:VAL:HG13	2.14	0.47
2:RI:346:TRP:CE3	3:RJ:391:ARG:HD2	2.50	0.47
3:RJ:8:GLN:HG3	3:RJ:13:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:308:GLY:HA3	3:RJ:372:THR:OG1	2.14	0.47
3:SF:269:GLY:O	3:SF:367:PHE:N	2.44	0.47
2:SG:5:ILE:HB	2:SG:135:PHE:HD1	1.80	0.47
2:SG:210:TYR:CE1	2:SG:227:LEU:HD21	2.48	0.47
3:SH:188:SER:O	3:SH:192:LEU:HG	2.14	0.47
3:SH:263:LEU:HD12	3:SH:370:ASN:ND2	2.29	0.47
2:SI:21:TRP:HZ3	2:SI:53:PHE:CE1	2.32	0.47
2:SI:228:ASN:HA	2:SI:231:ILE:HG12	1.97	0.47
2:SI:251:ASP:HB3	2:SI:254:GLU:OE1	2.15	0.47
2:SI:330:ALA:O	2:SI:334:THR:HG23	2.15	0.47
3:SJ:40:SER:HB2	3:SJ:43:GLN:HG2	1.96	0.47
3:SJ:176:SER:O	3:SJ:178:THR:N	2.48	0.47
3:SJ:292:GLN:O	3:SJ:298:ASN:ND2	2.44	0.47
3:SJ:395:LEU:HD23	3:SJ:399:THR:HG23	1.96	0.47
3:TH:251:ARG:O	3:TH:255:VAL:HG22	2.15	0.47
3:TJ:233:MET:O	3:TJ:236:VAL:HG12	2.15	0.47
3:TJ:275:SER:O	3:TJ:279:GLN:NE2	2.48	0.47
3:TJ:334:GLN:HA	3:TJ:341:PHE:HE2	1.79	0.47
3:UD:139:LEU:N	3:UD:168:SER:OG	2.47	0.47
2:UE:5:ILE:HD11	2:UE:129:CYS:SG	2.54	0.47
2:UE:125:LEU:O	2:UE:128:LEU:HG	2.15	0.47
2:UE:170:ALA:O	2:UE:203:MET:HA	2.14	0.47
2:UG:208:ALA:HB2	2:UG:304:LYS:HE3	1.96	0.47
3:UH:1:MET:O	3:UH:129:CYS:HB2	2.15	0.47
3:UH:310:TYR:HB2	3:UH:341:PHE:HD1	1.80	0.47
3:VD:2:ARG:HB2	2:VE:96:LYS:HZ3	1.79	0.47
2:VE:155:GLU:O	2:VE:159:VAL:HG13	2.14	0.47
2:VE:252:LEU:HD12	2:VE:253:THR:N	2.30	0.47
2:VE:390:ARG:HH11	2:VE:394:LYS:NZ	2.13	0.47
3:VF:52:ASN:O	3:VF:60:VAL:N	2.48	0.47
3:VF:148:GLY:HA2	3:VF:151:LEU:HG	1.97	0.47
3:VF:315:ALA:O	3:VF:351:THR:HA	2.15	0.47
2:VG:16:ILE:HG13	2:VG:17:GLY:H	1.79	0.47
2:VG:209:ILE:HG21	2:VG:227:LEU:HG	1.96	0.47
2:VG:223:THR:OG1	2:VG:225:THR:OG1	2.17	0.47
2:VG:230:LEU:HA	2:VG:233:GLN:HG3	1.95	0.47
3:VH:4:ILE:HD11	3:VH:131:GLN:HB2	1.96	0.47
3:VH:6:HIS:CE1	3:VH:8:GLN:HG2	2.48	0.47
2:WE:52:PHE:HE2	2:WE:243:ARG:HH11	1.61	0.47
2:WE:166:LYS:O	2:WE:199:ASP:HB2	2.14	0.47
2:WE:257:THR:HA	3:WF:397:TRP:CZ2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WE:327:ASP:N	2:WE:327:ASP:OD1	2.47	0.47
2:WE:330:ALA:O	2:WE:334:THR:HG23	2.14	0.47
2:WE:408:TYR:HA	2:WE:411:GLU:HG3	1.95	0.47
2:WE:417:GLU:OE1	2:WE:417:GLU:N	2.28	0.47
3:WF:12:CYS:SG	25:WF:501:GTP:H5'	2.55	0.47
2:WG:2:ARG:NH1	2:WG:241:SER:O	2.47	0.47
2:WG:234:ILE:O	2:WG:238:ILE:HG23	2.14	0.47
2:WG:269:LEU:HD11	2:WG:384:ILE:HG21	1.95	0.47
2:WG:326:LYS:HA	2:WG:329:ASN:HD21	1.79	0.47
2:WG:389:ALA:HA	2:WG:392:ASP:OD2	2.14	0.47
3:WH:148:GLY:HA2	3:WH:151:LEU:HG	1.97	0.47
3:WH:187:LEU:O	3:WH:191:GLN:NE2	2.47	0.47
3:WH:226:ASN:HA	3:WH:229:VAL:HG22	1.97	0.47
2:WI:103:TYR:O	2:WI:107:HIS:HB2	2.14	0.47
2:WI:184:PRO:HB2	2:WI:395:PHE:HD1	1.80	0.47
2:WI:192:HIS:CE1	2:WI:193:THR:HG23	2.50	0.47
2:WI:208:ALA:N	2:WI:304:LYS:HZ1	2.12	0.47
2:WI:356:ASN:OD1	2:WI:357:TYR:N	2.47	0.47
22:XC:2:PHE:HB2	22:XC:5:THR:HG23	1.97	0.47
22:XC:81:LYS:HB2	22:XC:129:TRP:CD2	2.49	0.47
22:XC:160:CYS:SG	22:XC:162:ILE:HD11	2.55	0.47
22:XD:53:ASN:ND2	22:XD:55:SER:OG	2.40	0.47
22:XD:90:GLU:HG3	22:XD:104:ARG:HD3	1.95	0.47
22:XD:180:GLU:HG2	22:XD:181:PHE:CD1	2.50	0.47
23:XJ:116:HIS:O	23:XJ:119:LEU:HB2	2.14	0.47
23:XK:156:LEU:O	23:XK:160:VAL:HG23	2.14	0.47
24:YM:41:ARG:NH1	24:YM:44:SER:H	2.09	0.47
1:A3:102:LEU:HD21	1:A3:150:LEU:HB3	1.97	0.47
2:AG:88:HIS:CE1	2:AG:121:ARG:HH22	2.33	0.47
2:AG:166:LYS:N	2:AG:199:ASP:OD2	2.48	0.47
2:AI:12:ALA:O	25:AI:501:GTP:N2	2.48	0.47
4:B3:408:VAL:HG23	4:B3:409:ASP:N	2.30	0.47
4:B7:120:ARG:HA	4:B7:120:ARG:CZ	2.45	0.47
2:BE:48:SER:O	2:BE:51:THR:HG22	2.15	0.47
2:BE:107:HIS:HD2	2:BE:148:GLY:O	1.98	0.47
3:BF:380:ARG:O	3:BF:383:GLU:HG3	2.15	0.47
2:BG:287:SER:OG	2:BG:290:GLU:OE1	2.30	0.47
3:BH:211:CYS:SG	3:BH:220:PRO:HG3	2.55	0.47
5:C3:197:GLU:HA	5:C3:200:PHE:CD2	2.50	0.47
5:C8:257:ASP:O	5:C8:261:LYS:HG2	2.15	0.47
3:CF:1:MET:N	3:CF:128:ASP:OD2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:28:HIS:CE1	3:CJ:241:ARG:HD3	2.50	0.47
3:CJ:117:LEU:O	3:CJ:121:ARG:HG2	2.15	0.47
6:D3:290:ALA:O	6:D3:293:LEU:HG	2.15	0.47
6:D8:276:VAL:HG12	6:D8:280:LYS:HZ2	1.79	0.47
3:DD:40:SER:HB2	3:DD:43:GLN:CD	2.34	0.47
2:DE:262:TYR:HE1	3:DF:393:ALA:HA	1.80	0.47
2:DE:338:LYS:HZ2	2:DE:340:THR:N	2.10	0.47
3:DF:148:GLY:HA2	3:DF:151:LEU:HG	1.95	0.47
3:DF:238:THR:HG21	3:DF:318:ARG:NH1	2.29	0.47
2:DG:174:ALA:HB3	2:DG:177:VAL:O	2.14	0.47
3:ED:6:HIS:ND1	3:ED:8:GLN:OE1	2.47	0.47
3:ED:322:SER:CB	3:ED:324:LYS:HZ1	2.28	0.47
2:EE:297:GLU:CD	2:EE:299:ALA:H	2.18	0.47
3:EF:3:GLU:HG2	3:EF:130:LEU:HD23	1.96	0.47
3:EF:47:ILE:HD11	3:EF:51:TYR:CD2	2.49	0.47
8:F2:366:GLN:HA	8:F2:369:PHE:CE2	2.50	0.47
8:F7:404:ASN:CG	8:F7:405:VAL:H	2.19	0.47
3:FD:228:LEU:O	3:FD:232:THR:HG23	2.15	0.47
2:FE:263:PRO:O	2:FE:265:ILE:N	2.48	0.47
2:FE:306:ASP:OD2	2:FE:309:HIS:N	2.48	0.47
3:FF:324:LYS:HD2	2:FG:221:ARG:HA	1.95	0.47
3:FH:12:CYS:SG	3:FH:13:GLY:N	2.88	0.47
9:G1:5:PRO:HG2	9:G1:7:HIS:CE1	2.50	0.47
10:G5:25:HIS:HA	10:G5:40:LYS:HZ2	1.79	0.47
10:G5:470:GLU:N	10:G5:475:ASN:HD21	2.12	0.47
10:G5:576:VAL:O	10:G5:734:ARG:NH2	2.48	0.47
2:GE:9:VAL:HA	2:GE:68:VAL:HG23	1.97	0.47
3:GH:6:HIS:CE1	3:GH:8:GLN:HE21	2.27	0.47
3:GH:156:ARG:CZ	3:GH:195:ASN:HA	2.45	0.47
3:GH:218:THR:C	3:GH:220:PRO:HD3	2.35	0.47
2:GI:89:PRO:HB2	2:GI:90:GLU:OE1	2.13	0.47
11:H4:214:GLN:H	11:H4:214:GLN:CD	2.16	0.47
2:HE:172:TYR:CD1	2:HE:173:PRO:HD2	2.49	0.47
3:HF:256:ASN:HB3	3:HF:350:LYS:HG3	1.97	0.47
3:HH:278:SER:O	3:HH:282:ARG:HB2	2.14	0.47
2:HI:224:TYR:HB3	2:HI:228:ASN:HD21	1.79	0.47
2:IE:229:ARG:NH1	2:IE:233:GLN:HB2	2.29	0.47
3:IF:349:VAL:O	3:IF:350:LYS:NZ	2.32	0.47
3:IF:376:GLU:O	3:IF:380:ARG:HB2	2.15	0.47
2:IG:115:VAL:HA	2:IG:118:VAL:HG22	1.96	0.47
2:JG:332:ILE:HG13	2:JG:336:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:15:ARG:HH21	14:K3:16:VAL:HG23	1.79	0.47
3:KD:63:ALA:O	3:KD:89:ASN:ND2	2.48	0.47
3:KD:217:LEU:O	3:KD:217:LEU:HD23	2.14	0.47
2:KE:285:GLN:NE2	2:KE:286:LEU:O	2.47	0.47
2:KE:419:SER:O	2:KE:422:ARG:HG2	2.14	0.47
15:L2:157:TYR:CZ	2:MG:396:ASP:HB2	2.50	0.47
3:LD:41:ASP:O	3:LD:44:LEU:N	2.48	0.47
3:LD:117:LEU:O	3:LD:121:ARG:HG2	2.15	0.47
3:LH:36:TYR:OH	3:LH:38:GLY:HA2	2.15	0.47
2:LI:208:ALA:HB2	2:LI:304:LYS:HE3	1.97	0.47
2:LI:401:LYS:C	2:LI:402:ARG:HD3	2.35	0.47
2:ME:196:GLU:HG2	2:ME:197:HIS:ND1	2.30	0.47
3:MF:173:PRO:HA	3:MF:380:ARG:NH2	2.29	0.47
2:MG:171:ILE:HD12	2:MG:204:VAL:HG13	1.96	0.47
2:MI:28:HIS:HE2	2:MI:48:SER:HG	1.57	0.47
3:ND:197:ASP:OD1	3:ND:198:GLU:N	2.44	0.47
3:NF:6:HIS:HD2	3:NF:134:GLN:HG2	1.80	0.47
3:NF:137:HIS:O	3:NF:168:SER:HA	2.14	0.47
2:NG:213:CYS:O	2:NG:219:ILE:N	2.41	0.47
3:NH:101:TRP:CE3	3:NH:187:LEU:HD13	2.49	0.47
2:OE:8:HIS:CE1	2:OE:65:ALA:HB1	2.50	0.47
3:OF:39:ASP:HA	24:YK:17:LEU:HD11	1.97	0.47
3:OF:134:GLN:N	3:OF:134:GLN:OE1	2.46	0.47
3:OH:2:ARG:HB3	3:OH:131:GLN:CD	2.34	0.47
3:OH:20:PHE:CZ	3:OH:24:ILE:HD11	2.49	0.47
3:OH:34:GLY:HA3	3:OH:58:LYS:NZ	2.30	0.47
3:OH:137:HIS:CE1	3:OH:168:SER:HB2	2.50	0.47
19:P1:333:GLU:HG3	19:P1:353:LYS:HB3	1.97	0.47
19:P2:616:TYR:HE2	19:P2:619:ALA:C	2.19	0.47
2:PE:192:HIS:CE1	2:PE:193:THR:HG23	2.50	0.47
3:PF:41:ASP:CG	24:YJ:20:GLN:HG2	2.35	0.47
2:PG:247:ALA:HB3	2:PG:355:ILE:HB	1.96	0.47
2:PI:82:THR:HB	24:YM:123:ASN:ND2	2.29	0.47
20:Q1:1379:SER:O	20:Q1:1383:ILE:HG23	2.15	0.47
20:Q2:1400:ILE:HG13	20:Q2:1401:GLN:N	2.29	0.47
2:QE:88:HIS:O	2:QE:91:GLN:HG3	2.15	0.47
2:QE:281:ALA:HB2	2:QE:369:ALA:HB1	1.96	0.47
3:QF:385:PHE:HA	3:QF:388:MET:CE	2.44	0.47
2:QG:6:SER:O	2:QG:65:ALA:HA	2.15	0.47
2:QG:11:GLN:HE21	25:QG:501:GTP:PA	2.38	0.47
2:QG:192:HIS:CE1	2:QG:193:THR:HG23	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:378:PHE:HA	3:QH:381:ILE:HG22	1.97	0.47
2:QI:269:LEU:HD11	2:QI:384:ILE:HG21	1.97	0.47
3:RF:7:LEU:HD22	3:RF:135:LEU:HD23	1.96	0.47
2:RG:66:VAL:HG22	2:RG:91:GLN:HG2	1.97	0.47
2:RG:72:PRO:HD3	2:RG:96:LYS:HA	1.97	0.47
3:RH:375:GLN:O	3:RH:379:LYS:HB2	2.15	0.47
2:RI:1:MET:O	2:RI:131:GLY:HA3	2.14	0.47
2:RI:344:VAL:HB	2:RI:346:TRP:HD1	1.79	0.47
3:RJ:68:LEU:HA	3:RJ:93:GLY:H	1.80	0.47
2:SE:195:LEU:HD22	2:SE:428:LEU:HD11	1.96	0.47
2:SG:30:ILE:HD13	2:SG:36:MET:HE3	1.97	0.47
2:SG:139:HIS:CE1	2:SG:170:ALA:HB2	2.50	0.47
2:SG:196:GLU:HG2	2:SG:197:HIS:ND1	2.30	0.47
2:SG:212:ILE:HD11	2:SG:230:LEU:HD13	1.96	0.47
2:SG:317:MET:HA	2:SG:377:MET:HE2	1.97	0.47
2:SI:88:HIS:HB3	2:SI:91:GLN:HB2	1.96	0.47
3:SJ:11:GLN:HG3	25:SJ:501:GTP:PA	2.54	0.47
3:TF:233:MET:HA	3:TF:236:VAL:HG12	1.97	0.47
2:TG:144:GLY:N	25:TG:501:GTP:O2B	2.46	0.47
2:TG:210:TYR:CE1	2:TG:227:LEU:HD11	2.50	0.47
2:UG:417:GLU:OE1	2:UG:417:GLU:N	2.45	0.47
3:UH:187:LEU:O	3:UH:191:GLN:NE2	2.47	0.47
3:VF:11:GLN:OE1	25:VF:501:GTP:N2	2.47	0.47
3:VF:186:THR:HA	3:VF:189:VAL:HG12	1.96	0.47
3:VH:318:ARG:HD3	3:VH:358:PRO:HG3	1.97	0.47
2:WE:11:GLN:HB2	25:WE:501:GTP:PB	2.55	0.47
2:WE:31:GLN:OE1	2:WE:37:PRO:HD3	2.14	0.47
2:WE:119:LEU:HA	2:WE:122:ILE:HG12	1.95	0.47
2:WE:214:ARG:NH1	2:WE:215:ARG:HG3	2.30	0.47
2:WE:346:TRP:HE1	3:WF:391:ARG:NH1	2.13	0.47
3:WF:12:CYS:CA	3:WF:15:GLN:HE21	2.28	0.47
3:WF:12:CYS:HB3	25:WF:501:GTP:O4'	2.15	0.47
3:WF:322:SER:OG	3:WF:323:MET:N	2.48	0.47
2:WG:288:VAL:HA	2:WG:291:ILE:HG12	1.96	0.47
2:WG:348:PRO:HG2	3:WH:384:GLN:OE1	2.15	0.47
3:WH:130:LEU:HB2	3:WH:162:ARG:HH11	1.80	0.47
3:WH:267:MET:O	3:WH:368:ILE:HD12	2.14	0.47
2:WI:33:ASP:OD1	2:WI:34:GLY:N	2.47	0.47
22:XC:39:ASP:O	22:XC:43:GLN:HA	2.14	0.47
23:XK:174:TYR:HB3	23:XK:178:LEU:HD11	1.96	0.47
24:YI:109:ASP:OD1	24:YI:109:ASP:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YI:142:PRO:HA	24:YI:145:LEU:HG	1.96	0.47
2:AE:287:SER:OG	2:AE:290:GLU:OE1	2.33	0.47
3:AH:249:ASP:OD2	3:AH:251:ARG:HB2	2.15	0.47
4:B2:417:ARG:HA	4:B2:417:ARG:HH11	1.80	0.47
4:B3:268:ARG:HD3	4:B3:271:GLU:OE2	2.15	0.47
2:BE:115:VAL:HG21	2:BE:156:ARG:HD3	1.96	0.47
2:BE:327:ASP:N	2:BE:327:ASP:OD1	2.48	0.47
3:BF:330:MET:SD	3:BF:349:VAL:HG21	2.55	0.47
2:BG:263:PRO:O	2:BG:264:ARG:HB2	2.15	0.47
3:BH:31:ASP:N	3:BH:31:ASP:OD1	2.47	0.47
3:BH:229:VAL:O	3:BH:232:THR:OG1	2.27	0.47
2:BI:174:ALA:HB3	2:BI:177:VAL:O	2.14	0.47
5:C2:124:THR:O	5:C2:128:ILE:HG12	2.15	0.47
5:C7:115:HIS:O	5:C7:119:ARG:HG2	2.15	0.47
5:C8:378:THR:O	5:C8:381:SER:OG	2.22	0.47
3:CF:16:ILE:HD13	3:CF:226:ASN:ND2	2.29	0.47
3:CF:375:GLN:HA	3:CF:378:PHE:CE1	2.50	0.47
2:CG:32:PRO:O	2:CG:85:GLN:NE2	2.48	0.47
3:CH:330:MET:HA	3:CH:333:VAL:HG12	1.97	0.47
2:CI:234:ILE:O	2:CI:238:ILE:HG23	2.14	0.47
3:CJ:8:GLN:HE21	3:CJ:65:LEU:CB	2.28	0.47
3:CJ:269:GLY:N	3:CJ:367:PHE:O	2.48	0.47
3:CJ:405:GLU:O	3:CJ:409:THR:HG23	2.14	0.47
6:D3:232:THR:OG1	9:G2:51:ARG:NH1	2.45	0.47
6:D4:358:TYR:O	6:D4:361:SER:OG	2.27	0.47
3:DF:24:ILE:O	3:DF:27:GLU:HG2	2.15	0.47
3:DF:87:PRO:HD2	3:EF:281:TYR:HE2	1.79	0.47
3:DF:263:LEU:HD12	3:DF:370:ASN:OD1	2.15	0.47
2:DG:50:ASN:O	2:DG:64:ARG:NH1	2.43	0.47
3:DH:52:ASN:ND2	3:DH:62:ARG:HD3	2.30	0.47
3:DH:113:VAL:HA	3:DH:116:VAL:HG22	1.95	0.47
3:ED:176:SER:OG	3:ED:178:THR:O	2.24	0.47
2:EG:115:VAL:HA	2:EG:118:VAL:HG22	1.97	0.47
8:F7:399:ARG:CZ	8:F7:413:GLN:HE21	2.28	0.47
8:F7:474:LYS:HG3	8:F7:475:SER:N	2.30	0.47
3:FD:109:GLY:HA2	3:FD:112:LEU:HG	1.97	0.47
2:FE:6:SER:O	2:FE:65:ALA:HA	2.15	0.47
3:FF:40:SER:O	3:FF:43:GLN:HG2	2.14	0.47
2:FG:160:ASP:OD1	2:FG:161:TYR:N	2.47	0.47
3:FH:371:SER:OG	3:FH:372:THR:N	2.47	0.47
9:G1:478:PRO:HB2	9:G1:480:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:99:PHE:HB2	9:G2:122:ILE:HB	1.97	0.47
9:G2:102:TYR:CD2	9:G2:117:ILE:HD11	2.47	0.47
9:G2:485:TYR:CE1	9:G2:496:ILE:HG23	2.50	0.47
10:G5:647:ARG:NE	10:G5:647:ARG:HA	2.30	0.47
3:GD:170:VAL:N	3:GD:202:ILE:O	2.41	0.47
2:GE:119:LEU:HB3	2:GE:123:ARG:NH2	2.30	0.47
2:GE:208:ALA:H	2:GE:304:LYS:NZ	2.13	0.47
3:GF:1:MET:HG2	3:GF:46:ARG:NH2	2.30	0.47
3:GF:5:VAL:HB	3:GF:133:PHE:CD1	2.50	0.47
3:GF:31:ASP:OD2	3:GF:35:THR:OG1	2.32	0.47
3:GH:260:PHE:HE2	3:GH:425:TYR:CE1	2.33	0.47
11:H3:17:ILE:HG13	11:H3:18:PRO:HD2	1.97	0.47
11:H3:39:THR:HA	11:H3:42:LEU:HD12	1.96	0.47
3:HF:64:VAL:HA	3:HF:89:ASN:HB2	1.96	0.47
3:HF:378:PHE:HE1	3:HF:419:VAL:HG13	1.79	0.47
2:HI:335:ILE:O	2:HI:341:ILE:HD11	2.15	0.47
3:IF:272:PRO:HD3	3:IF:289:LEU:HD11	1.97	0.47
3:IF:383:GLU:HG2	3:IF:384:GLN:N	2.30	0.47
2:IG:105:ARG:HG3	2:IG:109:THR:OG1	2.14	0.47
3:IH:378:PHE:CE1	3:IH:419:VAL:HA	2.49	0.47
3:JD:275:SER:N	3:JD:278:SER:OG	2.44	0.47
3:JF:4:ILE:HB	3:JF:50:TYR:HE1	1.80	0.47
3:JF:233:MET:HA	3:JF:236:VAL:HG12	1.96	0.47
14:K2:344:LEU:O	14:K2:348:GLU:HG2	2.14	0.47
14:K2:406:GLY:H	16:M2:60:TRP:HZ2	1.63	0.47
2:KE:76:ASP:O	2:KE:80:THR:HG23	2.15	0.47
2:KE:252:LEU:HA	2:KE:255:PHE:CD2	2.50	0.47
2:KE:254:GLU:HB3	3:KF:98:GLY:HA2	1.96	0.47
2:KE:401:LYS:C	2:KE:402:ARG:HD3	2.35	0.47
3:KF:233:MET:O	3:KF:236:VAL:HG12	2.15	0.47
2:KG:207:GLU:HB2	2:KG:304:LYS:HZ3	1.80	0.47
3:KH:203:ASP:OD2	3:KH:205:GLU:HB2	2.15	0.47
15:L2:76:LYS:HE3	2:LE:416:GLY:HA3	1.97	0.47
15:L2:222:PRO:O	15:L2:226:ARG:NE	2.32	0.47
2:LE:35:GLN:HE21	2:LE:60:LYS:HG2	1.79	0.47
2:LE:117:LEU:O	2:LE:121:ARG:HG2	2.14	0.47
2:LE:123:ARG:NH1	2:LE:161:TYR:OH	2.41	0.47
3:LH:324:LYS:O	3:LH:328:GLU:OE1	2.33	0.47
3:LH:375:GLN:H	3:LH:375:GLN:CD	2.17	0.47
2:LI:311:LYS:HE3	2:LI:344:VAL:HG12	1.97	0.47
16:M3:73:GLN:HA	16:M3:76:ALA:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:27:GLU:N	2:MG:27:GLU:OE1	2.47	0.47
3:MH:375:GLN:HA	3:MH:378:PHE:CE1	2.50	0.47
17:N3:65:LYS:HG3	17:N3:66:ILE:HG13	1.97	0.47
3:ND:223:GLY:HA2	3:ND:226:ASN:OD1	2.15	0.47
3:NF:17:GLY:O	3:NF:21:TRP:HD1	1.97	0.47
3:NF:31:ASP:OD2	3:NF:33:THR:OG1	2.32	0.47
3:NF:54:ALA:HB3	3:NF:58:LYS:HB3	1.96	0.47
2:NG:233:GLN:HE22	2:NG:234:ILE:HD13	1.80	0.47
3:NH:247:ASN:HB3	3:NH:252:LYS:CD	2.44	0.47
2:NI:89:PRO:HG2	2:OI:280:LYS:HZ3	1.80	0.47
18:O2:29:LYS:HB2	18:O2:31:LYS:HE2	1.97	0.47
2:OE:68:VAL:HB	2:OE:149:PHE:HE2	1.80	0.47
2:OG:175:PRO:HG2	2:OG:304:LYS:HB2	1.97	0.47
3:OH:101:TRP:HB2	3:OH:184:ASN:HD22	1.79	0.47
2:OI:358:GLN:NE2	2:OI:359:PRO:O	2.47	0.47
19:P1:34:PRO:HG2	19:P1:75:GLU:C	2.35	0.47
19:P1:392:ALA:HB1	19:P1:420:VAL:CG1	2.45	0.47
19:P1:559:HIS:CE1	19:P1:580:THR:HG21	2.49	0.47
19:P2:538:ARG:NH2	19:P2:540:LEU:HD21	2.30	0.47
3:PF:21:TRP:CZ2	3:PF:63:ALA:HB2	2.50	0.47
3:PF:239:CYS:HB3	3:PF:248:ALA:HB1	1.95	0.47
3:PF:334:GLN:O	3:PF:338:SER:OG	2.20	0.47
3:PF:380:ARG:O	3:PF:384:GLN:HG2	2.15	0.47
3:PF:419:VAL:HG12	3:PF:423:GLN:NE2	2.21	0.47
2:PG:227:LEU:O	2:PG:230:LEU:HG	2.15	0.47
3:PH:156:ARG:NH1	3:PH:157:GLU:HB3	2.30	0.47
3:PH:216:LYS:HB3	3:PH:276:ARG:NH2	2.29	0.47
3:PH:347:ASN:C	3:PH:349:VAL:H	2.17	0.47
2:PI:272:TYR:CE1	2:PI:374:ALA:HB1	2.46	0.47
2:PI:326:LYS:HA	2:PI:329:ASN:HD21	1.79	0.47
2:PI:331:ALA:O	2:PI:334:THR:OG1	2.25	0.47
20:Q1:1396:TYR:O	20:Q1:1400:ILE:HG12	2.15	0.47
2:QE:21:TRP:HZ3	2:QE:52:PHE:HD2	1.62	0.47
2:QG:190:THR:O	2:QG:194:THR:OG1	2.16	0.47
2:QI:21:TRP:HD1	2:QI:53:PHE:HE1	1.63	0.47
2:QI:31:GLN:OE1	2:QI:37:PRO:HD3	2.14	0.47
2:QI:305:CYS:SG	2:QI:384:ILE:HA	2.55	0.47
21:R2:271:ARG:NH1	21:R2:280:TYR:HE2	2.12	0.47
2:RE:227:LEU:O	2:RE:231:ILE:HD12	2.15	0.47
3:RF:173:PRO:O	3:RF:380:ARG:NH2	2.48	0.47
2:RG:5:ILE:O	2:RG:135:PHE:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RG:22:GLU:O	2:RG:26:LEU:HD23	2.15	0.47
3:RH:2:ARG:HA	3:RH:129:CYS:O	2.14	0.47
2:RI:101:ASN:HD22	2:RI:144:GLY:HA2	1.79	0.47
3:RJ:183:TYR:HA	3:RJ:385:PHE:HE1	1.80	0.47
2:SE:3:GLU:N	2:SE:133:GLN:OE1	2.48	0.47
3:SF:46:ARG:HG3	3:SF:241:ARG:O	2.15	0.47
3:SF:213:ARG:O	3:SF:216:LYS:HE2	2.14	0.47
3:SH:240:LEU:HD22	3:SH:248:ALA:HB1	1.96	0.47
3:SH:247:ASN:ND2	3:SH:252:LYS:HE2	2.30	0.47
2:SI:351:PHE:CE1	3:SJ:175:VAL:HG21	2.49	0.47
2:TG:399:TYR:HH	2:TG:419:SER:HG	1.55	0.47
2:TI:23:LEU:O	2:TI:26:LEU:HB2	2.14	0.47
2:TI:252:LEU:HD12	2:TI:253:THR:N	2.30	0.47
3:TJ:52:ASN:CG	3:TJ:62:ARG:HD3	2.35	0.47
3:TJ:267:MET:HB2	3:TJ:369:GLY:O	2.15	0.47
3:UD:118:ASP:O	3:UD:122:LYS:HG3	2.15	0.47
2:UE:247:ALA:HB3	2:UE:355:ILE:HB	1.95	0.47
3:VD:172:SER:OG	3:VD:205:GLU:OE2	2.20	0.47
3:VH:322:SER:OG	3:VH:324:LYS:HG2	2.13	0.47
3:WF:5:VAL:HG21	3:WF:123:GLU:OE1	2.15	0.47
3:WF:157:GLU:HG2	3:WF:158:GLU:N	2.29	0.47
2:WG:4:CYS:SG	2:WG:134:GLY:N	2.88	0.47
2:WI:222:PRO:HB3	2:WI:226:ASN:HD22	1.80	0.47
2:WI:317:MET:N	2:WI:317:MET:SD	2.88	0.47
2:WI:323:VAL:HG12	2:WI:324:VAL:H	1.79	0.47
22:XD:125:LEU:HD22	22:XD:130:ASN:ND2	2.30	0.47
22:XE:39:ASP:OD1	22:XE:41:ASP:N	2.47	0.47
23:XJ:135:ILE:HB	23:XJ:136:PRO:HD3	1.96	0.47
23:XL:88:ASP:OD1	23:XL:90:HIS:N	2.48	0.47
24:YK:152:ILE:HA	24:YK:155:SER:HB2	1.97	0.47
24:YM:46:ILE:HB	24:YM:106:GLN:OE1	2.14	0.47
24:YM:121:VAL:O	24:YM:125:LEU:HG	2.15	0.47
2:AE:202:PHE:CD1	2:AE:268:PRO:HD2	2.49	0.47
3:AF:117:LEU:HA	3:AF:120:VAL:HG12	1.96	0.47
3:AF:265:PHE:O	3:AF:370:ASN:ND2	2.48	0.47
3:AH:382:SER:O	3:AH:386:THR:HG23	2.15	0.47
2:AI:99:ALA:O	2:AI:105:ARG:HD3	2.15	0.47
2:AI:224:TYR:CE1	25:AI:501:GTP:C5	2.95	0.47
4:B3:101:GLN:HG3	7:E2:67:LEU:HD11	1.97	0.47
4:B3:261:THR:O	4:B3:264:THR:OG1	2.28	0.47
4:B7:218:TRP:NE1	4:B8:330:CYS:HB3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:68:VAL:HG12	2:BE:93:ILE:HB	1.96	0.47
2:BE:116:ASP:N	2:BE:116:ASP:OD1	2.46	0.47
2:BG:171:ILE:HD12	2:BG:204:VAL:O	2.14	0.47
2:BG:414:GLU:N	2:BG:414:GLU:OE1	2.48	0.47
3:BH:48:ASN:HD21	11:H4:23:PHE:CB	2.26	0.47
2:BI:102:ASN:HB3	2:BI:105:ARG:HB2	1.97	0.47
2:BI:119:LEU:HB3	2:BI:123:ARG:NH1	2.29	0.47
5:C3:275:ARG:NH1	5:C3:277:THR:OG1	2.48	0.47
5:C7:290:VAL:HG12	7:E2:34:LEU:HD11	1.97	0.47
3:CF:11:GLN:HG3	25:CF:501:GTP:O5'	2.15	0.47
3:CF:249:ASP:OD2	3:CF:251:ARG:HB3	2.14	0.47
3:CF:324:LYS:HE2	2:CG:222:PRO:CG	2.42	0.47
3:CH:349:VAL:O	3:CH:350:LYS:HE2	2.15	0.47
2:CI:155:GLU:O	2:CI:159:VAL:HG13	2.15	0.47
2:CI:166:LYS:HB3	2:CI:168:GLU:OE2	2.15	0.47
6:D8:142:LEU:O	6:D8:145:THR:OG1	2.27	0.47
6:D8:440:VAL:HG11	8:F2:370:GLN:HB2	1.97	0.47
6:D8:444:ALA:HB1	6:D8:447:GLN:HG2	1.97	0.47
2:DE:187:SER:O	2:DE:190:THR:OG1	2.28	0.47
2:DE:252:LEU:HA	2:DE:255:PHE:CD2	2.49	0.47
2:DG:331:ALA:O	2:DG:335:ILE:HG12	2.15	0.47
3:EF:375:GLN:HA	3:EF:378:PHE:CZ	2.50	0.47
2:EG:35:GLN:OE1	2:EG:60:LYS:NZ	2.44	0.47
3:EH:217:LEU:HD11	3:EH:220:PRO:HB3	1.96	0.47
3:EH:251:ARG:O	3:EH:255:VAL:HG22	2.15	0.47
8:F7:371:ALA:O	8:F7:374:THR:OG1	2.25	0.47
3:FD:36:TYR:CZ	3:FD:38:GLY:HA2	2.50	0.47
2:FE:265:ILE:HD12	2:FE:432:TYR:CE1	2.50	0.47
2:FG:46:ASP:HA	2:FG:50:ASN:HB3	1.96	0.47
2:FG:107:HIS:ND1	2:FG:107:HIS:O	2.48	0.47
2:FG:167:LEU:HD13	2:FG:200:CYS:HB2	1.97	0.47
9:G1:271:ASP:O	9:G1:296:ARG:NH1	2.49	0.47
10:G5:5:PHE:CZ	3:MH:26:ASP:HB3	2.50	0.47
10:G5:25:HIS:O	10:G5:26:TRP:HD1	1.98	0.47
10:G5:637:MET:O	10:G5:641:ASN:ND2	2.48	0.47
3:GD:261:PRO:HG3	2:GE:406:HIS:ND1	2.30	0.47
3:GF:321:MET:SD	3:GF:321:MET:N	2.88	0.47
2:GG:356:ASN:HD21	2:GG:358:GLN:HB3	1.79	0.47
2:HE:430:LYS:HA	2:HE:433:GLU:CD	2.36	0.47
3:HF:247:ASN:ND2	25:HG:501:GTP:O3G	2.48	0.47
3:HF:313:VAL:HG23	3:HF:349:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:375:GLN:NE2	3:HF:422:TYR:HB3	2.30	0.47
3:HH:41:ASP:O	3:HH:44:LEU:N	2.47	0.47
3:HH:197:ASP:OD1	3:HH:198:GLU:N	2.48	0.47
3:HH:325:GLU:HB3	2:HI:221:ARG:NH1	2.30	0.47
2:IG:24:TYR:HE1	2:IG:243:ARG:NH1	2.13	0.47
2:IG:226:ASN:ND2	2:IG:367:ASP:OD2	2.48	0.47
2:II:191:THR:HA	2:II:194:THR:HG22	1.96	0.47
13:J2:130:ASP:N	13:J2:130:ASP:OD1	2.48	0.47
13:J2:177:ASN:HA	13:J2:180:GLU:HB2	1.96	0.47
3:JD:249:ASP:OD1	3:JD:250:LEU:N	2.47	0.47
2:JE:5:ILE:HB	2:JE:135:PHE:CD1	2.46	0.47
14:K3:374:THR:O	14:K3:378:ILE:HG12	2.15	0.47
3:KH:148:GLY:HA2	3:KH:151:LEU:HB2	1.97	0.47
3:KH:198:GLU:HG2	3:KH:266:PHE:CE2	2.50	0.47
2:KI:175:PRO:HB3	2:KI:390:ARG:NE	2.30	0.47
2:KI:388:TRP:CE3	2:KI:391:LEU:HD21	2.50	0.47
15:L3:186:LYS:HE3	15:L3:254:ASN:OD1	2.15	0.47
3:LF:130:LEU:O	3:LF:162:ARG:NH1	2.47	0.47
2:LG:89:PRO:HD3	2:MG:283:HIS:NE2	2.30	0.47
2:LG:132:LEU:HD12	2:LG:132:LEU:O	2.15	0.47
2:LG:264:ARG:NH2	18:O2:83:ALA:O	2.46	0.47
3:LH:6:HIS:CE1	3:LH:8:GLN:HE21	2.33	0.47
2:LI:89:PRO:HD2	2:MI:280:LYS:NZ	2.21	0.47
2:ME:51:THR:HG23	2:ME:52:PHE:HD2	1.80	0.47
2:ME:338:LYS:HZ2	2:ME:340:THR:N	2.11	0.47
3:MF:252:LYS:O	3:MF:256:ASN:ND2	2.48	0.47
2:MG:228:ASN:HA	2:MG:231:ILE:HG12	1.97	0.47
2:MG:326:LYS:NZ	3:MH:208:TYR:HA	2.30	0.47
3:MH:405:GLU:HA	3:MH:408:PHE:HD2	1.79	0.47
17:N2:87:LYS:NZ	17:N2:91:GLU:HG2	2.30	0.47
3:ND:180:VAL:HG13	3:ND:184:ASN:OD1	2.14	0.47
3:ND:218:THR:OG1	3:ND:219:THR:N	2.48	0.47
2:NE:333:ALA:O	2:NE:337:THR:HG23	2.15	0.47
3:NF:344:TRP:HA	2:NG:401:LYS:HE2	1.97	0.47
3:NF:414:ASN:O	3:NF:418:LEU:HG	2.15	0.47
2:NG:317:MET:HE1	2:NG:351:PHE:HB3	1.96	0.47
3:NH:6:HIS:HB2	3:NH:134:GLN:NE2	2.30	0.47
3:NH:246:LEU:HD22	3:NH:354:CYS:HA	1.97	0.47
2:NI:54:SER:H	2:NI:62:VAL:H	1.62	0.47
3:OD:130:LEU:HB2	3:OD:162:ARG:NH1	2.28	0.47
2:OE:34:GLY:HA2	2:OE:86:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:235:VAL:O	2:OE:238:ILE:HG12	2.15	0.47
2:OG:53:PHE:CG	2:OG:61:HIS:HB3	2.49	0.47
2:OG:180:ALA:HB3	2:OG:183:GLU:HG3	1.97	0.47
2:OG:318:LEU:O	2:OG:375:VAL:HA	2.15	0.47
3:OH:12:CYS:SG	3:OH:13:GLY:N	2.87	0.47
2:OI:28:HIS:HB2	2:OI:30:ILE:CD1	2.44	0.47
2:OI:189:LEU:HD23	2:OI:192:HIS:CE1	2.49	0.47
19:P1:272:LEU:HD11	19:P1:286:LYS:HE2	1.97	0.47
19:P1:443:VAL:O	19:P1:454:GLU:HB3	2.14	0.47
19:P2:588:GLY:HA3	19:P2:608:ASP:H	1.80	0.47
2:PE:144:GLY:HA3	25:PE:501:GTP:O3G	2.14	0.47
2:PE:406:HIS:HA	2:PE:409:VAL:HG22	1.96	0.47
3:PF:164:MET:HG2	3:PF:197:ASP:CG	2.36	0.47
3:PF:392:LYS:HD2	3:PF:392:LYS:O	2.14	0.47
2:PG:202:PHE:CD1	2:PG:268:PRO:HD2	2.50	0.47
3:PH:252:LYS:HD2	2:PI:100:ALA:HA	1.97	0.47
2:PI:279:GLU:O	2:PI:283:HIS:HD2	1.98	0.47
2:QE:142:GLY:HA3	2:QE:183:GLU:HG2	1.97	0.47
2:QE:205:ASP:H	2:QE:302:MET:HE2	1.80	0.47
2:QE:246:GLY:HA2	2:QE:357:TYR:CD2	2.50	0.47
3:QF:306:ARG:NE	3:QF:306:ARG:O	2.47	0.47
2:QG:30:ILE:HA	2:QG:36:MET:CE	2.45	0.47
3:QH:37:HIS:HA	24:YL:64:ARG:NH1	2.29	0.47
2:RG:338:LYS:NZ	2:RG:339:ARG:H	2.13	0.47
3:RH:20:PHE:O	3:RH:24:ILE:HG13	2.15	0.47
3:RH:68:LEU:HD22	3:RH:93:GLY:HA3	1.97	0.47
2:RI:112:LYS:O	2:RI:115:VAL:HG12	2.15	0.47
2:RI:312:TYR:N	2:RI:342:GLN:O	2.43	0.47
2:SG:53:PHE:HB3	2:SG:61:HIS:HB3	1.97	0.47
3:SH:357:PRO:HB3	3:SH:362:LYS:O	2.14	0.47
2:SI:116:ASP:OD1	2:SI:117:LEU:N	2.47	0.47
2:SI:117:LEU:O	2:SI:121:ARG:HG2	2.15	0.47
2:SI:266:HIS:C	2:SI:268:PRO:HD3	2.35	0.47
3:SJ:36:TYR:CE2	3:SJ:38:GLY:HA2	2.49	0.47
3:TF:394:PHE:HB3	3:TF:397:TRP:HZ3	1.80	0.47
3:TH:68:LEU:HB3	3:TH:96:GLY:HA2	1.96	0.47
3:TH:275:SER:N	3:TH:278:SER:OG	2.44	0.47
2:TI:138:PHE:CD1	2:TI:169:PHE:HB2	2.50	0.47
3:TJ:8:GLN:CD	3:TJ:65:LEU:HD13	2.35	0.47
3:UD:378:PHE:O	3:UD:381:ILE:HG22	2.15	0.47
2:UG:145:THR:OG1	25:UG:501:GTP:O1B	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:352:LYS:HA	3:UH:177:ASP:OD1	2.15	0.47
3:VD:192:LEU:O	3:VD:196:THR:HG22	2.14	0.47
2:VE:101:ASN:CB	2:VE:182:VAL:HG11	2.45	0.47
2:VE:116:ASP:OD1	2:VE:117:LEU:N	2.45	0.47
2:VE:301:GLN:OE1	2:VE:302:MET:N	2.48	0.47
3:VH:180:VAL:O	3:VH:183:TYR:HB2	2.15	0.47
2:WE:52:PHE:HZ	2:WE:239:THR:HB	1.80	0.47
2:WG:142:GLY:HA2	2:WG:186:ASN:OD1	2.15	0.47
3:WH:2:ARG:HA	3:WH:129:CYS:O	2.15	0.47
3:WH:53:GLU:HA	3:WH:59:TYR:HA	1.97	0.47
3:WH:350:LYS:HE3	2:WI:180:ALA:HA	1.96	0.47
2:WI:137:ILE:HD11	2:WI:166:LYS:HB3	1.96	0.47
2:WI:172:TYR:CD1	2:WI:173:PRO:HD2	2.49	0.47
2:WI:185:TYR:OH	2:WI:398:MET:SD	2.72	0.47
2:WI:273:ALA:HB2	2:WI:295:CYS:HB3	1.97	0.47
22:XC:49:ILE:HG22	22:XC:158:ALA:HA	1.97	0.47
23:XL:222:GLU:HG2	23:XL:223:ASP:H	1.79	0.47
24:YJ:117:TYR:CG	24:YJ:118:PRO:HA	2.50	0.47
1:A2:363:LYS:HD2	10:G5:182:GLY:C	2.35	0.46
3:AF:317:PHE:HB3	3:AF:321:MET:HE2	1.97	0.46
2:AG:135:PHE:HB2	2:AG:137:ILE:HD11	1.97	0.46
2:AI:255:PHE:HA	2:AI:259:LEU:HD23	1.96	0.46
4:B2:293:LEU:HD22	4:B2:363:LEU:HD13	1.96	0.46
4:B7:134:GLU:O	4:B7:138:LEU:HG	2.15	0.46
3:BH:245:GLN:OE1	3:BH:245:GLN:N	2.33	0.46
2:BI:272:TYR:HD2	2:BI:275:VAL:HG22	1.79	0.46
5:C3:271:CYS:O	5:C4:399:ARG:NH1	2.47	0.46
5:C8:425:TYR:HD2	7:E2:123:ILE:HG21	1.80	0.46
2:CG:76:ASP:O	2:CG:80:THR:HG23	2.15	0.46
3:CH:391:ARG:O	3:CH:392:LYS:HG3	2.16	0.46
2:CI:119:LEU:HB3	2:CI:123:ARG:NH2	2.29	0.46
3:DF:392:LYS:HD2	3:DF:392:LYS:O	2.16	0.46
2:DG:230:LEU:O	2:DG:234:ILE:HG12	2.15	0.46
2:DG:276:ILE:O	2:DG:369:ALA:HB2	2.15	0.46
3:EF:67:ASP:HB3	3:EF:73:MET:CE	2.45	0.46
8:F3:189:GLN:HA	8:F3:192:LEU:HG	1.97	0.46
8:F6:198:ARG:NH1	8:F6:465:ASP:HA	2.30	0.46
8:F6:301:ASN:C	8:F6:305:ARG:HE	2.18	0.46
8:F7:399:ARG:NH2	8:F7:402:ARG:HH12	2.13	0.46
3:FF:19:LYS:NZ	3:FF:227:HIS:HB2	2.30	0.46
3:FH:380:ARG:O	3:FH:383:GLU:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:127:GLU:HG2	9:G1:128:ASP:N	2.30	0.46
3:GD:12:CYS:HB3	25:GD:501:GTP:O4'	2.14	0.46
2:GE:112:LYS:O	2:GE:115:VAL:HG12	2.15	0.46
2:GE:147:SER:HB2	2:GE:190:THR:HG21	1.97	0.46
2:GG:88:HIS:HB3	2:GG:91:GLN:HG3	1.97	0.46
2:GG:390:ARG:HA	2:GG:393:HIS:NE2	2.30	0.46
3:HD:5:VAL:HG22	3:HD:62:ARG:HB3	1.97	0.46
2:HG:351:PHE:HZ	3:HH:175:VAL:HA	1.79	0.46
2:HI:174:ALA:HB3	2:HI:177:VAL:O	2.15	0.46
2:HI:287:SER:HA	2:HI:373:ARG:HD3	1.97	0.46
2:IE:226:ASN:O	2:IE:230:LEU:HG	2.15	0.46
3:IF:324:LYS:HE3	3:IF:324:LYS:HB3	1.72	0.46
3:IF:406:MET:SD	3:IF:407:GLU:HG3	2.55	0.46
2:IG:102:ASN:ND2	2:IG:411:GLU:HG2	2.30	0.46
3:JH:3:GLU:OE2	3:JH:129:CYS:N	2.48	0.46
3:JH:60:VAL:HG23	3:JH:86:ARG:NH1	2.22	0.46
3:JH:379:LYS:O	3:JH:383:GLU:OE1	2.32	0.46
14:K3:249:ASN:OD1	14:K3:250:GLN:N	2.48	0.46
14:K3:358:ARG:HH22	21:R2:132:LEU:HA	1.80	0.46
2:KE:33:ASP:OD1	2:KE:35:GLN:N	2.33	0.46
2:KE:231:ILE:HD13	2:KE:234:ILE:HD12	1.96	0.46
3:KH:206:ALA:HA	3:KH:209:ASP:OD2	2.15	0.46
3:LD:251:ARG:O	3:LD:255:VAL:HG22	2.14	0.46
2:LE:409:VAL:HA	2:LE:413:MET:O	2.15	0.46
2:LG:396:ASP:OD1	2:LG:397:LEU:N	2.47	0.46
3:LH:49:VAL:O	3:LH:62:ARG:NH2	2.48	0.46
2:ME:11:GLN:HG3	25:ME:501:GTP:O3A	2.14	0.46
2:ME:47:ASP:H	2:ME:50:ASN:HB3	1.80	0.46
3:MF:251:ARG:O	3:MF:255:VAL:HG22	2.15	0.46
2:MG:336:LYS:HE2	3:MH:175:VAL:HB	1.97	0.46
3:MH:275:SER:OG	3:MH:276:ARG:N	2.48	0.46
2:MI:9:VAL:HG11	2:MI:150:ALA:HB2	1.96	0.46
2:MI:210:TYR:HE1	2:MI:227:LEU:HD21	1.81	0.46
3:ND:374:ILE:HD12	3:ND:374:ILE:H	1.80	0.46
3:NF:131:GLN:HB3	3:NF:163:ILE:HD12	1.97	0.46
3:NF:322:SER:N	3:NF:325:GLU:OE2	2.46	0.46
3:NH:5:VAL:HB	3:NH:133:PHE:HD1	1.80	0.46
2:NI:268:PRO:HB2	2:NI:378:LEU:HG	1.97	0.46
3:OD:421:GLU:HA	3:OD:424:GLN:HE21	1.80	0.46
2:OE:88:HIS:CE1	2:OE:121:ARG:HH22	2.33	0.46
2:OE:312:TYR:CD1	2:OE:381:THR:HB	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:378:PHE:O	3:OH:381:ILE:HG22	2.14	0.46
19:P1:59:PHE:H	19:P1:101:ARG:NH2	2.12	0.46
19:P1:120:SER:OG	19:P1:124:LEU:N	2.37	0.46
19:P1:601:TYR:HD1	19:P1:615:LYS:HA	1.80	0.46
19:P1:601:TYR:CD1	19:P1:613:ARG:HD3	2.50	0.46
19:P2:44:GLY:HA3	19:P2:587:SER:HB3	1.96	0.46
19:P2:584:VAL:HG12	19:P2:585:GLY:N	2.30	0.46
2:PE:142:GLY:HA2	2:PE:186:ASN:OD1	2.15	0.46
3:PF:80:PRO:HB2	3:PF:81:PHE:HD1	1.79	0.46
2:PG:1:MET:SD	2:PG:2:ARG:N	2.87	0.46
2:PI:281:ALA:HB3	2:PI:369:ALA:HB1	1.96	0.46
20:Q1:1358:ILE:O	20:Q1:1394:PHE:N	2.44	0.46
2:QE:116:ASP:HA	2:QE:119:LEU:HD12	1.96	0.46
3:QF:288:GLU:OE2	3:QF:289:LEU:HD12	2.15	0.46
2:QG:326:LYS:HA	2:QG:329:ASN:HD21	1.80	0.46
21:R2:137:GLU:HA	21:R2:140:LEU:HD12	1.97	0.46
2:RE:368:LEU:H	2:RE:368:LEU:HD23	1.80	0.46
2:RE:405:VAL:O	2:RE:409:VAL:HG12	2.16	0.46
2:RG:21:TRP:CZ2	2:RG:65:ALA:HB2	2.50	0.46
3:RH:249:ASP:O	3:RH:252:LYS:HB2	2.16	0.46
3:RH:380:ARG:HG3	3:RH:381:ILE:N	2.30	0.46
2:RI:116:ASP:N	2:RI:116:ASP:OD1	2.48	0.46
3:RJ:315:ALA:O	3:RJ:351:THR:HA	2.15	0.46
2:SE:311:LYS:HG2	2:SE:342:GLN:HB3	1.96	0.46
3:SF:415:MET:O	3:SF:419:VAL:HG13	2.15	0.46
2:SG:224:TYR:HA	2:SG:227:LEU:HD22	1.97	0.46
3:SH:77:ARG:HA	3:SH:82:GLY:HA3	1.97	0.46
3:SH:214:THR:HG23	3:SH:215:LEU:HD12	1.97	0.46
2:SI:192:HIS:HA	2:SI:195:LEU:HD23	1.95	0.46
3:TH:167:PHE:CE1	3:TH:202:ILE:HD11	2.49	0.46
3:TJ:152:ILE:HG13	3:TJ:153:SER:N	2.31	0.46
3:UF:421:GLU:HG2	3:UF:425:TYR:CD2	2.50	0.46
3:UH:211:CYS:HA	3:UH:215:LEU:HD13	1.97	0.46
3:VD:390:ARG:HE	3:VD:391:ARG:HH21	1.62	0.46
2:VE:67:PHE:HB2	2:VE:92:LEU:HD13	1.96	0.46
2:VE:93:ILE:HD12	2:VE:117:LEU:HD13	1.96	0.46
2:VE:246:GLY:HA3	2:VE:356:ASN:HA	1.95	0.46
2:WE:319:TYR:CE2	2:WE:328:VAL:HG22	2.49	0.46
2:WE:346:TRP:HD1	3:WF:390:ARG:HH22	1.61	0.46
3:WF:111:GLU:HG2	3:WF:112:LEU:HD12	1.96	0.46
3:WF:211:CYS:HA	3:WF:215:LEU:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:408:TYR:CD2	2:WG:418:PHE:HZ	2.33	0.46
3:WH:114:ASP:OD1	3:WH:115:SER:N	2.47	0.46
3:WH:322:SER:N	3:WH:325:GLU:OE2	2.48	0.46
2:WI:311:LYS:HZ3	2:WI:342:GLN:HB3	1.80	0.46
2:WI:327:ASP:OD1	2:WI:328:VAL:N	2.48	0.46
22:XC:13:ILE:HG22	22:XC:25:TRP:CZ2	2.46	0.46
22:XD:164:ARG:NH2	22:XD:181:PHE:HA	2.30	0.46
24:YI:93:THR:O	24:YI:97:LEU:HG	2.15	0.46
24:YI:125:LEU:O	24:YI:131:ARG:NH2	2.35	0.46
24:YJ:46:ILE:HA	24:YJ:49:VAL:HB	1.98	0.46
24:YL:141:ILE:HB	24:YL:142:PRO:HD3	1.96	0.46
1:A2:367:ARG:HA	1:A2:367:ARG:HD3	1.64	0.46
1:A2:386:ASP:N	1:A2:386:ASP:OD1	2.48	0.46
1:A2:392:GLU:OE1	1:A2:392:GLU:N	2.43	0.46
2:AE:147:SER:HB2	2:AE:190:THR:HG21	1.97	0.46
3:AF:313:VAL:HG23	3:AF:349:VAL:HA	1.97	0.46
2:AI:331:ALA:O	2:AI:334:THR:OG1	2.23	0.46
2:AI:362:VAL:HG21	2:AI:370:LYS:NZ	2.31	0.46
4:B7:78:LEU:HD22	4:B7:176:HIS:HB2	1.97	0.46
2:BE:271:THR:HB	2:BE:377:MET:HB3	1.97	0.46
3:BF:350:LYS:NZ	2:BG:181:VAL:HG13	2.30	0.46
2:BG:262:TYR:CE1	3:BH:393:ALA:HA	2.50	0.46
2:BG:419:SER:HA	2:BG:422:ARG:HE	1.80	0.46
2:BI:320:ARG:HD3	2:BI:360:PRO:HG3	1.97	0.46
5:C3:283:TYR:HE1	5:C4:394:LYS:HD3	1.79	0.46
5:C4:430:THR:O	5:C4:433:THR:OG1	2.26	0.46
5:C7:112:SER:O	5:C7:116:ASN:ND2	2.48	0.46
5:C7:292:ALA:HB1	7:E2:37:PRO:HA	1.97	0.46
5:C8:389:LYS:HZ3	5:C8:431:ILE:HA	1.81	0.46
2:CG:165:SER:OG	2:CG:252:LEU:HD13	2.15	0.46
6:D3:337:ALA:HA	6:D3:340:LYS:HE2	1.97	0.46
6:D8:394:LYS:NZ	6:D9:80:GLU:HG3	2.31	0.46
3:DD:139:LEU:HD11	3:DD:171:PRO:HD3	1.98	0.46
2:DE:288:VAL:O	2:DE:291:ILE:HG12	2.16	0.46
3:DH:271:ALA:HB2	3:DH:365:ALA:H	1.80	0.46
2:EE:67:PHE:CE1	2:EE:87:PHE:HE1	2.33	0.46
2:EE:252:LEU:HA	2:EE:255:PHE:CD2	2.49	0.46
3:EF:70:PRO:HA	3:EF:73:MET:SD	2.55	0.46
3:EF:253:LEU:O	3:EF:257:MET:HG2	2.14	0.46
3:EF:347:ASN:HB3	2:EG:178:SER:HB3	1.98	0.46
3:EH:174:LYS:HG3	3:EH:175:VAL:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F2:408:CYS:SG	8:F2:410:ASP:HB2	2.56	0.46
8:F3:263:ILE:HA	8:F3:266:ASN:ND2	2.30	0.46
8:F6:137:GLY:O	8:F6:140:ARG:HG2	2.14	0.46
8:F6:149:LEU:CD2	8:F6:261:GLN:HB2	2.44	0.46
8:F6:169:SER:HB3	8:F6:318:ARG:NH1	2.29	0.46
8:F7:175:ARG:HA	8:F7:178:GLU:HG3	1.96	0.46
3:FF:221:THR:OG1	3:FF:224:ASP:N	2.48	0.46
2:FG:220:GLU:O	2:FG:221:ARG:NE	2.47	0.46
3:FH:8:GLN:CD	3:FH:17:GLY:HA3	2.35	0.46
9:G1:448:MET:SD	9:G1:469:ARG:HB3	2.56	0.46
10:G5:504:ALA:N	10:G5:539:LYS:HZ3	2.13	0.46
10:G5:627:PHE:CG	10:G5:635:PHE:HZ	2.33	0.46
3:GD:148:GLY:O	3:GD:152:ILE:HG12	2.15	0.46
3:GD:178:THR:HG22	3:GD:180:VAL:HG12	1.97	0.46
2:GE:192:HIS:NE2	2:GE:420:GLU:OE2	2.48	0.46
2:GE:388:TRP:HB3	2:GE:425:LEU:HD11	1.96	0.46
2:GE:390:ARG:HA	2:GE:393:HIS:ND1	2.30	0.46
2:GG:206:ASN:O	2:GG:209:ILE:HB	2.14	0.46
3:GH:142:GLY:N	25:GH:501:GTP:O3B	2.49	0.46
2:GI:208:ALA:HA	2:GI:211:ASP:HB2	1.96	0.46
3:HD:258:VAL:O	2:HE:407:TRP:NE1	2.48	0.46
2:HE:401:LYS:C	2:HE:402:ARG:HD3	2.35	0.46
2:HE:406:HIS:HA	2:HE:409:VAL:HG22	1.96	0.46
2:HG:406:HIS:CE1	2:HG:407:TRP:CD1	3.03	0.46
3:HH:31:ASP:N	3:HH:31:ASP:OD1	2.44	0.46
2:HI:2:ARG:CZ	2:HI:242:LEU:HA	2.45	0.46
2:HI:47:ASP:HB3	2:HI:49:PHE:CE2	2.50	0.46
2:HI:338:LYS:HZ3	2:HI:339:ARG:H	1.62	0.46
2:IE:81:GLY:O	2:IE:84:ARG:NH1	2.48	0.46
2:II:388:TRP:HB3	2:II:425:LEU:HD11	1.97	0.46
13:J2:117:LEU:HD11	13:J2:132:HIS:HA	1.98	0.46
2:JG:13:GLY:O	2:JG:16:ILE:HG12	2.15	0.46
3:JH:117:LEU:HA	3:JH:120:VAL:HG22	1.96	0.46
3:JH:319:GLY:HA2	3:JH:357:PRO:HG3	1.97	0.46
14:K3:158:ARG:O	14:K3:161:THR:OG1	2.24	0.46
14:K3:351:THR:HA	14:K3:354:LEU:HD12	1.98	0.46
3:KD:40:SER:O	3:KD:43:GLN:HG2	2.15	0.46
3:KD:246:LEU:CB	3:KD:353:VAL:H	2.28	0.46
3:KH:318:ARG:NH1	3:KH:358:PRO:HG3	2.30	0.46
2:LE:35:GLN:HG3	2:LE:59:GLY:O	2.16	0.46
3:LF:377:LEU:O	3:LF:381:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:352:LYS:HD2	3:LH:177:ASP:O	2.15	0.46
3:LH:376:GLU:HG2	3:LH:377:LEU:H	1.79	0.46
2:LI:16:ILE:HG13	2:LI:17:GLY:N	2.30	0.46
2:ME:224:TYR:CE1	25:ME:501:GTP:C5	2.99	0.46
2:MG:147:SER:HB2	2:MG:190:THR:CG2	2.45	0.46
2:MG:171:ILE:HD11	2:MG:206:ASN:N	2.29	0.46
2:MG:223:THR:N	2:MG:226:ASN:OD1	2.35	0.46
3:NF:406:MET:O	3:NF:409:THR:OG1	2.21	0.46
2:NG:292:THR:HA	2:NG:295:CYS:SG	2.55	0.46
3:NH:233:MET:HA	3:NH:236:VAL:HG12	1.96	0.46
3:NH:416:ASN:HA	3:NH:419:VAL:CG2	2.45	0.46
2:NI:31:GLN:H	2:NI:36:MET:HE1	1.80	0.46
2:NI:53:PHE:CB	2:NI:61:HIS:HB3	2.43	0.46
2:NI:166:LYS:O	2:NI:199:ASP:HB2	2.15	0.46
2:NI:207:GLU:HB2	2:NI:304:LYS:NZ	2.30	0.46
2:OE:368:LEU:H	2:OE:368:LEU:HD23	1.80	0.46
3:OF:28:HIS:HA	3:OF:43:GLN:OE1	2.15	0.46
3:OF:101:TRP:O	3:OF:105:HIS:HB2	2.16	0.46
3:OF:118:ASP:OD1	3:OF:121:ARG:NH1	2.49	0.46
3:OH:37:HIS:HA	24:YN:64:ARG:HH22	1.79	0.46
3:OH:200:TYR:HE1	3:OH:368:ILE:HD13	1.79	0.46
2:OI:9:VAL:HG11	2:OI:150:ALA:HB2	1.97	0.46
2:OI:388:TRP:CZ3	2:OI:432:TYR:HE2	2.34	0.46
19:P1:331:HIS:CE1	19:P1:357:ARG:HG3	2.50	0.46
19:P1:383:MET:SD	19:P1:429:CYS:HB3	2.55	0.46
19:P1:527:ALA:HA	19:P1:539:GLU:HG2	1.96	0.46
19:P2:480:SER:OG	19:P2:481:THR:N	2.48	0.46
3:PF:378:PHE:CE1	3:PF:419:VAL:HG22	2.50	0.46
2:PG:36:MET:HG3	2:PG:41:THR:OG1	2.15	0.46
2:PI:32:PRO:O	2:PI:85:GLN:NE2	2.46	0.46
2:PI:54:SER:O	2:PI:62:VAL:N	2.48	0.46
2:PI:230:LEU:HA	2:PI:233:GLN:HG3	1.97	0.46
2:PI:396:ASP:OD1	2:PI:397:LEU:N	2.46	0.46
2:QE:137:ILE:O	2:QE:169:PHE:N	2.44	0.46
2:QE:415:GLU:OE2	2:QE:419:SER:OG	2.33	0.46
3:QF:205:GLU:HA	3:QF:208:TYR:HD2	1.79	0.46
2:QG:84:ARG:HH22	24:YI:124:HIS:CG	2.34	0.46
2:QG:103:TYR:CD2	2:QG:189:LEU:HD13	2.50	0.46
3:QH:285:THR:O	3:QH:288:GLU:HG3	2.15	0.46
2:QI:115:VAL:HA	2:QI:118:VAL:HG22	1.97	0.46
21:R2:117:THR:O	21:R2:149:ILE:HD12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RE:1:MET:SD	2:RE:2:ARG:N	2.87	0.46
3:RF:309:ARG:N	3:RF:372:THR:OG1	2.42	0.46
2:RG:3:GLU:OE2	2:RG:130:THR:N	2.38	0.46
3:RH:179:VAL:O	3:RH:182:PRO:HD2	2.15	0.46
3:RH:286:VAL:HG11	3:RH:325:GLU:HB2	1.97	0.46
2:RI:400:ALA:O	2:RI:402:ARG:NH2	2.49	0.46
3:RJ:313:VAL:O	3:RJ:349:VAL:HA	2.15	0.46
3:SF:2:ARG:HA	3:SF:129:CYS:O	2.16	0.46
3:SF:167:PHE:HA	3:SF:200:TYR:HB2	1.98	0.46
2:SG:187:SER:O	2:SG:191:THR:HG23	2.16	0.46
3:SH:211:CYS:SG	3:SH:220:PRO:HG3	2.55	0.46
3:SH:407:GLU:HA	3:SH:410:GLU:CD	2.36	0.46
2:SI:272:TYR:CZ	2:SI:274:PRO:HG2	2.50	0.46
3:SJ:68:LEU:HD12	3:SJ:143:THR:HG23	1.96	0.46
3:TF:51:TYR:CD1	3:TF:61:PRO:HA	2.50	0.46
3:TF:342:VAL:HG23	3:TF:345:ILE:HG22	1.97	0.46
2:TG:236:SER:O	2:TG:243:ARG:NH2	2.34	0.46
2:TG:315:CYS:HG	2:TG:343:PHE:HZ	1.61	0.46
3:TH:350:LYS:HE3	2:TI:180:ALA:HA	1.95	0.46
2:TI:99:ALA:O	2:TI:102:ASN:HB3	2.16	0.46
2:TI:187:SER:O	2:TI:190:THR:OG1	2.31	0.46
2:TI:188:ILE:HG23	2:TI:425:LEU:HD22	1.98	0.46
2:TI:390:ARG:HA	2:TI:393:HIS:CD2	2.50	0.46
3:TJ:100:ASN:HB3	3:TJ:103:LYS:HB2	1.95	0.46
3:UF:225:LEU:HA	3:UF:228:LEU:HD12	1.97	0.46
3:UF:385:PHE:O	3:UF:389:PHE:HB2	2.15	0.46
2:UG:47:ASP:HB3	2:UG:49:PHE:CE2	2.50	0.46
2:UG:71:GLU:N	2:UG:71:GLU:OE1	2.48	0.46
2:UG:173:PRO:HB2	2:UG:390:ARG:HH22	1.80	0.46
2:UG:180:ALA:HB1	2:UG:182:VAL:HG12	1.97	0.46
2:UG:326:LYS:HG3	3:UH:218:THR:O	2.15	0.46
3:UH:36:TYR:CE2	3:UH:38:GLY:HA2	2.49	0.46
3:UH:372:THR:HG21	3:UH:426:GLN:CB	2.44	0.46
2:VE:129:CYS:HB3	2:VE:132:LEU:HB3	1.96	0.46
3:VF:28:HIS:ND1	3:VF:43:GLN:HB2	2.29	0.46
3:VF:234:SER:O	3:VF:238:THR:HG23	2.15	0.46
2:VG:1:MET:O	2:VG:133:GLN:NE2	2.44	0.46
2:VG:75:VAL:HG23	2:VG:92:LEU:HD12	1.97	0.46
2:WE:171:ILE:HD12	2:WE:204:VAL:HG13	1.96	0.46
2:WE:174:ALA:HB3	2:WE:177:VAL:O	2.15	0.46
3:WF:167:PHE:HD1	3:WF:200:TYR:CD2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:206:ALA:O	3:WF:210:ILE:HG12	2.15	0.46
2:WG:3:GLU:HB3	2:WG:51:THR:HA	1.97	0.46
2:WG:139:HIS:CE1	2:WG:168:GLU:HB3	2.51	0.46
2:WG:346:TRP:HA	3:WH:390:ARG:HH22	1.80	0.46
3:WH:117:LEU:HD11	3:WH:154:LYS:HD2	1.96	0.46
2:WI:368:LEU:H	2:WI:368:LEU:HD23	1.81	0.46
24:YI:41:ARG:HH12	24:YI:44:SER:H	1.63	0.46
24:YL:41:ARG:NH1	24:YL:43:ILE:HA	2.30	0.46
2:AE:55:GLU:HG3	2:AE:60:LYS:C	2.35	0.46
2:AE:210:TYR:OH	2:AE:221:ARG:NH2	2.48	0.46
3:AF:361:LEU:HD11	3:AF:364:SER:HB3	1.97	0.46
2:AG:154:MET:SD	2:AG:155:GLU:N	2.88	0.46
2:AG:161:TYR:HB3	2:AG:164:LYS:HZ3	1.80	0.46
2:AG:320:ARG:HG2	2:AG:358:GLN:O	2.15	0.46
2:AG:329:ASN:HA	2:AG:332:ILE:HG12	1.96	0.46
3:AH:100:ASN:OD1	3:AH:103:LYS:N	2.34	0.46
2:AI:224:TYR:HB3	2:AI:228:ASN:OD1	2.16	0.46
2:AI:263:PRO:O	2:AI:264:ARG:HB2	2.15	0.46
4:B3:94:GLN:OE1	7:E2:114:ARG:NH1	2.46	0.46
4:B3:193:ASN:O	4:B3:196:SER:OG	2.33	0.46
4:B7:4:LEU:HD23	4:B7:6:PHE:CE2	2.51	0.46
4:B7:6:PHE:O	6:D7:326:LEU:HD21	2.16	0.46
4:B7:138:LEU:O	4:B7:142:GLU:HG2	2.15	0.46
4:B7:395:ARG:O	4:B7:398:THR:OG1	2.25	0.46
2:BI:399:TYR:OH	2:BI:415:GLU:HB3	2.14	0.46
5:C2:152:ASP:O	5:C2:156:TRP:HD1	1.98	0.46
5:C2:157:LYS:NZ	5:C2:262:GLN:HB3	2.30	0.46
5:C2:300:TRP:NE1	5:C3:412:CYS:SG	2.88	0.46
5:C3:264:ALA:HA	5:C3:267:ILE:HD12	1.97	0.46
3:CF:324:LYS:HD3	2:CG:210:TYR:CE1	2.50	0.46
3:CH:70:PRO:O	3:CH:73:MET:HG2	2.15	0.46
3:CH:263:LEU:HA	3:CH:422:TYR:OH	2.15	0.46
3:CH:392:LYS:O	3:CH:392:LYS:HD2	2.16	0.46
3:DD:80:PRO:HB2	3:DD:81:PHE:CD1	2.50	0.46
3:DD:133:PHE:HB2	3:DD:164:MET:CE	2.45	0.46
2:DE:45:GLY:HA2	2:DE:49:PHE:HE2	1.80	0.46
2:DE:176:GLN:NE2	2:DE:207:GLU:OE2	2.49	0.46
2:DG:208:ALA:N	2:DG:304:LYS:HZ1	2.12	0.46
3:DH:130:LEU:HB3	3:DH:132:GLY:H	1.79	0.46
7:E2:147:LYS:HD3	7:E2:148:GLU:O	2.15	0.46
3:EF:276:ARG:NH1	10:G5:402:SER:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:382:SER:O	3:EF:386:THR:HG23	2.15	0.46
2:EG:346:TRP:NE1	3:EH:391:ARG:HD2	2.30	0.46
8:F2:263:ILE:HA	8:F2:266:ASN:ND2	2.31	0.46
8:F6:342:ALA:O	8:F6:346:ARG:HD3	2.14	0.46
25:FF:502:GTP:C6	2:FG:15:GLN:CG	2.98	0.46
2:FG:346:TRP:CZ2	3:FH:393:ALA:HB2	2.50	0.46
9:G2:133:VAL:H	9:G2:147:LYS:HZ3	1.62	0.46
10:G5:85:LEU:HG	10:G5:100:ARG:NH2	2.30	0.46
3:GD:143:THR:O	3:GD:147:MET:HG2	2.15	0.46
3:GD:215:LEU:HD23	3:GD:217:LEU:HD21	1.96	0.46
2:GE:67:PHE:HB2	2:GE:92:LEU:HD13	1.97	0.46
2:GE:89:PRO:HB2	2:GE:90:GLU:OE1	2.14	0.46
2:GG:127:ASP:OD1	2:GG:128:LEU:N	2.48	0.46
2:GG:306:ASP:HB3	2:GG:309:HIS:ND1	2.30	0.46
2:GI:263:PRO:O	2:GI:264:ARG:HB2	2.15	0.46
3:HD:350:LYS:NZ	2:HE:181:VAL:HG13	2.31	0.46
2:HE:3:GLU:N	2:HE:133:GLN:OE1	2.49	0.46
2:HG:269:LEU:HG	2:HG:303:VAL:HG21	1.96	0.46
3:HH:68:LEU:HA	3:HH:93:GLY:H	1.80	0.46
3:HH:137:HIS:O	3:HH:168:SER:HA	2.15	0.46
3:HH:322:SER:OG	3:HH:323:MET:N	2.49	0.46
2:HI:99:ALA:HB3	2:HI:145:THR:HG22	1.97	0.46
3:IF:87:PRO:HG2	2:JE:280:LYS:NZ	2.31	0.46
3:IF:232:THR:HG22	3:IF:270:PHE:CD1	2.50	0.46
3:IF:246:LEU:HD13	3:IF:353:VAL:C	2.36	0.46
3:IH:398:TYR:HB3	3:IH:403:MET:HG2	1.98	0.46
13:J3:113:ALA:HB3	13:J3:142:ILE:HG12	1.98	0.46
3:JD:249:ASP:HB3	3:JD:252:LYS:HG2	1.96	0.46
3:JF:173:PRO:O	3:JF:380:ARG:NH2	2.47	0.46
3:JF:252:LYS:O	3:JF:256:ASN:ND2	2.48	0.46
14:K2:368:ASN:HA	14:K2:371:MET:HG2	1.98	0.46
14:K2:488:THR:HA	14:K2:491:ARG:CZ	2.45	0.46
14:K3:263:SER:C	14:K3:265:VAL:H	2.17	0.46
3:KD:2:ARG:NH2	3:KD:240:LEU:O	2.37	0.46
3:KD:73:MET:SD	3:KD:92:PHE:HB3	2.55	0.46
3:KF:259:PRO:HG2	3:KF:311:LEU:HD21	1.97	0.46
3:KF:357:PRO:HB3	3:KF:362:LYS:O	2.14	0.46
2:KG:266:HIS:O	2:KG:268:PRO:HD3	2.15	0.46
2:KG:331:ALA:O	2:KG:334:THR:OG1	2.26	0.46
2:KG:401:LYS:C	2:KG:402:ARG:HD3	2.35	0.46
2:KI:280:LYS:HD2	2:KI:280:LYS:HA	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L2:187:ARG:HE	15:L2:188:LEU:N	2.12	0.46
2:LE:401:LYS:C	2:LE:402:ARG:HD3	2.36	0.46
2:LG:243:ARG:HB3	2:LG:244:PHE:CD1	2.50	0.46
2:LG:301:GLN:OE1	2:LG:301:GLN:N	2.49	0.46
2:LG:433:GLU:O	2:LG:437:VAL:HG23	2.15	0.46
3:LH:318:ARG:HG2	3:LH:357:PRO:HA	1.97	0.46
2:LI:358:GLN:NE2	2:LI:359:PRO:O	2.46	0.46
16:M2:44:ARG:HH12	16:M2:96:LEU:HD12	1.81	0.46
16:M3:67:ARG:HA	16:M3:70:ASN:HD21	1.80	0.46
2:MG:189:LEU:HA	2:MG:192:HIS:CD2	2.50	0.46
2:MG:297:GLU:HG2	2:MG:298:PRO:HD2	1.97	0.46
3:ND:274:THR:OG1	3:ND:278:SER:OG	2.19	0.46
3:ND:392:LYS:HB2	3:ND:395:LEU:HD13	1.97	0.46
2:NE:208:ALA:HB3	2:NE:302:MET:SD	2.55	0.46
3:NF:182:PRO:HB2	3:NF:388:MET:CE	2.46	0.46
2:NG:54:SER:HB2	2:NG:62:VAL:HB	1.96	0.46
3:NH:39:ASP:N	3:NH:39:ASP:OD1	2.48	0.46
2:NI:185:TYR:CD1	2:NI:395:PHE:HE1	2.34	0.46
2:OE:230:LEU:O	2:OE:233:GLN:NE2	2.48	0.46
2:OI:51:THR:O	2:OI:64:ARG:HD2	2.16	0.46
2:OI:60:LYS:HD3	2:PI:283:HIS:HB2	1.97	0.46
2:OI:139:HIS:HE1	2:OI:168:GLU:HB3	1.80	0.46
19:P1:94:ILE:HG12	19:P1:106:ARG:HG3	1.97	0.46
19:P2:280:SER:C	19:P2:282:LYS:H	2.18	0.46
2:PE:172:TYR:HB2	2:PE:203:MET:HB3	1.96	0.46
2:PE:207:GLU:HB2	2:PE:304:LYS:NZ	2.30	0.46
3:PF:269:GLY:O	3:PF:367:PHE:N	2.48	0.46
3:PF:374:ILE:HG22	3:PF:378:PHE:CD2	2.51	0.46
3:PH:31:ASP:OD1	3:PH:35:THR:N	2.48	0.46
3:PH:258:VAL:HB	2:PI:407:TRP:HH2	1.79	0.46
2:PI:434:GLU:OE1	2:PI:434:GLU:N	2.48	0.46
2:QE:5:ILE:HG12	2:QE:132:LEU:HD13	1.98	0.46
3:QF:2:ARG:NH2	2:QG:97:GLU:HA	2.30	0.46
3:QF:313:VAL:HG23	3:QF:349:VAL:HA	1.98	0.46
2:QG:216:ASN:HB2	2:QG:276:ILE:HD12	1.98	0.46
3:QH:412:GLU:HA	3:QH:415:MET:HG2	1.98	0.46
2:QI:11:GLN:HG2	25:QI:501:GTP:PB	2.55	0.46
2:QI:73:THR:OG1	2:QI:74:VAL:N	2.49	0.46
2:QI:320:ARG:HB3	2:QI:374:ALA:HB3	1.98	0.46
3:RH:182:PRO:HB2	3:RH:388:MET:CE	2.46	0.46
3:RH:416:ASN:O	3:RH:419:VAL:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:138:SER:HB3	25:RJ:501:GTP:H5''	1.97	0.46
3:RJ:228:LEU:O	3:RJ:232:THR:HG23	2.15	0.46
2:SE:51:THR:HG23	2:SE:52:PHE:CD2	2.50	0.46
3:SF:81:PHE:O	3:SF:84:ILE:HG22	2.15	0.46
3:SH:183:TYR:HA	3:SH:186:THR:HG22	1.97	0.46
3:SH:350:LYS:HZ2	2:SI:181:VAL:HG23	1.81	0.46
2:SI:89:PRO:HD3	2:TI:283:HIS:CE1	2.50	0.46
2:TG:8:HIS:CD2	2:TG:17:GLY:HA3	2.51	0.46
2:TG:173:PRO:HG3	2:TG:183:GLU:OE2	2.16	0.46
2:TI:334:THR:O	2:TI:337:THR:OG1	2.25	0.46
3:UD:103:LYS:O	3:UD:107:THR:OG1	2.34	0.46
2:UE:387:ALA:O	2:UE:390:ARG:HG2	2.15	0.46
3:UF:6:HIS:CE1	3:UF:21:TRP:HZ2	2.34	0.46
3:UF:73:MET:HA	3:UF:76:VAL:HG22	1.97	0.46
2:UG:239:THR:OG1	2:UG:243:ARG:NH1	2.48	0.46
3:UH:153:SER:O	3:UH:156:ARG:HB2	2.16	0.46
3:VD:6:HIS:HE1	3:VD:8:GLN:HB2	1.81	0.46
3:VF:376:GLU:HG2	3:VF:377:LEU:N	2.29	0.46
2:VG:35:GLN:NE2	2:VG:59:GLY:O	2.47	0.46
2:VG:261:PRO:HA	3:VH:394:PHE:CE1	2.50	0.46
2:VG:317:MET:HA	2:VG:376:CYS:O	2.15	0.46
3:VH:309:ARG:H	3:VH:372:THR:HG1	1.55	0.46
3:VH:371:SER:OG	3:VH:372:THR:N	2.48	0.46
2:WE:6:SER:O	2:WE:65:ALA:HA	2.15	0.46
3:WF:310:TYR:HB2	3:WF:341:PHE:HD1	1.80	0.46
3:WH:77:ARG:HA	3:WH:82:GLY:HA3	1.98	0.46
2:WI:118:VAL:O	2:WI:122:ILE:HG13	2.15	0.46
2:WI:145:THR:OG1	25:WI:501:GTP:O1B	2.33	0.46
22:XE:24:ILE:HA	22:XE:63:ALA:HB2	1.97	0.46
23:XJ:180:ILE:O	23:XJ:183:ILE:HG22	2.15	0.46
23:XK:138:LYS:HA	23:XK:141:LEU:HD12	1.97	0.46
24:YK:158:LEU:HD13	24:YK:162:VAL:CG1	2.45	0.46
24:YN:125:LEU:HB3	24:YN:130:ALA:HB2	1.96	0.46
2:AE:370:LYS:CE	9:G1:87:PRO:HG2	2.46	0.46
3:AF:12:CYS:HB3	25:AF:501:GTP:O4'	2.16	0.46
2:AG:331:ALA:O	2:AG:335:ILE:HG12	2.15	0.46
2:AI:1:MET:HG3	2:AI:2:ARG:N	2.22	0.46
2:AI:280:LYS:HZ3	2:MI:89:PRO:HD2	1.79	0.46
2:AI:287:SER:O	2:AI:291:ILE:HG23	2.15	0.46
4:B7:167:GLU:O	4:B7:170:GLN:HG3	2.14	0.46
4:B8:343:HIS:HA	4:B8:346:GLU:CD	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:1:MET:HG3	2:BE:2:ARG:N	2.19	0.46
2:BE:301:GLN:N	2:BE:301:GLN:OE1	2.48	0.46
3:BH:11:GLN:HG3	25:BH:501:GTP:O5'	2.15	0.46
3:BH:19:LYS:NZ	3:BH:227:HIS:HB2	2.31	0.46
3:BH:207:LEU:O	3:BH:210:ILE:HG22	2.14	0.46
2:BI:38:SER:O	2:BI:40:LYS:HD3	2.15	0.46
2:BI:119:LEU:HA	2:BI:122:ILE:HG12	1.98	0.46
5:C8:340:PHE:CZ	5:C8:477:ARG:HG2	2.50	0.46
2:CG:243:ARG:HG3	2:CG:244:PHE:CD2	2.50	0.46
3:DD:2:ARG:NE	2:DE:96:LYS:HB3	2.31	0.46
3:DD:19:LYS:O	3:DD:22:GLU:HG3	2.14	0.46
3:DD:74:ASP:OD1	9:G1:400:LEU:HD12	2.15	0.46
3:DD:345:ILE:HD12	3:DD:346:PRO:HD2	1.97	0.46
2:DE:420:GLU:HA	2:DE:423:GLU:OE2	2.16	0.46
2:DG:306:ASP:OD2	2:DG:309:HIS:N	2.41	0.46
7:E2:46:ALA:O	7:E2:65:THR:HB	2.15	0.46
3:ED:309:ARG:NH2	3:ED:426:GLN:HE21	2.07	0.46
3:ED:375:GLN:OE1	3:ED:375:GLN:N	2.42	0.46
2:EE:42:ILE:HG12	2:EE:55:GLU:OE1	2.15	0.46
2:EE:389:ALA:HA	2:EE:392:ASP:OD2	2.16	0.46
3:EF:12:CYS:HA	3:EF:15:GLN:HB3	1.98	0.46
3:EF:84:ILE:O	3:EF:86:ARG:NH1	2.49	0.46
3:EF:331:LEU:HD21	2:EG:177:VAL:HG22	1.96	0.46
3:EH:27:GLU:OE1	3:EH:28:HIS:ND1	2.49	0.46
3:EH:28:HIS:CD2	3:EH:43:GLN:HB2	2.50	0.46
8:F2:355:ASN:O	8:F2:358:GLN:HG3	2.16	0.46
3:FF:36:TYR:OH	3:FF:44:LEU:HB2	2.16	0.46
9:G1:210:ASP:HB3	9:G1:213:THR:OG1	2.15	0.46
9:G2:44:THR:O	9:G2:45:MET:HE2	2.15	0.46
3:GD:239:CYS:SG	3:GD:248:ALA:HA	2.55	0.46
2:GE:304:LYS:HD2	2:GE:304:LYS:H	1.81	0.46
3:GF:385:PHE:HA	3:GF:388:MET:SD	2.56	0.46
2:GG:310:GLY:O	2:GG:342:GLN:NE2	2.48	0.46
2:GI:27:GLU:OE1	2:GI:27:GLU:N	2.36	0.46
11:H4:34:THR:O	11:H4:38:THR:HG23	2.15	0.46
3:HD:41:ASP:O	3:HD:45:GLU:HG3	2.16	0.46
3:HF:65:LEU:HD23	3:HF:66:VAL:N	2.30	0.46
3:HF:213:ARG:NE	3:HF:297:LYS:HD3	2.30	0.46
2:HG:174:ALA:HB3	2:HG:177:VAL:O	2.15	0.46
2:IE:326:LYS:HE2	3:IF:220:PRO:CG	2.46	0.46
3:IF:101:TRP:CE3	3:IF:187:LEU:HD13	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:167:LEU:HB3	2:IG:169:PHE:CE1	2.51	0.46
2:IG:338:LYS:NZ	2:IG:340:THR:HG23	2.30	0.46
3:IH:3:GLU:OE2	3:IH:127:CYS:HB2	2.15	0.46
3:IH:84:ILE:HD12	3:IH:84:ILE:H	1.80	0.46
3:IH:347:ASN:O	3:IH:350:LYS:NZ	2.48	0.46
2:II:2:ARG:HG2	2:II:242:LEU:HD23	1.96	0.46
3:JF:36:TYR:CE2	3:JF:44:LEU:HD13	2.50	0.46
3:JF:267:MET:HB2	3:JF:301:ALA:HB2	1.98	0.46
2:JG:3:GLU:CD	2:JG:132:LEU:H	2.19	0.46
3:JH:156:ARG:HD2	3:JH:156:ARG:HA	1.77	0.46
3:JH:217:LEU:H	3:JH:217:LEU:HD23	1.80	0.46
14:K2:187:LYS:HG3	14:K2:188:CYS:N	2.31	0.46
14:K3:329:SER:HB3	14:K3:464:ARG:HH21	1.81	0.46
14:K3:483:ASP:N	14:K3:483:ASP:OD1	2.48	0.46
2:KG:311:LYS:N	2:KG:382:THR:OG1	2.49	0.46
2:KG:329:ASN:HA	2:KG:332:ILE:HG12	1.97	0.46
3:KH:12:CYS:SG	3:KH:138:SER:HB2	2.56	0.46
15:L3:32:ARG:HD2	2:MI:393:HIS:HE2	1.80	0.46
15:L3:147:ASN:OD1	15:L3:148:LYS:HG3	2.15	0.46
2:LE:438:ASP:N	2:LE:438:ASP:OD1	2.47	0.46
3:LF:423:GLN:CB	16:M2:84:LEU:HD11	2.45	0.46
2:LI:8:HIS:HD1	2:LI:67:PHE:HE1	1.61	0.46
3:ND:2:ARG:HB3	3:ND:131:GLN:NE2	2.30	0.46
3:ND:7:LEU:HD23	3:ND:133:PHE:HB3	1.97	0.46
2:NE:207:GLU:HB2	2:NE:304:LYS:NZ	2.31	0.46
2:NG:272:TYR:CZ	2:NG:274:PRO:HG2	2.51	0.46
2:NG:332:ILE:O	2:NG:336:LYS:HG3	2.15	0.46
3:NH:15:GLN:HB3	3:NH:226:ASN:ND2	2.31	0.46
2:NI:9:VAL:HG12	2:NI:146:GLY:HA2	1.97	0.46
2:NI:182:VAL:HA	2:NI:185:TYR:HD2	1.80	0.46
2:NI:389:ALA:HA	2:NI:392:ASP:OD2	2.15	0.46
18:O1:55:ARG:HG2	18:O1:56:SER:H	1.80	0.46
3:OD:152:ILE:HA	3:OD:155:ILE:HG12	1.96	0.46
3:OD:172:SER:OG	3:OD:174:LYS:HG2	2.15	0.46
3:OD:255:VAL:HA	2:OE:407:TRP:CH2	2.50	0.46
2:OE:1:MET:O	2:OE:131:GLY:HA3	2.16	0.46
3:OF:2:ARG:HH12	2:OG:72:PRO:CD	2.27	0.46
2:OG:19:ALA:O	2:OG:23:LEU:HG	2.15	0.46
2:OG:420:GLU:HA	2:OG:423:GLU:OE2	2.15	0.46
3:OH:105:HIS:HD2	3:OH:106:TYR:CZ	2.34	0.46
3:OH:213:ARG:O	3:OH:216:LYS:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:324:LYS:HE2	2:OI:222:PRO:HD2	1.98	0.46
3:OH:380:ARG:HA	3:OH:383:GLU:OE1	2.16	0.46
2:OI:145:THR:HG23	25:OI:501:GTP:O3B	2.15	0.46
19:P1:426:THR:OG1	19:P1:428:ASP:OD1	2.22	0.46
19:P2:487:ILE:O	19:P2:496:ASN:N	2.47	0.46
3:PF:6:HIS:O	3:PF:63:ALA:HA	2.14	0.46
2:PG:334:THR:O	2:PG:337:THR:OG1	2.28	0.46
2:PG:365:GLY:H	24:YK:40:ILE:CD1	2.28	0.46
20:Q1:1469:LEU:N	20:Q1:1504:LYS:HB3	2.31	0.46
20:Q2:1410:LYS:HZ3	20:Q2:1418:MET:HB2	1.79	0.46
20:Q2:1437:TYR:CE1	20:Q2:1496:TYR:HB2	2.49	0.46
3:QF:285:THR:O	3:QF:288:GLU:HG3	2.15	0.46
3:QH:19:LYS:HZ2	3:QH:227:HIS:HB2	1.80	0.46
3:QH:324:LYS:HD3	2:QI:210:TYR:CE1	2.51	0.46
2:QI:151:SER:O	2:QI:154:MET:HG3	2.16	0.46
2:QI:213:CYS:O	2:QI:218:ASP:N	2.48	0.46
2:RE:36:MET:HG2	2:RE:41:THR:HG21	1.97	0.46
2:RE:265:ILE:HD12	2:RE:432:TYR:CE1	2.50	0.46
2:RE:430:LYS:HG3	2:RE:431:ASP:N	2.30	0.46
3:RF:345:ILE:HD12	3:RF:346:PRO:HD2	1.98	0.46
2:RG:1:MET:SD	2:RG:3:GLU:HB3	2.56	0.46
2:RG:152:LEU:HD12	2:RG:153:LEU:N	2.30	0.46
2:RG:251:ASP:HB3	2:RG:254:GLU:OE1	2.14	0.46
2:RI:9:VAL:HG11	2:RI:150:ALA:HB2	1.96	0.46
2:RI:214:ARG:HH12	2:RI:215:ARG:HG3	1.80	0.46
3:RJ:229:VAL:O	3:RJ:232:THR:OG1	2.20	0.46
2:SE:196:GLU:OE1	2:SE:196:GLU:N	2.31	0.46
3:SF:8:GLN:OE1	3:SF:17:GLY:HA3	2.15	0.46
3:SF:273:LEU:H	3:SF:292:GLN:NE2	2.06	0.46
2:SG:66:VAL:HG12	2:SG:68:VAL:HG13	1.97	0.46
2:SG:201:ALA:O	2:SG:267:PHE:HA	2.16	0.46
3:SH:40:SER:HB2	3:SH:43:GLN:HG2	1.97	0.46
3:SH:278:SER:O	3:SH:282:ARG:HB2	2.15	0.46
3:SJ:172:SER:HB3	3:SJ:175:VAL:O	2.16	0.46
3:SJ:373:ALA:O	3:SJ:376:GLU:HG3	2.15	0.46
3:TF:197:ASP:O	3:TF:264:HIS:ND1	2.49	0.46
2:TI:3:GLU:N	2:TI:3:GLU:OE1	2.49	0.46
2:TI:135:PHE:CD2	2:TI:166:LYS:HE3	2.50	0.46
3:TJ:84:ILE:O	3:TJ:86:ARG:NH1	2.48	0.46
2:UE:5:ILE:HD13	2:UE:64:ARG:HB3	1.98	0.46
2:UE:172:TYR:HB2	2:UE:203:MET:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:320:ARG:HD3	2:UE:360:PRO:HG3	1.97	0.46
2:UE:326:LYS:HA	2:UE:329:ASN:HD21	1.81	0.46
3:UH:64:VAL:HA	3:UH:89:ASN:ND2	2.27	0.46
3:UH:320:ARG:H	3:UH:363:MET:CE	2.28	0.46
3:VF:20:PHE:CE2	3:VF:24:ILE:HD11	2.50	0.46
3:VF:344:TRP:CZ2	2:VG:401:LYS:HB2	2.51	0.46
2:VG:17:GLY:O	2:VG:21:TRP:CD1	2.69	0.46
2:VG:133:GLN:HB3	2:VG:252:LEU:HD21	1.97	0.46
3:VH:349:VAL:O	3:VH:350:LYS:NZ	2.32	0.46
2:WE:99:ALA:HA	2:WE:105:ARG:HE	1.81	0.46
2:WE:265:ILE:HD12	2:WE:432:TYR:CE1	2.51	0.46
2:WE:404:PHE:HB3	2:WE:407:TRP:CD1	2.50	0.46
3:WH:213:ARG:O	3:WH:216:LYS:HE2	2.15	0.46
2:WI:11:GLN:HA	2:WI:14:VAL:HG22	1.97	0.46
2:WI:427:ALA:HA	2:WI:430:LYS:HG2	1.97	0.46
22:XE:168:SER:HB2	22:XE:172:TYR:CE1	2.50	0.46
23:XK:135:ILE:HA	23:XK:138:LYS:HZ2	1.80	0.46
23:XK:155:VAL:O	23:XK:159:LEU:HG	2.16	0.46
24:YJ:12:GLU:OE2	24:YJ:145:LEU:HD11	2.15	0.46
24:YL:145:LEU:O	24:YL:149:LYS:HG3	2.15	0.46
24:YN:59:ASN:HD22	24:YN:62:HIS:CE1	2.33	0.46
2:AE:196:GLU:OE1	2:AE:196:GLU:N	2.33	0.46
3:AF:151:LEU:HD22	3:AF:154:LYS:HZ1	1.80	0.46
3:AF:207:LEU:HD11	3:AF:228:LEU:HD12	1.98	0.46
3:AF:218:THR:OG1	3:AF:219:THR:N	2.48	0.46
3:AF:328:GLU:OE1	3:AF:332:ASN:ND2	2.44	0.46
2:AG:150:ALA:HA	2:AG:153:LEU:HG	1.96	0.46
4:B7:85:LEU:HA	4:B7:233:MET:HE2	1.98	0.46
4:B7:161:HIS:HE1	4:B7:235:ALA:HB1	1.81	0.46
4:B7:161:HIS:CE1	4:B7:235:ALA:HB1	2.50	0.46
2:BE:2:ARG:HG2	2:BE:242:LEU:HD23	1.98	0.46
2:BE:113:GLU:N	2:BE:113:GLU:OE1	2.49	0.46
2:BE:133:GLN:HB3	2:BE:252:LEU:HD21	1.98	0.46
2:BE:242:LEU:HD12	2:BE:242:LEU:H	1.80	0.46
3:BF:114:ASP:N	3:BF:114:ASP:OD1	2.49	0.46
2:BG:16:ILE:HG13	2:BG:17:GLY:N	2.30	0.46
3:BH:330:MET:HG3	3:BH:349:VAL:HG21	1.97	0.46
5:C3:296:VAL:HA	5:C4:413:ARG:NH2	2.31	0.46
3:CF:192:LEU:O	3:CF:196:THR:HG22	2.16	0.46
3:CH:48:ASN:C	3:CH:62:ARG:HH22	2.19	0.46
3:CH:58:LYS:HE3	3:DF:280:GLN:HE21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:69:GLU:CD	3:CH:71:GLY:H	2.19	0.46
3:DD:395:LEU:HG	3:DD:399:THR:HG23	1.96	0.46
7:E3:74:ASP:OD1	7:E3:74:ASP:N	2.47	0.46
3:ED:152:ILE:O	3:ED:156:ARG:HG2	2.16	0.46
3:EF:138:SER:HA	3:EF:169:VAL:HG12	1.98	0.46
2:EG:16:ILE:HD11	2:EG:138:PHE:HB3	1.97	0.46
2:EG:326:LYS:HG3	3:EH:220:PRO:HD2	1.98	0.46
2:EG:387:ALA:O	2:EG:390:ARG:HG2	2.16	0.46
3:EH:4:ILE:HD11	3:EH:131:GLN:HB2	1.98	0.46
3:EH:31:ASP:OD1	3:EH:31:ASP:N	2.47	0.46
3:EH:68:LEU:HD12	3:EH:97:ALA:HB2	1.96	0.46
8:F2:153:LYS:NZ	8:F2:258:SER:HB3	2.28	0.46
8:F3:151:PHE:O	8:F3:154:SER:OG	2.27	0.46
8:F7:403:PRO:HG2	8:F7:406:GLU:OE2	2.15	0.46
2:FE:88:HIS:HE1	2:FE:90:GLU:HG2	1.79	0.46
2:FE:168:GLU:O	2:FE:201:ALA:HA	2.15	0.46
2:FE:282:TYR:HA	10:G5:710:PRO:HG3	1.96	0.46
2:FE:408:TYR:CD2	2:FE:418:PHE:HZ	2.34	0.46
3:FF:375:GLN:HA	3:FF:378:PHE:CE2	2.51	0.46
9:G2:350:PHE:O	9:G2:353:GLN:NE2	2.45	0.46
9:G2:384:TYR:OH	9:G2:388:GLY:N	2.48	0.46
10:G5:329:GLU:OE2	10:G5:331:ASP:N	2.49	0.46
10:G5:527:GLU:HG2	10:G5:528:TYR:N	2.31	0.46
10:G5:606:TYR:O	10:G5:733:VAL:HG23	2.15	0.46
3:GD:130:LEU:HG	3:GD:132:GLY:N	2.31	0.46
3:GF:28:HIS:ND1	3:GF:43:GLN:HB2	2.31	0.46
3:GF:277:GLY:O	3:GF:280:GLN:NE2	2.48	0.46
2:GG:174:ALA:HB3	2:GG:177:VAL:O	2.16	0.46
2:GG:180:ALA:HB1	2:GG:182:VAL:HG12	1.97	0.46
3:GH:67:ASP:OD2	3:GH:72:THR:OG1	2.29	0.46
3:GH:137:HIS:NE2	3:GH:168:SER:HB2	2.30	0.46
2:HE:49:PHE:HB2	2:HE:53:PHE:HD2	1.80	0.46
3:HH:324:LYS:HE2	2:HI:222:PRO:CD	2.43	0.46
2:HI:206:ASN:HA	2:HI:209:ILE:HD12	1.97	0.46
2:IE:16:ILE:HB	2:IE:231:ILE:HD11	1.98	0.46
3:IF:378:PHE:CE1	3:IF:419:VAL:HG22	2.50	0.46
3:IH:83:GLN:O	3:IH:86:ARG:NH2	2.48	0.46
3:IH:324:LYS:HE2	2:II:222:PRO:HD2	1.98	0.46
2:II:244:PHE:HB2	2:II:356:ASN:HD21	1.81	0.46
3:JD:218:THR:OG1	3:JD:219:THR:N	2.49	0.46
3:JD:268:PRO:HD2	3:JD:301:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:310:TYR:HD2	3:JD:341:PHE:HE1	1.61	0.46
3:JD:350:LYS:HZ1	2:JE:181:VAL:HG13	1.80	0.46
2:JE:185:TYR:OH	2:JE:403:ALA:O	2.32	0.46
2:JE:414:GLU:N	2:JE:414:GLU:OE1	2.48	0.46
3:JF:39:ASP:OD1	3:JF:39:ASP:N	2.49	0.46
3:JF:101:TRP:CE3	3:JF:187:LEU:HD13	2.51	0.46
2:JG:311:LYS:O	2:JG:381:THR:OG1	2.23	0.46
14:K3:338:GLN:HA	14:K3:341:ARG:CZ	2.45	0.46
3:KD:375:GLN:OE1	3:KD:375:GLN:N	2.30	0.46
2:KE:331:ALA:O	2:KE:335:ILE:HG12	2.15	0.46
3:KF:19:LYS:O	3:KF:23:VAL:HG23	2.16	0.46
3:KF:113:VAL:HA	3:KF:116:VAL:HG22	1.97	0.46
2:KG:15:GLN:OE1	25:KG:501:GTP:N1	2.47	0.46
2:KG:207:GLU:HB2	2:KG:304:LYS:NZ	2.30	0.46
2:KI:56:THR:HB	2:LI:285:GLN:HG3	1.98	0.46
3:LD:224:ASP:O	3:LD:228:LEU:HG	2.15	0.46
3:LD:302:ALA:HB1	3:LD:377:LEU:HD21	1.97	0.46
2:LE:234:ILE:O	2:LE:237:SER:OG	2.25	0.46
3:LF:252:LYS:CD	2:LG:100:ALA:HA	2.43	0.46
3:LF:296:ALA:O	3:LF:299:MET:HB3	2.16	0.46
2:LG:113:GLU:OE1	2:LG:113:GLU:N	2.48	0.46
3:LH:83:GLN:H	3:LH:83:GLN:CD	2.17	0.46
3:LH:251:ARG:O	3:LH:255:VAL:HG22	2.16	0.46
3:MF:2:ARG:HH21	3:MF:129:CYS:HB2	1.81	0.46
2:MG:211:ASP:O	2:MG:214:ARG:NH1	2.49	0.46
2:MG:260:VAL:O	3:MH:397:TRP:HH2	1.99	0.46
2:MG:329:ASN:O	2:MG:332:ILE:HG22	2.16	0.46
2:NE:119:LEU:HA	2:NE:122:ILE:HG12	1.97	0.46
2:NE:138:PHE:HE1	2:NE:169:PHE:HD2	1.64	0.46
2:NE:200:CYS:HB3	2:NE:202:PHE:CZ	2.50	0.46
2:NE:208:ALA:N	2:NE:304:LYS:HZ1	2.12	0.46
2:NE:247:ALA:HB3	2:NE:355:ILE:HB	1.97	0.46
3:NF:217:LEU:O	3:NF:219:THR:N	2.46	0.46
3:NF:286:VAL:HG11	3:NF:325:GLU:HB2	1.98	0.46
2:NI:178:SER:OG	2:NI:180:ALA:O	2.32	0.46
2:NI:229:ARG:HH21	2:NI:368:LEU:HD13	1.79	0.46
2:OE:229:ARG:HE	2:OE:368:LEU:HD22	1.81	0.46
3:OF:138:SER:HB2	3:OF:169:VAL:HG12	1.98	0.46
2:OG:79:ARG:O	2:OG:84:ARG:NE	2.48	0.46
2:OI:24:TYR:HA	2:OI:27:GLU:OE1	2.16	0.46
19:P1:33:HIS:NE2	19:P1:76:GLY:O	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P2:59:PHE:O	19:P2:60:LEU:HD22	2.15	0.46
19:P2:506:GLN:NE2	19:P2:507:CYS:HB3	2.31	0.46
2:PE:88:HIS:O	2:PE:91:GLN:HG3	2.16	0.46
3:PH:421:GLU:HG2	3:PH:425:TYR:CE2	2.50	0.46
2:PI:185:TYR:HA	2:PI:395:PHE:CE2	2.48	0.46
2:PI:189:LEU:HA	2:PI:192:HIS:ND1	2.30	0.46
20:Q1:1358:ILE:N	20:Q1:1393:LYS:HB3	2.30	0.46
2:QE:97:GLU:OE2	2:QE:105:ARG:NH2	2.39	0.46
2:QG:89:PRO:HD2	2:RG:280:LYS:HZ3	1.81	0.46
2:QG:280:LYS:HZ2	2:QG:284:GLU:CD	2.19	0.46
2:QG:326:LYS:HG3	2:QG:327:ASP:N	2.30	0.46
3:QH:163:ILE:HD11	3:QH:251:ARG:HG3	1.96	0.46
3:QH:291:GLN:NE2	3:QH:295:ASP:OD1	2.49	0.46
2:QI:88:HIS:HE1	2:QI:90:GLU:CD	2.19	0.46
2:QI:279:GLU:HB2	24:YM:127:CYS:SG	2.56	0.46
2:RG:187:SER:O	2:RG:191:THR:HG23	2.16	0.46
3:RH:412:GLU:HA	3:RH:415:MET:SD	2.56	0.46
2:SE:338:LYS:HZ3	2:SE:339:ARG:H	1.62	0.46
3:SH:5:VAL:O	3:SH:133:PHE:HA	2.16	0.46
3:SH:190:HIS:HA	3:SH:414:ASN:HD22	1.79	0.46
2:SI:363:VAL:HG13	2:SI:366:GLY:HA3	1.98	0.46
3:SJ:21:TRP:CE3	3:SJ:61:PRO:HB3	2.50	0.46
3:TF:277:GLY:O	3:TF:280:GLN:NE2	2.48	0.46
3:TF:334:GLN:O	3:TF:338:SER:OG	2.34	0.46
2:TG:292:THR:HA	2:TG:295:CYS:SG	2.55	0.46
2:TG:392:ASP:OD1	2:TG:393:HIS:N	2.49	0.46
2:TI:225:THR:O	2:TI:229:ARG:HG3	2.15	0.46
3:UD:47:ILE:HG12	3:UD:59:TYR:CD2	2.50	0.46
2:UE:53:PHE:CE1	2:UE:63:PRO:HG3	2.51	0.46
2:UE:88:HIS:HE1	2:UE:90:GLU:HG2	1.80	0.46
2:UE:173:PRO:HB2	2:UE:390:ARG:NH2	2.28	0.46
2:UE:173:PRO:HG3	2:UE:183:GLU:OE2	2.15	0.46
3:UF:148:GLY:O	3:UF:152:ILE:HG12	2.16	0.46
3:UF:374:ILE:HA	3:UF:377:LEU:HD13	1.98	0.46
3:VD:296:ALA:O	3:VD:299:MET:HB3	2.15	0.46
3:VD:379:LYS:O	3:VD:383:GLU:OE1	2.33	0.46
2:VE:262:TYR:HE1	3:VF:393:ALA:HA	1.80	0.46
3:VF:292:GLN:HG2	3:VF:298:ASN:ND2	2.31	0.46
2:WE:192:HIS:CE1	2:WE:193:THR:HG23	2.50	0.46
2:WE:247:ALA:HB3	2:WE:355:ILE:HB	1.97	0.46
2:WE:331:ALA:O	2:WE:334:THR:OG1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:6:SER:OG	2:WG:8:HIS:NE2	2.40	0.46
2:WG:214:ARG:HH12	2:WG:215:ARG:HG3	1.79	0.46
3:WH:377:LEU:O	3:WH:381:ILE:HG23	2.15	0.46
2:WI:319:TYR:HA	2:WI:374:ALA:O	2.15	0.46
22:XC:1:MET:HB3	22:XC:67:LYS:HE3	1.97	0.46
23:XK:168:GLU:OE1	23:XK:168:GLU:N	2.33	0.46
24:YI:16:LYS:O	24:YI:19:GLN:HG2	2.15	0.46
24:YI:82:HIS:O	24:YI:86:LEU:HG	2.15	0.46
24:YN:141:ILE:HB	24:YN:142:PRO:HD3	1.97	0.46
2:AE:51:THR:HG23	2:AE:52:PHE:CD2	2.50	0.46
2:AE:248:LEU:H	2:AE:248:LEU:HD23	1.81	0.46
2:AE:265:ILE:HD12	2:AE:432:TYR:CE1	2.51	0.46
2:AE:310:GLY:HA3	2:AE:383:ALA:HB2	1.97	0.46
2:AE:352:LYS:HD2	2:AE:352:LYS:HA	1.74	0.46
3:AF:327:ASP:OD1	2:AG:177:VAL:HG11	2.16	0.46
2:AG:89:PRO:HB2	2:AG:90:GLU:OE1	2.15	0.46
2:AG:438:ASP:O	3:AH:391:ARG:NH2	2.43	0.46
3:AH:204:ASN:OD1	3:AH:204:ASN:N	2.48	0.46
2:AI:362:VAL:HA	2:AI:368:LEU:HD11	1.97	0.46
4:B7:216:GLN:OE1	4:B7:216:GLN:N	2.48	0.46
2:BE:296:PHE:CE2	2:BE:335:ILE:HG21	2.50	0.46
3:BF:302:ALA:CB	3:BF:377:LEU:HD11	2.45	0.46
3:BH:284:LEU:HD23	3:BH:363:MET:SD	2.56	0.46
2:BI:48:SER:O	2:BI:51:THR:HG22	2.15	0.46
2:BI:254:GLU:N	2:BI:254:GLU:OE1	2.47	0.46
5:C7:94:TYR:CZ	5:C8:208:ILE:HD12	2.50	0.46
3:CH:137:HIS:O	3:CH:168:SER:HA	2.16	0.46
3:CH:334:GLN:HA	3:CH:341:PHE:HE2	1.81	0.46
2:CI:332:ILE:HG21	3:CJ:175:VAL:HG21	1.98	0.46
3:CJ:11:GLN:HA	3:CJ:14:ASN:CG	2.35	0.46
6:D7:351:ARG:NH1	6:D8:240:PHE:HD1	2.10	0.46
6:D9:103:VAL:HG22	6:D9:106:ARG:NH2	2.31	0.46
2:EE:11:GLN:HG2	25:EE:501:GTP:O3G	2.16	0.46
3:EF:271:ALA:HB1	3:EF:272:PRO:HD2	1.97	0.46
3:EH:139:LEU:HD11	3:EH:171:PRO:HD3	1.97	0.46
3:FD:167:PHE:HZ	3:FD:229:VAL:HG21	1.80	0.46
2:FG:242:LEU:HD12	2:FG:242:LEU:H	1.80	0.46
2:FG:372:GLN:HB3	2:FG:373:ARG:NH1	2.31	0.46
9:G1:27:ARG:HD3	9:G1:27:ARG:H	1.80	0.46
9:G2:451:ILE:HD11	9:G2:467:LEU:HB3	1.98	0.46
9:G2:474:LYS:HB2	9:G2:485:TYR:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G5:386:ILE:HG22	10:G5:387:GLU:N	2.31	0.46
10:G5:680:ARG:HA	10:G5:680:ARG:HD2	1.72	0.46
3:GD:39:ASP:OD1	3:GD:39:ASP:N	2.48	0.46
3:GD:46:ARG:HA	3:GD:46:ARG:HD3	1.75	0.46
2:GE:186:ASN:OD1	2:GE:187:SER:N	2.49	0.46
2:GE:234:ILE:HD11	2:GE:272:TYR:HB2	1.97	0.46
3:GF:161:ASP:OD1	3:GF:162:ARG:HG2	2.16	0.46
3:GF:313:VAL:HG23	3:GF:349:VAL:HA	1.97	0.46
2:GG:88:HIS:HB3	2:GG:91:GLN:CG	2.45	0.46
2:GI:226:ASN:O	2:GI:230:LEU:HG	2.16	0.46
3:HD:101:TRP:N	3:HD:398:TYR:OH	2.43	0.46
3:HD:153:SER:HB3	3:HD:191:GLN:HE22	1.78	0.46
3:HD:330:MET:HA	3:HD:333:VAL:HG12	1.97	0.46
3:HF:372:THR:HG21	3:HF:426:GLN:CB	2.45	0.46
2:HG:188:ILE:HG21	2:HG:421:ALA:HB1	1.98	0.46
2:HI:188:ILE:HG12	2:HI:421:ALA:HB1	1.98	0.46
2:IE:244:PHE:HB2	2:IE:356:ASN:ND2	2.28	0.46
2:IE:426:ALA:O	2:IE:430:LYS:HG2	2.15	0.46
3:IF:34:GLY:HA3	3:IF:58:LYS:HG3	1.98	0.46
3:IH:350:LYS:HE3	2:II:181:VAL:H	1.81	0.46
3:IH:374:ILE:HG22	3:IH:378:PHE:CD2	2.47	0.46
2:II:295:CYS:O	2:II:301:GLN:NE2	2.49	0.46
3:JD:188:SER:O	3:JD:192:LEU:HG	2.15	0.46
3:JD:299:MET:SD	3:JD:305:PRO:HD2	2.56	0.46
3:JD:406:MET:HE3	3:ND:306:ARG:HG3	1.96	0.46
3:JF:2:ARG:HB3	3:JF:131:GLN:NE2	2.30	0.46
3:JF:256:ASN:HD21	2:JG:101:ASN:ND2	2.13	0.46
3:JF:374:ILE:HG22	3:JF:378:PHE:HD2	1.80	0.46
3:JH:130:LEU:HD13	3:JH:133:PHE:CZ	2.51	0.46
2:KE:5:ILE:HD13	2:KE:64:ARG:HB3	1.98	0.46
2:KE:338:LYS:NZ	2:KE:339:ARG:H	2.13	0.46
3:KF:19:LYS:NZ	3:KF:227:HIS:HB2	2.30	0.46
3:KF:197:ASP:OD1	3:KF:197:ASP:N	2.46	0.46
2:KG:21:TRP:HE1	2:KG:63:PRO:HB3	1.81	0.46
3:KH:12:CYS:O	3:KH:16:ILE:HG12	2.16	0.46
2:KI:144:GLY:HA3	25:KI:501:GTP:O3G	2.15	0.46
2:KI:272:TYR:CZ	2:KI:274:PRO:HG2	2.51	0.46
15:L2:164:ASP:O	15:L2:168:ALA:HB3	2.15	0.46
3:LD:309:ARG:N	3:LD:372:THR:HG1	2.10	0.46
2:LE:127:ASP:OD1	2:LE:128:LEU:N	2.44	0.46
3:LF:206:ALA:O	3:LF:210:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:260:VAL:HG23	2:LG:265:ILE:O	2.15	0.46
2:LI:116:ASP:N	2:LI:116:ASP:OD1	2.49	0.46
2:ME:132:LEU:O	2:ME:132:LEU:HD23	2.16	0.46
2:ME:175:PRO:O	2:ME:390:ARG:HD3	2.15	0.46
3:MH:143:THR:HG22	3:MH:147:MET:CE	2.46	0.46
2:MI:356:ASN:OD1	2:MI:357:TYR:N	2.49	0.46
3:ND:347:ASN:HB3	2:NE:178:SER:HB3	1.96	0.46
2:NE:229:ARG:NH1	2:NE:366:GLY:HA2	2.31	0.46
3:NF:2:ARG:NE	3:NF:129:CYS:HB2	2.30	0.46
3:NF:170:VAL:N	3:NF:202:ILE:O	2.32	0.46
2:NG:113:GLU:N	2:NG:113:GLU:OE1	2.49	0.46
2:NI:390:ARG:O	2:NI:394:LYS:HG2	2.16	0.46
18:O2:74:ILE:HG13	18:O2:76:PRO:HD2	1.97	0.46
2:OE:184:PRO:HB2	2:OE:395:PHE:CD2	2.46	0.46
3:OF:28:HIS:ND1	3:OF:43:GLN:OE1	2.48	0.46
2:OG:53:PHE:O	2:OG:64:ARG:NH1	2.48	0.46
2:OG:174:ALA:HB3	2:OG:177:VAL:O	2.16	0.46
2:OG:346:TRP:CE3	3:OH:391:ARG:HD2	2.50	0.46
3:OH:379:LYS:HA	3:OH:379:LYS:HE2	1.97	0.46
2:OI:90:GLU:HG2	2:OI:121:ARG:NH2	2.30	0.46
19:P1:63:HIS:CD2	19:P1:94:ILE:HD12	2.51	0.46
19:P1:346:GLU:O	19:P1:360:HIS:HA	2.16	0.46
19:P2:431:ARG:NH2	19:P2:490:LEU:HD21	2.31	0.46
2:PE:108:TYR:O	2:PE:112:LYS:NZ	2.39	0.46
3:PF:249:ASP:OD1	3:PF:250:LEU:N	2.49	0.46
3:PF:252:LYS:HE3	25:PG:501:GTP:O2G	2.16	0.46
3:PF:278:SER:HA	3:PF:281:TYR:HB2	1.98	0.46
2:PG:89:PRO:HB2	2:PG:90:GLU:OE1	2.14	0.46
3:PH:374:ILE:HD12	3:PH:374:ILE:H	1.81	0.46
3:PH:375:GLN:HA	3:PH:378:PHE:CZ	2.49	0.46
2:PI:205:ASP:O	2:PI:209:ILE:HG12	2.14	0.46
2:PI:230:LEU:O	2:PI:233:GLN:HG3	2.16	0.46
2:PI:414:GLU:OE1	2:PI:416:GLY:N	2.30	0.46
20:Q2:1411:GLU:H	20:Q2:1418:MET:CE	2.29	0.46
2:QE:1:MET:N	2:QE:130:THR:OG1	2.48	0.46
3:QF:173:PRO:HA	3:QF:380:ARG:CZ	2.45	0.46
3:QF:252:LYS:HG2	2:QG:100:ALA:HA	1.98	0.46
3:QH:117:LEU:HA	3:QH:120:VAL:HG22	1.98	0.46
2:QI:286:LEU:HD11	2:QI:373:ARG:H	1.80	0.46
2:QI:358:GLN:NE2	2:QI:359:PRO:O	2.48	0.46
2:RE:262:TYR:CE1	3:RF:393:ALA:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:380:ARG:O	3:RF:384:GLN:NE2	2.48	0.46
2:RG:68:VAL:HA	2:RG:93:ILE:HB	1.97	0.46
2:RG:189:LEU:HA	2:RG:192:HIS:CE1	2.50	0.46
3:RH:20:PHE:HA	3:RH:230:SER:HB2	1.97	0.46
2:RI:256:GLN:NE2	2:RI:257:THR:HG23	2.30	0.46
3:RJ:190:HIS:NE2	3:RJ:414:ASN:OD1	2.49	0.46
2:SE:280:LYS:HD2	2:SE:283:HIS:NE2	2.31	0.46
3:SF:21:TRP:CZ3	3:SF:51:TYR:HE1	2.33	0.46
3:SF:68:LEU:HB3	3:SF:95:SER:O	2.15	0.46
2:SI:136:LEU:HB3	2:SI:138:PHE:CE1	2.51	0.46
2:SI:280:LYS:NZ	2:SI:284:GLU:OE2	2.41	0.46
3:TF:165:ASN:OD1	3:TF:166:THR:N	2.49	0.46
2:TG:91:GLN:HB3	2:TG:121:ARG:HH21	1.78	0.46
2:TI:6:SER:HG	2:TI:8:HIS:CE1	2.34	0.46
2:TI:211:ASP:O	2:TI:214:ARG:HD3	2.16	0.46
2:TI:264:ARG:HG2	2:TI:265:ILE:N	2.31	0.46
2:UE:145:THR:OG1	25:UE:501:GTP:O1B	2.32	0.46
2:UE:352:LYS:HZ3	3:UF:178:THR:HG22	1.80	0.46
3:UF:232:THR:HG22	3:UF:270:PHE:CD1	2.51	0.46
2:VG:16:ILE:HD12	2:VG:138:PHE:CD1	2.50	0.46
2:WE:117:LEU:O	2:WE:121:ARG:HG2	2.15	0.46
3:WF:125:GLU:OE1	22:XD:17:ILE:HD12	2.16	0.46
2:WG:130:THR:HG22	23:XK:105:PHE:CE2	2.51	0.46
2:WG:192:HIS:CE1	2:WG:193:THR:HG23	2.50	0.46
2:WI:55:GLU:HA	2:WI:60:LYS:O	2.16	0.46
2:WI:370:LYS:O	2:WI:372:GLN:NE2	2.48	0.46
23:XL:105:PHE:CD1	23:XL:106:PRO:HA	2.50	0.46
24:YM:96:LEU:HA	24:YM:99:LYS:HE3	1.97	0.46
2:AE:211:ASP:O	2:AE:214:ARG:HG3	2.16	0.46
4:B7:52:GLN:NE2	4:B7:56:ASP:OD2	2.48	0.46
4:B8:345:LEU:O	4:B8:349:ILE:HG12	2.16	0.46
3:BF:406:MET:O	3:BF:409:THR:OG1	2.27	0.46
2:BG:145:THR:HG23	25:BG:501:GTP:O3B	2.16	0.46
2:BG:311:LYS:HE3	2:BG:344:VAL:HG12	1.98	0.46
2:BG:397:LEU:HB3	2:BG:401:LYS:HZ1	1.81	0.46
3:BH:121:ARG:NH2	3:BH:158:GLU:OE2	2.47	0.46
2:BI:206:ASN:O	2:BI:209:ILE:HG22	2.16	0.46
5:C2:295:SER:CB	5:C3:413:ARG:H	2.28	0.46
5:C3:330:ILE:HD12	7:E2:184:ARG:NE	2.31	0.46
3:CF:270:PHE:CG	3:CF:271:ALA:N	2.84	0.46
2:CG:104:ALA:HB1	2:CG:413:MET:HE3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:392:ASP:HB2	2:CG:422:ARG:NH2	2.30	0.46
3:CH:349:VAL:C	3:CH:350:LYS:HE2	2.36	0.46
3:CJ:267:MET:O	3:CJ:368:ILE:HD12	2.15	0.46
6:D3:247:PHE:CG	6:D4:357:LEU:HD21	2.50	0.46
6:D3:272:ARG:NH2	6:D3:273:LEU:HG	2.30	0.46
6:D3:346:LYS:O	6:D3:349:PRO:HD2	2.16	0.46
6:D4:333:GLU:O	6:D4:336:ILE:HG22	2.15	0.46
3:DD:378:PHE:CD1	3:DD:419:VAL:HG22	2.49	0.46
2:DE:171:ILE:HG21	25:DE:501:GTP:N2	2.31	0.46
3:DF:206:ALA:HB3	3:DF:300:MET:O	2.16	0.46
3:DH:111:GLU:N	3:DH:111:GLU:OE1	2.49	0.46
3:DH:180:VAL:HG22	3:DH:183:TYR:HB2	1.98	0.46
3:ED:6:HIS:HA	3:ED:134:GLN:OE1	2.16	0.46
3:ED:162:ARG:HA	3:ED:162:ARG:HD3	1.67	0.46
2:EE:47:ASP:O	2:EE:49:PHE:N	2.49	0.46
2:EE:320:ARG:HD3	2:EE:360:PRO:HG3	1.97	0.46
2:EG:306:ASP:OD2	2:EG:309:HIS:N	2.49	0.46
8:F2:151:PHE:O	8:F2:154:SER:OG	2.32	0.46
8:F3:286:PHE:CZ	8:F3:288:GLY:HA3	2.50	0.46
2:FE:75:VAL:HA	2:FE:78:VAL:HG12	1.97	0.46
2:FE:313:MET:SD	2:FE:344:VAL:HG21	2.56	0.46
2:FG:56:THR:HG21	2:GG:285:GLN:HB2	1.98	0.46
2:FG:85:GLN:OE1	2:FG:85:GLN:N	2.35	0.46
2:FG:244:PHE:CE2	2:FG:358:GLN:HG2	2.51	0.46
2:FG:258:ASN:HD21	3:FH:178:THR:HG23	1.79	0.46
3:FH:218:THR:HG22	3:FH:219:THR:HG23	1.98	0.46
3:FH:233:MET:O	3:FH:236:VAL:HG12	2.16	0.46
9:G1:147:LYS:NZ	9:G1:149:ILE:O	2.44	0.46
10:G5:331:ASP:N	10:G5:331:ASP:OD1	2.45	0.46
10:G5:659:ARG:HB2	10:G5:663:LYS:NZ	2.31	0.46
10:G5:724:MET:HB3	10:G5:725:PRO:HD3	1.98	0.46
3:GD:15:GLN:HE21	3:GD:222:TYR:HD1	1.63	0.46
3:GD:319:GLY:O	3:GD:355:ASP:HA	2.15	0.46
3:GF:211:CYS:O	3:GF:215:LEU:HB2	2.16	0.46
3:GF:318:ARG:HB3	3:GF:364:SER:OG	2.16	0.46
2:GG:3:GLU:N	2:GG:133:GLN:OE1	2.39	0.46
2:GG:145:THR:OG1	25:GG:501:GTP:O1B	2.34	0.46
2:GG:261:PRO:HB3	2:GG:346:TRP:CH2	2.47	0.46
2:GG:415:GLU:HA	2:GG:418:PHE:HD2	1.81	0.46
3:GH:405:GLU:OE1	3:GH:405:GLU:N	2.47	0.46
11:H3:227:ARG:HD2	11:H3:230:TRP:CE3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:H3:299:THR:HG1	11:H3:302:ASN:HB2	1.80	0.46
2:HE:114:ILE:O	2:HE:118:VAL:HG23	2.15	0.46
2:HG:237:SER:HA	2:HG:320:ARG:HH11	1.80	0.46
2:IE:187:SER:O	2:IE:191:THR:HG23	2.16	0.46
3:IF:192:LEU:O	3:IF:196:THR:HG22	2.16	0.46
2:IG:85:GLN:O	3:JF:281:TYR:OH	2.34	0.46
2:IG:85:GLN:HG2	2:IG:86:LEU:HD12	1.98	0.46
2:II:326:LYS:HA	2:II:329:ASN:HD21	1.80	0.46
13:J2:31:SER:HA	13:J2:139:ARG:HH22	1.80	0.46
2:JE:36:MET:HG2	2:JE:61:HIS:HE1	1.79	0.46
2:JE:252:LEU:HD12	2:JE:253:THR:N	2.31	0.46
3:JH:11:GLN:HG3	25:JH:501:GTP:PA	2.55	0.46
3:JH:167:PHE:HD2	3:JH:200:TYR:CD2	2.34	0.46
14:K2:383:LEU:HD23	14:K2:385:ARG:H	1.81	0.46
14:K2:383:LEU:HD12	2:KE:161:TYR:CE1	2.51	0.46
3:KD:28:HIS:ND1	3:KD:43:GLN:HB2	2.31	0.46
2:KE:156:ARG:HA	2:KE:159:VAL:HG22	1.97	0.46
2:KE:352:LYS:HD2	3:KF:177:ASP:O	2.16	0.46
2:KG:220:GLU:O	2:KG:221:ARG:NE	2.39	0.46
2:KI:166:LYS:O	2:KI:199:ASP:HB2	2.16	0.46
2:KI:297:GLU:O	2:KI:301:GLN:NE2	2.45	0.46
15:L2:208:HIS:O	15:L2:211:PHE:HB3	2.15	0.46
15:L3:52:ALA:HB2	3:MH:306:ARG:CZ	2.46	0.46
15:L3:142:PHE:N	15:L3:143:PRO:HD3	2.31	0.46
3:LD:12:CYS:HA	25:LD:501:GTP:N2	2.29	0.46
3:LD:139:LEU:N	3:LD:168:SER:OG	2.48	0.46
2:LG:22:GLU:HG2	2:LG:83:TYR:HE2	1.81	0.46
2:LG:51:THR:HG23	2:LG:52:PHE:CD2	2.50	0.46
2:LG:214:ARG:NH1	2:LG:215:ARG:HG3	2.30	0.46
2:LG:345:ASP:OD1	2:LG:345:ASP:N	2.46	0.46
2:ME:76:ASP:OD1	2:ME:77:GLU:N	2.48	0.46
2:ME:171:ILE:HD12	2:ME:204:VAL:HG23	1.96	0.46
2:MG:36:MET:SD	2:MG:37:PRO:HD2	2.56	0.46
2:MG:265:ILE:HD12	2:MG:432:TYR:CE1	2.51	0.46
2:MI:35:GLN:HG2	2:MI:59:GLY:O	2.15	0.46
2:MI:208:ALA:H	2:MI:304:LYS:HZ1	1.64	0.46
2:MI:254:GLU:N	2:MI:254:GLU:OE1	2.49	0.46
2:NE:138:PHE:HE1	2:NE:169:PHE:CD2	2.34	0.46
3:NF:304:ASP:O	3:NF:307:HIS:ND1	2.38	0.46
3:NF:401:GLU:OE1	3:NF:403:MET:HE2	2.16	0.46
2:NG:172:TYR:N	2:NG:204:VAL:O	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:429:GLU:HA	2:NG:432:TYR:CD2	2.50	0.46
18:O2:45:ASP:N	18:O2:45:ASP:OD1	2.48	0.46
18:O2:80:THR:HG22	18:O2:114:SER:HB3	1.98	0.46
3:OD:375:GLN:HA	3:OD:378:PHE:CE1	2.50	0.46
3:OF:41:ASP:N	24:YK:20:GLN:HG2	2.31	0.46
3:OF:331:LEU:HD21	2:OG:177:VAL:HG22	1.98	0.46
3:OH:114:ASP:OD1	3:OH:114:ASP:N	2.48	0.46
2:OI:98:ASP:CG	2:OI:100:ALA:H	2.19	0.46
19:P1:22:PHE:CE1	19:P1:30:LEU:HD21	2.51	0.46
2:PE:324:VAL:HG11	3:PF:219:THR:HG22	1.96	0.46
2:PG:175:PRO:HA	2:PG:390:ARG:CZ	2.46	0.46
2:PI:13:GLY:O	2:PI:16:ILE:HG12	2.16	0.46
2:PI:30:ILE:HA	2:PI:36:MET:CE	2.46	0.46
20:Q2:1475:ARG:NH2	20:Q2:1490:PHE:HB3	2.31	0.46
2:QE:233:GLN:NE2	2:QE:234:ILE:HD13	2.29	0.46
2:QE:320:ARG:HA	2:QE:356:ASN:HB3	1.97	0.46
2:QG:34:GLY:HA2	2:QG:86:LEU:CD2	2.46	0.46
2:QG:141:PHE:HB2	2:QG:173:PRO:HD3	1.97	0.46
3:QH:371:SER:OG	3:QH:372:THR:N	2.49	0.46
2:RE:417:GLU:HA	2:RE:420:GLU:HG3	1.97	0.46
3:RF:217:LEU:HD11	3:RF:220:PRO:HB3	1.98	0.46
3:RF:240:LEU:HD21	3:RF:249:ASP:HA	1.98	0.46
3:RF:323:MET:O	3:RF:326:VAL:HG12	2.16	0.46
2:RG:8:HIS:CE1	2:RG:65:ALA:HB1	2.47	0.46
2:RG:285:GLN:NE2	2:RG:286:LEU:O	2.48	0.46
3:RH:204:ASN:HA	3:RH:207:LEU:HD12	1.97	0.46
3:RH:313:VAL:HG12	3:RH:367:PHE:HZ	1.80	0.46
3:RH:318:ARG:HD3	3:RH:358:PRO:HG3	1.98	0.46
2:RI:240:ALA:HA	2:RI:243:ARG:HB2	1.98	0.46
2:SE:75:VAL:HG23	2:SE:92:LEU:HD12	1.96	0.46
2:SG:415:GLU:N	2:SG:415:GLU:OE1	2.48	0.46
3:SH:120:VAL:HA	3:SH:123:GLU:OE2	2.15	0.46
2:SI:35:GLN:HG2	2:SI:59:GLY:O	2.16	0.46
2:SI:166:LYS:HB2	2:SI:199:ASP:CG	2.37	0.46
3:SJ:415:MET:O	3:SJ:419:VAL:HG23	2.15	0.46
2:TG:35:GLN:HG2	2:TG:59:GLY:O	2.15	0.46
2:TG:216:ASN:OD1	2:TG:217:LEU:N	2.49	0.46
2:TG:265:ILE:HB	2:TG:432:TYR:HE1	1.81	0.46
3:TH:189:VAL:HA	3:TH:192:LEU:HB2	1.97	0.46
2:TI:75:VAL:HG11	2:TI:94:THR:HB	1.98	0.46
2:TI:414:GLU:OE1	2:TI:414:GLU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:7:LEU:O	3:TJ:135:LEU:HA	2.16	0.46
3:TJ:8:GLN:NE2	3:TJ:14:ASN:O	2.49	0.46
3:UD:31:ASP:OD1	3:UD:35:THR:N	2.48	0.46
3:UD:322:SER:HB3	3:UD:325:GLU:CD	2.36	0.46
25:UD:501:GTP:O3G	25:UD:501:GTP:O3'	2.22	0.46
2:UE:31:GLN:HE22	2:UE:37:PRO:HD3	1.81	0.46
2:UE:213:CYS:O	2:UE:218:ASP:N	2.49	0.46
2:UE:392:ASP:OD1	2:UE:393:HIS:N	2.49	0.46
2:UG:201:ALA:O	2:UG:268:PRO:HD2	2.15	0.46
3:VD:247:ASN:HB3	3:VD:252:LYS:HG2	1.98	0.46
2:VE:1:MET:SD	2:VE:130:THR:OG1	2.74	0.46
2:VE:21:TRP:HA	2:VE:24:TYR:CD2	2.50	0.46
2:VG:68:VAL:HG12	2:VG:93:ILE:HB	1.98	0.46
2:VG:285:GLN:NE2	2:VG:286:LEU:O	2.48	0.46
3:VH:148:GLY:HA2	3:VH:151:LEU:HG	1.97	0.46
3:VH:192:LEU:O	3:VH:196:THR:HG22	2.16	0.46
3:VH:238:THR:HB	3:VH:242:PHE:CD2	2.51	0.46
2:WE:88:HIS:HD2	2:WE:91:GLN:N	2.10	0.46
2:WE:262:TYR:CE1	3:WF:393:ALA:HA	2.49	0.46
2:WE:320:ARG:HH21	2:WE:358:GLN:HE21	1.63	0.46
2:WG:290:GLU:HA	2:WG:293:ASN:ND2	2.30	0.46
3:WH:249:ASP:O	3:WH:252:LYS:HB3	2.16	0.46
2:WI:174:ALA:HB3	2:WI:177:VAL:O	2.16	0.46
2:WI:390:ARG:HA	2:WI:393:HIS:NE2	2.31	0.46
2:WI:397:LEU:HD12	2:WI:398:MET:N	2.31	0.46
23:XJ:88:ASP:OD1	23:XJ:91:HIS:N	2.49	0.46
23:XK:229:LYS:HD2	23:XK:229:LYS:N	2.31	0.46
23:XL:178:LEU:HB3	23:XL:231:MET:HG3	1.97	0.46
24:YN:2:ASN:O	24:YN:5:LYS:HG2	2.16	0.46
1:A3:69:GLU:HB2	4:B2:270:ARG:HH21	1.79	0.46
1:A3:96:THR:O	1:A3:100:ARG:HG2	2.15	0.46
2:AE:47:ASP:HB3	2:AE:49:PHE:CE2	2.51	0.46
2:AE:428:LEU:HA	2:AE:431:ASP:OD2	2.16	0.46
2:AG:1:MET:N	2:AG:130:THR:OG1	2.48	0.46
2:AG:33:ASP:OD1	2:AG:34:GLY:N	2.49	0.46
2:AG:102:ASN:ND2	2:AG:105:ARG:HG3	2.30	0.46
2:AG:252:LEU:HA	2:AG:255:PHE:CD2	2.44	0.46
3:AH:2:ARG:HB3	3:AH:131:GLN:CD	2.36	0.46
3:AH:371:SER:OG	3:AH:372:THR:N	2.49	0.46
4:B3:134:GLU:O	4:B3:138:LEU:HG	2.15	0.46
4:B8:258:ARG:O	4:B8:261:THR:OG1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:178:THR:HG22	3:BF:180:VAL:HG12	1.98	0.46
3:BF:361:LEU:HD11	3:BF:364:SER:HB3	1.98	0.46
2:BI:102:ASN:ND2	2:BI:105:ARG:HG3	2.31	0.46
5:C2:274:LEU:CD1	5:C3:399:ARG:HG2	2.46	0.46
5:C3:130:ASP:OD1	5:C3:131:LYS:N	2.49	0.46
5:C3:179:ARG:O	5:C3:183:ARG:HG2	2.15	0.46
5:C3:281:VAL:HB	5:C4:394:LYS:HG3	1.97	0.46
5:C4:381:SER:HA	5:C4:384:LYS:HZ3	1.79	0.46
3:CF:245:GLN:CD	2:CG:15:GLN:HE21	2.18	0.46
3:CF:325:GLU:O	3:CF:329:GLN:HG2	2.16	0.46
3:CF:345:ILE:HD12	3:CF:346:PRO:HD2	1.97	0.46
3:CJ:19:LYS:O	3:CJ:22:GLU:HG3	2.15	0.46
3:CJ:106:TYR:HB2	3:CJ:401:GLU:OE2	2.16	0.46
3:CJ:210:ILE:HD11	3:CJ:297:LYS:O	2.15	0.46
6:D2:76:ARG:O	6:D2:80:GLU:OE1	2.34	0.46
6:D3:184:ARG:NH1	6:D3:188:GLU:HB3	2.31	0.46
6:D7:348:ALA:O	6:D7:351:ARG:HB3	2.16	0.46
6:D8:116:GLU:HB2	6:D8:119:ARG:HH21	1.81	0.46
6:D8:147:VAL:O	6:D8:151:ILE:HG13	2.16	0.46
2:DE:265:ILE:HD12	2:DE:432:TYR:CE1	2.51	0.46
2:DE:319:TYR:HE2	2:DE:328:VAL:HG13	1.80	0.46
3:DF:246:LEU:HD22	3:DF:353:VAL:O	2.15	0.46
2:DG:79:ARG:HH22	11:H4:285:TYR:HB2	1.81	0.46
2:DG:102:ASN:HD22	2:DG:105:ARG:HG3	1.80	0.46
2:DG:189:LEU:HD11	2:DG:418:PHE:CE1	2.50	0.46
3:DH:21:TRP:CZ2	3:DH:63:ALA:HB2	2.51	0.46
2:EE:346:TRP:CH2	3:EF:391:ARG:HB2	2.51	0.46
2:EE:370:LYS:H	2:EE:370:LYS:HG2	1.58	0.46
3:EH:36:TYR:OH	3:EH:39:ASP:OD1	2.30	0.46
3:EH:170:VAL:HG11	3:EH:377:LEU:HD23	1.98	0.46
3:EH:176:SER:O	3:EH:178:THR:N	2.48	0.46
3:EH:211:CYS:SG	3:EH:220:PRO:HG3	2.56	0.46
8:F2:160:LEU:HD21	8:F2:250:LEU:HB3	1.98	0.46
8:F2:404:ASN:O	8:F2:406:GLU:N	2.49	0.46
8:F6:175:ARG:NH1	8:F6:178:GLU:OE2	2.48	0.46
3:FD:133:PHE:CE1	3:FD:164:MET:HG2	2.50	0.46
3:FF:109:GLY:O	3:FF:113:VAL:HG22	2.16	0.46
2:FG:257:THR:HA	3:FH:397:TRP:CZ2	2.50	0.46
10:G5:626:LYS:HB2	10:G5:626:LYS:HE2	1.77	0.46
10:G5:734:ARG:HG3	10:G5:735:TYR:N	2.30	0.46
3:GD:318:ARG:HG2	3:GD:358:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:229:ARG:HD2	2:GE:363:VAL:HG11	1.97	0.46
2:GE:401:LYS:C	2:GE:402:ARG:HD3	2.35	0.46
3:GF:21:TRP:HZ2	3:GF:63:ALA:HB2	1.80	0.46
2:GG:42:ILE:HG21	2:GG:59:GLY:HA2	1.96	0.46
3:GH:200:TYR:CD2	3:GH:268:PRO:HG3	2.51	0.46
2:GI:91:GLN:HB2	2:GI:121:ARG:NH2	2.31	0.46
3:HD:405:GLU:HA	3:HD:408:PHE:HD2	1.81	0.46
3:HF:302:ALA:CB	3:HF:377:LEU:HD11	2.45	0.46
3:HF:318:ARG:NH1	3:HF:358:PRO:HG3	2.31	0.46
2:HG:30:ILE:HA	2:HG:36:MET:HE3	1.98	0.46
2:HG:338:LYS:HZ2	2:HG:340:THR:H	1.62	0.46
3:IF:117:LEU:HA	3:IF:120:VAL:HG12	1.98	0.46
2:IG:398:MET:CE	2:IG:401:LYS:HD2	2.46	0.46
3:IH:36:TYR:OH	3:IH:44:LEU:HB2	2.16	0.46
2:II:331:ALA:O	2:II:335:ILE:HG12	2.15	0.46
3:JD:3:GLU:N	3:JD:3:GLU:OE1	2.49	0.46
2:JE:185:TYR:O	2:JE:189:LEU:HG	2.16	0.46
3:JF:28:HIS:CG	3:JF:47:ILE:HD13	2.50	0.46
3:JF:40:SER:HB2	3:JF:43:GLN:CD	2.37	0.46
3:JF:331:LEU:HD21	2:JG:177:VAL:HG22	1.98	0.46
2:JG:121:ARG:O	2:JG:124:LYS:HG2	2.16	0.46
14:K4:264:TRP:C	14:K4:266:ASP:H	2.19	0.46
3:KD:31:ASP:OD1	3:KD:35:THR:N	2.49	0.46
2:KE:166:LYS:HB3	2:KE:168:GLU:OE2	2.16	0.46
3:KF:282:ARG:NH2	3:KF:288:GLU:OE1	2.47	0.46
2:KG:22:GLU:HG2	2:KG:83:TYR:CE2	2.51	0.46
3:KH:319:GLY:HA2	3:KH:357:PRO:HG3	1.97	0.46
2:KI:116:ASP:N	2:KI:116:ASP:OD1	2.47	0.46
15:L3:193:ARG:O	15:L3:197:LEU:HG	2.16	0.46
3:LD:245:GLN:NE2	2:LE:15:GLN:HE22	2.03	0.46
2:LE:95:GLY:C	2:LE:96:LYS:HD2	2.37	0.46
2:LI:171:ILE:HG21	25:LI:501:GTP:N3	2.30	0.46
2:ME:326:LYS:HD2	3:MF:208:TYR:CD1	2.50	0.46
3:MF:209:ASP:O	3:MF:213:ARG:HG2	2.15	0.46
2:MG:47:ASP:HB3	2:MG:49:PHE:CE2	2.51	0.46
2:MG:337:THR:OG1	18:O2:19:LEU:HD12	2.15	0.46
2:MG:339:ARG:CD	18:O2:25:ALA:HA	2.45	0.46
2:MG:390:ARG:O	2:MG:393:HIS:ND1	2.49	0.46
2:MI:13:GLY:O	2:MI:16:ILE:HG12	2.14	0.46
3:ND:86:ARG:NE	3:ND:86:ARG:HA	2.31	0.46
3:ND:101:TRP:HE1	3:ND:188:SER:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:286:VAL:HG21	3:ND:325:GLU:HG3	1.97	0.46
2:NE:244:PHE:HB2	2:NE:356:ASN:HD21	1.80	0.46
3:NF:260:PHE:HB3	3:NF:262:ARG:NH2	2.30	0.46
3:NF:378:PHE:O	3:NF:381:ILE:HG22	2.15	0.46
2:NI:105:ARG:O	2:NI:109:THR:N	2.47	0.46
18:O2:19:LEU:O	18:O2:19:LEU:HD23	2.15	0.46
3:OD:2:ARG:NE	2:OE:96:LYS:O	2.48	0.46
2:OE:3:GLU:N	2:OE:133:GLN:OE1	2.49	0.46
2:OE:422:ARG:O	2:OE:425:LEU:HG	2.15	0.46
3:OF:134:GLN:HA	3:OF:165:ASN:O	2.15	0.46
2:OG:201:ALA:N	2:OG:266:HIS:HD2	2.14	0.46
3:OH:113:VAL:HA	3:OH:116:VAL:HG22	1.97	0.46
3:OH:183:TYR:O	3:OH:186:THR:OG1	2.31	0.46
19:P2:278:SER:C	19:P2:280:SER:N	2.69	0.46
19:P2:439:GLY:O	19:P2:460:HIS:HB2	2.15	0.46
2:PE:331:ALA:O	2:PE:334:THR:OG1	2.29	0.46
2:PE:368:LEU:H	2:PE:368:LEU:HD23	1.80	0.46
3:PF:288:GLU:OE1	3:PF:292:GLN:NE2	2.49	0.46
2:PG:105:ARG:HG2	2:PG:109:THR:HG21	1.98	0.46
2:PG:276:ILE:HG22	2:PG:277:SER:O	2.15	0.46
3:PH:169:VAL:HA	3:PH:202:ILE:HB	1.98	0.46
20:Q2:1372:LEU:HG	20:Q2:1374:ILE:H	1.81	0.46
20:Q2:1425:LYS:NZ	20:Q2:1509:ASP:O	2.33	0.46
2:QE:323:VAL:HG12	2:QE:324:VAL:N	2.31	0.46
2:QG:263:PRO:O	2:QG:264:ARG:HB2	2.16	0.46
2:QI:89:PRO:HD2	2:RI:280:LYS:HZ3	1.81	0.46
2:QI:154:MET:HA	2:QI:157:LEU:HG	1.98	0.46
2:RE:116:ASP:N	2:RE:116:ASP:OD1	2.49	0.46
2:RE:196:GLU:OE1	2:RE:196:GLU:N	2.33	0.46
2:RE:224:TYR:CE1	25:RE:501:GTP:C5	3.01	0.46
2:RG:354:GLY:O	2:RG:355:ILE:HD13	2.15	0.46
2:RG:408:TYR:CD2	2:RG:418:PHE:HZ	2.34	0.46
3:RH:173:PRO:HA	3:RH:380:ARG:CZ	2.46	0.46
3:RJ:267:MET:O	3:RJ:368:ILE:HD12	2.16	0.46
2:SE:206:ASN:HA	2:SE:209:ILE:HD12	1.98	0.46
2:SG:371:VAL:HG11	2:SG:374:ALA:HB2	1.97	0.46
3:SJ:239:CYS:HA	3:SJ:246:LEU:HD11	1.97	0.46
3:TF:375:GLN:OE1	3:TF:375:GLN:N	2.39	0.46
2:TG:9:VAL:HG22	2:TG:146:GLY:HA2	1.97	0.46
3:TH:224:ASP:O	3:TH:227:HIS:HB3	2.16	0.46
2:TI:107:HIS:CD2	2:TI:152:LEU:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:254:GLU:OE1	2:TI:254:GLU:N	2.49	0.46
3:TJ:234:SER:O	3:TJ:238:THR:HG23	2.16	0.46
3:UH:11:GLN:HG3	25:UH:501:GTP:PA	2.56	0.46
3:UH:151:LEU:HD22	3:UH:154:LYS:HZ1	1.81	0.46
3:UH:235:GLY:O	3:UH:238:THR:OG1	2.25	0.46
2:VG:263:PRO:HB2	2:VG:264:ARG:NH1	2.30	0.46
3:VH:12:CYS:O	3:VH:16:ILE:HG23	2.16	0.46
3:VH:169:VAL:HG23	3:VH:202:ILE:HB	1.98	0.46
3:VH:267:MET:SD	3:VH:374:ILE:HD11	2.55	0.46
2:WE:212:ILE:HG13	2:WE:215:ARG:NH2	2.31	0.46
3:WF:260:PHE:HB2	3:WF:263:LEU:HD23	1.96	0.46
3:WF:286:VAL:HG21	3:WF:325:GLU:HG3	1.97	0.46
2:WG:49:PHE:HB2	2:WG:53:PHE:HB2	1.98	0.46
2:WI:24:TYR:HA	2:WI:27:GLU:CD	2.36	0.46
22:XD:170:ARG:NH2	22:XD:176:GLU:OE2	2.48	0.46
23:XK:182:ASN:O	23:XK:185:LYS:HG3	2.16	0.46
24:YJ:59:ASN:O	24:YJ:61:THR:N	2.49	0.46
24:YL:162:VAL:HA	24:YL:165:HIS:CE1	2.51	0.46
1:A3:241:LEU:HD21	12:I3:48:TYR:CD2	2.50	0.46
3:AF:150:LEU:C	3:AF:154:LYS:HZ3	2.18	0.46
3:AF:205:GLU:HA	3:AF:208:TYR:CD2	2.51	0.46
2:AG:229:ARG:HH12	2:AG:366:GLY:HA2	1.81	0.46
2:AI:205:ASP:H	2:AI:302:MET:CE	2.29	0.46
2:AI:311:LYS:NZ	2:AI:342:GLN:HB3	2.31	0.46
2:AI:392:ASP:HB2	2:AI:422:ARG:NH2	2.31	0.46
2:BE:10:GLY:O	2:BE:14:VAL:HG13	2.15	0.46
2:BE:74:VAL:O	2:BE:78:VAL:HG13	2.16	0.46
2:BE:147:SER:HB2	2:BE:190:THR:HG21	1.97	0.46
3:BF:395:LEU:HD23	3:BF:399:THR:HG23	1.98	0.46
2:BG:264:ARG:O	2:BG:266:HIS:ND1	2.49	0.46
2:BG:438:ASP:N	2:BG:438:ASP:OD1	2.47	0.46
3:BH:42:LEU:HD22	11:H4:6:LYS:HD2	1.97	0.46
5:C8:155:PHE:O	5:C8:159:GLU:OE1	2.34	0.46
3:CF:6:HIS:CE1	3:CF:8:GLN:HB3	2.47	0.46
2:CG:276:ILE:HG13	2:CG:280:LYS:HB2	1.98	0.46
2:CG:388:TRP:HB3	2:CG:425:LEU:HD11	1.98	0.46
3:CH:380:ARG:HA	3:CH:383:GLU:OE1	2.16	0.46
6:D3:88:THR:HB	6:D4:346:LYS:HE2	1.98	0.46
6:D3:241:TYR:HB2	6:D4:354:GLN:HE22	1.81	0.46
6:D8:276:VAL:HG12	6:D8:280:LYS:NZ	2.31	0.46
6:D8:377:LEU:O	6:D8:381:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D8:388:LEU:O	6:D8:392:LYS:HG3	2.15	0.46
3:DD:184:ASN:ND2	3:DD:398:TYR:OH	2.49	0.46
3:DD:211:CYS:HA	3:DD:215:LEU:HB2	1.97	0.46
2:DE:338:LYS:NZ	2:DE:340:THR:HG23	2.31	0.46
2:DE:397:LEU:HB2	2:DE:398:MET:CE	2.46	0.46
3:DF:182:PRO:HB2	3:DF:388:MET:CE	2.46	0.46
3:ED:3:GLU:HB2	3:ED:62:ARG:NH2	2.31	0.46
3:ED:423:GLN:O	3:ED:427:ASP:HB2	2.15	0.46
2:EE:3:GLU:OE2	2:EE:131:GLY:N	2.45	0.46
3:EF:226:ASN:HA	3:EF:229:VAL:HG22	1.98	0.46
2:EG:260:VAL:HG22	2:EG:262:TYR:O	2.15	0.46
2:EG:287:SER:N	2:EG:290:GLU:OE2	2.49	0.46
3:EH:173:PRO:HA	3:EH:380:ARG:CZ	2.46	0.46
2:FE:34:GLY:HA3	2:FE:86:LEU:HD11	1.97	0.46
2:FG:101:ASN:O	2:FG:182:VAL:HG21	2.16	0.46
2:FG:260:VAL:HG23	2:FG:265:ILE:O	2.16	0.46
3:FH:1:MET:O	3:FH:129:CYS:HB2	2.16	0.46
3:FH:16:ILE:HD12	3:FH:229:VAL:HG21	1.97	0.46
3:FH:156:ARG:HD3	3:FH:164:MET:HE1	1.98	0.46
9:G1:217:LYS:HG3	9:G1:218:GLU:N	2.31	0.46
3:GD:406:MET:SD	3:GD:407:GLU:N	2.89	0.46
2:GE:207:GLU:HB2	2:GE:304:LYS:HE2	1.98	0.46
3:GF:41:ASP:OD1	3:GF:42:LEU:N	2.49	0.46
2:GG:172:TYR:OH	2:GG:387:ALA:HB1	2.16	0.46
2:GG:327:ASP:OD1	2:GG:328:VAL:N	2.49	0.46
11:H4:279:GLN:HE21	11:H4:305:ARG:HD3	1.80	0.46
2:HE:354:GLY:O	2:HE:355:ILE:HD13	2.16	0.46
3:HF:222:TYR:CD1	3:HF:225:LEU:HD22	2.51	0.46
3:HH:270:PHE:CG	3:HH:271:ALA:N	2.83	0.46
2:IE:102:ASN:ND2	2:IE:105:ARG:HB2	2.31	0.46
2:IE:414:GLU:N	2:IE:414:GLU:OE1	2.49	0.46
3:IF:39:ASP:N	3:IF:39:ASP:OD1	2.47	0.46
3:IF:378:PHE:HA	3:IF:381:ILE:HG12	1.97	0.46
3:IH:32:PRO:O	3:IH:84:ILE:HD11	2.16	0.46
3:IH:204:ASN:HA	3:IH:207:LEU:HB2	1.98	0.46
3:IH:357:PRO:HB3	3:IH:362:LYS:O	2.16	0.46
3:JD:240:LEU:HD22	3:JD:248:ALA:HB1	1.97	0.46
2:JE:212:ILE:HG13	2:JE:215:ARG:NH2	2.31	0.46
14:K3:202:GLU:HA	14:K3:205:GLU:OE1	2.16	0.46
14:K3:369:GLN:O	14:K3:373:VAL:HG23	2.15	0.46
2:KE:166:LYS:O	2:KE:199:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:326:LYS:HD2	3:KF:208:TYR:CD2	2.51	0.46
2:KG:65:ALA:O	2:KG:91:GLN:NE2	2.49	0.46
2:KI:45:GLY:HA2	2:KI:49:PHE:HE1	1.81	0.46
15:L2:42:PHE:O	15:L2:43:LYS:HE2	2.15	0.46
3:LD:405:GLU:O	3:LD:409:THR:HG23	2.16	0.46
2:LE:311:LYS:HE3	2:LE:344:VAL:HG12	1.96	0.46
3:LF:258:VAL:HB	2:LG:407:TRP:CH2	2.51	0.46
3:LF:375:GLN:HA	3:LF:378:PHE:CE1	2.50	0.46
3:LH:376:GLU:HG2	3:LH:377:LEU:HD12	1.96	0.46
2:LI:6:SER:HB3	2:LI:65:ALA:HB2	1.97	0.46
2:ME:126:ALA:HA	2:ME:129:CYS:SG	2.55	0.46
2:ME:280:LYS:HZ1	2:ME:284:GLU:CD	2.19	0.46
2:ME:392:ASP:O	2:ME:422:ARG:NH2	2.44	0.46
2:MG:101:ASN:OD1	2:MG:144:GLY:HA2	2.16	0.46
2:NE:264:ARG:O	2:NE:266:HIS:ND1	2.49	0.46
3:NF:68:LEU:HD23	3:NF:93:GLY:HA3	1.97	0.46
2:NG:70:LEU:HA	2:NG:95:GLY:HA3	1.97	0.46
3:NH:15:GLN:HG2	3:NH:222:TYR:CD1	2.51	0.46
2:NI:186:ASN:OD1	2:NI:187:SER:N	2.49	0.46
2:NI:287:SER:N	2:NI:290:GLU:OE2	2.49	0.46
18:O1:75:PRO:HB2	18:O1:76:PRO:HD3	1.96	0.46
3:OD:6:HIS:CD2	3:OD:134:GLN:HG2	2.51	0.46
3:OD:324:LYS:HE2	2:OE:222:PRO:CD	2.42	0.46
2:OI:208:ALA:H	2:OI:304:LYS:NZ	2.12	0.46
19:P1:372:VAL:HG21	19:P1:393:TRP:CH2	2.51	0.46
19:P1:566:ASP:O	19:P1:568:LEU:HG	2.16	0.46
19:P2:24:GLY:O	19:P2:310:GLU:HA	2.16	0.46
19:P2:257:ARG:HB3	19:P2:265:LEU:HB2	1.98	0.46
19:P2:381:ASP:OD1	19:P2:390:ILE:HB	2.15	0.46
2:PE:268:PRO:HG3	2:PE:380:ASN:HD22	1.81	0.46
2:PG:101:ASN:CG	2:PG:144:GLY:HA2	2.36	0.46
3:PH:309:ARG:NH1	3:PH:342:VAL:HA	2.31	0.46
2:PI:12:ALA:HB1	25:PI:501:GTP:N3	2.31	0.46
2:PI:215:ARG:HH12	2:PI:299:ALA:C	2.18	0.46
20:Q2:1358:ILE:H	20:Q2:1393:LYS:HB3	1.80	0.46
20:Q2:1366:LEU:HA	20:Q2:1369:LYS:NZ	2.31	0.46
20:Q2:1456:ARG:HA	20:Q2:1459:LYS:HZ3	1.81	0.46
2:QG:137:ILE:HG22	2:QG:139:HIS:ND1	2.31	0.46
3:QH:234:SER:O	3:QH:238:THR:HG23	2.16	0.46
3:QH:378:PHE:CD1	3:QH:419:VAL:HG22	2.51	0.46
2:QI:140:SER:HA	2:QI:170:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:R2:148:ARG:HD3	21:R2:148:ARG:H	1.80	0.46
3:RF:34:GLY:HA3	3:RF:58:LYS:HZ2	1.81	0.46
3:RF:156:ARG:NH1	3:RF:195:ASN:O	2.47	0.46
3:RH:158:GLU:OE1	3:RH:158:GLU:N	2.47	0.46
3:RH:180:VAL:HG13	3:RH:183:TYR:HD2	1.80	0.46
3:RH:280:GLN:OE1	3:RH:280:GLN:N	2.41	0.46
2:RI:12:ALA:O	25:RI:501:GTP:N1	2.49	0.46
2:RI:319:TYR:CE1	2:RI:375:VAL:HB	2.51	0.46
3:SF:12:CYS:CB	25:SF:501:GTP:H5'	2.46	0.46
3:SF:311:LEU:HD23	3:SF:342:VAL:HG11	1.98	0.46
2:SG:330:ALA:O	2:SG:334:THR:HG23	2.15	0.46
3:SH:51:TYR:CE1	3:SH:61:PRO:HA	2.51	0.46
3:SH:175:VAL:HG22	3:SH:177:ASP:H	1.79	0.46
3:TF:52:ASN:CG	3:TF:62:ARG:HD3	2.36	0.46
2:TG:248:LEU:HD23	2:TG:355:ILE:H	1.81	0.46
2:TG:320:ARG:NH2	2:TG:360:PRO:HA	2.30	0.46
2:TI:141:PHE:CZ	2:TI:170:ALA:HB3	2.51	0.46
2:TI:324:VAL:HB	2:TI:326:LYS:HE2	1.98	0.46
3:UD:246:LEU:HD12	3:UD:352:ALA:HB1	1.98	0.46
3:UD:344:TRP:CE2	2:UE:401:LYS:HD2	2.51	0.46
3:UF:30:ILE:HG23	3:UF:36:TYR:HA	1.97	0.46
3:UH:270:PHE:CG	3:UH:271:ALA:N	2.84	0.46
3:UH:388:MET:HE2	3:UH:388:MET:HB2	1.56	0.46
3:VD:357:PRO:HB3	3:VD:362:LYS:O	2.16	0.46
2:VE:3:GLU:CD	2:VE:132:LEU:H	2.19	0.46
3:VF:81:PHE:O	3:VF:84:ILE:HG22	2.16	0.46
3:VF:114:ASP:N	3:VF:114:ASP:OD1	2.49	0.46
3:VF:371:SER:OG	3:VF:372:THR:N	2.48	0.46
2:VG:320:ARG:CZ	2:VG:360:PRO:HA	2.46	0.46
3:VH:228:LEU:O	3:VH:232:THR:HG23	2.16	0.46
2:WE:35:GLN:HG2	2:WE:59:GLY:O	2.16	0.46
2:WE:88:HIS:CD2	2:WE:121:ARG:HH22	2.33	0.46
3:WF:28:HIS:O	3:WF:43:GLN:NE2	2.49	0.46
3:WF:258:VAL:HB	2:WG:407:TRP:CZ2	2.48	0.46
2:WG:285:GLN:NE2	2:WG:286:LEU:O	2.49	0.46
2:WI:28:HIS:CD2	2:WI:48:SER:HG	2.32	0.46
2:WI:252:LEU:HD12	2:WI:253:THR:N	2.30	0.46
22:XD:102:ARG:O	22:XD:118:ILE:HA	2.15	0.46
23:XJ:130:ILE:HG13	23:XJ:131:PRO:HD3	1.97	0.46
23:XK:133:LEU:O	23:XK:136:PRO:HD2	2.16	0.46
24:YI:131:ARG:N	24:YI:131:ARG:HD2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YK:152:ILE:HD12	24:YK:155:SER:HB2	1.98	0.46
24:YL:121:VAL:HG21	24:YL:138:VAL:HB	1.98	0.46
1:A3:182:ILE:HA	1:A3:185:ASP:OD2	2.16	0.46
2:AE:102:ASN:ND2	2:AE:105:ARG:HB2	2.31	0.46
2:AG:103:TYR:CD2	2:AG:189:LEU:HD13	2.51	0.46
2:AI:166:LYS:O	2:AI:199:ASP:HB2	2.16	0.46
4:B8:123:ARG:NH1	4:B8:383:THR:HA	2.31	0.46
2:BE:9:VAL:HG23	2:BE:68:VAL:HG23	1.98	0.46
2:BE:438:ASP:C	3:BF:391:ARG:HH22	2.19	0.46
3:BH:69:GLU:OE1	3:BH:72:THR:HG23	2.16	0.46
5:C7:281:VAL:HG12	5:C8:398:THR:HG21	1.97	0.46
3:CF:12:CYS:HA	25:CF:501:GTP:N2	2.31	0.46
2:CG:31:GLN:HB2	2:CG:35:GLN:O	2.16	0.46
2:CG:287:SER:N	2:CG:290:GLU:OE2	2.49	0.46
3:CH:246:LEU:HB2	3:CH:352:ALA:HB1	1.98	0.46
2:CI:212:ILE:HB	2:CI:215:ARG:HH21	1.79	0.46
3:CJ:109:GLY:O	3:CJ:113:VAL:HG13	2.15	0.46
3:CJ:148:GLY:O	3:CJ:152:ILE:HG12	2.16	0.46
3:CJ:334:GLN:O	3:CJ:338:SER:OG	2.19	0.46
6:D3:263:ASP:O	6:D3:267:ARG:HG2	2.16	0.46
3:DF:207:LEU:HD21	3:DF:225:LEU:HD22	1.98	0.46
3:DH:385:PHE:HA	3:DH:388:MET:CE	2.46	0.46
2:EG:174:ALA:HB1	2:EG:207:GLU:OE2	2.16	0.46
2:EG:251:ASP:HB3	2:EG:254:GLU:OE1	2.16	0.46
8:F2:377:LEU:HD23	8:F2:380:ARG:HD2	1.97	0.46
8:F6:209:ASP:CG	8:F6:210:ASN:H	2.19	0.46
8:F7:385:LYS:NZ	8:F7:388:PRO:HG2	2.30	0.46
2:FE:188:ILE:HG12	2:FE:425:LEU:HD11	1.96	0.46
9:G1:153:ARG:HD3	9:G1:162:HIS:CG	2.51	0.46
9:G2:33:TYR:HA	9:G2:38:ALA:HA	1.98	0.46
9:G2:117:ILE:O	9:G2:118:ARG:NH1	2.37	0.46
10:G5:95:GLU:HB3	10:G5:196:TYR:HB2	1.98	0.46
3:GD:8:GLN:CD	3:GD:65:LEU:HD13	2.36	0.46
3:GD:20:PHE:CE1	3:GD:24:ILE:HD11	2.51	0.46
3:GD:423:GLN:O	3:GD:427:ASP:HB2	2.16	0.46
3:GF:162:ARG:HD3	3:GF:162:ARG:HA	1.84	0.46
2:GG:107:HIS:CD2	2:GG:152:LEU:HB3	2.51	0.46
3:GH:217:LEU:HD12	3:GH:219:THR:H	1.81	0.46
11:H4:215:ARG:NH1	11:H4:216:LYS:HB3	2.31	0.46
3:HD:34:GLY:HA3	3:HD:58:LYS:HG3	1.96	0.46
3:HF:397:TRP:O	3:HF:400:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:224:TYR:HB3	2:HI:228:ASN:ND2	2.30	0.46
2:HI:279:GLU:O	2:HI:283:HIS:CE1	2.69	0.46
2:HI:401:LYS:C	2:HI:402:ARG:HD3	2.36	0.46
3:IF:46:ARG:HA	3:IF:46:ARG:HD3	1.71	0.46
3:IF:180:VAL:HG13	3:IF:184:ASN:OD1	2.15	0.46
3:JD:226:ASN:HA	3:JD:229:VAL:HG22	1.98	0.46
3:JF:19:LYS:HZ1	3:JF:227:HIS:HB2	1.81	0.46
3:JF:275:SER:O	3:JF:279:GLN:NE2	2.49	0.46
2:JG:108:TYR:O	2:JG:112:LYS:NZ	2.46	0.46
2:JG:116:ASP:N	2:JG:116:ASP:OD1	2.48	0.46
3:JH:12:CYS:O	3:JH:15:GLN:HB2	2.16	0.46
14:K2:185:ARG:HB2	14:K2:190:LYS:NZ	2.31	0.46
14:K2:401:TYR:O	14:K2:407:THR:HG21	2.16	0.46
2:KE:176:GLN:NE2	2:KE:207:GLU:OE2	2.49	0.46
2:KE:397:LEU:HB2	2:KE:398:MET:HE2	1.97	0.46
3:KF:345:ILE:HD12	3:KF:346:PRO:HD2	1.98	0.46
2:KG:256:GLN:NE2	3:KH:397:TRP:HE1	2.13	0.46
3:KH:100:ASN:HB3	3:KH:103:LYS:HG3	1.98	0.46
15:L3:236:GLN:HA	15:L3:239:HIS:CE1	2.51	0.46
3:LD:180:VAL:HG13	3:LD:183:TYR:HD2	1.81	0.46
2:LE:47:ASP:O	2:LE:49:PHE:N	2.49	0.46
2:LE:272:TYR:CE1	2:LE:274:PRO:HD2	2.50	0.46
3:LF:31:ASP:OD2	3:LF:33:THR:OG1	2.35	0.46
2:ME:260:VAL:HG13	3:MF:397:TRP:HH2	1.81	0.46
3:MH:415:MET:O	3:MH:419:VAL:HG23	2.15	0.46
2:MI:12:ALA:O	25:MI:501:GTP:N1	2.49	0.46
3:ND:151:LEU:HD22	3:ND:154:LYS:HZ1	1.81	0.46
3:ND:350:LYS:HE3	2:NE:181:VAL:H	1.81	0.46
3:NF:385:PHE:HZ	3:NF:408:PHE:HB3	1.81	0.46
2:NG:17:GLY:HA3	2:NG:67:PHE:CZ	2.51	0.46
2:NI:416:GLY:O	2:NI:420:GLU:HG2	2.15	0.46
3:OF:204:ASN:HA	3:OF:207:LEU:HG	1.98	0.46
3:OF:404:ASP:N	3:OF:404:ASP:OD1	2.48	0.46
2:OG:116:ASP:N	2:OG:116:ASP:OD1	2.48	0.46
3:OH:12:CYS:HA	25:OH:501:GTP:N2	2.30	0.46
2:OI:184:PRO:HG2	2:OI:398:MET:HE1	1.98	0.46
2:OI:187:SER:O	2:OI:190:THR:OG1	2.28	0.46
2:OI:187:SER:O	2:OI:191:THR:HG23	2.15	0.46
19:P2:291:GLY:HA3	19:P2:309:THR:HB	1.97	0.46
19:P2:456:ALA:O	19:P2:458:LYS:HG3	2.16	0.46
3:PF:378:PHE:HE1	3:PF:419:VAL:HG13	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:423:GLN:O	3:PH:427:ASP:CB	2.55	0.46
2:PI:331:ALA:O	2:PI:335:ILE:HG12	2.16	0.46
20:Q2:1440:LEU:HB3	20:Q2:1514:PHE:CZ	2.50	0.46
2:QI:310:GLY:HA3	2:QI:383:ALA:HB2	1.97	0.46
2:QI:331:ALA:O	2:QI:334:THR:OG1	2.26	0.46
2:RE:4:CYS:SG	2:RE:134:GLY:N	2.89	0.46
3:RF:6:HIS:HD2	3:RF:134:GLN:HG2	1.81	0.46
3:RF:86:ARG:HA	3:RF:86:ARG:NE	2.30	0.46
2:RG:161:TYR:HB3	2:RG:164:LYS:NZ	2.31	0.46
2:RG:203:MET:N	2:RG:203:MET:SD	2.89	0.46
2:RI:185:TYR:HA	2:RI:395:PHE:HE2	1.80	0.46
2:RI:279:GLU:OE1	2:RI:283:HIS:NE2	2.45	0.46
2:RI:402:ARG:HB2	2:RI:405:VAL:HG11	1.98	0.46
3:RJ:11:GLN:HA	3:RJ:14:ASN:ND2	2.31	0.46
2:SG:9:VAL:HG11	2:SG:150:ALA:HB2	1.98	0.46
2:SG:318:LEU:HB3	2:SG:376:CYS:HB3	1.98	0.46
3:SH:193:VAL:CG1	3:SH:414:ASN:HD21	2.28	0.46
3:SH:219:THR:N	3:SH:220:PRO:HD3	2.31	0.46
3:SH:309:ARG:C	3:SH:371:SER:HG	2.18	0.46
2:SI:395:PHE:HB3	2:SI:422:ARG:NH2	2.31	0.46
3:SJ:313:VAL:O	3:SJ:349:VAL:HA	2.16	0.46
3:TF:11:GLN:HE21	25:TF:501:GTP:H3'	1.81	0.46
2:TG:245:ASP:HA	2:TG:249:ASN:HD21	1.80	0.46
2:TI:362:VAL:HA	2:TI:368:LEU:HD11	1.98	0.46
3:UD:20:PHE:CZ	3:UD:24:ILE:HD11	2.51	0.46
3:UD:324:LYS:HD2	2:UE:221:ARG:HH11	1.81	0.46
2:UE:320:ARG:CZ	2:UE:360:PRO:HA	2.46	0.46
3:UF:139:LEU:HD21	3:UF:170:VAL:HG22	1.98	0.46
2:UG:129:CYS:SG	2:UG:132:LEU:HB3	2.56	0.46
2:UG:288:VAL:HA	2:UG:291:ILE:HG12	1.97	0.46
3:UH:204:ASN:HA	3:UH:207:LEU:HD12	1.97	0.46
2:VG:230:LEU:O	2:VG:233:GLN:HG3	2.15	0.46
3:VH:272:PRO:HA	3:VH:292:GLN:NE2	2.31	0.46
2:WE:55:GLU:HA	2:WE:60:LYS:O	2.16	0.46
2:WE:319:TYR:CD1	2:WE:375:VAL:HB	2.51	0.46
2:WE:392:ASP:OD1	2:WE:393:HIS:N	2.48	0.46
2:WG:388:TRP:CD1	2:WG:425:LEU:HD11	2.51	0.46
2:WI:319:TYR:HB2	2:WI:355:ILE:CD1	2.46	0.46
22:XD:81:LYS:HB2	22:XD:129:TRP:CD2	2.51	0.46
24:YI:88:SER:H	24:YI:166:GLY:HA3	1.81	0.46
24:YJ:59:ASN:HB2	24:YJ:62:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YM:5:LYS:HA	24:YM:8:LEU:HB3	1.97	0.46
24:YN:44:SER:HB3	24:YN:111:SER:OG	2.16	0.46
24:YN:100:CYS:O	24:YN:104:VAL:HG23	2.16	0.46
1:A2:257:CYS:O	1:A2:260:VAL:HG22	2.16	0.45
1:A3:79:ASP:HA	1:A3:82:GLU:OE2	2.16	0.45
2:AE:74:VAL:HA	2:AE:77:GLU:HG3	1.96	0.45
2:AE:280:LYS:HZ2	2:ME:89:PRO:HD2	1.80	0.45
2:AG:63:PRO:O	2:AG:91:GLN:NE2	2.42	0.45
2:AG:282:TYR:O	2:MG:58:ALA:HB1	2.16	0.45
2:AG:402:ARG:HG2	2:AG:402:ARG:O	2.16	0.45
3:AH:66:VAL:HG13	3:AH:147:MET:SD	2.55	0.45
3:AH:113:VAL:HA	3:AH:116:VAL:HG22	1.98	0.45
2:AI:419:SER:HB2	22:XE:108:TYR:CE2	2.51	0.45
4:B7:117:LEU:O	4:B7:121:GLU:HG2	2.15	0.45
4:B8:322:THR:HG23	4:B8:323:TYR:HD1	1.81	0.45
2:BI:396:ASP:N	2:BI:396:ASP:OD1	2.47	0.45
5:C2:254:LEU:HD11	5:C2:311:SER:HB3	1.98	0.45
5:C3:157:LYS:NZ	5:C3:262:GLN:HB3	2.31	0.45
5:C7:119:ARG:HH22	7:E2:149:PHE:N	2.12	0.45
2:CG:219:ILE:HG21	11:H3:33:ASN:HB3	1.97	0.45
2:CG:230:LEU:O	2:CG:234:ILE:HG12	2.15	0.45
2:CG:252:LEU:HD12	2:CG:253:THR:N	2.31	0.45
3:CH:255:VAL:HG21	2:CI:100:ALA:O	2.16	0.45
2:CI:27:GLU:HG2	2:CI:28:HIS:ND1	2.31	0.45
2:CI:89:PRO:HD2	2:DG:280:LYS:NZ	2.30	0.45
3:DD:19:LYS:O	3:DD:23:VAL:HG23	2.16	0.45
2:DE:196:GLU:HG2	2:DE:197:HIS:ND1	2.30	0.45
3:DF:19:LYS:O	3:DF:22:GLU:HG3	2.17	0.45
3:ED:290:THR:HA	3:ED:293:MET:HB3	1.99	0.45
2:EE:40:LYS:NZ	10:G5:716:LYS:HD2	2.30	0.45
2:EE:260:VAL:O	3:EF:397:TRP:HH2	2.00	0.45
3:EF:15:GLN:NE2	3:EF:222:TYR:CE1	2.84	0.45
2:EG:186:ASN:OD1	2:EG:187:SER:N	2.49	0.45
3:EH:328:GLU:OE1	3:EH:332:ASN:ND2	2.49	0.45
8:F3:90:TYR:HB3	10:G5:560:ARG:CZ	2.46	0.45
8:F6:98:SER:O	8:F6:101:LEU:HB2	2.16	0.45
8:F6:151:PHE:O	8:F6:154:SER:OG	2.31	0.45
8:F6:194:CYS:O	8:F6:198:ARG:HG2	2.16	0.45
8:F7:346:ARG:O	8:F7:350:GLU:HG2	2.15	0.45
8:F7:427:LEU:HD12	8:F7:430:LEU:HD11	1.97	0.45
2:FE:207:GLU:HB2	2:FE:304:LYS:HZ1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:263:LEU:HD13	3:FF:422:TYR:CZ	2.51	0.45
2:FG:288:VAL:HG23	2:FG:319:TYR:HE2	1.80	0.45
3:FH:84:ILE:O	3:FH:86:ARG:NH1	2.49	0.45
3:FH:272:PRO:HA	3:FH:292:GLN:OE1	2.16	0.45
3:FH:378:PHE:CE1	3:FH:419:VAL:HG22	2.52	0.45
9:G2:50:ASP:N	9:G2:50:ASP:OD1	2.48	0.45
10:G5:49:TYR:HE2	3:MH:77:ARG:HH12	1.63	0.45
10:G5:159:VAL:HG22	10:G5:164:THR:HG23	1.96	0.45
10:G5:726:SER:OG	10:G5:727:PRO:HD2	2.16	0.45
3:GD:84:ILE:O	3:GD:86:ARG:NH1	2.47	0.45
3:GD:137:HIS:O	3:GD:168:SER:HA	2.16	0.45
3:GD:228:LEU:O	3:GD:232:THR:HG23	2.15	0.45
2:GE:35:GLN:NE2	2:GE:59:GLY:O	2.49	0.45
2:GE:317:MET:HG2	2:GE:319:TYR:CE1	2.51	0.45
2:GE:377:MET:SD	2:GE:379:SER:HB3	2.56	0.45
3:GF:174:LYS:HG3	3:GF:175:VAL:N	2.31	0.45
3:GF:419:VAL:CG1	3:GF:423:GLN:HE22	2.27	0.45
2:GG:31:GLN:HE22	2:GG:37:PRO:HG3	1.81	0.45
2:GG:74:VAL:HA	2:GG:77:GLU:HG3	1.98	0.45
3:GH:285:THR:O	3:GH:288:GLU:HG3	2.16	0.45
2:HE:10:GLY:O	2:HE:13:GLY:N	2.49	0.45
3:HF:105:HIS:HA	3:HF:150:LEU:HD11	1.98	0.45
2:IE:389:ALA:HA	2:IE:392:ASP:OD2	2.17	0.45
3:IF:204:ASN:HA	3:IF:207:LEU:HD12	1.97	0.45
2:IG:30:ILE:HG23	2:IG:36:MET:HE3	1.98	0.45
3:IH:11:GLN:OE1	25:IH:501:GTP:N2	2.49	0.45
3:IH:12:CYS:HB3	25:IH:501:GTP:O4'	2.16	0.45
2:II:136:LEU:HD12	2:II:169:PHE:HE1	1.80	0.45
2:II:334:THR:O	2:II:337:THR:OG1	2.26	0.45
13:J3:46:HIS:O	13:J3:100:ARG:HD2	2.16	0.45
3:JD:355:ASP:OD1	3:JD:355:ASP:N	2.49	0.45
2:JE:50:ASN:OD1	2:JE:51:THR:N	2.49	0.45
3:JF:117:LEU:HD11	3:JF:154:LYS:HD2	1.98	0.45
3:JF:395:LEU:H	3:JF:395:LEU:HD23	1.81	0.45
3:JF:409:THR:O	3:JF:412:GLU:HG3	2.15	0.45
2:JG:8:HIS:CD2	2:JG:67:PHE:HE1	2.34	0.45
2:JG:180:ALA:O	2:JG:183:GLU:HB2	2.16	0.45
2:JG:259:LEU:HD21	2:JG:316:CYS:HB2	1.98	0.45
3:JH:42:LEU:HD11	3:JH:356:ILE:HG13	1.98	0.45
14:K3:175:ASN:ND2	14:K3:202:GLU:OE2	2.49	0.45
14:K4:280:THR:HG21	14:K4:289:TYR:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:252:LYS:HE3	2:KE:100:ALA:HA	1.98	0.45
2:KE:253:THR:O	2:KE:257:THR:HG23	2.16	0.45
2:KE:278:ALA:HA	2:KE:369:ALA:HB2	1.97	0.45
2:KG:363:VAL:HG13	2:KG:366:GLY:HA3	1.98	0.45
2:KI:54:SER:OG	2:KI:64:ARG:NE	2.49	0.45
2:KI:90:GLU:N	2:KI:90:GLU:OE1	2.50	0.45
2:KI:237:SER:HA	2:KI:320:ARG:HH11	1.81	0.45
15:L3:185:MET:HG2	15:L3:186:LYS:N	2.32	0.45
3:LD:19:LYS:O	3:LD:22:GLU:HG3	2.15	0.45
2:LE:89:PRO:HD3	2:ME:283:HIS:CE1	2.51	0.45
2:LI:287:SER:OG	2:LI:290:GLU:OE1	2.31	0.45
2:LI:318:LEU:O	2:LI:375:VAL:HA	2.16	0.45
2:ME:123:ARG:NE	2:ME:161:TYR:OH	2.49	0.45
3:MF:233:MET:O	3:MF:236:VAL:HG12	2.16	0.45
2:MG:102:ASN:CG	2:MG:105:ARG:H	2.19	0.45
2:MG:254:GLU:CD	3:MH:98:GLY:HA2	2.37	0.45
2:NE:14:VAL:HG21	2:NE:74:VAL:HG21	1.97	0.45
2:NE:205:ASP:O	2:NE:209:ILE:HG13	2.16	0.45
2:NG:145:THR:HG23	25:NG:501:GTP:O3B	2.16	0.45
3:NH:138:SER:HB2	3:NH:169:VAL:CG1	2.46	0.45
3:NH:169:VAL:HA	3:NH:202:ILE:HB	1.98	0.45
3:NH:171:PRO:HB3	3:NH:181:GLU:OE2	2.16	0.45
3:NH:375:GLN:HA	3:NH:378:PHE:CZ	2.49	0.45
2:OE:139:HIS:CE1	2:OE:168:GLU:HB3	2.51	0.45
2:OE:274:PRO:HG3	2:OE:374:ALA:HA	1.97	0.45
3:OF:380:ARG:HG3	3:OF:381:ILE:N	2.31	0.45
2:OG:291:ILE:HD11	2:OG:319:TYR:CE2	2.51	0.45
2:OG:326:LYS:NZ	3:OH:211:CYS:HB3	2.31	0.45
19:P1:339:VAL:HG13	19:P1:382:PHE:CE1	2.51	0.45
19:P2:529:TRP:CE2	19:P2:536:VAL:HG22	2.51	0.45
2:PE:209:ILE:HG23	2:PE:230:LEU:HD21	1.99	0.45
3:PF:47:ILE:HG13	3:PF:51:TYR:HB2	1.96	0.45
2:PG:354:GLY:O	2:PG:355:ILE:HD13	2.17	0.45
2:PI:174:ALA:HB3	2:PI:177:VAL:O	2.15	0.45
2:QE:171:ILE:O	2:QE:171:ILE:HG13	2.15	0.45
3:QF:187:LEU:HD21	3:QF:408:PHE:CD1	2.50	0.45
2:QG:226:ASN:O	2:QG:230:LEU:HG	2.16	0.45
3:QH:72:THR:O	3:QH:75:SER:OG	2.27	0.45
2:QI:1:MET:O	2:QI:133:GLN:NE2	2.49	0.45
2:QI:98:ASP:O	2:QI:105:ARG:NE	2.39	0.45
2:QI:234:ILE:O	2:QI:238:ILE:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QI:304:LYS:HD2	2:QI:304:LYS:N	2.30	0.45
2:RE:5:ILE:HB	2:RE:135:PHE:CD1	2.50	0.45
2:RE:137:ILE:HB	2:RE:168:GLU:HA	1.97	0.45
2:RE:409:VAL:HG23	2:RE:413:MET:O	2.16	0.45
3:RF:65:LEU:HD23	3:RF:90:PHE:CD1	2.51	0.45
3:RF:224:ASP:O	3:RF:228:LEU:HG	2.16	0.45
3:RF:314:ALA:HA	3:RF:350:LYS:O	2.16	0.45
2:RG:207:GLU:HB2	2:RG:304:LYS:HZ3	1.81	0.45
2:RI:89:PRO:HB2	2:RI:90:GLU:OE1	2.16	0.45
2:RI:109:THR:O	2:RI:112:LYS:NZ	2.48	0.45
2:SE:211:ASP:HB2	2:SE:215:ARG:HH21	1.81	0.45
2:SE:434:GLU:HA	2:SE:437:VAL:HG12	1.97	0.45
3:SF:6:HIS:CE1	3:SF:8:GLN:HB2	2.52	0.45
3:SH:22:GLU:HB2	3:SH:81:PHE:CD2	2.51	0.45
3:SH:81:PHE:O	3:SH:84:ILE:HG22	2.15	0.45
2:SI:207:GLU:HB2	2:SI:304:LYS:NZ	2.31	0.45
3:SJ:4:ILE:HD11	3:SJ:131:GLN:HB2	1.97	0.45
3:TF:173:PRO:HA	3:TF:380:ARG:CZ	2.46	0.45
3:TF:252:LYS:HD3	2:TG:100:ALA:HA	1.99	0.45
2:TG:257:THR:HA	3:TH:397:TRP:CE2	2.51	0.45
3:TH:103:LYS:HB3	3:TH:108:GLU:HG2	1.97	0.45
2:TI:33:ASP:OD1	2:TI:35:GLN:N	2.36	0.45
2:TI:188:ILE:HG22	2:TI:421:ALA:HB1	1.97	0.45
3:TJ:39:ASP:N	3:TJ:39:ASP:OD1	2.49	0.45
2:UE:66:VAL:HG12	2:UE:68:VAL:HG13	1.98	0.45
2:UE:202:PHE:CD1	2:UE:378:LEU:HD12	2.51	0.45
2:UE:417:GLU:HA	2:UE:420:GLU:HG3	1.98	0.45
2:UG:9:VAL:HA	2:UG:68:VAL:HG23	1.98	0.45
2:UG:101:ASN:CG	2:UG:144:GLY:HA2	2.36	0.45
3:UH:54:ALA:HB3	3:UH:58:LYS:HB2	1.98	0.45
3:UH:139:LEU:N	3:UH:168:SER:OG	2.49	0.45
3:UH:152:ILE:HA	3:UH:155:ILE:HG12	1.96	0.45
3:VD:11:GLN:HA	3:VD:14:ASN:ND2	2.31	0.45
3:VD:147:MET:O	3:VD:151:LEU:HD23	2.17	0.45
3:VD:199:THR:HB	3:VD:265:PHE:HA	1.97	0.45
3:VD:205:GLU:HA	3:VD:208:TYR:CD2	2.51	0.45
3:VF:70:PRO:HG3	3:VF:92:PHE:CE2	2.52	0.45
3:VF:349:VAL:O	3:VF:350:LYS:HD3	2.15	0.45
3:VH:215:LEU:HD11	3:VH:228:LEU:HD11	1.97	0.45
3:VH:326:VAL:O	3:VH:329:GLN:HG2	2.15	0.45
2:WE:51:THR:HG23	2:WE:52:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:2:ARG:HA	3:WF:129:CYS:O	2.16	0.45
3:WF:378:PHE:HE1	3:WF:419:VAL:HG13	1.82	0.45
2:WG:33:ASP:OD1	2:WG:35:GLN:N	2.37	0.45
2:WI:8:HIS:CE1	2:WI:65:ALA:HB1	2.52	0.45
2:WI:113:GLU:OE1	2:WI:113:GLU:N	2.37	0.45
2:WI:176:GLN:NE2	2:WI:177:VAL:HG23	2.31	0.45
2:WI:319:TYR:HB2	2:WI:355:ILE:HD13	1.98	0.45
22:XC:76:LEU:HD11	22:XC:134:PHE:HD2	1.81	0.45
23:XL:141:LEU:HD13	23:XL:180:ILE:HG21	1.97	0.45
1:A2:128:VAL:HG23	1:A3:11:PHE:O	2.15	0.45
1:A2:133:GLU:O	1:A2:137:GLN:HG2	2.17	0.45
2:AE:357:TYR:CE2	9:G1:151:ARG:HD3	2.51	0.45
3:AH:86:ARG:NE	3:AH:86:ARG:HA	2.31	0.45
3:AH:280:GLN:HB2	3:MH:58:LYS:HZ2	1.81	0.45
2:AI:33:ASP:OD1	2:AI:34:GLY:N	2.48	0.45
4:B7:119:LEU:O	4:B7:122:SER:OG	2.26	0.45
4:B7:144:ILE:O	4:B7:147:THR:OG1	2.31	0.45
4:B8:355:LYS:HA	4:B8:358:GLN:OE1	2.16	0.45
2:BE:417:GLU:OE1	2:BE:417:GLU:N	2.45	0.45
2:BG:207:GLU:HB2	2:BG:304:LYS:HE2	1.99	0.45
3:BH:26:ASP:OD1	3:BH:27:GLU:N	2.49	0.45
3:BH:46:ARG:NH1	3:BH:240:LEU:O	2.49	0.45
2:BI:185:TYR:HA	2:BI:395:PHE:HE2	1.80	0.45
5:C3:178:LYS:HA	5:C3:181:LEU:HB2	1.97	0.45
5:C8:168:ILE:O	5:C8:171:THR:OG1	2.29	0.45
3:CF:171:PRO:HG3	3:CF:181:GLU:OE2	2.15	0.45
2:CI:279:GLU:N	2:CI:279:GLU:OE1	2.50	0.45
3:CJ:20:PHE:HA	3:CJ:230:SER:HB2	1.99	0.45
3:CJ:170:VAL:N	3:CJ:202:ILE:O	2.36	0.45
3:CJ:171:PRO:HB3	3:CJ:181:GLU:CD	2.37	0.45
6:D3:431:MET:HA	6:D3:434:ARG:HB2	1.98	0.45
2:DE:71:GLU:OE1	2:DE:71:GLU:N	2.50	0.45
3:DF:74:ASP:O	3:DF:77:ARG:HG2	2.16	0.45
2:DG:51:THR:HG23	2:DG:52:PHE:CD2	2.51	0.45
2:DG:180:ALA:HB1	2:DG:182:VAL:HG12	1.98	0.45
3:DH:138:SER:HB3	25:DH:501:GTP:H5'	1.97	0.45
2:EE:50:ASN:O	2:EE:64:ARG:NH1	2.49	0.45
2:EE:224:TYR:CE2	25:EE:501:GTP:C8	3.03	0.45
2:EG:208:ALA:HB2	2:EG:304:LYS:HE3	1.98	0.45
2:EG:229:ARG:HH12	2:EG:233:GLN:HB3	1.80	0.45
2:EG:264:ARG:NH1	2:EG:265:ILE:HB	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F6:162:ARG:HB3	8:F6:311:ARG:CZ	2.46	0.45
2:FE:21:TRP:CZ2	2:FE:63:PRO:HB3	2.51	0.45
2:FE:63:PRO:HG2	2:FE:87:PHE:CD1	2.51	0.45
2:FE:427:ALA:O	2:FE:430:LYS:HG3	2.16	0.45
3:FF:130:LEU:HB3	3:FF:132:GLY:H	1.81	0.45
2:FG:173:PRO:HB2	2:FG:390:ARG:HH22	1.81	0.45
3:FH:105:HIS:ND1	3:FH:150:LEU:HG	2.31	0.45
10:G5:656:LYS:HD3	10:G5:659:ARG:NE	2.30	0.45
3:GD:5:VAL:HB	3:GD:133:PHE:HD1	1.77	0.45
3:GF:375:GLN:HA	3:GF:378:PHE:CE1	2.52	0.45
2:GG:151:SER:O	2:GG:154:MET:HG3	2.16	0.45
2:GG:203:MET:N	2:GG:203:MET:SD	2.89	0.45
11:H4:253:VAL:O	11:H4:254:PHE:C	2.55	0.45
3:HD:2:ARG:HD3	3:HD:131:GLN:HG3	1.98	0.45
3:HD:226:ASN:HA	3:HD:229:VAL:HG12	1.98	0.45
3:HD:375:GLN:HA	3:HD:378:PHE:CZ	2.52	0.45
3:HF:174:LYS:N	3:HF:205:GLU:OE2	2.35	0.45
3:HF:214:THR:HG21	3:HF:273:LEU:HD13	1.97	0.45
3:HF:251:ARG:HB3	2:HG:100:ALA:CB	2.46	0.45
2:HG:166:LYS:HZ3	2:HG:197:HIS:HB3	1.81	0.45
2:HG:306:ASP:HB3	2:HG:309:HIS:ND1	2.32	0.45
3:HH:84:ILE:O	3:HH:86:ARG:NH1	2.49	0.45
3:HH:316:VAL:HG22	3:HH:352:ALA:HB3	1.97	0.45
2:HI:102:ASN:ND2	2:HI:411:GLU:HG2	2.31	0.45
2:IE:91:GLN:HB3	2:IE:121:ARG:HH21	1.81	0.45
2:IG:75:VAL:HG23	2:IG:92:LEU:HD12	1.98	0.45
2:IG:207:GLU:HA	2:IG:210:TYR:CD2	2.51	0.45
2:IG:347:CYS:HB2	2:IG:349:THR:O	2.17	0.45
3:IH:330:MET:SD	3:IH:331:LEU:N	2.89	0.45
3:IH:350:LYS:HZ1	2:II:181:VAL:HG13	1.81	0.45
13:J2:162:ARG:HG2	13:J2:163:ASN:N	2.31	0.45
3:JD:273:LEU:H	3:JD:292:GLN:NE2	2.14	0.45
3:JD:378:PHE:HE1	3:JD:419:VAL:HG13	1.81	0.45
3:JD:389:PHE:CZ	3:JD:405:GLU:HB2	2.51	0.45
2:JE:30:ILE:HA	2:JE:36:MET:CE	2.45	0.45
2:JE:311:LYS:NZ	2:JE:342:GLN:HG3	2.31	0.45
3:JF:375:GLN:HE21	3:JF:422:TYR:HB3	1.80	0.45
2:JG:11:GLN:HA	2:JG:14:VAL:HG22	1.98	0.45
2:JG:338:LYS:NZ	2:JG:339:ARG:H	2.13	0.45
3:JH:1:MET:O	3:JH:129:CYS:HB2	2.17	0.45
3:JH:101:TRP:CZ2	3:JH:187:LEU:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:187:LEU:O	3:JH:191:GLN:NE2	2.49	0.45
3:JH:372:THR:HG21	3:JH:426:GLN:HB2	1.98	0.45
3:JH:377:LEU:O	3:JH:381:ILE:HG12	2.16	0.45
14:K3:128:ALA:HA	14:K3:131:ARG:HE	1.80	0.45
3:KD:2:ARG:HD2	3:KD:2:ARG:O	2.16	0.45
3:KD:11:GLN:O	3:KD:15:GLN:HG2	2.16	0.45
3:KD:12:CYS:SG	3:KD:13:GLY:N	2.89	0.45
2:KE:89:PRO:HD3	2:LE:283:HIS:NE2	2.31	0.45
2:KE:263:PRO:HB2	2:KE:264:ARG:NH1	2.32	0.45
3:KF:376:GLU:O	3:KF:379:LYS:HG3	2.16	0.45
2:KG:346:TRP:CZ3	3:KH:393:ALA:HB2	2.51	0.45
3:KH:117:LEU:HB3	3:KH:121:ARG:HH12	1.80	0.45
15:L2:221:VAL:HA	15:L2:224:LYS:HE2	1.98	0.45
15:L3:72:LEU:HG	15:L3:74:PRO:HD3	1.96	0.45
3:LD:372:THR:HG21	3:LD:426:GLN:HG2	1.98	0.45
2:LE:51:THR:HG23	2:LE:52:PHE:HD1	1.80	0.45
3:LF:345:ILE:HD12	3:LF:346:PRO:HD2	1.98	0.45
2:LG:417:GLU:O	2:LG:420:GLU:HG2	2.17	0.45
3:LH:41:ASP:N	3:LH:41:ASP:OD1	2.48	0.45
2:LI:90:GLU:HG2	2:LI:121:ARG:HH22	1.82	0.45
3:MF:36:TYR:CE2	3:MF:44:LEU:HD13	2.52	0.45
3:MF:152:ILE:HA	3:MF:155:ILE:HG12	1.99	0.45
3:MF:197:ASP:O	3:MF:264:HIS:ND1	2.49	0.45
2:MG:76:ASP:OD1	2:MG:79:ARG:NH1	2.48	0.45
2:MG:225:THR:O	2:MG:229:ARG:NE	2.47	0.45
2:MG:269:LEU:HD12	2:MG:270:ALA:H	1.82	0.45
2:MI:25:CYS:SG	2:MI:26:LEU:HD22	2.57	0.45
17:N2:157:TYR:HE2	3:VD:45:GLU:O	1.99	0.45
3:ND:52:ASN:OD1	3:ND:62:ARG:NH1	2.50	0.45
3:ND:378:PHE:CE1	3:ND:419:VAL:HG22	2.51	0.45
3:NF:86:ARG:NH2	3:OF:281:TYR:CZ	2.84	0.45
3:NF:252:LYS:HE3	2:NG:100:ALA:HA	1.98	0.45
2:NG:5:ILE:HB	2:NG:135:PHE:CD1	2.52	0.45
2:NG:138:PHE:HD1	2:NG:169:PHE:HB2	1.81	0.45
2:NG:208:ALA:HB2	2:NG:304:LYS:HE3	1.98	0.45
3:NH:83:GLN:OE1	3:NH:83:GLN:N	2.39	0.45
3:NH:378:PHE:CD1	3:NH:419:VAL:HG22	2.50	0.45
2:NI:21:TRP:HA	2:NI:24:TYR:CD2	2.51	0.45
3:OD:173:PRO:O	3:OD:380:ARG:NH2	2.49	0.45
2:OE:211:ASP:O	2:OE:215:ARG:HB2	2.15	0.45
3:OF:21:TRP:CZ2	3:OF:63:ALA:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:105:HIS:HA	3:OF:150:LEU:HD11	1.98	0.45
3:OF:182:PRO:HB2	3:OF:388:MET:HE1	1.98	0.45
3:OF:230:SER:HA	3:OF:233:MET:HG3	1.98	0.45
3:OH:224:ASP:O	3:OH:227:HIS:HB3	2.15	0.45
2:OI:246:GLY:HA2	2:OI:357:TYR:HD1	1.80	0.45
19:P1:337:ASP:HB3	19:P1:380:ILE:HG12	1.98	0.45
19:P1:396:GLY:N	19:P1:419:GLY:HA2	2.31	0.45
19:P1:479:ALA:HB1	19:P1:505:PHE:HB3	1.98	0.45
19:P2:242:THR:OG1	19:P2:243:GLY:N	2.50	0.45
3:PF:15:GLN:OE1	3:PF:15:GLN:N	2.49	0.45
2:PG:102:ASN:HB3	2:PG:105:ARG:HB2	1.97	0.45
2:PG:397:LEU:HD12	2:PG:398:MET:N	2.32	0.45
3:PH:41:ASP:N	24:YM:20:GLN:HE21	2.15	0.45
20:Q2:1471:VAL:O	20:Q2:1475:ARG:HG3	2.16	0.45
2:QE:175:PRO:HG2	2:QE:304:LYS:HD3	1.97	0.45
3:QF:83:GLN:OE1	3:QF:83:GLN:N	2.39	0.45
3:QF:278:SER:O	3:QF:282:ARG:HB2	2.16	0.45
2:QG:262:TYR:CE1	3:QH:393:ALA:HA	2.51	0.45
2:QG:413:MET:HG3	2:QG:414:GLU:N	2.31	0.45
2:RE:16:ILE:HG13	2:RE:17:GLY:H	1.80	0.45
2:RE:207:GLU:HB2	2:RE:304:LYS:HE2	1.98	0.45
2:RG:136:LEU:HG	2:RG:169:PHE:HE2	1.82	0.45
2:RG:399:TYR:O	2:RG:402:ARG:HD3	2.16	0.45
2:RI:113:GLU:N	2:RI:113:GLU:OE1	2.49	0.45
2:RI:136:LEU:HB3	2:RI:138:PHE:CE2	2.51	0.45
2:RI:320:ARG:CZ	2:RI:360:PRO:HA	2.46	0.45
3:RJ:21:TRP:HE3	3:RJ:51:TYR:HH	1.63	0.45
3:RJ:123:GLU:O	3:RJ:126:SER:OG	2.35	0.45
3:RJ:182:PRO:O	3:RJ:385:PHE:HZ	2.00	0.45
2:SE:258:ASN:HB2	2:SE:352:LYS:CE	2.45	0.45
2:SE:288:VAL:HA	2:SE:291:ILE:HG12	1.97	0.45
3:SF:313:VAL:HG23	3:SF:349:VAL:HA	1.97	0.45
3:SF:324:LYS:CE	2:SG:222:PRO:HG2	2.46	0.45
2:SG:429:GLU:HA	2:SG:432:TYR:CD2	2.51	0.45
2:SI:172:TYR:CG	2:SI:173:PRO:HD2	2.51	0.45
3:SJ:99:ASN:OD1	3:SJ:142:GLY:HA3	2.16	0.45
3:TF:117:LEU:CD2	3:TF:154:LYS:HD3	2.46	0.45
3:TF:345:ILE:HG23	3:TF:345:ILE:O	2.16	0.45
2:TG:202:PHE:CZ	2:TG:378:LEU:HD12	2.51	0.45
2:TG:266:HIS:C	2:TG:268:PRO:HD3	2.37	0.45
3:TH:252:LYS:NZ	2:TI:144:GLY:HA3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:11:GLN:HA	2:TI:14:VAL:HG22	1.98	0.45
2:TI:171:ILE:HD12	2:TI:204:VAL:HG13	1.97	0.45
2:TI:196:GLU:HG2	2:TI:197:HIS:ND1	2.32	0.45
2:TI:214:ARG:HH12	2:TI:215:ARG:HG3	1.81	0.45
3:TJ:11:GLN:HE21	25:TJ:501:GTP:H3'	1.82	0.45
2:UG:334:THR:O	2:UG:337:THR:OG1	2.28	0.45
3:UH:60:VAL:HG23	3:UH:86:ARG:NH1	2.31	0.45
3:VD:6:HIS:CE1	3:VD:8:GLN:NE2	2.84	0.45
3:VD:139:LEU:N	3:VD:168:SER:OG	2.50	0.45
2:VE:9:VAL:HG11	2:VE:150:ALA:HB2	1.98	0.45
2:VE:170:ALA:O	2:VE:203:MET:HA	2.16	0.45
3:VF:395:LEU:O	3:VF:399:THR:HG23	2.17	0.45
2:VG:252:LEU:HD12	2:VG:253:THR:N	2.31	0.45
3:VH:328:GLU:OE1	3:VH:332:ASN:ND2	2.49	0.45
3:WF:151:LEU:HD12	3:WF:152:ILE:N	2.31	0.45
2:WG:368:LEU:H	2:WG:368:LEU:HD23	1.82	0.45
2:WI:70:LEU:HD13	2:WI:95:GLY:HA3	1.98	0.45
2:WI:200:CYS:HA	2:WI:266:HIS:HB2	1.97	0.45
22:XC:92:GLN:OE1	22:XC:152:LEU:HB2	2.16	0.45
22:XD:89:PHE:HZ	22:XD:134:PHE:CZ	2.34	0.45
22:XD:96:ASP:OD1	22:XD:97:LYS:N	2.48	0.45
22:XD:109:GLN:HB2	22:XD:122:PRO:HB3	1.98	0.45
22:XD:170:ARG:HG2	22:XD:172:TYR:CE2	2.51	0.45
24:YJ:15:TYR:OH	24:YJ:141:ILE:HG21	2.16	0.45
24:YL:49:VAL:HA	24:YL:52:TYR:CD2	2.51	0.45
1:A2:288:GLU:O	1:A2:291:SER:OG	2.26	0.45
3:AF:40:SER:O	3:AF:43:GLN:HG2	2.17	0.45
2:AI:47:ASP:O	2:AI:49:PHE:N	2.50	0.45
4:B3:4:LEU:HG	4:B3:4:LEU:O	2.15	0.45
4:B7:48:GLU:HG2	13:J2:97:ARG:HD2	1.99	0.45
2:BE:19:ALA:O	2:BE:23:LEU:HG	2.16	0.45
2:BE:121:ARG:O	2:BE:124:LYS:HG3	2.17	0.45
2:BE:174:ALA:HB3	2:BE:177:VAL:O	2.16	0.45
2:BG:89:PRO:CB	2:CG:280:LYS:HZ1	2.24	0.45
2:BG:173:PRO:HG3	2:BG:183:GLU:OE2	2.16	0.45
2:BI:326:LYS:HA	2:BI:329:ASN:HD21	1.81	0.45
5:C2:131:LYS:NZ	5:C3:434:LEU:HD13	2.31	0.45
5:C3:406:ARG:HH12	5:C3:412:CYS:H	1.63	0.45
5:C8:197:GLU:O	5:C8:201:HIS:CB	2.65	0.45
3:CF:233:MET:O	3:CF:236:VAL:HG12	2.17	0.45
2:CG:202:PHE:CE2	2:CG:378:LEU:HD21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:45:GLU:HG3	3:CJ:46:ARG:HD3	1.98	0.45
6:D3:179:GLU:OE2	6:D3:296:GLN:HG3	2.16	0.45
6:D7:363:ARG:HE	6:D8:224:ILE:HG22	1.81	0.45
6:D8:162:ARG:HH22	6:D8:168:VAL:H	1.63	0.45
3:DD:72:THR:O	3:DD:76:VAL:HG13	2.16	0.45
3:DD:226:ASN:HA	3:DD:229:VAL:HG22	1.99	0.45
2:DE:79:ARG:NH2	11:H3:284:PHE:O	2.46	0.45
2:DG:56:THR:HB	2:EG:285:GLN:HG3	1.97	0.45
2:DG:229:ARG:NH2	2:DG:368:LEU:HD22	2.31	0.45
2:EE:148:GLY:O	2:EE:151:SER:OG	2.29	0.45
3:EF:406:MET:O	3:EF:409:THR:OG1	2.24	0.45
2:EG:117:LEU:O	2:EG:120:ASP:HB3	2.17	0.45
3:EH:12:CYS:HB3	25:EH:501:GTP:H5'	1.97	0.45
8:F2:379:GLU:HA	8:F2:382:ILE:HD12	1.98	0.45
8:F7:450:ARG:HA	8:F7:453:HIS:HD1	1.81	0.45
8:F7:474:LYS:HG3	8:F7:475:SER:H	1.82	0.45
2:FE:288:VAL:HG11	2:FE:327:ASP:CB	2.45	0.45
10:G5:15:ILE:O	10:G5:17:LYS:NZ	2.38	0.45
10:G5:627:PHE:HA	10:G5:630:ASN:ND2	2.32	0.45
10:G5:694:PHE:CD1	10:G5:697:LEU:HD21	2.52	0.45
3:GD:330:MET:CG	3:GD:349:VAL:HG11	2.41	0.45
2:GE:263:PRO:HD3	3:GF:396:HIS:CE1	2.51	0.45
3:GF:4:ILE:CD1	3:GF:131:GLN:HB2	2.47	0.45
2:GI:75:VAL:O	2:GI:78:VAL:HG12	2.17	0.45
11:H3:256:HIS:O	11:H3:256:HIS:CG	2.68	0.45
11:H3:298:LEU:HD12	11:H3:298:LEU:HA	1.83	0.45
11:H4:215:ARG:H	11:H4:215:ARG:HD3	1.82	0.45
2:HE:398:MET:HA	2:HE:401:LYS:HG2	1.98	0.45
3:HF:344:TRP:CZ2	2:HG:401:LYS:HB2	2.52	0.45
3:HH:245:GLN:H	3:HH:245:GLN:HG3	1.59	0.45
2:IE:239:THR:OG1	2:IE:243:ARG:NH1	2.48	0.45
2:IE:265:ILE:HG13	2:IE:267:PHE:HD2	1.82	0.45
2:IG:103:TYR:OH	2:IG:193:THR:HG21	2.17	0.45
3:IH:101:TRP:CE3	3:IH:187:LEU:HD13	2.50	0.45
2:II:16:ILE:HD11	2:II:138:PHE:CG	2.52	0.45
2:II:329:ASN:HA	2:II:332:ILE:HG12	1.98	0.45
3:JD:135:LEU:HD22	3:JD:151:LEU:HD11	1.99	0.45
2:JE:205:ASP:O	2:JE:209:ILE:HG12	2.16	0.45
2:JE:263:PRO:HD3	3:JF:396:HIS:CD2	2.51	0.45
3:JH:26:ASP:OD1	3:JH:27:GLU:N	2.49	0.45
3:JH:171:PRO:HB3	3:JH:181:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:318:ARG:NE	3:JH:356:ILE:O	2.35	0.45
3:KD:233:MET:O	3:KD:236:VAL:HG12	2.16	0.45
3:KD:235:GLY:HA3	3:KD:366:THR:HG21	1.99	0.45
2:KE:215:ARG:NH2	2:KE:299:ALA:O	2.49	0.45
2:KE:306:ASP:OD2	2:NE:282:TYR:OH	2.32	0.45
2:KE:338:LYS:HZ2	2:KE:340:THR:N	2.15	0.45
2:KG:235:VAL:O	2:KG:238:ILE:HG12	2.16	0.45
3:KH:319:GLY:HA3	3:KH:363:MET:HE3	1.99	0.45
2:KI:311:LYS:NZ	2:KI:342:GLN:HB3	2.30	0.45
15:L3:167:LYS:O	15:L3:170:GLU:HB3	2.15	0.45
3:LD:55:THR:O	3:LD:58:LYS:NZ	2.37	0.45
3:LF:249:ASP:O	3:LF:252:LYS:HB3	2.16	0.45
2:LG:119:LEU:HA	2:LG:122:ILE:HG12	1.97	0.45
2:LG:308:ARG:NH2	2:LG:341:ILE:HD13	2.31	0.45
2:LI:76:ASP:OD1	2:LI:79:ARG:NE	2.41	0.45
2:ME:427:ALA:HA	2:ME:430:LYS:HZ3	1.81	0.45
2:MG:102:ASN:ND2	2:MG:411:GLU:HG2	2.31	0.45
3:MH:299:MET:HG3	3:MH:300:MET:N	2.31	0.45
3:MH:426:GLN:NE2	3:MH:427:ASP:OD2	2.49	0.45
2:MI:42:ILE:HG23	2:MI:59:GLY:HA2	1.98	0.45
2:NE:5:ILE:HB	2:NE:135:PHE:HD1	1.82	0.45
3:NF:259:PRO:HB3	2:NG:404:PHE:CE1	2.51	0.45
2:NI:252:LEU:HD12	2:NI:253:THR:N	2.31	0.45
3:OD:305:PRO:HB2	3:OD:310:TYR:HE1	1.81	0.45
3:OF:11:GLN:O	3:OF:14:ASN:HB2	2.15	0.45
3:OF:42:LEU:HD12	3:OF:243:PRO:HD2	1.98	0.45
2:OG:246:GLY:HA3	2:OG:355:ILE:O	2.16	0.45
3:OH:22:GLU:O	3:OH:25:SER:OG	2.29	0.45
3:OH:31:ASP:HB3	3:OH:37:HIS:NE2	2.31	0.45
3:OH:130:LEU:HG	3:OH:132:GLY:N	2.32	0.45
3:OH:162:ARG:HA	3:OH:251:ARG:NH2	2.29	0.45
2:OI:45:GLY:HA2	2:OI:49:PHE:HE1	1.81	0.45
2:OI:98:ASP:OD1	2:OI:99:ALA:N	2.49	0.45
3:PF:311:LEU:HD22	3:PF:425:TYR:HE2	1.81	0.45
3:PH:83:GLN:O	3:PH:86:ARG:NH2	2.37	0.45
2:PI:89:PRO:HD2	2:QI:280:LYS:NZ	2.28	0.45
2:PI:132:LEU:HD13	2:PI:164:LYS:HE3	1.98	0.45
2:QE:172:TYR:CG	2:QE:173:PRO:HD2	2.51	0.45
2:QE:425:LEU:O	2:QE:428:LEU:N	2.49	0.45
2:QG:229:ARG:HH12	2:QG:233:GLN:HB3	1.81	0.45
2:QG:354:GLY:O	2:QG:355:ILE:HD13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:199:THR:CB	3:QH:264:HIS:O	2.65	0.45
3:QH:249:ASP:O	3:QH:253:LEU:HG	2.16	0.45
2:QI:285:GLN:NE2	2:QI:286:LEU:O	2.49	0.45
2:RE:54:SER:O	2:RE:62:VAL:N	2.43	0.45
2:RE:279:GLU:OE2	2:RE:280:LYS:HG2	2.16	0.45
2:RE:417:GLU:OE1	2:RE:417:GLU:N	2.28	0.45
3:RF:1:MET:SD	3:RF:2:ARG:N	2.90	0.45
3:RH:19:LYS:HD2	3:RH:22:GLU:OE2	2.16	0.45
3:RJ:318:ARG:HA	3:RJ:354:CYS:O	2.15	0.45
2:SE:402:ARG:O	2:SE:402:ARG:HD2	2.17	0.45
2:SE:426:ALA:O	2:SE:430:LYS:HD3	2.17	0.45
3:SF:235:GLY:O	3:SF:238:THR:OG1	2.26	0.45
2:SG:262:TYR:CE1	3:SH:393:ALA:HA	2.52	0.45
3:SH:229:VAL:HG12	3:SH:233:MET:HE1	1.98	0.45
2:SI:109:THR:O	2:SI:112:LYS:NZ	2.48	0.45
2:SI:263:PRO:O	2:SI:265:ILE:HG22	2.17	0.45
2:SI:390:ARG:O	2:SI:394:LYS:HG3	2.16	0.45
3:SJ:420:SER:O	3:SJ:423:GLN:HG3	2.17	0.45
3:TF:378:PHE:CE1	3:TF:419:VAL:HG22	2.51	0.45
3:TF:378:PHE:HA	3:TF:381:ILE:HG22	1.99	0.45
2:TG:55:GLU:HB2	2:TG:61:HIS:CD2	2.52	0.45
2:TG:174:ALA:HB1	2:TG:207:GLU:OE2	2.15	0.45
2:TG:427:ALA:HA	2:TG:430:LYS:HG2	1.99	0.45
3:TH:243:PRO:HG2	3:TH:356:ILE:HD11	1.98	0.45
3:TJ:81:PHE:O	3:TJ:84:ILE:HG22	2.17	0.45
3:UD:314:ALA:HA	3:UD:350:LYS:O	2.16	0.45
2:UG:320:ARG:HH21	2:UG:358:GLN:HE21	1.65	0.45
3:VD:21:TRP:CZ2	3:VD:63:ALA:HB2	2.50	0.45
2:VE:209:ILE:O	2:VE:212:ILE:HG22	2.16	0.45
3:VF:276:ARG:O	3:VF:279:GLN:NE2	2.43	0.45
3:VH:26:ASP:OD1	3:VH:27:GLU:N	2.49	0.45
3:VH:172:SER:OG	3:VH:205:GLU:OE2	2.22	0.45
2:WE:144:GLY:N	25:WE:501:GTP:O2B	2.45	0.45
3:WF:21:TRP:HZ3	3:WF:51:TYR:CE1	2.34	0.45
3:WF:150:LEU:O	3:WF:154:LYS:HG3	2.16	0.45
3:WF:180:VAL:HG23	3:WF:183:TYR:HD2	1.81	0.45
3:WF:318:ARG:HG3	3:WF:354:CYS:SG	2.57	0.45
2:WI:17:GLY:O	2:WI:21:TRP:HE3	2.00	0.45
24:YL:128:ASP:HA	24:YL:131:ARG:HB2	1.97	0.45
24:YN:59:ASN:HB2	24:YN:62:HIS:CE1	2.51	0.45
1:A3:162:ARG:NH1	9:G2:199:ILE:HB	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:392:LYS:HE2	22:XC:97:LYS:HE3	1.99	0.45
2:AG:12:ALA:HB1	25:AG:501:GTP:N3	2.32	0.45
4:B8:268:ARG:O	4:B8:271:GLU:HG3	2.17	0.45
2:BE:214:ARG:HH11	2:BE:215:ARG:HG3	1.81	0.45
5:C3:332:THR:O	5:C3:335:GLU:HG3	2.16	0.45
3:CF:237:THR:O	3:CF:241:ARG:NH1	2.50	0.45
2:CG:202:PHE:CE1	2:CG:268:PRO:HG2	2.51	0.45
2:CG:208:ALA:N	2:CG:304:LYS:HZ1	2.15	0.45
3:CH:28:HIS:HB2	3:CH:30:ILE:CD1	2.46	0.45
2:CI:102:ASN:CG	2:CI:105:ARG:H	2.19	0.45
2:CI:308:ARG:NH2	2:CI:342:GLN:H	2.14	0.45
6:D7:386:MET:SD	6:D7:387:SER:N	2.90	0.45
3:ED:101:TRP:CZ3	3:ED:187:LEU:HD22	2.51	0.45
2:EE:2:ARG:CZ	2:EE:242:LEU:HA	2.46	0.45
2:EE:147:SER:HB2	2:EE:190:THR:HG21	1.98	0.45
2:EE:396:ASP:OD1	2:EE:397:LEU:N	2.49	0.45
3:EF:45:GLU:HG3	3:EF:46:ARG:HG2	1.98	0.45
2:EG:338:LYS:HA	2:EG:338:LYS:HD2	1.80	0.45
8:F3:162:ARG:HB3	8:F3:311:ARG:NH1	2.22	0.45
8:F6:295:THR:O	8:F6:298:LYS:HG2	2.16	0.45
8:F7:450:ARG:O	8:F7:454:GLU:OE1	2.35	0.45
3:FD:14:ASN:ND2	3:FD:67:ASP:OD2	2.50	0.45
3:FD:65:LEU:HD12	3:FD:90:PHE:HE1	1.81	0.45
2:FE:11:GLN:HA	2:FE:14:VAL:HG22	1.98	0.45
3:FF:148:GLY:O	3:FF:152:ILE:HG12	2.16	0.45
3:FF:229:VAL:O	3:FF:232:THR:OG1	2.28	0.45
2:FG:338:LYS:HZ2	2:FG:339:ARG:H	1.64	0.45
9:G1:320:VAL:HG21	9:G1:323:TRP:CH2	2.51	0.45
9:G1:526:GLU:OE1	9:G1:526:GLU:HA	2.16	0.45
9:G2:395:GLN:NE2	9:G2:405:PRO:HB3	2.31	0.45
10:G5:266:LEU:HD22	10:G5:272:ARG:HB3	1.96	0.45
10:G5:337:ASP:N	10:G5:337:ASP:OD1	2.48	0.45
3:GD:6:HIS:HE1	3:GD:17:GLY:HA2	1.82	0.45
3:GD:28:HIS:HA	3:GD:43:GLN:OE1	2.16	0.45
2:GE:27:GLU:HB3	2:GE:361:THR:HG21	1.98	0.45
3:GF:309:ARG:CZ	3:GF:342:VAL:HG12	2.47	0.45
3:GH:200:TYR:CZ	3:GH:368:ILE:HD13	2.52	0.45
3:GH:378:PHE:CD1	3:GH:419:VAL:HG22	2.52	0.45
2:GI:358:GLN:NE2	2:GI:359:PRO:O	2.49	0.45
2:GI:369:ALA:O	2:GI:371:VAL:HG23	2.17	0.45
11:H4:251:GLN:CA	11:H4:254:PHE:HB3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:209:ILE:HG21	2:HE:227:LEU:HG	1.98	0.45
2:HE:295:CYS:O	2:HE:301:GLN:NE2	2.48	0.45
3:HF:214:THR:HG23	3:HF:215:LEU:HD12	1.97	0.45
3:HF:289:LEU:HD13	3:HF:363:MET:HG3	1.99	0.45
3:HH:69:GLU:OE2	3:HH:72:THR:HG23	2.16	0.45
3:HH:266:PHE:CD1	3:HH:370:ASN:HB2	2.52	0.45
3:HH:289:LEU:HD21	3:HH:363:MET:HB3	1.97	0.45
3:HH:409:THR:O	3:HH:412:GLU:HG3	2.16	0.45
2:HI:185:TYR:O	2:HI:189:LEU:HG	2.15	0.45
2:HI:325:PRO:HA	2:HI:328:VAL:HB	1.99	0.45
2:IG:119:LEU:HB3	2:IG:123:ARG:NH2	2.31	0.45
3:IH:11:GLN:HE21	25:IH:501:GTP:H3'	1.82	0.45
2:II:187:SER:O	2:II:191:THR:HG23	2.15	0.45
3:JD:249:ASP:OD2	3:JD:251:ARG:HB2	2.17	0.45
3:JD:344:TRP:CD1	2:JE:401:LYS:HD3	2.50	0.45
2:JE:306:ASP:OD2	2:JE:308:ARG:HG2	2.17	0.45
3:JF:105:HIS:HA	3:JF:150:LEU:HD11	1.98	0.45
3:JF:130:LEU:O	3:JF:162:ARG:NH1	2.49	0.45
3:JF:203:ASP:N	3:JF:301:ALA:O	2.49	0.45
3:JF:252:LYS:HE2	2:JG:101:ASN:N	2.31	0.45
2:JG:265:ILE:HD12	2:JG:432:TYR:HE1	1.80	0.45
2:JG:276:ILE:HG23	2:JG:281:ALA:HB2	1.97	0.45
2:JG:333:ALA:HA	2:JG:336:LYS:HD2	1.99	0.45
3:JH:288:GLU:OE2	3:JH:289:LEU:HD12	2.17	0.45
14:K3:240:GLU:OE2	16:M2:66:PHE:HD1	2.00	0.45
2:KI:108:TYR:O	2:KI:112:LYS:NZ	2.31	0.45
2:KI:253:THR:O	2:KI:256:GLN:HG3	2.17	0.45
3:LD:183:TYR:HA	3:LD:186:THR:HG22	1.98	0.45
2:LG:336:LYS:NZ	3:LH:175:VAL:HB	2.32	0.45
16:M2:69:VAL:CG1	16:M2:73:GLN:HE22	2.27	0.45
2:MG:163:LYS:H	2:MG:164:LYS:HZ2	1.64	0.45
2:MG:207:GLU:HB2	2:MG:304:LYS:NZ	2.30	0.45
2:MG:235:VAL:O	2:MG:238:ILE:HG22	2.17	0.45
2:MG:346:TRP:CH2	2:MG:435:VAL:HB	2.52	0.45
2:MG:398:MET:HA	2:MG:401:LYS:HE3	1.98	0.45
3:MH:105:HIS:CD2	3:MH:106:TYR:CE1	3.04	0.45
2:MI:239:THR:O	2:MI:243:ARG:HG3	2.16	0.45
3:ND:105:HIS:HA	3:ND:150:LEU:HD11	1.99	0.45
2:NE:112:LYS:O	2:NE:115:VAL:HG12	2.16	0.45
2:NG:352:LYS:HA	3:NH:177:ASP:OD1	2.17	0.45
3:OD:5:VAL:HB	3:OD:133:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:265:ILE:HD12	2:OE:432:TYR:CZ	2.51	0.45
3:OF:395:LEU:O	3:OF:399:THR:HG23	2.17	0.45
2:OG:346:TRP:HA	3:OH:391:ARG:HH21	1.82	0.45
2:OG:406:HIS:HA	2:OG:409:VAL:HG12	1.98	0.45
3:OH:21:TRP:HZ3	3:OH:51:TYR:HE1	1.64	0.45
3:OH:224:ASP:O	3:OH:228:LEU:HG	2.16	0.45
2:OI:430:LYS:O	2:OI:433:GLU:HG2	2.16	0.45
19:P1:365:ARG:O	19:P1:365:ARG:HG3	2.16	0.45
19:P2:463:SER:O	19:P2:480:SER:OG	2.27	0.45
2:PE:414:GLU:HG2	2:PE:416:GLY:H	1.80	0.45
2:PG:68:VAL:HG12	2:PG:93:ILE:HB	1.98	0.45
2:PG:103:TYR:HB2	2:PG:186:ASN:HB2	1.98	0.45
2:PG:217:LEU:HD13	2:PG:277:SER:HA	1.99	0.45
2:PG:252:LEU:HA	2:PG:255:PHE:CD2	2.50	0.45
3:PH:229:VAL:O	3:PH:232:THR:OG1	2.26	0.45
3:PH:311:LEU:HB2	3:PH:370:ASN:O	2.17	0.45
2:PI:391:LEU:HD23	2:PI:391:LEU:HA	1.75	0.45
20:Q2:1451:TRP:CG	20:Q2:1452:ARG:N	2.85	0.45
2:QE:12:ALA:HB2	25:QE:501:GTP:H5''	1.99	0.45
2:QE:30:ILE:HG23	2:QE:36:MET:HE3	1.99	0.45
3:QF:151:LEU:O	3:QF:155:ILE:HG23	2.16	0.45
3:QF:187:LEU:O	3:QF:191:GLN:NE2	2.50	0.45
2:QG:387:ALA:O	2:QG:391:LEU:HG	2.17	0.45
3:QH:324:LYS:HE2	2:QI:222:PRO:HD2	1.98	0.45
2:QI:53:PHE:O	2:QI:64:ARG:NH1	2.46	0.45
2:RE:114:ILE:O	2:RE:118:VAL:HG23	2.17	0.45
2:RE:167:LEU:HD13	2:RE:200:CYS:HB2	1.98	0.45
2:RE:192:HIS:CE1	2:RE:193:THR:HG23	2.51	0.45
2:RE:328:VAL:O	2:RE:332:ILE:HG23	2.17	0.45
3:RJ:53:GLU:HB2	3:RJ:59:TYR:CD1	2.51	0.45
2:SE:263:PRO:O	2:SE:264:ARG:HB2	2.15	0.45
3:SH:103:LYS:HD2	3:SH:104:GLY:N	2.32	0.45
3:SH:249:ASP:O	3:SH:253:LEU:HG	2.16	0.45
3:SH:309:ARG:CZ	3:SH:340:TYR:HA	2.46	0.45
3:SJ:117:LEU:HA	3:SJ:120:VAL:HG12	1.97	0.45
3:SJ:228:LEU:O	3:SJ:232:THR:HG23	2.16	0.45
2:TI:333:ALA:O	2:TI:337:THR:HG23	2.17	0.45
3:TJ:392:LYS:HB2	3:TJ:392:LYS:HE3	1.71	0.45
3:UD:109:GLY:O	3:UD:113:VAL:HG22	2.16	0.45
2:UE:396:ASP:OD1	2:UE:397:LEU:N	2.48	0.45
3:UF:262:ARG:HE	3:UF:421:GLU:CD	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:270:PHE:CD2	3:UF:273:LEU:HD21	2.51	0.45
2:UG:16:ILE:HA	2:UG:228:ASN:HD21	1.80	0.45
2:UG:319:TYR:CE2	2:UG:328:VAL:HG22	2.50	0.45
2:UG:320:ARG:CZ	2:UG:360:PRO:HA	2.47	0.45
2:VE:16:ILE:HG13	2:VE:17:GLY:N	2.31	0.45
2:VG:3:GLU:H	2:VG:133:GLN:HE22	1.64	0.45
2:VG:90:GLU:N	2:VG:90:GLU:OE1	2.50	0.45
2:VG:200:CYS:HB3	2:VG:202:PHE:CZ	2.52	0.45
3:WF:101:TRP:CE3	3:WF:187:LEU:HD13	2.52	0.45
25:WF:501:GTP:O3G	25:WF:501:GTP:O3'	2.30	0.45
2:WG:9:VAL:HG11	2:WG:150:ALA:HB2	1.99	0.45
2:WG:330:ALA:O	2:WG:334:THR:HG23	2.17	0.45
2:WI:307:PRO:HB2	2:WI:312:TYR:OH	2.16	0.45
22:XC:97:LYS:O	22:XC:98:ASN:HB2	2.16	0.45
23:XK:178:LEU:CD1	23:XK:231:MET:HG3	2.47	0.45
23:XL:65:PHE:HB3	23:XL:67:ILE:CD1	2.46	0.45
24:YI:109:ASP:O	24:YI:111:SER:N	2.49	0.45
3:AH:229:VAL:HG22	3:AH:233:MET:HE3	1.98	0.45
3:AH:251:ARG:O	3:AH:255:VAL:HG22	2.17	0.45
4:B7:125:ASP:OD1	4:B7:126:ILE:N	2.49	0.45
4:B7:258:ARG:O	4:B7:262:GLU:HG2	2.17	0.45
2:BE:185:TYR:O	2:BE:189:LEU:HG	2.16	0.45
2:BE:221:ARG:NE	2:BE:221:ARG:HA	2.31	0.45
2:BE:260:VAL:HG23	2:BE:265:ILE:O	2.16	0.45
2:BE:389:ALA:HA	2:BE:392:ASP:OD2	2.17	0.45
2:BG:263:PRO:HB2	2:BG:264:ARG:NH1	2.32	0.45
2:BG:346:TRP:HA	3:BH:390:ARG:NH2	2.32	0.45
3:BH:189:VAL:HA	3:BH:192:LEU:HB2	1.97	0.45
2:BI:259:LEU:HD21	2:BI:316:CYS:HB2	1.99	0.45
2:BI:406:HIS:HA	2:BI:409:VAL:HG22	1.98	0.45
5:C3:141:HIS:ND1	5:C3:144:GLN:OE1	2.49	0.45
5:C3:394:LYS:O	5:C3:397:GLN:HG3	2.16	0.45
5:C8:467:TYR:O	5:C8:471:GLU:OE1	2.35	0.45
2:CG:219:ILE:HD13	11:H3:33:ASN:HB3	1.97	0.45
3:CH:217:LEU:HD11	3:CH:220:PRO:HB3	1.97	0.45
3:DD:165:ASN:HB3	3:DD:167:PHE:CZ	2.51	0.45
2:DE:171:ILE:O	2:DE:171:ILE:HG23	2.16	0.45
2:DE:326:LYS:HZ3	3:DF:211:CYS:HB3	1.81	0.45
2:DG:274:PRO:HG3	2:DG:374:ALA:HA	1.98	0.45
2:DG:346:TRP:CH2	3:DH:391:ARG:HD3	2.52	0.45
2:EE:219:ILE:HD11	11:H3:299:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:262:TYR:CE1	3:EF:393:ALA:HA	2.51	0.45
3:EF:117:LEU:HA	3:EF:120:VAL:HG12	1.98	0.45
2:EG:234:ILE:O	2:EG:237:SER:OG	2.24	0.45
2:EG:332:ILE:HD11	3:EH:175:VAL:HG11	1.99	0.45
8:F2:382:ILE:HD11	8:F2:434:LEU:HD21	1.98	0.45
8:F6:135:GLN:O	8:F6:138:THR:OG1	2.31	0.45
8:F6:289:THR:HG23	8:F7:409:ARG:HE	1.82	0.45
3:FD:149:THR:HG21	3:FD:188:SER:HA	1.98	0.45
3:FD:412:GLU:O	3:FD:416:ASN:ND2	2.49	0.45
2:FE:55:GLU:HB2	2:FE:61:HIS:CD2	2.52	0.45
2:FE:402:ARG:HG2	2:FE:405:VAL:HG11	1.98	0.45
3:FF:7:LEU:HD13	3:FF:64:VAL:HB	1.98	0.45
3:FF:113:VAL:HA	3:FF:116:VAL:HG22	1.97	0.45
3:FH:11:GLN:HG3	25:FH:501:GTP:PA	2.57	0.45
9:G2:85:PHE:CD2	2:MI:60:LYS:HE2	2.52	0.45
9:G2:381:LEU:HD11	9:G2:397:CYS:HB2	1.97	0.45
9:G2:392:ASP:HA	9:G2:395:GLN:OE1	2.17	0.45
10:G5:595:ILE:N	10:G5:598:GLU:OE2	2.41	0.45
3:GD:201:CYS:O	3:GD:301:ALA:HB1	2.16	0.45
3:GD:284:LEU:HD11	3:GD:362:LYS:HD3	1.99	0.45
3:GF:198:GLU:HG2	3:GF:266:PHE:CE2	2.52	0.45
2:GI:306:ASP:OD2	2:GI:309:HIS:N	2.48	0.45
11:H3:12:PRO:CB	11:H3:43:LEU:HD22	2.46	0.45
2:HE:315:CYS:O	2:HE:351:PHE:HA	2.16	0.45
3:HF:259:PRO:HA	2:HG:404:PHE:HE1	1.81	0.45
2:HG:5:ILE:HB	2:HG:135:PHE:HD1	1.81	0.45
2:HG:167:LEU:HD11	2:HG:202:PHE:CE2	2.52	0.45
2:HG:347:CYS:HB3	2:HG:349:THR:O	2.17	0.45
3:HH:3:GLU:HB2	3:HH:62:ARG:NH2	2.31	0.45
3:HH:100:ASN:OD1	3:HH:103:LYS:N	2.32	0.45
3:HH:213:ARG:HA	3:HH:213:ARG:HD3	1.77	0.45
3:IF:141:GLY:HA2	25:IF:501:GTP:O3G	2.17	0.45
3:IF:171:PRO:HB3	3:IF:181:GLU:CD	2.37	0.45
2:JE:408:TYR:O	2:JE:411:GLU:HG3	2.16	0.45
3:JF:139:LEU:N	3:JF:168:SER:OG	2.50	0.45
2:JG:107:HIS:HB3	2:JG:108:TYR:CD1	2.51	0.45
2:JG:266:HIS:C	2:JG:268:PRO:HD3	2.37	0.45
3:JH:86:ARG:NE	3:JH:86:ARG:HA	2.31	0.45
14:K2:373:VAL:O	14:K2:377:ILE:HG12	2.17	0.45
14:K2:406:GLY:HA3	14:K3:286:ILE:HD11	1.99	0.45
14:K3:244:ALA:O	14:K3:245:VAL:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:175:VAL:HG22	3:KD:177:ASP:H	1.81	0.45
3:KD:331:LEU:HD21	2:KE:177:VAL:HG22	1.98	0.45
2:KE:135:PHE:CE2	2:KE:157:LEU:HD13	2.51	0.45
2:KE:311:LYS:N	2:KE:382:THR:OG1	2.49	0.45
3:KF:62:ARG:NH1	3:KF:127:CYS:SG	2.89	0.45
3:KF:247:ASN:HB3	3:KF:252:LYS:HE2	1.99	0.45
2:KG:408:TYR:O	2:KG:411:GLU:HG3	2.17	0.45
3:KH:274:THR:O	3:KH:276:ARG:NH2	2.44	0.45
3:KH:356:ILE:HA	3:KH:357:PRO:HD3	1.82	0.45
2:KI:101:ASN:HA	2:KI:144:GLY:O	2.15	0.45
15:L3:38:ASP:O	15:L3:41:LYS:HG3	2.16	0.45
3:LD:118:ASP:HA	3:LD:121:ARG:HG2	1.99	0.45
3:LD:407:GLU:O	3:LD:410:GLU:HG2	2.16	0.45
2:LE:214:ARG:NH1	2:LE:215:ARG:HG3	2.31	0.45
3:LF:251:ARG:O	3:LF:255:VAL:HG22	2.17	0.45
3:LH:51:TYR:CD2	3:LH:59:TYR:HB3	2.51	0.45
3:LH:143:THR:HG22	3:LH:147:MET:CE	2.44	0.45
2:LI:394:LYS:O	2:LI:398:MET:HG3	2.16	0.45
3:MF:12:CYS:HA	25:MF:501:GTP:N2	2.32	0.45
3:MF:350:LYS:CE	2:MG:181:VAL:HG13	2.47	0.45
2:MG:161:TYR:HB3	2:MG:164:LYS:HZ1	1.82	0.45
2:MG:437:VAL:O	18:O2:55:ARG:HD3	2.16	0.45
3:MH:174:LYS:HD3	18:O2:14:TYR:CE1	2.52	0.45
2:MI:50:ASN:O	2:MI:64:ARG:NH1	2.42	0.45
2:MI:121:ARG:NH2	2:MI:124:LYS:HZ1	2.15	0.45
2:MI:229:ARG:HE	2:MI:363:VAL:HG11	1.82	0.45
3:ND:7:LEU:HB2	3:ND:134:GLN:O	2.16	0.45
2:NE:230:LEU:O	2:NE:234:ILE:HG12	2.17	0.45
2:NE:329:ASN:HA	2:NE:332:ILE:HG12	1.98	0.45
2:NG:18:ASN:O	2:NG:22:GLU:HG3	2.16	0.45
2:NG:174:ALA:HB1	2:NG:207:GLU:OE2	2.16	0.45
2:NI:333:ALA:O	2:NI:337:THR:HG23	2.16	0.45
2:NI:368:LEU:HD23	2:NI:368:LEU:H	1.81	0.45
2:OE:188:ILE:HG13	2:OE:189:LEU:N	2.30	0.45
3:OF:114:ASP:OD1	3:OF:115:SER:N	2.49	0.45
2:OG:46:ASP:OD1	2:OG:50:ASN:ND2	2.50	0.45
2:OG:257:THR:HA	3:OH:397:TRP:CZ2	2.50	0.45
2:OG:329:ASN:HA	2:OG:332:ILE:HG12	1.98	0.45
3:OH:41:ASP:O	3:OH:44:LEU:HB3	2.17	0.45
3:OH:173:PRO:HA	3:OH:380:ARG:CZ	2.47	0.45
2:OI:115:VAL:HA	2:OI:118:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:256:GLN:NE2	2:OI:257:THR:HG23	2.31	0.45
19:P1:58:ASN:HB3	19:P1:101:ARG:HD2	1.97	0.45
19:P1:59:PHE:O	19:P1:101:ARG:NH2	2.42	0.45
19:P1:469:VAL:HG13	19:P1:490:LEU:HD11	1.98	0.45
19:P1:567:HIS:HB3	19:P1:586:HIS:O	2.16	0.45
19:P1:601:TYR:CG	19:P1:613:ARG:HD3	2.52	0.45
19:P2:299:ARG:HB2	19:P2:306:PHE:CE1	2.52	0.45
19:P2:518:ILE:HG22	19:P2:528:TYR:CD1	2.52	0.45
2:PE:114:ILE:O	2:PE:118:VAL:HG13	2.17	0.45
3:PF:228:LEU:O	3:PF:232:THR:HG23	2.16	0.45
2:PG:31:GLN:HB2	2:PG:35:GLN:O	2.16	0.45
2:PI:285:GLN:NE2	2:PI:286:LEU:O	2.49	0.45
3:QH:87:PRO:HA	3:QH:90:PHE:CG	2.52	0.45
3:QH:112:LEU:O	3:QH:116:VAL:HG22	2.17	0.45
2:RG:318:LEU:HB3	2:RG:376:CYS:SG	2.57	0.45
3:RH:131:GLN:NE2	3:RH:240:LEU:HD11	2.32	0.45
3:RH:385:PHE:HA	3:RH:388:MET:HE3	1.99	0.45
2:RI:352:LYS:HA	3:RJ:177:ASP:OD1	2.15	0.45
3:RJ:189:VAL:HA	3:RJ:192:LEU:HB3	1.99	0.45
3:RJ:289:LEU:O	3:RJ:293:MET:HG2	2.17	0.45
2:SE:83:TYR:HB3	2:SE:86:LEU:HD12	1.99	0.45
2:SE:401:LYS:O	2:SE:401:LYS:HD3	2.16	0.45
3:SF:48:ASN:HA	3:SF:51:TYR:O	2.17	0.45
2:SG:270:ALA:HA	2:SG:377:MET:O	2.17	0.45
3:SH:255:VAL:HA	2:SI:407:TRP:NE1	2.31	0.45
2:SI:88:HIS:CE1	2:SI:90:GLU:HG2	2.46	0.45
2:SI:389:ALA:HA	2:SI:392:ASP:OD2	2.16	0.45
3:SJ:87:PRO:HA	3:SJ:90:PHE:CD2	2.51	0.45
3:SJ:217:LEU:HD23	3:SJ:219:THR:H	1.82	0.45
3:TF:260:PHE:HB2	3:TF:263:LEU:HD23	1.98	0.45
3:TF:408:PHE:O	3:TF:411:ALA:N	2.50	0.45
3:TH:229:VAL:O	3:TH:232:THR:OG1	2.26	0.45
3:TH:330:MET:HG3	3:TH:349:VAL:HG11	1.98	0.45
3:TH:357:PRO:HB3	3:TH:362:LYS:O	2.16	0.45
3:TH:395:LEU:HD23	3:TH:399:THR:HG23	1.97	0.45
3:TJ:20:PHE:CZ	3:TJ:24:ILE:HD11	2.52	0.45
3:TJ:30:ILE:HG13	3:TJ:36:TYR:CD1	2.51	0.45
3:TJ:260:PHE:HB3	3:TJ:262:ARG:CZ	2.47	0.45
3:UD:357:PRO:HB3	3:UD:362:LYS:O	2.16	0.45
3:UD:375:GLN:HA	3:UD:378:PHE:CZ	2.52	0.45
2:UE:146:GLY:N	25:UE:501:GTP:O2B	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:389:ALA:HA	2:UE:392:ASP:OD2	2.16	0.45
3:UF:299:MET:SD	3:UF:300:MET:N	2.89	0.45
3:VD:246:LEU:HB3	3:VD:353:VAL:H	1.82	0.45
3:VF:8:GLN:HE21	3:VF:13:GLY:HA3	1.80	0.45
3:VF:349:VAL:HG22	3:VF:351:THR:HG23	1.99	0.45
2:VG:327:ASP:OD1	2:VG:328:VAL:N	2.50	0.45
3:VH:77:ARG:HD3	3:VH:90:PHE:CE2	2.52	0.45
2:WE:263:PRO:O	2:WE:264:ARG:HB2	2.16	0.45
2:WE:272:TYR:CZ	2:WE:274:PRO:HG2	2.51	0.45
2:WG:207:GLU:HB2	2:WG:304:LYS:NZ	2.31	0.45
3:WH:3:GLU:OE2	3:WH:127:CYS:HB2	2.15	0.45
3:WH:28:HIS:O	3:WH:43:GLN:NE2	2.49	0.45
2:WI:311:LYS:NZ	2:WI:342:GLN:HB3	2.31	0.45
22:XD:24:ILE:HA	22:XD:63:ALA:HB2	1.98	0.45
22:XD:53:ASN:ND2	22:XD:56:THR:HG23	2.31	0.45
23:XJ:129:VAL:O	23:XJ:133:LEU:HG	2.16	0.45
23:XK:127:LEU:HB2	23:XK:128:PRO:HD3	1.98	0.45
24:YJ:135:GLY:O	24:YJ:138:VAL:HG22	2.17	0.45
24:YL:84:GLU:OE2	24:YL:101:LYS:NZ	2.39	0.45
24:YL:131:ARG:HD2	24:YL:131:ARG:N	2.32	0.45
2:AE:155:GLU:O	2:AE:159:VAL:HG13	2.17	0.45
2:AE:283:HIS:NE2	2:ME:89:PRO:HD3	2.32	0.45
3:AF:139:LEU:HD23	3:AF:168:SER:HG	1.82	0.45
3:AF:192:LEU:O	3:AF:196:THR:HB	2.17	0.45
3:AF:310:TYR:CD1	3:AF:371:SER:HB2	2.50	0.45
3:AH:19:LYS:O	3:AH:22:GLU:HG3	2.16	0.45
3:AH:46:ARG:HA	3:AH:46:ARG:HD3	1.63	0.45
4:B2:129:VAL:HG22	4:B3:12:TYR:CZ	2.52	0.45
4:B3:238:GLU:OE1	4:B3:239:LEU:HD22	2.17	0.45
4:B7:361:ASN:HD22	6:D9:236:THR:HG21	1.81	0.45
2:BE:3:GLU:H	2:BE:133:GLN:NE2	2.13	0.45
2:BE:419:SER:O	2:BE:422:ARG:HG2	2.15	0.45
5:C3:156:TRP:HA	5:C3:159:GLU:OE1	2.16	0.45
3:CF:197:ASP:OD1	3:CF:198:GLU:N	2.48	0.45
3:CF:233:MET:HA	3:CF:236:VAL:HG12	1.99	0.45
3:CF:271:ALA:HB1	3:CF:272:PRO:HD2	1.99	0.45
2:CG:189:LEU:HA	2:CG:192:HIS:ND1	2.32	0.45
3:CH:180:VAL:HG13	3:CH:184:ASN:OD1	2.17	0.45
3:CJ:2:ARG:HB3	3:CJ:131:GLN:OE1	2.17	0.45
3:CJ:423:GLN:OE1	3:CJ:426:GLN:NE2	2.49	0.45
2:DG:5:ILE:HB	2:DG:135:PHE:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DG:178:SER:OG	2:DG:180:ALA:O	2.35	0.45
2:DG:388:TRP:CD1	2:DG:425:LEU:HD11	2.51	0.45
3:DH:238:THR:HG21	3:DH:318:ARG:NH1	2.32	0.45
3:ED:11:GLN:HG3	25:ED:501:GTP:O5'	2.17	0.45
3:ED:86:ARG:HD2	3:FD:281:TYR:CZ	2.51	0.45
2:EE:273:ALA:HB3	2:EE:274:PRO:HD3	1.99	0.45
3:EH:387:ALA:HA	3:EH:390:ARG:HE	1.82	0.45
3:EH:416:ASN:O	3:EH:419:VAL:HB	2.16	0.45
8:F3:149:LEU:CD2	8:F3:261:GLN:HB2	2.46	0.45
8:F6:244:ARG:NH1	8:F6:247:GLN:HB3	2.32	0.45
8:F6:302:ASP:OD1	8:F6:305:ARG:NH2	2.47	0.45
8:F7:470:MET:HA	8:F7:470:MET:HE2	1.97	0.45
3:FF:269:GLY:HA2	3:FF:300:MET:HE1	1.99	0.45
2:FG:30:ILE:HA	2:FG:36:MET:HE1	1.98	0.45
2:FG:107:HIS:CE1	2:FG:152:LEU:HD12	2.52	0.45
2:FG:169:PHE:CE2	2:FG:235:VAL:HG12	2.52	0.45
3:FH:5:VAL:HG22	3:FH:62:ARG:HD2	1.98	0.45
3:FH:28:HIS:NE2	3:FH:241:ARG:HD3	2.31	0.45
9:G1:125:TYR:HB3	9:G1:127:GLU:CD	2.37	0.45
9:G1:262:TYR:CE1	9:G1:277:GLU:HG2	2.52	0.45
2:GE:9:VAL:HG13	2:GE:9:VAL:O	2.17	0.45
2:GI:89:PRO:HD2	2:HI:280:LYS:HZ2	1.81	0.45
11:H4:43:LEU:O	11:H4:46:PRO:HD3	2.17	0.45
2:HE:1:MET:HG3	2:HE:2:ARG:N	2.31	0.45
2:HG:71:GLU:OE1	2:HG:71:GLU:N	2.50	0.45
2:HG:315:CYS:O	2:HG:351:PHE:HA	2.17	0.45
2:HG:332:ILE:HA	2:HG:335:ILE:HG22	1.98	0.45
3:HH:378:PHE:HA	3:HH:381:ILE:HG12	1.99	0.45
2:HI:13:GLY:HA2	2:HI:16:ILE:HG12	1.98	0.45
3:IF:155:ILE:HA	3:IF:158:GLU:HB3	1.99	0.45
2:II:396:ASP:OD1	2:II:397:LEU:N	2.49	0.45
2:II:431:ASP:O	2:II:434:GLU:HG2	2.17	0.45
13:J2:23:GLN:OE1	13:J2:24:ILE:N	2.49	0.45
2:JE:184:PRO:HG3	2:JE:394:LYS:HZ2	1.81	0.45
2:JE:320:ARG:CZ	2:JE:360:PRO:HA	2.47	0.45
2:JG:5:ILE:HD13	2:JG:64:ARG:HB3	1.97	0.45
2:JG:30:ILE:HA	2:JG:36:MET:CE	2.47	0.45
2:JG:120:ASP:O	2:JG:123:ARG:HG3	2.16	0.45
2:JG:167:LEU:HD13	2:JG:200:CYS:HB2	1.98	0.45
3:JH:31:ASP:OD2	3:JH:33:THR:OG1	2.25	0.45
14:K3:264:TRP:C	14:K3:266:ASP:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K3:358:ARG:NH2	21:R2:132:LEU:HA	2.31	0.45
14:K3:390:ARG:NH1	14:K3:395:ARG:HH21	2.14	0.45
14:K4:265:VAL:HG22	14:K4:271:PRO:HA	1.99	0.45
3:KF:350:LYS:NZ	2:KG:181:VAL:HG13	2.30	0.45
2:KG:18:ASN:O	2:KG:22:GLU:HG3	2.17	0.45
2:KG:209:ILE:HG21	2:KG:227:LEU:HG	1.98	0.45
3:KH:68:LEU:HA	3:KH:93:GLY:HA3	1.98	0.45
3:KH:255:VAL:HG21	2:KI:100:ALA:HB1	1.98	0.45
2:KI:76:ASP:O	2:KI:80:THR:HG23	2.16	0.45
2:KI:264:ARG:O	2:KI:266:HIS:ND1	2.23	0.45
2:KI:415:GLU:OE1	2:KI:415:GLU:N	2.50	0.45
15:L2:124:ILE:HA	15:L2:136:LEU:HB3	1.98	0.45
3:LD:235:GLY:HA3	3:LD:366:THR:HG21	1.99	0.45
2:LE:32:PRO:HA	2:LE:86:LEU:HD11	1.99	0.45
2:LG:390:ARG:HD3	2:LG:393:HIS:NE2	2.32	0.45
2:LG:406:HIS:HA	2:LG:409:VAL:HG22	1.98	0.45
3:LH:21:TRP:CE3	3:LH:61:PRO:HB3	2.52	0.45
3:LH:249:ASP:O	3:LH:253:LEU:HG	2.17	0.45
2:LI:115:VAL:HA	2:LI:118:VAL:HG22	1.98	0.45
2:LI:306:ASP:OD2	2:LI:309:HIS:N	2.46	0.45
3:MF:32:PRO:HG3	3:MF:81:PHE:CZ	2.52	0.45
2:MG:424:ASP:O	2:MG:428:LEU:HD23	2.16	0.45
3:MH:15:GLN:HG2	3:MH:222:TYR:HE2	1.81	0.45
17:N2:142:GLN:CD	2:WE:225:THR:HG21	2.36	0.45
2:NE:120:ASP:HA	2:NE:123:ARG:HG2	1.99	0.45
2:NE:169:PHE:CE1	2:NE:202:PHE:CD2	3.05	0.45
2:NE:352:LYS:NZ	3:NF:178:THR:OG1	2.49	0.45
2:NE:419:SER:O	2:NE:423:GLU:HG3	2.15	0.45
2:NG:3:GLU:CD	2:NG:131:GLY:H	2.20	0.45
2:NG:180:ALA:HB3	2:NG:183:GLU:HB2	1.99	0.45
3:NH:406:MET:O	3:NH:410:GLU:OE1	2.34	0.45
2:NI:12:ALA:HB1	25:NI:501:GTP:C6	2.51	0.45
2:NI:23:LEU:O	2:NI:26:LEU:HB2	2.16	0.45
2:NI:82:THR:O	2:NI:85:GLN:NE2	2.46	0.45
2:NI:88:HIS:HD2	2:OI:284:GLU:OE2	2.00	0.45
2:OE:121:ARG:O	2:OE:125:LEU:HD23	2.16	0.45
2:OE:333:ALA:O	2:OE:337:THR:HG23	2.16	0.45
3:OF:117:LEU:HB3	3:OF:121:ARG:NH2	2.32	0.45
3:OF:180:VAL:O	3:OF:183:TYR:HB2	2.17	0.45
3:OF:201:CYS:SG	3:OF:265:PHE:HB3	2.57	0.45
2:OG:1:MET:O	2:OG:131:GLY:HA3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:170:ALA:HB3	2:OG:203:MET:HE1	1.98	0.45
3:OH:58:LYS:HE2	3:PH:281:TYR:HE1	1.80	0.45
19:P1:37:GLU:C	19:P1:52:ILE:HG13	2.37	0.45
19:P1:391:SER:O	19:P1:398:ILE:HG23	2.17	0.45
19:P2:166:PHE:HA	19:P2:174:PHE:HB3	1.99	0.45
19:P2:220:PHE:HE1	19:P2:234:PRO:HB3	1.82	0.45
2:PE:117:LEU:O	2:PE:121:ARG:HG2	2.16	0.45
3:PF:309:ARG:H	3:PF:372:THR:HG1	1.61	0.45
2:PG:326:LYS:HE2	3:PH:219:THR:HA	1.99	0.45
3:PH:273:LEU:H	3:PH:292:GLN:NE2	2.09	0.45
2:PI:90:GLU:HG2	2:PI:121:ARG:NH2	2.32	0.45
20:Q1:1417:ARG:CZ	20:Q1:1419:ARG:HB2	2.46	0.45
20:Q1:1457:SER:HA	20:Q1:1460:THR:OG1	2.16	0.45
2:QE:262:TYR:OH	3:QF:391:ARG:O	2.35	0.45
3:QH:41:ASP:O	3:QH:44:LEU:HB3	2.17	0.45
2:QI:105:ARG:O	2:QI:109:THR:OG1	2.23	0.45
2:QI:224:TYR:CE1	25:QI:501:GTP:C6	3.05	0.45
2:QI:279:GLU:OE2	2:QI:280:LYS:HG2	2.16	0.45
2:RE:88:HIS:HB3	2:RE:91:GLN:CG	2.47	0.45
2:RE:251:ASP:HB3	2:RE:254:GLU:OE1	2.16	0.45
2:RE:330:ALA:O	2:RE:334:THR:HG23	2.16	0.45
3:RF:390:ARG:HA	3:RF:390:ARG:HD3	1.64	0.45
3:RH:257:MET:O	3:RH:259:PRO:HD3	2.17	0.45
2:RI:236:SER:C	2:RI:243:ARG:HH22	2.13	0.45
2:RI:252:LEU:HD12	2:RI:253:THR:N	2.32	0.45
3:SF:20:PHE:CZ	3:SF:24:ILE:HD11	2.52	0.45
3:SF:322:SER:OG	3:SF:323:MET:N	2.50	0.45
2:SG:228:ASN:HA	2:SG:231:ILE:HG12	1.98	0.45
3:SJ:74:ASP:O	3:SJ:77:ARG:HG3	2.17	0.45
3:TF:39:ASP:OD1	3:TF:39:ASP:N	2.50	0.45
3:TF:61:PRO:HD3	3:TF:84:ILE:HG13	1.98	0.45
2:TG:11:GLN:HG3	25:TG:501:GTP:O1B	2.17	0.45
2:TI:234:ILE:CD1	2:TI:272:TYR:HB2	2.46	0.45
2:TI:331:ALA:O	2:TI:334:THR:OG1	2.26	0.45
3:TJ:46:ARG:HA	3:TJ:46:ARG:HD3	1.79	0.45
3:TJ:103:LYS:O	3:TJ:108:GLU:N	2.37	0.45
2:UE:351:PHE:HE2	3:UF:175:VAL:HG23	1.82	0.45
2:UG:36:MET:HB3	2:UG:39:ASP:OD1	2.17	0.45
3:VD:2:ARG:HG2	3:VD:131:GLN:CD	2.37	0.45
3:VD:286:VAL:HA	3:VD:289:LEU:HB2	1.98	0.45
3:VD:331:LEU:HD11	2:VE:176:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:17:GLY:O	2:VE:21:TRP:CD1	2.69	0.45
3:VF:28:HIS:O	3:VF:36:TYR:HE1	2.00	0.45
2:VG:1:MET:N	2:VG:130:THR:OG1	2.50	0.45
2:VG:334:THR:O	2:VG:337:THR:OG1	2.26	0.45
3:VH:86:ARG:HA	3:VH:86:ARG:NE	2.32	0.45
3:VH:350:LYS:HA	3:VH:350:LYS:HD3	1.81	0.45
2:WE:3:GLU:CD	2:WE:131:GLY:H	2.20	0.45
2:WE:89:PRO:HB2	2:WE:90:GLU:OE1	2.16	0.45
3:WF:20:PHE:CE1	3:WF:233:MET:HG3	2.52	0.45
3:WF:203:ASP:O	3:WF:207:LEU:HG	2.17	0.45
3:WF:207:LEU:HD13	3:WF:225:LEU:HD23	1.99	0.45
2:WI:323:VAL:HG12	2:WI:324:VAL:N	2.32	0.45
2:WI:331:ALA:O	2:WI:334:THR:OG1	2.30	0.45
2:WI:383:ALA:O	2:WI:386:GLU:HG3	2.17	0.45
23:XK:229:LYS:HZ2	23:XK:235:TYR:HB3	1.81	0.45
1:A2:170:ASN:HA	1:A2:173:LYS:HZ3	1.81	0.45
2:AE:6:SER:OG	2:AE:8:HIS:NE2	2.50	0.45
2:AG:205:ASP:O	2:AG:209:ILE:HG12	2.17	0.45
2:AG:234:ILE:O	2:AG:238:ILE:HG23	2.17	0.45
3:AH:31:ASP:OD1	3:AH:35:THR:N	2.49	0.45
3:AH:174:LYS:HA	3:AH:174:LYS:HD3	1.71	0.45
4:B7:94:GLN:HA	4:B7:97:GLU:OE1	2.16	0.45
2:BE:16:ILE:HG22	2:BE:228:ASN:CG	2.36	0.45
2:BE:351:PHE:O	3:BF:177:ASP:HA	2.17	0.45
3:BF:375:GLN:HE21	3:BF:422:TYR:HB3	1.82	0.45
2:BG:213:CYS:O	2:BG:218:ASP:N	2.48	0.45
2:BI:211:ASP:O	2:BI:215:ARG:HB2	2.17	0.45
2:BI:220:GLU:HG2	2:BI:221:ARG:HE	1.82	0.45
3:CH:47:ILE:HG22	11:H4:224:PHE:HZ	1.79	0.45
3:CJ:105:HIS:O	3:CJ:150:LEU:HD21	2.17	0.45
3:CJ:266:PHE:HB2	3:CJ:368:ILE:HD11	1.99	0.45
6:D3:322:LEU:HD13	6:D3:412:LEU:HD22	1.98	0.45
3:DD:344:TRP:CE2	2:DE:401:LYS:HD3	2.51	0.45
3:DD:350:LYS:HZ3	2:DE:181:VAL:HG13	1.82	0.45
3:DF:21:TRP:CZ3	3:DF:61:PRO:HB3	2.51	0.45
3:DF:25:SER:O	3:DF:30:ILE:HD12	2.17	0.45
3:DH:6:HIS:CE1	3:DH:8:GLN:HB2	2.51	0.45
7:E2:105:LEU:HG	7:E2:106:PRO:HD2	1.99	0.45
3:ED:130:LEU:O	3:ED:162:ARG:NH1	2.50	0.45
3:ED:249:ASP:O	3:ED:252:LYS:HB3	2.16	0.45
3:EH:114:ASP:OD1	3:EH:115:SER:N	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:12:CYS:HB3	25:FD:501:GTP:H5'	1.99	0.45
2:FE:102:ASN:OD1	2:FE:104:ALA:N	2.45	0.45
2:FE:325:PRO:HA	2:FE:328:VAL:HG22	1.97	0.45
3:FF:318:ARG:NH1	3:FF:358:PRO:HG3	2.31	0.45
3:FF:325:GLU:HB3	2:FG:221:ARG:NH1	2.32	0.45
2:FG:25:CYS:HB2	2:FG:30:ILE:HB	1.98	0.45
2:FG:246:GLY:HA2	2:FG:357:TYR:HD2	1.82	0.45
2:FG:426:ALA:C	2:FG:430:LYS:HZ2	2.20	0.45
10:G5:631:ILE:C	10:G5:633:GLU:H	2.19	0.45
3:GD:269:GLY:HA3	3:GD:367:PHE:HD2	1.81	0.45
2:GE:262:TYR:CD2	2:GE:263:PRO:HD2	2.52	0.45
2:GG:351:PHE:HZ	3:GH:175:VAL:HB	1.79	0.45
2:GI:401:LYS:C	2:GI:402:ARG:HD3	2.37	0.45
3:HD:12:CYS:HB3	25:HD:501:GTP:O4'	2.16	0.45
2:HE:395:PHE:HA	2:HE:398:MET:SD	2.57	0.45
3:HF:86:ARG:NE	3:HF:86:ARG:HA	2.31	0.45
3:HH:390:ARG:HH12	3:HH:391:ARG:HB2	1.82	0.45
2:HI:52:PHE:HE2	2:HI:243:ARG:HH11	1.63	0.45
2:HI:101:ASN:HB3	2:HI:182:VAL:HG11	1.98	0.45
3:IH:218:THR:OG1	3:IH:219:THR:N	2.50	0.45
2:II:5:ILE:HB	2:II:135:PHE:CD1	2.49	0.45
13:J3:75:ALA:HB3	13:J3:77:ASN:ND2	2.32	0.45
3:JD:4:ILE:HB	3:JD:50:TYR:HE1	1.81	0.45
3:JD:357:PRO:HB3	3:JD:362:LYS:O	2.16	0.45
2:JE:145:THR:OG1	25:JE:501:GTP:O1B	2.30	0.45
3:JF:267:MET:O	3:JF:368:ILE:HD12	2.16	0.45
3:JF:271:ALA:HB2	3:JF:365:ALA:O	2.17	0.45
3:JF:378:PHE:HA	3:JF:381:ILE:HG22	1.99	0.45
3:JH:198:GLU:HA	3:JH:266:PHE:HE2	1.80	0.45
14:K2:389:ALA:H	2:KE:163:LYS:HZ2	1.64	0.45
14:K2:448:ASN:HA	14:K2:451:LYS:HG2	1.99	0.45
14:K3:164:ARG:HD2	14:K3:321:ILE:HG21	1.98	0.45
2:KE:125:LEU:O	2:KE:128:LEU:HG	2.16	0.45
2:KE:345:ASP:N	2:KE:345:ASP:OD1	2.48	0.45
2:KG:217:LEU:HD21	2:KG:275:VAL:HB	1.98	0.45
3:KH:15:GLN:HB2	25:KH:501:GTP:N2	2.31	0.45
3:KH:418:LEU:HD12	3:KH:422:TYR:CE2	2.52	0.45
2:KI:96:LYS:HA	2:KI:96:LYS:HD3	1.76	0.45
15:L2:227:LYS:O	15:L2:230:LEU:N	2.50	0.45
15:L3:77:LYS:O	15:L3:78:PHE:HB3	2.17	0.45
3:LD:344:TRP:NE1	2:LE:401:LYS:HD3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:35:GLN:HG3	2:LG:36:MET:O	2.17	0.45
3:LH:3:GLU:OE1	3:LH:3:GLU:N	2.50	0.45
3:LH:47:ILE:HD11	3:LH:51:TYR:CD2	2.52	0.45
2:LI:252:LEU:HA	2:LI:255:PHE:CD2	2.52	0.45
16:M2:79:ILE:HG13	16:M2:80:TYR:N	2.27	0.45
2:ME:404:PHE:HB3	2:ME:407:TRP:HD1	1.82	0.45
3:MF:39:ASP:OD1	3:MF:39:ASP:N	2.50	0.45
2:MI:68:VAL:HG12	2:MI:93:ILE:HD13	1.99	0.45
2:MI:99:ALA:H	2:MI:145:THR:CG2	2.29	0.45
3:ND:324:LYS:HD3	2:NE:210:TYR:HE1	1.82	0.45
3:NF:347:ASN:OD1	2:NG:394:LYS:NZ	2.50	0.45
2:NG:51:THR:HG23	2:NG:52:PHE:CD2	2.52	0.45
2:NG:324:VAL:HG21	3:NH:219:THR:HG22	1.98	0.45
2:NI:196:GLU:OE1	2:NI:196:GLU:N	2.42	0.45
2:NI:216:ASN:OD1	2:NI:217:LEU:N	2.50	0.45
2:NI:298:PRO:HB3	2:NI:307:PRO:HG3	1.99	0.45
2:NI:392:ASP:HB2	2:NI:422:ARG:NH2	2.32	0.45
18:O1:89:ALA:O	18:O1:93:THR:HG23	2.16	0.45
3:OD:309:ARG:O	3:OD:371:SER:OG	2.32	0.45
3:OD:378:PHE:HA	3:OD:381:ILE:HG22	1.97	0.45
2:OE:53:PHE:HB3	2:OE:61:HIS:HB3	1.98	0.45
3:OF:378:PHE:CD1	3:OF:419:VAL:HG22	2.51	0.45
2:OG:21:TRP:CD1	2:OG:67:PHE:HZ	2.35	0.45
2:OG:214:ARG:HB2	2:OG:220:GLU:HG3	1.97	0.45
2:OG:263:PRO:HD3	3:OH:396:HIS:CD2	2.52	0.45
3:OH:252:LYS:CD	2:OI:100:ALA:HA	2.46	0.45
3:OH:313:VAL:HG23	3:OH:349:VAL:HA	1.99	0.45
3:OH:378:PHE:CD1	3:OH:419:VAL:HG22	2.52	0.45
2:OI:141:PHE:HB3	2:OI:187:SER:HB2	1.98	0.45
19:P1:561:VAL:HG21	19:P1:602:ILE:HG21	1.98	0.45
19:P2:344:THR:O	19:P2:597:PRO:HD2	2.17	0.45
19:P2:548:ILE:HG21	19:P2:562:THR:HB	1.97	0.45
2:PE:69:ASP:OD1	2:PE:70:LEU:N	2.50	0.45
2:PE:404:PHE:HB3	2:PE:407:TRP:HD1	1.82	0.45
3:PF:114:ASP:N	3:PF:114:ASP:OD1	2.49	0.45
3:PH:286:VAL:HG11	3:PH:325:GLU:HB2	1.98	0.45
20:Q2:1439:ALA:O	20:Q2:1443:ILE:HG12	2.17	0.45
2:QE:74:VAL:O	2:QE:77:GLU:HG2	2.17	0.45
2:QE:258:ASN:HD21	3:QF:179:VAL:H	1.65	0.45
2:QE:263:PRO:HD3	3:QF:396:HIS:CD2	2.52	0.45
2:QE:396:ASP:OD1	2:QE:397:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:21:TRP:CE3	3:QF:24:ILE:HD12	2.52	0.45
3:QF:134:GLN:HA	3:QF:165:ASN:O	2.16	0.45
3:QF:238:THR:HG22	3:QF:241:ARG:HH21	1.81	0.45
3:QF:252:LYS:HE2	2:QG:98:ASP:OD1	2.17	0.45
2:QG:55:GLU:HB2	2:QG:61:HIS:CD2	2.52	0.45
2:QG:155:GLU:O	2:QG:159:VAL:HG13	2.17	0.45
2:QG:174:ALA:HB3	2:QG:177:VAL:O	2.17	0.45
3:QH:213:ARG:O	3:QH:216:LYS:HE2	2.17	0.45
21:R2:120:TYR:O	21:R2:123:MET:HG3	2.17	0.45
2:RE:186:ASN:OD1	2:RE:187:SER:N	2.50	0.45
2:RE:242:LEU:HD12	2:RE:242:LEU:H	1.81	0.45
2:RE:363:VAL:HG12	2:RE:368:LEU:HD22	1.98	0.45
3:RF:131:GLN:HB3	3:RF:163:ILE:HD12	1.98	0.45
3:RF:143:THR:HG22	3:RF:147:MET:CE	2.47	0.45
3:RH:5:VAL:O	3:RH:133:PHE:HA	2.16	0.45
3:RH:211:CYS:SG	3:RH:220:PRO:HG3	2.57	0.45
2:RI:306:ASP:OD2	2:RI:308:ARG:HB2	2.17	0.45
3:RJ:21:TRP:HA	3:RJ:24:ILE:HD12	1.98	0.45
3:SF:106:TYR:HB2	3:SF:401:GLU:OE2	2.17	0.45
3:SH:31:ASP:OD2	3:SH:33:THR:OG1	2.34	0.45
3:SH:331:LEU:HD21	2:SI:177:VAL:HG22	1.98	0.45
2:SI:287:SER:HA	2:SI:373:ARG:CZ	2.46	0.45
2:SI:397:LEU:O	2:SI:401:LYS:HG2	2.17	0.45
3:SJ:211:CYS:SG	3:SJ:220:PRO:HG3	2.57	0.45
2:TG:33:ASP:OD1	2:TG:34:GLY:N	2.50	0.45
3:TH:414:ASN:O	3:TH:418:LEU:HG	2.16	0.45
2:TI:89:PRO:HD2	2:UG:280:LYS:HZ3	1.82	0.45
2:TI:255:PHE:O	2:TI:259:LEU:HD23	2.16	0.45
3:UD:19:LYS:O	3:UD:22:GLU:HG3	2.16	0.45
3:UD:43:GLN:HB3	3:UD:242:PHE:CE1	2.50	0.45
3:UD:119:VAL:HA	3:UD:122:LYS:HE2	1.98	0.45
3:UD:121:ARG:HH21	3:VD:336:LYS:NZ	2.14	0.45
3:UD:182:PRO:HA	3:UD:381:ILE:HD11	1.99	0.45
2:UE:104:ALA:HB1	2:UE:413:MET:HE3	1.98	0.45
3:UF:256:ASN:OD1	3:UF:350:LYS:HD2	2.17	0.45
3:UF:344:TRP:HA	2:UG:401:LYS:NZ	2.30	0.45
3:UH:25:SER:HA	3:UH:30:ILE:HD13	1.99	0.45
3:UH:217:LEU:HD11	3:UH:220:PRO:HB3	1.99	0.45
3:UH:224:ASP:O	3:UH:227:HIS:HB3	2.17	0.45
2:VE:324:VAL:HB	2:VE:326:LYS:HE2	1.99	0.45
3:VF:118:ASP:HA	3:VF:121:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:204:ASN:HA	3:VF:207:LEU:HD12	1.98	0.45
3:VF:421:GLU:O	3:VF:424:GLN:NE2	2.50	0.45
2:WE:238:ILE:HD11	2:WE:255:PHE:CE2	2.51	0.45
2:WE:264:ARG:O	2:WE:266:HIS:ND1	2.49	0.45
2:WE:320:ARG:HH21	2:WE:358:GLN:HG3	1.81	0.45
2:WE:320:ARG:CZ	2:WE:360:PRO:HA	2.47	0.45
2:WE:326:LYS:NZ	3:WF:219:THR:HA	2.28	0.45
2:WG:352:LYS:NZ	3:WH:178:THR:HA	2.32	0.45
3:WH:6:HIS:HE1	3:WH:8:GLN:HB2	1.81	0.45
22:XC:68:THR:OG1	22:XC:69:LEU:N	2.49	0.45
22:XC:74:PRO:O	22:XC:135:ASN:HA	2.17	0.45
22:XD:90:GLU:HA	22:XD:103:PHE:O	2.17	0.45
22:XE:14:LEU:HB3	22:XE:165:VAL:HB	1.99	0.45
23:XJ:145:ASN:HB3	23:XJ:148:ILE:HD12	1.97	0.45
24:YK:14:LYS:NZ	24:YK:72:ILE:HG21	2.32	0.45
24:YM:92:VAL:O	24:YM:96:LEU:HG	2.17	0.45
1:A2:290:ALA:O	1:A2:293:GLU:HG3	2.17	0.45
2:AE:390:ARG:HA	2:AE:393:HIS:NE2	2.32	0.45
3:AF:150:LEU:O	3:AF:154:LYS:HG3	2.17	0.45
3:AF:409:THR:O	3:AF:412:GLU:HG3	2.16	0.45
2:AG:107:HIS:CE1	2:AG:152:LEU:HD12	2.52	0.45
2:AG:258:ASN:OD1	3:AH:179:VAL:HG22	2.17	0.45
2:AG:389:ALA:O	2:AG:393:HIS:CD2	2.70	0.45
2:AG:392:ASP:OD1	2:AG:393:HIS:N	2.50	0.45
2:AI:320:ARG:HG2	2:AI:358:GLN:O	2.16	0.45
4:B3:45:LEU:HD12	4:B3:45:LEU:HA	1.70	0.45
4:B8:258:ARG:O	4:B8:262:GLU:HG2	2.16	0.45
4:B8:299:ARG:HA	4:B8:302:GLU:CD	2.37	0.45
2:BE:425:LEU:O	2:BE:428:LEU:N	2.50	0.45
3:BF:342:VAL:HB	3:BF:344:TRP:CE3	2.51	0.45
2:BG:225:THR:C	2:BG:229:ARG:HE	2.19	0.45
2:BG:368:LEU:H	2:BG:368:LEU:HD23	1.81	0.45
3:BH:138:SER:HA	3:BH:169:VAL:HG12	1.99	0.45
2:BI:263:PRO:HB2	2:BI:264:ARG:NH1	2.32	0.45
5:C3:186:ILE:O	5:C3:189:GLU:HB3	2.17	0.45
3:CH:25:SER:HA	3:CH:30:ILE:HD13	1.99	0.45
2:CI:54:SER:OG	2:CI:64:ARG:NH2	2.50	0.45
2:CI:144:GLY:N	25:CI:501:GTP:O2B	2.43	0.45
3:CJ:207:LEU:HD13	3:CJ:225:LEU:HG	1.98	0.45
6:D7:319:GLN:HA	6:D7:322:LEU:HG	1.98	0.45
6:D8:363:ARG:NE	6:D8:368:LEU:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:142:GLY:O	25:DE:501:GTP:H4'	2.17	0.45
3:DF:12:CYS:SG	25:DF:501:GTP:H5'	2.56	0.45
2:DG:5:ILE:O	2:DG:135:PHE:HA	2.17	0.45
2:DG:145:THR:OG1	25:DG:501:GTP:O1B	2.34	0.45
2:DG:156:ARG:HA	2:DG:159:VAL:HG22	1.99	0.45
2:DG:353:VAL:N	3:DH:177:ASP:OD1	2.38	0.45
3:ED:216:LYS:HB2	3:ED:276:ARG:NH1	2.31	0.45
3:ED:249:ASP:OD2	3:ED:251:ARG:HB3	2.16	0.45
2:EE:264:ARG:HB2	2:EE:264:ARG:NH1	2.31	0.45
2:EE:280:LYS:O	2:EE:284:GLU:HB2	2.16	0.45
3:EF:155:ILE:HA	3:EF:158:GLU:HB2	1.99	0.45
2:EG:101:ASN:OD1	2:EG:144:GLY:HA2	2.17	0.45
2:EG:257:THR:HA	3:EH:397:TRP:NE1	2.31	0.45
9:G1:5:PRO:C	9:G1:7:HIS:H	2.20	0.45
9:G2:405:PRO:HG2	9:G2:407:LYS:NZ	2.32	0.45
3:GD:8:GLN:HB3	3:GD:65:LEU:HA	1.99	0.45
3:GD:40:SER:O	3:GD:43:GLN:HG2	2.17	0.45
3:GD:41:ASP:N	3:GD:41:ASP:OD1	2.50	0.45
3:GD:254:ALA:O	3:GD:258:VAL:HG12	2.16	0.45
2:GE:51:THR:HG23	2:GE:52:PHE:CD2	2.52	0.45
2:GE:392:ASP:HB3	2:GE:425:LEU:HD23	1.98	0.45
3:GF:158:GLU:N	3:GF:158:GLU:OE1	2.48	0.45
3:GF:322:SER:CB	3:GF:324:LYS:HZ1	2.30	0.45
3:GF:378:PHE:HA	3:GF:381:ILE:HG12	1.99	0.45
2:GG:30:ILE:HA	2:GG:36:MET:CE	2.47	0.45
2:GI:168:GLU:HG2	2:GI:201:ALA:HA	1.98	0.45
11:H4:298:LEU:HG	11:H4:299:THR:H	1.82	0.45
3:HD:426:GLN:NE2	3:HD:427:ASP:OD1	2.49	0.45
2:HE:220:GLU:OE1	2:HE:220:GLU:N	2.38	0.45
3:HF:47:ILE:HD11	3:HF:51:TYR:CD2	2.52	0.45
3:HF:330:MET:SD	3:HF:349:VAL:HG21	2.56	0.45
2:HG:288:VAL:HA	2:HG:291:ILE:HG12	1.98	0.45
3:HH:36:TYR:CZ	3:HH:38:GLY:HA2	2.52	0.45
2:HI:297:GLU:OE1	2:HI:300:ASN:N	2.49	0.45
2:HI:333:ALA:O	2:HI:337:THR:HG23	2.15	0.45
12:I3:54:ASN:HA	12:I3:57:LEU:HB2	1.97	0.45
2:IG:388:TRP:CD1	2:IG:425:LEU:HD11	2.52	0.45
3:IH:233:MET:O	3:IH:236:VAL:HG12	2.17	0.45
3:JD:261:PRO:HD3	2:JE:406:HIS:CD2	2.51	0.45
2:JE:11:GLN:HG3	25:JE:501:GTP:O1B	2.17	0.45
3:JF:271:ALA:HB1	3:JF:272:PRO:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:58:LYS:HE2	3:KH:281:TYR:HE1	1.82	0.45
3:JH:190:HIS:HD2	3:JH:191:GLN:OE1	2.00	0.45
14:K3:35:LEU:HD12	14:K3:36:THR:N	2.31	0.45
14:K3:153:LEU:HA	14:K3:156:ARG:NH2	2.31	0.45
2:KE:306:ASP:HB3	2:KE:309:HIS:ND1	2.32	0.45
15:L3:87:ALA:HA	2:LI:264:ARG:HH12	1.82	0.45
2:LE:268:PRO:HG3	2:LE:380:ASN:ND2	2.29	0.45
2:LG:346:TRP:CD1	2:LG:346:TRP:N	2.84	0.45
3:LH:2:ARG:HA	3:LH:129:CYS:O	2.17	0.45
2:LI:213:CYS:SG	2:LI:222:PRO:HG3	2.57	0.45
16:M2:98:HIS:O	16:M2:98:HIS:ND1	2.49	0.45
2:ME:229:ARG:NH2	2:ME:368:LEU:HD13	2.31	0.45
3:MF:20:PHE:CZ	3:MF:24:ILE:HD11	2.52	0.45
3:MF:324:LYS:HE2	2:MG:222:PRO:CD	2.47	0.45
2:MG:36:MET:HE3	2:MG:37:PRO:HD2	1.97	0.45
2:MG:216:ASN:ND2	2:MG:275:VAL:O	2.49	0.45
2:MG:224:TYR:CE2	25:MG:501:GTP:O6	2.68	0.45
3:MH:349:VAL:C	3:MH:350:LYS:HZ2	2.12	0.45
3:MH:409:THR:HG1	20:Q2:1419:ARG:HH12	1.60	0.45
2:MI:236:SER:HA	2:MI:243:ARG:HH12	1.82	0.45
2:NE:172:TYR:HB2	2:NE:203:MET:HB2	1.99	0.45
2:NG:70:LEU:HB3	2:NG:97:GLU:O	2.16	0.45
2:NG:279:GLU:OE2	2:NG:280:LYS:HG3	2.17	0.45
3:NH:91:VAL:HG21	3:NH:116:VAL:HG12	1.99	0.45
2:NI:111:GLY:HA3	2:NI:152:LEU:HD23	1.97	0.45
3:OD:371:SER:HG	3:OD:372:THR:H	1.64	0.45
2:OE:145:THR:HG1	25:OE:501:GTP:PB	2.39	0.45
2:OE:306:ASP:OD2	2:OE:309:HIS:N	2.50	0.45
2:OE:320:ARG:NH2	2:OE:360:PRO:HA	2.31	0.45
3:OF:48:ASN:O	3:OF:62:ARG:NH2	2.30	0.45
2:OG:234:ILE:HD11	2:OG:272:TYR:HB2	1.99	0.45
3:OH:3:GLU:HB2	3:OH:62:ARG:NH2	2.32	0.45
3:OH:3:GLU:O	3:OH:130:LEU:HD12	2.16	0.45
3:OH:100:ASN:HB3	3:OH:103:LYS:HB2	1.98	0.45
3:OH:419:VAL:HG12	3:OH:423:GLN:NE2	2.32	0.45
2:OI:414:GLU:N	2:OI:414:GLU:OE1	2.50	0.45
19:P2:431:ARG:HH12	19:P2:490:LEU:HD11	1.82	0.45
2:PE:311:LYS:N	2:PE:382:THR:OG1	2.49	0.45
3:PH:5:VAL:HG22	3:PH:62:ARG:HB3	1.99	0.45
2:QE:297:GLU:HG2	2:QE:298:PRO:HD2	1.99	0.45
3:QF:41:ASP:HB3	24:YI:20:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:378:PHE:HA	3:QF:381:ILE:HG22	1.99	0.45
2:QG:119:LEU:HA	2:QG:122:ILE:HD12	1.99	0.45
2:QG:209:ILE:CG2	2:QG:227:LEU:HG	2.45	0.45
3:QH:141:GLY:O	3:QH:145:SER:OG	2.18	0.45
21:R2:116:LEU:HD13	21:R2:150:ASN:HA	1.99	0.45
21:R2:122:ALA:HB1	21:R2:147:ILE:HG21	1.98	0.45
2:RE:362:VAL:HA	2:RE:368:LEU:HD11	1.99	0.45
3:RF:46:ARG:HH22	3:RF:243:PRO:HB3	1.82	0.45
3:RF:275:SER:N	3:RF:278:SER:OG	2.48	0.45
2:RG:33:ASP:OD1	2:RG:34:GLY:N	2.49	0.45
2:RG:136:LEU:HG	2:RG:169:PHE:CE2	2.51	0.45
3:RH:3:GLU:HG2	3:RH:130:LEU:HD13	1.99	0.45
2:RI:202:PHE:HD1	2:RI:268:PRO:HD2	1.80	0.45
3:RJ:31:ASP:OD1	3:RJ:31:ASP:N	2.48	0.45
3:SF:12:CYS:SG	25:SF:501:GTP:H5'	2.57	0.45
3:SF:139:LEU:N	3:SF:168:SER:OG	2.50	0.45
3:SF:355:ASP:O	3:SF:357:PRO:HD3	2.17	0.45
2:SG:46:ASP:HA	2:SG:50:ASN:HB3	1.99	0.45
3:SJ:148:GLY:O	3:SJ:152:ILE:HG12	2.17	0.45
3:SJ:172:SER:OG	3:SJ:174:LYS:NZ	2.46	0.45
3:SJ:314:ALA:HA	3:SJ:350:LYS:O	2.16	0.45
2:TI:145:THR:OG1	25:TI:501:GTP:O1B	2.31	0.45
2:TI:393:HIS:HA	2:TI:396:ASP:OD2	2.17	0.45
3:UD:280:GLN:HG2	3:UD:281:TYR:CD1	2.52	0.45
2:UE:109:THR:O	2:UE:112:LYS:NZ	2.50	0.45
2:UE:136:LEU:HD21	2:UE:138:PHE:CE1	2.52	0.45
3:UF:8:GLN:HB3	3:UF:64:VAL:O	2.16	0.45
3:UF:68:LEU:HA	3:UF:93:GLY:H	1.82	0.45
3:UF:100:ASN:OD1	3:UF:103:LYS:N	2.33	0.45
2:UG:21:TRP:CH2	2:UG:52:PHE:HB3	2.50	0.45
3:UH:357:PRO:HB3	3:UH:362:LYS:O	2.17	0.45
3:VD:396:HIS:HA	3:VD:399:THR:OG1	2.16	0.45
3:VF:290:THR:HA	3:VF:293:MET:CB	2.47	0.45
2:VG:46:ASP:HA	2:VG:50:ASN:HB3	1.98	0.45
2:VG:392:ASP:HB3	2:VG:425:LEU:HD23	1.98	0.45
2:VG:396:ASP:OD1	2:VG:397:LEU:N	2.44	0.45
3:VH:390:ARG:HA	3:VH:390:ARG:HD3	1.72	0.45
3:WF:249:ASP:HB3	3:WF:252:LYS:HB2	1.99	0.45
2:WG:338:LYS:HZ2	2:WG:339:ARG:H	1.64	0.45
3:WH:214:THR:HG21	3:WH:273:LEU:HB3	1.98	0.45
2:WI:148:GLY:O	2:WI:151:SER:OG	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:425:LEU:O	2:WI:428:LEU:N	2.50	0.45
22:XD:27:LYS:O	22:XD:28:LYS:HD3	2.16	0.45
22:XD:114:VAL:O	22:XD:115:LYS:HE2	2.17	0.45
22:XD:184:TYR:CG	22:XD:185:LEU:N	2.85	0.45
22:XE:34:ILE:O	22:XE:34:ILE:HG13	2.17	0.45
23:XK:130:ILE:HG13	23:XK:131:PRO:CD	2.45	0.45
23:XK:139:ASN:O	23:XK:143:LEU:HG	2.16	0.45
23:XK:201:LYS:HG3	23:XK:203:GLU:OE2	2.17	0.45
24:YJ:47:GLU:O	24:YJ:50:GLN:HG2	2.17	0.45
24:YK:45:SER:OG	24:YK:107:SER:OG	2.18	0.45
24:YL:59:ASN:N	24:YL:63:ARG:HH12	2.13	0.45
2:AE:139:HIS:HE1	2:AE:169:PHE:H	1.65	0.45
2:AE:141:PHE:CD2	2:AE:172:TYR:HA	2.52	0.45
2:AE:396:ASP:N	2:AE:396:ASP:OD1	2.50	0.45
3:AF:378:PHE:O	3:AF:381:ILE:HG22	2.17	0.45
2:AG:184:PRO:HB2	2:AG:395:PHE:CD1	2.52	0.45
2:AG:427:ALA:HB1	22:XD:102:ARG:HH12	1.82	0.45
3:AH:164:MET:SD	3:AH:164:MET:O	2.75	0.45
3:AH:345:ILE:HD11	2:AI:181:VAL:HG11	1.99	0.45
4:B2:356:LEU:O	4:B2:360:GLN:HG2	2.17	0.45
4:B3:244:ALA:O	4:B3:247:ILE:HG22	2.16	0.45
4:B3:283:GLU:HB2	4:B3:373:ILE:HG21	1.99	0.45
4:B7:183:LEU:HA	4:B7:183:LEU:HD12	1.78	0.45
4:B7:257:GLN:HE21	4:B7:261:THR:HG23	1.82	0.45
2:BE:33:ASP:OD1	2:BE:35:GLN:N	2.32	0.45
2:BE:263:PRO:HD3	3:BF:396:HIS:CD2	2.52	0.45
3:BF:19:LYS:HZ1	3:BF:227:HIS:HB2	1.82	0.45
3:BF:36:TYR:CZ	3:BF:38:GLY:HA2	2.52	0.45
3:BF:322:SER:HB3	3:BF:325:GLU:OE1	2.17	0.45
3:BF:378:PHE:O	3:BF:381:ILE:HG22	2.16	0.45
3:BH:12:CYS:HB3	25:BH:501:GTP:O4'	2.16	0.45
3:BH:197:ASP:OD1	3:BH:198:GLU:N	2.46	0.45
3:BH:409:THR:O	3:BH:412:GLU:HG3	2.16	0.45
2:BI:203:MET:N	2:BI:203:MET:SD	2.90	0.45
2:BI:414:GLU:OE1	2:BI:414:GLU:N	2.50	0.45
5:C2:155:PHE:HD2	5:C2:156:TRP:CD1	2.34	0.45
5:C3:213:ASP:HB2	5:C3:216:GLU:OE1	2.17	0.45
5:C3:330:ILE:HD12	7:E2:184:ARG:HE	1.82	0.45
5:C3:345:LEU:HD11	7:E2:178:PHE:CD2	2.52	0.45
5:C4:433:THR:O	5:C4:436:GLN:HG3	2.17	0.45
5:C7:94:TYR:CE2	5:C8:208:ILE:HD12	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:53:PHE:O	2:CG:64:ARG:NH2	2.50	0.45
2:CG:390:ARG:HA	2:CG:393:HIS:CD2	2.52	0.45
3:CH:147:MET:O	3:CH:151:LEU:HD23	2.16	0.45
3:CH:198:GLU:HG2	3:CH:266:PHE:HE2	1.81	0.45
2:CI:346:TRP:NE1	3:CJ:391:ARG:NH2	2.65	0.45
3:CJ:42:LEU:HB2	3:CJ:46:ARG:NH2	2.32	0.45
3:DD:234:SER:O	3:DD:238:THR:HG23	2.17	0.45
3:DD:249:ASP:O	3:DD:252:LYS:HB2	2.17	0.45
3:DD:392:LYS:HB2	3:DD:395:LEU:HD22	1.98	0.45
3:DF:20:PHE:CE2	3:DF:24:ILE:HD11	2.52	0.45
2:DG:74:VAL:HA	2:DG:77:GLU:HG3	1.99	0.45
2:DG:397:LEU:C	2:DG:401:LYS:HZ1	2.20	0.45
3:ED:321:MET:SD	3:ED:321:MET:N	2.89	0.45
3:ED:372:THR:HB	3:ED:375:GLN:NE2	2.32	0.45
2:EE:185:TYR:CD1	2:EE:395:PHE:HE1	2.35	0.45
3:EH:101:TRP:HB2	3:EH:184:ASN:ND2	2.32	0.45
3:EH:310:TYR:CD1	3:EH:371:SER:HB2	2.52	0.45
8:F2:159:GLU:O	8:F2:163:LEU:HG	2.17	0.45
8:F6:162:ARG:HB3	8:F6:311:ARG:HH22	1.82	0.45
3:FD:224:ASP:O	3:FD:228:LEU:HG	2.17	0.45
3:FF:67:ASP:OD1	3:FF:68:LEU:N	2.46	0.45
3:FF:186:THR:HA	3:FF:189:VAL:HG12	1.99	0.45
2:FG:114:ILE:O	2:FG:118:VAL:HG23	2.16	0.45
2:FG:285:GLN:NE2	2:FG:287:SER:HB3	2.28	0.45
3:FH:124:ALA:HA	3:FH:127:CYS:SG	2.57	0.45
9:G1:419:VAL:HG12	9:G1:443:PHE:CD1	2.52	0.45
9:G2:31:LEU:HD11	3:LH:92:PHE:CE2	2.52	0.45
9:G2:497:GLU:OE2	9:G2:500:GLY:N	2.50	0.45
3:GD:1:MET:HG3	3:GD:2:ARG:O	2.17	0.45
3:GD:375:GLN:HA	3:GD:378:PHE:CZ	2.52	0.45
2:GE:145:THR:HG1	25:GE:501:GTP:PB	2.39	0.45
2:GE:188:ILE:HD11	2:GE:391:LEU:HD13	1.98	0.45
2:GE:192:HIS:CE1	2:GE:193:THR:HG23	2.52	0.45
3:GF:214:THR:O	3:GF:275:SER:HB2	2.17	0.45
3:GH:93:GLY:N	3:GH:112:LEU:HD21	2.32	0.45
3:GH:347:ASN:ND2	2:GI:176:GLN:O	2.48	0.45
3:GH:415:MET:O	3:GH:419:VAL:HG23	2.16	0.45
2:HE:116:ASP:N	2:HE:116:ASP:OD1	2.48	0.45
2:HE:402:ARG:HB2	2:HE:405:VAL:HG11	1.98	0.45
2:HG:220:GLU:OE1	2:HG:220:GLU:N	2.44	0.45
2:HG:381:THR:HG23	2:HG:383:ALA:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:285:THR:O	3:HH:288:GLU:HG3	2.17	0.45
2:HI:396:ASP:N	2:HI:396:ASP:OD1	2.50	0.45
3:IF:3:GLU:OE2	3:IF:127:CYS:HB2	2.17	0.45
3:IH:378:PHE:O	3:IH:381:ILE:HG22	2.16	0.45
13:J2:39:LYS:O	13:J2:42:LEU:HG	2.16	0.45
13:J2:175:ILE:HB	13:J2:176:PRO:HD2	1.99	0.45
2:JE:22:GLU:O	2:JE:26:LEU:HD23	2.17	0.45
2:JE:206:ASN:OD1	2:JE:207:GLU:N	2.49	0.45
3:JF:81:PHE:HA	3:JF:83:GLN:HE22	1.82	0.45
2:JG:89:PRO:HD3	2:KG:283:HIS:NE2	2.32	0.45
2:JG:332:ILE:HG13	2:JG:336:LYS:HZ2	1.82	0.45
2:JG:385:ALA:HA	2:JG:388:TRP:HE3	1.82	0.45
14:K3:362:HIS:O	14:K3:365:MET:HG3	2.17	0.45
14:K3:490:ALA:O	14:K3:492:SER:N	2.50	0.45
14:K4:108:ARG:O	14:K4:109:LEU:HB3	2.17	0.45
3:KD:228:LEU:O	3:KD:232:THR:HG23	2.17	0.45
3:KD:380:ARG:HB3	3:KD:380:ARG:CZ	2.47	0.45
3:KF:4:ILE:HD11	3:KF:131:GLN:HB2	1.98	0.45
2:KG:117:LEU:O	2:KG:121:ARG:HG2	2.17	0.45
2:KG:186:ASN:OD1	2:KG:187:SER:N	2.50	0.45
3:KH:81:PHE:O	3:KH:84:ILE:HG22	2.17	0.45
3:KH:134:GLN:N	3:KH:134:GLN:OE1	2.50	0.45
3:KH:218:THR:OG1	3:KH:219:THR:N	2.49	0.45
2:KI:317:MET:CE	2:KI:377:MET:HG2	2.47	0.45
15:L2:76:LYS:HD3	15:L2:78:PHE:CG	2.51	0.45
2:LE:115:VAL:HG21	2:LE:156:ARG:HD3	1.98	0.45
3:LH:11:GLN:HA	3:LH:14:ASN:CG	2.37	0.45
2:LI:2:ARG:NE	2:LI:242:LEU:HG	2.32	0.45
2:LI:102:ASN:OD1	2:LI:104:ALA:N	2.50	0.45
2:LI:304:LYS:HD2	2:LI:304:LYS:H	1.81	0.45
2:LI:390:ARG:HG2	2:LI:394:LYS:HZ2	1.81	0.45
2:ME:119:LEU:HA	2:ME:122:ILE:HD12	1.98	0.45
2:ME:173:PRO:HB3	2:ME:183:GLU:OE1	2.17	0.45
2:ME:313:MET:HG3	2:ME:344:VAL:HG21	1.99	0.45
2:ME:427:ALA:O	2:ME:430:LYS:HG2	2.17	0.45
3:MF:275:SER:O	3:MF:278:SER:OG	2.25	0.45
2:MG:36:MET:CE	2:MG:37:PRO:HD2	2.46	0.45
2:MG:431:ASP:HA	18:O2:46:ARG:HE	1.82	0.45
3:ND:47:ILE:HG13	3:ND:51:TYR:HB2	1.98	0.45
2:NE:302:MET:SD	2:NE:302:MET:O	2.75	0.45
2:NE:312:TYR:HE2	2:NE:341:ILE:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:388:TRP:CD1	2:NE:425:LEU:HD11	2.51	0.45
3:NF:197:ASP:OD1	3:NF:197:ASP:N	2.49	0.45
2:NG:287:SER:N	2:NG:290:GLU:OE2	2.50	0.45
3:NH:52:ASN:OD1	3:NH:62:ARG:NH1	2.50	0.45
18:O1:59:SER:HB2	18:O1:60:PRO:HD3	1.99	0.45
18:O2:30:GLU:H	18:O2:31:LYS:HZ3	1.65	0.45
3:OD:169:VAL:HA	3:OD:202:ILE:HB	1.99	0.45
3:OF:130:LEU:HG	3:OF:132:GLY:N	2.32	0.45
2:OG:84:ARG:HH22	24:YK:126:SER:HA	1.80	0.45
3:OH:34:GLY:HA3	3:OH:58:LYS:HZ2	1.81	0.45
2:OI:184:PRO:HB2	2:OI:395:PHE:HD2	1.80	0.45
19:P2:278:SER:O	19:P2:279:PRO:C	2.55	0.45
19:P2:331:HIS:CD2	19:P2:350:THR:HG1	2.32	0.45
2:PG:154:MET:HA	2:PG:157:LEU:HG	1.98	0.45
2:PG:311:LYS:O	2:PG:382:THR:HG23	2.17	0.45
2:QE:186:ASN:HA	2:QE:189:LEU:HD12	1.99	0.45
3:QF:13:GLY:HA2	3:QF:16:ILE:HB	1.98	0.45
3:QF:21:TRP:CZ2	3:QF:63:ALA:HB2	2.52	0.45
3:QF:314:ALA:O	3:QF:367:PHE:HA	2.17	0.45
3:QH:31:ASP:OD2	3:QH:35:THR:OG1	2.34	0.45
3:RF:99:ASN:HB3	25:RF:501:GTP:O3B	2.17	0.45
3:RF:176:SER:O	3:RF:178:THR:N	2.49	0.45
3:RF:314:ALA:HB3	3:RF:368:ILE:HG22	1.97	0.45
2:RG:306:ASP:OD2	2:RG:309:HIS:N	2.50	0.45
3:RH:325:GLU:O	3:RH:328:GLU:HG3	2.16	0.45
2:SE:172:TYR:HE2	2:SE:387:ALA:HB1	1.82	0.45
3:SF:8:GLN:HE21	3:SF:14:ASN:HA	1.81	0.45
2:SG:88:HIS:O	2:SG:91:GLN:HG2	2.17	0.45
2:SG:174:ALA:HB3	2:SG:177:VAL:O	2.17	0.45
2:SG:234:ILE:HD11	2:SG:272:TYR:HB2	1.98	0.45
2:SG:295:CYS:HB2	2:SG:377:MET:HG3	1.99	0.45
3:TF:406:MET:O	3:TF:410:GLU:OE1	2.35	0.45
3:TH:82:GLY:HA2	3:TH:85:PHE:HD2	1.82	0.45
2:TI:9:VAL:HG22	2:TI:146:GLY:HA2	1.98	0.45
2:TI:390:ARG:HG3	2:TI:391:LEU:N	2.31	0.45
3:TJ:285:THR:O	3:TJ:288:GLU:HG3	2.17	0.45
3:UD:345:ILE:HD12	3:UD:346:PRO:HD2	1.99	0.45
3:UF:10:GLY:HA3	25:UF:501:GTP:O2A	2.17	0.45
3:UF:196:THR:HG23	3:UF:264:HIS:CG	2.52	0.45
3:VD:100:ASN:OD1	3:VD:103:LYS:N	2.39	0.45
2:VE:107:HIS:CE1	2:VE:152:LEU:HD12	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:88:ASP:OD2	3:VF:122:LYS:NZ	2.46	0.45
3:VH:214:THR:HG21	3:VH:273:LEU:HB3	1.99	0.45
2:WE:11:GLN:HG3	25:WE:501:GTP:O3B	2.17	0.45
2:WE:75:VAL:HG23	2:WE:92:LEU:HD12	1.97	0.45
2:WE:262:TYR:OH	3:WF:391:ARG:O	2.33	0.45
3:WF:94:GLN:O	3:WF:94:GLN:HG3	2.16	0.45
3:WH:2:ARG:HD2	3:WH:129:CYS:HB2	1.99	0.45
2:WI:287:SER:N	2:WI:290:GLU:OE2	2.50	0.45
23:XK:229:LYS:HZ1	23:XK:235:TYR:C	2.21	0.45
23:XL:138:LYS:HD2	23:XL:176:GLN:HB3	1.97	0.45
24:YJ:150:GLU:HA	24:YJ:153:ALA:HB3	1.98	0.45
1:A2:169:TYR:CE2	9:G1:196:SER:HA	2.52	0.45
2:AE:121:ARG:HD2	2:AE:124:LYS:HZ2	1.82	0.45
2:AE:306:ASP:OD2	2:AE:309:HIS:N	2.49	0.45
2:AG:118:VAL:O	2:AG:122:ILE:HG12	2.17	0.45
2:AG:285:GLN:HG3	2:MG:56:THR:HG21	1.99	0.45
3:AH:86:ARG:HB2	3:AH:89:ASN:CG	2.37	0.45
2:AI:165:SER:C	2:AI:166:LYS:HD2	2.37	0.45
4:B3:82:LEU:O	4:B3:85:LEU:HB2	2.17	0.45
4:B8:123:ARG:NE	4:B8:123:ARG:HA	2.32	0.45
2:BE:166:LYS:O	2:BE:199:ASP:HB2	2.16	0.45
2:BE:244:PHE:HD2	2:BE:358:GLN:HG2	1.82	0.45
3:BF:104:GLY:HA2	3:BF:108:GLU:HB2	1.99	0.45
2:BG:323:VAL:HG21	2:BG:355:ILE:HD12	1.99	0.45
2:BG:326:LYS:HA	2:BG:329:ASN:HD21	1.82	0.45
2:BI:76:ASP:OD1	2:BI:79:ARG:NH2	2.47	0.45
5:C2:130:ASP:OD1	5:C2:131:LYS:N	2.50	0.45
5:C7:298:GLU:OE1	5:C7:298:GLU:N	2.50	0.45
5:C8:389:LYS:NZ	5:C8:430:THR:HG22	2.32	0.45
3:CF:189:VAL:HA	3:CF:192:LEU:HB2	1.99	0.45
2:CG:392:ASP:OD1	2:CG:393:HIS:N	2.49	0.45
3:CH:412:GLU:HA	3:CH:415:MET:HG2	1.99	0.45
3:CJ:249:ASP:O	3:CJ:253:LEU:HG	2.17	0.45
6:D3:147:VAL:HG12	6:D3:151:ILE:HD11	1.98	0.45
6:D3:153:THR:O	6:D3:156:LEU:HG	2.17	0.45
3:DD:156:ARG:HD2	3:DD:156:ARG:HA	1.82	0.45
2:DG:175:PRO:O	2:DG:390:ARG:HD3	2.17	0.45
3:DH:142:GLY:N	25:DH:501:GTP:O3B	2.50	0.45
3:DH:276:ARG:HB3	9:G2:285:ARG:HE	1.82	0.45
3:ED:320:ARG:O	11:H3:296:TYR:OH	2.29	0.45
3:ED:409:THR:O	3:ED:412:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:203:ASP:O	3:EF:207:LEU:HD23	2.17	0.45
3:EH:374:ILE:HG22	3:EH:378:PHE:CD2	2.49	0.45
3:FD:43:GLN:O	3:FD:47:ILE:HB	2.17	0.45
3:FF:105:HIS:HD2	3:FF:106:TYR:CE2	2.35	0.45
3:FF:137:HIS:O	3:FF:168:SER:HA	2.17	0.45
2:FG:27:GLU:HG3	2:FG:28:HIS:ND1	2.32	0.45
2:FG:30:ILE:HA	2:FG:36:MET:CE	2.47	0.45
2:FG:174:ALA:HB3	2:FG:177:VAL:O	2.17	0.45
10:G5:457:TYR:HE2	10:G5:483:ARG:HG3	1.81	0.45
10:G5:487:LYS:HZ3	10:G5:501:TYR:HE1	1.64	0.45
3:GD:2:ARG:NH2	2:GE:96:LYS:HB3	2.32	0.45
3:HD:206:ALA:HB1	3:HD:300:MET:HA	1.99	0.45
3:HD:327:ASP:O	3:HD:330:MET:HG3	2.16	0.45
2:HE:10:GLY:O	2:HE:14:VAL:HG13	2.17	0.45
2:HE:70:LEU:HD21	2:HE:149:PHE:CE2	2.52	0.45
2:HG:353:VAL:N	3:HH:177:ASP:OD1	2.35	0.45
2:IE:311:LYS:HD3	2:IE:342:GLN:HB3	1.99	0.45
3:JD:344:TRP:O	2:JE:401:LYS:HD2	2.17	0.45
2:JG:90:GLU:HG2	2:JG:121:ARG:NH2	2.32	0.45
3:JH:330:MET:CG	3:JH:349:VAL:HG11	2.47	0.45
3:JH:358:PRO:HB2	3:JH:361:LEU:HD21	1.97	0.45
14:K2:184:TYR:CE2	14:K2:487:PRO:HB3	2.52	0.45
2:KE:51:THR:HG23	2:KE:52:PHE:CD2	2.52	0.45
2:KE:82:THR:HA	2:KE:84:ARG:HH11	1.82	0.45
2:KE:325:PRO:HB2	3:KF:208:TYR:OH	2.16	0.45
3:KF:350:LYS:HE3	2:KG:181:VAL:N	2.30	0.45
2:KI:94:THR:O	2:KI:96:LYS:NZ	2.50	0.45
3:MF:8:GLN:NE2	3:MF:14:ASN:HA	2.32	0.45
3:MF:40:SER:HB2	3:MF:43:GLN:HG2	1.98	0.45
3:MF:406:MET:SD	3:MF:407:GLU:N	2.90	0.45
2:MG:25:CYS:HB2	2:MG:30:ILE:HB	1.99	0.45
3:MH:210:ILE:HA	3:MH:213:ARG:CD	2.47	0.45
2:MI:116:ASP:N	2:MI:116:ASP:OD1	2.50	0.45
2:MI:171:ILE:HD11	2:MI:206:ASN:N	2.32	0.45
2:MI:246:GLY:HA2	2:MI:357:TYR:HD2	1.82	0.45
17:N3:89:LYS:O	17:N3:93:LEU:HD23	2.17	0.45
3:ND:141:GLY:HA3	25:ND:501:GTP:H5''	1.99	0.45
2:NE:19:ALA:HA	2:NE:22:GLU:OE1	2.16	0.45
2:NE:326:LYS:HG3	2:NE:327:ASP:H	1.82	0.45
3:NF:52:ASN:O	3:NF:60:VAL:N	2.46	0.45
2:NG:53:PHE:HB3	2:NG:61:HIS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:74:VAL:O	2:NG:78:VAL:HG22	2.17	0.45
2:NI:270:ALA:HA	2:NI:377:MET:O	2.17	0.45
2:NI:372:GLN:HB2	2:NI:373:ARG:HH11	1.81	0.45
2:OE:319:TYR:HB2	2:OE:355:ILE:HD13	1.99	0.45
3:OF:39:ASP:N	3:OF:39:ASP:OD1	2.50	0.45
3:OF:374:ILE:HD12	3:OF:374:ILE:H	1.82	0.45
19:P1:44:GLY:HA3	19:P1:587:SER:CB	2.47	0.45
19:P1:526:ILE:HG22	19:P1:540:LEU:HB2	1.98	0.45
19:P2:292:GLY:N	19:P2:310:GLU:HG3	2.32	0.45
2:PE:166:LYS:HZ1	2:PE:197:HIS:C	2.20	0.45
2:PE:170:ALA:O	2:PE:203:MET:HA	2.17	0.45
2:PE:279:GLU:O	2:PE:283:HIS:HD2	2.00	0.45
2:PE:390:ARG:HA	2:PE:393:HIS:NE2	2.32	0.45
2:PG:430:LYS:HA	2:PG:433:GLU:OE1	2.17	0.45
2:QE:56:THR:HB	2:RE:285:GLN:HG3	1.99	0.45
2:QG:88:HIS:CE1	2:RG:280:LYS:HZ3	2.35	0.45
2:QI:9:VAL:HG11	2:QI:150:ALA:HB2	1.98	0.45
2:RE:255:PHE:O	2:RE:259:LEU:HD23	2.17	0.45
3:RF:99:ASN:CB	3:RF:142:GLY:HA3	2.44	0.45
2:RG:175:PRO:HA	2:RG:390:ARG:CZ	2.46	0.45
2:RG:292:THR:HA	2:RG:295:CYS:SG	2.57	0.45
3:RH:130:LEU:O	3:RH:162:ARG:HD2	2.17	0.45
3:RH:305:PRO:HB3	3:RH:373:ALA:HB2	1.98	0.45
2:RI:263:PRO:O	2:RI:264:ARG:HB2	2.17	0.45
2:SG:103:TYR:HB2	2:SG:186:ASN:HB2	1.99	0.45
3:SH:204:ASN:O	3:SH:208:TYR:HD1	2.00	0.45
3:SJ:335:ASN:OD1	3:SJ:336:LYS:N	2.50	0.45
2:TG:121:ARG:O	2:TG:124:LYS:HG3	2.17	0.45
2:TG:122:ILE:CD1	2:TG:157:LEU:HD21	2.46	0.45
2:TG:297:GLU:HG2	2:TG:298:PRO:HD2	1.99	0.45
3:TH:46:ARG:HH12	3:TH:243:PRO:HD3	1.81	0.45
3:TH:266:PHE:HD1	3:TH:370:ASN:OD1	2.00	0.45
2:TI:326:LYS:HE3	3:TJ:220:PRO:HD2	1.98	0.45
3:TJ:171:PRO:HG3	3:TJ:181:GLU:CD	2.37	0.45
3:TJ:216:LYS:HB3	3:TJ:276:ARG:NH2	2.31	0.45
2:UE:8:HIS:CE1	2:UE:65:ALA:HB1	2.51	0.45
2:UG:149:PHE:O	2:UG:153:LEU:HD23	2.17	0.45
2:UG:192:HIS:HA	2:UG:195:LEU:HD23	1.98	0.45
3:UH:20:PHE:O	3:UH:24:ILE:HG13	2.17	0.45
3:UH:269:GLY:HA3	3:UH:367:PHE:HB3	1.99	0.45
3:VD:189:VAL:O	3:VD:193:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:233:GLN:HE22	2:VE:234:ILE:HD13	1.83	0.45
3:VF:268:PRO:HD2	3:VF:301:ALA:HB2	1.98	0.45
2:VG:9:VAL:HG11	2:VG:150:ALA:HB2	1.99	0.45
2:VG:21:TRP:HA	2:VG:24:TYR:CD2	2.51	0.45
3:VH:80:PRO:HB2	3:VH:81:PHE:CE2	2.52	0.45
3:VH:162:ARG:HA	3:VH:162:ARG:HD3	1.65	0.45
3:VH:345:ILE:HD12	3:VH:346:PRO:HD2	1.99	0.45
2:WE:3:GLU:N	2:WE:133:GLN:OE1	2.50	0.45
2:WE:47:ASP:H	2:WE:50:ASN:HB3	1.81	0.45
2:WE:339:ARG:O	2:WE:342:GLN:NE2	2.50	0.45
3:WF:193:VAL:HG23	3:WF:264:HIS:CD2	2.51	0.45
2:WG:402:ARG:HB2	2:WG:405:VAL:HG11	1.99	0.45
3:WH:28:HIS:ND1	3:WH:30:ILE:HD11	2.31	0.45
3:WH:376:GLU:HA	3:WH:379:LYS:HG2	1.99	0.45
3:WH:410:GLU:HA	3:WH:413:SER:HB3	1.98	0.45
2:WI:1:MET:O	2:WI:131:GLY:HA3	2.17	0.45
22:XE:60:THR:HA	22:XE:155:GLN:HA	1.99	0.45
23:XL:119:LEU:HD23	23:XL:119:LEU:HA	1.81	0.45
24:YK:112:SER:HA	24:YK:135:GLY:HA3	1.99	0.45
24:YL:16:LYS:O	24:YL:16:LYS:HD2	2.17	0.45
24:YN:128:ASP:HA	24:YN:131:ARG:HB2	1.97	0.45
1:A2:152:ARG:HA	1:A2:155:GLU:OE1	2.16	0.44
2:AE:139:HIS:CD2	2:AE:170:ALA:HB2	2.53	0.44
2:AE:188:ILE:O	2:AE:191:THR:OG1	2.32	0.44
3:AF:172:SER:HA	3:AF:203:ASP:OD2	2.17	0.44
2:AG:5:ILE:HB	2:AG:135:PHE:CD1	2.52	0.44
2:AG:174:ALA:HB1	2:AG:207:GLU:OE2	2.16	0.44
2:AG:252:LEU:CA	2:AG:255:PHE:HD2	2.29	0.44
2:AG:287:SER:N	2:AG:290:GLU:OE2	2.25	0.44
3:AH:11:GLN:HA	3:AH:14:ASN:ND2	2.32	0.44
2:AI:306:ASP:OD2	2:AI:309:HIS:ND1	2.50	0.44
4:B2:121:GLU:CD	4:B3:4:LEU:HD21	2.36	0.44
4:B2:293:LEU:HA	4:B3:39:ARG:NH1	2.32	0.44
4:B3:12:TYR:HE2	4:B3:17:TRP:HB2	1.82	0.44
2:BE:6:SER:HG	2:BE:8:HIS:CD2	2.36	0.44
2:BG:145:THR:HG1	25:BG:501:GTP:PB	2.38	0.44
2:BG:272:TYR:HD2	2:BG:275:VAL:HG13	1.83	0.44
3:BH:23:VAL:HA	3:BH:26:ASP:OD2	2.18	0.44
3:BH:155:ILE:HA	3:BH:158:GLU:HB2	1.98	0.44
2:BI:224:TYR:CE1	25:BI:501:GTP:C6	3.04	0.44
2:BI:319:TYR:CE2	2:BI:328:VAL:HG22	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:214:GLU:OE1	5:C3:214:GLU:N	2.48	0.44
2:CG:47:ASP:O	2:CG:49:PHE:N	2.50	0.44
3:CH:20:PHE:CZ	3:CH:24:ILE:HD11	2.52	0.44
3:CH:198:GLU:HG2	3:CH:266:PHE:CE2	2.52	0.44
2:CI:285:GLN:HE22	2:CI:287:SER:HB3	1.82	0.44
2:CI:313:MET:HE3	2:CI:380:ASN:HB3	1.99	0.44
3:CJ:130:LEU:HG	3:CJ:132:GLY:N	2.33	0.44
2:DE:254:GLU:N	2:DE:254:GLU:OE1	2.50	0.44
3:DF:11:GLN:NE2	25:DF:501:GTP:H3'	2.22	0.44
3:DF:41:ASP:OD1	3:DF:42:LEU:N	2.50	0.44
3:DF:73:MET:HA	3:DF:76:VAL:HG22	1.99	0.44
3:DH:101:TRP:CZ2	3:DH:187:LEU:HB3	2.52	0.44
3:EF:173:PRO:HA	3:EF:380:ARG:CZ	2.47	0.44
2:EG:2:ARG:NH1	2:EG:241:SER:O	2.50	0.44
2:EG:206:ASN:OD1	2:EG:207:GLU:N	2.50	0.44
3:EH:183:TYR:CZ	3:EH:388:MET:HB3	2.52	0.44
8:F6:289:THR:HG21	8:F7:409:ARG:HG3	1.99	0.44
2:FE:196:GLU:OE1	2:FE:196:GLU:N	2.31	0.44
2:FE:420:GLU:HA	2:FE:423:GLU:CD	2.37	0.44
3:FF:224:ASP:O	3:FF:227:HIS:HB3	2.17	0.44
9:G1:13:PRO:HA	3:LD:227:HIS:CG	2.53	0.44
9:G1:382:PRO:HA	9:G1:383:PRO:HD3	1.87	0.44
9:G2:473:VAL:HA	9:G2:484:TYR:CD1	2.52	0.44
10:G5:523:LEU:HD23	10:G5:523:LEU:HA	1.86	0.44
10:G5:659:ARG:NH1	10:G5:660:ARG:HB3	2.32	0.44
3:GD:182:PRO:O	3:GD:186:THR:HG23	2.17	0.44
2:GE:121:ARG:O	2:GE:124:LYS:HG2	2.16	0.44
3:GF:11:GLN:O	25:GF:501:GTP:N2	2.50	0.44
2:GG:246:GLY:HA2	2:GG:357:TYR:CD2	2.52	0.44
3:GH:183:TYR:OH	3:GH:388:MET:HB3	2.17	0.44
3:GH:251:ARG:O	3:GH:255:VAL:HG22	2.17	0.44
3:GH:322:SER:HB2	2:GI:221:ARG:NH1	2.32	0.44
2:GI:351:PHE:O	2:GI:352:LYS:HD2	2.17	0.44
3:HD:30:ILE:HD12	3:HD:30:ILE:H	1.82	0.44
3:HD:205:GLU:HA	3:HD:208:TYR:CD2	2.52	0.44
3:HD:270:PHE:CG	3:HD:271:ALA:N	2.81	0.44
3:HH:12:CYS:SG	3:HH:13:GLY:N	2.91	0.44
3:HH:331:LEU:HD21	2:HI:177:VAL:HG22	1.98	0.44
2:HI:89:PRO:HD3	2:II:283:HIS:NE2	2.32	0.44
3:IF:260:PHE:HE2	3:IF:425:TYR:HE1	1.64	0.44
2:IG:398:MET:SD	2:IG:398:MET:N	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:268:PRO:HD2	3:IH:301:ALA:HB2	1.99	0.44
3:IH:324:LYS:HD2	2:II:221:ARG:HA	1.99	0.44
2:II:263:PRO:O	2:II:264:ARG:HB2	2.17	0.44
13:J2:170:SER:CB	13:J2:175:ILE:HG12	2.47	0.44
3:JF:100:ASN:OD1	3:JF:103:LYS:N	2.33	0.44
2:JG:70:LEU:HD12	2:JG:97:GLU:O	2.18	0.44
2:JG:301:GLN:OE1	2:JG:301:GLN:N	2.50	0.44
14:K2:339:LYS:O	14:K2:342:GLU:HG2	2.16	0.44
14:K2:360:THR:HG22	14:K2:363:ARG:NH1	2.32	0.44
14:K3:344:LEU:O	14:K3:347:LYS:HG2	2.16	0.44
14:K3:345:GLU:HA	14:K3:348:GLU:HG2	1.98	0.44
14:K4:44:VAL:HG23	14:K4:45:THR:N	2.26	0.44
2:KE:39:ASP:N	2:KE:39:ASP:OD1	2.50	0.44
15:L2:72:LEU:O	15:L2:74:PRO:HD3	2.16	0.44
3:LD:12:CYS:O	3:LD:16:ILE:HG12	2.16	0.44
2:LE:326:LYS:HA	2:LE:329:ASN:HD21	1.83	0.44
3:LF:176:SER:O	3:LF:178:THR:N	2.50	0.44
2:LG:243:ARG:HB3	2:LG:244:PHE:HD1	1.82	0.44
2:LG:274:PRO:HG3	2:LG:374:ALA:HA	1.99	0.44
2:LG:292:THR:HA	2:LG:295:CYS:SG	2.56	0.44
2:LI:425:LEU:O	2:LI:428:LEU:HB2	2.17	0.44
16:M3:67:ARG:O	16:M3:71:LEU:HG	2.17	0.44
2:ME:326:LYS:HZ3	3:MF:208:TYR:HD1	1.63	0.44
3:MF:119:VAL:HA	3:MF:122:LYS:HE2	1.99	0.44
3:MF:385:PHE:HA	3:MF:388:MET:HE2	1.99	0.44
3:MH:375:GLN:HA	3:MH:378:PHE:CZ	2.52	0.44
2:MI:227:LEU:O	2:MI:230:LEU:HG	2.16	0.44
3:ND:324:LYS:HE2	2:NE:222:PRO:CD	2.47	0.44
2:NE:169:PHE:HE1	2:NE:202:PHE:CD2	2.34	0.44
3:NF:14:ASN:OD1	3:NF:65:LEU:HD11	2.17	0.44
3:NF:330:MET:HG2	3:NF:349:VAL:HG11	1.98	0.44
3:NF:407:GLU:HA	3:NF:410:GLU:OE1	2.17	0.44
2:NG:408:TYR:CD2	2:NG:418:PHE:HZ	2.35	0.44
3:NH:11:GLN:HA	3:NH:14:ASN:HD22	1.82	0.44
2:OE:16:ILE:HB	2:OE:231:ILE:HD11	1.97	0.44
2:OE:30:ILE:HG22	2:OE:31:GLN:O	2.18	0.44
2:OE:99:ALA:HB3	2:OE:145:THR:HA	1.98	0.44
2:OG:10:GLY:O	2:OG:14:VAL:HG13	2.17	0.44
3:OH:111:GLU:HG2	3:OH:112:LEU:HD12	1.99	0.44
2:OI:296:PHE:HE2	2:OI:335:ILE:HG21	1.78	0.44
19:P1:47:VAL:CG1	19:P1:60:LEU:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:338:ILE:HG22	19:P1:350:THR:HG22	1.98	0.44
19:P2:22:PHE:HA	19:P2:43:LEU:HD13	1.98	0.44
2:PE:256:GLN:O	2:PE:260:VAL:HG12	2.16	0.44
2:PE:397:LEU:O	2:PE:401:LYS:HG2	2.17	0.44
3:PF:350:LYS:NZ	3:PF:352:ALA:HB2	2.32	0.44
2:PG:19:ALA:O	2:PG:23:LEU:HG	2.17	0.44
2:PG:88:HIS:HE1	2:PG:90:GLU:CD	2.21	0.44
2:PG:174:ALA:HB3	2:PG:177:VAL:O	2.17	0.44
2:PI:70:LEU:HD11	2:PI:149:PHE:CZ	2.52	0.44
2:PI:209:ILE:HG23	2:PI:230:LEU:HD21	1.99	0.44
20:Q2:1377:GLU:O	20:Q2:1381:GLN:HG2	2.17	0.44
2:QE:104:ALA:O	2:QE:108:TYR:HD1	1.99	0.44
2:QE:139:HIS:ND1	2:QE:169:PHE:O	2.49	0.44
3:QF:240:LEU:HD22	3:QF:248:ALA:HB1	1.99	0.44
3:QF:310:TYR:CD1	3:QF:371:SER:HB2	2.51	0.44
3:QF:345:ILE:HG13	3:QF:346:PRO:O	2.17	0.44
2:QG:75:VAL:HA	2:QG:78:VAL:HG22	1.99	0.44
2:QG:186:ASN:OD1	2:QG:187:SER:N	2.51	0.44
2:QG:260:VAL:O	3:QH:397:TRP:HH2	2.00	0.44
2:QG:296:PHE:HD2	2:QG:335:ILE:HD12	1.82	0.44
3:QH:47:ILE:HG13	3:QH:51:TYR:HB2	1.99	0.44
2:QI:211:ASP:HB2	2:QI:215:ARG:HH21	1.81	0.44
3:RF:21:TRP:CZ3	3:RF:61:PRO:HB3	2.52	0.44
2:RG:55:GLU:HA	2:RG:60:LYS:O	2.16	0.44
2:RG:91:GLN:HB2	2:RG:121:ARG:HH21	1.82	0.44
3:RH:228:LEU:O	3:RH:232:THR:HG23	2.17	0.44
2:RI:12:ALA:HB1	25:RI:501:GTP:N2	2.32	0.44
3:SF:11:GLN:HG2	25:SF:501:GTP:O1B	2.17	0.44
3:SF:161:ASP:HB2	3:SF:162:ARG:HH11	1.82	0.44
2:SG:2:ARG:NH1	2:SG:241:SER:O	2.51	0.44
3:SJ:49:VAL:HG21	3:SJ:240:LEU:HD21	1.99	0.44
2:TG:140:SER:HB2	2:TG:171:ILE:HG22	2.00	0.44
2:TG:426:ALA:O	2:TG:429:GLU:HG2	2.16	0.44
3:TH:392:LYS:HB2	3:TH:395:LEU:HD13	1.99	0.44
2:TI:224:TYR:CE1	25:TI:501:GTP:C5	3.02	0.44
2:TI:312:TYR:HB2	2:TI:343:PHE:HA	1.99	0.44
3:TJ:270:PHE:CG	3:TJ:271:ALA:N	2.85	0.44
3:TJ:403:MET:HB3	3:TJ:407:GLU:OE1	2.17	0.44
3:UD:21:TRP:CE3	3:UD:24:ILE:HD12	2.52	0.44
3:UD:239:CYS:SG	3:UD:240:LEU:N	2.90	0.44
2:UE:53:PHE:HB3	2:UE:61:HIS:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:55:GLU:HA	2:UE:60:LYS:O	2.17	0.44
3:UF:325:GLU:O	3:UF:329:GLN:HG2	2.17	0.44
2:UG:139:HIS:HB2	2:UG:146:GLY:O	2.16	0.44
3:UH:280:GLN:OE1	3:UH:280:GLN:N	2.50	0.44
3:VD:249:ASP:OD2	3:VD:251:ARG:HB2	2.17	0.44
3:VD:344:TRP:HA	2:VE:401:LYS:HE2	1.99	0.44
3:VD:395:LEU:HD23	3:VD:399:THR:HG23	1.98	0.44
2:VE:76:ASP:OD1	2:VE:79:ARG:NH2	2.50	0.44
2:VE:256:GLN:CD	3:VF:397:TRP:HE1	2.14	0.44
2:VE:285:GLN:NE2	2:VE:286:LEU:O	2.51	0.44
3:VF:313:VAL:HG23	3:VF:349:VAL:HA	1.98	0.44
2:VG:138:PHE:CZ	2:VG:169:PHE:HD2	2.35	0.44
3:VH:309:ARG:O	3:VH:371:SER:OG	2.18	0.44
3:WF:117:LEU:HB3	3:WF:121:ARG:NH2	2.31	0.44
3:WH:39:ASP:OD1	3:WH:39:ASP:N	2.46	0.44
3:WH:164:MET:HG2	3:WH:197:ASP:CG	2.38	0.44
3:WH:251:ARG:O	3:WH:255:VAL:HG22	2.18	0.44
2:WI:132:LEU:HD11	23:XL:71:HIS:NE2	2.31	0.44
22:XC:109:GLN:O	22:XC:122:PRO:HB3	2.16	0.44
22:XD:94:LEU:HD13	22:XD:100:ARG:HG2	1.98	0.44
23:XJ:180:ILE:HG23	23:XJ:181:LEU:HD22	1.99	0.44
23:XJ:201:LYS:H	23:XJ:203:GLU:CD	2.19	0.44
24:YI:14:LYS:HE3	24:YI:14:LYS:HB3	1.65	0.44
24:YI:75:GLU:HA	24:YI:78:LYS:HD2	2.00	0.44
24:YI:116:LYS:O	24:YI:119:HIS:ND1	2.36	0.44
24:YK:2:ASN:O	24:YK:6:GLU:HG2	2.17	0.44
24:YN:139:SER:O	24:YN:142:PRO:HD2	2.17	0.44
1:A2:267:GLY:O	1:A2:270:GLU:HG3	2.17	0.44
3:AF:31:ASP:N	3:AF:31:ASP:OD1	2.50	0.44
3:AF:114:ASP:N	3:AF:114:ASP:OD1	2.50	0.44
3:AF:255:VAL:O	2:AG:404:PHE:HE1	1.99	0.44
3:AF:309:ARG:HH21	3:AF:426:GLN:HG2	1.82	0.44
3:AH:139:LEU:HD12	3:AH:140:GLY:N	2.32	0.44
3:AH:182:PRO:HG2	3:AH:388:MET:CE	2.47	0.44
2:AI:396:ASP:OD1	2:AI:396:ASP:N	2.50	0.44
4:B2:299:ARG:HA	4:B2:302:GLU:OE2	2.17	0.44
4:B2:312:LYS:O	4:B2:316:THR:HG23	2.17	0.44
4:B3:165:LEU:HD21	4:B3:232:GLU:HB3	1.98	0.44
4:B8:282:GLN:O	4:B8:286:THR:HG23	2.17	0.44
2:BE:336:LYS:NZ	3:BF:175:VAL:HB	2.32	0.44
3:BF:6:HIS:CE1	3:BF:8:GLN:HB2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:190:HIS:ND1	3:BF:191:GLN:HG3	2.32	0.44
2:BG:194:THR:O	2:BG:196:GLU:N	2.51	0.44
5:C3:121:ARG:HH22	5:C4:378:THR:H	1.65	0.44
5:C3:176:ASP:N	5:C3:176:ASP:OD1	2.50	0.44
5:C3:357:ALA:HB1	5:C3:462:LYS:HZ1	1.82	0.44
5:C4:441:SER:O	5:C4:444:THR:OG1	2.25	0.44
5:C7:131:LYS:HA	5:C7:131:LYS:HD2	1.84	0.44
5:C8:222:GLU:CD	5:C8:339:GLN:HB3	2.38	0.44
5:C8:302:LYS:HA	5:C8:302:LYS:HD3	1.80	0.44
3:CF:3:GLU:OE2	3:CF:127:CYS:HB3	2.16	0.44
3:CH:21:TRP:CZ2	3:CH:63:ALA:HB2	2.51	0.44
3:CH:372:THR:HB	3:CH:375:GLN:HE22	1.81	0.44
3:CH:405:GLU:O	3:CH:409:THR:HG23	2.17	0.44
2:CI:251:ASP:HB3	2:CI:254:GLU:OE1	2.17	0.44
3:CJ:258:VAL:HG22	3:CJ:266:PHE:HZ	1.81	0.44
3:CJ:372:THR:HG21	3:CJ:426:GLN:CB	2.47	0.44
6:D3:399:GLU:OE2	6:D3:403:ARG:NE	2.51	0.44
6:D8:135:LYS:NZ	6:D8:198:VAL:HG13	2.33	0.44
3:DD:155:ILE:HA	3:DD:158:GLU:HB2	1.99	0.44
2:DE:248:LEU:HD21	2:DE:355:ILE:HG12	1.99	0.44
3:DF:31:ASP:OD2	3:DF:33:THR:OG1	2.35	0.44
3:DF:238:THR:HA	3:DF:241:ARG:NH1	2.32	0.44
3:DF:330:MET:CG	3:DF:349:VAL:HG11	2.47	0.44
2:DG:66:VAL:HG12	2:DG:68:VAL:HG13	1.98	0.44
7:E2:152:THR:O	7:E2:154:ASN:N	2.50	0.44
3:ED:2:ARG:HB2	3:ED:131:GLN:CD	2.37	0.44
3:ED:113:VAL:HA	3:ED:116:VAL:HG22	1.98	0.44
2:EE:30:ILE:HD12	2:EE:61:HIS:CD2	2.52	0.44
2:EE:54:SER:OG	2:EE:64:ARG:NH2	2.50	0.44
3:EF:318:ARG:HG2	3:EF:356:ILE:O	2.16	0.44
2:EG:40:LYS:HB2	9:G2:421:ARG:NH1	2.31	0.44
2:EG:311:LYS:N	2:EG:382:THR:OG1	2.47	0.44
3:EH:200:TYR:HB3	3:EH:202:ILE:HD11	1.99	0.44
8:F2:370:GLN:O	8:F2:374:THR:HG23	2.17	0.44
8:F3:181:ALA:HB2	8:F3:229:MET:CE	2.47	0.44
3:FD:46:ARG:NE	3:FD:46:ARG:HA	2.32	0.44
2:FE:3:GLU:OE1	2:FE:3:GLU:N	2.50	0.44
2:FE:119:LEU:HB3	2:FE:123:ARG:NH2	2.32	0.44
3:FF:379:LYS:HE2	3:FF:379:LYS:HA	1.99	0.44
9:G2:232:LEU:HD12	9:G2:233:LYS:N	2.32	0.44
10:G5:417:ASN:N	10:G5:417:ASN:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:46:ARG:NH1	2:GE:73:THR:HG23	2.23	0.44
2:GE:214:ARG:HH12	2:GE:215:ARG:HG3	1.80	0.44
3:GF:334:GLN:HA	3:GF:341:PHE:HE2	1.82	0.44
3:GF:374:ILE:HD12	3:GF:374:ILE:H	1.82	0.44
2:GG:255:PHE:HA	2:GG:259:LEU:HD23	1.99	0.44
2:GG:296:PHE:HE2	2:GG:335:ILE:HG13	1.82	0.44
2:GI:229:ARG:HE	2:GI:363:VAL:CG1	2.31	0.44
11:H4:281:LEU:HD12	11:H4:282:ILE:H	1.82	0.44
2:HE:67:PHE:HB2	2:HE:92:LEU:HD13	1.98	0.44
2:HG:115:VAL:HG11	2:HG:152:LEU:HD22	1.99	0.44
2:HG:408:TYR:HD2	2:HG:418:PHE:HZ	1.65	0.44
2:HI:27:GLU:HB3	2:HI:361:THR:HG21	1.98	0.44
3:IF:152:ILE:HA	3:IF:155:ILE:HG12	2.00	0.44
2:IG:230:LEU:O	2:IG:234:ILE:HG12	2.18	0.44
3:IH:156:ARG:HD3	3:IH:164:MET:HG2	1.99	0.44
3:JD:19:LYS:HZ2	3:JD:227:HIS:HB2	1.81	0.44
3:JD:152:ILE:O	3:JD:156:ARG:HG2	2.17	0.44
3:JD:263:LEU:HD21	3:JD:421:GLU:OE2	2.17	0.44
3:JD:328:GLU:OE2	3:JD:329:GLN:NE2	2.49	0.44
3:JF:30:ILE:HG22	3:JF:31:ASP:O	2.18	0.44
2:JG:35:GLN:HG2	2:JG:59:GLY:O	2.17	0.44
3:JH:314:ALA:HA	3:JH:350:LYS:O	2.17	0.44
14:K2:392:LYS:HG3	14:K2:394:ASN:O	2.17	0.44
2:KG:21:TRP:NE1	2:KG:63:PRO:HB3	2.33	0.44
2:KG:338:LYS:HZ3	2:KG:339:ARG:HD3	1.81	0.44
2:KG:377:MET:SD	2:KG:379:SER:HB3	2.57	0.44
3:KH:189:VAL:HA	3:KH:192:LEU:HB3	1.99	0.44
2:KI:75:VAL:HG11	2:KI:94:THR:HB	1.99	0.44
15:L2:132:ASP:OD1	15:L2:134:HIS:HB2	2.17	0.44
15:L2:186:LYS:HG3	15:L2:252:ILE:HD12	1.98	0.44
15:L3:78:PHE:CG	15:L3:78:PHE:O	2.70	0.44
15:L3:169:GLN:HA	15:L3:172:TYR:CD2	2.51	0.44
3:LF:341:PHE:HB3	3:LF:348:ASN:ND2	2.31	0.44
2:LG:88:HIS:NE2	2:LG:90:GLU:OE2	2.51	0.44
3:LH:324:LYS:HE3	3:LH:324:LYS:HB3	1.84	0.44
2:LI:214:ARG:NH1	2:LI:215:ARG:HG3	2.32	0.44
16:M3:54:THR:HG23	16:M3:91:GLY:HA2	1.98	0.44
2:ME:140:SER:OG	2:ME:143:GLY:HA2	2.17	0.44
2:ME:175:PRO:HD3	2:ME:205:ASP:OD1	2.18	0.44
2:MG:394:LYS:O	2:MG:398:MET:HG3	2.17	0.44
3:MH:246:LEU:HD13	3:MH:353:VAL:C	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:267:MET:HG2	3:MH:299:MET:CE	2.47	0.44
3:MH:310:TYR:HA	3:MH:371:SER:HB2	2.00	0.44
2:MI:311:LYS:HZ2	2:MI:342:GLN:HB3	1.82	0.44
2:MI:346:TRP:N	2:MI:346:TRP:CD1	2.84	0.44
3:ND:213:ARG:HD3	3:ND:213:ARG:HA	1.82	0.44
2:NG:156:ARG:HA	2:NG:159:VAL:HG22	1.99	0.44
3:NH:258:VAL:HB	2:NI:407:TRP:HZ2	1.82	0.44
2:NI:124:LYS:HD2	2:NI:125:LEU:HD22	1.98	0.44
2:NI:326:LYS:HA	2:NI:329:ASN:HD21	1.82	0.44
18:O1:101:ASP:N	18:O1:101:ASP:OD1	2.49	0.44
3:OD:86:ARG:NE	3:OD:87:PRO:HD2	2.32	0.44
3:OD:162:ARG:HA	3:OD:251:ARG:NH2	2.32	0.44
3:OD:271:ALA:HB1	3:OD:272:PRO:CD	2.47	0.44
2:OE:23:LEU:HA	2:OE:26:LEU:HB2	2.00	0.44
2:OE:207:GLU:HB2	2:OE:304:LYS:HZ1	1.83	0.44
2:OG:33:ASP:OD1	2:OG:34:GLY:N	2.51	0.44
2:OG:270:ALA:O	2:OG:271:THR:OG1	2.30	0.44
3:OH:1:MET:O	3:OH:129:CYS:HB3	2.17	0.44
2:OI:21:TRP:CE3	2:OI:24:TYR:HD2	2.36	0.44
2:OI:42:ILE:HG21	2:OI:59:GLY:HA2	1.98	0.44
19:P1:115:GLU:HB2	19:P1:129:LEU:HG	1.99	0.44
2:PE:208:ALA:H	2:PE:304:LYS:NZ	2.12	0.44
2:PG:1:MET:N	2:PG:130:THR:OG1	2.50	0.44
3:PH:194:GLU:OE1	3:PH:194:GLU:N	2.36	0.44
2:PI:42:ILE:HG12	2:PI:55:GLU:CD	2.37	0.44
20:Q2:1425:LYS:HE2	20:Q2:1509:ASP:HA	1.99	0.44
2:QE:89:PRO:HD3	2:RE:283:HIS:HE1	1.83	0.44
2:QE:237:SER:HA	2:QE:320:ARG:HH11	1.82	0.44
2:QE:333:ALA:O	2:QE:337:THR:HG23	2.17	0.44
3:QH:86:ARG:NE	3:QH:86:ARG:HA	2.31	0.44
3:QH:174:LYS:N	3:QH:205:GLU:OE2	2.48	0.44
2:QI:118:VAL:O	2:QI:122:ILE:HG23	2.17	0.44
2:QI:323:VAL:HG22	2:QI:324:VAL:N	2.32	0.44
2:QI:338:LYS:HZ2	2:QI:340:THR:H	1.65	0.44
2:RE:54:SER:HB2	2:RE:62:VAL:HB	1.98	0.44
2:RE:287:SER:N	2:RE:290:GLU:OE2	2.50	0.44
3:RF:186:THR:HB	3:RF:385:PHE:CZ	2.51	0.44
2:RG:329:ASN:HA	2:RG:332:ILE:HG12	1.99	0.44
3:RH:323:MET:HA	3:RH:326:VAL:HG12	1.98	0.44
3:RH:404:ASP:N	3:RH:404:ASP:OD1	2.50	0.44
2:RI:54:SER:H	2:RI:62:VAL:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RI:369:ALA:HB3	2:RI:371:VAL:HG23	2.00	0.44
2:SE:139:HIS:CE1	2:SE:168:GLU:HB3	2.52	0.44
2:SE:220:GLU:HG2	2:SE:221:ARG:HG2	1.98	0.44
3:SF:169:VAL:HG23	3:SF:202:ILE:HG22	2.00	0.44
3:SH:86:ARG:HB2	3:SH:88:ASP:OD1	2.16	0.44
3:SH:295:ASP:HB2	3:SH:298:ASN:HB2	2.00	0.44
2:SI:149:PHE:HA	2:SI:152:LEU:HD12	2.00	0.44
3:SJ:51:TYR:CD1	3:SJ:61:PRO:HA	2.52	0.44
3:TH:134:GLN:OE1	3:TH:134:GLN:N	2.47	0.44
3:TJ:330:MET:SD	3:TJ:351:THR:HG21	2.57	0.44
3:UD:269:GLY:O	3:UD:367:PHE:N	2.49	0.44
2:UE:52:PHE:HE2	2:UE:243:ARG:HG2	1.83	0.44
3:UF:179:VAL:O	3:UF:182:PRO:HD2	2.17	0.44
3:UF:344:TRP:CH2	2:UG:401:LYS:HB2	2.53	0.44
2:UG:216:ASN:OD1	2:UG:217:LEU:N	2.45	0.44
2:UG:264:ARG:O	2:UG:266:HIS:ND1	2.50	0.44
3:VD:221:THR:OG1	3:VD:224:ASP:N	2.48	0.44
2:VE:35:GLN:HG2	2:VE:59:GLY:O	2.17	0.44
2:VE:107:HIS:CD2	2:VE:152:LEU:HB2	2.52	0.44
3:VF:8:GLN:NE2	3:VF:10:GLY:O	2.50	0.44
3:VF:46:ARG:HD3	3:VF:46:ARG:HA	1.70	0.44
2:VG:6:SER:O	2:VG:65:ALA:HA	2.17	0.44
3:VH:179:VAL:O	3:VH:182:PRO:HD2	2.17	0.44
3:WF:311:LEU:HD13	3:WF:342:VAL:HG21	1.99	0.44
2:WG:5:ILE:HD13	2:WG:64:ARG:HB3	1.99	0.44
2:WG:420:GLU:HA	2:WG:423:GLU:OE2	2.17	0.44
2:WI:201:ALA:O	2:WI:267:PHE:HA	2.18	0.44
2:WI:216:ASN:HD21	2:WI:275:VAL:HG23	1.81	0.44
22:XC:80:ILE:HD12	22:XC:161:ARG:O	2.18	0.44
22:XC:102:ARG:O	22:XC:118:ILE:HA	2.17	0.44
23:XK:126:ILE:HD12	23:XK:126:ILE:H	1.82	0.44
23:XK:131:PRO:O	23:XK:134:ILE:HG12	2.17	0.44
23:XK:157:GLN:OE1	23:XK:212:THR:HA	2.17	0.44
24:YI:90:THR:OG1	24:YI:162:VAL:HG11	2.17	0.44
24:YI:120:GLU:HG2	24:YI:123:ASN:HB2	1.98	0.44
24:YL:4:VAL:HG21	24:YL:83:PHE:CE1	2.53	0.44
24:YL:93:THR:HB	24:YL:151:TRP:HE1	1.82	0.44
24:YM:146:ASP:HA	24:YM:149:LYS:NZ	2.32	0.44
2:AG:407:TRP:O	2:AG:411:GLU:HG3	2.16	0.44
2:AI:89:PRO:HG2	2:BI:280:LYS:CD	2.48	0.44
2:AI:113:GLU:HG2	2:AI:114:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B2:119:LEU:O	4:B2:122:SER:OG	2.28	0.44
4:B7:84:ASP:OD1	7:E2:180:ALA:HB3	2.16	0.44
4:B7:403:LYS:O	4:B7:405:VAL:N	2.50	0.44
2:BE:196:GLU:OE1	2:BE:196:GLU:N	2.36	0.44
3:BF:1:MET:HG2	3:BF:3:GLU:OE1	2.17	0.44
3:BF:418:LEU:HD23	3:BF:418:LEU:HA	1.81	0.44
2:BG:174:ALA:HA	2:BG:205:ASP:OD2	2.17	0.44
2:BG:196:GLU:N	2:BG:196:GLU:OE1	2.34	0.44
3:BH:286:VAL:HG11	3:BH:325:GLU:HB2	1.98	0.44
3:BH:356:ILE:HG23	11:H4:6:LYS:HZ3	1.82	0.44
2:BI:176:GLN:HB3	2:BI:390:ARG:HH12	1.82	0.44
2:BI:428:LEU:HD23	2:BI:428:LEU:HA	1.83	0.44
5:C2:120:LEU:O	5:C2:124:THR:HG23	2.18	0.44
2:CG:389:ALA:HA	2:CG:392:ASP:OD2	2.16	0.44
3:CH:32:PRO:O	3:CH:83:GLN:NE2	2.38	0.44
3:CH:216:LYS:HE2	10:G5:306:VAL:HG22	1.99	0.44
3:CH:331:LEU:HD11	2:CI:176:GLN:OE1	2.17	0.44
3:CH:332:ASN:O	3:CH:336:LYS:HG2	2.17	0.44
2:CI:415:GLU:HA	2:CI:418:PHE:CD2	2.52	0.44
3:CJ:218:THR:OG1	3:CJ:219:THR:N	2.50	0.44
6:D8:243:HIS:O	6:D8:245:SER:N	2.50	0.44
3:DD:350:LYS:HE3	2:DE:181:VAL:HG22	2.00	0.44
3:DF:173:PRO:HA	3:DF:380:ARG:CZ	2.47	0.44
7:E3:62:VAL:O	7:E3:62:VAL:HG23	2.17	0.44
2:EG:172:TYR:N	2:EG:204:VAL:O	2.32	0.44
8:F3:94:ASP:HA	8:F3:97:ARG:CD	2.48	0.44
8:F3:134:MET:O	8:F3:138:THR:HG23	2.17	0.44
8:F6:113:ALA:O	8:F6:117:THR:HG23	2.18	0.44
8:F6:198:ARG:HH12	8:F6:465:ASP:HA	1.83	0.44
8:F7:361:LEU:HD12	8:F7:455:LEU:HD22	1.99	0.44
3:FD:318:ARG:HG2	3:FD:356:ILE:O	2.18	0.44
2:FE:162:GLY:O	2:FE:163:LYS:NZ	2.34	0.44
2:FE:358:GLN:NE2	2:FE:359:PRO:O	2.49	0.44
3:FF:328:GLU:OE1	3:FF:332:ASN:ND2	2.50	0.44
3:FF:355:ASP:OD1	3:FF:356:ILE:N	2.46	0.44
2:FG:104:ALA:HB3	2:FG:411:GLU:OE2	2.16	0.44
2:FG:187:SER:O	2:FG:191:THR:HG23	2.17	0.44
2:FG:352:LYS:NZ	3:FH:178:THR:OG1	2.33	0.44
3:FH:1:MET:HG3	3:FH:3:GLU:OE1	2.18	0.44
9:G1:147:LYS:HB3	9:G1:150:LYS:HZ2	1.82	0.44
10:G5:247:ARG:HH11	10:G5:272:ARG:HH12	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:116:ASP:N	2:GE:116:ASP:OD1	2.49	0.44
2:GE:346:TRP:HZ2	3:GF:391:ARG:HH11	1.66	0.44
3:GH:386:THR:O	3:GH:390:ARG:HG2	2.17	0.44
2:GI:101:ASN:CB	2:GI:182:VAL:HG11	2.47	0.44
11:H3:5:GLN:C	11:H3:6:LYS:HD2	2.38	0.44
11:H3:26:GLN:HG3	11:H3:26:GLN:O	2.17	0.44
11:H4:13:GLU:O	11:H4:15:HIS:HB2	2.17	0.44
2:HE:47:ASP:O	2:HE:49:PHE:N	2.50	0.44
2:HE:141:PHE:CE2	2:HE:172:TYR:HD1	2.36	0.44
3:HF:249:ASP:O	3:HF:252:LYS:HB2	2.16	0.44
2:HG:202:PHE:HD1	2:HG:268:PRO:HD2	1.83	0.44
3:HH:19:LYS:NZ	3:HH:227:HIS:HB2	2.33	0.44
2:HI:144:GLY:N	25:HI:501:GTP:O2B	2.50	0.44
2:HI:402:ARG:HG2	2:HI:402:ARG:O	2.18	0.44
2:IE:207:GLU:HB2	2:IE:304:LYS:NZ	2.33	0.44
25:IE:501:GTP:N3	25:IE:501:GTP:O4'	2.49	0.44
3:IH:12:CYS:SG	25:IH:501:GTP:H5'	2.58	0.44
3:IH:77:ARG:HD2	3:IH:77:ARG:HA	1.70	0.44
3:IH:156:ARG:HD2	3:IH:156:ARG:HA	1.80	0.44
2:II:115:VAL:HG21	2:II:156:ARG:HD3	1.98	0.44
2:II:274:PRO:HG3	2:II:374:ALA:HA	1.98	0.44
3:JD:170:VAL:HG11	3:JD:377:LEU:HD23	1.98	0.44
3:JD:246:LEU:HB2	3:JD:352:ALA:HB1	1.99	0.44
2:JE:260:VAL:HG23	2:JE:265:ILE:O	2.17	0.44
2:JE:304:LYS:HD2	2:JE:304:LYS:N	2.33	0.44
3:JF:7:LEU:HD23	3:JF:135:LEU:HG	1.99	0.44
3:JF:11:GLN:HG3	25:JF:501:GTP:O5'	2.18	0.44
3:JH:274:THR:O	3:JH:279:GLN:NE2	2.49	0.44
3:JH:382:SER:O	3:JH:386:THR:HG23	2.18	0.44
14:K2:398:VAL:HG22	14:K2:402:GLN:NE2	2.33	0.44
14:K2:403:ARG:CZ	16:M2:59:PRO:HB3	2.48	0.44
3:KF:12:CYS:HB3	25:KF:501:GTP:O4'	2.17	0.44
3:KH:137:HIS:O	3:KH:168:SER:HA	2.17	0.44
3:KH:255:VAL:HA	2:KI:407:TRP:CE2	2.53	0.44
15:L2:182:LYS:O	15:L2:182:LYS:HD3	2.18	0.44
15:L3:49:MET:HG2	3:MH:337:ASN:OD1	2.17	0.44
3:LD:118:ASP:OD1	3:LD:121:ARG:NH1	2.50	0.44
3:LF:20:PHE:CZ	3:LF:24:ILE:HD11	2.52	0.44
3:LF:222:TYR:HA	3:LF:225:LEU:HD13	1.99	0.44
2:LG:172:TYR:CD1	2:LG:173:PRO:HD2	2.53	0.44
3:LH:293:MET:HA	3:LH:298:ASN:HD22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:83:TYR:HD1	2:ME:86:LEU:HD12	1.83	0.44
3:MF:113:VAL:HA	3:MF:116:VAL:HG22	1.99	0.44
3:MH:15:GLN:CG	25:MH:501:GTP:C2	2.98	0.44
3:MH:302:ALA:CB	3:MH:377:LEU:HD21	2.45	0.44
2:MI:103:TYR:OH	2:MI:193:THR:HG21	2.17	0.44
2:NE:396:ASP:OD1	2:NE:397:LEU:N	2.48	0.44
3:NH:5:VAL:HG23	3:NH:130:LEU:HD11	1.99	0.44
2:NI:53:PHE:CG	2:NI:61:HIS:HB3	2.52	0.44
2:NI:187:SER:O	2:NI:191:THR:HG23	2.18	0.44
3:OD:51:TYR:HB3	3:OD:59:TYR:HB3	1.99	0.44
2:OE:139:HIS:O	2:OE:170:ALA:HA	2.17	0.44
3:OH:383:GLU:HG2	3:OH:384:GLN:N	2.33	0.44
2:OI:324:VAL:HG22	2:OI:327:ASP:OD2	2.16	0.44
2:OI:431:ASP:O	2:OI:434:GLU:HG2	2.18	0.44
2:PE:189:LEU:HA	2:PE:192:HIS:ND1	2.32	0.44
2:PE:328:VAL:O	2:PE:332:ILE:HG23	2.18	0.44
2:PG:331:ALA:O	2:PG:334:THR:OG1	2.27	0.44
2:PG:427:ALA:HA	2:PG:430:LYS:HG2	1.98	0.44
3:PH:378:PHE:CE1	3:PH:419:VAL:HG22	2.52	0.44
2:QE:211:ASP:HB2	2:QE:215:ARG:HH21	1.83	0.44
3:QF:198:GLU:HA	3:QF:266:PHE:HE2	1.82	0.44
2:QG:82:THR:O	2:QG:85:GLN:NE2	2.44	0.44
2:QG:391:LEU:HA	2:QG:394:LYS:HE3	2.00	0.44
3:QH:8:GLN:HE21	3:QH:14:ASN:N	2.14	0.44
3:QH:32:PRO:C	3:QH:83:GLN:HE21	2.16	0.44
3:QH:47:ILE:HG21	3:QH:59:TYR:CE2	2.53	0.44
3:QH:192:LEU:O	3:QH:196:THR:HG22	2.18	0.44
2:RE:247:ALA:HB3	2:RE:355:ILE:HB	1.98	0.44
3:RF:77:ARG:HD2	3:RF:77:ARG:HA	1.69	0.44
2:RG:288:VAL:HG11	2:RG:327:ASP:HB2	2.00	0.44
2:RI:31:GLN:OE1	2:RI:36:MET:HA	2.18	0.44
2:RI:170:ALA:O	2:RI:203:MET:HA	2.17	0.44
2:RI:280:LYS:HD2	2:RI:280:LYS:HA	1.86	0.44
3:SF:87:PRO:HA	3:SF:90:PHE:CD2	2.53	0.44
2:SG:213:CYS:O	2:SG:218:ASP:N	2.51	0.44
2:SG:247:ALA:HB3	2:SG:355:ILE:HB	1.98	0.44
2:SG:262:TYR:OH	3:SH:391:ARG:O	2.35	0.44
2:SI:47:ASP:HB3	2:SI:49:PHE:CD1	2.53	0.44
3:SJ:109:GLY:O	3:SJ:113:VAL:HG13	2.16	0.44
3:TF:317:PHE:HB3	3:TF:321:MET:SD	2.57	0.44
3:TH:152:ILE:HG13	3:TH:153:SER:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:11:GLN:HA	3:TJ:14:ASN:ND2	2.33	0.44
3:TJ:260:PHE:HB3	3:TJ:262:ARG:NH1	2.33	0.44
2:UG:346:TRP:CD1	2:UG:346:TRP:N	2.84	0.44
3:VD:130:LEU:HB3	3:VD:132:GLY:N	2.32	0.44
2:VE:172:TYR:CD1	2:VE:173:PRO:HD2	2.52	0.44
2:VE:216:ASN:HB2	2:VE:276:ILE:HD12	1.99	0.44
2:VG:107:HIS:CD2	2:VG:152:LEU:HB3	2.52	0.44
2:VG:263:PRO:O	2:VG:264:ARG:HB2	2.18	0.44
3:VH:183:TYR:OH	3:VH:388:MET:SD	2.76	0.44
2:WE:72:PRO:HA	2:WE:75:VAL:HG12	1.99	0.44
2:WE:116:ASP:N	2:WE:116:ASP:OD1	2.49	0.44
3:WF:134:GLN:HB2	3:WF:165:ASN:ND2	2.31	0.44
2:WI:330:ALA:O	2:WI:334:THR:HG23	2.17	0.44
2:WI:408:TYR:HD2	2:WI:418:PHE:HZ	1.66	0.44
22:XE:74:PRO:HD2	22:XE:169:ASP:HA	1.98	0.44
22:XE:105:ALA:HB2	22:XE:121:MET:HE2	1.99	0.44
22:XE:133:GLN:N	22:XE:133:GLN:OE1	2.50	0.44
23:XJ:207:ASP:HA	23:XJ:210:GLN:HE21	1.81	0.44
1:A2:187:VAL:HG21	5:C2:266:ARG:NH2	2.29	0.44
1:A2:374:GLU:O	1:A2:378:VAL:HG23	2.18	0.44
2:AE:28:HIS:CE1	2:AE:243:ARG:HD2	2.53	0.44
2:AG:2:ARG:CZ	2:AG:242:LEU:HA	2.48	0.44
2:AG:263:PRO:HD3	3:AH:396:HIS:CD2	2.52	0.44
3:AH:380:ARG:HB3	3:AH:380:ARG:CZ	2.45	0.44
2:AI:5:ILE:HB	2:AI:135:PHE:CD1	2.52	0.44
2:AI:125:LEU:O	2:AI:128:LEU:HG	2.17	0.44
4:B2:304:LEU:HD11	4:B2:356:LEU:HD11	1.98	0.44
4:B3:108:LEU:O	4:B3:112:VAL:HG23	2.17	0.44
4:B3:151:LEU:O	4:B3:155:ILE:HG12	2.17	0.44
4:B3:378:ALA:O	4:B3:381:THR:OG1	2.31	0.44
4:B8:120:ARG:HA	4:B8:120:ARG:CZ	2.47	0.44
2:BE:396:ASP:OD1	2:BE:397:LEU:N	2.51	0.44
3:BH:21:TRP:CZ3	3:BH:61:PRO:HB3	2.53	0.44
3:BH:180:VAL:HG22	3:BH:183:TYR:HB2	1.99	0.44
3:BH:249:ASP:O	3:BH:253:LEU:HG	2.18	0.44
3:BH:284:LEU:HD12	3:BH:288:GLU:OE2	2.17	0.44
2:BI:338:LYS:HZ3	2:BI:339:ARG:H	1.64	0.44
5:C2:149:ARG:HA	5:C2:152:ASP:OD2	2.17	0.44
5:C3:131:LYS:HD2	5:C3:134:GLN:NE2	2.31	0.44
5:C3:272:GLN:O	5:C3:274:LEU:N	2.44	0.44
5:C3:393:LEU:HD12	5:C3:431:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C3:444:THR:O	5:C3:447:SER:OG	2.20	0.44
5:C7:165:ASP:OD2	6:D8:242:PRO:HD2	2.17	0.44
3:CF:28:HIS:ND1	3:CF:43:GLN:HB2	2.32	0.44
2:CG:88:HIS:HA	2:DE:283:HIS:CE1	2.52	0.44
2:CG:224:TYR:CE1	25:CG:501:GTP:C5	3.03	0.44
2:CI:174:ALA:HB3	2:CI:177:VAL:HB	1.98	0.44
2:CI:209:ILE:HG21	2:CI:227:LEU:HG	1.98	0.44
2:CI:408:TYR:O	2:CI:411:GLU:HG3	2.17	0.44
6:D3:135:LYS:HD3	6:D3:194:ILE:HD11	1.99	0.44
3:DD:167:PHE:CD1	3:DD:233:MET:HE2	2.53	0.44
2:DE:10:GLY:O	2:DE:14:VAL:HG13	2.18	0.44
2:DG:116:ASP:OD1	2:DG:117:LEU:N	2.50	0.44
3:DH:86:ARG:NE	3:DH:86:ARG:HA	2.31	0.44
3:ED:375:GLN:HE21	3:ED:422:TYR:HB3	1.83	0.44
2:EE:70:LEU:HB3	2:EE:97:GLU:O	2.17	0.44
3:EH:228:LEU:HD23	3:EH:228:LEU:HA	1.81	0.44
8:F2:193:GLU:O	8:F2:197:ASN:ND2	2.50	0.44
8:F2:214:ASN:HD21	8:F2:339:THR:CB	2.31	0.44
8:F3:129:GLN:HA	8:F3:132:HIS:NE2	2.33	0.44
8:F6:280:PHE:H	8:F7:393:GLN:CD	2.21	0.44
3:FF:4:ILE:HD11	3:FF:131:GLN:HB2	1.99	0.44
3:FF:18:ALA:O	3:FF:22:GLU:HG3	2.17	0.44
3:FF:350:LYS:NZ	2:FG:181:VAL:HG13	2.32	0.44
2:FG:326:LYS:HA	2:FG:329:ASN:ND2	2.32	0.44
9:G2:277:GLU:HG3	9:G2:288:PHE:O	2.17	0.44
9:G2:471:LYS:HB3	9:G2:484:TYR:CE2	2.52	0.44
10:G5:138:TYR:CE1	10:G5:145:GLN:HG2	2.52	0.44
10:G5:284:LEU:HD12	10:G5:285:PRO:HD2	1.98	0.44
10:G5:466:PHE:HA	10:G5:479:MET:HA	1.99	0.44
3:GD:152:ILE:HA	3:GD:155:ILE:HG12	2.00	0.44
3:GD:274:THR:HG22	3:GD:275:SER:H	1.82	0.44
2:GE:184:PRO:HG3	2:GE:394:LYS:HE2	1.99	0.44
3:GF:289:LEU:HD22	3:GF:363:MET:HB3	2.00	0.44
2:GG:149:PHE:HA	2:GG:152:LEU:HG	1.98	0.44
3:GH:344:TRP:NE1	3:GH:425:TYR:OH	2.43	0.44
2:GI:74:VAL:HA	2:GI:77:GLU:OE1	2.18	0.44
2:GI:88:HIS:CE1	2:HI:280:LYS:HZ1	2.35	0.44
11:H3:212:LEU:HG	11:H3:213:ILE:N	2.32	0.44
11:H4:232:MET:HG3	11:H4:233:GLY:N	2.25	0.44
3:HD:324:LYS:HE2	2:HE:222:PRO:HD2	2.00	0.44
3:HF:40:SER:O	3:HF:43:GLN:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HG:21:TRP:HA	2:HG:24:TYR:HD2	1.82	0.44
3:HH:99:ASN:CB	3:HH:142:GLY:HA3	2.47	0.44
2:IE:223:THR:OG1	2:IE:225:THR:OG1	2.28	0.44
2:IG:73:THR:OG1	2:IG:74:VAL:N	2.51	0.44
2:IG:99:ALA:H	2:IG:145:THR:HG22	1.82	0.44
3:IH:210:ILE:O	3:IH:214:THR:HG22	2.16	0.44
3:IH:246:LEU:HD13	3:IH:354:CYS:N	2.32	0.44
2:II:32:PRO:HA	2:II:86:LEU:HD11	2.00	0.44
2:II:206:ASN:OD1	2:II:206:ASN:N	2.50	0.44
13:J2:19:TYR:HA	13:J2:139:ARG:HH21	1.82	0.44
3:JD:117:LEU:HD11	3:JD:154:LYS:HD2	1.99	0.44
3:JF:21:TRP:CZ3	3:JF:51:TYR:HE1	2.36	0.44
2:JG:229:ARG:NH1	2:JG:233:GLN:HB2	2.32	0.44
14:K2:176:GLN:HB3	14:K2:180:LYS:HZ3	1.82	0.44
14:K2:461:VAL:O	14:K2:465:LEU:HG	2.18	0.44
14:K3:154:LEU:HA	14:K3:157:GLN:OE1	2.17	0.44
14:K3:425:HIS:CE1	14:K4:109:LEU:HD11	2.52	0.44
3:KD:142:GLY:O	3:KD:145:SER:OG	2.27	0.44
2:KE:169:PHE:HE1	2:KE:202:PHE:CD2	2.36	0.44
3:KF:36:TYR:CE2	3:KF:38:GLY:HA2	2.51	0.44
3:KF:61:PRO:HD3	3:KF:84:ILE:HG13	1.99	0.44
3:KF:67:ASP:OD2	3:KF:72:THR:OG1	2.24	0.44
2:KG:181:VAL:O	2:KG:184:PRO:HD2	2.18	0.44
2:KG:263:PRO:HB2	2:KG:264:ARG:NH1	2.32	0.44
2:KG:330:ALA:O	2:KG:334:THR:HG23	2.18	0.44
2:KG:392:ASP:OD1	2:KG:393:HIS:N	2.51	0.44
3:KH:238:THR:HG21	3:KH:318:ARG:CZ	2.48	0.44
2:KI:338:LYS:HZ2	2:KI:339:ARG:N	2.15	0.44
2:LE:398:MET:HA	2:LE:401:LYS:HG2	1.98	0.44
2:LG:15:GLN:NE2	2:LG:224:TYR:CE2	2.85	0.44
2:LG:161:TYR:CD1	18:O2:22:TRP:HB2	2.52	0.44
2:LG:230:LEU:O	2:LG:234:ILE:HG12	2.17	0.44
2:LI:174:ALA:HB3	2:LI:177:VAL:O	2.18	0.44
2:LI:323:VAL:HG21	2:LI:355:ILE:HD12	1.98	0.44
16:M3:98:HIS:O	16:M3:98:HIS:ND1	2.51	0.44
3:MF:39:ASP:OD1	3:MF:43:GLN:NE2	2.50	0.44
2:MG:372:GLN:HB3	2:MG:373:ARG:NH1	2.33	0.44
17:N3:78:LEU:HD11	17:N3:96:GLN:HG3	1.99	0.44
3:ND:411:ALA:O	3:ND:415:MET:HG2	2.17	0.44
2:NE:243:ARG:HH21	2:NE:320:ARG:HH22	1.65	0.44
3:NF:203:ASP:O	3:NF:207:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:143:THR:HG22	3:NH:147:MET:CE	2.47	0.44
3:OD:7:LEU:HB2	3:OD:135:LEU:HG	1.99	0.44
3:OD:114:ASP:N	3:OD:114:ASP:OD1	2.50	0.44
2:OE:235:VAL:HA	2:OE:238:ILE:HG12	1.98	0.44
2:OE:257:THR:HG22	3:OF:397:TRP:NE1	2.33	0.44
3:OF:144:GLY:HA2	3:OF:147:MET:SD	2.57	0.44
3:OF:311:LEU:O	3:OF:345:ILE:HG21	2.18	0.44
3:OH:52:ASN:CG	3:OH:62:ARG:HH11	2.21	0.44
3:OH:164:MET:O	3:OH:196:THR:OG1	2.35	0.44
3:OH:419:VAL:CG1	3:OH:423:GLN:HE22	2.31	0.44
2:OI:242:LEU:HD12	2:OI:242:LEU:H	1.82	0.44
19:P1:272:LEU:HD11	19:P1:286:LYS:HG2	1.99	0.44
19:P2:331:HIS:CE1	19:P2:357:ARG:HG3	2.53	0.44
19:P2:593:MET:HB3	19:P2:602:ILE:HD11	1.99	0.44
3:PF:86:ARG:NE	3:PF:86:ARG:HA	2.31	0.44
3:PF:271:ALA:HB1	3:PF:272:PRO:HD2	1.99	0.44
3:PF:325:GLU:HA	3:PF:328:GLU:HG3	1.98	0.44
2:PG:46:ASP:HA	2:PG:50:ASN:HB3	1.98	0.44
2:PI:216:ASN:ND2	2:PI:275:VAL:HG23	2.33	0.44
20:Q2:1387:ASP:HB2	20:Q2:1392:GLY:HA2	2.00	0.44
2:QE:185:TYR:CG	2:QE:395:PHE:HE1	2.36	0.44
3:QF:31:ASP:OD2	3:QF:33:THR:OG1	2.32	0.44
3:QF:188:SER:O	3:QF:192:LEU:HG	2.17	0.44
2:QG:286:LEU:HG	2:QG:373:ARG:HH11	1.82	0.44
3:QH:8:GLN:HE21	3:QH:13:GLY:C	2.21	0.44
3:QH:378:PHE:HE1	3:QH:419:VAL:HG13	1.83	0.44
2:QI:156:ARG:HA	2:QI:159:VAL:HG22	1.99	0.44
3:RF:189:VAL:HA	3:RF:192:LEU:HB3	2.00	0.44
3:RF:334:GLN:O	3:RF:338:SER:OG	2.13	0.44
2:RG:118:VAL:O	2:RG:122:ILE:HG23	2.17	0.44
2:RG:263:PRO:O	2:RG:264:ARG:HB2	2.17	0.44
2:RG:288:VAL:HA	2:RG:291:ILE:HG12	2.00	0.44
3:RH:246:LEU:CB	3:RH:353:VAL:H	2.28	0.44
3:RH:324:LYS:HE3	3:RH:324:LYS:HB3	1.80	0.44
3:SF:323:MET:O	3:SF:326:VAL:HG12	2.17	0.44
2:SG:263:PRO:O	2:SG:264:ARG:HB2	2.18	0.44
2:SG:386:GLU:N	2:SG:386:GLU:OE1	2.51	0.44
2:SG:397:LEU:O	2:SG:401:LYS:HG2	2.17	0.44
2:SI:202:PHE:HE1	2:SI:268:PRO:HG2	1.83	0.44
3:SJ:182:PRO:HB3	3:SJ:381:ILE:HD11	2.00	0.44
3:SJ:229:VAL:O	3:SJ:232:THR:OG1	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:244:GLY:HA3	3:TF:355:ASP:H	1.82	0.44
2:TG:285:GLN:NE2	2:TG:286:LEU:O	2.50	0.44
2:TG:297:GLU:CD	2:TG:299:ALA:H	2.21	0.44
2:TG:398:MET:HA	2:TG:401:LYS:HG2	2.00	0.44
2:TI:280:LYS:HA	2:TI:280:LYS:HD2	1.77	0.44
3:UD:5:VAL:HB	3:UD:133:PHE:CD1	2.53	0.44
3:UD:6:HIS:HE1	3:UD:8:GLN:HB3	1.81	0.44
2:UE:415:GLU:HA	2:UE:418:PHE:HD1	1.82	0.44
3:UF:4:ILE:HB	3:UF:50:TYR:CE1	2.52	0.44
3:UF:31:ASP:HB3	3:UF:37:HIS:NE2	2.32	0.44
3:UF:87:PRO:HA	3:UF:90:PHE:CD2	2.52	0.44
2:VE:348:PRO:HG2	3:VF:384:GLN:OE1	2.17	0.44
3:VF:164:MET:HE1	3:VF:196:THR:HA	1.98	0.44
3:VF:217:LEU:O	3:VF:219:THR:N	2.46	0.44
3:VF:279:GLN:HG2	3:VF:280:GLN:H	1.82	0.44
2:VG:202:PHE:CE1	2:VG:268:PRO:HD2	2.53	0.44
2:VG:255:PHE:HA	2:VG:259:LEU:HD23	1.98	0.44
3:VH:68:LEU:HB3	3:VH:95:SER:O	2.17	0.44
3:VH:395:LEU:O	3:VH:399:THR:HG23	2.17	0.44
2:WE:252:LEU:HD12	2:WE:253:THR:N	2.31	0.44
2:WE:430:LYS:O	2:WE:434:GLU:HG3	2.17	0.44
3:WF:1:MET:O	3:WF:129:CYS:HB2	2.17	0.44
3:WF:275:SER:N	3:WF:278:SER:OG	2.42	0.44
3:WF:289:LEU:O	3:WF:293:MET:HB2	2.17	0.44
2:WG:11:GLN:HG2	25:WG:501:GTP:O1B	2.18	0.44
2:WG:46:ASP:HA	2:WG:50:ASN:HB3	1.99	0.44
3:WH:11:GLN:HE21	25:WH:501:GTP:H3'	1.82	0.44
3:WH:169:VAL:HG23	3:WH:202:ILE:HB	1.98	0.44
3:WH:273:LEU:N	3:WH:292:GLN:HE22	2.06	0.44
2:WI:137:ILE:HB	2:WI:168:GLU:HA	1.99	0.44
2:WI:220:GLU:C	2:WI:221:ARG:HE	2.21	0.44
2:WI:420:GLU:HA	2:WI:423:GLU:OE2	2.17	0.44
22:XC:83:LEU:O	22:XC:85:LYS:NZ	2.29	0.44
22:XE:71:ILE:HB	22:XE:151:THR:OG1	2.17	0.44
23:XJ:126:ILE:HD12	23:XJ:126:ILE:H	1.82	0.44
24:YI:144:VAL:O	24:YI:148:MET:HG2	2.18	0.44
1:A2:336:ARG:HH22	1:A3:59:VAL:CA	2.30	0.44
1:A3:93:THR:O	1:A3:96:THR:OG1	2.24	0.44
2:AE:99:ALA:O	2:AE:105:ARG:HD3	2.17	0.44
2:AE:166:LYS:N	2:AE:199:ASP:OD2	2.50	0.44
2:AE:415:GLU:OE2	22:XC:86:TYR:OH	2.22	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:3:GLU:OE2	3:AF:129:CYS:N	2.50	0.44
2:AG:402:ARG:HG2	23:XJ:233:PRO:HB2	1.98	0.44
2:AG:416:GLY:O	2:AG:420:GLU:HG2	2.18	0.44
3:AH:215:LEU:O	3:AH:276:ARG:NH1	2.51	0.44
4:B3:211:ASP:OD1	4:B3:211:ASP:N	2.49	0.44
4:B8:124:ARG:NE	6:D7:333:GLU:OE2	2.51	0.44
2:BE:239:THR:O	2:BE:243:ARG:HG3	2.17	0.44
3:BH:113:VAL:O	3:BH:116:VAL:HG22	2.18	0.44
3:BH:142:GLY:N	25:BH:501:GTP:O3B	2.51	0.44
2:BI:54:SER:OG	2:BI:64:ARG:NE	2.51	0.44
5:C2:287:VAL:O	5:C2:287:VAL:HG13	2.17	0.44
5:C2:297:PRO:HA	5:C2:300:TRP:HD1	1.82	0.44
5:C3:119:ARG:HD3	13:J3:96:MET:SD	2.58	0.44
5:C7:113:SER:HA	5:C7:116:ASN:HD22	1.81	0.44
5:C7:244:LEU:HA	5:C7:247:ASP:OD2	2.18	0.44
2:CG:84:ARG:HD3	2:CG:85:GLN:OE1	2.17	0.44
2:CG:154:MET:HA	2:CG:157:LEU:HG	2.00	0.44
2:CG:214:ARG:HH12	2:CG:215:ARG:HG3	1.80	0.44
2:CI:208:ALA:H	2:CI:304:LYS:NZ	2.15	0.44
2:CI:224:TYR:CE1	25:CI:501:GTP:C5	2.93	0.44
3:CJ:132:GLY:HA3	3:CJ:163:ILE:O	2.17	0.44
3:CJ:192:LEU:O	3:CJ:196:THR:HB	2.18	0.44
6:D2:25:LYS:O	6:D2:28:GLU:HG3	2.18	0.44
6:D2:32:ASN:OD1	6:D2:38:SER:HA	2.17	0.44
6:D3:389:ARG:O	6:D3:392:LYS:HG2	2.17	0.44
6:D3:402:LEU:O	6:D3:405:LEU:HB2	2.17	0.44
6:D4:356:ARG:HG2	6:D4:356:ARG:NH1	2.33	0.44
6:D7:351:ARG:HG2	6:D8:238:VAL:HG13	2.00	0.44
6:D8:407:ASP:O	6:D8:410:MET:HG3	2.17	0.44
3:DD:42:LEU:O	3:DD:45:GLU:HB3	2.17	0.44
3:DD:117:LEU:HA	3:DD:120:VAL:HG12	2.00	0.44
2:DE:396:ASP:OD1	2:DE:397:LEU:N	2.51	0.44
2:DG:306:ASP:OD2	2:DG:309:HIS:ND1	2.49	0.44
3:DH:271:ALA:HB2	3:DH:365:ALA:O	2.18	0.44
2:EE:113:GLU:OE1	2:EE:113:GLU:N	2.47	0.44
2:EE:301:GLN:OE1	2:EE:301:GLN:N	2.50	0.44
3:EF:65:LEU:HD13	3:EF:90:PHE:HE1	1.83	0.44
3:EH:113:VAL:HA	3:EH:116:VAL:HG22	1.99	0.44
3:EH:237:THR:O	3:EH:241:ARG:NH1	2.50	0.44
8:F7:385:LYS:O	8:F7:388:PRO:HD2	2.18	0.44
3:FD:86:ARG:NE	3:FD:86:ARG:HA	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:205:ASP:N	2:FE:302:MET:O	2.51	0.44
3:FF:166:THR:OG1	3:FF:199:THR:HG22	2.17	0.44
3:FH:101:TRP:CE3	3:FH:187:LEU:HD13	2.52	0.44
9:G2:132:SER:HB3	9:G2:147:LYS:HE2	1.99	0.44
3:GF:6:HIS:O	3:GF:63:ALA:HA	2.16	0.44
2:GG:276:ILE:HG13	2:GG:280:LYS:HB3	1.99	0.44
3:GH:249:ASP:OD2	3:GH:251:ARG:HB3	2.17	0.44
2:GI:206:ASN:N	2:GI:206:ASN:OD1	2.50	0.44
11:H3:13:GLU:CB	11:H3:14:PRO:CD	2.94	0.44
11:H3:288:PHE:CZ	11:H3:290:PRO:HA	2.53	0.44
11:H3:292:MET:CG	11:H3:293:GLN:H	2.24	0.44
11:H3:311:GLU:O	11:H3:316:SER:HA	2.18	0.44
3:HD:324:LYS:HE2	2:HE:222:PRO:CD	2.47	0.44
2:HG:235:VAL:O	2:HG:238:ILE:HG12	2.17	0.44
3:HH:380:ARG:O	3:HH:384:GLN:HG2	2.18	0.44
2:HI:5:ILE:HB	2:HI:135:PHE:CD1	2.52	0.44
2:HI:101:ASN:OD1	2:HI:144:GLY:HA2	2.17	0.44
2:IE:287:SER:N	2:IE:290:GLU:OE2	2.49	0.44
3:IH:20:PHE:CZ	3:IH:24:ILE:HD11	2.53	0.44
3:IH:40:SER:HB2	3:IH:43:GLN:CG	2.47	0.44
3:IH:61:PRO:HD3	3:IH:84:ILE:HG22	2.00	0.44
2:II:103:TYR:OH	2:II:193:THR:HG21	2.18	0.44
3:JD:292:GLN:HA	3:JD:295:ASP:OD2	2.18	0.44
2:JE:214:ARG:NH1	2:JE:215:ARG:HG3	2.33	0.44
2:JE:268:PRO:C	2:JE:269:LEU:HD12	2.38	0.44
2:JE:419:SER:O	2:JE:422:ARG:HG2	2.17	0.44
3:JF:211:CYS:SG	3:JF:220:PRO:HG3	2.58	0.44
3:JH:257:MET:CE	3:JH:314:ALA:HB2	2.48	0.44
3:JH:361:LEU:H	3:JH:361:LEU:HD23	1.82	0.44
14:K2:362:HIS:HA	14:K2:365:MET:HG3	2.00	0.44
14:K3:123:ALA:O	14:K3:126:VAL:HG12	2.18	0.44
14:K3:420:ASP:O	14:K3:424:ARG:HG3	2.17	0.44
3:KF:86:ARG:NE	3:KF:86:ARG:HA	2.32	0.44
3:KH:228:LEU:O	3:KH:232:THR:HG23	2.17	0.44
2:KI:189:LEU:HA	2:KI:192:HIS:HE1	1.75	0.44
15:L2:31:PHE:CZ	2:ME:386:GLU:HA	2.52	0.44
15:L2:148:LYS:H	15:L2:151:TYR:HE2	1.63	0.44
2:LE:51:THR:HG23	2:LE:52:PHE:CD1	2.52	0.44
2:LE:195:LEU:HD12	2:LE:196:GLU:HG2	1.99	0.44
3:LF:3:GLU:O	3:LF:130:LEU:HD13	2.18	0.44
3:LF:36:TYR:CE2	3:LF:44:LEU:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:192:LEU:O	3:LH:196:THR:HG22	2.18	0.44
16:M2:53:PRO:HD2	16:M2:89:PHE:HE2	1.81	0.44
2:ME:414:GLU:OE1	2:ME:414:GLU:N	2.50	0.44
3:MF:318:ARG:HG2	3:MF:356:ILE:O	2.18	0.44
2:MG:121:ARG:HA	2:MG:124:LYS:HG3	1.99	0.44
2:MG:377:MET:SD	2:MG:379:SER:HB3	2.58	0.44
3:MH:278:SER:HA	3:MH:281:TYR:HB2	1.99	0.44
17:N2:99:ILE:HG13	17:N2:100:GLU:N	2.27	0.44
2:NE:45:GLY:HA2	2:NE:49:PHE:HE1	1.81	0.44
2:NG:438:ASP:HA	3:NH:391:ARG:HH12	1.83	0.44
3:NH:109:GLY:O	3:NH:113:VAL:HG13	2.17	0.44
3:NH:113:VAL:HA	3:NH:116:VAL:HG22	1.98	0.44
2:NI:145:THR:HG23	25:NI:501:GTP:O2G	2.16	0.44
2:OE:3:GLU:CD	2:OE:132:LEU:H	2.20	0.44
2:OE:120:ASP:HA	2:OE:123:ARG:HG2	2.00	0.44
2:OE:255:PHE:HA	2:OE:259:LEU:HD23	1.99	0.44
2:OE:319:TYR:HA	2:OE:374:ALA:O	2.18	0.44
3:OF:52:ASN:O	3:OF:60:VAL:N	2.48	0.44
3:OF:313:VAL:HB	3:OF:367:PHE:HE1	1.81	0.44
2:OG:211:ASP:CB	2:OG:215:ARG:HH21	2.31	0.44
2:OI:30:ILE:HA	2:OI:36:MET:CE	2.48	0.44
2:OI:139:HIS:CE1	2:OI:168:GLU:HB3	2.52	0.44
2:OI:235:VAL:HA	2:OI:238:ILE:HG12	2.00	0.44
19:P1:43:LEU:N	19:P1:46:THR:O	2.35	0.44
19:P1:397:LYS:HD3	19:P1:413:ASN:HA	1.98	0.44
19:P2:118:ALA:HB1	19:P2:166:PHE:HD2	1.82	0.44
19:P2:387:LYS:O	19:P2:403:PRO:HD3	2.17	0.44
19:P2:412:ILE:HG22	19:P2:415:ALA:HB2	2.00	0.44
3:PF:167:PHE:CE2	3:PF:233:MET:SD	3.11	0.44
2:PG:88:HIS:CE1	2:PG:121:ARG:HH22	2.36	0.44
2:PG:306:ASP:CG	2:PG:309:HIS:HD1	2.18	0.44
3:PH:5:VAL:HG23	3:PH:130:LEU:HD11	1.98	0.44
2:PI:246:GLY:HA3	2:PI:356:ASN:HA	1.98	0.44
2:PI:297:GLU:OE1	2:PI:300:ASN:N	2.51	0.44
2:PI:311:LYS:HE3	2:PI:344:VAL:HA	1.98	0.44
20:Q1:1407:LEU:HD21	20:Q1:1515:LEU:C	2.38	0.44
20:Q1:1471:VAL:HB	20:Q1:1475:ARG:HH21	1.83	0.44
20:Q2:1411:GLU:HG2	20:Q2:1413:SER:H	1.82	0.44
20:Q2:1468:LEU:HB3	20:Q2:1504:LYS:C	2.37	0.44
2:QE:88:HIS:CE1	2:QE:90:GLU:HG2	2.53	0.44
2:QE:125:LEU:O	2:QE:128:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:263:PRO:O	2:QE:264:ARG:HB2	2.16	0.44
2:QE:297:GLU:CD	2:QE:299:ALA:H	2.21	0.44
3:QF:253:LEU:O	3:QF:257:MET:HG2	2.17	0.44
3:QH:16:ILE:HG21	3:QH:167:PHE:HE2	1.82	0.44
3:QH:292:GLN:HG2	3:QH:298:ASN:ND2	2.33	0.44
3:RF:119:VAL:HA	3:RF:122:LYS:HE2	1.99	0.44
3:RF:135:LEU:HD21	3:RF:151:LEU:HD11	1.99	0.44
3:RF:280:GLN:OE1	3:RF:280:GLN:N	2.45	0.44
3:RF:334:GLN:HA	3:RF:341:PHE:CE2	2.53	0.44
3:RF:395:LEU:HD23	3:RF:399:THR:HG23	1.99	0.44
2:RG:3:GLU:H	2:RG:133:GLN:HE22	1.66	0.44
2:RG:102:ASN:ND2	2:RG:411:GLU:HG2	2.33	0.44
2:RG:346:TRP:O	2:RG:348:PRO:HD3	2.17	0.44
3:RH:247:ASN:OD1	2:RI:11:GLN:NE2	2.51	0.44
3:RH:421:GLU:HG2	3:RH:425:TYR:CE1	2.53	0.44
2:RI:349:THR:HG23	3:RJ:179:VAL:HG12	1.99	0.44
2:RI:396:ASP:HB3	2:RI:422:ARG:CZ	2.48	0.44
3:RJ:249:ASP:O	3:RJ:253:LEU:HG	2.17	0.44
3:RJ:264:HIS:HA	3:RJ:266:PHE:CZ	2.52	0.44
3:SH:88:ASP:OD1	3:SH:89:ASN:ND2	2.50	0.44
3:SH:381:ILE:HG22	3:SH:385:PHE:CZ	2.52	0.44
2:SI:166:LYS:HB3	2:SI:168:GLU:OE2	2.18	0.44
2:SI:295:CYS:HB2	2:SI:377:MET:HG2	1.98	0.44
3:SJ:282:ARG:NH2	3:SJ:288:GLU:OE1	2.43	0.44
3:TH:51:TYR:CD1	3:TH:61:PRO:HA	2.51	0.44
2:TI:269:LEU:O	2:TI:378:LEU:HA	2.17	0.44
3:UD:205:GLU:HA	3:UD:208:TYR:CD2	2.53	0.44
3:UD:267:MET:HB2	3:UD:301:ALA:CB	2.47	0.44
2:UG:346:TRP:CD1	3:UH:390:ARG:NH2	2.85	0.44
3:VD:266:PHE:O	3:VD:268:PRO:HD3	2.17	0.44
3:VD:374:ILE:HG22	3:VD:378:PHE:CD2	2.50	0.44
2:VE:426:ALA:O	2:VE:430:LYS:HG2	2.18	0.44
2:VG:139:HIS:CD2	2:VG:170:ALA:HB2	2.52	0.44
2:VG:172:TYR:CD1	2:VG:173:PRO:HD2	2.53	0.44
2:VG:330:ALA:O	2:VG:334:THR:HG23	2.18	0.44
3:VH:71:GLY:HA2	3:VH:74:ASP:OD2	2.17	0.44
3:VH:386:THR:O	3:VH:390:ARG:NH1	2.50	0.44
3:WF:42:LEU:HD11	3:WF:356:ILE:HG13	1.99	0.44
2:WG:245:ASP:O	2:WG:356:ASN:ND2	2.51	0.44
2:WI:316:CYS:HA	2:WI:352:LYS:O	2.18	0.44
22:XC:25:TRP:HB3	22:XC:59:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XC:36:ARG:HB3	22:XC:45:LEU:HD21	2.00	0.44
22:XD:34:ILE:O	22:XD:34:ILE:HG13	2.17	0.44
23:XJ:139:ASN:O	23:XJ:143:LEU:HG	2.18	0.44
23:XK:116:HIS:NE2	23:XK:158:HIS:HB3	2.32	0.44
23:XK:208:LEU:O	23:XK:212:THR:HG23	2.17	0.44
23:XK:225:PHE:CE1	23:XK:229:LYS:HD3	2.52	0.44
24:YL:48:GLN:HG3	24:YL:52:TYR:CZ	2.52	0.44
1:A2:169:TYR:CD2	9:G1:196:SER:HA	2.53	0.44
2:AE:239:THR:OG1	2:AE:243:ARG:NH1	2.42	0.44
2:AE:261:PRO:HA	3:AF:394:PHE:CE1	2.53	0.44
2:AE:389:ALA:HA	2:AE:392:ASP:OD2	2.18	0.44
2:AG:255:PHE:O	2:AG:259:LEU:HB2	2.17	0.44
2:AG:431:ASP:O	2:AG:435:VAL:HG22	2.18	0.44
2:AI:52:PHE:HE2	2:AI:243:ARG:HH11	1.65	0.44
2:AI:150:ALA:HA	2:AI:153:LEU:HG	2.00	0.44
2:AI:208:ALA:HB2	2:AI:304:LYS:HE3	1.99	0.44
4:B7:7:LYS:O	4:B7:9:SER:N	2.51	0.44
2:BE:50:ASN:O	2:BE:64:ARG:NH1	2.50	0.44
3:BF:180:VAL:HG21	3:BF:398:TYR:OH	2.18	0.44
3:BH:3:GLU:HG2	3:BH:130:LEU:HD23	1.98	0.44
5:C7:284:PHE:HE1	5:C8:397:GLN:C	2.20	0.44
2:CG:165:SER:C	2:CG:166:LYS:HD2	2.38	0.44
2:CG:319:TYR:HE2	2:CG:328:VAL:HG22	1.83	0.44
2:CI:115:VAL:HA	2:CI:118:VAL:HG12	1.98	0.44
2:CI:184:PRO:HB2	2:CI:398:MET:HE2	1.98	0.44
2:CI:369:ALA:O	2:CI:371:VAL:N	2.51	0.44
3:CJ:3:GLU:HB2	3:CJ:62:ARG:NH2	2.32	0.44
3:CJ:294:PHE:HE2	3:CJ:337:ASN:HD21	1.66	0.44
6:D3:214:ASN:O	6:D3:218:LYS:HG2	2.17	0.44
6:D3:286:LEU:HD21	6:D3:444:ALA:HA	1.98	0.44
6:D8:76:ARG:O	6:D8:80:GLU:OE1	2.36	0.44
6:D8:320:TYR:HA	6:D8:323:ARG:NH2	2.33	0.44
6:D8:351:ARG:HD2	6:D9:238:VAL:HG13	2.00	0.44
3:DD:58:LYS:HD3	3:DD:59:TYR:N	2.33	0.44
2:DE:311:LYS:HZ1	2:DE:342:GLN:HB3	1.81	0.44
3:DF:282:ARG:HH22	3:DF:292:GLN:CD	2.20	0.44
2:DG:348:PRO:HG2	3:DH:384:GLN:OE1	2.18	0.44
3:DH:394:PHE:HD1	3:DH:397:TRP:HZ3	1.66	0.44
3:ED:15:GLN:HA	3:ED:15:GLN:OE1	2.16	0.44
3:ED:30:ILE:HG13	3:ED:36:TYR:HD1	1.82	0.44
2:EE:132:LEU:HD12	2:EE:132:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:207:GLU:HB2	2:EE:304:LYS:HZ3	1.80	0.44
2:EE:211:ASP:HA	2:EE:214:ARG:NE	2.33	0.44
2:EE:344:VAL:HG23	2:EE:346:TRP:H	1.83	0.44
2:EE:349:THR:OG1	3:EF:175:VAL:HG23	2.18	0.44
3:EF:6:HIS:HE1	3:EF:8:GLN:HB3	1.82	0.44
3:EF:85:PHE:O	3:EF:86:ARG:NH2	2.50	0.44
3:EF:271:ALA:HB1	3:EF:272:PRO:CD	2.47	0.44
3:EF:275:SER:OG	3:EF:276:ARG:N	2.51	0.44
3:EF:415:MET:O	3:EF:419:VAL:HG23	2.17	0.44
2:EG:5:ILE:O	2:EG:135:PHE:HA	2.17	0.44
2:EG:15:GLN:CG	25:EG:501:GTP:HN1	2.31	0.44
2:EG:113:GLU:HG2	2:EG:114:ILE:HG23	2.00	0.44
2:EG:235:VAL:O	2:EG:238:ILE:HG22	2.17	0.44
3:EH:8:GLN:HG2	3:EH:65:LEU:HA	1.99	0.44
3:EH:206:ALA:O	3:EH:210:ILE:HG12	2.18	0.44
8:F2:436:GLU:O	8:F2:440:THR:HG23	2.18	0.44
8:F2:470:MET:HG2	8:F2:473:ARG:NH2	2.33	0.44
2:FE:331:ALA:O	2:FE:334:THR:OG1	2.28	0.44
3:FF:347:ASN:HB3	2:FG:178:SER:HB3	1.99	0.44
2:FG:226:ASN:ND2	2:FG:229:ARG:HH21	2.16	0.44
3:FH:74:ASP:OD1	3:FH:77:ARG:NH1	2.51	0.44
3:FH:130:LEU:HD23	3:FH:162:ARG:HD2	1.99	0.44
3:FH:218:THR:HB	9:G2:458:ASN:OD1	2.17	0.44
9:G1:474:LYS:NZ	9:G1:489:ASP:OD2	2.44	0.44
9:G2:134:ILE:HG13	9:G2:147:LYS:HD2	2.00	0.44
9:G2:227:SER:OG	9:G2:228:ASP:N	2.49	0.44
3:GD:136:THR:HG22	3:GD:167:PHE:HB3	1.98	0.44
2:GE:91:GLN:HG3	2:GE:121:ARG:HH21	1.83	0.44
2:GE:368:LEU:HD23	2:GE:368:LEU:H	1.81	0.44
2:GG:244:PHE:CE2	2:GG:358:GLN:HG2	2.53	0.44
3:GH:28:HIS:O	3:GH:43:GLN:NE2	2.50	0.44
3:GH:130:LEU:HB2	3:GH:162:ARG:HH11	1.83	0.44
3:GH:156:ARG:HD2	3:GH:195:ASN:HB3	2.00	0.44
3:HD:328:GLU:OE2	3:HD:329:GLN:NE2	2.51	0.44
2:HE:264:ARG:O	2:HE:266:HIS:ND1	2.23	0.44
2:HE:273:ALA:O	2:HE:275:VAL:N	2.50	0.44
3:HF:337:ASN:HB2	3:HF:340:TYR:HD2	1.82	0.44
3:HH:374:ILE:HG22	3:HH:378:PHE:HD2	1.82	0.44
2:HI:53:PHE:CG	2:HI:61:HIS:HB3	2.52	0.44
3:IF:404:ASP:N	3:IF:404:ASP:OD1	2.51	0.44
2:IG:325:PRO:O	2:IG:329:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:19:LYS:O	3:IH:22:GLU:HG3	2.18	0.44
13:J3:153:ILE:HA	13:J3:156:GLU:CD	2.38	0.44
3:JD:246:LEU:HB3	3:JD:353:VAL:O	2.17	0.44
2:JE:330:ALA:O	2:JE:334:THR:HG23	2.18	0.44
3:JF:85:PHE:O	3:JF:86:ARG:NH2	2.50	0.44
3:JH:285:THR:O	3:JH:288:GLU:HG3	2.17	0.44
14:K2:430:GLU:O	14:K2:434:LYS:HD3	2.18	0.44
14:K3:469:HIS:HB3	14:K3:471:HIS:CD2	2.52	0.44
2:KE:338:LYS:HZ2	2:KE:340:THR:H	1.65	0.44
3:KF:322:SER:OG	3:KF:323:MET:N	2.51	0.44
3:KF:405:GLU:O	3:KF:409:THR:HG23	2.17	0.44
3:KH:350:LYS:HZ1	2:KI:181:VAL:N	2.16	0.44
2:KI:230:LEU:HD12	2:KI:231:ILE:N	2.33	0.44
15:L2:190:ASP:OD1	15:L2:193:ARG:NE	2.50	0.44
2:LE:266:HIS:O	2:LE:268:PRO:HD3	2.17	0.44
2:LG:132:LEU:HD11	18:O2:22:TRP:CZ2	2.53	0.44
2:LI:89:PRO:CD	2:MI:283:HIS:HE1	2.30	0.44
2:LI:326:LYS:HA	2:LI:329:ASN:ND2	2.32	0.44
3:MF:11:GLN:HG3	25:MF:501:GTP:PA	2.58	0.44
2:MG:9:VAL:HG11	2:MG:150:ALA:HB2	1.99	0.44
2:MG:387:ALA:O	2:MG:391:LEU:HG	2.17	0.44
2:MI:188:ILE:O	2:MI:191:THR:HG22	2.18	0.44
2:MI:417:GLU:OE1	2:MI:417:GLU:N	2.33	0.44
17:N3:66:ILE:HD13	17:N3:75:LEU:HD21	1.98	0.44
3:ND:228:LEU:O	3:ND:232:THR:HG23	2.18	0.44
2:NE:4:CYS:SG	2:NE:134:GLY:N	2.89	0.44
2:NE:167:LEU:HD13	2:NE:200:CYS:HB2	2.00	0.44
3:NF:345:ILE:HD11	2:NG:181:VAL:HG11	1.99	0.44
2:NG:232:GLY:HA2	2:NG:235:VAL:HG22	1.99	0.44
2:NG:308:ARG:NH2	2:NG:341:ILE:HA	2.33	0.44
3:NH:134:GLN:HA	3:NH:165:ASN:O	2.17	0.44
2:NI:139:HIS:CE1	2:NI:170:ALA:HB2	2.53	0.44
2:NI:381:THR:HG23	2:NI:383:ALA:H	1.82	0.44
3:OF:12:CYS:HA	25:OF:501:GTP:C2	2.52	0.44
3:OF:135:LEU:HD21	3:OF:151:LEU:HD11	2.00	0.44
3:OH:134:GLN:HA	3:OH:165:ASN:O	2.18	0.44
2:OI:5:ILE:O	2:OI:135:PHE:HA	2.18	0.44
19:P1:90:LYS:HB3	19:P1:108:SER:OG	2.17	0.44
2:PE:174:ALA:HB3	2:PE:177:VAL:O	2.17	0.44
3:PH:148:GLY:HA2	3:PH:151:LEU:HG	1.99	0.44
2:PI:224:TYR:HA	2:PI:227:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:296:PHE:CE2	2:PI:335:ILE:HG21	2.53	0.44
20:Q2:1381:GLN:O	20:Q2:1385:LYS:HG2	2.17	0.44
20:Q2:1500:SER:OG	20:Q2:1501:LEU:N	2.51	0.44
2:QE:420:GLU:O	2:QE:423:GLU:HG2	2.17	0.44
3:QF:420:SER:O	3:QF:423:GLN:HG3	2.17	0.44
2:QG:70:LEU:HB3	2:QG:97:GLU:O	2.17	0.44
2:QI:246:GLY:HA2	2:QI:357:TYR:HD2	1.81	0.44
2:RE:88:HIS:HB3	2:RE:91:GLN:HG2	2.00	0.44
2:RE:424:ASP:O	2:RE:428:LEU:HG	2.17	0.44
2:RG:139:HIS:O	2:RG:170:ALA:HA	2.18	0.44
2:RG:183:GLU:N	2:RG:184:PRO:HD2	2.32	0.44
2:RG:378:LEU:HA	2:RG:378:LEU:HD23	1.85	0.44
3:RH:255:VAL:HA	2:RI:407:TRP:CE2	2.53	0.44
3:RH:337:ASN:HB3	3:RH:340:TYR:HD2	1.82	0.44
2:SE:149:PHE:CD1	2:SE:152:LEU:HD11	2.53	0.44
2:SE:229:ARG:NH1	2:SE:233:GLN:HB2	2.33	0.44
3:TH:19:LYS:HA	3:TH:22:GLU:CG	2.47	0.44
2:TI:321:GLY:HA3	2:TI:372:GLN:O	2.18	0.44
3:TJ:50:TYR:HE2	3:TJ:241:ARG:HH21	1.66	0.44
3:TJ:374:ILE:HG22	3:TJ:378:PHE:HD2	1.83	0.44
3:UF:412:GLU:OE2	3:UF:416:ASN:ND2	2.50	0.44
3:VD:226:ASN:HA	3:VD:229:VAL:HG22	2.00	0.44
3:VD:295:ASP:HB2	3:VD:298:ASN:HB2	1.99	0.44
3:VD:322:SER:HB3	3:VD:325:GLU:OE1	2.17	0.44
3:VF:12:CYS:HA	3:VF:15:GLN:NE2	2.17	0.44
3:VF:40:SER:HB3	3:VF:42:LEU:HD23	2.00	0.44
2:VG:127:ASP:OD1	2:VG:127:ASP:N	2.47	0.44
2:VG:333:ALA:O	2:VG:337:THR:HG23	2.17	0.44
3:VH:182:PRO:O	3:VH:186:THR:HG22	2.18	0.44
2:WE:211:ASP:HA	2:WE:214:ARG:CZ	2.47	0.44
2:WE:338:LYS:NZ	2:WE:339:ARG:HG3	2.33	0.44
2:WE:352:LYS:HA	3:WF:177:ASP:OD1	2.18	0.44
2:WE:429:GLU:HA	2:WE:432:TYR:CD2	2.53	0.44
3:WF:72:THR:O	3:WF:76:VAL:HG23	2.18	0.44
3:WH:99:ASN:OD1	25:WH:501:GTP:PG	2.75	0.44
23:XJ:147:GLN:O	23:XJ:151:VAL:HG23	2.18	0.44
23:XK:147:GLN:O	23:XK:151:VAL:HG23	2.17	0.44
23:XL:100:LEU:HD12	23:XL:115:ILE:HD13	2.00	0.44
24:YJ:161:LYS:HG3	24:YJ:162:VAL:HG23	1.98	0.44
24:YL:87:HIS:CE1	24:YL:89:GLY:HA2	2.52	0.44
24:YL:158:LEU:HD22	24:YL:162:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YM:64:ARG:HB2	24:YM:68:MET:HE1	2.00	0.44
24:YN:33:ARG:CZ	24:YN:43:ILE:HD11	2.48	0.44
1:A2:90:ASP:HB3	1:A2:239:LYS:NZ	2.33	0.44
1:A2:161:ILE:HG22	1:A2:165:ARG:HH11	1.80	0.44
1:A2:333:ALA:H	1:A3:66:ARG:HH22	1.64	0.44
1:A2:397:ILE:O	1:A2:399:PRO:HD3	2.18	0.44
2:AE:187:SER:O	2:AE:191:THR:HG23	2.18	0.44
2:AE:327:ASP:OD1	2:AE:328:VAL:N	2.50	0.44
3:AF:261:PRO:HD3	2:AG:406:HIS:CD2	2.52	0.44
2:AG:51:THR:HG23	2:AG:52:PHE:CD2	2.52	0.44
2:AG:396:ASP:N	2:AG:396:ASP:OD1	2.49	0.44
3:AH:310:TYR:HA	3:AH:371:SER:HB2	1.99	0.44
3:AH:382:SER:HB3	3:AH:415:MET:CE	2.47	0.44
2:AI:429:GLU:HA	2:AI:432:TYR:CD2	2.53	0.44
4:B3:160:GLN:O	4:B3:164:LEU:HG	2.18	0.44
2:BE:169:PHE:HZ	2:BE:238:ILE:HD13	1.82	0.44
2:BG:220:GLU:O	2:BG:221:ARG:NE	2.48	0.44
2:BI:279:GLU:OE2	2:BI:280:LYS:HG2	2.18	0.44
5:C2:275:ARG:HD3	5:C2:276:ASN:O	2.18	0.44
5:C3:167:MET:HE1	5:C3:315:ARG:HD3	1.99	0.44
5:C7:302:LYS:HA	5:C7:302:LYS:HD3	1.85	0.44
2:CG:265:ILE:HD12	2:CG:265:ILE:H	1.82	0.44
2:CG:308:ARG:NH2	2:CG:341:ILE:HA	2.33	0.44
2:CG:327:ASP:OD1	2:CG:328:VAL:N	2.51	0.44
3:CH:11:GLN:HE21	25:CH:501:GTP:C5'	2.31	0.44
3:CJ:10:GLY:HA3	25:CJ:501:GTP:O2A	2.17	0.44
6:D3:173:GLU:OE1	6:D3:173:GLU:N	2.35	0.44
3:DD:224:ASP:O	3:DD:228:LEU:HG	2.18	0.44
3:DD:372:THR:HB	3:DD:375:GLN:HE22	1.82	0.44
3:DF:21:TRP:CZ2	3:DF:63:ALA:HB2	2.52	0.44
3:DH:216:LYS:HB3	3:DH:276:ARG:CZ	2.48	0.44
3:DH:337:ASN:HB2	3:DH:340:TYR:CD2	2.52	0.44
2:EE:97:GLU:N	2:EE:97:GLU:OE1	2.51	0.44
2:EG:15:GLN:HG2	25:EG:501:GTP:C6	2.52	0.44
2:EG:252:LEU:HA	2:EG:255:PHE:CD2	2.53	0.44
3:EH:6:HIS:CE1	3:EH:8:GLN:HB3	2.52	0.44
3:EH:11:GLN:HG3	25:EH:501:GTP:O5'	2.17	0.44
3:EH:119:VAL:HG13	3:EH:122:LYS:HE3	1.98	0.44
8:F2:453:HIS:O	8:F2:457:ILE:HG12	2.18	0.44
3:FD:277:GLY:O	3:FD:280:GLN:NE2	2.51	0.44
25:FF:502:GTP:O6	2:FG:224:TYR:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:147:LYS:HZ2	9:G1:149:ILE:H	1.65	0.44
9:G1:472:VAL:HG11	9:G1:498:VAL:HG12	1.99	0.44
10:G5:171:ASP:OD1	10:G5:172:PRO:HD2	2.18	0.44
10:G5:436:TYR:HB3	10:G5:522:LEU:CD1	2.47	0.44
10:G5:575:LYS:HA	10:G5:575:LYS:HD2	1.75	0.44
3:GD:249:ASP:O	3:GD:252:LYS:HB3	2.18	0.44
3:GD:381:ILE:HB	3:GD:385:PHE:CZ	2.53	0.44
2:GE:76:ASP:O	2:GE:80:THR:HG23	2.18	0.44
3:GF:114:ASP:OD1	3:GF:115:SER:N	2.49	0.44
3:GH:3:GLU:OE2	3:GH:127:CYS:HB2	2.18	0.44
3:GH:330:MET:SD	3:GH:349:VAL:HG21	2.58	0.44
2:GI:310:GLY:HA3	2:GI:383:ALA:HB2	2.00	0.44
2:GI:420:GLU:HG2	2:GI:424:ASP:OD2	2.18	0.44
2:HE:188:ILE:O	2:HE:191:THR:OG1	2.31	0.44
2:HE:234:ILE:O	2:HE:238:ILE:HG23	2.18	0.44
2:HE:279:GLU:OE2	2:HE:280:LYS:HG2	2.18	0.44
2:HE:310:GLY:HA3	2:HE:383:ALA:HB2	1.99	0.44
3:HF:58:LYS:HE2	3:IF:281:TYR:CE1	2.50	0.44
3:HF:63:ALA:O	3:HF:89:ASN:ND2	2.50	0.44
2:HG:136:LEU:HB3	2:HG:138:PHE:CE1	2.52	0.44
2:IE:88:HIS:HB3	2:IE:91:GLN:CG	2.47	0.44
2:IG:185:TYR:HD1	2:IG:418:PHE:CE1	2.36	0.44
2:II:320:ARG:HG2	2:II:358:GLN:O	2.17	0.44
2:II:399:TYR:OH	2:II:415:GLU:HB2	2.17	0.44
3:JD:150:LEU:HB3	3:JD:154:LYS:HZ1	1.83	0.44
3:JD:403:MET:HB3	3:JD:407:GLU:OE1	2.17	0.44
3:JD:405:GLU:O	3:JD:409:THR:HG23	2.18	0.44
2:JE:90:GLU:OE2	2:KE:280:LYS:HE2	2.18	0.44
2:JE:251:ASP:HB3	2:JE:254:GLU:OE1	2.17	0.44
2:JE:269:LEU:HD11	2:JE:384:ILE:HG21	1.99	0.44
14:K2:473:CYS:SG	14:K2:476:GLN:NE2	2.85	0.44
14:K3:261:ARG:HE	14:K3:276:GLN:HG3	1.83	0.44
14:K3:335:SER:O	14:K3:338:GLN:HB3	2.16	0.44
3:KF:223:GLY:HA2	3:KF:226:ASN:OD1	2.18	0.44
2:KG:51:THR:HG23	2:KG:52:PHE:CD2	2.53	0.44
2:KG:215:ARG:NH2	2:KG:299:ALA:O	2.50	0.44
15:L3:225:ILE:O	15:L3:229:LYS:HG3	2.17	0.44
3:LF:251:ARG:HA	3:LF:254:ALA:HB3	1.99	0.44
3:LF:334:GLN:HG3	3:LF:341:PHE:HE2	1.81	0.44
3:LF:344:TRP:HD1	2:LG:401:LYS:CD	2.30	0.44
3:LF:378:PHE:CE1	3:LF:419:VAL:HG22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:101:ASN:OD1	2:LG:144:GLY:HA2	2.18	0.44
3:LH:330:MET:HA	3:LH:333:VAL:HG12	1.98	0.44
2:LI:88:HIS:HB3	2:LI:91:GLN:HB2	1.99	0.44
2:LI:320:ARG:NH2	2:LI:360:PRO:HA	2.33	0.44
2:LI:428:LEU:HB3	2:LI:432:TYR:CZ	2.53	0.44
16:M3:48:LYS:NZ	16:M3:49:GLN:O	2.50	0.44
3:MF:2:ARG:NH1	2:MG:96:LYS:HB3	2.29	0.44
3:MF:19:LYS:O	3:MF:23:VAL:HG23	2.17	0.44
2:MG:33:ASP:OD1	2:MG:34:GLY:N	2.51	0.44
2:MG:392:ASP:OD1	2:MG:393:HIS:N	2.51	0.44
2:MI:297:GLU:HG2	2:MI:298:PRO:HD2	2.00	0.44
2:MI:304:LYS:HD2	2:MI:304:LYS:H	1.83	0.44
3:ND:15:GLN:NE2	25:ND:501:GTP:N1	2.66	0.44
2:NE:6:SER:O	2:NE:65:ALA:HA	2.18	0.44
2:NE:189:LEU:HD23	2:NE:192:HIS:HE1	1.83	0.44
3:NF:349:VAL:O	3:NF:350:LYS:NZ	2.44	0.44
3:NH:77:ARG:HA	3:NH:77:ARG:HD2	1.78	0.44
3:NH:111:GLU:HG2	3:NH:112:LEU:HD12	2.00	0.44
18:O1:40:GLN:NE2	20:Q1:1412:THR:HG23	2.32	0.44
2:OE:2:ARG:NE	2:OE:242:LEU:HG	2.32	0.44
2:OE:22:GLU:O	2:OE:26:LEU:HD23	2.18	0.44
2:OE:313:MET:HG3	2:OE:344:VAL:HG21	1.99	0.44
2:OG:121:ARG:O	2:OG:124:LYS:HG3	2.18	0.44
2:OG:288:VAL:HG23	2:OG:319:TYR:OH	2.18	0.44
3:OH:105:HIS:ND1	3:OH:150:LEU:HG	2.32	0.44
3:OH:246:LEU:HD22	3:OH:354:CYS:HA	1.98	0.44
19:P1:45:CYS:HB2	19:P1:63:HIS:HB2	1.99	0.44
19:P1:104:ILE:O	19:P1:145:ARG:NH1	2.50	0.44
3:PF:267:MET:HB2	3:PF:301:ALA:HB3	1.99	0.44
3:PF:392:LYS:HB2	3:PF:395:LEU:HD12	2.00	0.44
2:PI:224:TYR:CE2	25:PI:501:GTP:C5	2.99	0.44
2:PI:362:VAL:HG21	2:PI:370:LYS:NZ	2.33	0.44
2:QE:88:HIS:HB3	2:QE:91:GLN:HG2	1.99	0.44
3:QF:69:GLU:O	3:QF:72:THR:OG1	2.35	0.44
3:QF:102:ALA:HB2	3:QF:403:MET:CE	2.48	0.44
3:QF:148:GLY:HA2	3:QF:151:LEU:HG	2.00	0.44
3:QF:200:TYR:HB2	3:QF:202:ILE:HD11	1.98	0.44
3:QF:278:SER:O	3:QF:282:ARG:CB	2.66	0.44
3:QF:325:GLU:O	3:QF:328:GLU:HG3	2.17	0.44
2:QG:330:ALA:O	2:QG:334:THR:HG23	2.18	0.44
3:QH:85:PHE:O	3:QH:86:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:138:SER:HB2	3:QH:169:VAL:CG1	2.48	0.44
2:QI:80:THR:O	24:YL:124:HIS:ND1	2.40	0.44
2:QI:396:ASP:N	2:QI:396:ASP:OD1	2.50	0.44
2:RE:72:PRO:HA	2:RE:75:VAL:HG12	1.99	0.44
2:RG:12:ALA:HB1	25:RG:501:GTP:C2	2.52	0.44
2:RG:149:PHE:O	2:RG:152:LEU:HG	2.17	0.44
3:RH:21:TRP:CZ2	3:RH:63:ALA:HB2	2.52	0.44
3:RH:265:PHE:CD2	3:RH:374:ILE:HG21	2.51	0.44
3:RJ:330:MET:SD	3:RJ:349:VAL:HG21	2.58	0.44
3:SH:101:TRP:HD1	3:SH:145:SER:OG	2.01	0.44
2:SI:167:LEU:HD13	2:SI:200:CYS:HB2	1.99	0.44
2:SI:296:PHE:HE2	2:SI:335:ILE:HG13	1.83	0.44
2:SI:297:GLU:OE1	2:SI:300:ASN:N	2.51	0.44
3:TF:41:ASP:N	3:TF:41:ASP:OD1	2.47	0.44
2:TG:136:LEU:HD21	2:TG:138:PHE:CE1	2.52	0.44
2:TG:325:PRO:HB2	3:TH:208:TYR:OH	2.18	0.44
2:TG:433:GLU:O	2:TG:437:VAL:HG23	2.17	0.44
3:TH:2:ARG:HH21	3:TH:131:GLN:HG3	1.83	0.44
3:TH:331:LEU:HD11	2:TI:176:GLN:OE1	2.17	0.44
2:TI:243:ARG:HB3	2:TI:244:PHE:CD2	2.53	0.44
3:TJ:101:TRP:CE3	3:TJ:187:LEU:HD13	2.52	0.44
3:TJ:150:LEU:HB3	3:TJ:154:LYS:NZ	2.32	0.44
3:TJ:228:LEU:O	3:TJ:232:THR:HG23	2.18	0.44
3:UD:217:LEU:O	3:UD:219:THR:N	2.50	0.44
3:UD:394:PHE:HD1	3:UD:397:TRP:CZ3	2.36	0.44
2:UE:31:GLN:NE2	2:UE:37:PRO:HD3	2.33	0.44
2:UE:208:ALA:H	2:UE:304:LYS:NZ	2.15	0.44
2:UE:368:LEU:H	2:UE:368:LEU:HD23	1.83	0.44
3:VD:269:GLY:N	3:VD:367:PHE:O	2.46	0.44
3:VD:324:LYS:HE2	2:VE:222:PRO:CD	2.47	0.44
2:VE:318:LEU:O	2:VE:375:VAL:HA	2.18	0.44
3:VF:2:ARG:NH2	2:VG:96:LYS:O	2.51	0.44
2:VG:135:PHE:HD2	2:VG:166:LYS:HG3	1.82	0.44
2:VG:315:CYS:SG	2:VG:343:PHE:HZ	2.40	0.44
2:WE:88:HIS:CD2	2:WE:91:GLN:H	2.27	0.44
2:WE:208:ALA:HB2	2:WE:304:LYS:HE3	2.00	0.44
3:WF:17:GLY:O	3:WF:21:TRP:HD1	2.01	0.44
3:WF:51:TYR:HB3	3:WF:59:TYR:HB3	1.99	0.44
3:WF:95:SER:HA	23:XJ:72:ASP:CG	2.38	0.44
3:WF:246:LEU:HB3	3:WF:353:VAL:H	1.81	0.44
2:WI:70:LEU:HB3	2:WI:97:GLU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:396:ASP:HA	2:WI:422:ARG:NH2	2.33	0.44
22:XD:71:ILE:HG21	22:XD:167:PHE:HD2	1.82	0.44
22:XE:64:ASP:HB3	22:XE:67:LYS:HE3	2.00	0.44
23:XJ:66:PRO:HB2	23:XJ:81:LYS:HB3	1.98	0.44
23:XJ:99:GLY:HA2	23:XJ:102:GLU:HB3	2.00	0.44
23:XJ:174:TYR:CE1	23:XJ:216:PHE:HZ	2.36	0.44
24:YN:50:GLN:O	24:YN:53:MET:N	2.50	0.44
1:A3:15:GLU:O	1:A3:18:ILE:HG22	2.18	0.44
2:AE:45:GLY:HA2	2:AE:49:PHE:HE1	1.82	0.44
3:AF:46:ARG:NH2	2:AG:73:THR:HA	2.33	0.44
3:AF:132:GLY:HA2	3:AF:162:ARG:HB3	2.00	0.44
3:AF:406:MET:SD	3:AF:407:GLU:HG3	2.58	0.44
2:AG:310:GLY:O	2:AG:342:GLN:NE2	2.51	0.44
3:AH:8:GLN:HG2	3:AH:65:LEU:CD1	2.47	0.44
3:AH:12:CYS:SG	25:AH:501:GTP:H5'	2.57	0.44
3:AH:189:VAL:O	3:AH:193:VAL:HG12	2.17	0.44
3:AH:355:ASP:N	3:AH:355:ASP:OD1	2.50	0.44
2:AI:286:LEU:H	2:AI:286:LEU:HD23	1.83	0.44
4:B2:117:LEU:HG	4:B3:4:LEU:HD22	1.99	0.44
4:B7:69:ASP:HA	4:B7:72:ASN:HD21	1.82	0.44
4:B8:298:ARG:HA	4:B8:301:GLU:OE1	2.18	0.44
2:BE:392:ASP:OD1	2:BE:393:HIS:N	2.50	0.44
2:BG:175:PRO:HD2	2:BG:207:GLU:OE1	2.18	0.44
2:BG:320:ARG:HG2	2:BG:358:GLN:O	2.18	0.44
2:BG:330:ALA:O	2:BG:334:THR:HG23	2.17	0.44
2:BG:354:GLY:O	2:BG:355:ILE:HD13	2.18	0.44
3:BH:40:SER:HB2	3:BH:43:GLN:HG2	2.00	0.44
5:C2:283:TYR:CE2	5:C3:394:LYS:HD3	2.53	0.44
5:C8:322:ARG:O	5:C8:325:THR:OG1	2.25	0.44
3:CF:267:MET:HG2	3:CF:301:ALA:CB	2.37	0.44
3:CH:40:SER:O	3:CH:43:GLN:HG2	2.18	0.44
2:CI:53:PHE:HB3	2:CI:61:HIS:HB3	1.99	0.44
2:CI:207:GLU:CB	2:CI:304:LYS:HZ1	2.25	0.44
3:CJ:164:MET:SD	3:CJ:196:THR:HA	2.58	0.44
3:CJ:173:PRO:HD2	3:CJ:205:GLU:CD	2.39	0.44
3:CJ:318:ARG:N	3:CJ:321:MET:HE3	2.33	0.44
3:DD:2:ARG:NE	2:DE:96:LYS:O	2.44	0.44
3:DD:374:ILE:HG22	3:DD:378:PHE:CD2	2.53	0.44
3:DF:32:PRO:HA	3:DF:81:PHE:CE2	2.53	0.44
2:DG:98:ASP:O	2:DG:105:ARG:NH2	2.36	0.44
2:DG:167:LEU:HD13	2:DG:200:CYS:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:275:SER:OG	3:ED:276:ARG:N	2.50	0.44
2:EE:346:TRP:HH2	3:EF:391:ARG:HD2	1.81	0.44
3:EH:101:TRP:HB2	3:EH:184:ASN:HD22	1.83	0.44
8:F2:372:GLU:O	8:F2:375:ILE:HG22	2.17	0.44
8:F6:218:GLU:O	8:F6:222:LEU:HG	2.17	0.44
8:F7:186:CYS:O	8:F7:189:GLN:HG3	2.17	0.44
8:F7:393:GLN:O	8:F7:396:LEU:HG	2.17	0.44
9:G1:281:ARG:O	9:G1:283:ASN:N	2.51	0.44
10:G5:709:ALA:C	10:G5:711:PRO:HD3	2.38	0.44
3:GD:371:SER:OG	3:GD:372:THR:N	2.51	0.44
2:GG:210:TYR:HA	2:GG:213:CYS:SG	2.58	0.44
2:GI:206:ASN:HA	2:GI:209:ILE:HD12	1.99	0.44
3:HD:34:GLY:O	3:HD:58:LYS:HA	2.18	0.44
2:HE:107:HIS:CD2	2:HE:152:LEU:HB3	2.53	0.44
2:HE:329:ASN:HA	2:HE:332:ILE:HG22	2.00	0.44
2:HE:333:ALA:O	2:HE:337:THR:HG23	2.18	0.44
2:HE:377:MET:SD	2:HE:379:SER:HB3	2.57	0.44
2:HE:419:SER:HA	2:HE:422:ARG:CZ	2.47	0.44
2:HG:208:ALA:N	2:HG:304:LYS:HZ1	2.16	0.44
2:HG:224:TYR:HE2	25:HG:501:GTP:O6	2.01	0.44
2:HG:348:PRO:HG2	3:HH:384:GLN:OE1	2.17	0.44
2:HI:285:GLN:NE2	2:HI:287:SER:HB3	2.21	0.44
2:IE:306:ASP:OD1	2:IE:308:ARG:NH1	2.51	0.44
3:IF:245:GLN:OE1	2:IG:15:GLN:NE2	2.51	0.44
2:II:51:THR:HG21	2:II:243:ARG:HG2	1.99	0.44
3:JD:11:GLN:HA	3:JD:14:ASN:HB2	2.00	0.44
3:JD:182:PRO:HA	3:JD:381:ILE:HD11	2.00	0.44
2:JE:332:ILE:HG13	2:JE:336:LYS:NZ	2.33	0.44
3:JF:330:MET:HG3	3:JF:349:VAL:HG21	2.00	0.44
2:JG:34:GLY:HA2	2:JG:86:LEU:HD21	1.99	0.44
14:K2:350:MET:HE1	14:K2:447:LEU:HB2	2.00	0.44
14:K3:477:ALA:O	14:K3:481:VAL:HG23	2.18	0.44
3:KD:102:ALA:H	3:KD:398:TYR:HE1	1.66	0.44
3:KD:218:THR:OG1	3:KD:219:THR:N	2.51	0.44
3:KF:240:LEU:HD22	3:KF:248:ALA:HB1	1.99	0.44
2:KG:265:ILE:HB	2:KG:432:TYR:HE1	1.83	0.44
3:KH:362:LYS:HA	3:KH:362:LYS:HD3	1.76	0.44
15:L2:63:LEU:HD13	15:L2:67:SER:H	1.82	0.44
15:L2:65:LYS:NZ	3:LD:410:GLU:HA	2.33	0.44
3:LD:21:TRP:CZ2	3:LD:63:ALA:HB2	2.53	0.44
3:LF:251:ARG:NH2	2:LG:98:ASP:OD1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:350:LYS:HE3	2:LG:181:VAL:N	2.32	0.44
2:LG:1:MET:HE1	3:LH:70:PRO:HB2	2.00	0.44
3:LH:190:HIS:HE1	3:LH:410:GLU:HG2	1.82	0.44
3:LH:252:LYS:HD2	2:LI:98:ASP:OD2	2.18	0.44
2:LI:320:ARG:HD3	2:LI:360:PRO:HG3	1.98	0.44
2:ME:45:GLY:CA	2:ME:55:GLU:H	2.31	0.44
2:ME:280:LYS:HA	2:ME:280:LYS:HD2	1.76	0.44
3:MF:52:ASN:CG	3:MF:62:ARG:HD3	2.38	0.44
3:MF:167:PHE:CD1	3:MF:200:TYR:HB2	2.52	0.44
2:MG:70:LEU:HB3	2:MG:97:GLU:O	2.18	0.44
2:MG:214:ARG:HH12	2:MG:215:ARG:HG3	1.83	0.44
2:MG:237:SER:HB3	2:MG:320:ARG:NH2	2.32	0.44
2:MG:306:ASP:OD1	2:MG:308:ARG:N	2.46	0.44
3:MH:267:MET:HE1	3:MH:303:CYS:O	2.18	0.44
2:NE:363:VAL:H	2:NE:368:LEU:HD21	1.82	0.44
3:NF:32:PRO:C	3:NF:83:GLN:HE21	2.21	0.44
3:NH:321:MET:HE3	3:NH:363:MET:SD	2.58	0.44
3:NH:390:ARG:HH11	3:NH:390:ARG:C	2.21	0.44
2:OE:132:LEU:O	2:OE:132:LEU:HD12	2.18	0.44
2:OE:301:GLN:OE1	2:OE:301:GLN:N	2.47	0.44
2:OE:431:ASP:O	2:OE:435:VAL:HG22	2.18	0.44
3:OF:6:HIS:NE2	3:OF:136:THR:HG23	2.33	0.44
2:OG:102:ASN:HD21	2:OG:411:GLU:HG2	1.83	0.44
2:OG:141:PHE:HB2	2:OG:173:PRO:HD3	2.00	0.44
2:OG:207:GLU:HB2	2:OG:304:LYS:HZ1	1.82	0.44
2:OG:319:TYR:CD2	2:OG:323:VAL:HG11	2.53	0.44
3:OH:85:PHE:O	3:OH:86:ARG:NH2	2.51	0.44
19:P1:210:SER:HB3	19:P1:254:SER:O	2.17	0.44
19:P2:40:ILE:HG12	19:P2:49:ILE:HG23	2.00	0.44
19:P2:268:SER:OG	19:P2:272:LEU:HB3	2.18	0.44
19:P2:287:VAL:HG11	19:P2:324:GLU:OE1	2.17	0.44
19:P2:396:GLY:N	19:P2:419:GLY:HA2	2.33	0.44
2:PE:280:LYS:HD2	2:PE:280:LYS:HA	1.83	0.44
3:PF:31:ASP:OD2	3:PF:35:THR:OG1	2.27	0.44
3:PH:15:GLN:HG2	3:PH:16:ILE:N	2.33	0.44
3:PH:151:LEU:HA	3:PH:154:LYS:HZ3	1.82	0.44
2:PI:204:VAL:HG13	2:PI:302:MET:HG3	2.00	0.44
2:PI:368:LEU:H	2:PI:368:LEU:HD23	1.82	0.44
20:Q1:1382:LEU:HD13	20:Q1:1399:PHE:CE1	2.52	0.44
2:QE:25:CYS:O	2:QE:30:ILE:HG12	2.17	0.44
2:QE:74:VAL:HA	2:QE:77:GLU:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:102:ALA:HB2	3:QF:403:MET:HE2	1.99	0.44
3:QF:162:ARG:HA	3:QF:251:ARG:NH2	2.32	0.44
3:QH:311:LEU:HB2	3:QH:370:ASN:O	2.18	0.44
2:QI:116:ASP:OD1	2:QI:116:ASP:N	2.51	0.44
2:RE:2:ARG:O	2:RE:51:THR:HG22	2.18	0.44
2:RE:196:GLU:HG2	2:RE:197:HIS:ND1	2.32	0.44
3:RF:81:PHE:O	3:RF:84:ILE:HG22	2.17	0.44
2:RG:295:CYS:HB2	2:RG:377:MET:CG	2.46	0.44
3:RH:20:PHE:HD2	3:RH:21:TRP:CD1	2.36	0.44
3:RH:46:ARG:HD3	3:RH:46:ARG:HA	1.79	0.44
3:RH:144:GLY:N	25:RH:501:GTP:O2B	2.50	0.44
3:RH:350:LYS:HD3	2:RI:179:THR:O	2.18	0.44
3:RJ:405:GLU:O	3:RJ:409:THR:HG23	2.18	0.44
2:SE:297:GLU:CD	2:SE:299:ALA:H	2.21	0.44
2:SE:327:ASP:N	2:SE:327:ASP:OD1	2.51	0.44
3:SF:69:GLU:OE1	3:SF:72:THR:N	2.48	0.44
3:SF:379:LYS:O	3:SF:382:SER:OG	2.19	0.44
3:SH:344:TRP:O	2:SI:401:LYS:NZ	2.49	0.44
2:SI:139:HIS:O	2:SI:170:ALA:HA	2.18	0.44
2:SI:186:ASN:OD1	2:SI:187:SER:N	2.51	0.44
3:SJ:268:PRO:HD2	3:SJ:301:ALA:HB2	2.00	0.44
3:TF:6:HIS:CG	3:TF:7:LEU:N	2.86	0.44
3:TF:243:PRO:HG2	3:TF:356:ILE:HD11	2.00	0.44
2:TG:49:PHE:HB2	2:TG:53:PHE:HB2	1.98	0.44
2:TI:137:ILE:HD11	2:TI:166:LYS:HB3	1.99	0.44
3:TJ:15:GLN:HB2	3:TJ:222:TYR:HE2	1.83	0.44
3:UD:54:ALA:HB3	3:UD:58:LYS:HG3	1.98	0.44
2:UE:196:GLU:HG2	2:UE:197:HIS:ND1	2.32	0.44
3:UF:6:HIS:HD2	3:UF:134:GLN:HG2	1.82	0.44
3:UF:342:VAL:HG23	3:UF:345:ILE:HG22	2.00	0.44
2:UG:89:PRO:HD2	2:VG:280:LYS:NZ	2.30	0.44
2:UG:272:TYR:HE1	2:UG:374:ALA:HB1	1.83	0.44
2:UG:349:THR:HG23	3:UH:179:VAL:HG12	2.00	0.44
3:VD:322:SER:OG	3:VD:324:LYS:NZ	2.49	0.44
2:WE:139:HIS:ND1	2:WE:169:PHE:O	2.50	0.44
2:WE:173:PRO:HG3	2:WE:183:GLU:OE2	2.18	0.44
2:WE:174:ALA:HB1	2:WE:207:GLU:OE2	2.18	0.44
3:WF:108:GLU:N	3:WF:108:GLU:OE1	2.49	0.44
2:WG:35:GLN:HG3	2:WG:42:ILE:CD1	2.48	0.44
22:XD:14:LEU:HD12	22:XD:25:TRP:CE2	2.52	0.44
22:XD:53:ASN:HD22	22:XD:56:THR:HG23	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XE:129:TRP:CH2	22:XE:163:ARG:HB2	2.53	0.44
23:XK:54:THR:OG1	23:XK:55:THR:N	2.50	0.44
24:YI:94:ASN:O	24:YI:97:LEU:HB2	2.17	0.44
3:AF:280:GLN:HB3	3:MF:58:LYS:NZ	2.33	0.44
2:AG:265:ILE:HG23	2:AG:265:ILE:O	2.18	0.44
2:AG:338:LYS:HZ3	2:AG:339:ARG:H	1.65	0.44
3:AH:12:CYS:HB3	25:AH:501:GTP:H5'	2.00	0.44
3:AH:28:HIS:HA	3:AH:43:GLN:OE1	2.18	0.44
3:AH:130:LEU:H	3:AH:162:ARG:HH12	1.65	0.44
3:AH:215:LEU:HG	3:AH:217:LEU:HG	1.99	0.44
2:AI:99:ALA:H	2:AI:145:THR:HG22	1.83	0.44
2:AI:340:THR:O	2:AI:342:GLN:HG2	2.18	0.44
4:B2:260:ALA:O	4:B2:264:THR:HG23	2.18	0.44
4:B2:300:LEU:HD22	4:B2:356:LEU:HG	1.99	0.44
4:B2:307:LYS:HE3	4:B2:349:ILE:CD1	2.47	0.44
4:B3:36:HIS:O	4:B3:39:ARG:HB3	2.17	0.44
3:BF:20:PHE:HA	3:BF:230:SER:HB2	1.99	0.44
2:BG:122:ILE:HG13	2:BG:123:ARG:N	2.33	0.44
2:BG:251:ASP:HB3	2:BG:254:GLU:OE1	2.16	0.44
3:BH:69:GLU:O	3:BH:72:THR:OG1	2.33	0.44
3:BH:170:VAL:HG11	3:BH:377:LEU:HD21	1.99	0.44
3:BH:324:LYS:HD2	2:BI:220:GLU:O	2.18	0.44
2:BI:215:ARG:HH12	2:BI:299:ALA:C	2.18	0.44
2:BI:332:ILE:O	2:BI:336:LYS:HG3	2.18	0.44
2:CG:90:GLU:OE1	2:CG:90:GLU:N	2.48	0.44
2:CG:139:HIS:CE1	2:CG:170:ALA:HB2	2.52	0.44
2:CI:132:LEU:HD13	2:CI:164:LYS:HE3	2.00	0.44
3:CJ:253:LEU:O	3:CJ:257:MET:HB2	2.17	0.44
6:D8:351:ARG:CD	6:D9:238:VAL:HG13	2.48	0.44
2:DE:167:LEU:HD13	2:DE:200:CYS:HB2	2.00	0.44
2:DE:234:ILE:HD11	2:DE:272:TYR:HB2	1.99	0.44
2:DG:228:ASN:O	2:DG:231:ILE:HG22	2.17	0.44
3:ED:131:GLN:HB3	3:ED:163:ILE:HD12	2.00	0.44
2:EE:324:VAL:HG21	2:EE:326:LYS:HE2	1.99	0.44
3:EH:130:LEU:HB2	3:EH:162:ARG:NH1	2.33	0.44
8:F3:86:LEU:HD11	10:G5:573:HIS:CG	2.53	0.44
3:FD:167:PHE:CZ	3:FD:229:VAL:HG21	2.53	0.44
2:FE:10:GLY:O	2:FE:13:GLY:N	2.47	0.44
2:FE:286:LEU:HD11	2:FE:372:GLN:H	1.81	0.44
3:FF:130:LEU:HB2	3:FF:162:ARG:NH1	2.33	0.44
3:FF:216:LYS:HD2	3:FF:276:ARG:NH1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:300:MET:N	3:FF:300:MET:SD	2.90	0.44
3:FF:306:ARG:O	3:FF:306:ARG:NE	2.48	0.44
2:FG:116:ASP:N	2:FG:116:ASP:OD1	2.50	0.44
2:FG:368:LEU:H	2:FG:368:LEU:HD23	1.83	0.44
3:FH:156:ARG:HD3	3:FH:195:ASN:HB3	2.00	0.44
3:FH:309:ARG:NH2	3:FH:426:GLN:O	2.51	0.44
9:G2:498:VAL:HG23	9:G2:498:VAL:O	2.17	0.44
10:G5:24:GLN:HG2	2:MG:50:ASN:ND2	2.30	0.44
10:G5:155:ASN:HD21	10:G5:188:PRO:HA	1.83	0.44
3:GD:2:ARG:HB2	3:GD:131:GLN:NE2	2.33	0.44
2:GI:185:TYR:O	2:GI:189:LEU:HG	2.18	0.44
11:H3:307:ALA:HA	11:H3:310:LYS:HG2	1.99	0.44
11:H4:24:TYR:N	11:H4:27:LEU:HD23	2.33	0.44
11:H4:253:VAL:HA	11:H4:256:HIS:NE2	2.33	0.44
2:HE:154:MET:HA	2:HE:157:LEU:HG	2.00	0.44
2:HE:165:SER:C	2:HE:166:LYS:HD3	2.38	0.44
2:HE:317:MET:HG3	2:HE:319:TYR:HE1	1.82	0.44
3:HF:6:HIS:HB2	3:HF:134:GLN:NE2	2.32	0.44
3:HF:346:PRO:HD2	2:HG:394:LYS:HZ2	1.83	0.44
2:HG:287:SER:N	2:HG:290:GLU:OE2	2.51	0.44
12:I3:54:ASN:O	12:I3:58:GLU:HG2	2.18	0.44
2:IE:142:GLY:HA2	2:IE:183:GLU:CD	2.38	0.44
2:IE:206:ASN:HA	2:IE:209:ILE:HD12	2.00	0.44
3:IH:21:TRP:CZ3	3:IH:51:TYR:HE1	2.36	0.44
3:JD:203:ASP:N	3:JD:301:ALA:O	2.50	0.44
3:JD:269:GLY:HA3	3:JD:367:PHE:HD2	1.82	0.44
2:JE:311:LYS:HZ3	2:JE:342:GLN:HG3	1.83	0.44
2:JE:396:ASP:N	2:JE:396:ASP:OD1	2.49	0.44
3:JF:251:ARG:O	3:JF:255:VAL:HG22	2.18	0.44
3:JH:52:ASN:HB2	3:JH:60:VAL:CG1	2.48	0.44
14:K2:199:LEU:O	14:K2:202:GLU:HG3	2.17	0.44
14:K2:421:LEU:HD13	14:K3:109:LEU:HD12	2.00	0.44
3:KF:87:PRO:HA	3:KF:90:PHE:CD2	2.53	0.44
2:KG:144:GLY:HA3	25:KG:501:GTP:O3G	2.17	0.44
2:KG:243:ARG:HD2	2:KG:244:PHE:CE1	2.53	0.44
3:KH:28:HIS:ND1	3:KH:47:ILE:HD13	2.32	0.44
3:KH:215:LEU:O	3:KH:276:ARG:NH1	2.51	0.44
2:KI:188:ILE:HG12	2:KI:421:ALA:HB1	2.00	0.44
2:KI:192:HIS:CE1	2:KI:421:ALA:HB2	2.53	0.44
2:KI:330:ALA:O	2:KI:334:THR:HG23	2.17	0.44
15:L2:124:ILE:HG23	15:L2:135:ASP:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L2:145:TYR:CE1	15:L2:148:LYS:HE2	2.52	0.44
15:L2:231:GLU:O	15:L2:234:MET:HB2	2.18	0.44
3:LD:215:LEU:HD23	3:LD:217:LEU:HD21	2.00	0.44
3:LF:8:GLN:NE2	3:LF:65:LEU:HB2	2.27	0.44
2:LI:406:HIS:CG	2:LI:407:TRP:N	2.86	0.44
2:LI:438:ASP:OD1	2:LI:438:ASP:N	2.50	0.44
2:ME:39:ASP:N	2:ME:39:ASP:OD1	2.51	0.44
2:ME:90:GLU:HG2	2:ME:121:ARG:NH2	2.33	0.44
2:ME:252:LEU:HA	2:ME:255:PHE:HD1	1.82	0.44
3:MF:299:MET:SD	3:MF:300:MET:N	2.91	0.44
2:MG:5:ILE:HD11	2:MG:129:CYS:SG	2.58	0.44
2:MG:180:ALA:HB3	2:MG:183:GLU:HB2	2.00	0.44
3:MH:39:ASP:OD1	3:MH:40:SER:N	2.48	0.44
3:MH:379:LYS:O	3:MH:382:SER:OG	2.21	0.44
3:MH:410:GLU:HA	20:Q2:1417:ARG:NH1	2.33	0.44
2:MI:263:PRO:HB2	2:MI:264:ARG:NH1	2.33	0.44
2:NE:12:ALA:O	25:NE:501:GTP:N1	2.51	0.44
2:NE:76:ASP:HA	2:NE:79:ARG:HB3	2.00	0.44
2:NE:360:PRO:HG2	2:NE:374:ALA:CB	2.48	0.44
2:NG:102:ASN:CG	2:NG:105:ARG:H	2.21	0.44
2:NG:105:ARG:O	2:NG:109:THR:OG1	2.23	0.44
2:NG:149:PHE:O	2:NG:152:LEU:HG	2.18	0.44
2:OE:1:MET:HB3	2:OE:2:ARG:H	1.46	0.44
3:OF:6:HIS:O	3:OF:63:ALA:HA	2.18	0.44
2:OG:141:PHE:CZ	2:OG:203:MET:HE1	2.53	0.44
3:OH:240:LEU:HD22	3:OH:248:ALA:HB1	2.00	0.44
3:OH:350:LYS:HE3	2:OI:181:VAL:HG22	2.00	0.44
2:OI:3:GLU:OE2	2:OI:131:GLY:N	2.49	0.44
2:OI:280:LYS:O	2:OI:284:GLU:HB2	2.18	0.44
19:P1:279:PRO:C	19:P1:281:TYR:N	2.72	0.44
19:P1:601:TYR:CD1	19:P1:615:LYS:HA	2.53	0.44
19:P2:34:PRO:HD2	19:P2:76:GLY:HA3	1.99	0.44
19:P2:489:ASP:HB2	19:P2:496:ASN:OD1	2.17	0.44
19:P2:530:GLU:HG2	19:P2:532:PHE:H	1.83	0.44
2:PE:201:ALA:H	2:PE:266:HIS:HD2	1.64	0.44
2:PE:296:PHE:CE2	2:PE:335:ILE:HD13	2.52	0.44
3:PF:180:VAL:HG22	3:PF:183:TYR:HB2	2.00	0.44
3:PH:36:TYR:CE2	3:PH:38:GLY:HA2	2.53	0.44
3:PH:150:LEU:O	3:PH:153:SER:OG	2.30	0.44
2:PI:107:HIS:CD2	2:PI:152:LEU:HB2	2.53	0.44
2:PI:235:VAL:O	2:PI:238:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:6:SER:OG	2:QE:8:HIS:NE2	2.39	0.44
2:QE:247:ALA:HB3	2:QE:355:ILE:HB	2.00	0.44
2:QE:389:ALA:HA	2:QE:392:ASP:OD2	2.18	0.44
2:QG:40:LYS:O	2:QG:40:LYS:HD2	2.17	0.44
2:QG:116:ASP:N	2:QG:116:ASP:OD1	2.48	0.44
2:QG:420:GLU:HA	2:QG:423:GLU:OE2	2.18	0.44
2:RE:319:TYR:HB2	2:RE:355:ILE:HD13	2.00	0.44
2:RE:324:VAL:HG22	2:RE:327:ASP:OD2	2.17	0.44
3:RF:1:MET:O	3:RF:129:CYS:HB2	2.18	0.44
3:RF:20:PHE:O	3:RF:24:ILE:HG13	2.18	0.44
3:RF:214:THR:HG23	3:RF:215:LEU:HD12	2.00	0.44
2:RG:255:PHE:HA	2:RG:259:LEU:HD23	1.99	0.44
2:RI:47:ASP:HB3	2:RI:49:PHE:CE1	2.52	0.44
2:RI:174:ALA:HA	2:RI:205:ASP:OD1	2.18	0.44
2:RI:257:THR:HA	3:RJ:397:TRP:CZ2	2.53	0.44
2:RI:406:HIS:HA	2:RI:409:VAL:HG22	1.99	0.44
2:SE:392:ASP:OD1	2:SE:393:HIS:N	2.51	0.44
3:SF:114:ASP:OD1	3:SF:115:SER:N	2.49	0.44
3:SF:285:THR:HB	3:SF:287:PRO:HD2	2.00	0.44
2:SG:391:LEU:HD13	2:SG:394:LYS:HE2	2.00	0.44
3:SH:389:PHE:O	3:SH:392:LYS:HD3	2.18	0.44
2:SI:146:GLY:N	25:SI:501:GTP:O2B	2.51	0.44
3:SJ:273:LEU:H	3:SJ:292:GLN:NE2	1.97	0.44
3:TF:12:CYS:HA	25:TF:501:GTP:N2	2.33	0.44
3:TF:131:GLN:HB3	3:TF:163:ILE:HD12	1.99	0.44
3:TF:217:LEU:O	3:TF:219:THR:N	2.45	0.44
2:TG:3:GLU:HA	2:TG:51:THR:OG1	2.18	0.44
2:TI:4:CYS:SG	2:TI:134:GLY:N	2.90	0.44
2:TI:347:CYS:HB2	2:TI:349:THR:O	2.18	0.44
3:TJ:86:ARG:NE	3:TJ:86:ARG:HA	2.33	0.44
3:UD:328:GLU:OE2	3:UD:329:GLN:NE2	2.51	0.44
2:UE:172:TYR:CD1	2:UE:173:PRO:HD2	2.53	0.44
2:UE:326:LYS:H	2:UE:326:LYS:HG2	1.51	0.44
3:UF:12:CYS:HB3	25:UF:501:GTP:O4'	2.17	0.44
3:UF:266:PHE:CE1	3:UF:370:ASN:HB2	2.53	0.44
3:UF:318:ARG:HB3	3:UF:364:SER:OG	2.17	0.44
3:VD:150:LEU:C	3:VD:154:LYS:HZ3	2.20	0.44
3:VD:190:HIS:HD2	3:VD:191:GLN:HE21	1.66	0.44
3:VD:320:ARG:HA	3:VD:320:ARG:NH1	2.33	0.44
2:VE:50:ASN:OD1	2:VE:51:THR:N	2.51	0.44
3:VF:5:VAL:HG11	3:VF:123:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:111:GLU:N	3:VH:111:GLU:OE1	2.51	0.44
2:WE:176:GLN:NE2	2:WE:207:GLU:OE2	2.51	0.44
2:WE:280:LYS:HD2	2:WE:280:LYS:HA	1.83	0.44
3:WF:103:LYS:HA	3:WF:103:LYS:HD3	1.76	0.44
2:WG:11:GLN:HG2	25:WG:501:GTP:PB	2.57	0.44
2:WG:346:TRP:HH2	2:WG:435:VAL:HA	1.82	0.44
2:WG:375:VAL:HG13	2:WG:377:MET:SD	2.58	0.44
2:WG:384:ILE:HD12	2:WG:388:TRP:HH2	1.83	0.44
3:WH:238:THR:HB	3:WH:242:PHE:CD2	2.53	0.44
2:WI:429:GLU:O	2:WI:432:TYR:N	2.51	0.44
23:XK:170:LEU:HD12	23:XK:173:TYR:HB2	1.99	0.44
23:XL:149:ILE:O	23:XL:153:LEU:HG	2.18	0.44
23:XL:215:ALA:O	23:XL:218:ARG:HG3	2.17	0.44
1:A2:316:ARG:NH1	1:A3:63:LEU:HG	2.33	0.43
1:A3:21:LYS:HA	1:A3:24:TYR:CD2	2.53	0.43
1:A3:224:ASN:HA	1:A3:227:LYS:HE2	1.99	0.43
2:AE:12:ALA:HB1	25:AE:501:GTP:C2	2.53	0.43
2:AG:196:GLU:OE1	2:AG:196:GLU:N	2.30	0.43
2:AG:402:ARG:CG	23:XJ:233:PRO:HB2	2.48	0.43
3:AH:255:VAL:HG12	2:AI:407:TRP:CD2	2.53	0.43
3:AH:272:PRO:HA	3:AH:292:GLN:HE22	1.83	0.43
3:AH:280:GLN:N	3:AH:280:GLN:OE1	2.51	0.43
2:AI:139:HIS:NE2	2:AI:168:GLU:OE2	2.51	0.43
2:AI:183:GLU:HA	2:AI:186:ASN:ND2	2.33	0.43
2:AI:338:LYS:HZ3	2:AI:340:THR:HG23	1.83	0.43
4:B2:295:GLY:O	4:B2:299:ARG:HG3	2.17	0.43
4:B7:269:LEU:HD21	4:B7:387:ASP:HB3	2.00	0.43
2:BE:2:ARG:HH21	2:BE:251:ASP:HB2	1.82	0.43
2:BG:277:SER:OG	2:BG:280:LYS:HG2	2.18	0.43
2:BG:406:HIS:HA	2:BG:409:VAL:HG22	2.00	0.43
2:BI:1:MET:N	2:BI:130:THR:OG1	2.51	0.43
2:BI:108:TYR:CD1	2:BI:413:MET:HE1	2.53	0.43
5:C3:121:ARG:HD2	5:C3:121:ARG:HA	1.61	0.43
5:C3:141:HIS:CB	5:C4:419:ARG:HH22	2.12	0.43
2:CG:88:HIS:HB3	2:CG:91:GLN:HB2	2.00	0.43
2:CG:265:ILE:HG23	2:CG:432:TYR:HE1	1.83	0.43
2:CG:283:HIS:O	2:CG:283:HIS:ND1	2.51	0.43
2:CI:33:ASP:OD1	2:CI:34:GLY:N	2.51	0.43
2:CI:79:ARG:CD	11:H4:218:ILE:HD12	2.48	0.43
2:CI:325:PRO:HB2	3:CJ:208:TYR:OH	2.17	0.43
2:CI:326:LYS:HD2	3:CJ:208:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:368:LEU:CD2	6:D8:251:ALA:H	2.31	0.43
6:D8:138:LEU:HD13	6:D8:286:LEU:HD12	2.00	0.43
2:DE:256:GLN:O	2:DE:260:VAL:HG12	2.18	0.43
2:DE:389:ALA:HA	2:DE:392:ASP:OD2	2.18	0.43
3:DF:203:ASP:OD2	3:DF:205:GLU:HB2	2.18	0.43
2:DG:338:LYS:HZ2	2:DG:340:THR:N	2.07	0.43
2:DG:346:TRP:N	2:DG:346:TRP:CD1	2.86	0.43
2:DG:389:ALA:HA	2:DG:392:ASP:OD2	2.17	0.43
3:DH:318:ARG:NH1	3:DH:358:PRO:HG3	2.32	0.43
3:ED:337:ASN:HD22	3:ED:340:TYR:HD2	1.65	0.43
2:EE:320:ARG:NH2	2:EE:359:PRO:O	2.51	0.43
2:EG:3:GLU:CD	2:EG:132:LEU:H	2.21	0.43
2:EG:419:SER:O	2:EG:422:ARG:HB3	2.18	0.43
8:F3:94:ASP:O	8:F3:97:ARG:HD3	2.18	0.43
8:F3:325:PHE:O	8:F3:328:LEU:HG	2.18	0.43
8:F7:201:ARG:CZ	8:F7:206:LEU:HA	2.48	0.43
3:FD:313:VAL:HG23	3:FD:349:VAL:HA	2.00	0.43
2:FE:161:TYR:HB3	2:FE:164:LYS:NZ	2.33	0.43
3:FF:385:PHE:HZ	3:FF:408:PHE:HB3	1.82	0.43
2:FG:326:LYS:HA	2:FG:329:ASN:HD21	1.83	0.43
3:FH:173:PRO:HA	3:FH:380:ARG:HH22	1.83	0.43
3:FH:282:ARG:NH2	3:FH:288:GLU:OE1	2.39	0.43
9:G1:179:LYS:HD2	9:G1:179:LYS:HA	1.70	0.43
9:G1:433:ASP:HA	9:G1:436:ARG:NH1	2.32	0.43
9:G2:513:LEU:HD22	9:G2:535:ILE:HD11	1.99	0.43
2:GE:196:GLU:OE1	2:GE:196:GLU:N	2.35	0.43
3:GF:28:HIS:O	3:GF:43:GLN:NE2	2.51	0.43
2:GG:102:ASN:HB3	2:GG:105:ARG:HB3	2.00	0.43
2:GG:217:LEU:HD21	2:GG:275:VAL:HB	1.99	0.43
2:GG:220:GLU:HG2	2:GG:221:ARG:HG2	2.00	0.43
2:GG:244:PHE:CD2	2:GG:358:GLN:HG2	2.52	0.43
2:GG:392:ASP:HB3	2:GG:425:LEU:HD23	2.00	0.43
3:GH:11:GLN:HG3	25:GH:501:GTP:PA	2.58	0.43
2:GI:89:PRO:HD2	2:HI:280:LYS:NZ	2.32	0.43
2:HE:408:TYR:CD2	2:HE:418:PHE:HZ	2.35	0.43
3:HF:3:GLU:OE2	3:HF:128:ASP:N	2.50	0.43
3:HF:60:VAL:HG23	3:HF:86:ARG:NH1	2.32	0.43
3:HF:378:PHE:HA	3:HF:381:ILE:HG22	1.99	0.43
3:HH:276:ARG:HA	3:HH:279:GLN:HE22	1.83	0.43
3:HH:302:ALA:HB1	3:HH:377:LEU:HD21	1.98	0.43
2:HI:220:GLU:OE1	2:HI:220:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:297:GLU:OE1	2:IE:300:ASN:ND2	2.48	0.43
3:IF:252:LYS:HD3	2:IG:100:ALA:HA	2.00	0.43
3:IF:271:ALA:HB1	3:IF:272:PRO:HD2	2.00	0.43
3:IF:310:TYR:HA	3:IF:371:SER:HA	1.99	0.43
2:IG:75:VAL:O	2:IG:78:VAL:HG12	2.18	0.43
2:IG:103:TYR:CD2	2:IG:189:LEU:HD13	2.53	0.43
2:II:363:VAL:HG13	2:II:366:GLY:HA3	2.00	0.43
13:J2:136:LYS:HD2	13:J2:140:PRO:HA	1.99	0.43
2:JE:246:GLY:HA2	2:JE:357:TYR:HD2	1.83	0.43
3:JH:212:PHE:O	3:JH:216:LYS:NZ	2.26	0.43
14:K2:382:LEU:HA	2:LE:339:ARG:HG2	2.00	0.43
14:K4:139:ARG:HB3	14:K4:264:TRP:CZ2	2.53	0.43
3:KF:185:ALA:O	3:KF:189:VAL:HG22	2.18	0.43
3:KF:225:LEU:O	3:KF:229:VAL:HG22	2.18	0.43
3:KH:344:TRP:HD1	2:KI:401:LYS:HD3	1.83	0.43
15:L2:66:HIS:CE1	15:L2:69:GLU:HG2	2.53	0.43
15:L2:129:ARG:HE	2:LG:90:GLU:CB	2.31	0.43
15:L2:157:TYR:CG	15:L2:158:ILE:N	2.85	0.43
2:LE:209:ILE:HG21	2:LE:227:LEU:HG	1.99	0.43
2:LI:212:ILE:HG12	2:LI:215:ARG:HH21	1.82	0.43
2:ME:368:LEU:H	2:ME:368:LEU:HD23	1.81	0.43
3:MF:3:GLU:HG2	3:MF:130:LEU:HD13	2.00	0.43
2:MI:417:GLU:H	2:MI:417:GLU:CD	2.20	0.43
2:NE:135:PHE:CZ	2:NE:164:LYS:HD2	2.53	0.43
2:NE:324:VAL:HG21	2:NE:326:LYS:NZ	2.32	0.43
3:NH:12:CYS:CB	25:NH:501:GTP:H5'	2.48	0.43
3:NH:51:TYR:CB	3:NH:59:TYR:HB3	2.43	0.43
3:NH:324:LYS:HE3	3:NH:324:LYS:HB3	1.69	0.43
3:NH:380:ARG:O	3:NH:384:GLN:HG2	2.18	0.43
2:NI:12:ALA:HB1	25:NI:501:GTP:C5	2.53	0.43
2:NI:288:VAL:HG21	2:NI:328:VAL:HG22	2.00	0.43
18:O2:46:ARG:HD2	18:O2:48:HIS:CE1	2.53	0.43
3:OF:171:PRO:HG3	3:OF:181:GLU:OE2	2.18	0.43
2:OG:16:ILE:HD11	25:OG:501:GTP:HN1	1.83	0.43
2:OG:102:ASN:ND2	2:OG:105:ARG:HB2	2.33	0.43
2:OG:110:ILE:HA	2:OG:113:GLU:OE2	2.18	0.43
2:OG:325:PRO:HA	2:OG:328:VAL:CG1	2.47	0.43
3:OH:46:ARG:HG3	3:OH:241:ARG:O	2.17	0.43
2:OI:388:TRP:CD1	2:OI:425:LEU:HD11	2.53	0.43
19:P1:545:SER:HG	19:P1:566:ASP:HA	1.82	0.43
19:P1:571:VAL:CG1	19:P1:581:HIS:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:616:TYR:CD2	19:P1:619:ALA:HA	2.50	0.43
19:P2:213:MET:SD	19:P2:220:PHE:HB3	2.58	0.43
19:P2:591:MET:N	19:P2:605:VAL:O	2.42	0.43
2:PE:260:VAL:O	3:PF:397:TRP:HH2	2.01	0.43
3:PF:204:ASN:HB2	3:PF:208:TYR:CZ	2.53	0.43
2:PG:32:PRO:O	2:PG:85:GLN:NE2	2.51	0.43
2:PG:133:GLN:O	2:PG:164:LYS:HB2	2.17	0.43
3:PH:325:GLU:O	3:PH:328:GLU:HG3	2.18	0.43
2:PI:11:GLN:HB2	2:PI:74:VAL:HG21	2.00	0.43
20:Q1:1344:LEU:HD21	20:Q1:1442:ARG:NH2	2.33	0.43
20:Q2:1358:ILE:HB	20:Q2:1396:TYR:HE2	1.83	0.43
20:Q2:1468:LEU:HD12	20:Q2:1468:LEU:H	1.83	0.43
3:QF:77:ARG:HD2	3:QF:82:GLY:HA3	2.00	0.43
3:QF:162:ARG:HA	3:QF:162:ARG:HD3	1.76	0.43
2:QG:208:ALA:H	2:QG:304:LYS:HZ1	1.63	0.43
2:QG:314:ALA:HB3	2:QG:380:ASN:HB2	2.00	0.43
2:QI:15:GLN:N	2:QI:15:GLN:OE1	2.51	0.43
2:RE:185:TYR:O	2:RE:189:LEU:HD23	2.18	0.43
2:RE:230:LEU:O	2:RE:233:GLN:NE2	2.51	0.43
2:RG:414:GLU:HG2	2:RG:417:GLU:OE1	2.18	0.43
3:RH:137:HIS:O	3:RH:168:SER:HA	2.18	0.43
2:RI:127:ASP:OD1	2:RI:128:LEU:N	2.51	0.43
2:RI:140:SER:HA	2:RI:170:ALA:HB1	2.00	0.43
3:RJ:34:GLY:HA3	3:RJ:58:LYS:NZ	2.33	0.43
2:SE:3:GLU:OE2	2:SE:131:GLY:N	2.44	0.43
2:SE:192:HIS:CE1	2:SE:193:THR:HG23	2.53	0.43
2:SE:246:GLY:HA2	2:SE:357:TYR:CD1	2.47	0.43
2:SE:254:GLU:HG3	3:SF:98:GLY:O	2.18	0.43
2:SG:3:GLU:H	2:SG:133:GLN:HE22	1.65	0.43
2:SG:168:GLU:OE1	2:SG:200:CYS:N	2.51	0.43
2:SG:224:TYR:HE2	25:SG:501:GTP:C6	2.36	0.43
2:SI:263:PRO:O	2:SI:265:ILE:N	2.51	0.43
2:SI:432:TYR:HA	2:SI:435:VAL:HG22	2.00	0.43
3:TF:28:HIS:ND1	3:TF:43:GLN:HB2	2.32	0.43
2:TG:248:LEU:CD2	2:TG:355:ILE:H	2.31	0.43
3:TJ:77:ARG:HD2	3:TJ:77:ARG:HA	1.81	0.43
3:TJ:105:HIS:O	3:TJ:150:LEU:HD21	2.18	0.43
3:UF:32:PRO:C	3:UF:83:GLN:HE21	2.15	0.43
2:UG:368:LEU:H	2:UG:368:LEU:HD23	1.83	0.43
3:UH:186:THR:HG21	3:UH:385:PHE:CE2	2.53	0.43
3:VD:169:VAL:HG23	3:VD:202:ILE:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:169:PHE:CE1	2:VE:202:PHE:HD2	2.35	0.43
2:VE:213:CYS:O	2:VE:218:ASP:N	2.51	0.43
3:VF:3:GLU:OE2	3:VF:127:CYS:HB2	2.18	0.43
3:VF:203:ASP:OD2	3:VF:205:GLU:HB2	2.18	0.43
2:VG:125:LEU:O	2:VG:128:LEU:HG	2.17	0.43
3:VH:239:CYS:HB3	3:VH:246:LEU:HD11	1.98	0.43
3:WF:326:VAL:O	3:WF:330:MET:HG2	2.18	0.43
2:WG:39:ASP:N	2:WG:39:ASP:OD1	2.47	0.43
2:WG:220:GLU:OE1	2:WG:220:GLU:N	2.43	0.43
2:WG:297:GLU:CD	2:WG:299:ALA:H	2.22	0.43
3:WH:270:PHE:CG	3:WH:271:ALA:N	2.81	0.43
3:WH:311:LEU:HG	3:WH:312:THR:HG23	2.00	0.43
3:WH:323:MET:SD	3:WH:324:LYS:NZ	2.86	0.43
2:WI:50:ASN:OD1	2:WI:51:THR:N	2.50	0.43
2:WI:263:PRO:O	2:WI:264:ARG:HB2	2.18	0.43
22:XE:26:ASP:OD1	22:XE:60:THR:HB	2.18	0.43
22:XE:75:PHE:CB	22:XE:168:SER:O	2.62	0.43
22:XE:103:PHE:HB3	22:XE:121:MET:CE	2.48	0.43
22:XE:106:SER:HB2	22:XE:109:GLN:HB2	2.00	0.43
23:XK:66:PRO:HB2	23:XK:81:LYS:HB2	1.99	0.43
23:XK:236:GLU:N	23:XK:236:GLU:OE1	2.51	0.43
23:XL:210:GLN:NE2	23:XL:211:GLU:HG3	2.33	0.43
24:YK:121:VAL:O	24:YK:125:LEU:HG	2.18	0.43
24:YM:87:HIS:HB2	24:YM:165:HIS:HB2	1.99	0.43
24:YN:23:PHE:HA	24:YN:26:ILE:HG12	1.99	0.43
1:A2:278:LEU:HB3	1:A2:376:ILE:HD11	2.01	0.43
1:A3:50:LYS:HE2	4:B3:36:HIS:CE1	2.53	0.43
1:A3:162:ARG:HE	9:G2:166:LYS:HZ2	1.66	0.43
1:A3:179:PHE:O	1:A3:182:ILE:HG22	2.18	0.43
2:AE:120:ASP:O	2:AE:123:ARG:HG2	2.17	0.43
2:AE:388:TRP:HA	2:AE:391:LEU:HG	2.00	0.43
2:AG:154:MET:CE	2:AG:197:HIS:HB2	2.47	0.43
2:AG:262:TYR:HE1	3:AH:393:ALA:HA	1.82	0.43
2:AG:320:ARG:HD3	2:AG:360:PRO:HG3	1.99	0.43
3:AH:6:HIS:CE1	3:AH:8:GLN:HB2	2.53	0.43
3:AH:414:ASN:O	3:AH:417:ASP:HB3	2.18	0.43
2:AI:51:THR:HG23	2:AI:52:PHE:CD2	2.53	0.43
4:B7:6:PHE:HB3	4:B7:11:ARG:HH12	1.84	0.43
4:B7:30:ARG:HG3	4:B7:31:GLN:N	2.32	0.43
2:BE:235:VAL:O	2:BE:238:ILE:HG12	2.18	0.43
3:BF:218:THR:O	3:BF:220:PRO:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:324:LYS:HD2	2:BG:221:ARG:HA	1.99	0.43
2:BG:357:TYR:CD2	10:G5:209:PRO:HG2	2.53	0.43
2:BI:15:GLN:CG	25:BI:501:GTP:C6	3.01	0.43
2:BI:246:GLY:HA2	2:BI:357:TYR:CD1	2.53	0.43
5:C2:296:VAL:O	5:C2:299:THR:OG1	2.20	0.43
5:C7:296:VAL:HG13	5:C8:413:ARG:NH2	2.33	0.43
2:CG:187:SER:O	2:CG:191:THR:HG23	2.18	0.43
2:CG:392:ASP:HB2	2:CG:422:ARG:NH1	2.33	0.43
2:CI:55:GLU:OE1	2:CI:61:HIS:NE2	2.52	0.43
2:CI:219:ILE:HG23	11:H4:33:ASN:O	2.18	0.43
2:CI:338:LYS:NZ	2:CI:339:ARG:H	2.17	0.43
3:CJ:142:GLY:N	25:CJ:501:GTP:O3B	2.51	0.43
6:D8:151:ILE:O	6:D8:155:ASN:ND2	2.51	0.43
6:D8:263:ASP:O	6:D8:267:ARG:HG2	2.17	0.43
6:D8:351:ARG:HG2	6:D9:238:VAL:HG22	2.00	0.43
2:DE:261:PRO:HA	3:DF:394:PHE:CE1	2.53	0.43
3:DF:350:LYS:HE3	2:DG:181:VAL:H	1.83	0.43
3:DH:293:MET:CE	3:DH:367:PHE:HB2	2.48	0.43
3:ED:249:ASP:HB3	3:ED:252:LYS:HB2	2.01	0.43
2:EE:54:SER:O	2:EE:56:THR:HG23	2.18	0.43
2:EE:59:GLY:HA3	10:G5:712:TYR:OH	2.18	0.43
3:EF:67:ASP:OD1	3:EF:143:THR:HG21	2.18	0.43
3:EH:11:GLN:OE1	25:EH:501:GTP:N2	2.51	0.43
3:EH:376:GLU:H	3:EH:376:GLU:CD	2.18	0.43
8:F2:327:THR:O	8:F2:331:GLN:NE2	2.40	0.43
8:F2:402:ARG:HG2	8:F3:263:ILE:HD11	2.00	0.43
8:F3:322:GLU:O	8:F3:326:GLU:OE1	2.37	0.43
8:F7:390:LYS:O	8:F7:393:GLN:NE2	2.50	0.43
3:FD:330:MET:HE3	3:FD:351:THR:HG21	1.99	0.43
3:FH:11:GLN:HG3	25:FH:501:GTP:O5'	2.17	0.43
3:FH:157:GLU:HG2	3:FH:158:GLU:N	2.33	0.43
9:G1:80:ALA:HB3	9:G1:84:GLU:N	2.28	0.43
9:G1:157:ASN:H	9:G1:161:ASP:CG	2.21	0.43
9:G1:417:ASN:O	9:G1:419:VAL:HG13	2.18	0.43
10:G5:404:ARG:HD2	10:G5:414:HIS:HB3	2.00	0.43
10:G5:467:GLU:O	10:G5:478:GLY:HA2	2.19	0.43
2:GE:47:ASP:O	2:GE:49:PHE:N	2.51	0.43
2:GG:129:CYS:SG	2:GG:132:LEU:HB3	2.58	0.43
2:GG:216:ASN:ND2	2:GG:275:VAL:HG23	2.32	0.43
2:GI:25:CYS:HB2	2:GI:30:ILE:HB	2.00	0.43
2:GI:419:SER:O	2:GI:422:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:48:ASN:OD1	3:HD:49:VAL:N	2.50	0.43
3:HD:152:ILE:HA	3:HD:155:ILE:HG12	1.99	0.43
3:HD:404:ASP:OD1	3:HD:405:GLU:N	2.51	0.43
2:HE:174:ALA:HB1	2:HE:207:GLU:OE2	2.18	0.43
2:HE:338:LYS:NZ	2:HE:340:THR:H	2.05	0.43
2:HE:346:TRP:CH2	2:HE:435:VAL:HA	2.53	0.43
2:HG:102:ASN:OD1	2:HG:104:ALA:N	2.49	0.43
2:HG:279:GLU:O	2:HG:283:HIS:HD2	1.99	0.43
3:IF:215:LEU:HB3	3:IF:217:LEU:HD23	2.00	0.43
3:IF:406:MET:SD	3:IF:407:GLU:N	2.91	0.43
2:IG:208:ALA:N	2:IG:304:LYS:HZ1	2.16	0.43
13:J2:163:ASN:N	13:J2:163:ASN:OD1	2.51	0.43
3:JD:139:LEU:HD11	3:JD:171:PRO:HD3	2.00	0.43
3:JD:325:GLU:HB3	2:JE:221:ARG:HH11	1.83	0.43
2:JG:54:SER:OG	2:JG:64:ARG:NH2	2.51	0.43
2:JG:229:ARG:HE	2:JG:368:LEU:HD22	1.82	0.43
3:JH:204:ASN:HA	3:JH:207:LEU:HD12	2.00	0.43
14:K2:383:LEU:HB3	14:K2:386:ASN:OD1	2.18	0.43
14:K2:482:ASN:OD1	14:K2:483:ASP:N	2.50	0.43
14:K3:164:ARG:HD2	14:K3:321:ILE:CG2	2.47	0.43
14:K3:344:LEU:O	14:K3:348:GLU:HG2	2.18	0.43
14:K3:427:LEU:HA	14:K3:430:GLU:OE1	2.18	0.43
2:KE:145:THR:HG1	25:KE:501:GTP:PB	2.41	0.43
2:KE:288:VAL:HA	2:KE:291:ILE:HG12	2.01	0.43
3:KF:272:PRO:HA	3:KF:292:GLN:HE22	1.82	0.43
2:KG:88:HIS:CD2	2:KG:121:ARG:HH22	2.35	0.43
2:KI:56:THR:HG21	2:LI:285:GLN:HB2	2.00	0.43
15:L2:47:LYS:HD2	15:L2:48:THR:HA	2.00	0.43
15:L2:187:ARG:CZ	15:L2:251:TYR:HD1	2.31	0.43
15:L3:156:GLU:HA	15:L3:159:CYS:HB2	2.00	0.43
3:LD:68:LEU:HD12	3:LD:97:ALA:HB2	2.00	0.43
3:LD:392:LYS:NZ	18:O1:83:ALA:HB2	2.33	0.43
2:LE:391:LEU:HD23	2:LE:394:LYS:NZ	2.33	0.43
2:LG:46:ASP:OD1	2:LG:46:ASP:N	2.48	0.43
2:LG:206:ASN:HA	2:LG:209:ILE:HD12	2.00	0.43
3:LH:141:GLY:HA3	25:LH:501:GTP:C5'	2.48	0.43
3:LH:246:LEU:HD13	3:LH:353:VAL:C	2.38	0.43
2:LI:238:ILE:HG13	2:LI:239:THR:HG23	2.00	0.43
2:ME:6:SER:O	2:ME:65:ALA:HA	2.17	0.43
3:ND:261:PRO:HD3	2:NE:406:HIS:CG	2.53	0.43
2:NE:214:ARG:HH12	2:NE:215:ARG:HG3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:319:TYR:HA	2:NE:374:ALA:O	2.18	0.43
2:NG:332:ILE:HG13	2:NG:336:LYS:NZ	2.33	0.43
3:NH:61:PRO:HG2	3:NH:85:PHE:CD1	2.54	0.43
3:NH:257:MET:O	3:NH:259:PRO:HD3	2.17	0.43
3:NH:324:LYS:HE2	2:NI:222:PRO:CD	2.48	0.43
2:NI:16:ILE:HG13	2:NI:17:GLY:N	2.33	0.43
2:OE:430:LYS:HA	2:OE:433:GLU:OE1	2.18	0.43
2:OG:235:VAL:HG23	2:OG:238:ILE:HD11	1.99	0.43
2:OG:362:VAL:HA	2:OG:368:LEU:HD21	2.00	0.43
19:P1:478:THR:HB	19:P1:488:TRP:HH2	1.82	0.43
19:P2:95:LEU:HD12	19:P2:96:TRP:H	1.83	0.43
19:P2:166:PHE:HA	19:P2:174:PHE:CB	2.49	0.43
2:PE:12:ALA:HB1	25:PE:501:GTP:N2	2.33	0.43
2:PE:248:LEU:HD23	2:PE:355:ILE:HB	2.00	0.43
3:PF:20:PHE:HD2	3:PF:21:TRP:CD1	2.36	0.43
2:PG:1:MET:O	2:PG:131:GLY:HA3	2.18	0.43
2:PG:324:VAL:HB	2:PG:326:LYS:HG2	1.99	0.43
2:PG:352:LYS:HD3	3:PH:178:THR:HA	1.99	0.43
2:PG:381:THR:HG23	2:PG:383:ALA:H	1.84	0.43
2:PI:292:THR:HA	2:PI:295:CYS:SG	2.58	0.43
2:QG:427:ALA:HA	2:QG:430:LYS:HG2	2.00	0.43
3:QH:322:SER:CB	3:QH:324:LYS:HZ2	2.31	0.43
2:QI:328:VAL:O	2:QI:332:ILE:HG23	2.18	0.43
2:RE:314:ALA:O	2:RE:379:SER:HA	2.18	0.43
3:RF:207:LEU:HB3	3:RF:225:LEU:HG	2.00	0.43
2:RG:417:GLU:OE1	2:RG:417:GLU:N	2.33	0.43
2:RI:53:PHE:HB3	2:RI:61:HIS:HB3	2.00	0.43
2:RI:151:SER:O	2:RI:154:MET:HG3	2.18	0.43
3:SF:161:ASP:HB2	3:SF:162:ARG:NH1	2.33	0.43
2:SG:336:LYS:HD2	2:SG:351:PHE:CE2	2.53	0.43
2:SI:89:PRO:HG2	2:TI:280:LYS:HD3	2.00	0.43
2:SI:133:GLN:O	2:SI:164:LYS:HB2	2.17	0.43
2:SI:252:LEU:HD12	2:SI:253:THR:N	2.33	0.43
3:SJ:34:GLY:HA3	3:SJ:58:LYS:NZ	2.33	0.43
3:TF:172:SER:HB3	3:TF:175:VAL:O	2.18	0.43
2:TG:139:HIS:CE1	2:TG:168:GLU:HB3	2.53	0.43
2:TI:22:GLU:O	2:TI:26:LEU:HD23	2.18	0.43
2:TI:127:ASP:OD1	2:TI:128:LEU:N	2.50	0.43
2:TI:208:ALA:H	2:TI:304:LYS:NZ	2.05	0.43
2:TI:209:ILE:HG13	2:TI:302:MET:HE1	2.00	0.43
2:TI:408:TYR:HA	2:TI:411:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:423:GLN:O	3:TJ:426:GLN:NE2	2.49	0.43
3:UD:28:HIS:HA	3:UD:43:GLN:OE1	2.18	0.43
3:UD:40:SER:HB3	3:UD:42:LEU:HD23	2.00	0.43
3:UD:124:ALA:HA	3:UD:127:CYS:SG	2.58	0.43
3:UD:392:LYS:HD2	3:UD:392:LYS:O	2.19	0.43
2:UE:3:GLU:OE2	2:UE:130:THR:N	2.47	0.43
2:UE:21:TRP:HD1	2:UE:67:PHE:HZ	1.65	0.43
2:UE:132:LEU:HD12	2:UE:132:LEU:O	2.18	0.43
2:UE:246:GLY:HA2	2:UE:357:TYR:CD2	2.53	0.43
3:UF:20:PHE:CE1	3:UF:24:ILE:HD11	2.53	0.43
2:UG:349:THR:HB	3:UH:176:SER:H	1.83	0.43
3:UH:101:TRP:CZ3	3:UH:403:MET:HE1	2.53	0.43
3:VD:156:ARG:NH1	3:VD:195:ASN:O	2.51	0.43
3:VD:162:ARG:HA	3:VD:162:ARG:HD3	1.72	0.43
3:VD:405:GLU:O	3:VD:409:THR:HG23	2.18	0.43
3:VD:423:GLN:HA	3:VD:426:GLN:HE21	1.82	0.43
2:VE:17:GLY:O	2:VE:21:TRP:HD1	2.01	0.43
3:VF:109:GLY:O	3:VF:113:VAL:HG13	2.18	0.43
3:VF:344:TRP:O	2:VG:401:LYS:NZ	2.37	0.43
2:VG:89:PRO:HB2	2:VG:90:GLU:OE1	2.18	0.43
2:VG:260:VAL:O	3:VH:397:TRP:HH2	2.01	0.43
3:VH:186:THR:HA	3:VH:189:VAL:HG12	1.99	0.43
2:WG:320:ARG:CZ	2:WG:360:PRO:HA	2.48	0.43
3:WH:31:ASP:N	3:WH:31:ASP:OD1	2.51	0.43
3:WH:62:ARG:HG2	3:WH:123:GLU:OE2	2.18	0.43
3:WH:122:LYS:HZ1	22:XE:38:THR:HG21	1.82	0.43
3:WH:218:THR:OG1	3:WH:219:THR:N	2.51	0.43
2:WI:287:SER:O	2:WI:291:ILE:HG23	2.18	0.43
22:XE:7:GLN:CG	22:XE:72:LYS:HD3	2.42	0.43
22:XE:69:LEU:HG	22:XE:152:LEU:O	2.18	0.43
23:XK:54:THR:O	23:XK:58:LYS:NZ	2.51	0.43
24:YI:54:GLU:HG2	24:YI:55:HIS:CD2	2.53	0.43
24:YL:59:ASN:O	24:YL:61:THR:N	2.51	0.43
1:A2:210:ASN:OD1	1:A2:210:ASN:N	2.51	0.43
1:A2:365:LEU:HD11	1:A3:34:SER:HB3	2.00	0.43
2:AE:88:HIS:HB3	2:AE:91:GLN:HB2	2.00	0.43
3:AH:36:TYR:CE2	3:AH:44:LEU:HD12	2.54	0.43
3:AH:324:LYS:HB3	3:AH:324:LYS:HE3	1.73	0.43
3:AH:342:VAL:HB	3:AH:344:TRP:HE3	1.83	0.43
2:AI:53:PHE:HD1	2:AI:63:PRO:HA	1.83	0.43
2:AI:186:ASN:O	2:AI:190:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B2:298:ARG:NH1	4:B2:302:GLU:OE1	2.51	0.43
4:B8:308:MET:O	4:B8:312:LYS:HG3	2.18	0.43
2:BG:346:TRP:O	2:BG:348:PRO:HD3	2.18	0.43
2:BI:217:LEU:CD2	2:BI:275:VAL:HG12	2.49	0.43
5:C2:152:ASP:OD1	5:C2:153:LEU:N	2.51	0.43
5:C8:196:ARG:O	5:C8:199:LEU:HG	2.17	0.43
3:CF:30:ILE:HD13	3:CF:51:TYR:HE2	1.83	0.43
3:CF:60:VAL:HG22	3:CF:61:PRO:O	2.18	0.43
3:CH:276:ARG:HA	10:G5:297:GLN:OE1	2.18	0.43
3:CH:296:ALA:HA	3:CH:299:MET:CE	2.48	0.43
2:CI:172:TYR:CG	2:CI:173:PRO:HD2	2.54	0.43
3:CJ:375:GLN:OE1	3:CJ:375:GLN:N	2.42	0.43
6:D3:97:LEU:HB3	6:D3:101:ARG:NH2	2.33	0.43
6:D4:302:SER:O	6:D4:305:SER:OG	2.26	0.43
6:D8:147:VAL:HG12	6:D8:151:ILE:HD11	2.01	0.43
3:DD:11:GLN:HA	3:DD:14:ASN:HD22	1.84	0.43
2:DE:68:VAL:HG12	2:DE:93:ILE:HB	2.00	0.43
2:DE:326:LYS:H	2:DE:326:LYS:HG2	1.67	0.43
2:DE:397:LEU:O	2:DE:401:LYS:HG2	2.17	0.43
3:DF:246:LEU:HD11	3:DF:354:CYS:HB2	2.01	0.43
3:DF:304:ASP:HB3	3:DF:307:HIS:CE1	2.54	0.43
3:DF:346:PRO:HG2	2:DG:394:LYS:NZ	2.30	0.43
2:DG:115:VAL:O	2:DG:118:VAL:HG22	2.19	0.43
3:DH:318:ARG:HB3	3:DH:364:SER:OG	2.18	0.43
3:ED:238:THR:HA	3:ED:241:ARG:HH11	1.84	0.43
3:EF:148:GLY:O	3:EF:152:ILE:HG12	2.18	0.43
3:EF:245:GLN:NE2	25:EG:501:GTP:C5	2.82	0.43
3:EF:286:VAL:HG12	3:EF:329:GLN:HG3	2.00	0.43
2:EG:208:ALA:H	2:EG:304:LYS:NZ	2.17	0.43
3:EH:291:GLN:OE1	3:EH:292:GLN:N	2.51	0.43
3:EH:378:PHE:HB2	3:EH:415:MET:CE	2.43	0.43
8:F2:248:HIS:NE2	8:F6:199:GLU:OE1	2.44	0.43
2:FG:208:ALA:N	2:FG:304:LYS:HZ2	2.16	0.43
9:G1:430:ILE:HG22	9:G1:432:GLU:H	1.83	0.43
10:G5:35:LEU:HD23	10:G5:36:VAL:O	2.18	0.43
3:GD:306:ARG:O	3:GD:306:ARG:NE	2.47	0.43
2:GG:72:PRO:HA	2:GG:75:VAL:HG12	2.00	0.43
2:GI:5:ILE:O	2:GI:135:PHE:HA	2.18	0.43
2:GI:42:ILE:HG12	2:GI:55:GLU:OE2	2.18	0.43
11:H4:24:TYR:H	11:H4:27:LEU:HD23	1.83	0.43
3:HD:49:VAL:HG23	3:HD:50:TYR:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:325:PRO:HA	2:HE:328:VAL:HB	2.00	0.43
2:HE:381:THR:HG23	2:HE:383:ALA:H	1.84	0.43
2:HE:401:LYS:O	2:HE:402:ARG:HD3	2.18	0.43
3:HF:111:GLU:OE1	3:HF:111:GLU:N	2.51	0.43
3:HF:119:VAL:O	3:HF:122:LYS:HB2	2.19	0.43
3:HH:136:THR:HG22	3:HH:167:PHE:HB3	2.01	0.43
12:I2:55:THR:HB	12:I2:59:LYS:NZ	2.33	0.43
3:IF:385:PHE:HB3	3:IF:408:PHE:CZ	2.52	0.43
3:IF:406:MET:O	3:IF:410:GLU:OE1	2.37	0.43
3:IH:68:LEU:HD22	3:IH:93:GLY:HA3	2.01	0.43
3:IH:251:ARG:O	3:IH:255:VAL:HG22	2.19	0.43
13:J2:32:ASN:O	13:J2:33:SER:HB3	2.18	0.43
2:JE:99:ALA:H	2:JE:145:THR:HG22	1.83	0.43
2:JE:103:TYR:HD2	2:JE:147:SER:HB2	1.82	0.43
2:JG:266:HIS:O	2:JG:268:PRO:HD3	2.18	0.43
2:JG:388:TRP:HB3	2:JG:425:LEU:HD21	2.00	0.43
3:JH:137:HIS:O	3:JH:168:SER:HA	2.19	0.43
3:JH:232:THR:HG22	3:JH:270:PHE:CD1	2.53	0.43
3:JH:275:SER:OG	3:JH:276:ARG:N	2.52	0.43
3:KD:211:CYS:SG	3:KD:220:PRO:HG3	2.58	0.43
3:KH:272:PRO:HA	3:KH:292:GLN:OE1	2.17	0.43
15:L2:194:GLU:HG3	15:L2:197:LEU:HD12	1.99	0.43
15:L3:235:LYS:HD2	15:L3:239:HIS:HE1	1.84	0.43
2:LE:354:GLY:O	2:LE:355:ILE:HD13	2.18	0.43
3:LF:330:MET:O	3:LF:333:VAL:N	2.51	0.43
2:LG:189:LEU:HA	2:LG:192:HIS:HE1	1.83	0.43
2:LG:242:LEU:HD12	2:LG:242:LEU:H	1.83	0.43
2:LG:420:GLU:HA	2:LG:423:GLU:OE2	2.19	0.43
3:LH:331:LEU:HD21	2:LI:177:VAL:HG22	2.01	0.43
2:LI:195:LEU:HD12	2:LI:196:GLU:HB3	2.00	0.43
2:LI:236:SER:C	2:LI:243:ARG:HH22	2.20	0.43
2:ME:12:ALA:O	25:ME:501:GTP:N1	2.51	0.43
3:MF:134:GLN:N	3:MF:134:GLN:OE1	2.51	0.43
2:MG:105:ARG:O	2:MG:109:THR:OG1	2.25	0.43
2:MG:402:ARG:HE	2:MG:405:VAL:HG21	1.82	0.43
3:MH:182:PRO:HB2	3:MH:388:MET:CE	2.47	0.43
3:MH:212:PHE:HE1	3:MH:218:THR:HA	1.83	0.43
17:N2:68:LYS:HZ3	17:N2:70:ASP:H	1.66	0.43
3:ND:101:TRP:HB2	3:ND:184:ASN:HD22	1.82	0.43
3:ND:206:ALA:O	3:ND:210:ILE:HG12	2.18	0.43
3:ND:313:VAL:HG23	3:ND:349:VAL:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:285:THR:O	3:NF:289:LEU:HD13	2.18	0.43
3:NF:405:GLU:O	3:NF:409:THR:HG23	2.18	0.43
2:NG:239:THR:OG1	2:NG:243:ARG:NH2	2.47	0.43
2:NG:319:TYR:HB2	2:NG:355:ILE:CD1	2.49	0.43
3:NH:6:HIS:HB3	3:NH:21:TRP:HZ2	1.83	0.43
2:NI:138:PHE:CE1	2:NI:169:PHE:HD2	2.27	0.43
2:NI:152:LEU:CG	2:NI:156:ARG:HH12	2.31	0.43
18:O2:59:SER:HB2	18:O2:60:PRO:HD3	2.00	0.43
3:OD:104:GLY:HA2	3:OD:108:GLU:HG3	2.00	0.43
2:OG:3:GLU:N	2:OG:3:GLU:OE1	2.50	0.43
3:OH:28:HIS:CG	3:OH:47:ILE:HD13	2.54	0.43
3:OH:211:CYS:SG	3:OH:220:PRO:HG3	2.58	0.43
2:OI:286:LEU:H	2:OI:286:LEU:HD23	1.83	0.43
19:P1:397:LYS:O	19:P1:398:ILE:HD13	2.18	0.43
19:P1:428:ASP:OD1	19:P1:430:LYS:HG2	2.18	0.43
2:PE:1:MET:O	2:PE:131:GLY:HA3	2.18	0.43
2:PE:53:PHE:O	2:PE:64:ARG:NH1	2.52	0.43
3:PF:203:ASP:O	3:PF:207:LEU:HG	2.18	0.43
2:PG:70:LEU:HB3	2:PG:97:GLU:O	2.18	0.43
3:PH:37:HIS:HA	24:YM:64:ARG:NH1	2.34	0.43
3:PH:50:TYR:C	3:PH:62:ARG:HH21	2.22	0.43
3:PH:187:LEU:O	3:PH:191:GLN:NE2	2.51	0.43
3:PH:218:THR:OG1	3:PH:219:THR:N	2.51	0.43
3:PH:299:MET:SD	3:PH:300:MET:N	2.90	0.43
2:PI:104:ALA:O	2:PI:108:TYR:HD1	2.01	0.43
2:PI:317:MET:O	2:PI:353:VAL:HA	2.18	0.43
20:Q1:1488:GLU:OE1	20:Q1:1492:HIS:NE2	2.52	0.43
2:QE:53:PHE:O	2:QE:64:ARG:NH1	2.50	0.43
3:QF:6:HIS:HB2	3:QF:134:GLN:NE2	2.34	0.43
3:QF:56:GLY:HA2	24:YI:59:ASN:HA	2.00	0.43
3:QF:101:TRP:HB2	3:QF:184:ASN:HD22	1.83	0.43
3:QF:324:LYS:HD2	2:QG:221:ARG:HA	2.00	0.43
2:QG:312:TYR:HD1	2:QG:381:THR:HB	1.83	0.43
3:RH:21:TRP:CE3	3:RH:61:PRO:HB3	2.54	0.43
3:RH:51:TYR:HB3	3:RH:59:TYR:HB3	2.00	0.43
2:RI:272:TYR:HD2	2:RI:275:VAL:HG13	1.83	0.43
3:RJ:113:VAL:HA	3:RJ:116:VAL:HG12	1.99	0.43
2:SG:269:LEU:O	2:SG:378:LEU:HA	2.18	0.43
3:SH:4:ILE:CD1	3:SH:131:GLN:HB2	2.47	0.43
3:SH:185:ALA:O	3:SH:189:VAL:HG12	2.18	0.43
3:SH:261:PRO:O	3:SH:264:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:172:TYR:N	2:SI:204:VAL:O	2.36	0.43
2:SI:375:VAL:HG22	2:SI:377:MET:SD	2.57	0.43
3:SJ:100:ASN:CG	3:SJ:103:LYS:HG2	2.38	0.43
3:SJ:275:SER:HA	3:SJ:276:ARG:NH2	2.33	0.43
3:TF:72:THR:O	3:TF:76:VAL:HG23	2.18	0.43
3:TF:412:GLU:HA	3:TF:415:MET:HE2	1.99	0.43
2:TG:18:ASN:O	2:TG:22:GLU:HG3	2.18	0.43
2:TG:71:GLU:N	2:TG:71:GLU:OE1	2.52	0.43
3:TH:136:THR:HG22	3:TH:167:PHE:HD2	1.84	0.43
2:TI:185:TYR:O	2:TI:189:LEU:HG	2.17	0.43
2:TI:251:ASP:HB3	2:TI:254:GLU:OE1	2.18	0.43
2:TI:287:SER:HA	2:TI:373:ARG:HD3	2.01	0.43
3:TJ:229:VAL:O	3:TJ:232:THR:OG1	2.27	0.43
3:UF:143:THR:HG22	3:UF:147:MET:HE2	2.00	0.43
3:UF:238:THR:HG21	3:UF:318:ARG:CZ	2.48	0.43
3:UF:262:ARG:HD3	3:UF:262:ARG:H	1.83	0.43
3:VD:165:ASN:OD1	3:VD:166:THR:N	2.52	0.43
3:VD:183:TYR:CE1	3:VD:388:MET:HG2	2.53	0.43
3:VD:284:LEU:HD12	3:VD:289:LEU:HD11	1.99	0.43
3:VH:30:ILE:HG13	3:VH:36:TYR:CD1	2.53	0.43
3:VH:100:ASN:HB3	3:VH:103:LYS:HB2	1.99	0.43
2:WE:47:ASP:O	2:WE:49:PHE:N	2.51	0.43
2:WE:430:LYS:HA	2:WE:433:GLU:CD	2.39	0.43
3:WF:41:ASP:O	3:WF:44:LEU:N	2.52	0.43
2:WI:55:GLU:HB2	2:WI:61:HIS:CD2	2.53	0.43
2:WI:76:ASP:OD1	2:WI:79:ARG:NH1	2.46	0.43
2:WI:154:MET:HA	2:WI:157:LEU:HG	1.99	0.43
2:WI:204:VAL:HG23	2:WI:302:MET:SD	2.58	0.43
2:WI:317:MET:O	2:WI:353:VAL:HA	2.18	0.43
2:WI:320:ARG:HB3	2:WI:360:PRO:HD3	2.00	0.43
22:XD:82:ASN:HB3	22:XD:127:ASP:HA	2.00	0.43
22:XD:170:ARG:CZ	22:XD:172:TYR:HA	2.48	0.43
22:XE:72:LYS:NZ	23:XL:62:ARG:HB3	2.33	0.43
23:XK:59:CYS:HA	23:XK:62:ARG:CZ	2.48	0.43
24:YI:8:LEU:HA	24:YI:11:ILE:HD12	2.00	0.43
24:YI:14:LYS:HZ1	24:YI:72:ILE:HG21	1.83	0.43
24:YI:150:GLU:HA	24:YI:153:ALA:HB2	2.00	0.43
1:A2:98:LEU:O	1:A2:101:SER:OG	2.33	0.43
1:A2:325:ASN:OD1	1:A2:326:VAL:N	2.51	0.43
1:A2:339:LYS:HA	1:A2:342:GLN:CD	2.39	0.43
1:A2:367:ARG:HH22	10:G5:179:LYS:C	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:102:LEU:HD22	1:A3:150:LEU:HD23	2.00	0.43
1:A3:185:ASP:OD1	1:A3:186:ASP:N	2.52	0.43
2:AE:185:TYR:O	2:AE:188:ILE:HG22	2.18	0.43
3:AF:324:LYS:HG3	3:AF:325:GLU:N	2.34	0.43
3:AF:374:ILE:HA	3:AF:377:LEU:HD13	2.01	0.43
2:AG:184:PRO:O	2:AG:188:ILE:HG23	2.18	0.43
2:AG:280:LYS:HE3	2:AG:284:GLU:OE2	2.18	0.43
3:AH:325:GLU:HB3	2:AI:221:ARG:HH11	1.84	0.43
2:AI:102:ASN:ND2	2:AI:411:GLU:HG2	2.20	0.43
4:B7:69:ASP:HA	4:B7:72:ASN:ND2	2.33	0.43
4:B7:77:THR:O	4:B7:80:LYS:HG2	2.18	0.43
4:B7:363:LEU:O	4:B7:366:LEU:HG	2.17	0.43
2:BE:215:ARG:NH1	2:BE:299:ALA:HB1	2.32	0.43
3:BF:21:TRP:CZ2	3:BF:63:ALA:HB2	2.53	0.43
3:BF:41:ASP:OD1	3:BF:42:LEU:N	2.51	0.43
3:BF:109:GLY:O	3:BF:113:VAL:HG13	2.18	0.43
2:BG:311:LYS:NZ	2:BG:342:GLN:O	2.41	0.43
3:BH:40:SER:HB2	3:BH:43:GLN:CD	2.38	0.43
3:BH:77:ARG:HD3	3:BH:90:PHE:CE2	2.53	0.43
3:BH:255:VAL:HA	2:BI:407:TRP:CE2	2.53	0.43
2:BI:79:ARG:HG2	11:H4:20:TYR:OH	2.19	0.43
2:BI:152:LEU:O	2:BI:156:ARG:HG2	2.18	0.43
5:C8:389:LYS:NZ	5:C8:431:ILE:HA	2.34	0.43
3:CF:117:LEU:HA	3:CF:120:VAL:HG22	1.99	0.43
3:CH:324:LYS:HB3	3:CH:324:LYS:HE3	1.80	0.43
2:CI:389:ALA:HA	2:CI:392:ASP:OD2	2.18	0.43
6:D3:423:LEU:HD23	6:D3:423:LEU:HA	1.65	0.43
6:D4:423:LEU:HA	6:D4:423:LEU:HD23	1.78	0.43
6:D4:431:MET:SD	6:D4:431:MET:N	2.91	0.43
6:D8:136:LEU:HB3	6:D8:140:ARG:NH1	2.33	0.43
6:D8:368:LEU:O	6:D8:368:LEU:HD12	2.18	0.43
2:DE:100:ALA:HB3	2:DE:105:ARG:HD3	1.99	0.43
2:DG:133:GLN:HB3	2:DG:252:LEU:HD21	2.00	0.43
2:DG:262:TYR:OH	2:DG:346:TRP:HZ3	2.01	0.43
2:DG:320:ARG:HG2	2:DG:358:GLN:O	2.18	0.43
3:DH:84:ILE:O	3:DH:86:ARG:NH1	2.43	0.43
3:DH:246:LEU:HB2	3:DH:352:ALA:HB1	1.98	0.43
3:DH:278:SER:HA	3:DH:281:TYR:HB2	2.00	0.43
7:E2:13:VAL:N	7:E2:14:PRO:HD3	2.34	0.43
2:EE:276:ILE:HG13	2:EE:280:LYS:HB2	2.01	0.43
3:EF:3:GLU:OE1	3:EF:3:GLU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:112:LEU:O	3:EF:116:VAL:HG12	2.17	0.43
2:EG:5:ILE:HD13	2:EG:64:ARG:HB3	2.00	0.43
2:EG:108:TYR:O	2:EG:112:LYS:NZ	2.41	0.43
8:F6:190:VAL:HG11	8:F6:476:PHE:HE1	1.84	0.43
3:FD:161:ASP:O	3:FD:162:ARG:HD3	2.18	0.43
2:FG:31:GLN:HE22	2:FG:37:PRO:HG3	1.83	0.43
2:FG:214:ARG:HH11	2:FG:215:ARG:HG2	1.83	0.43
9:G2:125:TYR:HB3	9:G2:127:GLU:OE1	2.18	0.43
9:G2:157:ASN:HB3	9:G2:159:MET:SD	2.58	0.43
9:G2:223:TYR:O	9:G2:224:VAL:HB	2.18	0.43
10:G5:566:PHE:CD2	10:G5:739:LEU:HD21	2.53	0.43
3:GD:31:ASP:OD1	3:GD:35:THR:N	2.51	0.43
3:GD:50:TYR:C	3:GD:62:ARG:HE	2.21	0.43
3:GD:378:PHE:CD1	3:GD:419:VAL:HG22	2.53	0.43
2:GE:54:SER:O	2:GE:56:THR:HG23	2.19	0.43
2:GE:102:ASN:CG	2:GE:105:ARG:H	2.22	0.43
2:GE:119:LEU:HA	2:GE:122:ILE:HG22	2.01	0.43
2:GE:203:MET:N	2:GE:203:MET:SD	2.92	0.43
2:GE:320:ARG:HG2	2:GE:358:GLN:O	2.18	0.43
2:GE:363:VAL:HG13	2:GE:366:GLY:HA3	2.00	0.43
3:GH:141:GLY:HA3	25:GH:501:GTP:H5''	2.00	0.43
3:GH:198:GLU:HG2	3:GH:266:PHE:HE2	1.83	0.43
3:GH:253:LEU:O	3:GH:257:MET:HB2	2.19	0.43
11:H4:216:LYS:HG2	11:H4:236:TYR:CD2	2.54	0.43
3:HD:247:ASN:HB3	3:HD:252:LYS:CG	2.48	0.43
3:HD:372:THR:HG21	3:HD:426:GLN:HB2	2.01	0.43
2:HE:211:ASP:O	2:HE:214:ARG:HD3	2.18	0.43
2:HG:89:PRO:O	2:HG:92:LEU:HB2	2.17	0.43
2:HG:261:PRO:HA	3:HH:394:PHE:CE1	2.53	0.43
2:HG:353:VAL:HG12	3:HH:177:ASP:OD1	2.18	0.43
2:HI:306:ASP:HB3	2:HI:309:HIS:HB2	2.00	0.43
2:IE:368:LEU:H	2:IE:368:LEU:HD23	1.83	0.43
2:IE:404:PHE:HA	2:IE:406:HIS:CE1	2.54	0.43
3:IF:6:HIS:HB2	3:IF:134:GLN:NE2	2.34	0.43
3:IF:20:PHE:CZ	3:IF:24:ILE:HD11	2.53	0.43
3:IF:331:LEU:HD21	2:IG:177:VAL:HG22	1.99	0.43
2:II:287:SER:N	2:II:290:GLU:OE2	2.51	0.43
2:II:408:TYR:O	2:II:411:GLU:HG3	2.17	0.43
13:J3:23:GLN:OE1	13:J3:24:ILE:N	2.51	0.43
2:JE:287:SER:N	2:JE:290:GLU:OE2	2.51	0.43
3:JF:330:MET:SD	3:JF:349:VAL:HG21	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:249:ASP:OD1	3:JH:251:ARG:N	2.42	0.43
3:JH:392:LYS:HD2	3:JH:392:LYS:O	2.18	0.43
14:K3:229:SER:O	14:K3:233:THR:HG23	2.19	0.43
14:K3:285:PRO:HB2	16:M2:77:CYS:SG	2.58	0.43
14:K3:350:MET:SD	14:K3:447:LEU:HD13	2.58	0.43
3:KD:284:LEU:HB3	3:KD:362:LYS:NZ	2.33	0.43
3:KD:318:ARG:HB3	3:KD:364:SER:OG	2.19	0.43
2:KE:163:LYS:HB2	2:KE:163:LYS:HE2	1.68	0.43
2:KE:268:PRO:HG3	2:KE:380:ASN:HD22	1.83	0.43
2:KE:370:LYS:O	2:KE:372:GLN:NE2	2.48	0.43
2:KE:411:GLU:OE2	2:KE:413:MET:HG2	2.18	0.43
3:KF:137:HIS:O	3:KF:168:SER:HA	2.17	0.43
3:KF:200:TYR:HD1	3:KF:266:PHE:HB2	1.83	0.43
2:KG:161:TYR:HB3	2:KG:164:LYS:NZ	2.32	0.43
2:KI:2:ARG:HG2	2:KI:242:LEU:HD23	1.99	0.43
2:KI:10:GLY:O	2:KI:14:VAL:HG13	2.19	0.43
15:L3:255:LYS:H	15:L3:255:LYS:HG2	1.61	0.43
2:LE:395:PHE:HA	2:LE:398:MET:HG3	1.99	0.43
3:LH:191:GLN:O	3:LH:195:ASN:ND2	2.43	0.43
3:LH:269:GLY:HA2	3:LH:300:MET:CE	2.48	0.43
3:LH:311:LEU:HD22	3:LH:370:ASN:ND2	2.34	0.43
3:LH:426:GLN:NE2	3:LH:427:ASP:OD2	2.50	0.43
3:MF:99:ASN:OD1	25:MF:501:GTP:PG	2.72	0.43
2:MG:403:ALA:C	2:MG:405:VAL:H	2.20	0.43
3:MH:210:ILE:HA	3:MH:213:ARG:HG2	2.00	0.43
2:MI:345:ASP:N	2:MI:345:ASP:OD1	2.52	0.43
2:MI:387:ALA:O	2:MI:391:LEU:HG	2.18	0.43
3:ND:116:VAL:HG23	3:ND:117:LEU:HD22	2.00	0.43
2:NE:257:THR:HA	3:NF:397:TRP:NE1	2.33	0.43
3:NF:2:ARG:NH1	2:NG:96:LYS:HB3	2.33	0.43
3:NF:41:ASP:O	3:NF:44:LEU:HB3	2.18	0.43
2:NG:140:SER:HB2	2:NG:171:ILE:HG22	2.01	0.43
18:O1:38:TYR:N	20:Q1:1414:LEU:HG	2.34	0.43
3:OD:286:VAL:HA	3:OD:289:LEU:HD12	1.99	0.43
2:OE:145:THR:HG23	25:OE:501:GTP:O3B	2.18	0.43
3:OF:73:MET:SD	3:OF:73:MET:N	2.87	0.43
3:OF:86:ARG:NE	3:OF:86:ARG:HA	2.33	0.43
3:OF:187:LEU:O	3:OF:191:GLN:NE2	2.51	0.43
3:OF:238:THR:HG22	3:OF:241:ARG:NE	2.34	0.43
3:OF:318:ARG:HG2	3:OF:356:ILE:O	2.18	0.43
2:OG:102:ASN:CG	2:OG:105:ARG:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:141:PHE:C	2:OG:143:GLY:H	2.20	0.43
3:OH:61:PRO:HD3	3:OH:84:ILE:HG13	2.00	0.43
3:OH:249:ASP:O	3:OH:253:LEU:HG	2.18	0.43
2:OI:75:VAL:HG11	2:OI:94:THR:CB	2.47	0.43
2:OI:174:ALA:HB3	2:OI:177:VAL:O	2.18	0.43
2:OI:356:ASN:OD1	2:OI:358:GLN:N	2.50	0.43
19:P1:183:ARG:HD3	19:P1:185:TRP:CZ2	2.53	0.43
19:P1:559:HIS:NE2	19:P1:573:ASP:OD2	2.52	0.43
19:P2:397:LYS:O	19:P2:398:ILE:HD13	2.18	0.43
2:PE:89:PRO:HB2	2:PE:90:GLU:OE1	2.18	0.43
2:PE:431:ASP:HA	2:PE:434:GLU:HG3	2.00	0.43
3:PH:6:HIS:ND1	3:PH:134:GLN:HG2	2.33	0.43
3:PH:47:ILE:HG12	3:PH:59:TYR:CD2	2.54	0.43
3:PH:117:LEU:HA	3:PH:120:VAL:HG22	2.00	0.43
3:PH:134:GLN:HA	3:PH:165:ASN:O	2.18	0.43
3:PH:249:ASP:O	3:PH:253:LEU:HG	2.17	0.43
2:PI:55:GLU:HB2	2:PI:61:HIS:CD2	2.53	0.43
2:PI:272:TYR:CZ	2:PI:274:PRO:HG2	2.53	0.43
2:PI:334:THR:O	2:PI:337:THR:OG1	2.32	0.43
2:QE:11:GLN:NE2	25:QE:501:GTP:O3A	2.51	0.43
2:QE:116:ASP:OD1	2:QE:117:LEU:N	2.50	0.43
2:QE:226:ASN:O	2:QE:230:LEU:HG	2.19	0.43
2:QE:367:ASP:OD1	2:QE:367:ASP:O	2.35	0.43
3:QF:4:ILE:HB	3:QF:50:TYR:CE1	2.54	0.43
2:QG:189:LEU:HA	2:QG:192:HIS:ND1	2.33	0.43
3:QH:199:THR:HB	3:QH:265:PHE:HA	1.99	0.43
2:QI:120:ASP:HA	2:QI:123:ARG:HG2	2.00	0.43
2:RE:22:GLU:O	2:RE:26:LEU:HD23	2.17	0.43
2:RE:173:PRO:HB3	2:RE:183:GLU:OE1	2.18	0.43
2:RE:183:GLU:HA	2:RE:186:ASN:ND2	2.33	0.43
3:RF:11:GLN:HG3	25:RF:501:GTP:PA	2.59	0.43
2:RG:196:GLU:HG2	2:RG:197:HIS:ND1	2.33	0.43
2:RG:328:VAL:O	2:RG:332:ILE:HG23	2.18	0.43
3:RH:40:SER:HB3	3:RH:42:LEU:HD23	2.01	0.43
2:RI:152:LEU:HD13	2:RI:156:ARG:HH22	1.83	0.43
2:RI:338:LYS:NZ	2:RI:340:THR:HG23	2.33	0.43
3:RJ:349:VAL:O	3:RJ:350:LYS:NZ	2.39	0.43
3:RJ:378:PHE:HE1	3:RJ:419:VAL:HG13	1.83	0.43
2:SE:10:GLY:O	2:SE:14:VAL:HG13	2.17	0.43
2:SE:201:ALA:N	2:SE:266:HIS:HD2	2.16	0.43
2:SE:287:SER:HA	2:SE:373:ARG:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:297:GLU:OE1	2:SG:300:ASN:N	2.50	0.43
2:SI:416:GLY:O	2:SI:419:SER:N	2.52	0.43
3:SJ:380:ARG:CZ	3:SJ:380:ARG:HB3	2.47	0.43
3:TF:255:VAL:HA	2:TG:407:TRP:NE1	2.34	0.43
3:TH:182:PRO:HA	3:TH:381:ILE:HD11	1.99	0.43
3:TH:290:THR:HA	3:TH:293:MET:CG	2.46	0.43
2:TI:12:ALA:O	25:TI:501:GTP:N1	2.51	0.43
3:TJ:260:PHE:HD1	3:TJ:262:ARG:HH12	1.65	0.43
3:TJ:328:GLU:HA	3:TJ:331:LEU:HB2	2.00	0.43
2:UE:201:ALA:O	2:UE:267:PHE:HA	2.17	0.43
2:UE:405:VAL:O	2:UE:409:VAL:HG22	2.18	0.43
3:UH:5:VAL:HG21	3:UH:123:GLU:HG3	2.00	0.43
3:VD:163:ILE:HD13	3:VD:250:LEU:HB2	2.00	0.43
3:VD:217:LEU:O	3:VD:219:THR:N	2.48	0.43
2:VE:430:LYS:O	2:VE:433:GLU:N	2.52	0.43
3:VF:378:PHE:HE1	3:VF:419:VAL:HG13	1.82	0.43
2:VG:346:TRP:HB3	3:VH:391:ARG:NE	2.34	0.43
2:WE:240:ALA:HA	2:WE:243:ARG:HB2	1.99	0.43
3:WF:255:VAL:HA	2:WG:407:TRP:CZ2	2.53	0.43
22:XE:180:GLU:OE1	22:XE:180:GLU:N	2.41	0.43
23:XJ:236:GLU:N	23:XJ:236:GLU:OE1	2.51	0.43
24:YI:25:PHE:O	24:YI:29:LEU:HG	2.19	0.43
24:YI:98:GLU:O	24:YI:102:THR:HG23	2.18	0.43
24:YM:12:GLU:O	24:YM:16:LYS:HG2	2.19	0.43
2:AE:67:PHE:CE1	2:AE:87:PHE:HE2	2.36	0.43
3:AF:144:GLY:N	25:AF:501:GTP:O2B	2.52	0.43
2:AG:183:GLU:OE2	2:AG:394:LYS:NZ	2.43	0.43
3:AH:214:THR:HG21	3:AH:273:LEU:HG	2.00	0.43
2:AI:42:ILE:HG12	2:AI:55:GLU:OE2	2.19	0.43
2:AI:214:ARG:HH12	2:AI:215:ARG:HG3	1.83	0.43
2:BE:285:GLN:NE2	2:BE:286:LEU:O	2.52	0.43
2:BG:144:GLY:HA3	25:BG:501:GTP:O3G	2.17	0.43
3:BH:21:TRP:CZ2	3:BH:63:ALA:HB2	2.53	0.43
3:BH:105:HIS:HA	3:BH:150:LEU:HD11	2.00	0.43
5:C3:415:MET:SD	5:C3:419:ARG:HB2	2.59	0.43
5:C7:130:ASP:OD1	5:C7:131:LYS:N	2.52	0.43
3:CF:378:PHE:HE1	3:CF:419:VAL:HG13	1.82	0.43
2:CG:211:ASP:O	2:CG:214:ARG:HD3	2.19	0.43
2:CG:332:ILE:HG23	2:CG:336:LYS:NZ	2.33	0.43
3:CH:36:TYR:OH	3:CH:44:LEU:HB2	2.18	0.43
3:CH:124:ALA:HA	3:CH:127:CYS:SG	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:156:ARG:HA	2:CI:159:VAL:HG22	1.99	0.43
2:CI:234:ILE:O	2:CI:237:SER:OG	2.28	0.43
6:D8:195:GLY:O	6:D8:198:VAL:HG22	2.19	0.43
6:D8:201:ILE:HB	6:D8:202:ARG:HH12	1.83	0.43
6:D8:244:SER:O	6:D8:246:LYS:N	2.52	0.43
3:DD:375:GLN:HA	3:DD:378:PHE:CE1	2.53	0.43
3:DD:409:THR:O	3:DD:412:GLU:HG3	2.19	0.43
2:DE:286:LEU:HD11	2:DE:373:ARG:H	1.83	0.43
2:DE:329:ASN:HA	2:DE:332:ILE:HG12	2.01	0.43
3:DF:412:GLU:HA	3:DF:415:MET:HE3	2.01	0.43
2:DG:79:ARG:NH2	11:H4:285:TYR:HB2	2.34	0.43
2:DG:297:GLU:OE1	2:DG:300:ASN:ND2	2.52	0.43
3:DH:362:LYS:HB3	3:DH:363:MET:SD	2.59	0.43
7:E2:170:LEU:O	7:E2:175:ARG:HD3	2.19	0.43
2:EE:203:MET:N	2:EE:203:MET:SD	2.92	0.43
2:EG:107:HIS:CD2	2:EG:152:LEU:HB3	2.53	0.43
2:EG:338:LYS:HZ3	2:EG:339:ARG:H	1.65	0.43
8:F2:156:LEU:HB2	8:F2:254:ILE:HD13	2.00	0.43
8:F7:227:ASP:O	8:F7:231:LYS:HG3	2.19	0.43
3:FF:12:CYS:SG	3:FF:13:GLY:N	2.92	0.43
9:G1:243:LEU:O	9:G1:265:HIS:HA	2.18	0.43
10:G5:25:HIS:HA	10:G5:40:LYS:HD2	2.00	0.43
10:G5:436:TYR:O	10:G5:437:PHE:CD1	2.72	0.43
3:GD:288:GLU:OE2	3:GD:289:LEU:HD12	2.18	0.43
3:GF:4:ILE:HG22	3:GF:134:GLN:OE1	2.19	0.43
3:GF:69:GLU:O	3:GF:72:THR:OG1	2.28	0.43
2:GG:271:THR:HA	2:GG:302:MET:CE	2.48	0.43
3:GH:14:ASN:HD22	3:GH:72:THR:HB	1.84	0.43
11:H4:216:LYS:HD2	11:H4:218:ILE:N	2.33	0.43
11:H4:241:THR:HG23	11:H4:242:GLN:NE2	2.33	0.43
2:HE:39:ASP:N	2:HE:39:ASP:OD1	2.50	0.43
2:HE:102:ASN:HA	2:HE:408:TYR:OH	2.19	0.43
3:HF:224:ASP:O	3:HF:228:LEU:HG	2.18	0.43
2:HG:326:LYS:H	2:HG:326:LYS:HE2	1.82	0.43
2:HG:428:LEU:HD23	2:HG:428:LEU:HA	1.85	0.43
3:HH:54:ALA:HB3	3:HH:58:LYS:HB2	2.01	0.43
3:HH:69:GLU:OE1	3:HH:71:GLY:N	2.42	0.43
3:HH:249:ASP:OD1	3:HH:250:LEU:N	2.51	0.43
3:HH:331:LEU:HD13	3:HH:331:LEU:HA	1.84	0.43
2:HI:278:ALA:HB1	2:HI:282:TYR:CZ	2.52	0.43
12:I2:48:TYR:HA	12:I2:51:ASP:OD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:163:ILE:HB	3:IF:251:ARG:NE	2.33	0.43
3:IF:345:ILE:HD12	3:IF:346:PRO:HD2	2.01	0.43
3:IF:382:SER:HA	3:IF:385:PHE:HD2	1.84	0.43
3:JD:39:ASP:N	3:JD:39:ASP:OD1	2.51	0.43
2:JE:114:ILE:HG22	2:JE:118:VAL:HG13	1.99	0.43
2:JE:220:GLU:O	2:JE:221:ARG:NE	2.44	0.43
3:JF:342:VAL:HG23	3:JF:345:ILE:HG22	2.00	0.43
2:JG:30:ILE:HA	2:JG:36:MET:HE3	1.99	0.43
2:JG:117:LEU:O	2:JG:121:ARG:HG2	2.18	0.43
2:JG:326:LYS:NZ	3:JH:208:TYR:HD1	2.17	0.43
2:JG:414:GLU:N	2:JG:414:GLU:OE1	2.52	0.43
3:JH:239:CYS:HB3	3:JH:248:ALA:HA	2.00	0.43
3:JH:380:ARG:HA	3:JH:383:GLU:OE1	2.18	0.43
2:KE:47:ASP:O	2:KE:49:PHE:N	2.51	0.43
2:KE:216:ASN:ND2	2:KE:275:VAL:HG23	2.33	0.43
3:KF:12:CYS:CB	25:KF:501:GTP:H5'	2.49	0.43
2:KG:260:VAL:HG13	3:KH:397:TRP:CZ2	2.52	0.43
15:L3:154:THR:HA	15:L3:155:PRO:HD3	1.86	0.43
3:LD:28:HIS:CE1	3:LD:241:ARG:HD3	2.53	0.43
3:LD:150:LEU:C	3:LD:154:LYS:HZ3	2.22	0.43
3:LD:179:VAL:O	3:LD:182:PRO:HD2	2.18	0.43
3:LF:42:LEU:HD12	3:LF:243:PRO:HD2	1.99	0.43
3:LH:36:TYR:CZ	3:LH:44:LEU:HD13	2.53	0.43
3:LH:151:LEU:O	3:LH:155:ILE:HG23	2.19	0.43
3:LH:266:PHE:CD1	3:LH:370:ASN:HB2	2.53	0.43
2:LI:125:LEU:HD13	2:LI:128:LEU:HD21	2.00	0.43
2:LI:354:GLY:O	2:LI:355:ILE:HD13	2.18	0.43
3:MF:12:CYS:HA	25:MF:501:GTP:HN22	1.82	0.43
3:MF:261:PRO:HD3	2:MG:406:HIS:CG	2.53	0.43
3:MF:267:MET:O	3:MF:368:ILE:HD12	2.19	0.43
3:MF:311:LEU:HD13	3:MF:342:VAL:HG11	1.99	0.43
3:MH:118:ASP:O	3:MH:122:LYS:HG3	2.19	0.43
3:MH:288:GLU:OE2	3:MH:289:LEU:HD12	2.18	0.43
2:MI:185:TYR:O	2:MI:188:ILE:HG22	2.18	0.43
17:N2:76:ALA:HA	17:N2:96:GLN:HE22	1.84	0.43
3:ND:53:GLU:OE1	3:ND:59:TYR:HD1	2.02	0.43
3:ND:330:MET:HA	3:ND:333:VAL:HG12	2.00	0.43
2:NE:10:GLY:O	2:NE:14:VAL:HG13	2.18	0.43
2:NE:359:PRO:HA	2:NE:360:PRO:HD3	1.89	0.43
3:NF:247:ASN:HB3	3:NF:252:LYS:HG2	2.01	0.43
3:NF:318:ARG:HB3	3:NF:364:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:87:PHE:CD1	2:NG:92:LEU:HD21	2.54	0.43
2:NG:109:THR:O	2:NG:112:LYS:NZ	2.52	0.43
2:NG:154:MET:HA	2:NG:157:LEU:HG	1.99	0.43
3:NH:101:TRP:CZ3	3:NH:187:LEU:HD22	2.53	0.43
3:NH:261:PRO:HD3	2:NI:406:HIS:CD2	2.54	0.43
3:NH:269:GLY:N	3:NH:367:PHE:O	2.51	0.43
3:OF:36:TYR:CZ	3:OF:38:GLY:HA2	2.52	0.43
3:OF:318:ARG:HG3	3:OF:354:CYS:SG	2.59	0.43
3:OH:405:GLU:O	3:OH:409:THR:HG23	2.18	0.43
3:OH:419:VAL:HG12	3:OH:423:GLN:HE22	1.84	0.43
19:P2:85:THR:OG1	19:P2:86:PHE:N	2.49	0.43
2:PG:173:PRO:HG3	2:PG:183:GLU:OE2	2.19	0.43
3:PH:4:ILE:HB	3:PH:50:TYR:CE1	2.54	0.43
20:Q1:1478:LEU:HD21	20:Q1:1485:LEU:HD13	1.99	0.43
2:QE:408:TYR:HA	2:QE:411:GLU:HG3	2.00	0.43
3:QF:217:LEU:O	3:QF:219:THR:N	2.44	0.43
3:QH:118:ASP:O	3:QH:121:ARG:HG2	2.19	0.43
3:QH:395:LEU:HD23	3:QH:399:THR:CG2	2.49	0.43
2:QI:30:ILE:HG13	2:QI:53:PHE:CE2	2.53	0.43
2:QI:252:LEU:HD12	2:QI:253:THR:N	2.33	0.43
2:QI:301:GLN:OE1	2:QI:301:GLN:N	2.51	0.43
2:RE:1:MET:N	2:RE:130:THR:OG1	2.48	0.43
2:RE:252:LEU:HA	2:RE:255:PHE:CD2	2.53	0.43
3:RF:246:LEU:HB3	3:RF:353:VAL:O	2.19	0.43
3:RF:267:MET:HG3	3:RF:369:GLY:O	2.18	0.43
3:RF:378:PHE:HA	3:RF:381:ILE:HG22	2.01	0.43
2:RG:266:HIS:O	2:RG:268:PRO:HD3	2.19	0.43
3:RH:374:ILE:HG22	3:RH:378:PHE:CD2	2.48	0.43
2:RI:175:PRO:C	2:RI:390:ARG:HH11	2.21	0.43
2:RI:413:MET:CG	2:RI:414:GLU:H	2.30	0.43
3:RJ:69:GLU:CD	3:RJ:71:GLY:H	2.21	0.43
3:RJ:217:LEU:HD12	3:RJ:219:THR:H	1.84	0.43
2:SE:216:ASN:OD1	2:SE:217:LEU:N	2.52	0.43
2:SE:236:SER:O	2:SE:243:ARG:NH2	2.48	0.43
2:SE:265:ILE:HB	2:SE:432:TYR:CE1	2.53	0.43
3:SF:86:ARG:HA	3:SF:86:ARG:NE	2.33	0.43
2:SG:103:TYR:HD2	2:SG:147:SER:HB2	1.83	0.43
2:SG:208:ALA:O	2:SG:212:ILE:HG23	2.19	0.43
2:SG:239:THR:OG1	2:SG:243:ARG:NH1	2.51	0.43
2:SG:272:TYR:HD2	2:SG:275:VAL:HG13	1.84	0.43
3:SH:374:ILE:HG22	3:SH:378:PHE:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:415:MET:O	3:SH:419:VAL:HG23	2.19	0.43
2:SI:88:HIS:CD2	2:TI:280:LYS:HZ3	2.37	0.43
2:SI:280:LYS:HD2	2:SI:280:LYS:HA	1.79	0.43
3:TF:102:ALA:HB1	3:TF:401:GLU:OE1	2.19	0.43
3:TF:380:ARG:CZ	3:TF:380:ARG:HB3	2.48	0.43
2:TG:12:ALA:HB1	25:TG:501:GTP:N3	2.33	0.43
2:TG:235:VAL:HA	2:TG:238:ILE:HG12	1.99	0.43
3:TH:32:PRO:O	3:TH:83:GLN:NE2	2.20	0.43
3:TH:167:PHE:HD1	3:TH:200:TYR:HB2	1.83	0.43
2:TI:209:ILE:HG13	2:TI:302:MET:HE2	1.99	0.43
2:UE:11:GLN:HA	2:UE:14:VAL:HG22	2.00	0.43
2:UE:426:ALA:HA	2:UE:429:GLU:OE1	2.18	0.43
3:UF:6:HIS:HD1	3:UF:63:ALA:HB1	1.83	0.43
3:UF:19:LYS:O	3:UF:22:GLU:HG3	2.19	0.43
2:UG:208:ALA:H	2:UG:304:LYS:NZ	2.15	0.43
2:UG:247:ALA:HB3	2:UG:355:ILE:HB	2.00	0.43
3:VD:6:HIS:CE1	3:VD:8:GLN:HB2	2.53	0.43
3:VD:186:THR:HA	3:VD:189:VAL:HG12	1.99	0.43
3:VD:294:PHE:HZ	3:VD:310:TYR:CZ	2.37	0.43
3:VD:426:GLN:H	3:VD:426:GLN:HG3	1.63	0.43
3:VH:20:PHE:O	3:VH:24:ILE:HG13	2.18	0.43
2:WE:3:GLU:H	2:WE:133:GLN:NE2	2.15	0.43
3:WF:21:TRP:CE3	3:WF:61:PRO:HB3	2.54	0.43
2:WG:45:GLY:N	2:WG:55:GLU:O	2.52	0.43
2:WG:287:SER:N	2:WG:290:GLU:OE2	2.51	0.43
22:XE:174:GLU:HA	22:XE:177:LEU:HD12	2.01	0.43
24:YJ:32:CYS:HA	24:YJ:56:TYR:HE1	1.83	0.43
24:YJ:59:ASN:HB2	24:YJ:62:HIS:CE1	2.53	0.43
1:A2:235:SER:O	1:A2:239:LYS:HG3	2.17	0.43
2:AE:2:ARG:O	2:AE:51:THR:OG1	2.17	0.43
3:AF:205:GLU:HA	3:AF:208:TYR:HD2	1.83	0.43
3:AH:20:PHE:CE1	3:AH:24:ILE:HD11	2.54	0.43
3:AH:130:LEU:O	3:AH:162:ARG:NH1	2.52	0.43
3:AH:152:ILE:O	3:AH:156:ARG:HG2	2.19	0.43
3:AH:355:ASP:OD1	3:AH:356:ILE:HG12	2.18	0.43
2:AI:47:ASP:HB3	2:AI:49:PHE:CE1	2.54	0.43
2:AI:145:THR:OG1	25:AI:501:GTP:O3B	2.29	0.43
4:B7:3:THR:HG22	4:B7:4:LEU:H	1.83	0.43
2:BE:156:ARG:HA	2:BE:159:VAL:HG22	2.00	0.43
3:BF:324:LYS:HE2	2:BG:222:PRO:CD	2.46	0.43
2:BG:43:GLY:HA3	10:G5:215:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:119:LEU:HB3	2:BG:123:ARG:NH2	2.33	0.43
2:BI:22:GLU:HG2	2:BI:83:TYR:CE2	2.53	0.43
5:C4:440:ASP:O	5:C4:444:THR:HG23	2.19	0.43
5:C8:199:LEU:HD12	5:C8:200:PHE:N	2.33	0.43
2:CG:12:ALA:HB2	25:CG:501:GTP:H5''	2.00	0.43
2:CI:75:VAL:O	2:CI:78:VAL:HG12	2.18	0.43
2:CI:320:ARG:NH2	2:CI:360:PRO:HA	2.34	0.43
6:D3:75:GLU:HA	6:D3:78:ARG:HE	1.83	0.43
6:D7:323:ARG:O	6:D7:327:THR:HG23	2.19	0.43
3:DD:114:ASP:N	3:DD:114:ASP:OD1	2.50	0.43
3:DD:269:GLY:HA3	3:DD:367:PHE:CD2	2.54	0.43
2:DE:33:ASP:HA	2:DE:85:GLN:HE21	1.83	0.43
2:DE:279:GLU:HA	2:DE:282:TYR:HB3	2.01	0.43
2:DE:308:ARG:NH2	2:DE:341:ILE:HA	2.33	0.43
3:DF:20:PHE:CZ	3:DF:24:ILE:HD11	2.54	0.43
2:DG:175:PRO:C	2:DG:390:ARG:HH11	2.22	0.43
2:DG:427:ALA:O	2:DG:430:LYS:HG3	2.19	0.43
3:DH:4:ILE:HD11	3:DH:131:GLN:HB2	2.01	0.43
7:E3:84:ASP:O	7:E3:86:PRO:HD2	2.18	0.43
2:EE:40:LYS:HE2	10:G5:437:PHE:CE2	2.53	0.43
2:EE:51:THR:HG21	2:EE:243:ARG:HG2	2.00	0.43
2:EG:132:LEU:HD13	2:EG:164:LYS:HE2	2.00	0.43
2:EG:155:GLU:O	2:EG:159:VAL:HG13	2.19	0.43
8:F3:115:ARG:HD2	8:F3:116:LEU:N	2.34	0.43
8:F7:184:VAL:HB	8:F7:226:GLN:HE21	1.84	0.43
3:FF:379:LYS:HZ1	3:FF:419:VAL:HG21	1.84	0.43
9:G1:223:TYR:O	9:G1:224:VAL:HB	2.19	0.43
9:G1:319:GLU:N	9:G1:319:GLU:OE1	2.51	0.43
9:G1:327:LYS:HD2	9:G1:359:PHE:CE1	2.53	0.43
9:G2:420:LEU:HD12	9:G2:512:VAL:HG22	2.01	0.43
10:G5:14:ASN:HA	10:G5:17:LYS:HZ3	1.83	0.43
10:G5:648:GLU:C	10:G5:649:LYS:HD2	2.38	0.43
3:GD:189:VAL:O	3:GD:193:VAL:HG12	2.19	0.43
3:GD:213:ARG:HA	3:GD:213:ARG:HD3	1.85	0.43
2:GE:332:ILE:HD12	3:GF:175:VAL:HG21	1.99	0.43
3:GF:197:ASP:N	3:GF:197:ASP:OD1	2.51	0.43
3:GF:272:PRO:HA	3:GF:292:GLN:OE1	2.19	0.43
2:GI:208:ALA:HB3	2:GI:302:MET:HA	2.00	0.43
11:H3:292:MET:O	11:H3:294:ASP:N	2.51	0.43
3:HD:7:LEU:O	3:HD:135:LEU:HA	2.19	0.43
3:HD:246:LEU:H	3:HD:246:LEU:HD23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:172:TYR:N	2:HE:204:VAL:O	2.26	0.43
2:HG:196:GLU:HG2	2:HG:197:HIS:ND1	2.33	0.43
3:HH:148:GLY:O	3:HH:152:ILE:HG12	2.19	0.43
3:HH:345:ILE:HD12	3:HH:346:PRO:HD2	1.99	0.43
2:HI:202:PHE:CE1	2:HI:378:LEU:HD11	2.54	0.43
2:HI:253:THR:O	2:HI:257:THR:HG23	2.19	0.43
2:IE:212:ILE:HA	2:IE:215:ARG:HE	1.83	0.43
2:IE:315:CYS:O	2:IE:351:PHE:HA	2.18	0.43
2:IE:363:VAL:HG13	2:IE:366:GLY:HA3	2.01	0.43
2:IG:389:ALA:HA	2:IG:392:ASP:OD2	2.19	0.43
2:II:82:THR:O	2:II:85:GLN:NE2	2.40	0.43
2:II:317:MET:CE	2:II:377:MET:HG2	2.49	0.43
2:JE:326:LYS:HG3	3:JF:220:PRO:HD2	2.00	0.43
3:JF:121:ARG:O	3:JF:125:GLU:OE1	2.36	0.43
2:JG:189:LEU:HD23	2:JG:192:HIS:HE1	1.83	0.43
2:JG:377:MET:SD	2:JG:379:SER:HB3	2.59	0.43
14:K2:194:LYS:NZ	14:K3:16:VAL:HG13	2.32	0.43
14:K3:191:ILE:HD13	14:K4:20:GLU:HG3	1.99	0.43
14:K4:136:THR:HG21	14:K4:288:THR:O	2.19	0.43
3:KD:170:VAL:CG1	3:KD:171:PRO:HD2	2.49	0.43
2:KE:239:THR:HA	2:KE:242:LEU:HD23	2.01	0.43
3:KF:257:MET:O	3:KF:259:PRO:HD3	2.18	0.43
2:KG:224:TYR:CE1	25:KG:501:GTP:C6	3.06	0.43
2:KG:414:GLU:N	2:KG:414:GLU:OE1	2.52	0.43
3:KH:405:GLU:OE1	3:KH:405:GLU:N	2.40	0.43
15:L2:90:LEU:HD22	3:LF:392:LYS:HE3	1.99	0.43
2:LE:36:MET:N	2:LE:61:HIS:HE1	2.16	0.43
3:LF:228:LEU:O	3:LF:232:THR:HG23	2.19	0.43
3:LF:282:ARG:CZ	3:LF:282:ARG:HA	2.48	0.43
3:LH:240:LEU:HD22	3:LH:248:ALA:HB1	2.00	0.43
2:LI:16:ILE:HD11	2:LI:138:PHE:HB3	2.01	0.43
2:LI:377:MET:SD	2:LI:379:SER:HB3	2.59	0.43
16:M2:45:PHE:HB2	16:M2:94:GLU:O	2.19	0.43
2:ME:102:ASN:HD21	2:ME:411:GLU:HG2	1.83	0.43
3:MF:325:GLU:HA	3:MF:328:GLU:HG3	2.01	0.43
2:MG:198:SER:OG	2:MG:199:ASP:N	2.52	0.43
17:N3:80:ASN:O	17:N3:84:GLY:N	2.39	0.43
2:NE:220:GLU:HG2	2:NE:221:ARG:HE	1.84	0.43
3:NF:80:PRO:HB2	3:NF:81:PHE:CE2	2.54	0.43
2:NG:239:THR:HG22	2:NG:242:LEU:HD12	2.00	0.43
2:NG:306:ASP:OD2	2:NG:309:HIS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:345:ASP:N	2:NG:345:ASP:OD1	2.51	0.43
2:NG:393:HIS:HA	2:NG:396:ASP:OD2	2.19	0.43
3:NH:246:LEU:HB3	3:NH:353:VAL:O	2.19	0.43
2:NI:28:HIS:HB2	2:NI:30:ILE:HG12	2.00	0.43
2:NI:157:LEU:HD12	2:NI:166:LYS:HE2	2.00	0.43
18:O2:4:ASN:OD1	18:O2:5:TYR:N	2.52	0.43
3:OD:52:ASN:O	3:OD:60:VAL:N	2.49	0.43
2:OE:207:GLU:HB2	2:OE:304:LYS:NZ	2.33	0.43
2:OE:331:ALA:O	2:OE:334:THR:OG1	2.25	0.43
2:OE:392:ASP:OD1	2:OE:393:HIS:N	2.51	0.43
3:OF:272:PRO:HB3	3:OF:282:ARG:NH2	2.33	0.43
3:OF:374:ILE:HG22	3:OF:378:PHE:HD2	1.83	0.43
3:OF:380:ARG:HA	3:OF:383:GLU:OE1	2.17	0.43
2:OG:220:GLU:N	2:OG:220:GLU:OE1	2.52	0.43
3:OH:180:VAL:HG13	3:OH:184:ASN:OD1	2.18	0.43
2:OI:332:ILE:HG13	2:OI:336:LYS:NZ	2.33	0.43
19:P1:14:LEU:N	19:P1:582:VAL:O	2.47	0.43
19:P1:18:ALA:HB2	19:P1:613:ARG:NH2	2.33	0.43
19:P2:278:SER:O	19:P2:280:SER:N	2.50	0.43
2:PE:252:LEU:HD12	2:PE:253:THR:N	2.33	0.43
3:PF:11:GLN:HE21	25:PF:501:GTP:H3'	1.83	0.43
3:PF:41:ASP:N	3:PF:41:ASP:OD1	2.51	0.43
3:PF:148:GLY:O	3:PF:152:ILE:HG12	2.18	0.43
3:PF:261:PRO:O	3:PF:264:HIS:NE2	2.52	0.43
3:PF:379:LYS:O	3:PF:382:SER:OG	2.24	0.43
3:PH:86:ARG:HA	3:PH:86:ARG:CZ	2.48	0.43
3:PH:146:GLY:O	3:PH:150:LEU:HG	2.18	0.43
3:PH:257:MET:O	3:PH:312:THR:HG21	2.18	0.43
2:PI:39:ASP:N	2:PI:39:ASP:OD1	2.50	0.43
2:PI:70:LEU:HG	2:PI:145:THR:HB	2.00	0.43
2:PI:101:ASN:ND2	2:PI:182:VAL:HB	2.34	0.43
2:PI:208:ALA:HB3	2:PI:302:MET:HA	2.00	0.43
20:Q1:1469:LEU:HG	20:Q1:1470:SER:H	1.84	0.43
2:QE:111:GLY:HA3	2:QE:152:LEU:HD22	2.01	0.43
2:QE:112:LYS:O	2:QE:115:VAL:HG12	2.19	0.43
2:QE:422:ARG:O	2:QE:425:LEU:HG	2.18	0.43
3:QF:51:TYR:N	3:QF:62:ARG:HH21	2.16	0.43
2:QG:97:GLU:N	2:QG:97:GLU:OE1	2.51	0.43
2:QG:173:PRO:HG3	2:QG:183:GLU:OE1	2.19	0.43
2:QG:213:CYS:O	2:QG:219:ILE:N	2.41	0.43
3:QH:30:ILE:HG22	3:QH:31:ASP:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:101:TRP:HE1	3:QH:149:THR:HG21	1.83	0.43
3:QH:139:LEU:H	3:QH:139:LEU:HD23	1.84	0.43
21:R2:140:LEU:O	21:R2:143:GLU:HG3	2.17	0.43
2:RE:427:ALA:HA	2:RE:430:LYS:HG2	2.00	0.43
3:RF:3:GLU:HB2	3:RF:49:VAL:O	2.18	0.43
3:RF:80:PRO:O	3:RF:83:GLN:NE2	2.28	0.43
3:RF:258:VAL:HG11	2:RG:407:TRP:HZ2	1.84	0.43
3:RF:382:SER:HA	3:RF:385:PHE:HD2	1.83	0.43
3:RH:324:LYS:HB3	2:RI:210:TYR:CE1	2.54	0.43
2:RI:165:SER:CB	2:RI:252:LEU:HD13	2.47	0.43
3:RJ:176:SER:O	3:RJ:178:THR:N	2.51	0.43
2:SG:397:LEU:HB2	2:SG:401:LYS:HZ3	1.83	0.43
2:SI:45:GLY:HA2	2:SI:49:PHE:CE2	2.54	0.43
3:SJ:11:GLN:HA	3:SJ:14:ASN:OD1	2.18	0.43
2:TG:216:ASN:HD21	2:TG:275:VAL:HG23	1.84	0.43
3:TH:314:ALA:HB3	3:TH:368:ILE:HG23	1.99	0.43
3:TJ:13:GLY:HA2	3:TJ:16:ILE:HB	2.01	0.43
3:UD:189:VAL:HA	3:UD:192:LEU:HB2	2.01	0.43
3:UD:228:LEU:O	3:UD:232:THR:HG23	2.18	0.43
3:UD:325:GLU:HA	3:UD:328:GLU:HG3	2.00	0.43
2:UE:167:LEU:HB3	2:UE:169:PHE:CZ	2.54	0.43
2:UE:187:SER:O	2:UE:191:THR:HG23	2.18	0.43
2:UE:211:ASP:HB2	2:UE:215:ARG:NH2	2.33	0.43
3:UF:3:GLU:HA	3:UF:49:VAL:HG23	2.00	0.43
3:UF:404:ASP:OD1	3:UF:407:GLU:HG3	2.18	0.43
2:UG:315:CYS:HG	2:UG:343:PHE:HZ	1.65	0.43
3:UH:72:THR:O	3:UH:76:VAL:HG23	2.18	0.43
3:UH:86:ARG:HB3	3:UH:88:ASP:HB3	2.00	0.43
3:UH:105:HIS:HD2	3:UH:106:TYR:CE1	2.36	0.43
3:UH:186:THR:HG21	3:UH:385:PHE:HE2	1.83	0.43
3:VD:52:ASN:O	3:VD:60:VAL:N	2.51	0.43
3:VD:164:MET:HE1	3:VD:195:ASN:O	2.18	0.43
2:VE:431:ASP:O	2:VE:435:VAL:HG22	2.19	0.43
2:VG:138:PHE:HZ	2:VG:235:VAL:HG11	1.84	0.43
2:WE:216:ASN:ND2	2:WE:275:VAL:HG23	2.33	0.43
2:WE:384:ILE:HG13	2:WE:385:ALA:N	2.33	0.43
2:WG:390:ARG:HA	2:WG:393:HIS:NE2	2.32	0.43
3:WH:61:PRO:HG2	3:WH:85:PHE:CD1	2.53	0.43
3:WH:319:GLY:HA2	3:WH:357:PRO:HG3	1.99	0.43
3:WH:372:THR:HG21	3:WH:426:GLN:HG2	1.99	0.43
2:WI:318:LEU:HA	2:WI:354:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XC:59:ILE:HG22	22:XC:156:ILE:HB	2.00	0.43
22:XC:89:PHE:HB2	22:XC:156:ILE:HD13	2.00	0.43
22:XC:92:GLN:HG2	22:XC:101:ARG:O	2.18	0.43
22:XD:140:THR:HG21	22:XD:148:TYR:HB2	2.00	0.43
24:YI:30:GLU:O	24:YI:34:GLU:OE1	2.37	0.43
24:YI:65:ILE:HA	24:YI:68:MET:HE1	2.00	0.43
24:YN:41:ARG:NH1	24:YN:44:SER:H	2.16	0.43
2:AE:283:HIS:CE1	2:ME:88:HIS:HA	2.52	0.43
2:AE:329:ASN:O	2:AE:332:ILE:HG22	2.18	0.43
3:AF:102:ALA:H	3:AF:398:TYR:HE1	1.67	0.43
3:AF:103:LYS:HD3	3:AF:103:LYS:HA	1.84	0.43
2:AG:31:GLN:OE1	2:AG:36:MET:HA	2.19	0.43
2:AG:189:LEU:O	2:AG:192:HIS:ND1	2.51	0.43
3:AH:246:LEU:HB3	3:AH:353:VAL:O	2.18	0.43
3:AH:374:ILE:HG22	3:AH:378:PHE:CD1	2.52	0.43
2:AI:82:THR:HA	2:AI:84:ARG:NH1	2.32	0.43
2:AI:152:LEU:O	2:AI:155:GLU:HG3	2.17	0.43
2:AI:430:LYS:HA	2:AI:433:GLU:OE2	2.19	0.43
4:B3:141:VAL:HA	4:B3:144:ILE:HD12	2.00	0.43
4:B3:413:ARG:NH1	6:D3:400:GLN:HA	2.25	0.43
4:B8:121:GLU:HB2	6:D7:409:ARG:NH1	2.34	0.43
4:B8:275:PHE:CE2	4:B8:279:LEU:HD11	2.54	0.43
4:B8:380:LYS:O	4:B8:383:THR:OG1	2.23	0.43
3:BF:198:GLU:HG2	3:BF:266:PHE:HE2	1.84	0.43
2:BG:75:VAL:HG23	2:BG:92:LEU:HD12	2.01	0.43
2:BG:76:ASP:O	2:BG:80:THR:HG23	2.19	0.43
3:BH:41:ASP:HB2	11:H4:9:LEU:HB3	1.99	0.43
3:BH:282:ARG:HH22	3:BH:292:GLN:CD	2.22	0.43
2:BI:326:LYS:HA	2:BI:329:ASN:ND2	2.34	0.43
2:CG:126:ALA:HA	2:CG:129:CYS:SG	2.58	0.43
2:CG:354:GLY:O	2:CG:355:ILE:HD13	2.19	0.43
3:CH:232:THR:O	3:CH:236:VAL:HG13	2.18	0.43
2:CI:209:ILE:CG2	2:CI:227:LEU:HG	2.48	0.43
6:D8:429:LYS:HG3	6:D8:430:CYS:N	2.34	0.43
3:DD:324:LYS:HD3	2:DE:210:TYR:CE1	2.54	0.43
3:DF:216:LYS:HD2	3:DF:276:ARG:NH2	2.32	0.43
3:DF:331:LEU:HD11	2:DG:176:GLN:OE1	2.19	0.43
2:EE:225:THR:OG1	2:EE:226:ASN:N	2.51	0.43
2:EE:438:ASP:OD2	3:EF:390:ARG:NH2	2.52	0.43
3:EF:164:MET:O	3:EF:164:MET:SD	2.75	0.43
3:EF:170:VAL:HG21	3:EF:201:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:282:ARG:NH2	3:EH:292:GLN:OE1	2.51	0.43
8:F2:357:LEU:CD2	8:F2:455:LEU:HB2	2.47	0.43
8:F2:377:LEU:HA	8:F2:380:ARG:HG2	2.00	0.43
8:F3:293:PRO:HA	8:F3:296:TRP:HE3	1.84	0.43
8:F7:184:VAL:O	8:F7:187:PRO:HD2	2.19	0.43
3:FD:238:THR:HG21	3:FD:318:ARG:HD2	2.00	0.43
2:FE:285:GLN:NE2	2:FE:287:SER:HB3	2.30	0.43
2:FE:320:ARG:NH2	2:FE:360:PRO:HA	2.34	0.43
2:FE:325:PRO:O	2:FE:328:VAL:HG22	2.18	0.43
2:FE:333:ALA:O	2:FE:337:THR:HG23	2.19	0.43
3:FF:176:SER:O	3:FF:178:THR:N	2.51	0.43
2:FG:126:ALA:HA	2:FG:129:CYS:SG	2.58	0.43
3:FH:317:PHE:CE2	3:FH:326:VAL:HG23	2.54	0.43
9:G2:103:PHE:HD2	9:G2:179:LYS:HE3	1.83	0.43
9:G2:440:PHE:CD1	9:G2:451:ILE:HG22	2.54	0.43
9:G2:510:GLU:O	9:G2:514:LYS:HG3	2.19	0.43
10:G5:622:ARG:HA	10:G5:625:GLU:HG2	2.01	0.43
2:GE:313:MET:CE	2:GE:382:THR:HG23	2.49	0.43
2:GE:326:LYS:HE3	3:GF:220:PRO:HD2	1.99	0.43
3:GF:36:TYR:CZ	3:GF:38:GLY:HA2	2.54	0.43
3:GF:379:LYS:HG3	3:GF:380:ARG:N	2.34	0.43
2:GG:331:ALA:O	2:GG:335:ILE:HG12	2.18	0.43
3:GH:267:MET:HA	3:GH:268:PRO:HD3	1.84	0.43
2:GI:32:PRO:O	2:GI:85:GLN:NE2	2.44	0.43
11:H3:9:LEU:HG	11:H3:10:PHE:H	1.84	0.43
11:H4:305:ARG:O	11:H4:309:GLN:OE1	2.36	0.43
3:HD:350:LYS:HE3	2:HE:181:VAL:N	2.34	0.43
2:HG:260:VAL:HG13	3:HH:397:TRP:HH2	1.84	0.43
2:HI:120:ASP:O	2:HI:123:ARG:HG2	2.19	0.43
3:IF:378:PHE:HE1	3:IF:419:VAL:HG13	1.84	0.43
3:IF:409:THR:O	3:IF:412:GLU:HG3	2.19	0.43
3:IH:196:THR:HG21	3:IH:199:THR:OG1	2.18	0.43
3:IH:375:GLN:HA	3:IH:378:PHE:CZ	2.53	0.43
3:IH:412:GLU:HA	3:IH:415:MET:HG3	1.99	0.43
13:J2:75:ALA:O	13:J2:77:ASN:N	2.51	0.43
3:JD:11:GLN:HG3	25:JD:501:GTP:C5'	2.49	0.43
3:JD:350:LYS:HE3	2:JE:181:VAL:N	2.30	0.43
3:JD:385:PHE:HZ	3:JD:408:PHE:HB3	1.82	0.43
2:JE:320:ARG:HG2	2:JE:358:GLN:O	2.19	0.43
3:JF:213:ARG:O	3:JF:216:LYS:HE2	2.19	0.43
2:JG:401:LYS:HE3	2:JG:401:LYS:HB3	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K2:206:LEU:HD23	14:K2:206:LEU:HA	1.90	0.43
14:K2:338:GLN:CD	14:K3:15:ARG:HH22	2.22	0.43
2:KG:211:ASP:HA	2:KG:214:ARG:CD	2.48	0.43
3:KH:51:TYR:HB3	3:KH:59:TYR:HB3	2.01	0.43
3:KH:173:PRO:O	3:KH:380:ARG:NH2	2.52	0.43
15:L2:192:GLU:O	15:L2:196:VAL:HG23	2.19	0.43
3:LD:19:LYS:HA	3:LD:19:LYS:HD3	1.88	0.43
3:LD:198:GLU:OE2	3:LD:266:PHE:HD2	2.00	0.43
3:LD:391:ARG:HG3	3:LD:391:ARG:O	2.19	0.43
2:LG:172:TYR:HB2	2:LG:203:MET:HB3	2.00	0.43
3:LH:266:PHE:HB3	3:LH:368:ILE:HD11	2.00	0.43
2:LI:240:ALA:HA	2:LI:243:ARG:HB2	2.00	0.43
2:ME:102:ASN:ND2	2:ME:411:GLU:HG2	2.33	0.43
2:ME:263:PRO:HB2	2:ME:264:ARG:NH1	2.34	0.43
2:MG:244:PHE:HB2	2:MG:356:ASN:HD21	1.84	0.43
2:MG:338:LYS:HZ2	2:MG:340:THR:N	2.07	0.43
2:MG:393:HIS:CE1	2:MG:394:LYS:HG3	2.54	0.43
2:MG:437:VAL:O	18:O2:55:ARG:NH1	2.49	0.43
3:MH:214:THR:HG23	3:MH:215:LEU:HD22	2.00	0.43
3:MH:390:ARG:CZ	18:O2:42:ILE:HG12	2.48	0.43
2:MI:427:ALA:HA	2:MI:430:LYS:HG2	2.01	0.43
3:ND:321:MET:CE	3:ND:363:MET:HG3	2.49	0.43
2:NG:338:LYS:HA	2:NG:338:LYS:HD2	1.90	0.43
2:NG:389:ALA:HA	2:NG:392:ASP:OD2	2.19	0.43
2:NG:417:GLU:OE1	2:NG:417:GLU:N	2.44	0.43
2:NG:427:ALA:HA	2:NG:430:LYS:HG2	2.00	0.43
3:NH:12:CYS:CA	3:NH:15:GLN:HE22	2.19	0.43
2:NI:112:LYS:O	2:NI:115:VAL:HG12	2.18	0.43
2:NI:174:ALA:HB3	2:NI:177:VAL:O	2.18	0.43
2:NI:301:GLN:OE1	2:NI:302:MET:N	2.52	0.43
2:OE:101:ASN:OD1	2:OE:144:GLY:HA2	2.18	0.43
3:OF:3:GLU:OE2	3:OF:127:CYS:HB2	2.19	0.43
3:OF:263:LEU:HD12	3:OF:370:ASN:HD21	1.83	0.43
3:OF:324:LYS:NZ	2:OG:222:PRO:O	2.46	0.43
2:OG:251:ASP:CG	2:OG:252:LEU:H	2.22	0.43
3:OH:5:VAL:HG22	3:OH:62:ARG:HB3	2.00	0.43
3:OH:72:THR:O	3:OH:76:VAL:HG13	2.18	0.43
3:OH:152:ILE:HG13	3:OH:153:SER:N	2.33	0.43
2:OI:384:ILE:HB	2:OI:388:TRP:CZ3	2.54	0.43
19:P2:172:GLU:OE2	19:P2:187:LEU:N	2.51	0.43
19:P2:445:GLN:H	19:P2:454:GLU:HG3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:405:GLU:O	3:PH:409:THR:HG23	2.18	0.43
2:PI:217:LEU:HB3	2:PI:219:ILE:HG12	2.00	0.43
20:Q1:1488:GLU:OE2	20:Q1:1489:GLU:HG3	2.18	0.43
20:Q2:1452:ARG:HA	20:Q2:1455:ARG:HB3	2.01	0.43
3:QF:46:ARG:O	3:QF:49:VAL:HG22	2.19	0.43
2:QG:420:GLU:HA	2:QG:423:GLU:CD	2.39	0.43
3:QH:230:SER:HA	3:QH:233:MET:HG2	2.00	0.43
2:QI:226:ASN:O	2:QI:230:LEU:HG	2.19	0.43
2:RE:145:THR:HG1	25:RE:501:GTP:PB	2.41	0.43
2:RE:166:LYS:HB2	2:RE:199:ASP:CG	2.39	0.43
3:RF:138:SER:HB3	25:RF:501:GTP:H5''	2.01	0.43
2:RG:188:ILE:HG23	2:RG:395:PHE:CZ	2.54	0.43
2:RG:189:LEU:HD11	2:RG:418:PHE:CE1	2.53	0.43
3:RH:405:GLU:O	3:RH:409:THR:HG23	2.18	0.43
2:RI:36:MET:HE3	2:RI:37:PRO:HD2	2.01	0.43
3:RJ:224:ASP:O	3:RJ:228:LEU:HG	2.19	0.43
2:SE:167:LEU:HB3	2:SE:169:PHE:CZ	2.53	0.43
2:SE:216:ASN:ND2	2:SE:275:VAL:HG23	2.34	0.43
3:SF:31:ASP:OD2	3:SF:33:THR:OG1	2.37	0.43
3:SF:36:TYR:CE2	3:SF:38:GLY:HA2	2.54	0.43
3:SF:426:GLN:NE2	3:SF:427:ASP:OD2	2.52	0.43
2:SG:2:ARG:NE	2:SG:242:LEU:HD13	2.34	0.43
2:SG:287:SER:N	2:SG:290:GLU:OE2	2.51	0.43
2:SI:31:GLN:HB2	2:SI:35:GLN:O	2.19	0.43
3:SJ:2:ARG:O	3:SJ:49:VAL:HG23	2.18	0.43
3:TF:330:MET:CG	3:TF:349:VAL:HG11	2.49	0.43
3:TF:343:GLU:OE1	3:TF:343:GLU:N	2.45	0.43
2:TG:89:PRO:HD3	2:UE:283:HIS:NE2	2.34	0.43
3:TH:396:HIS:O	3:TH:399:THR:OG1	2.28	0.43
2:TI:75:VAL:HA	2:TI:78:VAL:HG12	2.01	0.43
2:TI:174:ALA:HB3	2:TI:177:VAL:O	2.18	0.43
2:TI:230:LEU:HA	2:TI:233:GLN:HG3	2.01	0.43
3:TJ:275:SER:OG	3:TJ:276:ARG:N	2.52	0.43
3:UF:240:LEU:HD22	3:UF:248:ALA:HB1	2.01	0.43
3:VD:42:LEU:O	3:VD:46:ARG:HG2	2.19	0.43
3:VD:169:VAL:HA	3:VD:202:ILE:HB	2.01	0.43
3:VD:378:PHE:CE1	3:VD:419:VAL:HG22	2.52	0.43
3:VD:406:MET:O	3:VD:410:GLU:OE1	2.37	0.43
2:VE:137:ILE:HB	2:VE:168:GLU:HG3	2.00	0.43
2:VE:247:ALA:HB3	2:VE:355:ILE:HB	2.01	0.43
2:VG:221:ARG:N	2:VG:222:PRO:HD3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:262:ARG:HA	3:VH:264:HIS:CE1	2.53	0.43
3:WF:5:VAL:HB	3:WF:133:PHE:CD1	2.51	0.43
3:WF:75:SER:O	3:WF:78:SER:OG	2.27	0.43
3:WH:117:LEU:HB3	3:WH:121:ARG:NH2	2.34	0.43
2:WI:390:ARG:HG3	2:WI:391:LEU:N	2.34	0.43
22:XC:92:GLN:NE2	22:XC:93:VAL:O	2.52	0.43
22:XE:33:HIS:CD2	22:XE:35:LYS:HG3	2.53	0.43
22:XE:92:GLN:HB3	22:XE:153:ARG:HG3	2.01	0.43
23:XJ:89:TYR:CD2	23:XJ:125:LYS:HD3	2.54	0.43
23:XL:54:THR:O	23:XL:57:ARG:NH1	2.51	0.43
24:YM:59:ASN:N	24:YM:63:ARG:HH12	2.16	0.43
24:YN:125:LEU:HD11	24:YN:138:VAL:HG21	2.00	0.43
1:A3:84:LEU:HA	1:A3:232:LEU:HD21	2.00	0.43
2:AE:186:ASN:HA	2:AE:189:LEU:HD12	2.00	0.43
2:AG:406:HIS:CE1	2:AG:407:TRP:CD1	3.07	0.43
4:B2:98:SER:HA	4:B2:101:GLN:HE21	1.83	0.43
4:B2:281:TRP:NE1	4:B2:285:ASN:ND2	2.66	0.43
4:B2:313:LEU:HD11	4:B3:194:LEU:HA	2.01	0.43
2:BE:202:PHE:CE1	2:BE:268:PRO:HD2	2.54	0.43
2:BE:417:GLU:HA	2:BE:420:GLU:HG3	2.00	0.43
3:BF:224:ASP:O	3:BF:228:LEU:HG	2.18	0.43
2:BG:248:LEU:HD11	2:BG:353:VAL:HG13	2.01	0.43
3:BH:92:PHE:HE1	10:G5:307:TYR:CD1	2.37	0.43
5:C8:259:SER:O	5:C8:262:GLN:HG2	2.18	0.43
3:CH:41:ASP:OD1	3:CH:41:ASP:N	2.52	0.43
3:CH:203:ASP:OD2	3:CH:205:GLU:HB2	2.18	0.43
2:CI:388:TRP:CZ3	2:CI:432:TYR:HE2	2.37	0.43
3:CJ:130:LEU:O	3:CJ:162:ARG:HD2	2.19	0.43
3:CJ:164:MET:SD	3:CJ:164:MET:O	2.77	0.43
3:CJ:187:LEU:HD21	3:CJ:408:PHE:CE1	2.53	0.43
6:D3:320:TYR:HD1	6:D3:323:ARG:HH22	1.67	0.43
6:D8:171:TYR:CE1	6:D8:303:ALA:HB1	2.54	0.43
6:D8:389:ARG:HA	6:D8:392:LYS:NZ	2.33	0.43
2:DE:75:VAL:O	2:DE:78:VAL:HG22	2.19	0.43
2:DE:288:VAL:HG21	2:DE:327:ASP:CG	2.39	0.43
2:DG:232:GLY:O	2:DG:235:VAL:HG12	2.19	0.43
3:DH:25:SER:HB2	3:DH:30:ILE:HB	1.99	0.43
3:DH:36:TYR:CE2	3:DH:38:GLY:HA2	2.53	0.43
7:E2:131:GLY:N	7:E2:132:PRO:HD2	2.34	0.43
7:E2:147:LYS:NZ	7:E2:150:VAL:HG22	2.34	0.43
2:EE:53:PHE:CD1	2:EE:61:HIS:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:56:THR:HB	2:FE:285:GLN:CG	2.47	0.43
2:EE:286:LEU:HG	2:EE:373:ARG:HD2	2.01	0.43
2:EE:326:LYS:HA	2:EE:329:ASN:ND2	2.33	0.43
3:EF:30:ILE:HG22	3:EF:31:ASP:O	2.18	0.43
3:EF:151:LEU:O	3:EF:155:ILE:HG23	2.18	0.43
3:EF:282:ARG:HH22	3:EF:292:GLN:CD	2.21	0.43
2:EG:33:ASP:OD1	2:EG:34:GLY:N	2.51	0.43
2:EG:161:TYR:HB3	2:EG:164:LYS:NZ	2.34	0.43
2:EG:257:THR:HA	3:EH:397:TRP:CE2	2.53	0.43
3:EH:375:GLN:H	3:EH:375:GLN:CD	2.21	0.43
3:EH:378:PHE:O	3:EH:381:ILE:HG22	2.19	0.43
8:F2:197:ASN:HA	8:F2:200:LYS:HD2	2.01	0.43
8:F3:121:LEU:HB2	8:F3:122:ARG:NH1	2.33	0.43
8:F3:292:ILE:HG22	8:F3:294:GLU:H	1.83	0.43
3:FD:124:ALA:HA	3:FD:127:CYS:SG	2.58	0.43
3:FD:166:THR:HG22	3:FD:198:GLU:O	2.18	0.43
2:FE:69:ASP:OD1	2:FE:70:LEU:N	2.51	0.43
2:FE:283:HIS:ND1	2:FE:283:HIS:O	2.52	0.43
2:FG:206:ASN:OD1	2:FG:207:GLU:N	2.51	0.43
9:G1:280:GLU:HG2	9:G1:281:ARG:N	2.33	0.43
10:G5:655:THR:HG23	10:G5:656:LYS:HE2	2.01	0.43
3:GD:189:VAL:HG13	3:GD:415:MET:CE	2.49	0.43
2:GE:338:LYS:HZ2	2:GE:339:ARG:H	1.67	0.43
3:GF:226:ASN:HA	3:GF:229:VAL:HG22	2.00	0.43
2:GG:119:LEU:O	2:GG:123:ARG:HG2	2.19	0.43
3:GH:30:ILE:HD12	3:GH:30:ILE:H	1.84	0.43
3:GH:219:THR:N	3:GH:220:PRO:HD3	2.34	0.43
3:GH:404:ASP:N	3:GH:404:ASP:OD1	2.51	0.43
11:H3:286:MET:SD	11:H3:286:MET:N	2.92	0.43
11:H4:26:GLN:O	11:H4:42:LEU:HD22	2.18	0.43
11:H4:212:LEU:O	11:H4:214:GLN:N	2.52	0.43
11:H4:224:PHE:HB2	11:H4:228:PHE:CE2	2.53	0.43
3:HD:305:PRO:HB2	3:HD:310:TYR:HE1	1.84	0.43
2:HE:5:ILE:HD12	2:HE:64:ARG:HB3	2.00	0.43
2:HE:88:HIS:CE1	2:HE:121:ARG:HH22	2.37	0.43
2:HE:430:LYS:HA	2:HE:433:GLU:OE2	2.18	0.43
3:HF:117:LEU:HB3	3:HF:121:ARG:NH2	2.33	0.43
2:HG:188:ILE:HD12	2:HG:188:ILE:H	1.83	0.43
3:HH:20:PHE:CZ	3:HH:24:ILE:HD11	2.54	0.43
2:HI:327:ASP:OD1	2:HI:328:VAL:N	2.52	0.43
2:IE:217:LEU:HD13	2:IE:277:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:114:ASP:N	3:IF:114:ASP:OD1	2.52	0.43
3:IH:36:TYR:CZ	3:IH:38:GLY:HA2	2.54	0.43
13:J2:177:ASN:C	13:J2:180:GLU:H	2.21	0.43
3:JD:2:ARG:HG2	3:JD:131:GLN:CD	2.39	0.43
2:JE:262:TYR:CE1	3:JF:393:ALA:HA	2.54	0.43
2:JE:263:PRO:O	2:JE:264:ARG:HB2	2.19	0.43
3:JF:180:VAL:HG22	3:JF:183:TYR:HB2	2.01	0.43
2:JG:137:ILE:HB	2:JG:168:GLU:HA	2.00	0.43
2:JG:211:ASP:O	2:JG:214:ARG:HD3	2.19	0.43
3:JH:19:LYS:HA	3:JH:19:LYS:HD2	1.82	0.43
3:JH:19:LYS:HZ3	3:JH:227:HIS:HB2	1.83	0.43
3:JH:213:ARG:O	3:JH:216:LYS:HE2	2.19	0.43
14:K2:170:LYS:HE2	14:K2:170:LYS:HA	1.99	0.43
14:K3:211:ARG:HH21	14:K3:214:GLU:HG2	1.84	0.43
14:K3:382:LEU:C	2:LI:339:ARG:HE	2.22	0.43
3:KD:324:LYS:HE2	2:KE:222:PRO:HG2	2.01	0.43
2:KE:132:LEU:HD12	2:KE:132:LEU:O	2.18	0.43
2:KE:270:ALA:O	2:KE:302:MET:HE2	2.18	0.43
3:KF:1:MET:HG3	3:KF:2:ARG:N	2.34	0.43
3:KF:101:TRP:CE3	3:KF:187:LEU:HD13	2.53	0.43
3:KF:299:MET:HE3	3:KF:301:ALA:H	1.83	0.43
2:KG:245:ASP:O	2:KG:356:ASN:ND2	2.52	0.43
3:KH:255:VAL:HG12	2:KI:407:TRP:CE3	2.53	0.43
15:L2:60:LYS:HD3	15:L2:60:LYS:HA	1.85	0.43
15:L2:158:ILE:HD12	15:L2:161:ARG:CB	2.49	0.43
3:LD:2:ARG:HD3	3:LD:2:ARG:HA	1.71	0.43
3:LD:84:ILE:HD12	3:LD:84:ILE:HA	1.86	0.43
2:LE:11:GLN:NE2	25:LE:501:GTP:O3A	2.52	0.43
2:LE:114:ILE:O	2:LE:118:VAL:HG13	2.19	0.43
2:LE:208:ALA:N	2:LE:304:LYS:HZ1	2.14	0.43
2:LG:90:GLU:HG2	2:LG:121:ARG:CZ	2.49	0.43
3:LH:21:TRP:CZ2	3:LH:63:ALA:HB2	2.54	0.43
3:MF:405:GLU:O	3:MF:409:THR:HG23	2.18	0.43
2:MG:428:LEU:HA	2:MG:431:ASP:HB2	1.99	0.43
3:MH:348:ASN:OD1	3:MH:348:ASN:N	2.47	0.43
2:MI:123:ARG:NE	17:N3:72:ASP:HB3	2.34	0.43
2:MI:162:GLY:H	2:MI:163:LYS:NZ	2.17	0.43
17:N2:87:LYS:HZ3	17:N2:91:GLU:HG2	1.82	0.43
2:NE:4:CYS:SG	2:NE:133:GLN:HB2	2.59	0.43
2:NE:255:PHE:O	2:NE:259:LEU:HB2	2.19	0.43
2:NG:236:SER:HA	2:NG:243:ARG:HH22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NI:88:HIS:HB3	2:NI:91:GLN:CG	2.49	0.43
2:NI:184:PRO:O	2:NI:188:ILE:HG12	2.19	0.43
18:O1:76:PRO:HB3	18:O1:96:ILE:HG23	1.99	0.43
18:O1:94:LYS:HA	18:O1:97:HIS:CE1	2.53	0.43
18:O2:38:TYR:CZ	20:Q2:1418:MET:SD	3.12	0.43
3:OD:81:PHE:HB3	3:OD:84:ILE:HG22	1.99	0.43
2:OG:50:ASN:OD1	2:OG:51:THR:N	2.51	0.43
2:OG:217:LEU:HD13	2:OG:277:SER:HA	2.01	0.43
3:OH:41:ASP:HB2	24:YN:23:PHE:HZ	1.84	0.43
3:OH:165:ASN:OD1	3:OH:166:THR:N	2.52	0.43
3:OH:247:ASN:HB3	3:OH:252:LYS:HG2	2.01	0.43
2:OI:332:ILE:HG13	2:OI:336:LYS:HZ2	1.84	0.43
19:P1:452:LYS:HD3	19:P1:452:LYS:HA	1.78	0.43
2:PE:102:ASN:HD21	2:PE:411:GLU:HG2	1.84	0.43
2:PG:209:ILE:HG23	2:PG:230:LEU:HD21	2.01	0.43
2:PG:365:GLY:HA2	24:YK:39:LYS:HE3	2.01	0.43
3:PH:36:TYR:HH	3:PH:40:SER:H	1.67	0.43
3:PH:246:LEU:HB2	3:PH:352:ALA:HB1	2.01	0.43
3:PH:318:ARG:HG2	3:PH:356:ILE:O	2.19	0.43
2:PI:217:LEU:HD13	2:PI:277:SER:HA	1.99	0.43
2:PI:414:GLU:OE1	2:PI:415:GLU:N	2.52	0.43
20:Q2:1358:ILE:O	20:Q2:1394:PHE:N	2.51	0.43
20:Q2:1468:LEU:HD23	20:Q2:1505:ILE:N	2.34	0.43
2:QE:387:ALA:O	2:QE:391:LEU:HG	2.19	0.43
2:QG:388:TRP:HA	2:QG:391:LEU:HD12	1.99	0.43
3:QH:405:GLU:O	3:QH:409:THR:HG23	2.17	0.43
2:QI:283:HIS:HB3	24:YM:131:ARG:CZ	2.49	0.43
3:RF:198:GLU:HG2	3:RF:266:PHE:CE2	2.53	0.43
3:RF:251:ARG:NE	3:RF:255:VAL:HG13	2.34	0.43
2:RG:338:LYS:HZ2	2:RG:340:THR:N	2.11	0.43
2:RG:389:ALA:HA	2:RG:392:ASP:OD2	2.19	0.43
3:RH:40:SER:HB2	3:RH:43:GLN:HG2	2.01	0.43
2:RI:75:VAL:HA	2:RI:78:VAL:HG12	2.00	0.43
3:RJ:6:HIS:CE1	3:RJ:136:THR:HG1	2.37	0.43
2:SE:286:LEU:HD23	2:SE:286:LEU:H	1.84	0.43
2:SG:2:ARG:NH1	2:SG:249:ASN:OD1	2.52	0.43
2:SG:224:TYR:CE2	25:SG:501:GTP:C5	3.03	0.43
3:SH:198:GLU:HG2	3:SH:266:PHE:HE2	1.84	0.43
2:SI:111:GLY:HA3	2:SI:152:LEU:CD1	2.49	0.43
2:SI:327:ASP:OD1	2:SI:328:VAL:N	2.52	0.43
2:SI:363:VAL:HG12	2:SI:368:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:68:LEU:HD23	3:SJ:93:GLY:HA3	2.00	0.43
3:SJ:392:LYS:HB2	3:SJ:395:LEU:HD13	2.01	0.43
2:TG:257:THR:HA	3:TH:397:TRP:CZ2	2.54	0.43
3:TH:2:ARG:HB3	3:TH:131:GLN:NE2	2.34	0.43
3:TH:324:LYS:HD2	2:TI:221:ARG:HD3	2.00	0.43
2:TI:6:SER:HG	2:TI:8:HIS:HE2	1.64	0.43
2:TI:196:GLU:HG2	2:TI:197:HIS:CE1	2.53	0.43
2:TI:246:GLY:HA2	2:TI:357:TYR:HD2	1.83	0.43
3:TJ:134:GLN:N	3:TJ:134:GLN:OE1	2.50	0.43
3:UD:330:MET:CG	3:UD:349:VAL:HG11	2.49	0.43
2:UG:338:LYS:NZ	2:UG:340:THR:HG23	2.34	0.43
2:UG:354:GLY:O	2:UG:355:ILE:HD13	2.18	0.43
2:UG:429:GLU:HA	2:UG:432:TYR:CD2	2.53	0.43
3:UH:228:LEU:O	3:UH:232:THR:HG23	2.19	0.43
3:VD:28:HIS:HA	3:VD:43:GLN:OE1	2.19	0.43
2:VE:3:GLU:HA	2:VE:51:THR:OG1	2.18	0.43
2:VE:390:ARG:HG3	2:VE:391:LEU:N	2.33	0.43
2:VG:51:THR:O	2:VG:64:ARG:HD2	2.19	0.43
2:VG:127:ASP:OD1	2:VG:128:LEU:N	2.50	0.43
3:VH:28:HIS:CE1	3:VH:43:GLN:HB2	2.53	0.43
3:VH:41:ASP:O	3:VH:45:GLU:HG3	2.19	0.43
2:WE:9:VAL:HA	2:WE:68:VAL:CG2	2.48	0.43
2:WE:156:ARG:HA	2:WE:159:VAL:HG22	2.01	0.43
2:WG:116:ASP:HA	2:WG:119:LEU:HD12	2.01	0.43
2:WG:167:LEU:HB3	2:WG:169:PHE:CZ	2.53	0.43
2:WG:331:ALA:O	2:WG:335:ILE:HG12	2.18	0.43
2:WG:334:THR:O	2:WG:337:THR:OG1	2.23	0.43
2:WG:346:TRP:N	2:WG:346:TRP:CD1	2.86	0.43
2:WI:12:ALA:O	25:WI:501:GTP:N1	2.51	0.43
2:WI:132:LEU:HD11	23:XL:71:HIS:CD2	2.53	0.43
2:WI:227:LEU:O	2:WI:231:ILE:HG12	2.19	0.43
22:XC:155:GLN:O	22:XC:156:ILE:HD13	2.19	0.43
23:XK:55:THR:O	23:XK:58:LYS:HG2	2.18	0.43
23:XK:67:ILE:HG21	23:XK:78:ILE:HD11	2.00	0.43
23:XK:133:LEU:O	23:XK:137:ILE:HG12	2.18	0.43
23:XL:232:VAL:HB	23:XL:235:TYR:HB2	2.00	0.43
24:YI:21:GLN:O	24:YI:24:THR:OG1	2.21	0.43
24:YI:135:GLY:O	24:YI:138:VAL:HG22	2.17	0.43
24:YI:140:LEU:O	24:YI:144:VAL:HG23	2.19	0.43
24:YK:96:LEU:HA	24:YK:99:LYS:HZ2	1.82	0.43
24:YK:161:LYS:HG3	24:YK:162:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YK:162:VAL:HG22	24:YK:165:HIS:CE1	2.53	0.43
24:YL:9:ARG:HH12	24:YM:54:GLU:HG2	1.84	0.43
24:YM:116:LYS:HD2	24:YM:117:TYR:N	2.34	0.43
1:A2:172:GLU:O	1:A2:175:LEU:HD23	2.19	0.43
2:AE:103:TYR:CE1	2:AE:148:GLY:HA2	2.53	0.43
2:AE:174:ALA:HB3	2:AE:177:VAL:O	2.19	0.43
2:AE:388:TRP:HE3	2:AE:425:LEU:HD11	1.84	0.43
3:AF:184:ASN:HA	3:AF:187:LEU:HD12	2.01	0.43
3:AF:372:THR:CA	3:AF:375:GLN:HE22	2.32	0.43
2:AG:62:VAL:HG13	2:AG:88:HIS:HB2	2.01	0.43
2:AG:220:GLU:OE1	2:AG:220:GLU:N	2.46	0.43
3:AH:394:PHE:HA	3:AH:397:TRP:HZ3	1.83	0.43
4:B7:400:PRO:O	4:B7:402:GLU:HG3	2.19	0.43
3:BF:263:LEU:HD13	3:BF:422:TYR:CZ	2.53	0.43
3:BH:6:HIS:CE1	3:BH:8:GLN:HB2	2.53	0.43
2:BI:11:GLN:O	2:BI:15:GLN:HG2	2.18	0.43
5:C2:284:PHE:HZ	5:C3:397:GLN:O	2.02	0.43
5:C3:272:GLN:HA	5:C4:399:ARG:NH1	2.33	0.43
5:C3:385:ALA:O	5:C3:388:GLU:HG3	2.19	0.43
2:CG:414:GLU:N	2:CG:414:GLU:OE1	2.51	0.43
3:CH:289:LEU:O	3:CH:293:MET:CB	2.63	0.43
6:D3:422:SER:HA	6:D3:425:ILE:HD12	2.01	0.43
6:D8:360:ARG:HG2	6:D8:363:ARG:HH12	1.83	0.43
3:DD:382:SER:O	3:DD:386:THR:HG23	2.19	0.43
2:DE:5:ILE:HB	2:DE:135:PHE:HD1	1.84	0.43
3:DF:385:PHE:HA	3:DF:388:MET:HE2	2.01	0.43
2:DG:189:LEU:HA	2:DG:192:HIS:HE1	1.80	0.43
3:DH:328:GLU:OE1	3:DH:332:ASN:ND2	2.52	0.43
2:EE:406:HIS:HA	2:EE:409:VAL:HG22	2.00	0.43
3:EF:162:ARG:HD3	3:EF:162:ARG:HA	1.81	0.43
3:EF:376:GLU:HA	3:EF:379:LYS:HE3	2.00	0.43
2:EG:311:LYS:NZ	2:EG:343:PHE:O	2.42	0.43
3:EH:47:ILE:HG13	3:EH:51:TYR:HB2	2.00	0.43
3:EH:246:LEU:HB3	3:EH:353:VAL:O	2.19	0.43
8:F2:201:ARG:HH12	8:F2:207:VAL:H	1.65	0.43
8:F3:291:SER:HB3	8:F3:296:TRP:CZ2	2.54	0.43
8:F3:334:LYS:NZ	8:F3:338:ASN:HD21	2.17	0.43
8:F6:198:ARG:O	8:F6:201:ARG:HG2	2.18	0.43
8:F6:209:ASP:CG	8:F6:346:ARG:HH21	2.21	0.43
3:FD:131:GLN:HG3	3:FD:251:ARG:HH12	1.84	0.43
3:FF:233:MET:O	3:FF:236:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:324:LYS:HE2	2:FG:222:PRO:CG	2.48	0.43
3:FH:73:MET:SD	3:FH:73:MET:N	2.83	0.43
9:G1:331:VAL:O	9:G1:364:LEU:HD13	2.19	0.43
9:G1:443:PHE:CD2	9:G1:448:MET:HG3	2.54	0.43
9:G2:281:ARG:HH11	9:G2:282:ASN:H	1.65	0.43
10:G5:165:PHE:C	10:G5:166:LYS:HD3	2.39	0.43
10:G5:475:ASN:OD1	10:G5:476:ALA:N	2.47	0.43
10:G5:491:GLN:HB3	10:G5:495:LYS:CE	2.49	0.43
10:G5:509:ILE:HD12	10:G5:509:ILE:H	1.83	0.43
10:G5:597:GLN:O	10:G5:601:THR:HG23	2.19	0.43
3:GD:10:GLY:HA2	3:GD:143:THR:OG1	2.19	0.43
3:GD:266:PHE:CB	3:GD:368:ILE:HD11	2.49	0.43
3:GD:407:GLU:HG2	3:GD:408:PHE:N	2.34	0.43
2:GG:320:ARG:CZ	2:GG:360:PRO:HA	2.49	0.43
11:H4:232:MET:CG	11:H4:233:GLY:H	2.26	0.43
3:HD:282:ARG:NH2	3:HD:288:GLU:OE1	2.51	0.43
3:HD:302:ALA:HB1	3:HD:377:LEU:HD11	2.01	0.43
2:HE:288:VAL:O	2:HE:291:ILE:HG12	2.19	0.43
2:HE:402:ARG:O	2:HE:402:ARG:HG2	2.17	0.43
3:HF:305:PRO:HB3	3:HF:371:SER:OG	2.19	0.43
2:HG:195:LEU:HD21	2:HG:424:ASP:OD2	2.19	0.43
2:HG:208:ALA:H	2:HG:304:LYS:HZ1	1.67	0.43
2:HG:210:TYR:CE1	2:HG:227:LEU:HD21	2.54	0.43
3:HH:403:MET:HG2	3:HH:407:GLU:CD	2.39	0.43
2:HI:115:VAL:HA	2:HI:118:VAL:HG22	2.00	0.43
2:HI:125:LEU:O	2:HI:128:LEU:HG	2.18	0.43
2:IE:175:PRO:HD3	2:IE:205:ASP:OD2	2.19	0.43
3:IF:19:LYS:NZ	3:IF:227:HIS:HB2	2.34	0.43
3:IF:77:ARG:HA	3:IF:77:ARG:HD2	1.82	0.43
3:IF:318:ARG:HG2	3:IF:356:ILE:O	2.19	0.43
3:IF:322:SER:N	3:IF:325:GLU:OE2	2.36	0.43
2:IG:317:MET:SD	2:IG:375:VAL:HG21	2.59	0.43
3:IH:142:GLY:N	25:IH:501:GTP:O3B	2.52	0.43
2:II:12:ALA:HB1	25:II:501:GTP:C2	2.54	0.43
13:J3:53:VAL:HG12	13:J3:70:VAL:HB	1.99	0.43
3:JD:64:VAL:HG21	3:JD:120:VAL:HG12	2.00	0.43
3:JD:201:CYS:O	3:JD:301:ALA:HB1	2.19	0.43
2:JE:187:SER:O	2:JE:191:THR:HG23	2.19	0.43
2:JE:224:TYR:CE1	25:JE:501:GTP:C6	3.07	0.43
14:K2:337:ALA:O	14:K2:341:ARG:HG3	2.19	0.43
2:KG:177:VAL:HB	2:KG:207:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:322:SER:OG	3:KH:323:MET:N	2.52	0.43
2:KI:22:GLU:HG2	2:KI:83:TYR:HE2	1.84	0.43
15:L2:62:PHE:CG	15:L2:63:LEU:N	2.87	0.43
15:L2:124:ILE:HB	15:L2:133:LYS:NZ	2.34	0.43
15:L2:189:SER:OG	15:L2:192:GLU:OE1	2.34	0.43
15:L3:64:LYS:H	15:L3:68:LYS:NZ	2.16	0.43
15:L3:186:LYS:HE2	15:L3:252:ILE:O	2.18	0.43
3:LD:101:TRP:HB2	3:LD:184:ASN:ND2	2.33	0.43
2:LE:113:GLU:N	2:LE:113:GLU:OE1	2.52	0.43
2:LE:264:ARG:NH2	2:LE:431:ASP:OD2	2.46	0.43
3:LF:214:THR:OG1	3:LF:273:LEU:HB3	2.19	0.43
2:LG:185:TYR:HA	2:LG:395:PHE:HE1	1.83	0.43
3:LH:134:GLN:OE1	3:LH:134:GLN:N	2.51	0.43
3:LH:310:TYR:CD1	3:LH:371:SER:HB2	2.54	0.43
3:LH:324:LYS:O	3:LH:327:ASP:HB3	2.19	0.43
3:LH:405:GLU:O	3:LH:409:THR:HG23	2.19	0.43
2:LI:157:LEU:HD23	2:LI:157:LEU:HA	1.91	0.43
2:ME:161:TYR:HB3	2:ME:164:LYS:HZ3	1.84	0.43
3:MF:285:THR:O	3:MF:288:GLU:HG2	2.19	0.43
3:MH:52:ASN:CG	3:MH:62:ARG:HD3	2.40	0.43
2:MI:166:LYS:O	2:MI:199:ASP:HB2	2.19	0.43
3:ND:31:ASP:OD1	3:ND:35:THR:N	2.51	0.43
3:ND:390:ARG:HA	3:ND:390:ARG:HD2	1.83	0.43
2:NE:256:GLN:CD	3:NF:397:TRP:HE1	2.22	0.43
2:NE:381:THR:OG1	2:NE:382:THR:N	2.51	0.43
2:NG:50:ASN:O	2:NG:64:ARG:NH1	2.51	0.43
2:NG:55:GLU:HA	2:NG:60:LYS:O	2.19	0.43
2:NG:138:PHE:CD1	2:NG:169:PHE:HB2	2.54	0.43
3:OD:180:VAL:HG22	3:OD:183:TYR:HB2	2.00	0.43
3:OD:218:THR:OG1	3:OD:219:THR:N	2.52	0.43
3:OF:131:GLN:OE1	3:OF:131:GLN:N	2.52	0.43
3:OF:240:LEU:HD22	3:OF:248:ALA:HB1	2.01	0.43
2:OG:1:MET:N	2:OG:130:THR:OG1	2.52	0.43
2:OG:169:PHE:HD2	2:OG:202:PHE:HB2	1.84	0.43
3:OH:381:ILE:HD12	3:OH:381:ILE:HA	1.86	0.43
2:OI:392:ASP:OD1	2:OI:393:HIS:N	2.52	0.43
19:P1:275:PHE:HD2	19:P1:284:ILE:HB	1.84	0.43
19:P1:354:LYS:HZ1	19:P1:374:ASN:HA	1.78	0.43
19:P2:277:LYS:HA	19:P2:277:LYS:HD2	1.40	0.43
19:P2:372:VAL:HG12	19:P2:375:MET:HB3	2.01	0.43
2:PE:285:GLN:NE2	2:PE:286:LEU:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:331:ALA:O	2:PE:335:ILE:HG13	2.18	0.43
3:PF:19:LYS:NZ	3:PF:227:HIS:HB2	2.33	0.43
3:PF:233:MET:O	3:PF:236:VAL:HG12	2.18	0.43
2:PG:45:GLY:HA2	2:PG:49:PHE:CZ	2.54	0.43
2:PG:189:LEU:HA	2:PG:192:HIS:ND1	2.33	0.43
2:PI:6:SER:HB3	2:PI:65:ALA:HB2	2.01	0.43
20:Q2:1446:LYS:HA	20:Q2:1449:HIS:NE2	2.33	0.43
2:QE:189:LEU:HA	2:QE:192:HIS:CE1	2.53	0.43
2:QE:326:LYS:HA	2:QE:329:ASN:HD21	1.83	0.43
2:QG:88:HIS:HB3	2:QG:91:GLN:CG	2.49	0.43
2:QG:276:ILE:HD12	2:QG:276:ILE:HA	1.87	0.43
3:QH:31:ASP:OD1	3:QH:35:THR:N	2.52	0.43
3:QH:130:LEU:HB2	3:QH:162:ARG:NH1	2.33	0.43
2:RE:9:VAL:HG22	2:RE:146:GLY:HA2	2.00	0.43
2:RE:246:GLY:HA2	2:RE:357:TYR:HD1	1.83	0.43
3:RF:47:ILE:HG12	3:RF:59:TYR:CG	2.54	0.43
3:RF:204:ASN:OD1	3:RF:205:GLU:N	2.52	0.43
2:RG:6:SER:O	2:RG:65:ALA:HA	2.18	0.43
2:RG:312:TYR:HB2	2:RG:343:PHE:HA	2.01	0.43
2:RG:329:ASN:O	2:RG:332:ILE:HG12	2.19	0.43
2:RG:331:ALA:O	2:RG:334:THR:OG1	2.26	0.43
3:RH:31:ASP:OD2	3:RH:33:THR:OG1	2.37	0.43
3:RH:257:MET:HA	3:RH:312:THR:HG21	2.00	0.43
2:RI:329:ASN:CA	2:RI:332:ILE:HG12	2.41	0.43
3:RJ:178:THR:HG22	3:RJ:181:GLU:H	1.84	0.43
2:SE:118:VAL:HG11	2:SE:149:PHE:HZ	1.83	0.43
3:SF:251:ARG:NH2	2:SG:105:ARG:HH22	2.17	0.43
3:SF:335:ASN:OD1	3:SF:336:LYS:N	2.52	0.43
2:SG:135:PHE:H	2:SG:166:LYS:HA	1.83	0.43
2:SG:252:LEU:HA	2:SG:255:PHE:CD2	2.54	0.43
2:SI:137:ILE:HG22	2:SI:139:HIS:ND1	2.33	0.43
2:SI:256:GLN:O	2:SI:260:VAL:HG12	2.19	0.43
3:SJ:192:LEU:O	3:SJ:196:THR:HG22	2.19	0.43
3:TF:345:ILE:HD12	2:TG:398:MET:CE	2.49	0.43
3:TH:290:THR:O	3:TH:293:MET:HG3	2.19	0.43
3:TH:392:LYS:HD2	3:TH:392:LYS:O	2.19	0.43
3:TJ:238:THR:HA	3:TJ:241:ARG:HG2	1.99	0.43
3:UD:319:GLY:HA2	3:UD:357:PRO:HG3	2.01	0.43
2:UE:172:TYR:HD1	2:UE:203:MET:SD	2.42	0.43
3:UF:137:HIS:CD2	3:UF:168:SER:HB2	2.54	0.43
2:UG:51:THR:HG23	2:UG:52:PHE:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:155:GLU:OE2	2:UG:197:HIS:ND1	2.51	0.43
2:UG:174:ALA:HB1	2:UG:207:GLU:OE2	2.19	0.43
3:VD:17:GLY:O	3:VD:21:TRP:HD1	2.02	0.43
3:VD:20:PHE:O	3:VD:24:ILE:HG13	2.19	0.43
2:VE:315:CYS:HG	2:VE:343:PHE:HZ	1.66	0.43
3:VF:86:ARG:NE	3:VF:86:ARG:HA	2.33	0.43
3:VF:162:ARG:HA	3:VF:162:ARG:HD3	1.71	0.43
2:VG:50:ASN:OD1	2:VG:51:THR:N	2.51	0.43
2:VG:280:LYS:HD3	2:VG:283:HIS:CE1	2.54	0.43
3:VH:211:CYS:SG	3:VH:220:PRO:HG3	2.58	0.43
3:VH:386:THR:O	3:VH:390:ARG:HG2	2.19	0.43
2:WE:395:PHE:HD2	2:WE:422:ARG:NH1	2.14	0.43
3:WF:41:ASP:O	3:WF:44:LEU:HB3	2.19	0.43
3:WF:94:GLN:HG3	23:XJ:72:ASP:HB3	2.01	0.43
3:WF:293:MET:HE3	3:WF:367:PHE:HB3	2.01	0.43
2:WG:70:LEU:HG	2:WG:145:THR:HB	2.00	0.43
3:WH:391:ARG:O	3:WH:392:LYS:HG3	2.19	0.43
2:WI:90:GLU:OE1	2:WI:90:GLU:N	2.49	0.43
22:XC:90:GLU:OE1	22:XC:155:GLN:HG2	2.18	0.43
22:XE:74:PRO:O	22:XE:135:ASN:HA	2.19	0.43
22:XE:113:ARG:HE	22:XE:114:VAL:N	2.17	0.43
23:XJ:125:LYS:HE2	23:XJ:125:LYS:HB3	1.89	0.43
23:XK:119:LEU:HD23	23:XK:119:LEU:HA	1.68	0.43
24:YI:111:SER:O	24:YI:135:GLY:HA3	2.18	0.43
24:YK:4:VAL:O	24:YK:8:LEU:HD23	2.19	0.43
24:YN:46:ILE:HB	24:YN:106:GLN:NE2	2.34	0.43
1:A2:117:GLU:O	1:A2:120:GLU:HG3	2.19	0.43
1:A3:61:LYS:HE3	1:A3:61:LYS:HB2	1.81	0.43
2:AE:125:LEU:O	2:AE:128:LEU:HG	2.19	0.43
3:AF:174:LYS:HG3	3:AF:175:VAL:HG12	2.00	0.43
2:AI:122:ILE:HD12	2:AI:122:ILE:HA	1.89	0.43
4:B3:272:MET:HB3	4:B3:380:LYS:NZ	2.33	0.43
2:BE:82:THR:HA	2:BE:84:ARG:HH11	1.83	0.43
2:BE:186:ASN:OD1	2:BE:187:SER:N	2.51	0.43
3:BF:11:GLN:HE21	25:BF:501:GTP:H3'	1.84	0.43
3:BF:46:ARG:HA	3:BF:46:ARG:HD3	1.82	0.43
2:BG:83:TYR:O	2:BG:87:PHE:HD1	2.02	0.43
5:C4:387:LYS:O	5:C4:390:SER:OG	2.28	0.43
5:C8:249:SER:O	5:C8:252:HIS:HB3	2.19	0.43
5:C8:383:LYS:HE2	7:E2:21:TYR:HE2	1.83	0.43
3:CF:228:LEU:O	3:CF:232:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:320:ARG:HA	3:CF:320:ARG:NH1	2.34	0.43
3:CH:31:ASP:HB3	3:CH:37:HIS:HE2	1.84	0.43
3:CH:401:GLU:OE1	3:CH:403:MET:HG2	2.19	0.43
2:CI:1:MET:HG2	2:CI:2:ARG:N	2.30	0.43
2:CI:430:LYS:HA	2:CI:433:GLU:CD	2.39	0.43
6:D3:107:LEU:HA	6:D3:107:LEU:HD23	1.76	0.43
6:D8:376:ARG:HE	6:D8:380:GLU:HG3	1.83	0.43
3:DD:176:SER:C	3:DD:178:THR:H	2.22	0.43
2:DE:224:TYR:CE2	25:DE:501:GTP:O6	2.72	0.43
2:DG:82:THR:O	2:DG:85:GLN:NE2	2.46	0.43
3:DH:118:ASP:O	3:DH:122:LYS:HG2	2.19	0.43
3:ED:250:LEU:HD13	3:ED:253:LEU:HD12	2.01	0.43
2:EE:166:LYS:O	2:EE:199:ASP:HB2	2.19	0.43
2:EE:279:GLU:HB2	2:EE:283:HIS:HE1	1.83	0.43
3:EF:33:THR:HG22	10:G5:518:TYR:CD1	2.54	0.43
3:EF:198:GLU:HG2	3:EF:266:PHE:CE2	2.53	0.43
2:EG:9:VAL:HG21	2:EG:153:LEU:HD21	2.01	0.43
8:F3:126:ASP:OD1	8:F3:127:LYS:N	2.52	0.43
8:F7:389:LEU:CB	8:F7:423:ILE:HD12	2.49	0.43
8:F7:428:GLN:HA	8:F7:431:LYS:HG2	2.01	0.43
8:F7:444:LEU:O	8:F7:447:THR:OG1	2.29	0.43
2:FE:192:HIS:CE1	2:FE:193:THR:HG23	2.54	0.43
3:FF:6:HIS:O	3:FF:63:ALA:HA	2.19	0.43
3:FF:345:ILE:HD12	2:FG:398:MET:HE1	2.01	0.43
2:FG:14:VAL:HG21	2:FG:69:ASP:OD2	2.19	0.43
2:FG:42:ILE:HG23	2:FG:59:GLY:HA2	2.00	0.43
2:FG:111:GLY:O	2:FG:115:VAL:HG13	2.19	0.43
2:FG:389:ALA:HA	2:FG:392:ASP:OD2	2.19	0.43
3:FH:224:ASP:O	3:FH:228:LEU:HG	2.19	0.43
9:G1:162:HIS:O	9:G1:164:HIS:N	2.52	0.43
9:G1:266:TYR:CZ	9:G1:326:ALA:HB2	2.53	0.43
9:G1:424:ALA:HB2	9:G1:440:PHE:CE2	2.54	0.43
9:G2:347:CYS:SG	9:G2:352:ARG:NH2	2.92	0.43
10:G5:533:MET:HG3	10:G5:543:SER:HB3	2.01	0.43
3:GD:47:ILE:HG13	3:GD:51:TYR:HB2	2.00	0.43
3:GD:324:LYS:HE2	2:GE:222:PRO:CD	2.48	0.43
2:GE:22:GLU:HG2	2:GE:83:TYR:HE2	1.83	0.43
2:GE:265:ILE:HD13	2:GE:432:TYR:CE1	2.54	0.43
2:GE:384:ILE:HB	2:GE:388:TRP:HZ3	1.84	0.43
3:GF:11:GLN:O	3:GF:15:GLN:OE1	2.37	0.43
3:GF:251:ARG:O	3:GF:255:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:331:LEU:HD11	2:GG:176:GLN:OE1	2.19	0.43
3:GH:46:ARG:CZ	3:GH:46:ARG:HA	2.49	0.43
3:GH:69:GLU:CD	3:GH:71:GLY:H	2.22	0.43
2:GI:21:TRP:HE1	2:GI:63:PRO:HB3	1.83	0.43
2:GI:32:PRO:HA	2:GI:86:LEU:HD21	2.00	0.43
2:GI:121:ARG:HD2	2:GI:124:LYS:NZ	2.34	0.43
2:GI:142:GLY:HA2	2:GI:186:ASN:OD1	2.19	0.43
2:HG:345:ASP:N	2:HG:345:ASP:OD1	2.51	0.43
3:HH:88:ASP:OD1	3:HH:89:ASN:N	2.51	0.43
2:HI:234:ILE:O	2:HI:237:SER:OG	2.24	0.43
2:HI:272:TYR:HD2	2:HI:275:VAL:HG13	1.84	0.43
3:IF:131:GLN:O	3:IF:163:ILE:HG22	2.19	0.43
3:IF:206:ALA:O	3:IF:210:ILE:HG12	2.19	0.43
2:IG:7:ILE:HD13	2:IG:7:ILE:HA	1.84	0.43
2:IG:304:LYS:HD2	2:IG:304:LYS:H	1.84	0.43
3:IH:234:SER:O	3:IH:238:THR:HG23	2.19	0.43
2:II:184:PRO:HB2	2:II:395:PHE:CE1	2.53	0.43
2:II:362:VAL:HA	2:II:368:LEU:HD11	2.01	0.43
3:JD:70:PRO:HA	3:JD:73:MET:HE2	2.01	0.43
3:JD:206:ALA:HB1	3:JD:300:MET:HA	2.01	0.43
2:JE:186:ASN:O	2:JE:190:THR:HG23	2.19	0.43
2:JE:271:THR:OG1	2:JE:301:GLN:NE2	2.52	0.43
2:JE:318:LEU:O	2:JE:375:VAL:HA	2.18	0.43
2:JG:262:TYR:HE1	3:JH:393:ALA:HA	1.84	0.43
3:JH:198:GLU:OE2	3:JH:266:PHE:HD2	2.02	0.43
3:JH:226:ASN:HA	3:JH:229:VAL:HG22	2.00	0.43
14:K2:368:ASN:HB3	14:K2:372:TYR:CZ	2.54	0.43
14:K3:32:ALA:O	14:K3:35:LEU:HG	2.19	0.43
14:K3:108:ARG:O	14:K3:109:LEU:HB3	2.19	0.43
14:K3:136:THR:HG21	14:K3:288:THR:O	2.19	0.43
14:K3:328:ILE:HG22	14:K3:331:ARG:NH2	2.34	0.43
14:K3:363:ARG:NH2	14:K4:39:CYS:O	2.51	0.43
14:K3:366:LYS:HA	14:K3:369:GLN:OE1	2.19	0.43
3:KD:12:CYS:HB3	25:KD:501:GTP:C5'	2.47	0.43
2:KG:309:HIS:CE1	2:NG:282:TYR:CZ	3.07	0.43
2:KI:89:PRO:HB2	2:KI:90:GLU:OE1	2.19	0.43
3:LD:238:THR:HA	3:LD:241:ARG:NH1	2.34	0.43
3:LF:46:ARG:HA	3:LF:46:ARG:HD3	1.72	0.43
3:LH:313:VAL:HG23	3:LH:349:VAL:HG23	2.00	0.43
2:LI:99:ALA:HA	2:LI:105:ARG:HE	1.84	0.43
2:ME:45:GLY:HA3	2:ME:55:GLU:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:429:GLU:HA	2:ME:432:TYR:CD2	2.53	0.43
2:MG:262:TYR:OH	3:MH:391:ARG:O	2.29	0.43
2:MG:296:PHE:CE2	2:MG:312:TYR:HE2	2.37	0.43
3:MH:284:LEU:HG	3:MH:363:MET:SD	2.58	0.43
2:MI:31:GLN:O	2:MI:34:GLY:N	2.48	0.43
17:N2:96:GLN:O	17:N2:99:ILE:N	2.42	0.43
3:ND:32:PRO:O	3:ND:83:GLN:NE2	2.25	0.43
3:ND:69:GLU:O	3:ND:72:THR:OG1	2.37	0.43
3:ND:256:ASN:HB3	3:ND:350:LYS:HE2	2.01	0.43
3:ND:394:PHE:CD1	3:ND:397:TRP:HZ3	2.37	0.43
2:NE:6:SER:HB3	2:NE:65:ALA:HB2	2.00	0.43
2:NE:234:ILE:HD11	2:NE:272:TYR:HB2	2.01	0.43
2:NG:90:GLU:HG2	2:NG:121:ARG:NH2	2.34	0.43
2:NI:255:PHE:HA	2:NI:259:LEU:HD23	2.01	0.43
3:OD:305:PRO:HA	3:OD:307:HIS:CE1	2.54	0.43
3:OD:377:LEU:HD12	3:OD:377:LEU:H	1.83	0.43
3:OF:6:HIS:CD2	3:OF:134:GLN:HG2	2.40	0.43
2:OG:265:ILE:HG23	2:OG:265:ILE:O	2.19	0.43
2:OG:311:LYS:HE3	2:OG:311:LYS:HB3	1.93	0.43
3:OH:178:THR:HB	3:OH:181:GLU:HB2	2.00	0.43
3:OH:313:VAL:HB	3:OH:367:PHE:HE1	1.84	0.43
2:OI:31:GLN:OE1	2:OI:31:GLN:N	2.51	0.43
19:P1:17:GLN:HB2	19:P1:613:ARG:NE	2.34	0.43
19:P1:121:PRO:HG3	19:P1:167:SER:O	2.19	0.43
19:P1:353:LYS:HG2	19:P1:354:LYS:HE3	2.01	0.43
19:P2:17:GLN:HB3	19:P2:613:ARG:NH2	2.27	0.43
19:P2:115:GLU:N	19:P2:115:GLU:OE1	2.52	0.43
19:P2:615:LYS:O	19:P2:617:PRO:HD3	2.19	0.43
2:PE:196:GLU:HG2	2:PE:197:HIS:ND1	2.33	0.43
2:PE:332:ILE:HA	2:PE:335:ILE:HD12	2.01	0.43
2:PE:354:GLY:O	2:PE:355:ILE:HD13	2.19	0.43
3:PF:3:GLU:HG2	3:PF:130:LEU:HD23	1.99	0.43
3:PF:46:ARG:HG2	3:PF:241:ARG:O	2.19	0.43
3:PH:12:CYS:HA	25:PH:501:GTP:N2	2.34	0.43
3:PH:117:LEU:HD11	3:PH:154:LYS:HD2	2.01	0.43
2:PI:239:THR:OG1	2:PI:243:ARG:NH1	2.52	0.43
20:Q1:1417:ARG:HE	20:Q1:1455:ARG:CZ	2.32	0.43
20:Q2:1417:ARG:HG2	20:Q2:1455:ARG:HE	1.84	0.43
3:QH:207:LEU:HD12	3:QH:225:LEU:HD23	2.01	0.43
3:QH:324:LYS:O	3:QH:328:GLU:HG3	2.19	0.43
2:QI:265:ILE:HD12	2:QI:265:ILE:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QI:414:GLU:OE1	2:QI:414:GLU:N	2.52	0.43
2:RE:276:ILE:HG13	2:RE:280:LYS:HB2	2.01	0.43
3:RF:3:GLU:HG3	3:RF:62:ARG:NH1	2.34	0.43
3:RF:4:ILE:HD13	3:RF:4:ILE:HA	1.79	0.43
2:RG:85:GLN:OE1	2:RG:85:GLN:N	2.34	0.43
3:RH:144:GLY:HA2	3:RH:147:MET:HE3	2.00	0.43
2:RI:47:ASP:H	2:RI:50:ASN:HB3	1.84	0.43
2:RI:88:HIS:HE1	2:RI:90:GLU:CD	2.23	0.43
2:RI:260:VAL:HG23	2:RI:265:ILE:O	2.19	0.43
2:SE:129:CYS:HB3	2:SE:132:LEU:HB3	2.01	0.43
2:SE:201:ALA:H	2:SE:266:HIS:HD2	1.67	0.43
2:SE:401:LYS:HD2	2:SE:403:ALA:HB2	2.01	0.43
3:SF:101:TRP:CB	3:SF:184:ASN:HD22	2.31	0.43
2:SG:320:ARG:HE	2:SG:358:GLN:HG3	1.83	0.43
3:SH:130:LEU:O	3:SH:162:ARG:NH1	2.52	0.43
3:TF:8:GLN:NE2	3:TF:13:GLY:O	2.27	0.43
3:TF:11:GLN:O	3:TF:15:GLN:NE2	2.52	0.43
2:TG:88:HIS:HB3	2:TG:91:GLN:HG2	2.01	0.43
2:TG:139:HIS:HE1	2:TG:168:GLU:HB3	1.84	0.43
2:TG:175:PRO:HG2	2:TG:304:LYS:HD3	2.01	0.43
3:TH:344:TRP:HB3	2:TI:401:LYS:HE2	2.00	0.43
2:TI:21:TRP:CE3	2:TI:24:TYR:HD2	2.36	0.43
2:TI:396:ASP:OD1	2:TI:397:LEU:N	2.52	0.43
3:UD:162:ARG:HA	3:UD:162:ARG:HD3	1.94	0.43
2:UE:18:ASN:O	2:UE:22:GLU:HG3	2.19	0.43
2:UE:316:CYS:O	2:UE:377:MET:HA	2.19	0.43
3:UF:20:PHE:O	3:UF:24:ILE:HG13	2.19	0.43
3:UF:117:LEU:HD21	3:UF:154:LYS:HD2	2.00	0.43
3:UF:164:MET:SD	3:UF:164:MET:O	2.77	0.43
3:UF:217:LEU:O	3:UF:219:THR:N	2.51	0.43
2:UG:10:GLY:O	2:UG:14:VAL:HG13	2.19	0.43
3:UH:77:ARG:HA	3:UH:77:ARG:HD2	1.87	0.43
3:UH:188:SER:O	3:UH:192:LEU:HG	2.19	0.43
3:VD:233:MET:O	3:VD:237:THR:HG23	2.18	0.43
3:VD:392:LYS:HB3	3:VD:395:LEU:HD13	2.01	0.43
2:VE:259:LEU:HD11	2:VE:316:CYS:HB2	2.01	0.43
3:VF:28:HIS:HD1	3:VF:43:GLN:HB2	1.84	0.43
3:VF:167:PHE:HB2	3:VF:200:TYR:HD2	1.84	0.43
3:VF:314:ALA:HA	3:VF:350:LYS:O	2.19	0.43
2:VG:9:VAL:HG23	2:VG:68:VAL:HG23	2.01	0.43
2:VG:383:ALA:O	2:VG:386:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:17:GLY:O	3:VH:21:TRP:CD1	2.72	0.43
3:VH:156:ARG:HA	3:VH:156:ARG:HD2	1.86	0.43
3:VH:381:ILE:HD12	3:VH:384:GLN:OE1	2.19	0.43
3:WF:118:ASP:OD1	3:WF:121:ARG:NH1	2.49	0.43
3:WF:315:ALA:O	3:WF:351:THR:HA	2.19	0.43
3:WF:318:ARG:NE	3:WF:356:ILE:O	2.24	0.43
3:WH:302:ALA:HB1	3:WH:377:LEU:HD11	2.00	0.43
22:XC:124:ARG:HD3	22:XC:124:ARG:H	1.84	0.43
22:XE:39:ASP:CG	22:XE:40:ASN:N	2.72	0.43
23:XK:116:HIS:NE2	23:XK:155:VAL:HA	2.34	0.43
23:XL:127:LEU:HD12	23:XL:127:LEU:H	1.84	0.43
24:YI:4:VAL:O	24:YI:7:SER:OG	2.30	0.43
24:YL:137:VAL:HG13	24:YL:138:VAL:HG13	2.00	0.43
24:YN:158:LEU:HB3	24:YN:162:VAL:HB	2.01	0.43
1:A3:165:ARG:NH2	9:G2:199:ILE:HA	2.34	0.42
2:AE:214:ARG:CZ	2:AE:215:ARG:HG3	2.49	0.42
2:AE:326:LYS:HE2	2:AE:326:LYS:HB2	1.45	0.42
3:AF:249:ASP:OD1	3:AF:250:LEU:N	2.52	0.42
2:AG:306:ASP:HB3	2:AG:309:HIS:CE1	2.54	0.42
3:AH:176:SER:OG	3:AH:178:THR:O	2.30	0.42
2:AI:112:LYS:HE2	2:AI:112:LYS:HB2	1.89	0.42
2:AI:297:GLU:HG2	17:N3:73:PHE:CD2	2.53	0.42
4:B7:17:TRP:HH2	4:B8:271:GLU:OE2	2.02	0.42
2:BE:25:CYS:CB	2:BE:30:ILE:HB	2.47	0.42
3:BF:382:SER:HB3	3:BF:415:MET:HE3	2.01	0.42
2:BG:71:GLU:N	2:BG:71:GLU:OE1	2.52	0.42
2:BI:260:VAL:HG23	2:BI:265:ILE:O	2.19	0.42
5:C3:202:ARG:NH2	5:C3:472:LYS:HD2	2.34	0.42
5:C3:249:SER:OG	5:C3:253:GLU:OE2	2.36	0.42
3:CF:8:GLN:OE1	3:CF:8:GLN:N	2.52	0.42
2:CG:431:ASP:O	2:CG:435:VAL:HG12	2.19	0.42
3:CH:197:ASP:OD1	3:CH:198:GLU:N	2.51	0.42
3:CH:309:ARG:NH2	3:CH:426:GLN:O	2.52	0.42
3:CH:313:VAL:HG23	3:CH:349:VAL:HG23	1.99	0.42
6:D4:316:GLN:HG3	6:D4:317:LYS:HE2	2.01	0.42
6:D8:201:ILE:HB	6:D8:202:ARG:NH1	2.34	0.42
2:DE:257:THR:HA	3:DF:397:TRP:CE2	2.54	0.42
3:DH:284:LEU:HD23	3:DH:363:MET:HG2	2.00	0.42
7:E2:82:ALA:O	7:E2:85:THR:HG23	2.19	0.42
7:E2:170:LEU:HD23	7:E2:175:ARG:HB3	2.00	0.42
3:ED:113:VAL:HB	3:ED:154:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:324:LYS:HE2	2:EE:222:PRO:N	2.34	0.42
2:EE:89:PRO:HD3	2:FE:283:HIS:CE1	2.53	0.42
2:EE:90:GLU:HG2	2:EE:121:ARG:CZ	2.49	0.42
2:EG:304:LYS:HD2	2:EG:304:LYS:H	1.84	0.42
2:EG:347:CYS:HB2	2:EG:349:THR:O	2.19	0.42
8:F7:372:GLU:HA	8:F7:375:ILE:HG22	2.01	0.42
3:FD:310:TYR:CD1	3:FD:371:SER:HB2	2.52	0.42
2:FE:51:THR:HG23	2:FE:52:PHE:CD2	2.54	0.42
2:FE:119:LEU:HA	2:FE:122:ILE:HG12	2.00	0.42
2:FE:209:ILE:CG2	2:FE:227:LEU:HG	2.49	0.42
2:FE:338:LYS:HZ1	2:FE:340:THR:HG23	1.84	0.42
3:FF:344:TRP:HA	2:FG:401:LYS:NZ	2.33	0.42
3:FH:114:ASP:N	3:FH:114:ASP:OD1	2.52	0.42
9:G1:403:LYS:HD2	9:G1:403:LYS:HA	1.93	0.42
9:G1:512:VAL:O	9:G1:516:MET:HE3	2.18	0.42
9:G2:175:THR:HG23	9:G2:178:GLY:O	2.19	0.42
9:G2:309:PRO:HD2	9:G2:312:VAL:CG2	2.49	0.42
3:GF:113:VAL:HA	3:GF:116:VAL:HG22	2.00	0.42
2:GI:208:ALA:H	2:GI:304:LYS:NZ	2.17	0.42
2:GI:338:LYS:NZ	2:GI:340:THR:HG23	2.34	0.42
3:HD:324:LYS:HE2	2:HE:222:PRO:HG2	2.00	0.42
2:HE:172:TYR:CG	2:HE:173:PRO:HD2	2.53	0.42
2:HE:229:ARG:NE	2:HE:368:LEU:HD22	2.26	0.42
2:HE:330:ALA:O	2:HE:334:THR:HG23	2.18	0.42
2:HG:215:ARG:NH1	2:HG:299:ALA:HB1	2.34	0.42
3:HH:2:ARG:HG2	3:HH:131:GLN:NE2	2.33	0.42
2:HI:224:TYR:O	2:HI:228:ASN:ND2	2.51	0.42
2:IG:99:ALA:HB3	2:IG:145:THR:HA	2.01	0.42
3:IH:32:PRO:HG3	3:IH:81:PHE:CE2	2.54	0.42
3:IH:226:ASN:HA	3:IH:229:VAL:HG22	2.01	0.42
3:IH:322:SER:OG	3:IH:323:MET:N	2.51	0.42
2:II:268:PRO:HB2	2:II:378:LEU:HD11	1.99	0.42
3:JD:52:ASN:O	3:JD:59:TYR:HA	2.18	0.42
3:JD:189:VAL:HA	3:JD:192:LEU:HD12	2.01	0.42
3:JF:380:ARG:HA	3:JF:383:GLU:OE2	2.19	0.42
14:K2:185:ARG:O	14:K2:187:LYS:N	2.52	0.42
14:K2:350:MET:O	14:K2:354:LEU:HG	2.19	0.42
14:K3:475:GLU:OE1	14:K3:475:GLU:N	2.34	0.42
14:K4:15:ARG:HA	14:K4:15:ARG:CZ	2.49	0.42
14:K4:114:HIS:NE2	14:K4:118:ARG:HD3	2.34	0.42
3:KD:180:VAL:HG13	3:KD:184:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:266:PHE:CD1	3:KD:370:ASN:HB2	2.54	0.42
2:KE:71:GLU:N	2:KE:71:GLU:OE1	2.52	0.42
3:KF:285:THR:O	3:KF:288:GLU:HG3	2.19	0.42
2:KG:290:GLU:HG2	2:KG:291:ILE:N	2.34	0.42
3:KH:54:ALA:HA	3:LH:283:ALA:HB2	2.01	0.42
15:L3:223:LYS:N	15:L3:226:ARG:HH21	2.16	0.42
3:LD:42:LEU:HD12	3:LD:243:PRO:HD2	2.00	0.42
3:LD:267:MET:HE3	3:LD:305:PRO:HG3	2.01	0.42
3:LD:357:PRO:O	3:LD:359:ARG:NH2	2.52	0.42
2:LE:49:PHE:O	2:LE:52:PHE:N	2.39	0.42
3:LF:19:LYS:O	3:LF:23:VAL:HG23	2.19	0.42
3:LF:114:ASP:OD1	3:LF:114:ASP:N	2.52	0.42
3:LH:101:TRP:HB2	3:LH:184:ASN:ND2	2.31	0.42
2:LI:8:HIS:ND1	2:LI:67:PHE:CE1	2.85	0.42
2:LI:308:ARG:NH2	2:LI:340:THR:O	2.49	0.42
3:MF:350:LYS:HE3	2:MG:181:VAL:H	1.83	0.42
2:MG:196:GLU:HG2	2:MG:197:HIS:ND1	2.34	0.42
2:MG:354:GLY:O	2:MG:355:ILE:HD13	2.19	0.42
3:MH:267:MET:HG3	3:MH:301:ALA:HB3	2.01	0.42
3:MH:372:THR:HG21	3:MH:426:GLN:CB	2.49	0.42
17:N3:159:ARG:HA	17:N3:164:GLY:O	2.19	0.42
3:ND:405:GLU:O	3:ND:409:THR:HG23	2.19	0.42
2:NE:85:GLN:OE1	2:NE:85:GLN:N	2.36	0.42
2:NE:137:ILE:HG12	2:NE:154:MET:SD	2.59	0.42
3:NF:270:PHE:H	3:NF:300:MET:HE1	1.84	0.42
2:NG:139:HIS:CD2	2:NG:170:ALA:HB2	2.54	0.42
2:NG:316:CYS:HB3	2:NG:378:LEU:HB2	2.01	0.42
3:NH:293:MET:HE3	3:NH:367:PHE:HB3	2.00	0.42
3:NH:322:SER:N	3:NH:325:GLU:OE2	2.49	0.42
3:OD:118:ASP:OD1	3:OD:121:ARG:NH1	2.51	0.42
2:OE:167:LEU:HB3	2:OE:169:PHE:CZ	2.53	0.42
2:OG:25:CYS:HB2	2:OG:30:ILE:HB	2.00	0.42
3:OH:187:LEU:HD21	3:OH:408:PHE:CE1	2.54	0.42
2:OI:263:PRO:O	2:OI:264:ARG:HB2	2.18	0.42
19:P1:285:LYS:HB3	19:P1:322:PHE:CD2	2.54	0.42
19:P2:351:CYS:HB2	19:P2:377:CYS:SG	2.59	0.42
2:PG:136:LEU:HB3	2:PG:138:PHE:CE1	2.54	0.42
2:PG:324:VAL:O	2:PG:328:VAL:HG23	2.19	0.42
2:PI:23:LEU:O	2:PI:27:GLU:OE1	2.37	0.42
20:Q2:1387:ASP:HB2	20:Q2:1392:GLY:C	2.40	0.42
2:QE:150:ALA:HA	2:QE:153:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:321:GLY:HA3	2:QE:372:GLN:O	2.18	0.42
3:QH:70:PRO:O	3:QH:73:MET:HG3	2.19	0.42
3:QH:139:LEU:HD21	3:QH:171:PRO:HD2	2.00	0.42
3:QH:211:CYS:HA	3:QH:215:LEU:HD13	2.01	0.42
3:QH:211:CYS:SG	3:QH:220:PRO:HG3	2.59	0.42
2:QI:52:PHE:O	2:QI:64:ARG:N	2.52	0.42
2:QI:99:ALA:HB2	2:QI:149:PHE:HE2	1.84	0.42
2:RE:3:GLU:HB2	2:RE:51:THR:O	2.19	0.42
2:RE:21:TRP:CZ3	2:RE:52:PHE:HD2	2.30	0.42
3:RF:100:ASN:OD1	3:RF:103:LYS:N	2.40	0.42
3:RH:131:GLN:HB3	3:RH:163:ILE:HD12	2.00	0.42
3:RH:161:ASP:O	3:RH:251:ARG:NH2	2.43	0.42
2:RI:5:ILE:HB	2:RI:135:PHE:CD1	2.54	0.42
2:RI:260:VAL:O	3:RJ:397:TRP:HH2	2.02	0.42
2:RI:427:ALA:O	2:RI:430:LYS:HG2	2.18	0.42
3:RJ:374:ILE:HG22	3:RJ:378:PHE:CD2	2.54	0.42
3:SF:117:LEU:HA	3:SF:117:LEU:HD23	1.90	0.42
3:SF:332:ASN:HA	3:SF:335:ASN:HD21	1.84	0.42
3:SF:357:PRO:HB3	3:SF:362:LYS:O	2.18	0.42
2:SG:3:GLU:H	2:SG:133:GLN:NE2	2.16	0.42
2:SG:15:GLN:HG2	2:SG:16:ILE:N	2.33	0.42
2:SG:112:LYS:HE2	2:SG:112:LYS:HB2	1.84	0.42
2:SG:317:MET:N	2:SG:317:MET:SD	2.92	0.42
2:SG:433:GLU:HG2	2:SG:434:GLU:N	2.34	0.42
3:SH:324:LYS:NZ	2:SI:222:PRO:O	2.29	0.42
2:SI:24:TYR:HE1	2:SI:243:ARG:NH1	2.16	0.42
2:SI:65:ALA:C	2:SI:91:GLN:HE21	2.16	0.42
2:SI:88:HIS:CE1	2:SI:121:ARG:HH12	2.37	0.42
2:SI:246:GLY:HA2	2:SI:357:TYR:CD2	2.54	0.42
2:SI:292:THR:HA	2:SI:295:CYS:SG	2.59	0.42
3:TH:109:GLY:O	3:TH:113:VAL:HG13	2.19	0.42
3:TH:238:THR:HB	3:TH:242:PHE:CD2	2.52	0.42
2:TI:265:ILE:HB	2:TI:432:TYR:HE1	1.84	0.42
2:TI:340:THR:O	2:TI:342:GLN:HG2	2.19	0.42
3:UD:137:HIS:HE1	3:UD:166:THR:HB	1.81	0.42
3:UD:182:PRO:HB2	3:UD:388:MET:CE	2.47	0.42
3:UD:218:THR:O	3:UD:220:PRO:HD3	2.19	0.42
3:UF:350:LYS:HD3	2:UG:179:THR:O	2.18	0.42
2:UG:160:ASP:OD1	2:UG:161:TYR:N	2.52	0.42
2:UG:215:ARG:NH1	2:UG:299:ALA:O	2.39	0.42
3:UH:404:ASP:OD1	3:UH:407:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:109:GLY:O	3:VD:113:VAL:HG22	2.18	0.42
3:VD:260:PHE:HB2	3:VD:263:LEU:HD23	2.00	0.42
2:VE:15:GLN:HG2	2:VE:16:ILE:N	2.33	0.42
2:VE:210:TYR:CE1	2:VE:227:LEU:HD11	2.48	0.42
3:VF:165:ASN:HA	3:VF:198:GLU:HB3	2.00	0.42
3:VF:221:THR:OG1	3:VF:224:ASP:N	2.51	0.42
2:VG:183:GLU:O	2:VG:187:SER:OG	2.35	0.42
3:VH:8:GLN:NE2	3:VH:17:GLY:HA3	2.34	0.42
3:VH:30:ILE:HG22	3:VH:31:ASP:O	2.19	0.42
3:VH:117:LEU:HD11	3:VH:154:LYS:HD2	2.01	0.42
3:VH:403:MET:HB3	3:VH:407:GLU:OE1	2.19	0.42
3:WF:19:LYS:HZ1	3:WF:227:HIS:HB2	1.84	0.42
3:WF:36:TYR:CE2	3:WF:38:GLY:HA2	2.54	0.42
3:WF:253:LEU:O	3:WF:257:MET:HG2	2.19	0.42
3:WF:288:GLU:OE2	3:WF:289:LEU:HD12	2.19	0.42
2:WG:171:ILE:HD11	2:WG:206:ASN:H	1.83	0.42
2:WG:257:THR:HA	3:WH:397:TRP:CE2	2.55	0.42
2:WG:399:TYR:CE1	2:WG:418:PHE:HB3	2.52	0.42
2:WI:102:ASN:CG	2:WI:105:ARG:H	2.22	0.42
2:WI:172:TYR:HB2	2:WI:203:MET:CG	2.48	0.42
22:XE:79:ILE:HG22	22:XE:129:TRP:CZ3	2.54	0.42
23:XL:88:ASP:HB3	23:XL:92:TYR:CD2	2.54	0.42
23:XL:146:ARG:HE	23:XL:146:ARG:HB2	1.66	0.42
24:YJ:32:CYS:HB3	24:YJ:52:TYR:CD1	2.54	0.42
24:YJ:93:THR:O	24:YJ:97:LEU:HD23	2.19	0.42
1:A2:89:ASP:O	1:A2:93:THR:HG23	2.18	0.42
1:A3:69:GLU:HB2	4:B2:270:ARG:NH2	2.34	0.42
1:A3:240:THR:HG21	4:B2:252:ASN:OD1	2.19	0.42
3:AF:5:VAL:HB	3:AF:133:PHE:CD1	2.54	0.42
3:AF:31:ASP:OD1	3:AF:35:THR:N	2.52	0.42
3:AF:257:MET:O	3:AF:259:PRO:HD3	2.19	0.42
3:AF:259:PRO:HG2	3:AF:311:LEU:HD21	2.00	0.42
3:AF:292:GLN:O	3:AF:295:ASP:HB2	2.19	0.42
2:AG:76:ASP:HA	2:AG:79:ARG:HH11	1.82	0.42
2:AG:108:TYR:CD1	2:AG:413:MET:HE3	2.54	0.42
2:AI:8:HIS:HB3	2:AI:13:GLY:O	2.18	0.42
2:AI:414:GLU:HG2	2:AI:417:GLU:OE1	2.18	0.42
4:B2:246:ALA:HA	4:B2:249:GLN:HE21	1.84	0.42
4:B2:396:LYS:HE3	4:B2:404:PHE:CE2	2.54	0.42
4:B3:379:CYS:O	4:B3:383:THR:HG23	2.19	0.42
4:B7:250:THR:O	4:B7:254:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B8:131:ASP:OD1	4:B8:268:ARG:NH2	2.53	0.42
2:BE:48:SER:HG	2:BE:244:PHE:HE1	1.67	0.42
2:BE:88:HIS:NE2	2:BE:90:GLU:OE1	2.52	0.42
2:BE:399:TYR:CE1	2:BE:418:PHE:HB3	2.45	0.42
3:BF:173:PRO:HA	3:BF:380:ARG:NH2	2.33	0.42
3:BF:324:LYS:HB2	2:BG:210:TYR:CE1	2.54	0.42
2:BG:83:TYR:HB3	2:BG:86:LEU:HD12	2.01	0.42
2:BG:99:ALA:HB3	2:BG:145:THR:HG22	2.01	0.42
2:BG:202:PHE:HD1	2:BG:268:PRO:HD2	1.84	0.42
2:BG:211:ASP:C	2:BG:215:ARG:HE	2.22	0.42
3:BH:60:VAL:HG23	3:BH:86:ARG:HD2	2.01	0.42
3:BH:256:ASN:ND2	2:BI:180:ALA:HB1	2.34	0.42
3:BH:322:SER:HB3	3:BH:325:GLU:OE1	2.18	0.42
5:C2:106:SER:O	5:C2:109:GLU:HG3	2.19	0.42
5:C3:193:GLN:HB3	5:C3:196:ARG:HH21	1.83	0.42
5:C3:214:GLU:HG2	5:C3:215:ALA:N	2.34	0.42
5:C3:425:TYR:O	5:C3:429:GLU:OE1	2.37	0.42
2:CG:67:PHE:HB2	2:CG:92:LEU:HD13	2.00	0.42
3:CH:33:THR:HG22	10:G5:349:ARG:NH1	2.33	0.42
6:D2:88:THR:HB	6:D3:346:LYS:HE3	2.00	0.42
6:D3:165:PRO:CG	6:D3:418:VAL:HG11	2.46	0.42
6:D3:241:TYR:HB2	6:D4:354:GLN:NE2	2.34	0.42
6:D3:318:LEU:HB3	6:D3:416:ILE:HD11	2.00	0.42
6:D8:268:ALA:O	6:D8:271:GLU:HG2	2.19	0.42
6:D8:402:LEU:HA	6:D8:405:LEU:HD12	2.01	0.42
6:D8:441:LEU:HD11	8:F3:110:ARG:NH2	2.32	0.42
3:DD:106:TYR:HB2	3:DD:401:GLU:OE2	2.19	0.42
2:DE:74:VAL:O	2:DE:78:VAL:HG13	2.19	0.42
2:DE:272:TYR:HD2	2:DE:275:VAL:HG13	1.84	0.42
3:DH:41:ASP:N	3:DH:41:ASP:OD1	2.52	0.42
3:DH:276:ARG:NH1	9:G2:286:ASP:OD1	2.52	0.42
3:ED:105:HIS:O	3:ED:150:LEU:HD11	2.19	0.42
3:ED:324:LYS:NZ	2:EE:222:PRO:O	2.45	0.42
3:EF:409:THR:O	3:EF:412:GLU:HG3	2.18	0.42
2:EG:34:GLY:HA2	2:EG:86:LEU:HD11	2.00	0.42
2:EG:84:ARG:HG2	2:EG:85:GLN:N	2.34	0.42
2:EG:325:PRO:O	2:EG:329:ASN:ND2	2.53	0.42
3:EH:208:TYR:CE1	3:EH:225:LEU:HD21	2.54	0.42
3:EH:213:ARG:O	3:EH:216:LYS:HE3	2.19	0.42
8:F2:450:ARG:HH22	8:F7:401:ARG:HD2	1.84	0.42
8:F3:152:TRP:HB3	8:F3:257:LYS:HZ2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:F6:175:ARG:O	8:F6:178:GLU:HG3	2.19	0.42
2:FE:208:ALA:H	2:FE:304:LYS:HZ1	1.67	0.42
3:FH:204:ASN:HA	3:FH:207:LEU:HD12	2.01	0.42
9:G1:141:SER:HA	9:G1:216:ARG:HH12	1.84	0.42
9:G1:309:PRO:HD2	9:G1:312:VAL:HG22	2.01	0.42
9:G2:245:PHE:HB2	9:G2:264:ILE:HB	2.01	0.42
10:G5:136:ILE:HG21	10:G5:160:PHE:CD1	2.54	0.42
10:G5:361:LYS:O	10:G5:365:ARG:HG3	2.18	0.42
10:G5:657:ASP:O	10:G5:660:ARG:HG2	2.18	0.42
3:GD:271:ALA:HB1	3:GD:272:PRO:HD2	2.02	0.42
3:GD:299:MET:SD	3:GD:304:ASP:HA	2.59	0.42
2:GE:285:GLN:HE22	2:GE:287:SER:HB3	1.83	0.42
3:GF:180:VAL:HG13	3:GF:184:ASN:OD1	2.18	0.42
3:GF:392:LYS:HB2	3:GF:395:LEU:HD13	2.01	0.42
2:GG:298:PRO:HG3	2:GG:308:ARG:NH2	2.33	0.42
3:GH:211:CYS:SG	3:GH:220:PRO:HG3	2.59	0.42
11:H3:214:GLN:HB2	11:H3:244:MET:HE1	2.02	0.42
11:H3:306:ARG:HH11	11:H3:310:LYS:HD2	1.84	0.42
11:H4:23:PHE:CE2	11:H4:25:PRO:HA	2.54	0.42
3:HD:19:LYS:HZ1	3:HD:227:HIS:HB2	1.83	0.42
3:HD:173:PRO:HD2	3:HD:205:GLU:HG3	2.00	0.42
3:HD:290:THR:HG21	3:HD:329:GLN:HG3	2.00	0.42
3:HH:3:GLU:OE2	3:HH:128:ASP:N	2.53	0.42
2:HI:2:ARG:HG2	2:HI:242:LEU:HD23	1.99	0.42
2:IE:254:GLU:HA	2:IE:257:THR:OG1	2.18	0.42
2:IE:257:THR:HA	3:IF:397:TRP:CZ2	2.53	0.42
3:IH:7:LEU:HD13	3:IH:64:VAL:HB	2.02	0.42
13:J3:112:SER:OG	13:J3:113:ALA:N	2.52	0.42
2:JE:229:ARG:HE	2:JE:368:LEU:HD22	1.84	0.42
2:JE:319:TYR:HB2	2:JE:355:ILE:HD13	2.01	0.42
14:K3:488:THR:HA	14:K3:491:ARG:NH1	2.34	0.42
3:KD:253:LEU:O	3:KD:257:MET:HB2	2.19	0.42
2:KE:136:LEU:HB3	2:KE:138:PHE:CE1	2.54	0.42
2:KE:396:ASP:N	2:KE:396:ASP:OD1	2.52	0.42
2:KG:39:ASP:OD1	2:KG:39:ASP:N	2.52	0.42
3:KH:263:LEU:HD13	3:KH:422:TYR:HE1	1.84	0.42
2:KI:1:MET:O	2:KI:131:GLY:HA3	2.19	0.42
2:KI:51:THR:HG23	2:KI:52:PHE:CD2	2.54	0.42
2:KI:415:GLU:HA	2:KI:418:PHE:CD2	2.53	0.42
15:L2:81:CYS:SG	15:L2:82:SER:N	2.91	0.42
15:L2:146:ILE:HA	15:L2:151:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L2:219:ASP:O	2:VE:44:GLY:HA3	2.18	0.42
15:L3:236:GLN:NE2	15:L3:240:ASP:OD2	2.52	0.42
3:LD:270:PHE:HD2	3:LD:273:LEU:HD21	1.83	0.42
3:LF:191:GLN:H	3:LF:191:GLN:CD	2.22	0.42
3:LF:391:ARG:C	3:LF:392:LYS:HG3	2.40	0.42
2:LG:286:LEU:H	2:LG:286:LEU:HD23	1.84	0.42
2:LI:8:HIS:CD2	2:LI:138:PHE:CD2	3.07	0.42
2:LI:174:ALA:HB1	2:LI:207:GLU:OE2	2.19	0.42
2:LI:396:ASP:OD1	2:LI:397:LEU:N	2.51	0.42
3:MF:362:LYS:HA	3:MF:362:LYS:HD3	1.83	0.42
2:MG:2:ARG:NE	2:MG:242:LEU:HG	2.34	0.42
2:MG:132:LEU:HD12	2:MG:132:LEU:O	2.19	0.42
2:MG:344:VAL:HG23	2:MG:346:TRP:HB2	2.02	0.42
3:MH:41:ASP:N	3:MH:41:ASP:OD1	2.52	0.42
2:MI:90:GLU:N	2:MI:90:GLU:OE1	2.52	0.42
17:N2:73:PHE:HB2	17:N2:74:ARG:HH11	1.84	0.42
3:NF:375:GLN:HA	3:NF:378:PHE:CZ	2.53	0.42
3:NF:415:MET:O	3:NF:419:VAL:HG23	2.18	0.42
2:NG:320:ARG:NH2	2:NG:360:PRO:HA	2.34	0.42
2:NG:420:GLU:HA	2:NG:423:GLU:OE2	2.19	0.42
3:NH:51:TYR:CD1	3:NH:61:PRO:HA	2.55	0.42
3:NH:371:SER:OG	3:NH:372:THR:N	2.52	0.42
2:NI:51:THR:HG23	2:NI:52:PHE:CD2	2.54	0.42
2:NI:55:GLU:HA	2:NI:60:LYS:O	2.19	0.42
2:NI:311:LYS:NZ	2:NI:342:GLN:HB3	2.34	0.42
3:OD:239:CYS:SG	3:OD:316:VAL:HG11	2.59	0.42
2:OE:280:LYS:HA	2:OE:280:LYS:HD2	1.78	0.42
3:OF:12:CYS:HA	25:OF:501:GTP:N2	2.35	0.42
3:OF:130:LEU:HB3	3:OF:162:ARG:HH11	1.84	0.42
3:OF:263:LEU:HB3	3:OF:370:ASN:ND2	2.34	0.42
3:OF:406:MET:SD	3:OF:407:GLU:HG3	2.59	0.42
2:OG:104:ALA:O	2:OG:108:TYR:HD1	2.02	0.42
2:OG:205:ASP:O	2:OG:209:ILE:HG13	2.19	0.42
3:OH:31:ASP:OD2	3:OH:35:THR:OG1	2.33	0.42
3:OH:179:VAL:O	3:OH:182:PRO:HD2	2.19	0.42
19:P1:209:LEU:HB2	19:P1:253:VAL:O	2.19	0.42
19:P2:137:VAL:O	19:P2:150:GLY:HA2	2.19	0.42
19:P2:241:ASP:OD1	19:P2:242:THR:N	2.52	0.42
19:P2:488:TRP:HE1	19:P2:493:LEU:HA	1.84	0.42
3:PF:271:ALA:HB1	3:PF:272:PRO:CD	2.49	0.42
3:PF:324:LYS:HE2	2:PG:222:PRO:CD	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:324:LYS:HB3	2:PG:210:TYR:CE2	2.54	0.42
2:PG:2:ARG:CZ	2:PG:242:LEU:HG	2.49	0.42
2:PG:50:ASN:OD1	2:PG:51:THR:N	2.52	0.42
3:PH:31:ASP:OD2	3:PH:33:THR:OG1	2.36	0.42
2:PI:234:ILE:HD13	2:PI:234:ILE:HA	1.90	0.42
2:QE:163:LYS:HD2	2:QE:163:LYS:N	2.34	0.42
3:QF:249:ASP:O	3:QF:253:LEU:HG	2.19	0.42
3:QF:385:PHE:HZ	3:QF:408:PHE:HB3	1.84	0.42
2:QG:2:ARG:CZ	2:QG:242:LEU:HA	2.49	0.42
2:QG:54:SER:H	2:QG:62:VAL:N	2.07	0.42
2:QI:36:MET:SD	2:QI:37:PRO:HD2	2.59	0.42
2:QI:263:PRO:O	2:QI:264:ARG:HB2	2.19	0.42
2:RE:332:ILE:HD11	3:RF:175:VAL:HG21	2.00	0.42
3:RF:162:ARG:HA	3:RF:162:ARG:HD3	1.91	0.42
3:RH:86:ARG:NE	3:RH:86:ARG:HA	2.34	0.42
3:RH:157:GLU:OE1	3:RH:157:GLU:N	2.50	0.42
3:RH:218:THR:O	3:RH:220:PRO:HD3	2.19	0.42
3:RH:374:ILE:HD12	3:RH:374:ILE:H	1.84	0.42
3:RJ:101:TRP:N	3:RJ:398:TYR:OH	2.46	0.42
3:RJ:426:GLN:NE2	3:RJ:427:ASP:OD1	2.53	0.42
3:SF:86:ARG:HA	3:SF:86:ARG:CZ	2.49	0.42
2:SG:36:MET:HB3	2:SG:39:ASP:OD1	2.20	0.42
2:SG:142:GLY:HA2	2:SG:183:GLU:HG2	2.01	0.42
3:SH:36:TYR:CE2	3:SH:44:LEU:HD21	2.55	0.42
3:SH:156:ARG:HD2	3:SH:156:ARG:HA	1.80	0.42
3:SH:188:SER:OG	3:SH:189:VAL:N	2.53	0.42
3:SH:345:ILE:HG12	2:SI:181:VAL:HG11	2.01	0.42
2:SI:11:GLN:HA	2:SI:14:VAL:HG22	2.01	0.42
2:SI:211:ASP:CB	2:SI:215:ARG:HH21	2.32	0.42
2:SI:214:ARG:O	2:SI:218:ASP:HA	2.19	0.42
2:SI:234:ILE:HD11	2:SI:272:TYR:HB2	2.00	0.42
3:SJ:186:THR:HB	3:SJ:385:PHE:CZ	2.55	0.42
3:TF:379:LYS:O	3:TF:383:GLU:OE1	2.37	0.42
2:TG:166:LYS:O	2:TG:199:ASP:HB2	2.19	0.42
3:TH:35:THR:HA	3:TH:57:GLY:O	2.19	0.42
3:TJ:28:HIS:ND1	3:TJ:43:GLN:HB2	2.34	0.42
3:UD:322:SER:HB3	3:UD:325:GLU:OE1	2.18	0.42
2:UE:51:THR:HG23	2:UE:52:PHE:CD2	2.54	0.42
2:UE:246:GLY:HA3	2:UE:355:ILE:O	2.19	0.42
2:UE:408:TYR:HA	2:UE:411:GLU:HG3	2.01	0.42
2:UG:70:LEU:HA	2:UG:95:GLY:HA3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:427:ALA:O	2:UG:430:LYS:HG2	2.19	0.42
3:UH:191:GLN:HA	3:UH:194:GLU:HG2	2.02	0.42
3:VD:190:HIS:HD2	3:VD:191:GLN:HG3	1.85	0.42
3:VF:21:TRP:CZ2	3:VF:63:ALA:HB2	2.54	0.42
3:VF:330:MET:HG2	3:VF:349:VAL:HG11	2.01	0.42
3:VF:372:THR:HA	3:VF:375:GLN:HE22	1.83	0.42
2:VG:186:ASN:OD1	2:VG:187:SER:N	2.52	0.42
3:VH:164:MET:O	3:VH:164:MET:HG3	2.19	0.42
3:VH:240:LEU:HD22	3:VH:248:ALA:HB1	2.00	0.42
3:WF:249:ASP:OD1	3:WF:251:ARG:N	2.47	0.42
2:WG:220:GLU:O	2:WG:221:ARG:NE	2.52	0.42
3:WH:141:GLY:HA3	25:WH:501:GTP:O2A	2.18	0.42
22:XC:69:LEU:HG	22:XC:153:ARG:HA	2.01	0.42
23:XJ:222:GLU:N	23:XJ:222:GLU:OE1	2.52	0.42
24:YJ:131:ARG:HD2	24:YJ:131:ARG:N	2.34	0.42
24:YL:4:VAL:O	24:YL:8:LEU:HD23	2.20	0.42
1:A2:130:ASP:OD1	1:A2:132:VAL:HB	2.19	0.42
2:AE:11:GLN:HB2	2:AE:74:VAL:HG11	2.00	0.42
3:AF:130:LEU:H	3:AF:162:ARG:HH12	1.68	0.42
3:AF:228:LEU:O	3:AF:232:THR:HG23	2.19	0.42
3:AF:246:LEU:HB3	3:AF:353:VAL:H	1.84	0.42
3:AF:392:LYS:HE2	22:XC:97:LYS:CE	2.49	0.42
2:AG:89:PRO:HD2	2:BG:280:LYS:HZ3	1.84	0.42
2:AG:399:TYR:O	2:AG:402:ARG:HB3	2.19	0.42
3:AH:8:GLN:O	3:AH:65:LEU:HD12	2.19	0.42
3:AH:105:HIS:HD2	3:AH:149:THR:OG1	2.02	0.42
2:AI:269:LEU:HD23	2:AI:303:VAL:HB	2.00	0.42
4:B2:126:ILE:HD12	4:B2:126:ILE:HA	1.89	0.42
4:B2:337:GLY:O	4:B2:341:GLU:HG3	2.18	0.42
4:B8:124:ARG:HG3	4:B8:125:ASP:CG	2.40	0.42
2:BE:102:ASN:HD21	2:BE:411:GLU:HG2	1.84	0.42
2:BE:167:LEU:HD13	2:BE:200:CYS:HB2	2.01	0.42
2:BE:175:PRO:O	2:BE:390:ARG:HD3	2.20	0.42
2:BG:224:TYR:CE2	25:BG:501:GTP:C5	3.00	0.42
3:BH:141:GLY:HA3	25:BH:501:GTP:C5'	2.49	0.42
2:BI:79:ARG:HB3	11:H4:20:TYR:CE1	2.54	0.42
5:C4:439:ARG:O	5:C4:442:GLU:HG3	2.19	0.42
5:C8:177:ILE:HD13	5:C8:322:ARG:HB2	2.00	0.42
2:CG:88:HIS:HA	2:DE:283:HIS:HE1	1.84	0.42
3:CH:172:SER:OG	3:CH:205:GLU:OE2	2.33	0.42
3:CH:227:HIS:CD2	10:G5:295:PRO:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:284:LEU:HD12	3:CH:288:GLU:OE2	2.19	0.42
2:CI:119:LEU:O	2:CI:123:ARG:HG2	2.19	0.42
3:CJ:193:VAL:HG23	3:CJ:265:PHE:CE2	2.55	0.42
3:CJ:214:THR:HG23	3:CJ:215:LEU:HD12	2.01	0.42
6:D3:102:LYS:HZ1	6:D4:372:ASN:HB2	1.83	0.42
6:D8:387:SER:O	6:D8:391:LEU:HG	2.19	0.42
3:DD:180:VAL:HG21	3:DD:398:TYR:CE2	2.53	0.42
2:DE:26:LEU:HD21	2:DE:363:VAL:HA	2.01	0.42
2:DE:156:ARG:HA	2:DE:159:VAL:HG22	2.01	0.42
25:DE:501:GTP:N3	25:DE:501:GTP:O4'	2.51	0.42
3:DF:235:GLY:O	3:DF:238:THR:OG1	2.27	0.42
2:DG:2:ARG:CZ	2:DG:242:LEU:HA	2.49	0.42
2:DG:15:GLN:CG	25:DG:501:GTP:HN1	2.29	0.42
3:DH:403:MET:HG2	3:DH:404:ASP:N	2.35	0.42
7:E3:71:GLU:HG2	7:E3:78:LYS:HE3	2.01	0.42
2:EG:72:PRO:HA	2:EG:75:VAL:HG22	2.00	0.42
3:EH:3:GLU:HG2	3:EH:130:LEU:HD13	2.01	0.42
8:F2:232:LEU:HD23	8:F2:235:ARG:HH22	1.84	0.42
8:F2:316:ARG:O	8:F2:319:GLU:HG3	2.19	0.42
2:FE:280:LYS:NZ	2:FE:284:GLU:OE2	2.53	0.42
3:FF:263:LEU:HD12	3:FF:370:ASN:HD21	1.84	0.42
3:FF:289:LEU:HA	3:FF:292:GLN:HE21	1.84	0.42
2:FG:261:PRO:HA	3:FH:394:PHE:CD1	2.54	0.42
3:FH:40:SER:HB2	3:FH:43:GLN:CD	2.39	0.42
9:G2:39:VAL:HG23	9:G2:41:ARG:HH12	1.84	0.42
3:GF:1:MET:HG2	3:GF:46:ARG:CZ	2.50	0.42
3:GF:286:VAL:O	3:GF:289:LEU:HG	2.18	0.42
2:GI:15:GLN:HB2	2:GI:16:ILE:HG23	2.00	0.42
11:H3:12:PRO:CA	11:H3:43:LEU:HD22	2.49	0.42
2:HE:88:HIS:HB3	2:HE:91:GLN:CG	2.49	0.42
3:HF:142:GLY:N	25:HF:501:GTP:O3G	2.51	0.42
2:HG:160:ASP:OD1	2:HG:161:TYR:N	2.53	0.42
3:HH:11:GLN:HB3	3:HH:72:THR:HG21	2.01	0.42
3:HH:145:SER:O	3:HH:149:THR:HG23	2.19	0.42
3:HH:275:SER:N	3:HH:278:SER:OG	2.52	0.42
3:HH:337:ASN:HB2	3:HH:340:TYR:CD2	2.54	0.42
2:IE:260:VAL:HG23	2:IE:265:ILE:O	2.19	0.42
2:IG:224:TYR:CE1	25:IG:501:GTP:C5	2.99	0.42
13:J3:50:ILE:HD11	13:J3:104:HIS:CD2	2.53	0.42
13:J3:152:LEU:O	13:J3:156:GLU:OE1	2.37	0.42
2:JE:12:ALA:HB1	25:JE:501:GTP:N3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:165:SER:CB	2:JE:252:LEU:HD13	2.50	0.42
3:JF:12:CYS:HB3	25:JF:501:GTP:H5'	2.01	0.42
3:JH:124:ALA:HA	3:JH:127:CYS:SG	2.59	0.42
3:JH:190:HIS:ND1	3:JH:411:ALA:HA	2.35	0.42
14:K2:170:LYS:HZ2	14:K2:474:TYR:HA	1.84	0.42
14:K2:403:ARG:NE	16:M2:59:PRO:HB3	2.35	0.42
14:K3:108:ARG:HA	14:K3:108:ARG:HD3	1.67	0.42
2:KE:262:TYR:CE1	3:KF:393:ALA:HA	2.34	0.42
2:KE:287:SER:N	2:KE:290:GLU:OE2	2.52	0.42
2:KE:387:ALA:O	2:KE:390:ARG:HB3	2.19	0.42
3:KF:132:GLY:HA2	3:KF:162:ARG:HB3	2.01	0.42
3:KF:346:PRO:HG2	2:KG:394:LYS:HZ2	1.84	0.42
2:KG:338:LYS:HA	2:KG:338:LYS:HD2	1.87	0.42
3:KH:39:ASP:OD1	3:KH:40:SER:N	2.52	0.42
15:L2:65:LYS:HA	15:L2:65:LYS:HD3	1.78	0.42
3:LD:390:ARG:HD2	3:LD:390:ARG:HA	1.89	0.42
2:LE:325:PRO:HA	2:LE:328:VAL:HB	2.02	0.42
3:LF:84:ILE:HG23	3:LF:85:PHE:CD1	2.55	0.42
3:LF:427:ASP:OD2	16:M2:67:ARG:NH2	2.52	0.42
2:LG:183:GLU:HA	2:LG:186:ASN:OD1	2.19	0.42
2:LG:387:ALA:O	2:LG:391:LEU:HG	2.19	0.42
2:LI:256:GLN:O	2:LI:260:VAL:HG12	2.19	0.42
2:ME:124:LYS:HD2	2:ME:125:LEU:HD22	2.01	0.42
2:MG:184:PRO:O	2:MG:188:ILE:HG12	2.19	0.42
2:MG:205:ASP:OD2	2:MG:207:GLU:HB2	2.18	0.42
3:MH:154:LYS:HB2	3:MH:154:LYS:HE2	1.83	0.42
3:MH:198:GLU:HA	3:MH:266:PHE:HE2	1.85	0.42
3:MH:251:ARG:O	3:MH:255:VAL:HG22	2.18	0.42
2:MI:47:ASP:H	2:MI:50:ASN:HB3	1.84	0.42
17:N2:77:THR:C	17:N2:79:TYR:H	2.22	0.42
3:ND:405:GLU:H	3:ND:405:GLU:CD	2.22	0.42
3:NF:60:VAL:HG23	3:NF:86:ARG:HH11	1.84	0.42
3:NF:215:LEU:HB3	3:NF:217:LEU:HG	2.00	0.42
3:NF:423:GLN:O	3:NF:426:GLN:NE2	2.52	0.42
2:NG:127:ASP:OD1	2:NG:128:LEU:N	2.52	0.42
3:NH:154:LYS:HE2	3:NH:154:LYS:HB2	1.86	0.42
3:NH:246:LEU:HB3	3:NH:353:VAL:C	2.39	0.42
2:NI:288:VAL:O	2:NI:292:THR:OG1	2.26	0.42
3:OD:162:ARG:HD3	3:OD:251:ARG:NH2	2.34	0.42
2:OE:90:GLU:HG2	2:OE:121:ARG:NH2	2.34	0.42
2:OE:91:GLN:HG3	2:OE:121:ARG:HH21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:185:TYR:O	2:OE:189:LEU:HG	2.19	0.42
3:OF:40:SER:HB3	3:OF:42:LEU:CD2	2.49	0.42
2:OG:42:ILE:CG2	2:OG:59:GLY:HA2	2.48	0.42
3:OH:267:MET:HA	3:OH:268:PRO:HD3	1.88	0.42
2:OI:125:LEU:O	2:OI:128:LEU:HG	2.20	0.42
19:P1:503:THR:HB	19:P1:523:ASP:HB3	1.99	0.42
2:PE:393:HIS:HA	2:PE:396:ASP:OD2	2.18	0.42
3:PF:130:LEU:HD13	3:PF:133:PHE:CE2	2.54	0.42
3:PF:199:THR:HB	3:PF:265:PHE:CD1	2.54	0.42
2:PG:30:ILE:HD13	2:PG:36:MET:HE3	2.02	0.42
2:PG:188:ILE:HD13	2:PG:425:LEU:HD22	2.02	0.42
3:PH:390:ARG:HA	3:PH:390:ARG:HD2	1.78	0.42
2:PI:105:ARG:HE	2:PI:109:THR:HG21	1.84	0.42
2:PI:127:ASP:OD1	2:PI:128:LEU:N	2.52	0.42
2:PI:140:SER:HB2	2:PI:171:ILE:HG22	2.00	0.42
2:PI:173:PRO:HG3	2:PI:183:GLU:OE2	2.18	0.42
2:PI:207:GLU:HB2	2:PI:304:LYS:NZ	2.34	0.42
20:Q2:1350:LYS:HD2	20:Q2:1350:LYS:HA	1.77	0.42
20:Q2:1382:LEU:HD22	20:Q2:1386:TYR:CE2	2.53	0.42
20:Q2:1442:ARG:O	20:Q2:1442:ARG:CZ	2.68	0.42
3:QF:243:PRO:HG2	3:QF:356:ILE:HD11	2.02	0.42
2:QG:255:PHE:O	2:QG:259:LEU:HD23	2.19	0.42
2:QG:338:LYS:NZ	2:QG:340:THR:HG23	2.35	0.42
3:QH:35:THR:OG1	3:QH:35:THR:O	2.36	0.42
3:QH:157:GLU:HG2	3:QH:158:GLU:N	2.34	0.42
2:QI:297:GLU:CD	2:QI:299:ALA:H	2.23	0.42
2:RE:319:TYR:CD2	2:RE:375:VAL:HB	2.54	0.42
2:RE:325:PRO:HA	2:RE:328:VAL:HB	2.01	0.42
3:RF:41:ASP:HA	3:RF:44:LEU:HB3	2.01	0.42
3:RF:150:LEU:O	3:RF:154:LYS:HG2	2.18	0.42
3:RF:350:LYS:HE3	2:RG:181:VAL:HG22	2.01	0.42
3:RH:83:GLN:OE1	3:RH:83:GLN:N	2.43	0.42
2:RI:16:ILE:HG13	2:RI:17:GLY:N	2.34	0.42
2:RI:89:PRO:HD2	2:SI:280:LYS:NZ	2.33	0.42
2:RI:91:GLN:NE2	2:RI:125:LEU:HD21	2.32	0.42
2:RI:345:ASP:N	2:RI:345:ASP:OD1	2.51	0.42
3:RJ:211:CYS:SG	3:RJ:220:PRO:HG3	2.60	0.42
2:SE:27:GLU:CD	2:SE:28:HIS:HD1	2.22	0.42
2:SE:90:GLU:OE1	2:SE:90:GLU:N	2.51	0.42
3:SH:238:THR:HB	3:SH:242:PHE:HD2	1.84	0.42
2:SI:15:GLN:HG2	2:SI:16:ILE:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:246:GLY:HA2	2:SI:357:TYR:HD2	1.84	0.42
3:TF:40:SER:O	3:TF:43:GLN:HG2	2.19	0.42
3:TF:125:GLU:OE2	3:UD:291:GLN:HG3	2.20	0.42
3:TF:349:VAL:O	3:TF:350:LYS:HD3	2.19	0.42
3:TH:130:LEU:HB3	3:TH:162:ARG:HH11	1.83	0.42
3:TH:314:ALA:HA	3:TH:350:LYS:O	2.20	0.42
3:TH:391:ARG:HA	3:TH:391:ARG:HD3	1.90	0.42
2:TI:42:ILE:HG23	2:TI:55:GLU:CD	2.40	0.42
2:TI:89:PRO:HD3	2:UG:283:HIS:NE2	2.34	0.42
2:UE:172:TYR:OH	2:UE:387:ALA:HB1	2.18	0.42
2:UE:345:ASP:N	2:UE:345:ASP:OD1	2.52	0.42
2:UE:420:GLU:HA	2:UE:423:GLU:CD	2.40	0.42
3:UF:39:ASP:OD1	3:UF:39:ASP:N	2.52	0.42
3:UF:134:GLN:OE1	3:UF:134:GLN:N	2.51	0.42
3:UF:144:GLY:H	25:UF:501:GTP:PB	2.40	0.42
3:UF:167:PHE:HD2	3:UF:200:TYR:HD2	1.67	0.42
3:UF:218:THR:OG1	3:UF:219:THR:N	2.52	0.42
3:UH:233:MET:HA	3:UH:236:VAL:HG12	2.01	0.42
2:VE:24:TYR:HA	2:VE:27:GLU:CD	2.40	0.42
2:VE:70:LEU:HB3	2:VE:97:GLU:O	2.18	0.42
2:VE:312:TYR:HB2	2:VE:343:PHE:HA	2.00	0.42
3:VF:8:GLN:HB3	3:VF:65:LEU:HA	2.01	0.42
3:VF:85:PHE:HB3	3:VF:90:PHE:CZ	2.55	0.42
3:VF:124:ALA:HA	3:VF:127:CYS:SG	2.60	0.42
3:VF:323:MET:SD	3:VF:323:MET:N	2.92	0.42
3:VF:396:HIS:O	3:VF:399:THR:OG1	2.24	0.42
2:VG:151:SER:O	2:VG:154:MET:HG3	2.19	0.42
2:WE:280:LYS:HD2	2:WE:283:HIS:HE1	1.82	0.42
2:WE:429:GLU:O	2:WE:433:GLU:OE1	2.37	0.42
3:WF:11:GLN:HE21	25:WF:501:GTP:H3'	1.84	0.42
2:WG:82:THR:O	2:WG:85:GLN:NE2	2.42	0.42
3:WH:77:ARG:HA	3:WH:77:ARG:HD2	1.89	0.42
3:WH:203:ASP:O	3:WH:207:LEU:HG	2.18	0.42
2:WI:8:HIS:HE1	2:WI:65:ALA:HB1	1.82	0.42
2:WI:247:ALA:HB3	2:WI:355:ILE:HB	2.01	0.42
22:XC:85:LYS:HB3	22:XC:159:ASN:HB3	2.00	0.42
22:XE:77:VAL:HB	22:XE:166:TYR:CZ	2.55	0.42
22:XE:97:LYS:O	22:XE:98:ASN:HB2	2.19	0.42
23:XJ:206:GLY:HA2	23:XJ:209:ILE:HD12	2.02	0.42
24:YI:154:HIS:CD2	24:YI:158:LEU:HD23	2.55	0.42
24:YJ:105:SER:HB3	24:YJ:108:ASN:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YK:65:ILE:HA	24:YK:68:MET:CE	2.50	0.42
2:AE:311:LYS:N	2:AE:382:THR:OG1	2.52	0.42
3:AF:15:GLN:CG	25:AF:501:GTP:C2	2.99	0.42
3:AF:406:MET:O	3:AF:410:GLU:OE1	2.37	0.42
2:AG:113:GLU:N	2:AG:113:GLU:OE1	2.52	0.42
2:AG:319:TYR:CE2	2:AG:328:VAL:HG22	2.54	0.42
3:AH:30:ILE:HG22	3:AH:31:ASP:O	2.19	0.42
3:AH:40:SER:HB2	3:AH:43:GLN:CD	2.40	0.42
2:AI:25:CYS:HB2	2:AI:30:ILE:HB	2.02	0.42
2:AI:88:HIS:CE1	2:AI:121:ARG:HH12	2.37	0.42
2:AI:429:GLU:O	2:AI:432:TYR:N	2.52	0.42
4:B2:272:MET:HA	4:B2:272:MET:HE2	2.00	0.42
4:B2:307:LYS:NZ	4:B2:352:MET:HB2	2.33	0.42
4:B7:133:VAL:HG23	4:B7:268:ARG:NH1	2.33	0.42
4:B7:297:ILE:HA	4:B7:300:LEU:HD12	2.02	0.42
4:B8:344:GLN:O	4:B8:348:THR:HG23	2.19	0.42
2:BE:13:GLY:O	2:BE:16:ILE:HG12	2.19	0.42
2:BE:236:SER:O	2:BE:243:ARG:NH2	2.52	0.42
2:BE:352:LYS:HD3	3:BF:178:THR:HA	2.02	0.42
3:BF:240:LEU:HD13	3:BF:248:ALA:HB1	2.01	0.42
2:BG:115:VAL:HA	2:BG:118:VAL:HG22	2.01	0.42
2:BG:240:ALA:HB1	2:BG:356:ASN:ND2	2.34	0.42
3:BH:258:VAL:HA	3:BH:259:PRO:HD3	1.89	0.42
3:BH:276:ARG:HD3	10:G5:126:PRO:CD	2.49	0.42
2:BI:319:TYR:HE2	2:BI:328:VAL:HG22	1.84	0.42
2:BI:351:PHE:O	2:BI:352:LYS:HD2	2.19	0.42
5:C2:130:ASP:O	5:C2:133:GLN:HG3	2.19	0.42
5:C3:202:ARG:CZ	5:C3:472:LYS:HD2	2.50	0.42
5:C3:395:VAL:O	5:C3:398:THR:OG1	2.28	0.42
5:C8:177:ILE:HD11	5:C8:322:ARG:HE	1.85	0.42
5:C8:194:VAL:O	5:C8:197:GLU:HG3	2.20	0.42
3:CF:21:TRP:CH2	3:CF:61:PRO:HB3	2.55	0.42
3:CF:375:GLN:HG3	3:CF:378:PHE:HZ	1.84	0.42
2:CG:90:GLU:HG2	2:CG:121:ARG:NH2	2.35	0.42
2:CG:215:ARG:NH1	2:CG:299:ALA:O	2.34	0.42
2:CG:297:GLU:HG2	2:CG:298:PRO:HD2	2.02	0.42
3:CH:172:SER:HB3	3:CH:176:SER:HA	2.00	0.42
3:CH:249:ASP:O	3:CH:252:LYS:HB3	2.19	0.42
2:CI:397:LEU:C	2:CI:401:LYS:HZ1	2.21	0.42
6:D3:300:VAL:HG11	6:D3:434:ARG:HH12	1.84	0.42
6:D7:354:GLN:HG2	6:D8:241:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:166:THR:O	3:DD:199:THR:HA	2.19	0.42
2:DG:114:ILE:O	2:DG:118:VAL:HG13	2.20	0.42
2:DG:352:LYS:HE3	3:DH:179:VAL:HG11	2.00	0.42
2:EE:377:MET:HE2	2:EE:379:SER:HB3	2.00	0.42
3:EF:218:THR:OG1	3:EF:219:THR:N	2.52	0.42
2:EG:392:ASP:OD1	2:EG:393:HIS:N	2.52	0.42
3:EH:269:GLY:N	3:EH:367:PHE:O	2.53	0.42
3:EH:284:LEU:HA	3:EH:288:GLU:OE2	2.19	0.42
8:F3:314:SER:O	8:F3:317:LEU:HG	2.19	0.42
3:FD:294:PHE:CG	3:FD:294:PHE:O	2.72	0.42
2:FE:328:VAL:O	2:FE:332:ILE:HG12	2.19	0.42
2:FE:370:LYS:CD	10:G5:709:ALA:HA	2.45	0.42
2:FG:226:ASN:O	2:FG:230:LEU:HG	2.19	0.42
9:G1:245:PHE:HE2	9:G1:329:PHE:HB3	1.84	0.42
9:G2:266:TYR:OH	9:G2:271:ASP:OD1	2.15	0.42
10:G5:12:ASN:O	10:G5:14:ASN:N	2.50	0.42
10:G5:217:ASP:OD1	10:G5:218:THR:N	2.53	0.42
10:G5:307:TYR:CE1	10:G5:317:GLY:HA3	2.54	0.42
2:GE:207:GLU:HB2	2:GE:304:LYS:HZ1	1.85	0.42
3:GF:69:GLU:OE1	3:GF:72:THR:HG23	2.19	0.42
3:GF:210:ILE:HD12	3:GF:210:ILE:HA	1.92	0.42
3:GF:267:MET:HG3	3:GF:301:ALA:HB3	2.01	0.42
3:GH:5:VAL:HB	3:GH:133:PHE:CE1	2.55	0.42
3:GH:372:THR:HB	3:GH:375:GLN:NE2	2.32	0.42
11:H4:37:ARG:NE	11:H4:37:ARG:HA	2.34	0.42
2:HE:287:SER:N	2:HE:290:GLU:OE2	2.52	0.42
3:HF:117:LEU:HA	3:HF:120:VAL:HG22	2.01	0.42
3:HF:192:LEU:O	3:HF:196:THR:HG22	2.19	0.42
3:HF:379:LYS:O	3:HF:383:GLU:OE1	2.37	0.42
2:HG:89:PRO:HD2	2:IG:283:HIS:NE2	2.33	0.42
2:HG:141:PHE:C	2:HG:143:GLY:H	2.22	0.42
2:HI:1:MET:O	2:HI:131:GLY:HA3	2.18	0.42
2:HI:319:TYR:HB2	2:HI:355:ILE:HG22	2.01	0.42
2:IE:211:ASP:HA	2:IE:214:ARG:NE	2.35	0.42
2:IE:326:LYS:HZ1	3:IF:208:TYR:HA	1.85	0.42
3:IF:113:VAL:HA	3:IF:116:VAL:HG22	2.02	0.42
2:IG:276:ILE:HD12	2:IG:276:ILE:HA	1.89	0.42
2:II:8:HIS:ND1	2:II:138:PHE:HD2	2.17	0.42
13:J2:177:ASN:HA	13:J2:180:GLU:HB3	2.00	0.42
3:JD:19:LYS:NZ	3:JD:227:HIS:HB2	2.33	0.42
3:JD:224:ASP:O	3:JD:228:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:297:GLU:OE1	2:JE:300:ASN:N	2.53	0.42
2:JG:36:MET:HG3	2:JG:41:THR:HG21	2.01	0.42
2:JG:263:PRO:O	2:JG:264:ARG:HB2	2.18	0.42
3:JH:180:VAL:HG22	3:JH:183:TYR:HB2	2.02	0.42
3:JH:406:MET:SD	3:JH:407:GLU:N	2.92	0.42
2:KE:298:PRO:HG3	2:KE:308:ARG:NH1	2.34	0.42
3:KF:371:SER:OG	3:KF:372:THR:N	2.52	0.42
2:KG:88:HIS:CE1	2:LG:280:LYS:HZ1	2.37	0.42
3:KH:174:LYS:HG2	3:KH:205:GLU:OE2	2.19	0.42
3:KH:324:LYS:HD2	2:KI:221:ARG:HA	2.00	0.42
2:KI:185:TYR:O	2:KI:188:ILE:HG22	2.19	0.42
15:L3:21:PRO:HA	15:L3:22:PRO:HD3	1.88	0.42
3:LD:217:LEU:O	3:LD:219:THR:N	2.53	0.42
3:LD:344:TRP:CE2	2:LE:401:LYS:HD3	2.53	0.42
3:LD:355:ASP:N	3:LD:355:ASP:OD1	2.44	0.42
2:LG:67:PHE:HB2	2:LG:92:LEU:HD13	2.01	0.42
3:LH:5:VAL:HB	3:LH:133:PHE:HD1	1.84	0.42
3:LH:247:ASN:HB3	3:LH:252:LYS:CD	2.49	0.42
2:LI:121:ARG:O	2:LI:124:LYS:HG2	2.19	0.42
16:M3:60:TRP:CE2	16:M3:61:LYS:HG3	2.54	0.42
2:ME:176:GLN:NE2	2:ME:177:VAL:HG23	2.34	0.42
2:ME:317:MET:HB3	2:ME:319:TYR:HE1	1.85	0.42
2:ME:338:LYS:HZ2	2:ME:339:ARG:H	1.68	0.42
3:MF:379:LYS:O	3:MF:382:SER:OG	2.26	0.42
2:MG:372:GLN:HB3	2:MG:373:ARG:HH11	1.85	0.42
2:MG:389:ALA:HA	2:MG:392:ASP:OD2	2.18	0.42
2:MI:210:TYR:CE1	2:MI:227:LEU:HD21	2.55	0.42
2:MI:256:GLN:O	2:MI:260:VAL:HG12	2.18	0.42
3:ND:139:LEU:HD21	3:ND:170:VAL:HG13	2.01	0.42
2:NE:42:ILE:HG12	2:NE:55:GLU:OE2	2.19	0.42
2:NE:425:LEU:HA	2:NE:428:LEU:HD12	2.01	0.42
2:NI:30:ILE:HA	2:NI:36:MET:CE	2.50	0.42
2:NI:215:ARG:NH1	2:NI:299:ALA:HB1	2.34	0.42
3:OD:68:LEU:HB3	3:OD:95:SER:O	2.18	0.42
3:OD:313:VAL:O	3:OD:349:VAL:HA	2.20	0.42
2:OE:51:THR:O	2:OE:64:ARG:HD2	2.19	0.42
2:OE:204:VAL:HG12	2:OE:205:ASP:N	2.35	0.42
2:OE:314:ALA:O	2:OE:379:SER:HA	2.20	0.42
3:OF:137:HIS:NE2	3:OF:168:SER:HB2	2.34	0.42
3:OF:311:LEU:HD23	3:OF:342:VAL:HG21	2.00	0.42
2:OI:156:ARG:HA	2:OI:159:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:P1:208:VAL:HG22	19:P1:224:THR:HG22	2.02	0.42
19:P1:213:MET:SD	19:P1:220:PHE:HB3	2.60	0.42
19:P1:360:HIS:HB2	19:P1:367:LEU:HD11	2.01	0.42
19:P1:549:ASN:OD1	19:P1:565:HIS:CE1	2.72	0.42
2:PE:105:ARG:HG2	2:PE:109:THR:HG21	2.02	0.42
2:PE:253:THR:O	2:PE:257:THR:HG23	2.19	0.42
3:PF:192:LEU:O	3:PF:196:THR:HG22	2.19	0.42
3:PF:260:PHE:HB3	3:PF:262:ARG:NH2	2.34	0.42
3:PF:286:VAL:O	3:PF:290:THR:HG23	2.19	0.42
3:PF:287:PRO:O	3:PF:290:THR:OG1	2.28	0.42
2:PG:165:SER:CB	2:PG:252:LEU:HD13	2.48	0.42
2:PG:229:ARG:NH1	2:PG:365:GLY:O	2.52	0.42
3:PH:182:PRO:HB2	3:PH:388:MET:CE	2.49	0.42
20:Q2:1366:LEU:HA	20:Q2:1369:LYS:HZ3	1.83	0.42
2:QE:24:TYR:CE2	2:QE:52:PHE:HE2	2.37	0.42
2:QE:332:ILE:HG13	2:QE:336:LYS:NZ	2.35	0.42
2:QE:338:LYS:HZ2	2:QE:340:THR:N	2.13	0.42
3:QF:3:GLU:OE2	3:QF:127:CYS:HB3	2.19	0.42
2:QG:255:PHE:HZ	2:QG:378:LEU:HG	1.84	0.42
3:QH:162:ARG:HA	3:QH:251:ARG:HH21	1.84	0.42
2:QI:212:ILE:HG13	2:QI:215:ARG:NH2	2.34	0.42
2:RE:119:LEU:O	2:RE:123:ARG:HG2	2.20	0.42
3:RF:236:VAL:HG23	3:RF:237:THR:HG23	2.02	0.42
2:RG:234:ILE:O	2:RG:238:ILE:HG23	2.20	0.42
2:RG:280:LYS:HA	2:RG:280:LYS:HD2	1.79	0.42
2:RG:348:PRO:HG2	3:RH:384:GLN:OE1	2.19	0.42
3:RH:164:MET:N	3:RH:197:ASP:OD2	2.42	0.42
3:RH:275:SER:O	3:RH:279:GLN:NE2	2.52	0.42
2:RI:322:ASP:OD1	2:RI:322:ASP:N	2.52	0.42
3:RJ:267:MET:HG3	3:RJ:369:GLY:O	2.19	0.42
3:SF:150:LEU:C	3:SF:154:LYS:HZ3	2.23	0.42
3:SF:156:ARG:HD3	3:SF:164:MET:SD	2.59	0.42
3:SF:198:GLU:OE2	3:SF:266:PHE:HD2	2.03	0.42
2:SG:137:ILE:HG22	2:SG:139:HIS:ND1	2.35	0.42
2:SG:326:LYS:HE3	3:SH:220:PRO:HD2	2.00	0.42
2:SG:329:ASN:OD1	2:SG:330:ALA:N	2.52	0.42
3:SH:302:ALA:HB1	3:SH:377:LEU:HD11	2.01	0.42
2:SI:88:HIS:HE1	2:SI:90:GLU:CG	2.30	0.42
2:SI:288:VAL:HA	2:SI:291:ILE:HG12	2.01	0.42
3:SJ:49:VAL:HG21	3:SJ:240:LEU:HD11	2.00	0.42
3:SJ:230:SER:HA	3:SJ:233:MET:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:242:PHE:CD1	3:SJ:356:ILE:HG21	2.55	0.42
3:SJ:258:VAL:O	3:SJ:258:VAL:HG13	2.19	0.42
3:TF:42:LEU:HD12	3:TF:243:PRO:HD2	2.01	0.42
3:TF:419:VAL:CG1	3:TF:423:GLN:HE22	2.32	0.42
2:TG:3:GLU:N	2:TG:133:GLN:OE1	2.53	0.42
3:TH:198:GLU:HG2	3:TH:266:PHE:CE2	2.54	0.42
3:TH:271:ALA:HB2	3:TH:318:ARG:NH2	2.35	0.42
2:TI:202:PHE:CD1	2:TI:268:PRO:HD2	2.54	0.42
2:UE:3:GLU:H	2:UE:133:GLN:HE22	1.66	0.42
2:UE:271:THR:HB	2:UE:377:MET:HB2	2.01	0.42
2:UG:381:THR:O	2:UG:384:ILE:HG12	2.18	0.42
3:UH:11:GLN:HE21	25:UH:501:GTP:C3'	2.29	0.42
3:UH:165:ASN:HA	3:UH:198:GLU:HB3	2.02	0.42
3:UH:192:LEU:O	3:UH:196:THR:HG22	2.19	0.42
3:VD:97:ALA:HB3	3:VD:143:THR:HG22	2.02	0.42
2:VE:263:PRO:HD3	3:VF:396:HIS:HD2	1.81	0.42
3:VF:51:TYR:CD1	3:VF:61:PRO:HA	2.55	0.42
3:VF:279:GLN:HG2	3:VF:280:GLN:N	2.33	0.42
2:VG:93:ILE:HG13	2:VG:118:VAL:HG12	2.02	0.42
2:VG:265:ILE:O	2:VG:265:ILE:HG23	2.19	0.42
2:WE:140:SER:HA	2:WE:170:ALA:HB1	2.00	0.42
2:WG:370:LYS:O	2:WG:372:GLN:OE1	2.37	0.42
3:WH:51:TYR:CZ	3:WH:61:PRO:HG3	2.53	0.42
2:WI:3:GLU:N	2:WI:133:GLN:OE1	2.52	0.42
2:WI:260:VAL:O	2:WI:260:VAL:HG13	2.20	0.42
22:XD:68:THR:OG1	22:XD:69:LEU:N	2.52	0.42
23:XJ:149:ILE:O	23:XJ:152:THR:OG1	2.31	0.42
23:XJ:180:ILE:HG12	23:XJ:184:PHE:CZ	2.55	0.42
24:YI:116:LYS:C	24:YI:119:HIS:HD1	2.18	0.42
24:YK:78:LYS:HA	24:YK:81:GLN:OE1	2.20	0.42
24:YK:92:VAL:HG21	24:YK:154:HIS:CD2	2.55	0.42
24:YL:81:GLN:HA	24:YL:84:GLU:CD	2.39	0.42
1:A2:136:LEU:HD21	1:A2:264:PHE:HZ	1.83	0.42
1:A2:317:LEU:HD21	1:A2:337:LEU:HB3	2.02	0.42
2:AE:25:CYS:HB2	2:AE:30:ILE:HB	2.01	0.42
2:AE:208:ALA:HB2	2:AE:304:LYS:HZ2	1.85	0.42
2:AG:262:TYR:CE1	3:AH:393:ALA:HA	2.54	0.42
3:AH:188:SER:O	3:AH:192:LEU:HD23	2.20	0.42
2:AI:167:LEU:HD12	2:AI:202:PHE:HE1	1.84	0.42
2:AI:402:ARG:HB3	2:AI:405:VAL:HG21	2.00	0.42
4:B7:265:PHE:CE2	4:B7:391:MET:HB2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:252:LEU:HA	2:BE:255:PHE:HD2	1.85	0.42
2:BG:138:PHE:CE1	2:BG:169:PHE:HB2	2.53	0.42
3:BH:4:ILE:HB	3:BH:50:TYR:HE1	1.83	0.42
3:BH:78:SER:HB3	10:G5:322:LYS:HE2	2.01	0.42
2:BI:15:GLN:HB3	25:BI:501:GTP:HN1	1.83	0.42
5:C3:121:ARG:NH2	5:C4:378:THR:HB	2.35	0.42
5:C3:330:ILE:HG23	5:C3:331:VAL:N	2.34	0.42
5:C8:418:LEU:O	5:C8:421:VAL:HG22	2.18	0.42
3:CF:380:ARG:HA	3:CF:383:GLU:OE1	2.19	0.42
2:CI:35:GLN:HG2	2:CI:59:GLY:O	2.19	0.42
3:CJ:382:SER:HA	3:CJ:385:PHE:HD2	1.84	0.42
6:D3:136:LEU:HB3	6:D3:140:ARG:HH22	1.84	0.42
6:D8:113:TRP:HA	6:D8:116:GLU:CD	2.40	0.42
6:D8:352:VAL:HG13	6:D8:356:ARG:HH11	1.85	0.42
6:D9:73:TYR:C	6:D9:77:GLN:HE22	2.23	0.42
6:D9:244:SER:HB2	6:D9:246:LYS:NZ	2.35	0.42
2:DE:72:PRO:HA	2:DE:75:VAL:HG12	2.00	0.42
2:DE:165:SER:C	2:DE:166:LYS:HD2	2.40	0.42
2:DG:425:LEU:O	2:DG:429:GLU:OE1	2.38	0.42
3:DH:228:LEU:O	3:DH:232:THR:HG23	2.19	0.42
3:ED:198:GLU:HG2	3:ED:266:PHE:CE2	2.55	0.42
3:ED:213:ARG:HD3	3:ED:213:ARG:HA	1.80	0.42
3:ED:266:PHE:CB	3:ED:368:ILE:HD11	2.49	0.42
3:ED:309:ARG:HH21	3:ED:426:GLN:NE2	2.09	0.42
3:EH:360:GLY:O	3:EH:362:LYS:NZ	2.53	0.42
8:F7:327:THR:O	8:F7:331:GLN:HG2	2.19	0.42
3:FD:139:LEU:HD23	3:FD:168:SER:OG	2.20	0.42
2:FE:368:LEU:HG	2:FE:369:ALA:O	2.20	0.42
2:FG:17:GLY:HA2	2:FG:20:CYS:SG	2.59	0.42
2:FG:28:HIS:HE2	2:FG:48:SER:HG	1.64	0.42
2:FG:329:ASN:O	2:FG:332:ILE:HG22	2.19	0.42
3:FH:6:HIS:CD2	3:FH:134:GLN:HB3	2.54	0.42
3:FH:372:THR:HG21	3:FH:426:GLN:HG2	2.01	0.42
3:FH:379:LYS:HE2	3:FH:379:LYS:HB3	1.84	0.42
9:G1:477:SER:HB2	9:G1:483:ILE:HB	2.01	0.42
3:GD:271:ALA:HB1	3:GD:272:PRO:CD	2.49	0.42
2:GE:224:TYR:O	2:GE:228:ASN:N	2.43	0.42
3:GF:80:PRO:HB2	3:GF:81:PHE:CE2	2.54	0.42
2:GG:286:LEU:H	2:GG:286:LEU:HD23	1.85	0.42
2:GI:16:ILE:HD11	2:GI:138:PHE:HD2	1.85	0.42
2:HE:234:ILE:HD11	2:HE:272:TYR:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:256:GLN:HE22	3:HF:397:TRP:HE1	1.67	0.42
3:HF:213:ARG:CZ	3:HF:297:LYS:HD3	2.50	0.42
3:HF:213:ARG:CD	3:HF:297:LYS:HB3	2.49	0.42
3:HF:270:PHE:O	3:HF:293:MET:HE1	2.19	0.42
3:HH:344:TRP:HA	2:HI:401:LYS:NZ	2.34	0.42
3:HH:374:ILE:HG22	3:HH:378:PHE:CD2	2.54	0.42
2:IG:210:TYR:O	2:IG:214:ARG:HD2	2.20	0.42
2:IG:278:ALA:HA	2:IG:369:ALA:HB2	2.00	0.42
3:IH:8:GLN:OE1	3:IH:8:GLN:N	2.52	0.42
3:IH:112:LEU:O	3:IH:116:VAL:HG22	2.20	0.42
2:II:333:ALA:O	2:II:337:THR:HG23	2.18	0.42
2:II:392:ASP:OD1	2:II:393:HIS:N	2.52	0.42
3:JD:272:PRO:HD3	3:JD:293:MET:HE3	2.00	0.42
3:JF:117:LEU:HB3	3:JF:121:ARG:NH2	2.34	0.42
2:JG:208:ALA:HB2	2:JG:304:LYS:HE3	2.01	0.42
2:JG:280:LYS:HA	2:JG:280:LYS:HD2	1.76	0.42
14:K3:45:THR:HA	14:K3:108:ARG:HE	1.84	0.42
14:K3:116:ASP:OD1	14:K3:117:ALA:N	2.53	0.42
14:K3:127:HIS:NE2	3:KF:407:GLU:OE2	2.51	0.42
14:K3:214:GLU:O	14:K3:217:MET:HB2	2.20	0.42
2:KE:12:ALA:O	25:KE:501:GTP:N2	2.52	0.42
3:KF:151:LEU:O	3:KF:155:ILE:HG23	2.20	0.42
3:KH:3:GLU:HB2	3:KH:62:ARG:NH2	2.33	0.42
2:KI:3:GLU:OE1	2:KI:3:GLU:N	2.52	0.42
2:KI:189:LEU:HD23	2:KI:192:HIS:HE1	1.84	0.42
15:L2:55:GLU:H	15:L2:55:GLU:CD	2.15	0.42
15:L3:200:LEU:HD12	15:L3:201:LYS:N	2.34	0.42
3:LD:198:GLU:HG2	3:LD:266:PHE:CE2	2.55	0.42
2:LE:252:LEU:HA	2:LE:255:PHE:CD2	2.53	0.42
2:LE:416:GLY:O	2:LE:420:GLU:HG2	2.18	0.42
3:LF:313:VAL:HG23	3:LF:349:VAL:HA	2.01	0.42
2:LG:11:GLN:N	2:LG:11:GLN:OE1	2.52	0.42
2:LG:169:PHE:HD1	2:LG:202:PHE:HB2	1.84	0.42
2:LG:229:ARG:HE	2:LG:368:LEU:HD22	1.84	0.42
2:LI:318:LEU:HD13	2:LI:354:GLY:HA3	2.00	0.42
3:MF:156:ARG:HD2	3:MF:156:ARG:HA	1.68	0.42
3:MF:229:VAL:O	3:MF:232:THR:OG1	2.24	0.42
3:MH:117:LEU:HB3	3:MH:121:ARG:HH12	1.84	0.42
2:MI:14:VAL:HG21	2:MI:74:VAL:HG21	2.00	0.42
2:MI:255:PHE:HA	2:MI:259:LEU:HD23	2.00	0.42
17:N2:141:ILE:HD12	17:N2:141:ILE:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:N3:159:ARG:HB2	17:N3:162:ASP:HA	2.01	0.42
3:ND:95:SER:OG	3:ND:108:GLU:OE1	2.33	0.42
3:ND:222:TYR:HD1	3:ND:225:LEU:HD22	1.83	0.42
3:ND:406:MET:O	3:ND:410:GLU:OE1	2.36	0.42
2:NE:234:ILE:CD1	2:NE:272:TYR:HB2	2.50	0.42
2:NE:384:ILE:HD12	2:NE:388:TRP:HH2	1.83	0.42
3:NF:12:CYS:HA	25:NF:501:GTP:HN22	1.83	0.42
3:NF:132:GLY:HA2	3:NF:162:ARG:HB3	2.01	0.42
3:NH:58:LYS:HE2	3:OH:281:TYR:HE1	1.81	0.42
3:NH:251:ARG:HH21	3:NH:255:VAL:N	2.17	0.42
3:OD:40:SER:HB2	3:OD:43:GLN:HG2	2.01	0.42
3:OD:198:GLU:HG2	3:OD:266:PHE:CD2	2.54	0.42
3:OD:325:GLU:O	3:OD:329:GLN:HG2	2.19	0.42
2:OE:196:GLU:HG2	2:OE:197:HIS:ND1	2.34	0.42
2:OG:2:ARG:NE	2:OG:242:LEU:HG	2.35	0.42
2:OG:135:PHE:CE2	2:OG:164:LYS:HD3	2.53	0.42
2:OG:175:PRO:HA	2:OG:390:ARG:NE	2.35	0.42
19:P1:313:HIS:CE1	19:P1:329:THR:HG1	2.30	0.42
19:P2:69:CYS:SG	19:P2:117:LEU:HG	2.60	0.42
19:P2:398:ILE:HD11	19:P2:420:VAL:HG11	2.00	0.42
19:P2:520:SER:N	19:P2:551:MET:HE2	2.34	0.42
19:P2:586:HIS:CG	19:P2:590:ILE:HG12	2.55	0.42
2:PE:129:CYS:SG	2:PE:132:LEU:HB3	2.60	0.42
2:PE:211:ASP:C	2:PE:215:ARG:HE	2.21	0.42
2:PE:408:TYR:HA	2:PE:411:GLU:HG3	2.02	0.42
2:PG:252:LEU:HD12	2:PG:253:THR:N	2.34	0.42
3:PH:111:GLU:OE1	3:PH:112:LEU:HD22	2.20	0.42
2:PI:286:LEU:HD11	2:PI:373:ARG:H	1.84	0.42
20:Q1:1344:LEU:HD21	20:Q1:1442:ARG:HH21	1.84	0.42
3:QF:102:ALA:HB1	3:QF:401:GLU:OE1	2.19	0.42
3:QF:130:LEU:H	3:QF:162:ARG:HH12	1.66	0.42
3:QF:337:ASN:HB2	3:QF:340:TYR:CD2	2.54	0.42
2:QG:279:GLU:HB2	24:YJ:128:ASP:HB3	2.01	0.42
2:QG:321:GLY:HA3	2:QG:372:GLN:O	2.19	0.42
2:QI:184:PRO:HB2	2:QI:395:PHE:CE1	2.55	0.42
2:QI:232:GLY:HA2	2:QI:235:VAL:HG22	2.01	0.42
2:RE:36:MET:HG3	2:RE:37:PRO:HD2	2.01	0.42
2:RE:69:ASP:OD1	2:RE:70:LEU:N	2.52	0.42
2:RE:71:GLU:N	2:RE:71:GLU:OE1	2.53	0.42
3:RF:30:ILE:HG13	3:RF:36:TYR:HD1	1.83	0.42
3:RF:40:SER:O	3:RF:43:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:257:MET:CE	3:RF:314:ALA:HB2	2.50	0.42
2:RG:123:ARG:HG2	2:SG:293:ASN:HD21	1.85	0.42
2:RG:167:LEU:HB3	2:RG:169:PHE:CZ	2.54	0.42
2:RG:316:CYS:O	2:RG:377:MET:HA	2.19	0.42
3:RH:185:ALA:O	3:RH:189:VAL:HG12	2.19	0.42
2:RI:320:ARG:NE	2:RI:360:PRO:HA	2.35	0.42
2:RI:391:LEU:HA	2:RI:394:LYS:HE3	2.01	0.42
3:RJ:362:LYS:HA	3:RJ:362:LYS:HD3	1.81	0.42
3:RJ:420:SER:O	3:RJ:424:GLN:HG3	2.20	0.42
2:SE:139:HIS:CE1	2:SE:170:ALA:HB2	2.54	0.42
2:SE:399:TYR:CE2	2:SE:418:PHE:HB3	2.51	0.42
3:SH:97:ALA:O	3:SH:103:LYS:HE2	2.19	0.42
3:SH:117:LEU:HA	3:SH:117:LEU:HD23	1.87	0.42
2:SI:228:ASN:OD1	2:SI:229:ARG:N	2.53	0.42
2:SI:356:ASN:OD1	2:SI:358:GLN:N	2.49	0.42
3:TF:11:GLN:HG3	25:TF:501:GTP:O1A	2.19	0.42
3:TF:152:ILE:O	3:TF:156:ARG:HG2	2.19	0.42
3:TF:300:MET:SD	3:TF:300:MET:N	2.93	0.42
2:TG:368:LEU:H	2:TG:368:LEU:HD23	1.85	0.42
2:TI:173:PRO:HB2	2:TI:390:ARG:NH2	2.35	0.42
2:TI:230:LEU:O	2:TI:234:ILE:HG12	2.20	0.42
2:TI:406:HIS:HA	2:TI:409:VAL:HG22	2.01	0.42
3:TJ:83:GLN:H	3:TJ:83:GLN:CD	2.22	0.42
3:TJ:405:GLU:O	3:TJ:409:THR:HG23	2.18	0.42
3:UD:274:THR:HG21	3:UD:279:GLN:HG3	2.02	0.42
2:UG:186:ASN:HA	2:UG:189:LEU:HD12	2.02	0.42
3:UH:205:GLU:HA	3:UH:208:TYR:CD2	2.55	0.42
3:UH:385:PHE:HZ	3:UH:408:PHE:HB3	1.83	0.42
3:VD:179:VAL:O	3:VD:182:PRO:HD2	2.19	0.42
2:VE:141:PHE:HB2	2:VE:173:PRO:HD3	2.01	0.42
2:VE:319:TYR:HD2	2:VE:323:VAL:HG11	1.83	0.42
2:VG:169:PHE:CE1	2:VG:202:PHE:HD2	2.38	0.42
3:VH:81:PHE:HA	3:VH:83:GLN:HE22	1.84	0.42
2:WE:76:ASP:OD1	2:WE:79:ARG:NH1	2.52	0.42
2:WE:150:ALA:HA	2:WE:153:LEU:HG	2.02	0.42
2:WE:297:GLU:HG2	2:WE:298:PRO:HD2	2.02	0.42
2:WG:6:SER:HB3	2:WG:65:ALA:HB2	2.01	0.42
2:WG:63:PRO:HG2	2:WG:87:PHE:HE1	1.84	0.42
2:WG:256:GLN:CD	3:WH:397:TRP:HE1	2.21	0.42
3:WH:324:LYS:HG3	2:WI:221:ARG:NH1	2.35	0.42
2:WI:244:PHE:CD1	2:WI:358:GLN:HG2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XC:42:ILE:HG23	22:XC:44:SER:H	1.84	0.42
22:XC:133:GLN:OE1	22:XC:133:GLN:N	2.52	0.42
22:XD:69:LEU:HB2	22:XD:151:THR:HG23	2.01	0.42
22:XE:100:ARG:CZ	22:XE:100:ARG:HB2	2.48	0.42
22:XE:100:ARG:O	22:XE:101:ARG:HG3	2.20	0.42
22:XE:178:PRO:O	22:XE:182:LYS:N	2.46	0.42
23:XK:105:PHE:CZ	23:XK:106:PRO:HB3	2.54	0.42
23:XK:182:ASN:OD1	23:XK:232:VAL:HG13	2.19	0.42
24:YI:33:ARG:HD2	24:YI:34:GLU:N	2.34	0.42
24:YM:108:ASN:HB3	24:YM:110:LEU:HD13	2.00	0.42
1:A2:367:ARG:HH21	10:G5:182:GLY:N	2.17	0.42
2:AE:147:SER:HB2	2:AE:190:THR:CG2	2.50	0.42
2:AE:244:PHE:CB	2:AE:356:ASN:HD21	2.32	0.42
3:AF:56:GLY:O	3:AF:58:LYS:NZ	2.39	0.42
4:B7:107:ASN:C	4:B7:107:ASN:HD22	2.22	0.42
4:B7:230:GLU:O	4:B7:234:LYS:HG2	2.19	0.42
3:BF:269:GLY:HA2	3:BF:300:MET:SD	2.60	0.42
3:BF:275:SER:O	3:BF:279:GLN:NE2	2.52	0.42
2:BG:116:ASP:N	2:BG:116:ASP:OD1	2.51	0.42
2:BG:243:ARG:HB3	2:BG:244:PHE:CE2	2.54	0.42
2:BG:288:VAL:CG1	2:BG:327:ASP:HB2	2.49	0.42
3:BH:12:CYS:O	3:BH:16:ILE:HG12	2.19	0.42
3:BH:21:TRP:CH2	3:BH:61:PRO:HB3	2.54	0.42
3:BH:316:VAL:HG22	3:BH:352:ALA:HB3	2.01	0.42
2:BI:66:VAL:HA	2:BI:91:GLN:HG2	2.02	0.42
5:C2:163:GLU:O	5:C2:166:GLU:HG3	2.19	0.42
5:C3:146:LEU:HD13	5:C4:399:ARG:NH1	2.35	0.42
5:C8:377:MET:HA	5:C8:380:GLU:OE1	2.19	0.42
2:CG:84:ARG:HG2	2:CG:85:GLN:N	2.34	0.42
3:CH:132:GLY:HA2	3:CH:162:ARG:HB3	2.01	0.42
6:D3:202:ARG:NH2	7:E2:137:MET:H	2.17	0.42
3:DD:31:ASP:OD1	3:DD:35:THR:N	2.51	0.42
3:DD:39:ASP:OD1	3:DD:39:ASP:N	2.51	0.42
3:DD:380:ARG:O	3:DD:384:GLN:HG2	2.18	0.42
2:DE:216:ASN:ND2	2:DE:275:VAL:HG23	2.35	0.42
3:DF:124:ALA:HA	3:DF:127:CYS:SG	2.60	0.42
3:DF:219:THR:OG1	10:G5:269:ASN:OD1	2.33	0.42
2:DG:47:ASP:HB3	2:DG:49:PHE:CE2	2.54	0.42
2:DG:175:PRO:HG2	2:DG:304:LYS:HD3	2.00	0.42
3:DH:275:SER:O	3:DH:279:GLN:NE2	2.51	0.42
3:ED:28:HIS:ND1	3:ED:43:GLN:OE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:234:SER:HA	3:ED:237:THR:OG1	2.19	0.42
2:EG:25:CYS:SG	2:EG:26:LEU:HD22	2.60	0.42
2:EG:127:ASP:OD1	2:EG:128:LEU:N	2.50	0.42
2:EG:154:MET:HE3	2:EG:155:GLU:HG2	2.01	0.42
3:FD:372:THR:HG21	3:FD:426:GLN:HB3	2.01	0.42
3:FF:42:LEU:HD12	3:FF:243:PRO:HD2	2.00	0.42
3:FF:46:ARG:HA	3:FF:46:ARG:HD3	1.87	0.42
3:FF:114:ASP:OD1	3:FF:115:SER:N	2.51	0.42
2:FG:83:TYR:O	2:FG:86:LEU:HB2	2.19	0.42
2:FG:283:HIS:ND1	2:FG:283:HIS:O	2.52	0.42
3:FH:378:PHE:CD1	3:FH:419:VAL:HG22	2.54	0.42
9:G2:243:LEU:HB3	9:G2:266:TYR:HB3	2.01	0.42
10:G5:87:ASP:HB3	10:G5:100:ARG:HH22	1.84	0.42
10:G5:328:VAL:O	10:G5:330:GLN:NE2	2.52	0.42
10:G5:365:ARG:HD2	10:G5:371:ASP:OD1	2.20	0.42
2:GE:102:ASN:OD1	2:GE:104:ALA:N	2.53	0.42
2:GE:252:LEU:HD12	2:GE:253:THR:N	2.35	0.42
2:GE:331:ALA:O	2:GE:335:ILE:HG12	2.20	0.42
2:GE:385:ALA:HB2	2:GE:432:TYR:HD2	1.85	0.42
3:GF:62:ARG:HB3	3:GF:123:GLU:OE2	2.20	0.42
3:GF:68:LEU:HD22	3:GF:95:SER:O	2.19	0.42
2:GG:287:SER:O	2:GG:291:ILE:HG23	2.20	0.42
2:GG:311:LYS:HG2	2:GG:342:GLN:HG2	2.01	0.42
2:GG:338:LYS:NZ	2:GG:340:THR:HG23	2.35	0.42
11:H3:258:VAL:HG22	11:H3:261:LEU:H	1.84	0.42
2:HE:119:LEU:HD13	2:HE:123:ARG:HH22	1.84	0.42
2:HE:251:ASP:HB3	2:HE:254:GLU:OE1	2.20	0.42
2:HE:265:ILE:O	2:HE:265:ILE:HG23	2.19	0.42
2:HG:214:ARG:HH11	2:HG:215:ARG:HG3	1.85	0.42
3:HH:164:MET:SD	3:HH:164:MET:O	2.77	0.42
2:HI:230:LEU:O	2:HI:234:ILE:HG12	2.19	0.42
2:HI:344:VAL:HG23	2:HI:346:TRP:H	1.84	0.42
3:IF:61:PRO:HG2	3:IF:85:PHE:CE1	2.55	0.42
3:IF:334:GLN:O	3:IF:338:SER:OG	2.20	0.42
2:IG:121:ARG:O	2:IG:124:LYS:HG3	2.19	0.42
3:IH:282:ARG:NH2	3:IH:292:GLN:OE1	2.50	0.42
2:II:96:LYS:N	2:II:97:GLU:OE1	2.53	0.42
2:II:174:ALA:HA	2:II:205:ASP:OD1	2.20	0.42
2:II:209:ILE:HG21	2:II:227:LEU:HG	2.01	0.42
3:JD:251:ARG:O	3:JD:255:VAL:HG22	2.19	0.42
3:JD:310:TYR:HD2	3:JD:341:PHE:CE1	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:396:HIS:HA	3:JF:399:THR:OG1	2.20	0.42
14:K3:194:LYS:HE3	14:K4:16:VAL:HA	2.01	0.42
14:K3:391:GLU:O	14:K3:395:ARG:HG3	2.19	0.42
14:K3:405:VAL:HG23	16:M3:60:TRP:HB3	2.01	0.42
3:KF:85:PHE:O	3:KF:86:ARG:NH2	2.53	0.42
2:KG:155:GLU:O	2:KG:158:SER:OG	2.26	0.42
2:KG:252:LEU:HD12	2:KG:253:THR:N	2.35	0.42
2:KI:88:HIS:HB3	2:KI:91:GLN:HB2	2.02	0.42
15:L2:200:LEU:O	15:L2:237:LEU:HD11	2.20	0.42
3:LD:269:GLY:HA2	3:LD:300:MET:CE	2.49	0.42
2:LE:209:ILE:HD12	2:LE:230:LEU:HD11	2.02	0.42
2:LE:346:TRP:HZ3	3:LF:391:ARG:HB2	1.83	0.42
2:LG:163:LYS:HD3	18:O2:78:LYS:HZ1	1.83	0.42
2:LG:297:GLU:CD	2:LG:299:ALA:H	2.22	0.42
2:LG:326:LYS:HB3	2:LG:326:LYS:HE3	1.79	0.42
3:MF:226:ASN:HA	3:MF:229:VAL:HG22	2.02	0.42
3:MF:347:ASN:C	3:MF:349:VAL:H	2.22	0.42
3:MF:348:ASN:N	3:MF:348:ASN:OD1	2.53	0.42
3:MF:426:GLN:HE21	3:MF:426:GLN:HB3	1.70	0.42
2:MG:402:ARG:HH21	2:MG:405:VAL:HG21	1.84	0.42
3:ND:165:ASN:OD1	3:ND:166:THR:N	2.53	0.42
3:ND:225:LEU:O	3:ND:229:VAL:HG22	2.19	0.42
3:NF:293:MET:HA	3:NF:298:ASN:HD22	1.85	0.42
3:NH:73:MET:SD	3:NH:73:MET:N	2.86	0.42
3:NH:324:LYS:HE2	2:NI:222:PRO:HG2	2.01	0.42
3:NH:380:ARG:HA	3:NH:383:GLU:OE1	2.20	0.42
2:NI:387:ALA:O	2:NI:391:LEU:HG	2.20	0.42
3:OD:106:TYR:HB2	3:OD:401:GLU:OE2	2.19	0.42
3:OD:326:VAL:O	3:OD:330:MET:HG2	2.20	0.42
2:OE:326:LYS:HA	2:OE:329:ASN:ND2	2.35	0.42
3:OF:30:ILE:HG22	3:OF:31:ASP:O	2.20	0.42
3:OF:101:TRP:HE1	3:OF:149:THR:HG21	1.84	0.42
3:OH:371:SER:HG	3:OH:372:THR:H	1.67	0.42
2:OI:86:LEU:HD23	2:OI:86:LEU:HA	1.82	0.42
2:OI:114:ILE:O	2:OI:118:VAL:HG13	2.19	0.42
2:OI:291:ILE:HD11	2:OI:319:TYR:CE2	2.54	0.42
2:OI:330:ALA:O	2:OI:334:THR:HG23	2.19	0.42
19:P1:188:ASP:OD1	19:P1:190:PRO:HD2	2.18	0.42
19:P1:518:ILE:HG22	19:P1:528:TYR:CD1	2.55	0.42
19:P2:109:LEU:HB2	19:P2:140:TRP:HH2	1.84	0.42
19:P2:601:TYR:HD1	19:P2:615:LYS:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:68:VAL:HG12	2:PE:93:ILE:HB	2.00	0.42
2:PE:311:LYS:HE3	2:PE:344:VAL:HA	2.01	0.42
3:PF:376:GLU:HA	3:PF:379:LYS:HE3	2.01	0.42
2:PG:55:GLU:HA	2:PG:60:LYS:O	2.18	0.42
2:PG:178:SER:OG	2:PG:180:ALA:O	2.38	0.42
2:PG:333:ALA:HA	2:PG:336:LYS:HD2	2.02	0.42
2:PG:413:MET:HB3	2:PG:417:GLU:OE2	2.20	0.42
20:Q2:1348:LYS:HA	20:Q2:1348:LYS:HD3	1.95	0.42
20:Q2:1384:VAL:HA	20:Q2:1387:ASP:CG	2.39	0.42
2:QE:9:VAL:HA	2:QE:68:VAL:HG23	2.02	0.42
2:QE:33:ASP:OD1	2:QE:35:GLN:N	2.36	0.42
3:QF:405:GLU:HA	3:QF:408:PHE:CD2	2.54	0.42
2:QG:149:PHE:O	2:QG:152:LEU:HG	2.20	0.42
2:QI:150:ALA:HA	2:QI:153:LEU:HG	2.02	0.42
2:QI:279:GLU:O	2:QI:283:HIS:HD2	2.02	0.42
21:R2:271:ARG:HD3	21:R2:280:TYR:CD2	2.54	0.42
3:RF:313:VAL:HG12	3:RF:367:PHE:HZ	1.84	0.42
2:RI:125:LEU:HD13	2:RI:128:LEU:HD21	2.02	0.42
2:RI:152:LEU:HD12	2:RI:153:LEU:N	2.35	0.42
2:RI:265:ILE:HD12	2:RI:432:TYR:CE1	2.55	0.42
2:RI:390:ARG:HA	2:RI:393:HIS:NE2	2.34	0.42
3:RJ:191:GLN:HB3	3:RJ:195:ASN:OD1	2.19	0.42
3:RJ:308:GLY:HA3	3:RJ:372:THR:HG1	1.85	0.42
3:RJ:406:MET:N	3:RJ:406:MET:SD	2.93	0.42
2:SE:3:GLU:CD	2:SE:131:GLY:H	2.23	0.42
2:SE:202:PHE:CD1	2:SE:268:PRO:HD2	2.55	0.42
2:SE:322:ASP:OD1	2:SE:322:ASP:N	2.50	0.42
3:SF:403:MET:HB3	3:SF:407:GLU:OE1	2.19	0.42
2:SG:9:VAL:HG23	2:SG:68:VAL:HG23	2.00	0.42
3:SH:9:ALA:HB3	3:SH:137:HIS:HB3	2.01	0.42
3:SH:149:THR:O	3:SH:191:GLN:NE2	2.52	0.42
3:SH:255:VAL:HG12	2:SI:407:TRP:CD2	2.55	0.42
3:SH:420:SER:O	3:SH:424:GLN:OE1	2.36	0.42
2:SI:402:ARG:HD3	2:SI:402:ARG:O	2.19	0.42
3:TF:68:LEU:HD12	3:TF:97:ALA:HB2	2.00	0.42
3:TF:156:ARG:HD2	3:TF:156:ARG:HA	1.86	0.42
2:TG:139:HIS:NE2	2:TG:170:ALA:HB2	2.34	0.42
3:TH:86:ARG:NE	3:TH:86:ARG:HA	2.34	0.42
3:TH:167:PHE:CD1	3:TH:202:ILE:HD11	2.54	0.42
3:TJ:179:VAL:O	3:TJ:182:PRO:HD2	2.20	0.42
3:TJ:198:GLU:HA	3:TJ:266:PHE:HE2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:14:VAL:HG23	2:UG:15:GLN:H	1.85	0.42
2:UG:28:HIS:HB2	2:UG:30:ILE:HG12	2.01	0.42
2:UG:49:PHE:O	2:UG:51:THR:N	2.52	0.42
2:UG:68:VAL:HG21	2:UG:149:PHE:CE2	2.54	0.42
3:UH:374:ILE:HG22	3:UH:378:PHE:CD2	2.54	0.42
3:UH:391:ARG:O	3:UH:392:LYS:HG3	2.19	0.42
3:VD:262:ARG:HD3	3:VD:262:ARG:H	1.83	0.42
2:VE:24:TYR:HA	2:VE:27:GLU:OE1	2.19	0.42
2:VE:211:ASP:O	2:VE:214:ARG:HD3	2.20	0.42
3:VF:204:ASN:OD1	3:VF:205:GLU:N	2.52	0.42
2:VG:70:LEU:HD12	2:VG:145:THR:HB	2.02	0.42
2:VG:352:LYS:HD2	2:VG:352:LYS:HA	1.83	0.42
3:VH:186:THR:HG21	3:VH:385:PHE:CD2	2.55	0.42
2:WE:211:ASP:HA	2:WE:214:ARG:NE	2.34	0.42
3:WF:2:ARG:HH22	2:WG:105:ARG:NH2	2.18	0.42
2:WG:42:ILE:HG23	2:WG:55:GLU:CD	2.40	0.42
2:WG:206:ASN:OD1	2:WG:207:GLU:N	2.53	0.42
2:WG:399:TYR:CG	2:WG:422:ARG:NH2	2.87	0.42
3:WH:213:ARG:HG3	3:WH:297:LYS:CE	2.50	0.42
3:WH:233:MET:O	3:WH:236:VAL:HG12	2.19	0.42
22:XC:53:ASN:OD1	22:XC:54:VAL:N	2.52	0.42
22:XC:178:PRO:O	22:XC:182:LYS:N	2.45	0.42
23:XJ:59:CYS:HA	23:XJ:62:ARG:NH2	2.34	0.42
23:XL:150:CYS:HA	23:XL:153:LEU:HD12	2.02	0.42
1:A2:69:GLU:HA	4:B3:270:ARG:NH1	2.35	0.42
2:AE:6:SER:HB3	2:AE:65:ALA:HB2	2.01	0.42
2:AE:234:ILE:O	2:AE:237:SER:OG	2.30	0.42
3:AF:3:GLU:OE2	3:AF:127:CYS:HB2	2.20	0.42
3:AF:204:ASN:ND2	3:AF:208:TYR:OH	2.53	0.42
3:AF:345:ILE:HD12	3:AF:346:PRO:HD2	2.02	0.42
3:AH:14:ASN:OD1	3:AH:65:LEU:HD11	2.19	0.42
3:AH:229:VAL:HG22	3:AH:233:MET:CE	2.50	0.42
3:AH:377:LEU:O	3:AH:380:ARG:HB2	2.20	0.42
2:AI:392:ASP:OD1	2:AI:393:HIS:N	2.53	0.42
2:AI:399:TYR:HE2	2:AI:418:PHE:HB3	1.85	0.42
4:B2:299:ARG:HA	4:B2:302:GLU:CD	2.40	0.42
4:B3:396:LYS:HG3	4:B3:404:PHE:CZ	2.55	0.42
4:B7:167:GLU:O	4:B7:170:GLN:NE2	2.52	0.42
2:BE:150:ALA:HA	2:BE:153:LEU:HG	2.01	0.42
2:BE:188:ILE:HG21	2:BE:395:PHE:CE1	2.55	0.42
2:BE:330:ALA:O	2:BE:334:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:169:VAL:HG22	3:BF:170:VAL:H	1.85	0.42
3:BF:199:THR:HB	3:BF:265:PHE:HD1	1.85	0.42
3:BF:284:LEU:HA	3:BF:288:GLU:OE2	2.20	0.42
2:BG:132:LEU:O	2:BG:132:LEU:HD23	2.20	0.42
3:BH:403:MET:N	3:BH:403:MET:SD	2.90	0.42
2:BI:239:THR:O	2:BI:243:ARG:HG3	2.20	0.42
5:C2:149:ARG:HH12	5:C3:403:ARG:HH22	1.68	0.42
5:C4:381:SER:HA	5:C4:384:LYS:CE	2.50	0.42
5:C4:394:LYS:O	5:C4:398:THR:HG23	2.19	0.42
3:CF:8:GLN:HE22	3:CF:63:ALA:HB1	1.84	0.42
3:CF:146:GLY:O	3:CF:149:THR:OG1	2.37	0.42
3:CF:337:ASN:HB2	3:CF:340:TYR:HD1	1.83	0.42
2:CG:346:TRP:CE2	3:CH:391:ARG:HD2	2.54	0.42
2:CG:370:LYS:H	2:CG:370:LYS:HG2	1.53	0.42
3:CH:80:PRO:HB2	3:CH:81:PHE:CD2	2.55	0.42
2:CI:131:GLY:HA3	2:CI:133:GLN:NE2	2.35	0.42
2:CI:166:LYS:N	2:CI:199:ASP:OD2	2.53	0.42
2:CI:256:GLN:O	2:CI:260:VAL:HG12	2.20	0.42
2:CI:427:ALA:HA	2:CI:430:LYS:HG2	2.00	0.42
6:D3:92:ALA:HB2	6:D4:346:LYS:HZ2	1.83	0.42
6:D3:121:ILE:HD13	6:D3:121:ILE:HA	1.89	0.42
6:D7:321:HIS:HA	6:D7:324:LYS:NZ	2.35	0.42
3:DD:270:PHE:CG	3:DD:271:ALA:N	2.88	0.42
2:DE:56:THR:HG21	2:EE:285:GLN:HB2	2.02	0.42
3:DF:198:GLU:HG2	3:DF:266:PHE:CE2	2.55	0.42
3:DH:178:THR:HB	3:DH:181:GLU:HB2	2.02	0.42
3:DH:226:ASN:HA	3:DH:229:VAL:HG22	2.01	0.42
7:E2:74:ASP:N	7:E2:74:ASP:OD1	2.53	0.42
3:ED:375:GLN:HA	3:ED:378:PHE:CZ	2.55	0.42
2:EE:188:ILE:HG13	2:EE:189:LEU:N	2.35	0.42
2:EE:211:ASP:HA	2:EE:214:ARG:CD	2.50	0.42
2:EE:219:ILE:HG23	2:EE:219:ILE:HD12	1.81	0.42
2:EE:326:LYS:CE	3:EF:220:PRO:HD2	2.50	0.42
2:EE:387:ALA:O	2:EE:390:ARG:HB3	2.19	0.42
3:EF:152:ILE:HG13	3:EF:153:SER:N	2.35	0.42
8:F2:295:THR:O	8:F2:298:LYS:HG2	2.20	0.42
8:F2:393:GLN:NE2	8:F3:279:PHE:HA	2.35	0.42
3:FD:371:SER:OG	3:FD:372:THR:N	2.53	0.42
3:FF:323:MET:HA	3:FF:326:VAL:HG12	2.01	0.42
2:FG:50:ASN:OD1	2:FG:51:THR:N	2.53	0.42
3:FH:176:SER:O	3:FH:178:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:276:ARG:HB3	9:G2:461:ILE:HD13	2.01	0.42
10:G5:204:LEU:HD23	10:G5:204:LEU:HA	1.82	0.42
10:G5:563:THR:OG1	10:G5:743:TYR:OH	2.30	0.42
10:G5:608:VAL:HG13	10:G5:610:GLU:OE1	2.19	0.42
3:GD:245:GLN:NE2	25:GE:501:GTP:C6	2.76	0.42
3:GF:139:LEU:HD21	3:GF:170:VAL:HA	2.02	0.42
3:GH:174:LYS:HG3	3:GH:175:VAL:HG13	2.01	0.42
3:HD:42:LEU:HD11	3:HD:356:ILE:HG21	2.02	0.42
3:HD:389:PHE:CZ	3:HD:405:GLU:HB2	2.54	0.42
2:HE:175:PRO:HB2	2:HE:390:ARG:NH1	2.35	0.42
2:HE:296:PHE:CE2	2:HE:335:ILE:HG21	2.54	0.42
3:HF:403:MET:HB3	3:HF:407:GLU:OE1	2.19	0.42
3:HF:416:ASN:HA	3:HF:419:VAL:CG2	2.49	0.42
2:HG:260:VAL:O	3:HH:397:TRP:CH2	2.72	0.42
2:IE:72:PRO:HA	2:IE:75:VAL:HG12	2.02	0.42
2:IE:121:ARG:O	2:IE:124:LYS:HG2	2.19	0.42
2:IG:8:HIS:HB2	2:IG:67:PHE:CD1	2.54	0.42
3:IH:347:ASN:HB3	2:II:178:SER:HB3	2.02	0.42
2:II:187:SER:O	2:II:190:THR:OG1	2.34	0.42
2:JE:19:ALA:O	2:JE:23:LEU:HG	2.19	0.42
3:JF:324:LYS:HE3	3:JF:324:LYS:HB3	1.74	0.42
2:JG:1:MET:O	2:JG:131:GLY:HA3	2.19	0.42
3:JH:9:ALA:O	3:JH:13:GLY:HA3	2.20	0.42
14:K3:134:ARG:HD3	14:K3:250:GLN:HG2	2.02	0.42
14:K3:339:LYS:O	14:K3:342:GLU:HG2	2.19	0.42
14:K4:240:GLU:HA	16:M3:66:PHE:CE2	2.54	0.42
3:KD:207:LEU:HD23	3:KD:225:LEU:HG	2.00	0.42
3:KD:325:GLU:O	3:KD:329:GLN:HG2	2.20	0.42
3:KF:155:ILE:HA	3:KF:158:GLU:HB2	2.02	0.42
25:KH:501:GTP:H8	25:KH:501:GTP:H2'	1.50	0.42
2:KI:165:SER:C	2:KI:166:LYS:HD2	2.40	0.42
2:KI:401:LYS:HE3	2:KI:401:LYS:HB3	1.85	0.42
15:L2:125:TYR:HE1	15:L2:127:ASP:OD1	2.02	0.42
15:L2:159:CYS:HA	15:L2:162:ASN:ND2	2.35	0.42
15:L3:140:GLY:H	15:L3:143:PRO:HG3	1.85	0.42
3:LD:8:GLN:HE22	3:LD:63:ALA:HB1	1.84	0.42
3:LD:288:GLU:HA	3:LD:291:GLN:HB3	2.00	0.42
3:LD:375:GLN:CD	3:LD:375:GLN:H	2.22	0.42
2:LE:39:ASP:N	2:LE:39:ASP:OD1	2.53	0.42
2:LE:174:ALA:HB3	2:LE:177:VAL:O	2.20	0.42
3:LF:8:GLN:HG3	3:LF:65:LEU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LG:329:ASN:HA	2:LG:332:ILE:HG12	2.00	0.42
2:LG:399:TYR:O	2:LG:402:ARG:HD2	2.19	0.42
3:LH:19:LYS:O	3:LH:22:GLU:HG3	2.20	0.42
2:LI:56:THR:HB	2:MI:285:GLN:HG3	2.02	0.42
16:M3:55:ARG:NH1	16:M3:56:TYR:H	2.18	0.42
3:MF:21:TRP:HZ3	3:MF:51:TYR:CE1	2.34	0.42
2:MG:262:TYR:HB3	2:MG:264:ARG:NH2	2.34	0.42
2:NE:121:ARG:CZ	2:NE:124:LYS:HE2	2.50	0.42
2:NE:327:ASP:N	2:NE:327:ASP:OD1	2.53	0.42
3:NF:225:LEU:O	3:NF:229:VAL:HG22	2.20	0.42
3:NF:310:TYR:HE2	3:NF:337:ASN:ND2	2.17	0.42
2:NG:429:GLU:O	2:NG:433:GLU:OE1	2.38	0.42
3:NH:192:LEU:O	3:NH:196:THR:HG22	2.20	0.42
2:NI:226:ASN:O	2:NI:230:LEU:HG	2.20	0.42
3:OD:334:GLN:HA	3:OD:341:PHE:CE2	2.54	0.42
2:OE:50:ASN:O	2:OE:64:ARG:NH1	2.52	0.42
2:OE:174:ALA:HB1	2:OE:207:GLU:OE2	2.20	0.42
2:OE:247:ALA:HB3	2:OE:355:ILE:HB	2.01	0.42
3:OF:213:ARG:O	3:OF:216:LYS:HE2	2.20	0.42
3:OH:292:GLN:O	3:OH:298:ASN:ND2	2.30	0.42
3:OH:309:ARG:N	3:OH:372:THR:OG1	2.43	0.42
3:OH:357:PRO:HB3	3:OH:362:LYS:HA	2.00	0.42
2:OI:53:PHE:HB3	2:OI:61:HIS:HB3	2.01	0.42
19:P1:100:LYS:CE	19:P1:102:GLU:HB2	2.49	0.42
19:P1:277:LYS:O	19:P1:281:TYR:HA	2.20	0.42
19:P2:400:ALA:O	19:P2:409:MET:N	2.50	0.42
19:P2:445:GLN:HG2	19:P2:454:GLU:OE2	2.19	0.42
2:PE:51:THR:HG23	2:PE:52:PHE:CD1	2.55	0.42
2:PE:265:ILE:HD12	2:PE:432:TYR:CD1	2.54	0.42
3:PF:288:GLU:HA	3:PF:291:GLN:HG2	2.02	0.42
3:PF:310:TYR:HD1	3:PF:371:SER:HB2	1.85	0.42
2:PG:241:SER:O	2:PG:249:ASN:ND2	2.28	0.42
2:PI:21:TRP:CE3	2:PI:24:TYR:HD2	2.38	0.42
20:Q1:1340:TRP:CH2	20:Q1:1344:LEU:HD22	2.55	0.42
20:Q1:1447:ILE:O	20:Q1:1451:TRP:CB	2.61	0.42
20:Q1:1471:VAL:O	20:Q1:1475:ARG:HG3	2.19	0.42
2:QE:54:SER:H	2:QE:62:VAL:H	1.68	0.42
2:QE:175:PRO:O	2:QE:390:ARG:HD3	2.19	0.42
3:QF:2:ARG:HA	3:QF:129:CYS:O	2.20	0.42
3:QF:106:TYR:HB2	3:QF:401:GLU:OE2	2.19	0.42
3:QF:380:ARG:O	3:QF:383:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QI:80:THR:HA	2:QI:84:ARG:NH1	2.35	0.42
2:RE:31:GLN:CD	2:RE:37:PRO:HD3	2.39	0.42
3:RF:116:VAL:O	3:RF:120:VAL:HG13	2.19	0.42
3:RF:214:THR:HG21	3:RF:273:LEU:HB3	2.01	0.42
3:RF:245:GLN:NE2	2:RG:12:ALA:HA	2.34	0.42
2:RG:11:GLN:HG3	25:RG:501:GTP:O1B	2.19	0.42
2:RG:257:THR:HG22	3:RH:397:TRP:CD1	2.55	0.42
2:RI:19:ALA:HA	2:RI:22:GLU:OE1	2.18	0.42
2:RI:54:SER:N	2:RI:62:VAL:O	2.52	0.42
2:RI:297:GLU:OE1	2:RI:300:ASN:N	2.53	0.42
3:RJ:263:LEU:HD21	3:RJ:370:ASN:ND2	2.34	0.42
2:SE:338:LYS:NZ	2:SE:339:ARG:HG3	2.35	0.42
3:SF:113:VAL:HA	3:SF:116:VAL:HG22	2.02	0.42
3:SF:265:PHE:HD2	3:SF:374:ILE:HG21	1.84	0.42
3:SF:317:PHE:CE2	3:SF:326:VAL:HG21	2.55	0.42
2:SG:231:ILE:O	2:SG:234:ILE:HB	2.19	0.42
2:SG:258:ASN:OD1	3:SH:178:THR:HG23	2.19	0.42
3:SH:280:GLN:OE1	3:SH:280:GLN:N	2.41	0.42
3:SH:324:LYS:HE3	3:SH:324:LYS:HB3	1.91	0.42
2:SI:286:LEU:O	2:SI:373:ARG:NH2	2.53	0.42
3:TF:257:MET:O	3:TF:259:PRO:HD3	2.20	0.42
2:TG:286:LEU:H	2:TG:286:LEU:HD23	1.84	0.42
3:TH:116:VAL:HG21	3:TH:151:LEU:HD21	2.01	0.42
3:TH:151:LEU:HA	3:TH:154:LYS:HZ3	1.84	0.42
3:TJ:40:SER:O	3:TJ:43:GLN:HG2	2.20	0.42
3:TJ:226:ASN:HA	3:TJ:229:VAL:HG22	2.01	0.42
3:UD:30:ILE:HG22	3:UD:31:ASP:O	2.19	0.42
3:UD:251:ARG:O	3:UD:255:VAL:HG22	2.20	0.42
2:UE:136:LEU:HG	2:UE:169:PHE:HE2	1.84	0.42
2:UG:15:GLN:HA	2:UG:18:ASN:HB3	2.01	0.42
2:UG:397:LEU:HD12	2:UG:398:MET:N	2.35	0.42
3:UH:109:GLY:O	3:UH:113:VAL:HG22	2.20	0.42
3:UH:190:HIS:CD2	3:UH:191:GLN:HE21	2.32	0.42
3:UH:197:ASP:OD1	3:UH:197:ASP:N	2.51	0.42
3:VD:7:LEU:HD13	3:VD:64:VAL:HB	2.02	0.42
3:VD:173:PRO:HD2	3:VD:205:GLU:CD	2.39	0.42
3:VF:150:LEU:O	3:VF:154:LYS:HG3	2.19	0.42
3:VF:325:GLU:HA	3:VF:328:GLU:CD	2.40	0.42
3:VF:347:ASN:HB3	2:VG:178:SER:HB3	2.02	0.42
2:VG:88:HIS:CE1	2:VG:280:LYS:HZ1	2.38	0.42
2:VG:178:SER:OG	2:VG:180:ALA:O	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:352:LYS:HA	3:VH:177:ASP:OD1	2.20	0.42
3:VH:5:VAL:HG23	3:VH:130:LEU:HD21	2.02	0.42
3:VH:7:LEU:HB2	3:VH:135:LEU:HD23	2.01	0.42
3:VH:105:HIS:HA	3:VH:150:LEU:HD11	2.01	0.42
2:WE:132:LEU:HB2	23:XJ:71:HIS:NE2	2.35	0.42
2:WE:404:PHE:O	2:WE:407:TRP:HD1	2.02	0.42
3:WF:31:ASP:OD2	3:WF:33:THR:OG1	2.34	0.42
3:WF:70:PRO:HG3	23:XJ:74:LYS:HD2	2.01	0.42
2:WG:52:PHE:O	2:WG:64:ARG:N	2.45	0.42
2:WG:242:LEU:HD12	2:WG:242:LEU:H	1.85	0.42
3:WH:249:ASP:OD2	3:WH:251:ARG:HB3	2.20	0.42
3:WH:325:GLU:HB3	2:WI:221:ARG:HH11	1.85	0.42
2:WI:155:GLU:O	2:WI:159:VAL:HG13	2.19	0.42
23:XJ:127:LEU:HD12	23:XJ:127:LEU:H	1.85	0.42
23:XK:137:ILE:O	23:XK:141:LEU:HG	2.20	0.42
23:XL:145:ASN:HB3	23:XL:148:ILE:HD12	2.01	0.42
24:YJ:2:ASN:O	24:YJ:5:LYS:N	2.52	0.42
24:YJ:41:ARG:NH1	24:YJ:44:SER:H	2.17	0.42
24:YJ:68:MET:HA	24:YJ:71:ASP:HB2	2.01	0.42
24:YL:7:SER:O	24:YL:10:SER:OG	2.33	0.42
24:YL:114:ARG:NH2	24:YL:119:HIS:HB3	2.32	0.42
24:YM:6:GLU:HG3	24:YM:9:ARG:NH1	2.34	0.42
24:YM:46:ILE:HD12	24:YM:46:ILE:H	1.84	0.42
24:YM:105:SER:HB2	24:YM:108:ASN:HB2	2.01	0.42
24:YN:132:ASN:OD1	24:YN:133:HIS:N	2.53	0.42
1:A2:102:LEU:HD22	1:A2:150:LEU:HD23	2.02	0.42
1:A2:241:LEU:HA	1:A2:241:LEU:HD13	1.77	0.42
1:A3:195:SER:OG	1:A3:198:ILE:HD11	2.20	0.42
2:AE:252:LEU:HA	2:AE:255:PHE:CD2	2.54	0.42
2:AE:338:LYS:HA	2:AE:339:ARG:NH1	2.35	0.42
2:AE:346:TRP:N	2:AE:346:TRP:CD1	2.86	0.42
3:AF:12:CYS:O	3:AF:15:GLN:HB2	2.19	0.42
3:AF:330:MET:HA	3:AF:333:VAL:HG12	2.02	0.42
3:AH:74:ASP:HA	3:AH:77:ARG:HG2	2.00	0.42
4:B3:226:LYS:HB3	4:B3:226:LYS:HE3	1.84	0.42
4:B7:263:PHE:CE2	4:B7:267:LYS:HD2	2.55	0.42
2:BE:320:ARG:HD3	2:BE:360:PRO:HG3	2.02	0.42
2:BG:224:TYR:HE2	25:BG:501:GTP:C5	2.33	0.42
2:BG:389:ALA:HA	2:BG:392:ASP:OD2	2.19	0.42
2:BI:12:ALA:HB2	25:BI:501:GTP:H5''	2.01	0.42
2:BI:401:LYS:HB3	2:BI:401:LYS:HE2	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C2:275:ARG:O	5:C2:278:SER:HB3	2.20	0.42
5:C3:279:GLU:H	5:C3:279:GLU:CD	2.22	0.42
5:C3:391:ALA:O	5:C3:395:VAL:HG23	2.19	0.42
5:C7:124:THR:O	5:C7:128:ILE:HG12	2.20	0.42
5:C8:404:THR:OG1	5:C8:405:ARG:NH1	2.53	0.42
2:CG:156:ARG:HA	2:CG:159:VAL:HG22	2.02	0.42
3:CJ:113:VAL:HA	3:CJ:116:VAL:HG22	2.00	0.42
3:CJ:198:GLU:HG2	3:CJ:266:PHE:CE2	2.52	0.42
6:D8:114:LYS:NZ	6:D8:219:VAL:HA	2.35	0.42
3:DD:91:VAL:HG11	3:DD:116:VAL:HG12	2.01	0.42
2:DE:79:ARG:HH12	11:H3:284:PHE:C	2.23	0.42
3:DF:36:TYR:CZ	3:DF:38:GLY:HA2	2.54	0.42
3:DF:280:GLN:HA	10:G5:243:PHE:CD2	2.55	0.42
2:DG:263:PRO:HB2	2:DG:264:ARG:NH1	2.35	0.42
2:DG:313:MET:HG3	2:DG:344:VAL:HG21	2.00	0.42
3:DH:403:MET:HG2	3:DH:404:ASP:H	1.84	0.42
3:ED:206:ALA:O	3:ED:210:ILE:HG12	2.19	0.42
3:ED:320:ARG:NH2	11:H3:296:TYR:O	2.48	0.42
3:ED:324:LYS:HB3	3:ED:324:LYS:HE3	1.71	0.42
2:EE:338:LYS:HZ3	2:EE:339:ARG:H	1.66	0.42
2:EG:172:TYR:CG	2:EG:173:PRO:HD2	2.54	0.42
2:EG:345:ASP:CG	3:EH:390:ARG:HH22	2.23	0.42
3:EH:86:ARG:NE	3:EH:86:ARG:HA	2.35	0.42
3:EH:143:THR:HG22	25:EH:501:GTP:PB	2.60	0.42
3:EH:204:ASN:OD1	3:EH:204:ASN:N	2.53	0.42
3:EH:362:LYS:HA	3:EH:362:LYS:HD3	1.92	0.42
3:EH:379:LYS:HZ2	3:EH:419:VAL:HG13	1.84	0.42
8:F2:210:ASN:HB2	8:F2:346:ARG:HH22	1.84	0.42
8:F2:450:ARG:O	8:F2:454:GLU:OE1	2.38	0.42
8:F6:189:GLN:HA	8:F6:192:LEU:HG	2.01	0.42
8:F7:196:TYR:O	8:F7:199:GLU:HG3	2.20	0.42
8:F7:422:THR:O	8:F7:426:THR:HG23	2.20	0.42
3:FD:130:LEU:HB3	3:FD:162:ARG:NH1	2.34	0.42
3:FD:142:GLY:O	3:FD:145:SER:OG	2.35	0.42
2:FE:425:LEU:HD23	2:FE:428:LEU:HD12	2.02	0.42
3:FF:375:GLN:O	3:FF:379:LYS:HG2	2.20	0.42
2:FG:425:LEU:O	2:FG:428:LEU:HB2	2.19	0.42
3:FH:374:ILE:HG22	3:FH:378:PHE:CD2	2.55	0.42
10:G5:559:SER:HB2	10:G5:743:TYR:CD2	2.54	0.42
2:GE:192:HIS:HB2	2:GE:424:ASP:OD2	2.19	0.42
2:GE:223:THR:C	2:GE:225:THR:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:395:PHE:HB3	2:GE:422:ARG:NH2	2.34	0.42
3:GF:176:SER:O	3:GF:178:THR:N	2.53	0.42
2:GG:250:VAL:HG21	2:GG:318:LEU:HD11	2.00	0.42
3:HD:2:ARG:HA	3:HD:129:CYS:O	2.19	0.42
3:HD:68:LEU:HD23	3:HD:93:GLY:H	1.84	0.42
3:HD:84:ILE:O	3:HD:86:ARG:NH1	2.52	0.42
2:HE:426:ALA:HA	2:HE:429:GLU:OE1	2.20	0.42
3:HF:22:GLU:O	3:HF:25:SER:OG	2.25	0.42
3:HF:47:ILE:HG13	3:HF:51:TYR:HB2	2.01	0.42
3:HF:119:VAL:O	3:HF:123:GLU:OE1	2.38	0.42
2:HG:51:THR:HG23	2:HG:52:PHE:CD2	2.55	0.42
2:HG:126:ALA:HA	2:HG:129:CYS:SG	2.59	0.42
3:HH:224:ASP:O	3:HH:227:HIS:HB3	2.19	0.42
3:IF:316:VAL:HG22	3:IF:352:ALA:HB3	2.01	0.42
2:IG:209:ILE:HG21	2:IG:227:LEU:HG	2.01	0.42
2:IG:213:CYS:O	2:IG:217:LEU:N	2.53	0.42
13:J2:19:TYR:CG	13:J2:20:GLY:N	2.88	0.42
13:J2:70:VAL:HG12	13:J2:72:VAL:H	1.84	0.42
13:J3:93:GLY:HA2	13:J3:96:MET:HE3	2.01	0.42
3:JD:275:SER:H	3:JD:278:SER:HG	1.66	0.42
3:JD:380:ARG:O	3:JD:384:GLN:HG2	2.20	0.42
2:JE:9:VAL:HG21	2:JE:149:PHE:HD2	1.85	0.42
3:JF:42:LEU:HA	3:JF:45:GLU:CD	2.39	0.42
2:JG:234:ILE:CD1	2:JG:272:TYR:HB2	2.50	0.42
14:K2:410:PRO:O	14:K2:414:ARG:HG2	2.19	0.42
14:K3:114:HIS:O	14:K3:118:ARG:HG2	2.20	0.42
14:K3:181:LEU:HA	14:K3:184:TYR:HD1	1.85	0.42
14:K3:237:TYR:O	14:K3:240:GLU:HB2	2.19	0.42
14:K3:402:GLN:HB3	14:K3:405:VAL:HG22	2.01	0.42
3:KD:2:ARG:CZ	3:KD:240:LEU:HD12	2.50	0.42
3:KD:36:TYR:CE2	3:KD:38:GLY:HA2	2.54	0.42
3:KD:118:ASP:HA	3:KD:121:ARG:HG2	2.01	0.42
2:KE:2:ARG:NE	2:KE:242:LEU:HD13	2.34	0.42
2:KG:2:ARG:CZ	2:KG:242:LEU:HA	2.50	0.42
2:KG:27:GLU:HG2	2:KG:28:HIS:ND1	2.35	0.42
2:KG:76:ASP:OD1	2:KG:79:ARG:NH1	2.53	0.42
2:KG:252:LEU:HA	2:KG:255:PHE:CD2	2.55	0.42
3:KH:21:TRP:CE3	3:KH:21:TRP:HA	2.55	0.42
15:L3:235:LYS:O	15:L3:238:GLU:HG3	2.20	0.42
3:LD:324:LYS:HE2	2:LE:222:PRO:HD2	2.02	0.42
2:ME:24:TYR:HA	2:ME:27:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:60:VAL:HG23	3:MF:86:ARG:NH1	2.32	0.42
3:MF:132:GLY:HA2	3:MF:162:ARG:HB3	2.01	0.42
2:MG:136:LEU:HB3	2:MG:138:PHE:CZ	2.54	0.42
2:MG:332:ILE:HD11	2:MG:351:PHE:CB	2.50	0.42
3:MH:222:TYR:CD2	25:MH:501:GTP:C6	3.08	0.42
3:MH:234:SER:O	3:MH:238:THR:HG23	2.20	0.42
3:MH:324:LYS:HE3	3:MH:324:LYS:HB3	1.73	0.42
2:MI:192:HIS:ND1	2:MI:424:ASP:OD2	2.53	0.42
17:N2:78:LEU:HD11	17:N2:96:GLN:HG3	2.02	0.42
17:N2:89:LYS:O	17:N2:93:LEU:HD23	2.19	0.42
3:ND:318:ARG:HD3	3:ND:358:PRO:HG3	2.01	0.42
2:NE:252:LEU:HD12	2:NE:253:THR:N	2.34	0.42
2:NI:136:LEU:HD13	2:NI:167:LEU:CB	2.50	0.42
2:NI:216:ASN:ND2	2:NI:275:VAL:O	2.53	0.42
2:NI:285:GLN:NE2	2:NI:286:LEU:O	2.53	0.42
2:NI:314:ALA:O	2:NI:379:SER:HA	2.20	0.42
2:OE:21:TRP:HE1	2:OE:65:ALA:HB3	1.85	0.42
2:OE:415:GLU:OE2	2:OE:419:SER:OG	2.37	0.42
3:OF:324:LYS:HE2	2:OG:222:PRO:CD	2.44	0.42
2:OG:291:ILE:HD11	2:OG:319:TYR:HE2	1.84	0.42
3:OH:130:LEU:HB3	3:OH:162:ARG:NH1	2.34	0.42
3:OH:374:ILE:HD12	3:OH:374:ILE:H	1.84	0.42
2:OI:23:LEU:O	2:OI:27:GLU:OE1	2.37	0.42
2:OI:172:TYR:OH	2:OI:387:ALA:HB1	2.19	0.42
19:P2:285:LYS:NZ	19:P2:319:PHE:O	2.51	0.42
19:P2:592:ALA:O	19:P2:593:MET:HE2	2.20	0.42
2:PG:182:VAL:HG23	2:PG:408:TYR:OH	2.19	0.42
2:PG:239:THR:HA	2:PG:242:LEU:HD13	2.01	0.42
3:PH:117:LEU:HB3	3:PH:121:ARG:NH1	2.35	0.42
20:Q1:1439:ALA:O	20:Q1:1443:ILE:HG12	2.20	0.42
2:QE:188:ILE:HG13	2:QE:189:LEU:N	2.33	0.42
2:QG:207:GLU:HB2	2:QG:304:LYS:HZ1	1.83	0.42
3:QH:21:TRP:CZ2	3:QH:63:ALA:HB2	2.55	0.42
3:QH:217:LEU:C	3:QH:219:THR:H	2.23	0.42
3:QH:315:ALA:O	3:QH:351:THR:HA	2.19	0.42
2:RE:254:GLU:OE2	3:RF:98:GLY:HA2	2.20	0.42
3:RF:207:LEU:HA	3:RF:210:ILE:HG12	2.01	0.42
3:RF:350:LYS:HD3	2:RG:179:THR:O	2.19	0.42
3:RF:405:GLU:OE2	3:RF:408:PHE:HB3	2.20	0.42
2:RG:286:LEU:H	2:RG:286:LEU:HD23	1.83	0.42
3:RH:322:SER:N	3:RH:325:GLU:OE2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:379:LYS:HB2	3:RH:379:LYS:HE3	1.83	0.42
3:RJ:156:ARG:NH2	3:RJ:194:GLU:O	2.53	0.42
3:RJ:381:ILE:CG2	3:RJ:385:PHE:HE2	2.32	0.42
3:RJ:403:MET:HB3	3:RJ:407:GLU:OE1	2.20	0.42
2:SE:47:ASP:HB3	2:SE:49:PHE:CD2	2.54	0.42
2:SG:102:ASN:HB3	2:SG:105:ARG:HB3	2.02	0.42
2:SG:287:SER:HA	2:SG:373:ARG:HD3	2.01	0.42
2:SG:336:LYS:HD2	2:SG:351:PHE:CZ	2.54	0.42
3:SH:290:THR:O	3:SH:293:MET:HB3	2.19	0.42
3:SH:361:LEU:HD11	3:SH:364:SER:HB3	2.01	0.42
2:SI:141:PHE:N	2:SI:170:ALA:HB1	2.34	0.42
2:SI:237:SER:HA	2:SI:320:ARG:HH11	1.85	0.42
2:TG:75:VAL:HA	2:TG:78:VAL:HG12	2.02	0.42
3:TH:39:ASP:OD1	3:TH:39:ASP:N	2.52	0.42
2:TI:189:LEU:HD11	2:TI:418:PHE:CE1	2.55	0.42
2:TI:234:ILE:HD11	2:TI:272:TYR:HB2	2.01	0.42
3:TJ:117:LEU:HB3	3:TJ:121:ARG:NH2	2.35	0.42
3:TJ:149:THR:HA	3:TJ:152:ILE:HG12	2.01	0.42
3:UD:74:ASP:O	3:UD:77:ARG:HG3	2.20	0.42
3:UD:267:MET:HB2	3:UD:301:ALA:HB3	2.00	0.42
2:UE:28:HIS:HB2	2:UE:30:ILE:HG12	2.02	0.42
2:UE:245:ASP:HB2	2:UE:357:TYR:HE2	1.85	0.42
3:UH:139:LEU:HD21	3:UH:170:VAL:HG22	2.00	0.42
3:UH:375:GLN:NE2	3:UH:422:TYR:HB3	2.24	0.42
3:VD:47:ILE:HD12	3:VD:47:ILE:HA	1.89	0.42
2:VE:89:PRO:HD2	2:WE:280:LYS:HZ2	1.85	0.42
2:VE:286:LEU:H	2:VE:286:LEU:HD23	1.84	0.42
2:VG:5:ILE:O	2:VG:135:PHE:HA	2.20	0.42
2:VG:388:TRP:HB3	2:VG:425:LEU:HD11	2.02	0.42
3:VH:240:LEU:HD21	3:VH:250:LEU:HD23	2.02	0.42
2:WE:68:VAL:HG21	2:WE:149:PHE:HE2	1.85	0.42
3:WF:271:ALA:HB2	3:WF:365:ALA:HB3	2.02	0.42
2:WG:317:MET:HA	2:WG:376:CYS:O	2.20	0.42
3:WH:12:CYS:HB3	25:WH:501:GTP:H5'	2.02	0.42
3:WH:224:ASP:O	3:WH:228:LEU:HG	2.19	0.42
2:WI:311:LYS:H	2:WI:382:THR:HG1	1.62	0.42
23:XJ:145:ASN:OD1	23:XJ:148:ILE:HG13	2.19	0.42
24:YI:140:LEU:HD12	24:YI:141:ILE:N	2.35	0.42
24:YJ:140:LEU:HD12	24:YJ:141:ILE:HG13	2.01	0.42
24:YM:6:GLU:O	24:YM:9:ARG:HG2	2.20	0.42
1:A2:213:SER:OG	1:A2:216:ASP:OD2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:32:SER:O	1:A3:36:ARG:NE	2.49	0.42
2:AE:16:ILE:HG13	2:AE:17:GLY:N	2.35	0.42
2:AE:90:GLU:HG2	2:AE:121:ARG:NH2	2.35	0.42
2:AE:107:HIS:CD2	2:AE:152:LEU:HD12	2.55	0.42
3:AF:246:LEU:HD22	3:AF:353:VAL:O	2.20	0.42
3:AH:141:GLY:HA3	25:AH:501:GTP:H5''	2.00	0.42
3:AH:325:GLU:HB3	2:AI:221:ARG:NH1	2.35	0.42
3:AH:409:THR:O	3:AH:412:GLU:HG3	2.20	0.42
2:AI:174:ALA:HA	2:AI:205:ASP:OD1	2.20	0.42
2:AI:280:LYS:HA	2:AI:280:LYS:HD2	1.87	0.42
4:B7:100:GLU:OE2	6:D8:161:ARG:HG3	2.19	0.42
2:BE:331:ALA:O	2:BE:335:ILE:HG12	2.20	0.42
3:BF:117:LEU:HB3	3:BF:121:ARG:NH2	2.35	0.42
3:BF:286:VAL:HG21	3:BF:325:GLU:HG3	2.00	0.42
2:BG:141:PHE:CD2	2:BG:172:TYR:HA	2.55	0.42
2:BG:431:ASP:O	2:BG:435:VAL:HG22	2.20	0.42
2:BI:43:GLY:C	2:BI:45:GLY:H	2.23	0.42
2:BI:119:LEU:HB3	2:BI:123:ARG:HH12	1.84	0.42
5:C2:121:ARG:O	5:C2:124:THR:OG1	2.26	0.42
5:C3:174:LEU:HA	5:C3:322:ARG:HH22	1.84	0.42
5:C3:176:ASP:O	5:C3:179:ARG:HB2	2.20	0.42
5:C3:272:GLN:O	5:C4:399:ARG:NH2	2.53	0.42
5:C7:94:TYR:HB2	5:C8:211:VAL:HG22	2.02	0.42
5:C7:261:LYS:HG3	5:C7:262:GLN:N	2.35	0.42
5:C8:202:ARG:HH22	5:C8:472:LYS:HD2	1.85	0.42
3:CF:16:ILE:HD13	3:CF:226:ASN:HD22	1.85	0.42
3:CF:284:LEU:HD12	3:CF:284:LEU:HA	1.84	0.42
2:CI:370:LYS:H	2:CI:370:LYS:HG2	1.62	0.42
3:CJ:30:ILE:HD12	3:CJ:30:ILE:H	1.85	0.42
3:CJ:180:VAL:HG23	3:CJ:183:TYR:HD2	1.85	0.42
6:D3:140:ARG:O	6:D3:143:ASP:HB3	2.19	0.42
6:D7:358:TYR:O	6:D7:362:HIS:CD2	2.73	0.42
6:D7:363:ARG:HH22	6:D8:228:CYS:HB2	1.85	0.42
2:DE:224:TYR:O	2:DE:225:THR:C	2.56	0.42
2:DE:333:ALA:O	2:DE:337:THR:HG23	2.19	0.42
2:DE:388:TRP:HB3	2:DE:429:GLU:OE2	2.19	0.42
3:DF:215:LEU:HD23	3:DF:217:LEU:HD21	2.02	0.42
2:DG:47:ASP:O	2:DG:50:ASN:N	2.40	0.42
2:DG:99:ALA:H	2:DG:145:THR:HG22	1.84	0.42
2:DG:297:GLU:HG2	2:DG:298:PRO:HD2	2.02	0.42
2:DG:417:GLU:OE1	2:DG:417:GLU:N	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:262:ARG:NH2	3:DH:425:TYR:OH	2.51	0.42
3:ED:7:LEU:HD13	3:ED:64:VAL:HB	2.02	0.42
3:ED:350:LYS:NZ	2:EE:181:VAL:HG13	2.35	0.42
2:EG:89:PRO:HD3	2:FG:283:HIS:HE1	1.84	0.42
3:EH:41:ASP:N	3:EH:41:ASP:OD1	2.53	0.42
3:EH:320:ARG:HA	3:EH:320:ARG:NH1	2.35	0.42
3:EH:372:THR:O	3:EH:375:GLN:NE2	2.42	0.42
8:F2:201:ARG:NH1	8:F2:206:LEU:HA	2.34	0.42
8:F3:301:ASN:O	8:F3:304:ILE:HG12	2.20	0.42
3:FD:316:VAL:HB	3:FD:366:THR:CG2	2.50	0.42
2:FG:240:ALA:HB1	2:FG:356:ASN:ND2	2.28	0.42
3:FH:3:GLU:OE2	3:FH:127:CYS:HB2	2.20	0.42
3:FH:151:LEU:O	3:FH:155:ILE:HG23	2.19	0.42
9:G1:194:LEU:HA	9:G1:194:LEU:HD12	1.81	0.42
9:G2:246:TYR:HB2	9:G2:346:ASP:HB3	2.02	0.42
10:G5:622:ARG:HB3	10:G5:626:LYS:HZ3	1.85	0.42
10:G5:626:LYS:HA	10:G5:629:LYS:HE2	2.02	0.42
3:GD:182:PRO:HB2	3:GD:388:MET:HE1	2.02	0.42
2:GE:25:CYS:HB3	2:GE:30:ILE:HB	2.02	0.42
2:GE:224:TYR:O	2:GE:225:THR:C	2.55	0.42
2:GE:231:ILE:HD12	2:GE:231:ILE:HA	1.80	0.42
2:GG:326:LYS:HA	2:GG:329:ASN:HD21	1.85	0.42
3:GH:4:ILE:HB	3:GH:50:TYR:HE1	1.85	0.42
3:GH:187:LEU:HD23	3:GH:187:LEU:HA	1.89	0.42
3:GH:378:PHE:CE1	3:GH:419:VAL:HG22	2.55	0.42
2:HE:261:PRO:HG3	2:HE:313:MET:HE2	2.01	0.42
2:HE:329:ASN:O	2:HE:332:ILE:HG22	2.20	0.42
2:HE:338:LYS:HZ1	2:HE:340:THR:HG23	1.84	0.42
3:HF:69:GLU:OE1	3:HF:72:THR:HG23	2.19	0.42
3:HF:112:LEU:O	3:HF:116:VAL:HG13	2.20	0.42
2:HG:12:ALA:O	25:HG:501:GTP:C2	2.73	0.42
3:HH:75:SER:O	3:HH:78:SER:OG	2.32	0.42
3:HH:279:GLN:H	3:HH:279:GLN:CD	2.20	0.42
2:HI:212:ILE:HA	2:HI:215:ARG:HE	1.84	0.42
12:I2:71:THR:HB	12:I2:75:PRO:HG3	2.01	0.42
2:IE:66:VAL:HA	2:IE:91:GLN:OE1	2.20	0.42
3:IF:7:LEU:HD13	3:IF:64:VAL:HB	2.02	0.42
3:IF:156:ARG:HA	3:IF:156:ARG:HD2	1.78	0.42
3:IF:174:LYS:N	3:IF:205:GLU:OE2	2.32	0.42
2:IG:256:GLN:HE22	3:IH:397:TRP:HE1	1.68	0.42
2:II:287:SER:O	2:II:291:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:341:ILE:HD12	2:II:343:PHE:CZ	2.54	0.42
13:J3:30:ILE:O	13:J3:139:ARG:NH2	2.53	0.42
3:JD:4:ILE:HB	3:JD:50:TYR:CE1	2.54	0.42
3:JD:72:THR:O	3:JD:75:SER:OG	2.32	0.42
3:JD:324:LYS:HB3	3:JD:324:LYS:HE3	1.84	0.42
2:JE:392:ASP:OD1	2:JE:393:HIS:N	2.52	0.42
2:JE:431:ASP:O	2:JE:435:VAL:HG22	2.20	0.42
2:JG:55:GLU:HG3	2:JG:61:HIS:N	2.34	0.42
3:JH:6:HIS:CE1	3:JH:8:GLN:HE21	2.38	0.42
14:K2:176:GLN:HA	14:K2:179:VAL:HG22	2.00	0.42
14:K2:388:GLU:HA	14:K2:391:GLU:HA	2.02	0.42
14:K3:144:GLN:HB2	14:K3:234:LEU:CD2	2.48	0.42
14:K4:136:THR:O	14:K4:139:ARG:HG2	2.19	0.42
3:KD:268:PRO:HD2	3:KD:301:ALA:HB2	2.02	0.42
2:KE:286:LEU:HG	2:KE:373:ARG:HD2	2.01	0.42
2:KE:420:GLU:HA	2:KE:423:GLU:OE2	2.20	0.42
3:KF:375:GLN:NE2	3:KF:422:TYR:HB3	2.35	0.42
2:KG:280:LYS:HD2	2:KG:280:LYS:HA	1.70	0.42
2:KG:362:VAL:HA	2:KG:368:LEU:HD11	2.02	0.42
2:KG:390:ARG:HA	2:KG:393:HIS:HD2	1.82	0.42
3:KH:176:SER:O	3:KH:178:THR:N	2.53	0.42
2:KI:125:LEU:O	2:KI:128:LEU:HG	2.20	0.42
2:KI:248:LEU:HD11	2:KI:353:VAL:HG13	2.02	0.42
2:KI:414:GLU:N	2:KI:414:GLU:OE1	2.53	0.42
15:L2:66:HIS:H	3:LD:414:ASN:HD21	1.67	0.42
15:L2:124:ILE:HD12	15:L2:135:ASP:HA	2.02	0.42
15:L2:187:ARG:HH22	15:L2:249:ILE:HB	1.85	0.42
15:L2:222:PRO:HG2	2:VE:42:ILE:O	2.20	0.42
15:L3:120:LYS:HG3	15:L3:122:LYS:HZ1	1.85	0.42
2:LE:171:ILE:HD12	2:LE:204:VAL:O	2.20	0.42
2:LE:344:VAL:HB	2:LE:346:TRP:CD1	2.49	0.42
2:LE:390:ARG:HG2	2:LE:394:LYS:NZ	2.35	0.42
3:LF:324:LYS:HE2	2:LG:222:PRO:HG2	2.01	0.42
2:LG:90:GLU:HG2	2:LG:121:ARG:NH1	2.34	0.42
2:LG:409:VAL:HA	2:LG:413:MET:O	2.20	0.42
3:LH:322:SER:OG	3:LH:323:MET:N	2.53	0.42
3:LH:391:ARG:O	3:LH:392:LYS:HG3	2.20	0.42
2:LI:168:GLU:OE1	2:LI:198:SER:OG	2.28	0.42
2:LI:405:VAL:O	2:LI:409:VAL:HG13	2.20	0.42
2:ME:167:LEU:HD12	2:ME:169:PHE:CE1	2.55	0.42
2:ME:385:ALA:HA	2:ME:388:TRP:HE3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:388:TRP:CD1	2:ME:425:LEU:HD11	2.55	0.42
3:MF:11:GLN:HG3	25:MF:501:GTP:O1A	2.20	0.42
3:MF:337:ASN:HD22	3:MF:340:TYR:HD2	1.68	0.42
2:MG:189:LEU:HA	2:MG:192:HIS:NE2	2.35	0.42
3:MH:217:LEU:HD11	3:MH:220:PRO:HB3	2.01	0.42
2:MI:188:ILE:HA	2:MI:191:THR:HG22	2.02	0.42
2:NE:36:MET:HB3	2:NE:39:ASP:OD1	2.20	0.42
2:NE:79:ARG:O	2:NE:84:ARG:HG3	2.20	0.42
2:NE:261:PRO:HA	3:NF:394:PHE:CE1	2.46	0.42
3:NF:87:PRO:HA	3:NF:90:PHE:CD2	2.55	0.42
3:NF:101:TRP:CZ3	3:NF:187:LEU:HD22	2.55	0.42
3:NF:252:LYS:HE2	2:NG:101:ASN:N	2.35	0.42
2:NG:77:GLU:O	2:NG:80:THR:OG1	2.23	0.42
2:NG:320:ARG:HH21	2:NG:360:PRO:HA	1.85	0.42
2:NG:406:HIS:CE1	2:NG:407:TRP:CD1	3.08	0.42
3:NH:30:ILE:HG22	3:NH:31:ASP:O	2.19	0.42
3:NH:31:ASP:OD1	3:NH:35:THR:N	2.53	0.42
3:NH:148:GLY:O	3:NH:152:ILE:HG12	2.19	0.42
3:NH:262:ARG:NH2	3:NH:425:TYR:OH	2.53	0.42
3:NH:334:GLN:HA	3:NH:341:PHE:HE2	1.85	0.42
2:NI:45:GLY:HA2	2:NI:49:PHE:HE1	1.85	0.42
3:OD:24:ILE:HG23	3:OD:28:HIS:HD2	1.85	0.42
3:OD:311:LEU:HB2	3:OD:370:ASN:O	2.20	0.42
3:OD:385:PHE:O	3:OD:389:PHE:HD1	2.03	0.42
2:OE:202:PHE:CD1	2:OE:268:PRO:HD2	2.54	0.42
3:OF:69:GLU:O	3:OF:72:THR:OG1	2.29	0.42
2:OG:91:GLN:HE21	2:OG:125:LEU:HD21	1.85	0.42
2:OG:326:LYS:HZ2	3:OH:211:CYS:HB3	1.85	0.42
3:OH:254:ALA:O	3:OH:258:VAL:HG12	2.20	0.42
19:P1:40:ILE:HG21	19:P1:72:ILE:HD11	2.01	0.42
19:P1:279:PRO:HB2	19:P1:280:SER:H	1.66	0.42
19:P1:388:SER:HA	19:P1:401:PHE:O	2.20	0.42
19:P2:250:SER:OG	19:P2:270:ALA:HB2	2.18	0.42
19:P2:499:ILE:HG23	19:P2:529:TRP:CZ3	2.54	0.42
19:P2:572:TRP:CE2	19:P2:579:VAL:HG22	2.55	0.42
2:PE:90:GLU:OE1	2:PE:90:GLU:N	2.52	0.42
2:PE:262:TYR:CG	2:PE:263:PRO:HD2	2.53	0.42
3:PF:30:ILE:HG13	3:PF:36:TYR:HD1	1.85	0.42
3:PF:113:VAL:HA	3:PF:116:VAL:HG22	2.02	0.42
3:PF:158:GLU:HG3	3:PF:159:TYR:CD2	2.55	0.42
2:PG:388:TRP:HA	2:PG:391:LEU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:4:ILE:HB	3:PH:50:TYR:HE1	1.84	0.42
3:PH:69:GLU:CD	3:PH:71:GLY:H	2.23	0.42
2:PI:99:ALA:HA	2:PI:105:ARG:HG3	2.01	0.42
20:Q1:1414:LEU:HD23	20:Q1:1418:MET:HE2	2.01	0.42
2:QE:88:HIS:HE1	2:QE:90:GLU:HG2	1.85	0.42
2:QE:312:TYR:HD1	2:QE:381:THR:HB	1.84	0.42
2:QG:321:GLY:HA2	2:QG:359:PRO:HA	2.01	0.42
2:QG:438:ASP:N	2:QG:438:ASP:OD1	2.51	0.42
2:QI:167:LEU:HB3	2:QI:169:PHE:CZ	2.55	0.42
2:QI:175:PRO:HD3	2:QI:205:ASP:OD1	2.19	0.42
21:R2:262:LYS:HA	21:R2:265:LYS:NZ	2.35	0.42
2:RE:109:THR:OG1	2:RE:110:ILE:HG12	2.20	0.42
3:RF:36:TYR:CE2	3:RF:38:GLY:HA2	2.54	0.42
3:RF:117:LEU:HA	3:RF:117:LEU:HD23	1.81	0.42
3:RH:290:THR:HG21	3:RH:329:GLN:HB3	2.01	0.42
3:RH:324:LYS:HD2	2:RI:221:ARG:HH11	1.82	0.42
3:RH:375:GLN:NE2	3:RH:422:TYR:HB3	2.34	0.42
3:RJ:137:HIS:NE2	3:RJ:168:SER:HB2	2.35	0.42
2:SE:186:ASN:OD1	2:SE:187:SER:N	2.53	0.42
2:SG:88:HIS:HD2	2:TG:284:GLU:OE2	2.02	0.42
2:SG:189:LEU:O	2:SG:192:HIS:ND1	2.51	0.42
2:SG:268:PRO:HG2	2:SG:378:LEU:HD11	2.02	0.42
2:SG:392:ASP:OD1	2:SG:393:HIS:N	2.53	0.42
3:SH:77:ARG:HD2	3:SH:78:SER:N	2.35	0.42
3:SH:372:THR:HG21	3:SH:426:GLN:HG2	2.02	0.42
2:SI:51:THR:HG23	2:SI:52:PHE:CD1	2.54	0.42
2:SI:145:THR:OG1	25:SI:501:GTP:O3B	2.35	0.42
3:SJ:83:GLN:OE1	3:SJ:83:GLN:N	2.43	0.42
3:SJ:382:SER:O	3:SJ:386:THR:HG23	2.20	0.42
2:TG:272:TYR:HD2	2:TG:275:VAL:HG13	1.84	0.42
2:TG:411:GLU:OE2	2:TG:413:MET:HG2	2.20	0.42
2:TI:338:LYS:NZ	2:TI:339:ARG:H	2.16	0.42
3:TJ:309:ARG:NH1	3:TJ:342:VAL:HA	2.35	0.42
3:UD:36:TYR:CE2	3:UD:44:LEU:HD13	2.55	0.42
3:UD:324:LYS:O	3:UD:328:GLU:HG3	2.19	0.42
3:UF:67:ASP:N	3:UF:67:ASP:OD1	2.52	0.42
3:UF:251:ARG:O	3:UF:255:VAL:HG22	2.20	0.42
2:UG:108:TYR:O	2:UG:112:LYS:NZ	2.32	0.42
2:UG:425:LEU:O	2:UG:429:GLU:OE1	2.38	0.42
3:UH:19:LYS:O	3:UH:23:VAL:HG23	2.19	0.42
3:VD:251:ARG:O	3:VD:255:VAL:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:405:GLU:OE1	3:VD:405:GLU:N	2.37	0.42
2:VE:22:GLU:HA	2:VE:25:CYS:SG	2.60	0.42
2:VE:288:VAL:HA	2:VE:291:ILE:HG12	2.02	0.42
2:VG:3:GLU:HA	2:VG:51:THR:OG1	2.20	0.42
2:VG:137:ILE:O	2:VG:169:PHE:N	2.42	0.42
3:VH:6:HIS:CE1	3:VH:21:TRP:HE1	2.38	0.42
3:VH:218:THR:OG1	3:VH:219:THR:N	2.52	0.42
3:VH:357:PRO:O	3:VH:359:ARG:NH1	2.49	0.42
2:WE:139:HIS:CE1	2:WE:170:ALA:HB2	2.55	0.42
2:WE:430:LYS:HA	2:WE:433:GLU:OE1	2.20	0.42
2:WG:172:TYR:OH	2:WG:391:LEU:HD11	2.20	0.42
3:WH:119:VAL:O	3:WH:122:LYS:HB2	2.19	0.42
2:WI:36:MET:HE3	2:WI:37:PRO:HD3	2.02	0.42
2:WI:121:ARG:HH11	22:XE:6:PHE:HZ	1.65	0.42
22:XE:39:ASP:CG	22:XE:42:ILE:HG22	2.40	0.42
22:XE:116:PRO:HA	22:XE:144:TYR:HE1	1.85	0.42
24:YI:41:ARG:NH1	24:YI:44:SER:H	2.17	0.42
24:YI:42:PRO:HB2	24:YI:111:SER:HB2	2.02	0.42
24:YM:110:LEU:HD23	24:YM:140:LEU:HB2	2.02	0.42
24:YN:129:GLU:HG2	24:YN:130:ALA:N	2.35	0.42
1:A2:323:ARG:HH21	1:A2:328:LEU:HA	1.84	0.42
3:AH:2:ARG:CZ	2:AI:97:GLU:HA	2.49	0.42
3:AH:372:THR:HG21	3:AH:426:GLN:HB2	2.01	0.42
3:BF:2:ARG:HA	3:BF:129:CYS:O	2.20	0.42
2:BG:16:ILE:HG13	2:BG:17:GLY:H	1.85	0.42
3:BH:145:SER:HB2	3:BH:188:SER:HB3	2.02	0.42
3:BH:167:PHE:CD1	3:BH:200:TYR:HB2	2.55	0.42
3:BH:325:GLU:HB3	2:BI:221:ARG:HH12	1.85	0.42
3:BH:330:MET:HG2	3:BH:349:VAL:HG11	2.01	0.42
3:BH:346:PRO:HG3	2:BI:394:LYS:HE2	2.01	0.42
2:BI:244:PHE:CE2	2:BI:358:GLN:HG2	2.55	0.42
5:C7:109:GLU:OE2	7:E2:146:GLY:N	2.53	0.42
5:C7:231:GLU:O	5:C7:234:ARG:HG2	2.20	0.42
5:C8:349:ASN:OD1	5:C8:350:ARG:N	2.53	0.42
5:C8:447:SER:O	5:C8:451:THR:HG23	2.20	0.42
3:CF:86:ARG:HD3	3:DD:281:TYR:HB3	2.01	0.42
3:CF:378:PHE:CD1	3:CF:419:VAL:HG22	2.55	0.42
2:CG:120:ASP:HA	2:CG:123:ARG:HG2	2.02	0.42
2:CG:189:LEU:HA	2:CG:192:HIS:HD1	1.85	0.42
2:CG:212:ILE:HD11	2:CG:300:ASN:HA	2.02	0.42
2:CG:261:PRO:HA	3:CH:394:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:320:ARG:HG2	2:CG:358:GLN:O	2.20	0.42
3:CH:95:SER:OG	3:CH:96:GLY:N	2.53	0.42
3:CH:372:THR:HG21	3:CH:426:GLN:HG3	2.02	0.42
2:CI:31:GLN:HE22	2:CI:37:PRO:HD3	1.85	0.42
2:CI:202:PHE:CD1	2:CI:268:PRO:HD2	2.55	0.42
3:CJ:102:ALA:HB1	3:CJ:401:GLU:OE1	2.18	0.42
6:D3:186:ILE:O	6:D3:190:LEU:HG	2.20	0.42
6:D8:371:ASP:OD2	6:D9:106:ARG:NH1	2.53	0.42
2:DE:17:GLY:O	2:DE:21:TRP:HE3	2.03	0.42
2:DE:84:ARG:CG	11:H3:282:ILE:HD11	2.48	0.42
2:DE:90:GLU:OE2	2:EE:280:LYS:HE2	2.20	0.42
2:DE:229:ARG:NE	2:DE:368:LEU:HD22	2.35	0.42
2:DE:251:ASP:HB3	2:DE:254:GLU:OE1	2.20	0.42
2:DE:332:ILE:HG13	2:DE:336:LYS:NZ	2.35	0.42
2:DG:22:GLU:HG2	2:DG:83:TYR:CE2	2.54	0.42
2:DG:56:THR:OG1	2:EG:285:GLN:HB2	2.20	0.42
2:DG:224:TYR:CE1	25:DG:501:GTP:C5	3.05	0.42
3:ED:20:PHE:O	3:ED:24:ILE:HG13	2.20	0.42
2:EE:2:ARG:HD3	2:EE:242:LEU:O	2.19	0.42
3:EF:120:VAL:O	3:EF:123:GLU:HG3	2.20	0.42
3:EF:237:THR:O	3:EF:241:ARG:NH1	2.53	0.42
2:EG:280:LYS:HA	2:EG:280:LYS:HD2	1.85	0.42
2:EG:401:LYS:HB3	2:EG:401:LYS:HE3	1.82	0.42
3:EH:2:ARG:HB2	3:EH:131:GLN:CD	2.40	0.42
3:EH:222:TYR:CG	25:EH:501:GTP:C6	3.08	0.42
10:G5:139:PRO:HA	10:G5:140:PRO:HD3	1.83	0.42
3:GD:211:CYS:SG	3:GD:220:PRO:HG3	2.59	0.42
2:GE:147:SER:HB2	2:GE:190:THR:CG2	2.50	0.42
2:GE:317:MET:O	2:GE:353:VAL:HA	2.20	0.42
2:GG:261:PRO:HG3	2:GG:313:MET:CE	2.50	0.42
3:GH:36:TYR:CE2	3:GH:44:LEU:HD13	2.54	0.42
3:GH:41:ASP:OD1	3:GH:41:ASP:N	2.50	0.42
2:GI:8:HIS:HB3	2:GI:13:GLY:O	2.19	0.42
2:GI:31:GLN:O	2:GI:34:GLY:N	2.51	0.42
3:HD:218:THR:OG1	3:HD:219:THR:N	2.53	0.42
2:HE:216:ASN:HD21	2:HE:275:VAL:HB	1.85	0.42
2:HE:297:GLU:CD	2:HE:299:ALA:H	2.23	0.42
3:HF:172:SER:HB3	3:HF:175:VAL:O	2.20	0.42
3:HF:309:ARG:HE	3:HF:426:GLN:NE2	2.18	0.42
2:HG:325:PRO:HG3	3:HH:222:TYR:CE1	2.51	0.42
2:IE:125:LEU:O	2:IE:128:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:276:ILE:HA	2:IE:276:ILE:HD12	1.86	0.42
3:IF:11:GLN:HE21	25:IF:501:GTP:H3'	1.85	0.42
2:IG:228:ASN:O	2:IG:231:ILE:HG22	2.20	0.42
3:IH:47:ILE:HD12	3:IH:47:ILE:HA	1.89	0.42
3:IH:350:LYS:HA	3:IH:350:LYS:HD3	1.85	0.42
13:J2:170:SER:HB3	13:J2:180:GLU:OE1	2.20	0.42
13:J3:92:HIS:HD2	13:J3:96:MET:CE	2.33	0.42
13:J3:92:HIS:O	13:J3:96:MET:HE2	2.20	0.42
2:JE:132:LEU:HD23	2:JE:132:LEU:HA	1.89	0.42
3:JF:6:HIS:HA	3:JF:134:GLN:OE1	2.20	0.42
3:JF:350:LYS:NZ	2:JG:181:VAL:HG13	2.29	0.42
2:JG:50:ASN:HA	2:JG:53:PHE:O	2.20	0.42
2:JG:326:LYS:HE3	3:JH:212:PHE:CZ	2.55	0.42
3:JH:69:GLU:HA	3:JH:70:PRO:HD3	1.87	0.42
14:K2:194:LYS:HZ3	14:K3:16:VAL:HA	1.85	0.42
14:K3:393:LEU:HG	14:K3:394:ASN:N	2.34	0.42
14:K3:399:ARG:O	14:K3:402:GLN:HB2	2.20	0.42
3:KD:355:ASP:N	3:KD:355:ASP:OD1	2.49	0.42
2:KE:90:GLU:OE1	2:KE:90:GLU:N	2.53	0.42
2:KE:438:ASP:C	3:KF:391:ARG:HH22	2.22	0.42
2:KG:120:ASP:OD1	2:KG:123:ARG:NH1	2.53	0.42
2:KG:132:LEU:HD21	2:KG:135:PHE:CZ	2.54	0.42
2:KG:161:TYR:HB3	2:KG:164:LYS:HZ2	1.85	0.42
2:KG:244:PHE:CE2	2:KG:358:GLN:HG2	2.55	0.42
2:KG:425:LEU:O	2:KG:429:GLU:OE1	2.37	0.42
3:KH:28:HIS:HA	3:KH:43:GLN:OE1	2.20	0.42
3:KH:290:THR:HG21	3:KH:329:GLN:HB3	2.02	0.42
3:KH:380:ARG:O	3:KH:383:GLU:HG3	2.20	0.42
15:L3:85:LYS:HD3	2:LI:264:ARG:HA	2.02	0.42
3:LD:113:VAL:HA	3:LD:116:VAL:HG22	2.01	0.42
3:LD:344:TRP:HA	2:LE:401:LYS:HE2	2.01	0.42
2:LE:236:SER:CA	2:LE:243:ARG:HH12	2.30	0.42
3:LF:35:THR:HG22	3:LF:58:LYS:HE3	2.02	0.42
2:LG:88:HIS:HA	2:LG:89:PRO:HD3	1.89	0.42
2:LG:216:ASN:HD21	2:LG:275:VAL:HG23	1.84	0.42
2:LG:285:GLN:HE22	2:LG:287:SER:HB3	1.85	0.42
2:LG:326:LYS:HD2	3:LH:208:TYR:CD1	2.55	0.42
3:LH:404:ASP:OD1	3:LH:404:ASP:N	2.50	0.42
2:LI:188:ILE:HG13	2:LI:421:ALA:HB1	2.02	0.42
2:LI:422:ARG:HD2	2:LI:423:GLU:N	2.35	0.42
2:ME:283:HIS:CE1	2:ME:284:GLU:OE2	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:31:ASP:CG	3:MF:35:THR:H	2.22	0.42
3:MH:167:PHE:CE2	3:MH:200:TYR:CD2	3.08	0.42
3:MH:255:VAL:HA	2:MI:407:TRP:CE2	2.55	0.42
3:MH:285:THR:O	3:MH:288:GLU:HG3	2.20	0.42
3:MH:286:VAL:HG21	3:MH:325:GLU:HG3	2.01	0.42
2:MI:162:GLY:C	2:MI:163:LYS:HD3	2.40	0.42
3:ND:11:GLN:HG3	25:ND:501:GTP:PA	2.60	0.42
2:NE:232:GLY:HA2	2:NE:235:VAL:HG12	2.02	0.42
2:NE:245:ASP:HB2	2:NE:357:TYR:HE2	1.85	0.42
2:NG:9:VAL:HG22	2:NG:146:GLY:HA2	2.02	0.42
2:NG:246:GLY:N	2:NG:249:ASN:OD1	2.53	0.42
2:NG:408:TYR:HA	2:NG:411:GLU:HG3	2.00	0.42
3:NH:11:GLN:HG3	25:NH:501:GTP:PA	2.59	0.42
3:NH:86:ARG:NE	3:NH:86:ARG:HA	2.35	0.42
3:NH:357:PRO:HB3	3:NH:362:LYS:HA	2.02	0.42
2:NI:229:ARG:HH12	2:NI:233:GLN:HB3	1.83	0.42
18:O2:75:PRO:HA	18:O2:95:TRP:CE2	2.55	0.42
3:OD:5:VAL:HB	3:OD:133:PHE:CD1	2.54	0.42
3:OD:149:THR:HG21	3:OD:188:SER:HA	2.02	0.42
3:OD:174:LYS:HG3	3:OD:175:VAL:HG12	2.02	0.42
3:OD:198:GLU:HA	3:OD:266:PHE:CE2	2.55	0.42
3:OD:267:MET:HA	3:OD:268:PRO:HD3	1.80	0.42
2:OE:36:MET:N	2:OE:36:MET:SD	2.93	0.42
3:OF:46:ARG:NE	3:OF:240:LEU:O	2.46	0.42
2:OG:273:ALA:HB1	2:OG:291:ILE:HB	2.02	0.42
2:OG:288:VAL:O	2:OG:292:THR:OG1	2.35	0.42
3:OH:185:ALA:O	3:OH:189:VAL:HG22	2.20	0.42
3:OH:318:ARG:HG3	3:OH:354:CYS:SG	2.60	0.42
2:OI:265:ILE:HD12	2:OI:432:TYR:CE1	2.54	0.42
19:P1:16:LEU:HD12	19:P1:613:ARG:O	2.20	0.42
19:P1:116:ALA:HB3	19:P1:129:LEU:HB3	2.01	0.42
19:P1:188:ASP:HB2	19:P1:195:TRP:HE1	1.85	0.42
19:P1:360:HIS:HE1	19:P1:362:MET:HB2	1.83	0.42
19:P1:383:MET:HB3	19:P1:429:CYS:SG	2.59	0.42
19:P1:571:VAL:HG12	19:P1:581:HIS:HB2	2.02	0.42
19:P1:573:ASP:HB3	19:P1:576:GLU:HB2	2.01	0.42
2:PE:53:PHE:CB	2:PE:61:HIS:HB3	2.50	0.42
2:PE:349:THR:HG21	3:PF:176:SER:OG	2.20	0.42
2:PG:2:ARG:NH1	2:PG:249:ASN:OD1	2.47	0.42
2:PG:3:GLU:CD	2:PG:131:GLY:H	2.23	0.42
2:PG:333:ALA:O	2:PG:337:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:41:ASP:N	3:PH:41:ASP:OD1	2.52	0.42
3:PH:101:TRP:O	3:PH:105:HIS:HB2	2.19	0.42
2:PI:137:ILE:HG21	2:PI:154:MET:HE1	2.02	0.42
20:Q1:1420:ILE:O	20:Q1:1420:ILE:HG13	2.20	0.42
20:Q1:1471:VAL:HG22	20:Q1:1505:ILE:HG22	2.01	0.42
3:QF:171:PRO:HG3	3:QF:181:GLU:OE2	2.20	0.42
3:QH:52:ASN:CG	3:QH:62:ARG:HH11	2.23	0.42
3:QH:119:VAL:HA	3:QH:122:LYS:HE2	2.01	0.42
2:QI:4:CYS:SG	2:QI:134:GLY:N	2.93	0.42
2:RE:352:LYS:HA	3:RF:177:ASP:OD1	2.20	0.42
2:RG:93:ILE:HG13	2:RG:118:VAL:HG12	2.00	0.42
2:RG:420:GLU:HA	2:RG:423:GLU:OE2	2.20	0.42
3:RH:285:THR:O	3:RH:289:LEU:HG	2.20	0.42
2:RI:3:GLU:N	2:RI:133:GLN:OE1	2.52	0.42
2:RI:49:PHE:HE2	2:RI:55:GLU:H	1.66	0.42
2:RI:132:LEU:O	2:RI:164:LYS:HD3	2.20	0.42
2:RI:139:HIS:CE1	2:RI:168:GLU:HB3	2.55	0.42
2:RI:326:LYS:HA	3:RJ:208:TYR:HE2	1.84	0.42
3:RJ:60:VAL:HA	3:RJ:61:PRO:HD3	1.95	0.42
3:SF:74:ASP:HA	3:SF:77:ARG:HE	1.85	0.42
3:SF:294:PHE:HZ	3:SF:337:ASN:HD21	1.68	0.42
2:SG:338:LYS:HZ2	2:SG:340:THR:H	1.68	0.42
2:SI:30:ILE:HG13	2:SI:53:PHE:CZ	2.54	0.42
2:SI:232:GLY:HA2	2:SI:235:VAL:HG12	2.02	0.42
3:SJ:69:GLU:O	3:SJ:73:MET:HE1	2.20	0.42
2:TG:169:PHE:HE2	2:TG:202:PHE:HD2	1.67	0.42
3:TH:232:THR:HA	3:TH:270:PHE:CD1	2.55	0.42
3:TH:323:MET:N	3:TH:323:MET:SD	2.92	0.42
3:UD:285:THR:O	3:UD:288:GLU:HG3	2.20	0.42
3:UD:316:VAL:O	3:UD:365:ALA:HA	2.19	0.42
2:UE:327:ASP:OD1	2:UE:328:VAL:N	2.52	0.42
2:UG:175:PRO:HD2	2:UG:207:GLU:OE1	2.20	0.42
3:UH:162:ARG:HA	3:UH:162:ARG:HD3	1.81	0.42
3:UH:325:GLU:O	3:UH:329:GLN:HG2	2.20	0.42
3:VD:114:ASP:OD1	3:VD:115:SER:N	2.45	0.42
3:VD:372:THR:CG2	3:VD:426:GLN:HG2	2.43	0.42
2:VE:2:ARG:CZ	2:VE:242:LEU:HA	2.50	0.42
2:VE:168:GLU:O	2:VE:201:ALA:HA	2.19	0.42
2:VE:185:TYR:HD1	2:VE:395:PHE:CE2	2.38	0.42
3:VF:325:GLU:HA	3:VF:328:GLU:OE2	2.20	0.42
2:VG:211:ASP:O	2:VG:214:ARG:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:52:ASN:N	3:VH:60:VAL:O	2.46	0.42
2:WE:280:LYS:HA	2:WE:283:HIS:CE1	2.55	0.42
2:WE:326:LYS:HA	2:WE:329:ASN:ND2	2.35	0.42
2:WE:346:TRP:NE1	3:WF:391:ARG:NH1	2.68	0.42
3:WF:328:GLU:OE1	3:WF:332:ASN:ND2	2.52	0.42
2:WG:150:ALA:HA	2:WG:153:LEU:HG	2.02	0.42
2:WG:189:LEU:HA	2:WG:192:HIS:ND1	2.34	0.42
2:WG:263:PRO:HB2	2:WG:264:ARG:NH1	2.35	0.42
3:WH:311:LEU:HD23	3:WH:370:ASN:ND2	2.35	0.42
2:WI:2:ARG:NH1	2:WI:241:SER:O	2.53	0.42
2:WI:3:GLU:CD	2:WI:132:LEU:H	2.23	0.42
2:WI:109:THR:OG1	2:WI:110:ILE:HG12	2.20	0.42
2:WI:425:LEU:HA	2:WI:428:LEU:HG	2.01	0.42
22:XC:90:GLU:HG3	22:XC:104:ARG:HD2	2.01	0.42
22:XC:94:LEU:HD11	22:XC:98:ASN:HA	2.01	0.42
22:XD:102:ARG:HB2	22:XD:118:ILE:HB	2.02	0.42
23:XJ:152:THR:O	23:XJ:156:LEU:HG	2.18	0.42
23:XL:82:VAL:HG12	23:XL:83:GLU:N	2.34	0.42
23:XL:237:SER:OG	23:XL:240:LEU:HD23	2.19	0.42
24:YI:94:ASN:HA	24:YI:97:LEU:HD12	2.01	0.42
24:YI:143:ILE:CG2	24:YI:147:PHE:HE2	2.33	0.42
24:YJ:110:LEU:HD23	24:YJ:140:LEU:HD22	2.02	0.42
24:YN:152:ILE:HD12	24:YN:155:SER:HB2	2.01	0.42
24:YN:163:LEU:HD23	24:YN:163:LEU:HA	1.91	0.42
2:AE:202:PHE:HD1	2:AE:268:PRO:HD2	1.83	0.41
3:AF:73:MET:HB3	3:AF:73:MET:HE2	1.62	0.41
2:AG:230:LEU:O	2:AG:233:GLN:HG3	2.20	0.41
3:AH:246:LEU:HB2	3:AH:352:ALA:HB1	2.02	0.41
2:AI:188:ILE:O	2:AI:191:THR:OG1	2.34	0.41
2:AI:274:PRO:HG3	2:AI:374:ALA:HA	2.02	0.41
4:B2:281:TRP:HE1	4:B2:285:ASN:HD21	1.66	0.41
4:B3:94:GLN:OE1	7:E2:114:ARG:NH2	2.46	0.41
4:B8:315:HIS:O	4:B8:318:LEU:HG	2.20	0.41
2:BE:408:TYR:O	2:BE:411:GLU:HG3	2.20	0.41
2:BG:252:LEU:HD12	2:BG:253:THR:N	2.35	0.41
2:BG:285:GLN:NE2	2:BG:286:LEU:O	2.52	0.41
3:BH:180:VAL:HG13	3:BH:184:ASN:OD1	2.20	0.41
2:BI:30:ILE:CD1	2:BI:36:MET:HE3	2.50	0.41
2:BI:172:TYR:CD1	2:BI:173:PRO:HD2	2.55	0.41
2:BI:192:HIS:HA	2:BI:195:LEU:HD23	2.01	0.41
2:BI:391:LEU:HD23	2:BI:391:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C4:442:GLU:HA	5:C4:445:LEU:HD12	2.02	0.41
5:C8:425:TYR:O	5:C8:429:GLU:OE1	2.38	0.41
3:CF:279:GLN:HG2	9:G1:307:ASN:O	2.20	0.41
2:CG:314:ALA:HB3	2:CG:380:ASN:HB3	2.02	0.41
2:CG:333:ALA:HA	2:CG:336:LYS:HD2	2.02	0.41
2:CG:388:TRP:CD1	2:CG:388:TRP:N	2.88	0.41
3:CH:190:HIS:NE2	3:CH:414:ASN:OD1	2.53	0.41
3:CH:407:GLU:HA	3:CH:410:GLU:CD	2.39	0.41
2:CI:261:PRO:HA	3:CJ:394:PHE:CE1	2.55	0.41
2:CI:330:ALA:O	2:CI:334:THR:HG23	2.19	0.41
3:CJ:320:ARG:HA	3:CJ:320:ARG:NH1	2.35	0.41
6:D4:326:LEU:O	6:D4:330:THR:HG23	2.19	0.41
6:D4:346:LYS:O	6:D4:349:PRO:HD2	2.20	0.41
6:D7:316:GLN:HG2	6:D7:317:LYS:N	2.27	0.41
3:DF:48:ASN:OD1	11:H4:288:PHE:HB3	2.20	0.41
3:DF:130:LEU:HD13	3:DF:133:PHE:CE1	2.54	0.41
3:DF:355:ASP:N	3:DF:355:ASP:OD1	2.48	0.41
3:DH:46:ARG:HA	3:DH:46:ARG:HD3	1.85	0.41
3:DH:405:GLU:OE1	3:DH:405:GLU:N	2.43	0.41
7:E2:9:THR:OG1	7:E2:145:ARG:NE	2.52	0.41
2:EE:27:GLU:HB3	2:EE:361:THR:HG21	2.02	0.41
2:EE:102:ASN:HB3	2:EE:105:ARG:HB2	2.01	0.41
2:EE:149:PHE:O	2:EE:153:LEU:HD23	2.20	0.41
2:EE:311:LYS:NZ	2:EE:342:GLN:O	2.42	0.41
3:EF:28:HIS:O	3:EF:43:GLN:NE2	2.53	0.41
2:EG:88:HIS:HB3	2:EG:91:GLN:CB	2.50	0.41
8:F2:430:LEU:O	8:F2:434:LEU:HD23	2.20	0.41
8:F3:218:GLU:N	8:F3:335:GLN:OE1	2.53	0.41
8:F6:213:LYS:O	8:F6:217:ARG:HG2	2.19	0.41
2:FE:207:GLU:HB2	2:FE:304:LYS:NZ	2.34	0.41
10:G5:457:TYR:CD2	10:G5:483:ARG:HG3	2.55	0.41
10:G5:491:GLN:HB3	10:G5:495:LYS:HE3	2.01	0.41
3:GD:324:LYS:HB3	3:GD:324:LYS:HE3	1.70	0.41
2:GE:54:SER:OG	2:GE:64:ARG:NH2	2.53	0.41
3:GF:270:PHE:HD2	3:GF:273:LEU:HD11	1.85	0.41
2:GG:55:GLU:OE1	2:GG:61:HIS:NE2	2.53	0.41
3:GH:41:ASP:OD1	3:GH:42:LEU:N	2.53	0.41
3:GH:117:LEU:HB3	3:GH:121:ARG:HH22	1.84	0.41
3:HD:192:LEU:O	3:HD:196:THR:HG22	2.20	0.41
2:HE:317:MET:HE3	2:HE:319:TYR:CE1	2.55	0.41
3:HH:213:ARG:O	3:HH:216:LYS:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:2:ARG:HD3	2:IE:242:LEU:O	2.20	0.41
2:IE:204:VAL:HG23	2:IE:302:MET:HB3	2.02	0.41
2:IE:220:GLU:N	2:IE:220:GLU:OE1	2.53	0.41
2:IE:326:LYS:NZ	3:IF:211:CYS:HB3	2.35	0.41
2:IE:417:GLU:OE1	2:IE:417:GLU:N	2.42	0.41
2:IG:13:GLY:O	2:IG:16:ILE:HG12	2.20	0.41
2:IG:280:LYS:HA	2:IG:280:LYS:HD2	1.86	0.41
3:IH:28:HIS:CE1	3:IH:241:ARG:HD3	2.55	0.41
13:J3:109:VAL:HG12	13:J3:109:VAL:O	2.20	0.41
2:JE:2:ARG:CZ	2:JE:242:LEU:HA	2.50	0.41
3:JF:55:THR:O	3:JF:58:LYS:HG2	2.19	0.41
3:JF:249:ASP:OD2	3:JF:251:ARG:HB3	2.19	0.41
14:K3:102:PRO:HA	14:K3:103:PRO:HD3	1.91	0.41
14:K3:382:LEU:HA	2:LI:339:ARG:HG2	2.00	0.41
14:K4:151:LEU:CD2	14:K4:227:LEU:HD12	2.48	0.41
3:KD:68:LEU:HB3	3:KD:95:SER:O	2.21	0.41
2:KE:305:CYS:HB2	2:KE:383:ALA:HB1	2.02	0.41
3:KF:19:LYS:HZ1	3:KF:227:HIS:HB2	1.85	0.41
2:KG:368:LEU:H	2:KG:368:LEU:HD23	1.85	0.41
3:KH:217:LEU:O	3:KH:219:THR:N	2.53	0.41
3:KH:324:LYS:HB3	3:KH:324:LYS:HE3	1.79	0.41
2:KI:196:GLU:HG2	2:KI:197:HIS:ND1	2.35	0.41
2:KI:331:ALA:O	2:KI:335:ILE:HG12	2.20	0.41
15:L2:173:ASP:HA	15:L2:176:ILE:HG22	2.01	0.41
15:L3:222:PRO:HB2	15:L3:226:ARG:NH2	2.35	0.41
3:LD:186:THR:HG21	3:LD:408:PHE:HE1	1.84	0.41
3:LD:296:ALA:O	3:LD:297:LYS:HE2	2.19	0.41
3:LD:309:ARG:N	3:LD:372:THR:OG1	2.34	0.41
3:LF:173:PRO:HA	3:LF:380:ARG:CZ	2.50	0.41
2:LG:10:GLY:C	2:LG:12:ALA:N	2.73	0.41
2:LG:132:LEU:HD11	18:O2:22:TRP:NE1	2.35	0.41
3:LH:115:SER:O	3:LH:119:VAL:HG23	2.20	0.41
3:LH:356:ILE:HA	3:LH:357:PRO:HD3	1.86	0.41
3:LH:374:ILE:HG22	3:LH:378:PHE:HD2	1.85	0.41
2:LI:320:ARG:HG2	2:LI:358:GLN:O	2.20	0.41
2:ME:297:GLU:CD	2:ME:299:ALA:H	2.23	0.41
2:MG:6:SER:HB3	2:MG:65:ALA:HB2	2.02	0.41
3:MH:105:HIS:O	3:MH:150:LEU:HD11	2.20	0.41
3:ND:305:PRO:HA	3:ND:373:ALA:HB2	2.02	0.41
2:NE:107:HIS:HD2	2:NE:151:SER:OG	2.02	0.41
3:NF:249:ASP:HB3	3:NF:252:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:11:GLN:HG2	25:NG:501:GTP:O1B	2.20	0.41
2:NG:192:HIS:HA	2:NG:195:LEU:HD23	2.02	0.41
3:NH:293:MET:CE	3:NH:367:PHE:HB3	2.50	0.41
3:NH:324:LYS:HE2	2:NI:222:PRO:HD2	2.02	0.41
2:NI:99:ALA:HB3	2:NI:144:GLY:O	2.20	0.41
3:OD:24:ILE:HG23	3:OD:28:HIS:CD2	2.55	0.41
3:OD:390:ARG:HA	3:OD:390:ARG:HD2	1.83	0.41
3:OF:2:ARG:HD3	3:OF:131:GLN:NE2	2.35	0.41
3:OF:11:GLN:HE21	25:OF:501:GTP:H3'	1.85	0.41
3:OF:28:HIS:HD1	3:OF:43:GLN:HB2	1.84	0.41
3:OF:32:PRO:O	3:OF:83:GLN:NE2	2.52	0.41
3:OF:378:PHE:HA	3:OF:381:ILE:HG22	2.02	0.41
2:OG:273:ALA:HB2	2:OG:295:CYS:HB3	2.02	0.41
2:OG:280:LYS:HZ1	2:OG:284:GLU:CD	2.24	0.41
2:OI:192:HIS:NE2	2:OI:420:GLU:OE2	2.53	0.41
2:OI:329:ASN:HA	2:OI:332:ILE:HG12	2.02	0.41
19:P1:315:TYR:CZ	19:P1:326:LEU:HD13	2.54	0.41
19:P1:444:TRP:CD1	19:P1:453:LEU:HA	2.55	0.41
2:PE:273:ALA:O	2:PE:275:VAL:N	2.52	0.41
2:PE:321:GLY:HA3	2:PE:372:GLN:O	2.20	0.41
3:PF:117:LEU:HA	3:PF:120:VAL:HG22	2.01	0.41
2:PG:272:TYR:CE1	2:PG:274:PRO:HG2	2.55	0.41
3:PH:2:ARG:HA	3:PH:129:CYS:O	2.20	0.41
3:PH:15:GLN:NE2	3:PH:222:TYR:HE1	2.18	0.41
3:PH:211:CYS:HA	3:PH:215:LEU:HD13	2.02	0.41
3:PH:421:GLU:HG2	3:PH:425:TYR:HE2	1.85	0.41
2:PI:174:ALA:HB1	2:PI:207:GLU:OE2	2.20	0.41
2:PI:419:SER:O	2:PI:422:ARG:HG2	2.20	0.41
20:Q1:1352:THR:HG22	20:Q1:1353:ASP:H	1.84	0.41
20:Q2:1366:LEU:HD12	20:Q2:1369:LYS:HZ1	1.85	0.41
2:QE:68:VAL:HG12	2:QE:93:ILE:HB	2.02	0.41
3:QF:316:VAL:O	3:QF:365:ALA:HA	2.20	0.41
2:QG:172:TYR:CD1	2:QG:173:PRO:HD2	2.55	0.41
2:QG:395:PHE:HD2	2:QG:422:ARG:NH2	2.17	0.41
3:QH:203:ASP:OD2	3:QH:205:GLU:HB2	2.20	0.41
3:QH:421:GLU:HA	3:QH:424:GLN:HG3	2.01	0.41
2:QI:185:TYR:HB3	2:QI:418:PHE:CZ	2.54	0.41
2:RG:47:ASP:HB3	2:RG:49:PHE:CE2	2.54	0.41
2:RG:338:LYS:HZ3	2:RG:339:ARG:H	1.67	0.41
3:RJ:11:GLN:HG3	25:RJ:501:GTP:PA	2.60	0.41
3:RJ:77:ARG:HH22	3:RJ:78:SER:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:105:HIS:HD2	3:RJ:106:TYR:CE2	2.37	0.41
3:RJ:251:ARG:O	3:RJ:255:VAL:HG22	2.20	0.41
2:SE:134:GLY:HA3	2:SE:165:SER:OG	2.20	0.41
2:SE:136:LEU:HD23	2:SE:167:LEU:HB2	2.02	0.41
2:SE:313:MET:N	2:SE:380:ASN:O	2.43	0.41
2:SE:331:ALA:O	2:SE:334:THR:OG1	2.24	0.41
3:SF:345:ILE:HD11	2:SG:181:VAL:CG1	2.46	0.41
2:SG:32:PRO:HA	2:SG:86:LEU:HD11	2.00	0.41
3:SH:100:ASN:HB3	3:SH:103:LYS:HG2	2.02	0.41
3:SH:382:SER:HA	3:SH:385:PHE:HD2	1.81	0.41
2:SI:234:ILE:O	2:SI:238:ILE:HG23	2.21	0.41
3:SJ:172:SER:OG	3:SJ:174:LYS:HG2	2.20	0.41
3:SJ:291:GLN:O	3:SJ:294:PHE:C	2.58	0.41
3:TF:263:LEU:HD13	3:TF:422:TYR:OH	2.20	0.41
2:TG:3:GLU:H	2:TG:133:GLN:NE2	2.15	0.41
3:TH:395:LEU:O	3:TH:399:THR:HG23	2.20	0.41
2:TI:6:SER:OG	2:TI:8:HIS:NE2	2.48	0.41
2:TI:325:PRO:HA	2:TI:328:VAL:HB	2.02	0.41
3:UD:263:LEU:HD12	3:UD:370:ASN:HD21	1.84	0.41
2:UE:88:HIS:CE1	2:UE:121:ARG:NH2	2.88	0.41
2:UE:185:TYR:O	2:UE:188:ILE:HG22	2.20	0.41
2:UE:326:LYS:HE3	3:UF:212:PHE:CE2	2.55	0.41
2:UG:319:TYR:HE2	2:UG:328:VAL:HG22	1.84	0.41
3:UH:119:VAL:HA	3:UH:122:LYS:HE2	2.01	0.41
3:UH:411:ALA:HA	3:UH:414:ASN:HD22	1.85	0.41
2:VE:306:ASP:OD2	2:VE:309:HIS:ND1	2.53	0.41
3:VF:202:ILE:HD12	3:VF:300:MET:HG2	2.01	0.41
2:VG:19:ALA:O	2:VG:23:LEU:HG	2.20	0.41
2:VG:121:ARG:HA	2:VG:124:LYS:CG	2.50	0.41
2:VG:121:ARG:O	2:VG:124:LYS:HG3	2.20	0.41
2:VG:292:THR:CG2	2:VG:335:ILE:HD11	2.49	0.41
2:VG:403:ALA:HB1	2:VG:404:PHE:HD1	1.85	0.41
3:VH:11:GLN:HG3	25:VH:501:GTP:O5'	2.20	0.41
3:VH:28:HIS:HA	3:VH:43:GLN:OE1	2.19	0.41
3:VH:204:ASN:OD1	3:VH:205:GLU:N	2.53	0.41
2:WE:97:GLU:N	2:WE:97:GLU:OE1	2.53	0.41
2:WE:361:THR:OG1	2:WE:362:VAL:N	2.53	0.41
3:WF:322:SER:N	3:WF:325:GLU:OE2	2.42	0.41
3:WF:324:LYS:HE3	3:WF:324:LYS:HB3	1.88	0.41
2:WG:7:ILE:HD13	2:WG:66:VAL:HB	2.01	0.41
2:WG:141:PHE:CE2	2:WG:170:ALA:HB3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:185:TYR:O	2:WG:188:ILE:HG22	2.20	0.41
2:WG:217:LEU:HB3	2:WG:219:ILE:HG12	2.02	0.41
2:WG:234:ILE:O	2:WG:237:SER:OG	2.38	0.41
3:WH:128:ASP:OD1	3:WH:129:CYS:N	2.50	0.41
2:WI:3:GLU:H	2:WI:133:GLN:HE22	1.68	0.41
23:XJ:178:LEU:O	23:XJ:181:LEU:N	2.53	0.41
23:XJ:187:MET:N	23:XJ:187:MET:SD	2.93	0.41
23:XK:65:PHE:HB3	23:XK:67:ILE:CD1	2.50	0.41
23:XL:180:ILE:HG12	23:XL:184:PHE:CZ	2.55	0.41
24:YJ:9:ARG:HA	24:YJ:12:GLU:OE1	2.20	0.41
24:YM:105:SER:HB2	24:YM:108:ASN:HD22	1.85	0.41
24:YN:90:THR:HG23	24:YN:162:VAL:HG11	2.02	0.41
2:AE:30:ILE:HA	2:AE:36:MET:HE1	2.02	0.41
2:AE:311:LYS:NZ	2:AE:342:GLN:HB3	2.35	0.41
3:AF:36:TYR:CZ	3:AF:38:GLY:HA2	2.55	0.41
2:AG:192:HIS:CE1	2:AG:193:THR:HG23	2.55	0.41
3:AH:420:SER:O	3:AH:424:GLN:HG3	2.19	0.41
2:AI:121:ARG:HG2	2:AI:121:ARG:H	1.71	0.41
2:AI:132:LEU:HD21	2:AI:135:PHE:CZ	2.54	0.41
4:B2:324:ARG:HH12	4:B2:330:CYS:H	1.68	0.41
4:B3:93:ALA:O	4:B3:97:GLU:OE1	2.38	0.41
4:B3:193:ASN:OD1	4:B3:194:LEU:HD23	2.20	0.41
4:B7:132:PRO:CB	4:B7:268:ARG:HH22	2.33	0.41
4:B7:392:ASP:O	4:B7:395:ARG:HG2	2.19	0.41
4:B8:125:ASP:CG	4:B8:126:ILE:H	2.22	0.41
2:BE:352:LYS:HA	2:BE:352:LYS:HD2	1.80	0.41
3:BF:176:SER:O	3:BF:178:THR:N	2.53	0.41
2:BG:80:THR:HG21	11:H3:9:LEU:HD21	2.02	0.41
2:BG:234:ILE:O	2:BG:237:SER:OG	2.32	0.41
2:BG:304:LYS:HD2	2:BG:304:LYS:H	1.85	0.41
2:BG:338:LYS:NZ	2:BG:340:THR:HG23	2.35	0.41
2:BI:206:ASN:OD1	2:BI:206:ASN:N	2.54	0.41
3:CF:148:GLY:HA2	3:CF:151:LEU:HG	2.01	0.41
3:CJ:267:MET:HA	3:CJ:268:PRO:HD3	1.84	0.41
3:CJ:325:GLU:HG2	3:CJ:326:VAL:N	2.35	0.41
3:CJ:390:ARG:HG3	3:CJ:391:ARG:NE	2.35	0.41
6:D9:234:GLU:OE1	6:D9:234:GLU:N	2.49	0.41
2:DE:287:SER:N	2:DE:290:GLU:OE2	2.53	0.41
2:DE:311:LYS:NZ	2:DE:342:GLN:HB3	2.35	0.41
2:DE:317:MET:HE3	2:DE:319:TYR:CE1	2.53	0.41
3:DF:40:SER:HB2	3:DF:43:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:180:VAL:HG13	3:DF:184:ASN:OD1	2.20	0.41
3:DF:284:LEU:HA	3:DF:288:GLU:OE2	2.19	0.41
3:DF:371:SER:HG	3:DF:372:THR:H	1.69	0.41
2:DG:195:LEU:HD22	2:DG:428:LEU:HD11	2.01	0.41
2:DG:252:LEU:HD12	2:DG:253:THR:N	2.36	0.41
3:DH:3:GLU:HA	3:DH:49:VAL:HG23	2.01	0.41
3:ED:30:ILE:HG13	3:ED:36:TYR:CD1	2.55	0.41
3:ED:289:LEU:O	3:ED:293:MET:HB2	2.21	0.41
2:EE:40:LYS:HE2	2:EE:40:LYS:HB2	1.89	0.41
3:EF:222:TYR:CG	25:EF:501:GTP:C6	3.09	0.41
3:EF:324:LYS:HB3	3:EF:324:LYS:HE3	1.84	0.41
2:EG:135:PHE:CD2	2:EG:157:LEU:HD21	2.55	0.41
3:EH:154:LYS:HA	3:EH:154:LYS:HD3	1.84	0.41
8:F2:250:LEU:HA	8:F2:250:LEU:HD23	1.78	0.41
8:F2:377:LEU:O	8:F2:380:ARG:HG2	2.20	0.41
8:F3:87:PHE:CE1	8:F3:89:ARG:HB2	2.55	0.41
8:F6:222:LEU:O	8:F6:225:CYS:HB2	2.19	0.41
8:F7:370:GLN:O	8:F7:374:THR:HG23	2.20	0.41
3:FD:117:LEU:HA	3:FD:120:VAL:HG22	2.00	0.41
2:FE:319:TYR:CD2	2:FE:323:VAL:HG11	2.50	0.41
2:FG:28:HIS:HE1	2:FG:243:ARG:HD2	1.84	0.41
2:FG:161:TYR:HB3	2:FG:164:LYS:HZ3	1.86	0.41
2:FG:165:SER:C	2:FG:166:LYS:HD3	2.41	0.41
3:FH:302:ALA:HB1	3:FH:377:LEU:HD21	2.01	0.41
9:G1:80:ALA:CB	9:G1:84:GLU:H	2.30	0.41
9:G1:227:SER:OG	9:G1:228:ASP:N	2.53	0.41
9:G1:371:LYS:C	9:G1:372:LYS:HD3	2.40	0.41
9:G1:513:LEU:HD22	9:G1:535:ILE:HD11	2.02	0.41
2:GE:224:TYR:C	2:GE:227:LEU:H	2.24	0.41
3:GF:130:LEU:HB2	3:GF:162:ARG:HH11	1.85	0.41
3:GF:139:LEU:N	3:GF:168:SER:OG	2.53	0.41
3:GF:324:LYS:HG2	3:GF:325:GLU:OE1	2.20	0.41
2:GG:187:SER:O	2:GG:190:THR:OG1	2.31	0.41
2:GG:330:ALA:O	2:GG:334:THR:HG23	2.20	0.41
3:GH:376:GLU:H	3:GH:376:GLU:CD	2.23	0.41
2:GI:304:LYS:HD2	2:GI:304:LYS:N	2.35	0.41
2:GI:391:LEU:HB3	2:GI:395:PHE:HE2	1.84	0.41
3:HD:6:HIS:ND1	3:HD:134:GLN:HG2	2.34	0.41
2:HE:205:ASP:OD2	2:HE:304:LYS:NZ	2.53	0.41
3:HF:105:HIS:HB3	3:HF:106:TYR:CD1	2.55	0.41
3:HF:330:MET:HA	3:HF:333:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:101:TRP:CD1	3:HH:146:GLY:HA2	2.55	0.41
3:HH:105:HIS:CE1	3:HH:149:THR:HG1	2.32	0.41
2:HI:1:MET:O	2:HI:133:GLN:NE2	2.53	0.41
2:IE:15:GLN:HG3	2:IE:228:ASN:HD21	1.85	0.41
2:IE:19:ALA:HA	2:IE:22:GLU:OE1	2.20	0.41
2:IG:315:CYS:O	2:IG:351:PHE:HA	2.20	0.41
3:IH:311:LEU:HG	3:IH:312:THR:HG23	2.02	0.41
13:J3:114:THR:CG2	13:J3:152:LEU:HD21	2.50	0.41
3:JD:12:CYS:SG	3:JD:138:SER:HB2	2.60	0.41
3:JD:261:PRO:HD2	3:JD:262:ARG:NH1	2.34	0.41
3:JD:267:MET:HA	3:JD:268:PRO:HD3	1.78	0.41
2:JE:116:ASP:OD1	2:JE:117:LEU:HD12	2.20	0.41
3:JF:12:CYS:HA	25:JF:501:GTP:N2	2.34	0.41
3:JF:130:LEU:HD13	3:JF:133:PHE:CE1	2.55	0.41
3:JH:103:LYS:HD3	3:JH:401:GLU:HG2	2.03	0.41
3:JH:240:LEU:HD22	3:JH:248:ALA:HB1	2.01	0.41
2:KE:68:VAL:HG12	2:KE:93:ILE:HB	2.02	0.41
2:KE:160:ASP:OD1	2:KE:161:TYR:N	2.52	0.41
3:KF:217:LEU:O	3:KF:217:LEU:HD23	2.19	0.41
3:KF:267:MET:HG3	3:KF:369:GLY:O	2.20	0.41
3:KH:100:ASN:HB3	3:KH:103:LYS:HB2	2.01	0.41
3:KH:114:ASP:N	3:KH:114:ASP:OD1	2.53	0.41
2:KI:227:LEU:O	2:KI:230:LEU:HG	2.21	0.41
2:KI:414:GLU:HG2	2:KI:417:GLU:OE1	2.20	0.41
15:L2:226:ARG:O	15:L2:230:LEU:HG	2.20	0.41
15:L3:221:VAL:HA	15:L3:224:LYS:NZ	2.35	0.41
3:LD:206:ALA:HB3	3:LD:300:MET:O	2.20	0.41
2:LE:36:MET:HG2	2:LE:41:THR:OG1	2.20	0.41
2:LE:202:PHE:CD1	2:LE:268:PRO:HD2	2.55	0.41
3:LF:101:TRP:CE3	3:LF:187:LEU:HD13	2.55	0.41
2:LG:260:VAL:HA	2:LG:261:PRO:HD3	1.89	0.41
3:LH:292:GLN:HA	3:LH:295:ASP:OD2	2.19	0.41
2:LI:185:TYR:O	2:LI:188:ILE:HG22	2.20	0.41
2:LI:425:LEU:O	2:LI:429:GLU:OE1	2.38	0.41
3:MF:11:GLN:HE21	25:MF:501:GTP:H3'	1.84	0.41
3:MF:379:LYS:HB2	3:MF:379:LYS:HE3	1.80	0.41
2:MG:263:PRO:O	2:MG:264:ARG:HB2	2.19	0.41
3:MH:410:GLU:HG2	3:MH:411:ALA:N	2.34	0.41
2:MI:16:ILE:HG13	2:MI:17:GLY:N	2.35	0.41
3:ND:130:LEU:HB2	3:ND:162:ARG:HH11	1.84	0.41
3:ND:233:MET:O	3:ND:236:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:265:ILE:HD12	2:NG:432:TYR:CE1	2.55	0.41
2:NG:363:VAL:HG12	2:NG:368:LEU:HD22	2.02	0.41
2:NI:1:MET:SD	2:NI:50:ASN:ND2	2.93	0.41
2:NI:5:ILE:HB	2:NI:135:PHE:HD1	1.84	0.41
18:O2:38:TYR:CZ	20:Q2:1414:LEU:HD23	2.55	0.41
3:OD:117:LEU:HA	3:OD:120:VAL:HG22	2.01	0.41
3:OD:211:CYS:SG	3:OD:220:PRO:HG3	2.60	0.41
2:OG:47:ASP:H	2:OG:50:ASN:HB3	1.86	0.41
2:OG:302:MET:SD	2:OG:303:VAL:HG23	2.60	0.41
3:OH:8:GLN:NE2	3:OH:17:GLY:HA3	2.35	0.41
3:OH:101:TRP:CB	3:OH:184:ASN:HD22	2.32	0.41
2:OI:3:GLU:CD	2:OI:132:LEU:H	2.24	0.41
2:OI:312:TYR:HD1	2:OI:381:THR:HB	1.85	0.41
19:P1:360:HIS:ND1	19:P1:363:SER:OG	2.39	0.41
19:P1:530:GLU:HB3	19:P1:537:ILE:HD11	2.03	0.41
19:P2:14:LEU:HD22	19:P2:571:VAL:HG23	2.01	0.41
2:PE:292:THR:HA	2:PE:295:CYS:SG	2.60	0.41
3:PF:406:MET:O	3:PF:410:GLU:HG2	2.20	0.41
2:PG:320:ARG:HG2	2:PG:358:GLN:O	2.20	0.41
3:PH:156:ARG:HH11	3:PH:157:GLU:HB3	1.85	0.41
20:Q2:1418:MET:O	20:Q2:1418:MET:HG2	2.20	0.41
2:QE:34:GLY:O	2:QE:60:LYS:HA	2.19	0.41
2:QE:88:HIS:HB3	2:QE:91:GLN:CG	2.51	0.41
3:QF:91:VAL:HG11	3:QF:116:VAL:HG12	2.01	0.41
3:QF:117:LEU:HA	3:QF:120:VAL:HG22	2.02	0.41
3:QF:246:LEU:HB2	3:QF:352:ALA:HB1	2.03	0.41
3:QF:374:ILE:HD12	3:QF:374:ILE:H	1.85	0.41
2:QG:19:ALA:HA	2:QG:22:GLU:OE1	2.20	0.41
2:QG:21:TRP:CE3	2:QG:53:PHE:HE1	2.38	0.41
3:QH:14:ASN:HD22	3:QH:72:THR:HB	1.84	0.41
3:QH:240:LEU:HD22	3:QH:248:ALA:HB1	2.02	0.41
3:QH:392:LYS:HD2	3:QH:392:LYS:O	2.19	0.41
2:RE:433:GLU:O	2:RE:437:VAL:HG23	2.20	0.41
3:RF:374:ILE:HG22	3:RF:378:PHE:CD2	2.55	0.41
2:RG:6:SER:OG	2:RG:136:LEU:HD22	2.19	0.41
2:RG:202:PHE:CE1	2:RG:378:LEU:HD22	2.55	0.41
2:RG:433:GLU:HG2	2:RG:434:GLU:OE1	2.20	0.41
3:RH:17:GLY:HA2	3:RH:20:PHE:HB3	2.02	0.41
3:RH:224:ASP:O	3:RH:228:LEU:HG	2.20	0.41
2:RI:5:ILE:HB	2:RI:135:PHE:CE1	2.55	0.41
2:RI:152:LEU:HD13	2:RI:156:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RI:312:TYR:O	2:RI:344:VAL:HG13	2.20	0.41
2:RI:417:GLU:O	2:RI:420:GLU:HG2	2.19	0.41
3:RJ:40:SER:HB2	3:RJ:43:GLN:HG2	2.02	0.41
2:SE:265:ILE:HD12	2:SE:432:TYR:CE1	2.55	0.41
2:SE:314:ALA:O	2:SE:379:SER:HA	2.20	0.41
2:SG:217:LEU:HD12	2:SG:367:ASP:OD2	2.20	0.41
3:SH:375:GLN:H	3:SH:375:GLN:CD	2.23	0.41
2:SI:30:ILE:HG23	2:SI:36:MET:HE3	2.01	0.41
2:SI:231:ILE:O	2:SI:234:ILE:HB	2.20	0.41
2:SI:261:PRO:HA	3:SJ:394:PHE:CE1	2.55	0.41
2:SI:345:ASP:N	2:SI:345:ASP:OD1	2.52	0.41
2:SI:394:LYS:O	2:SI:397:LEU:HG	2.20	0.41
3:SJ:1:MET:HG3	3:SJ:2:ARG:N	2.28	0.41
3:TF:157:GLU:HG2	3:TF:158:GLU:N	2.35	0.41
3:TF:206:ALA:HB1	3:TF:300:MET:HA	2.01	0.41
3:TF:224:ASP:O	3:TF:227:HIS:HB3	2.20	0.41
2:TG:35:GLN:NE2	2:TG:59:GLY:HA3	2.36	0.41
2:TG:320:ARG:HD3	2:TG:360:PRO:HG3	2.02	0.41
2:TG:387:ALA:HA	2:TG:390:ARG:NH1	2.34	0.41
3:TH:315:ALA:O	3:TH:351:THR:HA	2.20	0.41
2:TI:53:PHE:HB3	2:TI:61:HIS:HB3	2.01	0.41
2:TI:383:ALA:O	2:TI:386:GLU:HG3	2.20	0.41
3:UH:267:MET:HA	3:UH:268:PRO:HD3	1.79	0.41
3:VD:213:ARG:O	3:VD:216:LYS:HE2	2.21	0.41
3:VF:31:ASP:OD2	3:VF:33:THR:OG1	2.38	0.41
3:VF:329:GLN:HA	3:VF:332:ASN:ND2	2.35	0.41
2:VG:137:ILE:HD13	2:VG:168:GLU:HG3	2.01	0.41
2:VG:315:CYS:HA	2:VG:379:SER:HA	2.01	0.41
3:VH:246:LEU:HD22	3:VH:353:VAL:O	2.20	0.41
2:WE:47:ASP:HB3	2:WE:49:PHE:CE2	2.55	0.41
2:WE:204:VAL:HG23	2:WE:302:MET:HG3	2.02	0.41
3:WF:118:ASP:HA	3:WF:121:ARG:HG2	2.02	0.41
3:WF:270:PHE:CD2	3:WF:273:LEU:HD21	2.54	0.41
3:WF:285:THR:O	3:WF:288:GLU:HG3	2.20	0.41
3:WF:350:LYS:HE3	2:WG:180:ALA:HA	2.02	0.41
2:WG:21:TRP:HA	2:WG:24:TYR:HB2	2.01	0.41
3:WH:3:GLU:HG3	3:WH:62:ARG:NH1	2.35	0.41
3:WH:256:ASN:HB3	3:WH:350:LYS:HE2	2.01	0.41
3:WH:322:SER:HB3	3:WH:325:GLU:OE1	2.20	0.41
2:WI:5:ILE:HD11	2:WI:129:CYS:SG	2.60	0.41
2:WI:112:LYS:HE2	2:WI:112:LYS:HB2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:135:PHE:CD2	2:WI:166:LYS:HG3	2.53	0.41
2:WI:404:PHE:O	2:WI:407:TRP:HD1	2.03	0.41
22:XD:37:ILE:HD12	22:XD:37:ILE:HA	1.90	0.41
23:XK:109:PHE:HE1	23:XK:113:ARG:HH11	1.66	0.41
24:YI:93:THR:HB	24:YI:151:TRP:NE1	2.35	0.41
24:YJ:80:CYS:HA	24:YJ:83:PHE:CD2	2.55	0.41
24:YJ:146:ASP:O	24:YJ:149:LYS:HG3	2.19	0.41
1:A3:206:ARG:NH1	1:A3:208:GLU:HA	2.35	0.41
2:AE:217:LEU:HD21	2:AE:275:VAL:HB	2.02	0.41
3:AF:164:MET:SD	3:AF:196:THR:HA	2.61	0.41
3:AF:245:GLN:H	3:AF:245:GLN:CD	2.21	0.41
3:AF:286:VAL:HA	3:AF:289:LEU:HB2	2.02	0.41
3:AH:114:ASP:OD1	3:AH:115:SER:N	2.46	0.41
3:AH:262:ARG:HH21	23:XK:231:MET:CE	2.33	0.41
2:AI:124:LYS:HA	2:AI:127:ASP:OD2	2.20	0.41
2:AI:136:LEU:HB3	2:AI:138:PHE:CE2	2.55	0.41
2:AI:415:GLU:OE1	2:AI:419:SER:OG	2.38	0.41
4:B3:413:ARG:HH22	6:D3:400:GLN:HA	1.85	0.41
4:B7:311:LEU:HD12	4:B7:345:LEU:HD23	2.03	0.41
2:BE:326:LYS:HE3	2:BE:326:LYS:HB3	1.85	0.41
3:BF:4:ILE:HB	3:BF:50:TYR:HE1	1.84	0.41
3:BF:197:ASP:OD1	3:BF:198:GLU:N	2.50	0.41
3:BF:312:THR:HA	3:BF:348:ASN:HB2	2.01	0.41
2:BI:311:LYS:HE3	2:BI:344:VAL:HG12	2.02	0.41
5:C2:290:VAL:O	5:C2:291:ASP:HB2	2.21	0.41
5:C3:202:ARG:HD3	5:C3:202:ARG:HA	1.72	0.41
5:C3:222:GLU:O	5:C3:226:ILE:HG12	2.20	0.41
5:C3:275:ARG:NH1	5:C3:276:ASN:O	2.54	0.41
5:C3:276:ASN:O	5:C3:277:THR:OG1	2.36	0.41
5:C7:183:ARG:O	5:C7:187:GLU:OE1	2.38	0.41
5:C8:319:ALA:O	5:C8:322:ARG:HG2	2.19	0.41
5:C8:387:LYS:O	5:C8:390:SER:OG	2.26	0.41
5:C8:412:CYS:SG	5:C8:413:ARG:N	2.93	0.41
3:CH:409:THR:O	3:CH:412:GLU:HG3	2.20	0.41
3:CJ:217:LEU:O	3:CJ:219:THR:N	2.52	0.41
3:CJ:218:THR:O	3:CJ:220:PRO:HD3	2.20	0.41
6:D3:222:TYR:OH	2:LG:37:PRO:HB3	2.20	0.41
6:D3:315:LEU:HD11	6:D3:423:LEU:HD12	2.03	0.41
6:D8:72:ASP:HA	6:D8:75:GLU:HG3	2.02	0.41
3:DD:302:ALA:HB1	3:DD:377:LEU:HD11	2.02	0.41
2:DE:89:PRO:HD2	2:EE:280:LYS:HZ2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:126:ALA:HA	2:DE:129:CYS:SG	2.60	0.41
2:DE:271:THR:HA	2:DE:302:MET:HE1	2.02	0.41
3:DF:217:LEU:O	3:DF:218:THR:OG1	2.33	0.41
3:DF:384:GLN:O	3:DF:388:MET:HG2	2.20	0.41
2:DG:54:SER:OG	2:DG:64:ARG:NE	2.54	0.41
2:DG:75:VAL:HA	2:DG:78:VAL:HG22	2.01	0.41
2:DG:216:ASN:HB2	2:DG:276:ILE:HD12	2.01	0.41
3:DH:320:ARG:HA	3:DH:320:ARG:NH1	2.35	0.41
3:ED:171:PRO:HG3	3:ED:181:GLU:OE2	2.20	0.41
2:EE:413:MET:HG3	2:EE:414:GLU:N	2.35	0.41
3:EF:12:CYS:O	3:EF:15:GLN:HB3	2.21	0.41
3:EF:36:TYR:CE2	3:EF:38:GLY:HA2	2.55	0.41
8:F2:153:LYS:NZ	8:F2:254:ILE:HG13	2.36	0.41
8:F3:112:TRP:CD1	8:F3:116:LEU:HD23	2.55	0.41
8:F3:112:TRP:O	8:F3:115:ARG:HG3	2.20	0.41
8:F6:190:VAL:HG11	8:F6:476:PHE:CE1	2.55	0.41
3:FD:21:TRP:CE2	3:FD:63:ALA:HB2	2.55	0.41
3:FD:174:LYS:N	3:FD:205:GLU:OE2	2.53	0.41
3:FD:325:GLU:HB3	2:FE:221:ARG:HH11	1.85	0.41
3:FD:355:ASP:OD1	3:FD:355:ASP:N	2.54	0.41
2:FE:135:PHE:O	2:FE:167:LEU:HB2	2.20	0.41
3:FF:372:THR:HG21	3:FF:426:GLN:HB3	2.02	0.41
3:FF:378:PHE:HA	3:FF:381:ILE:HG12	2.01	0.41
3:FH:390:ARG:HG3	3:FH:391:ARG:HG3	2.02	0.41
9:G1:187:ASP:O	9:G1:190:THR:HB	2.20	0.41
9:G2:29:GLN:HE21	9:G2:31:LEU:H	1.68	0.41
9:G2:534:ARG:HA	9:G2:534:ARG:CZ	2.51	0.41
10:G5:194:ASP:HA	10:G5:195:PRO:HD3	1.94	0.41
10:G5:734:ARG:NH2	10:G5:735:TYR:CD2	2.88	0.41
3:GF:36:TYR:CE2	3:GF:38:GLY:HA2	2.55	0.41
2:GG:2:ARG:NE	2:GG:242:LEU:HD12	2.35	0.41
2:GG:352:LYS:HA	3:GH:177:ASP:OD1	2.20	0.41
3:GH:276:ARG:O	3:GH:279:GLN:NE2	2.52	0.41
11:H4:311:GLU:HB3	11:H4:315:ARG:CZ	2.50	0.41
3:HD:377:LEU:O	3:HD:381:ILE:HG12	2.21	0.41
2:HE:89:PRO:HD3	2:IE:283:HIS:NE2	2.35	0.41
2:HE:107:HIS:HD2	2:HE:148:GLY:O	2.03	0.41
3:HF:69:GLU:OE1	3:HF:72:THR:N	2.43	0.41
3:HF:107:THR:HG22	3:HF:108:GLU:OE2	2.19	0.41
3:HF:173:PRO:HA	3:HF:380:ARG:NH2	2.35	0.41
3:HF:392:LYS:HG3	3:HF:395:LEU:HD22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HG:208:ALA:H	2:HG:304:LYS:NZ	2.18	0.41
3:HH:32:PRO:O	3:HH:83:GLN:NE2	2.41	0.41
2:HI:15:GLN:HG2	2:HI:16:ILE:N	2.35	0.41
2:HI:185:TYR:OH	2:HI:398:MET:HB3	2.20	0.41
2:IE:287:SER:HG	2:IE:290:GLU:CD	2.24	0.41
3:IF:375:GLN:OE1	3:IF:375:GLN:N	2.31	0.41
2:IG:168:GLU:O	2:IG:201:ALA:HA	2.21	0.41
2:IG:175:PRO:HD2	2:IG:207:GLU:OE1	2.20	0.41
2:IG:320:ARG:NH2	2:IG:360:PRO:HA	2.35	0.41
3:IH:83:GLN:OE1	3:IH:83:GLN:N	2.33	0.41
25:IH:501:GTP:O3G	25:IH:501:GTP:O3'	2.16	0.41
13:J3:31:SER:O	13:J3:104:HIS:HA	2.20	0.41
3:JD:118:ASP:HA	3:JD:121:ARG:HG2	2.02	0.41
2:JE:95:GLY:C	2:JE:96:LYS:HD3	2.40	0.41
2:JE:220:GLU:OE1	2:JE:220:GLU:N	2.44	0.41
2:JG:14:VAL:HG21	2:JG:74:VAL:HG21	2.01	0.41
2:JG:317:MET:CE	2:JG:377:MET:HG2	2.50	0.41
14:K3:45:THR:HA	14:K3:108:ARG:NE	2.35	0.41
14:K3:148:ASN:HA	14:K3:151:LEU:HB2	2.02	0.41
14:K4:261:ARG:HD2	14:K4:264:TRP:CE3	2.55	0.41
3:KD:150:LEU:HD23	3:KD:150:LEU:HA	1.82	0.41
3:KD:170:VAL:HG21	3:KD:201:CYS:HB3	2.02	0.41
2:KE:263:PRO:O	2:KE:264:ARG:HB2	2.20	0.41
3:KH:130:LEU:O	3:KH:162:ARG:HD2	2.19	0.41
15:L3:28:THR:O	15:L3:30:LEU:N	2.54	0.41
15:L3:61:ASP:HB2	15:L3:64:LYS:NZ	2.35	0.41
15:L3:185:MET:HG2	15:L3:186:LYS:H	1.85	0.41
2:LE:419:SER:O	2:LE:422:ARG:HB3	2.20	0.41
3:LF:117:LEU:HA	3:LF:120:VAL:HG22	2.03	0.41
2:LG:185:TYR:HD1	2:LG:395:PHE:CE1	2.39	0.41
3:LH:204:ASN:N	3:LH:204:ASN:OD1	2.53	0.41
3:LH:258:VAL:HG22	3:LH:266:PHE:HZ	1.85	0.41
3:LH:377:LEU:H	3:LH:377:LEU:HD12	1.85	0.41
2:LI:42:ILE:HG21	2:LI:59:GLY:HA2	2.01	0.41
2:LI:88:HIS:HE1	2:LI:90:GLU:HG2	1.84	0.41
2:LI:402:ARG:HG2	2:LI:402:ARG:O	2.20	0.41
16:M3:56:TYR:HB2	16:M3:89:PHE:CG	2.56	0.41
2:ME:107:HIS:CD2	2:ME:152:LEU:HD12	2.55	0.41
3:MF:69:GLU:CD	3:MF:71:GLY:H	2.23	0.41
3:MF:152:ILE:HG13	3:MF:153:SER:N	2.36	0.41
3:MF:238:THR:HG21	3:MF:318:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:269:GLY:N	3:MF:367:PHE:O	2.53	0.41
3:MH:32:PRO:HG3	3:MH:81:PHE:CZ	2.55	0.41
3:MH:355:ASP:O	3:MH:357:PRO:HD3	2.20	0.41
2:MI:135:PHE:HE2	2:MI:157:LEU:HD12	1.85	0.41
2:MI:320:ARG:HD3	2:MI:360:PRO:HG3	2.01	0.41
3:ND:269:GLY:N	3:ND:367:PHE:O	2.46	0.41
3:ND:381:ILE:HD12	3:ND:381:ILE:HA	1.94	0.41
2:NE:8:HIS:CE1	2:NE:138:PHE:CD2	3.08	0.41
2:NE:15:GLN:HG2	2:NE:16:ILE:N	2.36	0.41
2:NE:21:TRP:CH2	2:NE:52:PHE:HB3	2.56	0.41
2:NE:135:PHE:O	2:NE:167:LEU:HB2	2.21	0.41
2:NE:223:THR:HG1	2:NE:225:THR:HG1	1.57	0.41
2:NE:276:ILE:O	2:NE:369:ALA:HB2	2.20	0.41
2:NE:334:THR:O	2:NE:337:THR:OG1	2.29	0.41
2:NG:338:LYS:NZ	2:NG:340:THR:HG23	2.34	0.41
3:NH:174:LYS:HG2	3:NH:205:GLU:OE2	2.21	0.41
3:NH:233:MET:O	3:NH:236:VAL:HG12	2.20	0.41
3:NH:282:ARG:HH22	3:NH:292:GLN:CD	2.20	0.41
2:NI:3:GLU:N	2:NI:133:GLN:OE1	2.53	0.41
2:NI:118:VAL:O	2:NI:122:ILE:HG12	2.21	0.41
18:O1:15:LEU:H	18:O1:18:TYR:HD2	1.67	0.41
2:OE:5:ILE:HD11	2:OE:129:CYS:SG	2.60	0.41
2:OE:11:GLN:HB3	2:OE:69:ASP:OD2	2.21	0.41
3:OF:224:ASP:O	3:OF:227:HIS:HB3	2.20	0.41
2:OG:98:ASP:OD1	2:OG:99:ALA:N	2.53	0.41
3:OH:47:ILE:HD11	3:OH:51:TYR:CD2	2.55	0.41
2:OI:98:ASP:O	2:OI:105:ARG:NE	2.44	0.41
2:OI:301:GLN:OE1	2:OI:301:GLN:N	2.52	0.41
19:P2:315:TYR:CZ	19:P2:326:LEU:HD13	2.55	0.41
2:PE:21:TRP:HA	2:PE:24:TYR:HB2	2.02	0.41
2:PE:232:GLY:HA2	2:PE:235:VAL:HG12	2.02	0.41
3:PF:87:PRO:HA	3:PF:90:PHE:CD2	2.56	0.41
3:PF:385:PHE:O	3:PF:389:PHE:HB2	2.21	0.41
2:PG:52:PHE:O	2:PG:64:ARG:HG3	2.20	0.41
2:PG:121:ARG:CZ	2:PG:124:LYS:HE2	2.50	0.41
2:PG:417:GLU:OE1	2:PG:417:GLU:N	2.39	0.41
3:PH:2:ARG:HD2	3:PH:130:LEU:C	2.40	0.41
2:PI:228:ASN:HA	2:PI:231:ILE:HG12	2.01	0.41
20:Q1:1433:THR:O	20:Q1:1436:PHE:HB3	2.20	0.41
2:QE:11:GLN:O	2:QE:14:VAL:HG22	2.20	0.41
3:QF:394:PHE:HA	3:QF:397:TRP:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:54:SER:N	2:QG:62:VAL:H	2.08	0.41
3:QH:6:HIS:HD2	3:QH:134:GLN:HG2	1.85	0.41
3:QH:164:MET:HG3	3:QH:196:THR:OG1	2.20	0.41
2:QI:408:TYR:O	2:QI:411:GLU:HG3	2.20	0.41
3:RF:3:GLU:O	3:RF:130:LEU:HD12	2.20	0.41
3:RF:66:VAL:HG13	3:RF:147:MET:SD	2.60	0.41
3:RF:144:GLY:N	25:RF:501:GTP:O2B	2.51	0.41
2:RG:152:LEU:O	2:RG:155:GLU:HG3	2.20	0.41
2:RG:324:VAL:HG21	3:RH:219:THR:HG22	2.02	0.41
3:RH:313:VAL:HB	3:RH:367:PHE:HE1	1.84	0.41
2:RI:70:LEU:HB3	2:RI:97:GLU:O	2.19	0.41
2:RI:147:SER:HB2	2:RI:190:THR:HG21	2.01	0.41
3:RJ:84:ILE:HD12	3:RJ:84:ILE:H	1.85	0.41
3:RJ:207:LEU:HA	3:RJ:210:ILE:HD12	2.02	0.41
2:SE:116:ASP:N	2:SE:116:ASP:OD1	2.53	0.41
2:SE:263:PRO:HD3	3:SF:396:HIS:CD2	2.55	0.41
3:SF:385:PHE:HA	3:SF:388:MET:HG2	2.02	0.41
2:SG:35:GLN:HG2	2:SG:59:GLY:O	2.20	0.41
2:SG:206:ASN:HA	2:SG:209:ILE:HD12	2.02	0.41
2:SG:326:LYS:HD3	3:SH:208:TYR:CE2	2.55	0.41
2:SI:8:HIS:CD2	2:SI:17:GLY:HA3	2.55	0.41
2:SI:326:LYS:H	2:SI:326:LYS:HG2	1.59	0.41
3:TF:75:SER:O	3:TF:78:SER:OG	2.29	0.41
3:TH:54:ALA:HB3	3:TH:58:LYS:HB3	2.02	0.41
3:TH:257:MET:O	3:TH:259:PRO:HD3	2.20	0.41
2:TI:209:ILE:N	2:TI:302:MET:HE1	2.34	0.41
2:TI:236:SER:HA	2:TI:243:ARG:HH22	1.84	0.41
2:TI:315:CYS:O	2:TI:351:PHE:HA	2.20	0.41
3:UD:148:GLY:O	3:UD:152:ILE:HG12	2.20	0.41
2:UE:246:GLY:HA3	2:UE:356:ASN:HA	2.01	0.41
2:UE:306:ASP:HB3	2:UE:309:HIS:ND1	2.34	0.41
3:UF:3:GLU:OE2	3:UF:127:CYS:HB2	2.20	0.41
3:UF:313:VAL:HG23	3:UF:349:VAL:HA	2.02	0.41
3:UF:345:ILE:HD12	2:UG:398:MET:CE	2.50	0.41
2:UG:252:LEU:HA	2:UG:255:PHE:HD2	1.84	0.41
2:UG:349:THR:HG21	3:UH:179:VAL:HA	2.02	0.41
3:VD:145:SER:O	3:VD:149:THR:HG23	2.20	0.41
3:VD:161:ASP:O	3:VD:251:ARG:NH2	2.47	0.41
3:VD:345:ILE:HD12	3:VD:346:PRO:HD2	2.02	0.41
3:VF:130:LEU:HB2	3:VF:162:ARG:HH11	1.84	0.41
3:VF:333:VAL:HA	3:VF:336:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:183:GLU:HA	2:VG:186:ASN:OD1	2.20	0.41
3:VH:11:GLN:HG3	25:VH:501:GTP:PA	2.60	0.41
2:WE:316:CYS:O	2:WE:377:MET:HA	2.20	0.41
3:WF:337:ASN:ND2	3:WF:340:TYR:HB2	2.35	0.41
3:WF:392:LYS:HB3	3:WF:395:LEU:HD13	2.02	0.41
2:WG:3:GLU:CD	2:WG:131:GLY:H	2.17	0.41
2:WG:3:GLU:HG2	2:WG:132:LEU:H	1.85	0.41
2:WG:28:HIS:NE2	2:WG:48:SER:OG	2.52	0.41
2:WG:312:TYR:HE2	2:WG:341:ILE:HD12	1.85	0.41
2:WG:318:LEU:HD12	2:WG:354:GLY:O	2.21	0.41
2:WG:331:ALA:O	2:WG:334:THR:OG1	2.27	0.41
2:WI:116:ASP:N	2:WI:116:ASP:OD1	2.52	0.41
2:WI:279:GLU:O	2:WI:282:TYR:HB3	2.20	0.41
2:WI:304:LYS:HD2	2:WI:304:LYS:H	1.84	0.41
2:WI:332:ILE:HG13	2:WI:336:LYS:NZ	2.35	0.41
22:XC:13:ILE:HD12	22:XC:166:TYR:HA	2.02	0.41
22:XC:24:ILE:HD12	22:XC:24:ILE:HA	1.92	0.41
22:XC:170:ARG:HG2	22:XC:172:TYR:CE2	2.55	0.41
22:XD:58:TYR:HB3	22:XD:157:HIS:CE1	2.56	0.41
22:XE:46:VAL:HG23	22:XE:48:GLU:OE2	2.20	0.41
23:XK:88:ASP:OD2	23:XK:91:HIS:HB3	2.20	0.41
24:YI:96:LEU:HD23	24:YI:99:LYS:CE	2.49	0.41
24:YM:87:HIS:HA	24:YM:166:GLY:H	1.85	0.41
1:A2:333:ALA:O	1:A2:337:LEU:HD23	2.20	0.41
1:A3:241:LEU:HA	1:A3:241:LEU:HD12	1.72	0.41
2:AE:311:LYS:HB3	2:AE:311:LYS:HE3	1.91	0.41
3:AF:6:HIS:HD1	3:AF:21:TRP:HE1	1.66	0.41
3:AF:39:ASP:OD1	3:AF:43:GLN:NE2	2.53	0.41
3:AF:255:VAL:HA	2:AG:407:TRP:CZ2	2.55	0.41
3:AF:261:PRO:O	3:AF:264:HIS:NE2	2.53	0.41
3:AF:325:GLU:HB3	2:AG:221:ARG:HH12	1.85	0.41
2:AG:347:CYS:HB2	2:AG:349:THR:O	2.20	0.41
3:AH:32:PRO:O	3:AH:84:ILE:HD11	2.19	0.41
3:AH:101:TRP:CE3	3:AH:187:LEU:HD13	2.55	0.41
2:AI:132:LEU:HD23	2:AI:132:LEU:O	2.20	0.41
2:AI:265:ILE:HA	2:AI:267:PHE:CE2	2.55	0.41
4:B2:384:LEU:HA	4:B2:384:LEU:HD23	1.84	0.41
4:B3:89:ILE:HD13	4:B3:89:ILE:HA	1.82	0.41
4:B7:136:GLU:O	4:B7:139:LYS:HG2	2.21	0.41
2:BE:93:ILE:HD13	2:BE:93:ILE:HA	1.96	0.41
2:BE:363:VAL:H	2:BE:368:LEU:HD21	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:438:ASP:OD1	2:BE:438:ASP:N	2.54	0.41
3:BF:286:VAL:HA	3:BF:363:MET:HE1	2.02	0.41
2:BG:47:ASP:HB3	2:BG:49:PHE:CE2	2.56	0.41
3:BH:375:GLN:NE2	3:BH:422:TYR:HB3	2.25	0.41
2:BI:185:TYR:OH	2:BI:398:MET:HB3	2.21	0.41
5:C2:123:ASP:O	5:C2:126:ARG:HG3	2.21	0.41
5:C2:253:GLU:OE1	5:C2:310:ARG:NH2	2.53	0.41
3:CF:278:SER:O	3:CF:282:ARG:HB2	2.20	0.41
3:CF:414:ASN:O	3:CF:418:LEU:HG	2.21	0.41
2:CG:422:ARG:HA	2:CG:422:ARG:HD2	1.96	0.41
2:CI:338:LYS:HA	2:CI:338:LYS:HD2	1.76	0.41
3:DD:162:ARG:HD3	3:DD:162:ARG:HA	1.86	0.41
2:DE:148:GLY:O	2:DE:151:SER:OG	2.24	0.41
2:DE:288:VAL:HG21	2:DE:327:ASP:HB2	2.01	0.41
2:DE:308:ARG:NH2	2:DE:341:ILE:HD12	2.35	0.41
3:DF:44:LEU:HD21	11:H4:289:ILE:HA	2.02	0.41
3:DF:209:ASP:O	3:DF:213:ARG:HG2	2.19	0.41
3:DF:350:LYS:HZ3	2:DG:181:VAL:HG13	1.84	0.41
2:DG:47:ASP:OD1	2:DG:48:SER:N	2.50	0.41
2:DG:272:TYR:CD2	2:DG:275:VAL:HG13	2.53	0.41
3:DH:31:ASP:N	3:DH:31:ASP:OD1	2.53	0.41
3:DH:32:PRO:HA	3:DH:81:PHE:CD2	2.55	0.41
3:EF:77:ARG:CZ	3:EF:83:GLN:HA	2.50	0.41
3:EF:378:PHE:HE1	3:EF:419:VAL:HG22	1.85	0.41
2:EG:65:ALA:C	2:EG:91:GLN:HE21	2.20	0.41
3:EH:73:MET:HA	3:EH:76:VAL:HG22	2.02	0.41
3:EH:313:VAL:O	3:EH:349:VAL:HA	2.21	0.41
8:F2:244:ARG:HG3	8:F6:196:TYR:CE2	2.55	0.41
8:F2:378:LEU:O	8:F2:382:ILE:HG13	2.20	0.41
8:F2:432:LEU:HA	8:F2:435:ARG:CZ	2.50	0.41
8:F2:434:LEU:O	8:F2:437:THR:HG22	2.20	0.41
8:F6:211:VAL:O	8:F6:215:LEU:HG	2.20	0.41
8:F6:287:ASP:N	8:F6:287:ASP:OD1	2.53	0.41
8:F6:296:TRP:NE1	8:F7:405:VAL:O	2.42	0.41
3:FF:200:TYR:CD1	3:FF:268:PRO:HG3	2.54	0.41
3:FF:325:GLU:O	3:FF:328:GLU:HG3	2.20	0.41
3:FF:374:ILE:H	3:FF:374:ILE:HD12	1.85	0.41
2:FG:280:LYS:HA	2:FG:280:LYS:HD2	1.88	0.41
3:FH:3:GLU:OE1	3:FH:3:GLU:N	2.54	0.41
9:G2:112:GLU:HB2	9:G2:113:GLU:OE1	2.21	0.41
9:G2:270:ASP:N	9:G2:270:ASP:OD1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G2:408:ASP:OD2	9:G2:411:LYS:HB2	2.20	0.41
9:G2:497:GLU:OE2	9:G2:498:VAL:N	2.54	0.41
10:G5:23:SER:HB3	10:G5:41:PRO:HG2	2.02	0.41
10:G5:502:ILE:HD12	10:G5:502:ILE:H	1.85	0.41
10:G5:646:ASP:HB2	10:G5:649:LYS:HD3	2.02	0.41
2:GE:226:ASN:ND2	2:GE:367:ASP:OD2	2.38	0.41
2:GE:397:LEU:HB3	2:GE:401:LYS:NZ	2.35	0.41
3:GF:207:LEU:O	3:GF:210:ILE:HG22	2.20	0.41
2:GG:338:LYS:HZ2	2:GG:339:ARG:H	1.67	0.41
3:GH:336:LYS:HD3	3:GH:337:ASN:OD1	2.20	0.41
2:GI:88:HIS:HB3	2:GI:91:GLN:CB	2.46	0.41
2:GI:319:TYR:HB2	2:GI:355:ILE:HD13	2.03	0.41
11:H3:13:GLU:HB2	11:H3:14:PRO:HD2	2.01	0.41
3:HD:12:CYS:SG	25:HD:501:GTP:H5'	2.60	0.41
3:HD:117:LEU:HB3	3:HD:121:ARG:NH1	2.35	0.41
2:HE:288:VAL:HA	2:HE:291:ILE:HG12	2.01	0.41
2:HE:346:TRP:N	2:HE:346:TRP:CD1	2.88	0.41
2:HE:408:TYR:HA	2:HE:411:GLU:HG3	2.01	0.41
3:HF:303:CYS:SG	3:HF:373:ALA:HB1	2.60	0.41
3:HH:14:ASN:OD1	3:HH:65:LEU:HD11	2.20	0.41
3:HH:357:PRO:O	3:HH:359:ARG:NH2	2.53	0.41
3:HH:378:PHE:CE1	3:HH:419:VAL:HG13	2.54	0.41
3:HH:392:LYS:CB	3:HH:395:LEU:HD13	2.49	0.41
2:HI:19:ALA:O	2:HI:23:LEU:HG	2.20	0.41
2:HI:56:THR:HG21	2:II:285:GLN:HB2	2.01	0.41
12:I2:53:ARG:O	12:I2:57:LEU:HG	2.20	0.41
2:IE:60:LYS:HG3	3:JD:280:GLN:OE1	2.20	0.41
3:IF:374:ILE:HA	3:IF:377:LEU:HD13	2.02	0.41
3:IH:257:MET:O	3:IH:259:PRO:HD3	2.20	0.41
3:IH:419:VAL:HG12	3:IH:423:GLN:HE22	1.84	0.41
2:II:155:GLU:O	2:II:159:VAL:HG13	2.21	0.41
2:II:327:ASP:OD1	2:II:328:VAL:N	2.53	0.41
13:J2:92:HIS:O	13:J2:95:GLU:HG2	2.21	0.41
13:J3:70:VAL:HG12	13:J3:72:VAL:HG22	2.03	0.41
3:JD:384:GLN:HB3	3:JD:388:MET:HE1	2.00	0.41
3:JH:117:LEU:HA	3:JH:117:LEU:HD23	1.78	0.41
14:K2:387:LEU:HD22	14:K2:392:LYS:CA	2.50	0.41
14:K3:15:ARG:NE	14:K3:16:VAL:H	2.16	0.41
14:K4:243:GLN:N	14:K4:243:GLN:OE1	2.54	0.41
3:KD:31:ASP:OD2	3:KD:33:THR:OG1	2.37	0.41
3:KD:262:ARG:HA	3:KD:264:HIS:HE2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:99:ASN:HB2	3:KF:142:GLY:HA3	2.03	0.41
3:KF:390:ARG:HD2	3:KF:390:ARG:HA	1.79	0.41
2:KG:206:ASN:OD1	2:KG:206:ASN:N	2.53	0.41
2:KI:204:VAL:HG23	2:KI:302:MET:CG	2.47	0.41
2:KI:286:LEU:H	2:KI:286:LEU:HD23	1.86	0.41
15:L3:62:PHE:O	15:L3:64:LYS:HD2	2.21	0.41
15:L3:167:LYS:O	15:L3:171:GLU:OE1	2.38	0.41
3:LD:34:GLY:O	3:LD:58:LYS:HA	2.20	0.41
2:LE:313:MET:HE3	2:LE:313:MET:HA	2.02	0.41
2:LG:122:ILE:HG13	2:LG:123:ARG:N	2.35	0.41
2:LI:36:MET:HB2	2:LI:42:ILE:HD11	2.02	0.41
2:ME:42:ILE:HG21	2:ME:59:GLY:HA2	2.02	0.41
2:ME:182:VAL:HG12	2:ME:182:VAL:O	2.20	0.41
3:MF:204:ASN:HA	3:MF:207:LEU:HD12	2.02	0.41
3:MF:350:LYS:HE2	2:MG:181:VAL:HG13	2.02	0.41
2:MG:28:HIS:CE1	2:MG:49:PHE:HD2	2.38	0.41
2:MI:155:GLU:OE2	2:MI:197:HIS:ND1	2.54	0.41
2:NE:226:ASN:HD22	2:NE:226:ASN:C	2.22	0.41
2:NE:287:SER:N	2:NE:290:GLU:OE2	2.53	0.41
3:NF:246:LEU:HD22	3:NF:354:CYS:HA	2.02	0.41
2:NI:251:ASP:HB3	2:NI:254:GLU:OE1	2.20	0.41
18:O1:18:TYR:O	18:O1:20:GLN:NE2	2.52	0.41
3:OD:233:MET:O	3:OD:236:VAL:HG22	2.20	0.41
3:OD:258:VAL:HB	2:OE:407:TRP:CZ2	2.56	0.41
3:OD:275:SER:N	3:OD:278:SER:OG	2.52	0.41
3:OD:405:GLU:O	3:OD:409:THR:HG23	2.20	0.41
2:OE:8:HIS:HD2	2:OE:17:GLY:HA3	1.84	0.41
3:OF:69:GLU:HB3	3:OF:72:THR:HG23	2.02	0.41
3:OH:11:GLN:OE1	25:OH:501:GTP:N2	2.53	0.41
2:OI:8:HIS:CD2	2:OI:138:PHE:CD2	3.08	0.41
2:OI:170:ALA:HB3	2:OI:203:MET:HE1	2.01	0.41
2:OI:320:ARG:HD3	2:OI:360:PRO:HG3	2.03	0.41
2:OI:326:LYS:HA	2:OI:329:ASN:HD21	1.86	0.41
19:P1:45:CYS:N	19:P1:66:ASN:HA	2.36	0.41
19:P1:167:SER:HB3	19:P1:170:ARG:O	2.20	0.41
19:P1:228:ASP:OD1	19:P1:244:PRO:HD2	2.20	0.41
19:P1:442:ARG:HD2	19:P1:444:TRP:CZ2	2.55	0.41
19:P2:121:PRO:HG3	19:P2:167:SER:O	2.20	0.41
19:P2:351:CYS:HB3	19:P2:380:ILE:HG21	2.02	0.41
2:PE:88:HIS:HE1	2:PE:90:GLU:CD	2.23	0.41
2:PE:216:ASN:OD1	2:PE:217:LEU:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:316:CYS:O	2:PE:377:MET:HA	2.21	0.41
3:PF:156:ARG:HD2	3:PF:156:ARG:HA	1.84	0.41
3:PF:267:MET:CE	3:PF:371:SER:H	2.34	0.41
2:PG:305:CYS:HB2	2:PG:383:ALA:HB1	2.02	0.41
2:PI:3:GLU:CD	2:PI:132:LEU:H	2.24	0.41
2:PI:141:PHE:CE2	2:PI:203:MET:HE3	2.56	0.41
2:PI:187:SER:O	2:PI:191:THR:HG23	2.20	0.41
2:PI:224:TYR:CE2	25:PI:501:GTP:O6	2.70	0.41
2:PI:306:ASP:OD2	2:PI:309:HIS:N	2.53	0.41
20:Q1:1367:VAL:O	20:Q1:1370:PHE:O	2.36	0.41
20:Q1:1427:LYS:HB2	20:Q1:1499:LYS:HG3	2.02	0.41
20:Q1:1446:LYS:NZ	20:Q1:1483:ILE:HA	2.36	0.41
3:QF:204:ASN:OD1	3:QF:205:GLU:N	2.53	0.41
3:QF:309:ARG:O	3:QF:371:SER:OG	2.24	0.41
2:QI:188:ILE:HD12	2:QI:191:THR:OG1	2.20	0.41
2:QI:224:TYR:HA	2:QI:227:LEU:HB2	2.02	0.41
2:QI:286:LEU:HD11	2:QI:372:GLN:H	1.85	0.41
2:RE:2:ARG:HH21	2:RE:251:ASP:HA	1.85	0.41
2:RE:31:GLN:OE1	2:RE:36:MET:HA	2.20	0.41
2:RE:151:SER:O	2:RE:154:MET:HG3	2.20	0.41
2:RG:68:VAL:HG12	2:RG:93:ILE:HB	2.02	0.41
3:RH:148:GLY:O	3:RH:152:ILE:HG12	2.21	0.41
3:RH:152:ILE:HB	3:RH:156:ARG:CZ	2.50	0.41
3:RH:261:PRO:HD2	3:RH:262:ARG:NH1	2.35	0.41
3:RH:324:LYS:HE2	2:RI:222:PRO:CG	2.43	0.41
2:RI:70:LEU:HG	2:RI:149:PHE:CZ	2.55	0.41
2:RI:185:TYR:O	2:RI:189:LEU:HD13	2.19	0.41
2:RI:266:HIS:O	2:RI:268:PRO:HD3	2.21	0.41
2:RI:326:LYS:HA	3:RJ:208:TYR:CE2	2.55	0.41
2:RI:384:ILE:HB	2:RI:388:TRP:HZ3	1.84	0.41
3:RJ:131:GLN:HB3	3:RJ:163:ILE:HD12	2.02	0.41
3:RJ:164:MET:HB3	3:RJ:197:ASP:H	1.84	0.41
3:RJ:172:SER:HB3	3:RJ:175:VAL:O	2.20	0.41
3:RJ:215:LEU:HD23	3:RJ:215:LEU:HA	1.94	0.41
3:RJ:350:LYS:HA	3:RJ:350:LYS:HD3	1.91	0.41
3:RJ:357:PRO:HB3	3:RJ:362:LYS:O	2.20	0.41
2:SE:332:ILE:O	2:SE:335:ILE:HG12	2.21	0.41
3:SF:12:CYS:SG	3:SF:13:GLY:N	2.93	0.41
2:SG:326:LYS:HZ1	3:SH:220:PRO:HG2	1.85	0.41
3:SH:41:ASP:O	3:SH:45:GLU:HG3	2.21	0.41
3:SH:189:VAL:HG23	3:SH:265:PHE:HZ	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:324:LYS:HE2	2:SI:222:PRO:CG	2.49	0.41
2:SI:174:ALA:HB1	2:SI:207:GLU:OE2	2.20	0.41
2:SI:317:MET:HA	2:SI:376:CYS:O	2.19	0.41
3:TF:35:THR:O	3:TF:35:THR:OG1	2.37	0.41
3:TF:252:LYS:CD	2:TG:100:ALA:HA	2.50	0.41
3:TF:262:ARG:HD2	3:TF:421:GLU:CG	2.47	0.41
2:TG:172:TYR:HB2	2:TG:203:MET:SD	2.60	0.41
2:TG:224:TYR:CE1	25:TG:501:GTP:C5	3.07	0.41
2:TG:261:PRO:HA	3:TH:394:PHE:CD1	2.54	0.41
3:TH:91:VAL:HG11	3:TH:116:VAL:HG12	2.02	0.41
3:TH:318:ARG:HD2	3:TH:358:PRO:HG3	2.01	0.41
3:UD:323:MET:SD	3:UD:323:MET:N	2.82	0.41
3:UF:73:MET:SD	3:UF:92:PHE:HB3	2.60	0.41
3:UF:246:LEU:HD12	3:UF:352:ALA:HB1	2.02	0.41
2:UG:74:VAL:O	2:UG:78:VAL:HG22	2.21	0.41
2:UG:207:GLU:HB2	2:UG:304:LYS:NZ	2.31	0.41
2:UG:326:LYS:HA	2:UG:329:ASN:HD21	1.84	0.41
3:UH:20:PHE:CZ	3:UH:24:ILE:HD11	2.55	0.41
2:VE:220:GLU:HG2	2:VE:221:ARG:HG2	2.02	0.41
2:VE:426:ALA:HA	2:VE:429:GLU:OE1	2.21	0.41
3:VF:11:GLN:O	3:VF:14:ASN:HB2	2.21	0.41
3:VF:330:MET:SD	3:VF:349:VAL:HB	2.60	0.41
2:VG:311:LYS:HZ2	2:VG:342:GLN:HB3	1.86	0.41
3:VH:119:VAL:HA	3:VH:122:LYS:HE2	2.01	0.41
2:WE:117:LEU:HG	22:XC:6:PHE:CD2	2.56	0.41
2:WE:221:ARG:NE	2:WE:221:ARG:HA	2.34	0.41
3:WF:191:GLN:H	3:WF:191:GLN:CD	2.24	0.41
3:WF:296:ALA:O	3:WF:299:MET:HB3	2.21	0.41
2:WG:216:ASN:OD1	2:WG:217:LEU:N	2.49	0.41
2:WG:324:VAL:HG22	2:WG:327:ASP:OD2	2.20	0.41
3:WH:31:ASP:OD1	3:WH:35:THR:N	2.54	0.41
3:WH:205:GLU:HA	3:WH:208:TYR:CD2	2.55	0.41
22:XE:83:LEU:HD11	22:XE:161:ARG:HB2	2.01	0.41
23:XL:201:LYS:HB2	23:XL:203:GLU:OE2	2.21	0.41
24:YI:71:ASP:O	24:YI:75:GLU:HG3	2.20	0.41
24:YI:90:THR:HG21	24:YI:154:HIS:CD2	2.55	0.41
24:YK:96:LEU:HA	24:YK:99:LYS:HG2	2.02	0.41
1:A2:97:ARG:HE	1:A2:246:LEU:CD1	2.33	0.41
1:A2:241:LEU:HD12	12:I2:48:TYR:OH	2.20	0.41
1:A3:9:PRO:C	1:A3:10:ARG:HD3	2.41	0.41
3:AF:378:PHE:CE1	3:AF:419:VAL:HG22	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:35:GLN:HG2	2:AG:59:GLY:O	2.21	0.41
2:AG:115:VAL:HA	2:AG:118:VAL:HG22	2.03	0.41
2:AG:224:TYR:CD1	2:AG:227:LEU:HD12	2.56	0.41
3:AH:7:LEU:HD12	3:AH:7:LEU:HA	1.91	0.41
3:AH:176:SER:O	3:AH:178:THR:N	2.53	0.41
3:AH:281:TYR:HB3	3:MH:86:ARG:HD3	2.02	0.41
3:AH:350:LYS:HE3	2:AI:181:VAL:N	2.32	0.41
2:AI:117:LEU:O	2:AI:120:ASP:HB3	2.21	0.41
4:B3:176:HIS:O	4:B3:179:LYS:HG2	2.21	0.41
4:B7:307:LYS:HZ3	4:B7:349:ILE:HD13	1.84	0.41
4:B8:326:ASN:OD1	4:B8:327:VAL:N	2.49	0.41
2:BE:145:THR:OG1	25:BE:501:GTP:O1B	2.37	0.41
3:BF:359:ARG:CZ	11:H3:4:THR:HB	2.50	0.41
3:BF:405:GLU:HA	3:BF:408:PHE:CD2	2.53	0.41
2:BG:167:LEU:HD13	2:BG:200:CYS:HB2	2.02	0.41
2:BG:260:VAL:HG23	2:BG:265:ILE:O	2.20	0.41
2:BG:352:LYS:NZ	3:BH:178:THR:HA	2.36	0.41
3:BH:19:LYS:O	3:BH:22:GLU:HG3	2.21	0.41
3:BH:44:LEU:HD21	11:H4:25:PRO:HG3	2.03	0.41
3:BH:134:GLN:HA	3:BH:165:ASN:O	2.19	0.41
3:BH:199:THR:O	3:BH:266:PHE:HB2	2.20	0.41
2:BI:135:PHE:CZ	2:BI:164:LYS:HD2	2.55	0.41
5:C3:129:GLN:O	5:C3:133:GLN:NE2	2.46	0.41
5:C4:375:ILE:O	5:C4:379:ILE:HG12	2.20	0.41
5:C8:302:LYS:HD3	7:E3:91:HIS:CE1	2.56	0.41
5:C8:323:GLU:HA	5:C8:326:GLU:OE1	2.20	0.41
2:CG:396:ASP:N	2:CG:396:ASP:OD1	2.52	0.41
3:CH:8:GLN:OE1	3:CH:8:GLN:N	2.54	0.41
3:CH:77:ARG:HA	3:CH:82:GLY:HA3	2.03	0.41
2:CI:11:GLN:HB3	25:CI:501:GTP:O1B	2.21	0.41
2:CI:211:ASP:O	2:CI:215:ARG:HG3	2.21	0.41
2:CI:416:GLY:O	2:CI:420:GLU:HG2	2.20	0.41
3:CJ:341:PHE:HB3	3:CJ:348:ASN:HD21	1.85	0.41
6:D3:266:LEU:O	6:D3:270:ARG:HG3	2.21	0.41
6:D7:321:HIS:HA	6:D7:324:LYS:HZ3	1.85	0.41
6:D7:390:ALA:O	6:D7:394:LYS:HG2	2.21	0.41
3:DD:302:ALA:HB1	3:DD:377:LEU:CD1	2.50	0.41
3:DD:323:MET:HA	3:DD:326:VAL:HG12	2.02	0.41
3:DD:379:LYS:O	3:DD:382:SER:OG	2.28	0.41
2:DE:330:ALA:O	2:DE:334:THR:HG23	2.21	0.41
2:DE:346:TRP:HE1	3:DF:391:ARG:NH1	2.15	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:211:CYS:SG	3:DH:220:PRO:HG3	2.60	0.41
3:ED:263:LEU:HD21	3:ED:421:GLU:OE2	2.20	0.41
3:ED:294:PHE:HZ	3:ED:310:TYR:CE2	2.38	0.41
3:ED:380:ARG:CZ	3:ED:380:ARG:HB3	2.51	0.41
3:EF:285:THR:HB	3:EF:287:PRO:HD2	2.01	0.41
2:EG:119:LEU:HB3	2:EG:123:ARG:NH2	2.35	0.41
2:EG:319:TYR:CE2	2:EG:328:VAL:HG22	2.55	0.41
3:EH:36:TYR:HE1	3:EH:38:GLY:HA2	1.84	0.41
8:F2:196:TYR:HD2	8:F6:244:ARG:NH2	2.18	0.41
8:F3:247:GLN:O	8:F3:251:GLU:OE1	2.38	0.41
8:F6:236:ILE:O	8:F6:240:ILE:HG12	2.20	0.41
8:F7:316:ARG:O	8:F7:320:GLU:OE1	2.38	0.41
3:FD:372:THR:CA	3:FD:375:GLN:HE22	2.32	0.41
3:FF:49:VAL:HG13	3:FF:50:TYR:HD2	1.84	0.41
3:FF:130:LEU:H	3:FF:162:ARG:NH1	2.18	0.41
3:FF:181:GLU:HB3	3:FF:182:PRO:HD3	2.01	0.41
3:FF:198:GLU:HG2	3:FF:266:PHE:CE2	2.55	0.41
3:FF:378:PHE:HE1	3:FF:419:VAL:HG22	1.85	0.41
2:FG:438:ASP:OD1	2:FG:438:ASP:N	2.49	0.41
9:G1:213:THR:HA	9:G1:216:ARG:HD2	2.01	0.41
10:G5:513:VAL:O	10:G5:519:LEU:HD12	2.20	0.41
3:GD:50:TYR:CA	3:GD:62:ARG:HH21	2.33	0.41
2:GE:20:CYS:SG	2:GE:235:VAL:HG11	2.61	0.41
2:GE:47:ASP:O	2:GE:50:ASN:N	2.23	0.41
3:GF:80:PRO:HB2	3:GF:81:PHE:CD2	2.56	0.41
2:GG:46:ASP:HA	2:GG:50:ASN:HB3	2.02	0.41
3:GH:318:ARG:CZ	3:GH:358:PRO:HG3	2.51	0.41
2:GI:36:MET:HG3	2:GI:41:THR:OG1	2.20	0.41
2:GI:127:ASP:OD1	2:GI:128:LEU:HD12	2.20	0.41
2:GI:171:ILE:HD11	2:GI:206:ASN:H	1.84	0.41
11:H3:12:PRO:HA	11:H3:43:LEU:HD22	2.01	0.41
11:H3:275:ILE:O	11:H3:281:LEU:HD13	2.20	0.41
3:HD:117:LEU:HD11	3:HD:154:LYS:HD2	2.03	0.41
2:HE:276:ILE:HD12	2:HE:276:ILE:HA	1.96	0.41
3:HF:234:SER:O	3:HF:238:THR:HG23	2.21	0.41
3:HF:261:PRO:HD3	2:HG:406:HIS:CG	2.56	0.41
3:HF:416:ASN:HA	3:HF:419:VAL:HG23	2.02	0.41
3:HH:1:MET:O	3:HH:129:CYS:HB2	2.21	0.41
3:HH:198:GLU:HG2	3:HH:266:PHE:HE2	1.85	0.41
3:HH:350:LYS:HE3	2:HI:180:ALA:HA	2.02	0.41
2:HI:235:VAL:O	2:HI:238:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:247:ALA:HB3	2:HI:355:ILE:HD11	2.01	0.41
2:IE:156:ARG:HH21	2:IE:159:VAL:HG21	1.84	0.41
3:IF:105:HIS:HD2	3:IF:106:TYR:CE1	2.38	0.41
3:IF:344:TRP:CZ2	2:IG:401:LYS:HD3	2.53	0.41
2:IG:4:CYS:SG	2:IG:134:GLY:N	2.93	0.41
2:IG:297:GLU:CD	2:IG:299:ALA:H	2.23	0.41
3:IH:324:LYS:HE2	2:II:222:PRO:CD	2.50	0.41
2:II:12:ALA:O	25:II:501:GTP:C2	2.74	0.41
2:JE:88:HIS:CE1	2:JE:90:GLU:HG2	2.51	0.41
2:JE:165:SER:OG	2:JE:252:LEU:HD13	2.20	0.41
2:JE:257:THR:HG22	3:JF:397:TRP:CD1	2.55	0.41
3:JF:101:TRP:HB2	3:JF:184:ASN:HD22	1.86	0.41
3:JH:6:HIS:CE1	3:JH:8:GLN:HB2	2.55	0.41
14:K2:375:ARG:O	14:K2:379:LYS:HG2	2.20	0.41
14:K3:153:LEU:HA	14:K3:156:ARG:HH22	1.86	0.41
14:K3:270:PRO:HB3	24:YK:160:ARG:HH11	1.86	0.41
14:K3:284:ASP:N	14:K3:284:ASP:OD1	2.54	0.41
14:K3:401:TYR:CG	14:K4:126:VAL:HG23	2.55	0.41
2:KE:102:ASN:CG	2:KE:105:ARG:H	2.24	0.41
3:KF:149:THR:O	3:KF:152:ILE:HG12	2.21	0.41
3:KF:249:ASP:OD1	3:KF:251:ARG:N	2.44	0.41
2:KG:11:GLN:HA	2:KG:14:VAL:HG22	2.02	0.41
2:KG:292:THR:HA	2:KG:295:CYS:SG	2.60	0.41
3:KH:278:SER:HA	3:KH:281:TYR:HB2	2.02	0.41
2:KI:394:LYS:HG3	2:KI:398:MET:CE	2.51	0.41
3:LD:19:LYS:O	3:LD:23:VAL:HG23	2.20	0.41
3:LF:73:MET:CE	3:LF:90:PHE:HB3	2.50	0.41
3:LF:233:MET:O	3:LF:236:VAL:HG12	2.20	0.41
2:LG:346:TRP:CE2	3:LH:391:ARG:NH1	2.88	0.41
3:LH:334:GLN:O	3:LH:338:SER:OG	2.28	0.41
2:LI:145:THR:HG23	25:LI:501:GTP:O3B	2.19	0.41
2:ME:12:ALA:HB1	25:ME:501:GTP:C5	2.55	0.41
2:ME:45:GLY:HA2	2:ME:49:PHE:HE1	1.85	0.41
3:MF:269:GLY:HA3	3:MF:367:PHE:HB3	2.01	0.41
3:MF:372:THR:HA	3:MF:375:GLN:HE22	1.84	0.41
3:MF:412:GLU:HA	3:MF:415:MET:HE2	2.02	0.41
3:MH:140:GLY:O	3:MH:181:GLU:HG2	2.19	0.41
2:MI:6:SER:O	2:MI:7:ILE:HD13	2.21	0.41
2:MI:84:ARG:HG2	2:MI:85:GLN:N	2.34	0.41
17:N2:150:THR:HG23	17:N2:150:THR:O	2.20	0.41
3:ND:257:MET:O	3:ND:259:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:170:ALA:O	2:NE:203:MET:HA	2.20	0.41
2:NE:389:ALA:HA	2:NE:392:ASP:OD2	2.20	0.41
3:NF:317:PHE:HE2	3:NF:326:VAL:HG23	1.85	0.41
3:NF:318:ARG:HG2	3:NF:356:ILE:O	2.21	0.41
3:NF:355:ASP:OD1	3:NF:355:ASP:N	2.53	0.41
2:NG:91:GLN:HG3	2:NG:92:LEU:HD22	2.02	0.41
2:NG:187:SER:O	2:NG:191:THR:HG23	2.19	0.41
2:NG:207:GLU:HB2	2:NG:304:LYS:NZ	2.35	0.41
2:NG:317:MET:N	2:NG:317:MET:SD	2.93	0.41
3:NH:42:LEU:HD12	3:NH:243:PRO:HD2	2.02	0.41
2:NI:42:ILE:HG12	2:NI:55:GLU:OE2	2.21	0.41
2:NI:325:PRO:O	2:NI:329:ASN:ND2	2.54	0.41
18:O2:37:GLY:HA2	20:Q2:1413:SER:HA	2.01	0.41
18:O2:60:PRO:O	18:O2:62:GLY:N	2.53	0.41
3:OD:32:PRO:HB3	3:OD:80:PRO:O	2.20	0.41
3:OD:238:THR:HG22	3:OD:241:ARG:HH21	1.85	0.41
3:OH:2:ARG:HB3	3:OH:131:GLN:NE2	2.35	0.41
3:OH:405:GLU:HA	3:OH:408:PHE:CD2	2.43	0.41
2:OI:395:PHE:HB3	2:OI:422:ARG:HH11	1.85	0.41
19:P1:265:LEU:HD12	19:P1:273:LEU:HD11	2.02	0.41
19:P1:282:LYS:HE3	19:P1:282:LYS:HB3	1.92	0.41
19:P1:573:ASP:OD1	19:P1:574:TYR:N	2.53	0.41
19:P2:74:LYS:HB2	19:P2:74:LYS:HE2	1.85	0.41
19:P2:280:SER:O	19:P2:282:LYS:N	2.53	0.41
19:P2:506:GLN:HE22	19:P2:507:CYS:HB3	1.84	0.41
2:PE:126:ALA:HA	2:PE:129:CYS:SG	2.60	0.41
3:PH:107:THR:HB	3:PH:108:GLU:OE1	2.20	0.41
3:PH:394:PHE:HA	3:PH:397:TRP:HZ3	1.85	0.41
2:PI:119:LEU:HB3	2:PI:123:ARG:NH2	2.35	0.41
2:PI:125:LEU:O	2:PI:128:LEU:HG	2.20	0.41
20:Q2:1421:GLN:OE1	20:Q2:1506:SER:HB3	2.20	0.41
2:QE:425:LEU:O	2:QE:428:LEU:HB3	2.21	0.41
2:QG:4:CYS:SG	2:QG:133:GLN:HB2	2.60	0.41
2:QG:325:PRO:HA	2:QG:328:VAL:HB	2.01	0.41
2:QI:89:PRO:HD3	2:RI:283:HIS:HE1	1.86	0.41
2:QI:290:GLU:HG2	2:QI:291:ILE:N	2.36	0.41
2:RE:45:GLY:O	2:RE:50:ASN:HB3	2.20	0.41
2:RE:150:ALA:O	2:RE:153:LEU:HG	2.20	0.41
2:RE:285:GLN:NE2	2:RE:286:LEU:O	2.53	0.41
2:RE:346:TRP:HZ2	3:RF:391:ARG:HH11	1.66	0.41
2:RG:70:LEU:HB3	2:RG:97:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RG:232:GLY:HA2	2:RG:235:VAL:HG22	2.02	0.41
2:RG:384:ILE:HB	2:RG:388:TRP:HZ3	1.86	0.41
2:RI:332:ILE:HG13	2:RI:336:LYS:HZ1	1.84	0.41
3:RJ:11:GLN:HE21	25:RJ:501:GTP:C3'	2.32	0.41
3:RJ:19:LYS:O	3:RJ:22:GLU:HG3	2.20	0.41
3:RJ:46:ARG:HA	3:RJ:46:ARG:HD3	1.82	0.41
2:SE:35:GLN:HG2	2:SE:59:GLY:O	2.21	0.41
3:SF:100:ASN:CG	3:SF:103:LYS:HG2	2.40	0.41
3:SF:319:GLY:HA2	3:SF:357:PRO:HG3	2.03	0.41
3:SF:395:LEU:O	3:SF:399:THR:HG23	2.21	0.41
2:SG:101:ASN:HA	2:SG:144:GLY:HA2	2.02	0.41
2:SG:234:ILE:CD1	2:SG:272:TYR:HB2	2.51	0.41
2:SG:250:VAL:HB	2:SG:255:PHE:CE1	2.55	0.41
2:SG:317:MET:HA	2:SG:376:CYS:O	2.21	0.41
2:SG:353:VAL:HG12	3:SH:177:ASP:CG	2.41	0.41
3:SH:74:ASP:O	3:SH:77:ARG:HG3	2.21	0.41
2:SI:36:MET:HG3	2:SI:41:THR:OG1	2.20	0.41
3:TF:106:TYR:HB2	3:TF:401:GLU:OE2	2.20	0.41
2:TG:121:ARG:NH1	2:TG:124:LYS:HE2	2.35	0.41
3:TH:68:LEU:HB3	3:TH:95:SER:O	2.20	0.41
2:TI:140:SER:HA	2:TI:170:ALA:HB1	2.01	0.41
3:UD:198:GLU:OE2	3:UD:266:PHE:HD2	2.04	0.41
2:UE:312:TYR:HE2	2:UE:341:ILE:HD12	1.86	0.41
3:UF:86:ARG:NE	3:UF:86:ARG:HA	2.36	0.41
2:UG:257:THR:HA	3:UH:397:TRP:CZ2	2.54	0.41
2:UG:260:VAL:HG13	3:UH:397:TRP:HH2	1.86	0.41
3:UH:215:LEU:O	3:UH:276:ARG:NH1	2.54	0.41
3:VD:151:LEU:O	3:VD:155:ILE:HG12	2.19	0.41
3:VD:303:CYS:SG	3:VD:373:ALA:HB1	2.60	0.41
2:VE:246:GLY:HA2	2:VE:357:TYR:CD2	2.54	0.41
2:VG:103:TYR:HB3	2:VG:189:LEU:HD13	2.03	0.41
3:VH:20:PHE:HA	3:VH:230:SER:HB2	2.02	0.41
2:WE:311:LYS:C	2:WE:381:THR:HG1	2.20	0.41
3:WF:101:TRP:CZ3	3:WF:187:LEU:HD22	2.56	0.41
2:WG:88:HIS:CD2	2:WG:121:ARG:HH22	2.38	0.41
2:WG:384:ILE:HD12	2:WG:388:TRP:CH2	2.56	0.41
3:WH:267:MET:HA	3:WH:268:PRO:HD3	1.83	0.41
3:WH:285:THR:OG1	3:WH:288:GLU:HG3	2.21	0.41
2:WI:166:LYS:O	2:WI:199:ASP:HB2	2.21	0.41
2:WI:328:VAL:O	2:WI:332:ILE:HG23	2.20	0.41
2:WI:395:PHE:HB3	2:WI:422:ARG:NH1	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:XC:33:HIS:CE1	22:XC:50:GLU:HB2	2.55	0.41
22:XC:78:MET:HB3	22:XC:132:ILE:HB	2.02	0.41
22:XE:169:ASP:OD1	22:XE:172:TYR:OH	2.37	0.41
23:XJ:175:ARG:NH2	23:XJ:230:TYR:HE2	2.19	0.41
23:XL:138:LYS:NZ	23:XL:176:GLN:O	2.44	0.41
23:XL:205:ILE:HD12	23:XL:205:ILE:H	1.85	0.41
24:YI:113:LEU:O	24:YI:113:LEU:HD23	2.20	0.41
24:YK:88:SER:O	24:YK:94:ASN:ND2	2.53	0.41
24:YN:90:THR:O	24:YN:93:THR:OG1	2.28	0.41
1:A2:281:HIS:HA	1:A2:284:LYS:HG2	2.03	0.41
2:AE:21:TRP:CZ2	2:AE:65:ALA:HB2	2.55	0.41
2:AE:48:SER:O	2:AE:51:THR:HG22	2.20	0.41
3:AF:19:LYS:NZ	3:AF:227:HIS:HB2	2.36	0.41
3:AF:72:THR:O	3:AF:75:SER:OG	2.29	0.41
3:AF:389:PHE:CE2	3:AF:392:LYS:HD2	2.56	0.41
2:AG:234:ILE:O	2:AG:237:SER:OG	2.30	0.41
3:AH:234:SER:HA	3:AH:237:THR:OG1	2.21	0.41
2:AI:362:VAL:HG21	2:AI:370:LYS:HZ1	1.85	0.41
4:B3:226:LYS:O	4:B3:230:GLU:OE1	2.37	0.41
4:B7:4:LEU:HB3	4:B7:6:PHE:CE1	2.56	0.41
4:B7:293:LEU:O	4:B7:297:ILE:HG12	2.21	0.41
4:B7:297:ILE:O	4:B7:301:GLU:OE1	2.39	0.41
4:B7:307:LYS:HE3	4:B7:307:LYS:HB3	1.89	0.41
4:B8:279:LEU:HB3	4:B8:377:ILE:HD11	2.03	0.41
2:BE:172:TYR:CD1	2:BE:173:PRO:HD2	2.54	0.41
2:BG:172:TYR:CD1	2:BG:173:PRO:HD2	2.55	0.41
2:BG:207:GLU:HB2	2:BG:304:LYS:NZ	2.36	0.41
3:BH:156:ARG:NH1	3:BH:195:ASN:O	2.54	0.41
2:BI:214:ARG:HH12	2:BI:215:ARG:HG3	1.86	0.41
2:BI:244:PHE:CD2	2:BI:358:GLN:HG2	2.55	0.41
5:C7:221:ALA:O	5:C7:225:THR:HG23	2.20	0.41
5:C8:152:ASP:O	5:C8:155:PHE:HB3	2.21	0.41
5:C8:171:THR:HG21	5:C8:251:GLN:NE2	2.36	0.41
5:C8:215:ALA:O	5:C8:219:LEU:HG	2.20	0.41
5:C8:389:LYS:HD3	5:C8:431:ILE:HG12	2.02	0.41
5:C8:438:LEU:O	5:C8:442:GLU:OE1	2.39	0.41
3:CF:12:CYS:HA	3:CF:15:GLN:OE1	2.21	0.41
3:CH:324:LYS:HG3	2:CI:221:ARG:CZ	2.51	0.41
2:CI:151:SER:O	2:CI:155:GLU:HG2	2.20	0.41
2:CI:381:THR:OG1	2:CI:382:THR:N	2.53	0.41
6:D3:270:ARG:CZ	6:D3:270:ARG:HB2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D7:373:ALA:HA	6:D7:376:ARG:NH1	2.35	0.41
6:D8:355:THR:HG22	6:D8:359:GLN:OE1	2.21	0.41
3:DD:412:GLU:HA	3:DD:415:MET:HE3	2.03	0.41
2:DE:107:HIS:HD2	2:DE:152:LEU:HB2	1.83	0.41
2:DE:115:VAL:HG21	2:DE:156:ARG:HD3	2.03	0.41
3:DF:69:GLU:HA	3:DF:70:PRO:HD3	1.90	0.41
3:DF:81:PHE:O	3:DF:84:ILE:HG22	2.20	0.41
3:DF:95:SER:OG	3:DF:108:GLU:OE1	2.27	0.41
3:DF:263:LEU:HD13	3:DF:422:TYR:OH	2.20	0.41
3:DF:293:MET:O	3:DF:299:MET:HE3	2.21	0.41
3:DF:362:LYS:HA	3:DF:362:LYS:HD3	1.91	0.41
2:DG:36:MET:H	2:DG:42:ILE:HD11	1.85	0.41
2:DG:89:PRO:HD2	2:EG:280:LYS:HZ2	1.85	0.41
2:DG:316:CYS:HB2	2:DG:352:LYS:HD3	2.03	0.41
2:DG:406:HIS:CG	2:DG:407:TRP:N	2.89	0.41
3:DH:12:CYS:SG	3:DH:13:GLY:N	2.93	0.41
7:E2:107:PRO:HA	7:E2:110:THR:OG1	2.20	0.41
3:ED:15:GLN:HB3	3:ED:16:ILE:HG12	2.03	0.41
3:ED:16:ILE:HD12	3:ED:229:VAL:HG11	2.02	0.41
3:ED:19:LYS:NZ	3:ED:227:HIS:HB2	2.36	0.41
3:ED:404:ASP:N	3:ED:404:ASP:OD1	2.54	0.41
2:EE:53:PHE:O	2:EE:64:ARG:NH1	2.53	0.41
2:EG:419:SER:O	2:EG:423:GLU:OE1	2.39	0.41
8:F3:229:MET:SD	8:F3:230:ARG:HG3	2.60	0.41
8:F7:421:PHE:O	8:F7:424:ASP:OD1	2.38	0.41
3:FD:329:GLN:O	3:FD:333:VAL:HG22	2.21	0.41
2:FE:5:ILE:HD13	2:FE:5:ILE:HA	1.88	0.41
2:FE:27:GLU:HG2	2:FE:28:HIS:HD1	1.86	0.41
3:FF:176:SER:HB2	3:FF:181:GLU:HG3	2.02	0.41
2:FG:1:MET:O	2:FG:131:GLY:HA3	2.20	0.41
2:FG:186:ASN:O	2:FG:190:THR:HG23	2.20	0.41
9:G1:411:LYS:HG3	9:G1:445:ALA:O	2.20	0.41
9:G2:171:GLY:O	9:G2:172:ILE:HD13	2.21	0.41
10:G5:12:ASN:OD1	10:G5:13:ARG:N	2.51	0.41
10:G5:132:ARG:HB3	10:G5:134:GLN:OE1	2.20	0.41
10:G5:616:LEU:O	10:G5:620:ILE:HG12	2.19	0.41
3:GD:113:VAL:HA	3:GD:116:VAL:HG22	2.02	0.41
2:GE:270:ALA:O	2:GE:271:THR:OG1	2.36	0.41
2:GE:319:TYR:HD2	2:GE:323:VAL:HG11	1.85	0.41
3:GF:178:THR:OG1	3:GF:180:VAL:HG12	2.20	0.41
3:GF:217:LEU:HG	3:GF:219:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:91:GLN:NE2	2:GG:92:LEU:HD12	2.35	0.41
2:GG:320:ARG:HG2	2:GG:358:GLN:O	2.21	0.41
2:GG:389:ALA:HA	2:GG:392:ASP:OD2	2.21	0.41
3:GH:73:MET:O	3:GH:76:VAL:HG22	2.20	0.41
3:GH:242:PHE:CD2	3:GH:356:ILE:HB	2.56	0.41
3:GH:249:ASP:OD1	3:GH:250:LEU:N	2.54	0.41
3:GH:405:GLU:O	3:GH:409:THR:HG23	2.21	0.41
2:GI:66:VAL:CA	2:GI:91:GLN:HE21	2.33	0.41
11:H3:303:SER:HA	11:H3:306:ARG:NE	2.33	0.41
11:H4:238:ASP:OD1	11:H4:242:GLN:NE2	2.53	0.41
3:HD:395:LEU:HD23	3:HD:399:THR:HG23	2.02	0.41
2:HE:16:ILE:HG13	2:HE:17:GLY:N	2.36	0.41
3:HF:293:MET:HA	3:HF:298:ASN:HD22	1.85	0.41
2:HG:205:ASP:O	2:HG:209:ILE:HG12	2.20	0.41
3:HH:267:MET:N	3:HH:267:MET:SD	2.94	0.41
2:IE:50:ASN:O	2:IE:64:ARG:NH1	2.54	0.41
2:IE:260:VAL:O	3:IF:397:TRP:CH2	2.74	0.41
2:IE:304:LYS:HD2	2:IE:304:LYS:N	2.36	0.41
3:IF:40:SER:HB2	3:IF:43:GLN:HG2	2.02	0.41
3:IF:136:THR:HG22	3:IF:167:PHE:HB3	2.03	0.41
3:IF:267:MET:O	3:IF:368:ILE:HD12	2.21	0.41
13:J3:167:MET:SD	13:J3:176:PRO:HA	2.60	0.41
2:JE:45:GLY:O	2:JE:50:ASN:HB3	2.21	0.41
2:JG:292:THR:CG2	2:JG:335:ILE:HD11	2.51	0.41
3:JH:113:VAL:HA	3:JH:116:VAL:HG22	2.03	0.41
3:JH:139:LEU:N	3:JH:168:SER:OG	2.52	0.41
14:K2:189:GLU:HG2	14:K2:190:LYS:N	2.36	0.41
14:K2:349:ARG:O	14:K2:353:THR:HG23	2.20	0.41
14:K2:427:LEU:HA	14:K2:430:GLU:OE1	2.21	0.41
14:K3:375:ARG:HH21	14:K3:423:THR:HA	1.86	0.41
3:KF:28:HIS:HA	3:KF:43:GLN:OE1	2.21	0.41
3:KH:346:PRO:HB2	3:KH:347:ASN:OD1	2.20	0.41
2:KI:6:SER:HB3	2:KI:65:ALA:HB2	2.01	0.41
2:KI:146:GLY:N	25:KI:501:GTP:O2B	2.54	0.41
15:L2:150:ASP:N	15:L2:150:ASP:OD1	2.52	0.41
15:L2:174:ASN:HA	15:L2:177:GLN:OE1	2.21	0.41
15:L2:199:GLY:O	15:L2:203:ASN:ND2	2.43	0.41
15:L3:232:LYS:HG2	15:L3:235:LYS:HE3	2.02	0.41
3:LD:392:LYS:HB2	3:LD:395:LEU:HD13	2.03	0.41
2:LE:254:GLU:HG3	3:LF:98:GLY:HA2	2.02	0.41
3:LF:293:MET:HE2	3:LF:294:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:330:MET:O	3:LF:331:LEU:C	2.59	0.41
3:LF:374:ILE:O	3:LF:374:ILE:HG22	2.21	0.41
3:LH:222:TYR:CZ	25:LH:501:GTP:C5	3.09	0.41
2:LI:30:ILE:CD1	2:LI:36:MET:HE3	2.49	0.41
2:ME:185:TYR:O	2:ME:189:LEU:HG	2.21	0.41
2:ME:206:ASN:HA	2:ME:209:ILE:HD12	2.01	0.41
2:ME:362:VAL:HA	2:ME:368:LEU:HD11	2.02	0.41
3:MF:8:GLN:NE2	3:MF:17:GLY:HA3	2.35	0.41
3:MF:31:ASP:OD1	3:MF:31:ASP:N	2.52	0.41
3:MF:232:THR:HG22	3:MF:270:PHE:CD1	2.56	0.41
3:MH:20:PHE:CE1	3:MH:24:ILE:HD11	2.56	0.41
3:MH:182:PRO:HB2	3:MH:388:MET:HE2	2.01	0.41
3:MH:284:LEU:HD12	3:MH:284:LEU:HA	1.94	0.41
3:MH:310:TYR:HB2	3:MH:341:PHE:CD1	2.55	0.41
3:MH:347:ASN:ND2	2:MI:176:GLN:O	2.53	0.41
2:MI:53:PHE:CD1	2:MI:61:HIS:HB3	2.56	0.41
17:N2:70:ASP:HA	17:N2:74:ARG:NH1	2.36	0.41
3:ND:3:GLU:OE2	3:ND:127:CYS:HB2	2.21	0.41
3:ND:12:CYS:O	3:ND:15:GLN:HB3	2.20	0.41
3:ND:15:GLN:NE2	3:ND:222:TYR:CD2	2.76	0.41
3:NF:375:GLN:O	3:NF:379:LYS:CB	2.69	0.41
3:NH:25:SER:HA	3:NH:30:ILE:HD13	2.01	0.41
18:O1:90:ASP:O	18:O1:93:THR:OG1	2.25	0.41
2:OE:124:LYS:HA	2:OE:127:ASP:OD2	2.21	0.41
2:OE:239:THR:O	2:OE:243:ARG:HG2	2.21	0.41
3:OF:3:GLU:HB2	3:OF:62:ARG:NH2	2.35	0.41
3:OF:40:SER:HB3	3:OF:42:LEU:HD23	2.01	0.41
3:OF:186:THR:HG22	3:OF:415:MET:SD	2.61	0.41
3:OF:211:CYS:SG	3:OF:220:PRO:HG3	2.61	0.41
3:OF:303:CYS:O	3:OF:305:PRO:HD3	2.21	0.41
2:OG:329:ASN:OD1	2:OG:330:ALA:N	2.54	0.41
2:OG:416:GLY:O	2:OG:420:GLU:HG2	2.20	0.41
3:OH:204:ASN:OD1	3:OH:205:GLU:N	2.54	0.41
3:OH:324:LYS:HE2	2:OI:222:PRO:CD	2.51	0.41
2:OI:207:GLU:HB2	2:OI:304:LYS:NZ	2.36	0.41
19:P1:572:TRP:NE1	19:P1:579:VAL:HG22	2.36	0.41
19:P1:612:LEU:HB3	19:P1:614:TRP:NE1	2.35	0.41
19:P2:30:LEU:O	19:P2:31:LYS:HD3	2.20	0.41
19:P2:387:LYS:HD2	19:P2:403:PRO:HG3	2.01	0.41
2:PE:42:ILE:HG12	2:PE:55:GLU:OE2	2.21	0.41
2:PE:119:LEU:HD11	2:PE:156:ARG:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:352:LYS:HD2	2:PE:352:LYS:HA	1.88	0.41
3:PF:56:GLY:N	24:YJ:59:ASN:OD1	2.53	0.41
3:PF:193:VAL:HG11	3:PF:414:ASN:ND2	2.36	0.41
2:PG:312:TYR:O	2:PG:344:VAL:N	2.46	0.41
3:PH:109:GLY:O	3:PH:113:VAL:HG13	2.21	0.41
3:PH:293:MET:SD	3:PH:365:ALA:HB3	2.61	0.41
2:PI:16:ILE:HG22	2:PI:228:ASN:OD1	2.21	0.41
20:Q2:1488:GLU:O	20:Q2:1492:HIS:CD2	2.74	0.41
2:QE:70:LEU:HB2	2:QE:145:THR:CG2	2.50	0.41
2:QE:138:PHE:CD1	2:QE:169:PHE:HB3	2.55	0.41
2:QE:211:ASP:C	2:QE:215:ARG:HE	2.24	0.41
2:QE:213:CYS:HA	2:QE:217:LEU:HB2	2.02	0.41
3:QF:19:LYS:O	3:QF:22:GLU:HG3	2.21	0.41
3:QF:274:THR:HG23	3:QF:278:SER:OG	2.20	0.41
3:QH:324:LYS:HE2	2:QI:222:PRO:CD	2.51	0.41
2:RE:1:MET:O	2:RE:131:GLY:HA3	2.20	0.41
2:RE:392:ASP:HA	2:RE:395:PHE:HD2	1.86	0.41
3:RF:69:GLU:HA	3:RF:70:PRO:HD3	1.94	0.41
2:RG:280:LYS:HD2	2:RG:283:HIS:NE2	2.36	0.41
3:RH:396:HIS:HA	3:RH:399:THR:OG1	2.21	0.41
2:RI:19:ALA:O	2:RI:23:LEU:HG	2.21	0.41
2:RI:25:CYS:SG	2:RI:26:LEU:HD22	2.61	0.41
2:RI:75:VAL:HG11	2:RI:94:THR:HB	2.03	0.41
3:SF:255:VAL:HA	2:SG:407:TRP:CE2	2.55	0.41
2:SG:211:ASP:O	2:SG:214:ARG:HD3	2.20	0.41
3:SH:154:LYS:O	3:SH:158:GLU:HG3	2.20	0.41
2:SI:261:PRO:O	3:SJ:394:PHE:HA	2.20	0.41
2:SI:312:TYR:CE2	2:SI:341:ILE:HG23	2.56	0.41
2:SI:399:TYR:OH	2:SI:415:GLU:HB2	2.20	0.41
3:SJ:2:ARG:HH12	3:SJ:251:ARG:HH21	1.69	0.41
3:SJ:238:THR:O	3:SJ:242:PHE:N	2.54	0.41
3:SJ:392:LYS:HD2	3:SJ:392:LYS:O	2.20	0.41
3:TF:31:ASP:OD1	3:TF:35:THR:N	2.53	0.41
3:TF:222:TYR:HA	3:TF:225:LEU:HD13	2.02	0.41
3:TF:251:ARG:O	3:TF:255:VAL:HG22	2.21	0.41
3:TF:405:GLU:O	3:TF:409:THR:HG23	2.21	0.41
2:TG:2:ARG:NE	2:TG:242:LEU:HG	2.35	0.41
2:TG:220:GLU:OE1	2:TG:220:GLU:N	2.46	0.41
2:TG:330:ALA:O	2:TG:334:THR:HG23	2.21	0.41
3:TH:6:HIS:CD2	3:TH:134:GLN:HG2	2.56	0.41
3:TH:122:LYS:O	3:TH:125:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:282:ARG:NH2	3:TH:288:GLU:OE1	2.53	0.41
2:TI:137:ILE:N	2:TI:167:LEU:O	2.31	0.41
3:TJ:171:PRO:HG3	3:TJ:181:GLU:OE2	2.20	0.41
3:UD:51:TYR:CD1	3:UD:61:PRO:HA	2.55	0.41
3:UD:178:THR:HG22	3:UD:181:GLU:H	1.85	0.41
3:UD:267:MET:HA	3:UD:268:PRO:HD3	1.79	0.41
3:UD:284:LEU:HD21	3:UD:363:MET:H	1.86	0.41
3:UD:344:TRP:CZ2	2:UE:401:LYS:HD2	2.55	0.41
2:UE:104:ALA:HB1	2:UE:413:MET:CE	2.51	0.41
3:UF:53:GLU:HB2	3:UF:59:TYR:CE1	2.55	0.41
3:UF:244:GLY:O	3:UF:246:LEU:HD23	2.21	0.41
3:UF:284:LEU:HD12	3:UF:284:LEU:HA	1.89	0.41
3:UF:374:ILE:HD12	3:UF:374:ILE:H	1.85	0.41
2:UG:3:GLU:N	2:UG:133:GLN:OE1	2.54	0.41
2:UG:304:LYS:HD2	2:UG:304:LYS:N	2.36	0.41
3:UH:260:PHE:HB2	3:UH:263:LEU:HD23	2.03	0.41
3:UH:318:ARG:HB3	3:UH:364:SER:OG	2.21	0.41
3:VD:187:LEU:O	3:VD:191:GLN:NE2	2.53	0.41
2:VE:135:PHE:HD2	2:VE:166:LYS:HG3	1.86	0.41
2:VE:260:VAL:HG13	3:VF:397:TRP:CH2	2.56	0.41
2:VE:392:ASP:OD1	2:VE:393:HIS:N	2.53	0.41
2:VE:396:ASP:N	2:VE:396:ASP:OD1	2.54	0.41
2:VG:189:LEU:O	2:VG:192:HIS:ND1	2.53	0.41
2:VG:321:GLY:HA3	2:VG:372:GLN:O	2.20	0.41
2:VG:417:GLU:O	2:VG:420:GLU:HG3	2.21	0.41
3:VH:252:LYS:HA	3:VH:255:VAL:HG22	2.03	0.41
3:VH:324:LYS:O	3:VH:328:GLU:HG3	2.21	0.41
2:WE:425:LEU:O	2:WE:429:GLU:OE1	2.39	0.41
2:WG:31:GLN:HE22	2:WG:37:PRO:HD3	1.85	0.41
2:WG:141:PHE:CE2	2:WG:172:TYR:HD1	2.39	0.41
2:WG:397:LEU:HB3	2:WG:401:LYS:NZ	2.35	0.41
2:WG:425:LEU:HD12	2:WG:428:LEU:HD12	2.03	0.41
2:WG:430:LYS:HA	2:WG:433:GLU:OE2	2.21	0.41
3:WH:324:LYS:HB3	3:WH:324:LYS:HE3	1.85	0.41
2:WI:280:LYS:HA	2:WI:280:LYS:HD2	1.76	0.41
2:WI:324:VAL:HG22	2:WI:327:ASP:OD2	2.21	0.41
24:YN:149:LYS:O	24:YN:152:ILE:HG22	2.20	0.41
1:A2:269:LYS:O	1:A2:272:LYS:HG2	2.20	0.41
1:A3:206:ARG:HH12	1:A3:208:GLU:HA	1.86	0.41
2:AE:260:VAL:HG13	3:AF:397:TRP:HH2	1.84	0.41
2:AE:418:PHE:HB3	2:AE:422:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:40:SER:HB2	3:AF:43:GLN:CD	2.41	0.41
3:AF:345:ILE:HG13	3:AF:346:PRO:O	2.20	0.41
2:AG:251:ASP:OD2	2:AG:253:THR:N	2.34	0.41
2:AG:354:GLY:O	2:AG:355:ILE:HD13	2.21	0.41
2:AG:406:HIS:CD2	2:AG:406:HIS:H	2.39	0.41
2:AI:48:SER:O	2:AI:51:THR:HG22	2.20	0.41
2:AI:53:PHE:CB	2:AI:61:HIS:HB3	2.51	0.41
2:AI:81:GLY:O	2:AI:84:ARG:NH1	2.54	0.41
2:AI:107:HIS:NE2	2:AI:152:LEU:HD12	2.36	0.41
2:AI:304:LYS:HD2	2:AI:304:LYS:N	2.36	0.41
4:B3:104:GLN:HG3	6:D3:161:ARG:NH1	2.31	0.41
4:B3:172:LEU:HD23	4:B3:172:LEU:HA	1.86	0.41
4:B3:258:ARG:O	4:B3:261:THR:OG1	2.32	0.41
4:B7:8:PRO:HD2	6:D7:330:THR:HG21	2.02	0.41
4:B8:111:ASP:O	4:B8:115:GLU:HB2	2.21	0.41
2:BE:76:ASP:HA	2:BE:79:ARG:NE	2.32	0.41
2:BE:228:ASN:HA	2:BE:231:ILE:HG12	2.03	0.41
3:BF:288:GLU:OE2	3:BF:289:LEU:HD12	2.21	0.41
3:BF:405:GLU:O	3:BF:409:THR:HG23	2.20	0.41
2:BG:88:HIS:HE1	2:BG:90:GLU:CD	2.24	0.41
2:BG:174:ALA:HB1	2:BG:207:GLU:OE2	2.21	0.41
3:BH:156:ARG:HD2	3:BH:156:ARG:HA	1.80	0.41
3:BH:262:ARG:HH21	3:BH:418:LEU:HD23	1.86	0.41
2:BI:181:VAL:HG21	2:BI:404:PHE:CZ	2.55	0.41
5:C4:407:PRO:O	5:C4:411:LEU:N	2.48	0.41
5:C7:149:ARG:NH1	5:C8:414:ASP:OD2	2.53	0.41
2:CG:175:PRO:O	2:CG:390:ARG:HD3	2.20	0.41
2:CG:318:LEU:O	2:CG:375:VAL:HG23	2.21	0.41
2:CI:263:PRO:HB2	2:CI:264:ARG:NH1	2.34	0.41
6:D3:205:ARG:HH12	7:E2:136:CYS:HB3	1.85	0.41
6:D3:221:VAL:HG12	6:D4:364:PRO:HD2	2.01	0.41
6:D3:327:THR:O	6:D3:330:THR:OG1	2.32	0.41
6:D3:384:LEU:O	6:D3:388:LEU:HD23	2.21	0.41
6:D7:350:LEU:HD13	6:D7:384:LEU:HD13	2.03	0.41
6:D8:70:ASP:O	6:D8:73:TYR:HB3	2.21	0.41
6:D8:385:ASN:O	6:D8:388:LEU:HG	2.20	0.41
6:D9:69:ALA:HA	6:D9:72:ASP:OD2	2.21	0.41
3:DD:87:PRO:HA	3:DD:90:PHE:CD2	2.56	0.41
3:DD:185:ALA:O	3:DD:189:VAL:HG13	2.21	0.41
3:DD:418:LEU:HD23	3:DD:418:LEU:HA	1.96	0.41
3:DF:221:THR:O	3:DF:225:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DG:260:VAL:HA	2:DG:261:PRO:HD3	1.94	0.41
3:DH:213:ARG:HD3	3:DH:213:ARG:HA	1.89	0.41
2:EE:3:GLU:CD	2:EE:132:LEU:H	2.24	0.41
2:EG:5:ILE:HB	2:EG:135:PHE:CD1	2.56	0.41
2:EG:40:LYS:CE	9:G2:421:ARG:HH22	2.34	0.41
2:EG:56:THR:HB	2:FG:285:GLN:HG3	2.02	0.41
3:EH:227:HIS:HB3	9:G2:387:TYR:CE1	2.55	0.41
8:F7:218:GLU:HA	8:F7:221:LEU:HG	2.02	0.41
8:F7:224:CYS:O	8:F7:228:GLN:OE1	2.39	0.41
8:F7:432:LEU:HD23	8:F7:433:ARG:HD2	2.02	0.41
2:FE:363:VAL:HG13	2:FE:366:GLY:HA3	2.01	0.41
2:FG:16:ILE:HD11	2:FG:138:PHE:HB3	2.02	0.41
2:FG:280:LYS:O	2:FG:284:GLU:HB2	2.21	0.41
3:FH:233:MET:O	3:FH:237:THR:HG23	2.21	0.41
9:G2:124:TYR:CZ	9:G2:165:TRP:HB3	2.55	0.41
10:G5:502:ILE:HG23	10:G5:506:GLU:OE2	2.21	0.41
10:G5:630:ASN:ND2	10:G5:668:PRO:HB2	2.36	0.41
10:G5:712:TYR:CG	10:G5:715:GLU:HG3	2.55	0.41
10:G5:714:LYS:NZ	10:G5:720:VAL:HG13	2.36	0.41
3:GD:238:THR:HA	3:GD:241:ARG:NH1	2.36	0.41
2:GE:362:VAL:HA	2:GE:368:LEU:HD11	2.02	0.41
2:GE:408:TYR:HA	2:GE:411:GLU:HG3	2.02	0.41
3:GF:21:TRP:CZ2	3:GF:63:ALA:HB2	2.54	0.41
3:GF:286:VAL:HA	3:GF:289:LEU:HG	2.02	0.41
2:GG:50:ASN:O	2:GG:64:ARG:NH1	2.49	0.41
3:GH:278:SER:O	3:GH:282:ARG:CB	2.66	0.41
3:GH:324:LYS:HE3	3:GH:324:LYS:HB3	1.85	0.41
2:GI:16:ILE:CG2	2:GI:231:ILE:HD11	2.51	0.41
11:H3:37:ARG:HG2	11:H3:37:ARG:NH1	2.36	0.41
11:H4:216:LYS:HG2	11:H4:236:TYR:HD2	1.86	0.41
3:HD:416:ASN:HA	3:HD:419:VAL:HG23	2.03	0.41
2:HG:30:ILE:HA	2:HG:36:MET:CE	2.51	0.41
2:HI:54:SER:OG	2:HI:64:ARG:NE	2.53	0.41
2:IG:30:ILE:HD12	2:IG:36:MET:HE3	2.02	0.41
2:IG:166:LYS:O	2:IG:199:ASP:HB2	2.21	0.41
2:II:135:PHE:CZ	2:II:164:LYS:HD2	2.55	0.41
2:II:211:ASP:HA	2:II:214:ARG:NE	2.36	0.41
13:J2:143:ARG:NH1	13:J2:182:GLU:OE2	2.41	0.41
13:J2:171:PRO:HG3	13:J2:187:GLU:CD	2.40	0.41
3:JD:325:GLU:HB3	2:JE:221:ARG:NH1	2.36	0.41
2:JE:192:HIS:CE1	2:JE:193:THR:HG23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:388:TRP:CD1	2:JE:432:TYR:HE2	2.39	0.41
3:JF:348:ASN:OD1	3:JF:348:ASN:N	2.51	0.41
2:JG:88:HIS:HA	2:JG:89:PRO:HD3	1.94	0.41
2:JG:283:HIS:ND1	2:JG:284:GLU:OE1	2.53	0.41
3:JH:156:ARG:HD3	3:JH:164:MET:HG2	2.03	0.41
14:K2:486:PRO:HA	14:K2:487:PRO:HD3	1.91	0.41
14:K3:204:LYS:HD3	14:K3:207:LYS:HZ1	1.85	0.41
3:KD:3:GLU:OE2	3:KD:128:ASP:N	2.54	0.41
3:KF:47:ILE:CD1	3:KF:241:ARG:HH21	2.34	0.41
3:KF:289:LEU:HD13	3:KF:363:MET:HG2	2.03	0.41
3:KH:86:ARG:HA	3:KH:86:ARG:CZ	2.50	0.41
3:KH:155:ILE:HD13	3:KH:155:ILE:HA	1.91	0.41
3:KH:325:GLU:HA	3:KH:328:GLU:HG3	2.02	0.41
2:KI:132:LEU:HD13	2:KI:164:LYS:CE	2.51	0.41
3:LD:31:ASP:OD1	3:LD:35:THR:N	2.54	0.41
2:LE:116:ASP:N	2:LE:116:ASP:OD1	2.54	0.41
2:LE:260:VAL:HG23	2:LE:265:ILE:O	2.21	0.41
3:LF:204:ASN:HA	3:LF:207:LEU:HD12	2.01	0.41
2:LG:75:VAL:HA	2:LG:78:VAL:HG22	2.03	0.41
2:LG:354:GLY:O	2:LG:355:ILE:HD13	2.21	0.41
2:LG:356:ASN:OD1	2:LG:358:GLN:N	2.48	0.41
3:LH:379:LYS:HE3	3:LH:379:LYS:HB2	1.91	0.41
2:ME:6:SER:HG	2:ME:8:HIS:CD2	2.39	0.41
3:MF:306:ARG:O	3:MF:306:ARG:NE	2.53	0.41
3:MF:331:LEU:HD11	2:MG:176:GLN:OE1	2.20	0.41
3:MF:385:PHE:HA	3:MF:388:MET:CE	2.50	0.41
2:MG:318:LEU:O	2:MG:375:VAL:HA	2.21	0.41
3:MH:269:GLY:HA3	3:MH:367:PHE:HB3	2.01	0.41
2:MI:2:ARG:HG2	2:MI:242:LEU:HG	2.02	0.41
2:MI:42:ILE:CG2	2:MI:59:GLY:HA2	2.51	0.41
2:MI:326:LYS:HE3	2:MI:326:LYS:HB3	1.88	0.41
2:MI:405:VAL:O	2:MI:409:VAL:HG22	2.20	0.41
2:NE:166:LYS:HB2	2:NE:199:ASP:CG	2.41	0.41
2:NE:256:GLN:NE2	3:NF:397:TRP:HE1	2.19	0.41
3:NF:3:GLU:HA	3:NF:49:VAL:HG23	2.01	0.41
3:NF:162:ARG:HA	3:NF:162:ARG:HD3	1.92	0.41
2:NG:397:LEU:O	2:NG:401:LYS:NZ	2.51	0.41
3:NH:105:HIS:HB3	3:NH:106:TYR:CD1	2.55	0.41
3:NH:199:THR:CB	3:NH:264:HIS:O	2.68	0.41
2:NI:69:ASP:OD1	2:NI:70:LEU:N	2.53	0.41
18:O2:56:SER:O	18:O2:58:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:6:HIS:HA	3:OD:134:GLN:O	2.20	0.41
2:OE:286:LEU:H	2:OE:286:LEU:HD23	1.86	0.41
2:OE:320:ARG:HD3	2:OE:360:PRO:HG3	2.03	0.41
2:OG:98:ASP:OD1	2:OG:100:ALA:N	2.36	0.41
2:OI:103:TYR:HB2	2:OI:186:ASN:HB2	2.03	0.41
2:OI:251:ASP:HB3	2:OI:254:GLU:OE1	2.20	0.41
2:OI:288:VAL:HG23	2:OI:319:TYR:OH	2.20	0.41
19:P1:16:LEU:HD21	19:P1:19:VAL:HG12	2.03	0.41
19:P1:162:THR:OG1	19:P1:178:GLY:HA2	2.20	0.41
19:P1:340:PHE:CD1	19:P1:594:ARG:HD2	2.56	0.41
19:P2:45:CYS:H	19:P2:587:SER:HB3	1.85	0.41
19:P2:218:SER:HA	19:P2:235:LYS:HZ1	1.85	0.41
19:P2:387:LYS:HA	19:P2:387:LYS:HD2	1.87	0.41
2:PE:287:SER:N	2:PE:290:GLU:OE2	2.54	0.41
3:PF:109:GLY:O	3:PF:113:VAL:HG13	2.21	0.41
2:PG:19:ALA:O	2:PG:22:GLU:HB2	2.21	0.41
2:PG:349:THR:HG23	3:PH:179:VAL:HG12	2.02	0.41
2:PI:401:LYS:HE3	2:PI:401:LYS:HB3	1.91	0.41
20:Q1:1423:ALA:N	20:Q1:1509:ASP:OD2	2.54	0.41
20:Q2:1437:TYR:HB3	20:Q2:1440:LEU:CD1	2.50	0.41
20:Q2:1487:GLU:OE1	20:Q2:1487:GLU:N	2.36	0.41
2:QE:316:CYS:HB3	2:QE:378:LEU:HB2	2.02	0.41
3:QF:150:LEU:O	3:QF:153:SER:OG	2.31	0.41
3:QF:221:THR:N	3:QF:224:ASP:OD2	2.45	0.41
3:QF:245:GLN:NE2	2:QG:11:GLN:OE1	2.53	0.41
3:QF:377:LEU:O	3:QF:380:ARG:HB2	2.21	0.41
2:QG:21:TRP:CE3	2:QG:24:TYR:HD2	2.39	0.41
2:QG:272:TYR:CE1	2:QG:374:ALA:HB1	2.56	0.41
2:QG:390:ARG:HA	2:QG:393:HIS:NE2	2.36	0.41
3:QH:290:THR:HG21	3:QH:329:GLN:HB3	2.03	0.41
2:RE:215:ARG:HH22	2:RE:300:ASN:ND2	2.11	0.41
3:RF:186:THR:HG21	3:RF:408:PHE:CE2	2.55	0.41
3:RF:249:ASP:O	3:RF:253:LEU:HG	2.20	0.41
3:RH:309:ARG:HD2	3:RH:340:TYR:HA	2.03	0.41
3:RH:349:VAL:O	3:RH:350:LYS:NZ	2.33	0.41
2:RI:390:ARG:O	2:RI:394:LYS:HG2	2.21	0.41
2:SE:189:LEU:O	2:SE:192:HIS:ND1	2.53	0.41
2:SE:255:PHE:HA	2:SE:352:LYS:NZ	2.35	0.41
3:SF:246:LEU:HB3	3:SF:353:VAL:O	2.21	0.41
2:SG:137:ILE:O	2:SG:169:PHE:N	2.52	0.41
2:SG:284:GLU:HB3	2:SG:285:GLN:H	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:406:HIS:HA	2:SG:409:VAL:HG22	2.01	0.41
2:SG:419:SER:O	2:SG:422:ARG:HG2	2.21	0.41
3:SH:145:SER:O	3:SH:149:THR:HG23	2.20	0.41
3:SH:313:VAL:HG12	3:SH:367:PHE:HZ	1.84	0.41
2:SI:336:LYS:HE2	3:SJ:175:VAL:HB	2.03	0.41
3:SJ:6:HIS:HB3	3:SJ:21:TRP:HZ2	1.85	0.41
3:TF:116:VAL:O	3:TF:120:VAL:HG13	2.21	0.41
3:TF:117:LEU:HB3	3:TF:121:ARG:NH1	2.36	0.41
3:TF:294:PHE:HZ	3:TF:310:TYR:OH	2.04	0.41
2:TG:51:THR:HG23	2:TG:52:PHE:CG	2.56	0.41
3:TJ:273:LEU:H	3:TJ:292:GLN:HE22	1.68	0.41
3:UD:28:HIS:HB2	3:UD:30:ILE:HD12	2.03	0.41
2:UE:23:LEU:HD13	2:UE:229:ARG:HH11	1.85	0.41
2:UE:415:GLU:HA	2:UE:418:PHE:CD1	2.55	0.41
2:UG:82:THR:O	2:UG:85:GLN:NE2	2.47	0.41
3:VD:134:GLN:HB2	3:VD:165:ASN:ND2	2.35	0.41
3:VD:172:SER:HB3	3:VD:175:VAL:O	2.21	0.41
3:VD:385:PHE:CE2	3:VD:412:GLU:HB3	2.56	0.41
2:VE:371:VAL:HG21	2:VE:374:ALA:HB2	2.02	0.41
2:VE:408:TYR:O	2:VE:411:GLU:HG3	2.21	0.41
3:VF:135:LEU:HD21	3:VF:151:LEU:HD11	2.02	0.41
2:VG:107:HIS:HA	2:VG:152:LEU:HD23	2.03	0.41
2:VG:429:GLU:O	2:VG:433:GLU:HG3	2.21	0.41
3:VH:36:TYR:CG	3:VH:37:HIS:N	2.88	0.41
3:WF:46:ARG:HG3	3:WF:241:ARG:O	2.21	0.41
3:WH:2:ARG:HB3	3:WH:131:GLN:CD	2.40	0.41
2:WI:186:ASN:HA	2:WI:189:LEU:HD12	2.02	0.41
2:WI:370:LYS:H	2:WI:370:LYS:HG2	1.71	0.41
22:XC:24:ILE:HG13	22:XC:62:PRO:HA	2.03	0.41
22:XC:69:LEU:HG	22:XC:152:LEU:C	2.41	0.41
22:XC:94:LEU:HD13	22:XC:100:ARG:HD2	2.03	0.41
22:XD:80:ILE:HD12	22:XD:161:ARG:O	2.20	0.41
22:XD:89:PHE:HZ	22:XD:134:PHE:HZ	1.68	0.41
23:XJ:218:ARG:HE	23:XJ:218:ARG:HB3	1.71	0.41
23:XK:93:LEU:N	23:XK:94:PRO:HD2	2.36	0.41
1:A2:238:LEU:O	1:A2:242:VAL:HG23	2.20	0.41
3:AF:10:GLY:O	3:AF:14:ASN:ND2	2.54	0.41
3:AF:111:GLU:O	3:AF:112:LEU:HD22	2.20	0.41
3:AF:164:MET:SD	3:AF:164:MET:O	2.78	0.41
3:AF:405:GLU:O	3:AF:409:THR:HG23	2.20	0.41
2:AG:52:PHE:HE2	2:AG:243:ARG:HH11	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:99:ALA:HA	2:AG:105:ARG:HE	1.84	0.41
3:AH:84:ILE:C	3:AH:86:ARG:HH22	2.24	0.41
2:AI:82:THR:O	2:AI:85:GLN:NE2	2.39	0.41
2:AI:209:ILE:CG2	2:AI:227:LEU:HG	2.51	0.41
4:B3:187:ARG:NH1	4:B3:187:ARG:HG3	2.35	0.41
4:B3:391:MET:O	4:B3:395:ARG:NH1	2.54	0.41
4:B8:373:ILE:O	4:B8:377:ILE:HG12	2.20	0.41
2:BE:136:LEU:HB3	2:BE:138:PHE:CE2	2.56	0.41
2:BE:196:GLU:HG2	2:BE:197:HIS:ND1	2.36	0.41
2:BE:297:GLU:CD	2:BE:299:ALA:H	2.24	0.41
2:BE:399:TYR:OH	2:BE:415:GLU:HG3	2.20	0.41
2:BE:420:GLU:HA	2:BE:423:GLU:OE2	2.21	0.41
2:BG:288:VAL:HA	2:BG:291:ILE:HG12	2.02	0.41
2:BG:392:ASP:OD1	2:BG:393:HIS:N	2.53	0.41
2:BG:425:LEU:HD12	2:BG:425:LEU:HA	1.76	0.41
3:BH:379:LYS:O	3:BH:383:GLU:OE1	2.39	0.41
2:BI:75:VAL:HA	2:BI:78:VAL:HG12	2.02	0.41
5:C2:308:VAL:O	5:C2:311:SER:OG	2.24	0.41
5:C4:403:ARG:NH2	5:C4:412:CYS:SG	2.94	0.41
5:C8:249:SER:O	5:C8:253:GLU:OE1	2.39	0.41
5:C8:389:LYS:HE3	5:C8:434:LEU:HD22	2.02	0.41
3:CF:204:ASN:HA	3:CF:207:LEU:HG	2.03	0.41
2:CG:71:GLU:OE1	2:CG:71:GLU:N	2.53	0.41
2:CG:338:LYS:HZ1	2:CG:340:THR:HG23	1.86	0.41
3:CH:318:ARG:HG2	3:CH:357:PRO:HA	2.03	0.41
2:CI:22:GLU:O	2:CI:26:LEU:HD23	2.21	0.41
2:CI:45:GLY:O	2:CI:50:ASN:HB3	2.20	0.41
3:CJ:103:LYS:HA	3:CJ:103:LYS:HD3	1.86	0.41
6:D3:195:GLY:O	6:D3:198:VAL:HG22	2.20	0.41
6:D3:231:TYR:CE1	6:D4:356:ARG:HD2	2.56	0.41
6:D3:439:SER:OG	6:D3:442:GLN:HG2	2.21	0.41
6:D8:368:LEU:HD11	6:D9:251:ALA:HB3	2.01	0.41
6:D8:431:MET:SD	6:D8:435:ASN:ND2	2.93	0.41
2:DE:84:ARG:HB2	11:H3:282:ILE:HD11	2.03	0.41
3:DF:114:ASP:OD1	3:DF:115:SER:N	2.52	0.41
3:DF:133:PHE:H	3:DF:164:MET:HE2	1.85	0.41
2:DG:11:GLN:OE1	25:DG:501:GTP:PB	2.79	0.41
3:DH:59:TYR:O	3:DH:84:ILE:HD11	2.21	0.41
7:E2:172:LEU:HB3	7:E2:174:GLN:OE1	2.20	0.41
3:ED:40:SER:HB2	3:ED:43:GLN:CG	2.47	0.41
3:ED:235:GLY:HA2	3:ED:318:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:116:ASP:OD1	2:EE:117:LEU:N	2.51	0.41
2:EE:156:ARG:HA	2:EE:159:VAL:HG22	2.02	0.41
3:EF:266:PHE:CB	3:EF:368:ILE:HD11	2.48	0.41
3:EF:292:GLN:HA	3:EF:295:ASP:OD2	2.21	0.41
3:EF:310:TYR:HD1	3:EF:371:SER:HB2	1.84	0.41
2:EG:2:ARG:HG2	2:EG:242:LEU:HD23	2.02	0.41
2:EG:188:ILE:HD12	2:EG:191:THR:OG1	2.21	0.41
3:EH:217:LEU:HD12	3:EH:219:THR:H	1.85	0.41
8:F2:143:GLY:O	8:F2:146:LEU:HB3	2.21	0.41
8:F2:360:GLN:O	8:F2:363:LYS:HG2	2.21	0.41
8:F6:117:THR:CG2	8:F7:374:THR:HG21	2.51	0.41
8:F7:385:LYS:HZ3	8:F7:388:PRO:HG2	1.85	0.41
3:FD:117:LEU:HD11	3:FD:154:LYS:HD3	2.03	0.41
3:FD:322:SER:OG	3:FD:324:LYS:NZ	2.51	0.41
2:FE:6:SER:HB3	2:FE:65:ALA:HB2	2.02	0.41
2:FE:254:GLU:O	2:FE:258:ASN:ND2	2.33	0.41
2:FE:356:ASN:OD1	2:FE:357:TYR:N	2.53	0.41
2:FG:425:LEU:HD12	2:FG:425:LEU:HA	1.77	0.41
9:G1:422:TYR:HB2	9:G1:440:PHE:HB2	2.03	0.41
9:G1:438:PHE:HE1	9:G1:453:GLU:HB2	1.86	0.41
9:G2:489:ASP:OD1	9:G2:490:PHE:N	2.54	0.41
9:G2:509:ASP:OD1	9:G2:510:GLU:N	2.53	0.41
10:G5:621:ALA:HB1	10:G5:705:PRO:HD2	2.03	0.41
3:GD:217:LEU:O	3:GD:219:THR:N	2.51	0.41
3:GF:196:THR:HG21	3:GF:199:THR:CG2	2.50	0.41
3:GF:217:LEU:HD11	3:GF:220:PRO:HB3	2.02	0.41
2:GG:260:VAL:HG13	3:GH:397:TRP:CH2	2.56	0.41
2:GG:292:THR:HA	2:GG:295:CYS:SG	2.61	0.41
2:GG:431:ASP:HA	2:GG:434:GLU:HG3	2.03	0.41
3:GH:72:THR:O	3:GH:76:VAL:HG13	2.21	0.41
3:GH:418:LEU:HA	3:GH:421:GLU:OE1	2.20	0.41
2:GI:91:GLN:HB2	2:GI:121:ARG:HH21	1.84	0.41
2:GI:252:LEU:HA	2:GI:255:PHE:HB2	2.01	0.41
2:HE:174:ALA:HB3	2:HE:177:VAL:HB	2.02	0.41
2:HE:388:TRP:CD1	2:HE:425:LEU:HD11	2.54	0.41
2:HG:89:PRO:HD2	2:IG:280:LYS:HZ2	1.86	0.41
3:HH:117:LEU:HB3	3:HH:121:ARG:NH2	2.36	0.41
2:HI:15:GLN:HG3	2:HI:228:ASN:HD21	1.86	0.41
2:HI:286:LEU:HD11	2:HI:372:GLN:H	1.85	0.41
2:HI:311:LYS:NZ	2:HI:342:GLN:HB3	2.36	0.41
2:IE:25:CYS:SG	2:IE:26:LEU:HD22	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:2:ARG:HB3	3:IF:131:GLN:CD	2.41	0.41
2:IG:55:GLU:HG3	2:IG:60:LYS:C	2.41	0.41
2:IG:229:ARG:NH1	2:IG:363:VAL:HG11	2.36	0.41
2:IG:334:THR:O	2:IG:337:THR:OG1	2.29	0.41
3:IH:1:MET:O	3:IH:129:CYS:HB2	2.20	0.41
3:IH:344:TRP:HA	2:II:401:LYS:NZ	2.36	0.41
2:II:47:ASP:HB3	2:II:49:PHE:CE1	2.56	0.41
3:JD:138:SER:HB3	3:JD:141:GLY:HA3	2.03	0.41
2:JE:318:LEU:HD13	2:JE:318:LEU:HA	1.97	0.41
2:JG:100:ALA:HB3	2:JG:105:ARG:HD3	2.03	0.41
14:K2:379:LYS:HD2	14:K2:382:LEU:HD21	2.02	0.41
14:K3:339:LYS:O	14:K3:343:THR:HG23	2.20	0.41
14:K3:409:LEU:HD23	14:K3:409:LEU:H	1.86	0.41
14:K3:467:GLN:HE21	14:K3:467:GLN:HB2	1.69	0.41
14:K4:124:GLU:OE1	14:K4:124:GLU:N	2.48	0.41
3:KD:16:ILE:HD13	3:KD:226:ASN:ND2	2.28	0.41
3:KD:284:LEU:HB3	3:KD:362:LYS:HZ1	1.85	0.41
2:KE:161:TYR:HB3	2:KE:164:LYS:HZ3	1.86	0.41
3:KH:12:CYS:SG	3:KH:13:GLY:N	2.93	0.41
2:KI:21:TRP:HZ2	2:KI:65:ALA:HB2	1.86	0.41
3:LD:324:LYS:HZ3	2:LE:221:ARG:HA	1.85	0.41
2:LE:107:HIS:CD2	2:LE:152:LEU:HB2	2.56	0.41
2:LE:216:ASN:HD21	2:LE:275:VAL:HG23	1.86	0.41
3:LF:211:CYS:HA	3:LF:215:LEU:HD12	2.02	0.41
3:LF:285:THR:HB	3:LF:287:PRO:HD2	2.03	0.41
2:LG:146:GLY:N	25:LG:501:GTP:O2B	2.54	0.41
3:LH:118:ASP:O	3:LH:121:ARG:HG2	2.21	0.41
2:LI:211:ASP:O	2:LI:215:ARG:HG3	2.20	0.41
2:LI:325:PRO:HA	2:LI:328:VAL:HB	2.02	0.41
2:ME:180:ALA:O	2:ME:183:GLU:HB2	2.20	0.41
3:MF:102:ALA:HB1	3:MF:401:GLU:OE1	2.21	0.41
2:MG:55:GLU:HG3	2:MG:61:HIS:N	2.36	0.41
3:ND:9:ALA:HB3	3:ND:137:HIS:HB3	2.02	0.41
3:ND:306:ARG:NH1	3:ND:310:TYR:OH	2.54	0.41
3:NF:52:ASN:ND2	3:NF:62:ARG:HD3	2.36	0.41
3:NF:310:TYR:HE2	3:NF:337:ASN:HD22	1.68	0.41
2:OE:12:ALA:HA	2:OE:15:GLN:OE1	2.20	0.41
2:OE:166:LYS:HB3	2:OE:168:GLU:OE2	2.20	0.41
3:OH:320:ARG:HG3	3:OH:320:ARG:HH11	1.86	0.41
3:OH:322:SER:N	3:OH:325:GLU:OE2	2.53	0.41
2:OI:145:THR:HG1	25:OI:501:GTP:PB	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:234:ILE:O	2:OI:237:SER:OG	2.31	0.41
19:P1:22:PHE:CD1	19:P1:314:ILE:HD11	2.56	0.41
19:P1:259:LEU:CD1	19:P1:275:PHE:HE1	2.32	0.41
19:P2:71:THR:HG23	19:P2:119:PHE:CE1	2.56	0.41
19:P2:199:CYS:HA	19:P2:237:LYS:NZ	2.36	0.41
19:P2:263:GLY:HA2	19:P2:277:LYS:HD2	2.03	0.41
19:P2:511:HIS:CB	19:P2:516:GLN:H	2.34	0.41
19:P2:518:ILE:O	19:P2:518:ILE:HG13	2.21	0.41
2:PE:71:GLU:OE1	2:PE:71:GLU:N	2.54	0.41
2:PE:338:LYS:NZ	2:PE:340:THR:HG23	2.36	0.41
2:PE:420:GLU:HA	2:PE:423:GLU:OE2	2.21	0.41
3:PF:100:ASN:OD1	3:PF:103:LYS:N	2.33	0.41
3:PF:141:GLY:O	3:PF:145:SER:N	2.33	0.41
3:PF:380:ARG:CZ	3:PF:380:ARG:HB3	2.50	0.41
2:PG:8:HIS:CD2	2:PG:17:GLY:HA3	2.55	0.41
2:PG:11:GLN:HG3	25:PG:501:GTP:PB	2.61	0.41
2:PG:226:ASN:HA	2:PG:229:ARG:HB2	2.01	0.41
2:PG:272:TYR:O	2:PG:275:VAL:HG13	2.21	0.41
2:PG:310:GLY:HA3	2:PG:383:ALA:HB2	2.03	0.41
3:PH:21:TRP:CZ2	3:PH:63:ALA:HB2	2.56	0.41
3:PH:162:ARG:HA	3:PH:162:ARG:HD3	1.76	0.41
2:PI:333:ALA:O	2:PI:337:THR:HG23	2.20	0.41
2:QE:47:ASP:HB3	2:QE:49:PHE:CD1	2.55	0.41
2:QE:216:ASN:ND2	2:QE:275:VAL:HG23	2.34	0.41
3:QF:277:GLY:O	3:QF:280:GLN:NE2	2.54	0.41
2:QI:3:GLU:HA	2:QI:51:THR:OG1	2.19	0.41
2:QI:6:SER:HG	2:QI:8:HIS:CE1	2.38	0.41
2:QI:14:VAL:HG11	2:QI:69:ASP:HB2	2.03	0.41
2:QI:209:ILE:HG23	2:QI:230:LEU:HD12	2.02	0.41
2:QI:270:ALA:HA	2:QI:377:MET:O	2.20	0.41
2:QI:385:ALA:HB1	2:QI:429:GLU:OE1	2.20	0.41
3:RF:123:GLU:O	3:RF:126:SER:OG	2.39	0.41
3:RF:190:HIS:CD2	3:RF:414:ASN:ND2	2.88	0.41
3:RF:380:ARG:O	3:RF:384:GLN:HG2	2.21	0.41
2:RG:2:ARG:NE	2:RG:242:LEU:HG	2.35	0.41
2:RG:321:GLY:HA3	2:RG:372:GLN:O	2.21	0.41
3:RH:86:ARG:HA	3:RH:86:ARG:CZ	2.50	0.41
3:RH:238:THR:HA	3:RH:241:ARG:HH11	1.86	0.41
2:RI:328:VAL:O	2:RI:332:ILE:HG23	2.21	0.41
3:RJ:309:ARG:O	3:RJ:371:SER:OG	2.32	0.41
3:RJ:313:VAL:HG23	3:RJ:349:VAL:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:375:GLN:O	3:RJ:379:LYS:HB2	2.21	0.41
3:SF:139:LEU:HD11	3:SF:171:PRO:HD2	2.03	0.41
3:SF:147:MET:O	3:SF:151:LEU:HD23	2.21	0.41
2:SG:12:ALA:HB1	25:SG:501:GTP:C2	2.56	0.41
2:SG:21:TRP:HA	2:SG:24:TYR:CD2	2.56	0.41
2:SG:46:ASP:OD1	2:SG:50:ASN:ND2	2.26	0.41
3:SH:54:ALA:HB3	3:SH:58:LYS:HB2	2.03	0.41
3:SH:172:SER:HB3	3:SH:175:VAL:O	2.21	0.41
3:SH:238:THR:HA	3:SH:241:ARG:HG2	2.02	0.41
2:SI:3:GLU:HA	2:SI:51:THR:OG1	2.20	0.41
2:SI:312:TYR:HB2	2:SI:343:PHE:HA	2.03	0.41
3:TF:225:LEU:O	3:TF:229:VAL:HG22	2.19	0.41
2:TG:56:THR:HB	2:UE:285:GLN:HG3	2.02	0.41
2:TG:266:HIS:O	2:TG:268:PRO:HD3	2.20	0.41
2:TI:125:LEU:O	2:TI:128:LEU:HG	2.21	0.41
2:TI:304:LYS:HD2	2:TI:304:LYS:N	2.36	0.41
3:TJ:31:ASP:OD2	3:TJ:35:THR:OG1	2.38	0.41
3:TJ:180:VAL:HG22	3:TJ:183:TYR:HB2	2.01	0.41
3:TJ:317:PHE:HB2	3:TJ:353:VAL:HG22	2.03	0.41
3:UD:350:LYS:HD3	2:UE:179:THR:O	2.21	0.41
3:UD:394:PHE:HD1	3:UD:397:TRP:HZ3	1.68	0.41
2:UE:216:ASN:ND2	2:UE:275:VAL:HG23	2.36	0.41
2:UE:252:LEU:HD12	2:UE:253:THR:N	2.36	0.41
2:UE:321:GLY:HA3	2:UE:372:GLN:O	2.20	0.41
3:UF:81:PHE:HA	3:UF:83:GLN:NE2	2.35	0.41
3:UF:180:VAL:O	3:UF:183:TYR:HB2	2.20	0.41
3:UF:309:ARG:NH1	3:UF:342:VAL:HA	2.36	0.41
2:UG:88:HIS:CE1	2:UG:90:GLU:HG2	2.56	0.41
2:UG:399:TYR:OH	2:UG:415:GLU:HB2	2.21	0.41
3:UH:21:TRP:CZ2	3:UH:63:ALA:HB2	2.56	0.41
3:UH:85:PHE:HD2	3:UH:90:PHE:CE1	2.39	0.41
3:VD:199:THR:CB	3:VD:264:HIS:O	2.68	0.41
2:VG:312:TYR:HE2	2:VG:342:GLN:H	1.68	0.41
3:VH:284:LEU:HD12	3:VH:289:LEU:HD11	2.02	0.41
3:VH:326:VAL:HA	3:VH:329:GLN:HG2	2.02	0.41
2:WE:3:GLU:HA	2:WE:51:THR:OG1	2.21	0.41
2:WE:20:CYS:O	2:WE:24:TYR:CD1	2.73	0.41
2:WE:119:LEU:O	2:WE:123:ARG:HG2	2.20	0.41
2:WE:184:PRO:O	2:WE:188:ILE:HG12	2.21	0.41
3:WF:294:PHE:HZ	3:WF:310:TYR:CE2	2.39	0.41
2:WG:234:ILE:CD1	2:WG:272:TYR:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:346:TRP:O	2:WG:348:PRO:HD3	2.20	0.41
3:WH:408:PHE:O	3:WH:412:GLU:HG3	2.20	0.41
2:WI:19:ALA:O	2:WI:23:LEU:HG	2.20	0.41
22:XD:25:TRP:CE3	22:XD:59:ILE:HG13	2.54	0.41
22:XD:48:GLU:OE1	22:XD:161:ARG:HB2	2.21	0.41
23:XJ:164:GLU:HA	23:XJ:219:TYR:OH	2.20	0.41
23:XL:59:CYS:HA	23:XL:62:ARG:NH2	2.36	0.41
23:XL:67:ILE:HG23	23:XL:79:ALA:O	2.21	0.41
23:XL:213:LEU:HA	23:XL:213:LEU:HD23	1.81	0.41
24:YJ:58:ASN:C	24:YJ:63:ARG:HH12	2.23	0.41
1:A2:66:ARG:O	1:A2:70:VAL:HG23	2.21	0.41
1:A2:116:LEU:HD23	1:A2:116:LEU:HA	1.90	0.41
1:A2:264:PHE:HE2	1:A2:394:ARG:HD2	1.86	0.41
1:A3:239:LYS:HE3	1:A3:239:LYS:HB3	1.84	0.41
1:A3:246:LEU:HD23	1:A3:246:LEU:HA	1.82	0.41
2:AE:234:ILE:O	2:AE:238:ILE:HG12	2.21	0.41
2:AE:259:LEU:HD21	2:AE:316:CYS:HB2	2.03	0.41
2:AE:320:ARG:HD3	2:AE:360:PRO:HG3	2.03	0.41
2:AE:347:CYS:HB2	2:AE:349:THR:O	2.20	0.41
3:AF:172:SER:HB3	3:AF:175:VAL:O	2.20	0.41
3:AF:342:VAL:HB	3:AF:344:TRP:HE3	1.85	0.41
2:AG:230:LEU:O	2:AG:233:GLN:NE2	2.54	0.41
2:AG:261:PRO:HA	3:AH:394:PHE:CE1	2.56	0.41
2:AG:429:GLU:HA	2:AG:432:TYR:HD2	1.85	0.41
2:AI:3:GLU:CD	2:AI:132:LEU:H	2.24	0.41
2:AI:114:ILE:O	2:AI:118:VAL:HG23	2.20	0.41
2:AI:168:GLU:OE2	2:AI:170:ALA:HB2	2.21	0.41
2:AI:220:GLU:OE1	2:AI:220:GLU:N	2.43	0.41
2:AI:279:GLU:OE2	2:AI:280:LYS:HG2	2.21	0.41
2:AI:352:LYS:HD2	2:AI:352:LYS:HA	1.97	0.41
4:B2:243:ILE:HG13	4:B2:244:ALA:N	2.35	0.41
4:B3:14:LEU:HD12	4:B3:17:TRP:HE3	1.86	0.41
4:B7:10:GLU:OE1	4:B7:12:TYR:HD1	2.04	0.41
4:B7:46:ARG:HG3	4:B7:47:ASN:N	2.36	0.41
4:B7:80:LYS:HD2	7:E2:178:PHE:CD2	2.55	0.41
4:B7:213:THR:O	4:B8:330:CYS:HA	2.21	0.41
4:B8:312:LYS:O	4:B8:316:THR:HG23	2.21	0.41
2:BE:42:ILE:HD13	2:BE:59:GLY:HA2	2.03	0.41
2:BE:333:ALA:O	2:BE:337:THR:HG23	2.21	0.41
3:BF:3:GLU:HB2	3:BF:62:ARG:NH2	2.36	0.41
3:BF:33:THR:O	3:BF:58:LYS:NZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:99:ASN:HB3	25:BF:501:GTP:O3B	2.21	0.41
3:BF:286:VAL:HG11	3:BF:325:GLU:HB2	2.02	0.41
3:BF:378:PHE:CE1	3:BF:419:VAL:HG22	2.54	0.41
3:BF:381:ILE:HD12	3:BF:381:ILE:HA	1.97	0.41
3:BH:141:GLY:HA3	25:BH:501:GTP:H5'	2.03	0.41
3:BH:148:GLY:O	3:BH:152:ILE:HG12	2.21	0.41
3:BH:170:VAL:N	3:BH:202:ILE:O	2.49	0.41
3:BH:252:LYS:HE3	2:BI:100:ALA:HA	2.02	0.41
3:BH:275:SER:OG	3:BH:276:ARG:N	2.53	0.41
3:BH:276:ARG:HB2	10:G5:126:PRO:HD3	2.03	0.41
3:BH:318:ARG:HD3	3:BH:358:PRO:HG3	2.03	0.41
2:BI:99:ALA:HB3	2:BI:145:THR:HA	2.02	0.41
2:BI:220:GLU:O	2:BI:221:ARG:NE	2.54	0.41
2:BI:304:LYS:HD2	2:BI:304:LYS:N	2.35	0.41
5:C2:149:ARG:HH12	5:C3:403:ARG:NH2	2.19	0.41
5:C3:202:ARG:NH2	5:C3:469:ASP:O	2.53	0.41
5:C4:383:LYS:HA	5:C4:386:ILE:HD12	2.02	0.41
5:C7:114:ARG:NH1	5:C8:367:LYS:HG3	2.35	0.41
5:C7:162:HIS:O	5:C7:166:GLU:OE1	2.39	0.41
5:C7:178:LYS:HE2	5:C7:178:LYS:HB3	1.91	0.41
5:C8:162:HIS:O	5:C8:166:GLU:OE1	2.39	0.41
5:C8:372:ILE:HD11	5:C8:448:LEU:HB3	2.02	0.41
3:CF:31:ASP:N	3:CF:31:ASP:OD1	2.54	0.41
2:CG:3:GLU:N	2:CG:3:GLU:OE1	2.54	0.41
2:CG:102:ASN:CG	2:CG:105:ARG:H	2.24	0.41
3:CH:189:VAL:HA	3:CH:192:LEU:HB2	2.02	0.41
3:CH:233:MET:HA	3:CH:236:VAL:HG22	2.02	0.41
3:CH:257:MET:O	3:CH:259:PRO:HD3	2.21	0.41
3:CH:293:MET:HE3	3:CH:367:PHE:HB2	2.03	0.41
2:CI:1:MET:CG	2:CI:2:ARG:H	2.28	0.41
2:CI:175:PRO:HB2	2:CI:390:ARG:NH1	2.34	0.41
2:CI:306:ASP:OD2	2:CI:309:HIS:N	2.54	0.41
3:CJ:193:VAL:HG23	3:CJ:265:PHE:HE2	1.86	0.41
6:D3:320:TYR:HA	6:D3:323:ARG:HH12	1.84	0.41
6:D7:373:ALA:HB1	6:D7:376:ARG:HH22	1.86	0.41
6:D7:378:LEU:HA	6:D7:381:VAL:HG22	2.03	0.41
6:D7:393:GLU:OE1	6:D7:396:GLN:NE2	2.53	0.41
6:D8:110:MET:O	6:D8:114:LYS:HG3	2.21	0.41
6:D8:272:ARG:HH12	6:D8:273:LEU:HD23	1.86	0.41
6:D9:53:ARG:HA	6:D9:56:TRP:HB3	2.03	0.41
3:DD:15:GLN:HG3	3:DD:226:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:32:PRO:O	3:DD:84:ILE:HD11	2.21	0.41
3:DD:68:LEU:HB3	3:DD:95:SER:O	2.20	0.41
3:DD:276:ARG:HB2	9:G1:285:ARG:HE	1.86	0.41
3:DD:292:GLN:HA	3:DD:295:ASP:OD2	2.21	0.41
2:DE:172:TYR:CD1	2:DE:203:MET:HG2	2.56	0.41
2:DG:2:ARG:NE	2:DG:242:LEU:HG	2.36	0.41
3:DH:50:TYR:OH	3:DH:237:THR:HB	2.21	0.41
3:DH:304:ASP:C	3:DH:306:ARG:H	2.24	0.41
3:DH:318:ARG:HA	3:DH:354:CYS:O	2.21	0.41
7:E2:77:TYR:CD1	7:E2:78:LYS:HG2	2.56	0.41
3:ED:378:PHE:O	3:ED:381:ILE:HG22	2.21	0.41
2:EE:20:CYS:O	2:EE:23:LEU:HB2	2.21	0.41
2:EE:118:VAL:O	2:EE:122:ILE:HG23	2.21	0.41
2:EE:135:PHE:HB2	2:EE:137:ILE:HD11	2.03	0.41
2:EE:326:LYS:H	2:EE:326:LYS:HG2	1.62	0.41
2:EE:338:LYS:NZ	2:EE:340:THR:HG23	2.36	0.41
2:EE:346:TRP:CH2	3:EF:391:ARG:HD2	2.55	0.41
2:EE:352:LYS:NZ	3:EF:178:THR:OG1	2.54	0.41
2:EE:408:TYR:HA	2:EE:411:GLU:HG3	2.03	0.41
3:EF:60:VAL:HA	3:EF:61:PRO:HD3	1.94	0.41
3:EF:137:HIS:NE2	3:EF:168:SER:HB2	2.36	0.41
3:EH:40:SER:HB2	3:EH:43:GLN:CG	2.51	0.41
3:EH:371:SER:OG	3:EH:372:THR:N	2.54	0.41
8:F2:188:LEU:HD13	8:F2:222:LEU:HD11	2.03	0.41
8:F6:112:TRP:O	8:F6:116:LEU:HG	2.20	0.41
8:F6:159:GLU:O	8:F6:163:LEU:HG	2.21	0.41
8:F6:256:ASP:HB3	8:F7:406:GLU:OE2	2.21	0.41
8:F6:343:PHE:HB3	8:F6:473:ARG:NH2	2.35	0.41
3:FD:67:ASP:CG	3:FD:68:LEU:H	2.24	0.41
3:FD:189:VAL:HA	3:FD:192:LEU:HD12	2.02	0.41
3:FD:234:SER:O	3:FD:238:THR:HG23	2.21	0.41
3:FD:278:SER:HA	3:FD:281:TYR:HB3	2.03	0.41
2:FE:49:PHE:HB2	2:FE:53:PHE:HD2	1.85	0.41
2:FE:255:PHE:CZ	2:FE:318:LEU:HD11	2.45	0.41
2:FE:327:ASP:OD1	2:FE:328:VAL:N	2.53	0.41
3:FF:12:CYS:HB3	25:FF:501:GTP:C4'	2.50	0.41
3:FF:60:VAL:HG23	3:FF:86:ARG:CG	2.50	0.41
3:FF:316:VAL:HA	3:FF:352:ALA:O	2.21	0.41
2:FG:8:HIS:HB3	2:FG:13:GLY:O	2.21	0.41
2:FG:121:ARG:HA	2:FG:124:LYS:HG2	2.02	0.41
2:FG:406:HIS:CG	2:FG:407:TRP:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:187:LEU:HD21	3:FH:408:PHE:CE1	2.56	0.41
9:G1:125:TYR:HB3	9:G1:127:GLU:OE1	2.21	0.41
9:G1:267:TYR:CE1	9:G1:294:ARG:HG3	2.56	0.41
9:G2:114:HIS:HB2	9:G2:115:TYR:CD2	2.55	0.41
9:G2:438:PHE:CE1	9:G2:453:GLU:HB2	2.56	0.41
10:G5:367:LYS:HA	10:G5:367:LYS:HD3	1.87	0.41
10:G5:575:LYS:NZ	10:G5:736:LEU:HD22	2.36	0.41
10:G5:586:LEU:O	10:G5:589:ILE:HG22	2.21	0.41
10:G5:690:TYR:HA	10:G5:693:PHE:HB3	2.02	0.41
3:GD:210:ILE:HD13	3:GD:210:ILE:HA	1.88	0.41
3:GD:211:CYS:HA	3:GD:215:LEU:HB2	2.03	0.41
2:GE:2:ARG:HG2	2:GE:242:LEU:HD23	2.01	0.41
2:GE:5:ILE:CD1	2:GE:64:ARG:HB3	2.51	0.41
2:GE:242:LEU:HD12	2:GE:242:LEU:H	1.86	0.41
2:GE:426:ALA:O	2:GE:429:GLU:HG2	2.21	0.41
3:GF:6:HIS:HB3	3:GF:63:ALA:HB2	2.02	0.41
3:GF:117:LEU:HA	3:GF:120:VAL:HG12	2.03	0.41
3:GF:199:THR:OG1	3:GF:265:PHE:HA	2.21	0.41
3:GF:324:LYS:HE2	2:GG:222:PRO:CG	2.50	0.41
2:GG:9:VAL:HG13	2:GG:9:VAL:O	2.21	0.41
2:GG:21:TRP:CE3	2:GG:24:TYR:HD2	2.39	0.41
2:GG:99:ALA:HA	2:GG:105:ARG:NE	2.34	0.41
3:GH:2:ARG:HA	3:GH:129:CYS:O	2.21	0.41
3:GH:36:TYR:CZ	3:GH:38:GLY:HA2	2.56	0.41
3:GH:376:GLU:OE1	3:GH:376:GLU:N	2.43	0.41
2:GI:324:VAL:HA	2:GI:325:PRO:HD3	1.96	0.41
11:H3:34:THR:OG1	11:H3:37:ARG:HG2	2.21	0.41
11:H3:251:GLN:HA	11:H3:254:PHE:CE2	2.56	0.41
11:H4:314:ARG:NH1	11:H4:315:ARG:HB3	2.36	0.41
3:HD:189:VAL:HA	3:HD:192:LEU:HB3	2.02	0.41
3:HD:246:LEU:HD13	3:HD:354:CYS:HB2	2.03	0.41
3:HD:288:GLU:OE2	3:HD:289:LEU:HD12	2.21	0.41
2:HE:75:VAL:O	2:HE:78:VAL:HG22	2.21	0.41
3:HF:15:GLN:NE2	25:HF:501:GTP:N3	2.67	0.41
3:HF:16:ILE:HG21	3:HF:167:PHE:CE2	2.56	0.41
3:HF:259:PRO:HA	2:HG:404:PHE:CE1	2.56	0.41
3:HF:374:ILE:HD12	3:HF:374:ILE:H	1.86	0.41
2:HG:116:ASP:OD1	2:HG:117:LEU:N	2.52	0.41
2:HG:155:GLU:O	2:HG:159:VAL:HG13	2.20	0.41
2:HG:338:LYS:HD2	2:HG:338:LYS:HA	1.82	0.41
3:HH:2:ARG:HG2	3:HH:131:GLN:CD	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:284:LEU:HD12	3:HH:284:LEU:HA	1.87	0.41
2:HI:168:GLU:OE1	2:HI:198:SER:OG	2.39	0.41
2:HI:320:ARG:CZ	2:HI:360:PRO:HA	2.51	0.41
2:HI:321:GLY:O	2:HI:357:TYR:HA	2.20	0.41
2:IE:175:PRO:HD2	2:IE:207:GLU:OE1	2.21	0.41
2:IE:260:VAL:O	3:IF:397:TRP:HH2	2.03	0.41
2:IE:338:LYS:HZ2	2:IE:339:ARG:H	1.68	0.41
3:IF:137:HIS:ND1	3:IF:138:SER:O	2.53	0.41
3:IF:148:GLY:HA2	3:IF:151:LEU:HG	2.03	0.41
2:IG:406:HIS:HA	2:IG:409:VAL:HG22	2.01	0.41
3:IH:102:ALA:HB1	3:IH:401:GLU:OE1	2.21	0.41
3:IH:115:SER:O	3:IH:119:VAL:HG23	2.20	0.41
3:IH:137:HIS:CE1	3:IH:168:SER:HB2	2.56	0.41
3:IH:309:ARG:HB2	3:IH:426:GLN:HE21	1.86	0.41
3:IH:378:PHE:HA	3:IH:381:ILE:HG22	2.02	0.41
3:IH:405:GLU:O	3:IH:409:THR:HG23	2.20	0.41
2:II:192:HIS:CE1	2:II:193:THR:HG23	2.56	0.41
2:II:256:GLN:O	2:II:260:VAL:HG12	2.21	0.41
2:II:401:LYS:H	2:II:401:LYS:HG2	1.75	0.41
13:J2:32:ASN:HB2	13:J2:106:ALA:O	2.21	0.41
2:JE:145:THR:HG23	25:JE:501:GTP:O3B	2.21	0.41
2:JE:189:LEU:HA	2:JE:192:HIS:ND1	2.35	0.41
2:JE:207:GLU:HB2	2:JE:304:LYS:HZ3	1.85	0.41
3:JF:313:VAL:HG23	3:JF:349:VAL:HA	2.03	0.41
3:JF:323:MET:SD	3:JF:323:MET:N	2.92	0.41
2:JG:270:ALA:O	2:JG:302:MET:HE2	2.21	0.41
2:JG:332:ILE:O	2:JG:336:LYS:HG3	2.21	0.41
2:JG:408:TYR:HD2	2:JG:418:PHE:CZ	2.39	0.41
3:JH:101:TRP:CE2	3:JH:187:LEU:HB3	2.56	0.41
3:JH:198:GLU:HG2	3:JH:266:PHE:CE2	2.56	0.41
3:JH:238:THR:HA	3:JH:241:ARG:NH1	2.36	0.41
14:K2:492:SER:O	14:K2:492:SER:OG	2.38	0.41
14:K3:109:LEU:CD2	14:K3:110:PRO:HD3	2.49	0.41
14:K3:204:LYS:HD3	14:K3:204:LYS:HA	1.97	0.41
14:K3:295:LYS:O	14:K3:299:GLU:OE1	2.39	0.41
3:KD:25:SER:HA	3:KD:30:ILE:HD13	2.03	0.41
3:KD:69:GLU:HA	3:KD:70:PRO:HD3	1.88	0.41
3:KD:117:LEU:HB3	3:KD:121:ARG:NH2	2.36	0.41
3:KD:119:VAL:HA	3:KD:122:LYS:NZ	2.35	0.41
3:KD:191:GLN:CD	3:KD:191:GLN:H	2.24	0.41
3:KD:197:ASP:OD1	3:KD:198:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:271:ALA:HB2	3:KD:365:ALA:HB3	2.03	0.41
3:KD:344:TRP:HB3	2:KE:401:LYS:HE2	2.03	0.41
3:KD:350:LYS:HZ3	2:KE:181:VAL:HG13	1.84	0.41
2:KE:75:VAL:HA	2:KE:78:VAL:HG22	2.02	0.41
2:KE:232:GLY:HA2	2:KE:235:VAL:HG12	2.03	0.41
3:KF:8:GLN:CD	3:KF:17:GLY:HA3	2.41	0.41
3:KF:163:ILE:HD13	3:KF:250:LEU:HB2	2.02	0.41
2:KG:102:ASN:ND2	2:KG:105:ARG:HB2	2.36	0.41
2:KG:185:TYR:OH	2:KG:398:MET:HB3	2.21	0.41
3:KH:325:GLU:HB3	2:KI:221:ARG:NH1	2.36	0.41
3:KH:344:TRP:CD1	2:KI:401:LYS:HD3	2.56	0.41
3:KH:375:GLN:O	3:KH:379:LYS:HG2	2.19	0.41
2:KI:279:GLU:OE2	2:KI:280:LYS:HG2	2.21	0.41
15:L3:43:LYS:HD3	3:MH:338:SER:OG	2.20	0.41
15:L3:109:ASN:O	15:L3:113:VAL:HG22	2.21	0.41
15:L3:124:ILE:HG23	15:L3:134:HIS:O	2.21	0.41
15:L3:171:GLU:HA	15:L3:174:ASN:ND2	2.35	0.41
15:L3:197:LEU:HD23	15:L3:200:LEU:HD21	2.02	0.41
3:LD:11:GLN:HG2	25:LD:501:GTP:O5'	2.21	0.41
3:LD:36:TYR:OH	3:LD:44:LEU:HB2	2.20	0.41
3:LD:68:LEU:HD22	3:LD:93:GLY:HA3	2.02	0.41
3:LD:285:THR:O	3:LD:288:GLU:HG3	2.21	0.41
3:LD:399:THR:HG21	18:O1:82:THR:HG23	2.02	0.41
2:LE:406:HIS:HA	2:LE:409:VAL:HG22	2.02	0.41
2:LE:429:GLU:O	2:LE:432:TYR:N	2.54	0.41
2:LG:154:MET:O	2:LG:157:LEU:HG	2.21	0.41
2:LG:163:LYS:HD3	18:O2:78:LYS:NZ	2.35	0.41
2:LG:187:SER:O	2:LG:190:THR:OG1	2.32	0.41
2:LG:272:TYR:HD2	2:LG:275:VAL:HG13	1.86	0.41
2:LG:311:LYS:HE3	2:LG:344:VAL:HG12	2.03	0.41
3:LH:40:SER:O	3:LH:43:GLN:HG2	2.21	0.41
3:LH:217:LEU:O	3:LH:219:THR:N	2.48	0.41
3:LH:267:MET:O	3:LH:368:ILE:HD12	2.21	0.41
3:LH:325:GLU:OE1	3:LH:325:GLU:N	2.34	0.41
3:LH:325:GLU:O	3:LH:329:GLN:HG2	2.21	0.41
2:LI:6:SER:O	2:LI:65:ALA:HA	2.21	0.41
2:LI:166:LYS:N	2:LI:199:ASP:OD2	2.54	0.41
2:ME:102:ASN:ND2	2:ME:105:ARG:HB2	2.35	0.41
2:ME:161:TYR:HB3	2:ME:164:LYS:NZ	2.35	0.41
2:ME:306:ASP:HB3	2:ME:309:HIS:CE1	2.55	0.41
2:ME:326:LYS:HA	2:ME:329:ASN:HD21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:256:GLN:O	2:MG:260:VAL:HG12	2.20	0.41
3:MH:105:HIS:HD2	3:MH:106:TYR:CE1	2.39	0.41
3:MH:374:ILE:HG22	3:MH:378:PHE:HE2	1.85	0.41
2:MI:252:LEU:HD12	2:MI:253:THR:N	2.36	0.41
3:ND:70:PRO:O	3:ND:73:MET:HG2	2.21	0.41
3:ND:207:LEU:HD22	3:ND:228:LEU:HD11	2.03	0.41
2:NE:99:ALA:H	2:NE:145:THR:HG22	1.86	0.41
2:NE:397:LEU:O	2:NE:401:LYS:HE3	2.20	0.41
3:NF:3:GLU:OE2	3:NF:127:CYS:HB2	2.20	0.41
3:NF:239:CYS:SG	3:NF:240:LEU:N	2.94	0.41
3:NF:247:ASN:HB2	3:NF:252:LYS:HG2	2.01	0.41
3:NF:285:THR:O	3:NF:288:GLU:HG3	2.21	0.41
3:NF:409:THR:O	3:NF:412:GLU:HG3	2.21	0.41
2:NG:6:SER:HB3	2:NG:65:ALA:HB2	2.03	0.41
2:NG:19:ALA:HA	2:NG:22:GLU:CD	2.42	0.41
2:NG:425:LEU:HA	2:NG:428:LEU:HD12	2.03	0.41
3:NH:50:TYR:O	3:NH:62:ARG:NE	2.52	0.41
3:NH:224:ASP:O	3:NH:228:LEU:HG	2.21	0.41
2:NI:5:ILE:HD13	2:NI:5:ILE:HA	1.92	0.41
2:NI:42:ILE:HG23	2:NI:59:GLY:HA2	2.03	0.41
2:NI:71:GLU:N	2:NI:71:GLU:OE1	2.54	0.41
2:NI:89:PRO:HB2	2:NI:90:GLU:OE1	2.21	0.41
2:NI:214:ARG:HH12	2:NI:215:ARG:HG3	1.85	0.41
2:NI:285:GLN:HE22	2:NI:287:SER:HB3	1.84	0.41
2:NI:406:HIS:CE1	2:NI:407:TRP:CE2	3.08	0.41
18:O1:116:LYS:HE3	18:O1:117:PRO:HD2	2.03	0.41
18:O2:74:ILE:HG13	18:O2:75:PRO:HD2	2.02	0.41
3:OD:201:CYS:SG	3:OD:265:PHE:HB3	2.61	0.41
3:OD:357:PRO:HB3	3:OD:362:LYS:HA	2.02	0.41
2:OE:394:LYS:HG2	2:OE:398:MET:HE1	2.03	0.41
3:OF:12:CYS:SG	25:OF:501:GTP:H5'	2.61	0.41
3:OF:252:LYS:HZ3	2:OG:144:GLY:HA3	1.82	0.41
3:OF:379:LYS:O	3:OF:383:GLU:OE1	2.39	0.41
2:OG:3:GLU:OE2	2:OG:131:GLY:N	2.43	0.41
2:OG:85:GLN:OE1	2:OG:85:GLN:N	2.39	0.41
2:OG:90:GLU:HG2	2:OG:121:ARG:CZ	2.50	0.41
2:OG:118:VAL:O	2:OG:122:ILE:HG23	2.20	0.41
3:OH:28:HIS:ND1	3:OH:43:GLN:HB2	2.36	0.41
3:OH:103:LYS:O	3:OH:108:GLU:N	2.36	0.41
3:OH:311:LEU:HB2	3:OH:370:ASN:O	2.20	0.41
3:OH:379:LYS:NZ	3:OH:419:VAL:HG11	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:11:GLN:HG3	25:OI:501:GTP:O3A	2.20	0.41
2:OI:15:GLN:O	2:OI:18:ASN:HB3	2.20	0.41
2:OI:104:ALA:HB1	2:OI:413:MET:HG3	2.03	0.41
2:OI:185:TYR:HD2	2:OI:418:PHE:CE2	2.28	0.41
2:OI:200:CYS:SG	2:OI:256:GLN:HB3	2.60	0.41
2:OI:280:LYS:HA	2:OI:283:HIS:CE1	2.56	0.41
2:OI:287:SER:O	2:OI:291:ILE:HG23	2.20	0.41
19:P1:126:LEU:O	19:P1:139:VAL:HA	2.21	0.41
19:P1:492:ARG:HE	19:P1:494:ARG:NH2	2.18	0.41
19:P1:509:CYS:O	19:P1:517:ILE:HG23	2.21	0.41
19:P1:543:SER:OG	19:P1:566:ASP:HB3	2.21	0.41
19:P1:599:ASN:HB3	19:P1:616:TYR:CD2	2.55	0.41
19:P2:242:THR:O	19:P2:281:TYR:CE2	2.74	0.41
19:P2:266:VAL:HB	19:P2:274:ILE:CG1	2.51	0.41
2:PE:183:GLU:HA	2:PE:186:ASN:ND2	2.35	0.41
2:PE:352:LYS:HD3	3:PF:178:THR:HA	2.02	0.41
2:PE:389:ALA:HA	2:PE:392:ASP:OD2	2.21	0.41
2:PG:8:HIS:CE1	2:PG:67:PHE:HE1	2.39	0.41
2:PG:206:ASN:HA	2:PG:209:ILE:HD12	2.03	0.41
2:PG:279:GLU:HA	24:YK:128:ASP:CB	2.51	0.41
2:PG:288:VAL:HA	2:PG:291:ILE:HG12	2.02	0.41
2:PG:429:GLU:O	2:PG:432:TYR:HB2	2.21	0.41
3:PH:113:VAL:HA	3:PH:116:VAL:HG22	2.02	0.41
3:PH:255:VAL:HA	2:PI:407:TRP:CH2	2.56	0.41
3:PH:321:MET:SD	3:PH:363:MET:HB2	2.61	0.41
3:PH:344:TRP:CE3	2:PI:401:LYS:HE3	2.55	0.41
2:PI:88:HIS:HE1	2:PI:90:GLU:HG2	1.86	0.41
2:PI:105:ARG:HD3	2:PI:109:THR:OG1	2.21	0.41
2:PI:156:ARG:NH1	2:PI:160:ASP:HB3	2.36	0.41
2:PI:216:ASN:HD21	2:PI:275:VAL:HG23	1.86	0.41
20:Q1:1398:ASP:HA	20:Q1:1401:GLN:HE21	1.85	0.41
20:Q1:1437:TYR:HE1	20:Q1:1492:HIS:O	2.04	0.41
20:Q1:1452:ARG:NH1	20:Q1:1452:ARG:O	2.52	0.41
20:Q2:1500:SER:C	20:Q2:1501:LEU:HD12	2.40	0.41
2:QE:5:ILE:HD13	2:QE:64:ARG:HB3	2.02	0.41
2:QE:55:GLU:HA	2:QE:60:LYS:O	2.21	0.41
2:QE:60:LYS:O	2:QE:62:VAL:HG23	2.20	0.41
2:QE:144:GLY:HA3	25:QE:501:GTP:O3G	2.20	0.41
2:QE:260:VAL:HG23	2:QE:265:ILE:O	2.21	0.41
3:QF:50:TYR:C	3:QF:62:ARG:HE	2.24	0.41
3:QF:286:VAL:HB	3:QF:287:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:21:TRP:HD1	2:QG:67:PHE:HZ	1.69	0.41
2:QG:71:GLU:N	2:QG:71:GLU:OE1	2.54	0.41
2:QG:91:GLN:NE2	2:QG:92:LEU:HG	2.35	0.41
2:QG:102:ASN:ND2	2:QG:105:ARG:HB2	2.36	0.41
2:QG:396:ASP:OD1	2:QG:397:LEU:N	2.51	0.41
3:QH:330:MET:HG2	3:QH:349:VAL:HG21	2.03	0.41
3:QH:409:THR:O	3:QH:412:GLU:HG3	2.20	0.41
2:QI:129:CYS:HB3	2:QI:132:LEU:HB3	2.03	0.41
2:QI:392:ASP:OD1	2:QI:393:HIS:N	2.53	0.41
2:RE:291:ILE:HD11	2:RE:319:TYR:HE2	1.85	0.41
2:RE:319:TYR:HB2	2:RE:355:ILE:CD1	2.51	0.41
2:RE:422:ARG:HA	2:RE:422:ARG:HD2	1.92	0.41
3:RF:251:ARG:O	3:RF:255:VAL:HG22	2.21	0.41
2:RG:260:VAL:O	3:RH:397:TRP:HH2	2.04	0.41
3:RH:148:GLY:HA2	3:RH:151:LEU:HG	2.02	0.41
2:RI:145:THR:O	2:RI:149:PHE:HD2	2.03	0.41
2:RI:347:CYS:HB2	2:RI:349:THR:O	2.21	0.41
3:RJ:68:LEU:HB3	3:RJ:95:SER:O	2.21	0.41
3:RJ:214:THR:HB	3:RJ:273:LEU:HD13	2.02	0.41
3:RJ:240:LEU:HD22	3:RJ:248:ALA:HB1	2.03	0.41
3:RJ:357:PRO:HB3	3:RJ:362:LYS:HA	2.03	0.41
3:RJ:378:PHE:HA	3:RJ:381:ILE:HB	2.02	0.41
2:SE:166:LYS:N	2:SE:199:ASP:OD2	2.54	0.41
2:SE:192:HIS:HA	2:SE:195:LEU:HD23	2.02	0.41
2:SE:331:ALA:O	2:SE:335:ILE:HG23	2.20	0.41
2:SE:388:TRP:CZ3	2:SE:432:TYR:HE2	2.38	0.41
2:SE:420:GLU:HA	2:SE:423:GLU:OE2	2.20	0.41
3:SF:51:TYR:HA	3:SF:60:VAL:O	2.21	0.41
3:SF:94:GLN:NE2	3:SF:95:SER:HB3	2.36	0.41
3:SF:229:VAL:O	3:SF:232:THR:OG1	2.22	0.41
3:SF:245:GLN:OE1	2:SG:224:TYR:CZ	2.74	0.41
3:SF:261:PRO:HB2	3:SF:262:ARG:NH1	2.35	0.41
3:SF:267:MET:O	3:SF:368:ILE:HD12	2.20	0.41
2:SG:8:HIS:HB2	2:SG:67:PHE:CD1	2.56	0.41
2:SG:53:PHE:CB	2:SG:61:HIS:HB3	2.51	0.41
2:SG:101:ASN:HA	2:SG:144:GLY:O	2.20	0.41
2:SG:121:ARG:O	2:SG:124:LYS:HG3	2.21	0.41
2:SG:175:PRO:HD2	2:SG:207:GLU:CD	2.41	0.41
2:SG:322:ASP:OD1	2:SG:373:ARG:NH1	2.54	0.41
2:SG:335:ILE:HD13	2:SG:335:ILE:HA	1.95	0.41
2:SI:39:ASP:OD1	2:SI:39:ASP:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:381:THR:OG1	2:SI:382:THR:N	2.53	0.41
3:SJ:102:ALA:O	3:SJ:106:TYR:HD1	2.04	0.41
3:SJ:325:GLU:HA	3:SJ:328:GLU:HG3	2.03	0.41
3:TF:122:LYS:O	3:TF:125:GLU:HG3	2.21	0.41
2:TG:121:ARG:HG2	2:TG:121:ARG:H	1.71	0.41
2:TG:142:GLY:HA2	2:TG:186:ASN:OD1	2.20	0.41
2:TG:153:LEU:O	2:TG:157:LEU:HD23	2.21	0.41
2:TG:298:PRO:HB3	2:TG:307:PRO:HG3	2.01	0.41
3:TH:30:ILE:HG22	3:TH:31:ASP:O	2.20	0.41
3:TH:162:ARG:HA	3:TH:162:ARG:HD3	1.94	0.41
3:TH:345:ILE:HD11	2:TI:181:VAL:HG21	2.03	0.41
3:TH:357:PRO:O	3:TH:359:ARG:NH2	2.54	0.41
3:TH:374:ILE:HD11	3:TH:422:TYR:CZ	2.56	0.41
2:TI:268:PRO:HB2	2:TI:378:LEU:HD11	2.03	0.41
3:UD:11:GLN:HE21	25:UD:501:GTP:H3'	1.86	0.41
3:UD:77:ARG:HA	3:UD:82:GLY:HA3	2.01	0.41
3:UD:245:GLN:HE22	2:UE:15:GLN:CD	2.24	0.41
3:UD:379:LYS:O	3:UD:383:GLU:OE1	2.39	0.41
3:UD:403:MET:HG2	3:UD:404:ASP:N	2.36	0.41
2:UE:119:LEU:O	2:UE:123:ARG:HG2	2.21	0.41
2:UE:214:ARG:HH12	2:UE:215:ARG:HG3	1.85	0.41
2:UE:267:PHE:N	2:UE:268:PRO:HD3	2.36	0.41
2:UE:425:LEU:O	2:UE:429:GLU:OE1	2.39	0.41
3:UF:324:LYS:HB3	3:UF:324:LYS:HE3	1.84	0.41
3:UF:386:THR:HA	3:UF:389:PHE:HB3	2.02	0.41
2:UG:3:GLU:H	2:UG:133:GLN:NE2	2.19	0.41
2:UG:25:CYS:O	2:UG:30:ILE:N	2.47	0.41
2:UG:101:ASN:OD1	2:UG:144:GLY:HA2	2.21	0.41
2:UG:102:ASN:HD21	2:UG:411:GLU:HG2	1.85	0.41
3:UH:313:VAL:HG23	3:UH:349:VAL:HA	2.03	0.41
3:VD:2:ARG:NH2	2:VE:97:GLU:HA	2.32	0.41
3:VD:28:HIS:CE1	3:VD:43:GLN:HB2	2.56	0.41
3:VD:41:ASP:O	3:VD:44:LEU:HB3	2.21	0.41
3:VD:309:ARG:N	3:VD:372:THR:OG1	2.34	0.41
3:VD:330:MET:HA	3:VD:333:VAL:HG22	2.02	0.41
3:VD:390:ARG:HG3	3:VD:391:ARG:HG3	2.01	0.41
2:VE:23:LEU:O	2:VE:26:LEU:HB3	2.21	0.41
2:VE:101:ASN:HA	2:VE:144:GLY:HA2	2.01	0.41
2:VE:223:THR:O	2:VE:227:LEU:HD13	2.20	0.41
2:VE:224:TYR:CE2	25:VE:501:GTP:O6	2.73	0.41
2:VE:258:ASN:OD1	3:VF:178:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:137:HIS:O	3:VF:168:SER:HA	2.20	0.41
2:VG:39:ASP:N	2:VG:39:ASP:OD1	2.54	0.41
2:VG:102:ASN:CG	2:VG:105:ARG:H	2.24	0.41
2:VG:207:GLU:HB2	2:VG:304:LYS:NZ	2.36	0.41
2:VG:270:ALA:O	2:VG:271:THR:OG1	2.35	0.41
2:VG:273:ALA:HB2	2:VG:377:MET:HE3	2.03	0.41
2:VG:396:ASP:OD1	2:VG:396:ASP:N	2.54	0.41
3:VH:8:GLN:CD	3:VH:17:GLY:HA3	2.41	0.41
3:VH:87:PRO:HA	3:VH:90:PHE:HB2	2.03	0.41
3:VH:206:ALA:O	3:VH:210:ILE:HG12	2.21	0.41
3:VH:285:THR:O	3:VH:288:GLU:HG3	2.21	0.41
3:VH:334:GLN:HA	3:VH:341:PHE:CE2	2.53	0.41
2:WE:155:GLU:O	2:WE:159:VAL:HG13	2.20	0.41
2:WE:346:TRP:HA	3:WF:390:ARG:NH2	2.36	0.41
2:WE:352:LYS:HA	2:WE:352:LYS:HD2	1.89	0.41
3:WF:40:SER:HB2	3:WF:43:GLN:CD	2.42	0.41
3:WF:94:GLN:OE1	23:XJ:75:GLY:N	2.54	0.41
3:WF:355:ASP:OD1	3:WF:355:ASP:N	2.54	0.41
2:WG:125:LEU:O	2:WG:128:LEU:HG	2.21	0.41
3:WH:240:LEU:HD22	3:WH:248:ALA:HB1	2.02	0.41
3:WH:249:ASP:O	3:WH:253:LEU:HG	2.21	0.41
3:WH:325:GLU:HB3	2:WI:221:ARG:NH1	2.36	0.41
2:WI:6:SER:HB3	2:WI:8:HIS:HE1	1.86	0.41
2:WI:120:ASP:HB3	22:XE:6:PHE:CE2	2.56	0.41
22:XC:74:PRO:HD2	22:XC:169:ASP:HA	2.03	0.41
22:XC:148:TYR:O	22:XC:149:ILE:HD13	2.21	0.41
22:XD:39:ASP:CG	22:XD:40:ASN:H	2.24	0.41
22:XD:86:TYR:O	22:XD:159:ASN:ND2	2.30	0.41
22:XD:88:THR:OG1	22:XD:104:ARG:NE	2.54	0.41
22:XE:6:PHE:CD1	22:XE:6:PHE:N	2.87	0.41
22:XE:53:ASN:HB3	22:XE:56:THR:HG23	2.03	0.41
23:XJ:85:GLU:OE1	23:XJ:85:GLU:N	2.43	0.41
23:XJ:105:PHE:HA	23:XJ:108:GLU:OE1	2.20	0.41
23:XJ:131:PRO:HA	23:XJ:134:ILE:HG12	2.02	0.41
23:XJ:207:ASP:O	23:XJ:210:GLN:NE2	2.53	0.41
23:XK:178:LEU:HD13	23:XK:231:MET:HG3	2.03	0.41
23:XL:92:TYR:HB3	23:XL:96:PHE:CZ	2.55	0.41
23:XL:209:ILE:O	23:XL:212:THR:OG1	2.30	0.41
24:YI:88:SER:N	24:YI:166:GLY:HA3	2.35	0.41
24:YK:30:GLU:HG3	24:YK:34:GLU:OE2	2.20	0.41
24:YK:93:THR:HB	24:YK:151:TRP:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YL:149:LYS:O	24:YL:152:ILE:HG22	2.21	0.41
24:YM:162:VAL:HG22	24:YM:165:HIS:CE1	2.56	0.41
24:YN:95:SER:O	24:YN:99:LYS:HB2	2.19	0.41
24:YN:152:ILE:O	24:YN:156:GLU:OE1	2.37	0.41
1:A2:366:TYR:CD1	10:G5:184:LYS:HE2	2.56	0.41
1:A3:162:ARG:HH12	9:G2:199:ILE:HB	1.86	0.41
2:AE:329:ASN:HA	2:AE:332:ILE:HG22	2.02	0.41
3:AF:302:ALA:HB1	3:AF:377:LEU:HD11	2.03	0.41
2:AG:124:LYS:HA	2:AG:127:ASP:OD2	2.21	0.41
3:AH:3:GLU:OE2	3:AH:129:CYS:N	2.54	0.41
3:AH:8:GLN:HE21	3:AH:14:ASN:HA	1.86	0.41
3:AH:293:MET:HA	3:AH:298:ASN:HD22	1.85	0.41
2:AI:55:GLU:HB2	2:AI:61:HIS:HA	2.02	0.41
4:B7:355:LYS:HA	4:B7:358:GLN:OE1	2.21	0.41
2:BE:8:HIS:CD2	2:BE:67:PHE:CE1	3.09	0.41
2:BE:404:PHE:HD1	2:BE:407:TRP:CD1	2.39	0.41
2:BG:161:TYR:HB3	2:BG:164:LYS:NZ	2.36	0.41
3:BH:81:PHE:HD2	3:BH:84:ILE:HG21	1.86	0.41
3:BH:163:ILE:HD11	3:BH:251:ARG:HD3	2.02	0.41
3:BH:320:ARG:HA	3:BH:320:ARG:NH1	2.36	0.41
3:BH:346:PRO:HG3	2:BI:394:LYS:CE	2.51	0.41
2:BI:8:HIS:HB2	2:BI:67:PHE:CD1	2.55	0.41
2:BI:315:CYS:HB3	2:BI:317:MET:SD	2.61	0.41
2:BI:338:LYS:HZ2	2:BI:340:THR:H	1.69	0.41
5:C3:233:MET:HG2	5:C3:328:LEU:HD21	2.03	0.41
5:C3:367:LYS:O	5:C3:371:GLU:OE1	2.38	0.41
5:C4:419:ARG:O	5:C4:419:ARG:HG2	2.18	0.41
5:C7:171:THR:HG21	5:C7:251:GLN:NE2	2.35	0.41
3:CF:403:MET:HG2	3:CF:404:ASP:N	2.36	0.41
2:CG:244:PHE:CD2	2:CG:358:GLN:HG2	2.56	0.41
6:D2:54:ASP:OD1	6:D2:55:GLU:N	2.52	0.41
6:D3:403:ARG:HA	6:D3:406:GLU:CD	2.41	0.41
2:DE:102:ASN:OD1	2:DE:104:ALA:N	2.53	0.41
2:DE:125:LEU:O	2:DE:128:LEU:HG	2.21	0.41
2:DE:329:ASN:HB2	3:DF:174:LYS:NZ	2.36	0.41
3:DF:114:ASP:OD1	3:DF:114:ASP:N	2.53	0.41
3:DF:152:ILE:HD13	3:DF:155:ILE:HD11	2.02	0.41
2:DG:244:PHE:HB2	2:DG:356:ASN:HD21	1.86	0.41
2:DG:411:GLU:H	2:DG:411:GLU:HG3	1.75	0.41
3:ED:325:GLU:HB3	2:EE:221:ARG:NH1	2.35	0.41
2:EE:28:HIS:HE1	2:EE:243:ARG:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:36:TYR:CE2	3:EF:44:LEU:HD13	2.56	0.41
3:EF:232:THR:HG22	3:EF:270:PHE:CD1	2.56	0.41
3:EF:322:SER:HB3	3:EF:325:GLU:OE1	2.21	0.41
3:EF:325:GLU:O	3:EF:329:GLN:HG2	2.21	0.41
3:EF:350:LYS:HE3	2:EG:181:VAL:N	2.36	0.41
2:EG:102:ASN:ND2	2:EG:105:ARG:HB2	2.36	0.41
2:EG:221:ARG:HB3	11:H4:296:TYR:HD2	1.85	0.41
3:FD:150:LEU:O	3:FD:154:LYS:HG2	2.21	0.41
2:FE:27:GLU:HG2	2:FE:28:HIS:N	2.36	0.41
2:FE:141:PHE:HB2	2:FE:173:PRO:HD3	2.04	0.41
3:FF:240:LEU:HD22	3:FF:248:ALA:HB1	2.03	0.41
2:FG:30:ILE:HG13	2:FG:36:MET:HE3	2.02	0.41
9:G1:520:ALA:O	9:G1:523:TYR:HB3	2.20	0.41
9:G1:523:TYR:HD2	9:G1:528:LEU:HG	1.86	0.41
9:G2:217:LYS:HG3	9:G2:218:GLU:H	1.86	0.41
9:G2:278:VAL:HG12	9:G2:280:GLU:OE1	2.21	0.41
10:G5:393:TYR:N	10:G5:495:LYS:O	2.31	0.41
10:G5:514:ASN:OD1	10:G5:517:GLY:N	2.54	0.41
3:GD:246:LEU:HB3	3:GD:353:VAL:O	2.20	0.41
3:GD:269:GLY:HA2	3:GD:300:MET:SD	2.60	0.41
3:GF:34:GLY:O	3:GF:58:LYS:HA	2.21	0.41
2:GG:84:ARG:HG2	2:GG:85:GLN:N	2.36	0.41
2:GG:280:LYS:HA	2:GG:280:LYS:HD2	1.81	0.41
2:GI:192:HIS:HB2	2:GI:424:ASP:OD2	2.20	0.41
2:GI:213:CYS:HA	2:GI:217:LEU:HB2	2.03	0.41
2:GI:417:GLU:H	2:GI:417:GLU:CD	2.23	0.41
11:H3:289:ILE:HB	11:H3:315:ARG:HH22	1.85	0.41
11:H4:214:GLN:NE2	11:H4:214:GLN:H	2.18	0.41
11:H4:215:ARG:HH11	11:H4:216:LYS:N	2.17	0.41
3:HD:385:PHE:CZ	3:HD:408:PHE:HB3	2.56	0.41
2:HE:88:HIS:H	2:HE:91:GLN:NE2	2.19	0.41
2:HE:292:THR:HA	2:HE:295:CYS:SG	2.61	0.41
2:HE:308:ARG:HH12	2:HE:341:ILE:HD13	1.85	0.41
2:HI:346:TRP:N	2:HI:346:TRP:CD1	2.87	0.41
2:IE:33:ASP:OD1	2:IE:34:GLY:N	2.53	0.41
2:IE:326:LYS:NZ	3:IF:208:TYR:HA	2.37	0.41
3:IF:249:ASP:OD2	3:IF:251:ARG:HB2	2.21	0.41
3:IF:259:PRO:HA	2:IG:404:PHE:CD1	2.56	0.41
2:IG:90:GLU:H	2:IG:90:GLU:CD	2.23	0.41
2:IG:284:GLU:HB3	2:IG:285:GLN:H	1.67	0.41
2:IG:408:TYR:HA	2:IG:411:GLU:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:333:ALA:HA	2:II:336:LYS:HD2	2.03	0.41
13:J2:132:HIS:NE2	13:J2:179:TYR:HE1	2.19	0.41
13:J3:116:CYS:O	13:J3:120:LEU:HG	2.21	0.41
3:JD:47:ILE:HG12	3:JD:59:TYR:CE2	2.56	0.41
3:JD:117:LEU:HA	3:JD:120:VAL:HG22	2.03	0.41
3:JD:309:ARG:HD2	3:JD:340:TYR:O	2.21	0.41
3:JD:406:MET:O	3:JD:409:THR:OG1	2.15	0.41
2:JE:271:THR:HA	2:JE:302:MET:CE	2.52	0.41
3:JF:182:PRO:HA	3:JF:381:ILE:HD11	2.03	0.41
3:JF:217:LEU:O	3:JF:219:THR:N	2.49	0.41
2:JG:81:GLY:O	2:JG:84:ARG:HD2	2.21	0.41
3:JH:406:MET:HB2	3:NH:306:ARG:CZ	2.51	0.41
14:K2:336:LEU:HB3	14:K2:464:ARG:NH2	2.35	0.41
14:K2:345:GLU:HA	14:K2:348:GLU:HG2	2.02	0.41
14:K3:270:PRO:HA	14:K3:271:PRO:HD2	1.97	0.41
3:KD:148:GLY:HA2	3:KD:151:LEU:HG	2.03	0.41
3:KD:323:MET:HE3	2:KE:224:TYR:CD1	2.56	0.41
2:KE:60:LYS:HD3	2:KE:60:LYS:HA	1.77	0.41
2:KE:70:LEU:HD21	2:KE:149:PHE:CE1	2.56	0.41
2:KE:93:ILE:HD13	2:KE:93:ILE:HA	1.93	0.41
2:KG:19:ALA:HA	2:KG:22:GLU:OE1	2.21	0.41
2:KG:243:ARG:HD2	2:KG:244:PHE:CG	2.55	0.41
3:KH:306:ARG:HH12	3:KH:340:TYR:HE2	1.68	0.41
2:KI:16:ILE:HG23	25:KI:501:GTP:HN1	1.85	0.41
2:KI:345:ASP:N	2:KI:345:ASP:OD1	2.54	0.41
15:L2:62:PHE:HB3	3:LD:410:GLU:OE2	2.21	0.41
3:LF:134:GLN:HA	3:LF:165:ASN:O	2.21	0.41
3:LF:192:LEU:HD23	3:LF:192:LEU:HA	1.89	0.41
3:LF:330:MET:HB2	3:LF:334:GLN:HE22	1.86	0.41
2:LG:276:ILE:HA	2:LG:276:ILE:HD12	1.85	0.41
2:LG:280:LYS:HA	2:LG:280:LYS:HD2	1.77	0.41
2:LI:113:GLU:O	2:LI:114:ILE:HD13	2.21	0.41
2:ME:3:GLU:N	2:ME:3:GLU:OE1	2.54	0.41
2:ME:214:ARG:HA	2:ME:219:ILE:O	2.21	0.41
2:ME:353:VAL:HG12	3:MF:177:ASP:OD1	2.20	0.41
3:MF:70:PRO:O	3:MF:73:MET:HG3	2.20	0.41
3:MF:406:MET:O	3:MF:410:GLU:OE1	2.38	0.41
2:MG:21:TRP:CZ3	2:MG:63:PRO:HB3	2.56	0.41
2:MG:84:ARG:HG2	2:MG:85:GLN:N	2.36	0.41
2:MG:434:GLU:N	18:O2:46:ARG:HH22	2.19	0.41
3:MH:1:MET:O	3:MH:129:CYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:213:ARG:NH1	3:MH:297:LYS:HB3	2.36	0.41
3:MH:350:LYS:HA	3:MH:350:LYS:HD3	1.96	0.41
3:ND:83:GLN:OE1	3:ND:83:GLN:N	2.38	0.41
3:ND:165:ASN:HD21	3:ND:200:TYR:HE2	1.69	0.41
3:ND:239:CYS:HB3	3:ND:246:LEU:HD11	2.03	0.41
3:ND:323:MET:SD	3:ND:323:MET:N	2.88	0.41
3:ND:391:ARG:C	3:ND:392:LYS:HG3	2.41	0.41
2:NE:155:GLU:O	2:NE:159:VAL:HG13	2.21	0.41
3:NF:234:SER:O	3:NF:238:THR:HG23	2.21	0.41
3:NF:305:PRO:HB2	3:NF:310:TYR:CE1	2.48	0.41
2:NG:169:PHE:HA	2:NG:202:PHE:O	2.21	0.41
2:NG:213:CYS:HA	2:NG:217:LEU:HB2	2.02	0.41
2:NG:260:VAL:HG13	3:NH:397:TRP:CZ2	2.53	0.41
3:NH:285:THR:O	3:NH:288:GLU:HG3	2.21	0.41
18:O2:44:ASN:OD1	18:O2:48:HIS:HB2	2.21	0.41
3:OD:282:ARG:NH2	3:OD:288:GLU:OE1	2.46	0.41
2:OE:234:ILE:HD13	2:OE:234:ILE:HA	1.90	0.41
2:OG:13:GLY:HA2	2:OG:16:ILE:HD13	2.03	0.41
2:OG:146:GLY:N	25:OG:501:GTP:O2B	2.53	0.41
2:OG:163:LYS:HD3	2:OG:163:LYS:HA	1.73	0.41
3:OH:284:LEU:HD12	3:OH:284:LEU:HA	1.94	0.41
2:OI:89:PRO:HB2	2:OI:90:GLU:OE1	2.21	0.41
2:OI:121:ARG:HA	2:OI:124:LYS:HZ2	1.86	0.41
2:OI:190:THR:O	2:OI:194:THR:OG1	2.29	0.41
19:P1:48:LEU:HB3	19:P1:50:GLN:NE2	2.35	0.41
19:P1:279:PRO:O	19:P1:280:SER:C	2.58	0.41
19:P1:338:ILE:HG21	19:P1:605:VAL:HG11	2.02	0.41
19:P1:476:CYS:SG	19:P1:477:VAL:N	2.94	0.41
19:P2:159:GLY:HA3	19:P2:179:ASN:ND2	2.37	0.41
19:P2:426:THR:OG1	19:P2:428:ASP:OD1	2.35	0.41
2:PE:110:ILE:O	2:PE:114:ILE:HG12	2.21	0.41
2:PE:145:THR:HG1	25:PE:501:GTP:PB	2.44	0.41
2:PE:306:ASP:OD2	2:PE:308:ARG:HB2	2.21	0.41
2:PE:352:LYS:HA	3:PF:177:ASP:OD1	2.21	0.41
2:PI:21:TRP:CZ2	2:PI:65:ALA:HB2	2.56	0.41
2:PI:208:ALA:HA	2:PI:211:ASP:HB2	2.03	0.41
20:Q1:1362:GLU:O	20:Q1:1365:ALA:HB3	2.21	0.41
20:Q2:1474:PHE:O	20:Q2:1478:LEU:HG	2.20	0.41
20:Q2:1487:GLU:HA	20:Q2:1490:PHE:HD2	1.85	0.41
2:QE:174:ALA:HA	2:QE:205:ASP:OD1	2.20	0.41
2:QE:246:GLY:HA3	2:QE:355:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:260:VAL:O	3:QF:397:TRP:HH2	2.02	0.41
2:QE:394:LYS:O	2:QE:398:MET:HG3	2.21	0.41
3:QH:39:ASP:OD1	3:QH:39:ASP:N	2.52	0.41
3:QH:51:TYR:CD2	3:QH:59:TYR:HB3	2.56	0.41
3:QH:67:ASP:N	3:QH:67:ASP:OD1	2.52	0.41
3:QH:228:LEU:O	3:QH:232:THR:HG23	2.20	0.41
2:QI:168:GLU:OE1	2:QI:198:SER:OG	2.39	0.41
2:RE:140:SER:HA	2:RE:170:ALA:HB1	2.02	0.41
3:RF:186:THR:HB	3:RF:385:PHE:CE1	2.56	0.41
2:RG:121:ARG:O	2:RG:125:LEU:HD23	2.20	0.41
2:RG:323:VAL:HG12	2:RG:324:VAL:N	2.36	0.41
3:RH:52:ASN:CG	3:RH:62:ARG:HD3	2.41	0.41
2:RI:99:ALA:HA	2:RI:105:ARG:HG2	2.03	0.41
2:RI:420:GLU:HA	2:RI:423:GLU:OE2	2.21	0.41
3:RJ:291:GLN:NE2	3:RJ:295:ASP:OD1	2.54	0.41
2:SE:280:LYS:HD2	2:SE:280:LYS:HA	1.91	0.41
2:SE:293:ASN:O	2:SE:297:GLU:HB2	2.21	0.41
2:SE:311:LYS:HZ2	2:SE:342:GLN:HB3	1.85	0.41
3:SF:18:ALA:O	3:SF:22:GLU:HG3	2.21	0.41
3:SF:138:SER:HB2	3:SF:169:VAL:HG12	2.02	0.41
3:SF:171:PRO:HG3	3:SF:181:GLU:OE2	2.21	0.41
3:SF:221:THR:OG1	3:SF:224:ASP:N	2.53	0.41
3:SH:191:GLN:HG2	3:SH:195:ASN:HD22	1.85	0.41
3:SH:272:PRO:HA	3:SH:292:GLN:OE1	2.20	0.41
3:SH:310:TYR:O	3:SH:342:VAL:HG13	2.21	0.41
3:SH:372:THR:HA	3:SH:375:GLN:HE22	1.86	0.41
3:SH:378:PHE:CE1	3:SH:419:VAL:HA	2.55	0.41
3:SH:382:SER:O	3:SH:386:THR:HG23	2.20	0.41
2:SI:31:GLN:N	2:SI:31:GLN:OE1	2.54	0.41
3:SJ:395:LEU:O	3:SJ:399:THR:HG23	2.21	0.41
3:TF:2:ARG:NH1	2:TG:97:GLU:HA	2.36	0.41
3:TF:6:HIS:HD1	3:TF:21:TRP:HH2	1.69	0.41
3:TF:8:GLN:OE1	3:TF:65:LEU:HG	2.20	0.41
3:TF:318:ARG:HD3	3:TF:358:PRO:HG3	2.03	0.41
2:TG:189:LEU:HD11	2:TG:418:PHE:HE1	1.86	0.41
2:TG:255:PHE:N	2:TG:255:PHE:CD1	2.89	0.41
2:TG:313:MET:HG3	2:TG:380:ASN:O	2.21	0.41
2:TG:430:LYS:HA	2:TG:433:GLU:OE1	2.21	0.41
2:TI:55:GLU:HG3	2:TI:60:LYS:C	2.41	0.41
3:TJ:4:ILE:HB	3:TJ:50:TYR:CE1	2.56	0.41
3:TJ:235:GLY:O	3:TJ:318:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:170:VAL:N	3:UD:202:ILE:O	2.46	0.41
2:UE:140:SER:HA	2:UE:170:ALA:HB1	2.01	0.41
3:UF:12:CYS:O	3:UF:16:ILE:HG12	2.21	0.41
3:UF:310:TYR:HD1	3:UF:371:SER:HB2	1.84	0.41
3:UH:7:LEU:HD12	3:UH:64:VAL:HB	2.03	0.41
3:UH:12:CYS:O	3:UH:16:ILE:HG12	2.22	0.41
3:UH:375:GLN:OE1	3:UH:375:GLN:N	2.45	0.41
3:VD:112:LEU:O	3:VD:116:VAL:HG13	2.21	0.41
2:VE:114:ILE:O	2:VE:117:LEU:HG	2.21	0.41
2:VE:424:ASP:O	2:VE:428:LEU:HD23	2.20	0.41
3:VF:356:ILE:HA	3:VF:357:PRO:HD3	1.96	0.41
2:VG:9:VAL:HA	2:VG:68:VAL:O	2.21	0.41
2:VG:246:GLY:HA2	2:VG:357:TYR:CD2	2.56	0.41
3:VH:217:LEU:O	3:VH:219:THR:N	2.50	0.41
3:VH:405:GLU:O	3:VH:409:THR:HG23	2.20	0.41
2:WI:31:GLN:OE1	2:WI:31:GLN:N	2.54	0.41
2:WI:174:ALA:HB1	2:WI:207:GLU:OE2	2.21	0.41
2:WI:188:ILE:HA	2:WI:191:THR:OG1	2.21	0.41
24:YL:93:THR:HG22	24:YL:151:TRP:HD1	1.86	0.41
1:A2:348:VAL:HG12	1:A2:352:LYS:NZ	2.35	0.40
1:A3:68:GLU:OE2	4:B2:270:ARG:NE	2.54	0.40
3:AF:196:THR:HG23	3:AF:264:HIS:CG	2.56	0.40
3:AF:198:GLU:HG2	3:AF:266:PHE:CE2	2.56	0.40
2:AG:229:ARG:NH1	2:AG:366:GLY:HA2	2.36	0.40
3:AH:4:ILE:HD11	3:AH:131:GLN:HB2	2.02	0.40
3:AH:324:LYS:O	3:AH:328:GLU:HG3	2.22	0.40
2:AI:327:ASP:N	2:AI:327:ASP:OD1	2.54	0.40
3:BF:103:LYS:O	3:BF:108:GLU:HG2	2.21	0.40
3:BH:350:LYS:HD3	2:BI:180:ALA:HA	2.04	0.40
2:BI:175:PRO:C	2:BI:390:ARG:HH11	2.24	0.40
5:C3:167:MET:HE3	5:C3:315:ARG:HB2	2.03	0.40
5:C3:190:GLY:O	5:C3:193:GLN:NE2	2.54	0.40
5:C3:410:GLU:OE1	5:C3:410:GLU:N	2.53	0.40
5:C7:165:ASP:OD1	6:D8:241:TYR:HB2	2.20	0.40
3:CF:42:LEU:HA	3:CF:45:GLU:HB3	2.03	0.40
2:CG:139:HIS:HB2	2:CG:146:GLY:O	2.21	0.40
2:CG:219:ILE:HG12	11:H3:33:ASN:O	2.21	0.40
3:CH:246:LEU:CB	3:CH:353:VAL:H	2.34	0.40
3:CH:321:MET:N	3:CH:321:MET:SD	2.94	0.40
2:CI:148:GLY:O	2:CI:151:SER:N	2.54	0.40
2:CI:219:ILE:HG22	2:CI:222:PRO:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CI:237:SER:HA	2:CI:320:ARG:HH11	1.86	0.40
2:CI:288:VAL:HA	2:CI:291:ILE:HG12	2.02	0.40
3:CJ:114:ASP:N	3:CJ:114:ASP:OD1	2.54	0.40
3:DD:2:ARG:HB3	3:DD:131:GLN:NE2	2.36	0.40
3:DD:3:GLU:OE2	3:DD:129:CYS:N	2.52	0.40
3:DD:11:GLN:NE2	25:DD:501:GTP:H5''	2.36	0.40
2:DE:218:ASP:O	2:DE:219:ILE:HD13	2.21	0.40
2:DE:304:LYS:N	2:DE:304:LYS:HD2	2.35	0.40
2:DE:419:SER:O	2:DE:422:ARG:HG2	2.20	0.40
2:DE:430:LYS:HA	2:DE:433:GLU:CD	2.41	0.40
3:DF:317:PHE:HE2	3:DF:351:THR:HB	1.86	0.40
3:DH:382:SER:O	3:DH:386:THR:HG23	2.21	0.40
7:E2:112:HIS:HA	7:E2:119:TRP:CE3	2.55	0.40
3:ED:2:ARG:HD3	3:ED:240:LEU:HD12	2.03	0.40
3:ED:77:ARG:O	3:ED:82:GLY:HA3	2.21	0.40
3:ED:350:LYS:HZ2	2:EE:181:VAL:N	2.10	0.40
2:EE:415:GLU:OE1	2:EE:415:GLU:N	2.55	0.40
3:EF:270:PHE:CG	3:EF:271:ALA:N	2.88	0.40
2:EG:431:ASP:O	2:EG:434:GLU:HG3	2.21	0.40
3:EH:46:ARG:O	3:EH:49:VAL:HG12	2.21	0.40
3:EH:249:ASP:OD1	3:EH:251:ARG:N	2.51	0.40
8:F2:162:ARG:HB3	8:F2:311:ARG:NH1	2.35	0.40
8:F2:163:LEU:O	8:F2:166:GLU:HG2	2.21	0.40
8:F6:129:GLN:HA	8:F6:132:HIS:NE2	2.36	0.40
8:F7:373:ASN:HA	8:F7:376:MET:HE1	2.02	0.40
2:FE:187:SER:O	2:FE:191:THR:HG23	2.21	0.40
2:FE:271:THR:OG1	2:FE:301:GLN:HG3	2.21	0.40
3:FF:164:MET:HG3	3:FF:164:MET:O	2.21	0.40
2:FG:143:GLY:H	2:FG:147:SER:HB3	1.86	0.40
2:FG:372:GLN:HB3	2:FG:373:ARG:HH11	1.87	0.40
3:FH:266:PHE:HB3	3:FH:368:ILE:HD11	2.02	0.40
9:G2:418:LYS:HB3	9:G2:444:LEU:HD12	2.03	0.40
10:G5:81:PHE:HB2	10:G5:104:ILE:HB	2.01	0.40
10:G5:178:LEU:HD13	10:G5:178:LEU:HA	1.97	0.40
10:G5:307:TYR:CE2	10:G5:313:TRP:HZ2	2.39	0.40
3:GD:147:MET:O	3:GD:151:LEU:HB2	2.20	0.40
2:GE:262:TYR:HE1	2:GE:264:ARG:NH2	2.18	0.40
3:GF:247:ASN:CB	3:GF:252:LYS:HG2	2.41	0.40
2:GG:260:VAL:HA	2:GG:261:PRO:HD3	1.99	0.40
2:GG:273:ALA:HB3	2:GG:274:PRO:HD3	2.03	0.40
3:GH:375:GLN:OE1	3:GH:375:GLN:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:297:GLU:CD	2:GI:299:ALA:H	2.24	0.40
11:H3:306:ARG:HA	11:H3:309:GLN:OE1	2.21	0.40
11:H4:11:THR:HG22	11:H4:12:PRO:HD2	2.03	0.40
11:H4:225:VAL:HG21	11:H4:240:VAL:HG12	2.02	0.40
11:H4:289:ILE:HD12	11:H4:315:ARG:NH2	2.35	0.40
3:HD:266:PHE:CD1	3:HD:370:ASN:HB2	2.56	0.40
2:HG:178:SER:OG	2:HG:180:ALA:O	2.38	0.40
3:HH:385:PHE:HZ	3:HH:408:PHE:HB3	1.86	0.40
2:HI:377:MET:SD	2:HI:379:SER:HB3	2.61	0.40
12:I3:48:TYR:HA	12:I3:51:ASP:OD2	2.21	0.40
3:IF:2:ARG:HB3	3:IF:131:GLN:NE2	2.36	0.40
3:IF:36:TYR:CZ	3:IF:38:GLY:HA2	2.55	0.40
3:IF:47:ILE:HD12	3:IF:47:ILE:HA	1.89	0.40
3:IF:324:LYS:HE2	2:IG:222:PRO:CD	2.52	0.40
3:IF:374:ILE:HG22	3:IF:374:ILE:O	2.21	0.40
2:IG:17:GLY:O	2:IG:21:TRP:HD1	2.04	0.40
2:IG:231:ILE:HD12	2:IG:231:ILE:HA	1.98	0.40
2:II:71:GLU:OE2	2:II:73:THR:OG1	2.28	0.40
13:J2:65:ILE:HD12	13:J2:65:ILE:HG23	1.87	0.40
3:JD:186:THR:HA	3:JD:189:VAL:HG12	2.03	0.40
2:JE:331:ALA:O	2:JE:335:ILE:HG12	2.22	0.40
3:JF:246:LEU:HB3	3:JF:353:VAL:O	2.21	0.40
3:JF:337:ASN:HD22	3:JF:340:TYR:HD2	1.68	0.40
2:JG:173:PRO:HG3	2:JG:183:GLU:OE2	2.21	0.40
3:JH:228:LEU:O	3:JH:232:THR:HG23	2.21	0.40
14:K2:404:HIS:O	14:K2:405:VAL:HB	2.21	0.40
14:K3:203:LYS:HG2	14:K3:207:LYS:NZ	2.36	0.40
2:KE:6:SER:O	2:KE:7:ILE:HD13	2.21	0.40
2:KE:139:HIS:CE1	2:KE:170:ALA:HB2	2.56	0.40
2:KE:269:LEU:HD21	2:KE:303:VAL:HB	2.04	0.40
2:KE:296:PHE:HE2	2:KE:335:ILE:HG21	1.85	0.40
2:KE:326:LYS:HD2	3:KF:208:TYR:CE2	2.56	0.40
3:KF:186:THR:HG21	3:KF:385:PHE:HB2	2.03	0.40
2:KG:166:LYS:N	2:KG:199:ASP:OD2	2.53	0.40
2:KG:402:ARG:HB2	2:KG:405:VAL:HG21	2.02	0.40
3:KH:180:VAL:HG13	3:KH:184:ASN:OD1	2.20	0.40
3:KH:345:ILE:HG23	3:KH:348:ASN:OD1	2.21	0.40
3:KH:378:PHE:O	3:KH:381:ILE:HG22	2.21	0.40
2:KI:124:LYS:HA	2:KI:127:ASP:OD2	2.21	0.40
2:KI:317:MET:HE3	2:KI:377:MET:HG2	2.02	0.40
15:L2:58:SER:O	15:L2:60:LYS:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:289:LEU:HD21	3:LD:363:MET:HB3	2.03	0.40
2:LE:167:LEU:HD12	2:LE:169:PHE:HE1	1.86	0.40
3:LF:305:PRO:HB2	3:LF:310:TYR:CE1	2.57	0.40
2:LG:42:ILE:HD13	2:LG:59:GLY:HA2	2.03	0.40
2:LG:172:TYR:CG	2:LG:173:PRO:HD2	2.56	0.40
2:LG:257:THR:HA	3:LH:397:TRP:CZ2	2.55	0.40
3:LH:6:HIS:HA	3:LH:134:GLN:OE1	2.21	0.40
2:ME:103:TYR:OH	2:ME:193:THR:HG21	2.20	0.40
2:MG:175:PRO:HD2	2:MG:207:GLU:CD	2.41	0.40
3:MH:7:LEU:O	3:MH:135:LEU:HA	2.21	0.40
3:MH:47:ILE:HD12	3:MH:59:TYR:CE2	2.56	0.40
3:MH:250:LEU:H	3:MH:250:LEU:HG	1.72	0.40
3:ND:133:PHE:N	3:ND:164:MET:HE1	2.31	0.40
3:ND:266:PHE:HD1	3:ND:370:ASN:HB2	1.85	0.40
2:NE:244:PHE:CE2	2:NE:358:GLN:HG2	2.57	0.40
2:NE:268:PRO:HB2	2:NE:378:LEU:HG	2.02	0.40
3:NF:20:PHE:O	3:NF:24:ILE:HG13	2.21	0.40
3:NF:180:VAL:O	3:NF:183:TYR:HB2	2.21	0.40
2:NG:163:LYS:HA	2:NG:163:LYS:HD3	1.92	0.40
18:O1:12:LYS:O	18:O1:18:TYR:HE2	2.04	0.40
18:O2:38:TYR:CE1	20:Q2:1418:MET:HE1	2.56	0.40
2:OE:324:VAL:HG11	3:OF:219:THR:HG22	2.03	0.40
3:OF:101:TRP:CB	3:OF:184:ASN:HD22	2.34	0.40
2:OG:192:HIS:CE1	2:OG:421:ALA:HB2	2.55	0.40
3:OH:41:ASP:O	3:OH:45:GLU:OE1	2.39	0.40
3:OH:244:GLY:O	3:OH:246:LEU:HD23	2.21	0.40
2:OI:141:PHE:CE1	2:OI:191:THR:HG22	2.56	0.40
2:OI:172:TYR:HE2	2:OI:175:PRO:HG3	1.86	0.40
2:OI:319:TYR:HA	2:OI:374:ALA:O	2.21	0.40
19:P1:361:THR:HG23	19:P1:362:MET:SD	2.60	0.40
19:P1:545:SER:OG	19:P1:566:ASP:HA	2.21	0.40
19:P2:138:VAL:HG22	19:P2:150:GLY:HA3	2.02	0.40
19:P2:272:LEU:HD11	19:P2:286:LYS:HG2	2.03	0.40
2:PE:102:ASN:ND2	2:PE:411:GLU:HG2	2.36	0.40
3:PF:327:ASP:O	3:PF:330:MET:HG2	2.22	0.40
3:PH:37:HIS:HA	24:YM:64:ARG:CZ	2.51	0.40
3:PH:77:ARG:HA	3:PH:82:GLY:HA3	2.03	0.40
2:PI:112:LYS:HE2	2:PI:112:LYS:HB2	1.93	0.40
20:Q1:1414:LEU:HD23	20:Q1:1414:LEU:HA	1.94	0.40
20:Q1:1488:GLU:O	20:Q1:1492:HIS:CD2	2.74	0.40
20:Q2:1489:GLU:HA	20:Q2:1492:HIS:CD2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:251:ASP:HB3	2:QE:254:GLU:OE1	2.21	0.40
3:QF:380:ARG:CZ	3:QF:380:ARG:HB3	2.51	0.40
2:QG:50:ASN:O	2:QG:64:ARG:NH1	2.54	0.40
2:QG:83:TYR:O	2:QG:86:LEU:HB2	2.21	0.40
2:QG:196:GLU:HG2	2:QG:197:HIS:ND1	2.35	0.40
2:QG:326:LYS:HG3	2:QG:327:ASP:H	1.86	0.40
3:QH:14:ASN:ND2	3:QH:72:THR:HB	2.37	0.40
2:QI:70:LEU:HG	2:QI:149:PHE:CZ	2.56	0.40
2:QI:220:GLU:O	2:QI:221:ARG:NE	2.51	0.40
3:RH:157:GLU:H	3:RH:157:GLU:CD	2.24	0.40
3:RH:249:ASP:O	3:RH:253:LEU:HG	2.22	0.40
3:RJ:2:ARG:HD3	3:RJ:131:GLN:HG3	2.02	0.40
3:RJ:12:CYS:O	3:RJ:13:GLY:C	2.60	0.40
3:RJ:414:ASN:O	3:RJ:418:LEU:HD23	2.21	0.40
2:SG:6:SER:O	2:SG:7:ILE:HD13	2.20	0.40
2:SG:260:VAL:HG23	2:SG:265:ILE:O	2.21	0.40
3:SH:109:GLY:O	3:SH:113:VAL:HG22	2.21	0.40
3:SH:392:LYS:HE2	3:SH:392:LYS:HB2	1.88	0.40
2:SI:220:GLU:OE1	2:SI:220:GLU:N	2.54	0.40
2:SI:279:GLU:O	2:SI:283:HIS:CD2	2.73	0.40
3:TF:6:HIS:HB3	3:TF:63:ALA:HB2	2.03	0.40
3:TF:21:TRP:CE3	3:TF:85:PHE:HZ	2.38	0.40
3:TH:36:TYR:OH	3:TH:39:ASP:OD1	2.18	0.40
2:TI:216:ASN:ND2	2:TI:275:VAL:HG23	2.30	0.40
2:TI:265:ILE:HD12	2:TI:432:TYR:CE1	2.56	0.40
3:TJ:139:LEU:HD21	3:TJ:170:VAL:HG22	2.03	0.40
3:UD:46:ARG:NH2	3:UD:240:LEU:O	2.33	0.40
3:UD:100:ASN:HB3	3:UD:103:LYS:HB2	2.02	0.40
3:UD:337:ASN:N	3:UD:337:ASN:OD1	2.54	0.40
2:UE:175:PRO:HD2	2:UE:207:GLU:OE1	2.22	0.40
2:UE:352:LYS:HA	2:UE:352:LYS:HD2	1.91	0.40
3:UF:116:VAL:O	3:UF:120:VAL:HG13	2.21	0.40
3:UF:211:CYS:HA	3:UF:215:LEU:HD13	2.03	0.40
2:UG:88:HIS:HE1	2:UG:90:GLU:HG2	1.87	0.40
2:UG:105:ARG:HG2	2:UG:109:THR:HG21	2.02	0.40
2:UG:189:LEU:HA	2:UG:192:HIS:CE1	2.56	0.40
2:UG:234:ILE:CD1	2:UG:272:TYR:HB2	2.51	0.40
3:UH:143:THR:HG22	3:UH:147:MET:HE1	2.02	0.40
3:VD:267:MET:HG2	3:VD:301:ALA:CB	2.44	0.40
3:VD:273:LEU:H	3:VD:292:GLN:HE22	1.69	0.40
3:VF:40:SER:HB3	3:VF:42:LEU:CD2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:116:VAL:O	3:VF:120:VAL:HG13	2.21	0.40
2:VG:272:TYR:CD2	2:VG:275:VAL:HG13	2.55	0.40
3:VH:12:CYS:HA	3:VH:15:GLN:OE1	2.20	0.40
3:VH:374:ILE:O	3:VH:374:ILE:HG22	2.21	0.40
2:WE:246:GLY:HA3	2:WE:356:ASN:HA	2.03	0.40
2:WE:259:LEU:HD13	2:WE:314:ALA:HB1	2.02	0.40
3:WF:52:ASN:O	3:WF:60:VAL:HG12	2.21	0.40
3:WF:247:ASN:HB3	3:WF:252:LYS:HE2	2.02	0.40
2:WG:131:GLY:O	23:XK:71:HIS:CE1	2.73	0.40
3:WH:190:HIS:HD2	3:WH:191:GLN:HG3	1.86	0.40
3:WH:266:PHE:HB3	3:WH:368:ILE:HD11	2.03	0.40
2:WI:121:ARG:O	2:WI:125:LEU:HD23	2.22	0.40
2:WI:311:LYS:N	2:WI:382:THR:OG1	2.37	0.40
22:XC:80:ILE:HD11	22:XC:160:CYS:HB2	2.03	0.40
22:XE:62:PRO:HG3	22:XE:67:LYS:O	2.21	0.40
22:XE:72:LYS:CE	23:XL:62:ARG:HB3	2.51	0.40
24:YK:22:GLN:O	24:YK:25:PHE:HB3	2.20	0.40
24:YK:93:THR:O	24:YK:97:LEU:HG	2.21	0.40
24:YL:22:GLN:HG3	24:YL:23:PHE:N	2.35	0.40
24:YL:96:LEU:HD21	24:YL:150:GLU:OE2	2.21	0.40
24:YL:148:MET:O	24:YL:151:TRP:HB3	2.20	0.40
24:YM:47:GLU:HA	24:YM:50:GLN:OE1	2.21	0.40
24:YN:10:SER:HB2	24:YN:14:LYS:NZ	2.36	0.40
24:YN:90:THR:N	24:YN:93:THR:OG1	2.54	0.40
1:A2:136:LEU:HD21	1:A2:264:PHE:CZ	2.57	0.40
2:AE:56:THR:CB	2:BE:285:GLN:HG3	2.51	0.40
2:AE:233:GLN:HE22	2:AE:234:ILE:HD13	1.86	0.40
2:AE:279:GLU:OE2	2:AE:280:LYS:HG2	2.21	0.40
3:AF:331:LEU:HD23	3:AF:335:ASN:OD1	2.21	0.40
3:AF:350:LYS:HE3	2:AG:181:VAL:N	2.37	0.40
3:AH:323:MET:O	3:AH:326:VAL:HG12	2.21	0.40
2:AI:133:GLN:HB3	2:AI:252:LEU:HD21	2.02	0.40
4:B3:53:ILE:HG13	4:B3:54:VAL:N	2.35	0.40
4:B3:368:LYS:HG2	4:B3:368:LYS:HZ3	1.72	0.40
4:B8:119:LEU:HB3	4:B8:389:LYS:HZ2	1.85	0.40
4:B8:275:PHE:CZ	4:B8:279:LEU:HD11	2.56	0.40
2:BE:288:VAL:HA	2:BE:291:ILE:HG12	2.02	0.40
3:BF:52:ASN:CG	3:BF:62:ARG:HD3	2.41	0.40
3:BF:299:MET:HE2	3:BF:303:CYS:H	1.85	0.40
2:BG:265:ILE:HG13	2:BG:432:TYR:HE1	1.86	0.40
2:BG:332:ILE:O	2:BG:336:LYS:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:144:GLY:N	25:BH:501:GTP:O2B	2.53	0.40
3:BH:238:THR:HG21	3:BH:318:ARG:NH1	2.36	0.40
3:BH:381:ILE:HD12	3:BH:381:ILE:HA	1.87	0.40
2:BI:113:GLU:N	2:BI:113:GLU:OE1	2.53	0.40
2:BI:185:TYR:O	2:BI:188:ILE:HG22	2.21	0.40
2:BI:265:ILE:HD12	2:BI:432:TYR:CE1	2.56	0.40
5:C4:431:ILE:O	5:C4:435:GLN:HG2	2.21	0.40
5:C7:239:LYS:HE2	7:E2:57:ASP:OD2	2.21	0.40
3:CF:323:MET:O	3:CF:326:VAL:HG22	2.21	0.40
2:CG:392:ASP:HB3	2:CG:425:LEU:HD21	2.03	0.40
3:CH:11:GLN:OE1	25:CH:501:GTP:N2	2.54	0.40
3:CH:211:CYS:O	3:CH:215:LEU:HB2	2.21	0.40
3:CH:321:MET:HE2	3:CH:353:VAL:HG13	2.03	0.40
3:CJ:300:MET:HB3	3:CJ:300:MET:HE2	1.97	0.40
3:CJ:318:ARG:CZ	3:CJ:358:PRO:HG3	2.52	0.40
3:CJ:357:PRO:HB3	3:CJ:362:LYS:O	2.20	0.40
6:D2:36:TYR:CG	6:D2:37:THR:N	2.89	0.40
6:D3:72:ASP:O	6:D3:75:GLU:HG3	2.21	0.40
6:D7:368:LEU:HD21	6:D8:251:ALA:H	1.85	0.40
6:D7:371:ASP:OD1	6:D7:373:ALA:N	2.54	0.40
6:D8:272:ARG:O	6:D8:275:SER:OG	2.32	0.40
6:D9:241:TYR:C	6:D9:243:HIS:H	2.24	0.40
3:DD:145:SER:HB2	3:DD:188:SER:HB3	2.04	0.40
2:DE:49:PHE:HB2	2:DE:53:PHE:HB2	2.03	0.40
3:DF:371:SER:HG	3:DF:372:THR:N	2.19	0.40
3:DF:379:LYS:NZ	3:DF:419:VAL:HG13	2.36	0.40
2:DG:34:GLY:HA2	2:DG:86:LEU:HD23	2.03	0.40
3:DH:396:HIS:CE1	3:DH:397:TRP:CD2	3.10	0.40
7:E3:45:GLN:OE1	7:E3:46:ALA:N	2.49	0.40
3:ED:6:HIS:HE1	3:ED:8:GLN:HB3	1.86	0.40
3:ED:267:MET:HA	3:ED:268:PRO:HD3	1.73	0.40
3:ED:322:SER:OG	3:ED:324:LYS:NZ	2.52	0.40
2:EG:11:GLN:OE1	25:EG:501:GTP:PB	2.79	0.40
2:EG:311:LYS:HZ2	2:EG:342:GLN:HB3	1.86	0.40
3:EH:405:GLU:HA	3:EH:408:PHE:CD2	2.56	0.40
8:F2:305:ARG:HD3	8:F2:305:ARG:HA	1.94	0.40
8:F2:385:LYS:O	8:F2:388:PRO:HD2	2.21	0.40
3:FD:41:ASP:O	3:FD:45:GLU:HG2	2.21	0.40
3:FF:105:HIS:HA	3:FF:150:LEU:HD11	2.02	0.40
2:FG:195:LEU:HD22	2:FG:428:LEU:HD11	2.02	0.40
3:FH:2:ARG:HA	3:FH:129:CYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:G1:158:ASP:OD1	9:G1:159:MET:N	2.55	0.40
9:G1:191:GLN:HB2	9:G1:201:LEU:HD11	2.03	0.40
9:G1:280:GLU:HG2	9:G1:281:ARG:H	1.86	0.40
9:G2:33:TYR:CZ	3:LH:94:GLN:HG3	2.56	0.40
9:G2:96:VAL:HG22	9:G2:125:TYR:CD1	2.56	0.40
9:G2:121:ASN:HB2	9:G2:134:ILE:O	2.21	0.40
9:G2:395:GLN:CD	9:G2:405:PRO:HB3	2.42	0.40
9:G2:435:ASP:N	9:G2:435:ASP:OD1	2.53	0.40
9:G2:483:ILE:O	9:G2:484:TYR:HD1	2.04	0.40
10:G5:546:GLU:O	10:G5:549:ILE:HB	2.22	0.40
10:G5:566:PHE:HD2	10:G5:739:LEU:HD21	1.87	0.40
10:G5:662:CYS:SG	10:G5:667:LEU:HB3	2.61	0.40
10:G5:678:LEU:HD13	10:G5:678:LEU:HA	1.92	0.40
3:GD:378:PHE:CE1	3:GD:419:VAL:HA	2.57	0.40
2:GE:238:ILE:HD12	2:GE:238:ILE:HA	1.93	0.40
2:GE:347:CYS:HB2	2:GE:349:THR:O	2.21	0.40
3:GF:40:SER:O	3:GF:43:GLN:HG2	2.21	0.40
3:GF:102:ALA:HB1	3:GF:401:GLU:OE1	2.20	0.40
3:GF:337:ASN:HD22	3:GF:340:TYR:HD2	1.69	0.40
3:GH:2:ARG:NE	2:GI:96:LYS:O	2.54	0.40
3:GH:259:PRO:HA	2:GI:404:PHE:CE1	2.56	0.40
3:GH:266:PHE:CB	3:GH:368:ILE:HD11	2.51	0.40
11:H4:16:TYR:HA	11:H4:20:TYR:HE2	1.86	0.40
11:H4:250:ASN:OD1	11:H4:251:GLN:N	2.54	0.40
3:HD:11:GLN:HE21	25:HD:501:GTP:H3'	1.86	0.40
3:HD:46:ARG:HH22	2:HE:73:THR:HG23	1.85	0.40
2:HE:306:ASP:OD2	2:HE:308:ARG:HB2	2.21	0.40
3:HF:378:PHE:HB2	3:HF:415:MET:SD	2.61	0.40
2:HG:187:SER:OG	2:HG:188:ILE:N	2.54	0.40
3:HH:11:GLN:HG3	25:HH:501:GTP:O1A	2.20	0.40
3:HH:105:HIS:ND1	3:HH:149:THR:OG1	2.35	0.40
3:HH:255:VAL:HA	2:HI:407:TRP:CE2	2.56	0.40
2:HI:378:LEU:HA	2:HI:378:LEU:HD12	1.86	0.40
2:IG:90:GLU:HG2	2:IG:121:ARG:NH2	2.37	0.40
2:IG:117:LEU:O	2:IG:121:ARG:HG2	2.22	0.40
3:IH:151:LEU:HA	3:IH:151:LEU:HD13	1.88	0.40
2:II:82:THR:HA	2:II:84:ARG:HH11	1.86	0.40
2:II:285:GLN:HE22	2:II:287:SER:HB3	1.86	0.40
3:JD:394:PHE:HA	3:JD:397:TRP:HZ3	1.86	0.40
2:JE:89:PRO:HD3	2:KE:283:HIS:CE1	2.56	0.40
2:JE:215:ARG:HH12	2:JE:300:ASN:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:3:GLU:HG2	3:JF:130:LEU:HD23	2.03	0.40
3:JF:137:HIS:O	3:JF:168:SER:HA	2.21	0.40
3:JF:173:PRO:HD3	3:JF:203:ASP:OD1	2.22	0.40
3:JF:238:THR:HG21	3:JF:318:ARG:NH1	2.37	0.40
3:JF:324:LYS:HD2	2:JG:221:ARG:HA	2.03	0.40
2:JG:306:ASP:OD2	2:JG:309:HIS:ND1	2.54	0.40
14:K2:176:GLN:O	14:K2:179:VAL:HG22	2.20	0.40
14:K2:186:PRO:O	14:K2:187:LYS:HG2	2.20	0.40
14:K2:390:ARG:HE	14:K2:393:LEU:HB2	1.85	0.40
14:K2:420:ASP:O	14:K2:423:THR:OG1	2.28	0.40
14:K3:199:LEU:O	14:K3:202:GLU:HG3	2.22	0.40
14:K4:123:ALA:O	14:K4:126:VAL:HG12	2.21	0.40
14:K4:237:TYR:CE2	14:K4:293:CYS:HB3	2.56	0.40
3:KD:159:TYR:HB3	3:KD:162:ARG:HG2	2.02	0.40
3:KD:170:VAL:HG12	3:KD:171:PRO:HD2	2.03	0.40
2:KE:15:GLN:O	2:KE:18:ASN:HB3	2.21	0.40
2:KE:28:HIS:HE1	2:KE:243:ARG:HD2	1.87	0.40
2:KE:109:THR:O	2:KE:112:LYS:NZ	2.55	0.40
2:KI:34:GLY:HA2	2:KI:86:LEU:HD11	2.01	0.40
15:L2:225:ILE:HG13	15:L2:226:ARG:N	2.37	0.40
15:L3:80:ARG:CG	15:L3:81:CYS:H	2.20	0.40
3:LD:11:GLN:HA	3:LD:14:ASN:OD1	2.20	0.40
3:LD:192:LEU:O	3:LD:196:THR:HG22	2.22	0.40
2:LE:125:LEU:O	2:LE:128:LEU:HG	2.21	0.40
3:LF:172:SER:OG	3:LF:205:GLU:OE2	2.30	0.40
3:LF:257:MET:HB3	3:LF:266:PHE:CZ	2.56	0.40
3:LF:374:ILE:HG23	3:LF:377:LEU:HD13	2.03	0.40
2:LG:50:ASN:O	2:LG:64:ARG:NH1	2.52	0.40
2:LI:5:ILE:CD1	2:LI:64:ARG:HB3	2.51	0.40
2:LI:47:ASP:HB3	2:LI:49:PHE:CE2	2.57	0.40
3:MF:19:LYS:NZ	3:MF:227:HIS:HB2	2.36	0.40
2:MG:55:GLU:HG3	2:MG:60:LYS:C	2.42	0.40
3:MH:106:TYR:CD2	3:MH:403:MET:HE1	2.56	0.40
3:MH:345:ILE:HD12	3:MH:346:PRO:HD2	2.03	0.40
2:MI:381:THR:OG1	2:MI:382:THR:N	2.54	0.40
2:MI:396:ASP:N	2:MI:396:ASP:OD1	2.52	0.40
3:ND:192:LEU:O	3:ND:196:THR:HG22	2.22	0.40
3:ND:273:LEU:H	3:ND:292:GLN:NE2	2.19	0.40
2:NE:402:ARG:HG2	2:NE:402:ARG:O	2.21	0.40
3:NF:4:ILE:HB	3:NF:50:TYR:HE1	1.86	0.40
3:NF:251:ARG:O	3:NF:255:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:102:ASN:HD21	2:NG:411:GLU:HG2	1.86	0.40
2:NG:155:GLU:O	2:NG:158:SER:OG	2.32	0.40
2:NG:406:HIS:HA	2:NG:409:VAL:HG22	2.03	0.40
3:OF:101:TRP:HB3	3:OF:184:ASN:HD22	1.86	0.40
2:OG:70:LEU:HA	2:OG:95:GLY:HA3	2.02	0.40
3:OH:68:LEU:HB3	3:OH:95:SER:O	2.21	0.40
19:P1:524:ARG:NH2	19:P1:544:LEU:HA	2.36	0.40
19:P2:19:VAL:HG12	19:P2:57:GLN:CD	2.42	0.40
19:P2:60:LEU:HD13	19:P2:60:LEU:HA	1.94	0.40
19:P2:506:GLN:H	19:P2:521:GLY:HA2	1.85	0.40
2:PE:71:GLU:OE1	2:PE:145:THR:HG21	2.22	0.40
2:PG:113:GLU:OE1	2:PG:113:GLU:N	2.53	0.40
3:PH:12:CYS:HB3	25:PH:501:GTP:O4'	2.22	0.40
3:PH:334:GLN:O	3:PH:338:SER:OG	2.34	0.40
2:PI:208:ALA:CB	2:PI:302:MET:HA	2.51	0.40
2:QE:235:VAL:O	2:QE:238:ILE:HG12	2.22	0.40
3:QF:2:ARG:HB3	3:QF:131:GLN:OE1	2.22	0.40
3:QF:52:ASN:N	3:QF:60:VAL:O	2.55	0.40
3:QF:189:VAL:HA	3:QF:192:LEU:HB2	2.03	0.40
3:QF:324:LYS:HE2	2:QG:222:PRO:CD	2.46	0.40
3:QF:426:GLN:NE2	3:QF:427:ASP:OD2	2.54	0.40
2:QG:2:ARG:NH1	2:QG:241:SER:O	2.53	0.40
2:QG:118:VAL:O	2:QG:122:ILE:HG13	2.22	0.40
2:QG:144:GLY:N	25:QG:501:GTP:O2B	2.54	0.40
2:QG:399:TYR:OH	2:QG:418:PHE:HB2	2.21	0.40
3:QH:331:LEU:HD21	2:QI:177:VAL:HG22	2.03	0.40
2:QI:24:TYR:O	2:QI:28:HIS:ND1	2.55	0.40
2:QI:132:LEU:HD13	2:QI:164:LYS:HE2	2.02	0.40
2:QI:276:ILE:HD11	2:QI:280:LYS:HG3	2.02	0.40
2:QI:324:VAL:O	2:QI:328:VAL:HG23	2.22	0.40
2:RE:172:TYR:CD1	2:RE:173:PRO:HD2	2.56	0.40
2:RE:184:PRO:HB2	2:RE:395:PHE:CE1	2.57	0.40
3:RF:5:VAL:HG22	3:RF:62:ARG:HB3	2.02	0.40
3:RF:115:SER:O	3:RF:119:VAL:HG23	2.21	0.40
3:RF:325:GLU:HA	3:RF:328:GLU:HG3	2.03	0.40
2:RG:27:GLU:OE1	2:RG:27:GLU:N	2.52	0.40
3:RH:101:TRP:CE3	3:RH:187:LEU:HD13	2.56	0.40
3:RJ:117:LEU:HA	3:RJ:120:VAL:HG22	2.03	0.40
2:SE:235:VAL:HA	2:SE:238:ILE:HG12	2.04	0.40
3:SF:228:LEU:O	3:SF:232:THR:HG23	2.21	0.40
2:SG:98:ASP:OD1	2:SG:98:ASP:N	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:166:LYS:NZ	2:SG:199:ASP:OD1	2.54	0.40
2:SG:346:TRP:HH2	2:SG:435:VAL:HA	1.86	0.40
3:SH:12:CYS:CB	25:SH:501:GTP:H5'	2.51	0.40
3:SH:288:GLU:OE2	3:SH:289:LEU:HD12	2.21	0.40
2:SI:3:GLU:OE2	2:SI:130:THR:N	2.53	0.40
3:SJ:224:ASP:O	3:SJ:228:LEU:HG	2.21	0.40
3:SJ:249:ASP:O	3:SJ:253:LEU:HG	2.21	0.40
3:TF:2:ARG:HB3	3:TF:131:GLN:CD	2.41	0.40
3:TF:189:VAL:HG23	3:TF:415:MET:SD	2.62	0.40
3:TF:378:PHE:CD1	3:TF:419:VAL:HG22	2.56	0.40
2:TG:276:ILE:HD12	2:TG:276:ILE:HA	1.90	0.40
2:TG:396:ASP:HB3	2:TG:422:ARG:CZ	2.51	0.40
3:TH:40:SER:HB3	3:TH:42:LEU:CD2	2.52	0.40
3:TH:141:GLY:O	3:TH:145:SER:OG	2.19	0.40
3:TH:146:GLY:O	3:TH:150:LEU:HG	2.21	0.40
3:TH:323:MET:HB3	3:TH:323:MET:HE3	1.89	0.40
2:TI:17:GLY:O	2:TI:21:TRP:CD1	2.74	0.40
3:TJ:375:GLN:NE2	3:TJ:422:TYR:HB3	2.37	0.40
3:UD:6:HIS:ND1	3:UD:21:TRP:HZ2	2.19	0.40
3:UD:115:SER:O	3:UD:119:VAL:HG23	2.21	0.40
3:UD:139:LEU:HD21	3:UD:170:VAL:HG22	2.02	0.40
3:UD:390:ARG:HD2	3:UD:390:ARG:HA	1.58	0.40
2:UE:70:LEU:HD13	2:UE:145:THR:HB	2.01	0.40
2:UG:21:TRP:CZ3	2:UG:52:PHE:HB3	2.56	0.40
2:UG:272:TYR:CE1	2:UG:374:ALA:HB1	2.56	0.40
3:VD:12:CYS:HA	3:VD:15:GLN:OE1	2.21	0.40
3:VD:325:GLU:HB3	2:VE:221:ARG:HH12	1.85	0.40
2:VE:127:ASP:OD1	2:VE:127:ASP:N	2.53	0.40
2:VE:260:VAL:O	3:VF:397:TRP:HH2	2.04	0.40
3:VF:2:ARG:HB2	3:VF:131:GLN:NE2	2.36	0.40
3:VF:40:SER:HB2	3:VF:43:GLN:CD	2.41	0.40
3:VF:141:GLY:HA3	25:VF:501:GTP:H5''	2.03	0.40
2:VG:231:ILE:O	2:VG:234:ILE:HB	2.21	0.40
3:VH:60:VAL:HA	3:VH:61:PRO:HD3	1.83	0.40
3:VH:114:ASP:OD1	3:VH:115:SER:N	2.47	0.40
3:VH:253:LEU:O	3:VH:256:ASN:HB2	2.20	0.40
3:VH:317:PHE:CD2	3:VH:321:MET:HG2	2.56	0.40
2:WE:11:GLN:CG	25:WE:501:GTP:PG	3.08	0.40
2:WE:189:LEU:O	2:WE:192:HIS:ND1	2.54	0.40
2:WE:211:ASP:CB	2:WE:215:ARG:HH21	2.27	0.40
3:WF:199:THR:HB	3:WF:264:HIS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:246:LEU:HB3	3:WF:353:VAL:O	2.21	0.40
3:WF:389:PHE:O	3:WF:392:LYS:HD3	2.21	0.40
3:WF:405:GLU:OE1	3:WF:405:GLU:N	2.51	0.40
2:WG:19:ALA:HA	2:WG:22:GLU:CD	2.42	0.40
2:WG:35:GLN:HG3	2:WG:42:ILE:HD11	2.03	0.40
2:WG:287:SER:O	2:WG:291:ILE:HG23	2.21	0.40
3:WH:116:VAL:O	3:WH:120:VAL:HG13	2.21	0.40
3:WH:155:ILE:HA	3:WH:158:GLU:HB2	2.03	0.40
2:WI:88:HIS:NE2	2:WI:90:GLU:OE2	2.49	0.40
2:WI:187:SER:O	2:WI:191:THR:HG23	2.20	0.40
2:WI:397:LEU:O	2:WI:401:LYS:HG2	2.21	0.40
22:XD:59:ILE:HG22	22:XD:156:ILE:HB	2.03	0.40
22:XE:29:VAL:HA	22:XE:57:THR:HG23	2.04	0.40
22:XE:94:LEU:HD12	22:XE:94:LEU:HA	1.81	0.40
23:XK:89:TYR:O	23:XK:93:LEU:HD22	2.21	0.40
24:YK:144:VAL:O	24:YK:148:MET:HG2	2.22	0.40
24:YL:41:ARG:HH12	24:YL:44:SER:H	1.69	0.40
24:YL:41:ARG:NH2	24:YL:44:SER:OG	2.54	0.40
24:YM:8:LEU:HA	24:YM:11:ILE:HD12	2.02	0.40
24:YM:111:SER:C	24:YM:136:GLY:H	2.23	0.40
1:A2:161:ILE:HG22	1:A2:165:ARG:NH1	2.37	0.40
3:AF:392:LYS:HB3	3:AF:395:LEU:HD13	2.03	0.40
2:AG:187:SER:O	2:AG:191:THR:HG23	2.20	0.40
2:AG:204:VAL:HG23	2:AG:302:MET:HG3	2.03	0.40
2:AG:402:ARG:NH2	23:XJ:233:PRO:HG2	2.36	0.40
3:AH:43:GLN:O	3:AH:47:ILE:HG23	2.22	0.40
3:AH:97:ALA:C	3:AH:99:ASN:H	2.24	0.40
3:AH:412:GLU:HA	3:AH:415:MET:HG3	2.04	0.40
2:AI:175:PRO:HG2	2:AI:304:LYS:HD3	2.02	0.40
2:AI:176:GLN:NE2	2:AI:177:VAL:HG23	2.35	0.40
2:AI:254:GLU:OE1	2:AI:254:GLU:N	2.54	0.40
2:AI:434:GLU:HG3	22:XE:100:ARG:NH2	2.36	0.40
4:B3:104:GLN:OE1	6:D3:161:ARG:HB3	2.21	0.40
4:B7:118:THR:OG1	6:D8:413:GLU:OE2	2.33	0.40
4:B8:300:LEU:HD22	4:B8:356:LEU:HG	2.04	0.40
4:B8:321:ARG:HB3	4:B8:324:ARG:NH1	2.36	0.40
2:BE:320:ARG:HG2	2:BE:358:GLN:O	2.22	0.40
2:BG:313:MET:N	2:BG:313:MET:SD	2.94	0.40
2:BG:388:TRP:HD1	2:BG:425:LEU:HD11	1.86	0.40
3:BH:5:VAL:HB	3:BH:133:PHE:CE1	2.57	0.40
3:BH:28:HIS:CE1	3:BH:43:GLN:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:311:LYS:N	2:BI:382:THR:OG1	2.54	0.40
5:C3:429:GLU:HA	5:C3:432:GLN:OE1	2.21	0.40
5:C7:184:GLY:O	5:C7:188:THR:OG1	2.29	0.40
5:C8:219:LEU:O	5:C8:222:GLU:HB2	2.21	0.40
5:C8:309:LEU:HD21	7:E3:88:ARG:NE	2.36	0.40
3:CF:21:TRP:HA	3:CF:24:ILE:HD12	2.04	0.40
3:CF:174:LYS:HG3	3:CF:175:VAL:HG12	2.03	0.40
3:CF:381:ILE:HA	3:CF:384:GLN:HG2	2.04	0.40
2:CG:99:ALA:HA	2:CG:105:ARG:HG2	2.04	0.40
2:CG:405:VAL:O	2:CG:409:VAL:HG22	2.21	0.40
6:D8:356:ARG:HG2	6:D8:356:ARG:H	1.74	0.40
3:DD:246:LEU:HB3	3:DD:353:VAL:O	2.22	0.40
2:DE:89:PRO:HD2	2:EE:284:GLU:OE2	2.21	0.40
2:DE:112:LYS:O	2:DE:115:VAL:HG12	2.20	0.40
2:DE:189:LEU:HA	2:DE:192:HIS:ND1	2.35	0.40
3:DF:12:CYS:HA	25:DF:501:GTP:C2	2.57	0.40
3:DF:100:ASN:ND2	3:DF:103:LYS:HG2	2.36	0.40
3:DF:379:LYS:O	3:DF:383:GLU:OE1	2.40	0.40
2:DG:42:ILE:HG21	2:DG:59:GLY:HA2	2.04	0.40
3:DH:181:GLU:HA	3:DH:184:ASN:OD1	2.21	0.40
3:DH:249:ASP:HB3	3:DH:252:LYS:HB2	2.03	0.40
7:E2:95:HIS:O	7:E2:96:GLY:C	2.60	0.40
3:ED:284:LEU:CD2	3:ED:362:LYS:HB2	2.51	0.40
2:EE:89:PRO:HD2	2:FE:284:GLU:OE2	2.20	0.40
2:EE:174:ALA:HB1	2:EE:207:GLU:OE2	2.21	0.40
3:EF:5:VAL:HG21	3:EF:123:GLU:OE1	2.21	0.40
3:EF:40:SER:O	3:EF:43:GLN:HG2	2.21	0.40
3:EF:41:ASP:OD1	3:EF:42:LEU:N	2.55	0.40
3:EH:330:MET:SD	3:EH:349:VAL:HG21	2.61	0.40
8:F3:251:GLU:O	8:F3:254:ILE:HG22	2.21	0.40
8:F6:250:LEU:HD23	8:F6:250:LEU:HA	1.89	0.40
8:F6:296:TRP:HH2	8:F7:408:CYS:HA	1.85	0.40
8:F7:201:ARG:CZ	8:F7:207:VAL:H	2.34	0.40
8:F7:312:ALA:HA	8:F7:315:ILE:HG12	2.02	0.40
3:FD:69:GLU:HB3	3:FD:72:THR:OG1	2.22	0.40
3:FD:355:ASP:O	3:FD:356:ILE:HD13	2.21	0.40
2:FE:196:GLU:HG2	2:FE:197:HIS:ND1	2.37	0.40
2:FE:263:PRO:O	2:FE:264:ARG:HD3	2.22	0.40
2:FE:408:TYR:HD2	2:FE:418:PHE:HZ	1.69	0.40
3:FF:12:CYS:HB3	25:FF:501:GTP:H4'	2.03	0.40
3:FF:41:ASP:OD1	3:FF:42:LEU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:405:GLU:HA	3:FF:408:PHE:CD1	2.56	0.40
3:FH:330:MET:SD	3:FH:349:VAL:HG11	2.61	0.40
9:G2:158:ASP:OD1	9:G2:158:ASP:N	2.53	0.40
10:G5:487:LYS:HE2	10:G5:501:TYR:HE1	1.86	0.40
2:GE:287:SER:OG	2:GE:290:GLU:OE1	2.33	0.40
3:GF:8:GLN:OE1	3:GF:65:LEU:HD12	2.22	0.40
3:GF:139:LEU:HD11	3:GF:171:PRO:HD3	2.03	0.40
3:GF:407:GLU:HA	3:GF:410:GLU:OE2	2.21	0.40
2:GG:276:ILE:HD12	2:GG:276:ILE:HA	1.95	0.40
3:GH:324:LYS:HZ3	2:GI:221:ARG:HA	1.85	0.40
3:GH:379:LYS:O	3:GH:383:GLU:OE1	2.40	0.40
11:H3:283:PRO:HA	11:H3:300:PHE:CE2	2.57	0.40
11:H4:310:LYS:HD2	11:H4:313:ASP:HB2	2.03	0.40
3:HD:337:ASN:HD22	3:HD:340:TYR:HD2	1.68	0.40
2:HG:8:HIS:ND1	2:HG:67:PHE:HE1	2.19	0.40
2:HG:47:ASP:O	2:HG:50:ASN:N	2.37	0.40
3:HH:207:LEU:HA	3:HH:210:ILE:HG12	2.03	0.40
3:HH:273:LEU:O	3:HH:282:ARG:NH1	2.55	0.40
3:HH:344:TRP:CZ3	2:HI:401:LYS:HD2	2.56	0.40
2:HI:425:LEU:O	2:HI:429:GLU:OE1	2.38	0.40
12:I2:48:TYR:O	12:I2:51:ASP:N	2.55	0.40
3:IF:176:SER:O	3:IF:178:THR:N	2.54	0.40
3:IF:313:VAL:CG2	3:IF:349:VAL:HG12	2.52	0.40
2:IG:206:ASN:HA	2:IG:209:ILE:HD12	2.03	0.40
2:IG:316:CYS:HB3	2:IG:378:LEU:HB3	2.03	0.40
2:IG:327:ASP:OD1	2:IG:328:VAL:N	2.53	0.40
3:IH:378:PHE:HE1	3:IH:419:VAL:HG13	1.85	0.40
2:II:75:VAL:HA	2:II:78:VAL:HG12	2.03	0.40
3:JF:175:VAL:HG13	3:JF:175:VAL:O	2.20	0.40
3:JF:376:GLU:OE1	3:JF:376:GLU:N	2.38	0.40
2:JG:97:GLU:HB2	2:JG:110:ILE:HG21	2.03	0.40
2:JG:166:LYS:O	2:JG:199:ASP:HB2	2.22	0.40
14:K3:252:LEU:HA	14:K3:252:LEU:HD12	1.75	0.40
14:K3:261:ARG:HE	14:K3:276:GLN:HA	1.85	0.40
3:KD:30:ILE:HG22	3:KD:31:ASP:O	2.21	0.40
3:KD:251:ARG:O	3:KD:255:VAL:HG22	2.22	0.40
2:KE:133:GLN:HB3	2:KE:252:LEU:HD21	2.03	0.40
3:KF:175:VAL:HG22	3:KF:177:ASP:H	1.87	0.40
2:KG:42:ILE:HG12	2:KG:55:GLU:OE2	2.22	0.40
15:L3:103:LYS:HD2	15:L3:103:LYS:HA	1.81	0.40
15:L3:182:LYS:HB2	15:L3:182:LYS:HE2	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L3:212:GLN:O	15:L3:214:LEU:HG	2.20	0.40
2:LE:144:GLY:N	25:LE:501:GTP:O2B	2.54	0.40
3:LF:245:GLN:OE1	2:LG:15:GLN:CD	2.59	0.40
3:LF:284:LEU:HG	3:LF:363:MET:HB2	2.02	0.40
2:LG:27:GLU:HG2	2:LG:28:HIS:N	2.36	0.40
2:LG:264:ARG:HE	18:O2:84:ARG:HH11	1.68	0.40
3:LH:154:LYS:HE2	3:LH:154:LYS:HB2	1.84	0.40
3:LH:255:VAL:HG12	2:LI:407:TRP:CD2	2.56	0.40
16:M2:48:LYS:CE	16:M2:92:TYR:HB3	2.51	0.40
16:M3:55:ARG:HD2	16:M3:55:ARG:HA	1.86	0.40
2:ME:99:ALA:HB3	2:ME:145:THR:HG22	2.04	0.40
2:MG:251:ASP:CG	2:MG:252:LEU:N	2.75	0.40
2:MG:326:LYS:HA	2:MG:329:ASN:HD21	1.86	0.40
17:N2:95:HIS:HB3	17:N2:98:THR:OG1	2.21	0.40
17:N3:150:THR:HG23	17:N3:150:THR:O	2.21	0.40
3:ND:303:CYS:O	3:ND:305:PRO:HD3	2.20	0.40
2:NE:90:GLU:HG2	2:NE:121:ARG:CZ	2.51	0.40
2:NE:219:ILE:O	2:NE:222:PRO:HD3	2.21	0.40
2:NE:392:ASP:OD1	2:NE:393:HIS:N	2.55	0.40
2:NG:346:TRP:HE1	3:NH:391:ARG:NH1	2.20	0.40
3:NH:69:GLU:OE1	3:NH:72:THR:HG23	2.22	0.40
3:NH:246:LEU:HD13	3:NH:354:CYS:HB2	2.02	0.40
2:NI:107:HIS:CD2	2:NI:152:LEU:HD13	2.55	0.40
2:NI:138:PHE:HE1	2:NI:169:PHE:CD2	2.29	0.40
2:NI:155:GLU:O	2:NI:159:VAL:HG13	2.21	0.40
2:NI:370:LYS:O	2:NI:370:LYS:HG3	2.20	0.40
3:OD:68:LEU:HD12	3:OD:97:ALA:HB2	2.02	0.40
2:OE:9:VAL:HG22	2:OE:146:GLY:HA2	2.02	0.40
2:OE:75:VAL:HG11	2:OE:94:THR:HB	2.02	0.40
3:OF:377:LEU:O	3:OF:380:ARG:HG2	2.21	0.40
3:OH:269:GLY:HA3	3:OH:367:PHE:HD2	1.86	0.40
3:OH:317:PHE:HE1	3:OH:351:THR:HB	1.87	0.40
2:OI:214:ARG:O	2:OI:218:ASP:HA	2.21	0.40
2:OI:427:ALA:O	2:OI:430:LYS:HG3	2.22	0.40
19:P1:221:TYR:HA	19:P1:230:LEU:O	2.21	0.40
19:P1:346:GLU:HG2	19:P1:360:HIS:CD2	2.57	0.40
19:P2:22:PHE:HD1	19:P2:41:TYR:CD1	2.40	0.40
2:PE:55:GLU:HA	2:PE:60:LYS:O	2.21	0.40
2:PE:107:HIS:HB3	2:PE:108:TYR:CD1	2.57	0.40
2:PE:274:PRO:HB2	2:PE:371:VAL:HG21	2.03	0.40
25:PE:501:GTP:N3	25:PE:501:GTP:O4'	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:69:ASP:N	2:PG:69:ASP:OD1	2.54	0.40
2:PG:326:LYS:HG3	2:PG:327:ASP:H	1.86	0.40
3:PH:6:HIS:HD1	3:PH:134:GLN:HG2	1.85	0.40
2:PI:2:ARG:CZ	2:PI:242:LEU:HA	2.51	0.40
20:Q1:1491:PHE:O	20:Q1:1495:GLU:HG2	2.21	0.40
20:Q2:1341:ARG:HE	20:Q2:1341:ARG:HB2	1.70	0.40
2:QE:428:LEU:HG	2:QE:432:TYR:CE2	2.57	0.40
3:QF:378:PHE:CD1	3:QF:419:VAL:HG22	2.56	0.40
2:QG:102:ASN:HB3	2:QG:105:ARG:HB3	2.03	0.40
2:QG:125:LEU:O	2:QG:128:LEU:HG	2.22	0.40
3:QH:1:MET:O	3:QH:129:CYS:HB2	2.21	0.40
3:QH:143:THR:HG22	3:QH:147:MET:HE1	2.03	0.40
3:QH:171:PRO:HG3	3:QH:181:GLU:OE2	2.22	0.40
3:QH:222:TYR:CE2	25:QH:501:GTP:N1	2.90	0.40
2:QI:135:PHE:O	2:QI:167:LEU:HB2	2.20	0.40
2:QI:276:ILE:HD12	2:QI:277:SER:H	1.86	0.40
2:QI:283:HIS:HB3	24:YM:131:ARG:NH2	2.37	0.40
2:QI:286:LEU:CD1	2:QI:373:ARG:H	2.34	0.40
2:RE:189:LEU:HA	2:RE:192:HIS:ND1	2.35	0.40
2:RE:331:ALA:O	2:RE:334:THR:OG1	2.26	0.40
2:RG:189:LEU:HA	2:RG:192:HIS:ND1	2.37	0.40
2:RG:234:ILE:CD1	2:RG:272:TYR:HB2	2.41	0.40
2:RG:349:THR:HG21	3:RH:176:SER:OG	2.21	0.40
2:RG:385:ALA:HB1	2:RG:429:GLU:OE1	2.22	0.40
2:RI:2:ARG:NH1	2:RI:241:SER:O	2.54	0.40
2:RI:332:ILE:O	2:RI:336:LYS:HG3	2.21	0.40
2:SE:12:ALA:HB1	25:SE:501:GTP:N3	2.37	0.40
3:SF:249:ASP:O	3:SF:253:LEU:HG	2.21	0.40
2:SG:13:GLY:O	2:SG:16:ILE:HG12	2.21	0.40
2:SG:137:ILE:CD1	2:SG:166:LYS:HB2	2.50	0.40
2:SG:246:GLY:HA3	2:SG:355:ILE:O	2.22	0.40
2:SG:389:ALA:HA	2:SG:392:ASP:OD2	2.21	0.40
3:SH:106:TYR:HB2	3:SH:401:GLU:OE2	2.21	0.40
2:SI:6:SER:O	2:SI:65:ALA:HA	2.21	0.40
3:SJ:239:CYS:HB3	3:SJ:248:ALA:HA	2.03	0.40
3:SJ:317:PHE:HB3	3:SJ:321:MET:HE1	2.03	0.40
3:SJ:385:PHE:O	3:SJ:389:PHE:HD2	2.05	0.40
3:TF:406:MET:HA	3:TF:409:THR:OG1	2.22	0.40
2:TG:310:GLY:HA3	2:TG:383:ALA:HB2	2.02	0.40
2:TI:397:LEU:O	2:TI:401:LYS:HG2	2.21	0.40
3:TJ:378:PHE:HA	3:TJ:381:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:275:SER:N	3:UD:278:SER:OG	2.54	0.40
2:UE:206:ASN:OD1	2:UE:207:GLU:HG3	2.22	0.40
3:UF:289:LEU:HD21	3:UF:363:MET:HB3	2.02	0.40
3:UF:330:MET:CG	3:UF:349:VAL:HG11	2.52	0.40
2:UG:53:PHE:CE2	2:UG:63:PRO:HG3	2.57	0.40
2:UG:216:ASN:HB2	2:UG:276:ILE:HA	2.03	0.40
2:UG:310:GLY:HA3	2:UG:383:ALA:HB2	2.03	0.40
3:UH:19:LYS:NZ	3:UH:227:HIS:HB2	2.35	0.40
3:UH:174:LYS:HG2	3:UH:205:GLU:OE2	2.21	0.40
3:UH:379:LYS:O	3:UH:383:GLU:OE1	2.39	0.40
3:VD:2:ARG:NH1	2:VE:96:LYS:O	2.54	0.40
3:VD:30:ILE:HG13	3:VD:36:TYR:CD1	2.56	0.40
3:VD:284:LEU:O	3:VD:363:MET:HE2	2.21	0.40
3:VF:155:ILE:HA	3:VF:158:GLU:HB2	2.03	0.40
2:VG:16:ILE:HG13	2:VG:17:GLY:N	2.36	0.40
2:VG:280:LYS:O	2:VG:284:GLU:HB3	2.21	0.40
2:VG:306:ASP:OD2	2:VG:309:HIS:N	2.52	0.40
3:VH:225:LEU:O	3:VH:229:VAL:HG22	2.21	0.40
2:WE:70:LEU:HD13	2:WE:95:GLY:HA3	2.03	0.40
3:WF:47:ILE:HD12	3:WF:47:ILE:HA	1.94	0.40
3:WF:86:ARG:HE	3:WF:87:PRO:HD2	1.86	0.40
2:WG:117:LEU:O	2:WG:121:ARG:HG2	2.20	0.40
2:WG:388:TRP:HD1	2:WG:425:LEU:HD11	1.86	0.40
3:WH:41:ASP:O	3:WH:45:GLU:HG3	2.20	0.40
3:WH:206:ALA:O	3:WH:210:ILE:HG12	2.21	0.40
2:WI:139:HIS:O	2:WI:170:ALA:HA	2.22	0.40
2:WI:189:LEU:O	2:WI:192:HIS:ND1	2.54	0.40
22:XE:178:PRO:HB2	22:XE:180:GLU:OE1	2.21	0.40
23:XL:139:ASN:O	23:XL:143:LEU:HG	2.21	0.40
23:XL:165:MET:SD	23:XL:168:GLU:HB2	2.61	0.40
24:YI:5:LYS:HA	24:YI:8:LEU:HD12	2.04	0.40
24:YL:75:GLU:O	24:YL:79:LEU:HD13	2.21	0.40
1:A3:60:ASN:O	1:A3:64:GLU:OE1	2.40	0.40
2:AE:149:PHE:CZ	2:AE:153:LEU:HD11	2.57	0.40
3:AF:46:ARG:HD3	3:AF:46:ARG:HA	1.86	0.40
3:AF:184:ASN:ND2	3:AF:398:TYR:OH	2.55	0.40
2:AI:377:MET:SD	2:AI:379:SER:HB3	2.61	0.40
2:AI:406:HIS:HA	2:AI:409:VAL:HG22	2.04	0.40
4:B3:40:GLN:O	4:B3:44:ILE:HG13	2.22	0.40
4:B3:154:LYS:HB3	4:B3:243:ILE:HD11	2.03	0.40
4:B8:300:LEU:HD23	4:B8:300:LEU:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:215:ARG:HH12	2:BE:299:ALA:HB1	1.86	0.40
2:BG:397:LEU:O	2:BG:401:LYS:HG2	2.22	0.40
5:C2:275:ARG:NH1	5:C2:277:THR:OG1	2.55	0.40
5:C3:120:LEU:O	5:C3:124:THR:HG23	2.21	0.40
5:C7:103:ASN:O	5:C7:107:PHE:HD2	2.05	0.40
3:CF:406:MET:O	3:CF:409:THR:N	2.54	0.40
2:CI:208:ALA:N	2:CI:304:LYS:NZ	2.69	0.40
2:CI:224:TYR:O	2:CI:225:THR:C	2.59	0.40
3:CJ:390:ARG:C	3:CJ:391:ARG:HD3	2.42	0.40
6:D4:427:ARG:HH21	6:D4:431:MET:HG3	1.87	0.40
6:D7:376:ARG:NH1	6:D8:99:SER:HA	2.36	0.40
6:D8:135:LYS:NZ	6:D8:194:ILE:HG13	2.36	0.40
2:DE:403:ALA:HB1	2:DE:404:PHE:HD1	1.87	0.40
3:DF:143:THR:HG22	3:DF:147:MET:CE	2.52	0.40
2:DG:6:SER:HB3	2:DG:65:ALA:HB2	2.04	0.40
2:DG:39:ASP:OD1	2:DG:39:ASP:N	2.53	0.40
3:DH:7:LEU:HD13	3:DH:64:VAL:HB	2.03	0.40
3:DH:60:VAL:HG23	3:DH:86:ARG:HH11	1.86	0.40
3:DH:270:PHE:HB2	3:DH:300:MET:HE1	2.04	0.40
3:DH:299:MET:SD	3:DH:305:PRO:HD3	2.62	0.40
7:E2:100:SER:O	7:E2:103:ARG:NH2	2.54	0.40
2:EE:184:PRO:O	2:EE:188:ILE:HG23	2.21	0.40
2:EE:255:PHE:HA	2:EE:259:LEU:HD23	2.03	0.40
3:EF:102:ALA:HB1	3:EF:401:GLU:OE1	2.21	0.40
2:EG:20:CYS:HB3	2:EG:24:TYR:CZ	2.57	0.40
2:EG:231:ILE:HD12	2:EG:231:ILE:HA	1.98	0.40
2:EG:406:HIS:NE2	2:EG:407:TRP:CD1	2.89	0.40
8:F2:174:LYS:HG3	8:F2:236:ILE:HD11	2.03	0.40
3:FD:73:MET:HA	3:FD:76:VAL:HG22	2.04	0.40
3:FD:259:PRO:HB2	3:FD:260:PHE:CD2	2.57	0.40
2:FE:260:VAL:HA	2:FE:261:PRO:HD3	1.90	0.40
2:FG:425:LEU:O	2:FG:429:GLU:OE1	2.39	0.40
9:G2:179:LYS:HA	9:G2:179:LYS:HD2	1.82	0.40
9:G2:353:GLN:HB2	9:G2:356:LYS:NZ	2.36	0.40
10:G5:198:LYS:HA	10:G5:201:ARG:CD	2.51	0.40
10:G5:328:VAL:HG13	10:G5:330:GLN:NE2	2.35	0.40
10:G5:340:ILE:HG13	10:G5:340:ILE:O	2.22	0.40
10:G5:692:ILE:O	10:G5:696:VAL:HG22	2.21	0.40
3:GD:227:HIS:ND1	3:GD:228:LEU:HD23	2.36	0.40
2:GE:175:PRO:CG	2:GE:304:LYS:HD3	2.52	0.40
2:GE:184:PRO:HB2	2:GE:395:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:336:LYS:HB2	2:GE:336:LYS:HE2	1.88	0.40
2:GE:408:TYR:O	2:GE:411:GLU:HG3	2.21	0.40
3:GF:130:LEU:HD12	3:GF:132:GLY:O	2.21	0.40
2:GG:6:SER:HB3	2:GG:65:ALA:HB2	2.04	0.40
2:GG:173:PRO:HG3	2:GG:183:GLU:OE2	2.20	0.40
2:GI:175:PRO:O	2:GI:390:ARG:HD3	2.22	0.40
3:HD:151:LEU:O	3:HD:155:ILE:HG12	2.22	0.40
3:HD:325:GLU:HG2	3:HD:326:VAL:N	2.36	0.40
3:HH:252:LYS:HE3	2:HI:100:ALA:HA	2.03	0.40
2:HI:141:PHE:HD2	2:HI:172:TYR:HA	1.85	0.40
12:I2:43:ASN:O	12:I2:46:PHE:HB2	2.22	0.40
2:IE:264:ARG:HB2	2:IE:265:ILE:H	1.69	0.40
3:IF:101:TRP:CZ2	3:IF:187:LEU:HB3	2.56	0.40
2:IG:133:GLN:H	2:IG:133:GLN:CD	2.25	0.40
2:IG:202:PHE:CD1	2:IG:268:PRO:HD2	2.56	0.40
2:IG:268:PRO:HB2	2:IG:378:LEU:HD11	2.02	0.40
3:IH:409:THR:O	3:IH:412:GLU:HG3	2.22	0.40
3:JD:86:ARG:HA	3:JD:86:ARG:NE	2.37	0.40
3:JD:324:LYS:HE2	2:JE:210:TYR:HB3	2.04	0.40
2:JE:279:GLU:O	2:JE:283:HIS:NE2	2.54	0.40
3:JF:418:LEU:HA	3:JF:418:LEU:HD23	1.83	0.40
2:JG:189:LEU:HA	2:JG:192:HIS:HE1	1.84	0.40
3:JH:330:MET:HG3	3:JH:349:VAL:HG11	2.04	0.40
3:JH:374:ILE:O	3:JH:374:ILE:HG22	2.21	0.40
14:K2:338:GLN:CG	14:K3:15:ARG:HH22	2.34	0.40
3:KD:54:ALA:HA	3:LD:283:ALA:HB2	2.04	0.40
2:KE:16:ILE:HD11	2:KE:138:PHE:HB3	2.04	0.40
2:KE:161:TYR:HB3	2:KE:164:LYS:NZ	2.37	0.40
2:KE:192:HIS:HA	2:KE:195:LEU:HD23	2.02	0.40
2:KE:320:ARG:NH2	2:KE:360:PRO:HA	2.36	0.40
3:KF:270:PHE:O	3:KF:298:ASN:ND2	2.53	0.40
3:KH:404:ASP:OD1	3:KH:404:ASP:N	2.55	0.40
15:L3:122:LYS:O	15:L3:124:ILE:HG12	2.21	0.40
15:L3:155:PRO:O	15:L3:158:ILE:HG22	2.22	0.40
2:LE:6:SER:O	2:LE:65:ALA:HA	2.21	0.40
2:LE:395:PHE:HD2	2:LE:422:ARG:NH2	2.20	0.40
3:LF:325:GLU:HB3	2:LG:221:ARG:NH1	2.35	0.40
3:LF:377:LEU:HD12	3:LF:377:LEU:N	2.36	0.40
2:LG:102:ASN:HD21	2:LG:411:GLU:HG2	1.86	0.40
3:LH:130:LEU:O	3:LH:162:ARG:HD2	2.21	0.40
3:LH:350:LYS:HZ1	2:LI:181:VAL:N	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:22:GLU:O	2:ME:26:LEU:HD23	2.21	0.40
2:ME:95:GLY:C	2:ME:96:LYS:HD3	2.41	0.40
3:MF:95:SER:OG	3:MF:96:GLY:N	2.55	0.40
3:MF:130:LEU:HB2	3:MF:162:ARG:HH11	1.86	0.40
3:MF:148:GLY:O	3:MF:152:ILE:HG12	2.21	0.40
2:MG:390:ARG:HA	2:MG:393:HIS:ND1	2.36	0.40
3:MH:423:GLN:HG2	3:MH:426:GLN:HE21	1.86	0.40
2:MI:2:ARG:NH2	2:MI:241:SER:OG	2.55	0.40
2:MI:311:LYS:HG2	2:MI:342:GLN:CB	2.51	0.40
17:N3:145:ILE:HD12	2:WI:221:ARG:O	2.22	0.40
3:ND:41:ASP:O	3:ND:45:GLU:OE1	2.39	0.40
2:NE:201:ALA:O	2:NE:267:PHE:HA	2.21	0.40
3:NF:391:ARG:O	3:NF:392:LYS:HG3	2.22	0.40
2:NG:88:HIS:HB3	2:NG:91:GLN:HG2	2.03	0.40
3:NH:348:ASN:OD1	3:NH:348:ASN:N	2.54	0.40
2:NI:189:LEU:HD11	2:NI:418:PHE:HE1	1.86	0.40
2:NI:311:LYS:HZ2	2:NI:342:GLN:HB3	1.85	0.40
2:NI:317:MET:HB3	2:NI:319:TYR:CE1	2.57	0.40
18:O1:75:PRO:HA	18:O1:95:TRP:CZ2	2.56	0.40
3:OD:132:GLY:HA2	3:OD:162:ARG:HB3	2.03	0.40
3:OD:217:LEU:HD11	3:OD:220:PRO:HB3	2.03	0.40
2:OE:153:LEU:HD12	2:OE:154:MET:N	2.37	0.40
2:OE:172:TYR:CG	2:OE:173:PRO:HD2	2.57	0.40
2:OE:180:ALA:HB1	2:OE:182:VAL:HG12	2.03	0.40
2:OE:252:LEU:HD12	2:OE:253:THR:N	2.36	0.40
3:OF:31:ASP:OD1	3:OF:31:ASP:N	2.54	0.40
3:OF:119:VAL:O	3:OF:122:LYS:HG2	2.21	0.40
2:OI:1:MET:N	2:OI:1:MET:SD	2.83	0.40
19:P1:336:GLN:HA	19:P1:591:MET:SD	2.62	0.40
19:P1:340:PHE:HD1	19:P1:594:ARG:HB3	1.86	0.40
19:P2:124:LEU:O	19:P2:142:ILE:HG22	2.21	0.40
19:P2:576:GLU:HB2	19:P2:578:GLU:HG3	2.04	0.40
2:PE:54:SER:N	2:PE:62:VAL:O	2.54	0.40
3:PF:6:HIS:HB3	3:PF:21:TRP:CZ2	2.57	0.40
3:PF:6:HIS:HE1	3:PF:8:GLN:HB2	1.86	0.40
3:PF:246:LEU:HD12	3:PF:352:ALA:HB1	2.03	0.40
3:PF:389:PHE:HE1	3:PF:408:PHE:HD2	1.69	0.40
2:PG:167:LEU:HD13	2:PG:200:CYS:HB2	2.02	0.40
2:PG:319:TYR:HB2	2:PG:355:ILE:CD1	2.51	0.40
3:PH:294:PHE:HZ	3:PH:310:TYR:CZ	2.40	0.40
2:PI:216:ASN:ND2	2:PI:275:VAL:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QE:170:ALA:O	2:QE:203:MET:HA	2.22	0.40
2:QE:220:GLU:HG2	2:QE:221:ARG:HG2	2.03	0.40
2:QE:221:ARG:N	2:QE:222:PRO:HD3	2.37	0.40
2:QE:224:TYR:CE2	25:QE:501:GTP:C6	3.09	0.40
2:QE:311:LYS:HZ2	2:QE:342:GLN:HB3	1.87	0.40
2:QG:21:TRP:CD1	2:QG:67:PHE:HZ	2.40	0.40
2:QG:55:GLU:HA	2:QG:60:LYS:O	2.21	0.40
3:QH:6:HIS:CG	3:QH:7:LEU:N	2.90	0.40
3:QH:210:ILE:HD13	3:QH:210:ILE:HA	1.86	0.40
2:QI:139:HIS:CE1	2:QI:170:ALA:HB2	2.56	0.40
21:R2:262:LYS:HA	21:R2:265:LYS:HZ2	1.86	0.40
2:RE:88:HIS:CE1	2:RE:90:GLU:HG2	2.52	0.40
2:RE:326:LYS:HD2	3:RF:208:TYR:CE2	2.57	0.40
3:RF:17:GLY:O	3:RF:21:TRP:HD1	2.04	0.40
3:RF:167:PHE:CE1	3:RF:202:ILE:HD11	2.56	0.40
3:RF:385:PHE:CD1	3:RF:388:MET:HE2	2.48	0.40
2:RG:81:GLY:O	2:RG:84:ARG:NH1	2.55	0.40
2:RG:236:SER:O	2:RG:243:ARG:NH2	2.54	0.40
2:RI:12:ALA:HB1	25:RI:501:GTP:C2	2.57	0.40
2:RI:306:ASP:HB3	2:RI:309:HIS:ND1	2.36	0.40
2:RI:419:SER:O	2:RI:423:GLU:OE1	2.40	0.40
3:RJ:130:LEU:HB2	3:RJ:162:ARG:NH1	2.37	0.40
3:RJ:174:LYS:N	3:RJ:174:LYS:HD2	2.37	0.40
2:SE:110:ILE:HA	2:SE:113:GLU:OE2	2.21	0.40
2:SE:171:ILE:HA	2:SE:204:VAL:HG13	2.04	0.40
2:SE:252:LEU:HD12	2:SE:253:THR:N	2.36	0.40
3:SF:189:VAL:HA	3:SF:192:LEU:HB2	2.03	0.40
3:SF:253:LEU:O	3:SF:257:MET:HG3	2.22	0.40
2:SG:6:SER:O	2:SG:65:ALA:HA	2.21	0.40
2:SG:255:PHE:O	2:SG:259:LEU:HD23	2.21	0.40
3:SH:414:ASN:O	3:SH:418:LEU:HG	2.21	0.40
3:SJ:41:ASP:O	3:SJ:45:GLU:HG2	2.21	0.40
3:SJ:138:SER:HB2	3:SJ:169:VAL:HG12	2.02	0.40
3:TF:218:THR:OG1	3:TF:219:THR:N	2.54	0.40
3:TF:317:PHE:HD2	3:TF:353:VAL:HG22	1.87	0.40
2:TG:396:ASP:OD1	2:TG:397:LEU:N	2.55	0.40
2:TG:406:HIS:CG	2:TG:407:TRP:N	2.89	0.40
3:TH:412:GLU:HA	3:TH:415:MET:HG2	2.02	0.40
2:TI:260:VAL:HG23	2:TI:265:ILE:O	2.22	0.40
2:TI:338:LYS:HZ2	2:TI:340:THR:N	2.09	0.40
3:UD:145:SER:O	3:UD:149:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:34:GLY:HA2	2:UE:86:LEU:CD2	2.50	0.40
2:UE:59:GLY:O	2:UE:60:LYS:HD3	2.21	0.40
2:UE:115:VAL:HA	2:UE:118:VAL:HB	2.04	0.40
2:UG:54:SER:N	2:UG:62:VAL:H	2.17	0.40
2:UG:240:ALA:HB1	2:UG:356:ASN:HD22	1.85	0.40
2:UG:263:PRO:HB2	2:UG:264:ARG:NH1	2.37	0.40
2:UG:311:LYS:HZ2	2:UG:342:GLN:HB3	1.86	0.40
3:UH:183:TYR:O	3:UH:186:THR:HG22	2.21	0.40
2:VE:356:ASN:OD1	2:VE:357:TYR:N	2.55	0.40
2:VG:3:GLU:OE2	2:VG:131:GLY:N	2.54	0.40
3:VH:74:ASP:OD1	3:VH:75:SER:N	2.54	0.40
3:VH:138:SER:HB2	3:VH:169:VAL:HG12	2.03	0.40
3:VH:155:ILE:HA	3:VH:158:GLU:HB2	2.03	0.40
3:VH:211:CYS:HA	3:VH:215:LEU:HD12	2.04	0.40
2:WE:27:GLU:HG2	2:WE:28:HIS:N	2.37	0.40
2:WG:102:ASN:CG	2:WG:105:ARG:H	2.25	0.40
3:WH:40:SER:HB2	3:WH:43:GLN:CG	2.48	0.40
3:WH:203:ASP:HB3	3:WH:301:ALA:O	2.21	0.40
2:WI:361:THR:OG1	2:WI:362:VAL:N	2.54	0.40
22:XE:47:LEU:HB2	22:XE:162:ILE:HB	2.03	0.40
22:XE:50:GLU:OE1	22:XE:159:ASN:HA	2.21	0.40
23:XL:97:PHE:HB3	23:XL:136:PRO:HB2	2.03	0.40
24:YI:58:ASN:OD1	24:YI:58:ASN:N	2.51	0.40
24:YI:104:VAL:HG13	24:YI:104:VAL:O	2.22	0.40
1:A2:368:ARG:HH12	1:A3:26:ARG:HE	1.68	0.40
2:AE:189:LEU:HA	2:AE:192:HIS:HD1	1.85	0.40
2:AG:52:PHE:O	2:AG:64:ARG:HG3	2.21	0.40
2:AG:292:THR:HA	2:AG:295:CYS:SG	2.61	0.40
3:AH:113:VAL:O	3:AH:117:LEU:HD23	2.21	0.40
2:BE:99:ALA:HB3	2:BE:144:GLY:O	2.22	0.40
2:BE:196:GLU:HG2	2:BE:197:HIS:CE1	2.56	0.40
3:BF:167:PHE:HD1	3:BF:200:TYR:CD2	2.40	0.40
3:BF:348:ASN:OD1	3:BF:348:ASN:N	2.55	0.40
2:BG:171:ILE:HG21	25:BG:501:GTP:HN22	1.87	0.40
3:BH:198:GLU:HG2	3:BH:266:PHE:CE2	2.56	0.40
2:BI:86:LEU:H	2:BI:86:LEU:HD12	1.86	0.40
2:BI:89:PRO:HD3	2:CI:284:GLU:OE2	2.20	0.40
2:BI:164:LYS:HB3	2:BI:164:LYS:HE3	1.89	0.40
5:C3:202:ARG:HD2	5:C3:205:ARG:NH1	2.37	0.40
5:C3:309:LEU:HD23	5:C3:312:GLN:HE22	1.84	0.40
5:C7:295:SER:HB3	5:C8:412:CYS:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:163:ILE:HD11	3:CF:251:ARG:HB2	2.02	0.40
2:CG:1:MET:HE1	2:CG:46:ASP:OD1	2.22	0.40
2:CG:26:LEU:O	2:CG:29:GLY:N	2.43	0.40
2:CG:273:ALA:HB3	2:CG:274:PRO:HD3	2.04	0.40
3:CH:2:ARG:NH2	3:CH:131:GLN:HA	2.36	0.40
3:CH:337:ASN:HD22	3:CH:340:TYR:HD2	1.70	0.40
2:CI:338:LYS:HZ3	2:CI:339:ARG:H	1.68	0.40
3:CJ:49:VAL:O	3:CJ:62:ARG:NH2	2.55	0.40
3:CJ:204:ASN:OD1	3:CJ:204:ASN:N	2.53	0.40
3:CJ:318:ARG:HG2	3:CJ:356:ILE:O	2.22	0.40
3:CJ:375:GLN:HA	3:CJ:378:PHE:CZ	2.56	0.40
6:D3:238:VAL:HG22	6:D4:351:ARG:HD2	2.03	0.40
6:D3:326:LEU:HA	6:D3:329:ILE:HD12	2.03	0.40
6:D7:363:ARG:HA	6:D7:364:PRO:HD3	1.92	0.40
3:DF:65:LEU:HD13	3:DF:90:PHE:CE1	2.57	0.40
3:DF:324:LYS:HE2	3:DF:324:LYS:HB2	1.86	0.40
2:EE:75:VAL:HA	2:EE:78:VAL:HG22	2.03	0.40
2:EE:132:LEU:HD13	2:EE:164:LYS:HE3	2.04	0.40
2:EE:413:MET:HG3	2:EE:414:GLU:O	2.22	0.40
3:EF:278:SER:O	3:EF:282:ARG:HB2	2.21	0.40
3:EF:362:LYS:HB2	3:EF:362:LYS:HE2	1.90	0.40
2:EG:21:TRP:CE3	2:EG:24:TYR:HD2	2.40	0.40
2:EG:102:ASN:HD21	2:EG:411:GLU:HG2	1.87	0.40
3:EH:162:ARG:HA	3:EH:162:ARG:HD3	1.77	0.40
8:F2:198:ARG:HG3	8:F2:201:ARG:HH21	1.86	0.40
3:FD:145:SER:HB2	3:FD:188:SER:HB3	2.02	0.40
9:G1:442:TYR:OH	9:G1:447:ASP:HA	2.21	0.40
9:G2:222:LYS:HG3	9:G2:223:TYR:N	2.37	0.40
10:G5:575:LYS:C	10:G5:734:ARG:HD2	2.42	0.40
3:GD:4:ILE:HD11	3:GD:131:GLN:HB2	2.04	0.40
3:GD:7:LEU:HB3	3:GD:135:LEU:HD13	2.04	0.40
3:GD:157:GLU:OE1	3:GD:157:GLU:N	2.40	0.40
3:GD:347:ASN:HB3	2:GE:178:SER:HB3	2.04	0.40
2:GE:186:ASN:HA	2:GE:189:LEU:HD12	2.03	0.40
3:GF:150:LEU:O	3:GF:154:LYS:HG3	2.21	0.40
3:GF:316:VAL:HB	3:GF:366:THR:HG22	2.03	0.40
2:GI:171:ILE:HD11	2:GI:206:ASN:N	2.37	0.40
2:GI:229:ARG:HA	2:GI:229:ARG:HD2	1.92	0.40
2:GI:276:ILE:HD12	2:GI:276:ILE:HA	1.93	0.40
2:GI:384:ILE:HB	2:GI:388:TRP:HZ3	1.86	0.40
11:H4:246:ASP:OD1	11:H4:247:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:183:GLU:N	2:HE:184:PRO:HD2	2.36	0.40
2:HG:75:VAL:O	2:HG:78:VAL:HG12	2.22	0.40
2:HI:1:MET:SD	2:HI:50:ASN:ND2	2.95	0.40
2:IE:220:GLU:O	2:IE:221:ARG:NE	2.48	0.40
3:IF:271:ALA:HB1	3:IF:272:PRO:CD	2.51	0.40
2:IG:414:GLU:OE1	2:IG:414:GLU:N	2.55	0.40
2:II:269:LEU:HD23	2:II:270:ALA:N	2.36	0.40
3:JD:77:ARG:O	3:JD:82:GLY:HA3	2.21	0.40
2:JE:21:TRP:CE3	2:JE:24:TYR:HD2	2.39	0.40
2:JG:337:THR:O	2:JG:339:ARG:HD3	2.22	0.40
14:K2:448:ASN:HA	14:K2:451:LYS:HE3	2.02	0.40
14:K2:462:ARG:HH22	3:KD:403:MET:HE3	1.87	0.40
14:K3:337:ALA:O	14:K3:340:MET:HB3	2.22	0.40
3:KD:12:CYS:CA	3:KD:15:GLN:HG2	2.47	0.40
3:KD:405:GLU:HA	3:KD:408:PHE:CD2	2.52	0.40
3:KF:256:ASN:HD21	2:KG:101:ASN:HD22	1.70	0.40
3:KF:318:ARG:HD3	3:KF:358:PRO:HG3	2.04	0.40
2:KG:35:GLN:HG2	2:KG:59:GLY:O	2.22	0.40
2:KG:155:GLU:O	2:KG:159:VAL:HG13	2.22	0.40
2:KG:213:CYS:O	2:KG:217:LEU:HB2	2.21	0.40
3:KH:259:PRO:C	2:KI:406:HIS:HE1	2.25	0.40
2:KI:326:LYS:HE3	2:KI:326:LYS:HB3	1.89	0.40
2:KI:328:VAL:O	2:KI:332:ILE:HG23	2.22	0.40
15:L3:85:LYS:HA	15:L3:86:PRO:HD3	1.96	0.40
3:LF:77:ARG:HA	3:LF:77:ARG:HD2	1.85	0.40
3:LF:163:ILE:HD11	3:LF:251:ARG:HD2	2.04	0.40
3:LF:284:LEU:HD12	3:LF:284:LEU:HA	1.94	0.40
3:LF:406:MET:O	3:LF:410:GLU:OE1	2.39	0.40
2:LG:214:ARG:HH11	2:LG:215:ARG:HG3	1.87	0.40
3:LH:113:VAL:HG23	3:LH:154:LYS:HE3	2.04	0.40
2:LI:56:THR:OG1	2:MI:285:GLN:HB2	2.21	0.40
2:ME:50:ASN:O	2:ME:64:ARG:NH1	2.50	0.40
2:ME:109:THR:OG1	2:ME:110:ILE:HG12	2.21	0.40
2:ME:232:GLY:O	2:ME:235:VAL:HG12	2.20	0.40
2:ME:404:PHE:O	2:ME:407:TRP:HB2	2.21	0.40
2:ME:406:HIS:CG	2:ME:407:TRP:N	2.89	0.40
3:MF:36:TYR:CZ	3:MF:38:GLY:HA2	2.56	0.40
3:MF:130:LEU:HB2	3:MF:162:ARG:NH1	2.37	0.40
3:MF:418:LEU:HD22	3:MF:422:TYR:HE2	1.85	0.40
2:MG:326:LYS:HD3	3:MH:220:PRO:HG2	2.02	0.40
3:MH:189:VAL:O	3:MH:193:VAL:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MI:332:ILE:O	2:MI:336:LYS:HG3	2.22	0.40
17:N2:161:ASN:O	17:N2:162:ASP:HB2	2.22	0.40
3:ND:80:PRO:O	3:ND:83:GLN:NE2	2.30	0.40
3:ND:319:GLY:O	3:ND:355:ASP:HA	2.21	0.40
3:NH:308:GLY:HA3	3:NH:372:THR:OG1	2.21	0.40
2:NI:345:ASP:N	2:NI:345:ASP:OD1	2.55	0.40
2:NI:372:GLN:HB2	2:NI:373:ARG:NH1	2.36	0.40
3:OD:374:ILE:HG22	3:OD:378:PHE:HD2	1.87	0.40
2:OE:140:SER:HA	2:OE:170:ALA:HB1	2.02	0.40
3:OF:258:VAL:HG12	2:OG:406:HIS:CE1	2.56	0.40
2:OG:16:ILE:CD1	25:OG:501:GTP:HN1	2.34	0.40
2:OG:205:ASP:HB3	2:OG:302:MET:O	2.22	0.40
3:OH:32:PRO:C	3:OH:83:GLN:HE21	2.22	0.40
3:OH:217:LEU:HD11	3:OH:220:PRO:HB3	2.04	0.40
3:OH:274:THR:HG21	3:OH:279:GLN:HG3	2.03	0.40
3:OH:277:GLY:O	3:OH:281:TYR:HB2	2.21	0.40
3:OH:385:PHE:CE2	3:OH:412:GLU:HB2	2.56	0.40
2:OI:334:THR:O	2:OI:337:THR:OG1	2.31	0.40
2:OI:368:LEU:H	2:OI:368:LEU:HD23	1.87	0.40
19:P1:605:VAL:HA	19:P1:610:ALA:O	2.20	0.40
19:P2:113:LYS:O	19:P2:131:GLY:N	2.54	0.40
19:P2:351:CYS:HB3	19:P2:380:ILE:HD13	2.02	0.40
19:P2:476:CYS:HA	19:P2:510:TYR:OH	2.22	0.40
2:PE:139:HIS:CE1	2:PE:170:ALA:HB2	2.56	0.40
2:PE:189:LEU:HA	2:PE:192:HIS:CE1	2.56	0.40
3:PF:11:GLN:HG3	25:PF:501:GTP:O5'	2.21	0.40
3:PF:311:LEU:HB2	3:PF:370:ASN:O	2.22	0.40
3:PF:357:PRO:HA	3:PF:358:PRO:HD3	2.00	0.40
3:PH:285:THR:O	3:PH:288:GLU:HG3	2.22	0.40
2:PI:192:HIS:HB2	2:PI:424:ASP:OD2	2.22	0.40
2:PI:234:ILE:HD11	2:PI:272:TYR:HB2	2.03	0.40
2:PI:266:HIS:C	2:PI:268:PRO:HD3	2.42	0.40
20:Q1:1385:LYS:HA	20:Q1:1388:LEU:HD23	2.03	0.40
2:QE:341:ILE:HD11	2:QE:343:PHE:CE1	2.57	0.40
2:QE:347:CYS:HB2	2:QE:349:THR:O	2.21	0.40
3:QF:170:VAL:N	3:QF:202:ILE:O	2.28	0.40
3:QF:286:VAL:HG21	3:QF:325:GLU:HG3	2.03	0.40
3:QF:324:LYS:HE3	3:QF:324:LYS:HB3	1.91	0.40
2:QG:53:PHE:CD2	2:QG:61:HIS:HB3	2.57	0.40
2:QG:393:HIS:HA	2:QG:396:ASP:OD2	2.22	0.40
3:QH:11:GLN:HG3	25:QH:501:GTP:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:24:ILE:HG23	3:QH:28:HIS:CE1	2.57	0.40
2:QI:142:GLY:HA3	2:QI:183:GLU:HG2	2.02	0.40
2:RE:81:GLY:O	2:RE:84:ARG:NH1	2.54	0.40
2:RE:141:PHE:HD2	2:RE:173:PRO:HD3	1.86	0.40
2:RG:137:ILE:N	2:RG:167:LEU:O	2.54	0.40
2:RG:175:PRO:O	2:RG:390:ARG:HD3	2.21	0.40
2:RG:312:TYR:CE2	2:RG:341:ILE:HG23	2.57	0.40
2:RG:345:ASP:N	2:RG:345:ASP:OD1	2.55	0.40
2:RG:405:VAL:O	2:RG:409:VAL:HG13	2.22	0.40
3:RH:117:LEU:HB3	3:RH:121:ARG:NH2	2.37	0.40
3:RH:213:ARG:O	3:RH:216:LYS:HE2	2.22	0.40
3:RH:391:ARG:HG3	3:RH:391:ARG:O	2.22	0.40
3:RJ:204:ASN:OD1	3:RJ:205:GLU:N	2.54	0.40
3:RJ:253:LEU:O	3:RJ:257:MET:HG2	2.21	0.40
2:SE:188:ILE:HG12	2:SE:425:LEU:HD21	2.03	0.40
3:SF:11:GLN:HB2	25:SF:501:GTP:C3'	2.46	0.40
2:SG:221:ARG:HA	2:SG:221:ARG:CZ	2.51	0.40
2:SI:102:ASN:ND2	2:SI:105:ARG:H	2.19	0.40
2:SI:201:ALA:H	2:SI:266:HIS:HD2	1.69	0.40
3:SJ:28:HIS:CG	3:SJ:47:ILE:HD13	2.56	0.40
3:SJ:318:ARG:HD3	3:SJ:358:PRO:HG3	2.04	0.40
3:SJ:322:SER:OG	3:SJ:324:LYS:HG2	2.22	0.40
3:TF:392:LYS:HD2	3:TF:392:LYS:O	2.21	0.40
2:TG:273:ALA:O	2:TG:275:VAL:N	2.51	0.40
3:TH:197:ASP:OD1	3:TH:198:GLU:N	2.55	0.40
2:TI:149:PHE:O	2:TI:152:LEU:HG	2.21	0.40
2:TI:207:GLU:HB2	2:TI:304:LYS:NZ	2.37	0.40
3:UD:154:LYS:HB2	3:UD:154:LYS:HE2	1.92	0.40
3:UF:52:ASN:O	3:UF:60:VAL:HG12	2.22	0.40
3:UF:82:GLY:HA2	3:UF:85:PHE:CD2	2.56	0.40
3:UF:112:LEU:O	3:UF:116:VAL:HG13	2.21	0.40
3:UF:173:PRO:O	3:UF:380:ARG:NH2	2.54	0.40
3:UF:249:ASP:O	3:UF:253:LEU:HG	2.21	0.40
3:UF:260:PHE:HB3	3:UF:262:ARG:NH1	2.37	0.40
3:UF:330:MET:HE3	3:UF:331:LEU:HD22	2.04	0.40
2:UG:12:ALA:HA	25:UG:501:GTP:N2	2.36	0.40
2:UG:217:LEU:HD13	2:UG:277:SER:HA	2.04	0.40
3:VD:86:ARG:NE	3:VD:86:ARG:HA	2.36	0.40
3:VD:247:ASN:CB	3:VD:252:LYS:HG2	2.51	0.40
2:VE:408:TYR:HA	2:VE:411:GLU:HG3	2.04	0.40
3:VF:134:GLN:HA	3:VF:165:ASN:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:332:ILE:O	2:VG:335:ILE:HB	2.22	0.40
3:VH:200:TYR:HD1	3:VH:268:PRO:HG3	1.86	0.40
3:VH:394:PHE:HD1	3:VH:397:TRP:HZ3	1.70	0.40
2:WE:178:SER:OG	2:WE:180:ALA:O	2.40	0.40
2:WE:338:LYS:NZ	2:WE:340:THR:HG23	2.37	0.40
3:WF:192:LEU:O	3:WF:196:THR:HG22	2.21	0.40
2:WG:70:LEU:HB3	2:WG:98:ASP:HA	2.03	0.40
2:WG:205:ASP:OD2	2:WG:207:GLU:HB2	2.21	0.40
2:WG:215:ARG:HH12	2:WG:299:ALA:C	2.25	0.40
3:WH:154:LYS:HB2	3:WH:154:LYS:HE2	1.92	0.40
2:WI:3:GLU:H	2:WI:133:GLN:NE2	2.20	0.40
2:WI:175:PRO:HA	2:WI:390:ARG:NE	2.37	0.40
22:XC:125:LEU:HD12	22:XC:125:LEU:HA	1.88	0.40
23:XJ:134:ILE:HA	23:XJ:137:ILE:HD12	2.03	0.40
24:YK:22:GLN:O	24:YK:26:ILE:HG12	2.21	0.40
24:YL:96:LEU:HB3	24:YL:148:MET:HE1	2.04	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A2	351/418 (84%)	332 (95%)	18 (5%)	1 (0%)	41	76
1	A3	207/418 (50%)	198 (96%)	9 (4%)	0	100	100
2	AE	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	47	81
2	AG	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
2	AI	436/438 (100%)	402 (92%)	34 (8%)	0	100	100
2	BE	436/438 (100%)	397 (91%)	38 (9%)	1 (0%)	47	81
2	BG	436/438 (100%)	398 (91%)	38 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BI	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
2	CG	436/438 (100%)	406 (93%)	30 (7%)	0	100	100
2	CI	436/438 (100%)	397 (91%)	38 (9%)	1 (0%)	47	81
2	DE	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	47	81
2	DG	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
2	EE	436/438 (100%)	406 (93%)	30 (7%)	0	100	100
2	EG	436/438 (100%)	400 (92%)	35 (8%)	1 (0%)	47	81
2	FE	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	47	81
2	FG	436/438 (100%)	399 (92%)	35 (8%)	2 (0%)	29	68
2	GE	436/438 (100%)	398 (91%)	38 (9%)	0	100	100
2	GG	436/438 (100%)	399 (92%)	37 (8%)	0	100	100
2	GI	436/438 (100%)	406 (93%)	30 (7%)	0	100	100
2	HE	436/438 (100%)	401 (92%)	34 (8%)	1 (0%)	47	81
2	HG	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	47	81
2	HI	436/438 (100%)	414 (95%)	22 (5%)	0	100	100
2	IE	436/438 (100%)	404 (93%)	32 (7%)	0	100	100
2	IG	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
2	II	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
2	JE	436/438 (100%)	398 (91%)	37 (8%)	1 (0%)	47	81
2	JG	436/438 (100%)	403 (92%)	33 (8%)	0	100	100
2	KE	436/438 (100%)	401 (92%)	35 (8%)	0	100	100
2	KG	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	47	81
2	KI	436/438 (100%)	400 (92%)	35 (8%)	1 (0%)	47	81
2	LE	436/438 (100%)	398 (91%)	37 (8%)	1 (0%)	47	81
2	LG	436/438 (100%)	396 (91%)	38 (9%)	2 (0%)	29	68
2	LI	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	47	81
2	ME	436/438 (100%)	404 (93%)	32 (7%)	0	100	100
2	MG	436/438 (100%)	395 (91%)	40 (9%)	1 (0%)	47	81
2	MI	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	47	81
2	NE	436/438 (100%)	400 (92%)	36 (8%)	0	100	100
2	NG	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	47	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	NI	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
2	OE	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	47	81
2	OG	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	OI	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	47	81
2	PE	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
2	PG	436/438 (100%)	406 (93%)	30 (7%)	0	100	100
2	PI	436/438 (100%)	413 (95%)	23 (5%)	0	100	100
2	QE	436/438 (100%)	402 (92%)	34 (8%)	0	100	100
2	QG	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	QI	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	RE	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	47	81
2	RG	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	RI	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	47	81
2	SE	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	47	81
2	SG	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	47	81
2	SI	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	TG	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	47	81
2	TI	436/438 (100%)	398 (91%)	37 (8%)	1 (0%)	47	81
2	UE	436/438 (100%)	406 (93%)	30 (7%)	0	100	100
2	UG	436/438 (100%)	399 (92%)	37 (8%)	0	100	100
2	VE	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
2	VG	436/438 (100%)	402 (92%)	34 (8%)	0	100	100
2	WE	436/438 (100%)	401 (92%)	35 (8%)	0	100	100
2	WG	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	47	81
2	WI	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
3	AF	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	29	68
3	AH	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	47	81
3	BF	425/427 (100%)	394 (93%)	29 (7%)	2 (0%)	29	68
3	BH	425/427 (100%)	392 (92%)	32 (8%)	1 (0%)	47	81
3	CF	425/427 (100%)	403 (95%)	21 (5%)	1 (0%)	47	81
3	CH	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CJ	425/427 (100%)	402 (95%)	22 (5%)	1 (0%)	47	81
3	DD	425/427 (100%)	387 (91%)	37 (9%)	1 (0%)	47	81
3	DF	425/427 (100%)	389 (92%)	35 (8%)	1 (0%)	47	81
3	DH	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	29	68
3	ED	425/427 (100%)	389 (92%)	35 (8%)	1 (0%)	47	81
3	EF	425/427 (100%)	402 (95%)	22 (5%)	1 (0%)	47	81
3	EH	425/427 (100%)	402 (95%)	22 (5%)	1 (0%)	47	81
3	FD	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	47	81
3	FF	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	47	81
3	FH	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	29	68
3	GD	425/427 (100%)	402 (95%)	22 (5%)	1 (0%)	47	81
3	GF	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	47	81
3	GH	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81
3	HD	425/427 (100%)	392 (92%)	32 (8%)	1 (0%)	47	81
3	HF	425/427 (100%)	389 (92%)	34 (8%)	2 (0%)	29	68
3	HH	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	47	81
3	IF	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	47	81
3	IH	425/427 (100%)	406 (96%)	18 (4%)	1 (0%)	47	81
3	JD	425/427 (100%)	404 (95%)	20 (5%)	1 (0%)	47	81
3	JF	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	47	81
3	JH	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	47	81
3	KD	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	47	81
3	KF	425/427 (100%)	405 (95%)	19 (4%)	1 (0%)	47	81
3	KH	425/427 (100%)	396 (93%)	28 (7%)	1 (0%)	47	81
3	LD	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	47	81
3	LF	425/427 (100%)	393 (92%)	31 (7%)	1 (0%)	47	81
3	LH	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81
3	MF	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	47	81
3	MH	425/427 (100%)	391 (92%)	34 (8%)	0	100	100
3	ND	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81
3	NF	425/427 (100%)	397 (93%)	28 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	NH	425/427 (100%)	397 (93%)	28 (7%)	0	100	100
3	OD	425/427 (100%)	405 (95%)	19 (4%)	1 (0%)	47	81
3	OF	425/427 (100%)	396 (93%)	28 (7%)	1 (0%)	47	81
3	OH	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	47	81
3	PF	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81
3	PH	425/427 (100%)	389 (92%)	35 (8%)	1 (0%)	47	81
3	QF	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	47	81
3	QH	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	47	81
3	RF	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	47	81
3	RH	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	29	68
3	RJ	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	47	81
3	SF	425/427 (100%)	405 (95%)	20 (5%)	0	100	100
3	SH	425/427 (100%)	395 (93%)	30 (7%)	0	100	100
3	SJ	425/427 (100%)	393 (92%)	31 (7%)	1 (0%)	47	81
3	TF	425/427 (100%)	402 (95%)	23 (5%)	0	100	100
3	TH	425/427 (100%)	405 (95%)	19 (4%)	1 (0%)	47	81
3	TJ	425/427 (100%)	393 (92%)	31 (7%)	1 (0%)	47	81
3	UD	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	47	81
3	UF	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	29	68
3	UH	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	47	81
3	VD	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	47	81
3	VF	425/427 (100%)	405 (95%)	19 (4%)	1 (0%)	47	81
3	VH	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	47	81
3	WF	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	47	81
3	WH	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	47	81
4	B2	246/430 (57%)	233 (95%)	13 (5%)	0	100	100
4	B3	339/430 (79%)	317 (94%)	21 (6%)	1 (0%)	41	76
4	B7	372/430 (86%)	355 (95%)	14 (4%)	3 (1%)	19	60
4	B8	173/430 (40%)	165 (95%)	8 (5%)	0	100	100
5	C2	138/490 (28%)	127 (92%)	11 (8%)	0	100	100
5	C3	364/490 (74%)	348 (96%)	16 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	C4	79/490 (16%)	75 (95%)	4 (5%)	0	100	100
5	C7	239/490 (49%)	228 (95%)	11 (5%)	0	100	100
5	C8	308/490 (63%)	296 (96%)	12 (4%)	0	100	100
5	Cb	258/490 (53%)	248 (96%)	10 (4%)	0	100	100
5	Cc	263/490 (54%)	246 (94%)	17 (6%)	0	100	100
6	D2	70/447 (16%)	65 (93%)	5 (7%)	0	100	100
6	D3	390/447 (87%)	373 (96%)	17 (4%)	0	100	100
6	D4	130/447 (29%)	124 (95%)	6 (5%)	0	100	100
6	D7	99/447 (22%)	93 (94%)	6 (6%)	0	100	100
6	D8	386/447 (86%)	366 (95%)	19 (5%)	1 (0%)	41	76
6	D9	98/447 (22%)	89 (91%)	9 (9%)	0	100	100
7	E2	185/206 (90%)	140 (76%)	44 (24%)	1 (0%)	29	68
7	E3	61/206 (30%)	49 (80%)	12 (20%)	0	100	100
8	F2	318/557 (57%)	300 (94%)	18 (6%)	0	100	100
8	F3	230/557 (41%)	220 (96%)	10 (4%)	0	100	100
8	F6	301/557 (54%)	283 (94%)	18 (6%)	0	100	100
8	F7	241/557 (43%)	227 (94%)	14 (6%)	0	100	100
8	Fa	210/557 (38%)	200 (95%)	9 (4%)	1 (0%)	29	68
8	Fb	317/557 (57%)	307 (97%)	9 (3%)	1 (0%)	41	76
8	Fc	24/557 (4%)	24 (100%)	0	0	100	100
8	F1	326/557 (58%)	312 (96%)	13 (4%)	1 (0%)	41	76
9	G1	506/648 (78%)	448 (88%)	56 (11%)	2 (0%)	34	72
9	G2	491/648 (76%)	428 (87%)	61 (12%)	2 (0%)	34	72
10	G5	745/750 (99%)	631 (85%)	107 (14%)	7 (1%)	17	56
11	H3	139/319 (44%)	99 (71%)	32 (23%)	8 (6%)	1	20
11	H4	131/319 (41%)	95 (72%)	26 (20%)	10 (8%)	1	15
12	I2	36/200 (18%)	31 (86%)	5 (14%)	0	100	100
12	I3	36/200 (18%)	33 (92%)	3 (8%)	0	100	100
13	J2	169/189 (89%)	131 (78%)	37 (22%)	1 (1%)	25	65
13	J3	169/189 (89%)	132 (78%)	36 (21%)	1 (1%)	25	65
14	K2	205/499 (41%)	177 (86%)	21 (10%)	7 (3%)	3	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	K3	424/499 (85%)	358 (84%)	53 (12%)	13 (3%)	4	31
14	K4	163/499 (33%)	130 (80%)	28 (17%)	5 (3%)	4	31
15	L2	234/255 (92%)	193 (82%)	39 (17%)	2 (1%)	17	56
15	L3	234/255 (92%)	189 (81%)	44 (19%)	1 (0%)	34	72
16	M2	60/141 (43%)	46 (77%)	14 (23%)	0	100	100
16	M3	60/141 (43%)	51 (85%)	9 (15%)	0	100	100
17	N2	64/168 (38%)	40 (62%)	24 (38%)	0	100	100
17	N3	64/168 (38%)	51 (80%)	13 (20%)	0	100	100
18	O1	101/189 (53%)	81 (80%)	20 (20%)	0	100	100
18	O2	101/189 (53%)	78 (77%)	22 (22%)	1 (1%)	15	54
19	P1	606/620 (98%)	563 (93%)	40 (7%)	3 (0%)	29	68
19	P2	606/620 (98%)	564 (93%)	39 (6%)	3 (0%)	29	68
20	Q1	176/1516 (12%)	143 (81%)	32 (18%)	1 (1%)	25	65
20	Q2	176/1516 (12%)	140 (80%)	34 (19%)	2 (1%)	14	52
21	R2	67/283 (24%)	58 (87%)	8 (12%)	1 (2%)	10	46
22	XC	183/193 (95%)	169 (92%)	14 (8%)	0	100	100
22	XD	183/193 (95%)	174 (95%)	9 (5%)	0	100	100
22	XE	183/193 (95%)	168 (92%)	15 (8%)	0	100	100
23	XJ	174/241 (72%)	150 (86%)	24 (14%)	0	100	100
23	XK	174/241 (72%)	154 (88%)	20 (12%)	0	100	100
23	XL	174/241 (72%)	150 (86%)	24 (14%)	0	100	100
24	YI	166/168 (99%)	147 (89%)	18 (11%)	1 (1%)	25	65
24	YJ	166/168 (99%)	152 (92%)	13 (8%)	1 (1%)	25	65
24	YK	166/168 (99%)	148 (89%)	18 (11%)	0	100	100
24	YL	166/168 (99%)	148 (89%)	16 (10%)	2 (1%)	13	50
24	YM	166/168 (99%)	150 (90%)	14 (8%)	2 (1%)	13	50
24	YN	166/168 (99%)	144 (87%)	20 (12%)	2 (1%)	13	50
All	All	67499/80058 (84%)	62373 (92%)	4946 (7%)	180 (0%)	44	76

All (180) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A2	209	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	BE	264	ARG
2	FE	264	ARG
2	FG	15	GLN
9	G2	226	PRO
10	G5	631	ILE
10	G5	722	VAL
10	G5	727	PRO
11	H3	13	GLU
11	H3	218	ILE
11	H4	13	GLU
11	H4	256	HIS
2	HE	264	ARG
13	J2	33	SER
13	J3	33	SER
14	K2	188	CYS
14	K2	189	GLU
14	K3	108	ARG
14	K3	109	LEU
14	K3	245	VAL
14	K3	393	LEU
14	K4	108	ARG
14	K4	109	LEU
14	K4	243	GLN
19	P1	280	SER
20	Q1	1505	ILE
20	Q2	1505	ILE
24	YI	60	SER
24	YJ	60	SER
24	YL	60	SER
24	YL	86	LEU
24	YM	60	SER
24	YM	86	LEU
24	YN	60	SER
24	YN	86	LEU
4	B7	125	ASP
4	B7	399	VAL
4	B7	404	PHE
3	BF	177	ASP
3	CF	177	ASP
6	D8	365	ASN
3	DF	177	ASP
3	ED	177	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	EH	177	ASP
3	FD	177	ASP
3	FF	177	ASP
3	FH	177	ASP
3	FH	218	THR
8	Fb	197	ASN
9	G1	6	VAL
3	GD	177	ASP
3	GF	177	ASP
3	GH	177	ASP
11	H3	12	PRO
11	H3	292	MET
11	H4	12	PRO
11	H4	16	TYR
11	H4	214	GLN
11	H4	257	PRO
3	HD	177	ASP
3	HF	15	GLN
3	IF	177	ASP
14	K2	405	VAL
14	K2	472	VAL
14	K3	187	LYS
14	K3	243	GLN
14	K3	394	ASN
14	K3	472	VAL
14	K3	491	ARG
14	K4	249	ASN
3	KD	177	ASP
3	KF	177	ASP
3	LF	177	ASP
2	LG	224	TYR
2	LG	264	ARG
3	LH	177	ASP
18	O2	61	TRP
3	OD	177	ASP
19	P1	279	PRO
3	SJ	177	ASP
2	TI	264	ARG
3	UD	177	ASP
3	UF	177	ASP
3	UH	177	ASP
3	VD	177	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AF	177	ASP
3	AH	177	ASP
4	B3	125	ASP
3	BF	218	THR
2	CI	11	GLN
3	CJ	177	ASP
2	DE	264	ARG
3	DH	177	ASP
3	DH	218	THR
8	F1	207	VAL
9	G2	224	VAL
10	G5	30	ASN
11	H3	10	PHE
11	H3	211	ASN
11	H4	258	VAL
3	HF	177	ASP
3	JH	177	ASP
14	K3	265	VAL
14	K3	392	LYS
14	K3	405	VAL
3	KH	177	ASP
15	L2	117	VAL
2	LE	264	ARG
2	MI	264	ARG
3	ND	177	ASP
2	OE	264	ARG
3	OF	177	ASP
3	OH	177	ASP
19	P1	244	PRO
19	P2	278	SER
3	PF	177	ASP
3	PH	177	ASP
3	QH	177	ASP
2	RE	264	ARG
3	RF	177	ASP
3	RH	177	ASP
2	SE	264	ARG
2	TG	264	ARG
3	TH	177	ASP
3	TJ	177	ASP
3	VH	177	ASP
2	WG	264	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	WH	177	ASP
2	AE	264	ARG
3	BH	177	ASP
3	DD	218	THR
3	EF	177	ASP
2	FG	264	ARG
9	G1	224	VAL
10	G5	386	ILE
11	H4	218	ILE
3	JD	177	ASP
2	KG	264	ARG
2	KI	264	ARG
15	L3	117	VAL
2	NG	264	ARG
2	OI	264	ARG
19	P2	281	TYR
3	RH	218	THR
2	RI	264	ARG
3	RJ	177	ASP
2	SG	264	ARG
3	WF	177	ASP
2	EG	11	GLN
10	G5	29	CYS
11	H4	292	MET
2	JE	264	ARG
14	K2	391	GLU
14	K2	491	ARG
3	LD	218	THR
2	MG	264	ARG
3	QF	177	ASP
3	UF	218	THR
3	VF	177	ASP
3	AF	218	THR
3	CH	177	ASP
11	H3	291	SER
11	H4	14	PRO
3	HH	177	ASP
3	IH	177	ASP
3	JF	177	ASP
14	K4	265	VAL
15	L2	30	LEU
3	MF	177	ASP

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Mol	Chain	Res	Type
20	Q2	1418	MET
7	E2	132	PRO
14	K2	487	PRO
14	K3	487	PRO
11	H3	14	PRO
2	LI	265	ILE
19	P2	245	VAL
21	R2	282	HIS
8	Fa	190	VAL
10	G5	369	GLY
2	HG	261	PRO

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A2	326/380 (86%)	323 (99%)	3 (1%)	78	87
1	A3	200/380 (53%)	194 (97%)	6 (3%)	41	63
2	AE	366/366 (100%)	364 (100%)	2 (0%)	88	93
2	AG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	AI	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	BE	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	BG	366/366 (100%)	358 (98%)	8 (2%)	52	71
2	BI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	CG	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	CI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	DE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	DG	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	EE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	EG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	FE	366/366 (100%)	362 (99%)	4 (1%)	73	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	FG	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	GE	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	GG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	GI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	HE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	HG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	HI	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	IE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	IG	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	II	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	JE	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	JG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	KE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	KG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	KI	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	LE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	LG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	LI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	ME	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	MG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	MI	366/366 (100%)	364 (100%)	2 (0%)	88	93
2	NE	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	NG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	NI	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	OE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	OG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	OI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	PE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	PG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	PI	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	QE	366/366 (100%)	362 (99%)	4 (1%)	73	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	QG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	QI	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	RE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	RG	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	RI	366/366 (100%)	359 (98%)	7 (2%)	57	75
2	SE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	SG	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	SI	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	TG	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	TI	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	UE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	UG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	VE	366/366 (100%)	361 (99%)	5 (1%)	67	81
2	VG	366/366 (100%)	360 (98%)	6 (2%)	62	79
2	WE	366/366 (100%)	362 (99%)	4 (1%)	73	85
2	WG	366/366 (100%)	363 (99%)	3 (1%)	81	89
2	WI	366/366 (100%)	360 (98%)	6 (2%)	62	79
3	AF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	AH	367/367 (100%)	367 (100%)	0	100	100
3	BF	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	BH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	CF	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	CH	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	CJ	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	DD	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	DF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	DH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	ED	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	EF	367/367 (100%)	367 (100%)	0	100	100
3	EH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	FD	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	FF	367/367 (100%)	367 (100%)	0	100	100
3	FH	367/367 (100%)	367 (100%)	0	100	100
3	GD	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	GF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	GH	367/367 (100%)	367 (100%)	0	100	100
3	HD	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	HF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	HH	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	IF	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	IH	367/367 (100%)	367 (100%)	0	100	100
3	JD	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	JF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	JH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	KD	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	KF	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	KH	367/367 (100%)	367 (100%)	0	100	100
3	LD	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	LF	367/367 (100%)	363 (99%)	4 (1%)	73	85
3	LH	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	MF	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	MH	367/367 (100%)	363 (99%)	4 (1%)	73	85
3	ND	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	NF	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	NH	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	OD	367/367 (100%)	367 (100%)	0	100	100
3	OF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	OH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	PF	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	PH	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	QF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	QH	367/367 (100%)	364 (99%)	3 (1%)	81	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	RF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	RH	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	RJ	367/367 (100%)	367 (100%)	0	100	100
3	SF	367/367 (100%)	367 (100%)	0	100	100
3	SH	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	SJ	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	TF	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	TH	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	TJ	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	UD	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	UF	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	UH	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	VD	367/367 (100%)	365 (100%)	2 (0%)	88	93
3	VF	367/367 (100%)	367 (100%)	0	100	100
3	VH	367/367 (100%)	366 (100%)	1 (0%)	92	95
3	WF	367/367 (100%)	364 (99%)	3 (1%)	81	89
3	WH	367/367 (100%)	365 (100%)	2 (0%)	88	93
4	B2	225/395 (57%)	224 (100%)	1 (0%)	91	94
4	B3	315/395 (80%)	315 (100%)	0	100	100
4	B7	343/395 (87%)	337 (98%)	6 (2%)	60	78
4	B8	163/395 (41%)	162 (99%)	1 (1%)	86	92
5	C2	132/445 (30%)	131 (99%)	1 (1%)	81	89
5	C3	331/445 (74%)	330 (100%)	1 (0%)	92	95
5	C4	76/445 (17%)	76 (100%)	0	100	100
5	C7	219/445 (49%)	217 (99%)	2 (1%)	78	87
5	C8	282/445 (63%)	279 (99%)	3 (1%)	73	85
5	Cb	236/445 (53%)	235 (100%)	1 (0%)	91	94
5	Cc	238/445 (54%)	236 (99%)	2 (1%)	81	89
6	D2	56/402 (14%)	56 (100%)	0	100	100
6	D3	354/402 (88%)	352 (99%)	2 (1%)	86	92
6	D4	121/402 (30%)	120 (99%)	1 (1%)	81	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	D7	92/402 (23%)	90 (98%)	2 (2%)	52	71
6	D8	354/402 (88%)	352 (99%)	2 (1%)	86	92
6	D9	92/402 (23%)	91 (99%)	1 (1%)	73	85
7	E2	159/174 (91%)	156 (98%)	3 (2%)	57	75
7	E3	50/174 (29%)	50 (100%)	0	100	100
8	F2	298/487 (61%)	296 (99%)	2 (1%)	84	90
8	F3	214/487 (44%)	211 (99%)	3 (1%)	67	81
8	F6	280/487 (58%)	278 (99%)	2 (1%)	84	90
8	F7	228/487 (47%)	227 (100%)	1 (0%)	91	94
8	Fa	199/487 (41%)	197 (99%)	2 (1%)	76	86
8	Fb	295/487 (61%)	291 (99%)	4 (1%)	67	81
8	Fc	23/487 (5%)	23 (100%)	0	100	100
8	F1	305/487 (63%)	302 (99%)	3 (1%)	76	86
9	G1	465/589 (79%)	464 (100%)	1 (0%)	93	96
9	G2	452/589 (77%)	448 (99%)	4 (1%)	78	87
10	G5	681/683 (100%)	677 (99%)	4 (1%)	86	92
11	H3	125/279 (45%)	121 (97%)	4 (3%)	39	62
11	H4	118/279 (42%)	108 (92%)	10 (8%)	10	36
12	I2	33/180 (18%)	33 (100%)	0	100	100
12	I3	33/180 (18%)	33 (100%)	0	100	100
13	J2	153/169 (90%)	152 (99%)	1 (1%)	84	90
13	J3	153/169 (90%)	152 (99%)	1 (1%)	84	90
14	K2	191/434 (44%)	190 (100%)	1 (0%)	88	93
14	K3	375/434 (86%)	370 (99%)	5 (1%)	69	82
14	K4	136/434 (31%)	134 (98%)	2 (2%)	65	80
15	L2	216/235 (92%)	211 (98%)	5 (2%)	50	70
15	L3	216/235 (92%)	213 (99%)	3 (1%)	67	81
16	M2	54/125 (43%)	54 (100%)	0	100	100
16	M3	54/125 (43%)	54 (100%)	0	100	100
17	N2	58/148 (39%)	58 (100%)	0	100	100
17	N3	58/148 (39%)	58 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	O1	88/165 (53%)	87 (99%)	1 (1%)	73	85
18	O2	88/165 (53%)	85 (97%)	3 (3%)	37	61
19	P1	511/522 (98%)	508 (99%)	3 (1%)	86	92
19	P2	511/522 (98%)	506 (99%)	5 (1%)	76	86
20	Q1	162/1391 (12%)	161 (99%)	1 (1%)	86	92
20	Q2	162/1391 (12%)	158 (98%)	4 (2%)	47	68
21	R2	61/250 (24%)	60 (98%)	1 (2%)	62	79
22	XC	173/180 (96%)	171 (99%)	2 (1%)	71	84
22	XD	173/180 (96%)	170 (98%)	3 (2%)	60	78
22	XE	173/180 (96%)	172 (99%)	1 (1%)	86	92
23	XJ	161/215 (75%)	158 (98%)	3 (2%)	57	75
23	XK	161/215 (75%)	159 (99%)	2 (1%)	71	84
23	XL	161/215 (75%)	159 (99%)	2 (1%)	71	84
24	YI	157/157 (100%)	156 (99%)	1 (1%)	86	92
24	YJ	157/157 (100%)	153 (98%)	4 (2%)	47	68
24	YK	157/157 (100%)	156 (99%)	1 (1%)	86	92
24	YL	157/157 (100%)	154 (98%)	3 (2%)	57	75
24	YM	157/157 (100%)	155 (99%)	2 (1%)	69	82
24	YN	157/157 (100%)	154 (98%)	3 (2%)	57	75
All	All	58384/69159 (84%)	57865 (99%)	519 (1%)	79	87

All (519) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A2	74	LYS
1	A2	106	LYS
1	A2	400	ARG
1	A3	10	ARG
1	A3	21	LYS
1	A3	36	ARG
1	A3	74	LYS
1	A3	106	LYS
1	A3	165	ARG
2	AE	84	ARG
2	AE	339	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AF	391	ARG
2	AG	84	ARG
2	AG	124	LYS
2	AG	214	ARG
2	AG	339	ARG
2	AG	401	LYS
2	AG	402	ARG
2	AI	84	ARG
2	AI	214	ARG
2	AI	339	ARG
4	B2	305	ARG
4	B7	11	ARG
4	B7	107	ASN
4	B7	266	ARG
4	B7	305	ARG
4	B7	394	ARG
4	B7	403	LYS
4	B8	305	ARG
2	BE	84	ARG
2	BE	124	LYS
2	BE	214	ARG
3	BF	320	ARG
3	BF	392	LYS
2	BG	84	ARG
2	BG	124	LYS
2	BG	214	ARG
2	BG	229	ARG
2	BG	256	GLN
2	BG	264	ARG
2	BG	339	ARG
2	BG	402	ARG
3	BH	426	GLN
2	BI	84	ARG
2	BI	124	LYS
2	BI	163	LYS
2	BI	214	ARG
2	BI	339	ARG
5	C2	312	GLN
5	C3	439	ARG
5	C7	275	ARG
5	C7	289	ARG
5	C8	179	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	C8	413	ARG
5	C8	439	ARG
3	CF	247	ASN
3	CF	262	ARG
3	CF	392	LYS
2	CG	84	ARG
2	CG	214	ARG
2	CG	264	ARG
2	CG	402	ARG
3	CH	262	ARG
3	CH	392	LYS
2	CI	84	ARG
2	CI	124	LYS
2	CI	214	ARG
2	CI	264	ARG
2	CI	402	ARG
3	CJ	46	ARG
3	CJ	392	LYS
5	Cb	452	LYS
5	Cc	157	LYS
5	Cc	289	ARG
6	D3	184	ARG
6	D3	321	HIS
6	D4	370	ARG
6	D7	316	GLN
6	D7	360	ARG
6	D8	94	ARG
6	D8	400	GLN
6	D9	94	ARG
3	DD	392	LYS
2	DE	84	ARG
2	DE	124	LYS
2	DE	214	ARG
2	DE	229	ARG
2	DE	243	ARG
3	DF	392	LYS
2	DG	79	ARG
2	DG	84	ARG
2	DG	214	ARG
2	DG	430	LYS
3	DH	262	ARG
7	E2	10	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	E2	133	ARG
7	E2	153	ARG
3	ED	318	ARG
3	ED	379	LYS
2	EE	84	ARG
2	EE	124	LYS
2	EE	214	ARG
2	EE	233	GLN
2	EE	430	LYS
2	EG	84	ARG
2	EG	124	LYS
2	EG	214	ARG
2	EG	229	ARG
2	EG	339	ARG
2	EG	402	ARG
3	EH	280	GLN
8	F2	162	ARG
8	F2	473	ARG
8	F3	93	ARG
8	F3	97	ARG
8	F3	162	ARG
8	F6	162	ARG
8	F6	175	ARG
8	F7	175	ARG
2	FE	84	ARG
2	FE	214	ARG
2	FE	264	ARG
2	FE	430	LYS
2	FG	84	ARG
2	FG	214	ARG
2	FG	264	ARG
2	FG	339	ARG
8	Fa	223	LYS
8	Fa	401	ARG
8	Fb	104	ARG
8	Fb	162	ARG
8	Fb	244	ARG
8	Fb	285	LYS
8	F1	122	ARG
8	F1	201	ARG
8	F1	438	GLN
9	G1	27	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	G2	42	ARG
9	G2	78	LYS
9	G2	406	ARG
9	G2	532	GLN
10	G5	100	ARG
10	G5	201	ARG
10	G5	211	ARG
10	G5	415	ARG
3	GD	11	GLN
3	GD	280	GLN
3	GD	390	ARG
2	GE	84	ARG
2	GE	214	ARG
2	GE	243	ARG
2	GE	302	MET
2	GE	339	ARG
2	GE	402	ARG
3	GF	392	LYS
2	GG	84	ARG
2	GG	214	ARG
2	GG	243	ARG
2	GG	402	ARG
2	GG	430	LYS
2	GI	84	ARG
2	GI	214	ARG
2	GI	243	ARG
2	GI	264	ARG
2	GI	402	ARG
11	H3	10	PHE
11	H3	11	THR
11	H3	17	ILE
11	H3	215	ARG
11	H4	11	THR
11	H4	15	HIS
11	H4	211	ASN
11	H4	212	LEU
11	H4	213	ILE
11	H4	214	GLN
11	H4	215	ARG
11	H4	255	ARG
11	H4	258	VAL
11	H4	279	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	HD	262	ARG
2	HE	84	ARG
2	HE	214	ARG
2	HE	229	ARG
2	HE	339	ARG
2	HE	402	ARG
3	HF	391	ARG
2	HG	84	ARG
2	HG	214	ARG
2	HG	233	GLN
2	HG	339	ARG
2	HG	430	LYS
3	HH	262	ARG
3	HH	390	ARG
2	HI	84	ARG
2	HI	214	ARG
2	HI	339	ARG
2	HI	402	ARG
2	IE	84	ARG
2	IE	214	ARG
2	IE	229	ARG
2	IE	339	ARG
3	IF	2	ARG
3	IF	379	LYS
2	IG	84	ARG
2	IG	124	LYS
2	IG	214	ARG
2	IG	264	ARG
2	II	84	ARG
2	II	124	LYS
2	II	214	ARG
2	II	339	ARG
2	II	402	ARG
13	J2	111	ARG
13	J3	111	ARG
3	JD	251	ARG
3	JD	262	ARG
2	JE	84	ARG
2	JE	214	ARG
2	JE	229	ARG
2	JE	264	ARG
2	JE	339	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	JE	402	ARG
3	JF	73	MET
2	JG	84	ARG
2	JG	214	ARG
2	JG	229	ARG
2	JG	339	ARG
2	JG	402	ARG
3	JH	392	LYS
14	K2	395	ARG
14	K3	99	LYS
14	K3	131	ARG
14	K3	156	ARG
14	K3	392	LYS
14	K3	394	ASN
14	K4	99	LYS
14	K4	131	ARG
3	KD	359	ARG
3	KD	392	LYS
2	KE	84	ARG
2	KE	214	ARG
2	KE	264	ARG
2	KE	402	ARG
3	KF	379	LYS
3	KF	392	LYS
2	KG	84	ARG
2	KG	214	ARG
2	KG	264	ARG
2	KG	339	ARG
2	KG	402	ARG
2	KI	84	ARG
2	KI	214	ARG
2	KI	264	ARG
15	L2	47	LYS
15	L2	76	LYS
15	L2	77	LYS
15	L2	226	ARG
15	L2	235	LYS
15	L3	41	LYS
15	L3	70	LYS
15	L3	235	LYS
3	LD	392	LYS
2	LE	84	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	LE	124	LYS
2	LE	214	ARG
2	LE	229	ARG
2	LE	402	ARG
3	LF	190	HIS
3	LF	251	ARG
3	LF	280	GLN
3	LF	392	LYS
2	LG	84	ARG
2	LG	124	LYS
2	LG	214	ARG
2	LG	229	ARG
2	LG	264	ARG
3	LH	2	ARG
3	LH	262	ARG
3	LH	392	LYS
2	LI	84	ARG
2	LI	214	ARG
2	LI	229	ARG
2	LI	339	ARG
2	LI	402	ARG
2	ME	84	ARG
2	ME	124	LYS
2	ME	233	GLN
3	MF	392	LYS
3	MF	426	GLN
2	MG	84	ARG
2	MG	124	LYS
2	MG	214	ARG
2	MG	264	ARG
2	MG	339	ARG
3	MH	2	ARG
3	MH	262	ARG
3	MH	280	GLN
3	MH	323	MET
2	MI	84	ARG
2	MI	214	ARG
3	ND	323	MET
3	ND	392	LYS
2	NE	84	ARG
2	NE	124	LYS
2	NE	214	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	NE	226	ASN
2	NE	380	ASN
2	NE	402	ARG
3	NF	73	MET
3	NF	262	ARG
3	NF	392	LYS
2	NG	84	ARG
2	NG	124	LYS
2	NG	214	ARG
2	NG	226	ASN
2	NG	264	ARG
2	NG	402	ARG
3	NH	73	MET
3	NH	298	ASN
3	NH	392	LYS
2	NI	84	ARG
2	NI	124	LYS
2	NI	214	ARG
2	NI	229	ARG
2	NI	264	ARG
2	NI	402	ARG
18	O1	29	LYS
18	O2	29	LYS
18	O2	46	ARG
18	O2	110	ARG
2	OE	84	ARG
2	OE	214	ARG
2	OE	229	ARG
2	OE	264	ARG
3	OF	392	LYS
2	OG	40	LYS
2	OG	124	LYS
2	OG	214	ARG
2	OG	229	ARG
2	OG	339	ARG
2	OG	402	ARG
3	OH	323	MET
2	OI	84	ARG
2	OI	229	ARG
2	OI	264	ARG
2	OI	339	ARG
2	OI	430	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	P1	242	THR
19	P1	277	LYS
19	P1	369	ARG
19	P2	205	LYS
19	P2	277	LYS
19	P2	323	LYS
19	P2	369	ARG
19	P2	492	ARG
2	PE	84	ARG
2	PE	124	LYS
2	PE	214	ARG
2	PE	229	ARG
3	PF	58	LYS
3	PF	262	ARG
3	PF	392	LYS
2	PG	124	LYS
2	PG	214	ARG
2	PG	264	ARG
2	PG	339	ARG
2	PG	402	ARG
3	PH	156	ARG
3	PH	262	ARG
3	PH	280	GLN
2	PI	214	ARG
2	PI	229	ARG
2	PI	339	ARG
20	Q1	1452	ARG
20	Q2	1418	MET
20	Q2	1442	ARG
20	Q2	1452	ARG
20	Q2	1479	ARG
2	QE	84	ARG
2	QE	214	ARG
2	QE	229	ARG
2	QE	264	ARG
3	QF	392	LYS
2	QG	40	LYS
2	QG	84	ARG
2	QG	124	LYS
2	QG	214	ARG
2	QG	264	ARG
3	QH	2	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	QH	280	GLN
3	QH	392	LYS
2	QI	124	LYS
2	QI	214	ARG
2	QI	339	ARG
21	R2	124	ASN
2	RE	84	ARG
2	RE	124	LYS
2	RE	214	ARG
2	RE	264	ARG
3	RF	262	ARG
2	RG	84	ARG
2	RG	124	LYS
2	RG	264	ARG
2	RG	339	ARG
2	RG	402	ARG
3	RH	103	LYS
3	RH	262	ARG
3	RH	390	ARG
2	RI	40	LYS
2	RI	84	ARG
2	RI	124	LYS
2	RI	214	ARG
2	RI	229	ARG
2	RI	264	ARG
2	RI	339	ARG
2	SE	84	ARG
2	SE	214	ARG
2	SE	229	ARG
2	SE	264	ARG
2	SG	84	ARG
2	SG	124	LYS
2	SG	214	ARG
3	SH	103	LYS
3	SH	320	ARG
2	SI	84	ARG
2	SI	264	ARG
2	SI	339	ARG
2	SI	402	ARG
3	SJ	392	LYS
3	TF	392	LYS
2	TG	84	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	TG	124	LYS
2	TG	229	ARG
2	TG	339	ARG
3	TH	46	ARG
3	TH	392	LYS
2	TI	84	ARG
2	TI	124	LYS
2	TI	214	ARG
2	TI	264	ARG
2	TI	339	ARG
3	TJ	262	ARG
3	TJ	348	ASN
3	TJ	424	GLN
3	UD	392	LYS
2	UE	84	ARG
2	UE	124	LYS
2	UE	214	ARG
2	UE	264	ARG
2	UE	402	ARG
3	UF	122	LYS
3	UF	262	ARG
2	UG	84	ARG
2	UG	124	LYS
2	UG	156	ARG
2	UG	214	ARG
2	UG	224	TYR
2	UG	264	ARG
3	UH	73	MET
3	UH	392	LYS
3	VD	262	ARG
3	VD	318	ARG
2	VE	84	ARG
2	VE	124	LYS
2	VE	163	LYS
2	VE	214	ARG
2	VE	264	ARG
2	VG	84	ARG
2	VG	124	LYS
2	VG	214	ARG
2	VG	229	ARG
2	VG	264	ARG
2	VG	402	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	VH	262	ARG
2	WE	84	ARG
2	WE	214	ARG
2	WE	264	ARG
2	WE	402	ARG
3	WF	73	MET
3	WF	174	LYS
3	WF	280	GLN
2	WG	84	ARG
2	WG	214	ARG
2	WG	264	ARG
3	WH	262	ARG
3	WH	392	LYS
2	WI	84	ARG
2	WI	124	LYS
2	WI	214	ARG
2	WI	264	ARG
2	WI	320	ARG
2	WI	339	ARG
22	XC	27	LYS
22	XC	124	ARG
22	XD	3	LYS
22	XD	27	LYS
22	XD	124	ARG
22	XE	124	ARG
23	XJ	58	LYS
23	XJ	158	HIS
23	XJ	202	ARG
23	XK	112	ARG
23	XK	201	LYS
23	XL	58	LYS
23	XL	202	ARG
24	YI	14	LYS
24	YJ	5	LYS
24	YJ	39	LYS
24	YJ	63	ARG
24	YJ	149	LYS
24	YK	39	LYS
24	YL	5	LYS
24	YL	39	LYS
24	YL	63	ARG
24	YM	5	LYS

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Mol	Chain	Res	Type
24	YM	39	LYS
24	YN	20	GLN
24	YN	39	LYS
24	YN	63	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (464) such sidechains are listed below:

Mol	Chain	Res	Type
1	A2	357	GLN
1	A2	359	GLN
1	A2	361	GLN
1	A2	369	GLN
1	A3	234	ASN
2	AE	61	HIS
2	AE	228	ASN
2	AE	256	GLN
2	AE	283	HIS
2	AE	329	ASN
2	AE	356	ASN
3	AF	204	ASN
3	AF	375	GLN
2	AG	88	HIS
2	AG	283	HIS
2	AG	393	HIS
3	AH	6	HIS
3	AH	11	GLN
3	AH	195	ASN
3	AH	226	ASN
2	AI	8	HIS
2	AI	102	ASN
2	AI	133	GLN
2	AI	329	ASN
4	B3	36	HIS
4	B3	40	GLN
4	B3	152	GLN
4	B3	176	HIS
2	BE	61	HIS
2	BE	285	GLN
3	BF	6	HIS
3	BF	291	GLN
2	BG	8	HIS
2	BG	61	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	BG	88	HIS
2	BG	91	GLN
2	BG	283	HIS
2	BG	329	ASN
3	BH	191	GLN
3	BH	256	ASN
2	BI	8	HIS
2	BI	88	HIS
2	BI	101	ASN
2	BI	283	HIS
2	BI	285	GLN
5	C2	134	GLN
5	C3	134	GLN
3	CF	334	GLN
3	CF	335	ASN
2	CG	216	ASN
2	CG	226	ASN
2	CG	285	GLN
2	CG	329	ASN
3	CH	14	ASN
2	CI	329	ASN
2	CI	393	HIS
3	CJ	8	GLN
3	CJ	11	GLN
3	CJ	15	GLN
5	Cb	327	ASN
5	Cb	446	GLN
5	Cc	134	GLN
6	D3	442	GLN
6	D4	400	GLN
6	D8	243	HIS
6	D8	435	ASN
6	D8	447	GLN
3	DD	6	HIS
3	DD	14	ASN
3	DD	15	GLN
3	DD	195	ASN
3	DD	247	ASN
3	DD	280	GLN
2	DE	329	ASN
3	DF	8	GLN
3	DF	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	DG	61	HIS
2	DG	283	HIS
3	DH	6	HIS
3	DH	15	GLN
3	ED	11	GLN
3	ED	426	GLN
2	EE	88	HIS
2	EE	283	HIS
3	EF	15	GLN
3	EF	226	ASN
3	EF	245	GLN
2	EG	61	HIS
2	EG	91	GLN
2	EG	285	GLN
2	EG	329	ASN
3	EH	426	GLN
8	F2	214	ASN
8	F2	266	ASN
8	F2	360	GLN
8	F2	393	GLN
8	F2	428	GLN
8	F2	442	GLN
8	F3	132	HIS
8	F3	133	GLN
8	F3	266	ASN
8	F6	141	ASN
8	F6	239	GLN
8	F6	243	ASN
3	FD	14	ASN
3	FD	43	GLN
3	FD	423	GLN
3	FF	11	GLN
3	FF	291	GLN
3	FF	292	GLN
3	FF	414	ASN
2	FG	258	ASN
2	FG	285	GLN
2	FG	300	ASN
3	FH	11	GLN
3	FH	15	GLN
8	Fb	239	GLN
8	Fb	243	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	F1	442	GLN
9	G1	214	GLN
9	G1	458	ASN
9	G2	202	ASN
9	G2	214	GLN
10	G5	25	HIS
3	GD	6	HIS
3	GD	11	GLN
3	GD	15	GLN
3	GD	52	ASN
3	GD	245	GLN
3	GD	292	GLN
2	GE	176	GLN
2	GE	258	ASN
3	GF	8	GLN
3	GF	190	HIS
3	GF	414	ASN
3	GF	416	ASN
3	GF	423	GLN
2	GG	88	HIS
2	GG	228	ASN
2	GG	285	GLN
2	GG	393	HIS
3	GH	6	HIS
3	GH	11	GLN
3	GH	105	HIS
2	GI	228	ASN
11	H3	15	HIS
11	H3	33	ASN
11	H4	41	GLN
11	H4	214	GLN
11	H4	242	GLN
3	HD	279	GLN
3	HD	416	ASN
2	HE	8	HIS
2	HE	61	HIS
2	HE	88	HIS
2	HE	283	HIS
2	HE	393	HIS
3	HF	6	HIS
3	HF	8	GLN
3	HF	15	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	HF	370	ASN
3	HF	426	GLN
2	HG	61	HIS
2	HG	256	GLN
2	HG	283	HIS
2	HG	285	GLN
2	HI	228	ASN
2	HI	285	GLN
2	HI	329	ASN
2	IE	8	HIS
2	IE	102	ASN
2	IE	139	HIS
2	IE	228	ASN
2	IE	393	HIS
3	IF	8	GLN
3	IF	105	HIS
3	IF	370	ASN
2	IG	285	GLN
2	IG	329	ASN
2	IG	356	ASN
2	IG	380	ASN
2	II	228	ASN
13	J3	92	HIS
3	JD	8	GLN
3	JD	14	ASN
3	JD	15	GLN
2	JE	8	HIS
2	JE	61	HIS
2	JE	91	GLN
3	JF	6	HIS
3	JF	226	ASN
2	JG	61	HIS
2	JG	91	GLN
2	JG	406	HIS
3	JH	8	GLN
3	JH	190	HIS
3	JH	334	GLN
14	K2	330	ASN
14	K2	338	GLN
14	K3	467	GLN
14	K3	478	GLN
14	K4	129	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	KD	15	GLN
3	KD	43	GLN
3	KD	245	GLN
3	KD	256	ASN
3	KD	370	ASN
3	KD	426	GLN
2	KE	101	ASN
2	KE	285	GLN
2	KE	342	GLN
3	KF	6	HIS
3	KF	8	GLN
3	KF	134	GLN
3	KF	195	ASN
3	KF	256	ASN
2	KG	256	GLN
2	KG	356	ASN
2	KG	393	HIS
3	KH	256	ASN
3	KH	292	GLN
2	KI	61	HIS
2	KI	186	ASN
15	L2	236	GLN
3	LD	8	GLN
3	LD	11	GLN
3	LD	227	HIS
3	LD	256	ASN
3	LD	426	GLN
2	LE	101	ASN
2	LE	329	ASN
2	LE	380	ASN
3	LF	8	GLN
3	LF	14	ASN
3	LF	15	GLN
3	LF	280	GLN
3	LF	426	GLN
2	LG	406	HIS
3	LH	14	ASN
3	LH	15	GLN
3	LH	190	HIS
16	M2	70	ASN
16	M2	73	GLN
2	ME	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	ME	228	ASN
3	MF	6	HIS
3	MF	245	GLN
3	MF	329	GLN
2	MG	8	HIS
2	MG	61	HIS
2	MG	88	HIS
3	MH	6	HIS
3	MH	280	GLN
3	MH	384	GLN
3	MH	426	GLN
2	MI	88	HIS
2	MI	283	HIS
3	ND	11	GLN
2	NE	88	HIS
3	NF	292	GLN
3	NF	396	HIS
3	NF	426	GLN
2	NG	133	GLN
2	NG	139	HIS
2	NG	176	GLN
2	NG	233	GLN
2	NG	393	HIS
3	NH	15	GLN
3	NH	190	HIS
3	NH	226	ASN
2	NI	139	HIS
3	OD	6	HIS
3	OD	28	HIS
3	OD	423	GLN
2	OE	8	HIS
2	OE	88	HIS
2	OE	342	GLN
2	OE	372	GLN
3	OF	6	HIS
3	OF	291	GLN
3	OF	370	ASN
3	OF	423	GLN
2	OG	356	ASN
3	OH	8	GLN
3	OH	256	ASN
3	OH	292	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	OH	423	GLN
3	OH	426	GLN
2	OI	88	HIS
2	OI	91	GLN
19	P1	200	GLN
19	P1	304	GLN
19	P1	318	ASN
19	P1	331	HIS
19	P1	497	GLN
19	P1	565	HIS
19	P2	50	GLN
19	P2	304	GLN
19	P2	497	GLN
19	P2	549	ASN
19	P2	581	HIS
19	P2	599	ASN
2	PE	61	HIS
2	PE	233	GLN
2	PE	258	ASN
2	PE	285	GLN
3	PF	11	GLN
3	PF	195	ASN
3	PF	292	GLN
3	PF	423	GLN
2	PG	283	HIS
3	PH	11	GLN
3	PH	195	ASN
3	PH	280	GLN
3	PH	414	ASN
3	PH	423	GLN
3	PH	426	GLN
2	PI	61	HIS
2	PI	88	HIS
2	PI	285	GLN
20	Q1	1381	GLN
2	QE	228	ASN
2	QE	233	GLN
2	QE	258	ASN
2	QE	329	ASN
3	QF	190	HIS
3	QF	414	ASN
3	QF	424	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	QG	61	HIS
2	QG	88	HIS
2	QG	233	GLN
2	QG	283	HIS
3	QH	423	GLN
2	QI	283	HIS
2	QI	285	GLN
2	QI	393	HIS
2	QI	406	HIS
21	R2	124	ASN
2	RE	300	ASN
3	RF	414	ASN
2	RG	91	GLN
2	RG	285	GLN
2	RG	329	ASN
3	RH	6	HIS
3	RH	8	GLN
3	RH	184	ASN
3	RH	370	ASN
3	RH	424	GLN
2	RI	101	ASN
2	RI	233	GLN
3	RJ	384	GLN
3	RJ	423	GLN
3	RJ	424	GLN
2	SE	233	GLN
2	SE	283	HIS
2	SE	329	ASN
3	SF	15	GLN
3	SF	191	GLN
3	SF	245	GLN
3	SF	256	ASN
3	SF	292	GLN
3	SF	426	GLN
2	SG	88	HIS
2	SG	283	HIS
2	SG	358	GLN
3	SH	11	GLN
3	SH	89	ASN
3	SH	195	ASN
3	SH	279	GLN
3	SH	414	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	SI	8	HIS
2	SI	61	HIS
2	SI	283	HIS
2	SI	329	ASN
3	SJ	191	GLN
3	SJ	424	GLN
3	TF	48	ASN
3	TF	370	ASN
3	TF	423	GLN
2	TG	8	HIS
2	TG	88	HIS
2	TG	102	ASN
2	TG	283	HIS
3	TH	424	GLN
3	TH	426	GLN
2	TI	11	GLN
2	TI	61	HIS
3	TJ	424	GLN
3	UD	190	HIS
3	UD	226	ASN
3	UD	245	GLN
3	UD	370	ASN
2	UE	8	HIS
2	UE	329	ASN
3	UF	11	GLN
3	UF	43	GLN
3	UF	195	ASN
3	UF	423	GLN
2	UG	8	HIS
2	UG	228	ASN
2	UG	283	HIS
3	UH	6	HIS
3	UH	8	GLN
3	UH	11	GLN
3	UH	43	GLN
3	UH	190	HIS
3	UH	414	ASN
3	VD	8	GLN
3	VD	105	HIS
3	VD	190	HIS
3	VD	280	GLN
2	VE	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	VE	233	GLN
2	VE	285	GLN
2	VE	329	ASN
3	VF	8	GLN
3	VF	15	GLN
3	VF	190	HIS
3	VF	292	GLN
3	VF	416	ASN
3	VF	423	GLN
3	VF	424	GLN
2	VG	61	HIS
2	VG	88	HIS
2	VG	258	ASN
2	VG	329	ASN
2	VG	358	GLN
3	VH	105	HIS
2	WE	35	GLN
2	WE	329	ASN
3	WF	11	GLN
3	WF	15	GLN
3	WF	105	HIS
3	WF	280	GLN
2	WG	107	HIS
2	WG	258	ASN
2	WG	300	ASN
3	WH	11	GLN
3	WH	37	HIS
3	WH	184	ASN
2	WI	8	HIS
2	WI	35	GLN
2	WI	329	ASN
2	WI	342	GLN
2	WI	358	GLN
22	XC	33	HIS
22	XC	82	ASN
22	XC	107	ASN
22	XE	33	HIS
23	XJ	210	GLN
23	XK	199	GLN
23	XK	200	GLN
23	XK	210	GLN
24	YI	50	GLN

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Mol	Chain	Res	Type
24	YI	81	GLN
24	YJ	20	GLN
24	YL	87	HIS
24	YM	20	GLN
24	YM	21	GLN
24	YM	35	ASN
24	YM	87	HIS
24	YM	133	HIS
24	YN	13	GLN
24	YN	20	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

123 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	GTP	SG	501	3,2	26,34,34	1.04	1 (3%)	32,54,54	1.87	6 (18%)
25	GTP	KF	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.47	6 (18%)
25	GTP	SI	501	3,2	26,34,34	1.03	1 (3%)	32,54,54	1.50	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	GTP	AF	501	3	26,34,34	1.28	2 (7%)	32,54,54	1.63	5 (15%)
25	GTP	LG	501	3,2	26,34,34	1.13	2 (7%)	32,54,54	1.59	8 (25%)
25	GTP	SH	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.48	7 (21%)
25	GTP	CI	501	2	26,34,34	1.22	2 (7%)	32,54,54	1.70	8 (25%)
25	GTP	OD	501	3	26,34,34	1.14	2 (7%)	32,54,54	1.53	8 (25%)
25	GTP	EF	501	3	26,34,34	1.20	2 (7%)	32,54,54	1.57	6 (18%)
25	GTP	II	501	3,2	26,34,34	1.05	1 (3%)	32,54,54	1.53	6 (18%)
25	GTP	BF	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.36	5 (15%)
25	GTP	SJ	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.42	7 (21%)
25	GTP	LE	501	3,2	26,34,34	1.39	4 (15%)	32,54,54	1.72	7 (21%)
25	GTP	JH	501	3	26,34,34	1.20	2 (7%)	32,54,54	1.68	6 (18%)
25	GTP	NH	501	3	26,34,34	1.25	2 (7%)	32,54,54	1.54	6 (18%)
25	GTP	NE	501	3,2	26,34,34	1.04	1 (3%)	32,54,54	1.55	6 (18%)
25	GTP	GE	501	2	26,34,34	1.82	4 (15%)	32,54,54	1.90	7 (21%)
25	GTP	WG	501	3,2	26,34,34	1.01	1 (3%)	32,54,54	1.54	7 (21%)
25	GTP	GF	501	3	26,34,34	1.23	2 (7%)	32,54,54	1.53	8 (25%)
25	GTP	AE	501	2	26,34,34	0.99	1 (3%)	32,54,54	1.72	8 (25%)
25	GTP	VE	501	3,2	26,34,34	1.03	1 (3%)	32,54,54	1.53	8 (25%)
25	GTP	KI	501	3,2	26,34,34	1.13	2 (7%)	32,54,54	1.67	7 (21%)
25	GTP	LF	501	3	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
25	GTP	WE	501	2	26,34,34	1.13	1 (3%)	32,54,54	1.43	6 (18%)
25	GTP	DF	501	3	26,34,34	1.23	2 (7%)	32,54,54	1.48	6 (18%)
25	GTP	IG	501	3,2	26,34,34	1.15	1 (3%)	32,54,54	1.50	5 (15%)
25	GTP	TI	501	3,2	26,34,34	1.04	2 (7%)	32,54,54	1.53	7 (21%)
25	GTP	RF	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.42	7 (21%)
25	GTP	QG	501	3,2	26,34,34	1.01	2 (7%)	32,54,54	1.57	6 (18%)
25	GTP	NF	501	3	26,34,34	1.24	2 (7%)	32,54,54	1.84	7 (21%)
25	GTP	CG	501	3,2	26,34,34	1.09	2 (7%)	32,54,54	2.02	7 (21%)
25	GTP	QE	501	2	26,34,34	1.00	1 (3%)	32,54,54	1.82	8 (25%)
25	GTP	WH	501	3	26,34,34	1.17	2 (7%)	32,54,54	1.44	7 (21%)
25	GTP	KH	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.50	8 (25%)
25	GTP	HI	501	3,2	26,34,34	1.10	1 (3%)	32,54,54	3.38	11 (34%)
25	GTP	JE	501	3,2	26,34,34	1.07	1 (3%)	32,54,54	1.46	8 (25%)
25	GTP	RE	501	2	26,34,34	1.08	2 (7%)	32,54,54	1.69	6 (18%)
25	GTP	OH	501	3	26,34,34	1.15	2 (7%)	32,54,54	1.46	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	GTP	FF	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.71	9 (28%)
25	GTP	DD	501	3	26,34,34	1.33	2 (7%)	32,54,54	1.66	7 (21%)
25	GTP	EE	501	2	26,34,34	1.23	3 (11%)	32,54,54	1.18	3 (9%)
25	GTP	GD	501	3	26,34,34	1.21	2 (7%)	32,54,54	1.55	5 (15%)
25	GTP	LH	501	3	26,34,34	1.20	2 (7%)	32,54,54	1.56	7 (21%)
25	GTP	SF	501	3	26,34,34	1.25	2 (7%)	32,54,54	1.55	6 (18%)
25	GTP	HG	501	3,2	26,34,34	1.51	4 (15%)	32,54,54	1.83	9 (28%)
25	GTP	ND	501	3	26,34,34	1.61	3 (11%)	32,54,54	1.96	7 (21%)
25	GTP	WF	501	3	26,34,34	1.25	2 (7%)	32,54,54	1.66	9 (28%)
25	GTP	VH	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.51	7 (21%)
25	GTP	UD	501	3	26,34,34	1.11	2 (7%)	32,54,54	1.47	7 (21%)
25	GTP	EG	501	3,2	26,34,34	1.38	3 (11%)	32,54,54	1.96	6 (18%)
25	GTP	NG	501	3,2	26,34,34	1.03	2 (7%)	32,54,54	1.77	7 (21%)
25	GTP	UG	501	3,2	26,34,34	1.07	1 (3%)	32,54,54	1.59	6 (18%)
25	GTP	PF	501	3	26,34,34	1.21	2 (7%)	32,54,54	1.48	8 (25%)
25	GTP	UH	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.48	6 (18%)
25	GTP	OE	501	3,2	26,34,34	1.04	2 (7%)	32,54,54	1.55	7 (21%)
25	GTP	RH	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.54	8 (25%)
25	GTP	JD	501	3	26,34,34	2.08	5 (19%)	32,54,54	2.35	7 (21%)
25	GTP	CH	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.60	7 (21%)
25	GTP	RI	501	3,2	26,34,34	1.13	2 (7%)	32,54,54	1.45	6 (18%)
25	GTP	PE	501	2	26,34,34	1.13	2 (7%)	32,54,54	1.55	10 (31%)
25	GTP	TJ	501	3	26,34,34	1.14	2 (7%)	32,54,54	1.43	7 (21%)
25	GTP	FH	501	3	26,34,34	1.27	2 (7%)	32,54,54	1.55	8 (25%)
25	GTP	TG	501	3,2	26,34,34	1.07	1 (3%)	32,54,54	1.51	7 (21%)
25	GTP	MG	501	3,2	26,34,34	1.11	1 (3%)	32,54,54	1.68	8 (25%)
25	GTP	VF	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.43	7 (21%)
25	GTP	QF	501	3	26,34,34	1.10	2 (7%)	32,54,54	1.56	7 (21%)
25	GTP	IH	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.54	7 (21%)
25	GTP	DH	501	3	26,34,34	1.23	2 (7%)	32,54,54	1.75	8 (25%)
25	GTP	LD	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.37	6 (18%)
25	GTP	KD	501	3	26,34,34	1.18	2 (7%)	32,54,54	1.60	8 (25%)
25	GTP	FE	501	2	26,34,34	1.14	2 (7%)	32,54,54	1.90	9 (28%)
25	GTP	PG	501	3,2	26,34,34	1.02	2 (7%)	32,54,54	1.49	6 (18%)
25	GTP	VG	501	3,2	26,34,34	1.00	1 (3%)	32,54,54	1.40	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	GTP	RJ	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.54	8 (25%)
25	GTP	BH	501	3	26,34,34	1.21	2 (7%)	32,54,54	1.47	7 (21%)
25	GTP	ME	501	2	26,34,34	1.07	1 (3%)	32,54,54	1.35	6 (18%)
25	GTP	NI	501	3,2	26,34,34	1.09	1 (3%)	32,54,54	1.64	7 (21%)
25	GTP	SE	501	2	26,34,34	0.95	2 (7%)	32,54,54	1.47	6 (18%)
25	GTP	EH	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.50	8 (25%)
25	GTP	MI	501	3,2	26,34,34	1.08	1 (3%)	32,54,54	1.58	7 (21%)
25	GTP	IE	501	2	26,34,34	0.97	1 (3%)	32,54,54	1.70	7 (21%)
25	GTP	TF	501	3	26,34,34	1.15	2 (7%)	32,54,54	1.45	7 (21%)
25	GTP	MF	501	3	26,34,34	1.25	2 (7%)	32,54,54	1.65	8 (25%)
25	GTP	BE	501	2	26,34,34	1.21	2 (7%)	32,54,54	1.63	7 (21%)
25	GTP	JG	501	3,2	26,34,34	0.96	1 (3%)	32,54,54	1.59	7 (21%)
25	GTP	AI	501	3,2	26,34,34	1.13	1 (3%)	32,54,54	1.60	6 (18%)
25	GTP	IF	501	3	26,34,34	1.22	2 (7%)	32,54,54	1.57	9 (28%)
25	GTP	UF	501	3	26,34,34	1.17	2 (7%)	32,54,54	1.44	6 (18%)
25	GTP	GH	502	3,2	26,34,34	1.11	2 (7%)	32,54,54	1.64	7 (21%)
25	GTP	KE	501	3,2	26,34,34	1.07	1 (3%)	32,54,54	1.53	7 (21%)
25	GTP	JF	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.54	7 (21%)
25	GTP	LI	501	3,2	26,34,34	1.16	3 (11%)	32,54,54	1.63	8 (25%)
25	GTP	RG	501	3,2	26,34,34	0.96	2 (7%)	32,54,54	1.64	6 (18%)
25	GTP	QH	501	3	26,34,34	1.17	2 (7%)	32,54,54	1.40	7 (21%)
25	GTP	OF	501	3	26,34,34	1.28	2 (7%)	32,54,54	1.66	9 (28%)
25	GTP	KG	501	3,2	26,34,34	1.17	3 (11%)	32,54,54	1.99	6 (18%)
25	GTP	MH	501	3	26,34,34	1.50	2 (7%)	32,54,54	2.21	9 (28%)
25	GTP	TH	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.45	7 (21%)
25	GTP	VD	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.46	7 (21%)
25	GTP	PI	501	3,2	26,34,34	1.13	2 (7%)	32,54,54	1.74	8 (25%)
25	GTP	HH	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.58	8 (25%)
25	GTP	CJ	501	3	26,34,34	1.76	3 (11%)	32,54,54	1.89	6 (18%)
25	GTP	PH	501	3	26,34,34	1.14	2 (7%)	32,54,54	1.41	7 (21%)
25	GTP	WI	501	3,2	26,34,34	1.08	1 (3%)	32,54,54	1.62	6 (18%)
25	GTP	UE	501	3,2	26,34,34	1.06	2 (7%)	32,54,54	1.52	7 (21%)
25	GTP	AH	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.49	4 (12%)
25	GTP	ED	501	3	26,34,34	1.80	3 (11%)	32,54,54	1.93	8 (25%)
25	GTP	AG	501	3,2	26,34,34	1.10	2 (7%)	32,54,54	1.49	8 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	GTP	HE	501	3,2	26,34,34	1.18	2 (7%)	32,54,54	1.60	7 (21%)
25	GTP	OI	501	3,2	26,34,34	1.07	1 (3%)	32,54,54	1.45	6 (18%)
25	GTP	GH	501	3	26,34,34	1.19	2 (7%)	32,54,54	1.44	7 (21%)
25	GTP	HF	501	3	26,34,34	1.52	4 (15%)	32,54,54	1.85	8 (25%)
25	GTP	BI	501	3,2	26,34,34	1.02	1 (3%)	32,54,54	1.40	7 (21%)
25	GTP	HD	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.45	6 (18%)
25	GTP	BG	501	3,2	26,34,34	1.13	2 (7%)	32,54,54	1.73	9 (28%)
25	GTP	OG	501	3,2	26,34,34	1.01	1 (3%)	32,54,54	1.47	6 (18%)
25	GTP	QI	501	3,2	26,34,34	1.04	1 (3%)	32,54,54	1.57	8 (25%)
25	GTP	FD	501	3	26,34,34	1.16	2 (7%)	32,54,54	1.41	7 (21%)
25	GTP	GG	501	3,2	26,34,34	0.93	1 (3%)	32,54,54	1.87	9 (28%)
25	GTP	FF	502	3,2	26,34,34	1.26	1 (3%)	32,54,54	1.62	5 (15%)
25	GTP	CF	501	3	26,34,34	1.20	2 (7%)	32,54,54	1.43	8 (25%)
25	GTP	DG	501	3,2	26,34,34	1.23	2 (7%)	32,54,54	1.25	3 (9%)
25	GTP	DE	501	3,2	26,34,34	1.23	2 (7%)	32,54,54	2.10	7 (21%)

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
25	GTP	SG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	KF	501	3	-	9/18/38/38	0/3/3/3
25	GTP	SI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	AF	501	3	-	6/18/38/38	0/3/3/3
25	GTP	LG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	SH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	CI	501	2	-	6/18/38/38	0/3/3/3
25	GTP	OD	501	3	-	5/18/38/38	0/3/3/3
25	GTP	EF	501	3	-	6/18/38/38	0/3/3/3
25	GTP	II	501	3,2	-	10/18/38/38	0/3/3/3
25	GTP	BF	501	3	-	10/18/38/38	0/3/3/3
25	GTP	SJ	501	3	-	1/18/38/38	0/3/3/3
25	GTP	LE	501	3,2	-	8/18/38/38	0/3/3/3
25	GTP	JH	501	3	-	0/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	GTP	NH	501	3	-	5/18/38/38	0/3/3/3
25	GTP	NE	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	GE	501	2	-	6/18/38/38	0/3/3/3
25	GTP	WG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	GF	501	3	-	7/18/38/38	0/3/3/3
25	GTP	AE	501	2	-	5/18/38/38	0/3/3/3
25	GTP	VE	501	3,2	-	4/18/38/38	0/3/3/3
25	GTP	KI	501	3,2	-	4/18/38/38	0/3/3/3
25	GTP	LF	501	3	-	4/18/38/38	0/3/3/3
25	GTP	WE	501	2	-	6/18/38/38	0/3/3/3
25	GTP	DF	501	3	-	6/18/38/38	0/3/3/3
25	GTP	IG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	TI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	RF	501	3	-	5/18/38/38	0/3/3/3
25	GTP	QG	501	3,2	-	7/18/38/38	0/3/3/3
25	GTP	NF	501	3	-	4/18/38/38	0/3/3/3
25	GTP	CG	501	3,2	-	8/18/38/38	0/3/3/3
25	GTP	QE	501	2	-	4/18/38/38	0/3/3/3
25	GTP	WH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	KH	501	3	-	10/18/38/38	0/3/3/3
25	GTP	HI	501	3,2	-	4/18/38/38	0/3/3/3
25	GTP	JE	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	RE	501	2	-	6/18/38/38	0/3/3/3
25	GTP	OH	501	3	-	5/18/38/38	0/3/3/3
25	GTP	FF	501	3	-	2/18/38/38	0/3/3/3
25	GTP	DD	501	3	-	6/18/38/38	0/3/3/3
25	GTP	EE	501	2	-	9/18/38/38	0/3/3/3
25	GTP	GD	501	3	-	5/18/38/38	0/3/3/3
25	GTP	LH	501	3	-	3/18/38/38	0/3/3/3
25	GTP	SF	501	3	-	4/18/38/38	0/3/3/3
25	GTP	HG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	ND	501	3	-	8/18/38/38	0/3/3/3
25	GTP	WF	501	3	-	0/18/38/38	0/3/3/3
25	GTP	VH	501	3	-	3/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	GTP	UD	501	3	-	5/18/38/38	0/3/3/3
25	GTP	EG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	NG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	UG	501	3,2	-	7/18/38/38	0/3/3/3
25	GTP	PF	501	3	-	0/18/38/38	0/3/3/3
25	GTP	UH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	OE	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	RH	501	3	-	4/18/38/38	0/3/3/3
25	GTP	JD	501	3	-	10/18/38/38	0/3/3/3
25	GTP	CH	501	3	-	7/18/38/38	0/3/3/3
25	GTP	RI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	PE	501	2	-	4/18/38/38	0/3/3/3
25	GTP	TJ	501	3	-	2/18/38/38	0/3/3/3
25	GTP	FH	501	3	-	8/18/38/38	0/3/3/3
25	GTP	TG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	MG	501	3,2	-	8/18/38/38	0/3/3/3
25	GTP	VF	501	3	-	7/18/38/38	0/3/3/3
25	GTP	QF	501	3	-	4/18/38/38	0/3/3/3
25	GTP	IH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	DH	501	3	-	0/18/38/38	0/3/3/3
25	GTP	LD	501	3	-	2/18/38/38	0/3/3/3
25	GTP	KD	501	3	-	1/18/38/38	0/3/3/3
25	GTP	FE	501	2	-	8/18/38/38	0/3/3/3
25	GTP	PG	501	3,2	-	7/18/38/38	0/3/3/3
25	GTP	VG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	RJ	501	3	-	4/18/38/38	0/3/3/3
25	GTP	BH	501	3	-	8/18/38/38	0/3/3/3
25	GTP	ME	501	2	-	9/18/38/38	0/3/3/3
25	GTP	NI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	SE	501	2	-	4/18/38/38	0/3/3/3
25	GTP	EH	501	3	-	10/18/38/38	0/3/3/3
25	GTP	MI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	IE	501	2	-	7/18/38/38	0/3/3/3
25	GTP	TF	501	3	-	3/18/38/38	0/3/3/3
25	GTP	MF	501	3	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	GTP	BE	501	2	-	2/18/38/38	0/3/3/3
25	GTP	JG	501	3,2	-	10/18/38/38	0/3/3/3
25	GTP	AI	501	3,2	-	7/18/38/38	0/3/3/3
25	GTP	IF	501	3	-	3/18/38/38	0/3/3/3
25	GTP	UF	501	3	-	5/18/38/38	0/3/3/3
25	GTP	GH	502	3,2	-	9/18/38/38	0/3/3/3
25	GTP	KE	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	JF	501	3	-	10/18/38/38	0/3/3/3
25	GTP	LI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	RG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	QH	501	3	-	8/18/38/38	0/3/3/3
25	GTP	OF	501	3	-	5/18/38/38	0/3/3/3
25	GTP	KG	501	3,2	-	9/18/38/38	0/3/3/3
25	GTP	MH	501	3	-	4/18/38/38	0/3/3/3
25	GTP	TH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	VD	501	3	-	5/18/38/38	0/3/3/3
25	GTP	PI	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	HH	501	3	-	7/18/38/38	0/3/3/3
25	GTP	CJ	501	3	-	4/18/38/38	0/3/3/3
25	GTP	PH	501	3	-	2/18/38/38	0/3/3/3
25	GTP	WI	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	UE	501	3,2	-	4/18/38/38	0/3/3/3
25	GTP	AH	501	3	-	8/18/38/38	0/3/3/3
25	GTP	ED	501	3	-	2/18/38/38	0/3/3/3
25	GTP	AG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	HE	501	3,2	-	3/18/38/38	0/3/3/3
25	GTP	OI	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	GH	501	3	-	6/18/38/38	0/3/3/3
25	GTP	HF	501	3	-	2/18/38/38	0/3/3/3
25	GTP	BI	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	HD	501	3	-	3/18/38/38	0/3/3/3
25	GTP	BG	501	3,2	-	5/18/38/38	0/3/3/3
25	GTP	OG	501	3,2	-	6/18/38/38	0/3/3/3
25	GTP	QI	501	3,2	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	GTP	FD	501	3	-	3/18/38/38	0/3/3/3
25	GTP	GG	501	3,2	-	7/18/38/38	0/3/3/3
25	GTP	FF	502	3,2	-	9/18/38/38	0/3/3/3
25	GTP	CF	501	3	-	4/18/38/38	0/3/3/3
25	GTP	DG	501	3,2	-	2/18/38/38	0/3/3/3
25	GTP	DE	501	3,2	-	3/18/38/38	0/3/3/3

All (234) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	JD	501	GTP	C2-N2	7.05	1.50	1.34
25	GE	501	GTP	C5-C6	-6.51	1.34	1.47
25	ED	501	GTP	C2-N3	5.74	1.47	1.33
25	HG	501	GTP	C5-C6	-5.40	1.36	1.47
25	ND	501	GTP	C2-N3	5.20	1.45	1.33
25	CJ	501	GTP	C5-C6	-4.85	1.37	1.47
25	MH	501	GTP	C2-N3	4.83	1.44	1.33
25	CJ	501	GTP	C2-N2	4.70	1.45	1.34
25	CJ	501	GTP	C2-N3	4.67	1.44	1.33
25	MF	501	GTP	C5-C6	-4.63	1.38	1.47
25	MH	501	GTP	C5-C6	-4.62	1.38	1.47
25	AF	501	GTP	C5-C6	-4.46	1.38	1.47
25	GF	501	GTP	C5-C6	-4.44	1.38	1.47
25	ED	501	GTP	C5-C6	-4.39	1.38	1.47
25	RF	501	GTP	C5-C6	-4.39	1.38	1.47
25	IF	501	GTP	C5-C6	-4.38	1.38	1.47
25	BF	501	GTP	C5-C6	-4.38	1.38	1.47
25	BH	501	GTP	C5-C6	-4.37	1.38	1.47
25	KD	501	GTP	C5-C6	-4.34	1.38	1.47
25	SF	501	GTP	C5-C6	-4.34	1.38	1.47
25	SH	501	GTP	C5-C6	-4.34	1.38	1.47
25	CF	501	GTP	C5-C6	-4.33	1.38	1.47
25	JF	501	GTP	C5-C6	-4.32	1.38	1.47
25	LH	501	GTP	C5-C6	-4.32	1.38	1.47
25	SJ	501	GTP	C5-C6	-4.32	1.38	1.47
25	VF	501	GTP	C5-C6	-4.31	1.38	1.47
25	GH	501	GTP	C5-C6	-4.31	1.38	1.47
25	DD	501	GTP	C5-C6	-4.31	1.38	1.47
25	FH	501	GTP	C5-C6	-4.30	1.38	1.47
25	LF	501	GTP	C5-C6	-4.30	1.38	1.47
25	WH	501	GTP	C5-C6	-4.29	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	NH	501	GTP	C5-C6	-4.29	1.38	1.47
25	PF	501	GTP	C5-C6	-4.29	1.38	1.47
25	RH	501	GTP	C5-C6	-4.28	1.38	1.47
25	EF	501	GTP	C5-C6	-4.28	1.38	1.47
25	QH	501	GTP	C5-C6	-4.28	1.38	1.47
25	KF	501	GTP	C5-C6	-4.27	1.38	1.47
25	VD	501	GTP	C5-C6	-4.27	1.38	1.47
25	UF	501	GTP	C5-C6	-4.26	1.38	1.47
25	WF	501	GTP	C5-C6	-4.25	1.38	1.47
25	PH	501	GTP	C5-C6	-4.24	1.38	1.47
25	HD	501	GTP	C5-C6	-4.24	1.38	1.47
25	JH	501	GTP	C5-C6	-4.24	1.38	1.47
25	JD	501	GTP	C5-C6	-4.23	1.38	1.47
25	AH	501	GTP	C5-C6	-4.23	1.38	1.47
25	TJ	501	GTP	C5-C6	-4.22	1.38	1.47
25	EH	501	GTP	C5-C6	-4.22	1.38	1.47
25	UH	501	GTP	C5-C6	-4.21	1.38	1.47
25	TF	501	GTP	C5-C6	-4.21	1.38	1.47
25	VH	501	GTP	C5-C6	-4.21	1.38	1.47
25	TH	501	GTP	C5-C6	-4.21	1.38	1.47
25	KH	501	GTP	C5-C6	-4.20	1.38	1.47
25	NF	501	GTP	C5-C6	-4.20	1.38	1.47
25	OH	501	GTP	C5-C6	-4.18	1.38	1.47
25	HE	501	GTP	C5-C6	-4.18	1.38	1.47
25	HH	501	GTP	C5-C6	-4.18	1.38	1.47
25	LD	501	GTP	C5-C6	-4.18	1.38	1.47
25	FF	501	GTP	C5-C6	-4.17	1.38	1.47
25	DF	501	GTP	C5-C6	-4.16	1.39	1.47
25	FD	501	GTP	C5-C6	-4.14	1.39	1.47
25	OD	501	GTP	C5-C6	-4.14	1.39	1.47
25	RJ	501	GTP	C5-C6	-4.13	1.39	1.47
25	DH	501	GTP	C5-C6	-4.13	1.39	1.47
25	GD	501	GTP	C5-C6	-4.12	1.39	1.47
25	IH	501	GTP	C5-C6	-4.06	1.39	1.47
25	CH	501	GTP	C5-C6	-4.05	1.39	1.47
25	OF	501	GTP	C5-C6	-3.99	1.39	1.47
25	ND	501	GTP	C5-C6	-3.98	1.39	1.47
25	ED	501	GTP	C2-N2	3.97	1.43	1.34
25	FF	502	GTP	O6-C6	3.97	1.31	1.23
25	UD	501	GTP	C5-C6	-3.95	1.39	1.47
25	DE	501	GTP	C5-C6	-3.95	1.39	1.47
25	EG	501	GTP	O6-C6	3.93	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	HF	501	GTP	C2-N2	3.92	1.43	1.34
25	IG	501	GTP	C5-C6	-3.90	1.39	1.47
25	RI	501	GTP	C5-C6	-3.89	1.39	1.47
25	LI	501	GTP	C5-C6	-3.84	1.39	1.47
25	DG	501	GTP	C5-C6	-3.81	1.39	1.47
25	QF	501	GTP	C5-C6	-3.78	1.39	1.47
25	DD	501	GTP	C2-N3	3.76	1.42	1.33
25	KI	501	GTP	C5-C6	-3.76	1.39	1.47
25	JD	501	GTP	C2-N3	3.76	1.42	1.33
25	PE	501	GTP	C5-C6	-3.75	1.39	1.47
25	BG	501	GTP	C5-C6	-3.67	1.39	1.47
25	GH	502	GTP	C5-C6	-3.67	1.40	1.47
25	OF	501	GTP	C2-N3	3.62	1.42	1.33
25	AG	501	GTP	C5-C6	-3.60	1.40	1.47
25	NF	501	GTP	C2-N3	3.48	1.41	1.33
25	LE	501	GTP	O6-C6	3.47	1.30	1.23
25	HF	501	GTP	C2-N3	3.46	1.41	1.33
25	WF	501	GTP	C2-N3	3.46	1.41	1.33
25	JD	501	GTP	O4'-C1'	3.44	1.45	1.41
25	PI	501	GTP	C5-C6	-3.43	1.40	1.47
25	WE	501	GTP	C5-C6	-3.41	1.40	1.47
25	FH	501	GTP	C2-N3	3.41	1.41	1.33
25	NI	501	GTP	C5-C6	-3.41	1.40	1.47
25	TG	501	GTP	C5-C6	-3.40	1.40	1.47
25	ND	501	GTP	C2-N2	3.38	1.42	1.34
25	TI	501	GTP	C5-C6	-3.36	1.40	1.47
25	EE	501	GTP	C5-C6	-3.34	1.40	1.47
25	OI	501	GTP	C5-C6	-3.34	1.40	1.47
25	ME	501	GTP	C5-C6	-3.28	1.40	1.47
25	PG	501	GTP	C5-C6	-3.27	1.40	1.47
25	AI	501	GTP	C5-C6	-3.24	1.40	1.47
25	OG	501	GTP	C5-C6	-3.24	1.40	1.47
25	GD	501	GTP	C2-N3	3.23	1.41	1.33
25	AF	501	GTP	C2-N3	3.23	1.41	1.33
25	BE	501	GTP	C5-C6	-3.23	1.40	1.47
25	HF	501	GTP	O4'-C1'	3.22	1.45	1.41
25	HI	501	GTP	C5-C6	-3.21	1.40	1.47
25	NH	501	GTP	C2-N3	3.20	1.40	1.33
25	MG	501	GTP	C5-C6	-3.18	1.41	1.47
25	HF	501	GTP	C5-C6	-3.17	1.41	1.47
25	VE	501	GTP	C5-C6	-3.16	1.41	1.47
25	SG	501	GTP	C5-C6	-3.16	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	RE	501	GTP	C5-C6	-3.15	1.41	1.47
25	OE	501	GTP	C5-C6	-3.12	1.41	1.47
25	GE	501	GTP	C5-C4	-3.07	1.35	1.43
25	UG	501	GTP	C5-C6	-3.07	1.41	1.47
25	II	501	GTP	C5-C6	-3.05	1.41	1.47
25	QI	501	GTP	C5-C6	-3.05	1.41	1.47
25	FF	501	GTP	C2-N3	3.03	1.40	1.33
25	PF	501	GTP	C2-N3	3.02	1.40	1.33
25	MI	501	GTP	C5-C6	-3.02	1.41	1.47
25	WG	501	GTP	C5-C6	-3.02	1.41	1.47
25	GF	501	GTP	C2-N3	3.01	1.40	1.33
25	JE	501	GTP	C5-C6	-3.00	1.41	1.47
25	HH	501	GTP	C2-N3	2.99	1.40	1.33
25	DH	501	GTP	C2-N3	2.99	1.40	1.33
25	QG	501	GTP	C5-C6	-2.98	1.41	1.47
25	KH	501	GTP	C2-N3	2.98	1.40	1.33
25	WI	501	GTP	C5-C6	-2.96	1.41	1.47
25	SI	501	GTP	C5-C6	-2.96	1.41	1.47
25	JH	501	GTP	C2-N3	2.93	1.40	1.33
25	CG	501	GTP	C5-C6	-2.93	1.41	1.47
25	GE	501	GTP	C2-N2	-2.91	1.27	1.34
25	DF	501	GTP	C2-N3	2.90	1.40	1.33
25	KE	501	GTP	C5-C6	-2.88	1.41	1.47
25	GE	501	GTP	C4-N3	-2.87	1.30	1.37
25	UE	501	GTP	C5-C6	-2.85	1.41	1.47
25	SF	501	GTP	C2-N3	2.84	1.40	1.33
25	EG	501	GTP	C5-C6	-2.83	1.41	1.47
25	LH	501	GTP	C2-N3	2.83	1.40	1.33
25	BI	501	GTP	C5-C6	-2.82	1.41	1.47
25	CH	501	GTP	C2-N3	2.82	1.40	1.33
25	FD	501	GTP	C2-N3	2.81	1.40	1.33
25	QF	501	GTP	C2-N3	2.78	1.39	1.33
25	LG	501	GTP	C5-C6	-2.78	1.41	1.47
25	IF	501	GTP	C2-N3	2.77	1.39	1.33
25	VF	501	GTP	C2-N3	2.77	1.39	1.33
25	RJ	501	GTP	C2-N3	2.76	1.39	1.33
25	IH	501	GTP	C2-N3	2.76	1.39	1.33
25	NE	501	GTP	C5-C6	-2.76	1.41	1.47
25	HG	501	GTP	C2-N3	2.76	1.39	1.33
25	UF	501	GTP	C2-N3	2.75	1.39	1.33
25	VG	501	GTP	C5-C6	-2.74	1.41	1.47
25	LF	501	GTP	C2-N3	2.72	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	AH	501	GTP	C2-N3	2.72	1.39	1.33
25	NG	501	GTP	C5-C6	-2.71	1.41	1.47
25	EH	501	GTP	C2-N3	2.70	1.39	1.33
25	JG	501	GTP	C5-C6	-2.70	1.41	1.47
25	AE	501	GTP	C5-C6	-2.70	1.41	1.47
25	QE	501	GTP	C5-C6	-2.69	1.41	1.47
25	KD	501	GTP	C2-N3	2.69	1.39	1.33
25	LE	501	GTP	C5-C6	-2.67	1.42	1.47
25	SH	501	GTP	C2-N3	2.67	1.39	1.33
25	RH	501	GTP	C2-N3	2.66	1.39	1.33
25	FE	501	GTP	C2'-C1'	-2.65	1.49	1.53
25	GH	501	GTP	C2-N3	2.63	1.39	1.33
25	WH	501	GTP	C2-N3	2.61	1.39	1.33
25	KF	501	GTP	C2-N3	2.59	1.39	1.33
25	HD	501	GTP	C2-N3	2.58	1.39	1.33
25	UH	501	GTP	C2-N3	2.58	1.39	1.33
25	IE	501	GTP	C5-C6	-2.58	1.42	1.47
25	CI	501	GTP	PG-O1G	2.57	1.58	1.50
25	VH	501	GTP	C2-N3	2.55	1.39	1.33
25	QH	501	GTP	C2-N3	2.55	1.39	1.33
25	TJ	501	GTP	C2-N3	2.55	1.39	1.33
25	LD	501	GTP	C2-N3	2.54	1.39	1.33
25	TH	501	GTP	C2-N3	2.54	1.39	1.33
25	QG	501	GTP	C2-N3	2.54	1.39	1.33
25	OD	501	GTP	C2-N3	2.53	1.39	1.33
25	CF	501	GTP	C2-N3	2.53	1.39	1.33
25	CI	501	GTP	C5-C6	-2.52	1.42	1.47
25	UD	501	GTP	C2-N3	2.51	1.39	1.33
25	RF	501	GTP	C2-N3	2.48	1.39	1.33
25	PH	501	GTP	C2-N3	2.48	1.39	1.33
25	SJ	501	GTP	C2-N3	2.46	1.39	1.33
25	HG	501	GTP	C5-C4	-2.46	1.36	1.43
25	BF	501	GTP	C2-N3	2.45	1.39	1.33
25	CG	501	GTP	C2'-C1'	-2.45	1.50	1.53
25	VD	501	GTP	C2-N3	2.45	1.39	1.33
25	JF	501	GTP	C2-N3	2.45	1.39	1.33
25	GG	501	GTP	C5-C6	-2.44	1.42	1.47
25	JD	501	GTP	C2-N1	2.44	1.43	1.37
25	DE	501	GTP	C5-C4	-2.44	1.36	1.43
25	SE	501	GTP	C5-C6	-2.43	1.42	1.47
25	EF	501	GTP	C2-N3	2.42	1.39	1.33
25	OH	501	GTP	C2-N3	2.39	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	RG	501	GTP	C5-C6	-2.39	1.42	1.47
25	MF	501	GTP	C2-N3	2.37	1.38	1.33
25	TF	501	GTP	C2-N3	2.34	1.38	1.33
25	BH	501	GTP	C2-N3	2.32	1.38	1.33
25	EG	501	GTP	O4'-C1'	2.30	1.44	1.41
25	EE	501	GTP	C8-N7	2.30	1.38	1.35
25	RE	501	GTP	C2-N3	2.30	1.38	1.33
25	PE	501	GTP	C5-C4	-2.27	1.37	1.43
25	FE	501	GTP	C5-C6	-2.25	1.42	1.47
25	NG	501	GTP	C2-N3	2.22	1.38	1.33
25	LI	501	GTP	C5-C4	-2.20	1.37	1.43
25	KG	501	GTP	C2-N3	2.19	1.38	1.33
25	EE	501	GTP	C2'-C1'	-2.19	1.50	1.53
25	KI	501	GTP	C2-N3	2.18	1.38	1.33
25	SE	501	GTP	C2-N3	2.16	1.38	1.33
25	LE	501	GTP	C2-N3	2.15	1.38	1.33
25	UE	501	GTP	C2-N3	2.14	1.38	1.33
25	BE	501	GTP	C2'-C1'	-2.13	1.50	1.53
25	GH	502	GTP	C2-N3	2.12	1.38	1.33
25	PG	501	GTP	C2-N3	2.12	1.38	1.33
25	LG	501	GTP	O6-C6	2.11	1.27	1.23
25	KG	501	GTP	O4'-C1'	2.10	1.44	1.41
25	AG	501	GTP	C2-N3	2.10	1.38	1.33
25	TI	501	GTP	C2-N3	2.08	1.38	1.33
25	BG	501	GTP	C5-C4	-2.08	1.37	1.43
25	HG	501	GTP	C2'-C1'	-2.07	1.50	1.53
25	RI	501	GTP	C2-N3	2.07	1.38	1.33
25	DG	501	GTP	PG-O1G	2.07	1.57	1.50
25	LE	501	GTP	O4'-C1'	2.06	1.44	1.41
25	PI	501	GTP	C5-C4	-2.03	1.37	1.43
25	KG	501	GTP	C5-C6	-2.03	1.43	1.47
25	RG	501	GTP	C2-N3	2.02	1.38	1.33
25	LI	501	GTP	C2-N3	2.02	1.38	1.33
25	OE	501	GTP	C2-N3	2.01	1.38	1.33
25	HE	501	GTP	C2-N3	2.01	1.38	1.33

All (860) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	HI	501	GTP	O3G-PG-O3B	-7.88	78.20	104.64
25	HI	501	GTP	O3G-PG-O2G	-7.61	78.56	107.64
25	HI	501	GTP	O3G-PG-O1G	7.40	139.64	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	JD	501	GTP	C5-C6-N1	6.85	126.05	113.95
25	CG	501	GTP	O6-C6-N1	-6.76	112.67	120.65
25	EG	501	GTP	O6-C6-N1	-6.66	112.78	120.65
25	HI	501	GTP	O2G-PG-O1G	-6.62	84.77	110.68
25	HI	501	GTP	O2G-PG-O3B	6.59	126.73	104.64
25	JD	501	GTP	C2-N1-C6	-6.19	113.70	125.10
25	FE	501	GTP	O6-C6-N1	-6.13	113.41	120.65
25	QE	501	GTP	O6-C6-N1	-6.08	113.47	120.65
25	JD	501	GTP	O6-C6-C5	-5.93	112.79	124.37
25	HF	501	GTP	C2-N1-C6	-5.86	114.31	125.10
25	GE	501	GTP	C3'-C2'-C1'	5.77	109.66	100.98
25	DE	501	GTP	O6-C6-N1	-5.71	113.91	120.65
25	SG	501	GTP	O6-C6-N1	-5.58	114.06	120.65
25	GE	501	GTP	C8-N7-C5	5.39	113.25	102.99
25	MH	501	GTP	N2-C2-N3	5.30	130.05	119.74
25	MG	501	GTP	O6-C6-N1	-5.08	114.65	120.65
25	HI	501	GTP	O3B-PG-O1G	-5.07	83.09	111.19
25	MH	501	GTP	C5-C6-N1	5.05	122.87	113.95
25	PI	501	GTP	O6-C6-N1	-5.05	114.69	120.65
25	MH	501	GTP	O6-C6-C5	-5.04	114.53	124.37
25	CJ	501	GTP	C5-C6-N1	4.94	122.67	113.95
25	CJ	501	GTP	O6-C6-C5	-4.90	114.80	124.37
25	WI	501	GTP	O6-C6-N1	-4.89	114.87	120.65
25	AE	501	GTP	O6-C6-N1	-4.86	114.91	120.65
25	ED	501	GTP	N2-C2-N3	4.85	129.18	119.74
25	ND	501	GTP	C5-C6-N1	4.83	122.48	113.95
25	FF	502	GTP	C8-N7-C5	4.78	112.09	102.99
25	KG	501	GTP	C8-N7-C5	4.76	112.06	102.99
25	GG	501	GTP	O6-C6-N1	-4.76	115.03	120.65
25	ED	501	GTP	C5-C6-N1	4.76	122.35	113.95
25	LE	501	GTP	C8-N7-C5	4.74	112.01	102.99
25	OF	501	GTP	C5-C6-N1	4.72	122.29	113.95
25	BG	501	GTP	O6-C6-N1	-4.68	115.12	120.65
25	EG	501	GTP	O6-C6-C5	4.60	133.35	124.37
25	CG	501	GTP	C3'-C2'-C1'	4.59	107.89	100.98
25	DE	501	GTP	C3'-C2'-C1'	4.56	107.84	100.98
25	NE	501	GTP	O6-C6-N1	-4.55	115.28	120.65
25	IE	501	GTP	O6-C6-N1	-4.54	115.29	120.65
25	KG	501	GTP	O6-C6-N1	-4.50	115.33	120.65
25	GH	502	GTP	C3'-C2'-C1'	4.45	107.68	100.98
25	IE	501	GTP	C3'-C2'-C1'	4.35	107.52	100.98
25	DH	501	GTP	C5-C6-N1	4.34	121.62	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DE	501	GTP	N2-C2-N1	4.32	125.91	116.71
25	HG	501	GTP	C3'-C2'-C1'	4.31	107.46	100.98
25	ND	501	GTP	N2-C2-N3	4.29	128.08	119.74
25	NF	501	GTP	O6-C6-C5	-4.27	116.04	124.37
25	DE	501	GTP	C5-C6-N1	4.26	121.48	113.95
25	UG	501	GTP	O6-C6-N1	-4.25	115.63	120.65
25	RG	501	GTP	O6-C6-N1	-4.23	115.65	120.65
25	NG	501	GTP	O6-C6-N1	-4.23	115.66	120.65
25	CI	501	GTP	O6-C6-N1	-4.21	115.68	120.65
25	JH	501	GTP	C5-C6-N1	4.21	121.38	113.95
25	AF	501	GTP	C5-C6-N1	4.20	121.36	113.95
25	NF	501	GTP	C5-C6-N1	4.20	121.36	113.95
25	GG	501	GTP	C3'-C2'-C1'	4.19	107.28	100.98
25	CI	501	GTP	C3'-C2'-C1'	4.15	107.22	100.98
25	AH	501	GTP	C5-C6-N1	4.13	121.25	113.95
25	DE	501	GTP	N1-C2-N3	-4.12	115.62	123.32
25	JG	501	GTP	O6-C6-N1	-4.12	115.79	120.65
25	NG	501	GTP	C3'-C2'-C1'	4.11	107.17	100.98
25	EF	501	GTP	PB-O3B-PG	-4.11	118.71	132.83
25	DH	501	GTP	C2-N1-C6	-4.11	117.54	125.10
25	JG	501	GTP	C3'-C2'-C1'	4.09	107.14	100.98
25	CH	501	GTP	C5-C6-N1	4.08	121.16	113.95
25	NH	501	GTP	C5-C6-N1	4.07	121.14	113.95
25	IH	501	GTP	C5-C6-N1	4.04	121.08	113.95
25	GE	501	GTP	O6-C6-N1	4.04	125.42	120.65
25	SF	501	GTP	C5-C6-N1	4.03	121.06	113.95
25	BE	501	GTP	O6-C6-N1	-4.02	115.90	120.65
25	JD	501	GTP	C3'-C2'-C1'	3.99	106.99	100.98
25	JH	501	GTP	C2-N1-C6	-3.99	117.75	125.10
25	KG	501	GTP	C3'-C2'-C1'	3.98	106.97	100.98
25	DD	501	GTP	C5-C6-N1	3.98	120.97	113.95
25	RG	501	GTP	C3'-C2'-C1'	3.98	106.96	100.98
25	QF	501	GTP	C5-C6-N1	3.97	120.96	113.95
25	RE	501	GTP	C3'-C2'-C1'	3.96	106.94	100.98
25	HI	501	GTP	PA-O3A-PB	-3.96	119.23	132.83
25	MH	501	GTP	PB-O3B-PG	-3.95	119.27	132.83
25	AI	501	GTP	O6-C6-N1	-3.95	115.99	120.65
25	WF	501	GTP	C5-C6-N1	3.94	120.91	113.95
25	GD	501	GTP	C5-C6-N1	3.94	120.90	113.95
25	ND	501	GTP	C2-N1-C6	-3.93	117.86	125.10
25	ED	501	GTP	O6-C6-C5	-3.90	116.76	124.37
25	JH	501	GTP	O6-C6-C5	-3.88	116.79	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	FE	501	GTP	C3'-C2'-C1'	3.85	106.77	100.98
25	FF	501	GTP	C5-C6-N1	3.83	120.71	113.95
25	OE	501	GTP	C5-C6-N1	3.83	120.71	113.95
25	CH	501	GTP	C2-N1-C6	-3.81	118.09	125.10
25	SG	501	GTP	C3'-C2'-C1'	3.80	106.70	100.98
25	AF	501	GTP	C2-N1-C6	-3.80	118.11	125.10
25	AE	501	GTP	C5-C6-N1	3.79	120.65	113.95
25	VH	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
25	CJ	501	GTP	C2-N1-C6	-3.77	118.16	125.10
25	JF	501	GTP	PB-O3B-PG	-3.77	119.90	132.83
25	FE	501	GTP	C8-N7-C5	3.75	110.14	102.99
25	AF	501	GTP	O6-C6-C5	-3.74	117.07	124.37
25	HG	501	GTP	O6-C6-C5	-3.72	117.10	124.37
25	OD	501	GTP	PB-O3B-PG	-3.72	120.07	132.83
25	QE	501	GTP	C3'-C2'-C1'	3.70	106.54	100.98
25	AI	501	GTP	C3'-C2'-C1'	3.70	106.54	100.98
25	MH	501	GTP	C2-N1-C6	-3.69	118.31	125.10
25	MI	501	GTP	O6-C6-N1	-3.67	116.31	120.65
25	OE	501	GTP	O6-C6-N1	-3.66	116.33	120.65
25	VD	501	GTP	PB-O3B-PG	-3.66	120.26	132.83
25	LE	501	GTP	C3'-C2'-C1'	3.66	106.49	100.98
25	DF	501	GTP	C5-C6-N1	3.65	120.39	113.95
25	ND	501	GTP	O6-C6-C5	-3.64	117.26	124.37
25	ND	501	GTP	PB-O3B-PG	-3.63	120.36	132.83
25	SI	501	GTP	O6-C6-N1	-3.62	116.37	120.65
25	KG	501	GTP	N2-C2-N1	3.62	124.43	116.71
25	NF	501	GTP	C2-N1-C6	-3.62	118.43	125.10
25	AF	501	GTP	PB-O3B-PG	-3.62	120.41	132.83
25	SE	501	GTP	C3'-C2'-C1'	3.60	106.40	100.98
25	BG	501	GTP	C3'-C2'-C1'	3.60	106.40	100.98
25	RJ	501	GTP	C5-C6-N1	3.59	120.29	113.95
25	CH	501	GTP	O6-C6-C5	-3.58	117.38	124.37
25	II	501	GTP	C3'-C2'-C1'	3.57	106.36	100.98
25	QG	501	GTP	C5-C6-N1	3.57	120.26	113.95
25	UD	501	GTP	C5-C6-N1	3.57	120.25	113.95
25	CG	501	GTP	C5-C6-N1	3.56	120.24	113.95
25	LF	501	GTP	C5-C6-N1	3.55	120.23	113.95
25	NG	501	GTP	C5-C6-N1	3.55	120.22	113.95
25	QE	501	GTP	C5-C6-N1	3.55	120.22	113.95
25	UE	501	GTP	O6-C6-N1	-3.55	116.46	120.65
25	LH	501	GTP	C5-C6-N1	3.54	120.21	113.95
25	FF	501	GTP	C2-N1-C6	-3.54	118.58	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	QF	501	GTP	C2-N1-C6	-3.53	118.59	125.10
25	HI	501	GTP	C3'-C2'-C1'	3.53	106.30	100.98
25	OH	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
25	SE	501	GTP	O6-C6-N1	-3.53	116.48	120.65
25	GF	501	GTP	C5-C6-N1	3.52	120.17	113.95
25	IG	501	GTP	C5-C6-N1	3.52	120.17	113.95
25	NI	501	GTP	O3G-PG-O3B	3.51	116.42	104.64
25	UG	501	GTP	C5-C6-N1	3.51	120.14	113.95
25	DH	501	GTP	O6-C6-C5	-3.51	117.52	124.37
25	DH	501	GTP	PB-O3B-PG	-3.51	120.79	132.83
25	GD	501	GTP	C2-N1-C6	-3.50	118.64	125.10
25	KE	501	GTP	C3'-C2'-C1'	3.50	106.25	100.98
25	FH	501	GTP	C5-C6-N1	3.49	120.12	113.95
25	WF	501	GTP	PB-O3B-PG	-3.49	120.85	132.83
25	PI	501	GTP	C5-C6-N1	3.49	120.11	113.95
25	KG	501	GTP	O4'-C1'-C2'	-3.48	101.84	106.93
25	NF	501	GTP	PB-O3B-PG	-3.47	120.91	132.83
25	LH	501	GTP	PB-O3B-PG	-3.47	120.92	132.83
25	FF	501	GTP	PB-O3B-PG	-3.46	120.94	132.83
25	QG	501	GTP	O6-C6-N1	-3.46	116.56	120.65
25	MG	501	GTP	C3'-C2'-C1'	3.46	106.18	100.98
25	VG	501	GTP	C3'-C2'-C1'	3.45	106.17	100.98
25	EH	501	GTP	C5-C6-N1	3.45	120.04	113.95
25	KI	501	GTP	C5-C6-N1	3.45	120.04	113.95
25	WE	501	GTP	C8-N7-C5	3.44	109.55	102.99
25	RE	501	GTP	O6-C6-N1	-3.44	116.58	120.65
25	WH	501	GTP	C5-C6-N1	3.44	120.03	113.95
25	NH	501	GTP	C2-N1-C6	-3.44	118.77	125.10
25	EF	501	GTP	C5-C6-N1	3.44	120.02	113.95
25	IF	501	GTP	C5-C6-N1	3.43	120.02	113.95
25	HF	501	GTP	PA-O3A-PB	-3.43	121.05	132.83
25	UH	501	GTP	PB-O3B-PG	-3.43	121.05	132.83
25	HH	501	GTP	C5-C6-N1	3.43	120.00	113.95
25	LF	501	GTP	PB-O3B-PG	-3.43	121.07	132.83
25	HF	501	GTP	N2-C2-N1	-3.42	109.42	116.71
25	PG	501	GTP	C5-C6-N1	3.42	119.99	113.95
25	AG	501	GTP	C5-C6-N1	3.41	119.98	113.95
25	AH	501	GTP	C2-N1-C6	-3.41	118.81	125.10
25	KD	501	GTP	C5-C6-N1	3.41	119.98	113.95
25	NF	501	GTP	PA-O3A-PB	-3.41	121.12	132.83
25	ED	501	GTP	C2-N1-C6	-3.41	118.83	125.10
25	PF	501	GTP	C5-C6-N1	3.40	119.96	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	GH	501	GTP	C5-C6-N1	3.40	119.96	113.95
25	RE	501	GTP	C2-N1-C6	-3.40	118.84	125.10
25	KI	501	GTP	C8-N7-C5	3.40	109.46	102.99
25	HG	501	GTP	C8-N7-C5	3.39	109.45	102.99
25	PG	501	GTP	C3'-C2'-C1'	3.39	106.08	100.98
25	KF	501	GTP	C5-C6-N1	3.39	119.94	113.95
25	VF	501	GTP	C5-C6-N1	3.39	119.93	113.95
25	IG	501	GTP	C3'-C2'-C1'	3.38	106.07	100.98
25	LE	501	GTP	O3G-PG-O3B	3.38	115.97	104.64
25	CJ	501	GTP	PB-O3B-PG	-3.38	121.22	132.83
25	SH	501	GTP	C5-C6-N1	3.37	119.90	113.95
25	QI	501	GTP	C5-C6-N1	3.37	119.90	113.95
25	MF	501	GTP	C5-C6-N1	3.37	119.90	113.95
25	WG	501	GTP	C5-C6-N1	3.37	119.89	113.95
25	KD	501	GTP	PB-O3B-PG	-3.36	121.28	132.83
25	HF	501	GTP	O6-C6-N1	-3.36	116.68	120.65
25	FD	501	GTP	C5-C6-N1	3.36	119.89	113.95
25	UH	501	GTP	C5-C6-N1	3.35	119.87	113.95
25	LI	501	GTP	C8-N7-C5	3.35	109.37	102.99
25	RE	501	GTP	C8-N7-C5	3.35	109.37	102.99
25	UF	501	GTP	C5-C6-N1	3.34	119.85	113.95
25	SF	501	GTP	C2-N1-C6	-3.34	118.95	125.10
25	TI	501	GTP	C3'-C2'-C1'	3.33	105.98	100.98
25	GD	501	GTP	PB-O3B-PG	-3.32	121.43	132.83
25	SJ	501	GTP	C5-C6-N1	3.32	119.82	113.95
25	CJ	501	GTP	C3'-C2'-C1'	3.31	105.97	100.98
25	CI	501	GTP	C2-N1-C6	-3.31	119.00	125.10
25	QI	501	GTP	C3'-C2'-C1'	3.31	105.96	100.98
25	IH	501	GTP	C2-N1-C6	-3.31	119.01	125.10
25	BE	501	GTP	PB-O3B-PG	-3.30	121.50	132.83
25	GG	501	GTP	C8-N7-C5	3.30	109.27	102.99
25	TH	501	GTP	C5-C6-N1	3.30	119.78	113.95
25	NG	501	GTP	C2-N1-C6	-3.30	119.03	125.10
25	UE	501	GTP	C3'-C2'-C1'	3.30	105.94	100.98
25	LG	501	GTP	C3'-C2'-C1'	3.29	105.93	100.98
25	KH	501	GTP	C5-C6-N1	3.29	119.76	113.95
25	LI	501	GTP	C3'-C2'-C1'	3.29	105.92	100.98
25	BG	501	GTP	C5-C6-N1	3.28	119.74	113.95
25	VE	501	GTP	O6-C6-N1	-3.28	116.78	120.65
25	AE	501	GTP	C3'-C2'-C1'	3.28	105.91	100.98
25	VH	501	GTP	C5-C6-N1	3.27	119.73	113.95
25	PH	501	GTP	C5-C6-N1	3.26	119.71	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	OD	501	GTP	C5-C6-N1	3.26	119.71	113.95
25	JD	501	GTP	PA-O3A-PB	-3.26	121.64	132.83
25	HD	501	GTP	C5-C6-N1	3.25	119.70	113.95
25	QF	501	GTP	PB-O3B-PG	-3.25	121.66	132.83
25	RH	501	GTP	C5-C6-N1	3.25	119.69	113.95
25	BF	501	GTP	C5-C6-N1	3.25	119.69	113.95
25	TG	501	GTP	C3'-C2'-C1'	3.25	105.87	100.98
25	KE	501	GTP	O6-C6-N1	-3.25	116.81	120.65
25	FF	502	GTP	C2'-C3'-C4'	3.24	108.94	102.64
25	JF	501	GTP	C5-C6-N1	3.24	119.67	113.95
25	MI	501	GTP	C3'-C2'-C1'	3.24	105.85	100.98
25	SI	501	GTP	C5-C6-N1	3.24	119.67	113.95
25	PE	501	GTP	C5-C6-N1	3.23	119.66	113.95
25	OI	501	GTP	C5-C6-N1	3.23	119.65	113.95
25	NE	501	GTP	C3'-C2'-C1'	3.23	105.84	100.98
25	KI	501	GTP	C3'-C2'-C1'	3.22	105.82	100.98
25	HE	501	GTP	C5-C6-N1	3.22	119.63	113.95
25	BI	501	GTP	C8-N7-C5	3.21	109.11	102.99
25	FH	501	GTP	C3'-C2'-C1'	3.21	105.82	100.98
25	LD	501	GTP	C5-C6-N1	3.21	119.62	113.95
25	RH	501	GTP	PB-O3B-PG	-3.21	121.81	132.83
25	RF	501	GTP	C5-C6-N1	3.21	119.62	113.95
25	QG	501	GTP	C2-N1-C6	-3.21	119.19	125.10
25	TF	501	GTP	PB-O3B-PG	-3.21	121.83	132.83
25	HE	501	GTP	C8-N7-C5	3.20	109.09	102.99
25	SG	501	GTP	C5-C6-N1	3.20	119.61	113.95
25	WG	501	GTP	O6-C6-N1	-3.20	116.87	120.65
25	II	501	GTP	C8-N7-C5	3.20	109.09	102.99
25	TF	501	GTP	C5-C6-N1	3.20	119.60	113.95
25	CF	501	GTP	C5-C6-N1	3.20	119.60	113.95
25	OF	501	GTP	O6-C6-C5	-3.19	118.14	124.37
25	RI	501	GTP	C3'-C2'-C1'	3.19	105.78	100.98
25	TJ	501	GTP	C5-C6-N1	3.19	119.58	113.95
25	QG	501	GTP	C8-N7-C5	3.18	109.05	102.99
25	BH	501	GTP	C5-C6-N1	3.18	119.56	113.95
25	LG	501	GTP	O6-C6-N1	-3.17	116.90	120.65
25	RG	501	GTP	C5-C6-N1	3.17	119.55	113.95
25	VD	501	GTP	C5-C6-N1	3.17	119.55	113.95
25	RH	501	GTP	PA-O3A-PB	-3.17	121.95	132.83
25	OG	501	GTP	O6-C6-N1	-3.16	116.91	120.65
25	KD	501	GTP	C2-N1-C6	-3.16	119.28	125.10
25	HI	501	GTP	C2-N1-C6	-3.16	119.28	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	WF	501	GTP	C2-N1-C6	-3.15	119.29	125.10
25	HI	501	GTP	C5-C6-N1	3.15	119.52	113.95
25	MF	501	GTP	O5'-C5'-C4'	3.15	119.84	108.99
25	SI	501	GTP	C3'-C2'-C1'	3.15	105.72	100.98
25	UE	501	GTP	C5-C6-N1	3.15	119.51	113.95
25	DD	501	GTP	N2-C2-N3	3.15	125.87	119.74
25	BG	501	GTP	PA-O3A-PB	-3.14	122.03	132.83
25	SG	501	GTP	N1-C2-N3	-3.14	117.45	123.32
25	SG	501	GTP	N2-C2-N1	3.14	123.40	116.71
25	TI	501	GTP	C5-C6-N1	3.14	119.50	113.95
25	OH	501	GTP	C5-C6-N1	3.13	119.49	113.95
25	MH	501	GTP	N2-C2-N1	-3.13	110.04	116.71
25	OI	501	GTP	O3G-PG-O3B	3.13	115.13	104.64
25	EG	501	GTP	C8-N7-C5	3.13	108.95	102.99
25	RI	501	GTP	C5-C6-N1	3.12	119.47	113.95
25	AI	501	GTP	C8-N7-C5	3.12	108.94	102.99
25	NI	501	GTP	C3'-C2'-C1'	3.12	105.67	100.98
25	II	501	GTP	C2-N1-C6	-3.12	119.36	125.10
25	KI	501	GTP	C2-N1-C6	-3.12	119.36	125.10
25	NE	501	GTP	C5-C6-N1	3.11	119.44	113.95
25	IG	501	GTP	C2-N1-C6	-3.11	119.38	125.10
25	ME	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
25	HE	501	GTP	C3'-C2'-C1'	3.10	105.65	100.98
25	NI	501	GTP	PA-O3A-PB	-3.10	122.18	132.83
25	GH	502	GTP	C8-N7-C5	3.10	108.90	102.99
25	PF	501	GTP	PB-O3B-PG	-3.10	122.19	132.83
25	CG	501	GTP	C2-N1-C6	-3.10	119.40	125.10
25	SH	501	GTP	PB-O3B-PG	-3.10	122.20	132.83
25	BE	501	GTP	C3'-C2'-C1'	3.09	105.64	100.98
25	FF	501	GTP	O6-C6-C5	-3.09	118.33	124.37
25	PE	501	GTP	C8-N7-C5	3.09	108.88	102.99
25	EF	501	GTP	C2-N1-C6	-3.09	119.41	125.10
25	QH	501	GTP	C5-C6-N1	3.09	119.40	113.95
25	VE	501	GTP	C3'-C2'-C1'	3.09	105.62	100.98
25	WG	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
25	TG	501	GTP	C5-C6-N1	3.08	119.39	113.95
25	KH	501	GTP	C3'-C2'-C1'	3.07	105.61	100.98
25	LI	501	GTP	C2-N1-C6	-3.07	119.44	125.10
25	VF	501	GTP	PB-O3B-PG	-3.07	122.30	132.83
25	LI	501	GTP	C5-C6-N1	3.07	119.37	113.95
25	LF	501	GTP	C2-N1-C6	-3.07	119.45	125.10
25	HH	501	GTP	PB-O3B-PG	-3.06	122.31	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	ND	501	GTP	PA-O3A-PB	-3.06	122.33	132.83
25	WI	501	GTP	C3'-C2'-C1'	3.06	105.58	100.98
25	NH	501	GTP	O6-C6-C5	-3.06	118.40	124.37
25	PG	501	GTP	C8-N7-C5	3.06	108.81	102.99
25	RI	501	GTP	C8-N7-C5	3.05	108.81	102.99
25	OF	501	GTP	PB-O3B-PG	-3.05	122.35	132.83
25	JE	501	GTP	C3'-C2'-C1'	3.05	105.58	100.98
25	QI	501	GTP	O6-C6-N1	-3.05	117.04	120.65
25	GF	501	GTP	PB-O3B-PG	-3.05	122.35	132.83
25	LH	501	GTP	C2-N1-C6	-3.05	119.48	125.10
25	DD	501	GTP	O6-C6-C5	-3.05	118.42	124.37
25	UD	501	GTP	PB-O3B-PG	-3.05	122.37	132.83
25	OI	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
25	NI	501	GTP	C5-C6-N1	3.05	119.33	113.95
25	SF	501	GTP	O6-C6-C5	-3.04	118.43	124.37
25	RE	501	GTP	C5-C6-N1	3.04	119.32	113.95
25	GD	501	GTP	O6-C6-C5	-3.04	118.44	124.37
25	BH	501	GTP	C2-N1-C6	-3.04	119.51	125.10
25	BI	501	GTP	C3'-C2'-C1'	3.03	105.55	100.98
25	MI	501	GTP	C2-N1-C6	-3.03	119.51	125.10
25	HG	501	GTP	C5-C6-N1	3.03	119.31	113.95
25	KF	501	GTP	PB-O3B-PG	-3.03	122.43	132.83
25	MI	501	GTP	C5-C6-N1	3.03	119.30	113.95
25	PH	501	GTP	PB-O3B-PG	-3.02	122.45	132.83
25	TH	501	GTP	PB-O3B-PG	-3.02	122.46	132.83
25	BG	501	GTP	C8-N7-C5	3.02	108.74	102.99
25	DD	501	GTP	C2-N1-C6	-3.01	119.56	125.10
25	RJ	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
25	SE	501	GTP	C5-C6-N1	3.00	119.24	113.95
25	OF	501	GTP	N1-C2-N3	-2.99	117.73	123.32
25	RI	501	GTP	C2-N1-C6	-2.99	119.59	125.10
25	HD	501	GTP	PB-O3B-PG	-2.99	122.57	132.83
25	TJ	501	GTP	PB-O3B-PG	-2.98	122.61	132.83
25	GE	501	GTP	O4'-C1'-C2'	-2.98	102.58	106.93
25	LD	501	GTP	C2-N1-C6	-2.97	119.62	125.10
25	EH	501	GTP	PB-O3B-PG	-2.97	122.63	132.83
25	PE	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
25	PH	501	GTP	C2-N1-C6	-2.97	119.64	125.10
25	QI	501	GTP	C2-N1-C6	-2.97	119.64	125.10
25	AG	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
25	PI	501	GTP	C3'-C2'-C1'	2.96	105.44	100.98
25	UD	501	GTP	C2-N1-C6	-2.96	119.64	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	JD	501	GTP	PB-O3B-PG	-2.96	122.67	132.83
25	LG	501	GTP	PA-O3A-PB	-2.96	122.67	132.83
25	JH	501	GTP	O5'-C5'-C4'	2.96	119.17	108.99
25	OF	501	GTP	C2-N1-C6	-2.96	119.65	125.10
25	MI	501	GTP	C8-N7-C5	2.95	108.60	102.99
25	TH	501	GTP	C2-N1-C6	-2.94	119.67	125.10
25	IG	501	GTP	PA-O3A-PB	-2.94	122.73	132.83
25	IF	501	GTP	PB-O3B-PG	-2.94	122.74	132.83
25	VE	501	GTP	C5-C6-N1	2.94	119.14	113.95
25	JG	501	GTP	C2-N1-C6	-2.93	119.70	125.10
25	JE	501	GTP	O6-C6-N1	-2.93	117.19	120.65
25	AI	501	GTP	C5-C6-N1	2.93	119.12	113.95
25	VG	501	GTP	C5-C6-N1	2.92	119.11	113.95
25	NI	501	GTP	C8-N7-C5	2.92	108.56	102.99
25	CF	501	GTP	PB-O3B-PG	-2.92	122.79	132.83
25	CG	501	GTP	O4'-C1'-C2'	-2.92	102.65	106.93
25	BF	501	GTP	C2-N1-C6	-2.92	119.72	125.10
25	HH	501	GTP	C2-N1-C6	-2.92	119.72	125.10
25	TF	501	GTP	C2-N1-C6	-2.92	119.72	125.10
25	HH	501	GTP	C8-N7-C5	2.92	108.56	102.99
25	KE	501	GTP	C5-C6-N1	2.92	119.11	113.95
25	WE	501	GTP	C5-C6-N1	2.92	119.11	113.95
25	IE	501	GTP	C8-N7-C5	2.92	108.55	102.99
25	OG	501	GTP	C8-N7-C5	2.92	108.55	102.99
25	JG	501	GTP	C5-C6-N1	2.92	119.10	113.95
25	LD	501	GTP	C8-N7-C5	2.92	108.55	102.99
25	AG	501	GTP	C8-N7-C5	2.92	108.55	102.99
25	TI	501	GTP	C8-N7-C5	2.92	108.55	102.99
25	BH	501	GTP	O4'-C4'-C5'	2.92	118.97	109.37
25	HG	501	GTP	N1-C2-N3	-2.91	117.88	123.32
25	MI	501	GTP	PA-O3A-PB	-2.91	122.83	132.83
25	VE	501	GTP	C8-N7-C5	2.91	108.53	102.99
25	FD	501	GTP	C8-N7-C5	2.91	108.53	102.99
25	FF	502	GTP	O6-C6-N1	-2.90	117.22	120.65
25	OG	501	GTP	C5-C6-N1	2.90	119.08	113.95
25	FH	501	GTP	N2-C2-N3	2.90	125.38	119.74
25	WI	501	GTP	C5-C6-N1	2.89	119.06	113.95
25	DG	501	GTP	C8-N7-C5	2.89	108.49	102.99
25	KF	501	GTP	C2-N1-C6	-2.88	119.79	125.10
25	DH	501	GTP	PA-O3A-PB	-2.88	122.93	132.83
25	QG	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
25	SJ	501	GTP	C2-N1-C6	-2.87	119.81	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	JF	501	GTP	C8-N7-C5	2.87	108.46	102.99
25	OD	501	GTP	C8-N7-C5	2.87	108.46	102.99
25	DF	501	GTP	C2-N1-C6	-2.87	119.82	125.10
25	HE	501	GTP	C2-N1-C6	-2.87	119.82	125.10
25	MF	501	GTP	O2G-PG-O3B	2.86	114.24	104.64
25	KH	501	GTP	C2-N1-C6	-2.86	119.83	125.10
25	NE	501	GTP	C2-N1-C6	-2.86	119.84	125.10
25	LH	501	GTP	C8-N7-C5	2.86	108.43	102.99
25	II	501	GTP	C5-C6-N1	2.86	118.99	113.95
25	MF	501	GTP	C2-N1-C6	-2.85	119.84	125.10
25	DD	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
25	OH	501	GTP	C8-N7-C5	2.85	108.42	102.99
25	HD	501	GTP	C2-N1-C6	-2.85	119.85	125.10
25	BH	501	GTP	O5'-C5'-C4'	2.85	118.79	108.99
25	PI	501	GTP	N1-C2-N3	-2.85	118.00	123.32
25	NG	501	GTP	C8-N7-C5	2.85	108.41	102.99
25	TJ	501	GTP	C8-N7-C5	2.84	108.41	102.99
25	DF	501	GTP	PA-O3A-PB	-2.84	123.07	132.83
25	WI	501	GTP	C2-N1-C6	-2.84	119.87	125.10
25	SH	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
25	QH	501	GTP	PB-O3B-PG	-2.84	123.08	132.83
25	BF	501	GTP	C8-N7-C5	2.84	108.40	102.99
25	LF	501	GTP	O5'-C5'-C4'	2.83	118.75	108.99
25	FD	501	GTP	C2-N1-C6	-2.83	119.88	125.10
25	WF	501	GTP	O6-C6-C5	-2.83	118.84	124.37
25	SI	501	GTP	C2-N1-C6	-2.83	119.89	125.10
25	NF	501	GTP	N2-C2-N3	2.83	125.25	119.74
25	RJ	501	GTP	C8-N7-C5	2.83	108.38	102.99
25	HD	501	GTP	C8-N7-C5	2.82	108.37	102.99
25	KI	501	GTP	PA-O3A-PB	-2.82	123.14	132.83
25	JE	501	GTP	N1-C2-N3	-2.82	118.06	123.32
25	FH	501	GTP	C8-N7-C5	2.82	108.35	102.99
25	MF	501	GTP	C3'-C2'-C1'	2.81	105.22	100.98
25	PE	501	GTP	N1-C2-N3	-2.81	118.06	123.32
25	VH	501	GTP	C8-N7-C5	2.81	108.35	102.99
25	DG	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
25	MG	501	GTP	N1-C2-N3	-2.81	118.07	123.32
25	FF	501	GTP	PA-O3A-PB	-2.81	123.19	132.83
25	VF	501	GTP	C8-N7-C5	2.81	108.34	102.99
25	WH	501	GTP	C2-N1-C6	-2.81	119.93	125.10
25	CF	501	GTP	C8-N7-C5	2.81	108.33	102.99
25	KI	501	GTP	O3G-PG-O3B	2.80	114.03	104.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	ME	501	GTP	C2-N1-C6	-2.80	119.94	125.10
25	TF	501	GTP	C8-N7-C5	2.80	108.32	102.99
25	VH	501	GTP	C2-N1-C6	-2.79	119.95	125.10
25	GH	502	GTP	O6-C6-N1	-2.79	117.35	120.65
25	GF	501	GTP	C8-N7-C5	2.79	108.31	102.99
25	GH	501	GTP	C8-N7-C5	2.79	108.31	102.99
25	IH	501	GTP	PB-O3B-PG	-2.79	123.26	132.83
25	TH	501	GTP	C8-N7-C5	2.79	108.30	102.99
25	KF	501	GTP	C8-N7-C5	2.79	108.30	102.99
25	OI	501	GTP	C8-N7-C5	2.78	108.29	102.99
25	UH	501	GTP	C2-N1-C6	-2.78	119.97	125.10
25	SH	501	GTP	C8-N7-C5	2.78	108.29	102.99
25	LE	501	GTP	N2-C2-N1	2.78	122.63	116.71
25	PH	501	GTP	C8-N7-C5	2.78	108.28	102.99
25	SE	501	GTP	C2-N1-C6	-2.78	119.98	125.10
25	KD	501	GTP	O5'-C5'-C4'	2.78	118.54	108.99
25	TG	501	GTP	C8-N7-C5	2.77	108.27	102.99
25	PE	501	GTP	O6-C6-N1	-2.77	117.38	120.65
25	PF	501	GTP	C8-N7-C5	2.77	108.26	102.99
25	RF	501	GTP	C8-N7-C5	2.77	108.26	102.99
25	UF	501	GTP	C8-N7-C5	2.77	108.26	102.99
25	EH	501	GTP	C2-N1-C6	-2.77	120.00	125.10
25	FF	501	GTP	O4'-C4'-C5'	2.77	118.47	109.37
25	AI	501	GTP	C2-N1-C6	-2.76	120.01	125.10
25	UF	501	GTP	C3'-C2'-C1'	2.76	105.14	100.98
25	GH	501	GTP	C2-N1-C6	-2.76	120.01	125.10
25	KG	501	GTP	N1-C2-N3	-2.76	118.16	123.32
25	SF	501	GTP	PA-O3A-PB	-2.76	123.35	132.83
25	KH	501	GTP	PB-O3B-PG	-2.76	123.36	132.83
25	KE	501	GTP	C2-N1-C6	-2.75	120.03	125.10
25	RJ	501	GTP	C2-N1-C6	-2.75	120.03	125.10
25	JG	501	GTP	C8-N7-C5	2.75	108.23	102.99
25	KH	501	GTP	C8-N7-C5	2.75	108.23	102.99
25	UH	501	GTP	C8-N7-C5	2.75	108.23	102.99
25	BE	501	GTP	C5-C6-N1	2.75	118.81	113.95
25	RH	501	GTP	C8-N7-C5	2.75	108.23	102.99
25	QH	501	GTP	C8-N7-C5	2.75	108.22	102.99
25	BH	501	GTP	C8-N7-C5	2.75	108.22	102.99
25	VD	501	GTP	C8-N7-C5	2.75	108.22	102.99
25	IF	501	GTP	C8-N7-C5	2.74	108.22	102.99
25	KE	501	GTP	C8-N7-C5	2.74	108.22	102.99
25	MG	501	GTP	PA-O3A-PB	-2.74	123.41	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	EH	501	GTP	C8-N7-C5	2.74	108.22	102.99
25	OE	501	GTP	C3'-C2'-C1'	2.74	105.11	100.98
25	UG	501	GTP	C3'-C2'-C1'	2.74	105.11	100.98
25	AH	501	GTP	O6-C6-C5	-2.74	119.02	124.37
25	ME	501	GTP	C8-N7-C5	2.74	108.21	102.99
25	TI	501	GTP	C2-N1-C6	-2.74	120.06	125.10
25	DD	501	GTP	PA-O3A-PB	-2.74	123.44	132.83
25	TJ	501	GTP	C2-N1-C6	-2.73	120.06	125.10
25	BI	501	GTP	O6-C6-N1	-2.73	117.42	120.65
25	SJ	501	GTP	C8-N7-C5	2.73	108.19	102.99
25	LF	501	GTP	C8-N7-C5	2.73	108.19	102.99
25	ED	501	GTP	N1-C2-N3	-2.73	118.23	123.32
25	PG	501	GTP	C2-N1-C6	-2.72	120.08	125.10
25	IF	501	GTP	C2-N1-C6	-2.72	120.09	125.10
25	JH	501	GTP	PB-O3B-PG	-2.72	123.50	132.83
25	SH	501	GTP	C2-N1-C6	-2.72	120.10	125.10
25	OD	501	GTP	C2-N1-C6	-2.72	120.10	125.10
25	KD	501	GTP	C8-N7-C5	2.71	108.16	102.99
25	JE	501	GTP	C8-N7-C5	2.71	108.16	102.99
25	LF	501	GTP	O4'-C4'-C5'	2.71	118.30	109.37
25	UF	501	GTP	C2-N1-C6	-2.71	120.10	125.10
25	FF	502	GTP	O6-C6-C5	2.71	129.66	124.37
25	RJ	501	GTP	PB-O3B-PG	-2.70	123.55	132.83
25	MF	501	GTP	C8-N7-C5	2.70	108.14	102.99
25	FH	501	GTP	N1-C2-N3	-2.70	118.28	123.32
25	RG	501	GTP	C8-N7-C5	2.70	108.13	102.99
25	IE	501	GTP	C5-C6-N1	2.70	118.71	113.95
25	RE	501	GTP	PB-O3B-PG	-2.69	123.59	132.83
25	CJ	501	GTP	N1-C2-N3	-2.69	118.30	123.32
25	OH	501	GTP	C2-N1-C6	-2.69	120.15	125.10
25	AG	501	GTP	C2-N1-C6	-2.69	120.15	125.10
25	QI	501	GTP	C8-N7-C5	2.69	108.11	102.99
25	OD	501	GTP	C3'-C2'-C1'	2.68	105.02	100.98
25	GG	501	GTP	O4'-C1'-C2'	-2.68	103.01	106.93
25	GH	501	GTP	PB-O3B-PG	-2.68	123.64	132.83
25	ED	501	GTP	PB-O3B-PG	-2.67	123.66	132.83
25	BE	501	GTP	PA-O3A-PB	-2.67	123.66	132.83
25	SG	501	GTP	C8-N7-C5	2.67	108.08	102.99
25	VG	501	GTP	C2-N1-C6	-2.67	120.18	125.10
25	VH	501	GTP	C3'-C2'-C1'	2.67	104.99	100.98
25	MG	501	GTP	O3G-PG-O3B	2.66	113.56	104.64
25	VF	501	GTP	C2-N1-C6	-2.66	120.21	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	WE	501	GTP	C2-N1-C6	-2.66	120.21	125.10
25	TI	501	GTP	PA-O3A-PB	-2.65	123.73	132.83
25	GF	501	GTP	N1-C2-N3	-2.65	118.37	123.32
25	GH	502	GTP	N2-C2-N1	2.65	122.35	116.71
25	UE	501	GTP	PA-O3A-PB	-2.64	123.76	132.83
25	KD	501	GTP	C3'-C2'-C1'	2.64	104.96	100.98
25	RF	501	GTP	C2-N1-C6	-2.64	120.23	125.10
25	WG	501	GTP	C2-N1-C6	-2.64	120.23	125.10
25	WH	501	GTP	C8-N7-C5	2.64	108.02	102.99
25	RG	501	GTP	C2-N1-C6	-2.64	120.24	125.10
25	SE	501	GTP	C8-N7-C5	2.63	108.00	102.99
25	ME	501	GTP	C5-C6-N1	2.63	118.60	113.95
25	RF	501	GTP	PA-O3A-PB	-2.63	123.81	132.83
25	NH	501	GTP	PB-O3B-PG	-2.62	123.82	132.83
25	HD	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
25	IH	501	GTP	O6-C6-C5	-2.62	119.26	124.37
25	CH	501	GTP	PB-O3B-PG	-2.62	123.84	132.83
25	CI	501	GTP	C5-C6-N1	2.62	118.58	113.95
25	RH	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
25	RF	501	GTP	PB-O3B-PG	-2.62	123.85	132.83
25	UD	501	GTP	PA-O3A-PB	-2.61	123.86	132.83
25	HG	501	GTP	C2-N1-C6	-2.61	120.29	125.10
25	BF	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
25	LH	501	GTP	O6-C6-C5	-2.61	119.27	124.37
25	RH	501	GTP	C2-N1-C6	-2.61	120.29	125.10
25	SJ	501	GTP	PA-O3A-PB	-2.60	123.89	132.83
25	PF	501	GTP	N1-C2-N3	-2.60	118.46	123.32
25	TH	501	GTP	C3'-C2'-C1'	2.60	104.89	100.98
25	JF	501	GTP	C2-N1-C6	-2.60	120.31	125.10
25	SE	501	GTP	PA-O3A-PB	-2.60	123.91	132.83
25	MH	501	GTP	PA-O3A-PB	-2.59	123.93	132.83
25	EG	501	GTP	C2'-C3'-C4'	2.59	107.68	102.64
25	VG	501	GTP	O6-C6-N1	-2.59	117.59	120.65
25	IE	501	GTP	PB-O3B-PG	-2.59	123.95	132.83
25	ME	501	GTP	O6-C6-N1	-2.59	117.60	120.65
25	GE	501	GTP	PA-O3A-PB	-2.58	123.96	132.83
25	DF	501	GTP	C8-N7-C5	2.58	107.91	102.99
25	QF	501	GTP	PA-O3A-PB	-2.58	123.97	132.83
25	WE	501	GTP	C3'-C2'-C1'	2.58	104.86	100.98
25	SI	501	GTP	C8-N7-C5	2.57	107.89	102.99
25	MF	501	GTP	O6-C6-C5	-2.57	119.36	124.37
25	GF	501	GTP	C3'-C2'-C1'	2.57	104.84	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	TJ	501	GTP	PA-O3A-PB	-2.57	124.02	132.83
25	UD	501	GTP	C3'-C2'-C1'	2.56	104.84	100.98
25	QH	501	GTP	C2-N1-C6	-2.56	120.38	125.10
25	AE	501	GTP	PB-O3B-PG	-2.56	124.04	132.83
25	EF	501	GTP	O5'-C5'-C4'	2.56	117.79	108.99
25	RF	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
25	LG	501	GTP	N2-C2-N1	2.55	122.15	116.71
25	TG	501	GTP	C2-N1-C6	-2.55	120.40	125.10
25	JG	501	GTP	O3G-PG-O3B	2.55	113.18	104.64
25	WH	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
25	OI	501	GTP	O6-C6-N1	-2.54	117.65	120.65
25	UF	501	GTP	PB-O3B-PG	-2.54	124.12	132.83
25	WI	501	GTP	C8-N7-C5	2.54	107.82	102.99
25	GD	501	GTP	C8-N7-C5	2.53	107.81	102.99
25	OI	501	GTP	C2-N1-C6	-2.53	120.44	125.10
25	UH	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
25	WF	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
25	ND	501	GTP	N2-C2-N1	-2.53	111.33	116.71
25	HI	501	GTP	C8-N7-C5	2.53	107.81	102.99
25	TG	501	GTP	PB-O3B-PG	-2.53	124.15	132.83
25	ED	501	GTP	PA-O3A-PB	-2.53	124.16	132.83
25	HH	501	GTP	O4'-C4'-C5'	2.52	117.68	109.37
25	LF	501	GTP	O6-C6-C5	-2.52	119.44	124.37
25	EF	501	GTP	C8-N7-C5	2.52	107.80	102.99
25	PG	501	GTP	O6-C6-N1	-2.52	117.68	120.65
25	GG	501	GTP	N2-C2-N1	2.51	122.06	116.71
25	FE	501	GTP	O3G-PG-O3B	2.51	113.06	104.64
25	CF	501	GTP	C2-N1-C6	-2.51	120.48	125.10
25	FF	501	GTP	C8-N7-C5	2.51	107.76	102.99
25	QH	501	GTP	C3'-C2'-C1'	2.51	104.75	100.98
25	CH	501	GTP	PA-O3A-PB	-2.50	124.23	132.83
25	OE	501	GTP	C2-N1-C6	-2.50	120.49	125.10
25	IE	501	GTP	C2-N1-C6	-2.50	120.50	125.10
25	AE	501	GTP	C2-N1-C6	-2.50	120.50	125.10
25	WH	501	GTP	PB-O3B-PG	-2.49	124.27	132.83
25	GH	501	GTP	O6-C6-C5	-2.49	119.51	124.37
25	VF	501	GTP	C3'-C2'-C1'	2.49	104.73	100.98
25	OF	501	GTP	N2-C2-N3	2.49	124.58	119.74
25	HH	501	GTP	C3'-C2'-C1'	2.49	104.72	100.98
25	OH	501	GTP	C3'-C2'-C1'	2.49	104.72	100.98
25	BI	501	GTP	C2-N1-C6	-2.48	120.52	125.10
25	NH	501	GTP	C8-N7-C5	2.48	107.72	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	FD	501	GTP	C3'-C2'-C1'	2.48	104.71	100.98
25	VD	501	GTP	C3'-C2'-C1'	2.48	104.71	100.98
25	QE	501	GTP	C2-N1-C6	-2.48	120.54	125.10
25	TG	501	GTP	PA-O3A-PB	-2.48	124.33	132.83
25	IF	501	GTP	O6-C6-C5	-2.47	119.54	124.37
25	TF	501	GTP	C3'-C2'-C1'	2.47	104.70	100.98
25	OE	501	GTP	PA-O3A-PB	-2.47	124.34	132.83
25	VD	501	GTP	C2-N1-C6	-2.47	120.55	125.10
25	NI	501	GTP	C2-N1-C6	-2.47	120.55	125.10
25	EF	501	GTP	C3'-C2'-C1'	2.46	104.69	100.98
25	JF	501	GTP	C3'-C2'-C1'	2.46	104.68	100.98
25	TF	501	GTP	PA-O3A-PB	-2.45	124.41	132.83
25	BE	501	GTP	C2-N1-C6	-2.44	120.61	125.10
25	QF	501	GTP	O6-C6-C5	-2.44	119.61	124.37
25	WH	501	GTP	O6-C6-C5	-2.43	119.63	124.37
25	BG	501	GTP	N1-C2-N3	-2.42	118.79	123.32
25	WG	501	GTP	C8-N7-C5	2.42	107.60	102.99
25	PH	501	GTP	C3'-C2'-C1'	2.42	104.62	100.98
25	AG	501	GTP	O3G-PG-O3B	2.42	112.74	104.64
25	WF	501	GTP	C8-N7-C5	2.42	107.59	102.99
25	EE	501	GTP	C5-C6-N1	2.42	118.22	113.95
25	QI	501	GTP	PA-O3A-PB	-2.42	124.54	132.83
25	WG	501	GTP	PB-O3B-PG	-2.41	124.54	132.83
25	FF	501	GTP	O5'-C5'-C4'	2.41	117.30	108.99
25	EH	501	GTP	C3'-C2'-C1'	2.41	104.61	100.98
25	EH	501	GTP	O6-C6-C5	-2.41	119.67	124.37
25	UE	501	GTP	C2-N1-C6	-2.41	120.67	125.10
25	SF	501	GTP	C8-N7-C5	2.41	107.57	102.99
25	QE	501	GTP	C8-N7-C5	2.41	107.57	102.99
25	SJ	501	GTP	C3'-C2'-C1'	2.40	104.60	100.98
25	NE	501	GTP	C8-N7-C5	2.40	107.57	102.99
25	JE	501	GTP	C2'-C3'-C4'	2.40	107.31	102.64
25	AE	501	GTP	PA-O3A-PB	-2.40	124.59	132.83
25	CI	501	GTP	N2-C2-N1	2.40	121.82	116.71
25	RJ	501	GTP	N1-C2-N3	-2.40	118.84	123.32
25	WG	501	GTP	PA-O3A-PB	-2.40	124.60	132.83
25	AH	501	GTP	PB-O3B-PG	-2.40	124.61	132.83
25	PI	501	GTP	C8-N7-C5	2.40	107.55	102.99
25	IH	501	GTP	C3'-C2'-C1'	2.40	104.58	100.98
25	QF	501	GTP	C3'-C2'-C1'	2.40	104.58	100.98
25	KD	501	GTP	O4'-C4'-C5'	2.39	117.24	109.37
25	DH	501	GTP	O5'-C5'-C4'	2.39	117.22	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	TJ	501	GTP	C3'-C2'-C1'	2.39	104.57	100.98
25	PI	501	GTP	N2-C2-N1	2.39	121.79	116.71
25	HG	501	GTP	O6-C6-N1	2.38	123.47	120.65
25	IF	501	GTP	C3'-C2'-C1'	2.38	104.57	100.98
25	GF	501	GTP	O6-C6-C5	-2.38	119.72	124.37
25	LE	501	GTP	O4'-C4'-C3'	2.38	109.83	105.11
25	VE	501	GTP	C2-N1-C6	-2.38	120.72	125.10
25	FE	501	GTP	O6-C6-C5	2.38	129.02	124.37
25	FH	501	GTP	O6-C6-C5	-2.38	119.72	124.37
25	GG	501	GTP	PB-O3B-PG	-2.38	124.67	132.83
25	CG	501	GTP	C8-N7-C5	2.38	107.52	102.99
25	OD	501	GTP	PA-O3A-PB	-2.37	124.68	132.83
25	RJ	501	GTP	O6-C6-C5	-2.37	119.74	124.37
25	QE	501	GTP	PA-O3A-PB	-2.37	124.69	132.83
25	LG	501	GTP	C8-N7-C5	2.37	107.50	102.99
25	DF	501	GTP	O6-C6-C5	-2.37	119.75	124.37
25	DH	501	GTP	O4'-C4'-C5'	2.37	117.16	109.37
25	VG	501	GTP	C8-N7-C5	2.37	107.50	102.99
25	GH	501	GTP	PA-O3A-PB	-2.36	124.71	132.83
25	EG	501	GTP	N1-C2-N3	-2.36	118.90	123.32
25	AI	501	GTP	PA-O3A-PB	-2.36	124.72	132.83
25	LH	501	GTP	O5'-C5'-C4'	2.36	117.11	108.99
25	TG	501	GTP	O6-C6-N1	-2.36	117.86	120.65
25	WF	501	GTP	PA-O3A-PB	-2.36	124.74	132.83
25	LD	501	GTP	O5'-C5'-C4'	2.36	117.10	108.99
25	GF	501	GTP	C2-N1-C6	-2.35	120.76	125.10
25	HF	501	GTP	C5-C6-N1	2.35	118.11	113.95
25	GG	501	GTP	C2-N1-C6	-2.35	120.77	125.10
25	SH	501	GTP	O6-C6-C5	-2.35	119.78	124.37
25	PF	501	GTP	O6-C6-C5	-2.35	119.78	124.37
25	OG	501	GTP	C3'-C2'-C1'	2.35	104.52	100.98
25	GH	502	GTP	C5-C6-N1	2.35	118.10	113.95
25	JE	501	GTP	PA-O3A-PB	-2.35	124.77	132.83
25	JH	501	GTP	C8-N7-C5	2.35	107.46	102.99
25	BI	501	GTP	C5-C6-N1	2.35	118.09	113.95
25	UH	501	GTP	O6-C6-C5	-2.34	119.80	124.37
25	PG	501	GTP	O3G-PG-O3B	2.34	112.49	104.64
25	WF	501	GTP	N2-C2-N3	2.34	124.29	119.74
25	HE	501	GTP	PB-O3B-PG	-2.34	124.80	132.83
25	PF	501	GTP	N2-C2-N3	2.33	124.28	119.74
25	DD	501	GTP	C8-N7-C5	2.33	107.43	102.99
25	JF	501	GTP	O6-C6-C5	-2.33	119.82	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	TI	501	GTP	PB-O3B-PG	-2.33	124.83	132.83
25	TH	501	GTP	PA-O3A-PB	-2.33	124.83	132.83
25	CI	501	GTP	C8-N7-C5	2.33	107.42	102.99
25	UF	501	GTP	O6-C6-C5	-2.33	119.83	124.37
25	GG	501	GTP	N2-C2-N3	-2.33	115.21	119.74
25	LI	501	GTP	O3G-PG-O1G	2.32	119.78	110.68
25	NH	501	GTP	N2-C2-N3	2.32	124.26	119.74
25	KD	501	GTP	O6-C6-C5	-2.32	119.84	124.37
25	VF	501	GTP	O6-C6-C5	-2.32	119.84	124.37
25	IF	501	GTP	O5'-C5'-C4'	2.32	116.97	108.99
25	FE	501	GTP	PB-O3B-PG	-2.32	124.87	132.83
25	LI	501	GTP	PA-O3A-PB	-2.32	124.88	132.83
25	IE	501	GTP	N2-C2-N1	2.32	121.64	116.71
25	IF	501	GTP	O2G-PG-O3B	2.31	112.39	104.64
25	NF	501	GTP	C8-N7-C5	2.31	107.39	102.99
25	HE	501	GTP	O2G-PG-O3B	2.31	112.38	104.64
25	BE	501	GTP	C8-N7-C5	2.31	107.38	102.99
25	AF	501	GTP	C8-N7-C5	2.31	107.38	102.99
25	PI	501	GTP	C2'-C3'-C4'	2.30	107.12	102.64
25	EH	501	GTP	O2G-PG-O3B	2.30	112.36	104.64
25	OG	501	GTP	PA-O3A-PB	-2.30	124.94	132.83
25	PF	501	GTP	C2-N1-C6	-2.30	120.87	125.10
25	RH	501	GTP	O6-C6-C5	-2.29	119.89	124.37
25	DE	501	GTP	O3G-PG-O3B	2.29	112.32	104.64
25	SJ	501	GTP	O6-C6-C5	-2.28	119.91	124.37
25	MG	501	GTP	C8-N7-C5	2.28	107.34	102.99
25	OH	501	GTP	PA-O3A-PB	-2.28	125.00	132.83
25	RF	501	GTP	O6-C6-C5	-2.28	119.92	124.37
25	LE	501	GTP	C2-N1-C6	-2.28	120.90	125.10
25	FF	501	GTP	C3'-C2'-C1'	2.28	104.41	100.98
25	LI	501	GTP	O3G-PG-O3B	2.28	112.27	104.64
25	CI	501	GTP	PB-O3B-PG	-2.27	125.02	132.83
25	MF	501	GTP	PB-O3B-PG	-2.27	125.03	132.83
25	BG	501	GTP	C2-N1-C6	-2.27	120.92	125.10
25	BI	501	GTP	PA-O3A-PB	-2.27	125.04	132.83
25	QI	501	GTP	O3G-PG-O3B	2.27	112.24	104.64
25	VH	501	GTP	O6-C6-C5	-2.27	119.94	124.37
25	UD	501	GTP	C8-N7-C5	2.27	107.31	102.99
25	KE	501	GTP	PA-O3A-PB	-2.27	125.05	132.83
25	PF	501	GTP	C3'-C2'-C1'	2.26	104.39	100.98
25	WE	501	GTP	O2B-PB-O1B	-2.26	101.05	112.24
25	AE	501	GTP	N1-C2-N3	-2.26	119.10	123.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	UG	501	GTP	N1-C2-N3	-2.25	119.11	123.32
25	KI	501	GTP	O6-C6-N1	-2.25	118.00	120.65
25	PE	501	GTP	PB-O3B-PG	-2.25	125.12	132.83
25	FH	501	GTP	C2-N1-C6	-2.25	120.96	125.10
25	RG	501	GTP	PA-O3A-PB	-2.24	125.13	132.83
25	IH	501	GTP	PA-O3A-PB	-2.24	125.13	132.83
25	RH	501	GTP	O5'-C5'-C4'	2.24	116.70	108.99
25	LD	501	GTP	C3'-C2'-C1'	2.24	104.35	100.98
25	LG	501	GTP	C2'-C3'-C4'	2.23	106.98	102.64
25	TI	501	GTP	O6-C6-N1	-2.23	118.01	120.65
25	UD	501	GTP	O6-C6-C5	-2.23	120.02	124.37
25	HE	501	GTP	O3G-PG-O3B	2.23	112.11	104.64
25	LD	501	GTP	O6-C6-C5	-2.23	120.02	124.37
25	FD	501	GTP	PA-O3A-PB	-2.23	125.19	132.83
25	BG	501	GTP	O3G-PG-O3B	2.22	112.10	104.64
25	PH	501	GTP	O6-C6-C5	-2.22	120.03	124.37
25	KH	501	GTP	PA-O3A-PB	-2.22	125.20	132.83
25	CF	501	GTP	PA-O3A-PB	-2.22	125.22	132.83
25	CF	501	GTP	O6-C6-C5	-2.22	120.05	124.37
25	HH	501	GTP	O6-C6-C5	-2.22	120.05	124.37
25	LH	501	GTP	O4'-C4'-C5'	2.22	116.66	109.37
25	GE	501	GTP	PB-O3B-PG	-2.21	125.23	132.83
25	MH	501	GTP	C2'-C3'-C4'	-2.21	98.34	102.64
25	VD	501	GTP	O6-C6-C5	-2.21	120.05	124.37
25	DE	501	GTP	PA-O3A-PB	-2.21	125.24	132.83
25	BF	501	GTP	O6-C6-C5	-2.21	120.06	124.37
25	CH	501	GTP	C8-N7-C5	2.21	107.19	102.99
25	AG	501	GTP	O6-C6-N1	-2.21	118.05	120.65
25	FH	501	GTP	PA-O3A-PB	-2.20	125.26	132.83
25	PE	501	GTP	PA-O3A-PB	-2.20	125.27	132.83
25	BH	501	GTP	O6-C6-C5	-2.20	120.07	124.37
25	KH	501	GTP	O6-C6-C5	-2.20	120.08	124.37
25	NG	501	GTP	O2G-PG-O3B	2.20	112.01	104.64
25	TH	501	GTP	O6-C6-C5	-2.19	120.09	124.37
25	II	501	GTP	N2-C2-N1	2.19	121.38	116.71
25	KF	501	GTP	O6-C6-C5	-2.19	120.10	124.37
25	GH	502	GTP	PA-O3A-PB	-2.18	125.33	132.83
25	KE	501	GTP	O3G-PG-O3B	2.18	111.95	104.64
25	JE	501	GTP	N2-C2-N1	2.18	121.36	116.71
25	CH	501	GTP	C3'-C2'-C1'	2.18	104.26	100.98
25	TJ	501	GTP	O6-C6-C5	-2.18	120.11	124.37
25	LG	501	GTP	C5-C6-N1	2.18	117.80	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	EE	501	GTP	C2'-C3'-C4'	2.18	106.87	102.64
25	WH	501	GTP	PA-O3A-PB	-2.17	125.37	132.83
25	HF	501	GTP	O4'-C4'-C5'	2.17	116.52	109.37
25	HF	501	GTP	N1-C2-N3	2.17	127.38	123.32
25	VE	501	GTP	PA-O3A-PB	-2.17	125.38	132.83
25	HD	501	GTP	O6-C6-C5	-2.17	120.13	124.37
25	OD	501	GTP	O6-C6-C5	-2.17	120.13	124.37
25	IG	501	GTP	O6-C6-N1	-2.17	118.09	120.65
25	WE	501	GTP	PA-O3A-PB	-2.17	125.39	132.83
25	FE	501	GTP	N2-C2-N1	2.16	121.32	116.71
25	NI	501	GTP	O3G-PG-O2G	-2.16	99.37	107.64
25	CF	501	GTP	C3'-C2'-C1'	2.16	104.23	100.98
25	OD	501	GTP	O5'-C5'-C4'	2.16	116.43	108.99
25	UG	501	GTP	O3G-PG-O3B	2.16	111.88	104.64
25	SJ	501	GTP	PB-O3B-PG	-2.16	125.42	132.83
25	II	501	GTP	C2'-C3'-C4'	2.16	106.83	102.64
25	AE	501	GTP	C8-N7-C5	2.16	107.10	102.99
25	EG	501	GTP	O3G-PG-O1G	2.15	119.10	110.68
25	FD	501	GTP	O6-C6-C5	-2.15	120.18	124.37
25	VE	501	GTP	O3G-PG-O3B	2.15	111.83	104.64
25	DH	501	GTP	C8-N7-C5	2.14	107.07	102.99
25	OF	501	GTP	C3'-C2'-C1'	2.14	104.20	100.98
25	QH	501	GTP	PA-O3A-PB	-2.14	125.48	132.83
25	QE	501	GTP	N1-C2-N3	-2.14	119.32	123.32
25	FD	501	GTP	PB-O3B-PG	-2.14	125.49	132.83
25	DG	501	GTP	PA-O3A-PB	-2.13	125.50	132.83
25	JD	501	GTP	N2-C2-N3	2.13	123.88	119.74
25	LI	501	GTP	C2'-C3'-C4'	2.13	106.77	102.64
25	WF	501	GTP	O4'-C4'-C5'	2.12	116.36	109.37
25	GH	502	GTP	O3G-PG-O3B	2.12	111.75	104.64
25	BI	501	GTP	O3G-PG-O3B	2.12	111.75	104.64
25	SI	501	GTP	PA-O3A-PB	-2.12	125.55	132.83
25	MG	501	GTP	C5-C6-N1	2.12	117.70	113.95
25	ED	501	GTP	C3'-C2'-C1'	2.12	104.17	100.98
25	RJ	501	GTP	PA-O3A-PB	-2.12	125.56	132.83
25	QI	501	GTP	C2'-C3'-C4'	2.11	106.75	102.64
25	DF	501	GTP	N1-C2-N3	-2.11	119.39	123.32
25	WI	501	GTP	PA-O3A-PB	-2.10	125.60	132.83
25	BH	501	GTP	PB-O3B-PG	-2.10	125.61	132.83
25	JG	501	GTP	PA-O3A-PB	-2.10	125.61	132.83
25	HF	501	GTP	C2'-C3'-C4'	-2.10	98.56	102.64
25	RI	501	GTP	PA-O3A-PB	-2.10	125.62	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	OE	501	GTP	C8-N7-C5	2.10	106.99	102.99
25	ME	501	GTP	PA-O3A-PB	-2.10	125.62	132.83
25	AG	501	GTP	C2'-C3'-C4'	2.10	106.72	102.64
25	IH	501	GTP	C8-N7-C5	2.09	106.97	102.99
25	HG	501	GTP	PB-O3B-PG	-2.09	125.66	132.83
25	CG	501	GTP	C2'-C3'-C4'	2.09	106.70	102.64
25	OF	501	GTP	C8-N7-C5	2.08	106.95	102.99
25	LE	501	GTP	O5'-C5'-C4'	2.08	116.14	108.99
25	QE	501	GTP	PB-O3B-PG	-2.07	125.71	132.83
25	GE	501	GTP	N1-C2-N3	-2.07	119.45	123.32
25	CI	501	GTP	N2-C2-N3	-2.07	115.71	119.74
25	JF	501	GTP	PA-O3A-PB	-2.07	125.73	132.83
25	MG	501	GTP	C2'-C3'-C4'	2.07	106.66	102.64
25	VH	501	GTP	PA-O3A-PB	-2.07	125.74	132.83
25	GH	501	GTP	C3'-C2'-C1'	2.06	104.08	100.98
25	OG	501	GTP	C2-N1-C6	-2.06	121.30	125.10
25	UE	501	GTP	PB-O3B-PG	-2.06	125.75	132.83
25	KF	501	GTP	O2G-PG-O3B	2.06	111.55	104.64
25	CF	501	GTP	N1-C2-N3	-2.06	119.47	123.32
25	OF	501	GTP	PA-O3A-PB	-2.06	125.75	132.83
25	GG	501	GTP	C5-C6-N1	2.06	117.59	113.95
25	PI	501	GTP	C2-N1-C6	-2.06	121.30	125.10
25	LG	501	GTP	N1-C2-N3	-2.06	119.47	123.32
25	IF	501	GTP	PA-O3A-PB	-2.06	125.77	132.83
25	PE	501	GTP	C2-N1-C6	-2.05	121.32	125.10
25	SF	501	GTP	N2-C2-N3	2.05	123.73	119.74
25	RI	501	GTP	PB-O3B-PG	-2.05	125.79	132.83
25	PE	501	GTP	C2'-C3'-C4'	2.05	106.62	102.64
25	NG	501	GTP	PB-O3B-PG	-2.05	125.81	132.83
25	HH	501	GTP	PA-O3A-PB	-2.04	125.81	132.83
25	EE	501	GTP	C8-N7-C5	2.04	106.88	102.99
25	QF	501	GTP	C8-N7-C5	2.04	106.88	102.99
25	TF	501	GTP	O6-C6-C5	-2.04	120.38	124.37
25	VE	501	GTP	C2'-C3'-C4'	2.04	106.60	102.64
25	MH	501	GTP	O4'-C4'-C5'	2.04	116.08	109.37
25	JE	501	GTP	C5-C6-N1	2.03	117.54	113.95
25	FF	502	GTP	O3G-PG-O1G	2.03	118.64	110.68
25	OH	501	GTP	O6-C6-C5	-2.03	120.40	124.37
25	VD	501	GTP	N1-C2-N3	-2.03	119.52	123.32
25	UG	501	GTP	C2'-C3'-C4'	2.03	106.59	102.64
25	QG	501	GTP	O3G-PG-O3B	2.02	111.42	104.64
25	OE	501	GTP	N1-C2-N3	-2.02	119.54	123.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	EH	501	GTP	N1-C2-N3	-2.02	119.54	123.32
25	VF	501	GTP	N1-C2-N3	-2.02	119.54	123.32
25	FE	501	GTP	N1-C2-N3	-2.02	119.55	123.32
25	AG	501	GTP	N1-C2-N3	-2.02	119.55	123.32
25	FE	501	GTP	C5-C6-N1	2.02	117.51	113.95
25	GF	501	GTP	N2-C2-N3	2.02	123.66	119.74
25	QH	501	GTP	O6-C6-C5	-2.01	120.44	124.37
25	UE	501	GTP	C8-N7-C5	2.01	106.82	102.99
25	VG	501	GTP	PA-O3A-PB	-2.01	125.93	132.83
25	MI	501	GTP	C2'-C3'-C4'	2.01	106.54	102.64
25	BG	501	GTP	N2-C2-N1	2.01	120.98	116.71
25	KH	501	GTP	N2-C2-N3	2.01	123.64	119.74
25	PE	501	GTP	N2-C2-N1	2.01	120.98	116.71
25	HG	501	GTP	PA-O3A-PB	-2.00	125.95	132.83
25	NE	501	GTP	O3G-PG-O3B	2.00	111.35	104.64
25	SH	501	GTP	PA-O3A-PB	-2.00	125.96	132.83
25	PH	501	GTP	PA-O3A-PB	-2.00	125.96	132.83

There are no chirality outliers.

All (665) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
25	AF	501	GTP	C5'-O5'-PA-O3A
25	AG	501	GTP	C3'-C4'-C5'-O5'
25	AI	501	GTP	O4'-C4'-C5'-O5'
25	AI	501	GTP	C3'-C4'-C5'-O5'
25	BF	501	GTP	C5'-O5'-PA-O1A
25	BF	501	GTP	C5'-O5'-PA-O2A
25	BH	501	GTP	C5'-O5'-PA-O3A
25	BH	501	GTP	O4'-C4'-C5'-O5'
25	BH	501	GTP	C3'-C4'-C5'-O5'
25	BI	501	GTP	O4'-C4'-C5'-O5'
25	BI	501	GTP	C3'-C4'-C5'-O5'
25	CG	501	GTP	C5'-O5'-PA-O1A
25	CJ	501	GTP	C5'-O5'-PA-O3A
25	CJ	501	GTP	C5'-O5'-PA-O1A
25	CJ	501	GTP	C5'-O5'-PA-O2A
25	DD	501	GTP	C5'-O5'-PA-O3A
25	DD	501	GTP	C5'-O5'-PA-O2A
25	DF	501	GTP	C5'-O5'-PA-O2A
25	EE	501	GTP	PB-O3B-PG-O3G
25	EE	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
25	EF	501	GTP	C5'-O5'-PA-O1A
25	EF	501	GTP	C5'-O5'-PA-O2A
25	EH	501	GTP	C5'-O5'-PA-O1A
25	EH	501	GTP	C5'-O5'-PA-O2A
25	FD	501	GTP	C5'-O5'-PA-O1A
25	FD	501	GTP	C5'-O5'-PA-O2A
25	FE	501	GTP	O4'-C4'-C5'-O5'
25	FF	501	GTP	O4'-C4'-C5'-O5'
25	FF	501	GTP	C3'-C4'-C5'-O5'
25	FF	502	GTP	C3'-C4'-C5'-O5'
25	FH	501	GTP	C5'-O5'-PA-O3A
25	GD	501	GTP	C5'-O5'-PA-O1A
25	GD	501	GTP	C5'-O5'-PA-O2A
25	GE	501	GTP	C3'-C4'-C5'-O5'
25	GF	501	GTP	C5'-O5'-PA-O1A
25	GF	501	GTP	C5'-O5'-PA-O2A
25	GH	502	GTP	PB-O3B-PG-O2G
25	HE	501	GTP	O4'-C4'-C5'-O5'
25	HE	501	GTP	C3'-C4'-C5'-O5'
25	HG	501	GTP	C3'-C4'-C5'-O5'
25	HH	501	GTP	PB-O3B-PG-O2G
25	HH	501	GTP	O4'-C4'-C5'-O5'
25	HH	501	GTP	C3'-C4'-C5'-O5'
25	HI	501	GTP	O4'-C4'-C5'-O5'
25	HI	501	GTP	C3'-C4'-C5'-O5'
25	IH	501	GTP	PB-O3B-PG-O2G
25	IH	501	GTP	C5'-O5'-PA-O2A
25	II	501	GTP	C5'-O5'-PA-O1A
25	II	501	GTP	C3'-C4'-C5'-O5'
25	JD	501	GTP	C5'-O5'-PA-O3A
25	JE	501	GTP	O4'-C4'-C5'-O5'
25	JE	501	GTP	C3'-C4'-C5'-O5'
25	JF	501	GTP	C5'-O5'-PA-O1A
25	JF	501	GTP	C5'-O5'-PA-O2A
25	KF	501	GTP	C5'-O5'-PA-O3A
25	KG	501	GTP	C3'-C4'-C5'-O5'
25	KH	501	GTP	C5'-O5'-PA-O3A
25	LF	501	GTP	O4'-C4'-C5'-O5'
25	LF	501	GTP	C3'-C4'-C5'-O5'
25	LH	501	GTP	C5'-O5'-PA-O3A
25	LI	501	GTP	O4'-C4'-C5'-O5'
25	LI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
25	ME	501	GTP	PB-O3B-PG-O2G
25	MF	501	GTP	PB-O3B-PG-O3G
25	MF	501	GTP	C5'-O5'-PA-O2A
25	MH	501	GTP	C5'-O5'-PA-O3A
25	MH	501	GTP	O4'-C4'-C5'-O5'
25	MH	501	GTP	C3'-C4'-C5'-O5'
25	NH	501	GTP	C5'-O5'-PA-O1A
25	NH	501	GTP	C5'-O5'-PA-O2A
25	NI	501	GTP	PB-O3B-PG-O3G
25	OD	501	GTP	C5'-O5'-PA-O2A
25	OE	501	GTP	PB-O3B-PG-O2G
25	OE	501	GTP	O4'-C4'-C5'-O5'
25	OE	501	GTP	C3'-C4'-C5'-O5'
25	OF	501	GTP	C5'-O5'-PA-O1A
25	OF	501	GTP	C5'-O5'-PA-O2A
25	PE	501	GTP	C3'-C4'-C5'-O5'
25	QH	501	GTP	C5'-O5'-PA-O1A
25	QH	501	GTP	C5'-O5'-PA-O2A
25	QI	501	GTP	O4'-C4'-C5'-O5'
25	QI	501	GTP	C3'-C4'-C5'-O5'
25	SE	501	GTP	C3'-C4'-C5'-O5'
25	SH	501	GTP	C5'-O5'-PA-O1A
25	SH	501	GTP	C5'-O5'-PA-O2A
25	TG	501	GTP	O4'-C4'-C5'-O5'
25	TG	501	GTP	C3'-C4'-C5'-O5'
25	TH	501	GTP	C5'-O5'-PA-O2A
25	UD	501	GTP	C5'-O5'-PA-O2A
25	UE	501	GTP	C3'-C4'-C5'-O5'
25	UF	501	GTP	C5'-O5'-PA-O1A
25	UF	501	GTP	C5'-O5'-PA-O2A
25	UG	501	GTP	PB-O3B-PG-O2G
25	UG	501	GTP	O4'-C4'-C5'-O5'
25	UG	501	GTP	C3'-C4'-C5'-O5'
25	UH	501	GTP	C5'-O5'-PA-O2A
25	VE	501	GTP	C3'-C4'-C5'-O5'
25	VF	501	GTP	C5'-O5'-PA-O1A
25	VF	501	GTP	C5'-O5'-PA-O2A
25	WE	501	GTP	PB-O3B-PG-O3G
25	WG	501	GTP	C3'-C4'-C5'-O5'
25	WH	501	GTP	C5'-O5'-PA-O2A
25	AE	501	GTP	O4'-C4'-C5'-O5'
25	AE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
25	AG	501	GTP	O4'-C4'-C5'-O5'
25	AH	501	GTP	C3'-C4'-C5'-O5'
25	BE	501	GTP	O4'-C4'-C5'-O5'
25	BE	501	GTP	C3'-C4'-C5'-O5'
25	BG	501	GTP	O4'-C4'-C5'-O5'
25	BG	501	GTP	C3'-C4'-C5'-O5'
25	CF	501	GTP	C3'-C4'-C5'-O5'
25	CG	501	GTP	O4'-C4'-C5'-O5'
25	CG	501	GTP	C3'-C4'-C5'-O5'
25	CI	501	GTP	O4'-C4'-C5'-O5'
25	CI	501	GTP	C3'-C4'-C5'-O5'
25	DE	501	GTP	O4'-C4'-C5'-O5'
25	DE	501	GTP	C3'-C4'-C5'-O5'
25	EG	501	GTP	O4'-C4'-C5'-O5'
25	EG	501	GTP	C3'-C4'-C5'-O5'
25	FE	501	GTP	C3'-C4'-C5'-O5'
25	GG	501	GTP	O4'-C4'-C5'-O5'
25	GG	501	GTP	C3'-C4'-C5'-O5'
25	GH	502	GTP	O4'-C4'-C5'-O5'
25	GH	502	GTP	C3'-C4'-C5'-O5'
25	IE	501	GTP	O4'-C4'-C5'-O5'
25	IE	501	GTP	C3'-C4'-C5'-O5'
25	IG	501	GTP	O4'-C4'-C5'-O5'
25	IG	501	GTP	C3'-C4'-C5'-O5'
25	JG	501	GTP	O4'-C4'-C5'-O5'
25	JG	501	GTP	C3'-C4'-C5'-O5'
25	KE	501	GTP	O4'-C4'-C5'-O5'
25	KE	501	GTP	C3'-C4'-C5'-O5'
25	KF	501	GTP	C3'-C4'-C5'-O5'
25	KI	501	GTP	O4'-C4'-C5'-O5'
25	KI	501	GTP	C3'-C4'-C5'-O5'
25	LE	501	GTP	O4'-C4'-C5'-O5'
25	LE	501	GTP	C3'-C4'-C5'-O5'
25	LG	501	GTP	O4'-C4'-C5'-O5'
25	LG	501	GTP	C3'-C4'-C5'-O5'
25	MG	501	GTP	O4'-C4'-C5'-O5'
25	MG	501	GTP	C3'-C4'-C5'-O5'
25	MI	501	GTP	O4'-C4'-C5'-O5'
25	MI	501	GTP	C3'-C4'-C5'-O5'
25	NE	501	GTP	O4'-C4'-C5'-O5'
25	NE	501	GTP	C3'-C4'-C5'-O5'
25	NG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
25	NG	501	GTP	C3'-C4'-C5'-O5'
25	NI	501	GTP	O4'-C4'-C5'-O5'
25	NI	501	GTP	C3'-C4'-C5'-O5'
25	OG	501	GTP	O4'-C4'-C5'-O5'
25	OI	501	GTP	O4'-C4'-C5'-O5'
25	OI	501	GTP	C3'-C4'-C5'-O5'
25	PE	501	GTP	O4'-C4'-C5'-O5'
25	PG	501	GTP	O4'-C4'-C5'-O5'
25	PG	501	GTP	C3'-C4'-C5'-O5'
25	PI	501	GTP	O4'-C4'-C5'-O5'
25	PI	501	GTP	C3'-C4'-C5'-O5'
25	QE	501	GTP	O4'-C4'-C5'-O5'
25	QE	501	GTP	C3'-C4'-C5'-O5'
25	QG	501	GTP	O4'-C4'-C5'-O5'
25	QG	501	GTP	C3'-C4'-C5'-O5'
25	RE	501	GTP	O4'-C4'-C5'-O5'
25	RE	501	GTP	C3'-C4'-C5'-O5'
25	RG	501	GTP	O4'-C4'-C5'-O5'
25	RG	501	GTP	C3'-C4'-C5'-O5'
25	RI	501	GTP	O4'-C4'-C5'-O5'
25	RI	501	GTP	C3'-C4'-C5'-O5'
25	SF	501	GTP	C3'-C4'-C5'-O5'
25	SG	501	GTP	O4'-C4'-C5'-O5'
25	SG	501	GTP	C3'-C4'-C5'-O5'
25	SI	501	GTP	O4'-C4'-C5'-O5'
25	SI	501	GTP	C3'-C4'-C5'-O5'
25	TI	501	GTP	O4'-C4'-C5'-O5'
25	TI	501	GTP	C3'-C4'-C5'-O5'
25	VE	501	GTP	O4'-C4'-C5'-O5'
25	VG	501	GTP	O4'-C4'-C5'-O5'
25	VG	501	GTP	C3'-C4'-C5'-O5'
25	WE	501	GTP	O4'-C4'-C5'-O5'
25	WE	501	GTP	C3'-C4'-C5'-O5'
25	WG	501	GTP	O4'-C4'-C5'-O5'
25	WI	501	GTP	O4'-C4'-C5'-O5'
25	WI	501	GTP	C3'-C4'-C5'-O5'
25	AH	501	GTP	O4'-C4'-C5'-O5'
25	CF	501	GTP	O4'-C4'-C5'-O5'
25	DF	501	GTP	C3'-C4'-C5'-O5'
25	FF	502	GTP	O4'-C4'-C5'-O5'
25	GE	501	GTP	O4'-C4'-C5'-O5'
25	HG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
25	II	501	GTP	O4'-C4'-C5'-O5'
25	KF	501	GTP	O4'-C4'-C5'-O5'
25	KG	501	GTP	O4'-C4'-C5'-O5'
25	LH	501	GTP	O4'-C4'-C5'-O5'
25	OG	501	GTP	C3'-C4'-C5'-O5'
25	RF	501	GTP	O4'-C4'-C5'-O5'
25	RF	501	GTP	C3'-C4'-C5'-O5'
25	RJ	501	GTP	O4'-C4'-C5'-O5'
25	RJ	501	GTP	C3'-C4'-C5'-O5'
25	SE	501	GTP	O4'-C4'-C5'-O5'
25	SF	501	GTP	O4'-C4'-C5'-O5'
25	UE	501	GTP	O4'-C4'-C5'-O5'
25	LH	501	GTP	C3'-C4'-C5'-O5'
25	VF	501	GTP	C3'-C4'-C5'-O5'
25	DF	501	GTP	O4'-C4'-C5'-O5'
25	VF	501	GTP	O4'-C4'-C5'-O5'
25	BF	501	GTP	O4'-C4'-C5'-O5'
25	DG	501	GTP	O4'-C4'-C5'-O5'
25	DG	501	GTP	C3'-C4'-C5'-O5'
25	EF	501	GTP	O4'-C4'-C5'-O5'
25	EH	501	GTP	O4'-C4'-C5'-O5'
25	GH	501	GTP	O4'-C4'-C5'-O5'
25	JF	501	GTP	O4'-C4'-C5'-O5'
25	OD	501	GTP	O4'-C4'-C5'-O5'
25	OH	501	GTP	O4'-C4'-C5'-O5'
25	UF	501	GTP	O4'-C4'-C5'-O5'
25	UH	501	GTP	O4'-C4'-C5'-O5'
25	UH	501	GTP	C3'-C4'-C5'-O5'
25	VH	501	GTP	O4'-C4'-C5'-O5'
25	WH	501	GTP	O4'-C4'-C5'-O5'
25	WH	501	GTP	C3'-C4'-C5'-O5'
25	LF	501	GTP	PG-O3B-PB-O3A
25	QI	501	GTP	PG-O3B-PB-O3A
25	UE	501	GTP	PG-O3B-PB-O3A
25	KI	501	GTP	PG-O3B-PB-O3A
25	AG	501	GTP	PG-O3B-PB-O1B
25	AG	501	GTP	PA-O3A-PB-O1B
25	AI	501	GTP	PG-O3B-PB-O1B
25	AI	501	GTP	PA-O3A-PB-O1B
25	BI	501	GTP	PA-O3A-PB-O1B
25	FE	501	GTP	PG-O3B-PB-O1B
25	GH	502	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
25	JD	501	GTP	PA-O3A-PB-O1B
25	KH	501	GTP	PA-O3A-PB-O1B
25	LE	501	GTP	PA-O3A-PB-O1B
25	ME	501	GTP	PG-O3B-PB-O1B
25	ME	501	GTP	PB-O3A-PA-O1A
25	NE	501	GTP	PA-O3A-PB-O1B
25	PG	501	GTP	PG-O3B-PB-O1B
25	QG	501	GTP	PG-O3B-PB-O1B
25	SJ	501	GTP	PG-O3B-PB-O1B
25	WE	501	GTP	PA-O3A-PB-O1B
25	AF	501	GTP	O4'-C4'-C5'-O5'
25	AF	501	GTP	C3'-C4'-C5'-O5'
25	GH	501	GTP	C3'-C4'-C5'-O5'
25	IF	501	GTP	O4'-C4'-C5'-O5'
25	ME	501	GTP	O4'-C4'-C5'-O5'
25	MF	501	GTP	O4'-C4'-C5'-O5'
25	QH	501	GTP	O4'-C4'-C5'-O5'
25	SH	501	GTP	O4'-C4'-C5'-O5'
25	AE	501	GTP	PG-O3B-PB-O3A
25	BG	501	GTP	PG-O3B-PB-O3A
25	CG	501	GTP	PG-O3B-PB-O3A
25	ED	501	GTP	PG-O3B-PB-O3A
25	EG	501	GTP	PG-O3B-PB-O3A
25	HE	501	GTP	PG-O3B-PB-O3A
25	JE	501	GTP	PG-O3B-PB-O3A
25	KE	501	GTP	PG-O3B-PB-O3A
25	MG	501	GTP	PG-O3B-PB-O3A
25	MI	501	GTP	PG-O3B-PB-O3A
25	PE	501	GTP	PG-O3B-PB-O3A
25	RG	501	GTP	PG-O3B-PB-O3A
25	RI	501	GTP	PG-O3B-PB-O3A
25	SE	501	GTP	PG-O3B-PB-O3A
25	SI	501	GTP	PG-O3B-PB-O3A
25	TG	501	GTP	PG-O3B-PB-O3A
25	TI	501	GTP	PG-O3B-PB-O3A
25	UD	501	GTP	PG-O3B-PB-O3A
25	VD	501	GTP	PG-O3B-PB-O3A
25	VE	501	GTP	PG-O3B-PB-O3A
25	WH	501	GTP	PG-O3B-PB-O3A
25	DD	501	GTP	O4'-C4'-C5'-O5'
25	OD	501	GTP	C3'-C4'-C5'-O5'
25	TH	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
25	QE	501	GTP	PG-O3B-PB-O3A
25	VG	501	GTP	PG-O3B-PB-O3A
25	EF	501	GTP	C3'-C4'-C5'-O5'
25	OH	501	GTP	C3'-C4'-C5'-O5'
25	UF	501	GTP	C3'-C4'-C5'-O5'
25	BF	501	GTP	PB-O3B-PG-O1G
25	HG	501	GTP	PB-O3B-PG-O1G
25	KH	501	GTP	PB-O3B-PG-O1G
25	ND	501	GTP	PB-O3B-PG-O1G
25	JG	501	GTP	C4'-C5'-O5'-PA
25	AH	501	GTP	PB-O3B-PG-O3G
25	BH	501	GTP	PB-O3B-PG-O3G
25	GH	501	GTP	PB-O3B-PG-O2G
25	HG	501	GTP	PB-O3B-PG-O3G
25	JE	501	GTP	PB-O3B-PG-O2G
25	OF	501	GTP	PB-O3B-PG-O3G
25	QH	501	GTP	PB-O3B-PG-O2G
25	UH	501	GTP	PB-O3B-PG-O2G
25	WI	501	GTP	PB-O3B-PG-O2G
25	AH	501	GTP	C5'-O5'-PA-O3A
25	CG	501	GTP	C5'-O5'-PA-O3A
25	CH	501	GTP	C5'-O5'-PA-O3A
25	DF	501	GTP	C5'-O5'-PA-O3A
25	FF	502	GTP	C5'-O5'-PA-O3A
25	GE	501	GTP	C5'-O5'-PA-O3A
25	GF	501	GTP	C5'-O5'-PA-O3A
25	IH	501	GTP	C5'-O5'-PA-O3A
25	II	501	GTP	C5'-O5'-PA-O3A
25	JE	501	GTP	C5'-O5'-PA-O3A
25	JF	501	GTP	C5'-O5'-PA-O3A
25	MF	501	GTP	C5'-O5'-PA-O3A
25	ND	501	GTP	C5'-O5'-PA-O3A
25	NF	501	GTP	C5'-O5'-PA-O3A
25	NH	501	GTP	C5'-O5'-PA-O3A
25	OD	501	GTP	C5'-O5'-PA-O3A
25	OF	501	GTP	C5'-O5'-PA-O3A
25	QF	501	GTP	C5'-O5'-PA-O3A
25	QH	501	GTP	C5'-O5'-PA-O3A
25	RH	501	GTP	C5'-O5'-PA-O3A
25	SH	501	GTP	C5'-O5'-PA-O3A
25	TH	501	GTP	C5'-O5'-PA-O3A
25	UD	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
25	UF	501	GTP	C5'-O5'-PA-O3A
25	UG	501	GTP	C5'-O5'-PA-O3A
25	UH	501	GTP	C5'-O5'-PA-O3A
25	VF	501	GTP	C5'-O5'-PA-O3A
25	WH	501	GTP	C5'-O5'-PA-O3A
25	DD	501	GTP	C3'-C4'-C5'-O5'
25	VH	501	GTP	C3'-C4'-C5'-O5'
25	AG	501	GTP	PB-O3A-PA-O2A
25	BF	501	GTP	PA-O3A-PB-O2B
25	CH	501	GTP	PA-O3A-PB-O1B
25	CH	501	GTP	PB-O3A-PA-O2A
25	CI	501	GTP	PA-O3A-PB-O2B
25	DD	501	GTP	PG-O3B-PB-O1B
25	DE	501	GTP	PG-O3B-PB-O1B
25	EH	501	GTP	PB-O3A-PA-O2A
25	FE	501	GTP	PA-O3A-PB-O2B
25	FF	502	GTP	PA-O3A-PB-O2B
25	FF	502	GTP	PB-O3A-PA-O2A
25	FH	501	GTP	PB-O3A-PA-O2A
25	GD	501	GTP	PA-O3A-PB-O2B
25	GF	501	GTP	PA-O3A-PB-O1B
25	GG	501	GTP	PG-O3B-PB-O1B
25	HI	501	GTP	PB-O3A-PA-O2A
25	KF	501	GTP	PB-O3A-PA-O2A
25	KI	501	GTP	PB-O3A-PA-O2A
25	LD	501	GTP	PB-O3A-PA-O1A
25	LG	501	GTP	PB-O3A-PA-O2A
25	LI	501	GTP	PB-O3A-PA-O2A
25	ME	501	GTP	PA-O3A-PB-O1B
25	MF	501	GTP	PB-O3A-PA-O2A
25	MI	501	GTP	PB-O3A-PA-O2A
25	ND	501	GTP	PA-O3A-PB-O1B
25	PG	501	GTP	PB-O3A-PA-O2A
25	SG	501	GTP	PB-O3A-PA-O2A
25	UG	501	GTP	PB-O3A-PA-O2A
25	LI	501	GTP	PG-O3B-PB-O3A
25	NI	501	GTP	C4'-C5'-O5'-PA
25	AF	501	GTP	C5'-O5'-PA-O2A
25	AH	501	GTP	C5'-O5'-PA-O1A
25	AH	501	GTP	C5'-O5'-PA-O2A
25	BH	501	GTP	C5'-O5'-PA-O2A
25	CF	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
25	CG	501	GTP	C5'-O5'-PA-O2A
25	DD	501	GTP	C5'-O5'-PA-O1A
25	DF	501	GTP	C5'-O5'-PA-O1A
25	EE	501	GTP	C5'-O5'-PA-O2A
25	FF	502	GTP	C5'-O5'-PA-O2A
25	FH	501	GTP	C5'-O5'-PA-O1A
25	FH	501	GTP	C5'-O5'-PA-O2A
25	GE	501	GTP	C5'-O5'-PA-O2A
25	GH	501	GTP	C5'-O5'-PA-O1A
25	HD	501	GTP	C5'-O5'-PA-O1A
25	IH	501	GTP	C5'-O5'-PA-O1A
25	II	501	GTP	C5'-O5'-PA-O2A
25	JD	501	GTP	C5'-O5'-PA-O2A
25	JE	501	GTP	C5'-O5'-PA-O2A
25	KF	501	GTP	C5'-O5'-PA-O1A
25	KG	501	GTP	C5'-O5'-PA-O2A
25	KH	501	GTP	C5'-O5'-PA-O2A
25	LG	501	GTP	C5'-O5'-PA-O2A
25	MF	501	GTP	C5'-O5'-PA-O1A
25	ND	501	GTP	C5'-O5'-PA-O1A
25	NF	501	GTP	C5'-O5'-PA-O1A
25	NF	501	GTP	C5'-O5'-PA-O2A
25	NG	501	GTP	C5'-O5'-PA-O2A
25	OD	501	GTP	C5'-O5'-PA-O1A
25	QF	501	GTP	C5'-O5'-PA-O1A
25	RF	501	GTP	C5'-O5'-PA-O1A
25	RH	501	GTP	C5'-O5'-PA-O1A
25	TF	501	GTP	C5'-O5'-PA-O1A
25	TH	501	GTP	C5'-O5'-PA-O1A
25	UD	501	GTP	C5'-O5'-PA-O1A
25	UG	501	GTP	C5'-O5'-PA-O2A
25	UH	501	GTP	C5'-O5'-PA-O1A
25	VD	501	GTP	C5'-O5'-PA-O1A
25	WH	501	GTP	C5'-O5'-PA-O1A
25	EH	501	GTP	C3'-C4'-C5'-O5'
25	NH	501	GTP	O4'-C4'-C5'-O5'
25	QH	501	GTP	C3'-C4'-C5'-O5'
25	QG	501	GTP	C4'-C5'-O5'-PA
25	IE	501	GTP	PG-O3B-PB-O3A
25	OG	501	GTP	PG-O3B-PB-O3A
25	PI	501	GTP	PG-O3B-PB-O3A
25	SF	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
25	VF	501	GTP	PG-O3B-PB-O3A
25	BF	501	GTP	C3'-C4'-C5'-O5'
25	JF	501	GTP	C3'-C4'-C5'-O5'
25	EH	501	GTP	PB-O3B-PG-O1G
25	JF	501	GTP	PB-O3B-PG-O1G
25	EE	501	GTP	PG-O3B-PB-O3A
25	HF	501	GTP	PG-O3B-PB-O3A
25	II	501	GTP	PG-O3B-PB-O3A
25	SG	501	GTP	PG-O3B-PB-O3A
25	TF	501	GTP	PG-O3B-PB-O3A
25	AH	501	GTP	PA-O3A-PB-O1B
25	AI	501	GTP	PB-O3A-PA-O2A
25	BG	501	GTP	PB-O3A-PA-O2A
25	CG	501	GTP	PB-O3A-PA-O2A
25	CI	501	GTP	PB-O3A-PA-O2A
25	EE	501	GTP	PB-O3A-PA-O2A
25	EF	501	GTP	PA-O3A-PB-O2B
25	EG	501	GTP	PB-O3A-PA-O2A
25	GF	501	GTP	PB-O3A-PA-O2A
25	GG	501	GTP	PB-O3A-PA-O2A
25	GH	502	GTP	PB-O3A-PA-O2A
25	HH	501	GTP	PA-O3A-PB-O2B
25	IE	501	GTP	PB-O3A-PA-O2A
25	IG	501	GTP	PB-O3A-PA-O2A
25	IH	501	GTP	PA-O3A-PB-O2B
25	II	501	GTP	PA-O3A-PB-O1B
25	JF	501	GTP	PA-O3A-PB-O2B
25	JG	501	GTP	PB-O3A-PA-O2A
25	KE	501	GTP	PB-O3A-PA-O2A
25	KG	501	GTP	PB-O3A-PA-O2A
25	LE	501	GTP	PB-O3A-PA-O1A
25	MG	501	GTP	PB-O3A-PA-O2A
25	NG	501	GTP	PB-O3A-PA-O2A
25	OF	501	GTP	PA-O3A-PB-O2B
25	OG	501	GTP	PB-O3A-PA-O2A
25	OI	501	GTP	PB-O3A-PA-O2A
25	PG	501	GTP	PA-O3A-PB-O1B
25	PI	501	GTP	PB-O3A-PA-O2A
25	QG	501	GTP	PB-O3A-PA-O1A
25	QI	501	GTP	PB-O3A-PA-O2A
25	RG	501	GTP	PB-O3A-PA-O2A
25	RI	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
25	SI	501	GTP	PB-O3A-PA-O2A
25	WG	501	GTP	PB-O3A-PA-O2A
25	ME	501	GTP	C4'-C5'-O5'-PA
25	QF	501	GTP	O4'-C4'-C5'-O5'
25	NF	501	GTP	PG-O3B-PB-O3A
25	HD	501	GTP	O4'-C4'-C5'-O5'
25	IF	501	GTP	C3'-C4'-C5'-O5'
25	SH	501	GTP	C3'-C4'-C5'-O5'
25	TH	501	GTP	C3'-C4'-C5'-O5'
25	CH	501	GTP	PB-O3B-PG-O1G
25	FH	501	GTP	PB-O3B-PG-O1G
25	TJ	501	GTP	PB-O3B-PG-O1G
25	FF	502	GTP	PG-O3B-PB-O3A
25	GE	501	GTP	PG-O3B-PB-O3A
25	GH	502	GTP	PG-O3B-PB-O3A
25	SH	501	GTP	PG-O3B-PB-O3A
25	AE	501	GTP	PB-O3A-PA-O2A
25	BI	501	GTP	PG-O3B-PB-O3A
25	EE	501	GTP	PA-O3A-PB-O2B
25	EG	501	GTP	PA-O3A-PB-O2B
25	EH	501	GTP	PA-O3A-PB-O1B
25	FE	501	GTP	PB-O3A-PA-O1A
25	GG	501	GTP	PA-O3A-PB-O1B
25	JG	501	GTP	PG-O3B-PB-O3A
25	KG	501	GTP	PA-O3A-PB-O1B
25	LE	501	GTP	PG-O3B-PB-O1B
25	LE	501	GTP	PA-O3A-PB-O2B
25	LE	501	GTP	PB-O3A-PA-O2A
25	LG	501	GTP	PG-O3B-PB-O3A
25	ND	501	GTP	PA-O3A-PB-O2B
25	NE	501	GTP	PG-O3B-PB-O1B
25	NG	501	GTP	PG-O3B-PB-O3A
25	OE	501	GTP	PG-O3B-PB-O3A
25	QG	501	GTP	PB-O3A-PA-O2A
25	QI	501	GTP	PB-O3A-PA-O1A
25	RE	501	GTP	PG-O3B-PB-O3A
25	TG	501	GTP	PB-O3A-PA-O2A
25	WI	501	GTP	PB-O3A-PA-O2A
25	VD	501	GTP	O4'-C4'-C5'-O5'
25	KG	501	GTP	PG-O3B-PB-O3A
25	OH	501	GTP	PG-O3B-PB-O3A
25	OI	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
25	WG	501	GTP	PG-O3B-PB-O3A
25	ME	501	GTP	C3'-C4'-C5'-O5'
25	JD	501	GTP	PB-O3B-PG-O1G
25	PH	501	GTP	PB-O3B-PG-O1G
25	GH	502	GTP	C4'-C5'-O5'-PA
25	CJ	501	GTP	C3'-C4'-C5'-O5'
25	NH	501	GTP	C3'-C4'-C5'-O5'
25	UD	501	GTP	O4'-C4'-C5'-O5'
25	BF	501	GTP	PB-O3B-PG-O2G
25	BF	501	GTP	PB-O3B-PG-O3G
25	BI	501	GTP	PB-O3B-PG-O2G
25	CH	501	GTP	PB-O3B-PG-O2G
25	CH	501	GTP	PB-O3B-PG-O3G
25	EE	501	GTP	PB-O3B-PG-O2G
25	EH	501	GTP	PB-O3B-PG-O2G
25	FE	501	GTP	PB-O3B-PG-O2G
25	FH	501	GTP	PB-O3B-PG-O2G
25	FH	501	GTP	PB-O3B-PG-O3G
25	GF	501	GTP	PB-O3B-PG-O3G
25	HG	501	GTP	PB-O3B-PG-O2G
25	HI	501	GTP	PB-O3B-PG-O2G
25	II	501	GTP	PB-O3B-PG-O2G
25	JD	501	GTP	PB-O3B-PG-O2G
25	JD	501	GTP	PB-O3B-PG-O3G
25	JF	501	GTP	PB-O3B-PG-O2G
25	JF	501	GTP	PB-O3B-PG-O3G
25	JG	501	GTP	PB-O3B-PG-O2G
25	JG	501	GTP	PB-O3B-PG-O3G
25	KF	501	GTP	PB-O3B-PG-O2G
25	KF	501	GTP	PB-O3B-PG-O3G
25	KH	501	GTP	PB-O3B-PG-O2G
25	KH	501	GTP	PB-O3B-PG-O3G
25	LE	501	GTP	PB-O3B-PG-O2G
25	MG	501	GTP	PB-O3B-PG-O2G
25	ND	501	GTP	PB-O3B-PG-O2G
25	ND	501	GTP	PB-O3B-PG-O3G
25	NI	501	GTP	PB-O3B-PG-O2G
25	PG	501	GTP	PB-O3B-PG-O2G
25	PH	501	GTP	PB-O3B-PG-O2G
25	QG	501	GTP	PB-O3B-PG-O2G
25	QI	501	GTP	PB-O3B-PG-O2G
25	RJ	501	GTP	PB-O3B-PG-O2G

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Mol	Chain	Res	Type	Atoms
25	TH	501	GTP	PB-O3B-PG-O2G
25	TJ	501	GTP	PB-O3B-PG-O3G
25	UE	501	GTP	PB-O3B-PG-O2G
25	WE	501	GTP	PB-O3B-PG-O2G
25	BF	501	GTP	C5'-O5'-PA-O3A
25	CF	501	GTP	C5'-O5'-PA-O3A
25	EF	501	GTP	C5'-O5'-PA-O3A
25	EH	501	GTP	C5'-O5'-PA-O3A
25	FD	501	GTP	C5'-O5'-PA-O3A
25	GD	501	GTP	C5'-O5'-PA-O3A
25	GH	501	GTP	C5'-O5'-PA-O3A
25	HD	501	GTP	C5'-O5'-PA-O3A
25	KG	501	GTP	C5'-O5'-PA-O3A
25	LF	501	GTP	C5'-O5'-PA-O3A
25	RF	501	GTP	C5'-O5'-PA-O3A
25	TF	501	GTP	C5'-O5'-PA-O3A
25	VD	501	GTP	C5'-O5'-PA-O3A
25	AE	501	GTP	PB-O3A-PA-O1A
25	AG	501	GTP	PA-O3A-PB-O2B
25	AH	501	GTP	PA-O3A-PB-O2B
25	AI	501	GTP	PA-O3A-PB-O2B
25	AI	501	GTP	PB-O3A-PA-O1A
25	BF	501	GTP	PA-O3A-PB-O1B
25	BG	501	GTP	PB-O3A-PA-O1A
25	BH	501	GTP	PA-O3A-PB-O2B
25	BH	501	GTP	PB-O3A-PA-O2A
25	BI	501	GTP	PG-O3B-PB-O1B
25	CG	501	GTP	PB-O3A-PA-O1A
25	CI	501	GTP	PA-O3A-PB-O1B
25	CI	501	GTP	PB-O3A-PA-O1A
25	DF	501	GTP	PG-O3B-PB-O2B
25	EE	501	GTP	PG-O3B-PB-O1B
25	EE	501	GTP	PB-O3A-PA-O1A
25	EG	501	GTP	PB-O3A-PA-O1A
25	EH	501	GTP	PB-O3A-PA-O1A
25	FE	501	GTP	PA-O3A-PB-O1B
25	FE	501	GTP	PB-O3A-PA-O2A
25	FF	502	GTP	PG-O3B-PB-O1B
25	FH	501	GTP	PB-O3A-PA-O1A
25	GD	501	GTP	PA-O3A-PB-O1B
25	GE	501	GTP	PG-O3B-PB-O2B
25	GF	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
25	GG	501	GTP	PA-O3A-PB-O2B
25	GG	501	GTP	PB-O3A-PA-O1A
25	GH	502	GTP	PG-O3B-PB-O1B
25	GH	502	GTP	PG-O3B-PB-O2B
25	HF	501	GTP	PG-O3B-PB-O1B
25	HH	501	GTP	PA-O3A-PB-O1B
25	HH	501	GTP	PB-O3A-PA-O1A
25	HH	501	GTP	PB-O3A-PA-O2A
25	IE	501	GTP	PG-O3B-PB-O1B
25	IE	501	GTP	PG-O3B-PB-O2B
25	IE	501	GTP	PB-O3A-PA-O1A
25	IG	501	GTP	PB-O3A-PA-O1A
25	IH	501	GTP	PA-O3A-PB-O1B
25	II	501	GTP	PG-O3B-PB-O1B
25	II	501	GTP	PB-O3A-PA-O2A
25	JD	501	GTP	PA-O3A-PB-O2B
25	JD	501	GTP	PB-O3A-PA-O1A
25	JD	501	GTP	PB-O3A-PA-O2A
25	JF	501	GTP	PA-O3A-PB-O1B
25	JG	501	GTP	PG-O3B-PB-O1B
25	JG	501	GTP	PG-O3B-PB-O2B
25	JG	501	GTP	PB-O3A-PA-O1A
25	KE	501	GTP	PB-O3A-PA-O1A
25	KF	501	GTP	PB-O3A-PA-O1A
25	KG	501	GTP	PG-O3B-PB-O1B
25	KG	501	GTP	PB-O3A-PA-O1A
25	KH	501	GTP	PA-O3A-PB-O2B
25	KH	501	GTP	PB-O3A-PA-O1A
25	KH	501	GTP	PB-O3A-PA-O2A
25	LG	501	GTP	PG-O3B-PB-O1B
25	LI	501	GTP	PG-O3B-PB-O1B
25	ME	501	GTP	PA-O3A-PB-O2B
25	ME	501	GTP	PB-O3A-PA-O2A
25	MF	501	GTP	PB-O3A-PA-O1A
25	MG	501	GTP	PG-O3B-PB-O1B
25	MG	501	GTP	PG-O3B-PB-O2B
25	MG	501	GTP	PB-O3A-PA-O1A
25	MI	501	GTP	PG-O3B-PB-O2B
25	NE	501	GTP	PB-O3A-PA-O2A
25	NG	501	GTP	PG-O3B-PB-O1B
25	OE	501	GTP	PG-O3B-PB-O2B
25	OG	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
25	OG	501	GTP	PG-O3B-PB-O2B
25	OH	501	GTP	PG-O3B-PB-O2B
25	OI	501	GTP	PB-O3A-PA-O1A
25	PE	501	GTP	PA-O3A-PB-O1B
25	PG	501	GTP	PA-O3A-PB-O2B
25	PI	501	GTP	PG-O3B-PB-O1B
25	PI	501	GTP	PB-O3A-PA-O1A
25	QE	501	GTP	PB-O3A-PA-O2A
25	QF	501	GTP	PG-O3B-PB-O2B
25	QH	501	GTP	PA-O3A-PB-O1B
25	QH	501	GTP	PA-O3A-PB-O2B
25	RE	501	GTP	PG-O3B-PB-O2B
25	RE	501	GTP	PB-O3A-PA-O1A
25	RE	501	GTP	PB-O3A-PA-O2A
25	RF	501	GTP	PG-O3B-PB-O2B
25	RG	501	GTP	PB-O3A-PA-O1A
25	RH	501	GTP	PG-O3B-PB-O2B
25	SE	501	GTP	PB-O3A-PA-O2A
25	SF	501	GTP	PG-O3B-PB-O1B
25	SG	501	GTP	PG-O3B-PB-O1B
25	SG	501	GTP	PG-O3B-PB-O2B
25	SI	501	GTP	PB-O3A-PA-O1A
25	TG	501	GTP	PG-O3B-PB-O1B
25	TI	501	GTP	PB-O3A-PA-O1A
25	TI	501	GTP	PB-O3A-PA-O2A
25	UG	501	GTP	PA-O3A-PB-O1B
25	VD	501	GTP	PG-O3B-PB-O1B
25	VE	501	GTP	PB-O3A-PA-O2A
25	VF	501	GTP	PG-O3B-PB-O2B
25	VG	501	GTP	PG-O3B-PB-O1B
25	VG	501	GTP	PG-O3B-PB-O2B
25	WE	501	GTP	PG-O3B-PB-O1B
25	WG	501	GTP	PG-O3B-PB-O1B
25	WG	501	GTP	PB-O3A-PA-O1A
25	IG	501	GTP	PG-O3B-PB-O3A
25	AF	501	GTP	C5'-O5'-PA-O1A
25	BH	501	GTP	C5'-O5'-PA-O1A
25	CH	501	GTP	C5'-O5'-PA-O2A
25	ED	501	GTP	C5'-O5'-PA-O1A
25	FF	502	GTP	C5'-O5'-PA-O1A
25	IF	501	GTP	C5'-O5'-PA-O1A
25	JD	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
25	KD	501	GTP	C5'-O5'-PA-O1A
25	KH	501	GTP	C5'-O5'-PA-O1A
25	LD	501	GTP	C5'-O5'-PA-O1A
25	MH	501	GTP	C5'-O5'-PA-O2A
25	ND	501	GTP	C5'-O5'-PA-O2A
25	OH	501	GTP	C5'-O5'-PA-O1A
25	OI	501	GTP	C5'-O5'-PA-O1A
25	RH	501	GTP	C5'-O5'-PA-O2A
25	RI	501	GTP	C5'-O5'-PA-O1A
25	RJ	501	GTP	C5'-O5'-PA-O1A
25	VH	501	GTP	C5'-O5'-PA-O1A
25	GH	501	GTP	PB-O3B-PG-O1G
25	KF	501	GTP	PB-O3B-PG-O1G
25	AF	501	GTP	PG-O3B-PB-O3A
25	WI	501	GTP	PG-O3B-PB-O3A

There are no ring outliers.

123 monomers are involved in 812 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	SG	501	GTP	9	0
25	KF	501	GTP	9	0
25	SI	501	GTP	5	0
25	AF	501	GTP	5	0
25	LG	501	GTP	5	0
25	SH	501	GTP	9	0
25	CI	501	GTP	5	0
25	OD	501	GTP	7	0
25	EF	501	GTP	7	0
25	II	501	GTP	7	0
25	BF	501	GTP	9	0
25	SJ	501	GTP	7	0
25	LE	501	GTP	9	0
25	JH	501	GTP	5	0
25	NH	501	GTP	7	0
25	NE	501	GTP	5	0
25	GE	501	GTP	7	0
25	WG	501	GTP	9	0
25	GF	501	GTP	6	0
25	AE	501	GTP	3	0
25	VE	501	GTP	4	0
25	KI	501	GTP	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	LF	501	GTP	3	0
25	WE	501	GTP	7	0
25	DF	501	GTP	8	0
25	IG	501	GTP	3	0
25	TI	501	GTP	8	0
25	RF	501	GTP	11	0
25	QG	501	GTP	4	0
25	NF	501	GTP	4	0
25	CG	501	GTP	6	0
25	QE	501	GTP	9	0
25	WH	501	GTP	9	0
25	KH	501	GTP	5	0
25	HI	501	GTP	9	0
25	JE	501	GTP	12	0
25	RE	501	GTP	3	0
25	OH	501	GTP	7	0
25	FF	501	GTP	3	0
25	DD	501	GTP	2	0
25	EE	501	GTP	10	0
25	GD	501	GTP	5	0
25	LH	501	GTP	6	0
25	SF	501	GTP	8	0
25	HG	501	GTP	5	0
25	ND	501	GTP	6	0
25	WF	501	GTP	6	0
25	VH	501	GTP	7	0
25	UD	501	GTP	6	0
25	EG	501	GTP	13	0
25	NG	501	GTP	5	0
25	UG	501	GTP	5	0
25	PF	501	GTP	7	0
25	UH	501	GTP	8	0
25	OE	501	GTP	7	0
25	RH	501	GTP	9	0
25	JD	501	GTP	4	0
25	CH	501	GTP	4	0
25	RI	501	GTP	6	0
25	PE	501	GTP	10	0
25	TJ	501	GTP	6	0
25	FH	501	GTP	4	0
25	TG	501	GTP	7	0
25	MG	501	GTP	11	0

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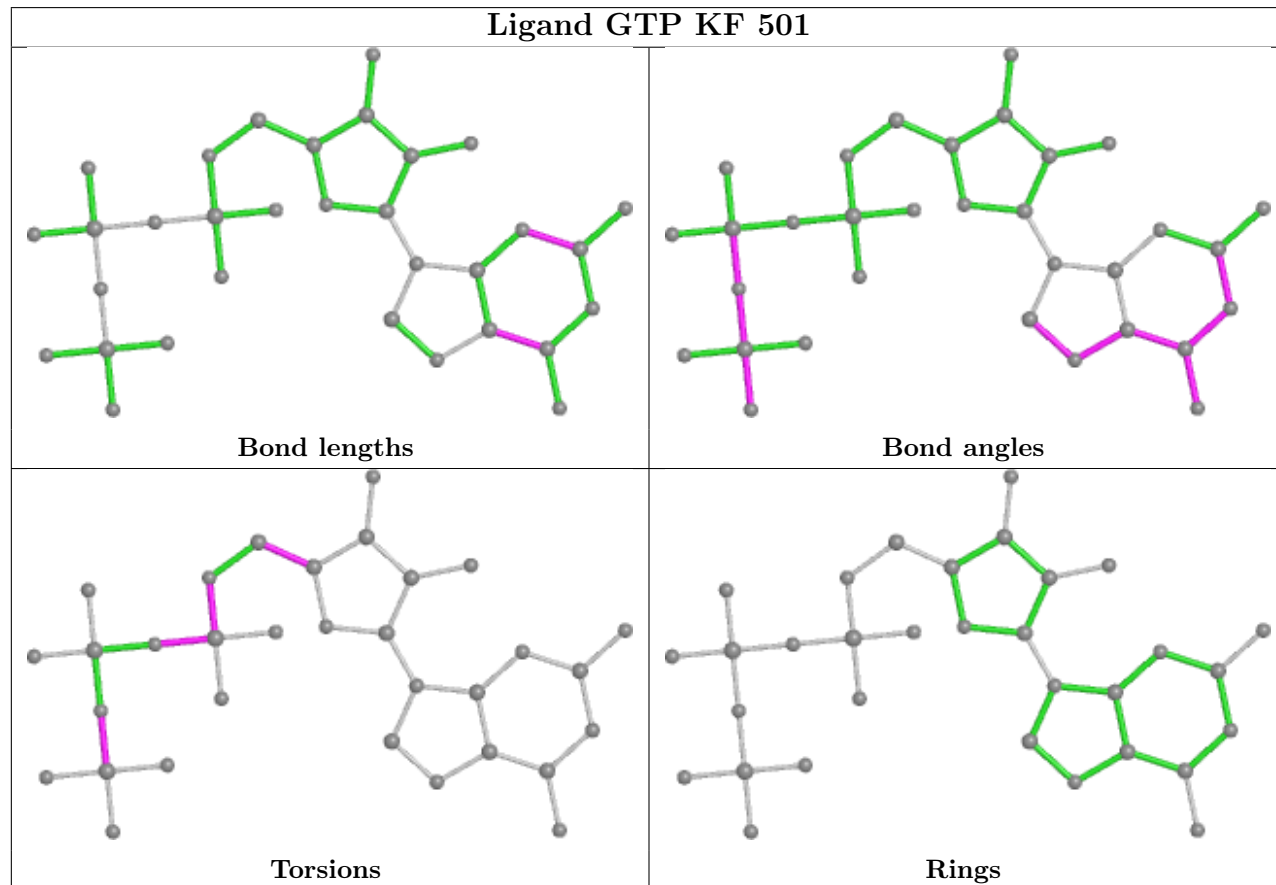
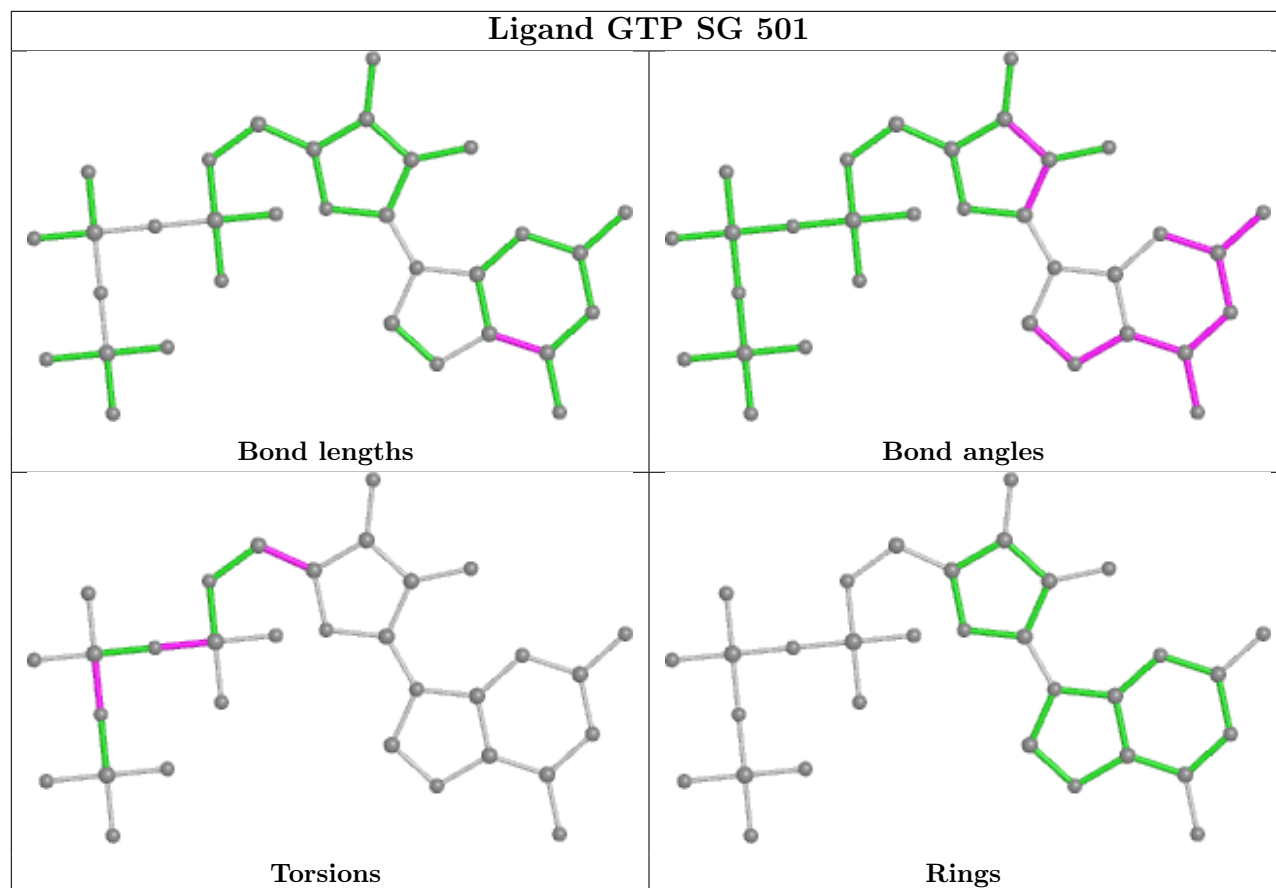
Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	VF	501	GTP	8	0
25	QF	501	GTP	6	0
25	IH	501	GTP	9	0
25	DH	501	GTP	6	0
25	LD	501	GTP	6	0
25	KD	501	GTP	5	0
25	FE	501	GTP	9	0
25	PG	501	GTP	4	0
25	VG	501	GTP	2	0
25	RJ	501	GTP	10	0
25	BH	501	GTP	9	0
25	ME	501	GTP	5	0
25	NI	501	GTP	5	0
25	SE	501	GTP	4	0
25	EH	501	GTP	6	0
25	MI	501	GTP	4	0
25	IE	501	GTP	3	0
25	TF	501	GTP	7	0
25	MF	501	GTP	10	0
25	BE	501	GTP	4	0
25	JG	501	GTP	3	0
25	AI	501	GTP	6	0
25	IF	501	GTP	8	0
25	UF	501	GTP	9	0
25	GH	502	GTP	5	0
25	KE	501	GTP	6	0
25	JF	501	GTP	9	0
25	LI	501	GTP	7	0
25	RG	501	GTP	5	0
25	QH	501	GTP	11	0
25	OF	501	GTP	10	0
25	KG	501	GTP	5	0
25	MH	501	GTP	3	0
25	TH	501	GTP	7	0
25	VD	501	GTP	5	0
25	PI	501	GTP	11	0
25	HH	501	GTP	4	0
25	CJ	501	GTP	4	0
25	PH	501	GTP	7	0
25	WI	501	GTP	5	0
25	UE	501	GTP	5	0
25	AH	501	GTP	8	0

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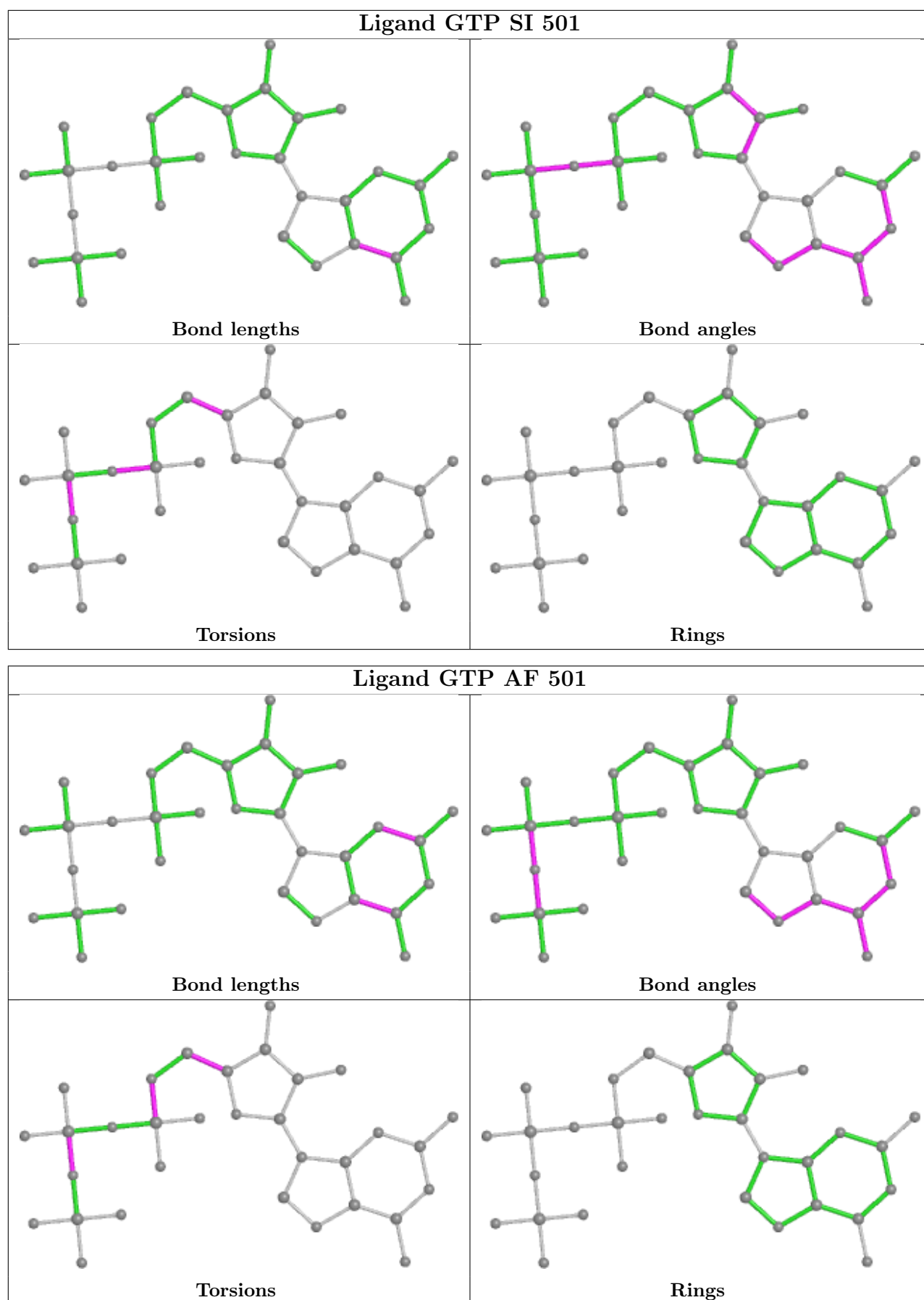
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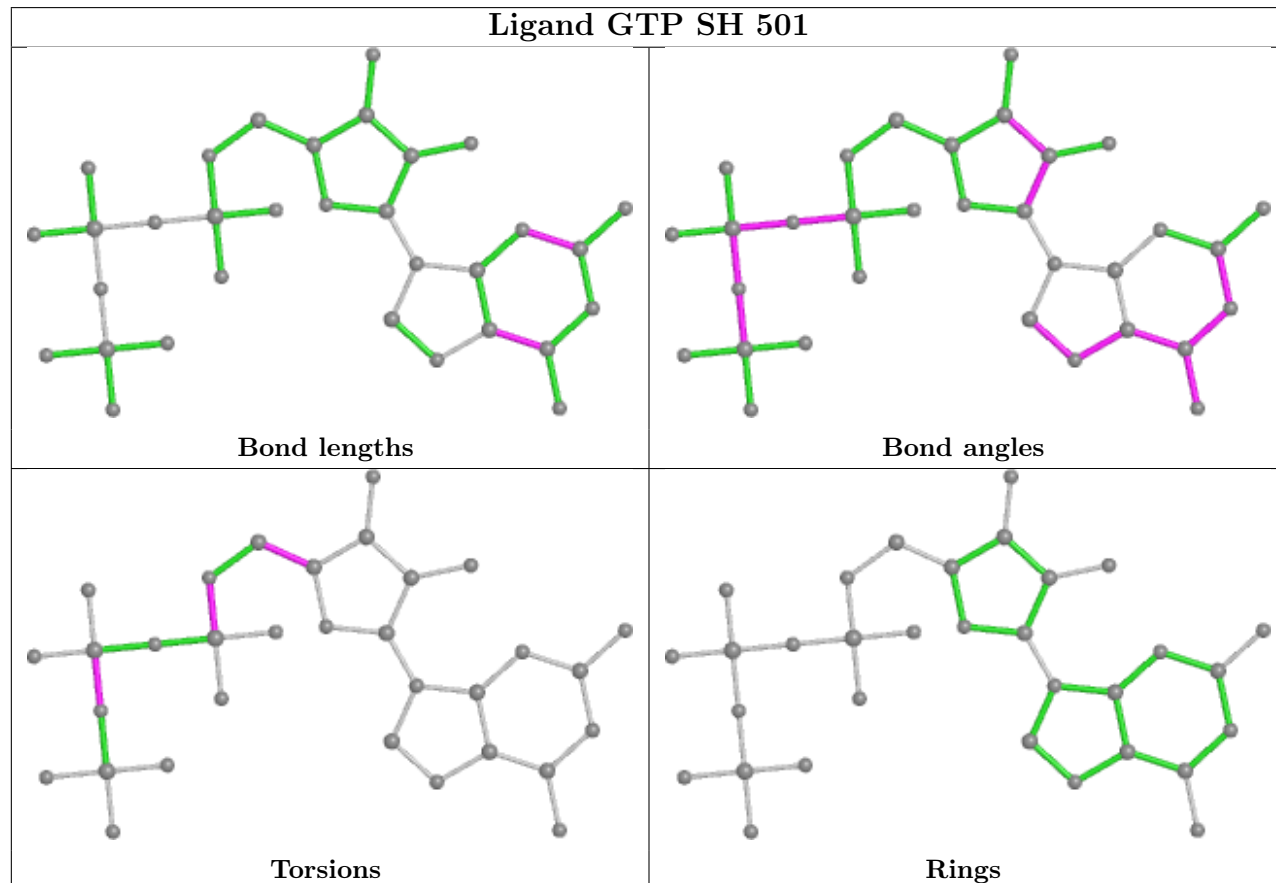
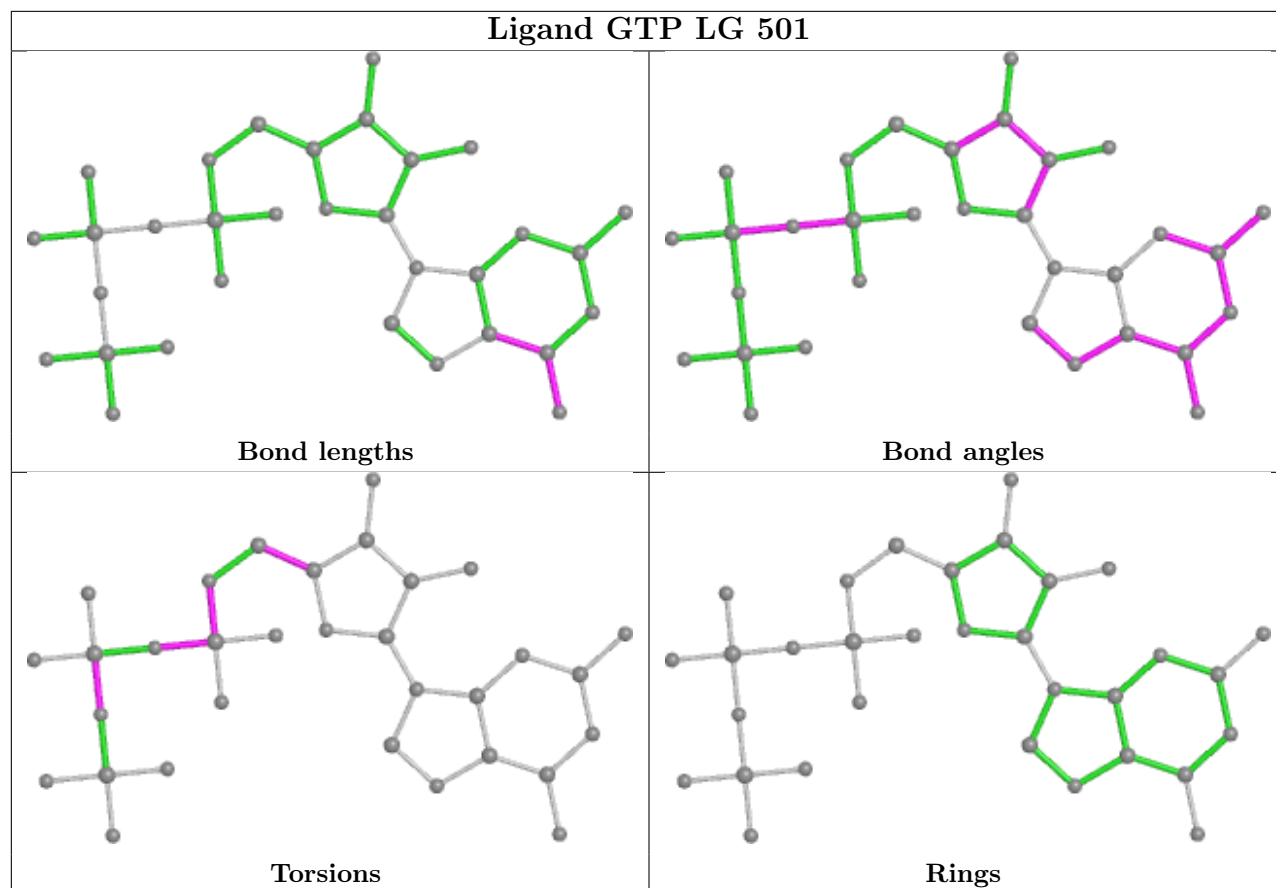
Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	ED	501	GTP	5	0
25	AG	501	GTP	4	0
25	HE	501	GTP	4	0
25	OI	501	GTP	6	0
25	GH	501	GTP	7	0
25	HF	501	GTP	3	0
25	BI	501	GTP	8	0
25	HD	501	GTP	10	0
25	BG	501	GTP	11	0
25	OG	501	GTP	7	0
25	QI	501	GTP	9	0
25	FD	501	GTP	9	0
25	GG	501	GTP	6	0
25	FF	502	GTP	10	0
25	CF	501	GTP	6	0
25	DG	501	GTP	9	0
25	DE	501	GTP	11	0

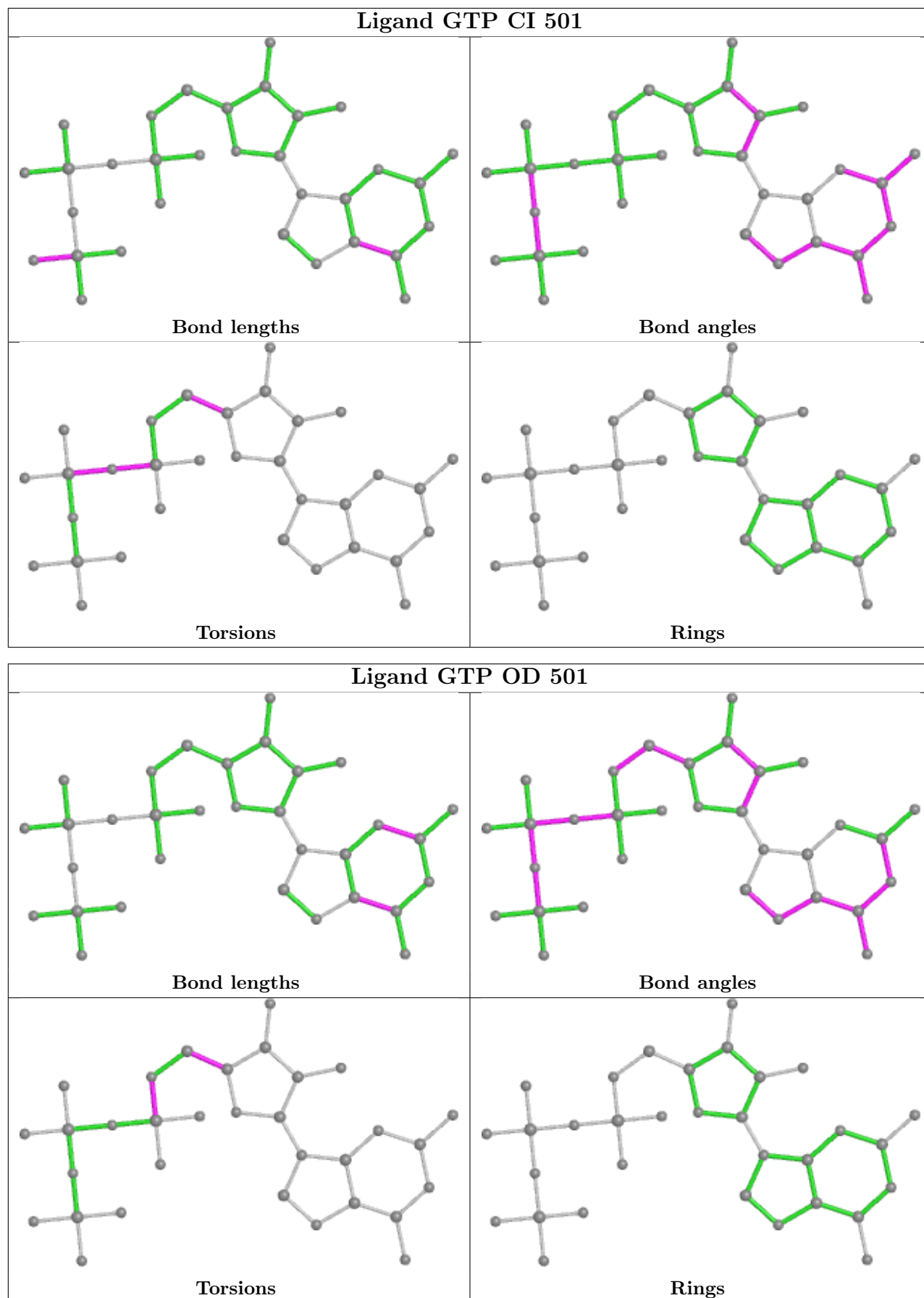
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

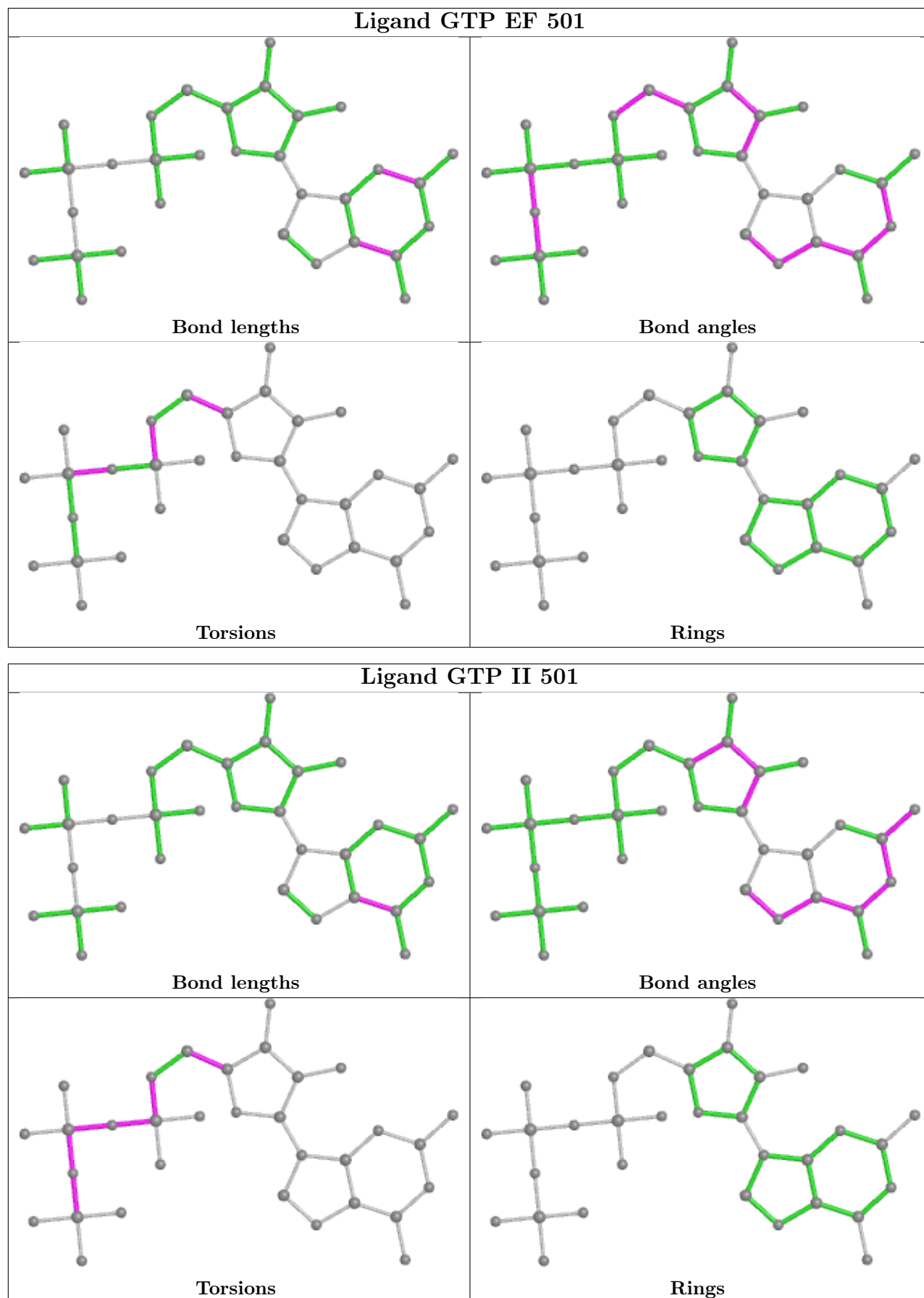


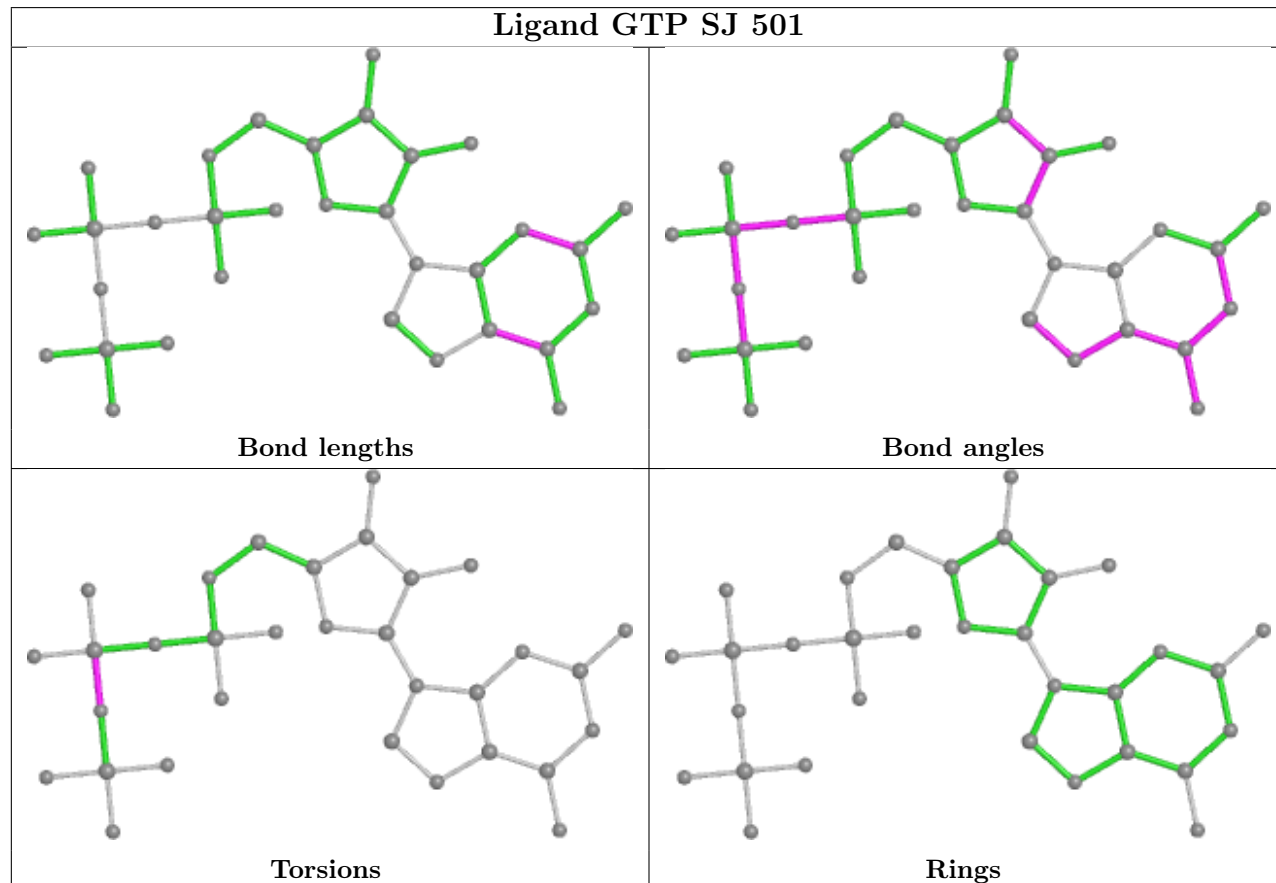
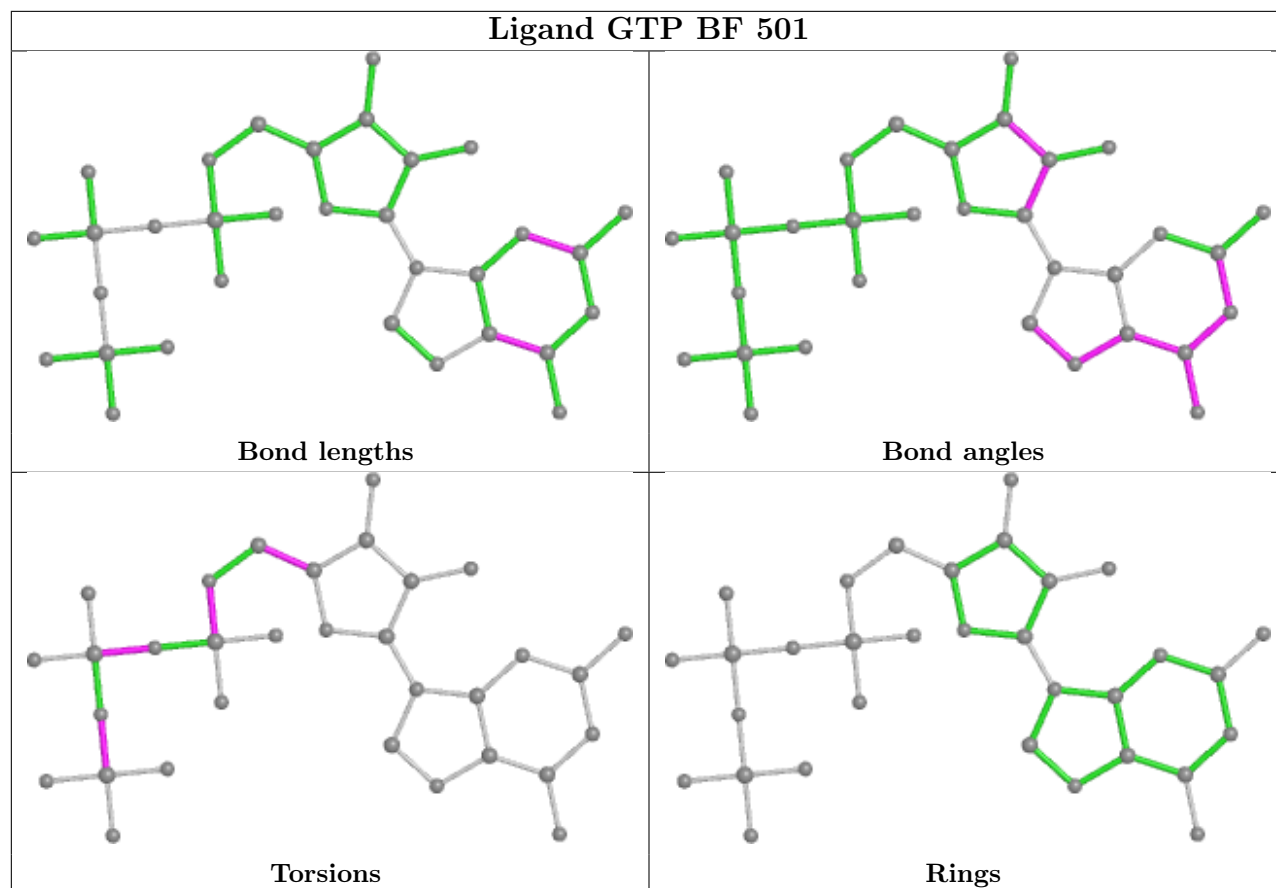


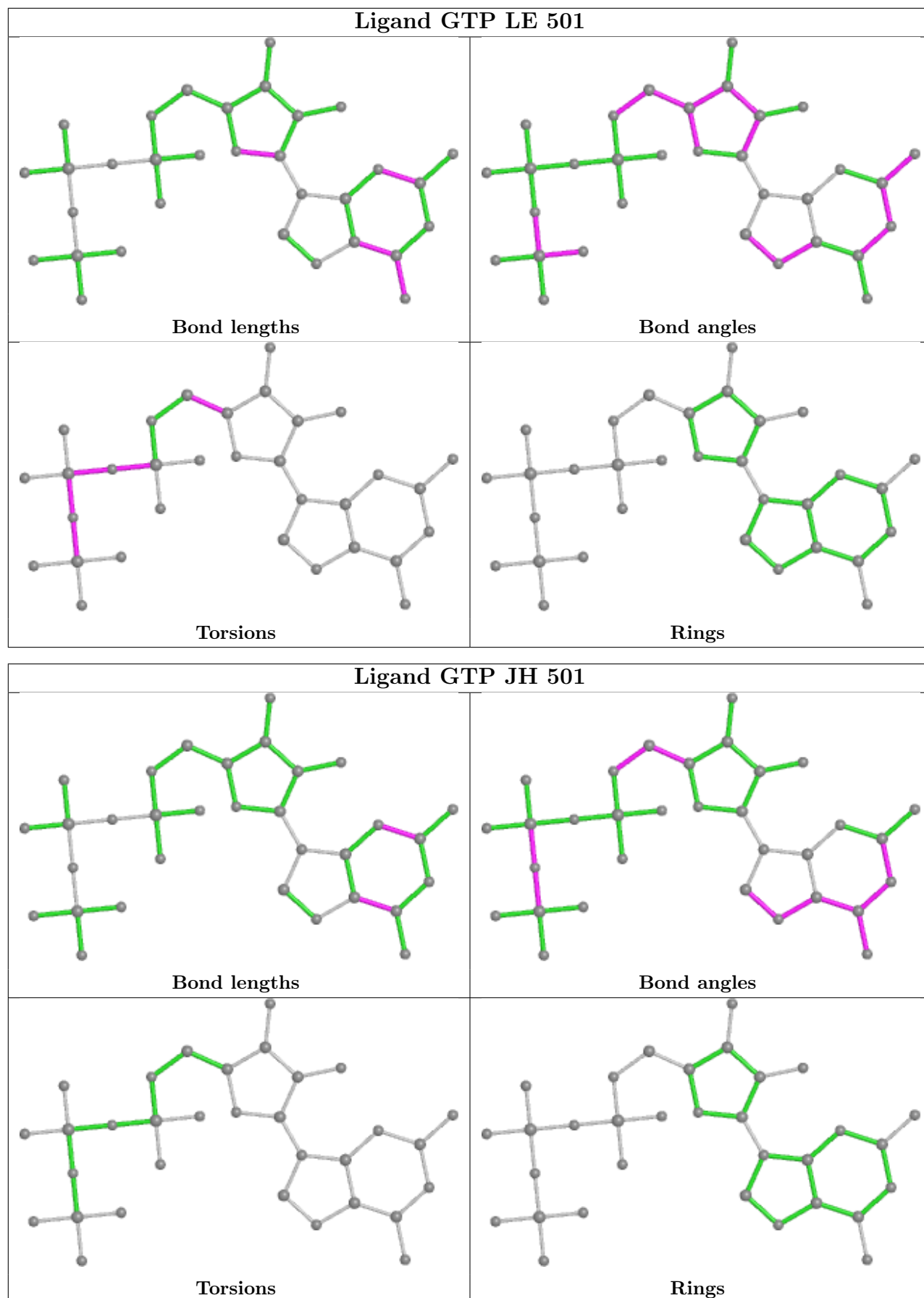


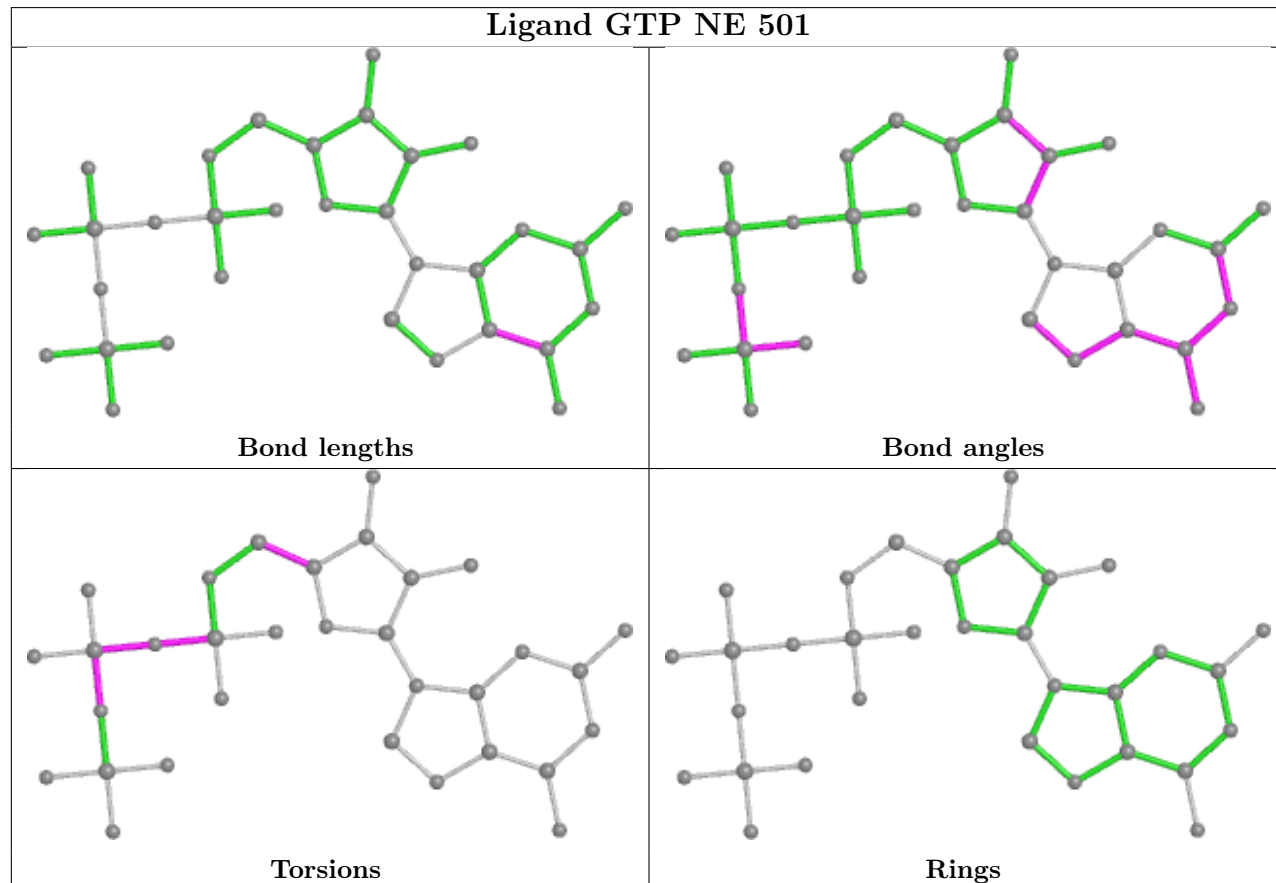
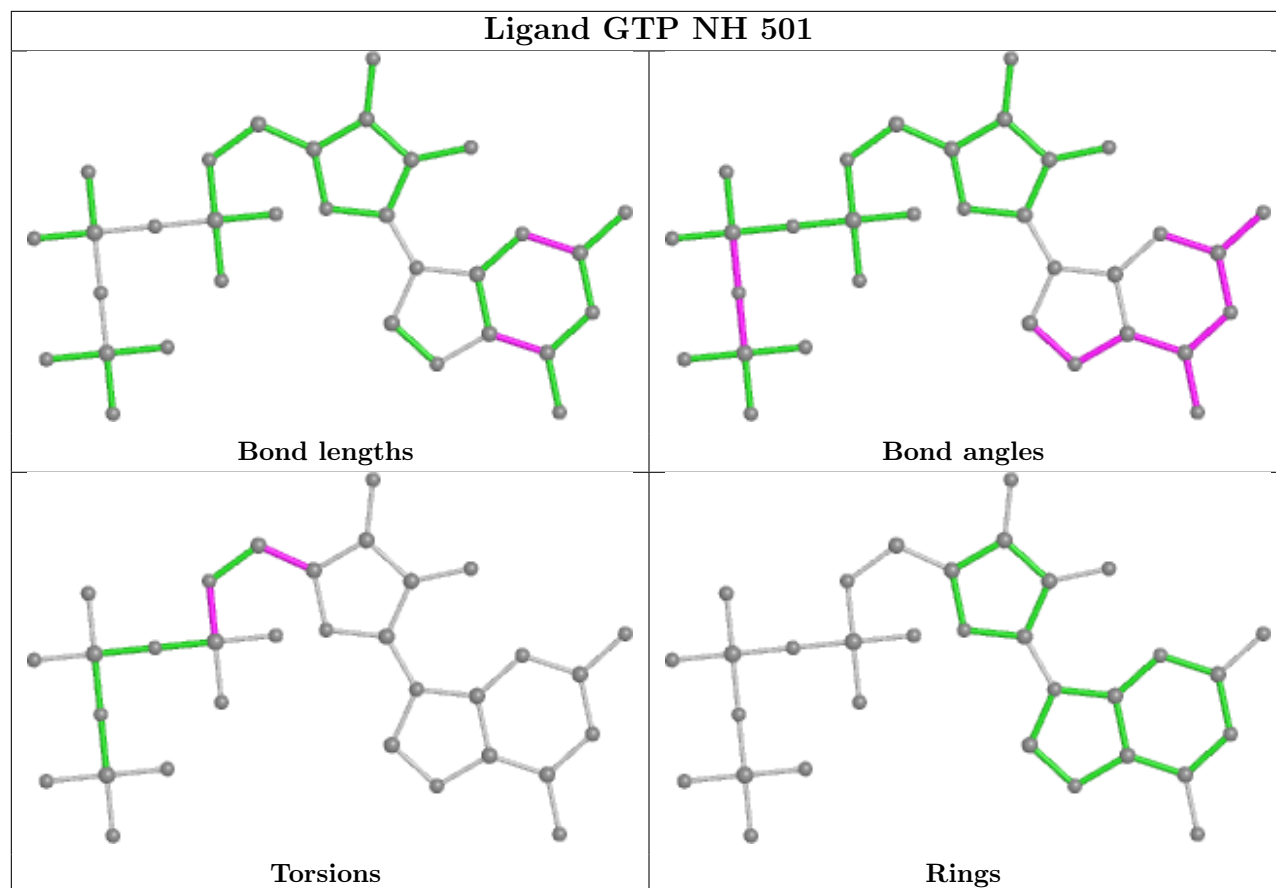




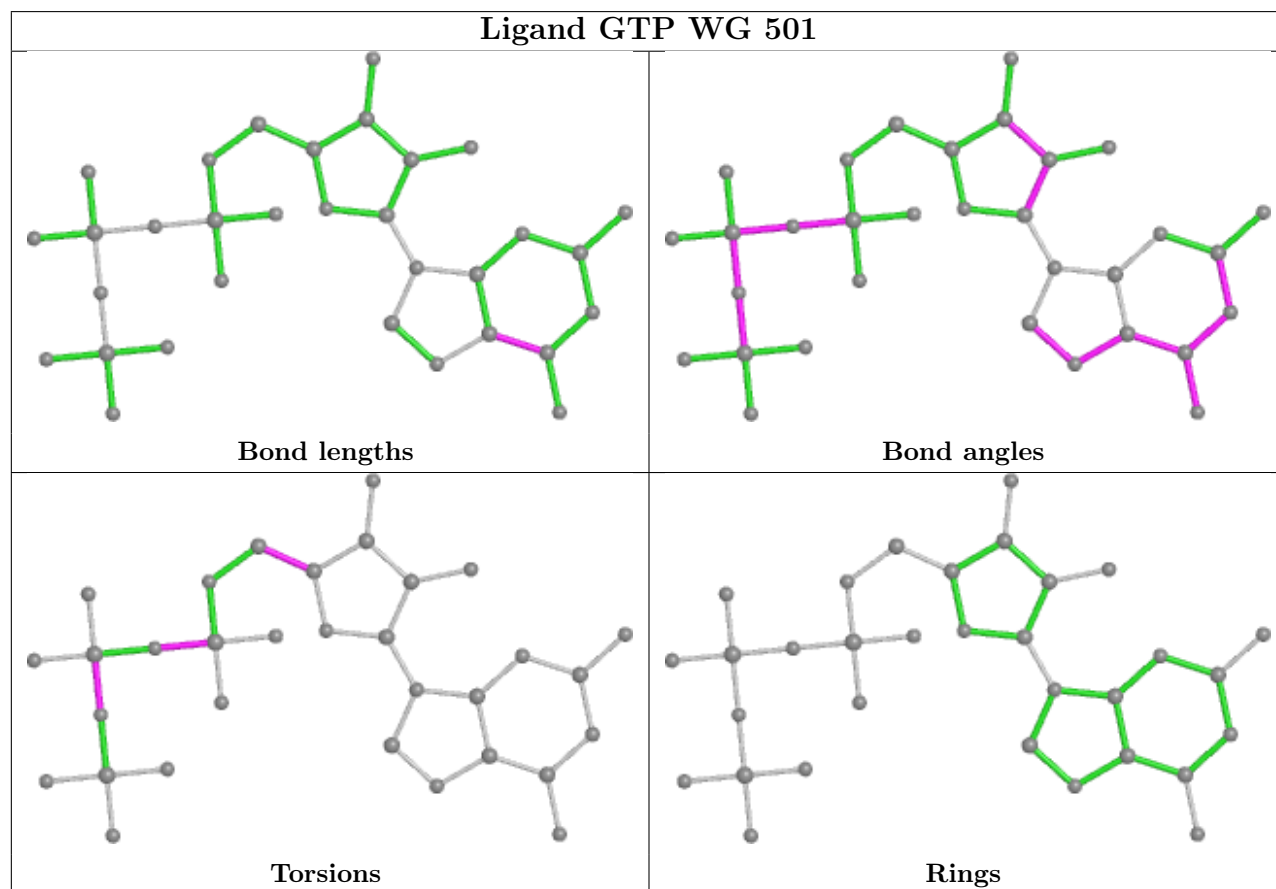
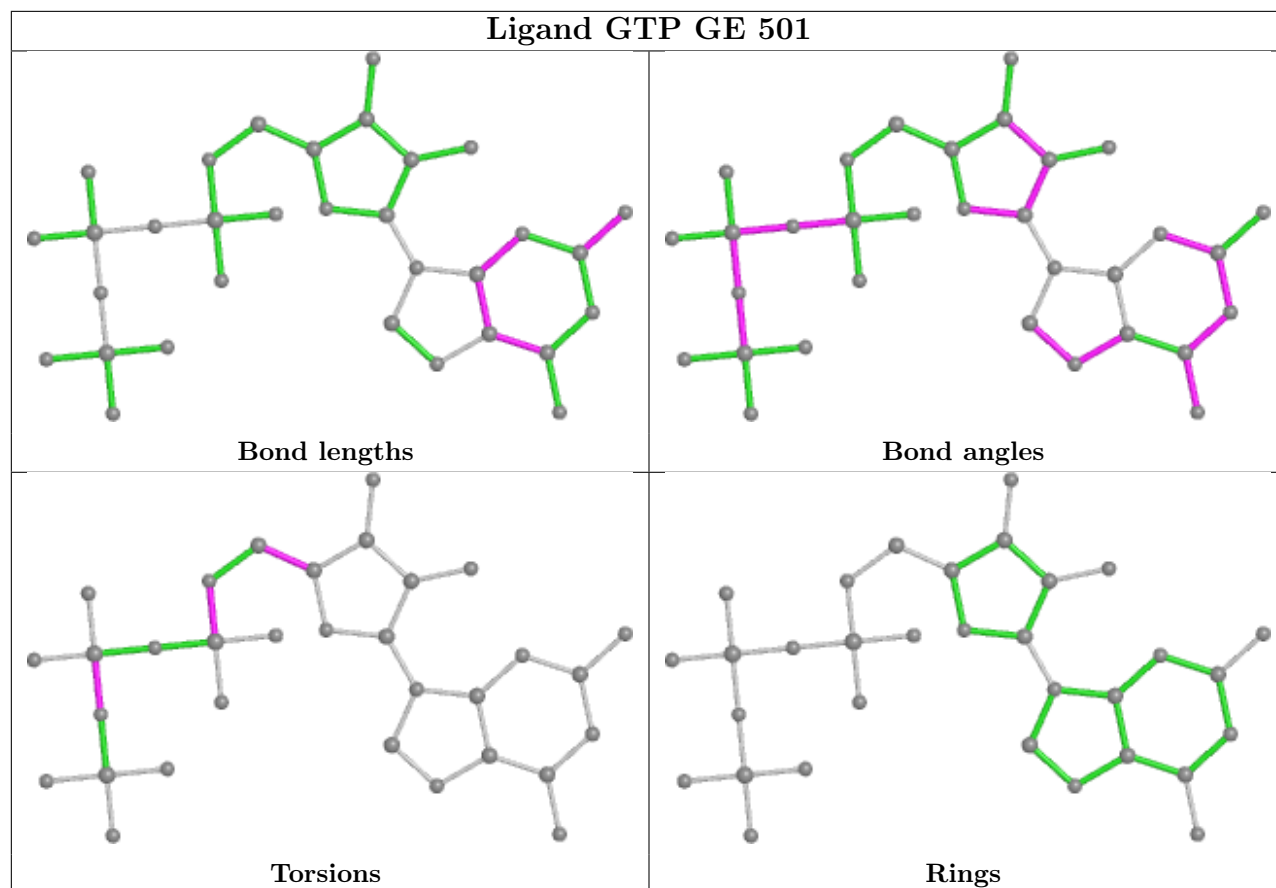


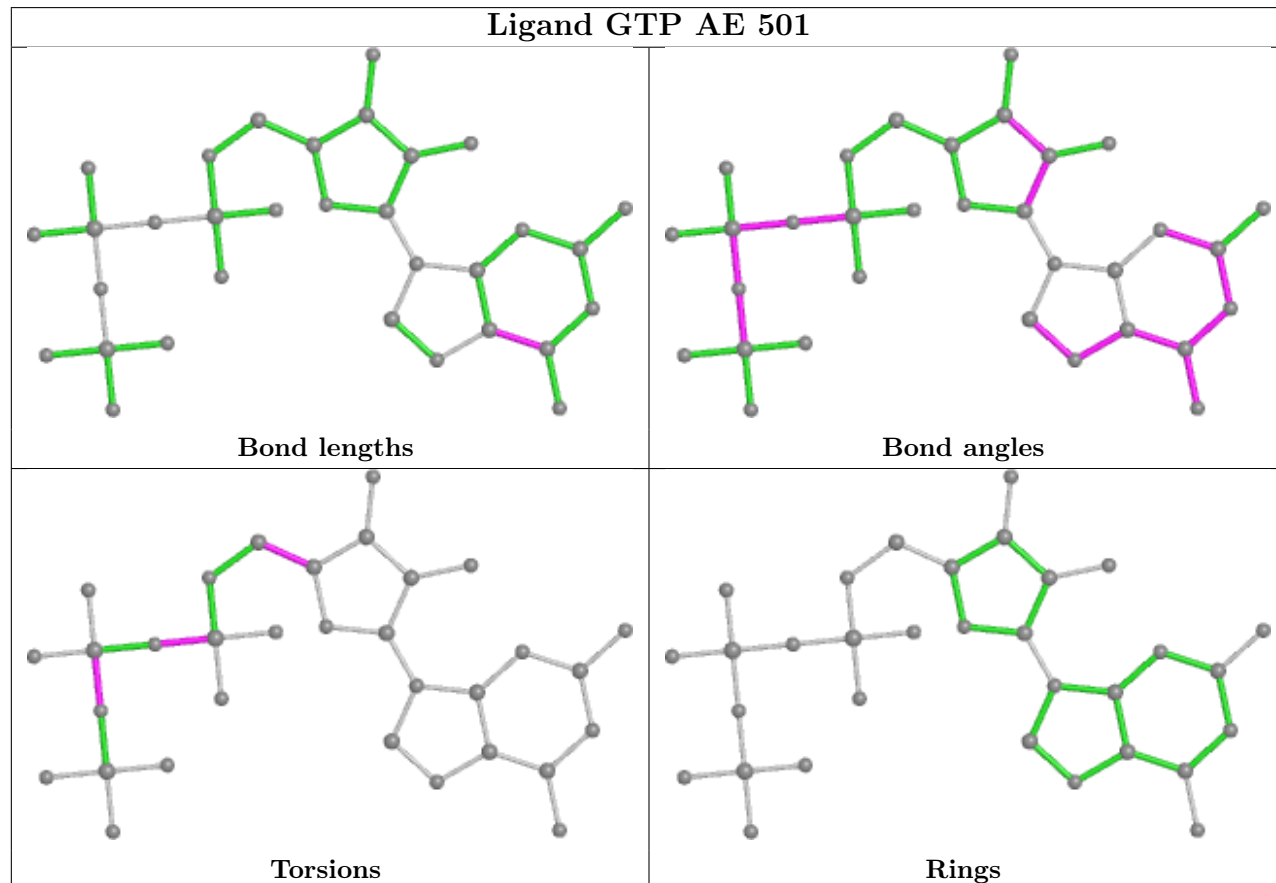
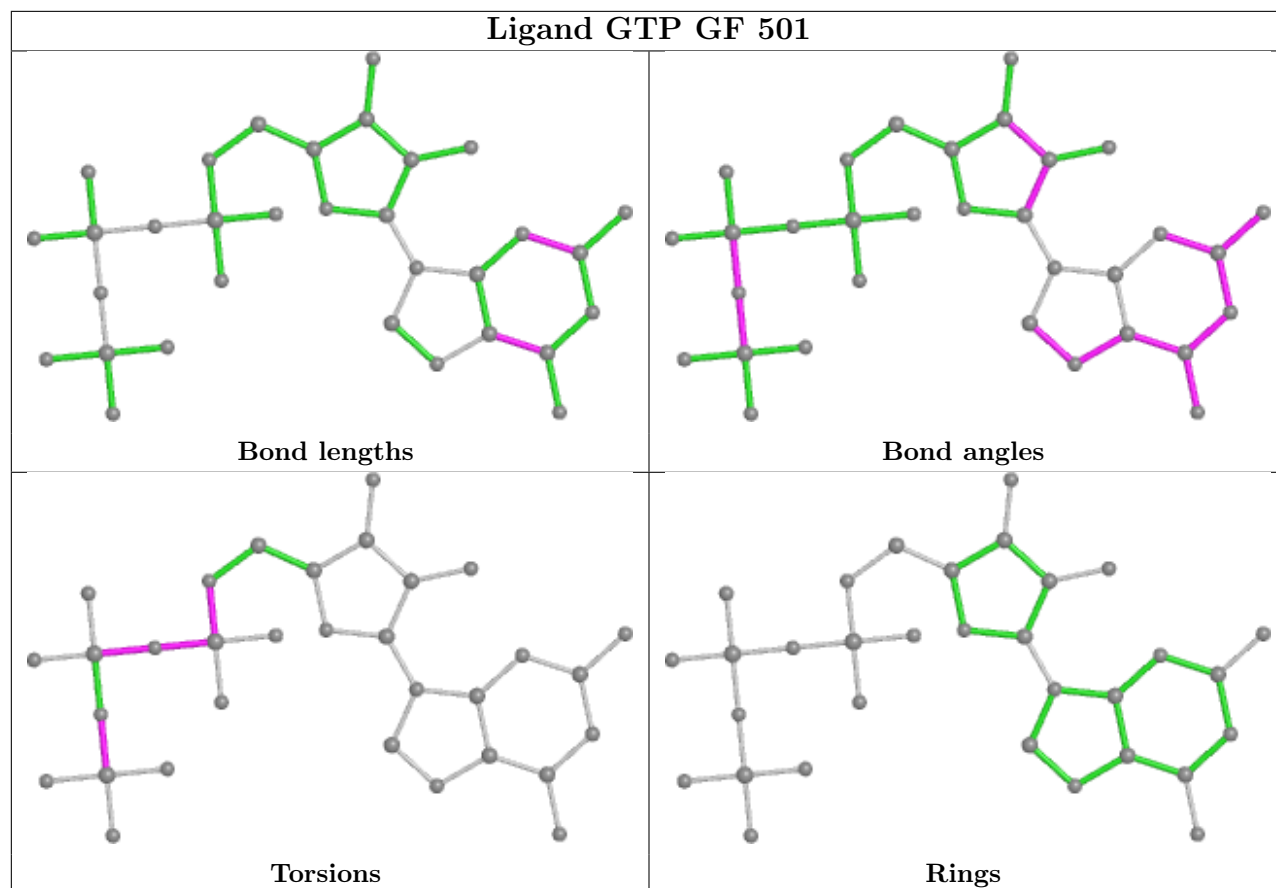


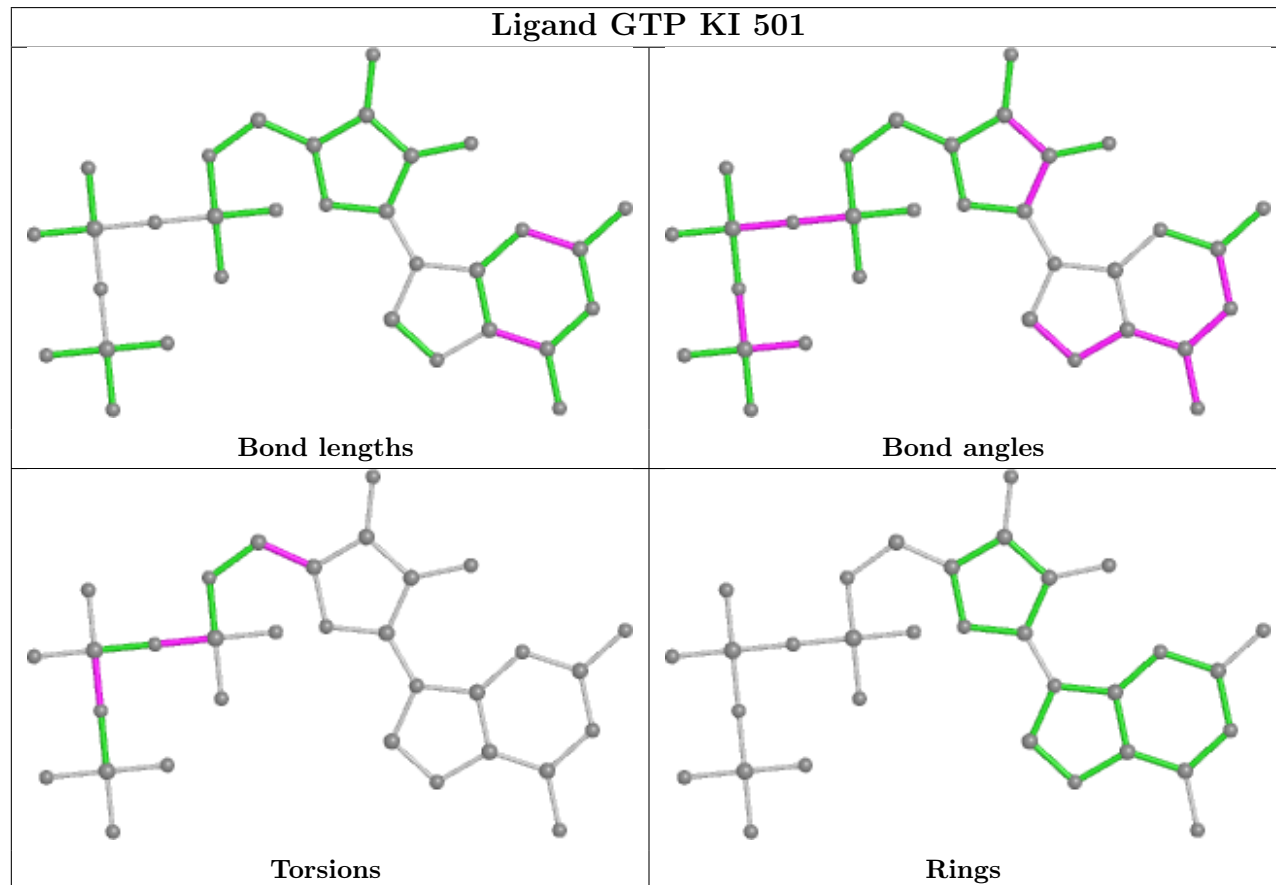
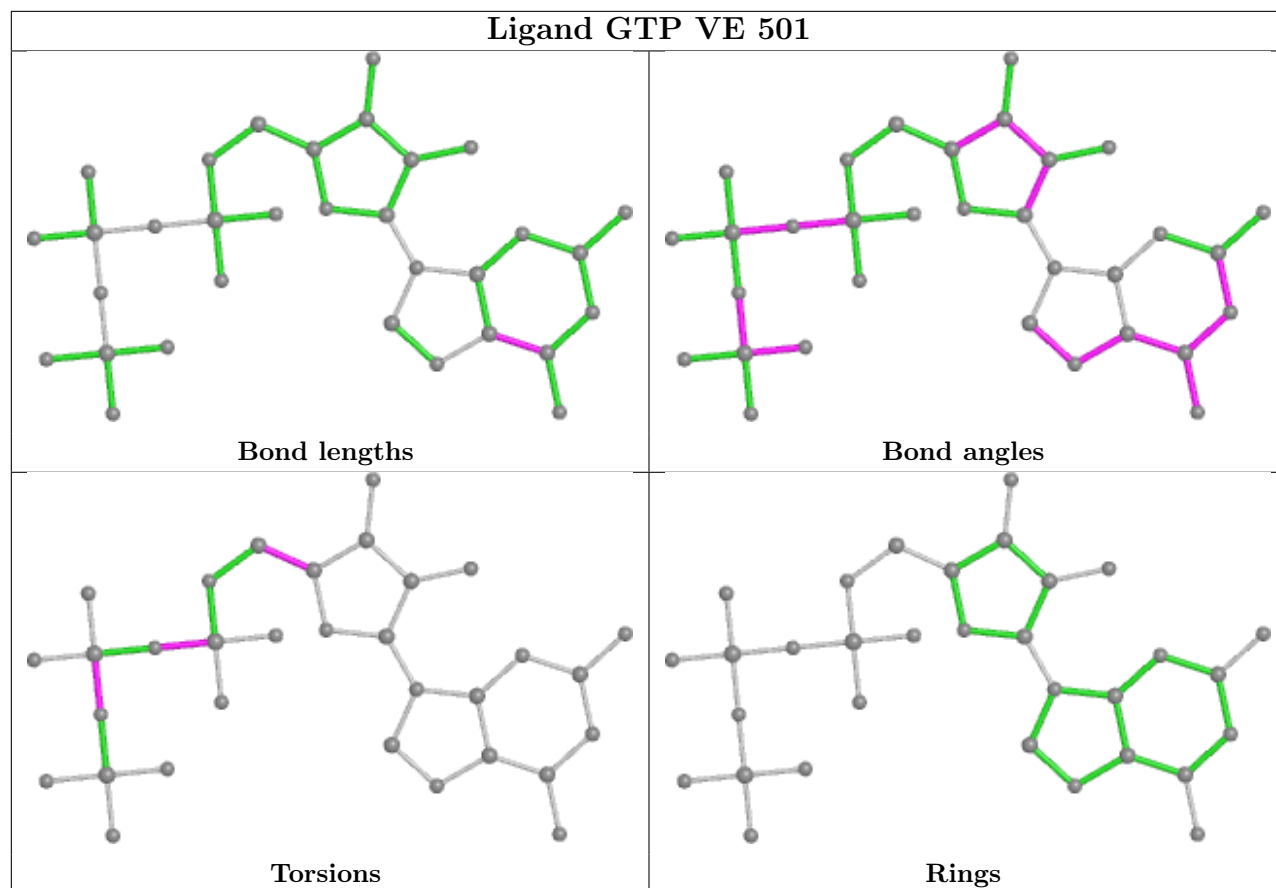


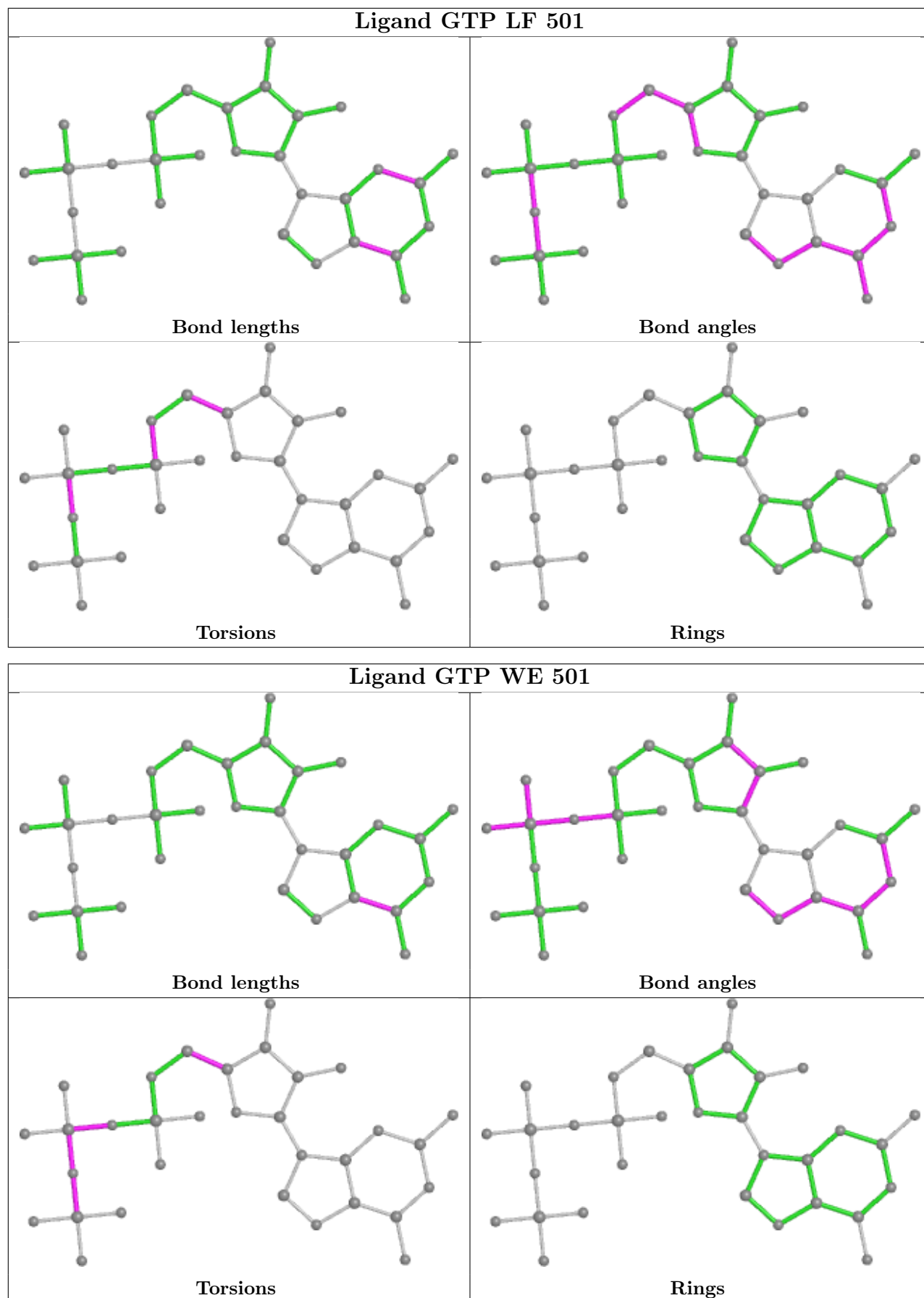


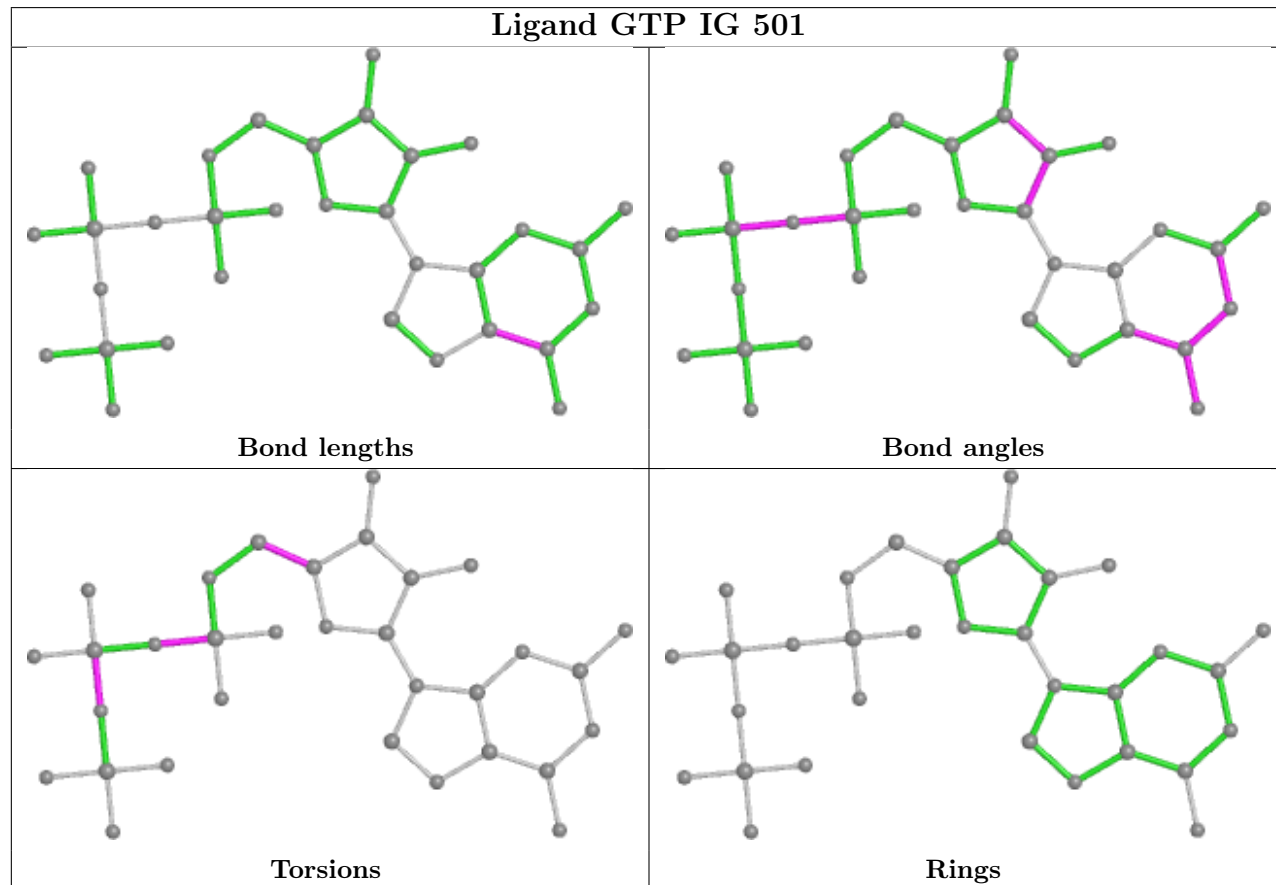
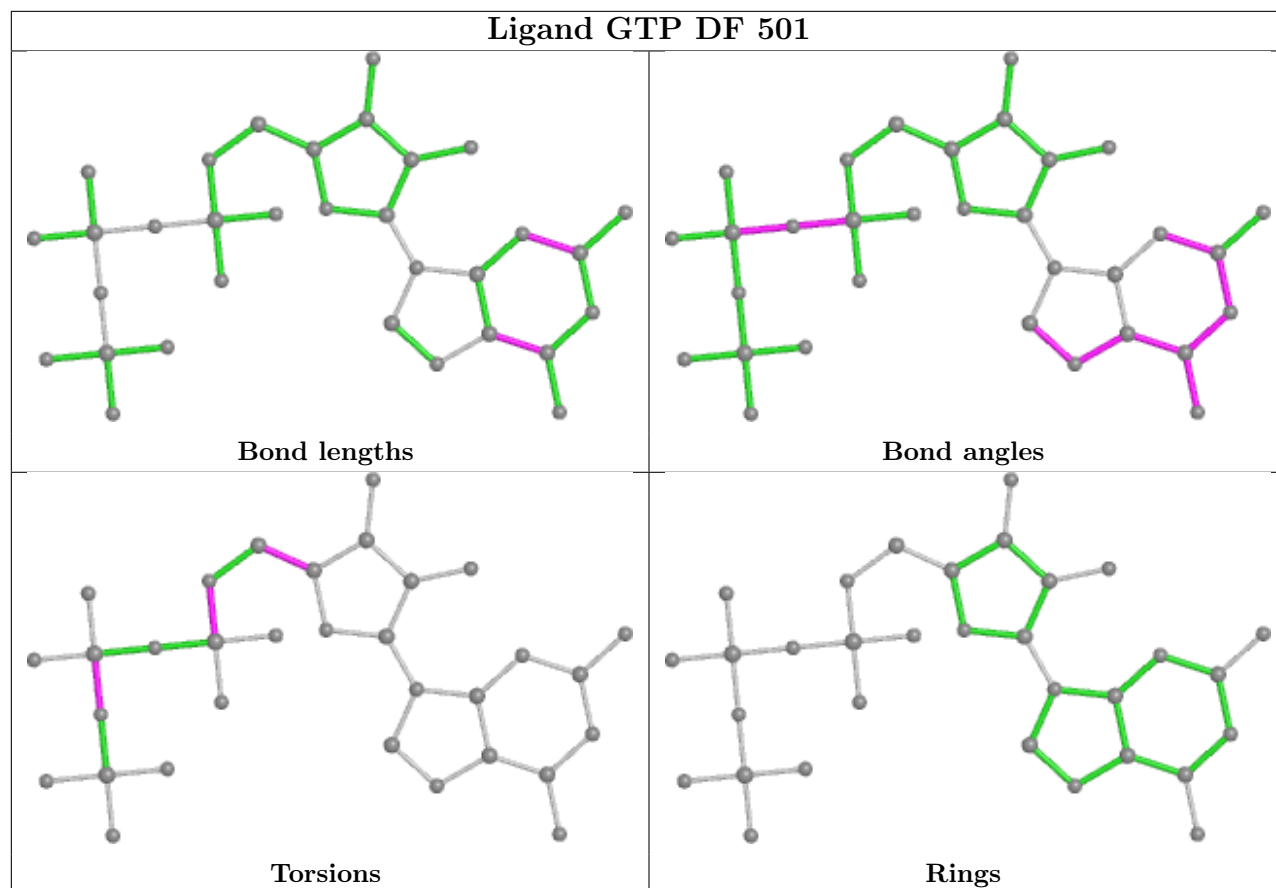


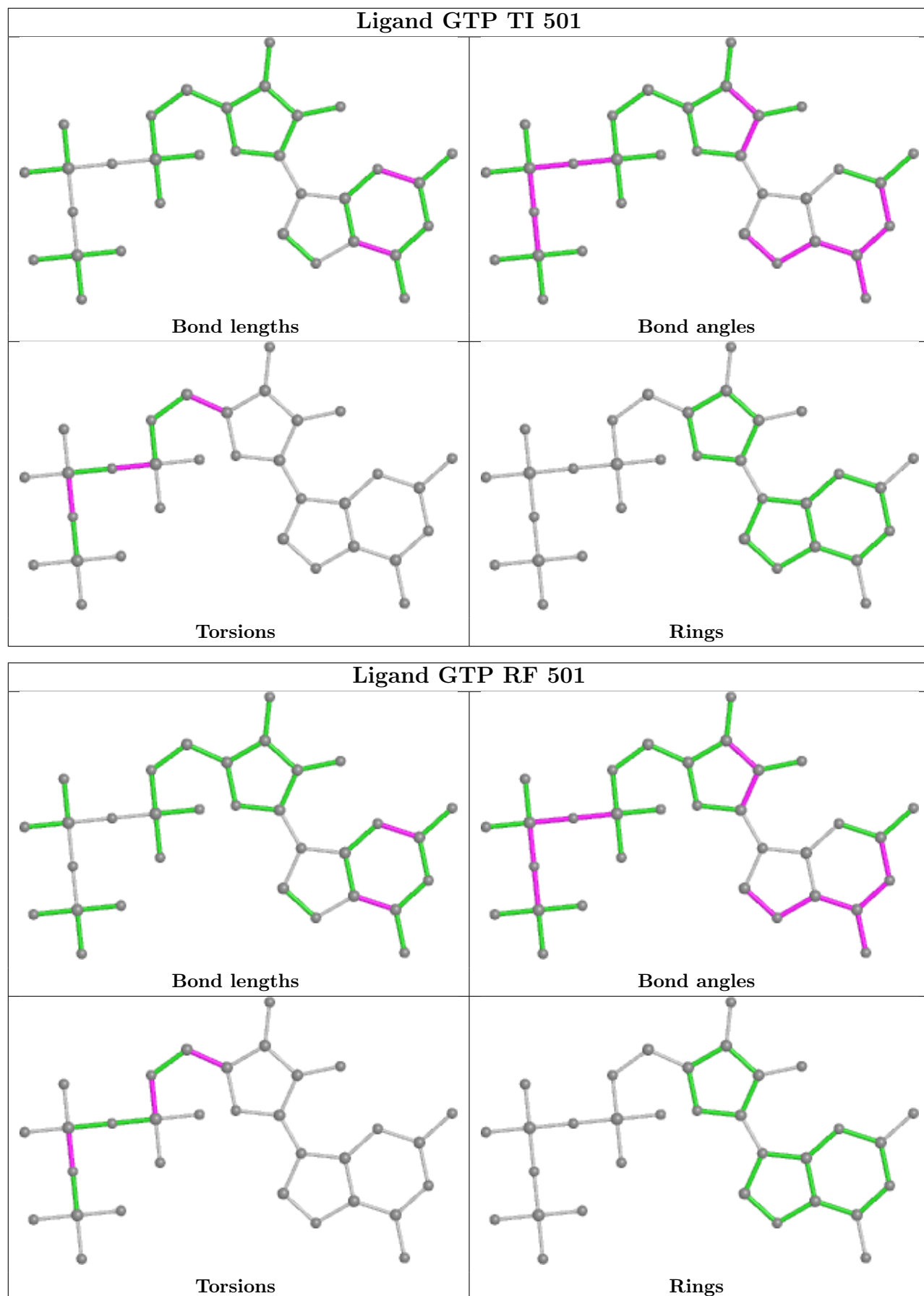


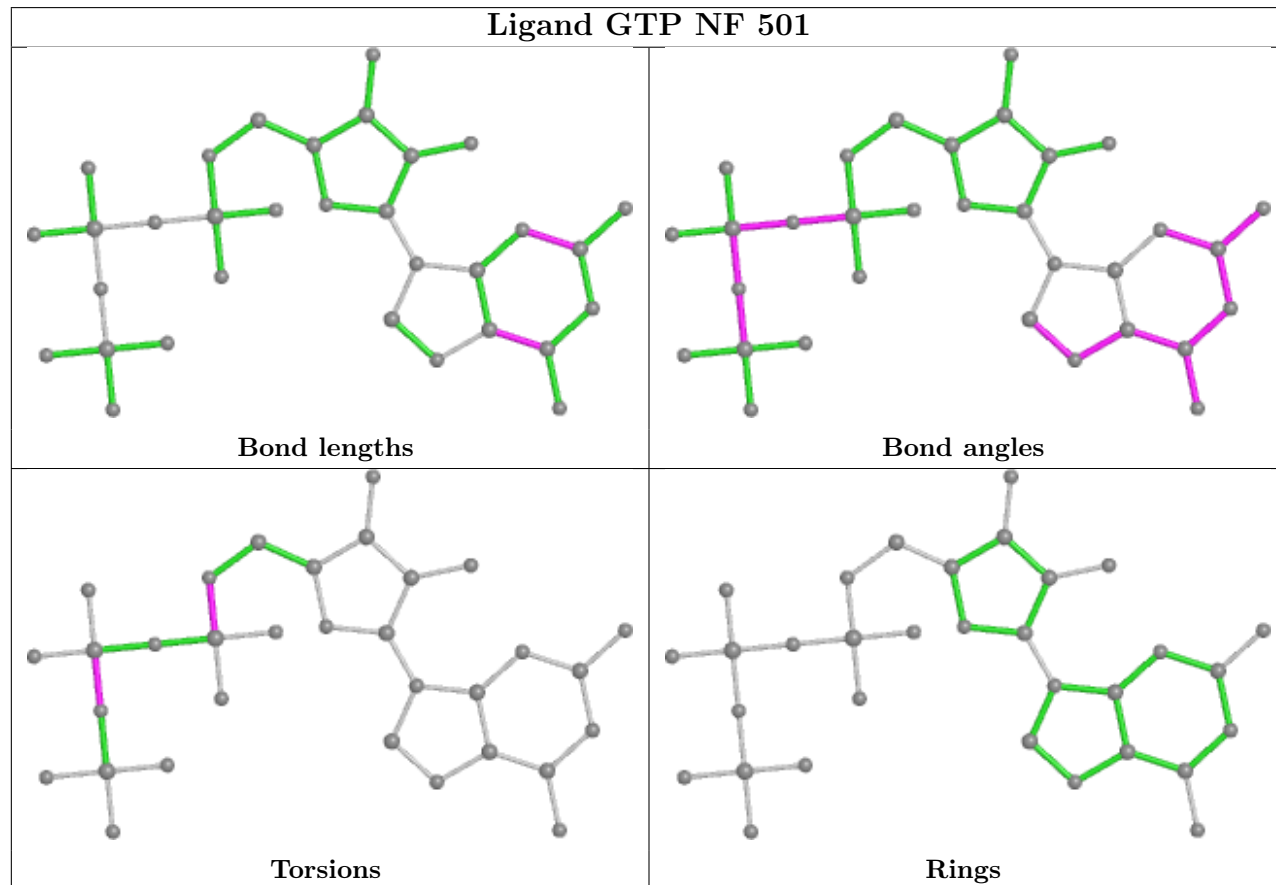
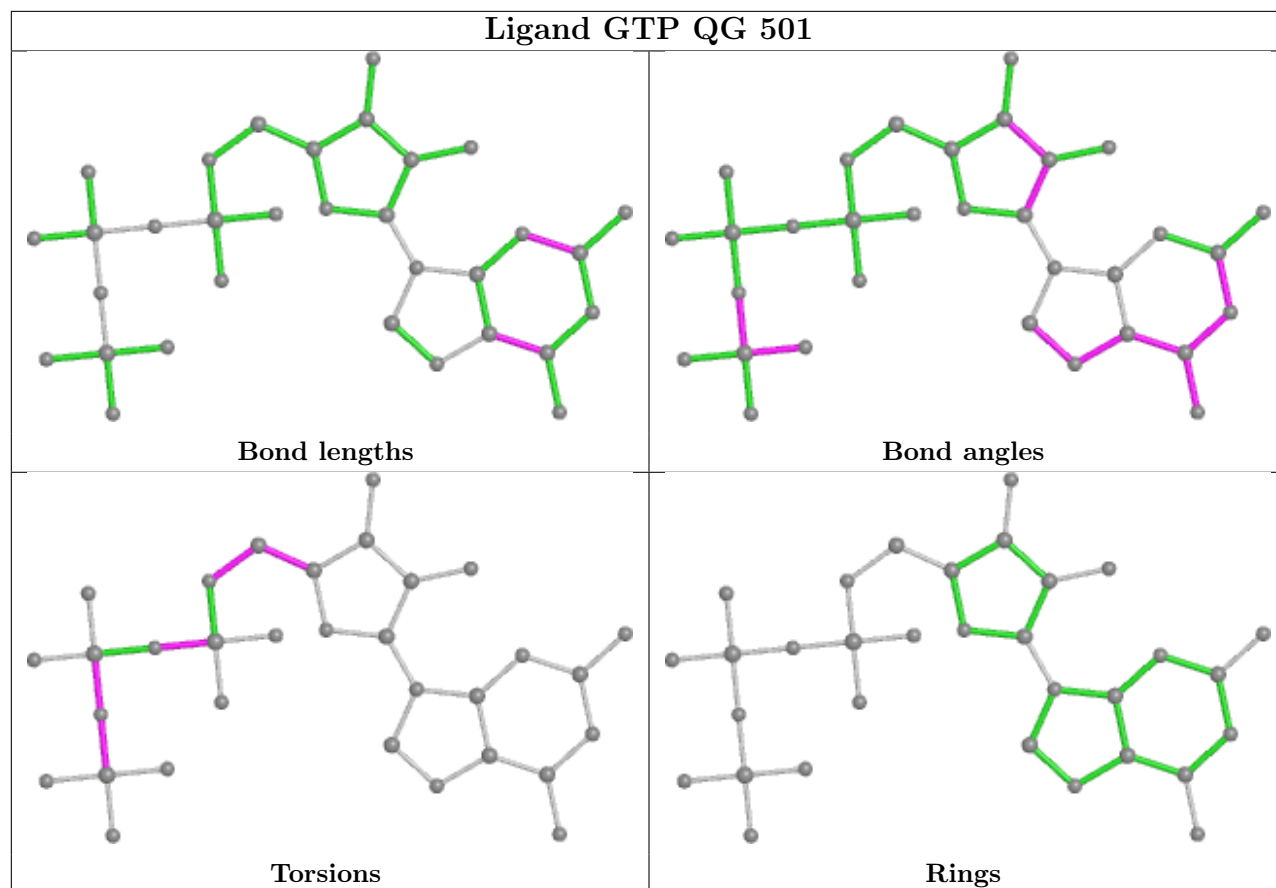




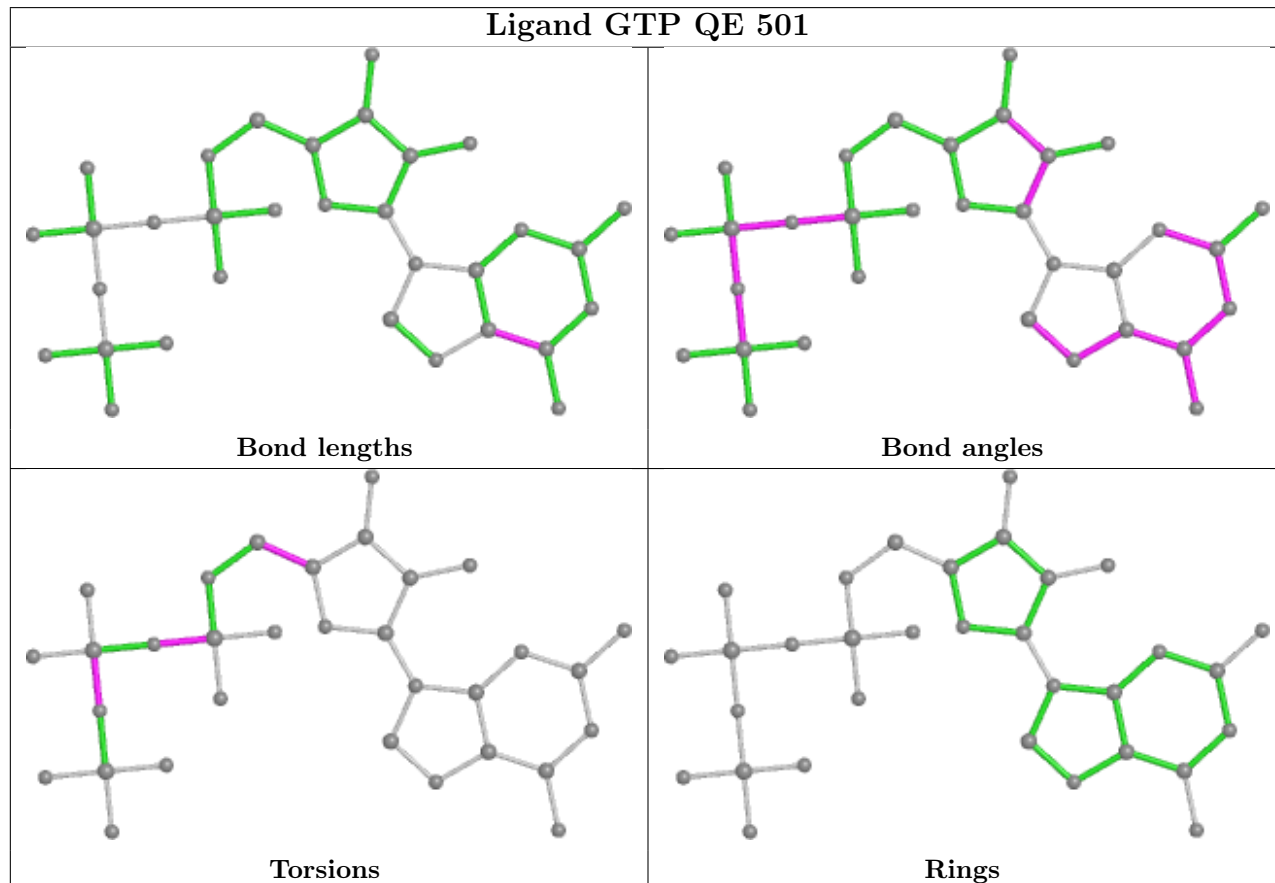
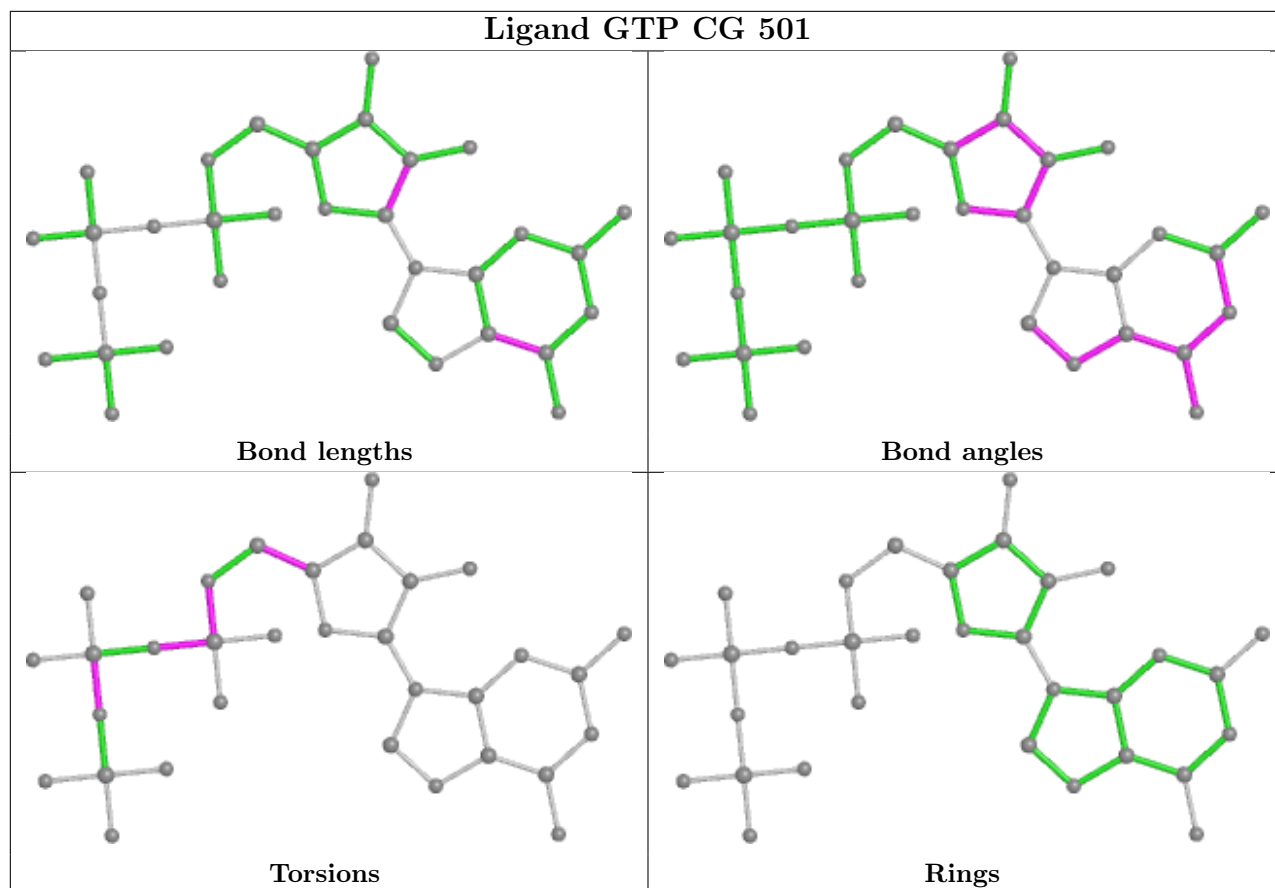


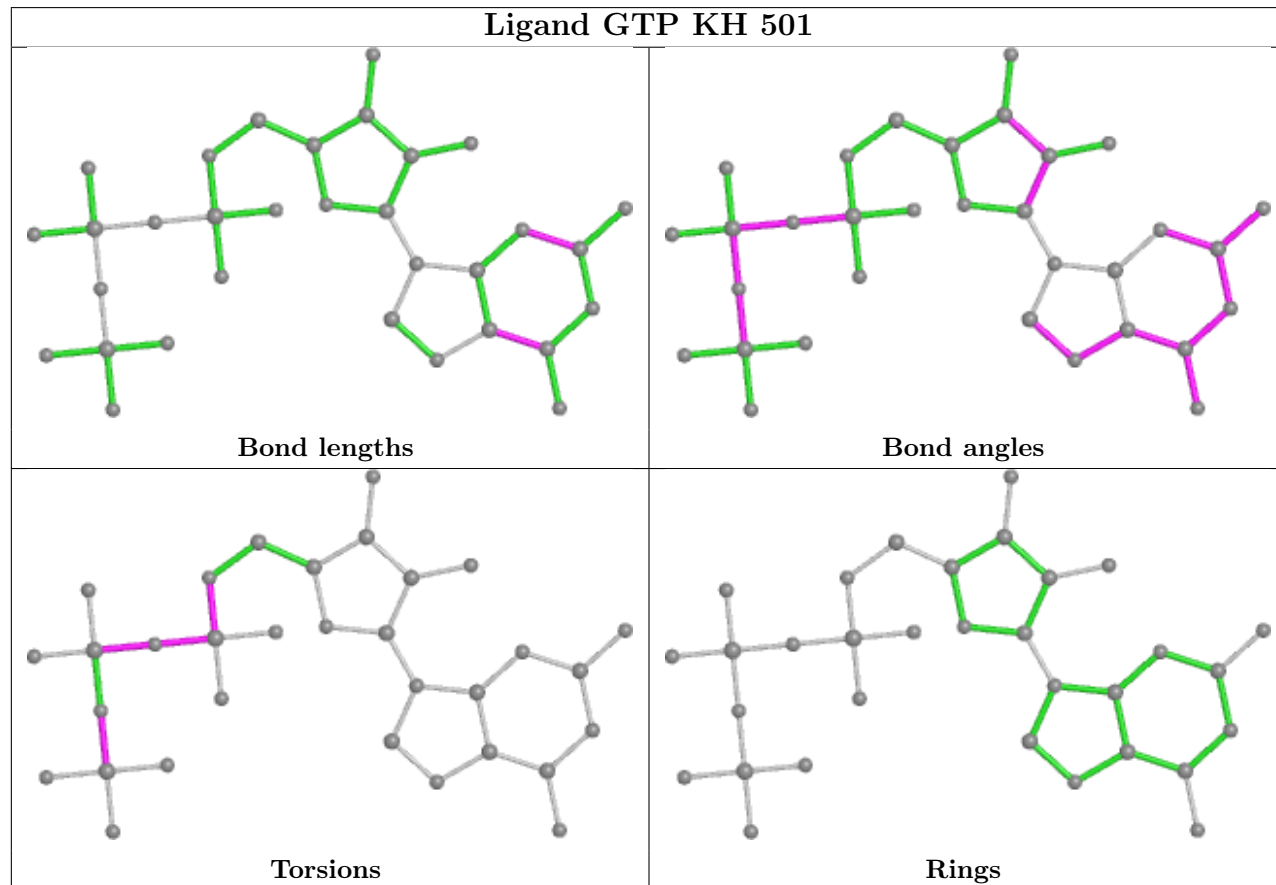
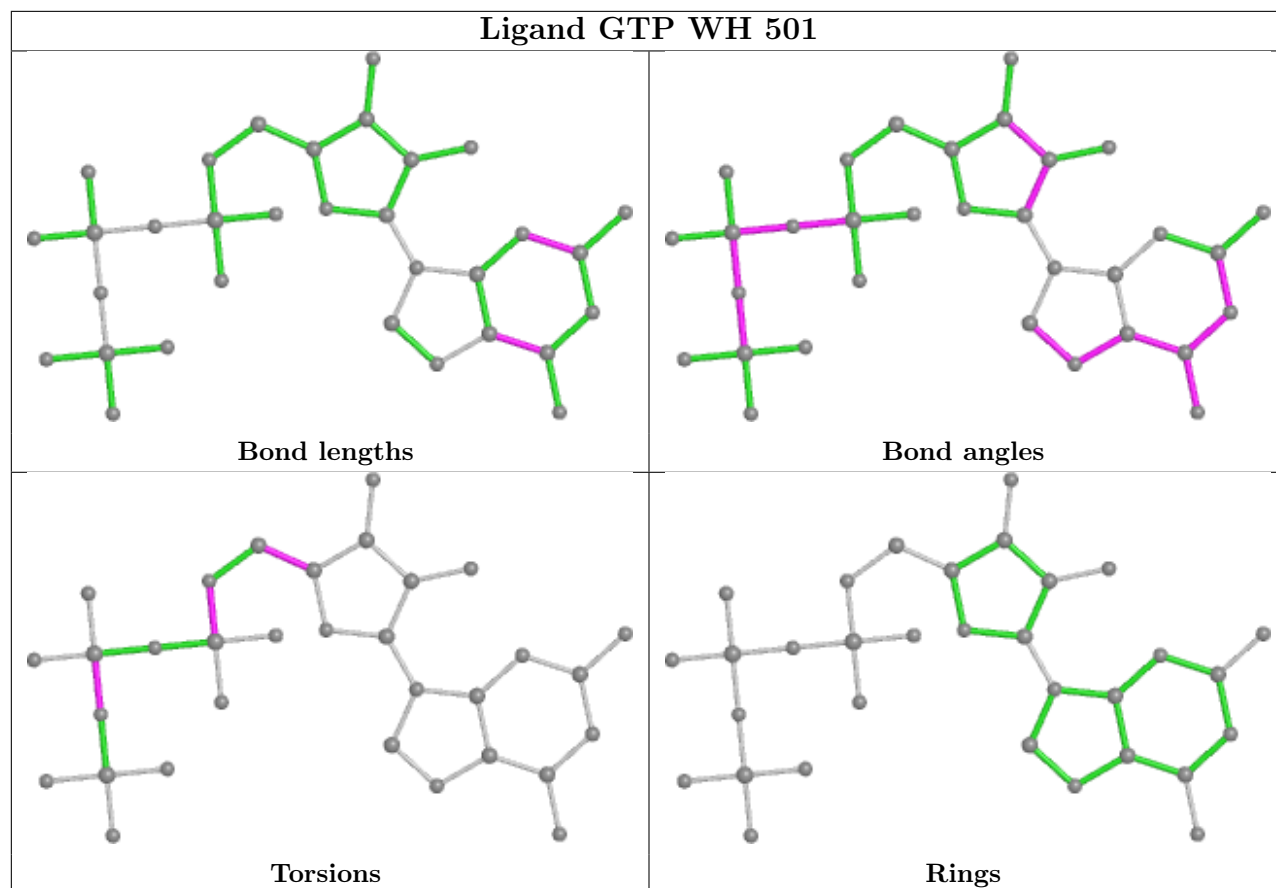


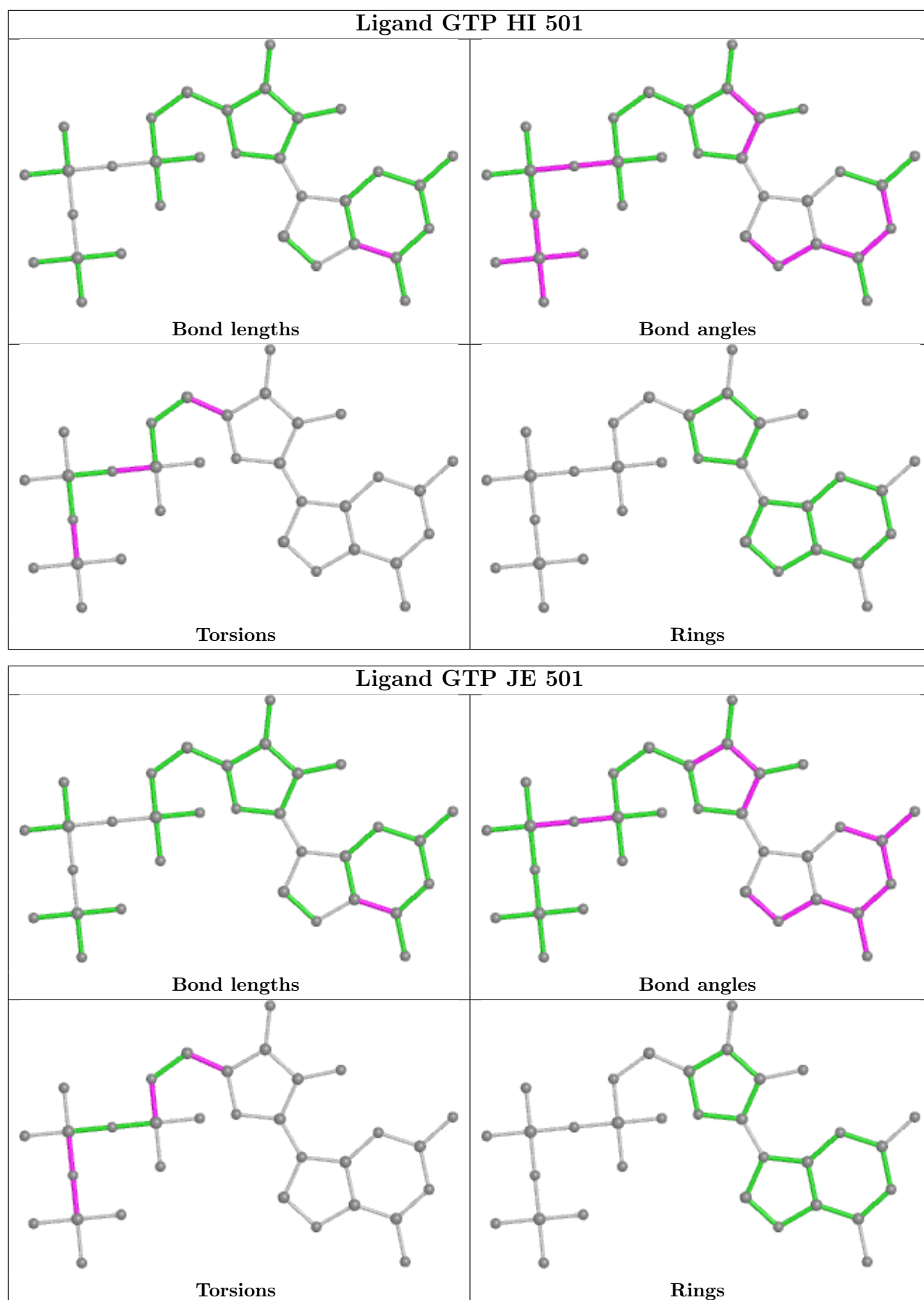


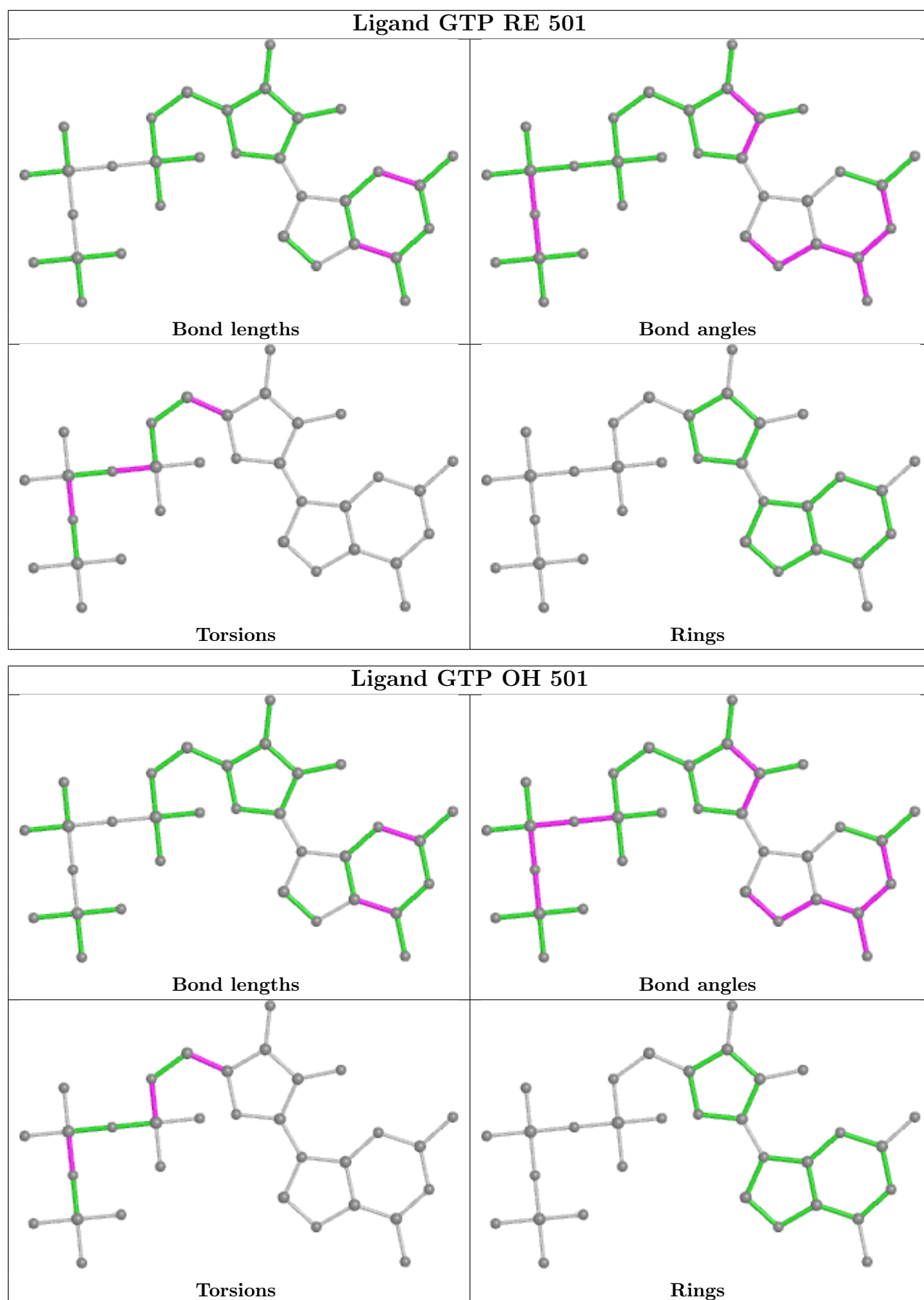


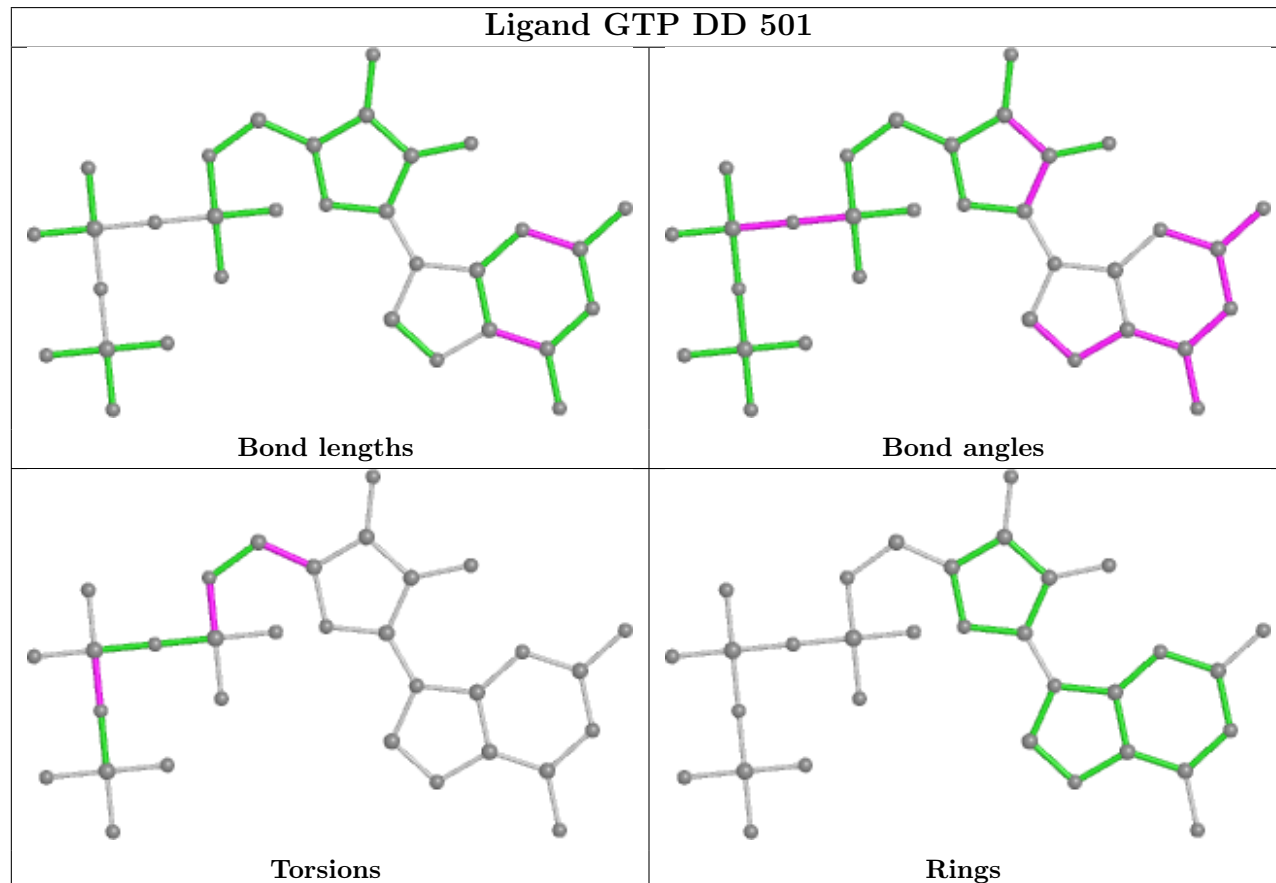
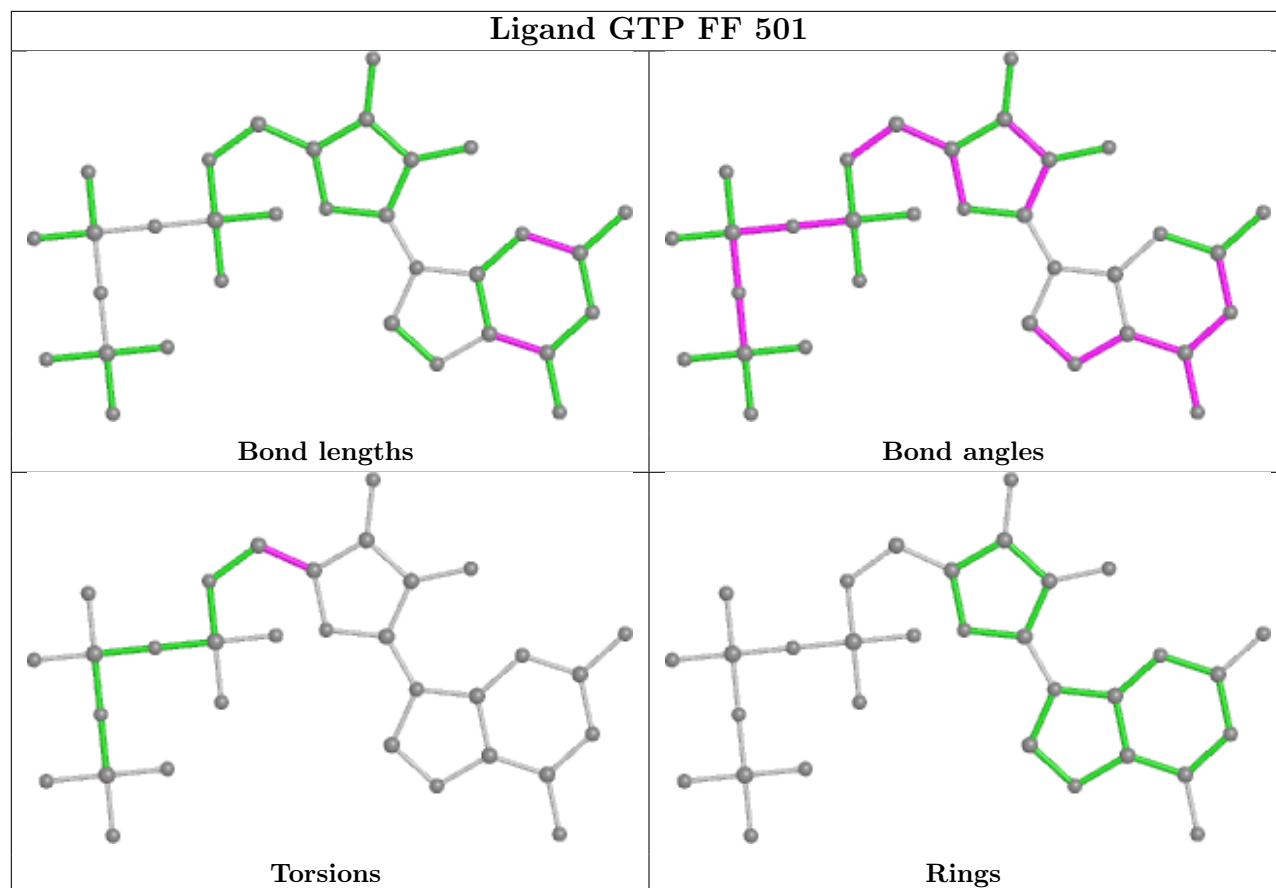


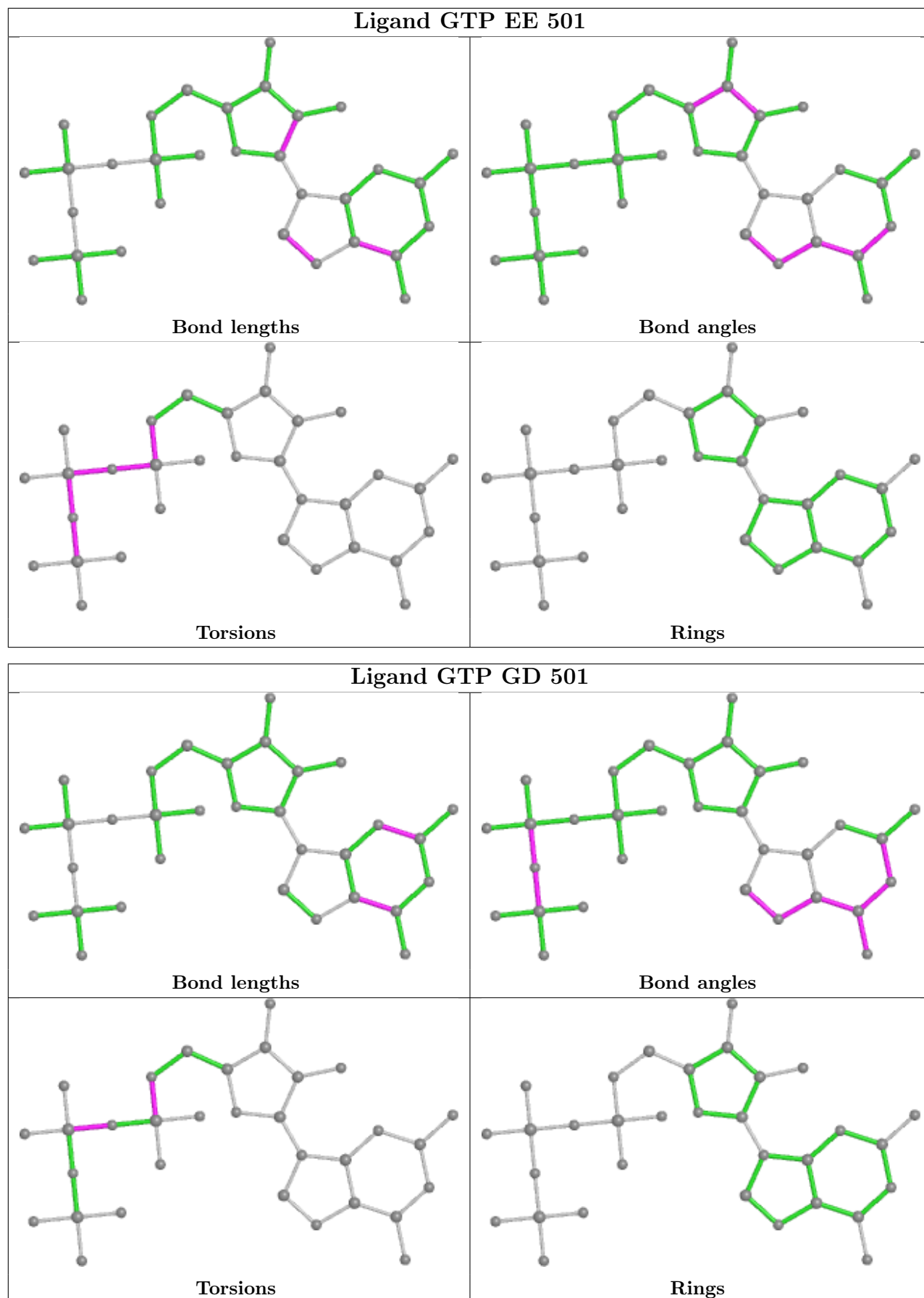


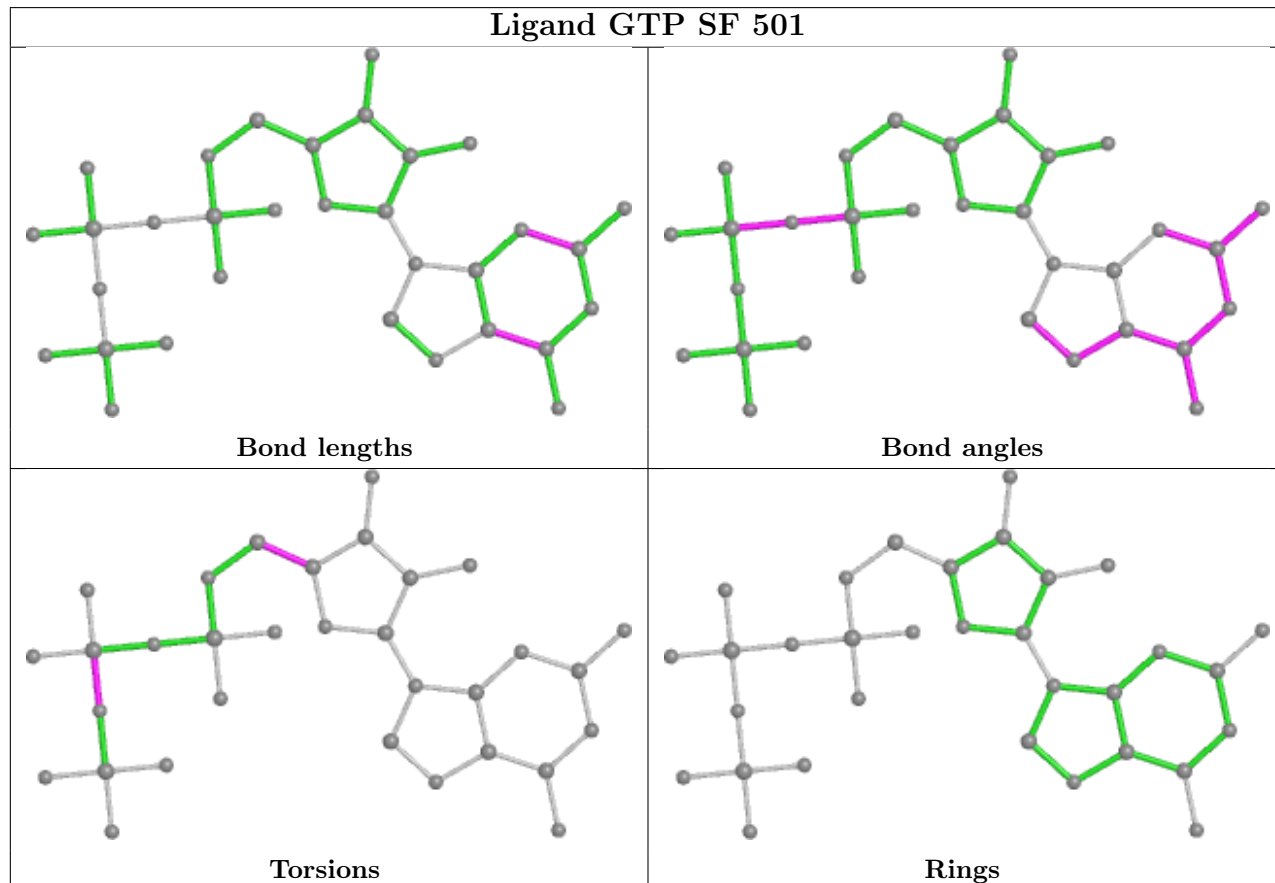
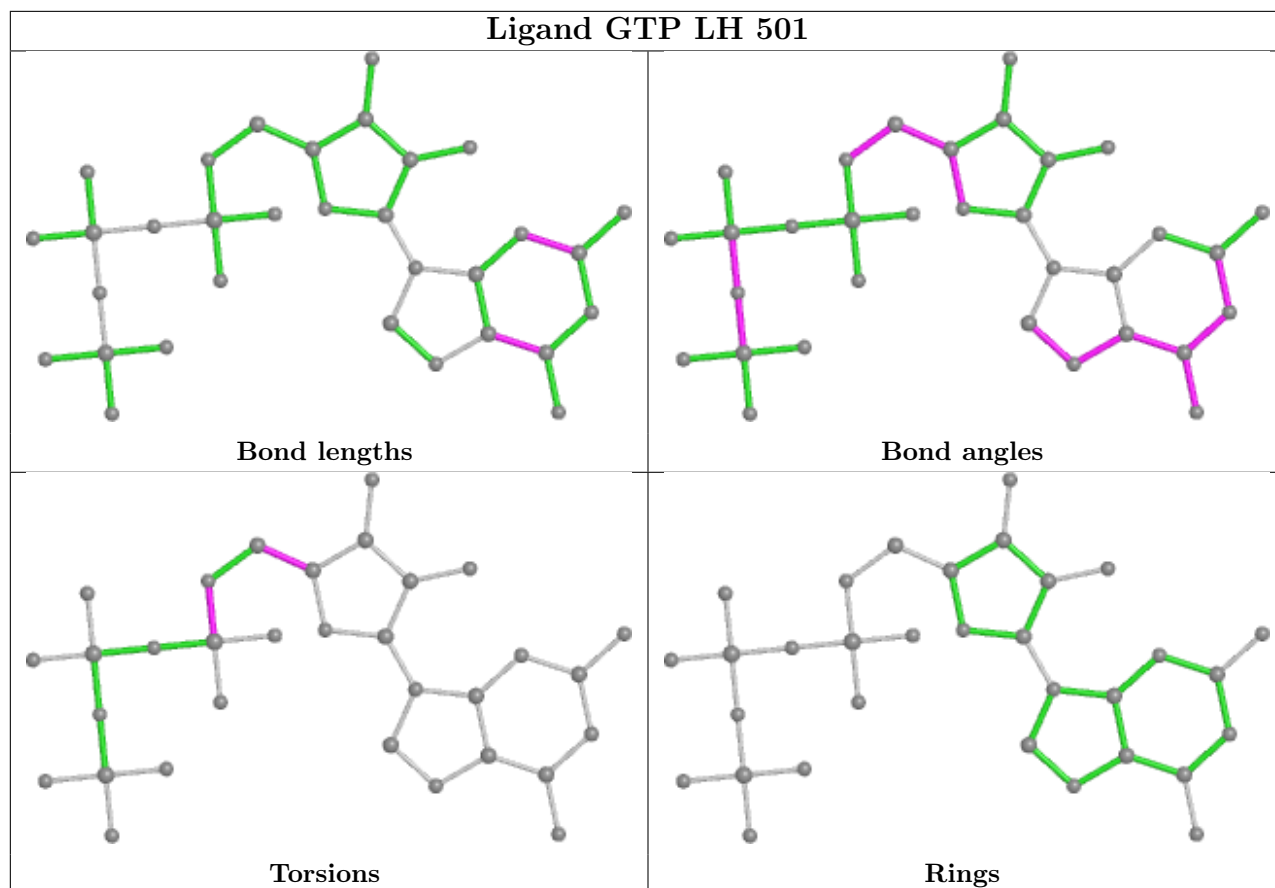




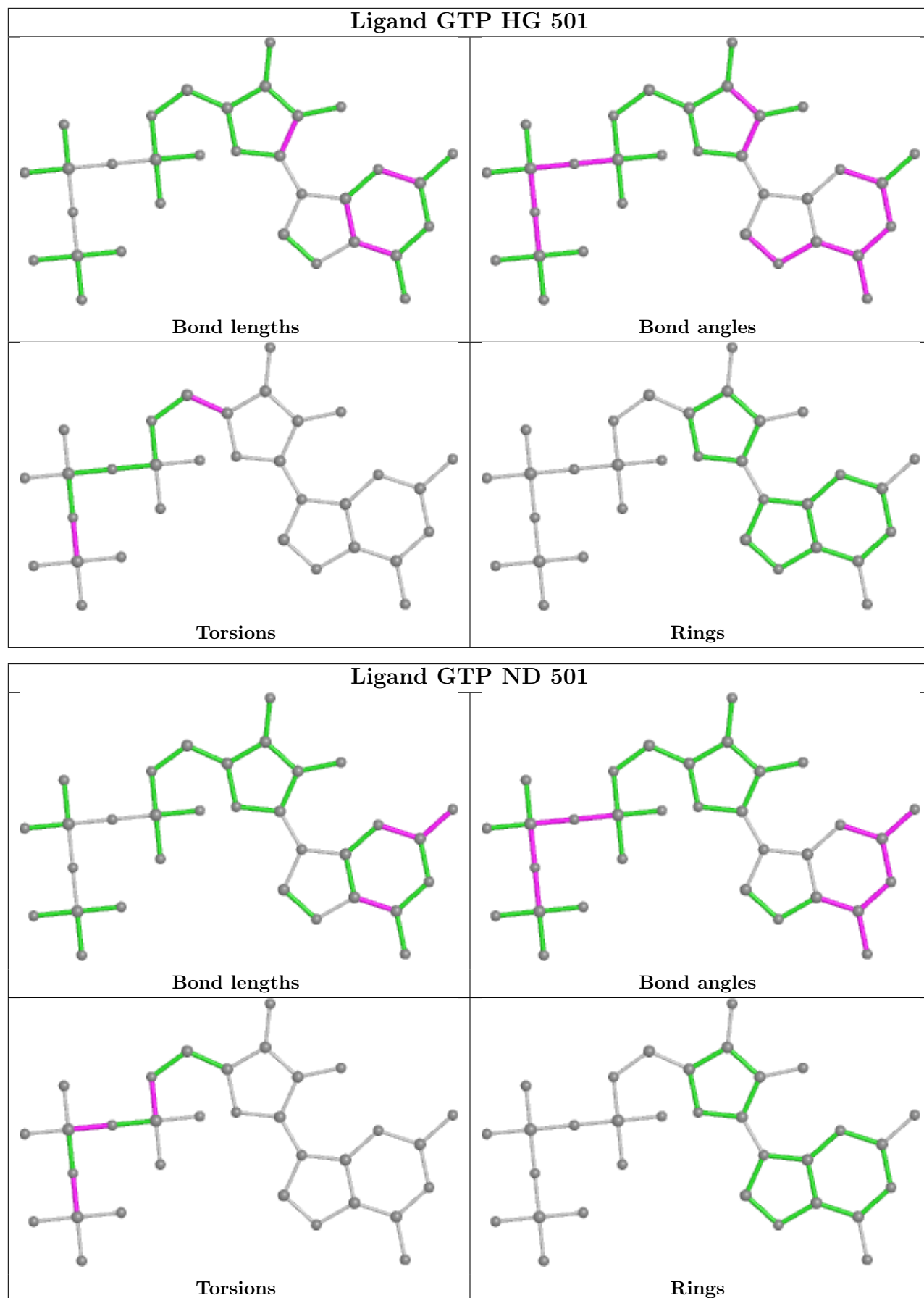


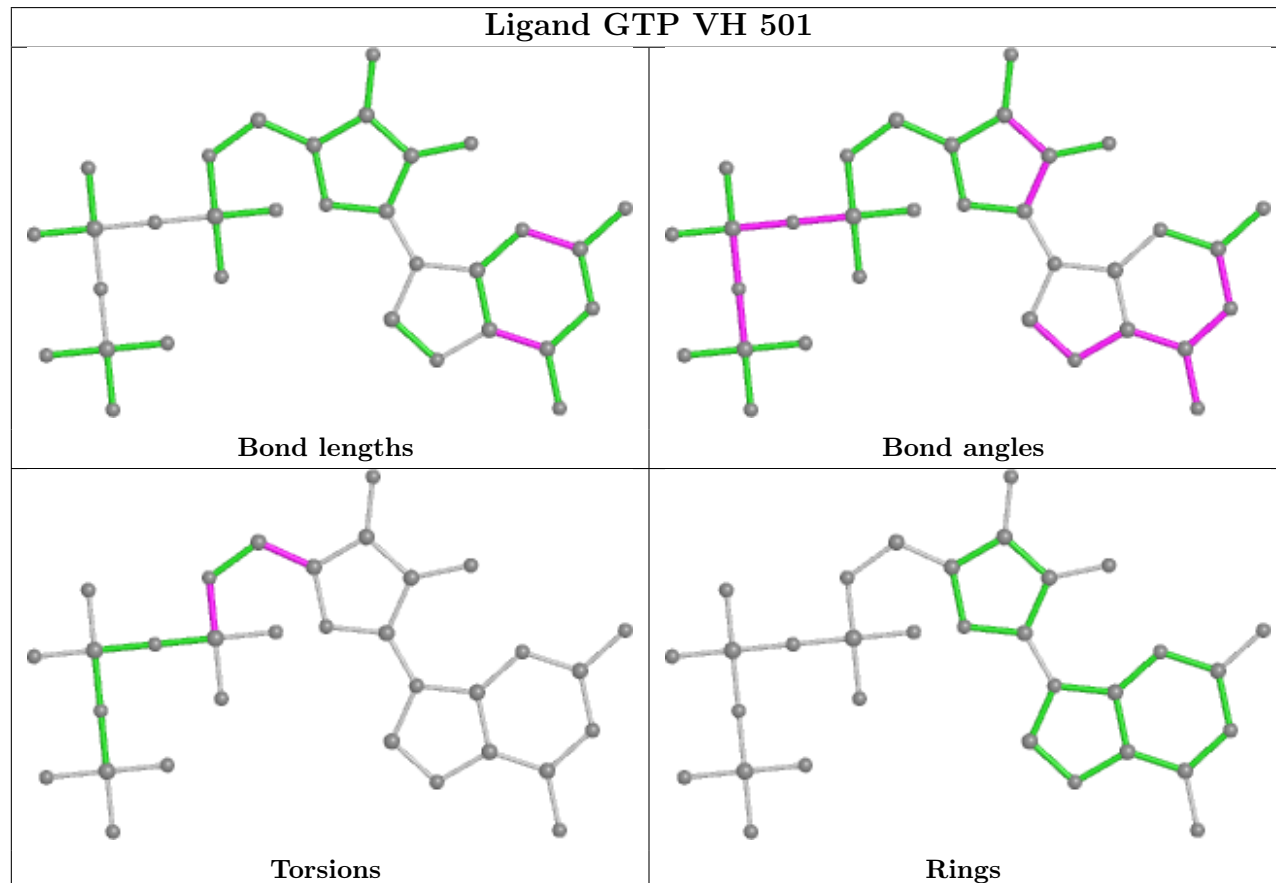
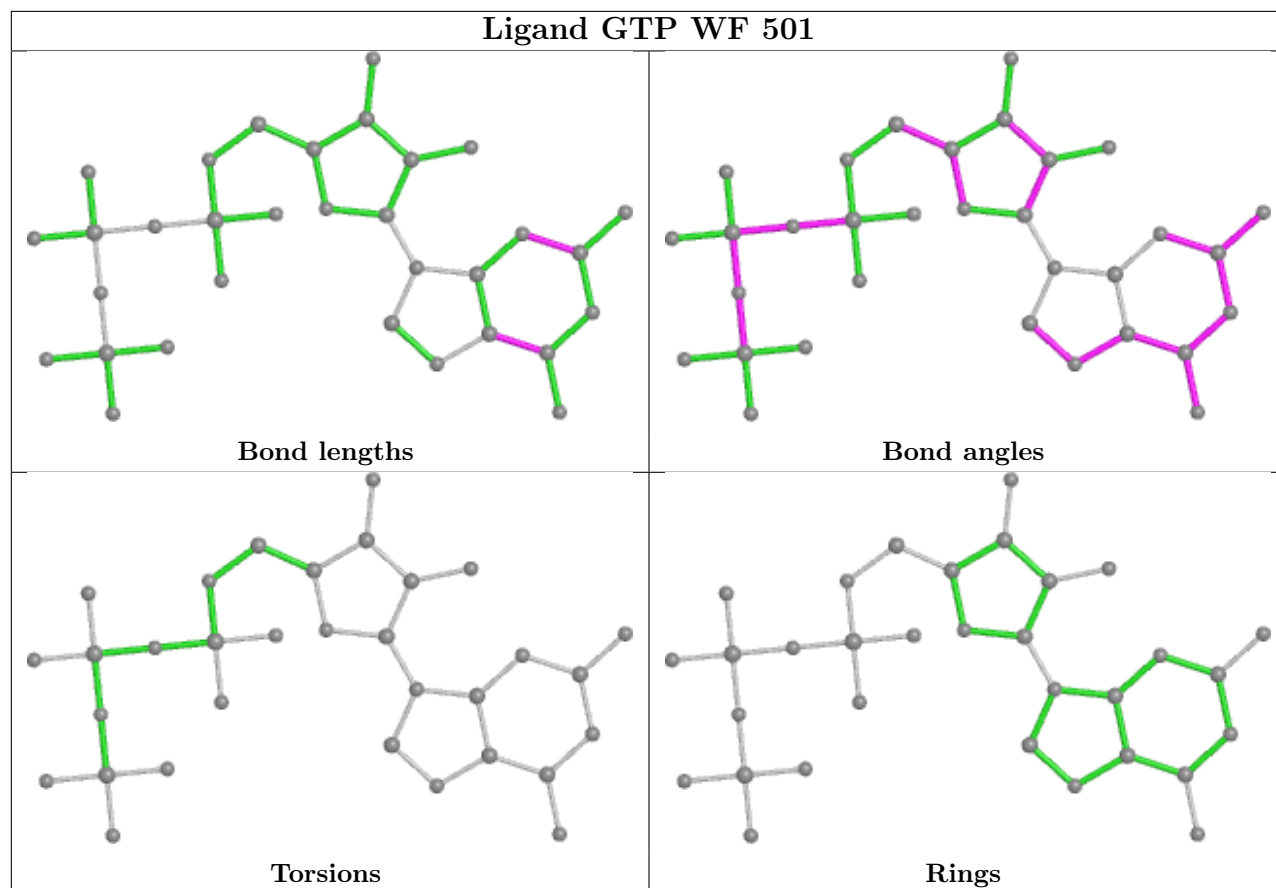


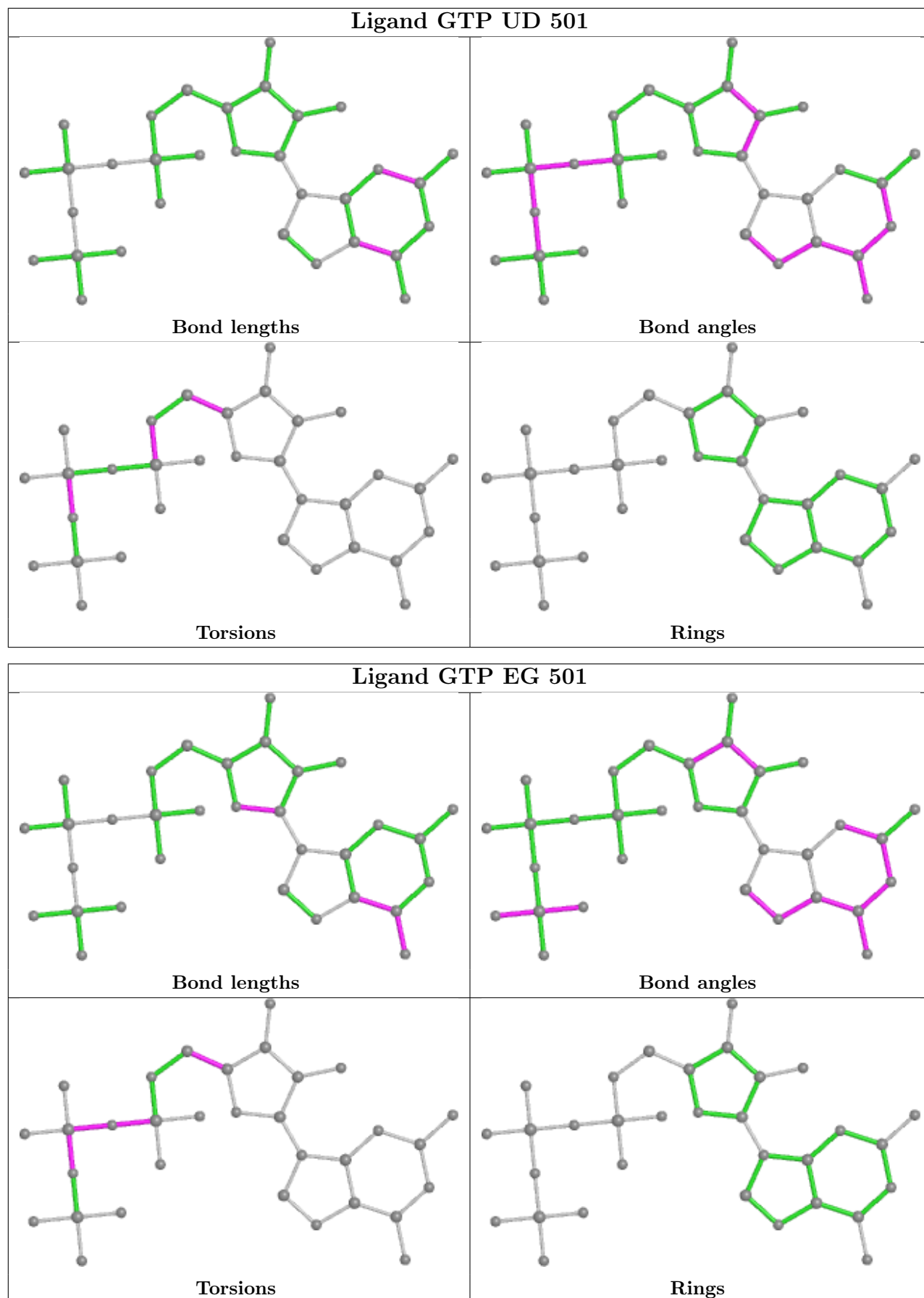


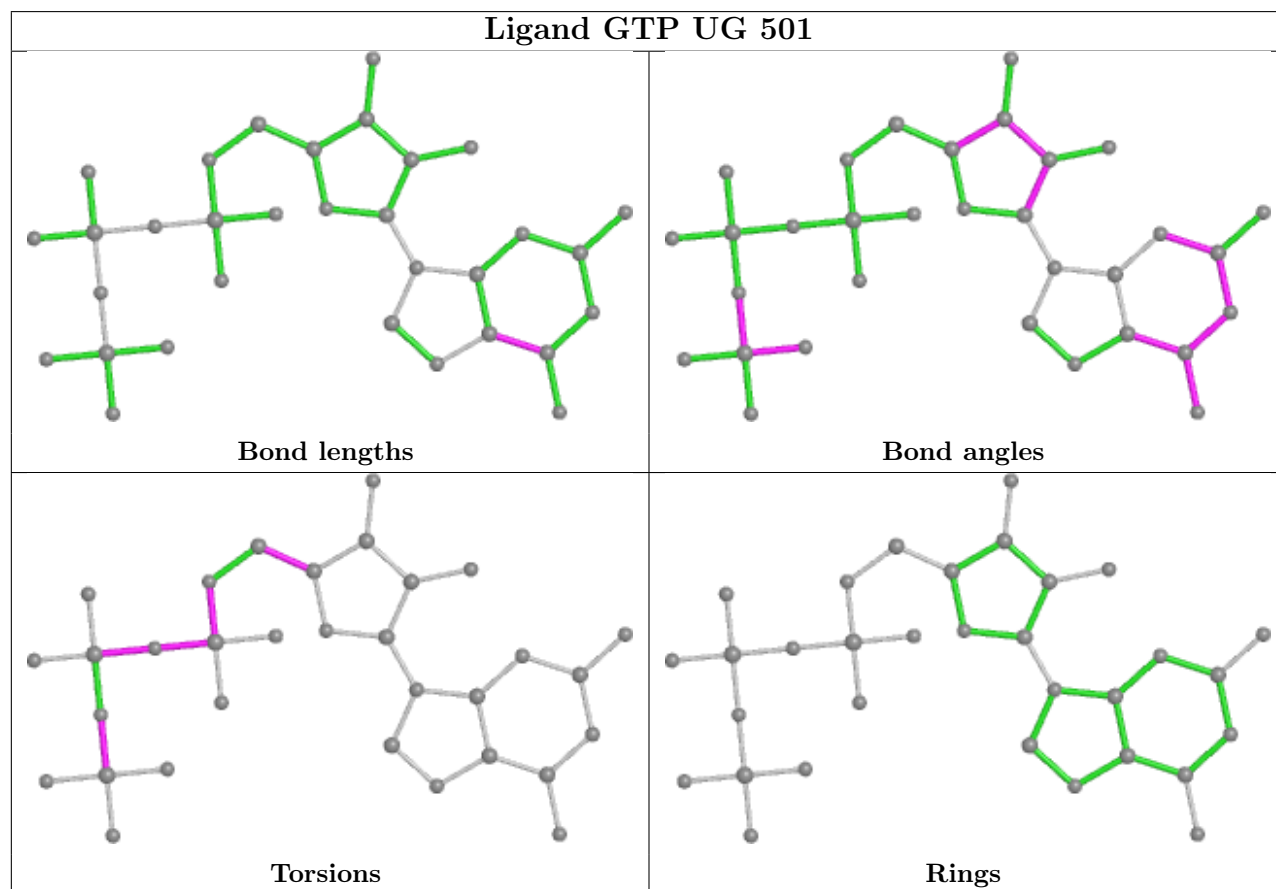
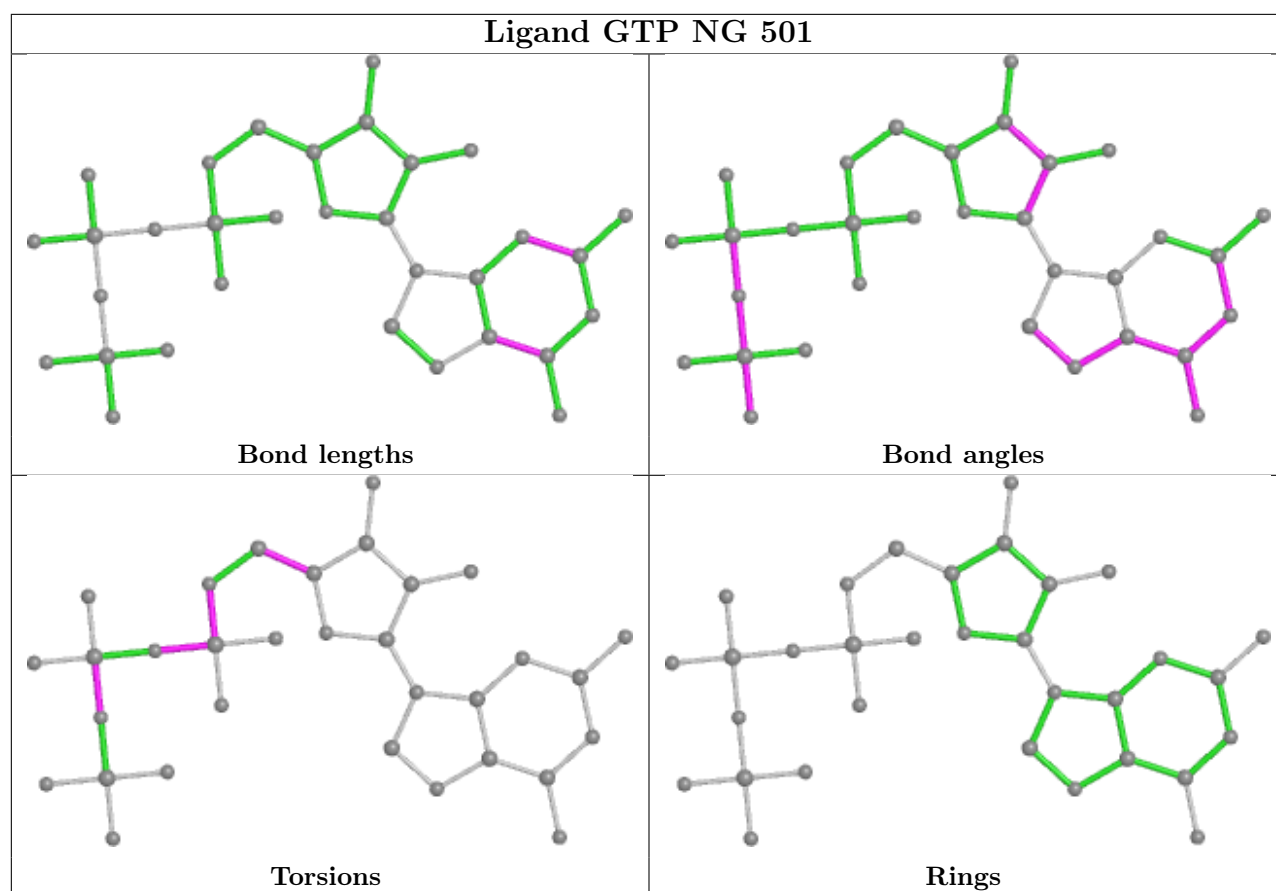


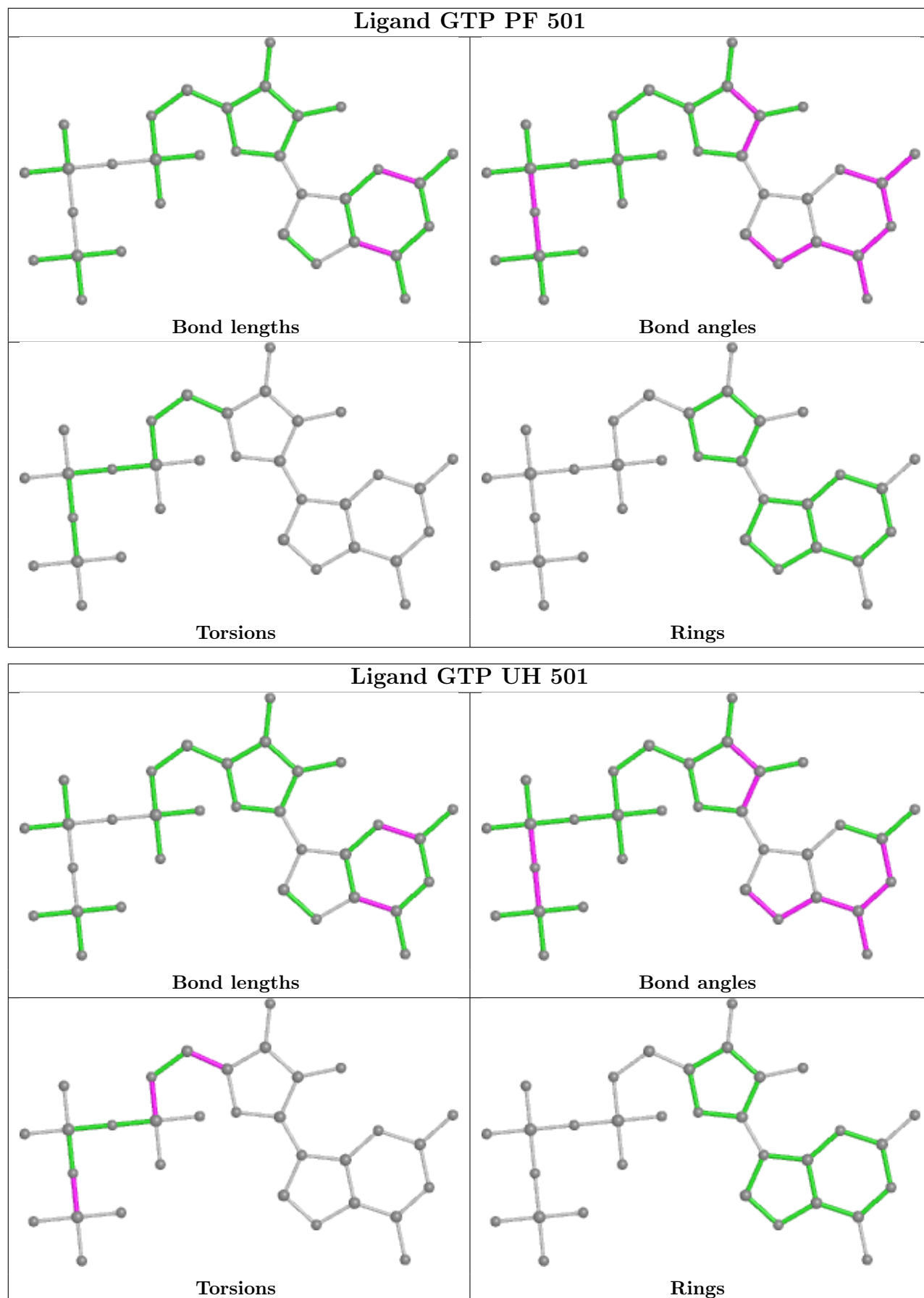


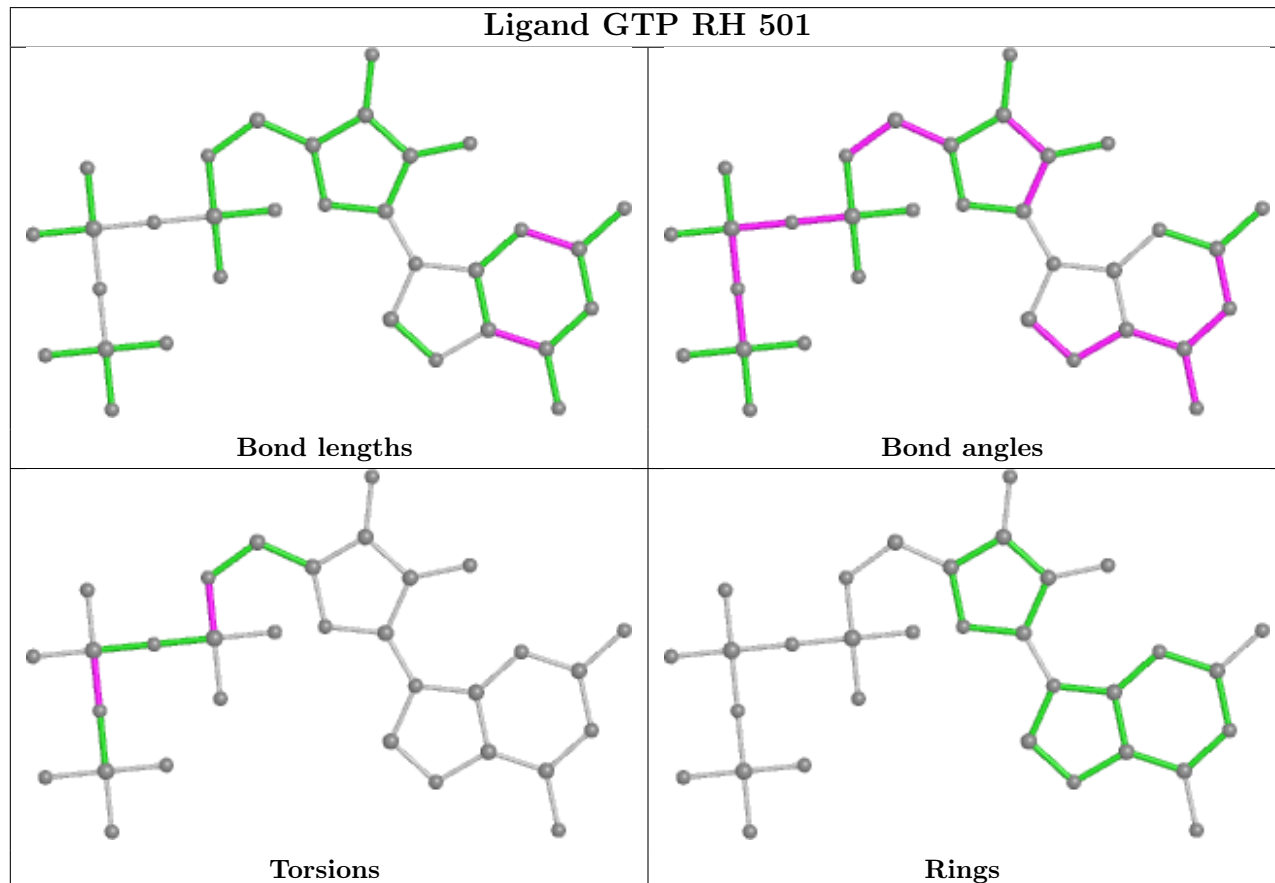
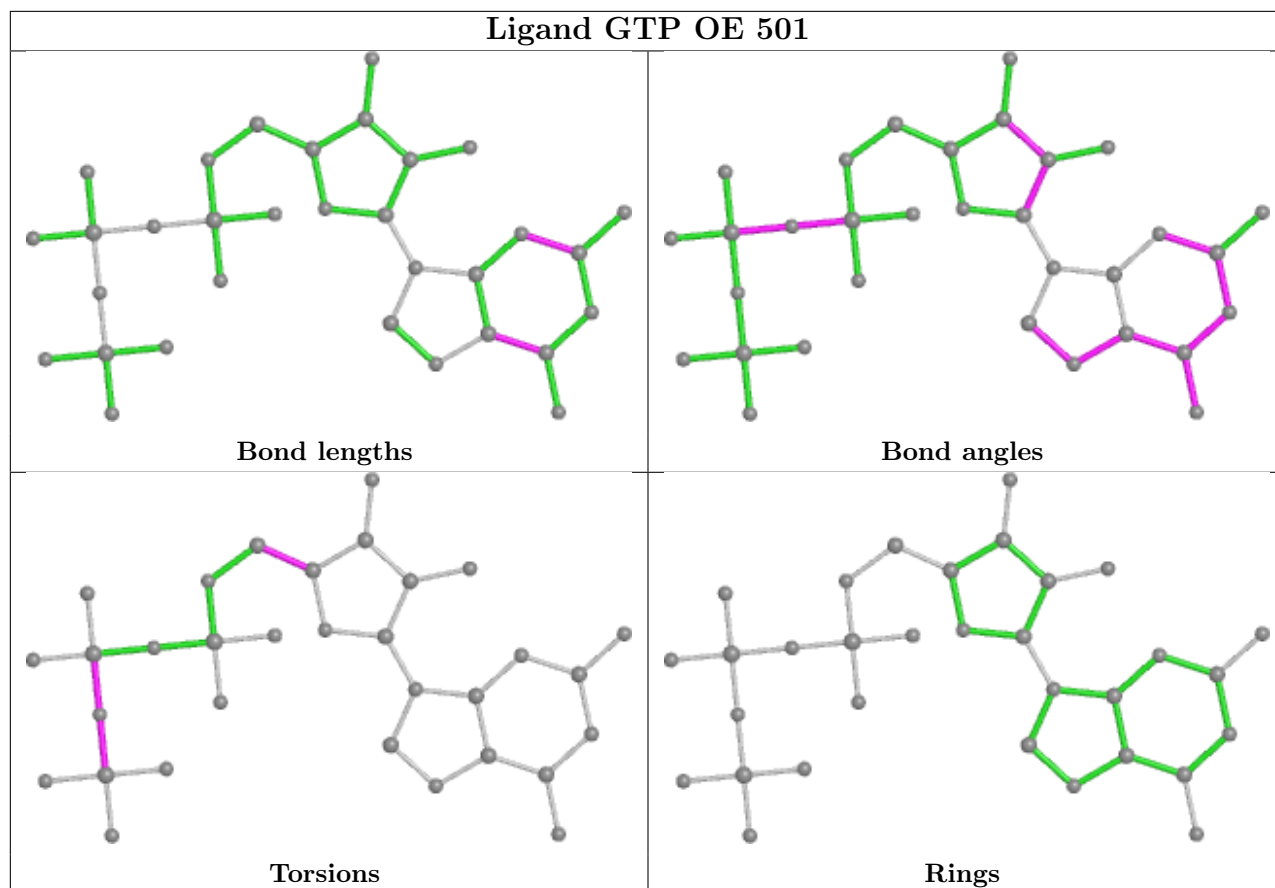


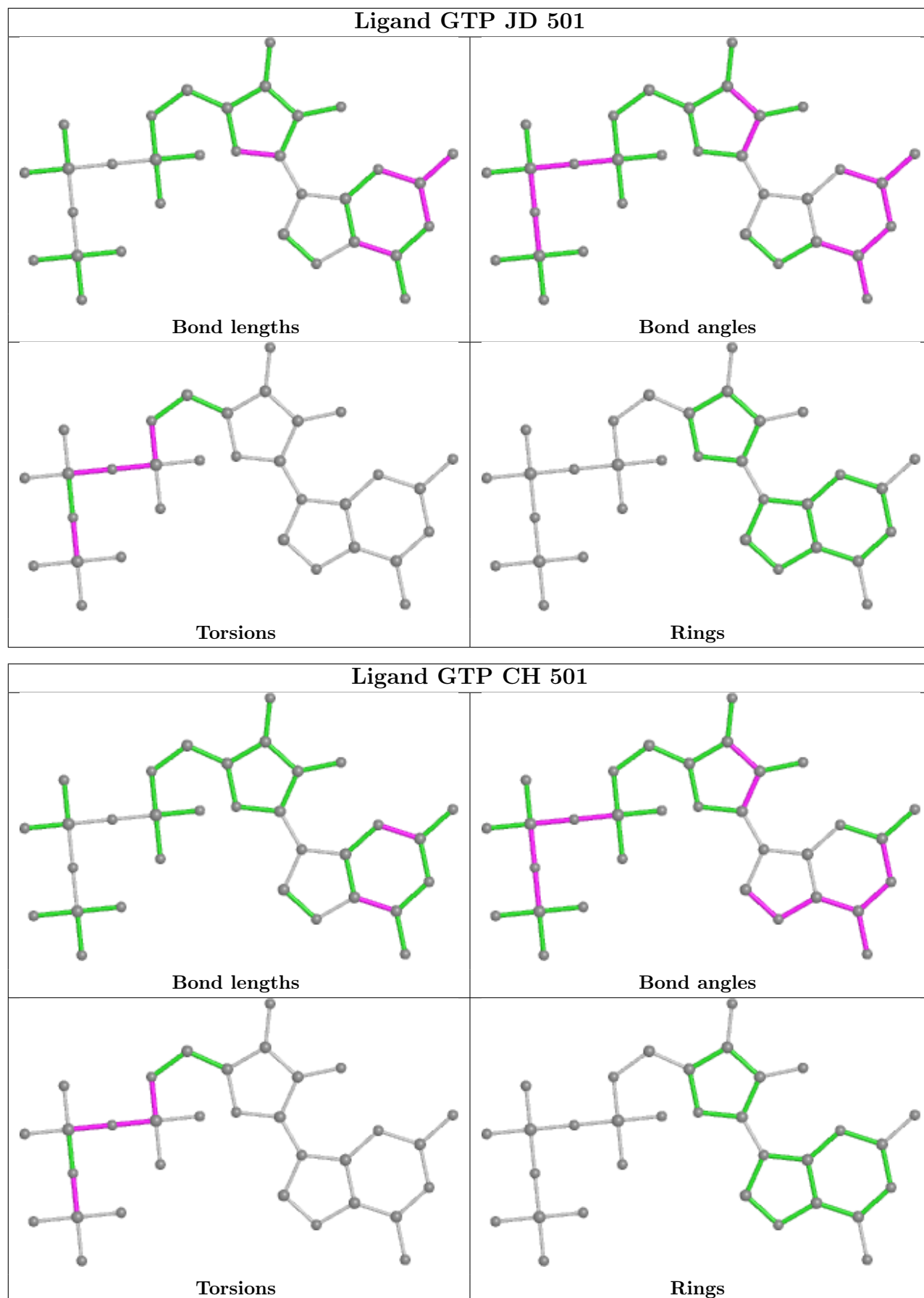




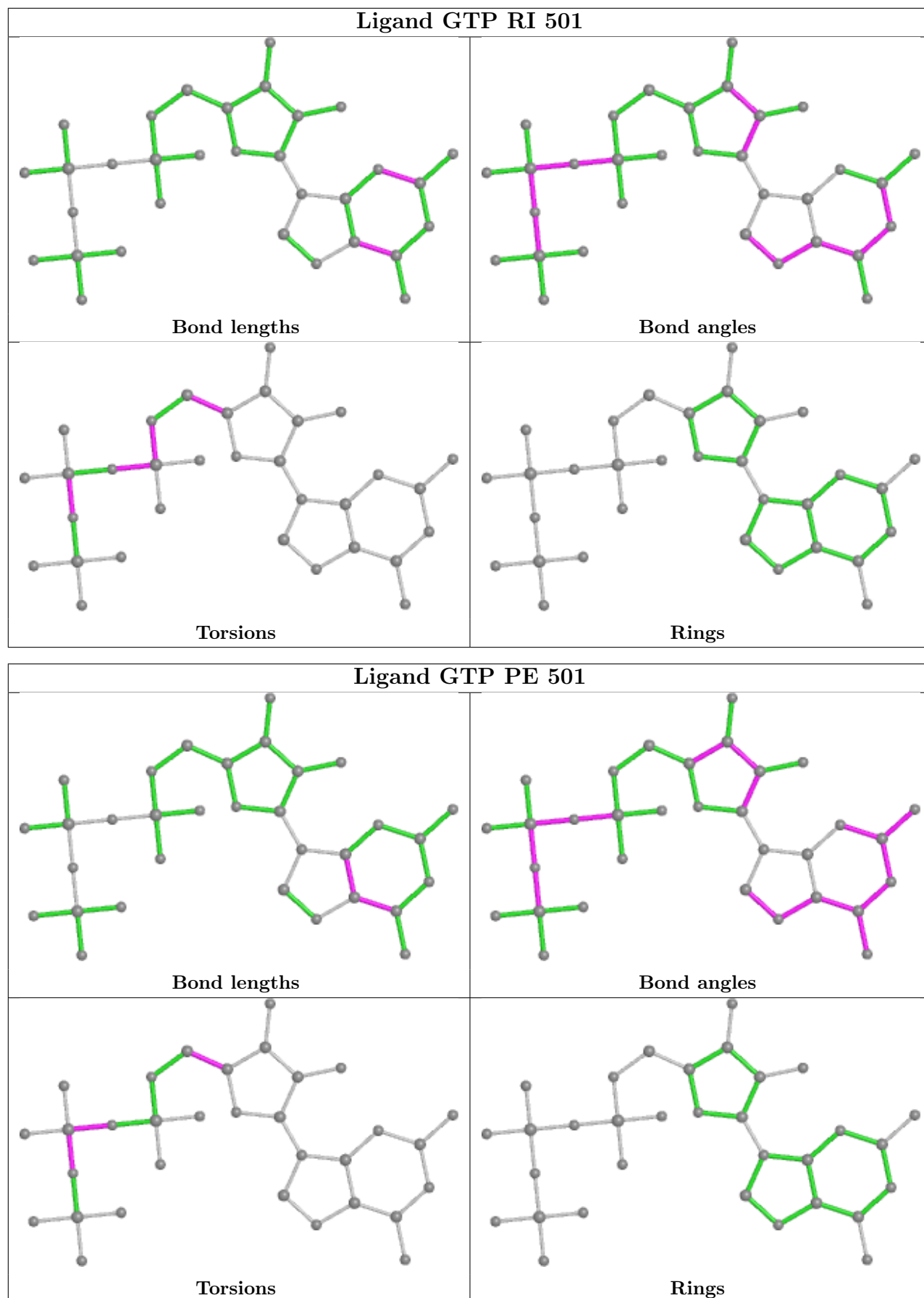


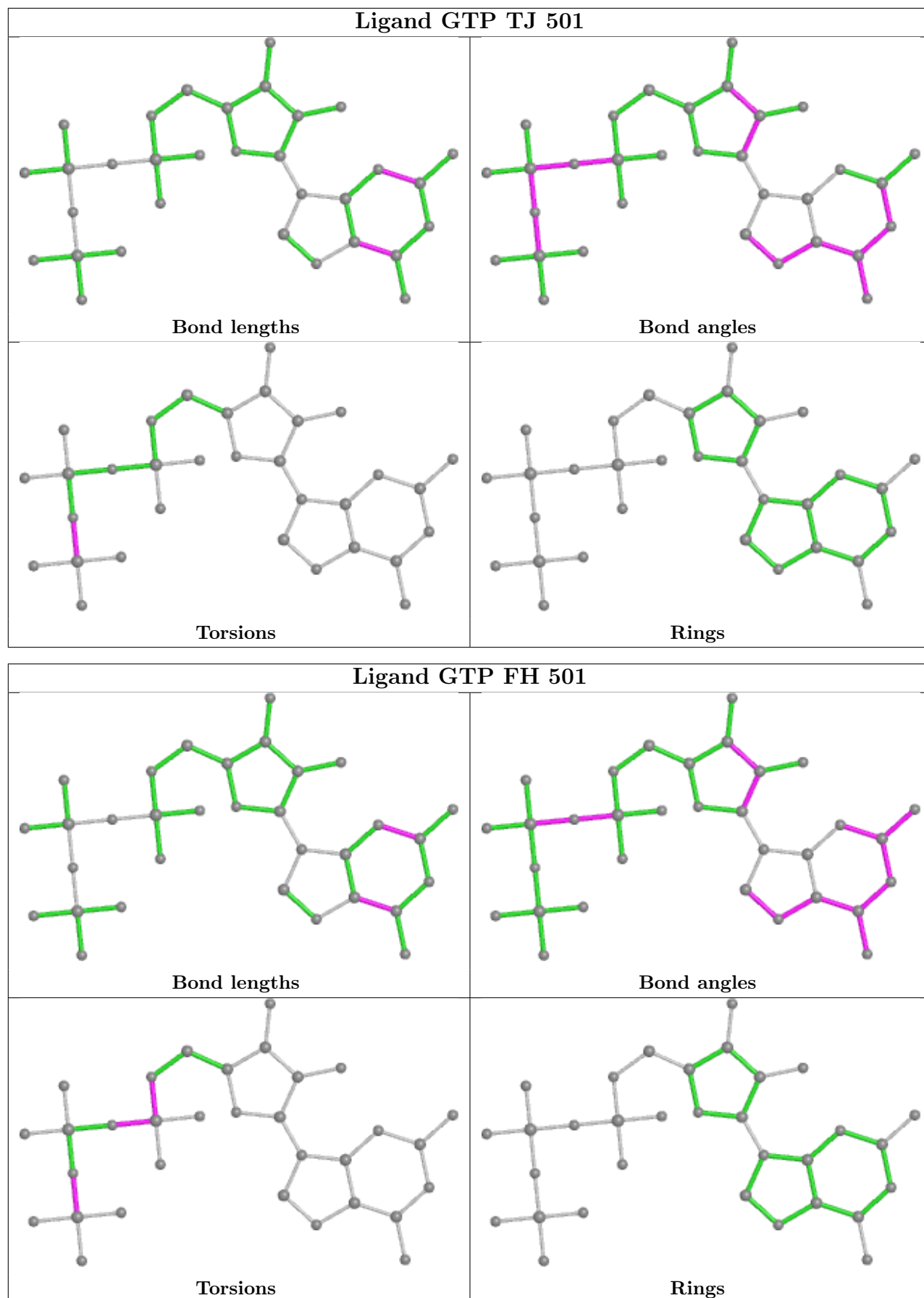


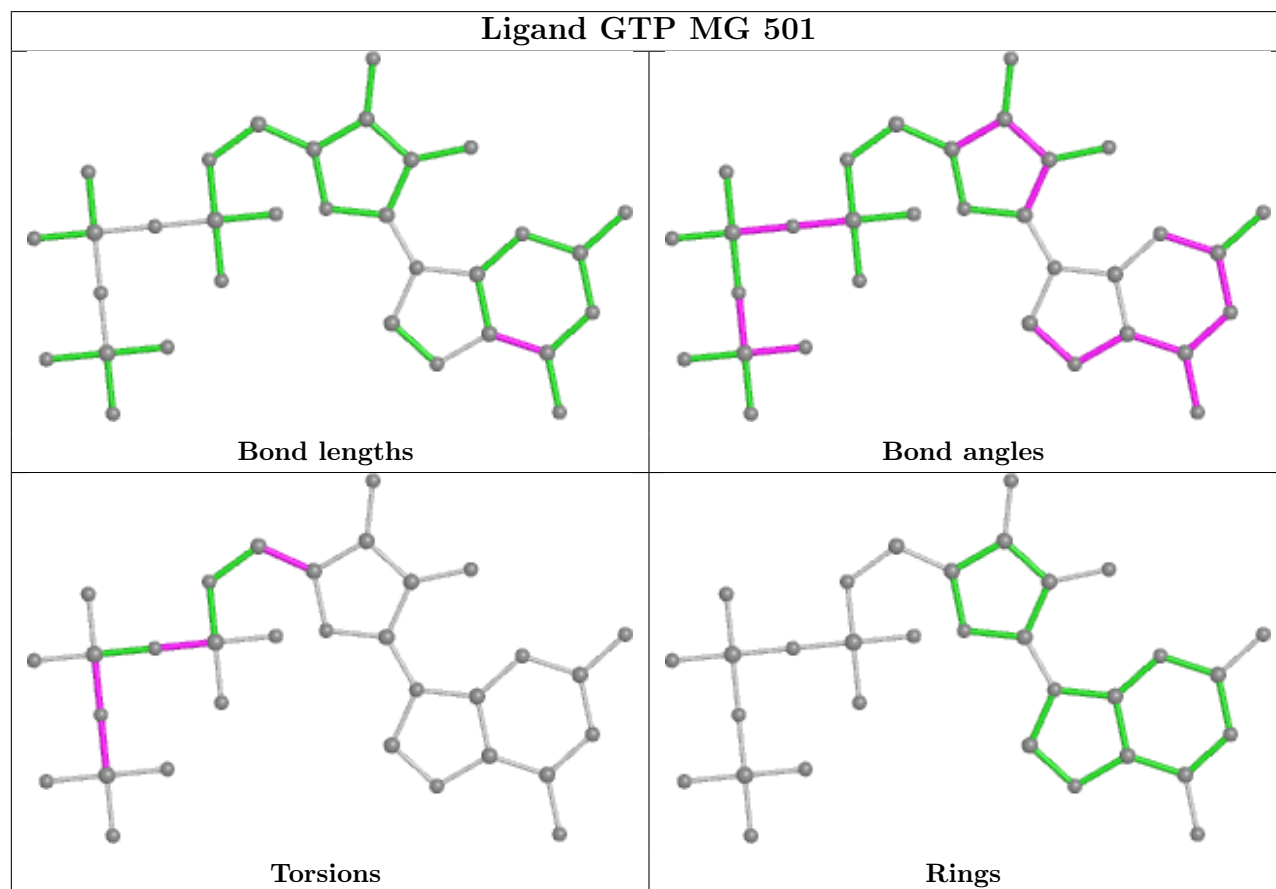
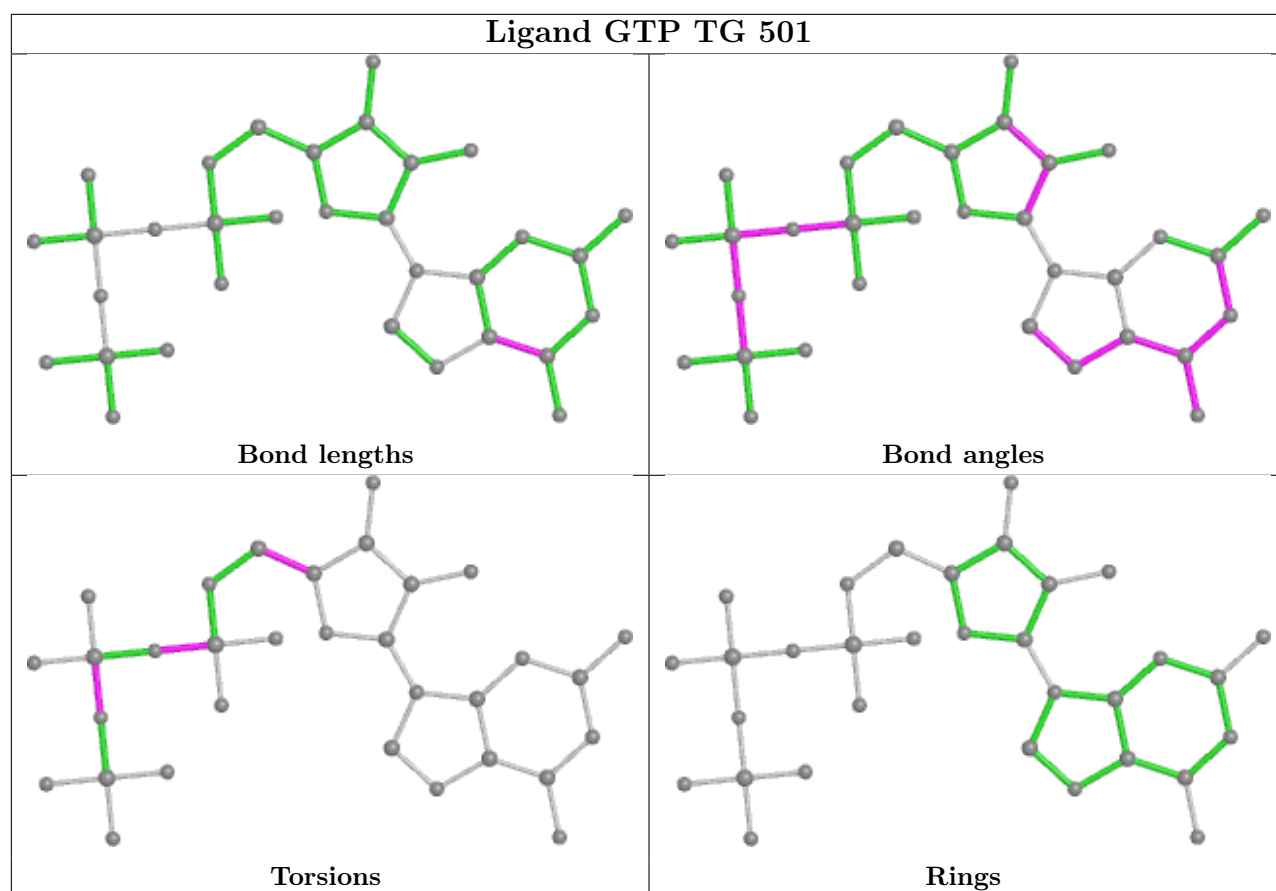


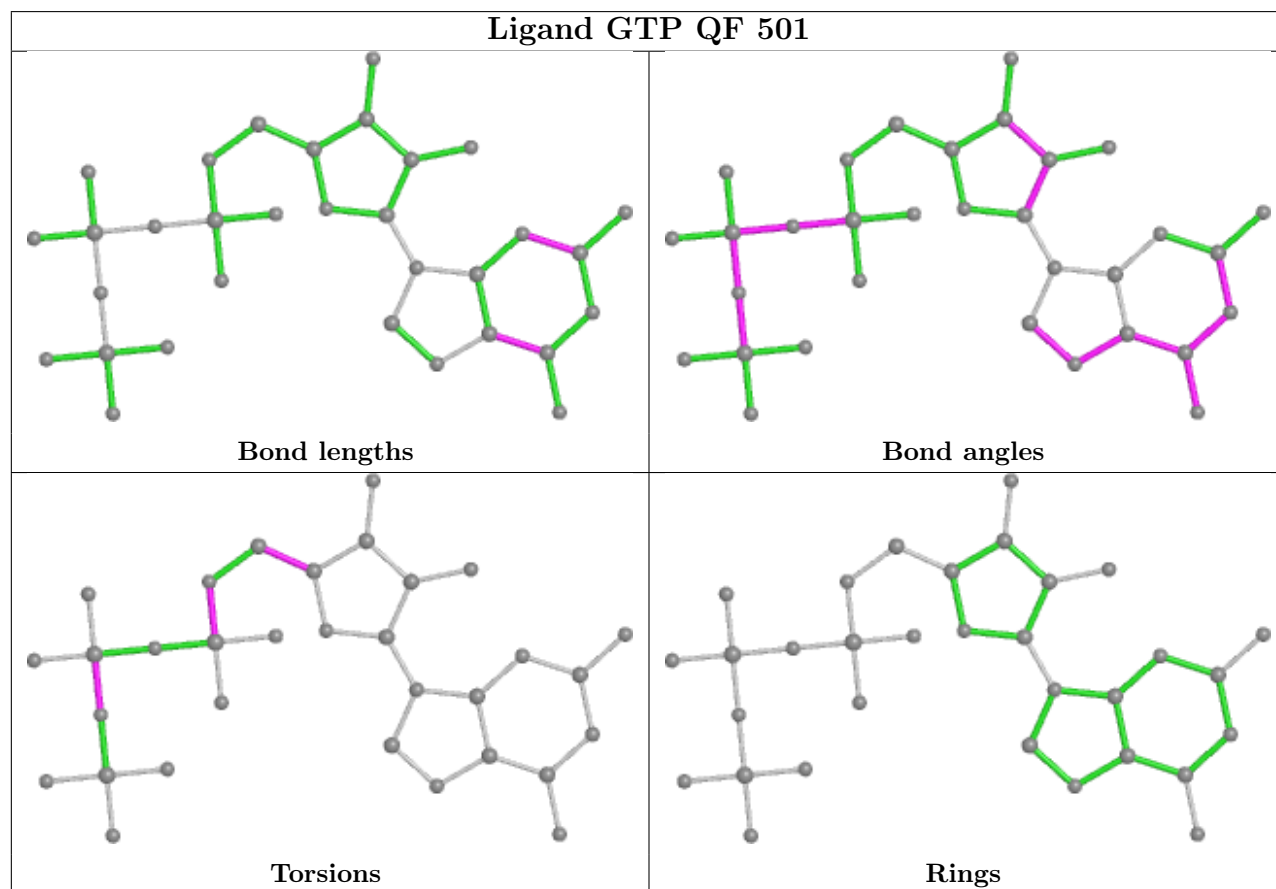
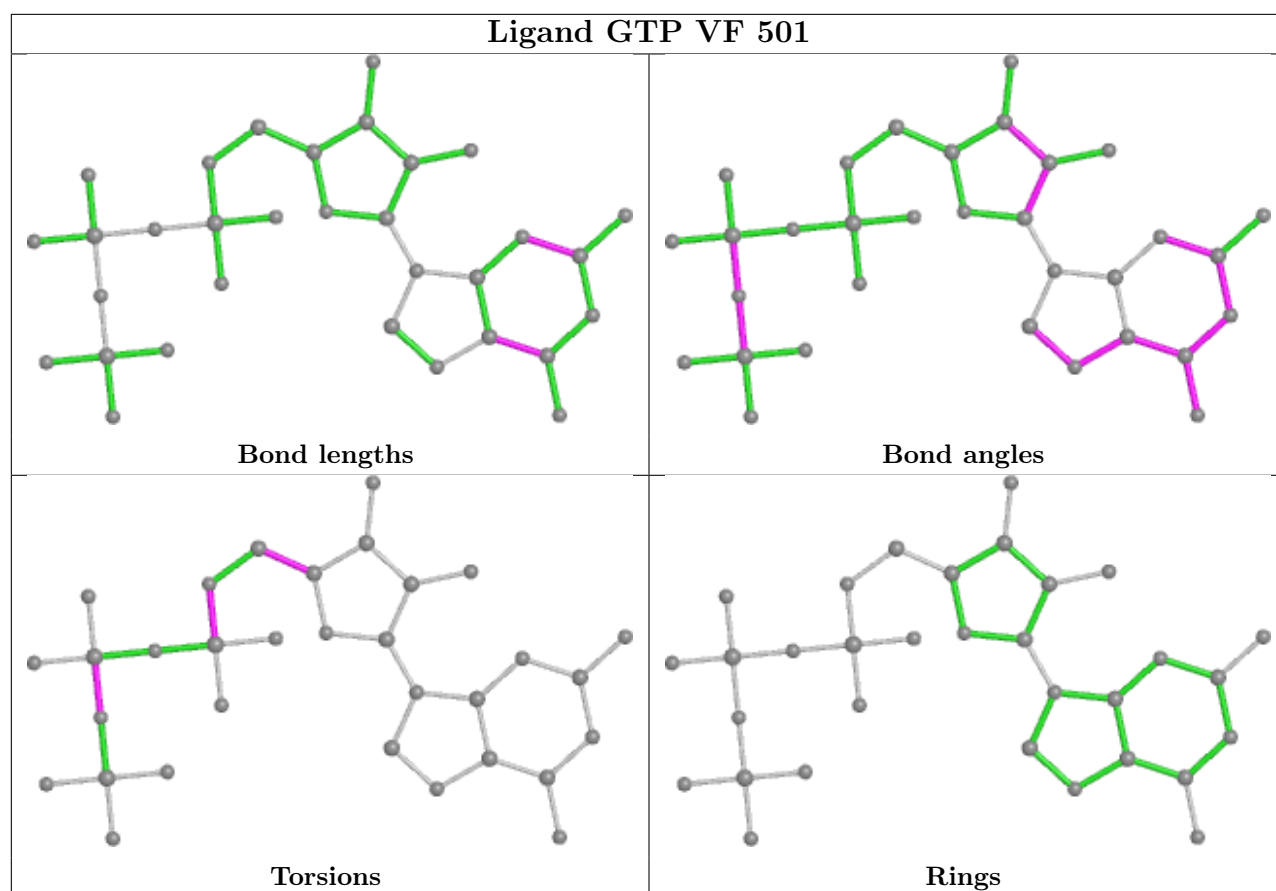


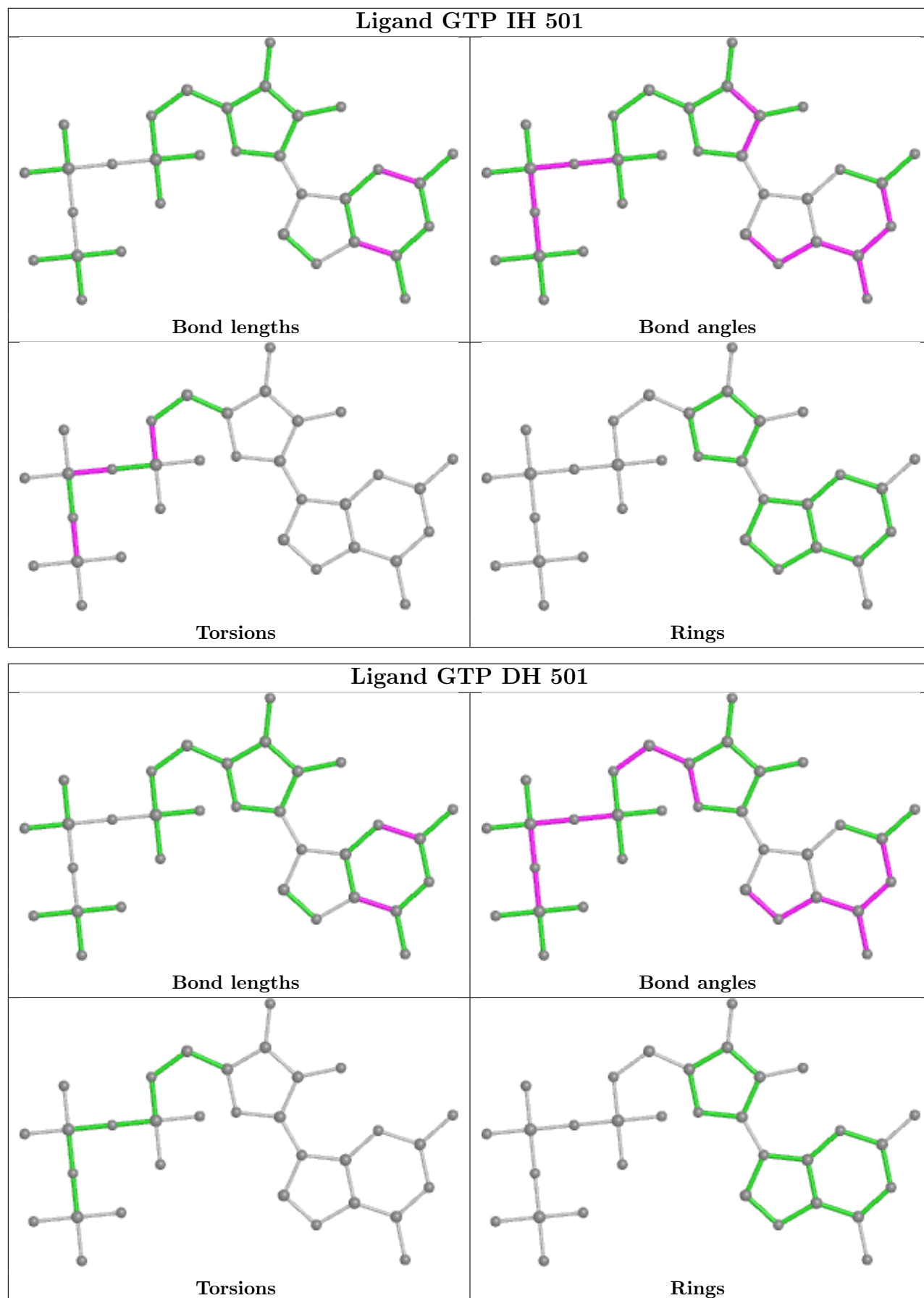


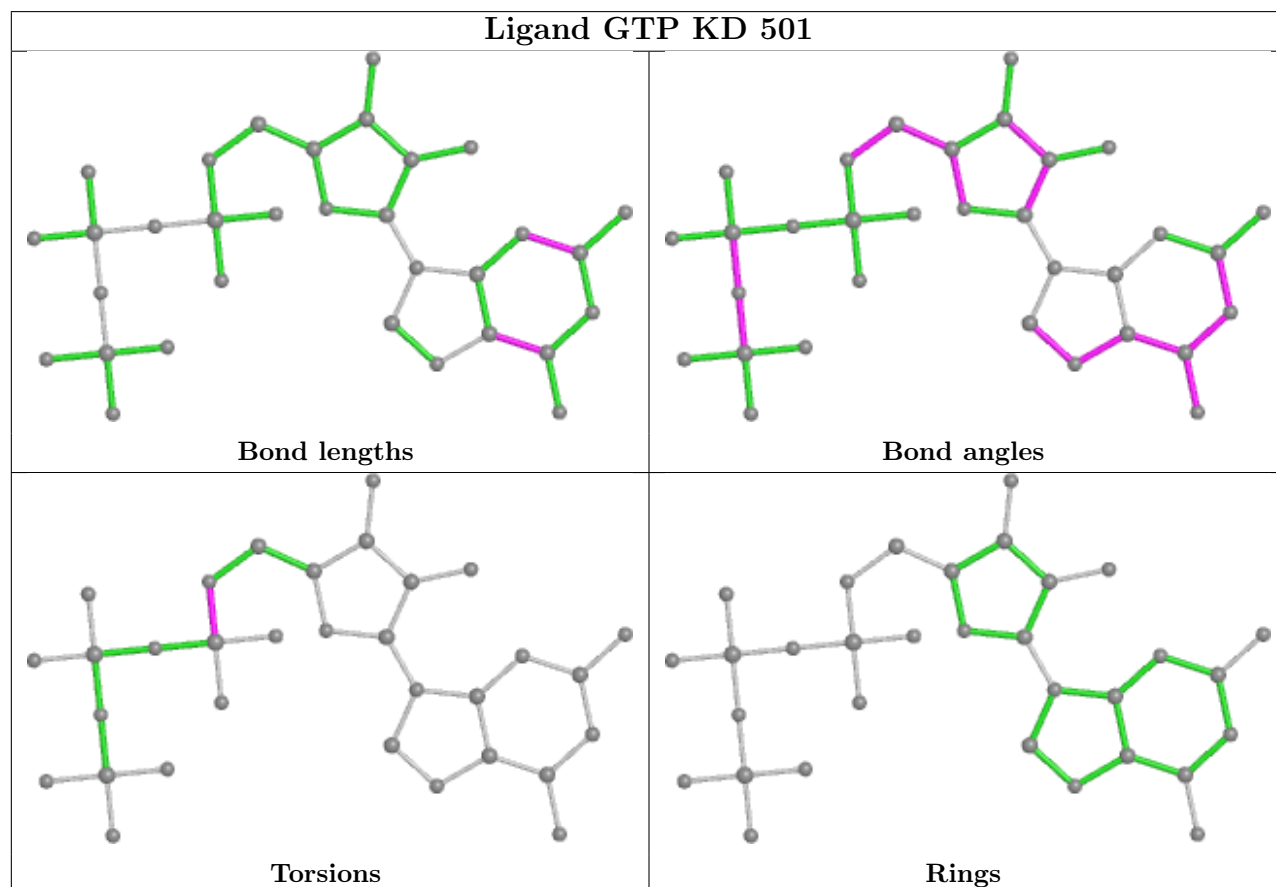
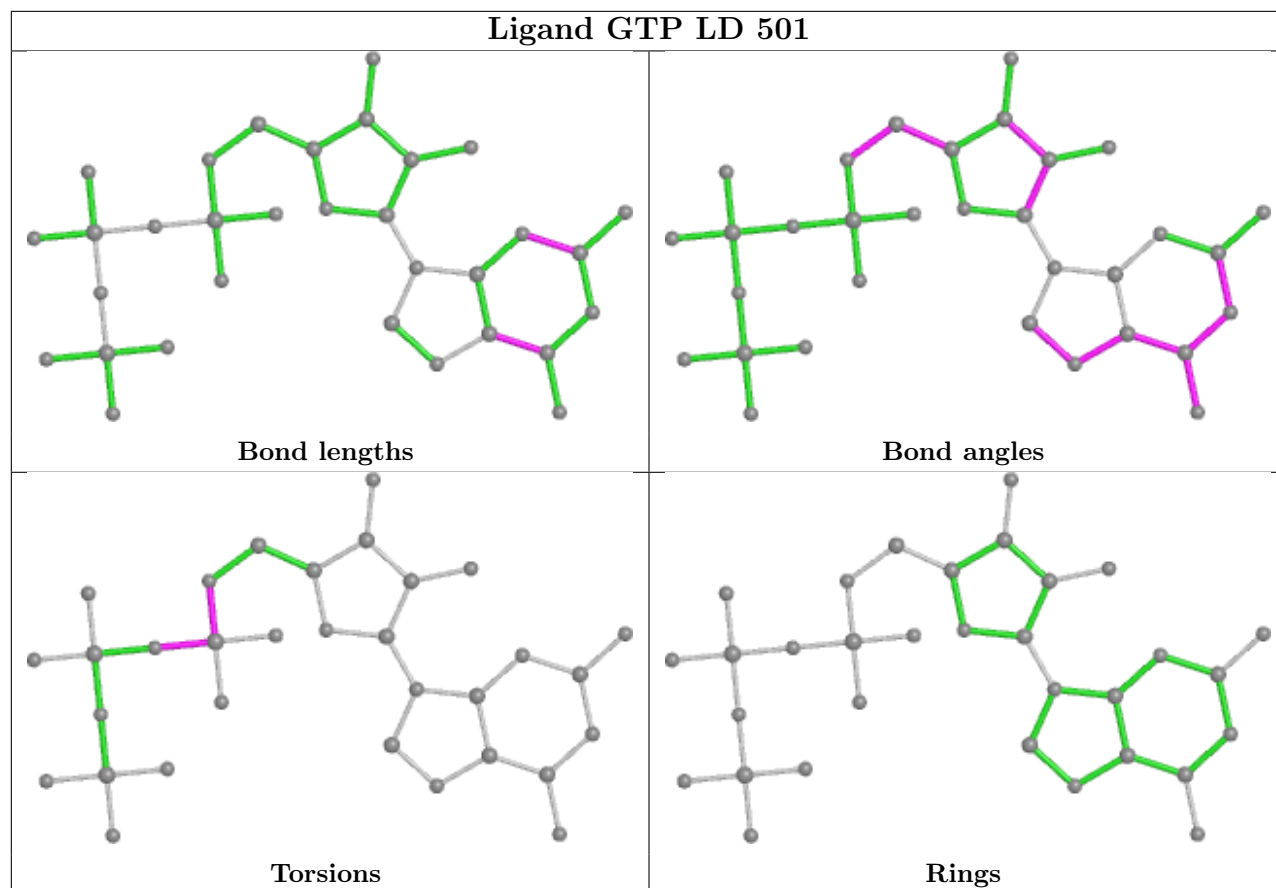


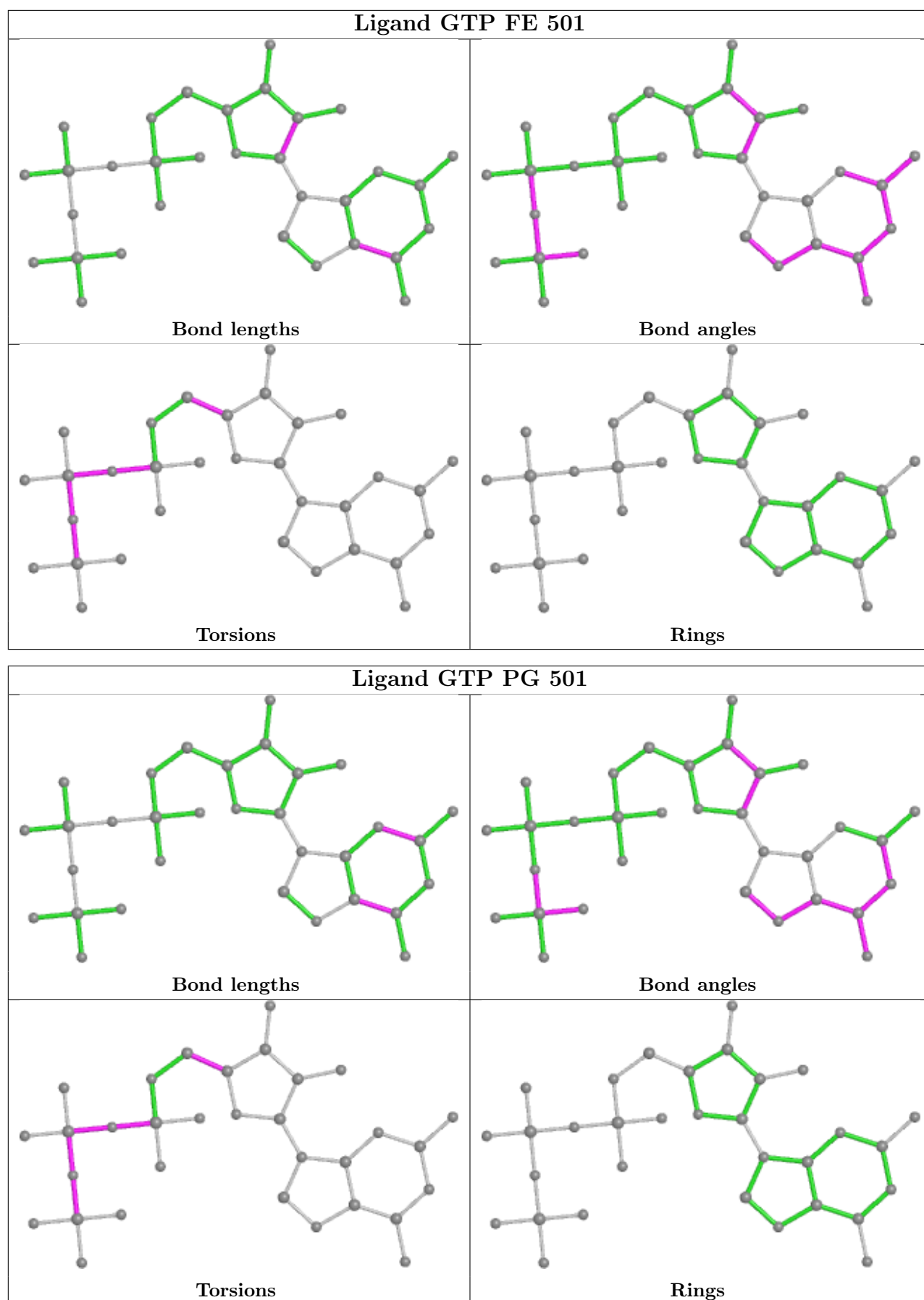




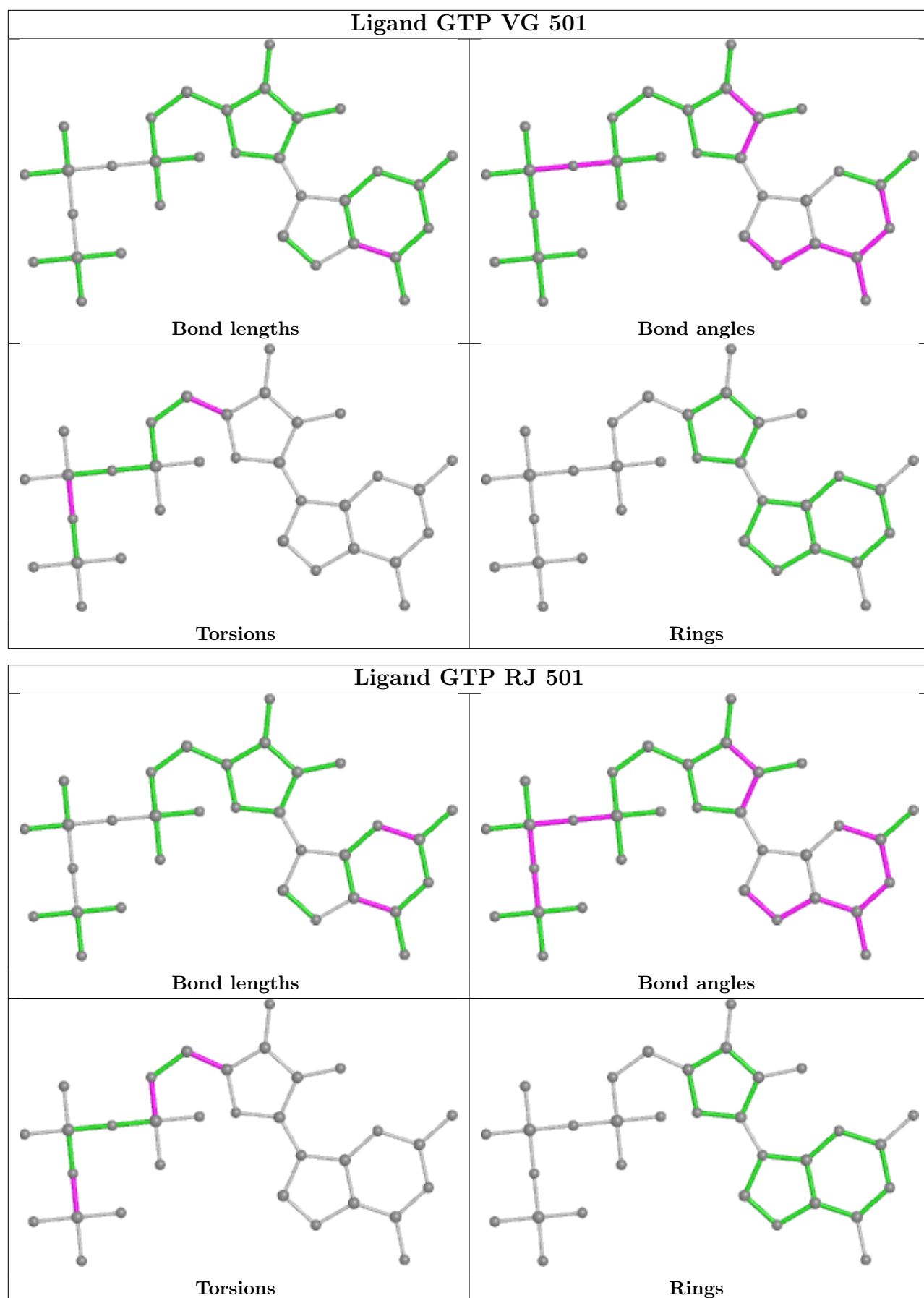


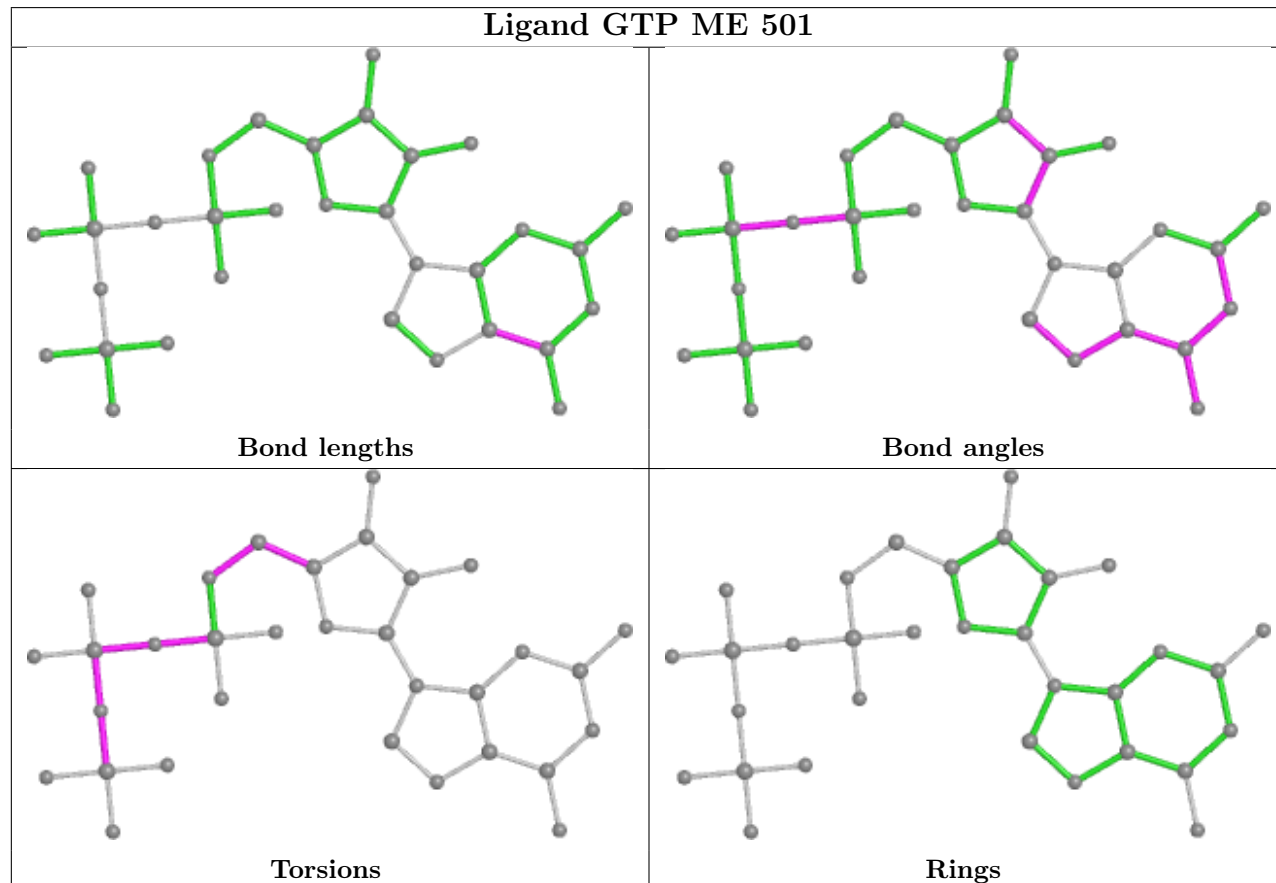
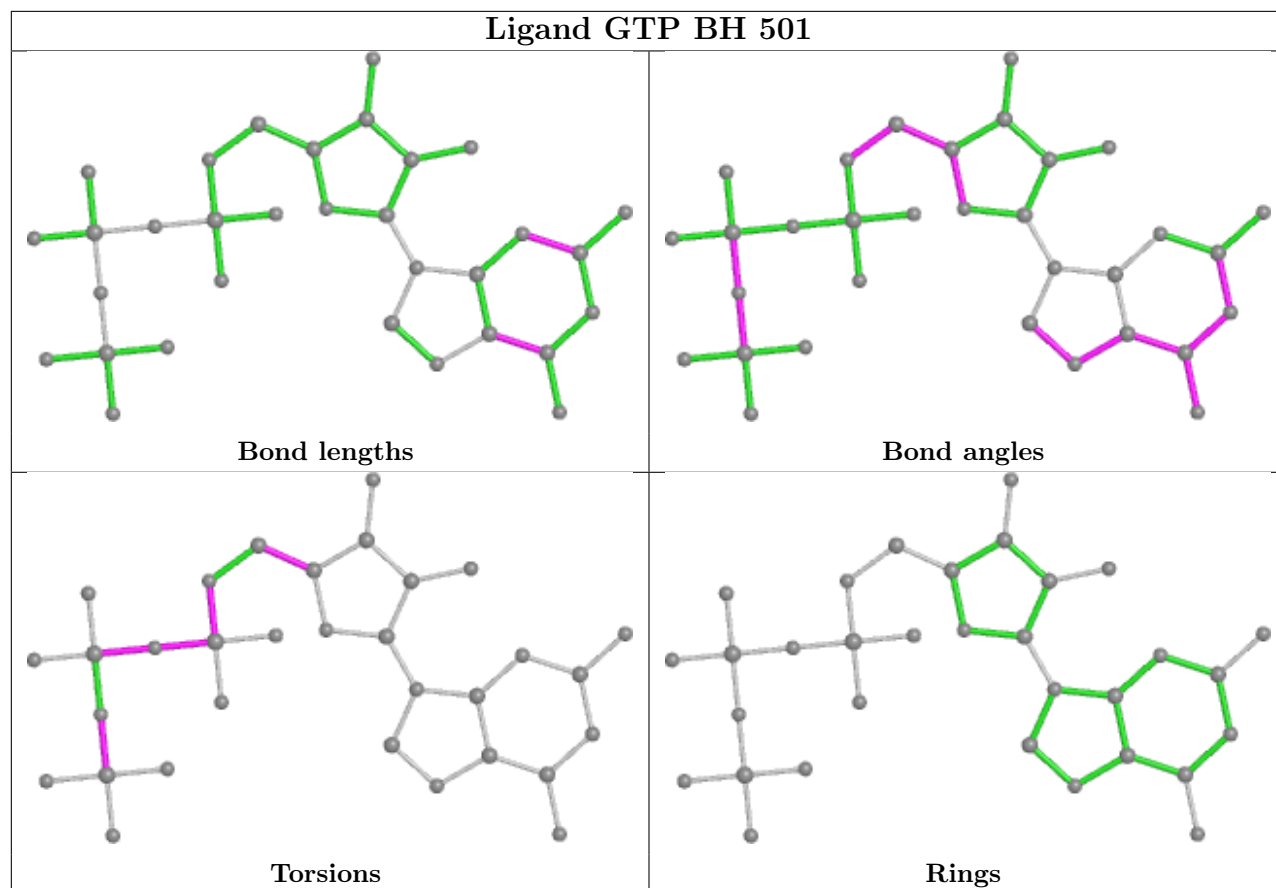


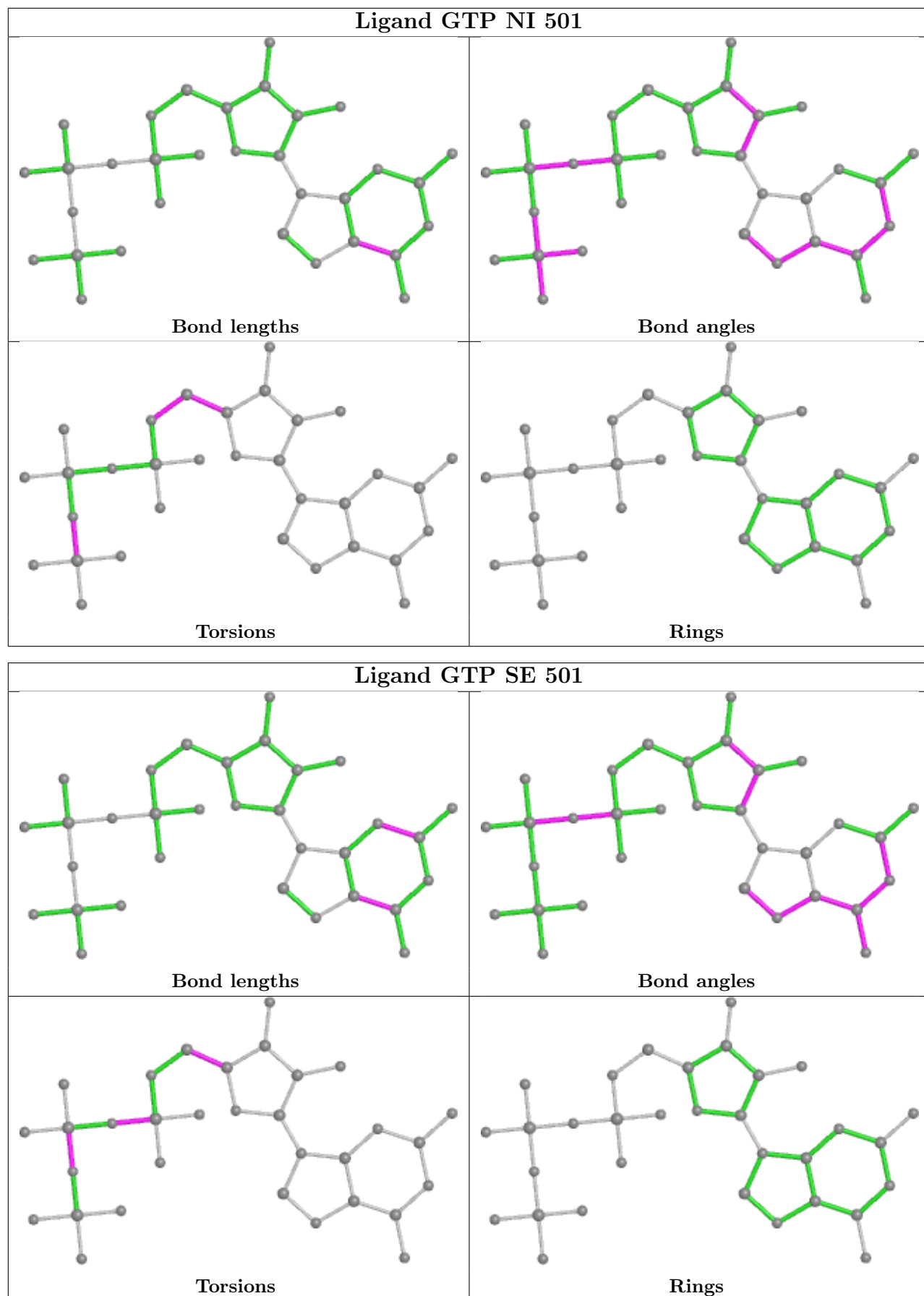


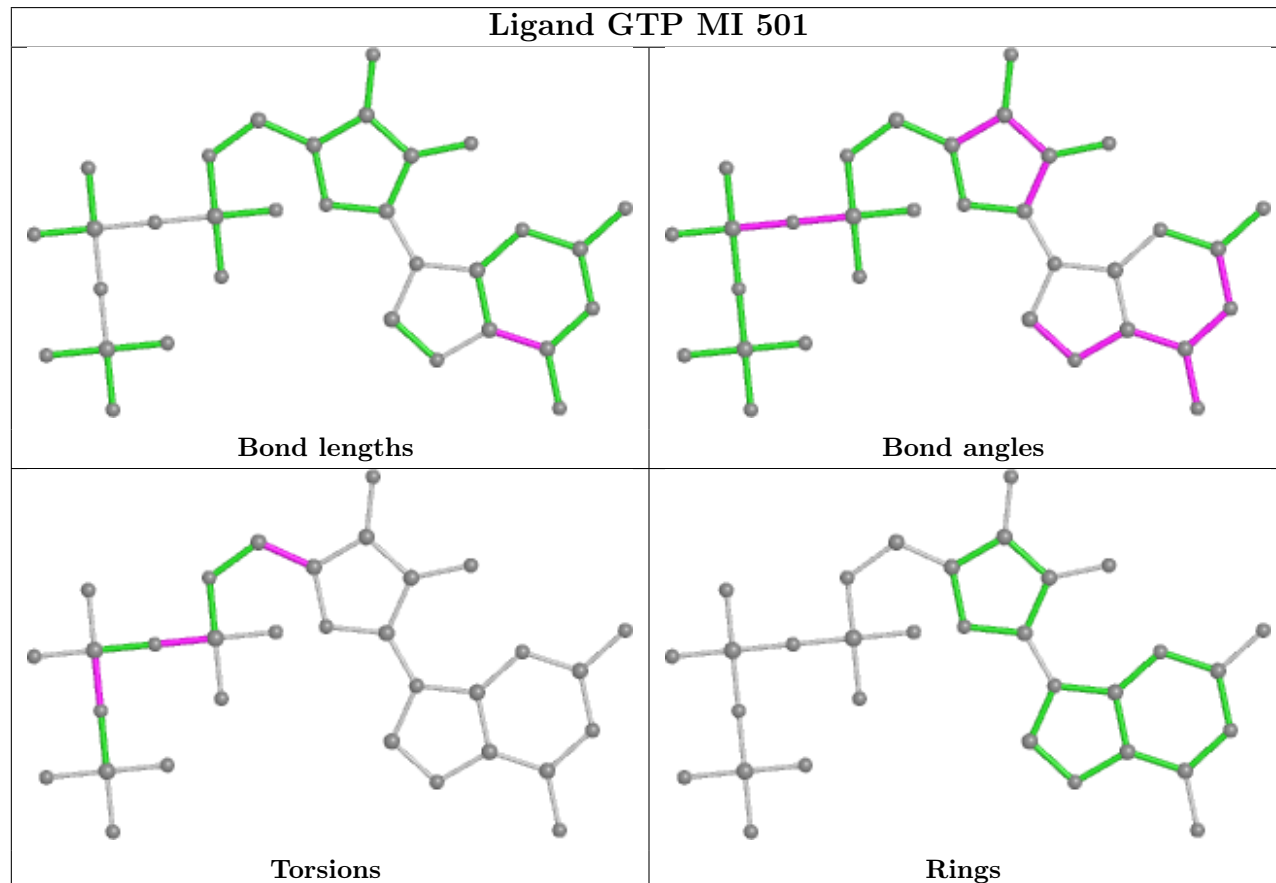
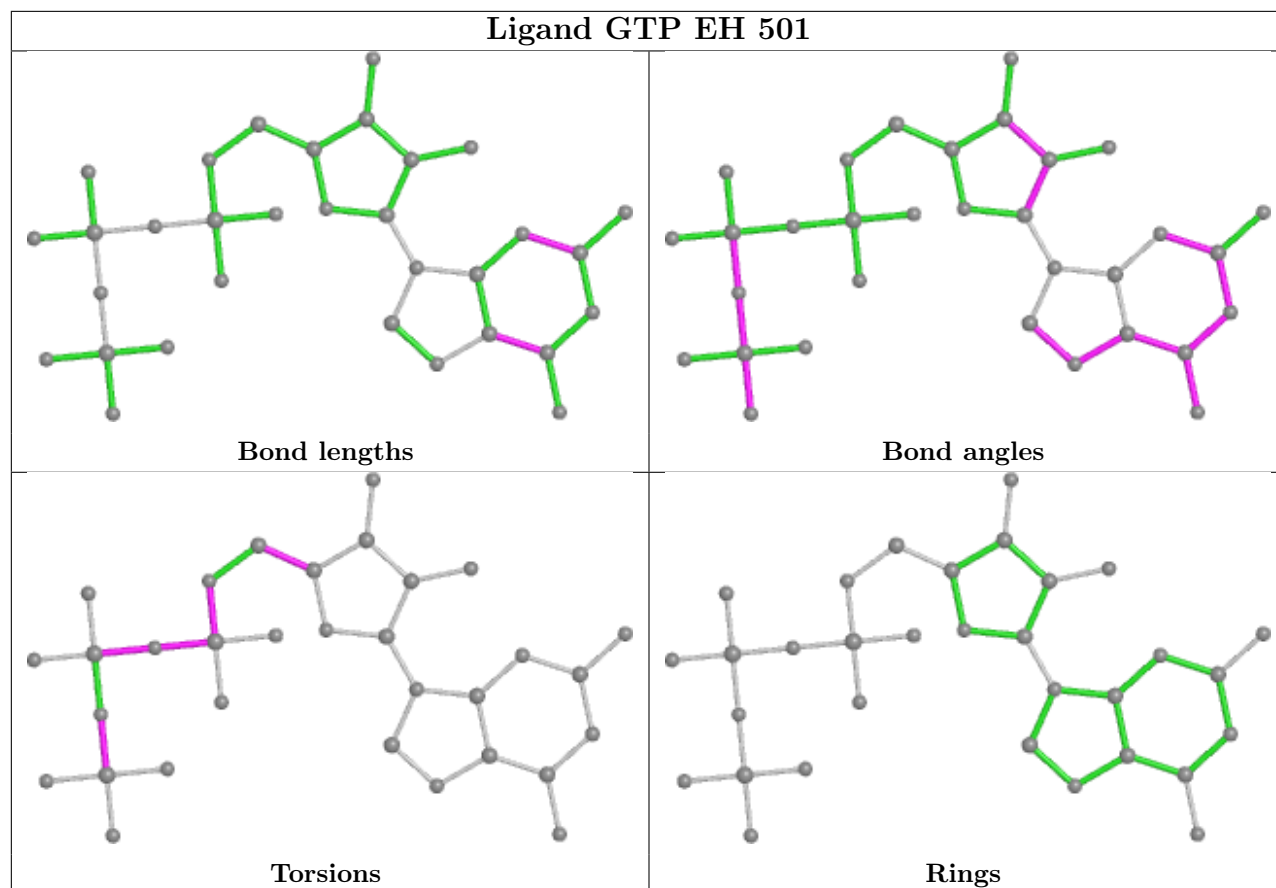


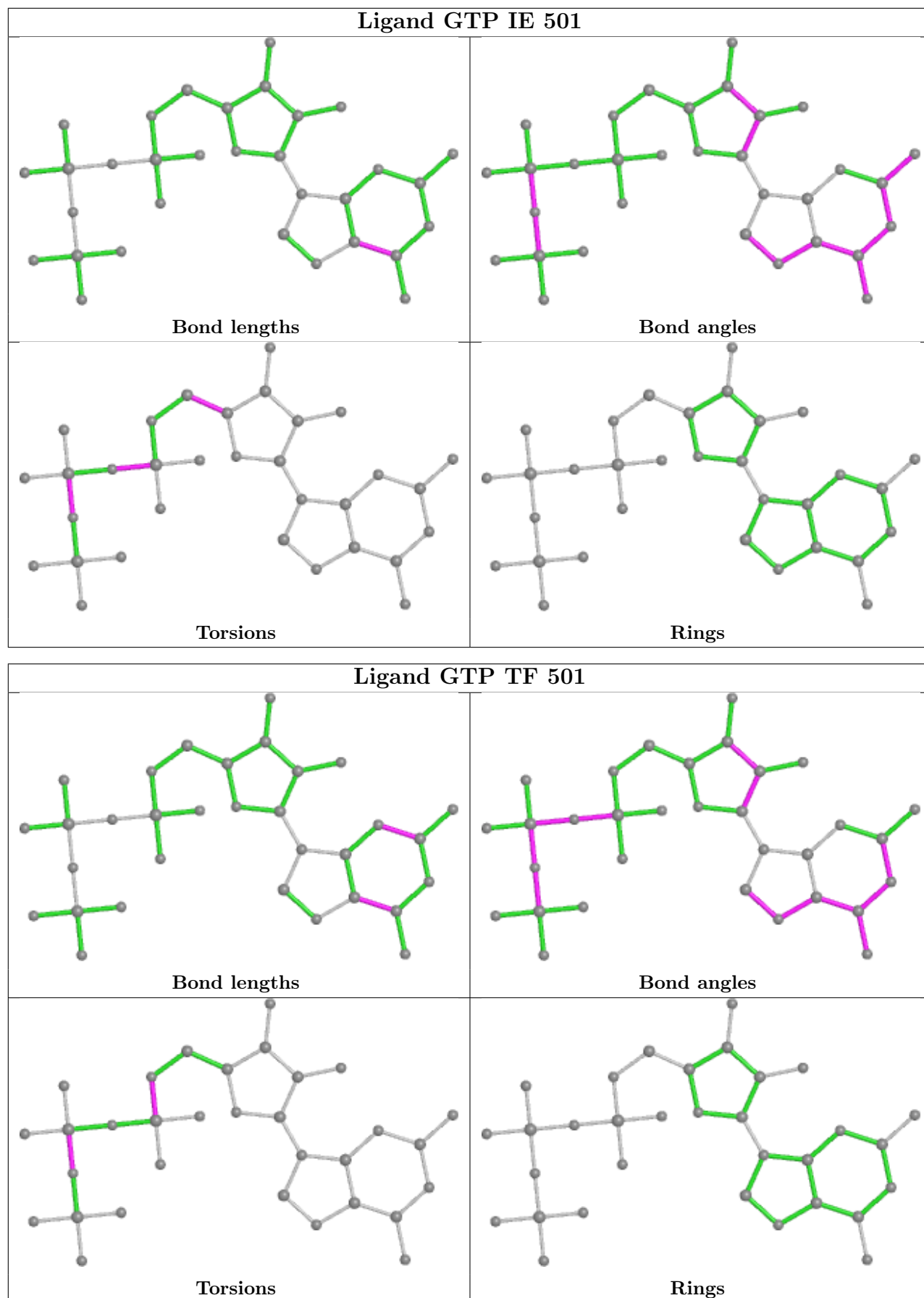


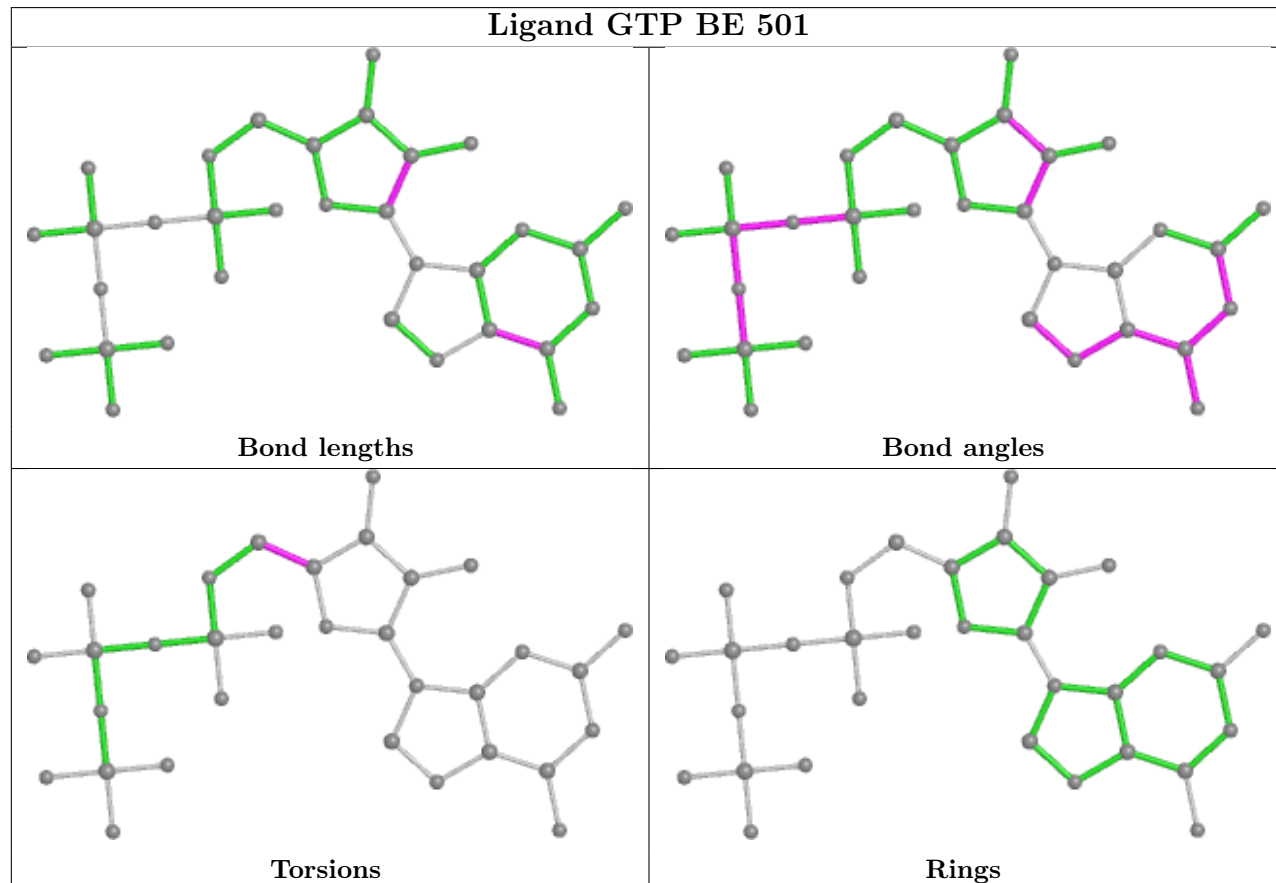
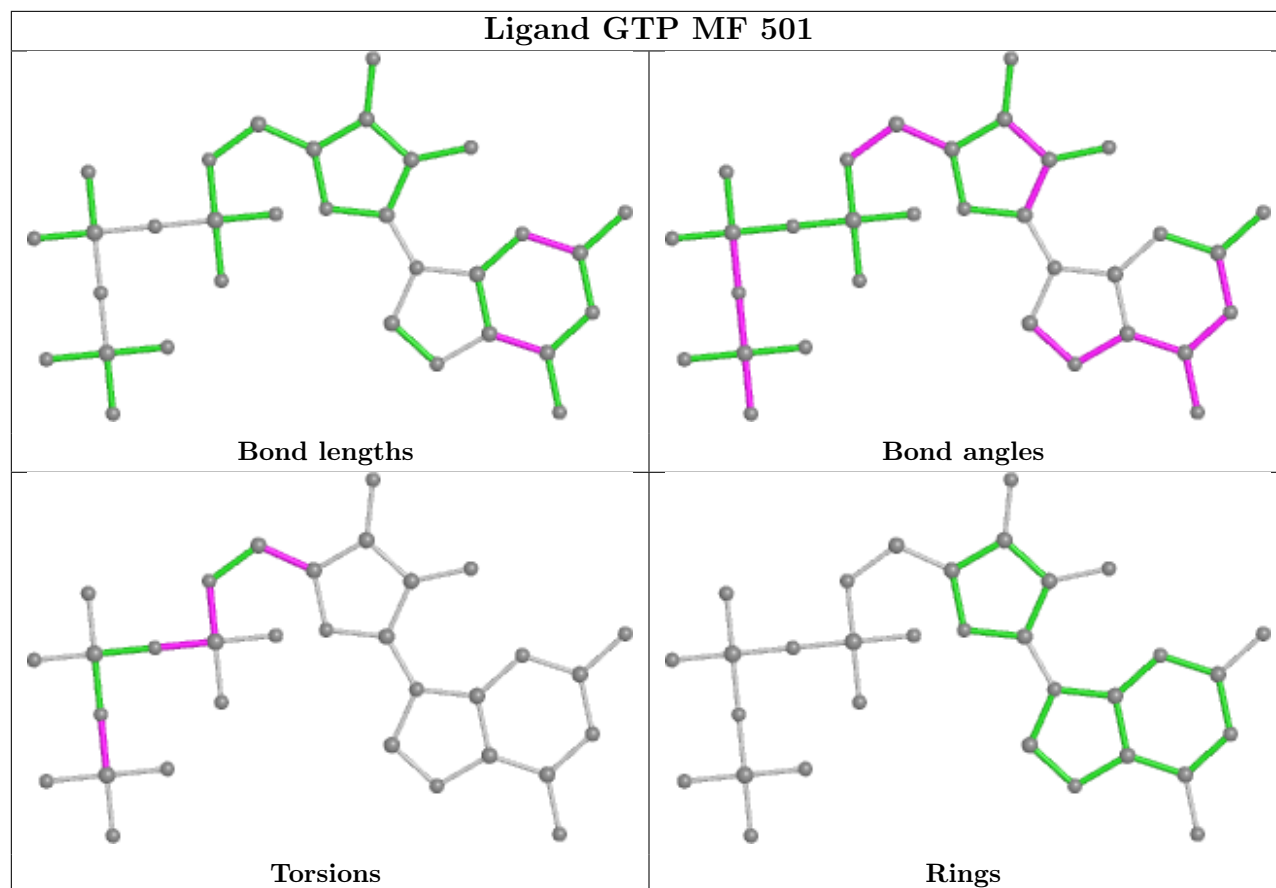


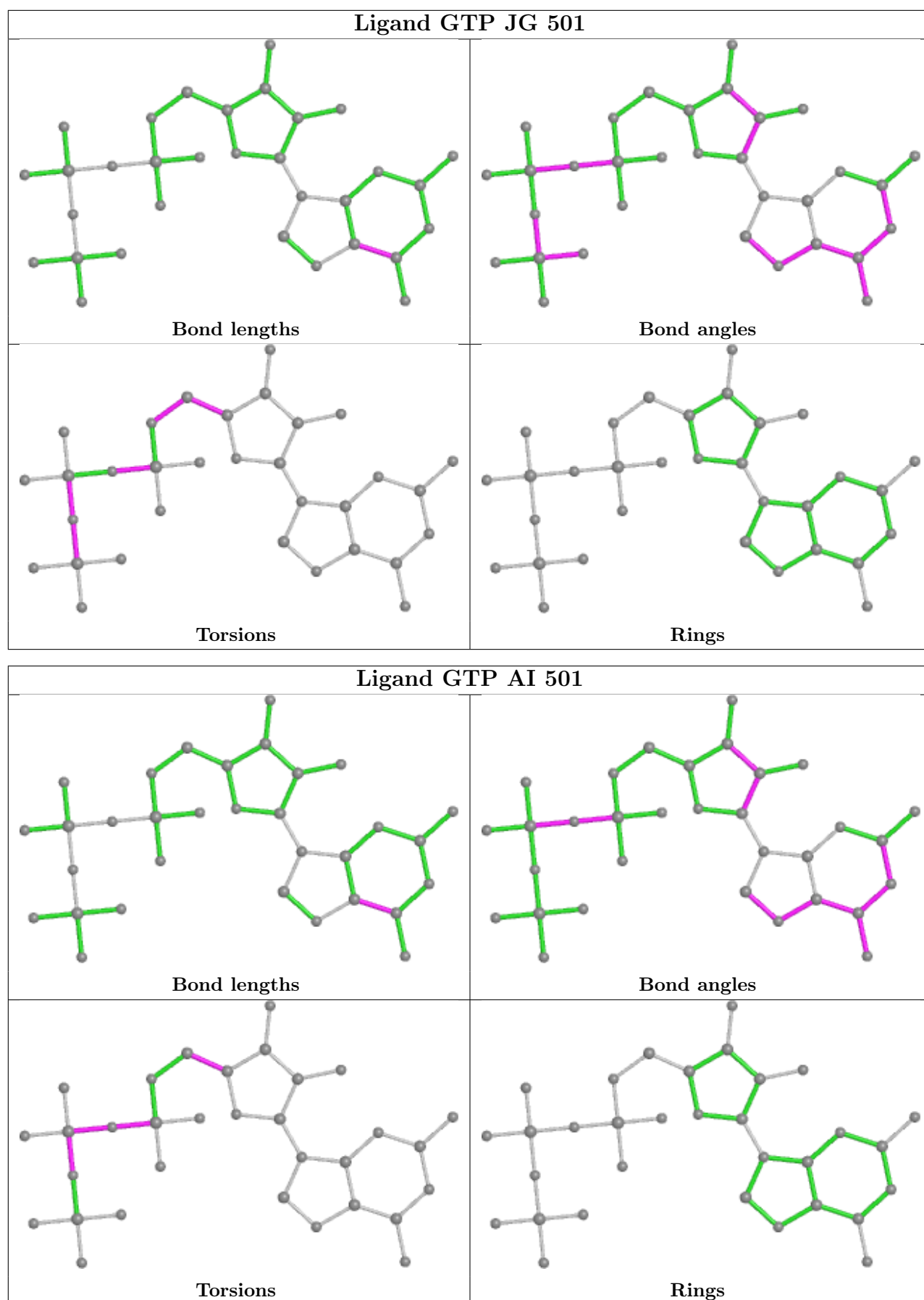




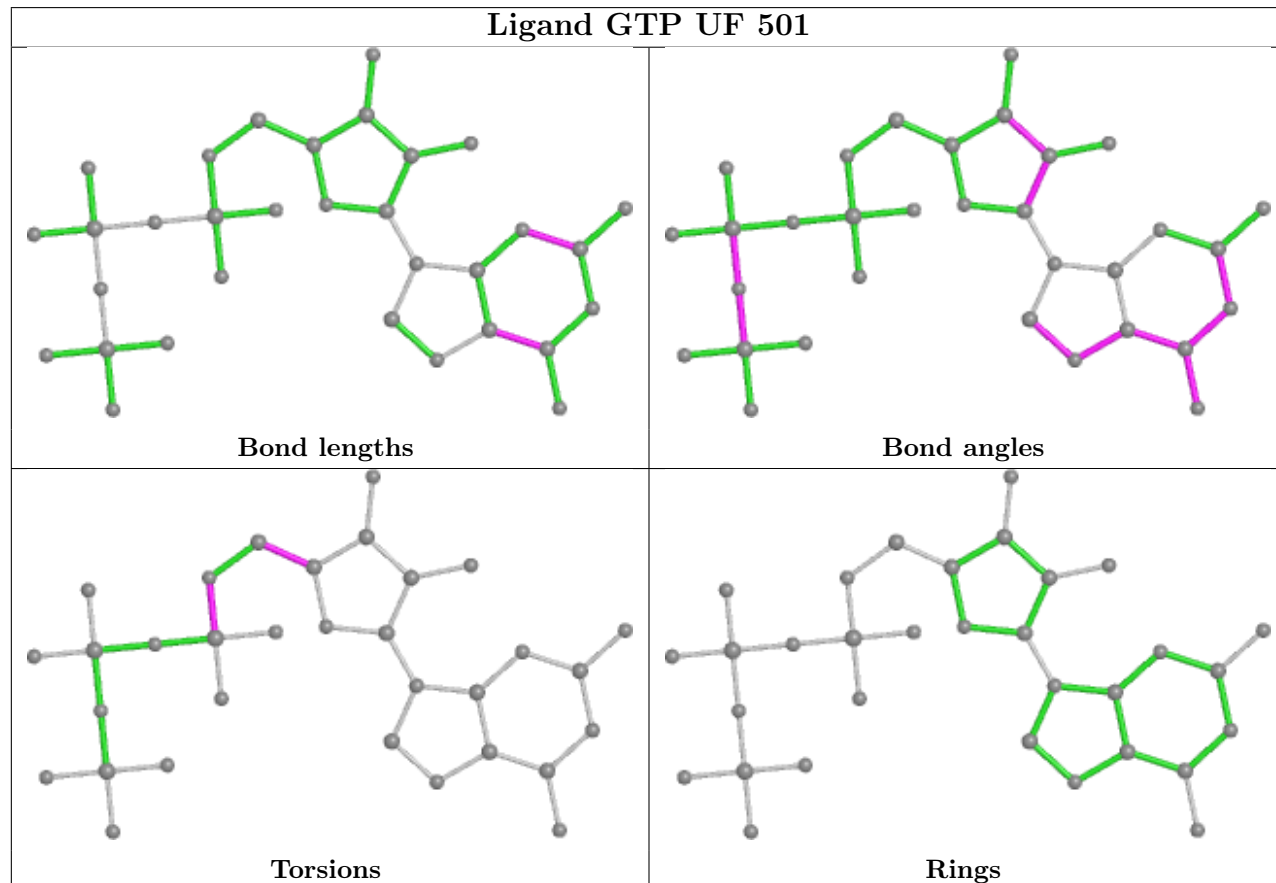
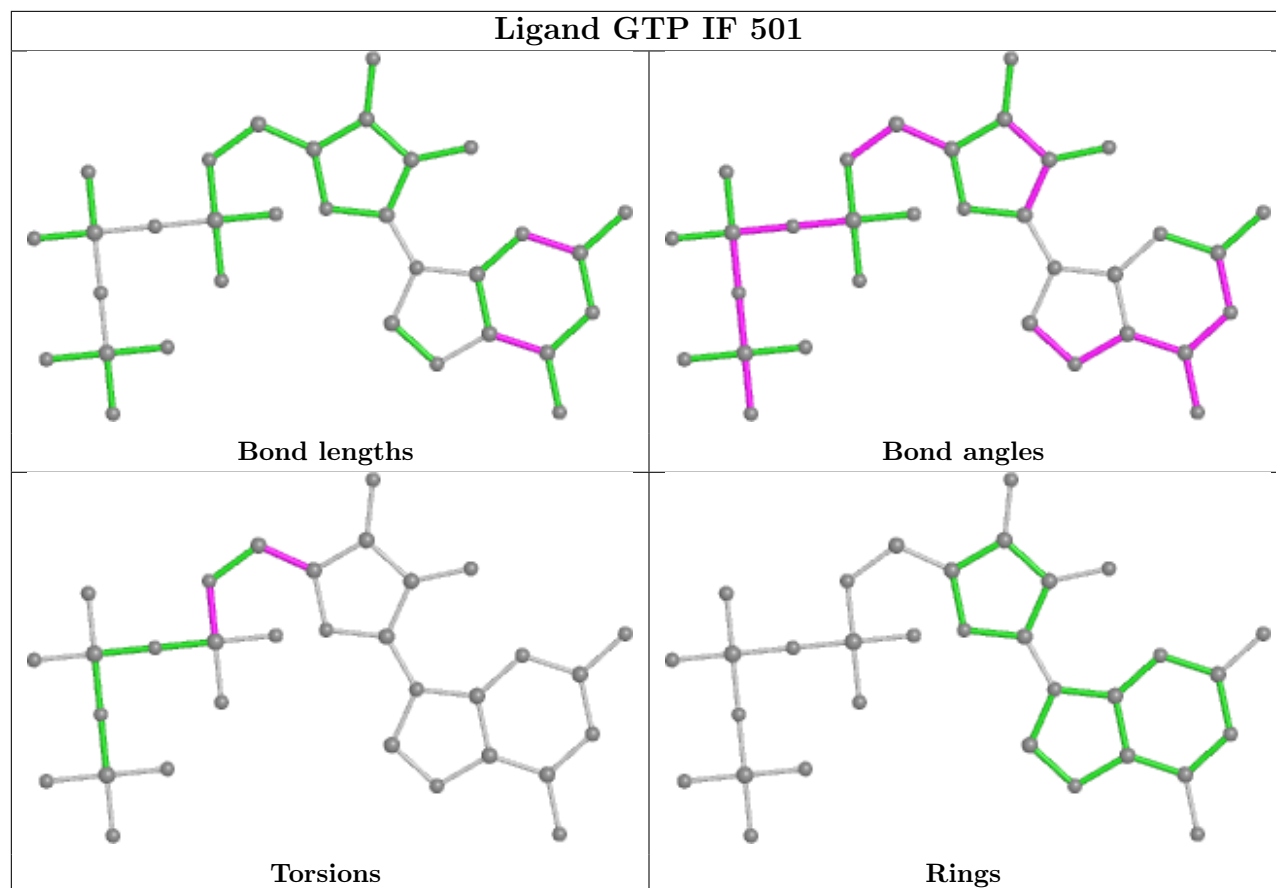


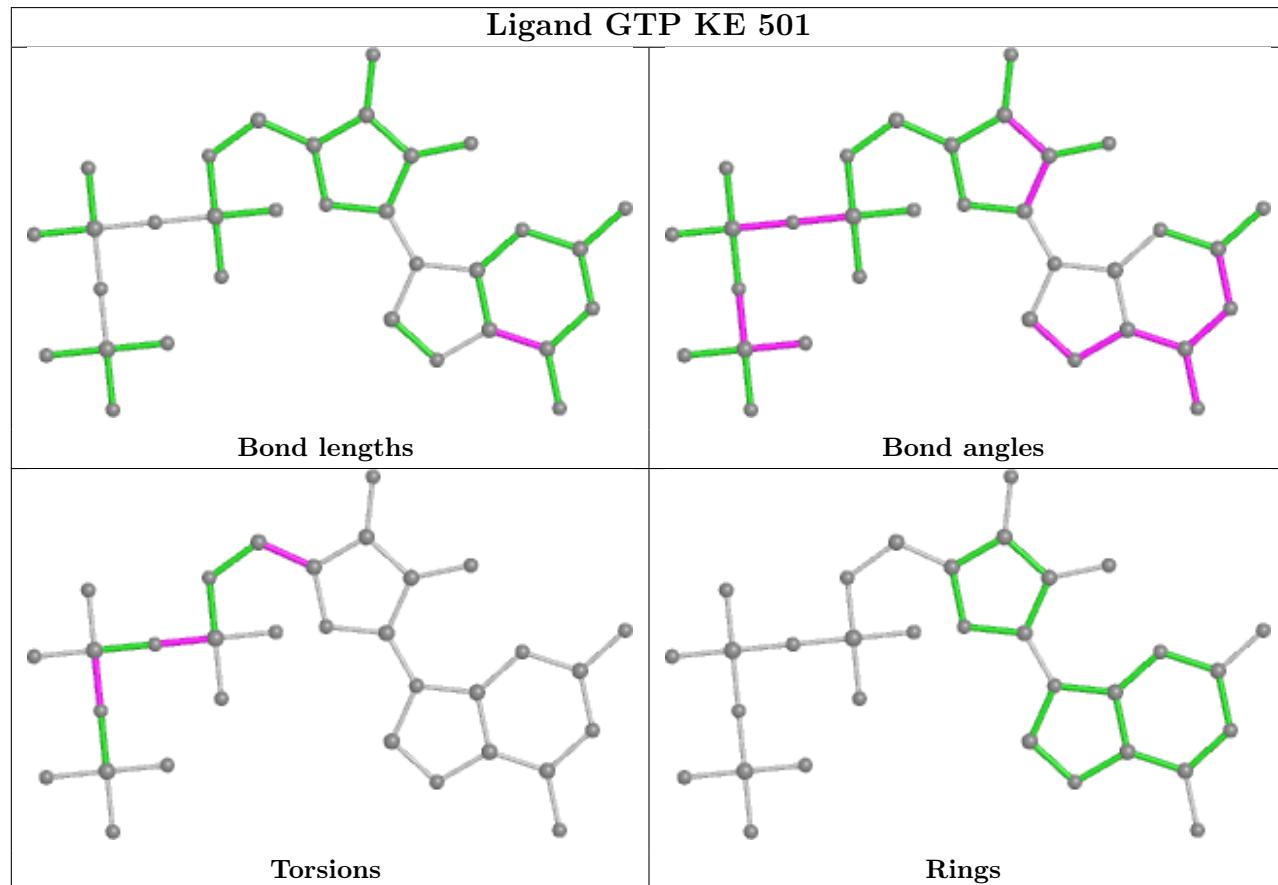
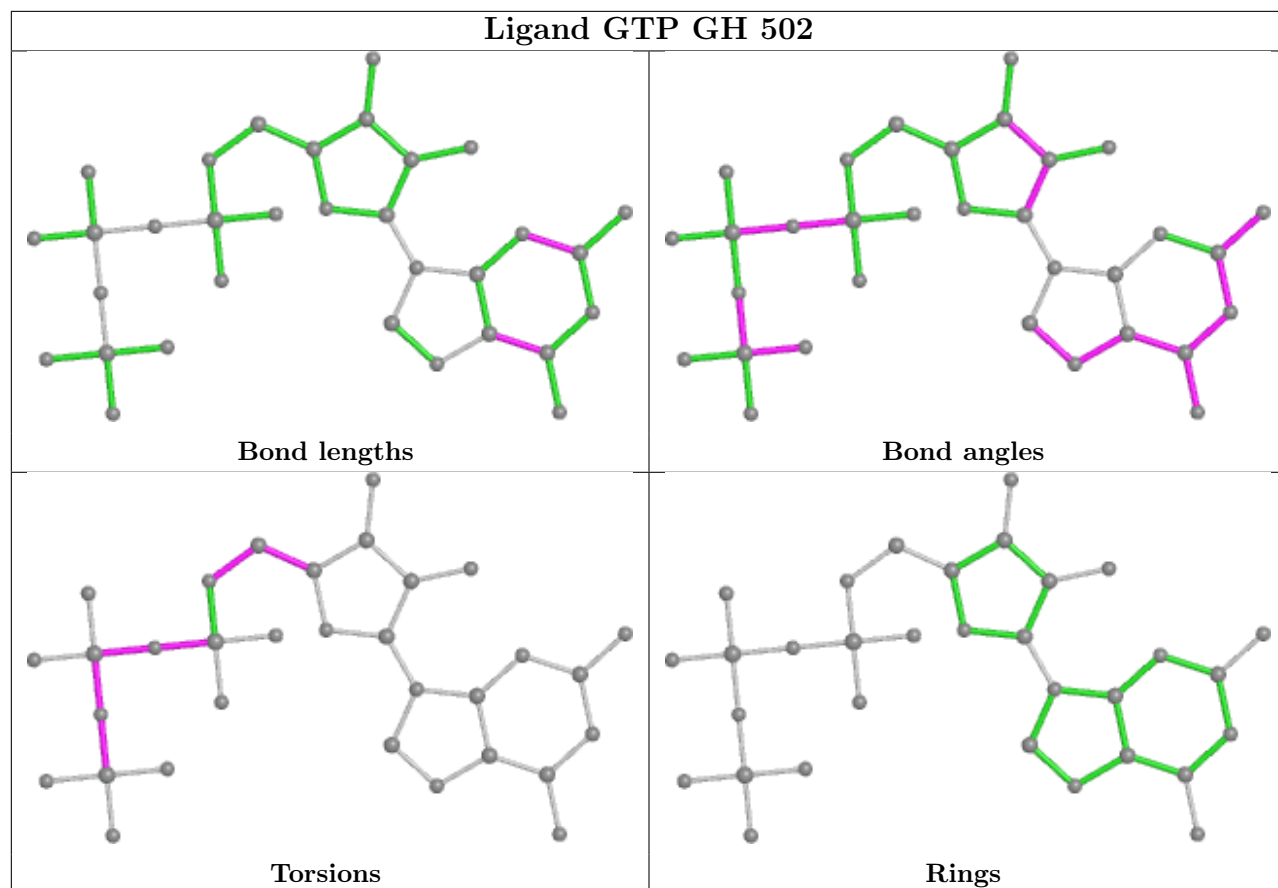


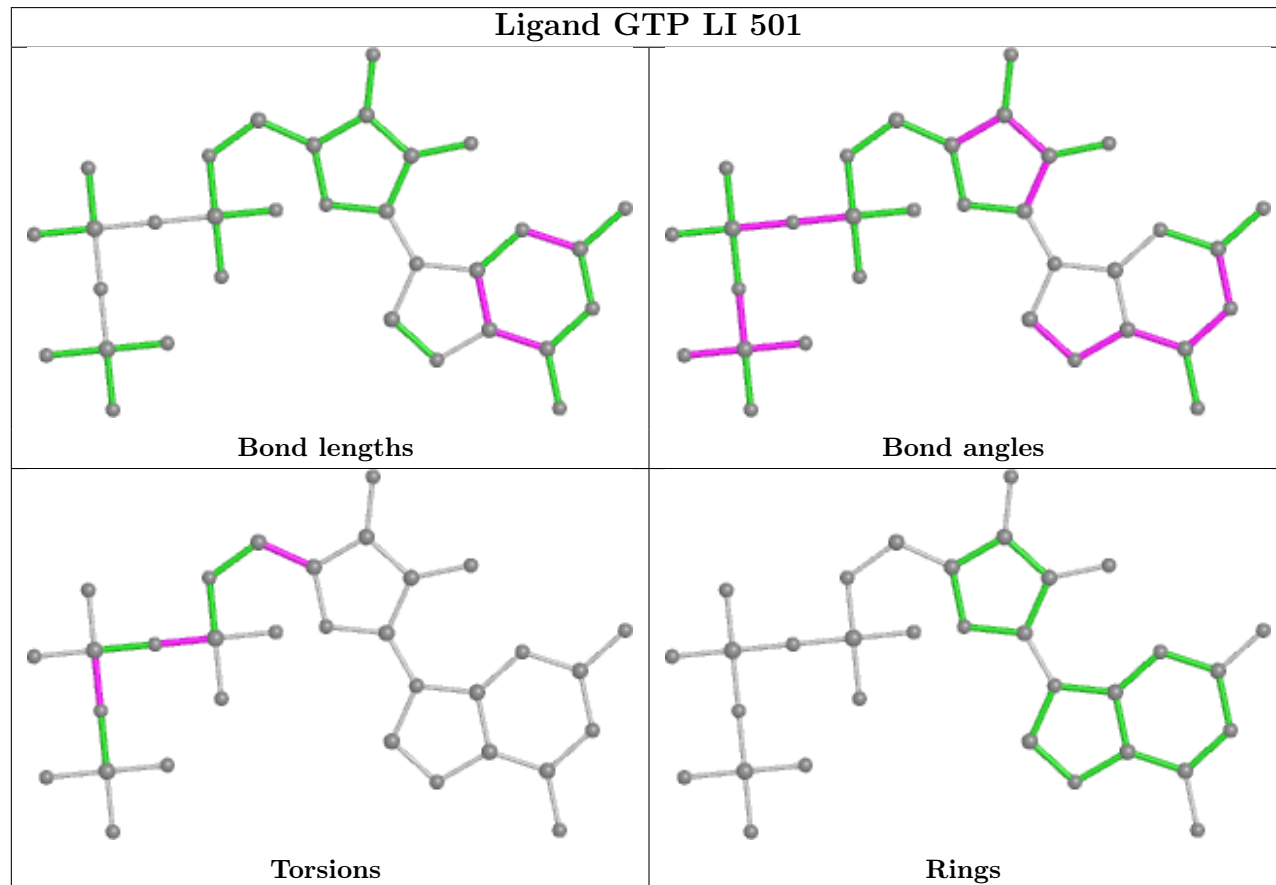
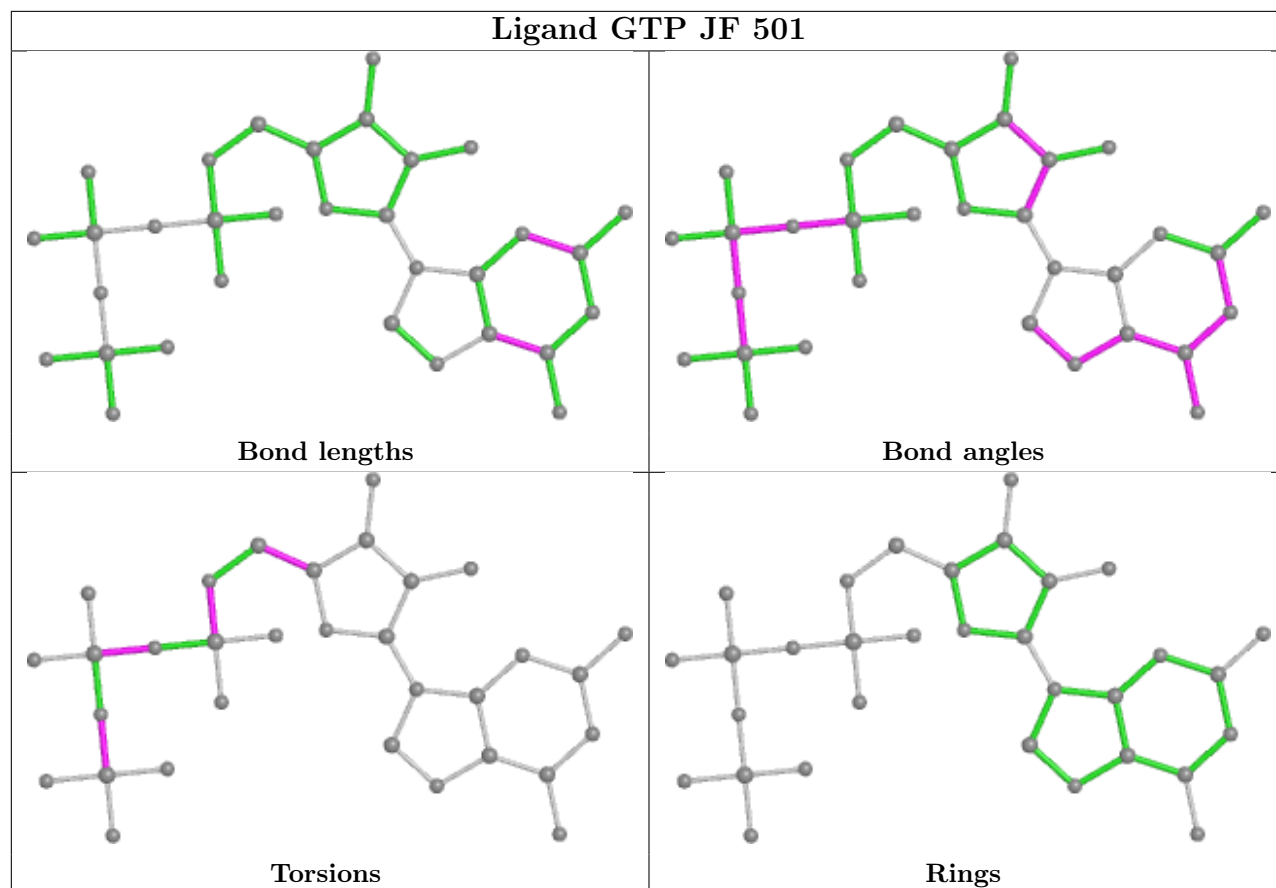


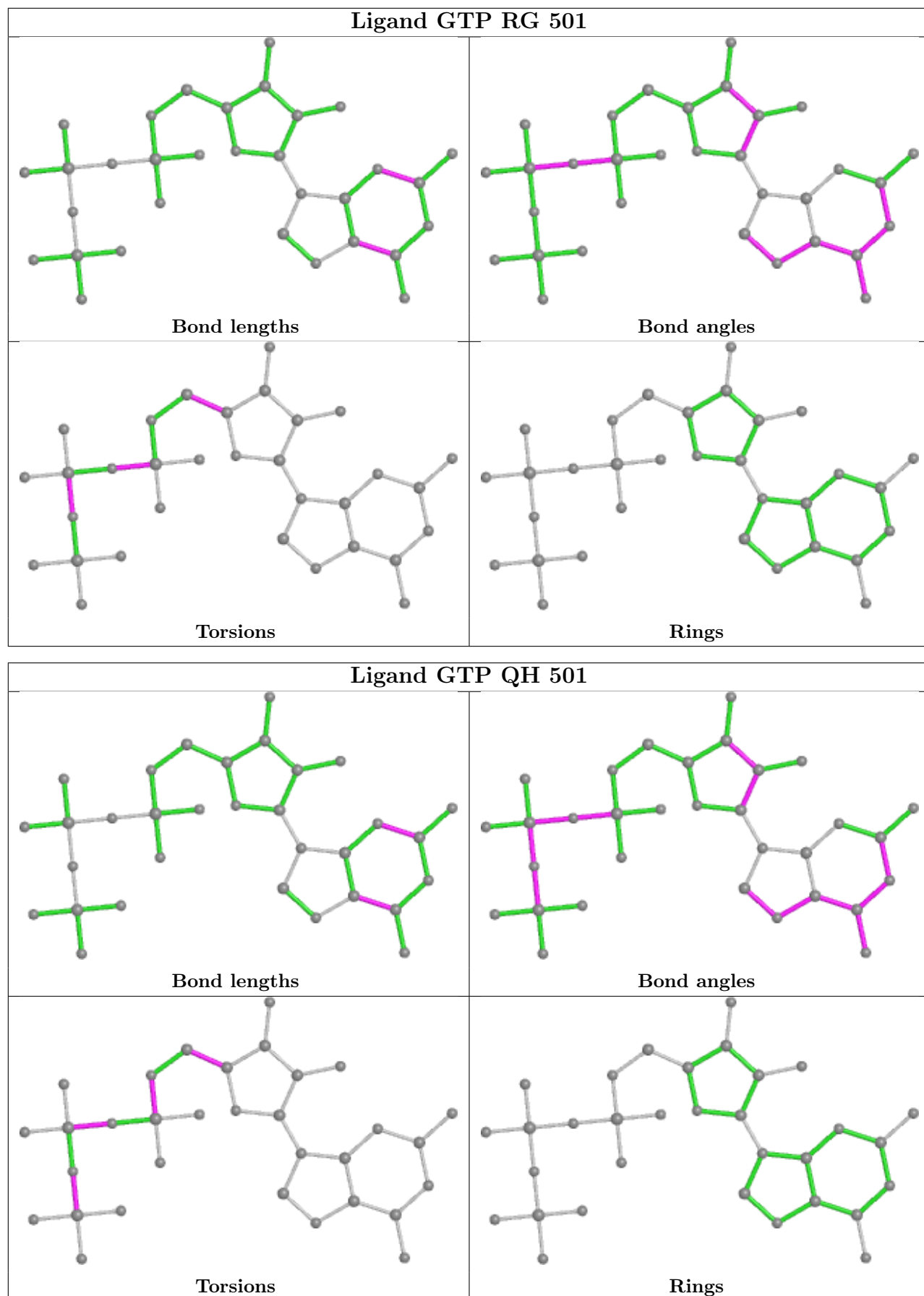


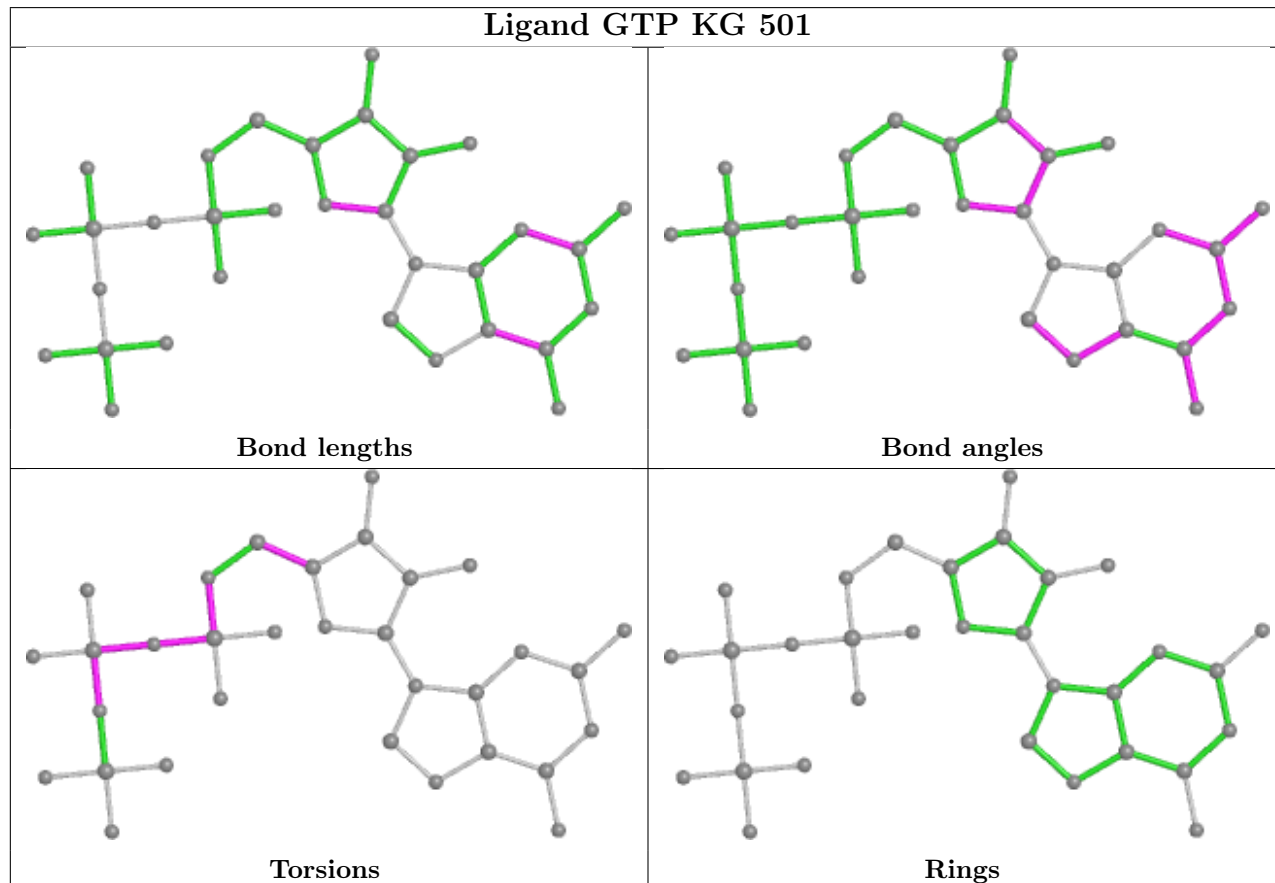
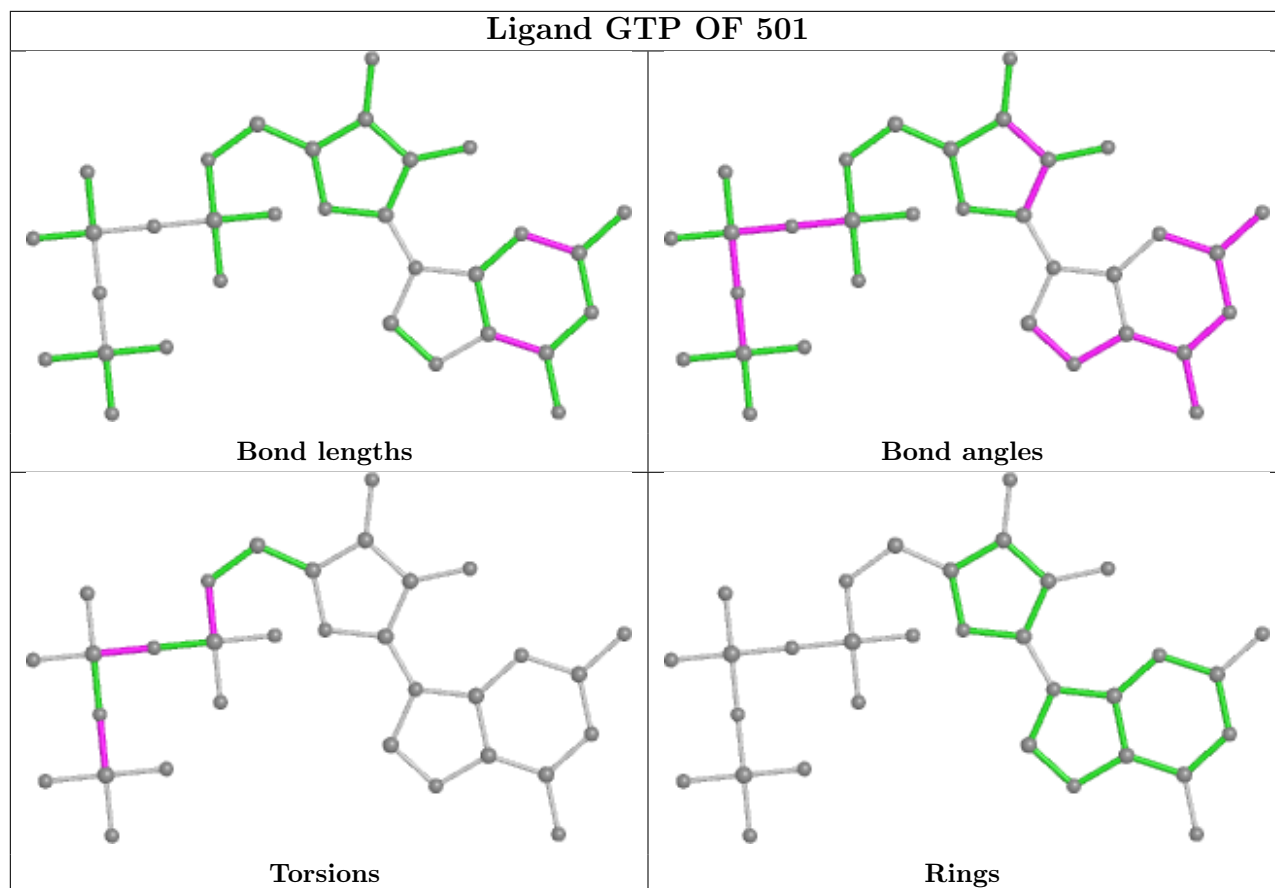


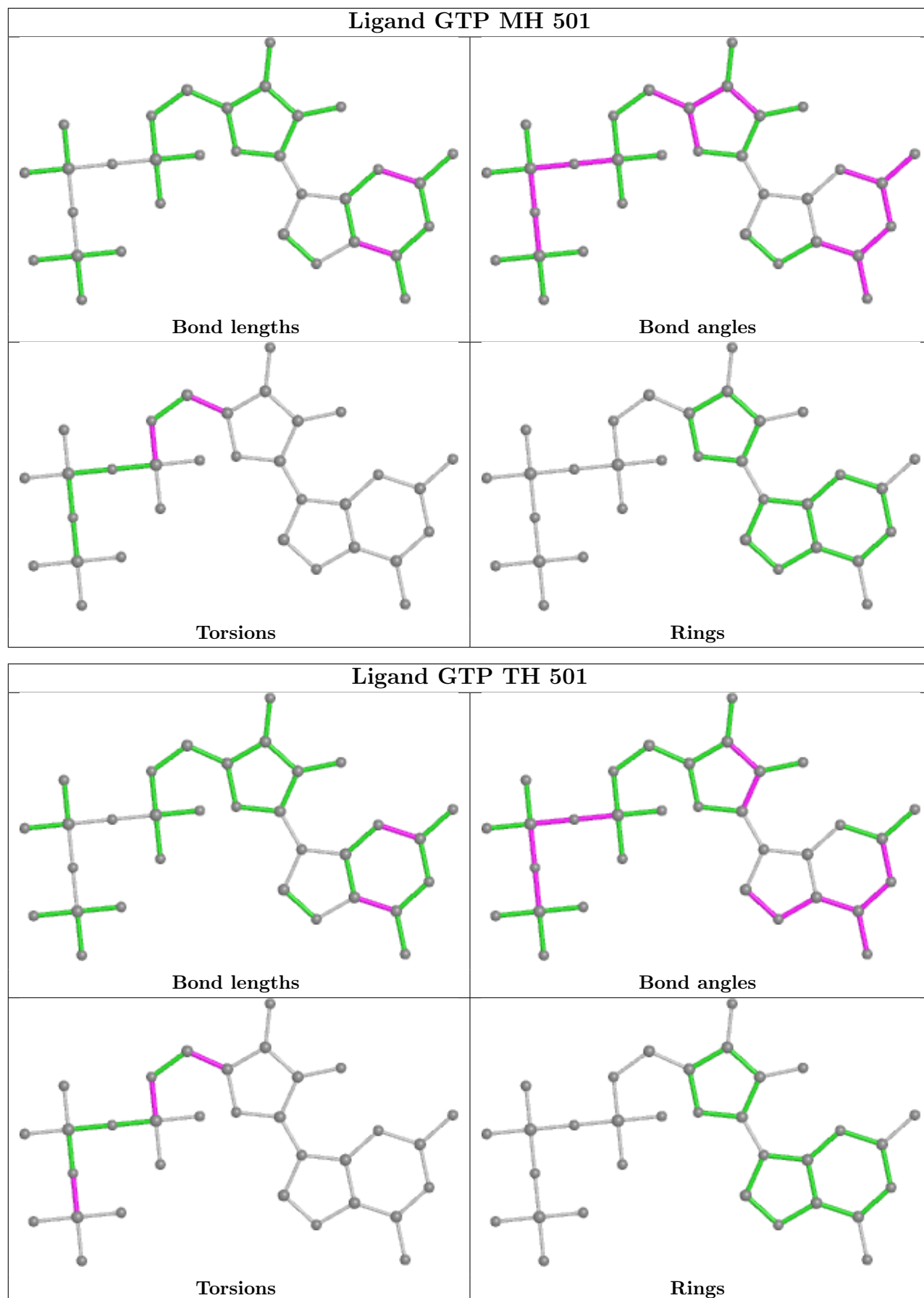


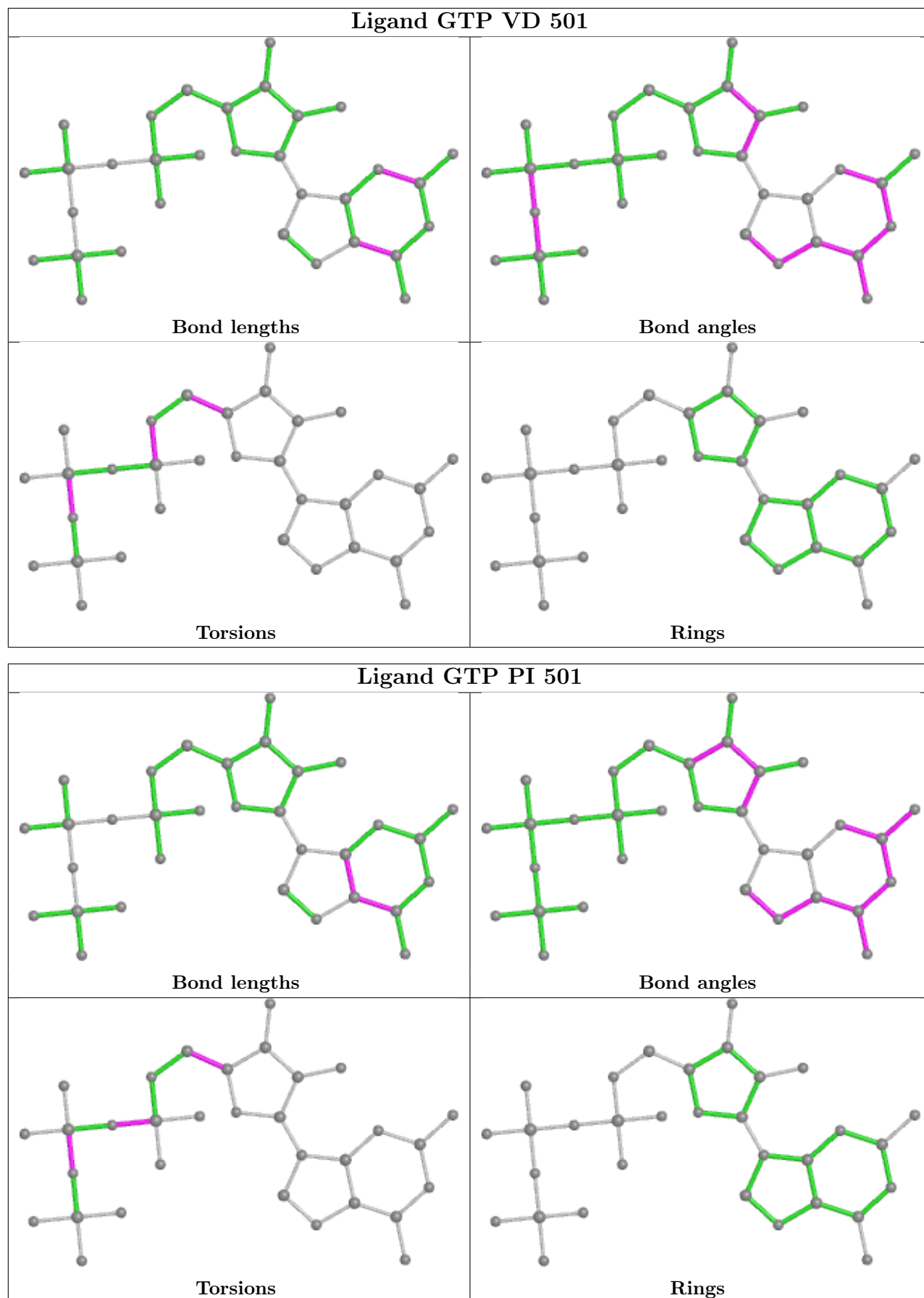




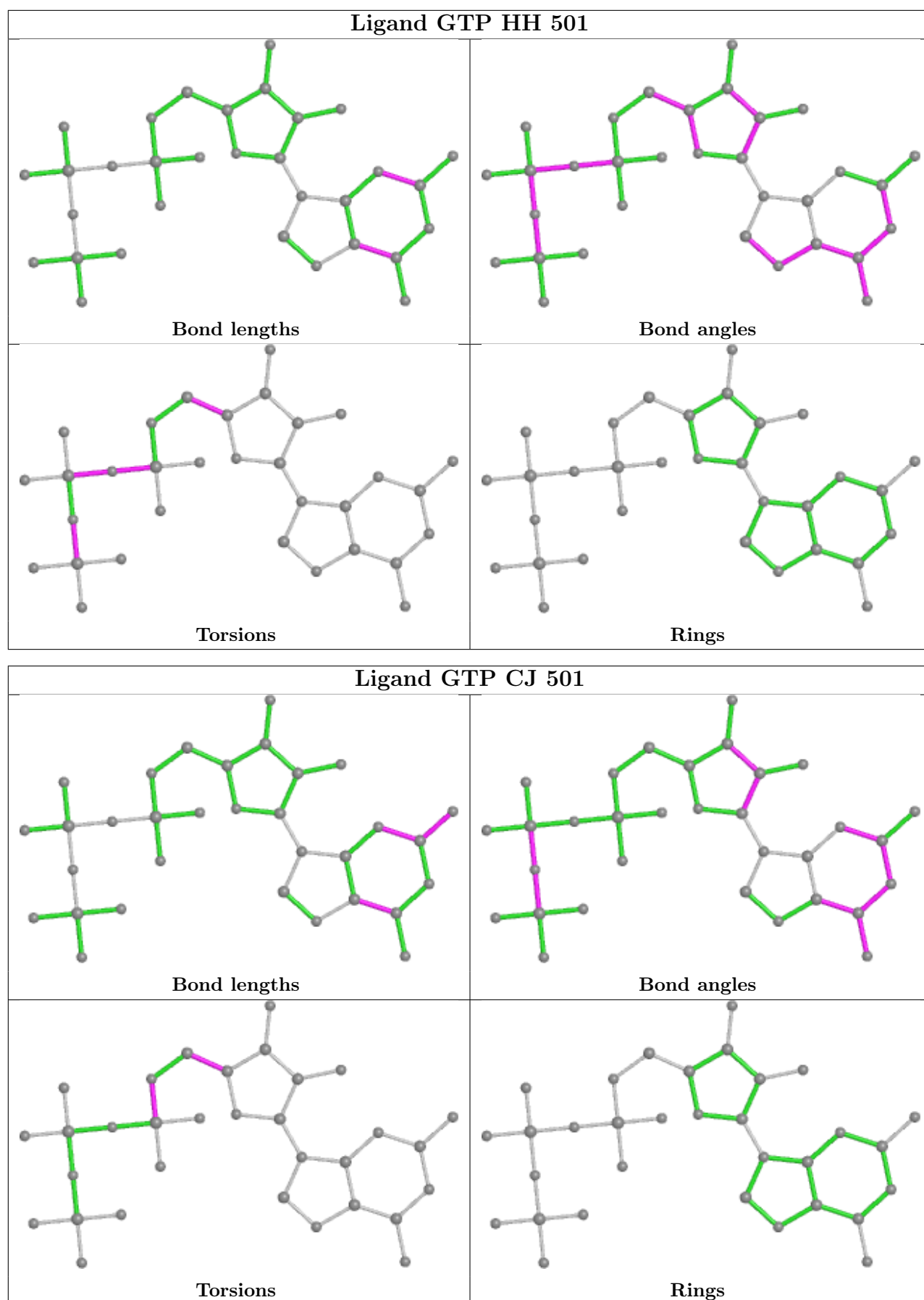


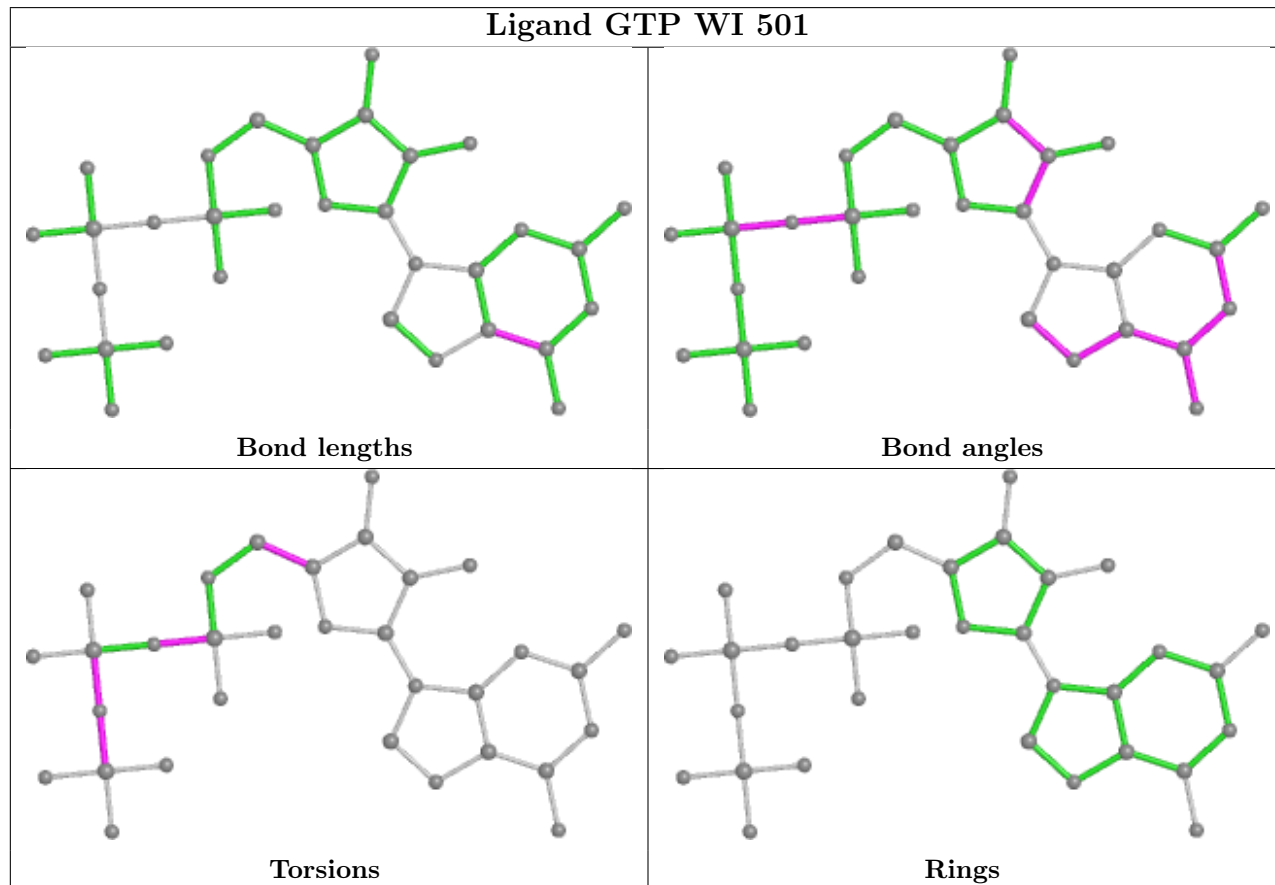
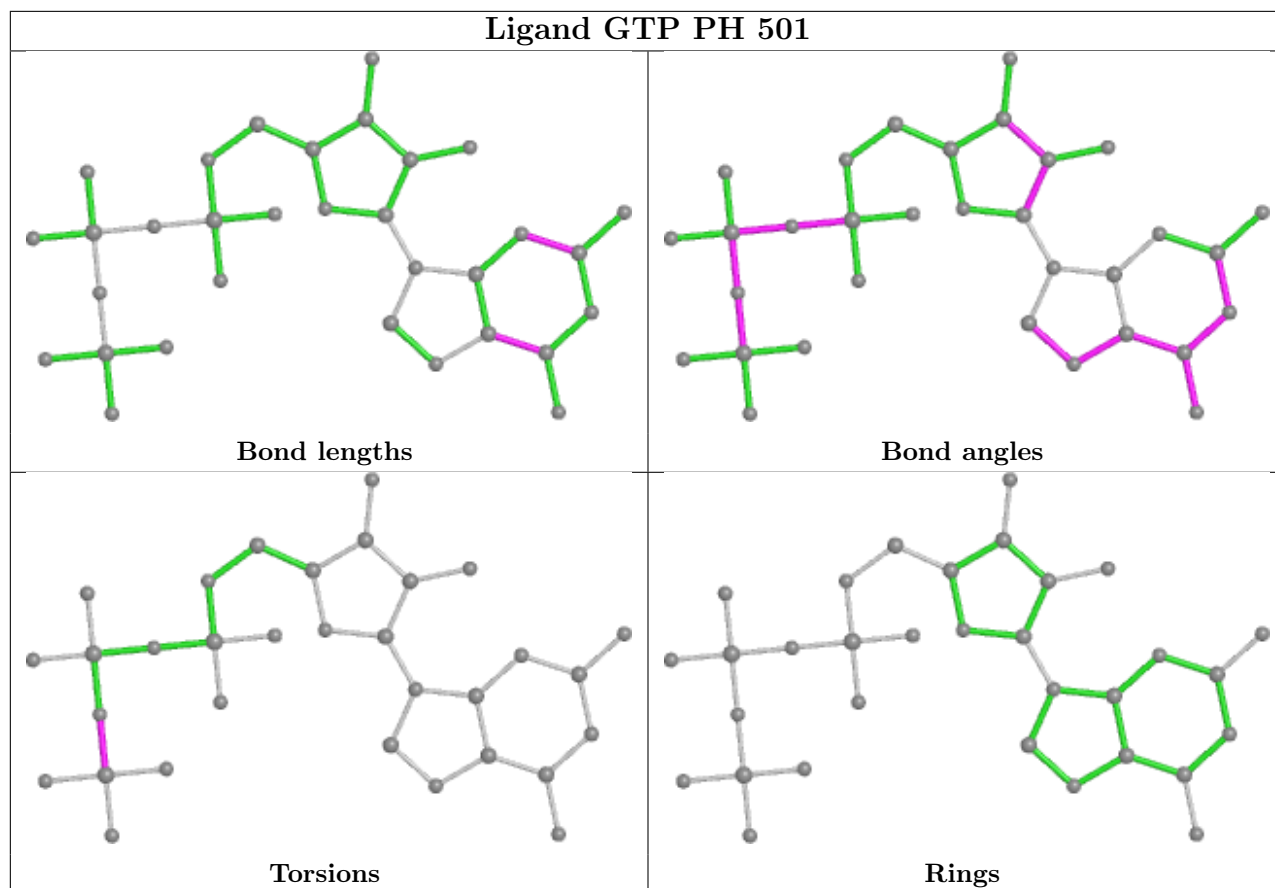


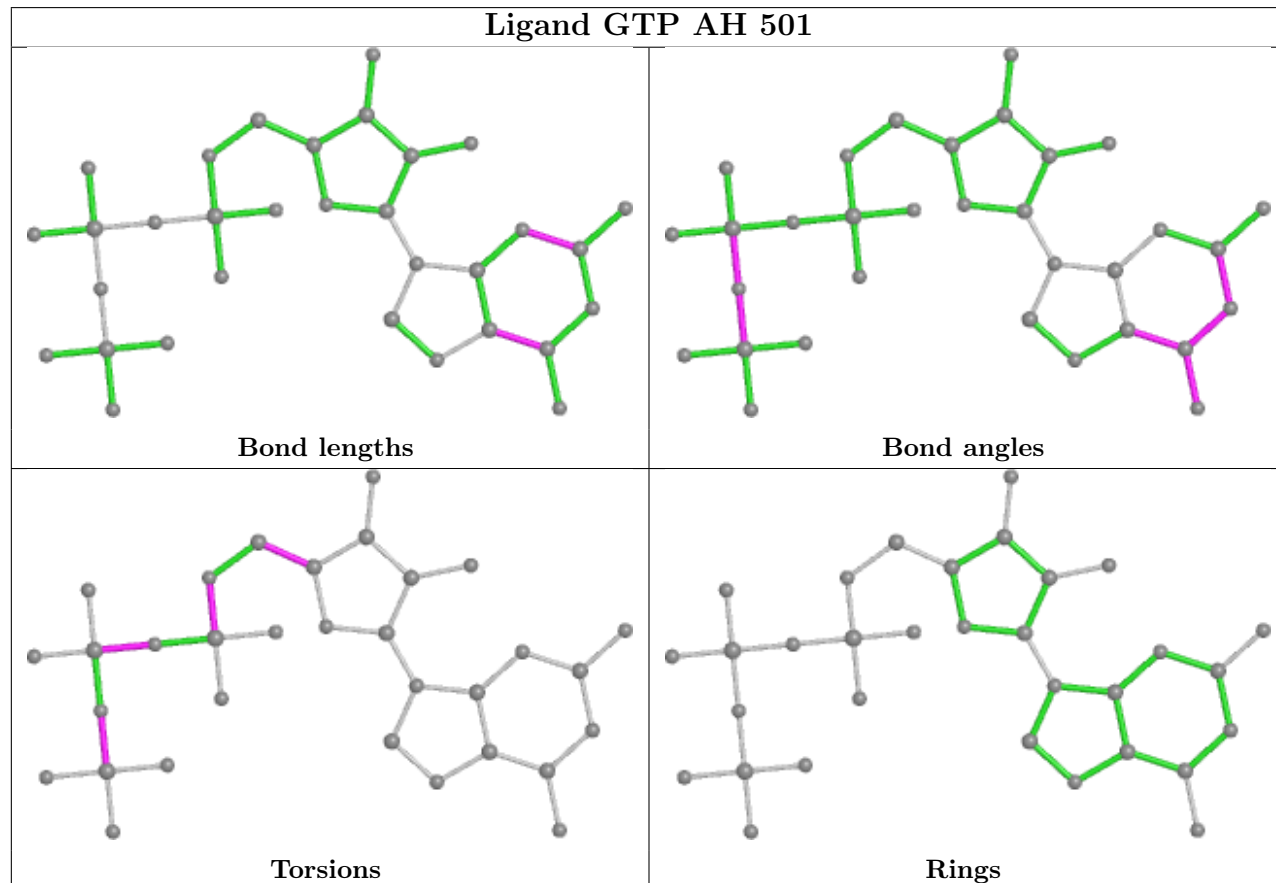
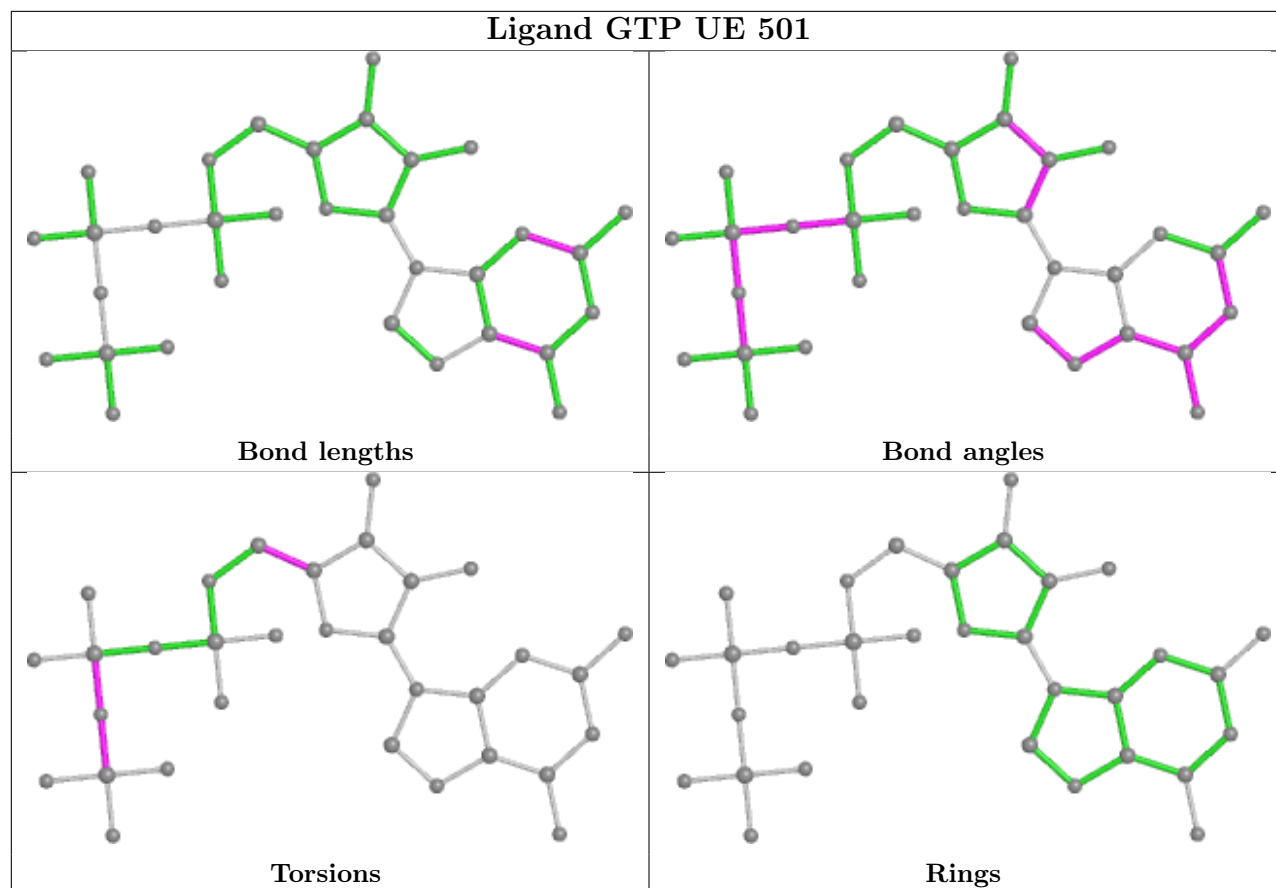


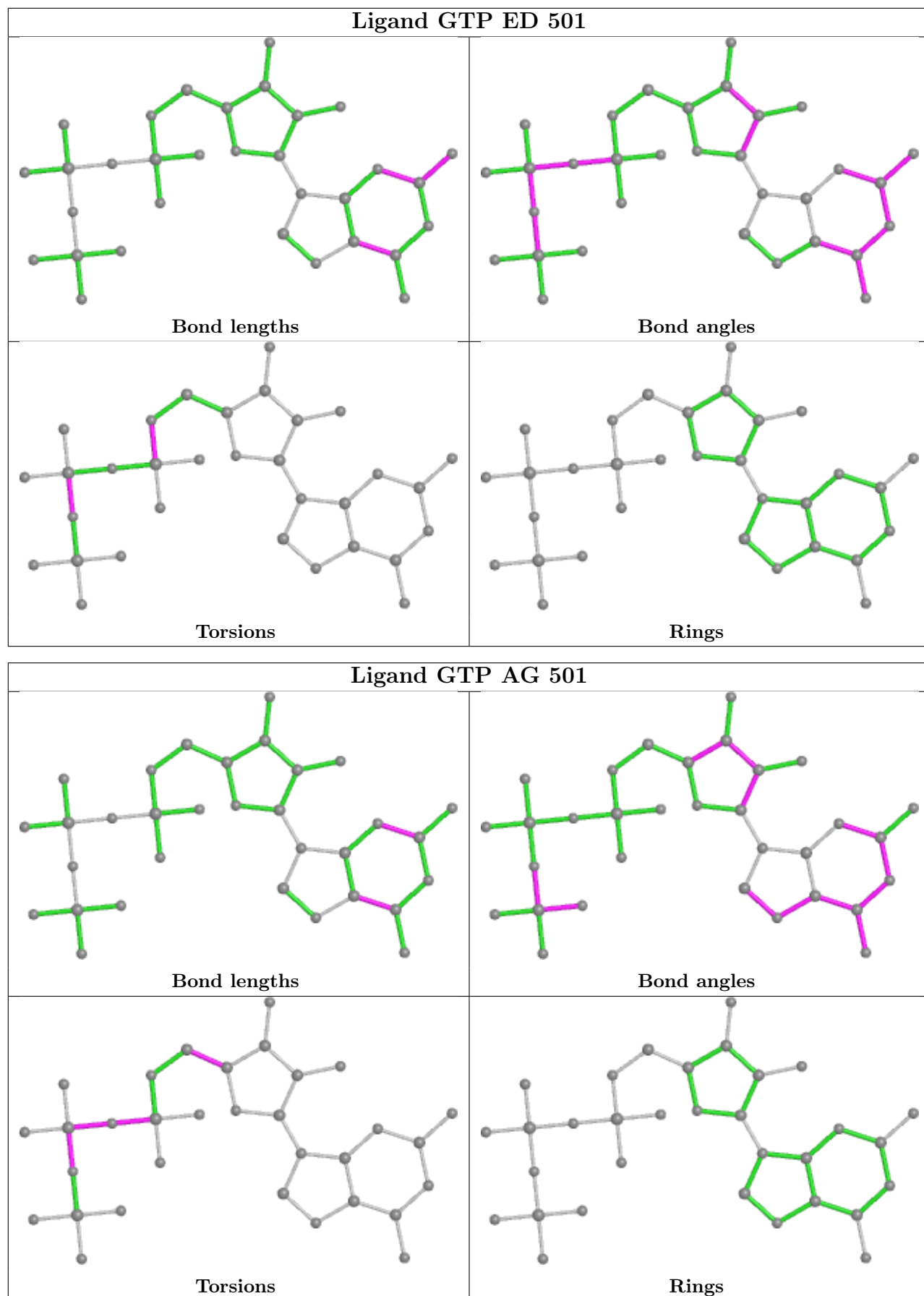


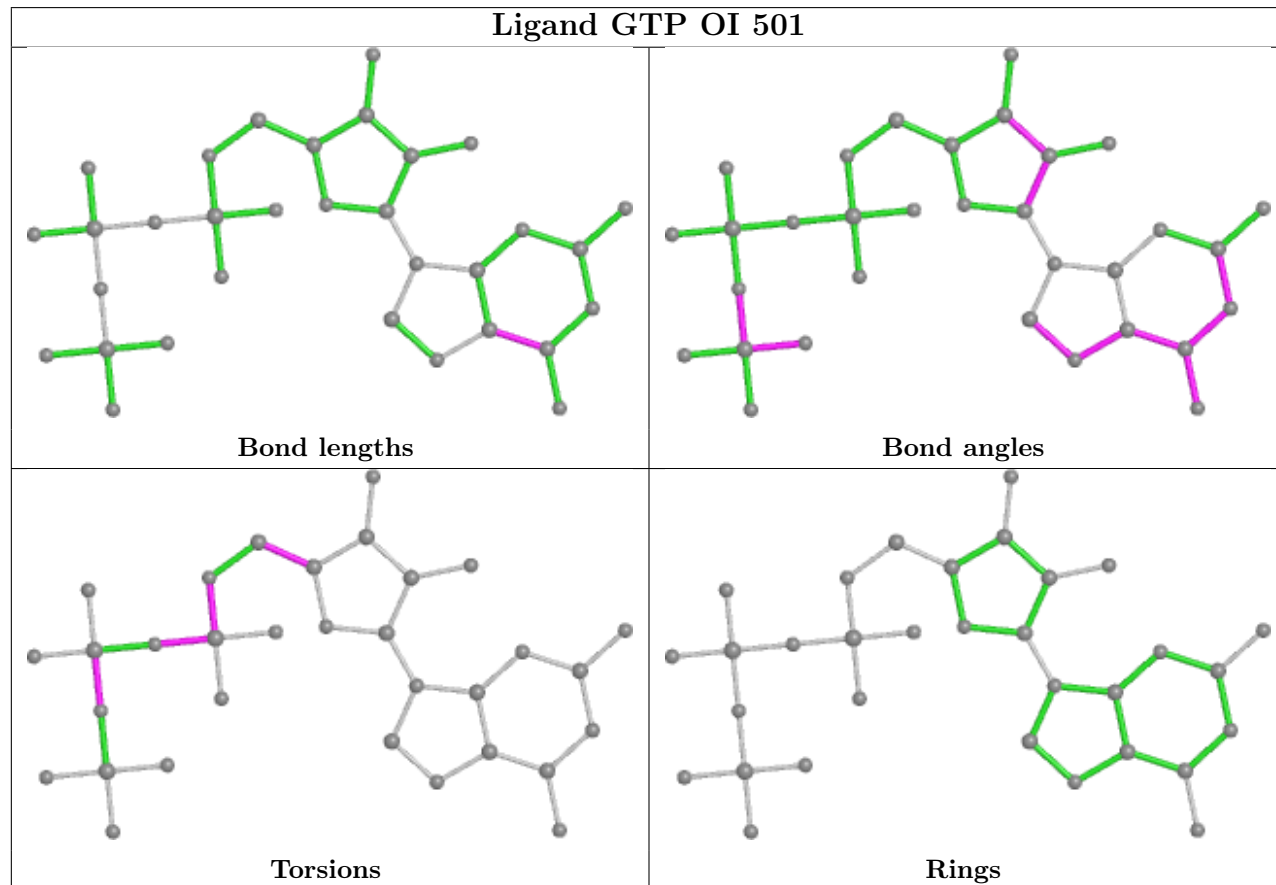
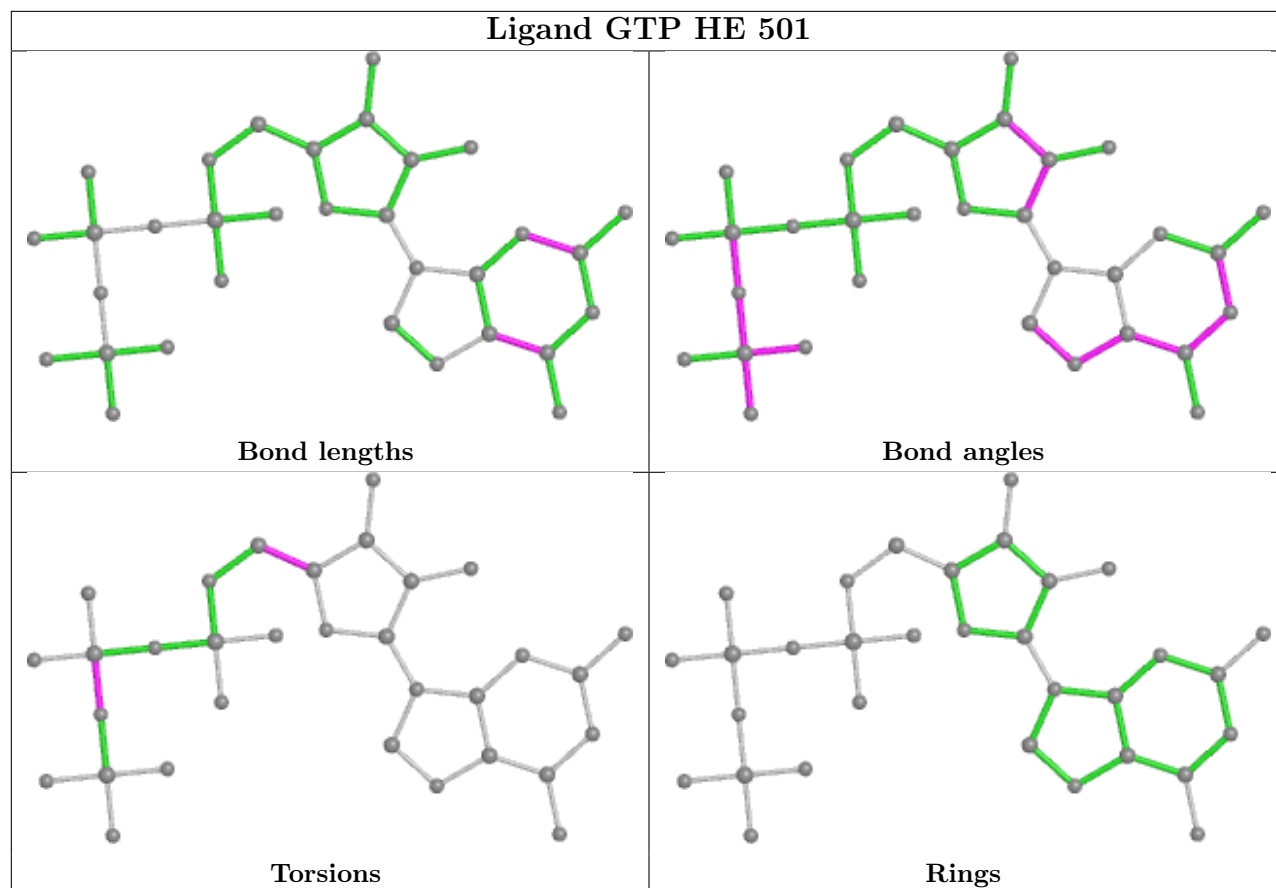


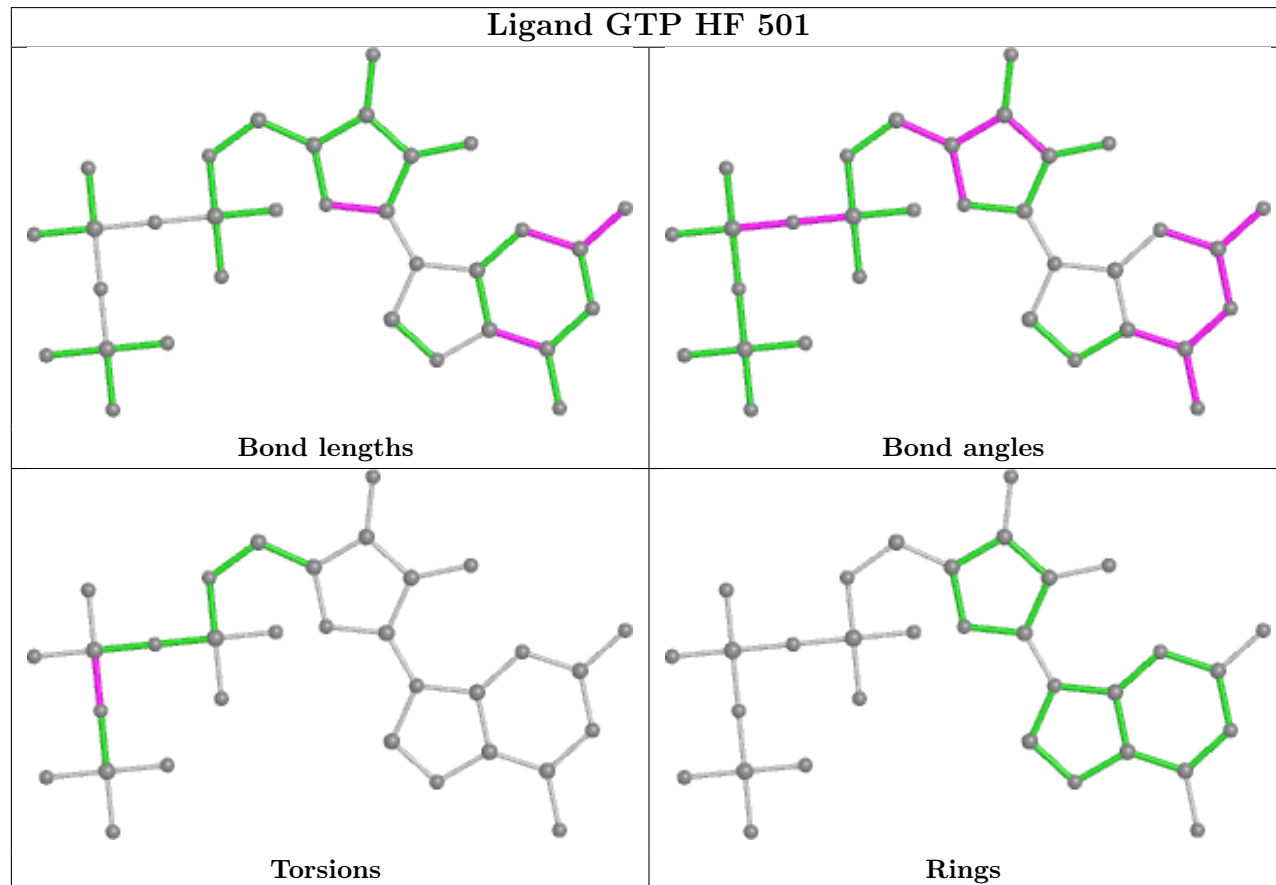
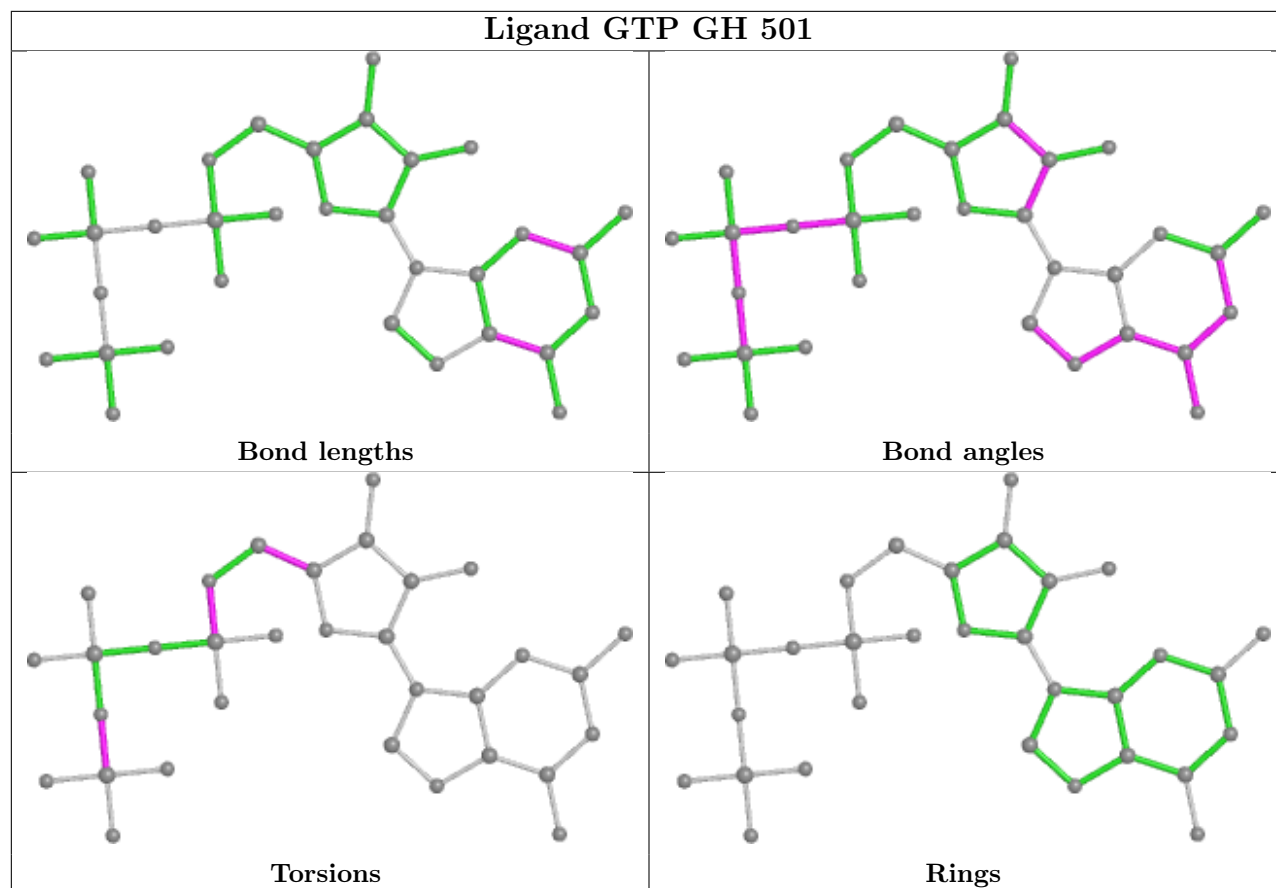


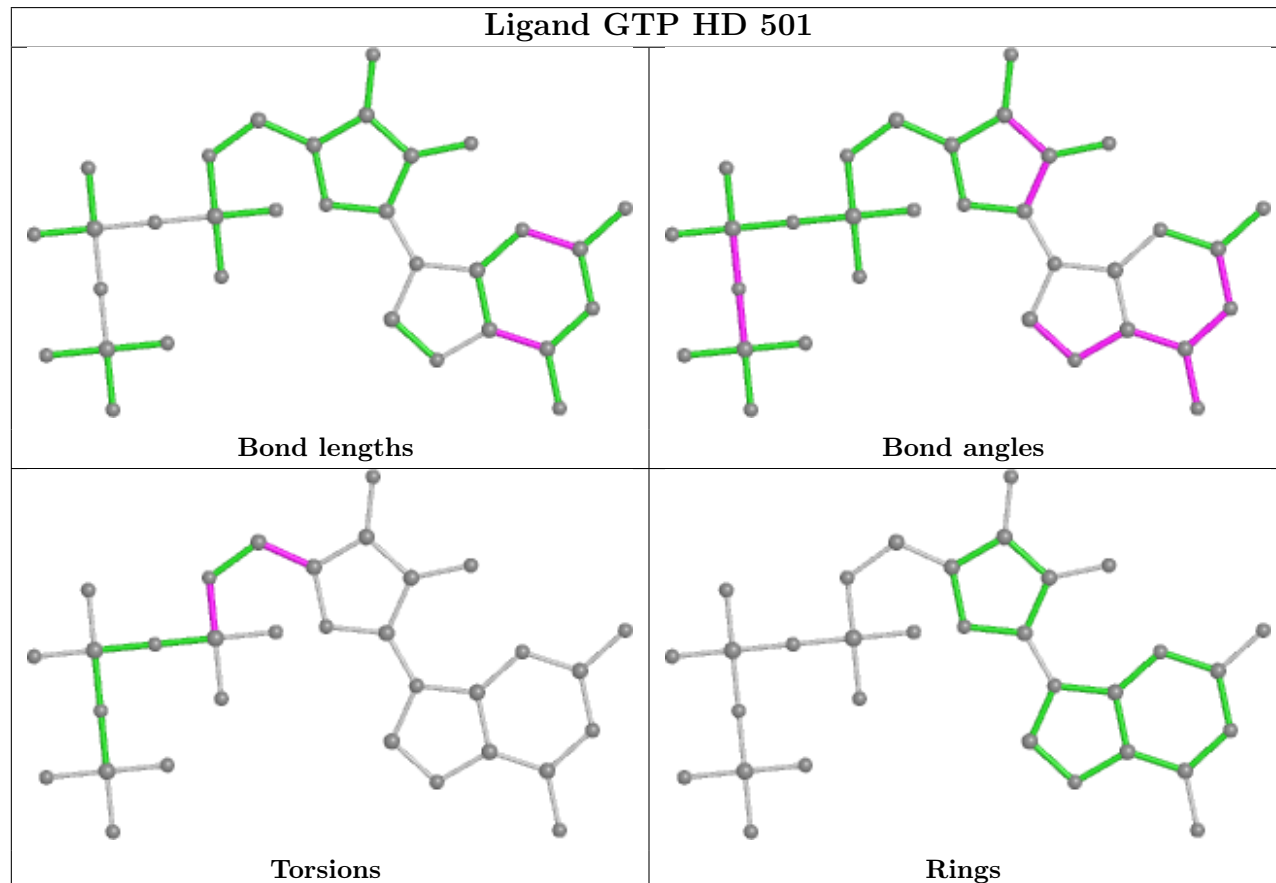
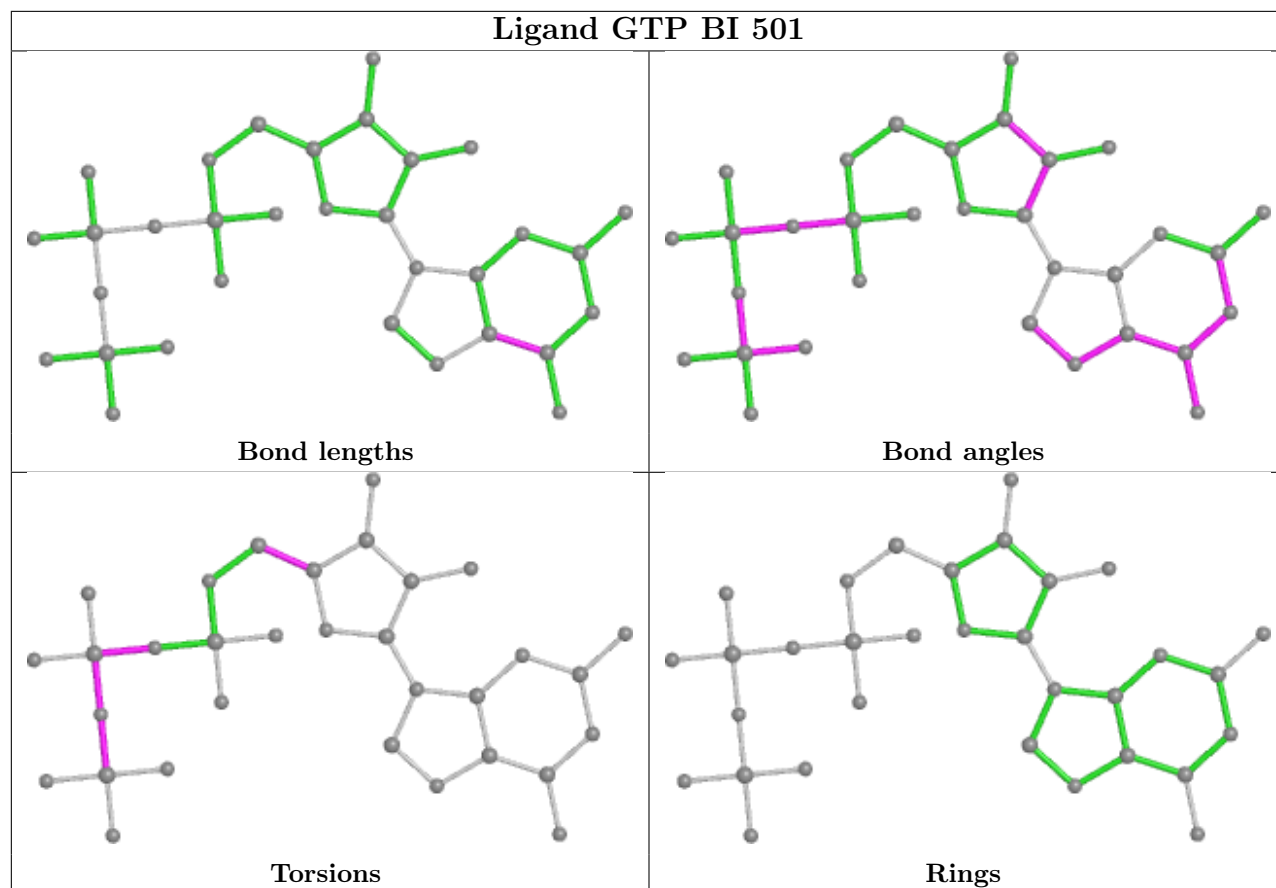




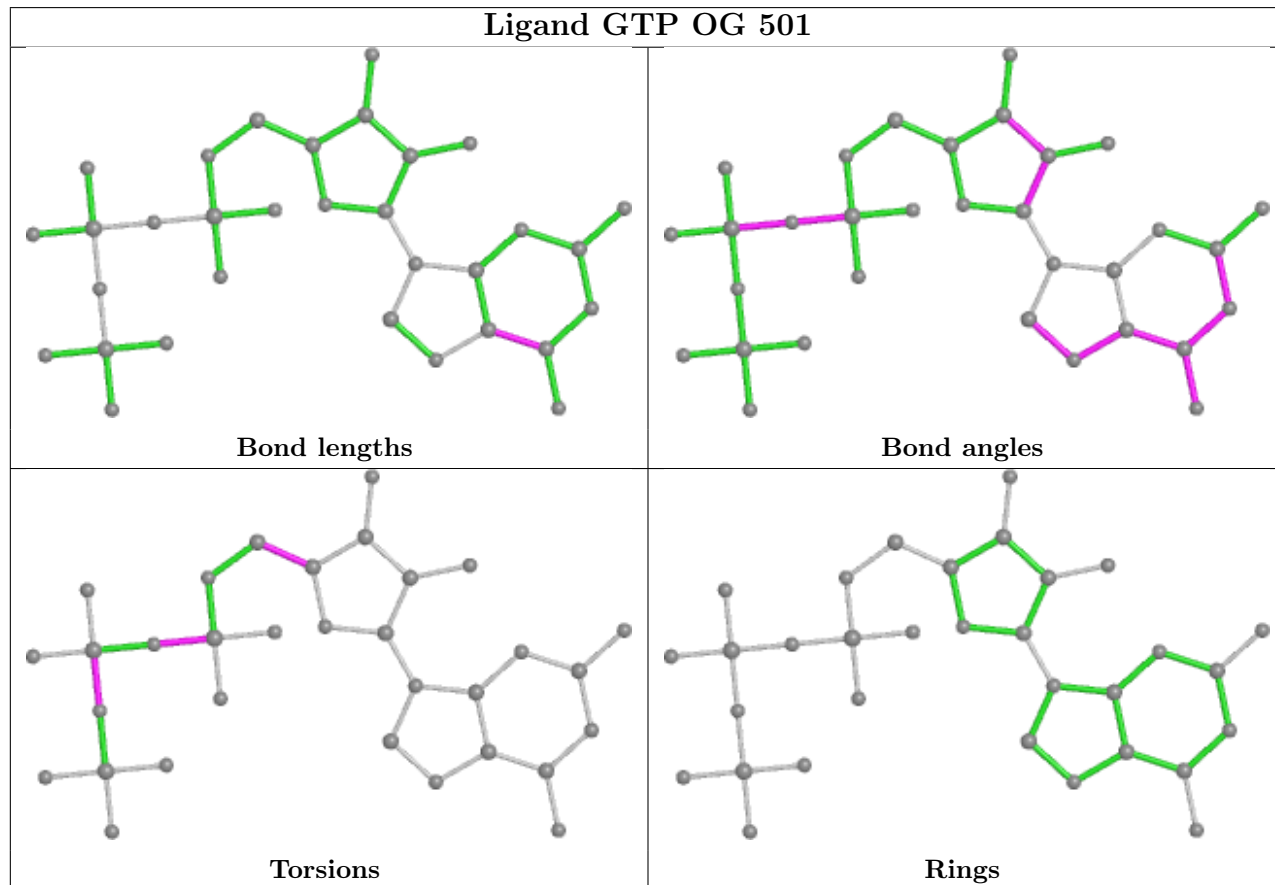
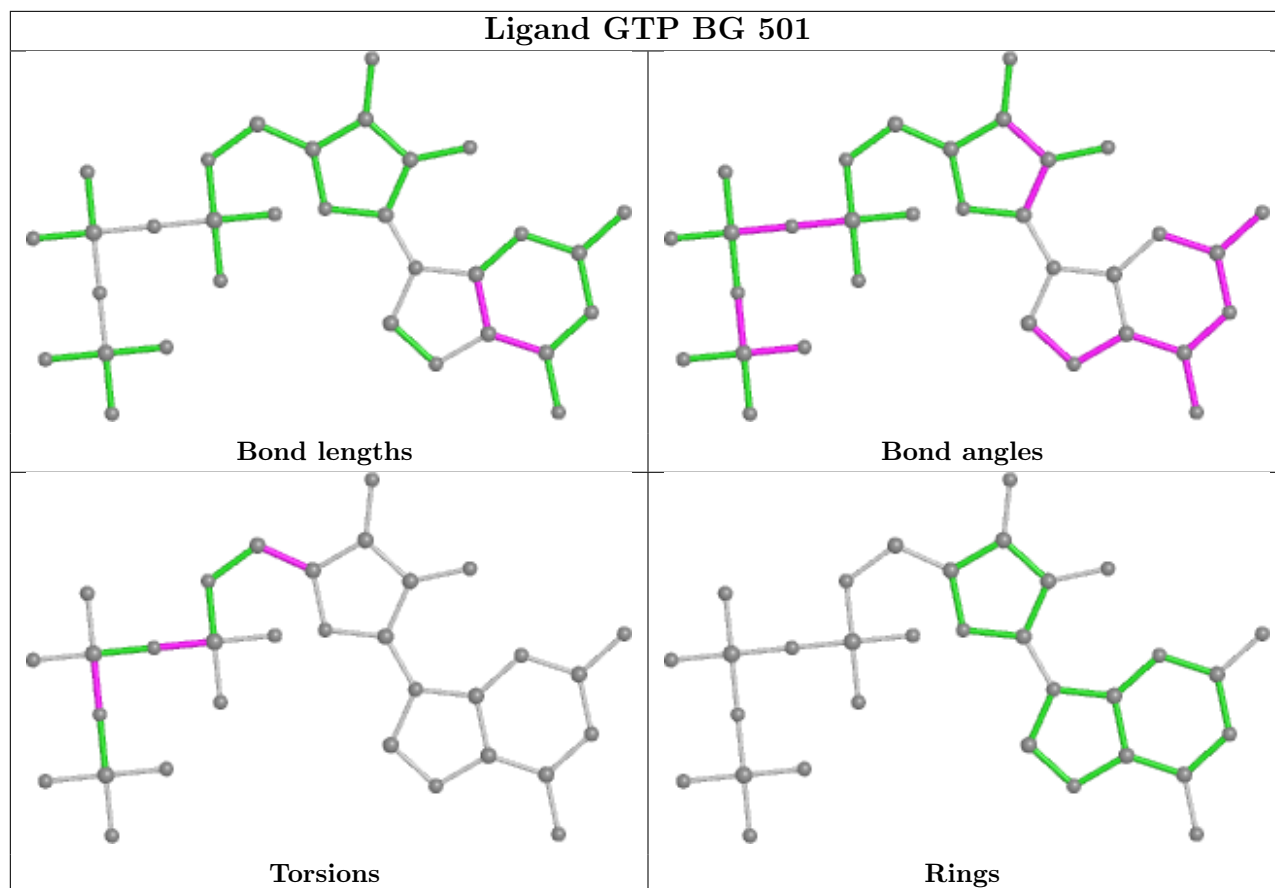


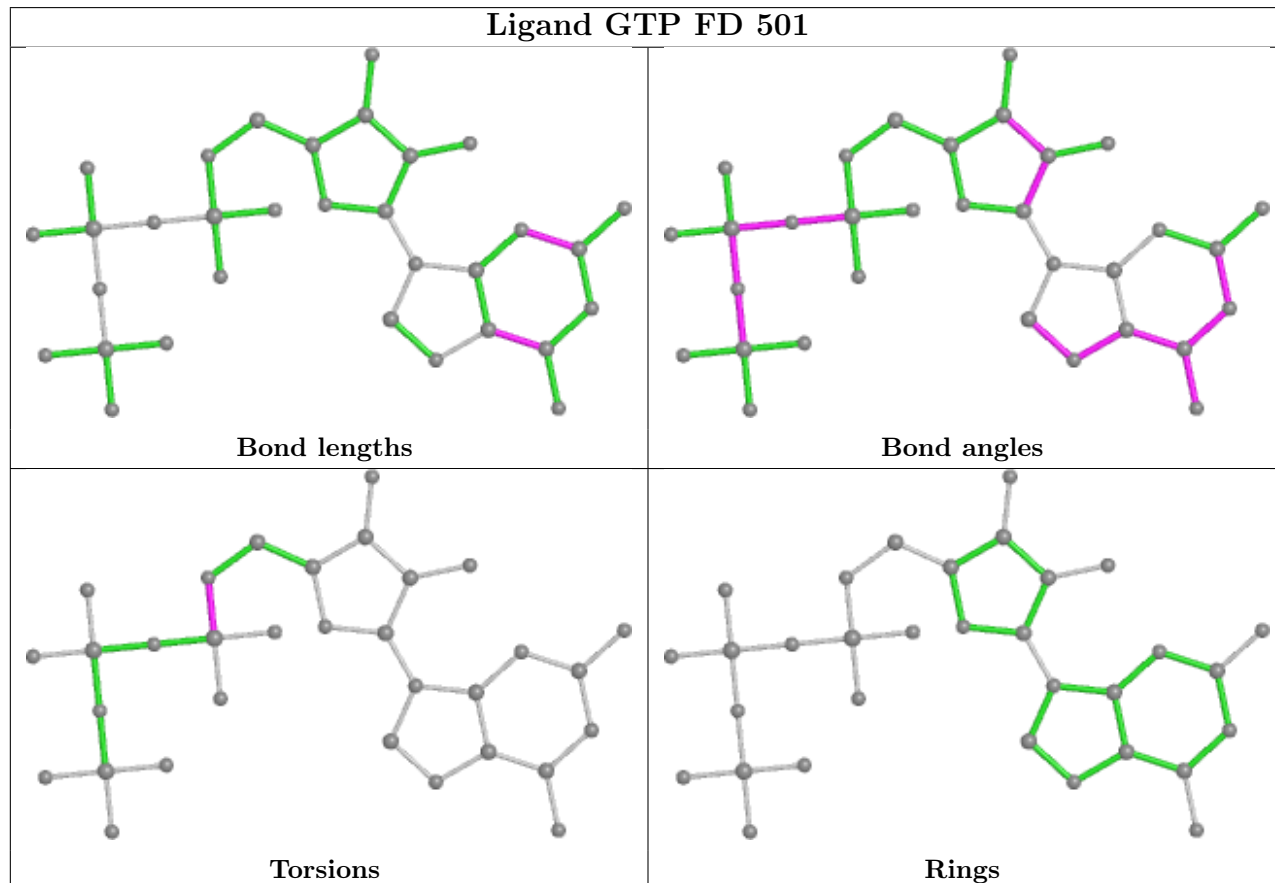
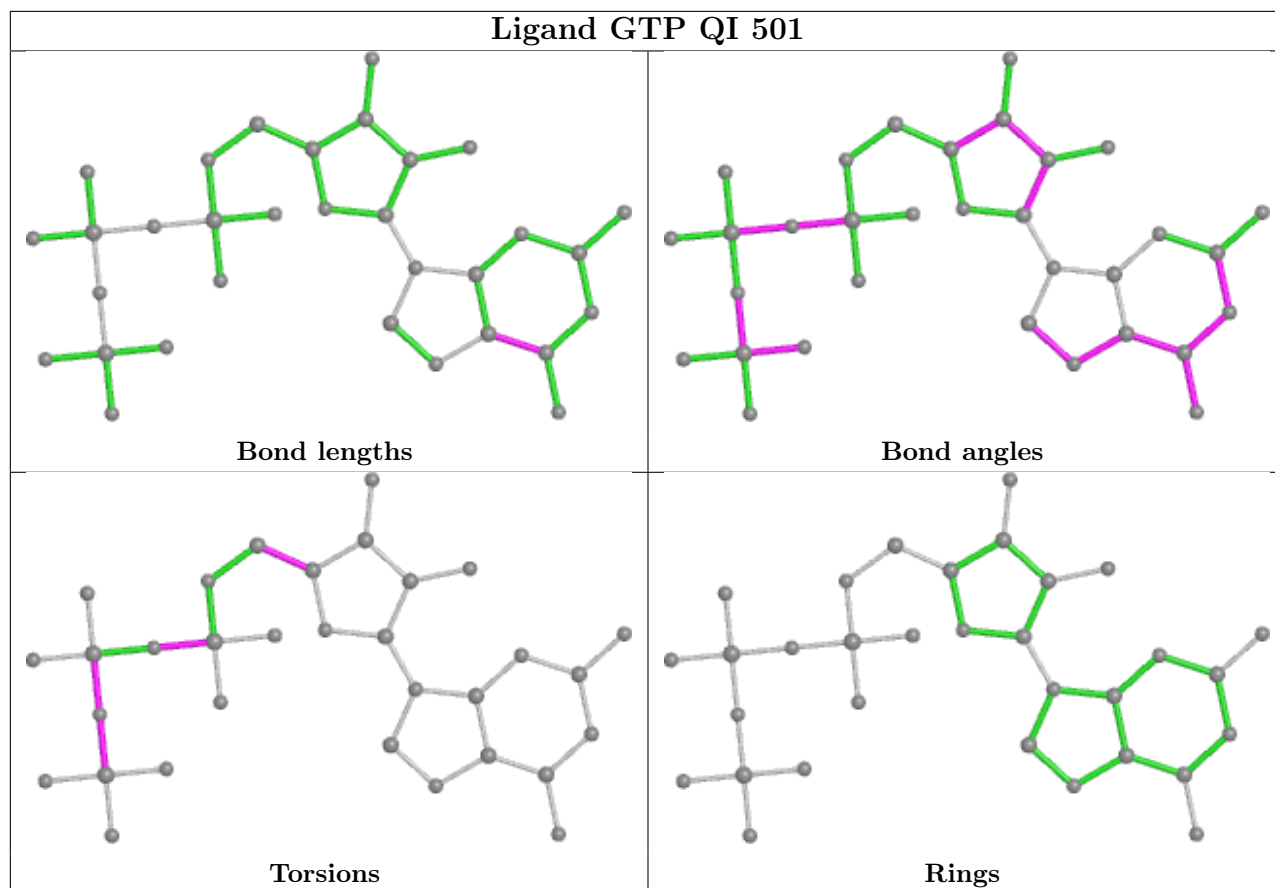


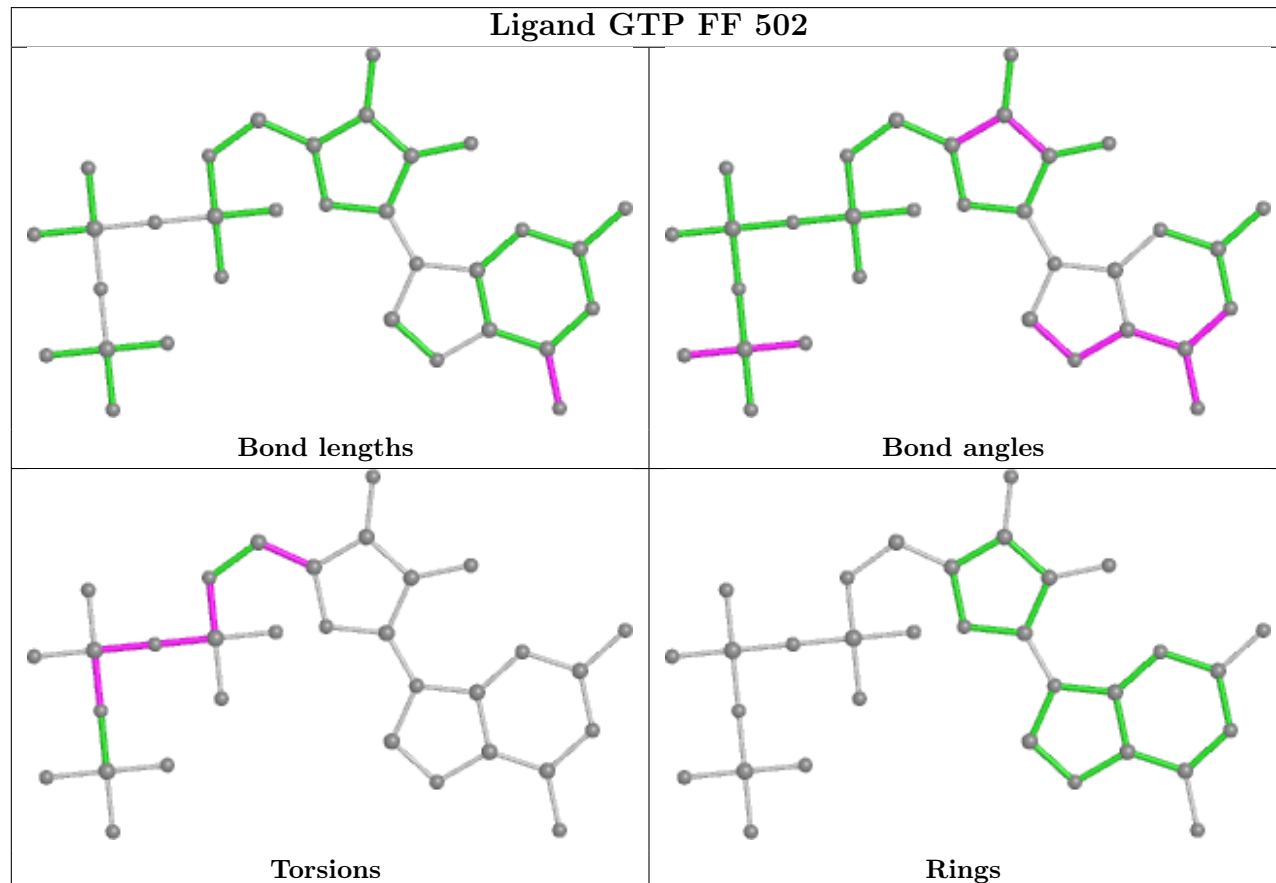
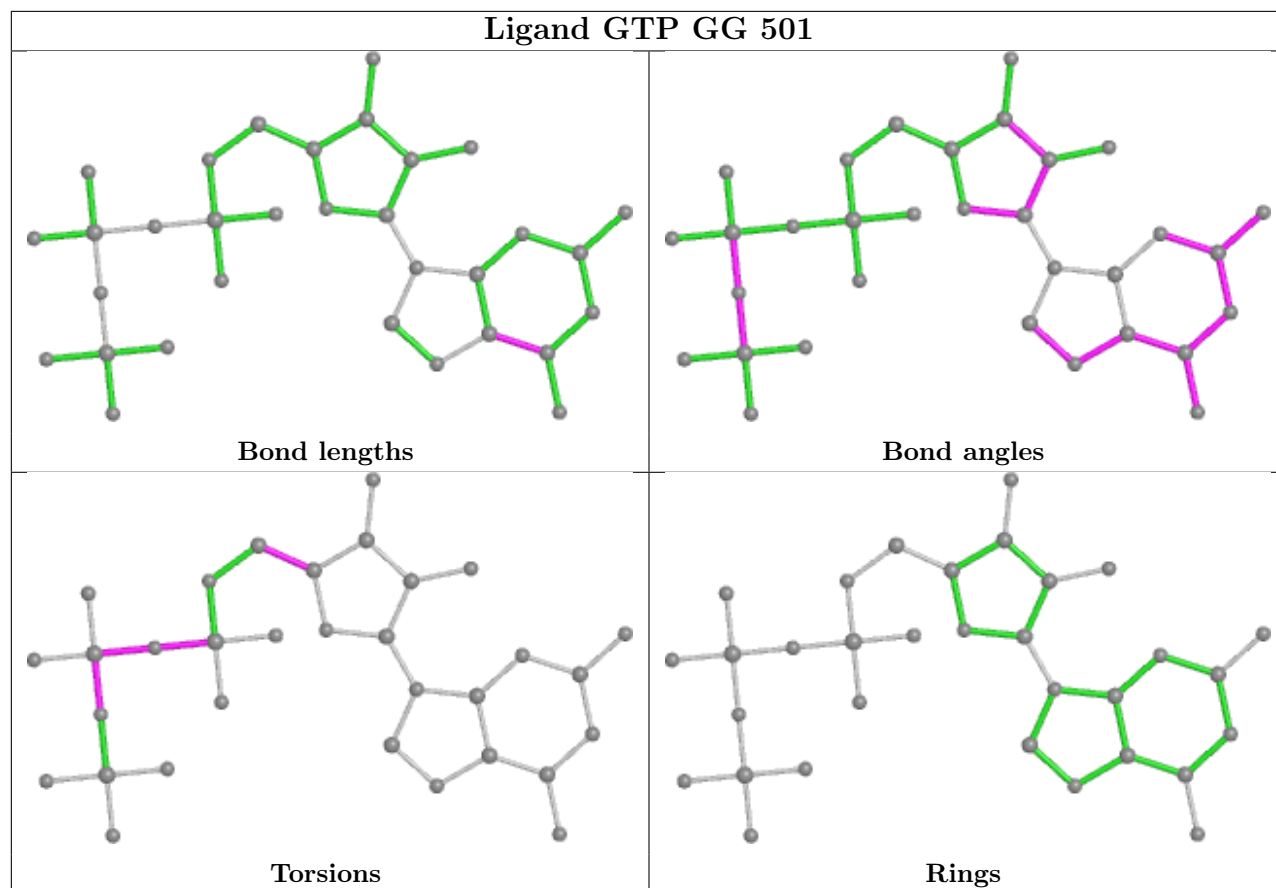


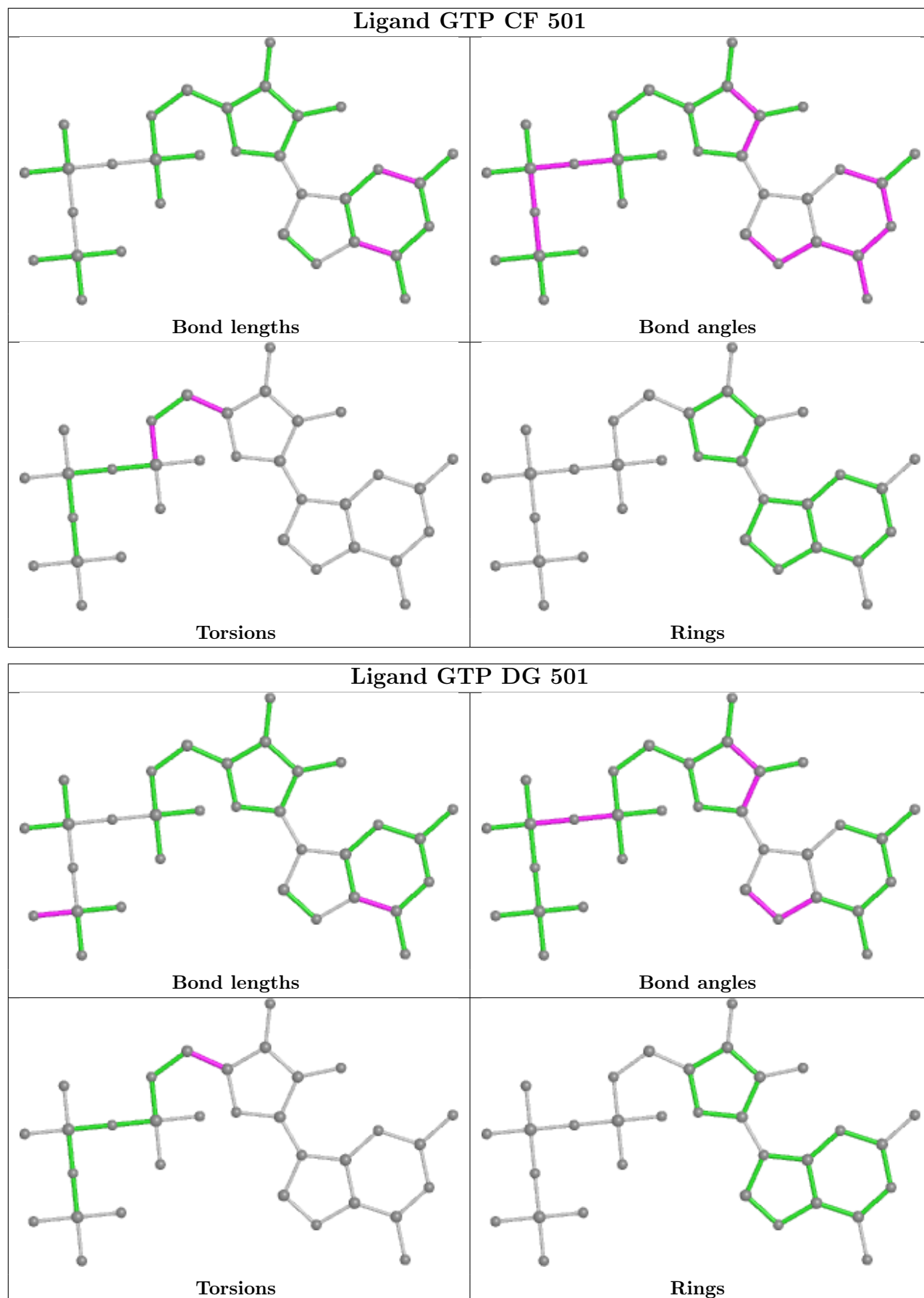


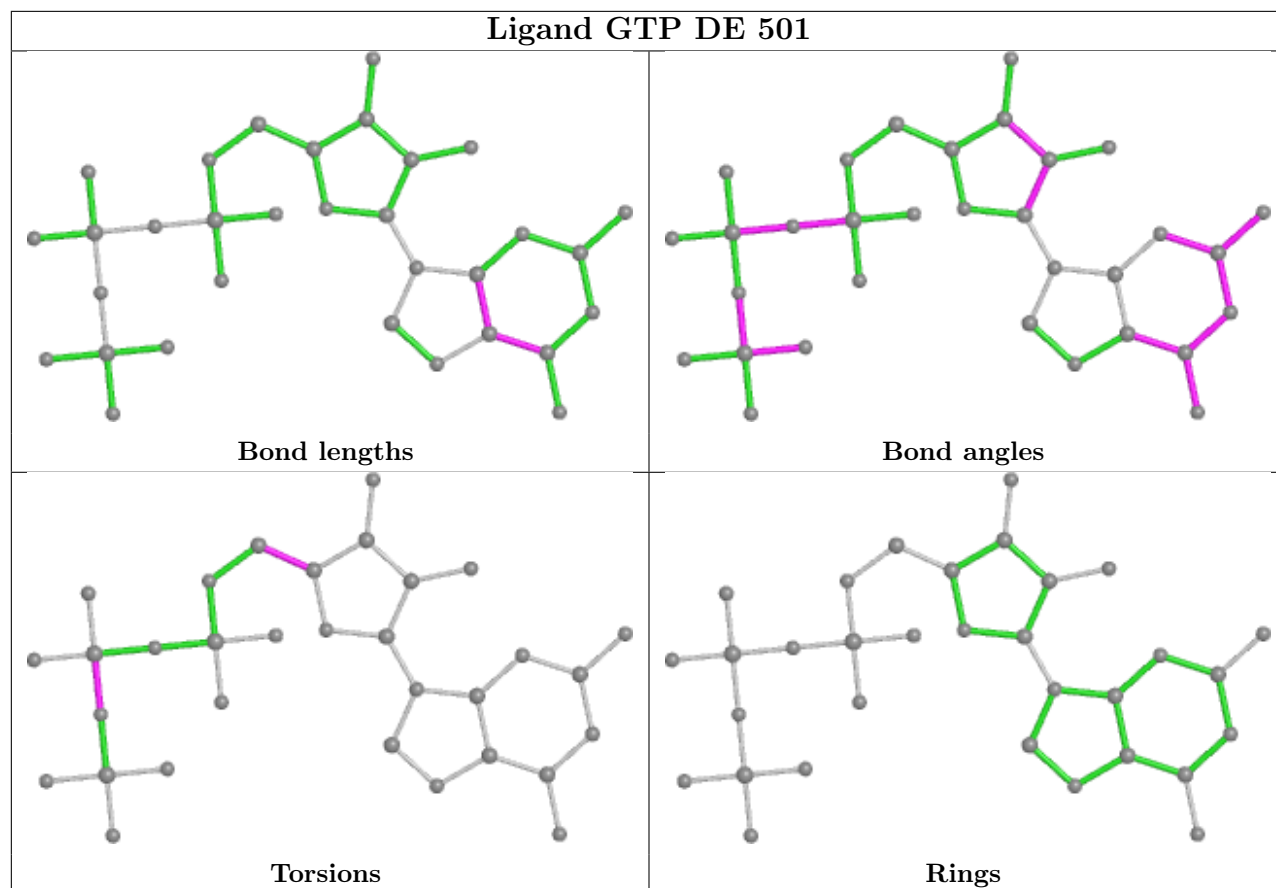












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

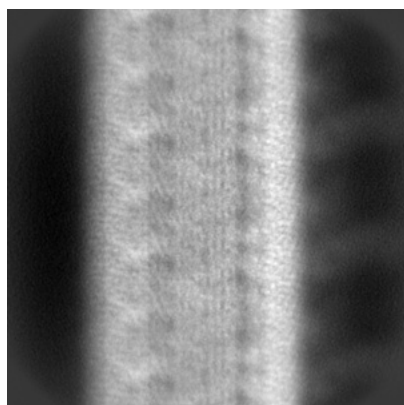
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-35229. These allow visual inspection of the internal detail of the map and identification of artifacts.

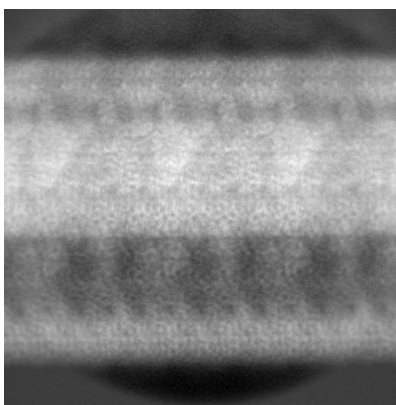
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

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

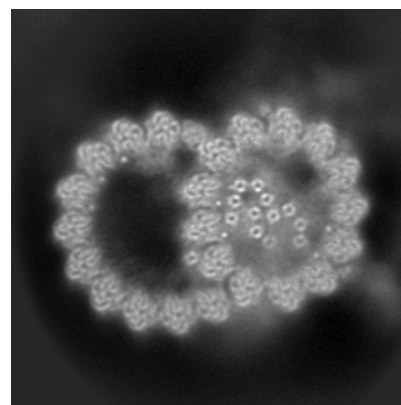
#### 6.1.1 Primary map



X



Y

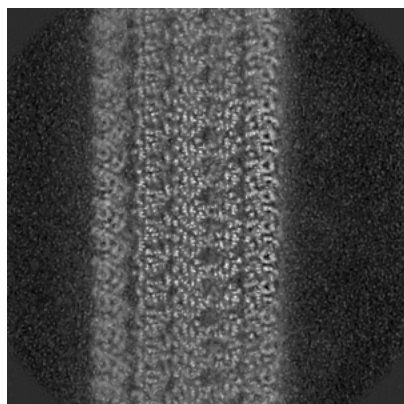


Z

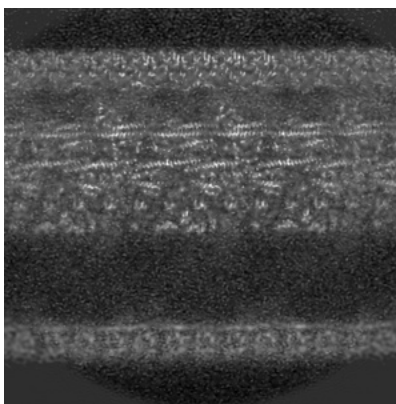
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

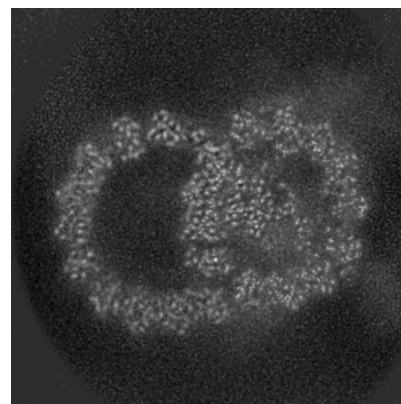
#### 6.2.1 Primary map



X Index: 160



Y Index: 160



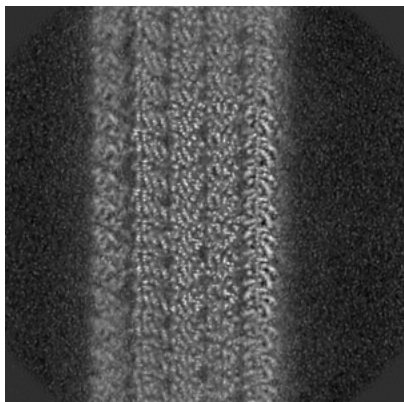
Z Index: 160



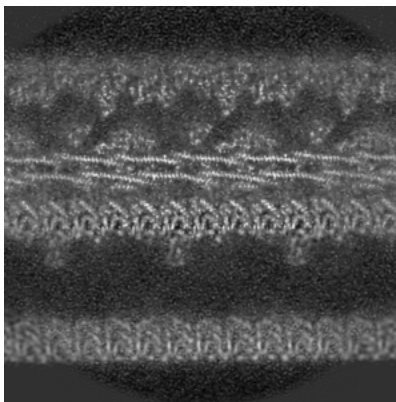
The images above show central slices of the map in three orthogonal directions.

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

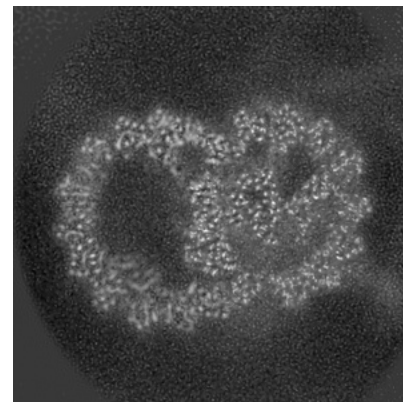
### 6.3.1 Primary map



X Index: 158



Y Index: 175

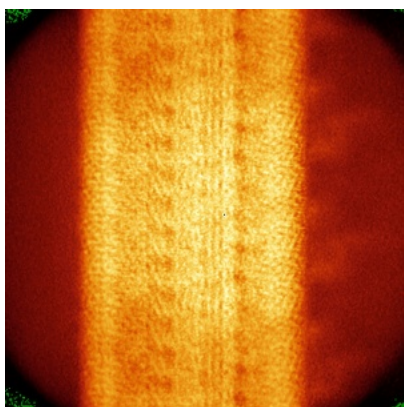


Z Index: 178

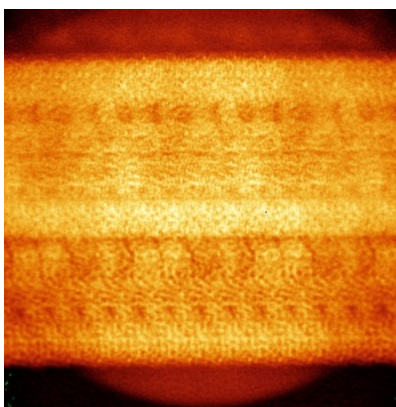
The images above show the largest variance slices of the map in three orthogonal directions.

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

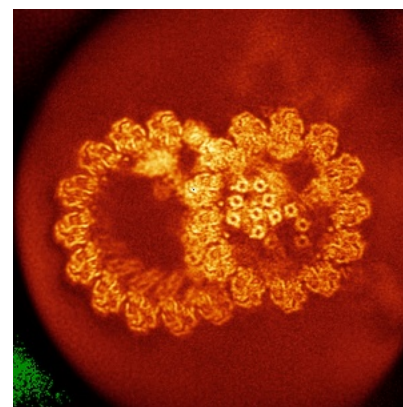
### 6.4.1 Primary map



X



Y



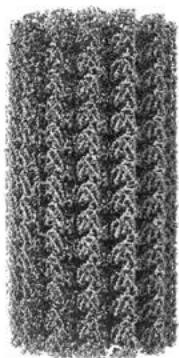
Z

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

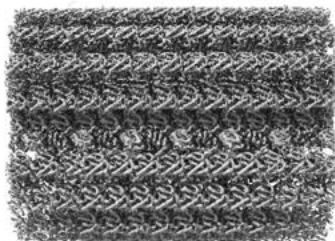


## 6.5 Orthogonal surface views [i](#)

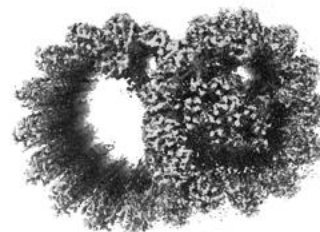
### 6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.004. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

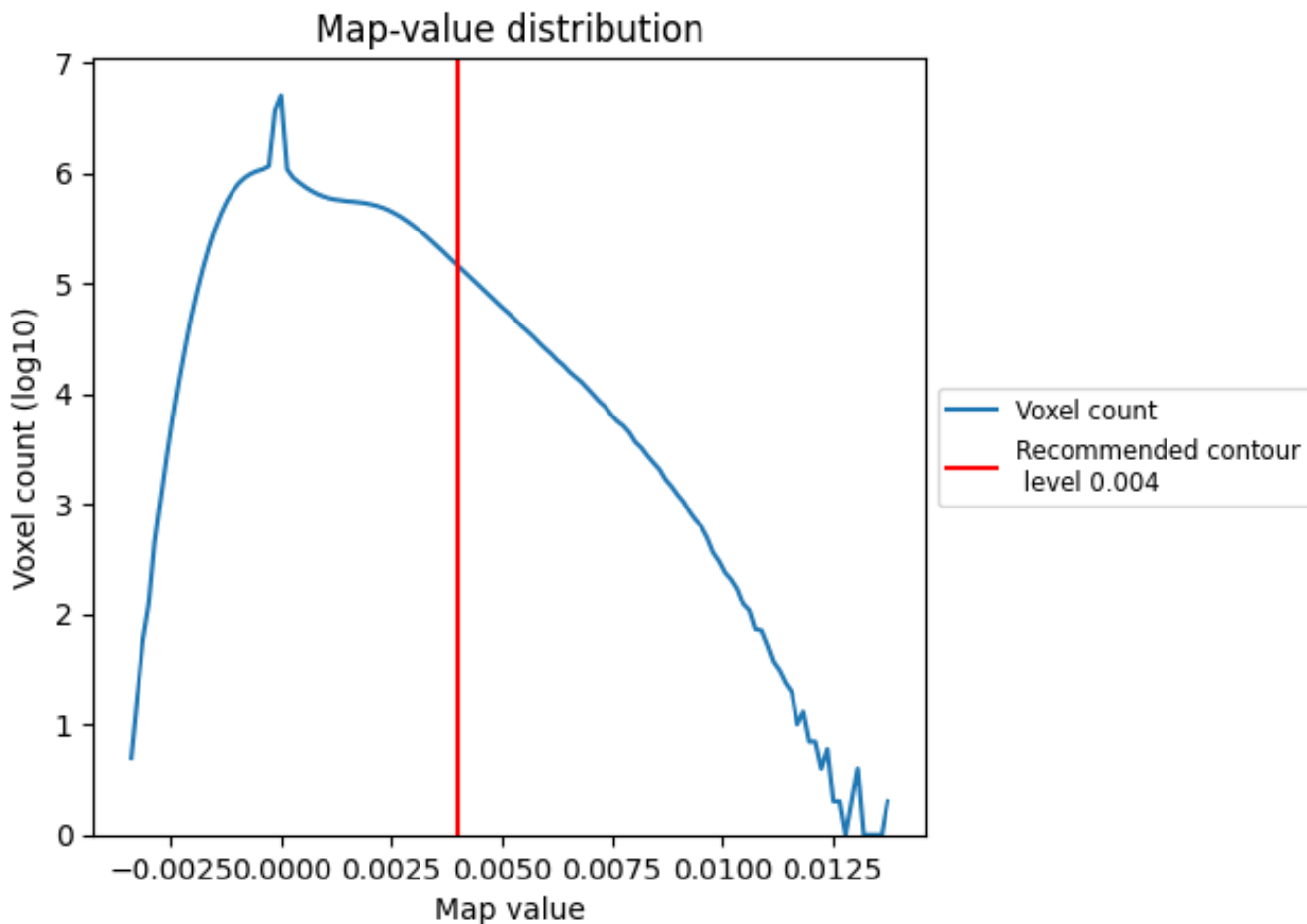
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

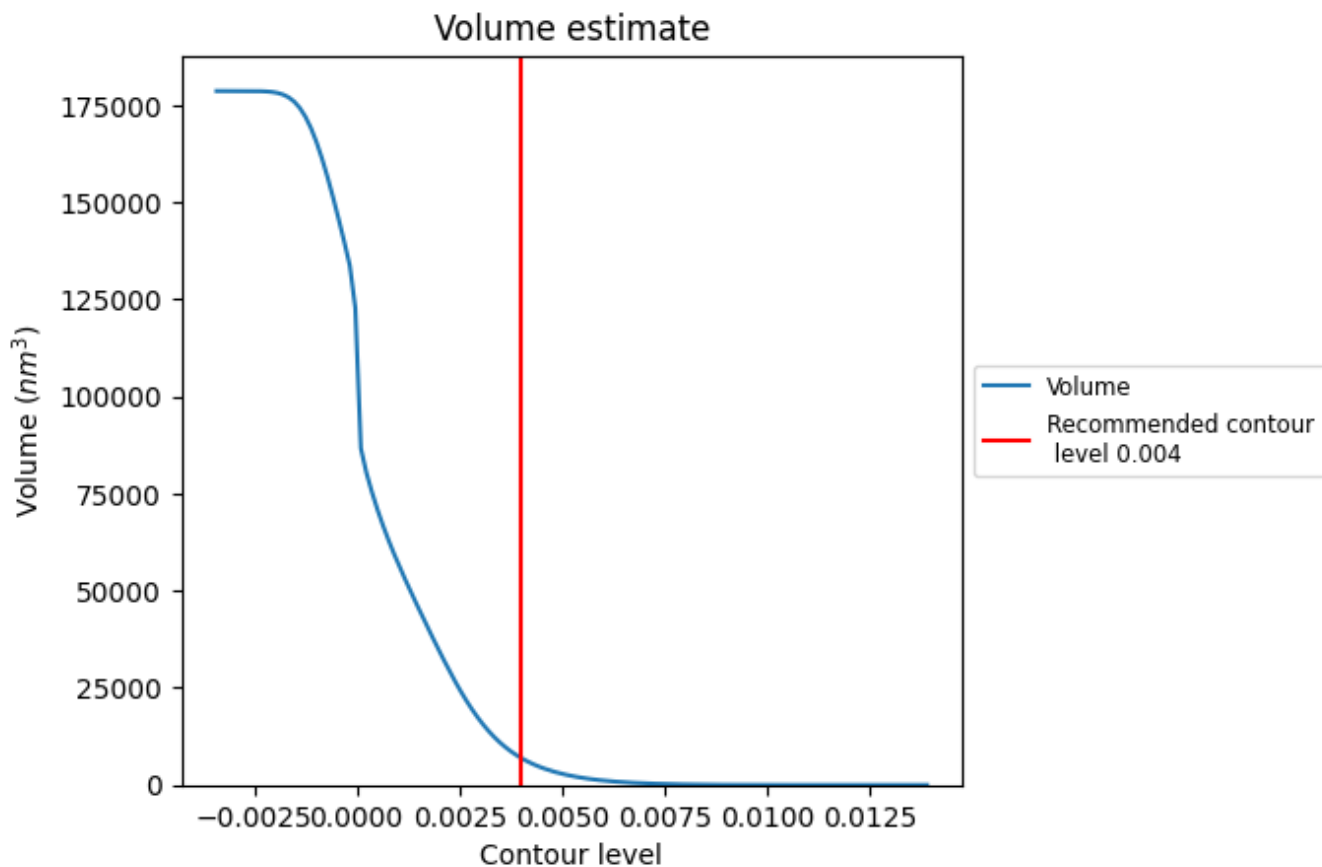
This section contains the results of statistical analysis of the map.

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



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

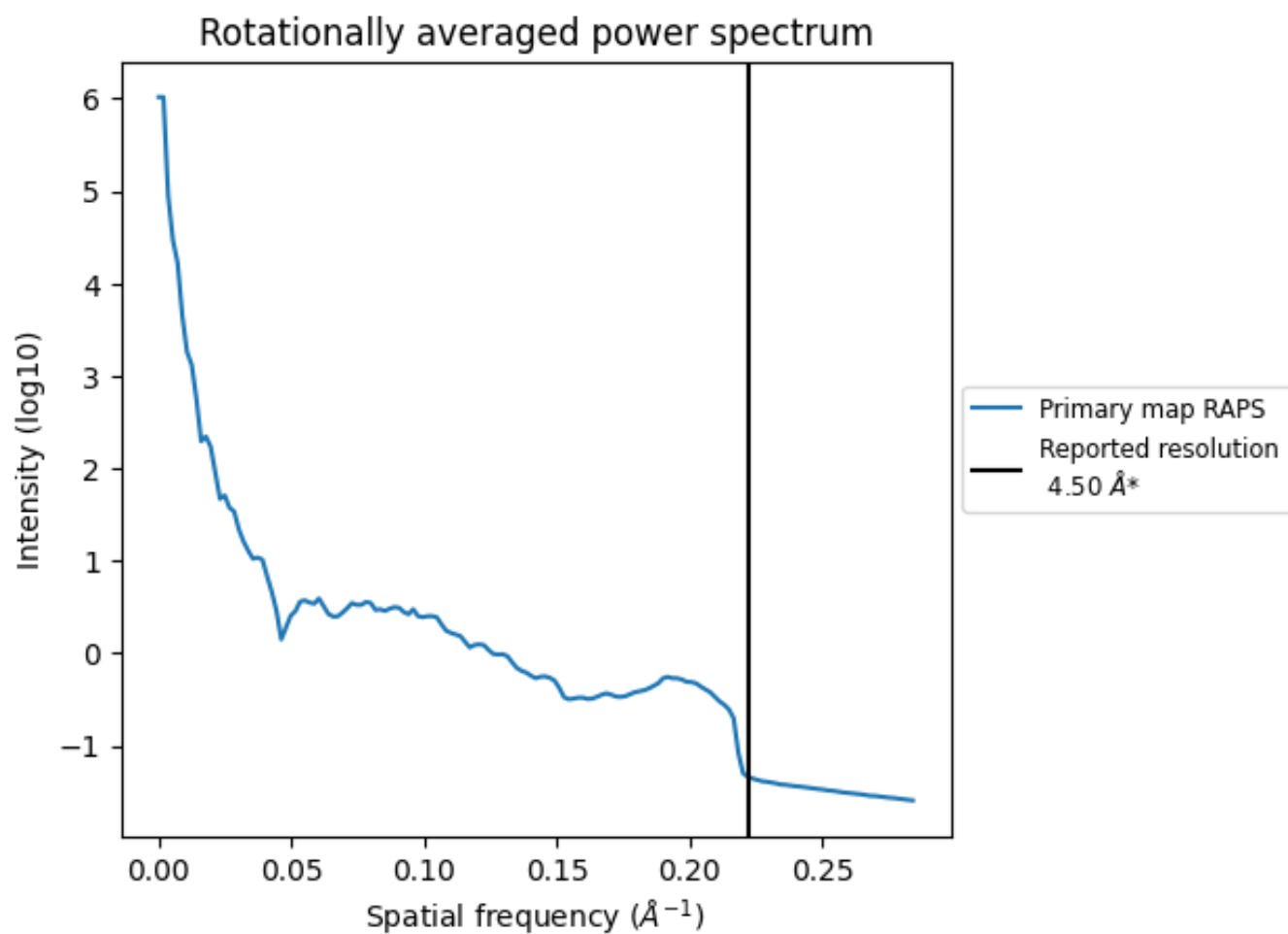
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 6982  $\text{nm}^3$ ; this corresponds to an approximate mass of 6307 kDa.

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

### 7.3 Rotationally averaged power spectrum [i](#)



\*Reported resolution corresponds to spatial frequency of 0.222 Å<sup>-1</sup>

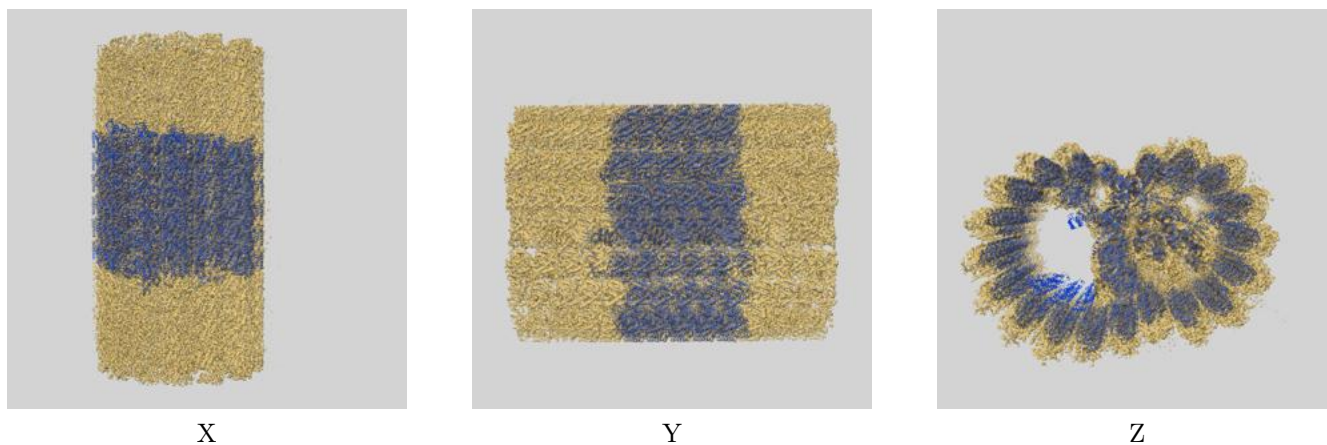
## 8 Fourier-Shell correlation

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

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

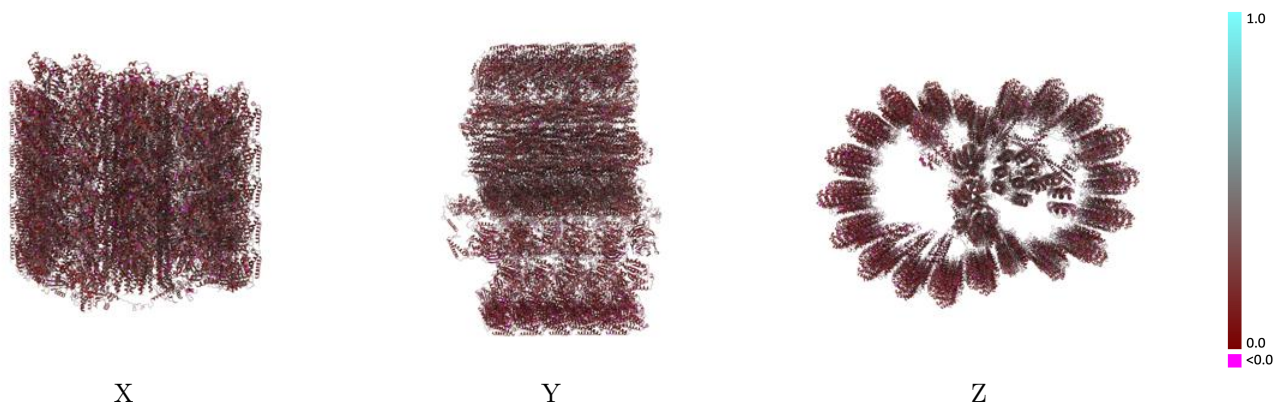
This section contains information regarding the fit between EMDB map EMD-35229 and PDB model 8I7O. Per-residue inclusion information can be found in section 3 on page 30.

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



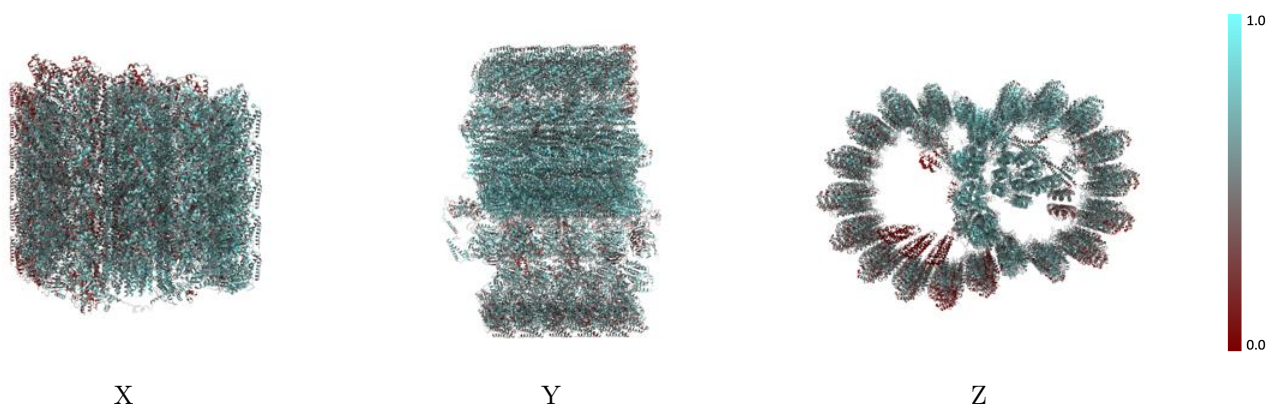
The images above show the 3D surface view of the map at the recommended contour level 0.004 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

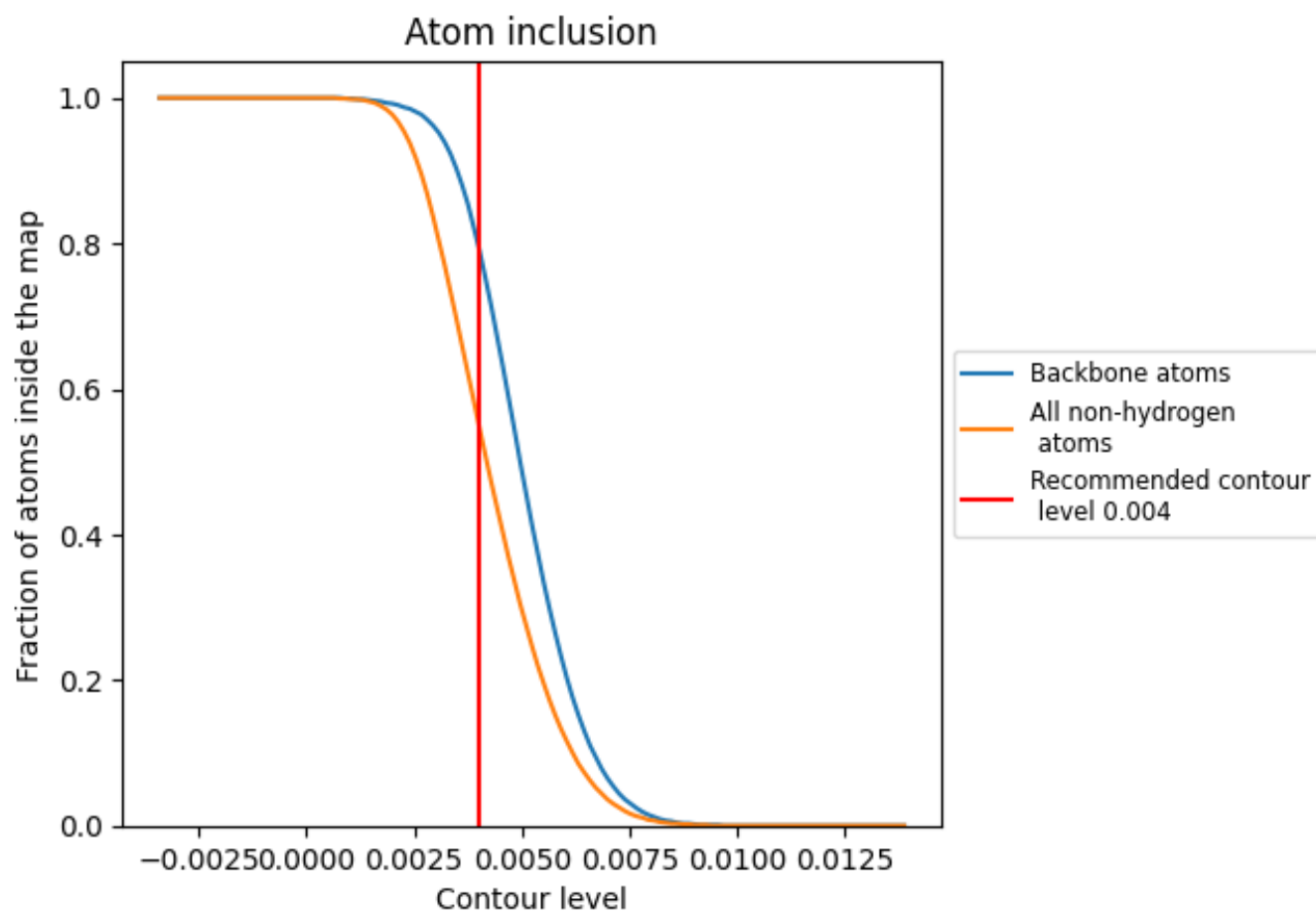
## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.004).









































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 55% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.004) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5520	 0.2480
A2	 0.7070	 0.3000
A3	 0.7070	 0.2980
AE	 0.7160	 0.2840
AF	 0.7460	 0.2980
AG	 0.7370	 0.2930
AH	 0.7440	 0.2910
AI	 0.7520	 0.2930
B2	 0.6820	 0.2930
B3	 0.6960	 0.3000
B7	 0.6930	 0.2900
B8	 0.6950	 0.2860
BE	 0.6430	 0.2790
BF	 0.6820	 0.2850
BG	 0.6560	 0.2810
BH	 0.7020	 0.2970
BI	 0.6880	 0.2850
C2	 0.7060	 0.2860
C3	 0.6990	 0.2850
C4	 0.6920	 0.2790
C7	 0.7150	 0.2910
C8	 0.7000	 0.2910
CF	 0.6440	 0.2760
CG	 0.6470	 0.2790
CH	 0.6620	 0.2820
CI	 0.6480	 0.2790
CJ	 0.6350	 0.2750
Cb	 0.6950	 0.2970
Cc	 0.6990	 0.2900
D2	 0.6950	 0.2980
D3	 0.6970	 0.2880
D4	 0.6930	 0.2970
D7	 0.7030	 0.2630
D8	 0.7010	 0.2810
D9	 0.7080	 0.2940























































































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Chain	Atom inclusion	Q-score
DD	0.6170	0.2640
DE	0.6250	0.2690
DF	0.6350	0.2770
DG	0.6100	0.2670
DH	0.6290	0.2680
E2	0.6260	0.3210
E3	0.6700	0.3270
ED	0.5550	0.2600
EE	0.6130	0.2810
EF	0.6060	0.2730
EG	0.5900	0.2830
EH	0.5830	0.2630
F2	0.6310	0.2700
F3	0.6110	0.2590
F6	0.4720	0.2310
F7	0.4710	0.2320
FD	0.5030	0.2530
FE	0.5680	0.2770
FF	0.5890	0.2820
FG	0.5500	0.2810
FH	0.5620	0.2730
Fa	0.2860	0.2000
Fb	0.3000	0.2080
Fc	0.2420	0.2420
F1	0.4430	0.1880
G1	0.5610	0.3020
G2	0.5800	0.3040
G5	0.5910	0.2990
GD	0.4360	0.2560
GE	0.5290	0.2660
GF	0.5620	0.2730
GG	0.5200	0.2620
GH	0.5330	0.2760
GI	0.5070	0.2630
H3	0.5760	0.2550
H4	0.5860	0.2450
HD	0.3910	0.2450
HE	0.5050	0.2570
HF	0.5120	0.2520
HG	0.5100	0.2540
HH	0.5230	0.2650
HI	0.5140	0.2630

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Chain	Atom inclusion	Q-score
I2	 0.6550	 0.2400
I3	 0.6890	 0.2300
IE	 0.5330	 0.2520
IF	 0.5620	 0.2640
IG	 0.5740	 0.2790
IH	 0.5620	 0.2710
II	 0.5550	 0.2650
J2	 0.5660	 0.3040
J3	 0.5450	 0.2850
JD	 0.5770	 0.2520
JE	 0.6010	 0.2650
JF	 0.6100	 0.2710
JG	 0.5810	 0.2730
JH	 0.5910	 0.2540
K2	 0.5810	 0.2560
K3	 0.6100	 0.2730
K4	 0.4550	 0.2670
KD	 0.6470	 0.2750
KE	 0.6490	 0.2820
KF	 0.6630	 0.2990
KG	 0.6460	 0.2900
KH	 0.6590	 0.2820
KI	 0.6330	 0.2760
L2	 0.5330	 0.2460
L3	 0.5210	 0.2470
LD	 0.6700	 0.2830
LE	 0.6830	 0.2990
LF	 0.6820	 0.2890
LG	 0.6900	 0.3000
LH	 0.6900	 0.3040
LI	 0.6770	 0.2910
M2	 0.6020	 0.2980
M3	 0.5410	 0.2840
ME	 0.6860	 0.2940
MF	 0.6900	 0.2970
MG	 0.7330	 0.2980
MH	 0.7450	 0.2950
MI	 0.7060	 0.2970
N2	 0.5800	 0.2630
N3	 0.6110	 0.2630
ND	 0.3420	 0.2050
NE	 0.3840	 0.2110

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Chain	Atom inclusion	Q-score
NF	█ 0.4680	█ 0.2120
NG	█ 0.4570	█ 0.2170
NH	█ 0.4520	█ 0.2180
NI	█ 0.3380	█ 0.2110
O1	█ 0.4830	█ 0.2640
O2	█ 0.6020	█ 0.2780
OD	█ 0.3060	█ 0.1950
OE	█ 0.3940	█ 0.1970
OF	█ 0.4100	█ 0.2000
OG	█ 0.3920	█ 0.2020
OH	█ 0.4290	█ 0.2060
OI	█ 0.3920	█ 0.1990
P1	█ 0.4790	█ 0.1940
P2	█ 0.4990	█ 0.1920
PE	█ 0.4140	█ 0.1970
PF	█ 0.4430	█ 0.2040
PG	█ 0.4200	█ 0.2000
PH	█ 0.4430	█ 0.1970
PI	█ 0.4300	█ 0.1980
Q1	█ 0.2420	█ 0.1900
Q2	█ 0.2690	█ 0.1910
QE	█ 0.4140	█ 0.1960
QF	█ 0.4240	█ 0.2020
QG	█ 0.4260	█ 0.1980
QH	█ 0.4370	█ 0.2040
QI	█ 0.4380	█ 0.1930
R2	█ 0.5270	█ 0.2520
RE	█ 0.4260	█ 0.1930
RF	█ 0.4350	█ 0.1970
RG	█ 0.4230	█ 0.2000
RH	█ 0.4360	█ 0.1990
RI	█ 0.4380	█ 0.2010
RJ	█ 0.4420	█ 0.2040
SE	█ 0.4610	█ 0.2000
SF	█ 0.4770	█ 0.2000
SG	█ 0.4710	█ 0.1990
SH	█ 0.4790	█ 0.1970
SI	█ 0.4790	█ 0.2010
SJ	█ 0.4570	█ 0.1980
TF	█ 0.5130	█ 0.1920
TG	█ 0.4860	█ 0.1880
TH	█ 0.4990	█ 0.1970

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Chain	Atom inclusion	Q-score
TI	█ 0.4960	█ 0.1920
TJ	█ 0.5110	█ 0.1990
UD	█ 0.5090	█ 0.1920
UE	█ 0.4970	█ 0.1980
UF	█ 0.5280	█ 0.2000
UG	█ 0.5340	█ 0.1870
UH	█ 0.5290	█ 0.1960
VD	█ 0.5790	█ 0.2070
VE	█ 0.5510	█ 0.2070
VF	█ 0.5780	█ 0.2140
VG	█ 0.5630	█ 0.2130
VH	█ 0.5980	█ 0.2070
WE	█ 0.5950	█ 0.2280
WF	█ 0.6200	█ 0.2300
WG	█ 0.5870	█ 0.2340
WH	█ 0.6110	█ 0.2280
WI	█ 0.5920	█ 0.2190
XC	█ 0.7050	█ 0.2590
XD	█ 0.6980	█ 0.2660
XE	█ 0.7130	█ 0.2630
XJ	█ 0.5340	█ 0.2470
XK	█ 0.6700	█ 0.2490
XL	█ 0.5030	█ 0.2340
YI	█ 0.0330	█ 0.1640
YJ	█ 0.0220	█ 0.1820
YK	█ 0.0090	█ 0.1630
YL	█ 0.0440	█ 0.1750
YM	█ 0.0660	█ 0.1750
YN	█ 0.0890	█ 0.1900