Full wwPDB EM Validation Report

Mar 9, 2026 – 11:13 AM UTC

PDB ID	:	9UMB / pdb_00009umb
EMDB ID	:	EMD-64272
Title	:	Structure of Modified adeno-associated viral vector, AAV5-BCD
Authors	:	Zhang, H.; Burtseva, A.D.; Strelkova, A.N.; Perepelkina, M.P.; Iurlova, E.V.; Gershovich, P.M.; Prokof'ev, A.V.; Kolesnichenko, A.S.; Gulnova, A.R.; Nurtdinov, R.F.; Vasilev, A.A.; Yakovlev, P.A.; Popov, V.O.; Boyko, K.M.
Deposited on	:	2025-04-21
Resolution	:	2.55 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*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

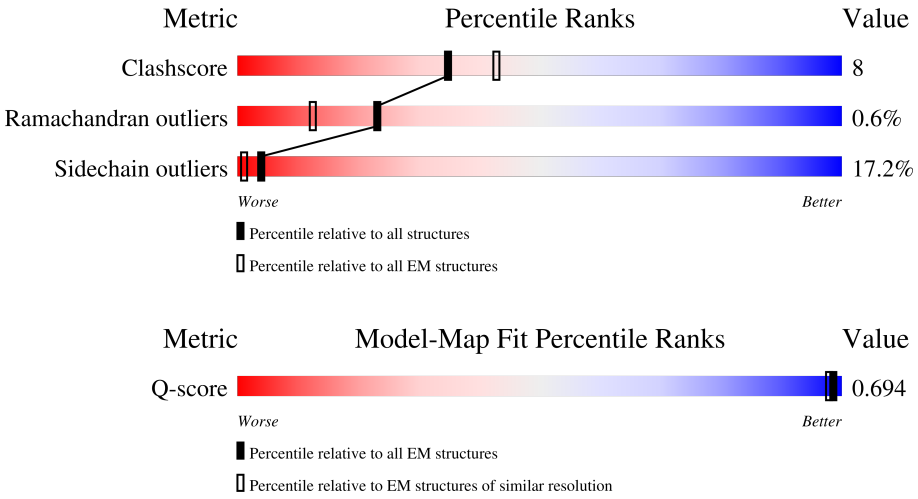
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.55 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	7475 (2.05 - 3.05)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	1	724	6% 47% 18% 6% • 29%
1	2	724	6% 46% 18% 6% • 29%
1	3	724	6% 46% 18% 6% • 29%
1	4	724	5% 47% 17% 6% • 29%

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Mol	Chain	Length	Quality of chain
1	5	724	6% 47% 17% 6% 29%
1	6	724	5% 47% 17% 6% 29%
1	7	724	5% 47% 17% 6% 29%
1	8	724	6% 47% 18% 6% 29%
1	A	724	5% 46% 18% 6% 29%
1	B	724	6% 46% 18% 6% 29%
1	C	724	5% 46% 18% 6% 29%
1	D	724	5% 47% 17% 6% 29%
1	E	724	6% 47% 17% 6% 29%
1	F	724	6% 46% 17% 6% 29%
1	G	724	6% 47% 17% 6% 29%
1	H	724	6% 46% 18% 7% 29%
1	I	724	6% 46% 18% 6% 29%
1	J	724	6% 46% 18% 6% 29%
1	K	724	5% 46% 18% 6% 29%
1	L	724	5% 47% 18% 6% 29%
1	M	724	6% 47% 17% 6% 29%
1	N	724	6% 46% 18% 6% 29%
1	O	724	6% 47% 17% 6% 29%
1	P	724	6% 47% 17% 6% 29%
1	Q	724	6% 47% 17% 6% 29%
1	R	724	5% 46% 18% 6% 29%
1	S	724	5% 47% 18% 6% 29%
1	T	724	5% 46% 17% 6% 29%
1	U	724	5% 47% 17% 6% 29%

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Mol	Chain	Length	Quality of chain
1	V	724	6% 46% 18% 6% 29%
1	W	724	6% 46% 18% 6% 29%
1	X	724	6% 46% 18% 6% 29%
1	Y	724	6% 46% 18% 6% 29%
1	Z	724	5% 47% 17% 6% 29%
1	a	724	6% 47% 18% 6% 29%
1	b	724	5% 46% 18% 6% 29%
1	c	724	5% 47% 17% 6% 29%
1	d	724	6% 47% 17% 6% 29%
1	e	724	5% 47% 17% 6% 29%
1	f	724	6% 46% 18% 6% 29%
1	g	724	5% 46% 17% 6% 29%
1	h	724	5% 47% 17% 6% 29%
1	i	724	6% 46% 17% 7% 29%
1	j	724	6% 46% 18% 6% 29%
1	k	724	6% 46% 18% 6% 29%
1	l	724	6% 46% 18% 6% 29%
1	m	724	6% 46% 18% 6% 29%
1	n	724	6% 46% 18% 6% 29%
1	o	724	5% 47% 17% 6% 29%
1	p	724	5% 46% 18% 6% 29%
1	q	724	6% 46% 18% 6% 29%
1	r	724	6% 47% 17% 6% 29%
1	s	724	6% 46% 18% 6% 29%
1	t	724	6% 47% 17% 6% 29%

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Mol	Chain	Length	Quality of chain
1	u	724	6% 46% 18% 6% 29%
1	v	724	5% 47% 17% 6% 29%
1	w	724	5% 46% 18% 6% 29%
1	x	724	5% 46% 18% 6% 29%
1	y	724	5% 47% 17% 6% 29%
1	z	724	6% 46% 18% 6% 29%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 246600 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 Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	B	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	C	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	D	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	E	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	F	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	G	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	H	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	I	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	J	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	K	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	L	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	M	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	N	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	O	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	P	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	Q	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	S	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	T	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	U	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	V	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	W	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	X	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	Y	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	Z	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	a	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	b	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	c	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	d	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	e	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	f	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	g	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	h	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	i	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	j	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	k	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	l	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	n	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	o	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	p	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	q	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	r	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	s	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	t	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	u	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	v	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	w	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	x	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	y	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	z	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	1	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	2	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	3	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	4	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	5	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	6	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		
1	7	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	516	Total	C	N	O	S	0	0
			4110	2599	705	790	16		

There are 120 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	2	ALA	SER	conflict	UNP Q9YIJ1
A	711	SER	THR	conflict	UNP Q9YIJ1
B	2	ALA	SER	conflict	UNP Q9YIJ1
B	711	SER	THR	conflict	UNP Q9YIJ1
C	2	ALA	SER	conflict	UNP Q9YIJ1
C	711	SER	THR	conflict	UNP Q9YIJ1
D	2	ALA	SER	conflict	UNP Q9YIJ1
D	711	SER	THR	conflict	UNP Q9YIJ1
E	2	ALA	SER	conflict	UNP Q9YIJ1
E	711	SER	THR	conflict	UNP Q9YIJ1
F	2	ALA	SER	conflict	UNP Q9YIJ1
F	711	SER	THR	conflict	UNP Q9YIJ1
G	2	ALA	SER	conflict	UNP Q9YIJ1
G	711	SER	THR	conflict	UNP Q9YIJ1
H	2	ALA	SER	conflict	UNP Q9YIJ1
H	711	SER	THR	conflict	UNP Q9YIJ1
I	2	ALA	SER	conflict	UNP Q9YIJ1
I	711	SER	THR	conflict	UNP Q9YIJ1
J	2	ALA	SER	conflict	UNP Q9YIJ1
J	711	SER	THR	conflict	UNP Q9YIJ1
K	2	ALA	SER	conflict	UNP Q9YIJ1
K	711	SER	THR	conflict	UNP Q9YIJ1
L	2	ALA	SER	conflict	UNP Q9YIJ1
L	711	SER	THR	conflict	UNP Q9YIJ1
M	2	ALA	SER	conflict	UNP Q9YIJ1
M	711	SER	THR	conflict	UNP Q9YIJ1
N	2	ALA	SER	conflict	UNP Q9YIJ1
N	711	SER	THR	conflict	UNP Q9YIJ1
O	2	ALA	SER	conflict	UNP Q9YIJ1
O	711	SER	THR	conflict	UNP Q9YIJ1
P	2	ALA	SER	conflict	UNP Q9YIJ1
P	711	SER	THR	conflict	UNP Q9YIJ1
Q	2	ALA	SER	conflict	UNP Q9YIJ1
Q	711	SER	THR	conflict	UNP Q9YIJ1
R	2	ALA	SER	conflict	UNP Q9YIJ1
R	711	SER	THR	conflict	UNP Q9YIJ1

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Chain	Residue	Modelled	Actual	Comment	Reference
S	2	ALA	SER	conflict	UNP Q9YIJ1
S	711	SER	THR	conflict	UNP Q9YIJ1
T	2	ALA	SER	conflict	UNP Q9YIJ1
T	711	SER	THR	conflict	UNP Q9YIJ1
U	2	ALA	SER	conflict	UNP Q9YIJ1
U	711	SER	THR	conflict	UNP Q9YIJ1
V	2	ALA	SER	conflict	UNP Q9YIJ1
V	711	SER	THR	conflict	UNP Q9YIJ1
W	2	ALA	SER	conflict	UNP Q9YIJ1
W	711	SER	THR	conflict	UNP Q9YIJ1
X	2	ALA	SER	conflict	UNP Q9YIJ1
X	711	SER	THR	conflict	UNP Q9YIJ1
Y	2	ALA	SER	conflict	UNP Q9YIJ1
Y	711	SER	THR	conflict	UNP Q9YIJ1
Z	2	ALA	SER	conflict	UNP Q9YIJ1
Z	711	SER	THR	conflict	UNP Q9YIJ1
a	2	ALA	SER	conflict	UNP Q9YIJ1
a	711	SER	THR	conflict	UNP Q9YIJ1
b	2	ALA	SER	conflict	UNP Q9YIJ1
b	711	SER	THR	conflict	UNP Q9YIJ1
c	2	ALA	SER	conflict	UNP Q9YIJ1
c	711	SER	THR	conflict	UNP Q9YIJ1
d	2	ALA	SER	conflict	UNP Q9YIJ1
d	711	SER	THR	conflict	UNP Q9YIJ1
e	2	ALA	SER	conflict	UNP Q9YIJ1
e	711	SER	THR	conflict	UNP Q9YIJ1
f	2	ALA	SER	conflict	UNP Q9YIJ1
f	711	SER	THR	conflict	UNP Q9YIJ1
g	2	ALA	SER	conflict	UNP Q9YIJ1
g	711	SER	THR	conflict	UNP Q9YIJ1
h	2	ALA	SER	conflict	UNP Q9YIJ1
h	711	SER	THR	conflict	UNP Q9YIJ1
i	2	ALA	SER	conflict	UNP Q9YIJ1
i	711	SER	THR	conflict	UNP Q9YIJ1
j	2	ALA	SER	conflict	UNP Q9YIJ1
j	711	SER	THR	conflict	UNP Q9YIJ1
k	2	ALA	SER	conflict	UNP Q9YIJ1
k	711	SER	THR	conflict	UNP Q9YIJ1
l	2	ALA	SER	conflict	UNP Q9YIJ1
l	711	SER	THR	conflict	UNP Q9YIJ1
m	2	ALA	SER	conflict	UNP Q9YIJ1
m	711	SER	THR	conflict	UNP Q9YIJ1

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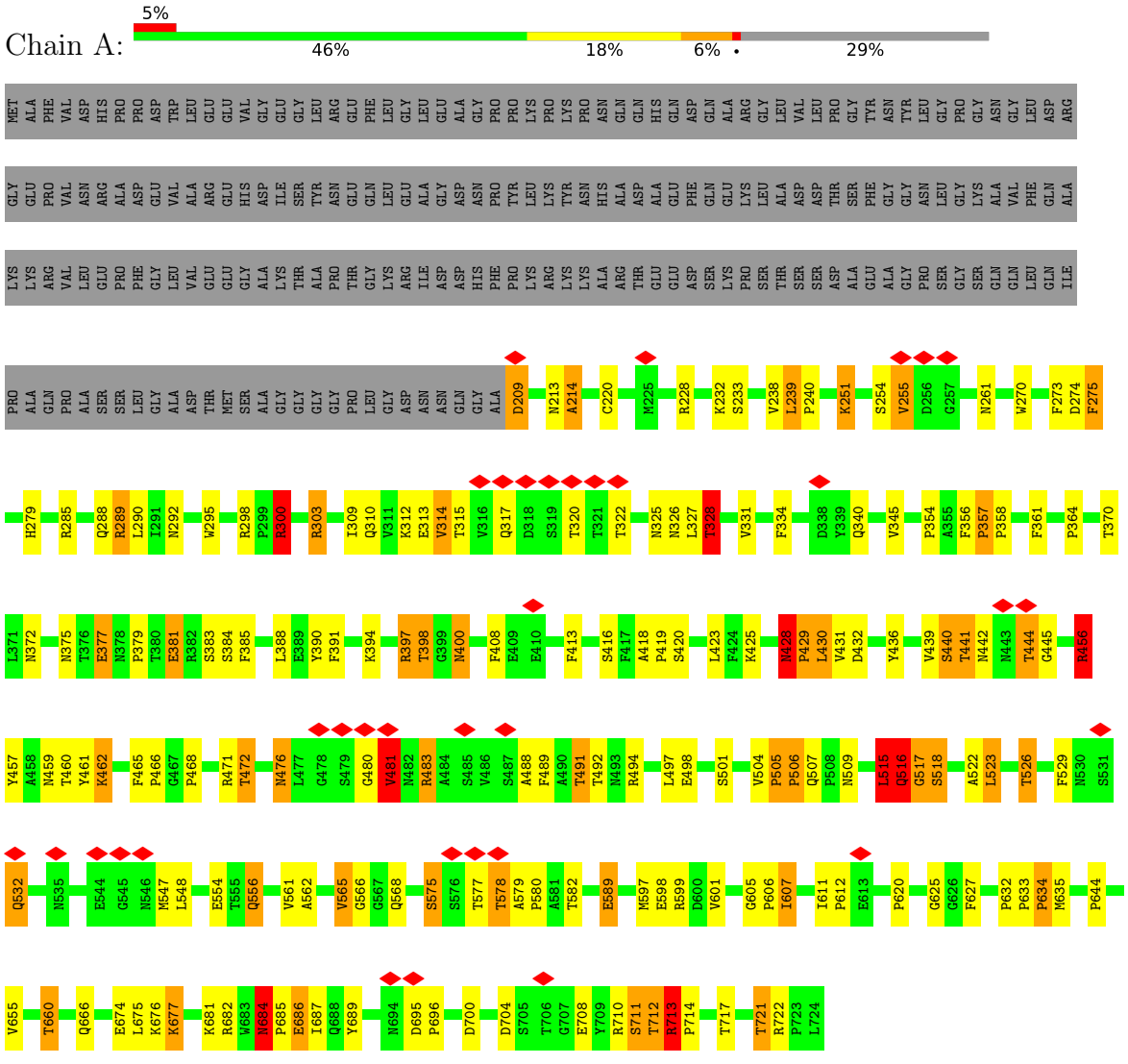
Chain	Residue	Modelled	Actual	Comment	Reference
n	2	ALA	SER	conflict	UNP Q9YIJ1
n	711	SER	THR	conflict	UNP Q9YIJ1
o	2	ALA	SER	conflict	UNP Q9YIJ1
o	711	SER	THR	conflict	UNP Q9YIJ1
p	2	ALA	SER	conflict	UNP Q9YIJ1
p	711	SER	THR	conflict	UNP Q9YIJ1
q	2	ALA	SER	conflict	UNP Q9YIJ1
q	711	SER	THR	conflict	UNP Q9YIJ1
r	2	ALA	SER	conflict	UNP Q9YIJ1
r	711	SER	THR	conflict	UNP Q9YIJ1
s	2	ALA	SER	conflict	UNP Q9YIJ1
s	711	SER	THR	conflict	UNP Q9YIJ1
t	2	ALA	SER	conflict	UNP Q9YIJ1
t	711	SER	THR	conflict	UNP Q9YIJ1
u	2	ALA	SER	conflict	UNP Q9YIJ1
u	711	SER	THR	conflict	UNP Q9YIJ1
v	2	ALA	SER	conflict	UNP Q9YIJ1
v	711	SER	THR	conflict	UNP Q9YIJ1
w	2	ALA	SER	conflict	UNP Q9YIJ1
w	711	SER	THR	conflict	UNP Q9YIJ1
x	2	ALA	SER	conflict	UNP Q9YIJ1
x	711	SER	THR	conflict	UNP Q9YIJ1
y	2	ALA	SER	conflict	UNP Q9YIJ1
y	711	SER	THR	conflict	UNP Q9YIJ1
z	2	ALA	SER	conflict	UNP Q9YIJ1
z	711	SER	THR	conflict	UNP Q9YIJ1
1	2	ALA	SER	conflict	UNP Q9YIJ1
1	711	SER	THR	conflict	UNP Q9YIJ1
2	2	ALA	SER	conflict	UNP Q9YIJ1
2	711	SER	THR	conflict	UNP Q9YIJ1
3	2	ALA	SER	conflict	UNP Q9YIJ1
3	711	SER	THR	conflict	UNP Q9YIJ1
4	2	ALA	SER	conflict	UNP Q9YIJ1
4	711	SER	THR	conflict	UNP Q9YIJ1
5	2	ALA	SER	conflict	UNP Q9YIJ1
5	711	SER	THR	conflict	UNP Q9YIJ1
6	2	ALA	SER	conflict	UNP Q9YIJ1
6	711	SER	THR	conflict	UNP Q9YIJ1
7	2	ALA	SER	conflict	UNP Q9YIJ1
7	711	SER	THR	conflict	UNP Q9YIJ1
8	2	ALA	SER	conflict	UNP Q9YIJ1
8	711	SER	THR	conflict	UNP Q9YIJ1

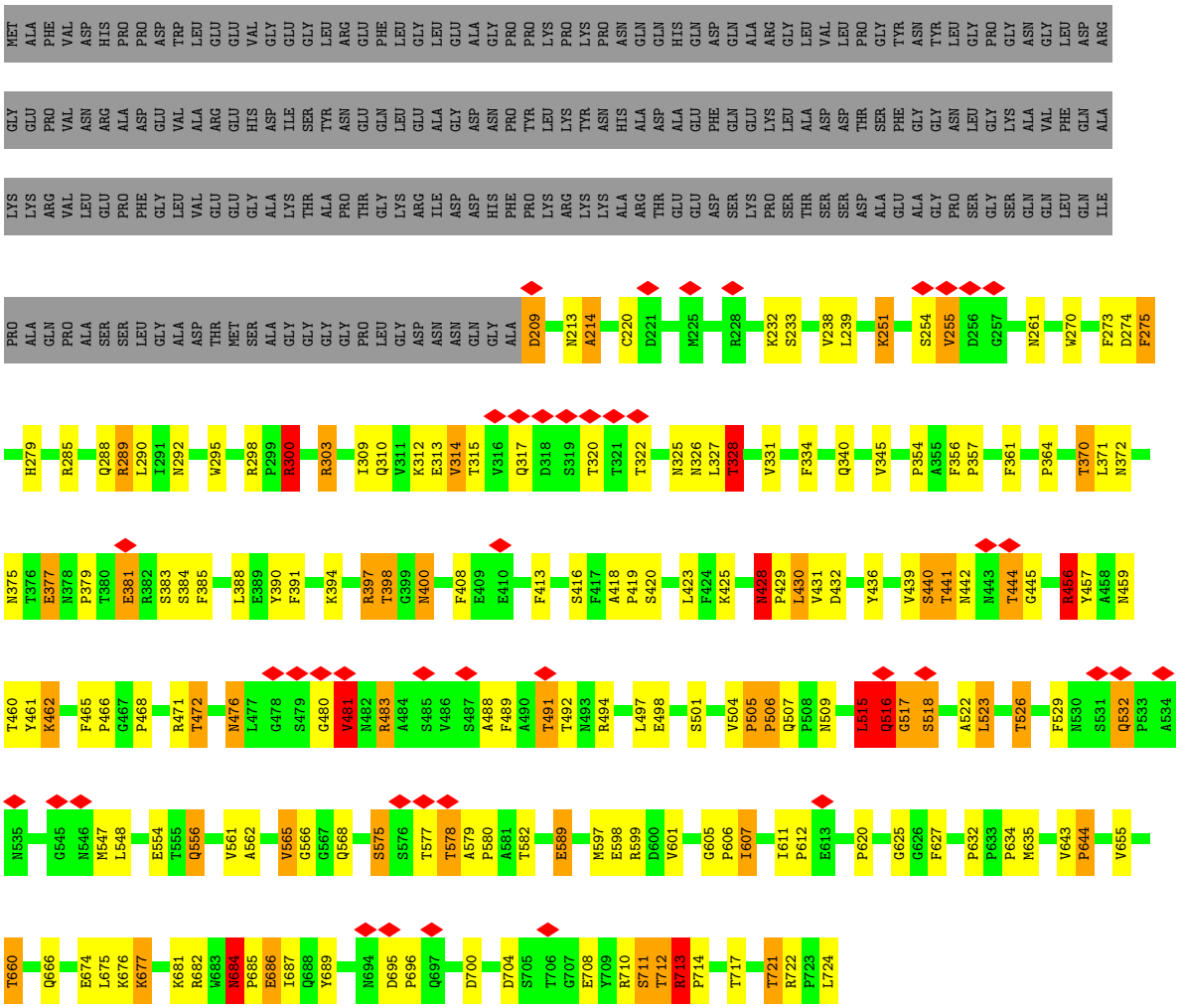
3 Residue-property plots (i)

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: Capsid protein

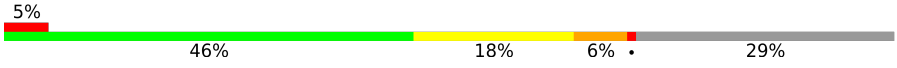


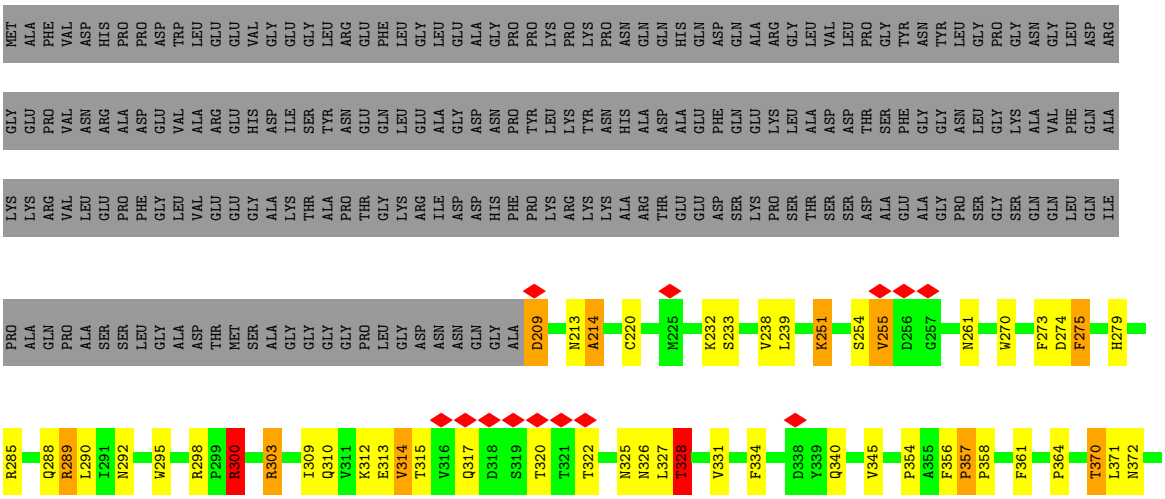
• Molecule 1: Capsid protein

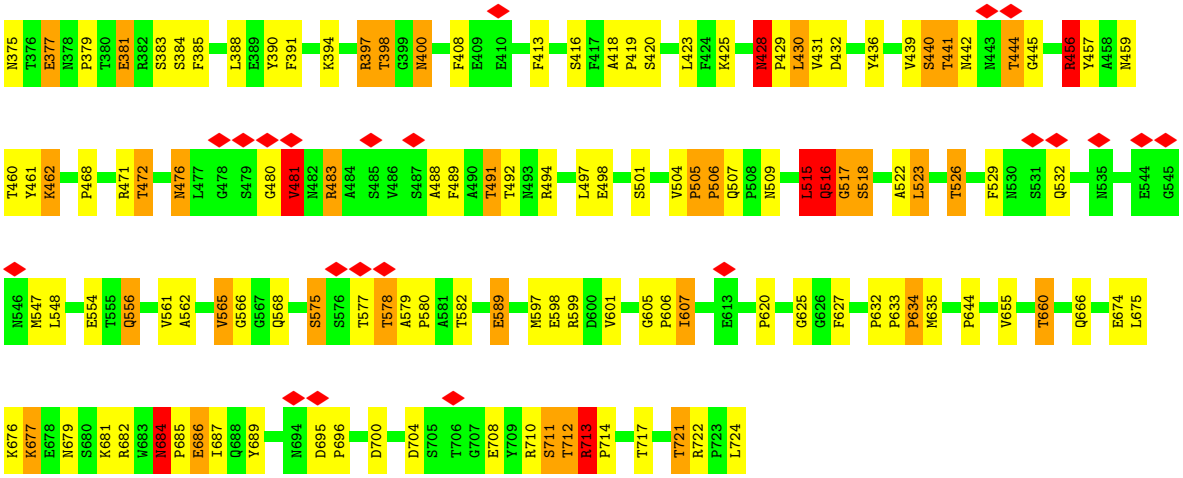


• Molecule 1: Capsid protein

Chain C:

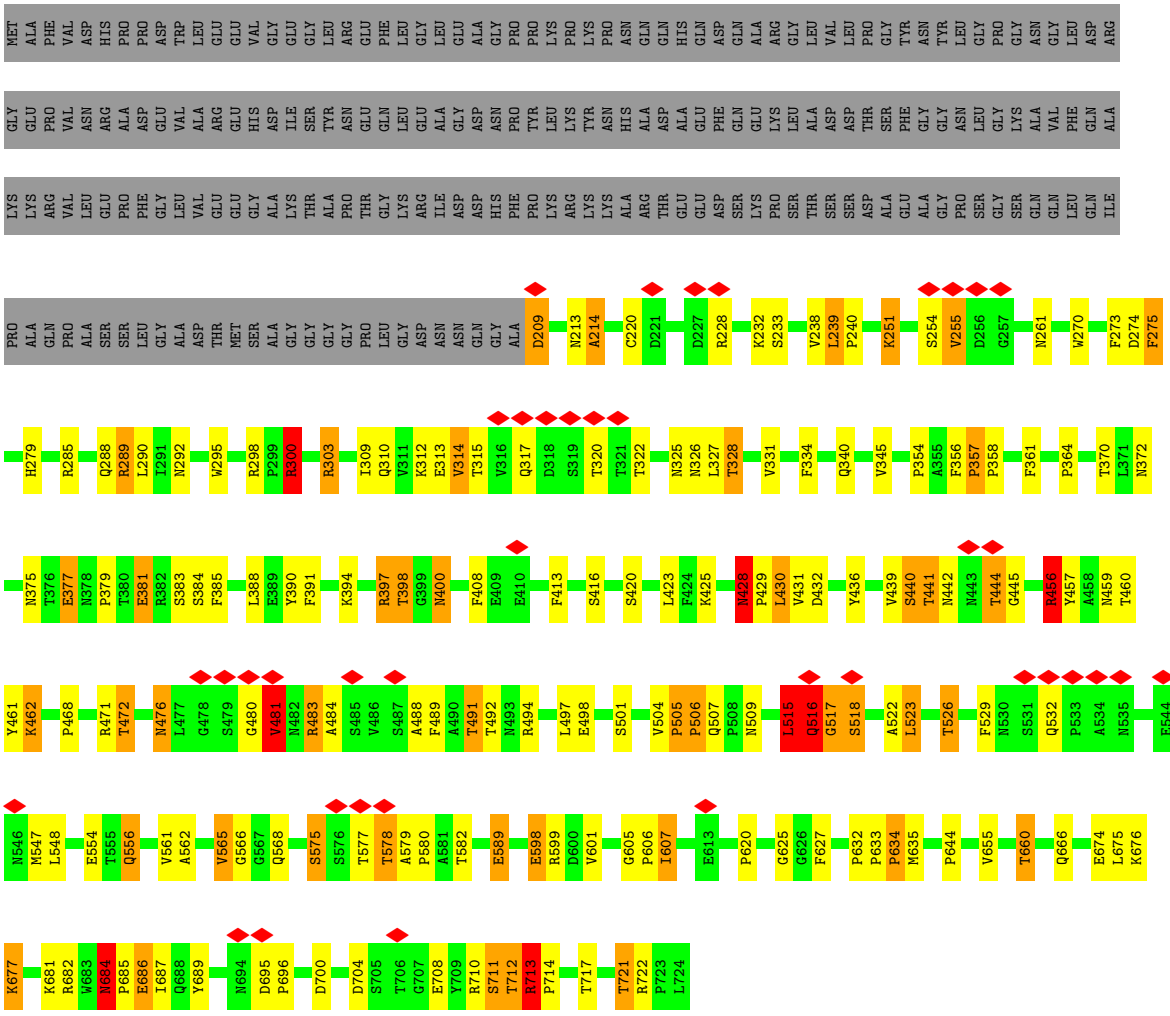






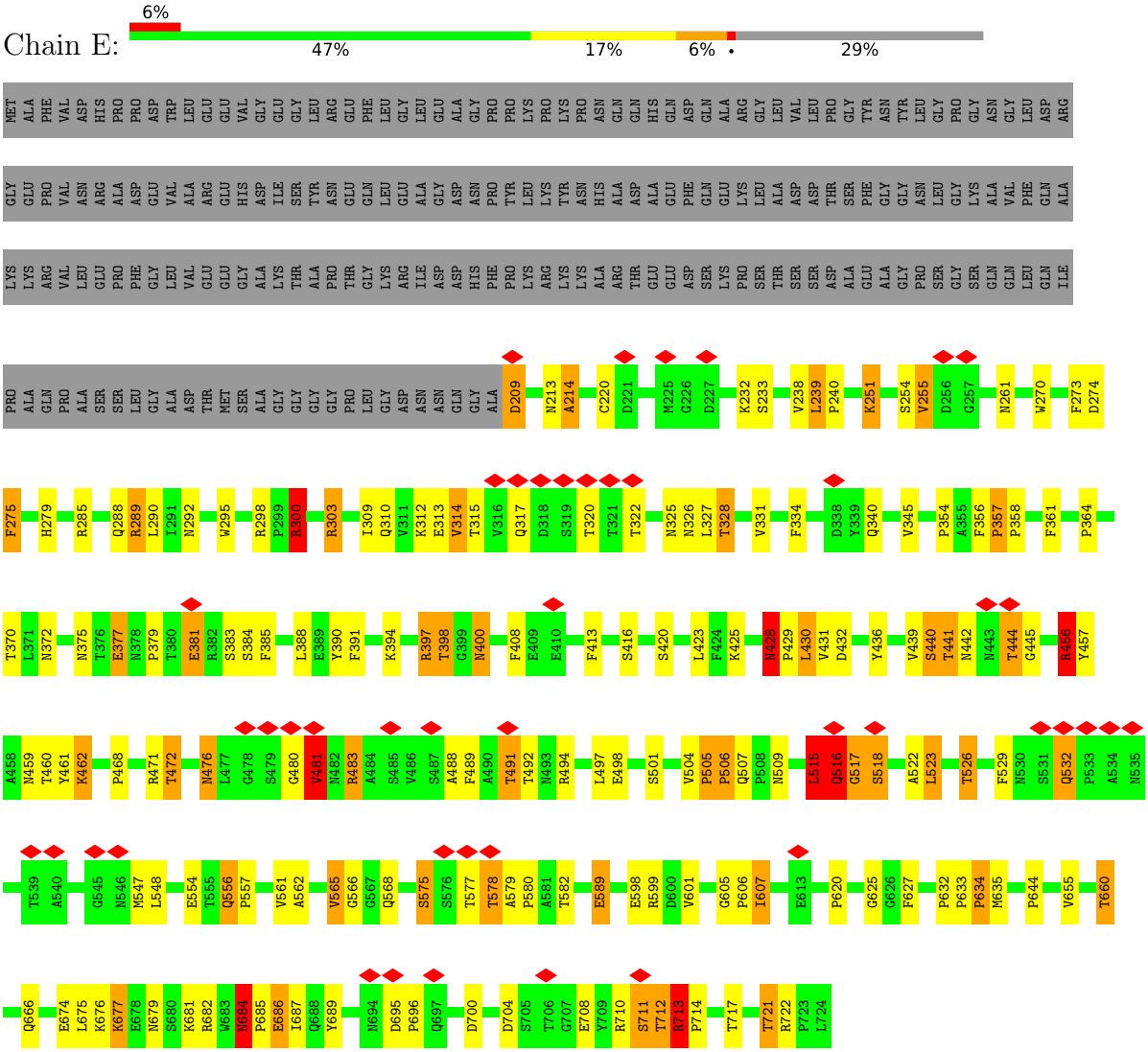
• Molecule 1: Capsid protein

Chain D:



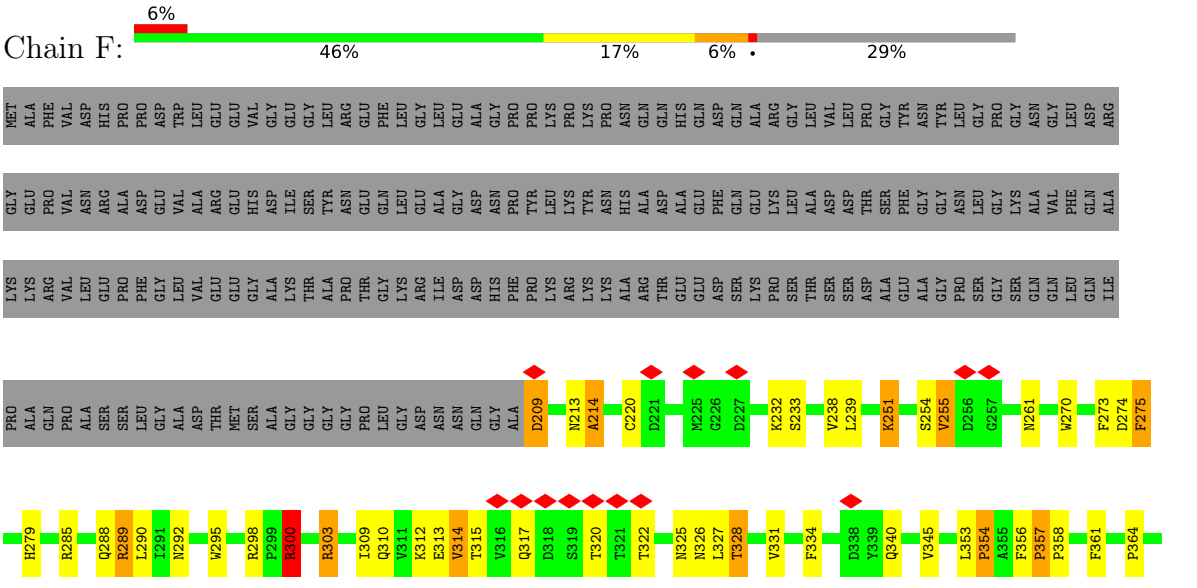
• Molecule 1: Capsid protein

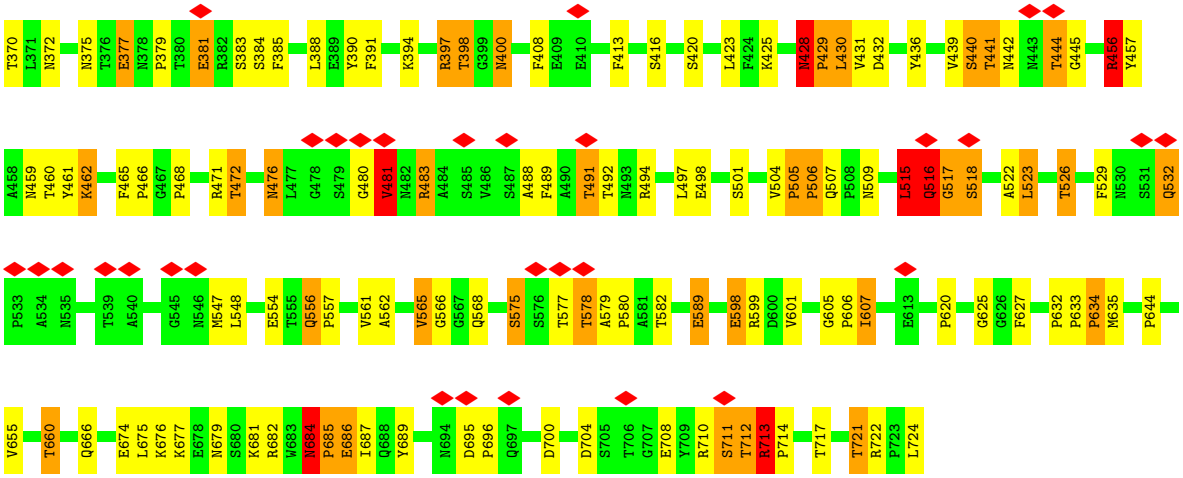
Chain E:



• Molecule 1: Capsid protein

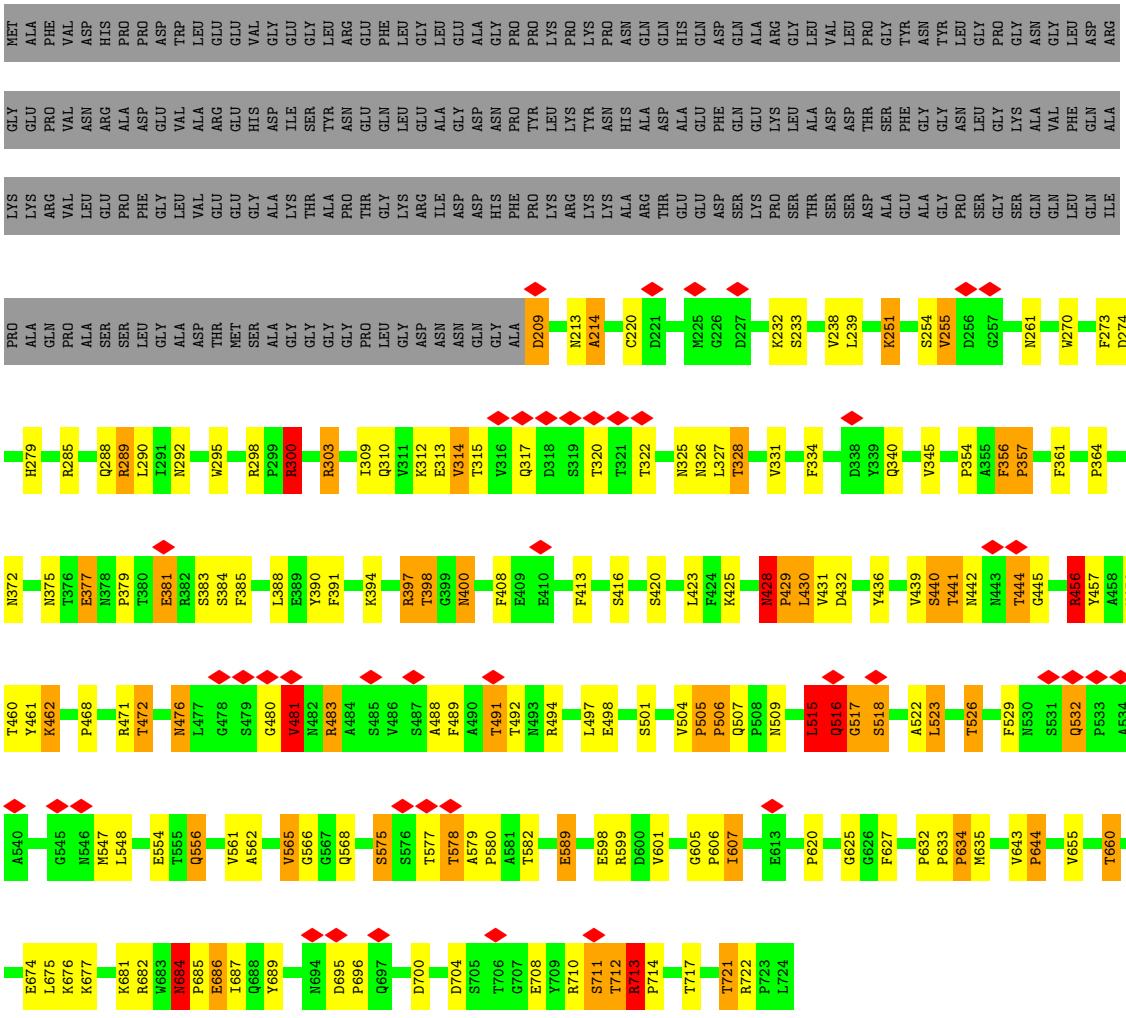
Chain F:





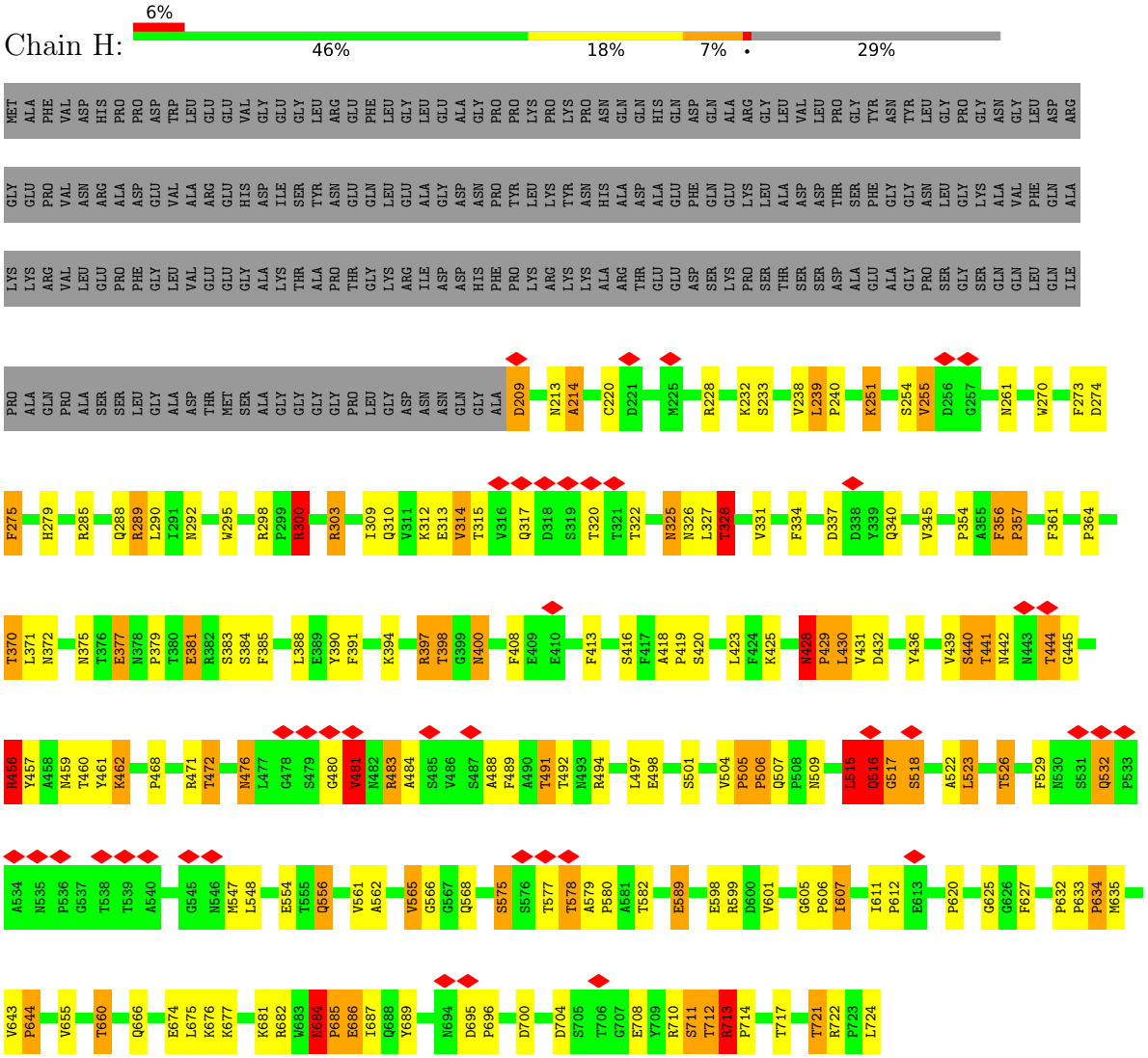
• Molecule 1: Capsid protein

Chain G:



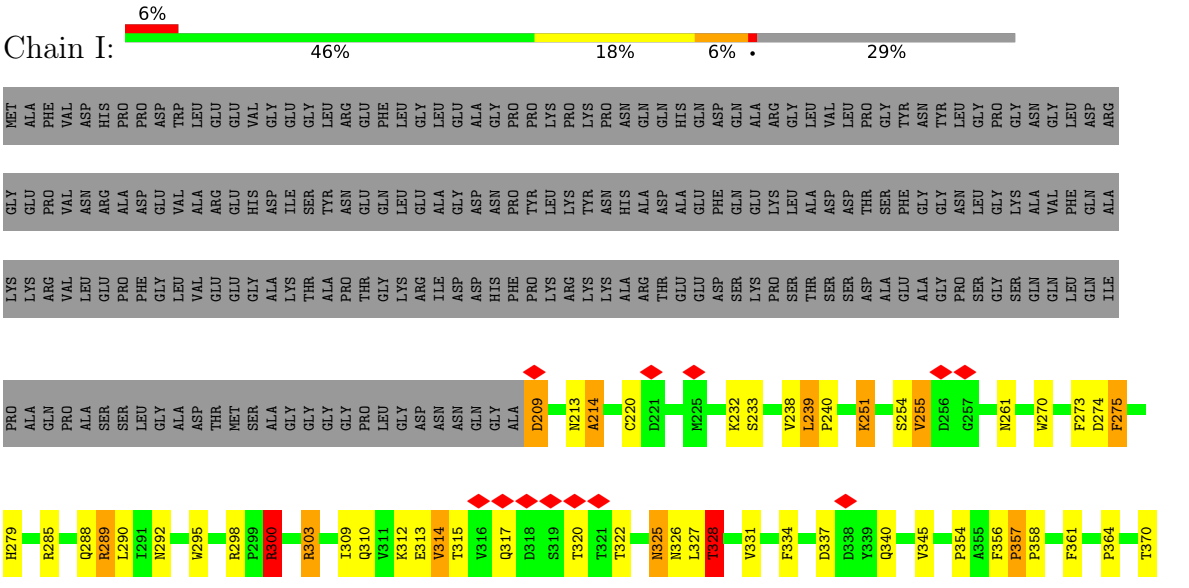
• Molecule 1: Capsid protein

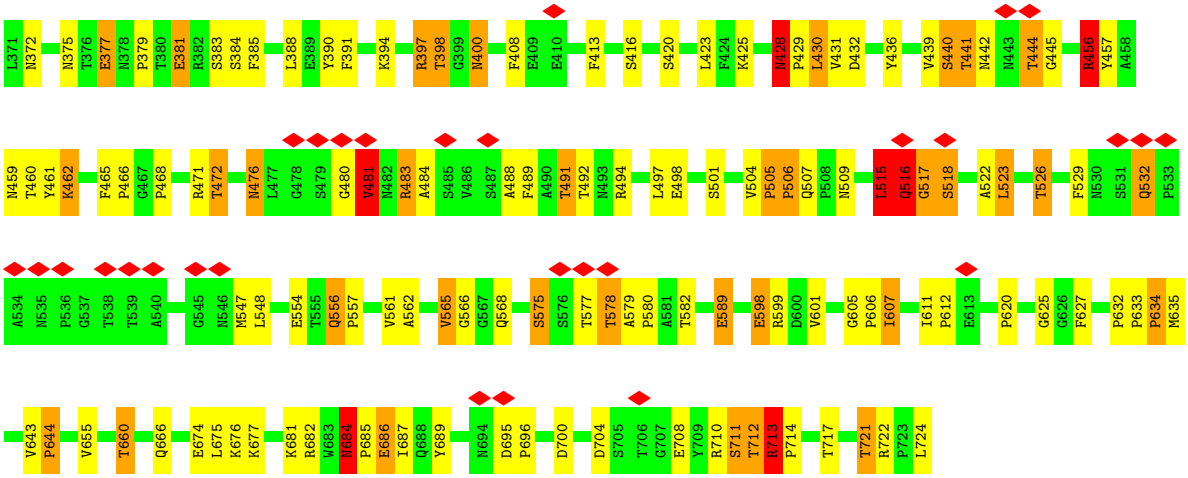
Chain H:



• Molecule 1: Capsid protein

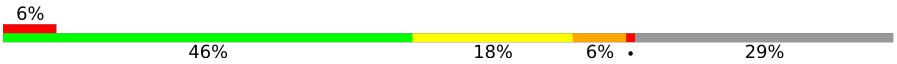
Chain I:

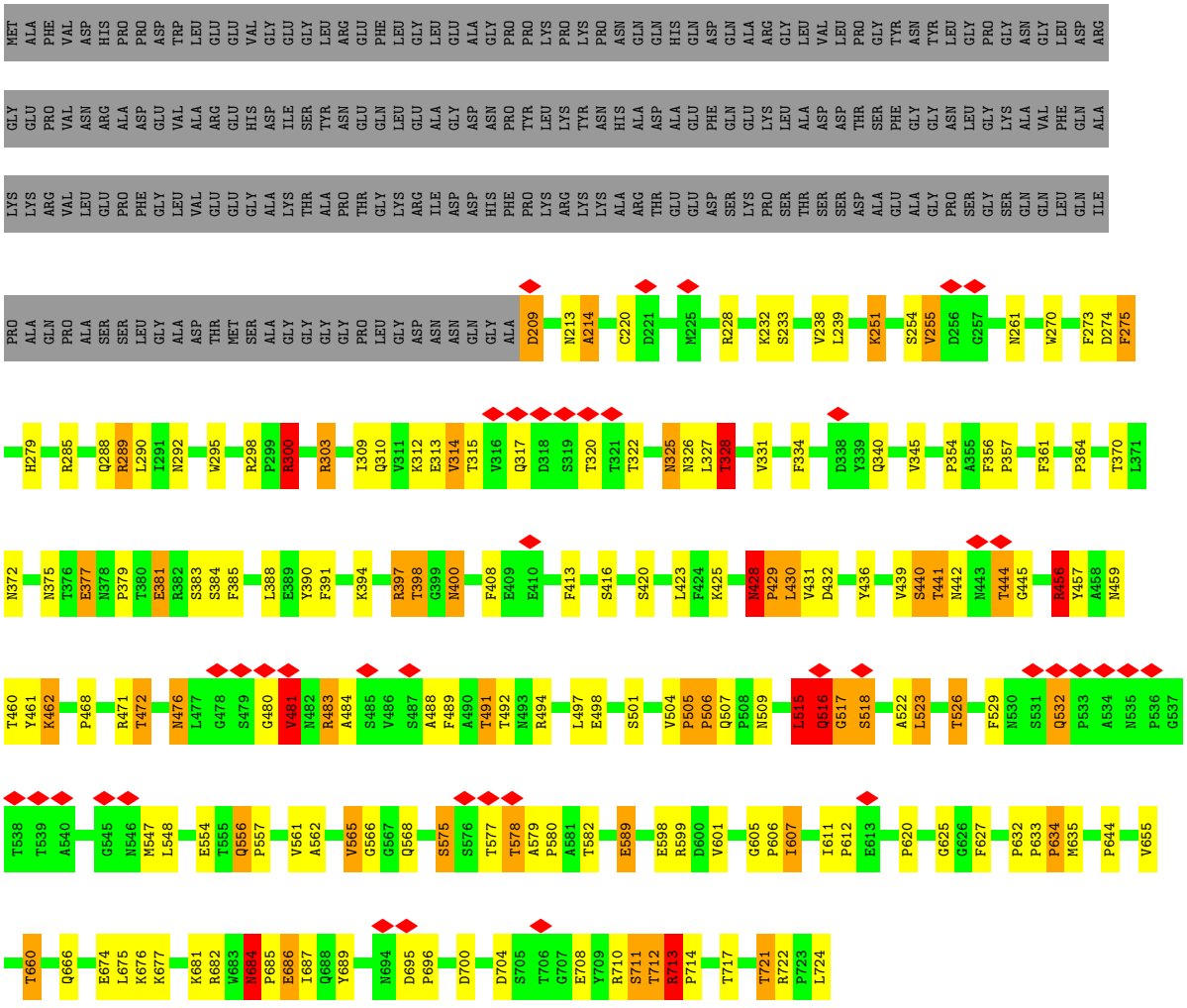




• Molecule 1: Capsid protein

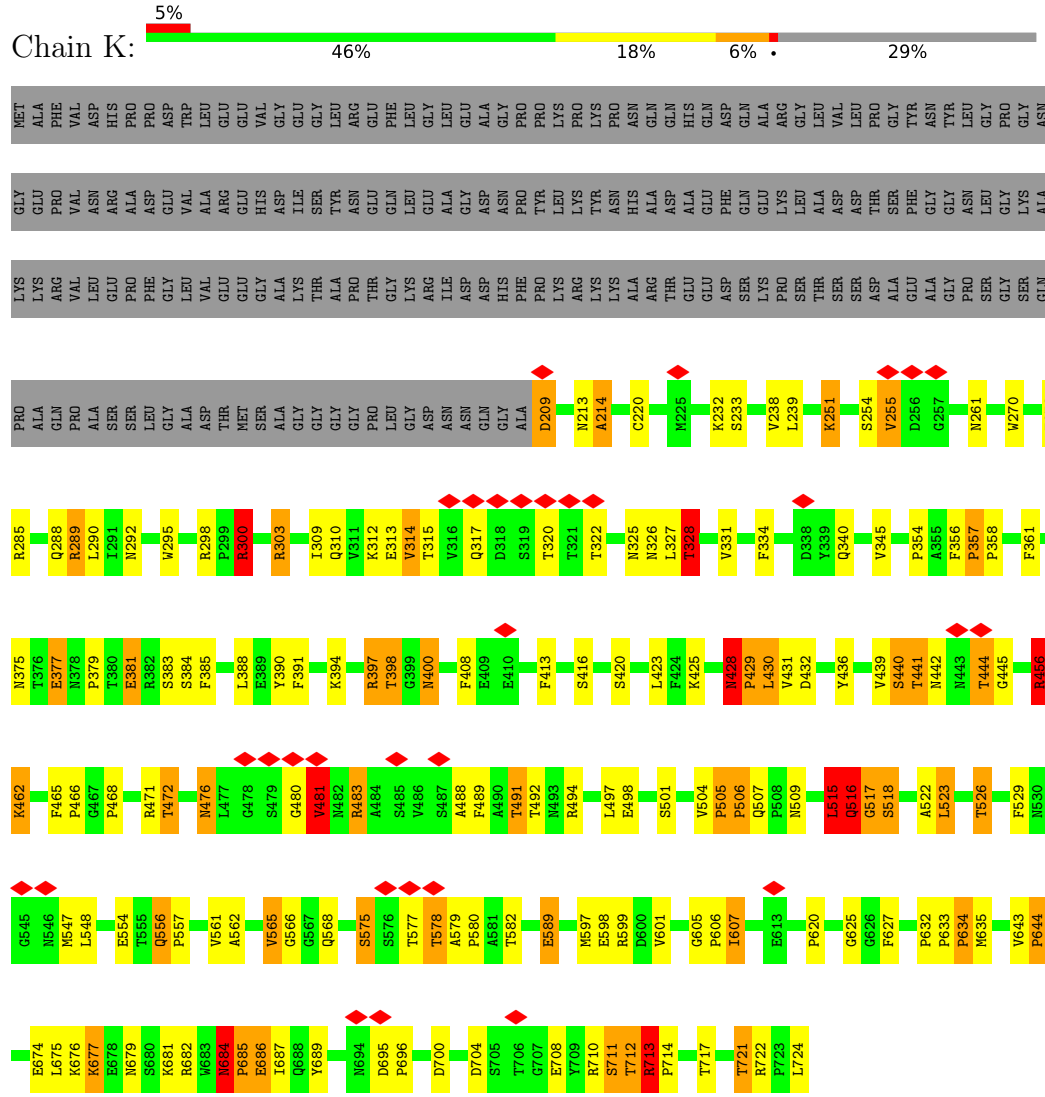
Chain J:





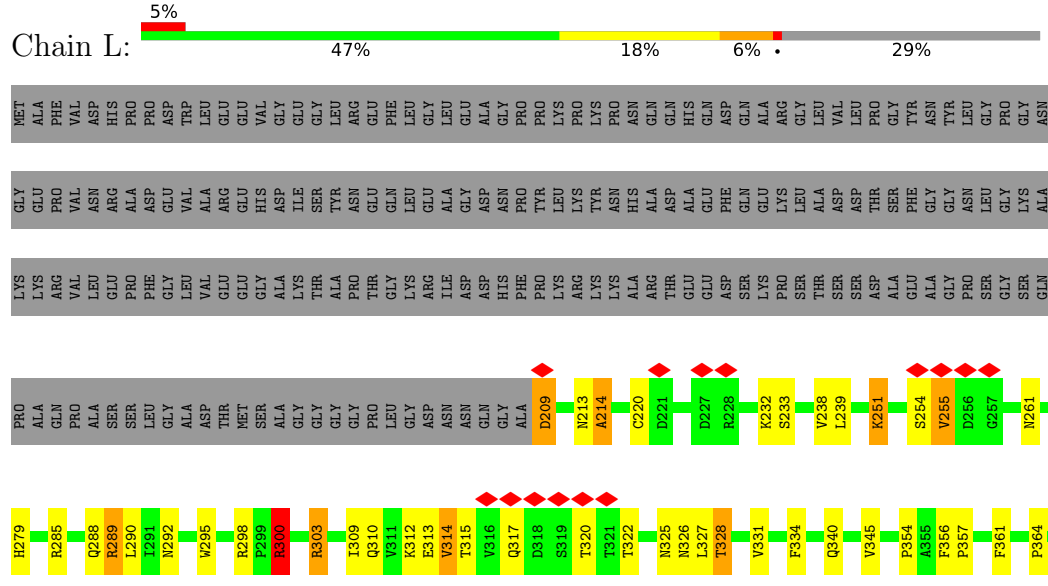
• Molecule 1: Capsid protein

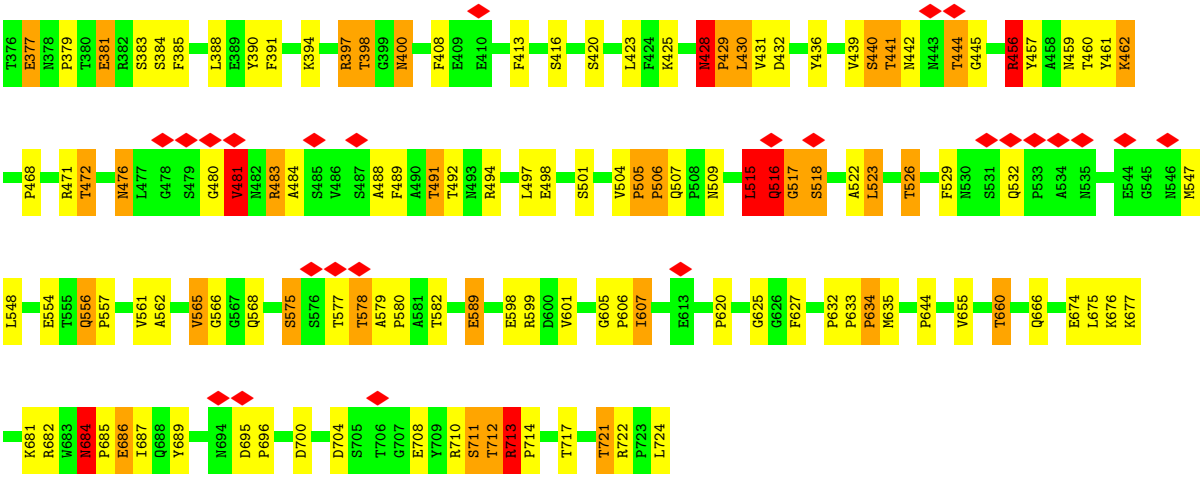
Chain K:



• Molecule 1: Capsid protein

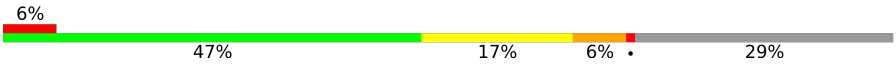
Chain L:

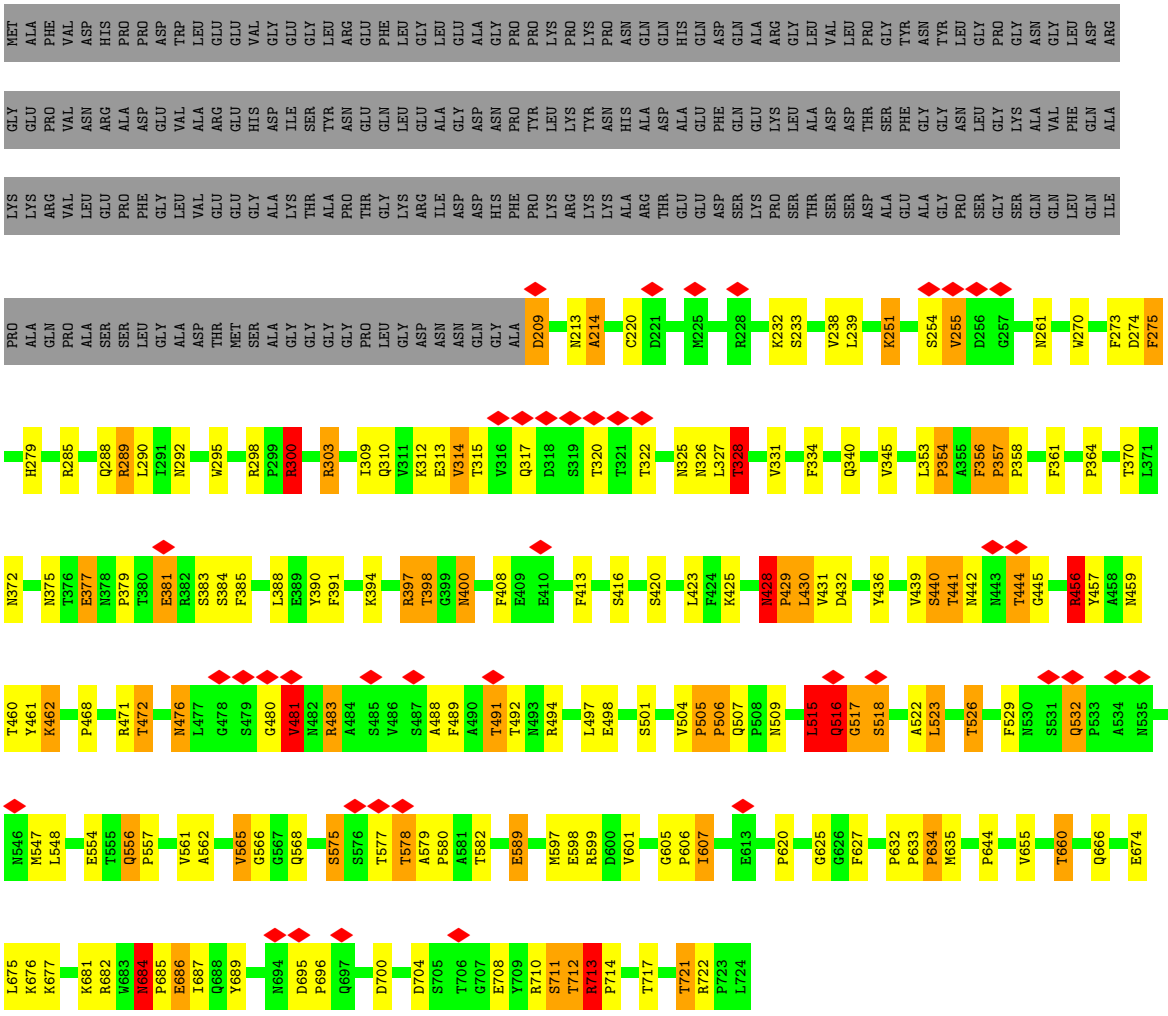




• Molecule 1: Capsid protein

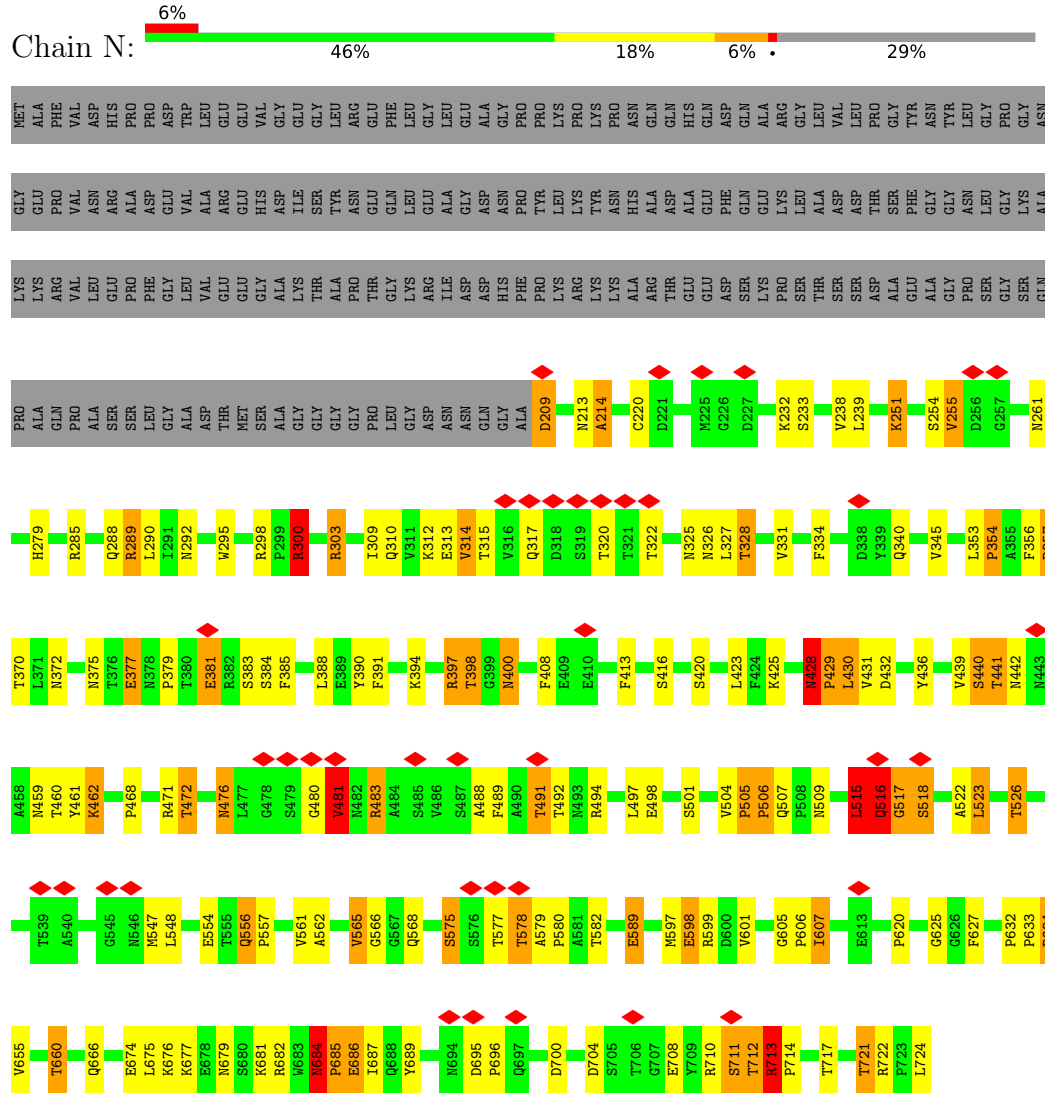
Chain M:





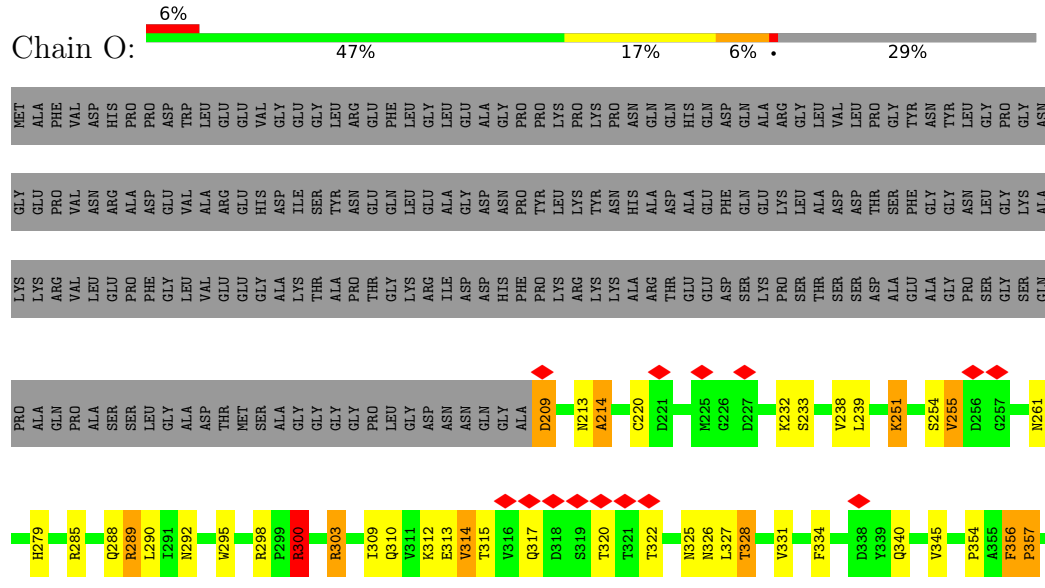
• Molecule 1: Capsid protein

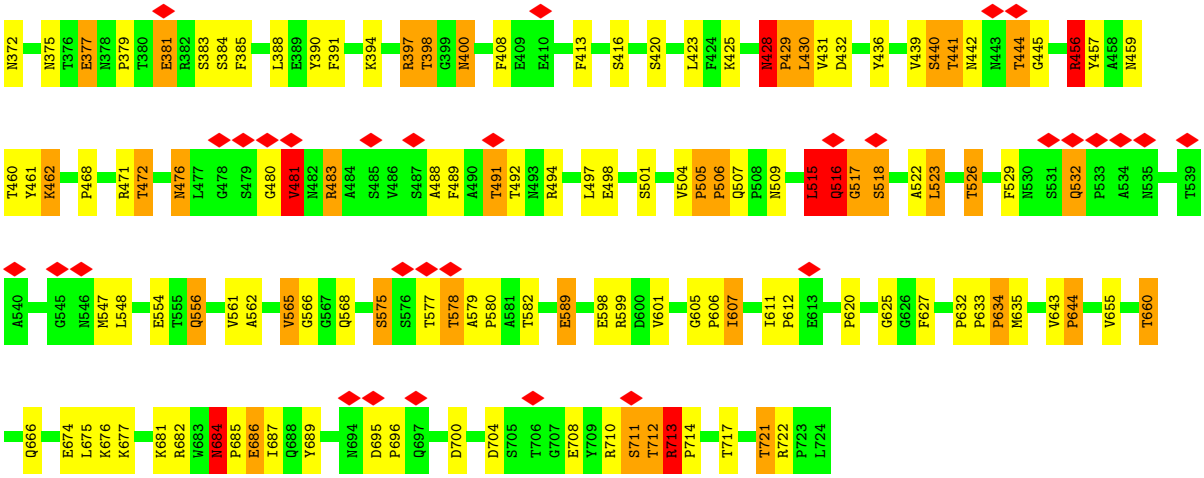
Chain N:



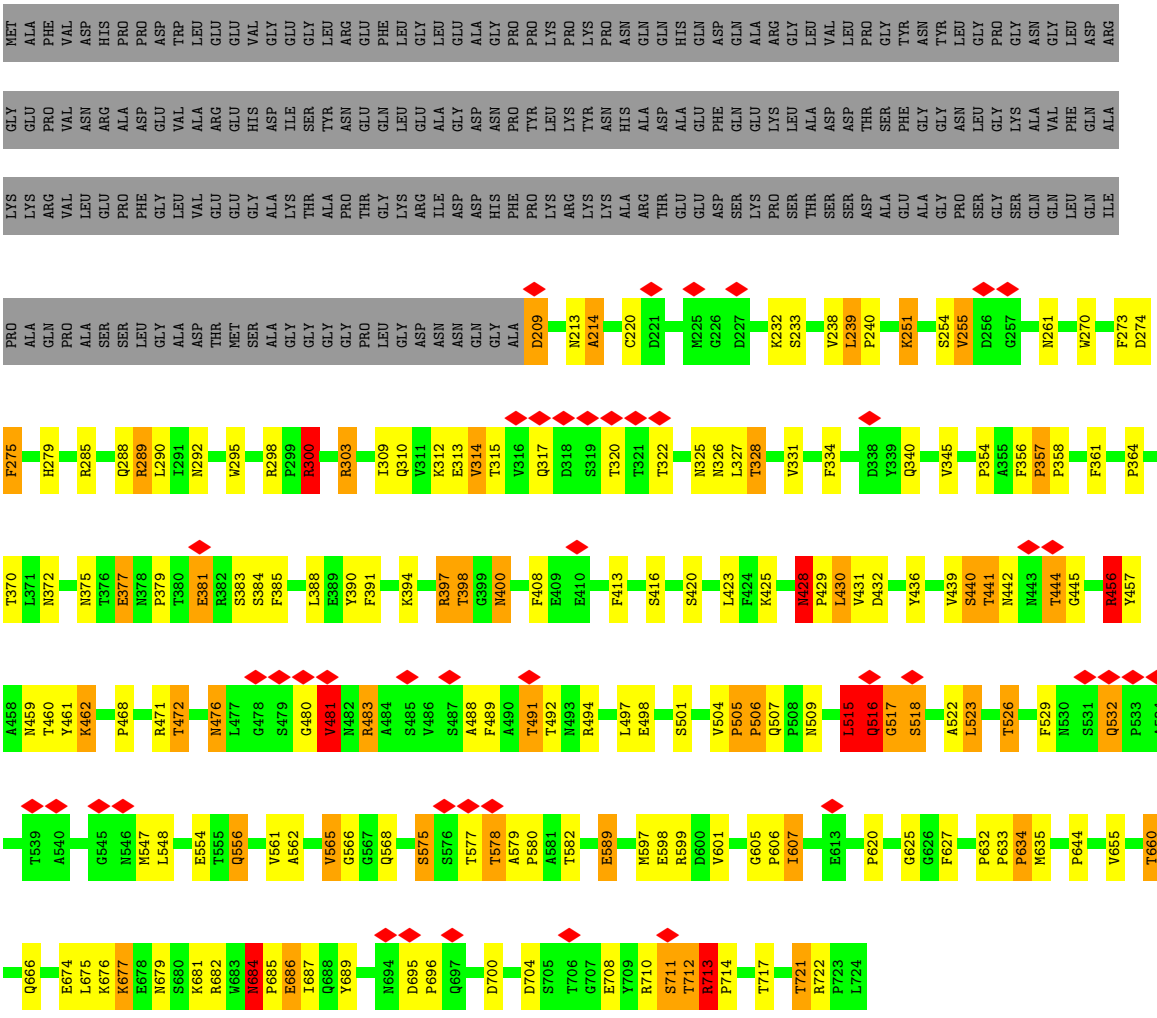
• Molecule 1: Capsid protein

Chain O:



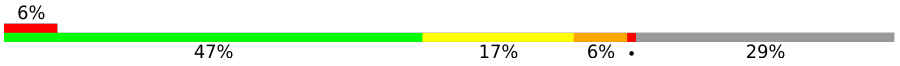


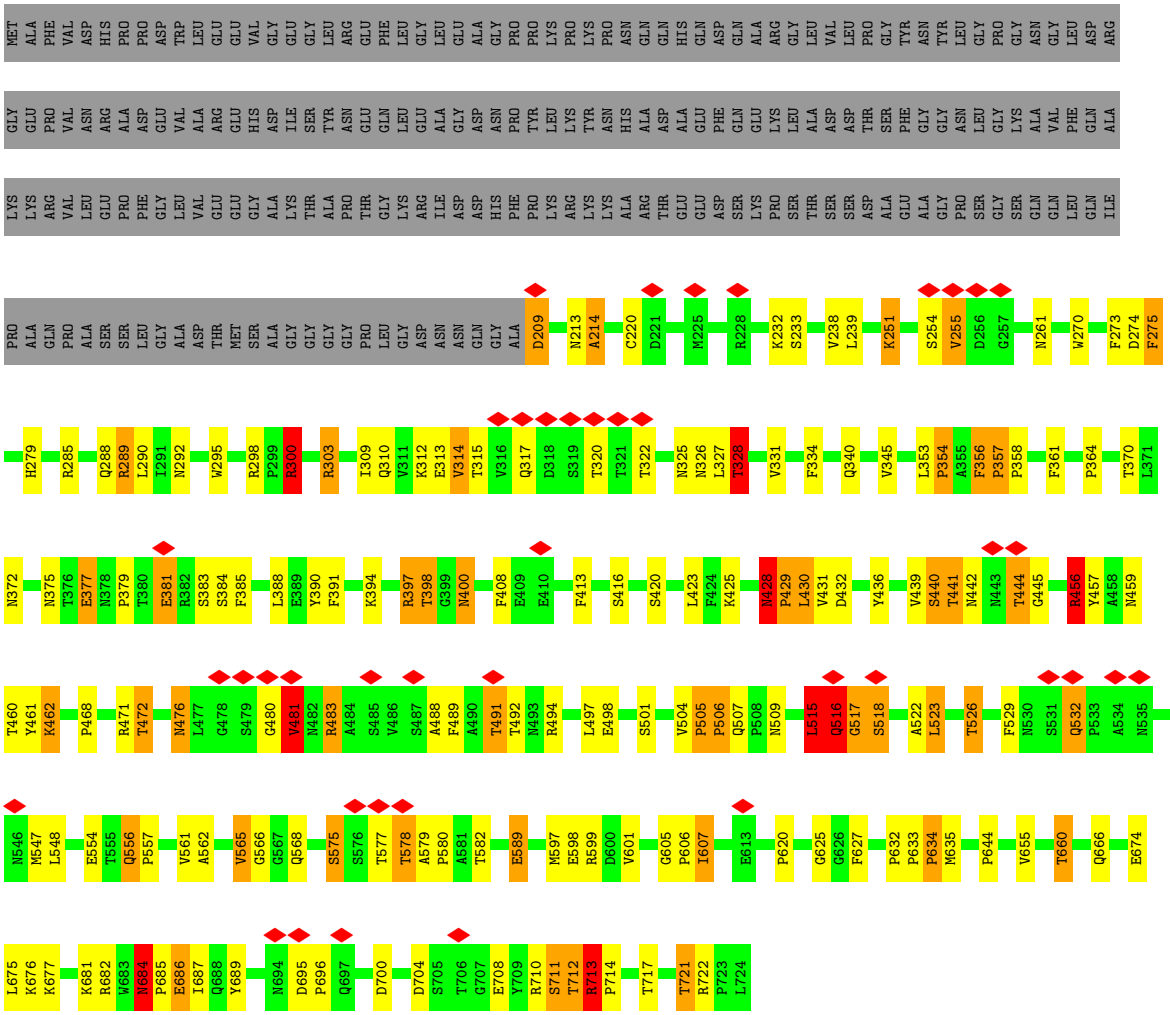
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

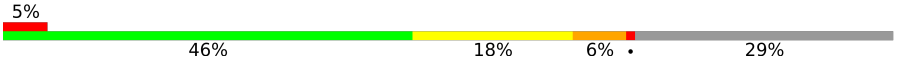
Chain Q:

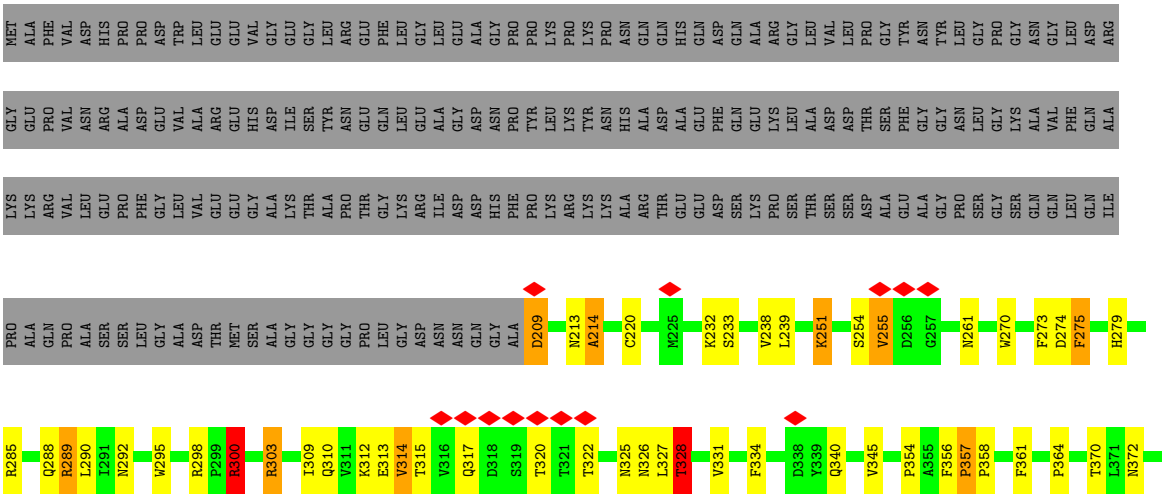


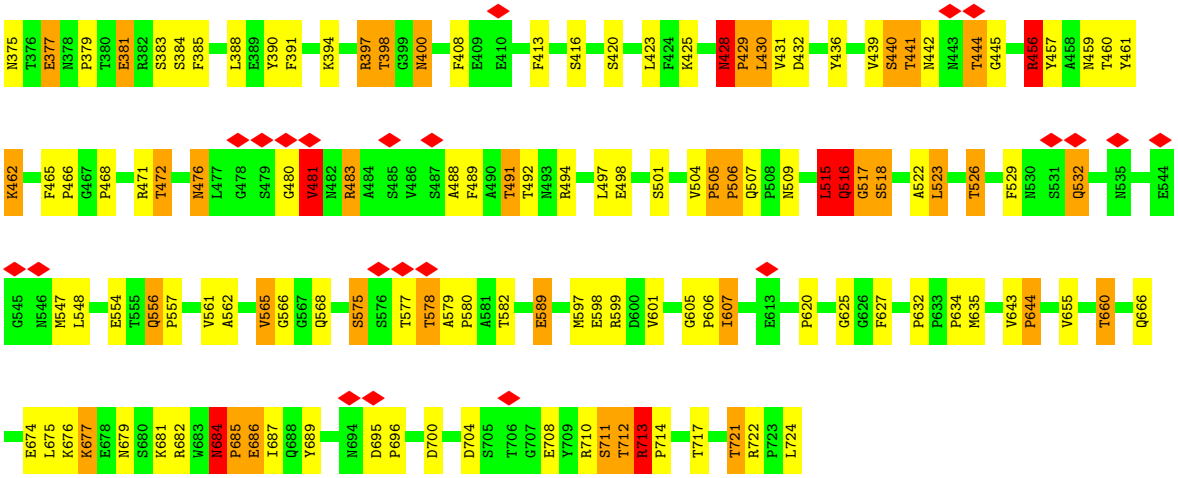


• Molecule 1: Capsid protein

Chain R:

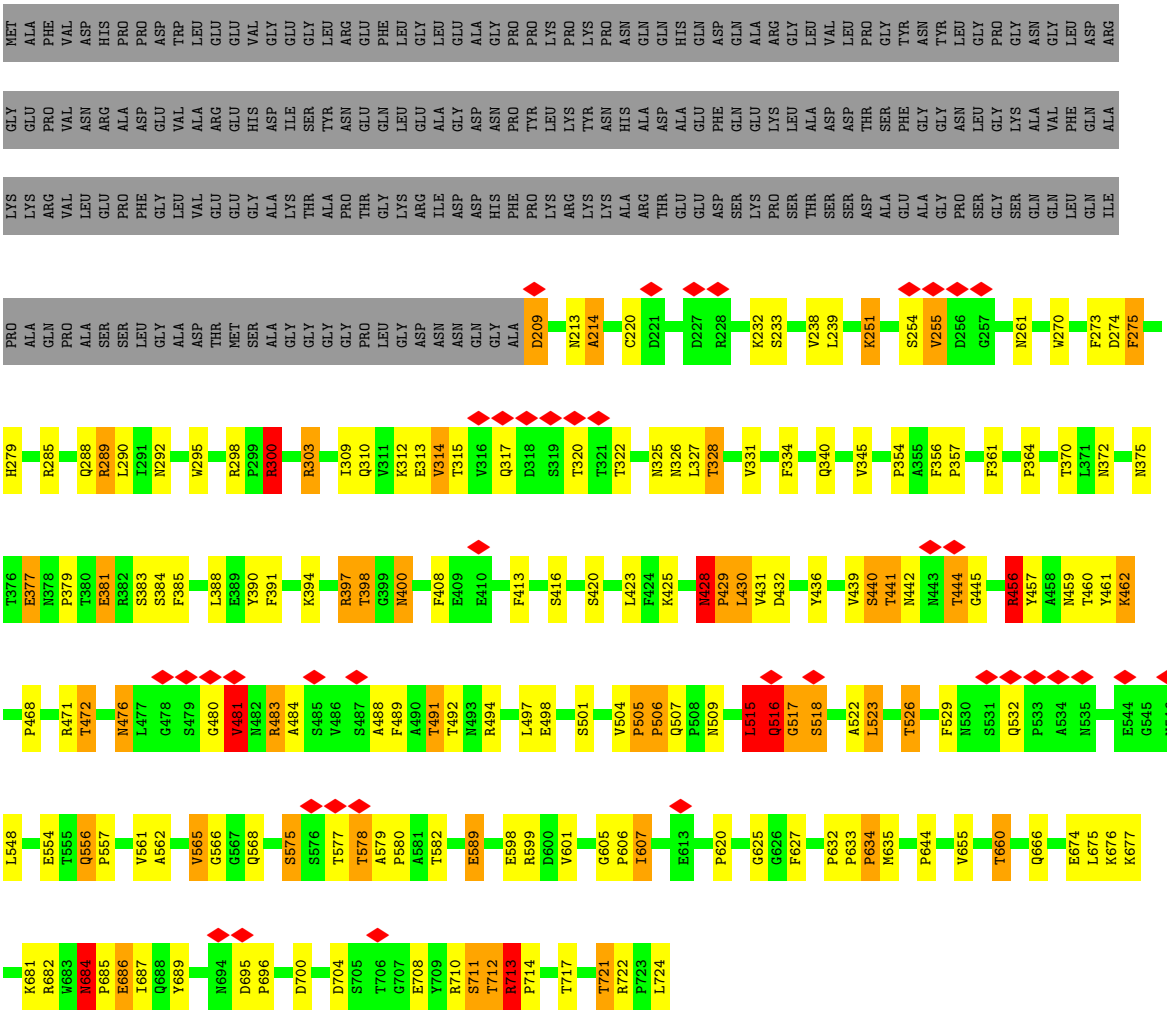






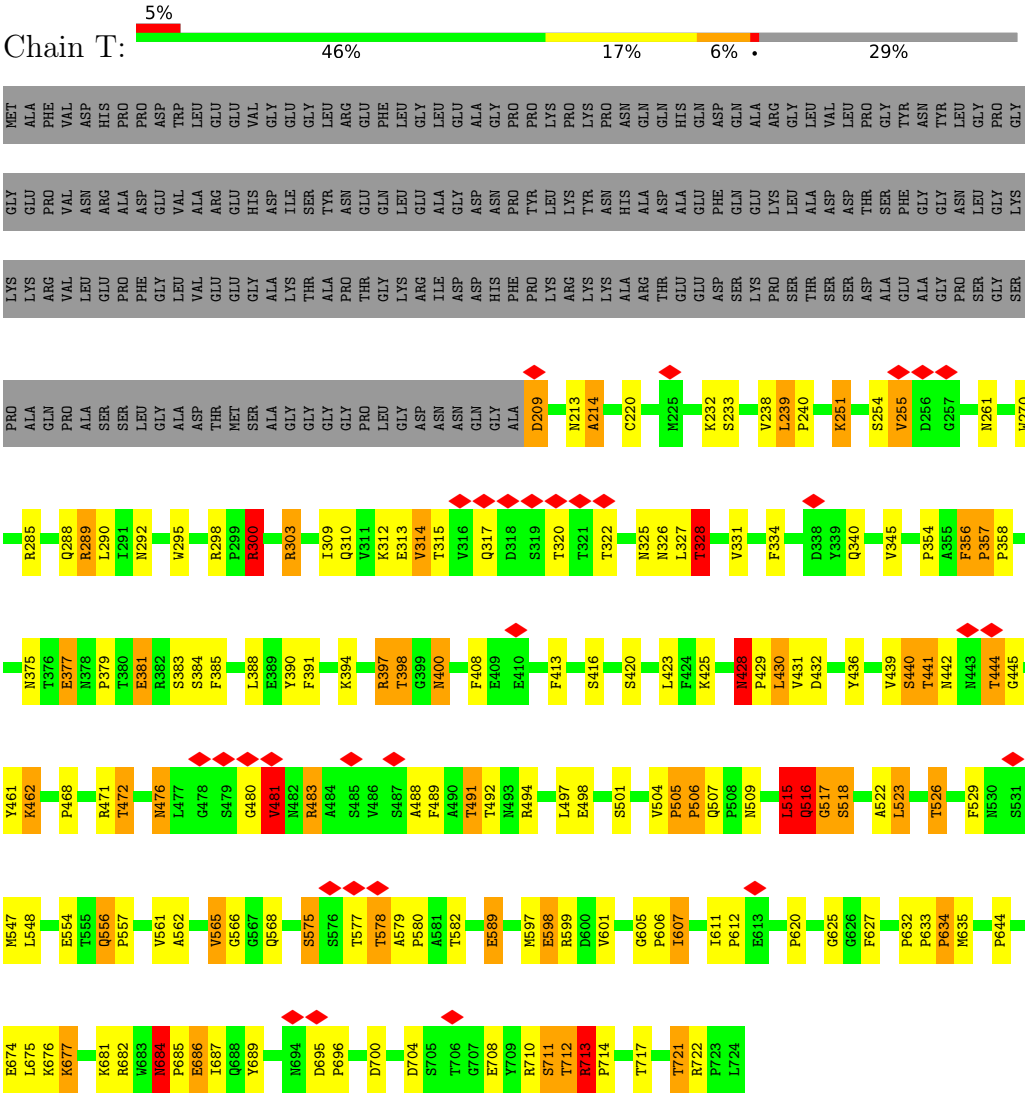
• Molecule 1: Capsid protein

Chain S:



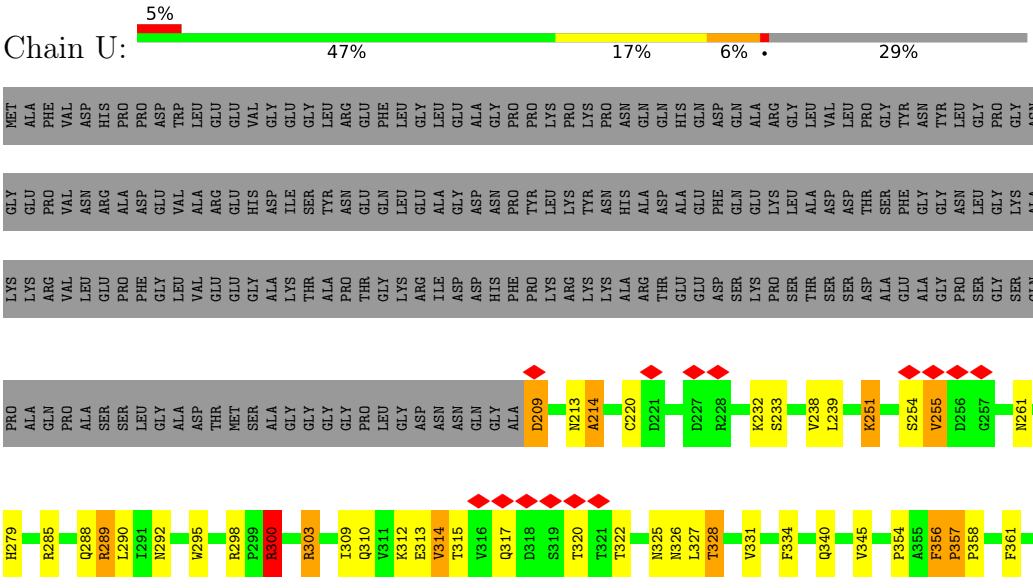
• Molecule 1: Capsid protein

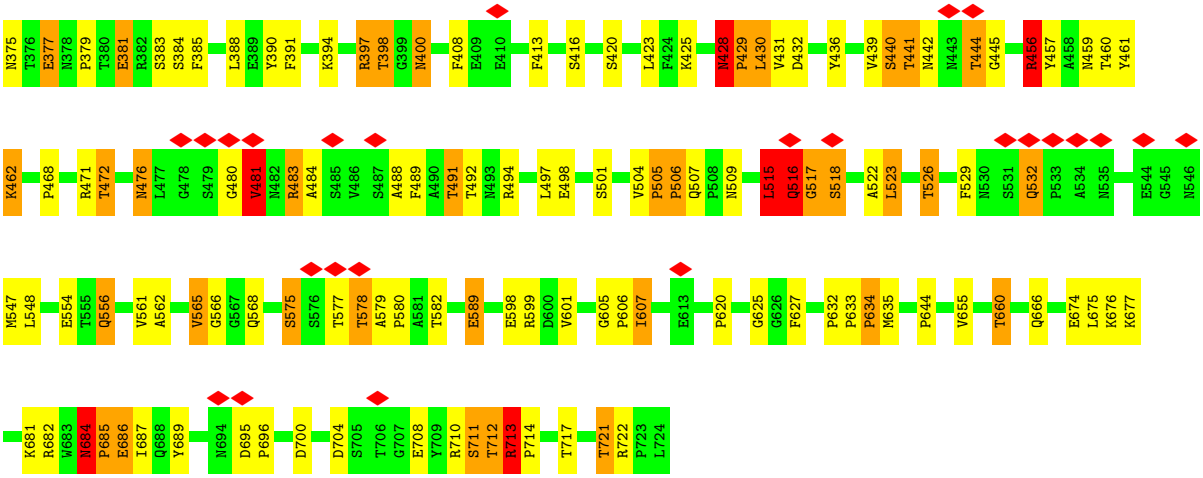
Chain T:



• Molecule 1: Capsid protein

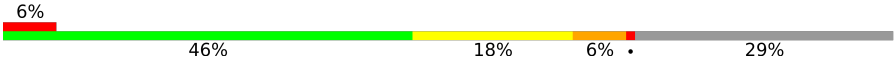
Chain U:

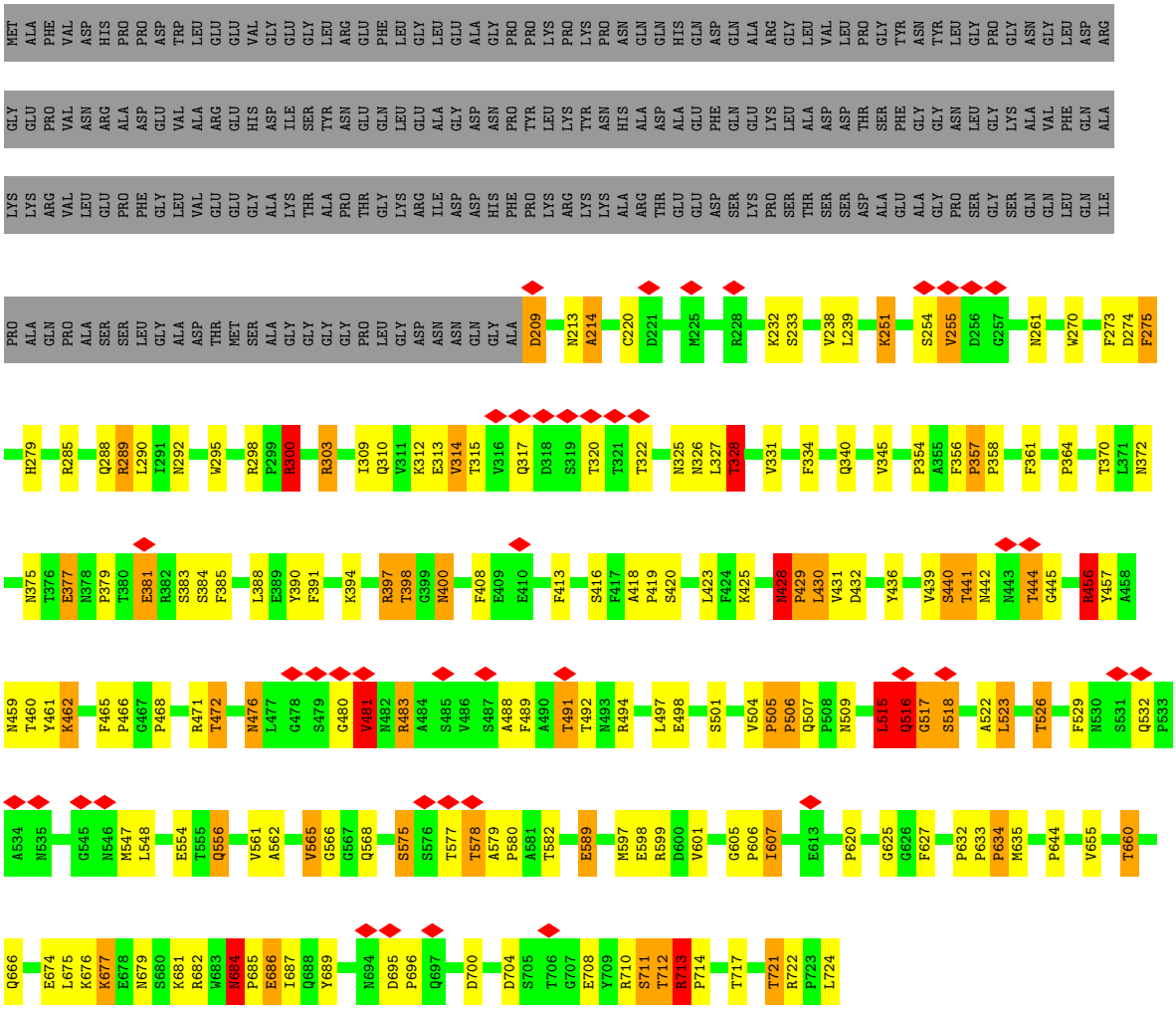




• Molecule 1: Capsid protein

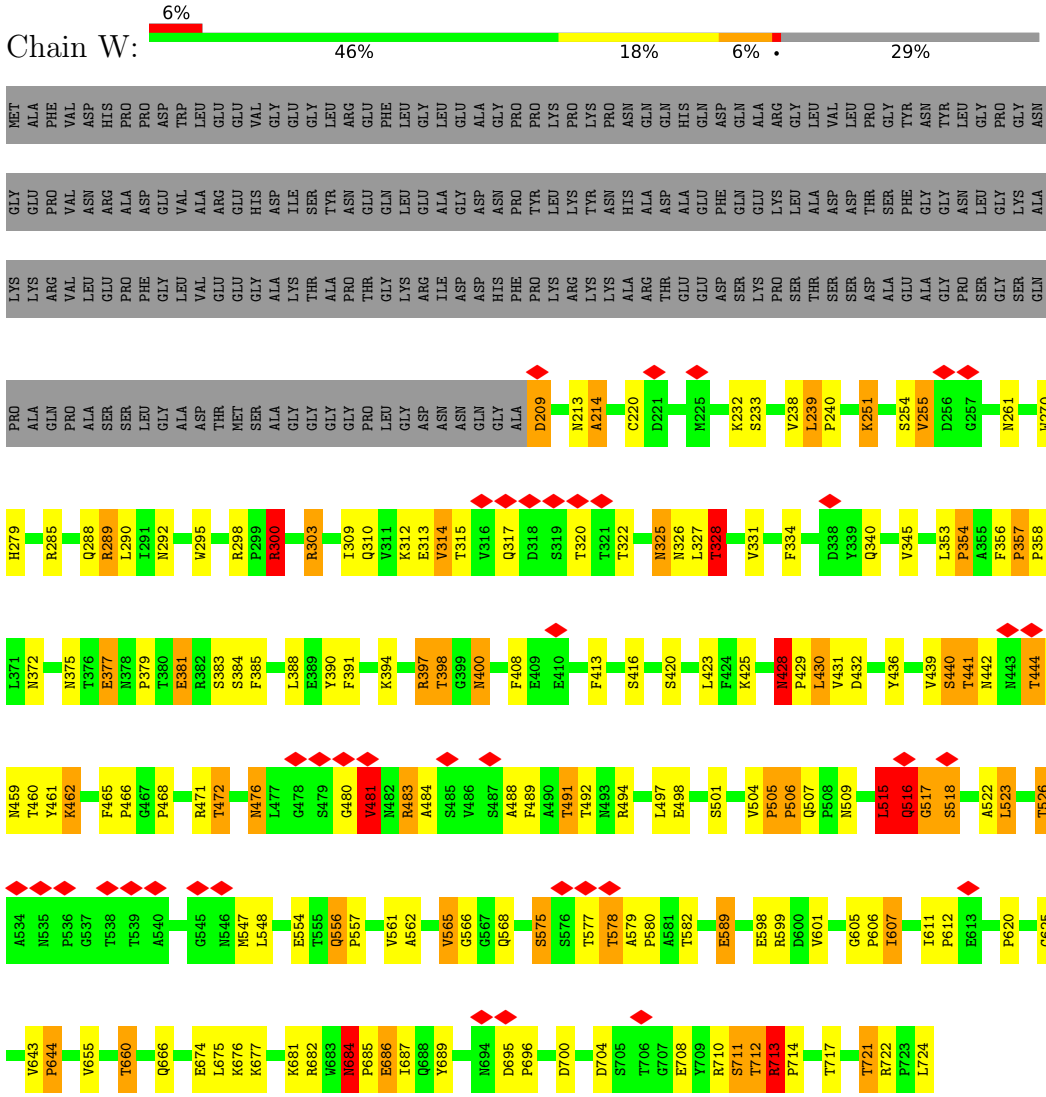
Chain V:





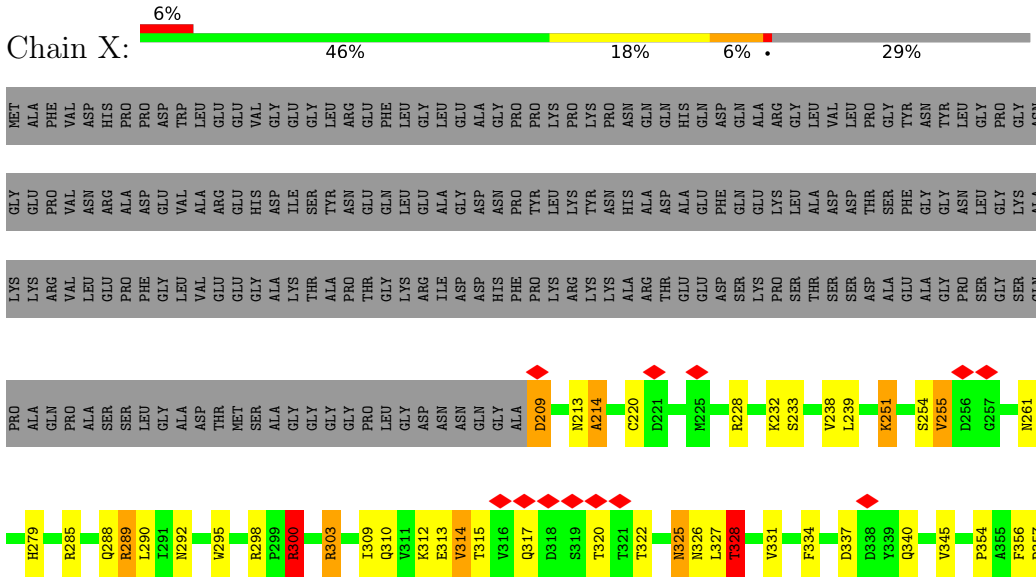
• Molecule 1: Capsid protein

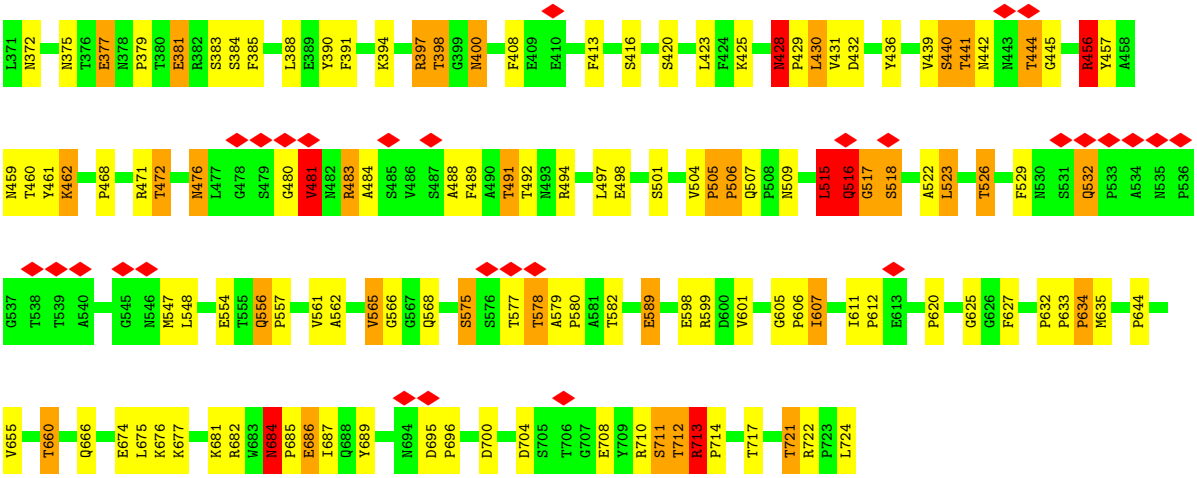
Chain W:



• Molecule 1: Capsid protein

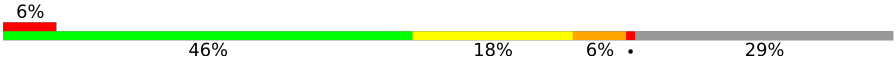
Chain X:

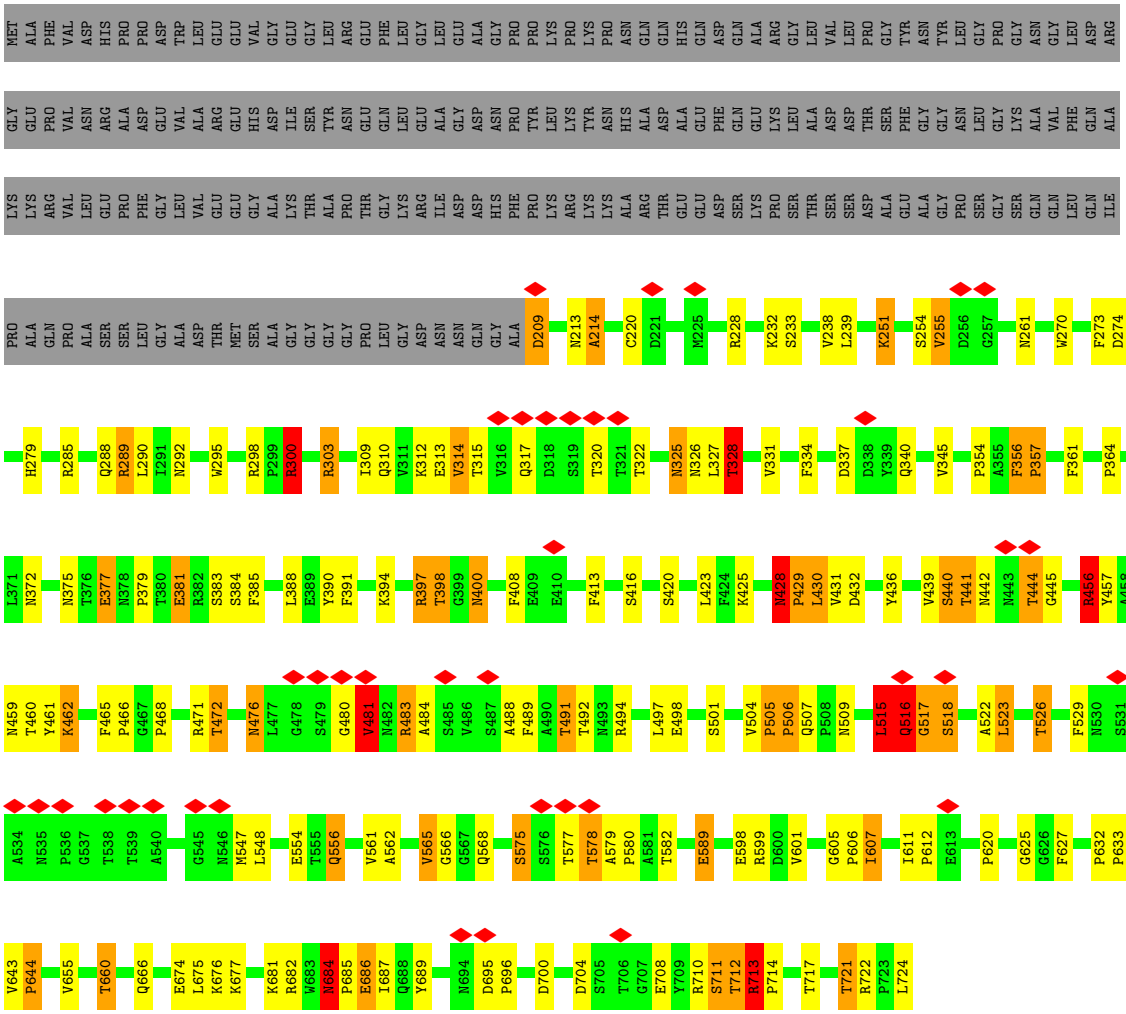




• Molecule 1: Capsid protein

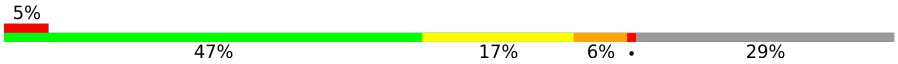
Chain Y:

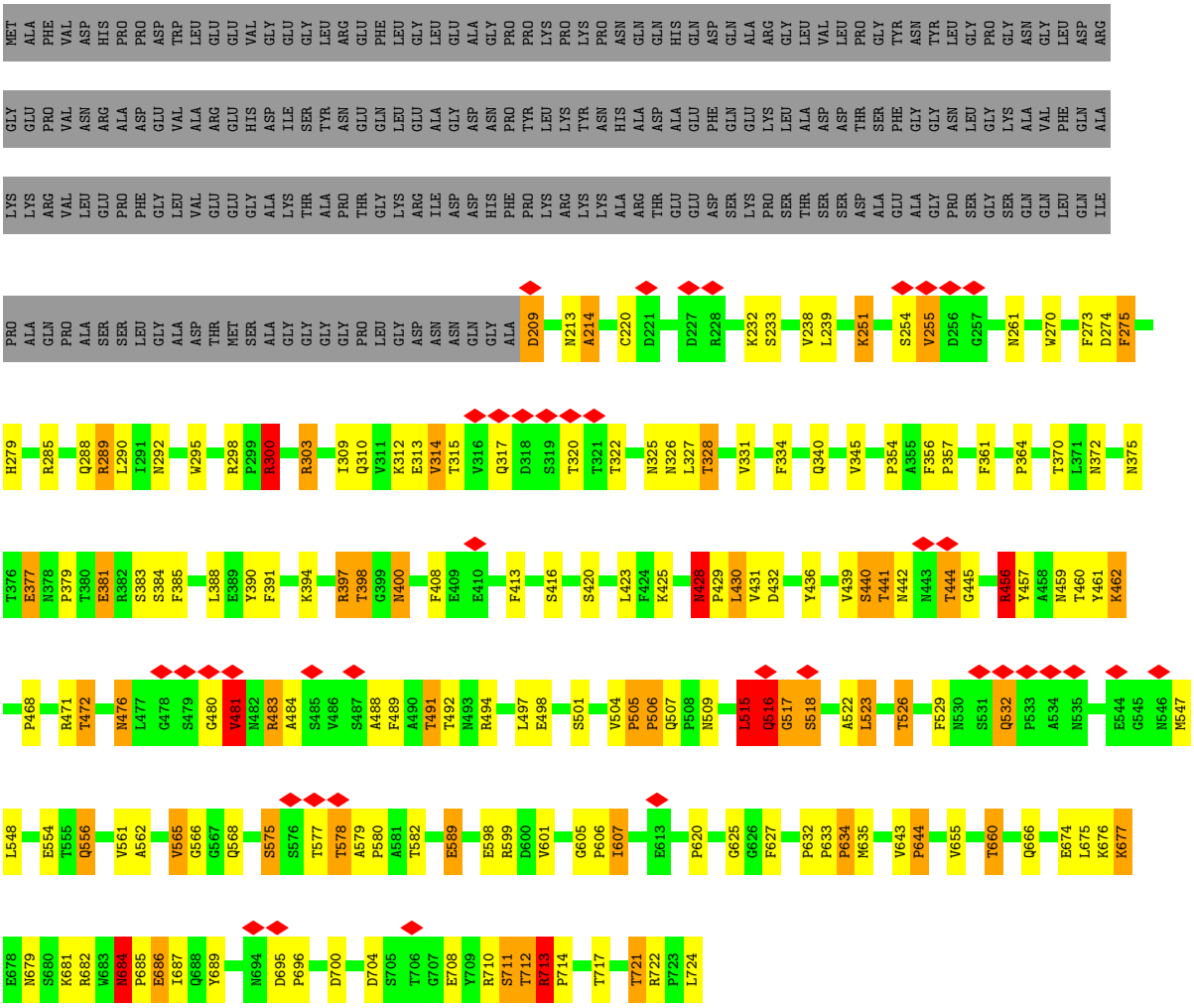




• Molecule 1: Capsid protein

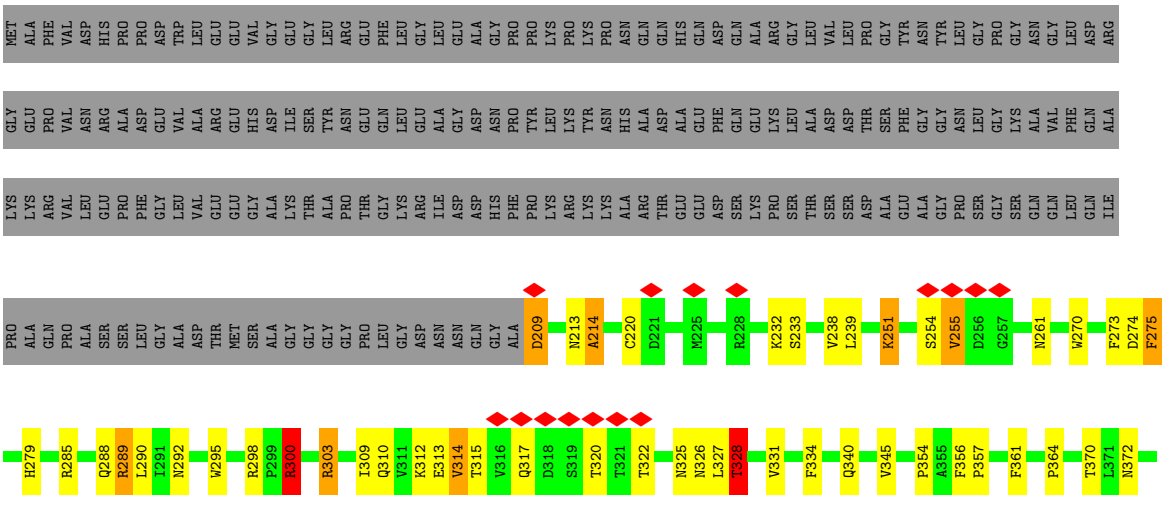
Chain Z:

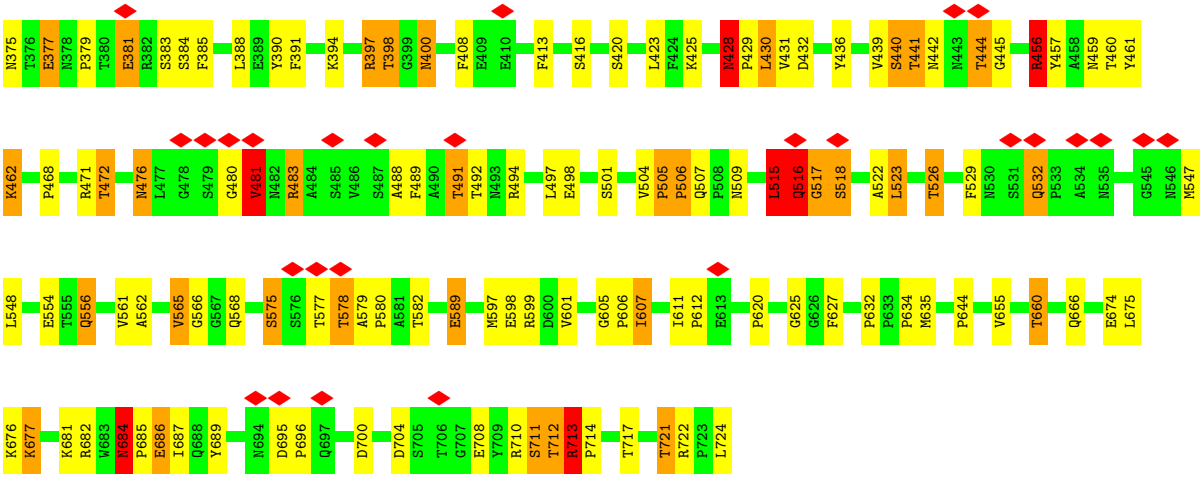




• Molecule 1: Capsid protein

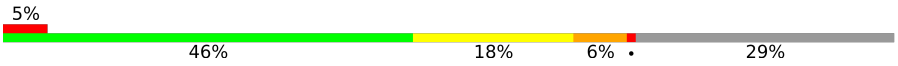
Chain a:

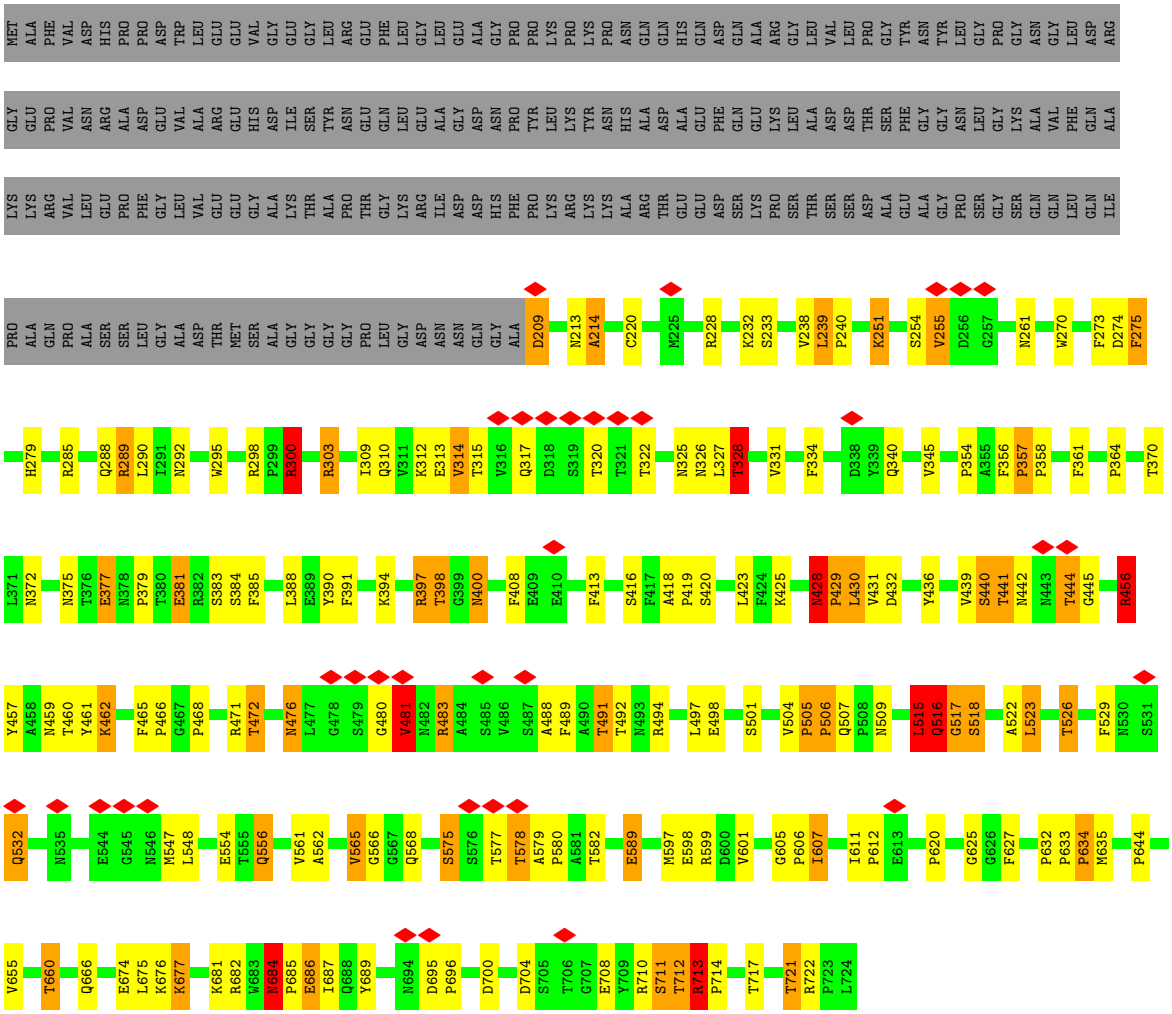




• Molecule 1: Capsid protein

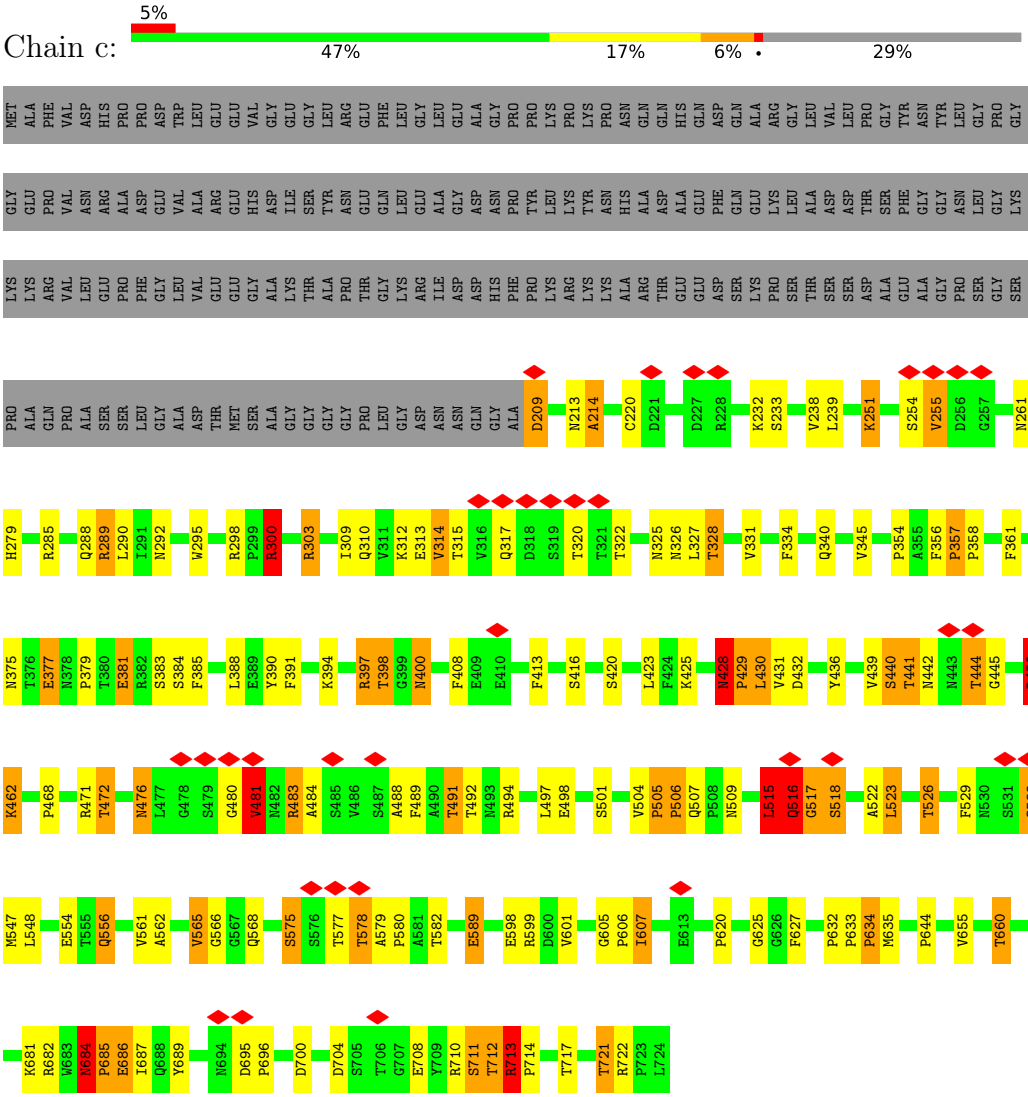
Chain b:





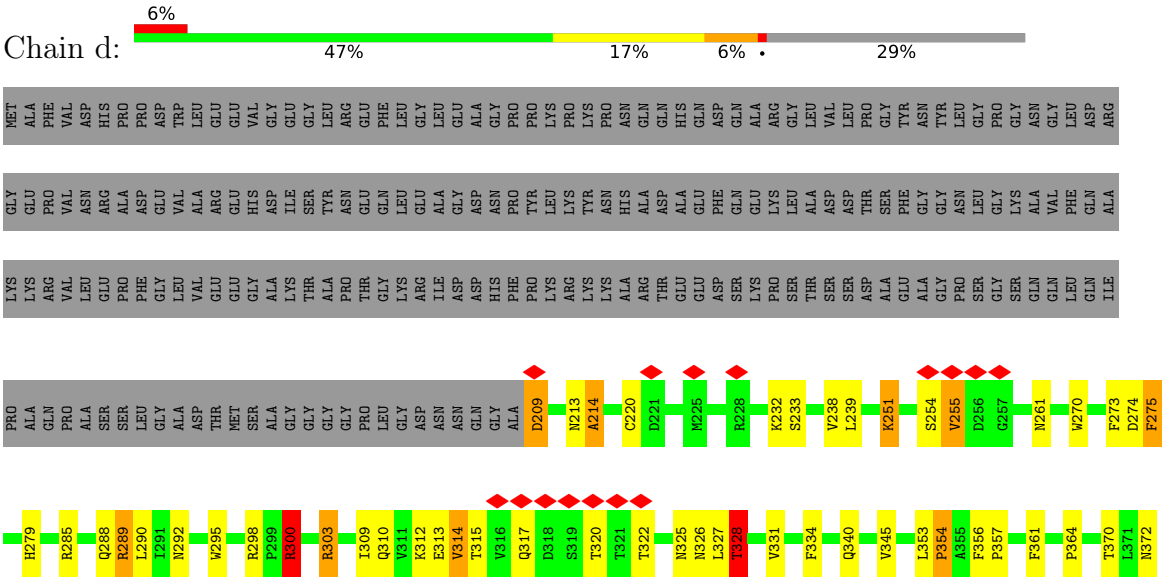
• Molecule 1: Capsid protein

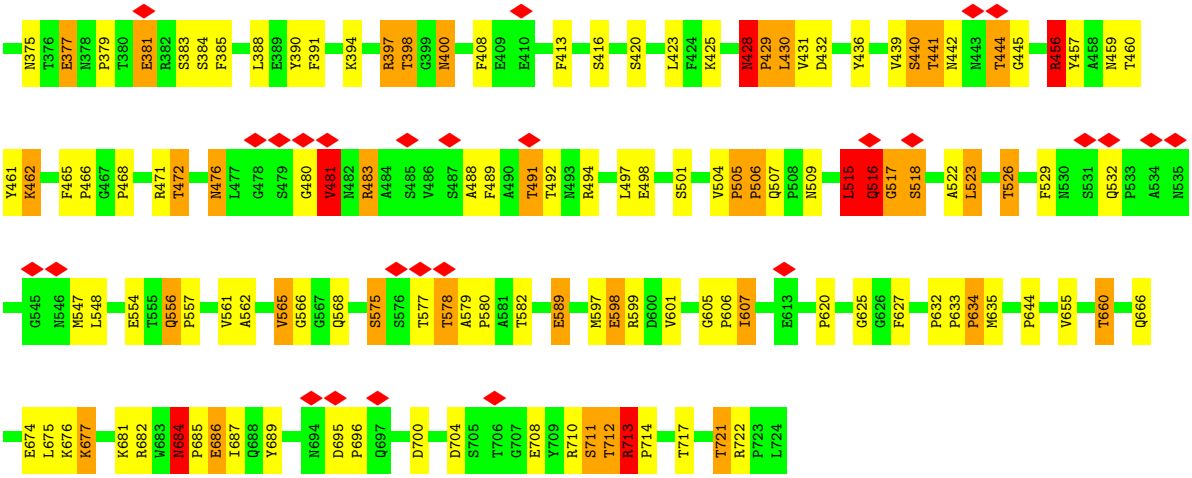
Chain c:



• Molecule 1: Capsid protein

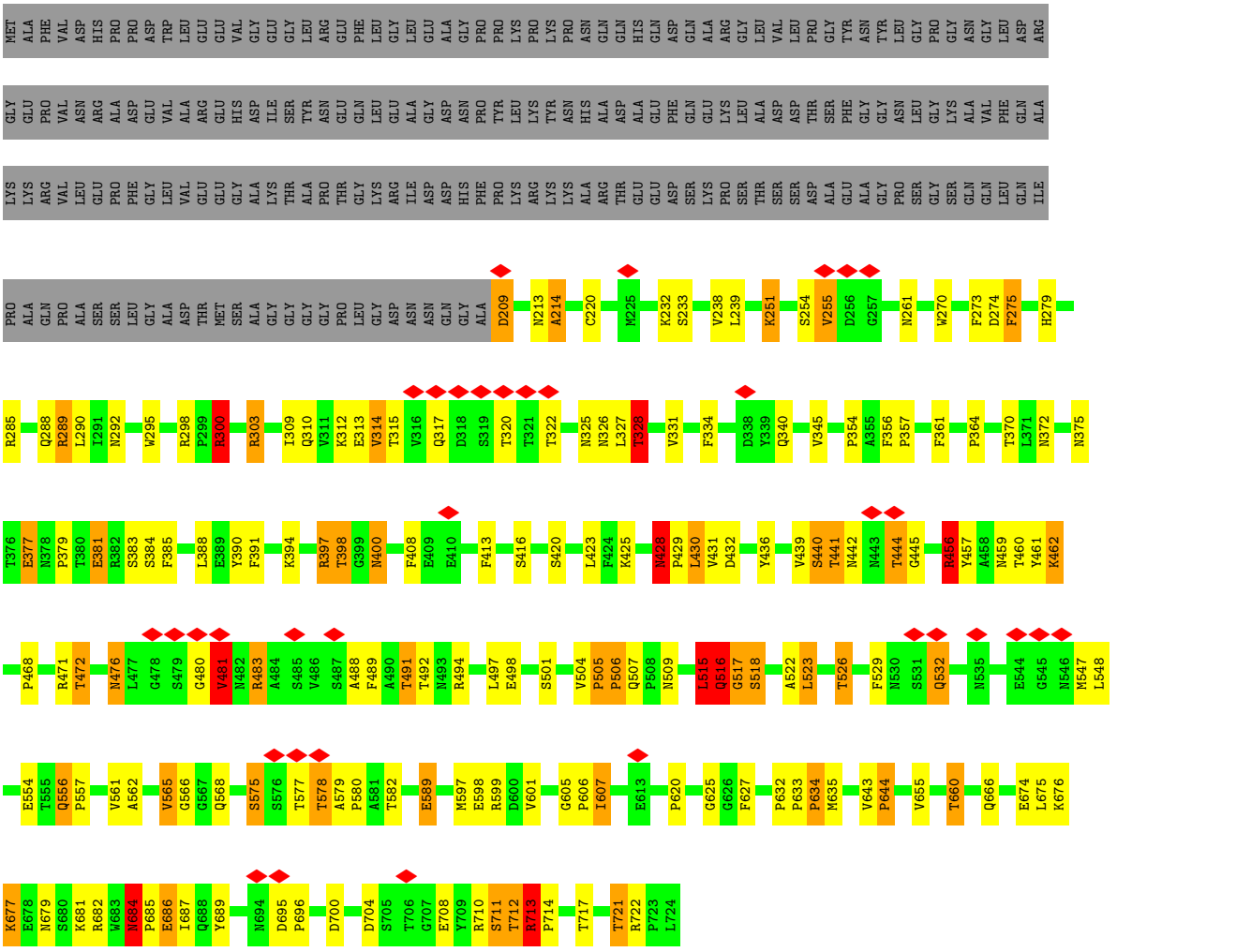
Chain d:





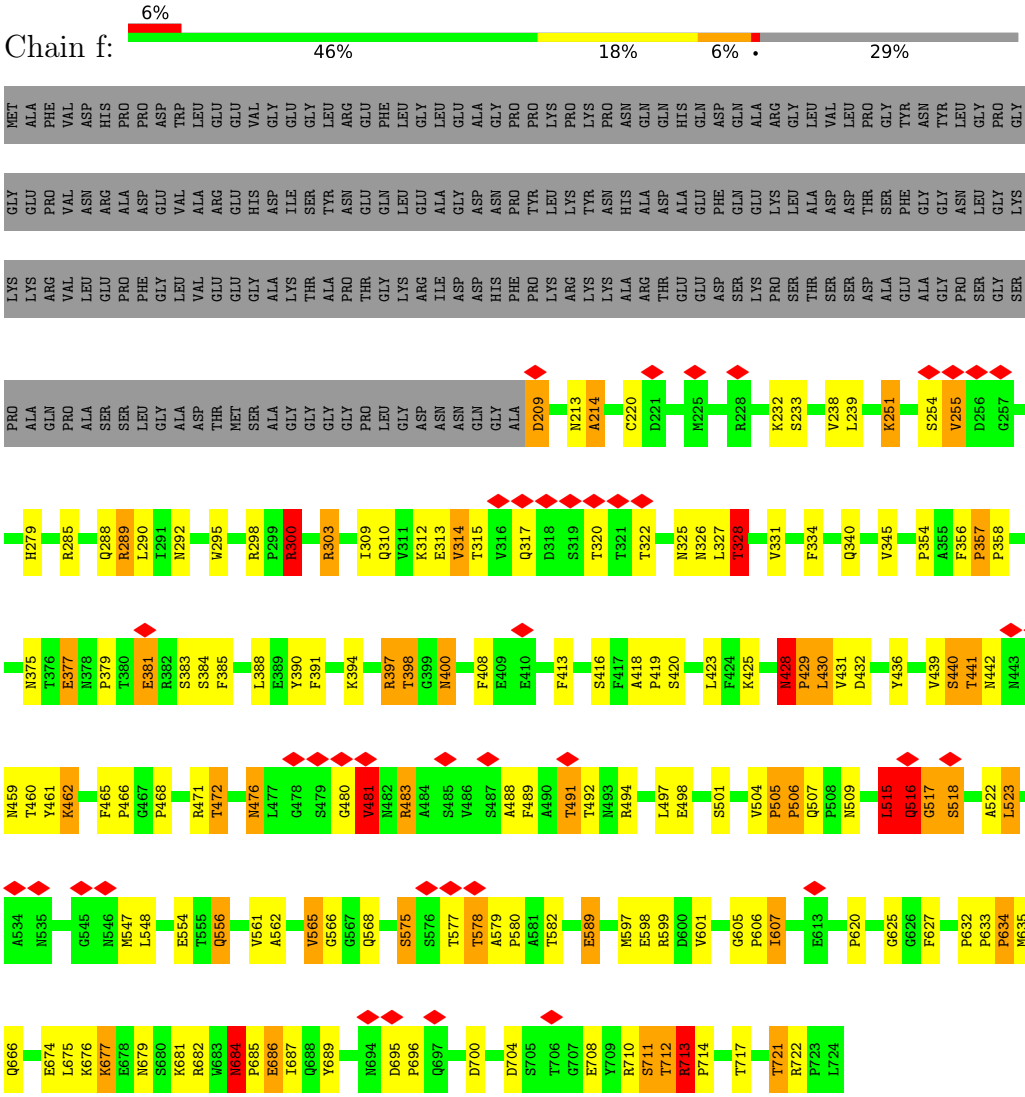
• Molecule 1: Capsid protein

Chain e:



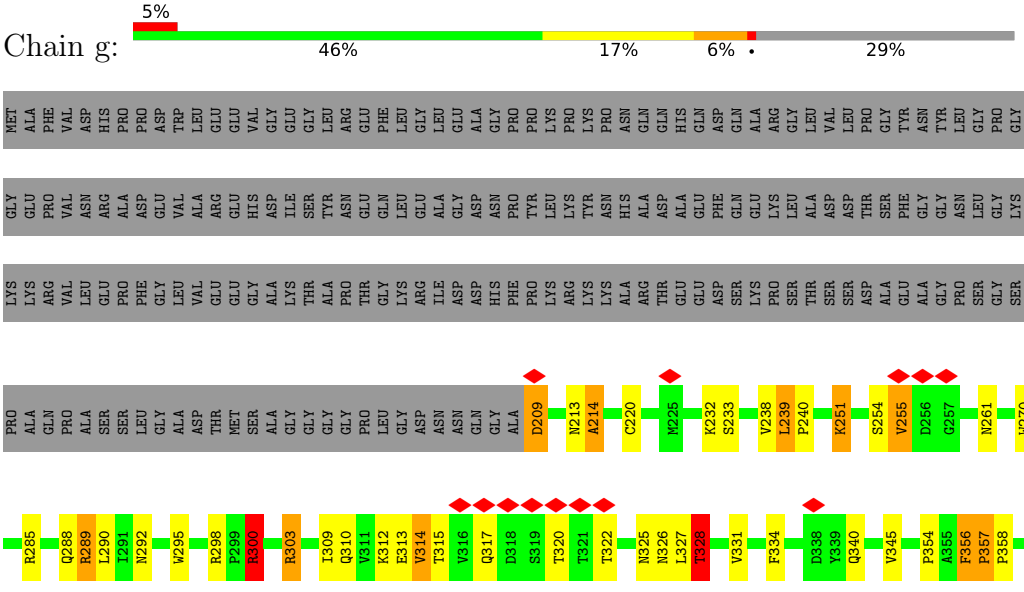
• Molecule 1: Capsid protein

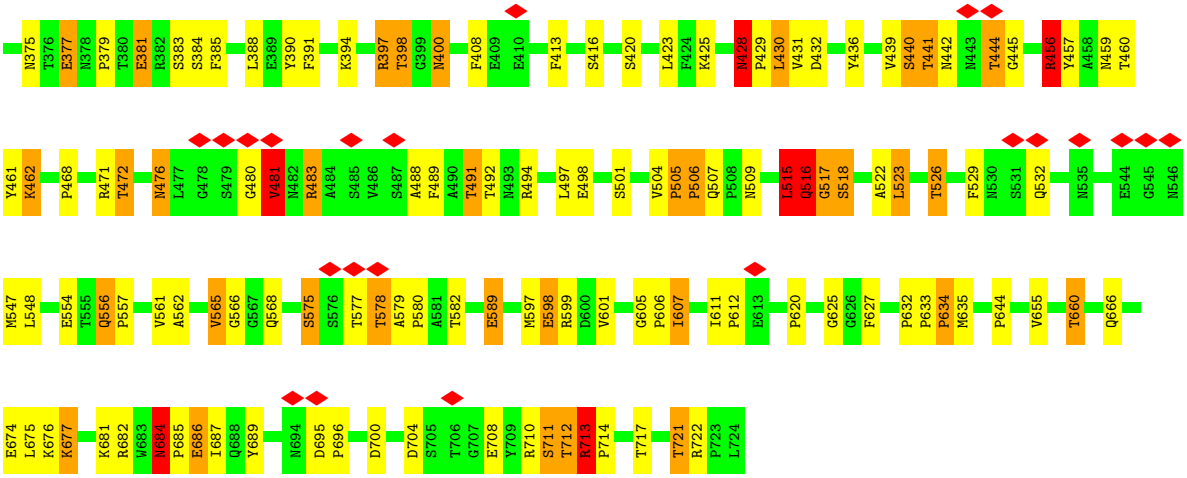
Chain f:



• Molecule 1: Capsid protein

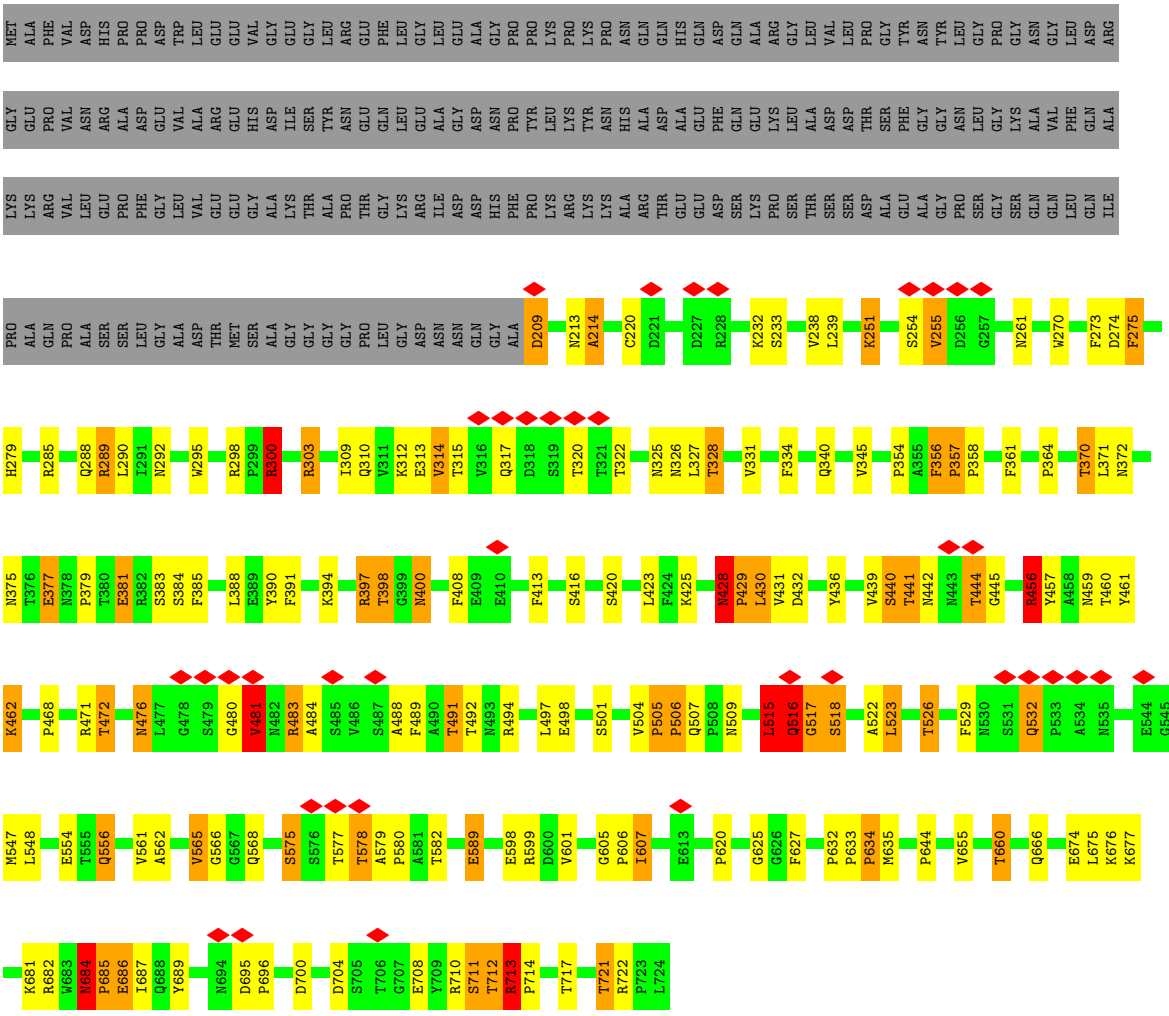
Chain g:





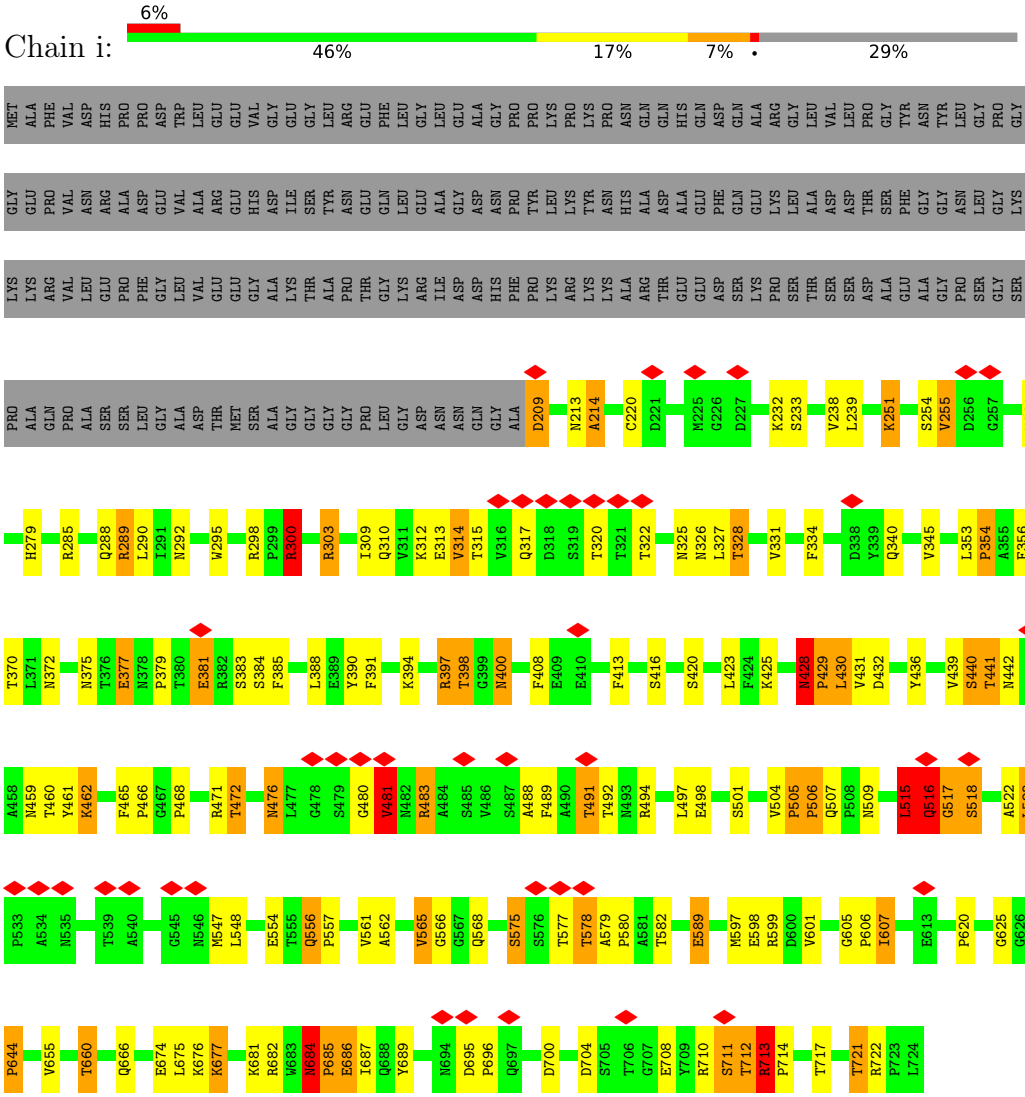
• Molecule 1: Capsid protein

Chain h:



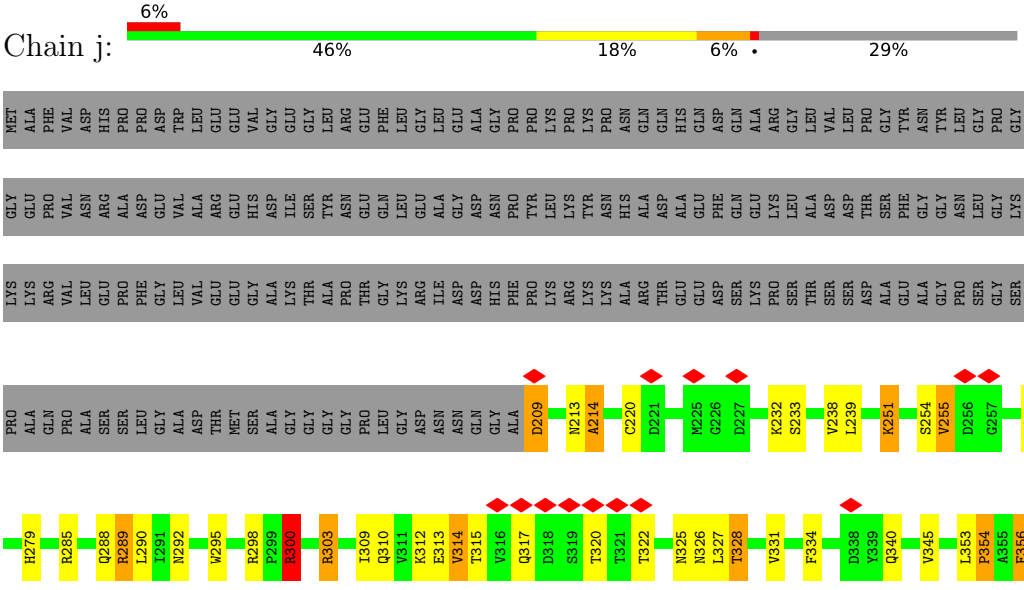
• Molecule 1: Capsid protein

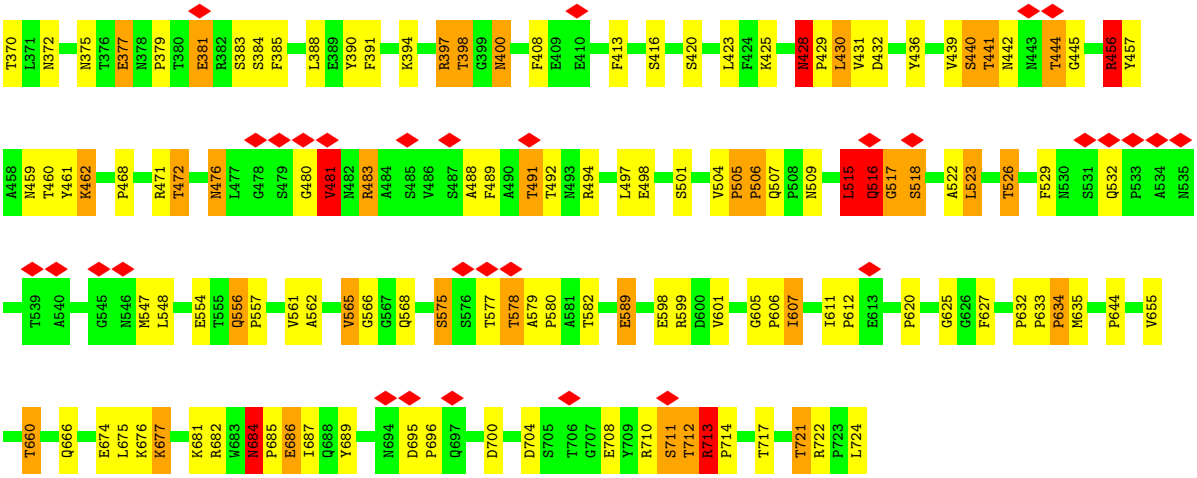
Chain i:



• Molecule 1: Capsid protein

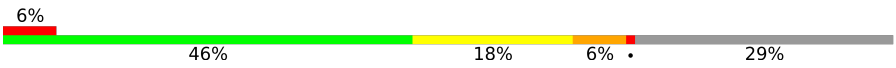
Chain j:

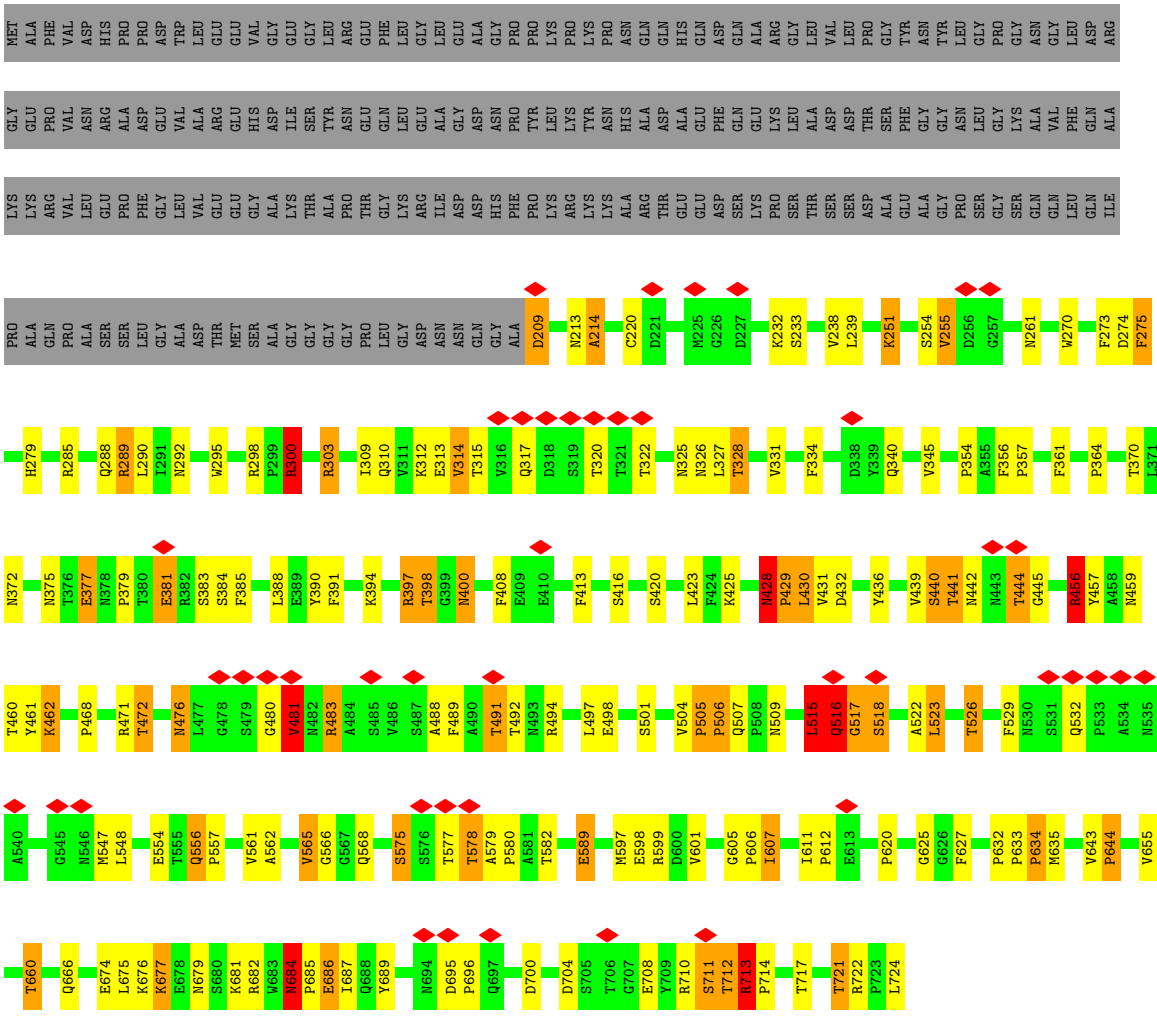




• Molecule 1: Capsid protein

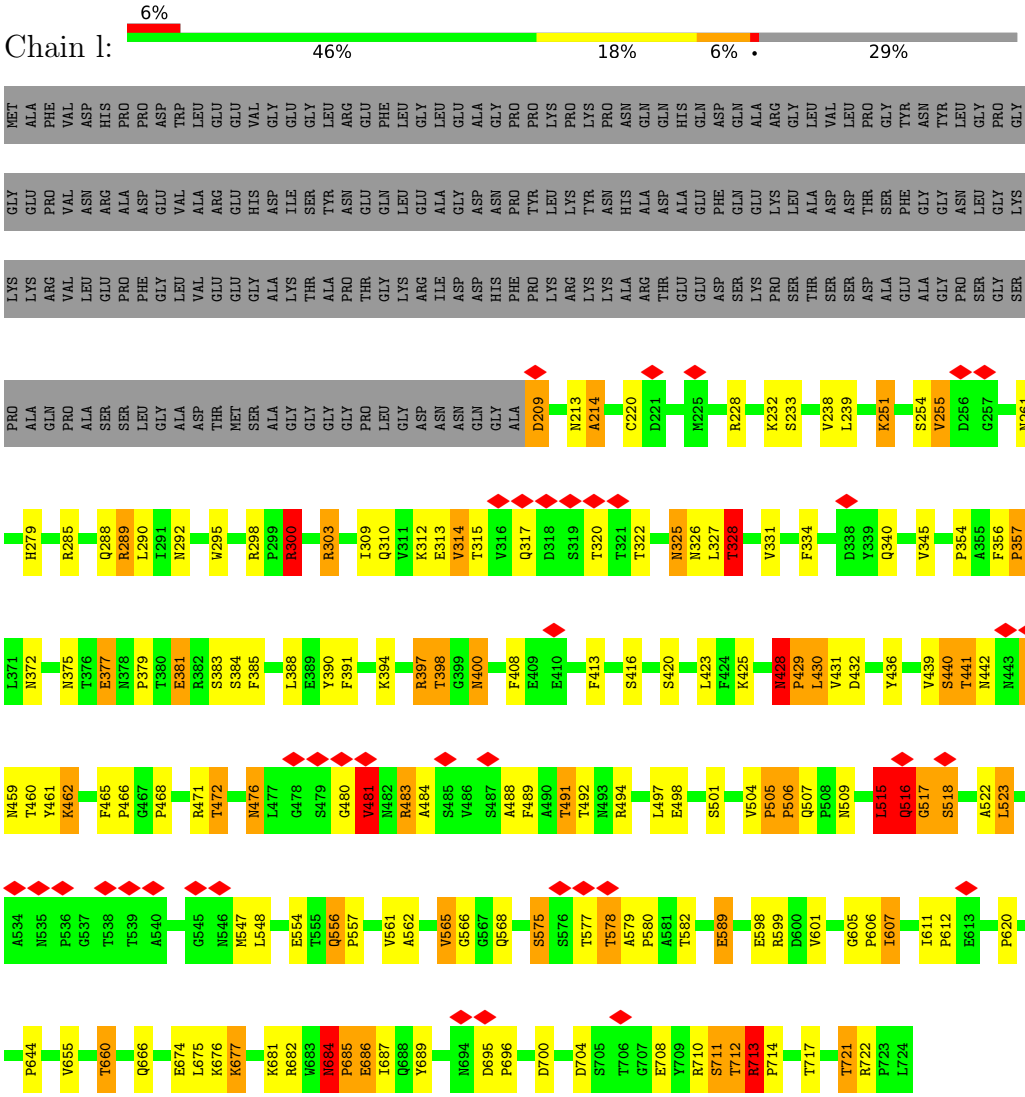
Chain k:





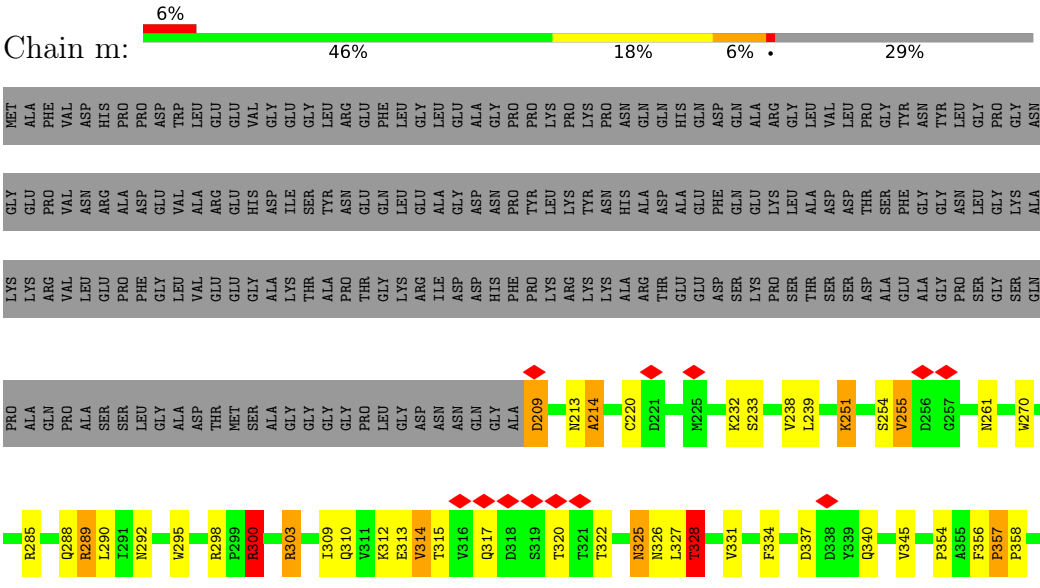
• Molecule 1: Capsid protein

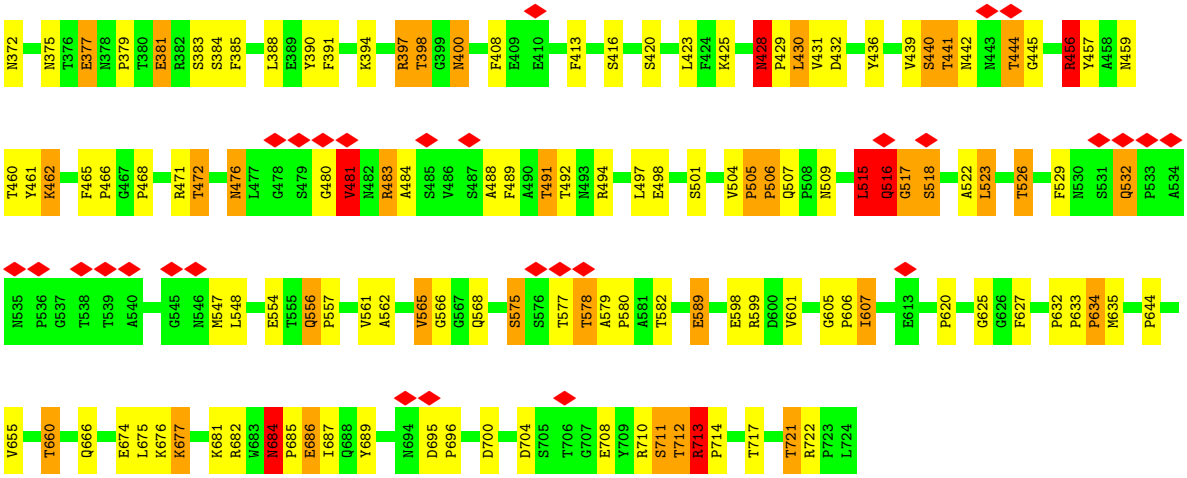
Chain l:



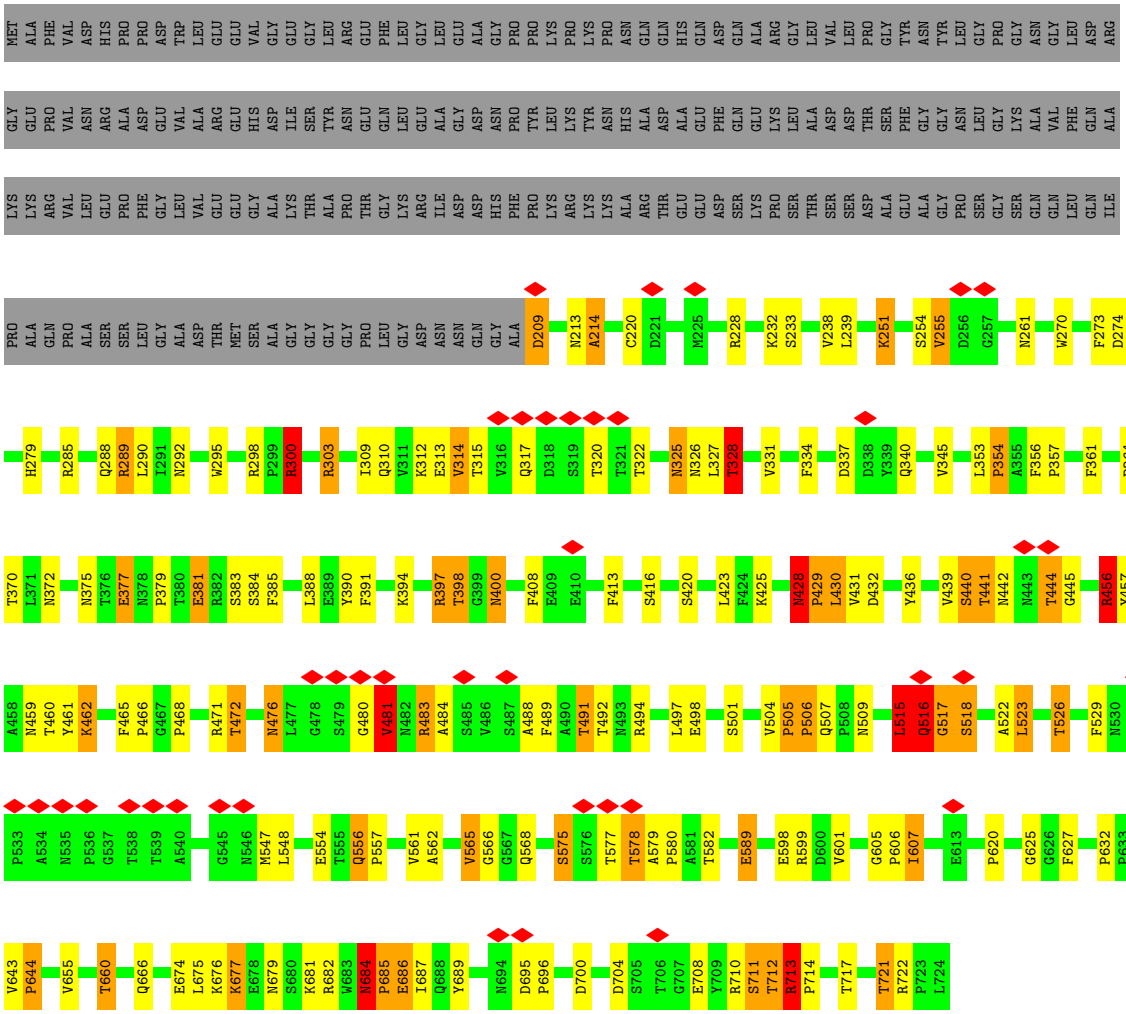
• Molecule 1: Capsid protein

Chain m:



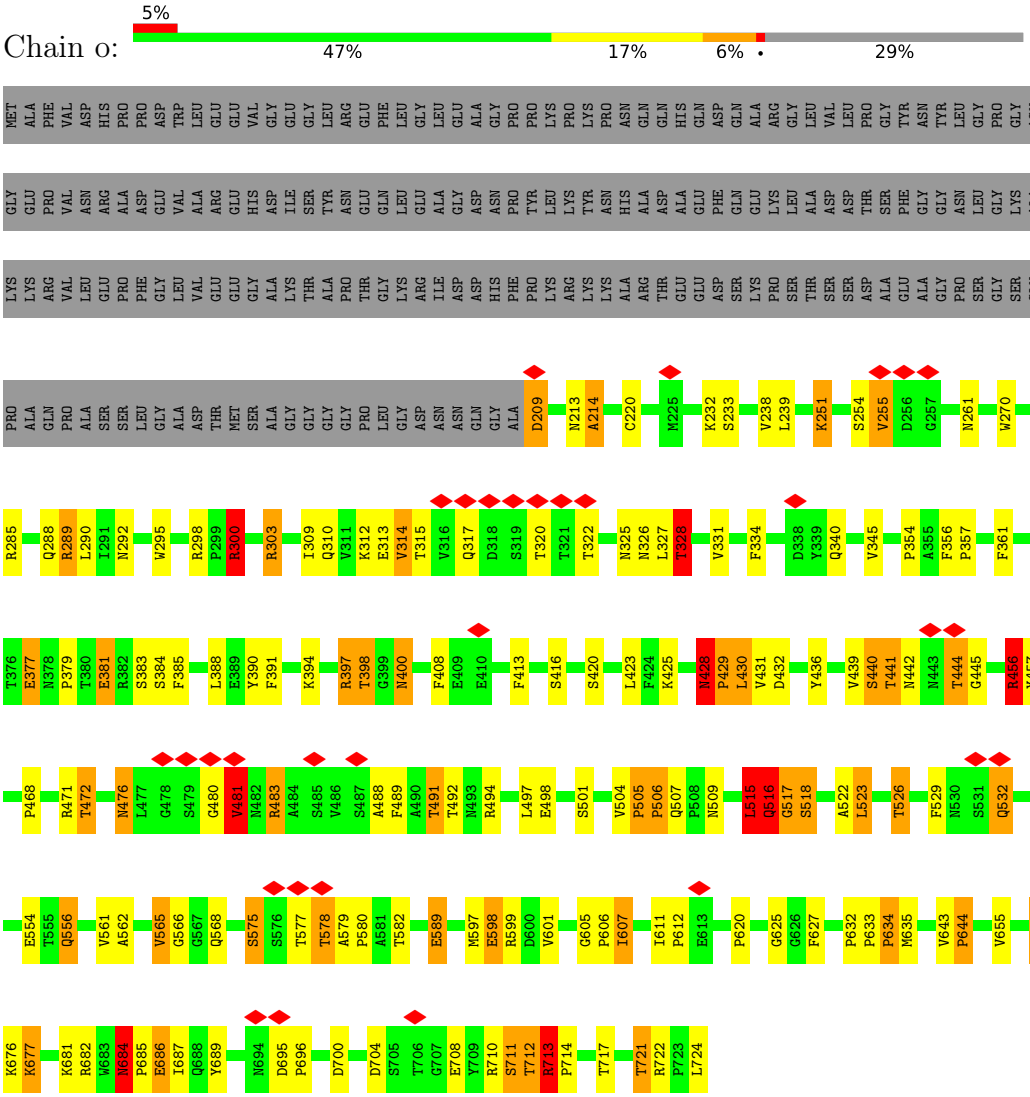


• Molecule 1: Capsid protein



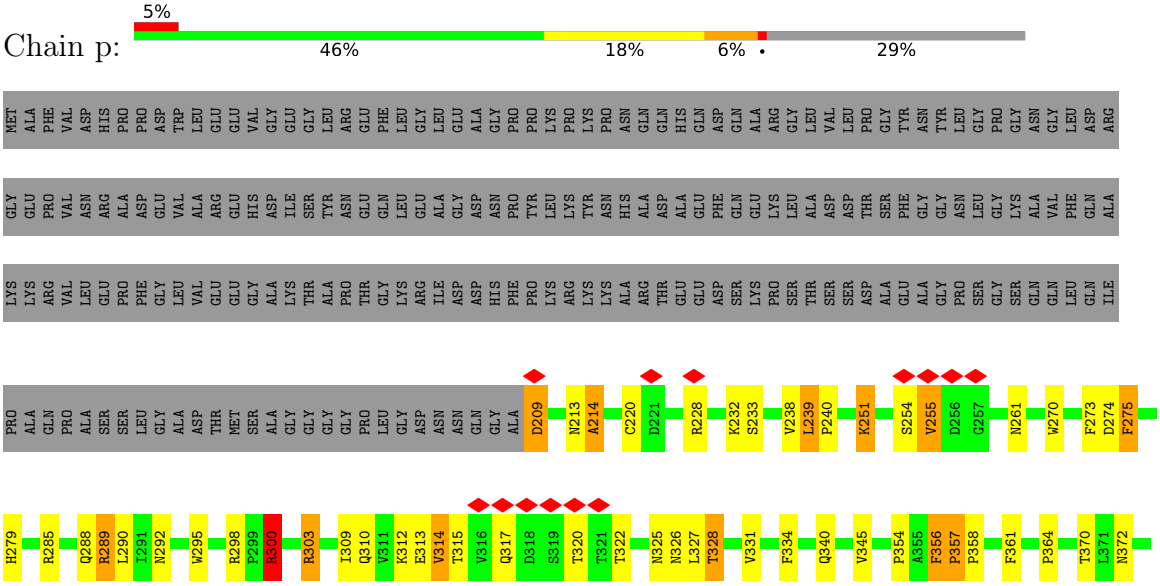
• Molecule 1: Capsid protein

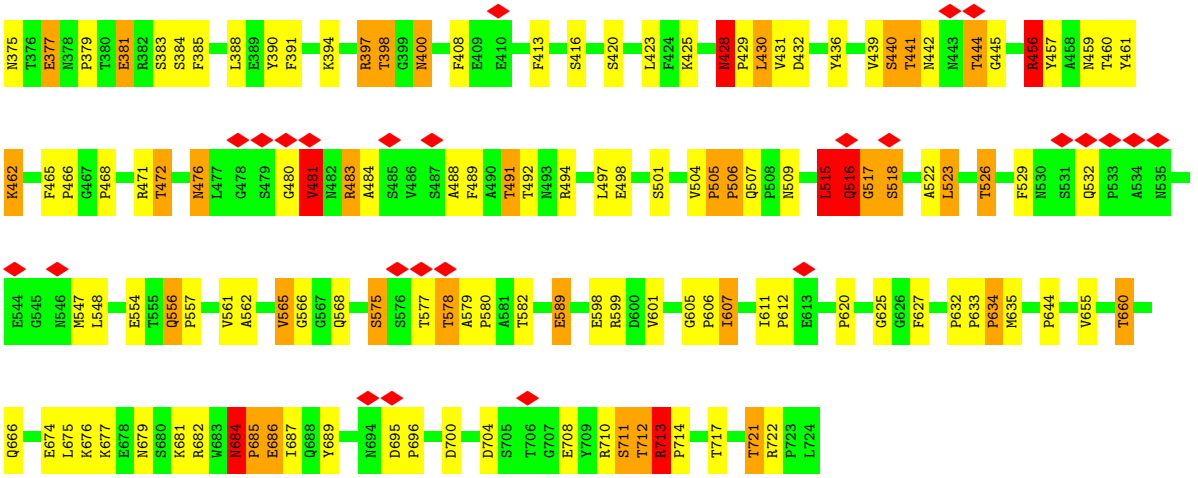
Chain o:



• Molecule 1: Capsid protein

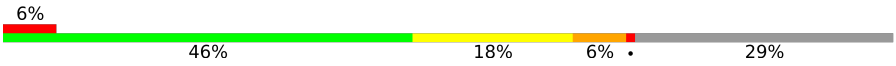
Chain p:

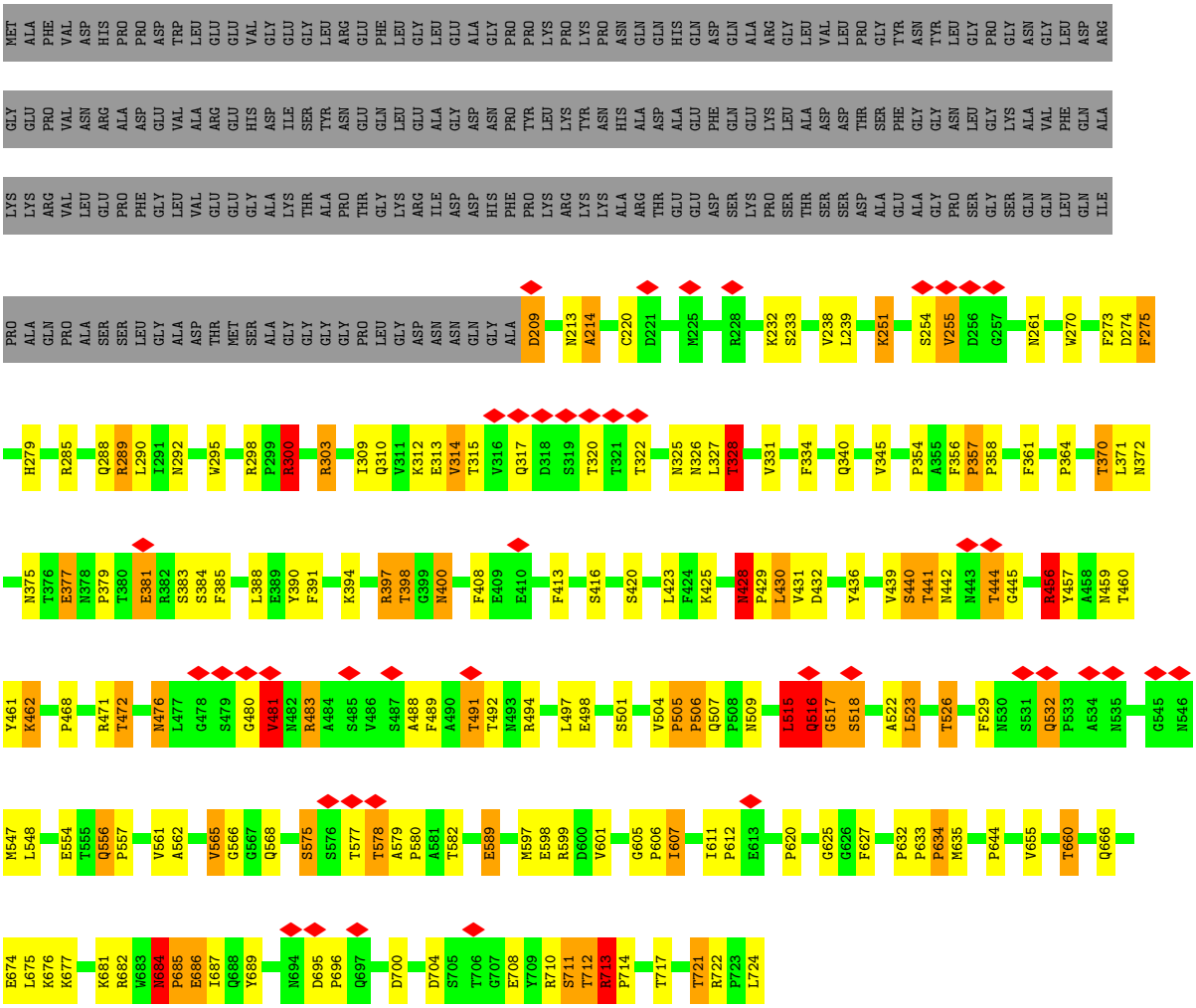




• Molecule 1: Capsid protein

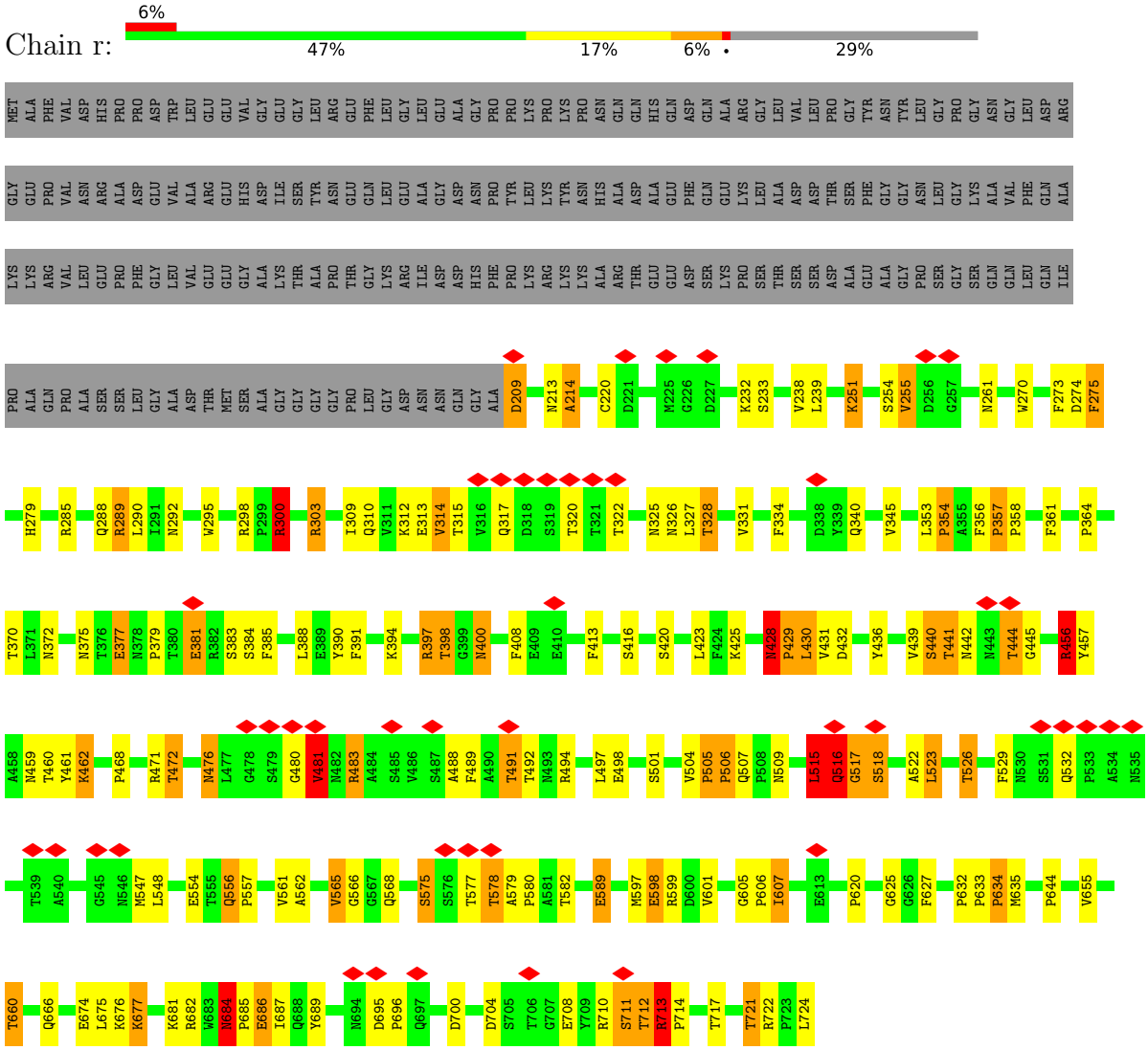
Chain q:





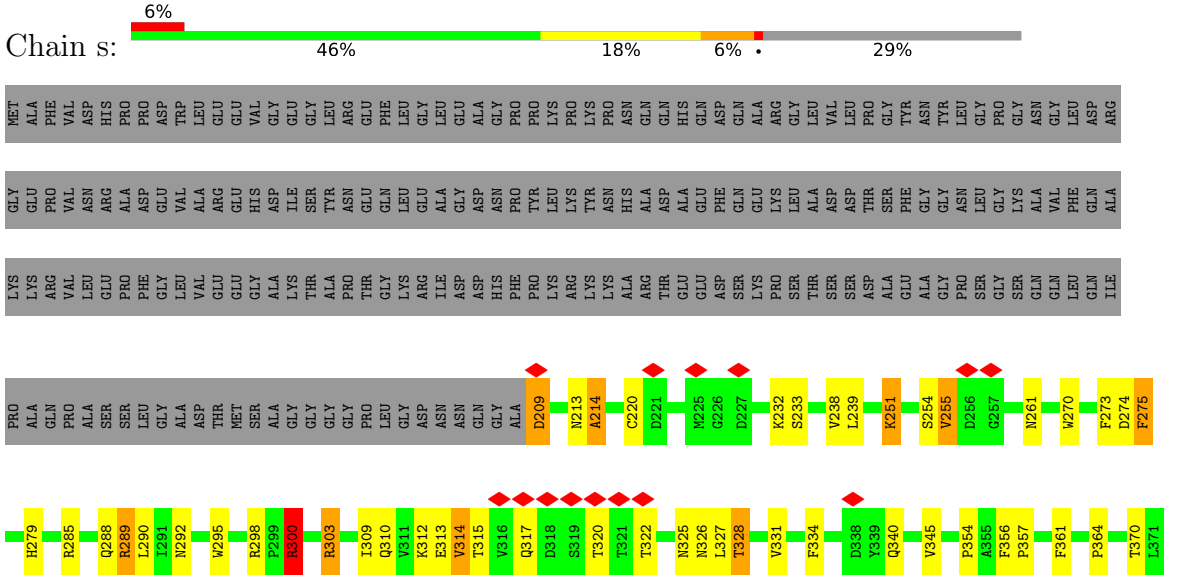
• Molecule 1: Capsid protein

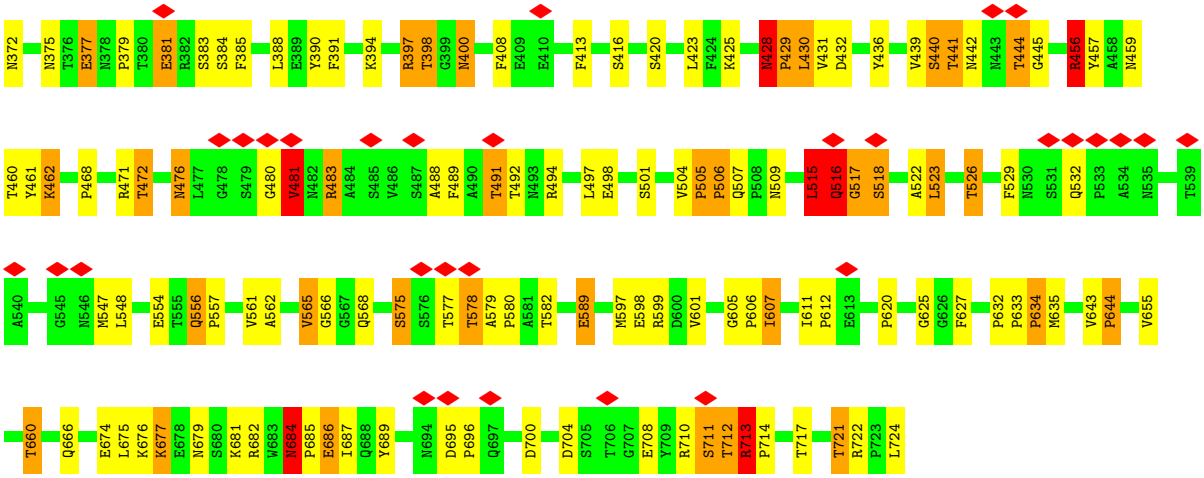
Chain r:



• Molecule 1: Capsid protein

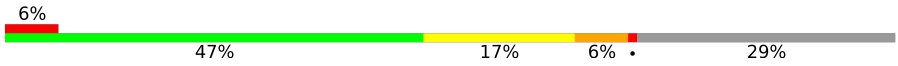
Chain s:

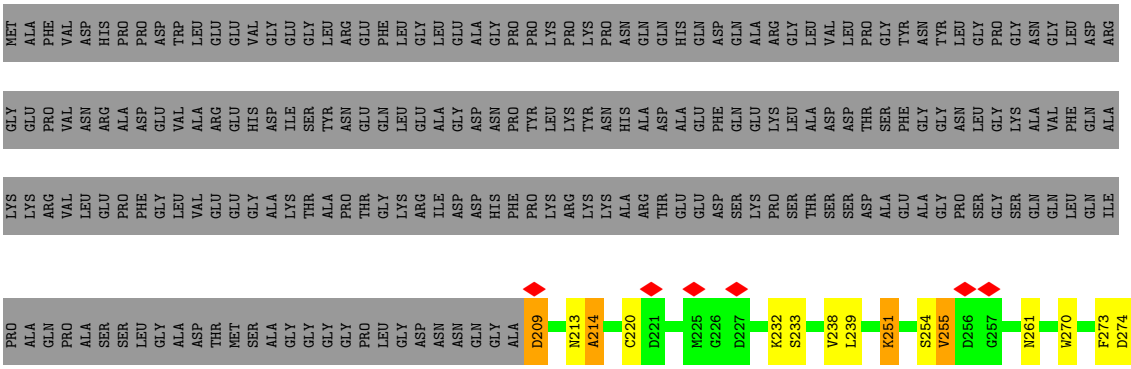




• Molecule 1: Capsid protein

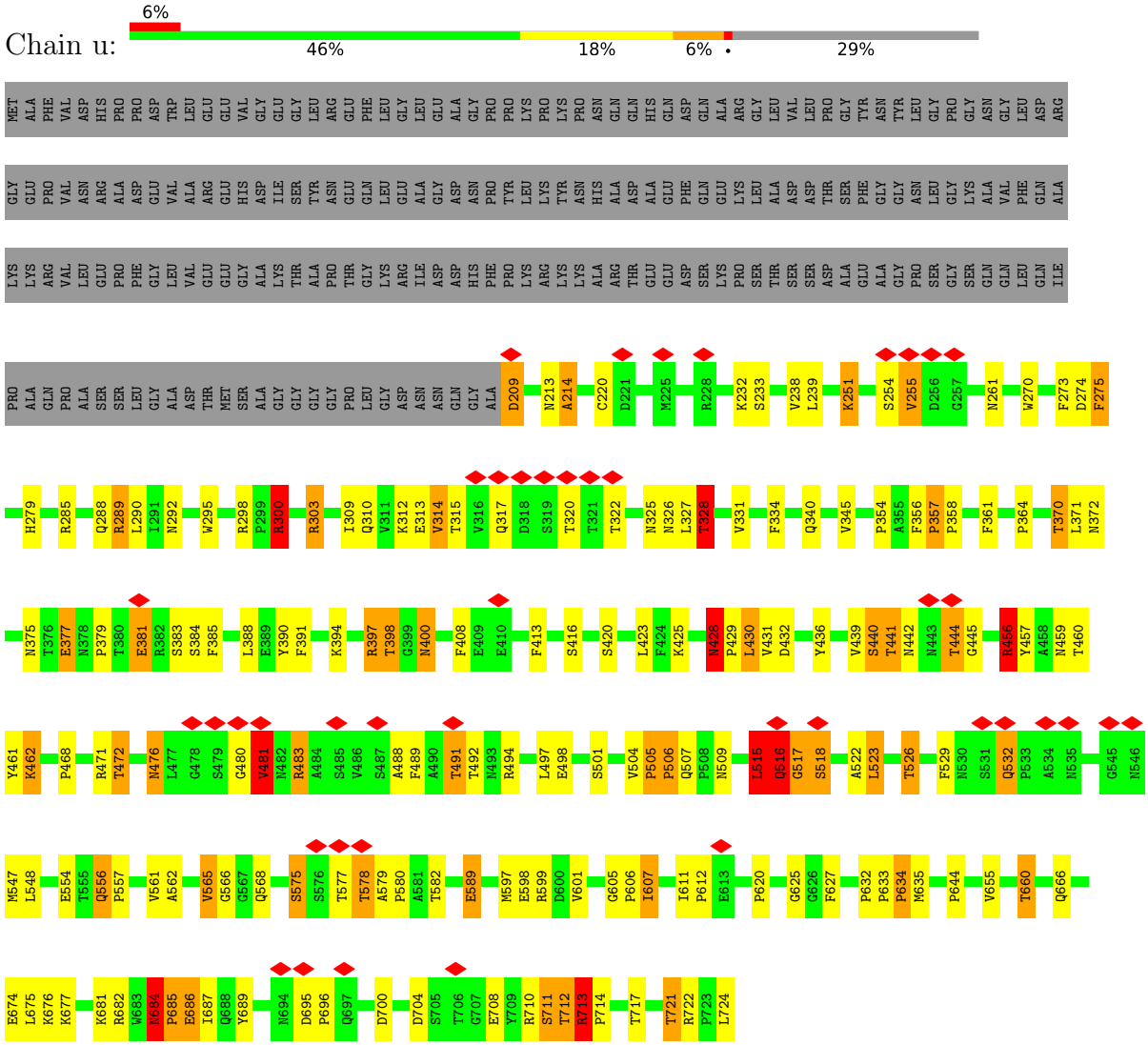
Chain t:





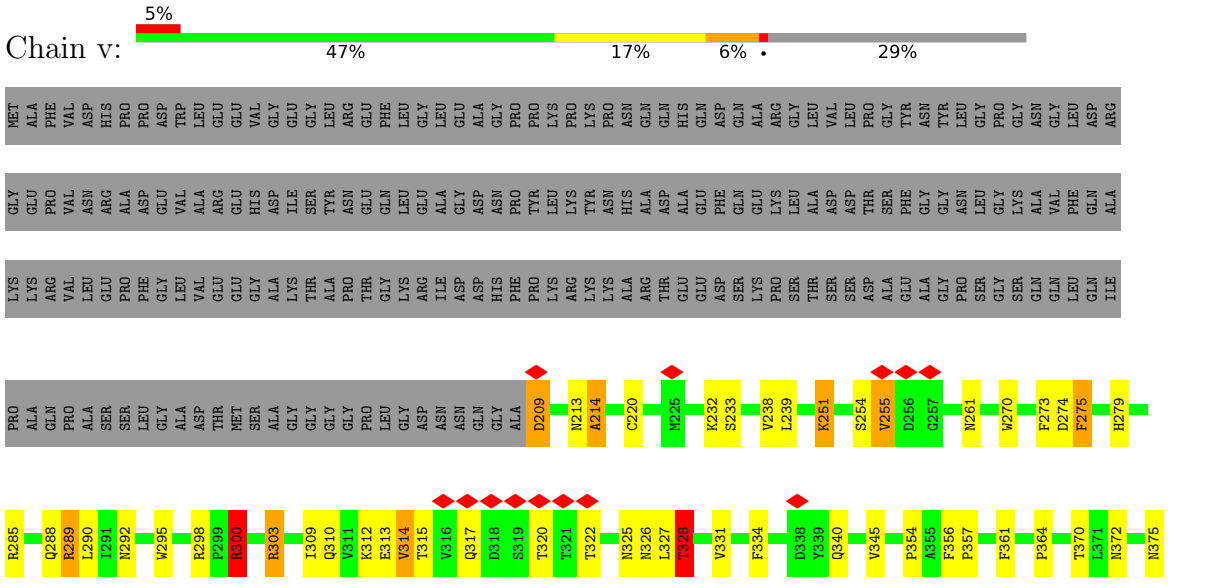
• Molecule 1: Capsid protein

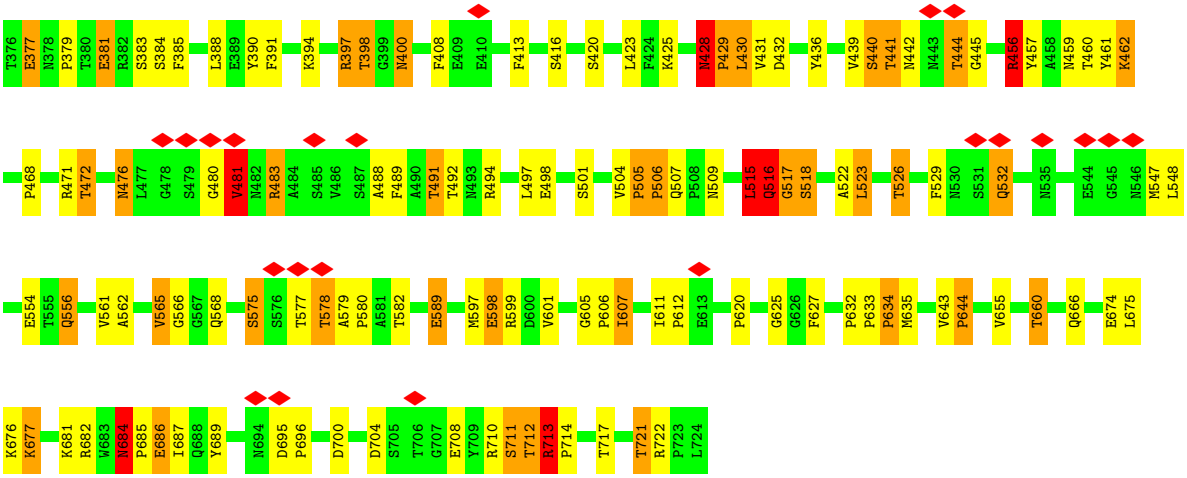
Chain u:



• Molecule 1: Capsid protein

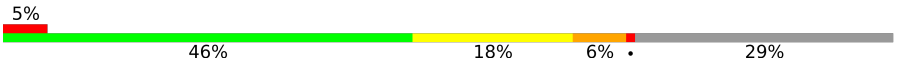
Chain v:

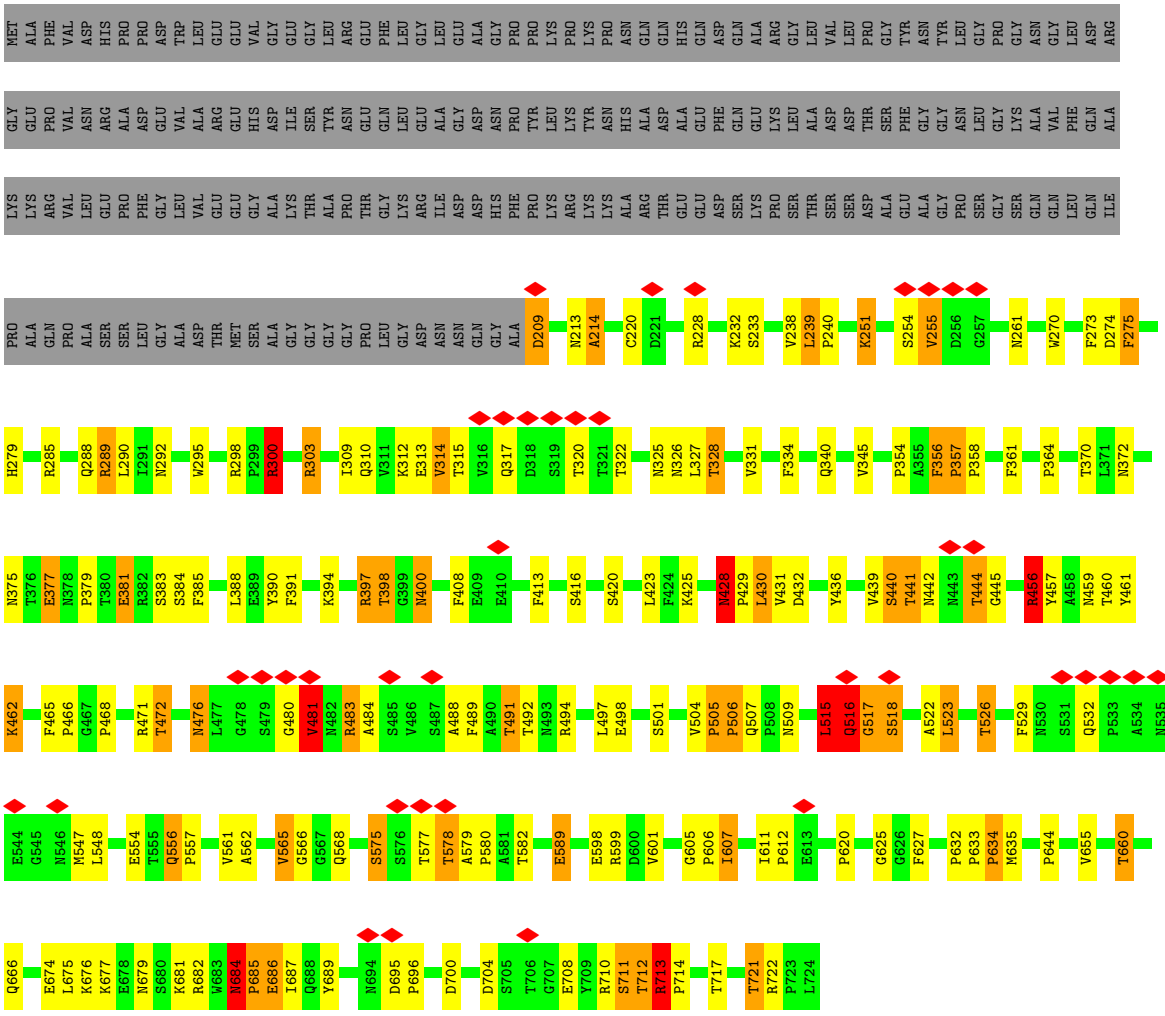




• Molecule 1: Capsid protein

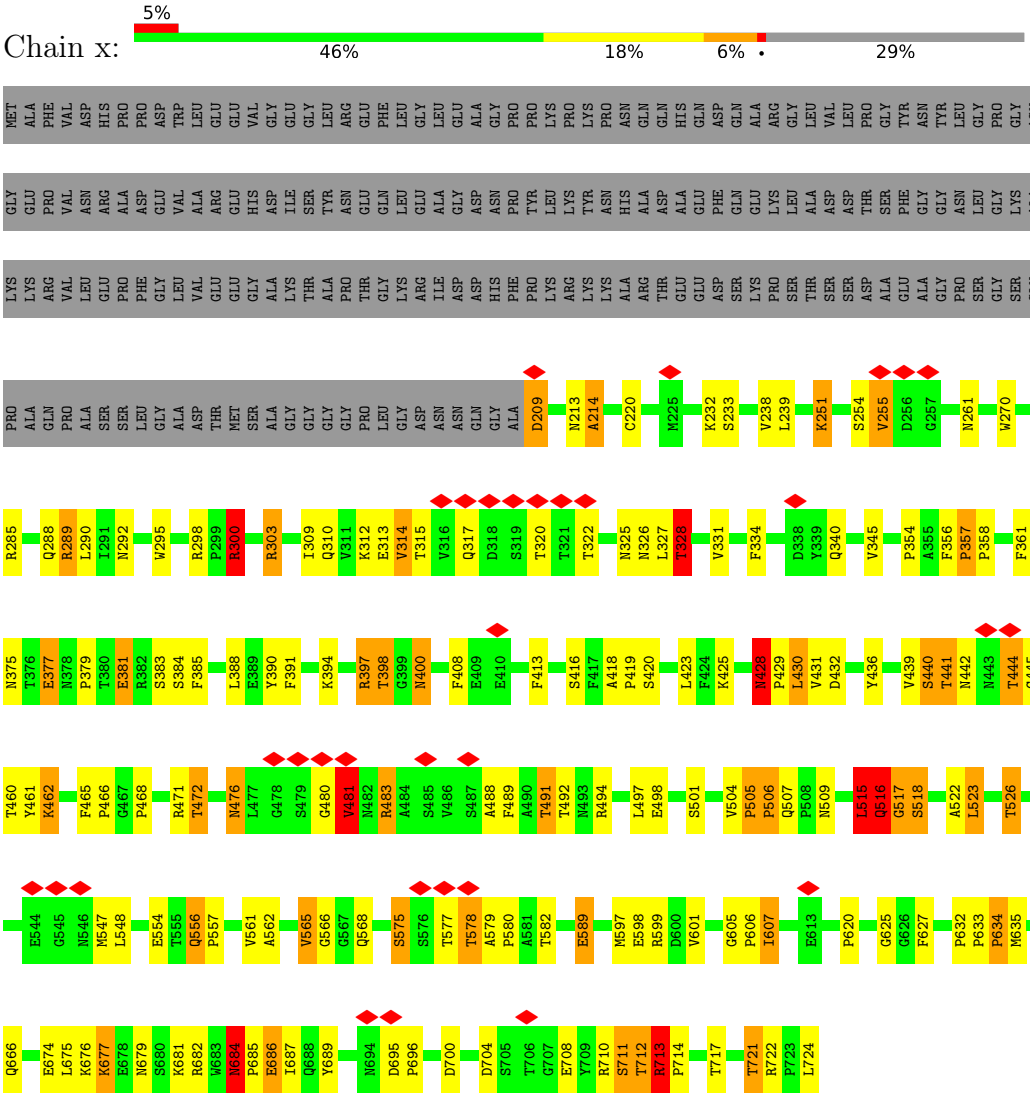
Chain w:





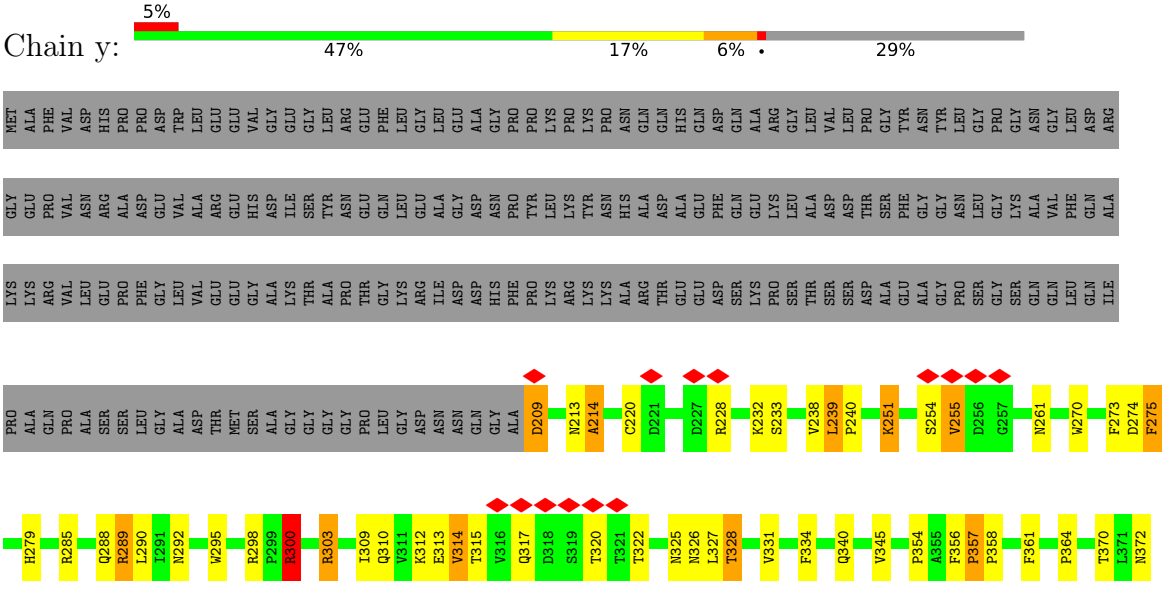
• Molecule 1: Capsid protein

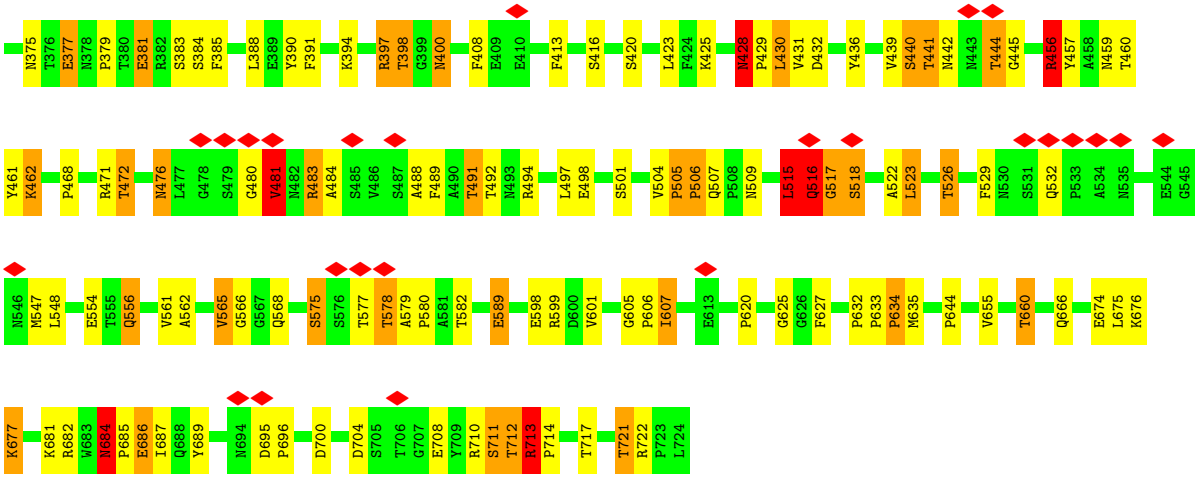
Chain x:



• Molecule 1: Capsid protein

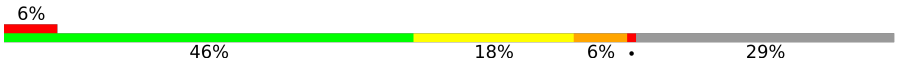
Chain y:

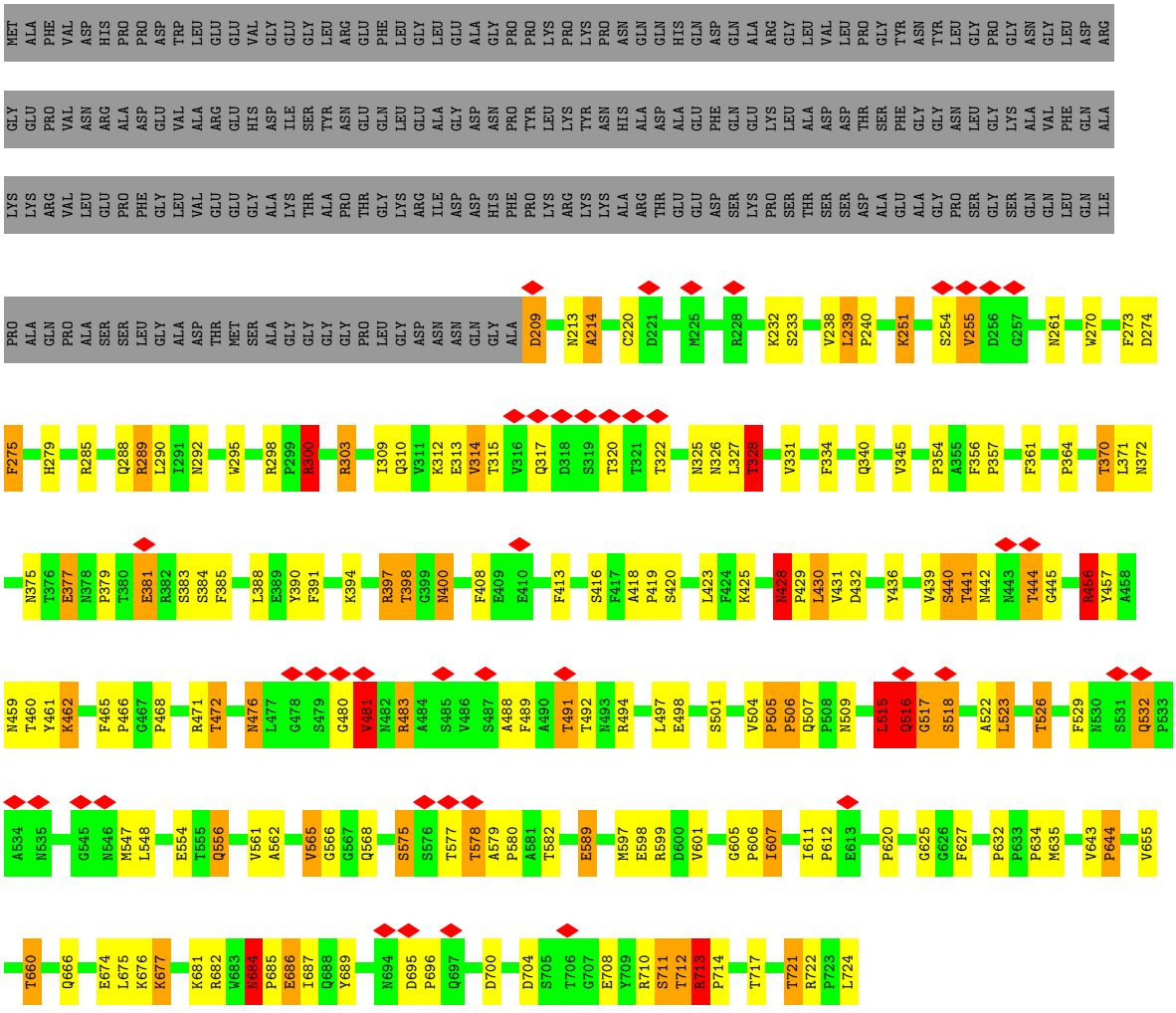




• Molecule 1: Capsid protein

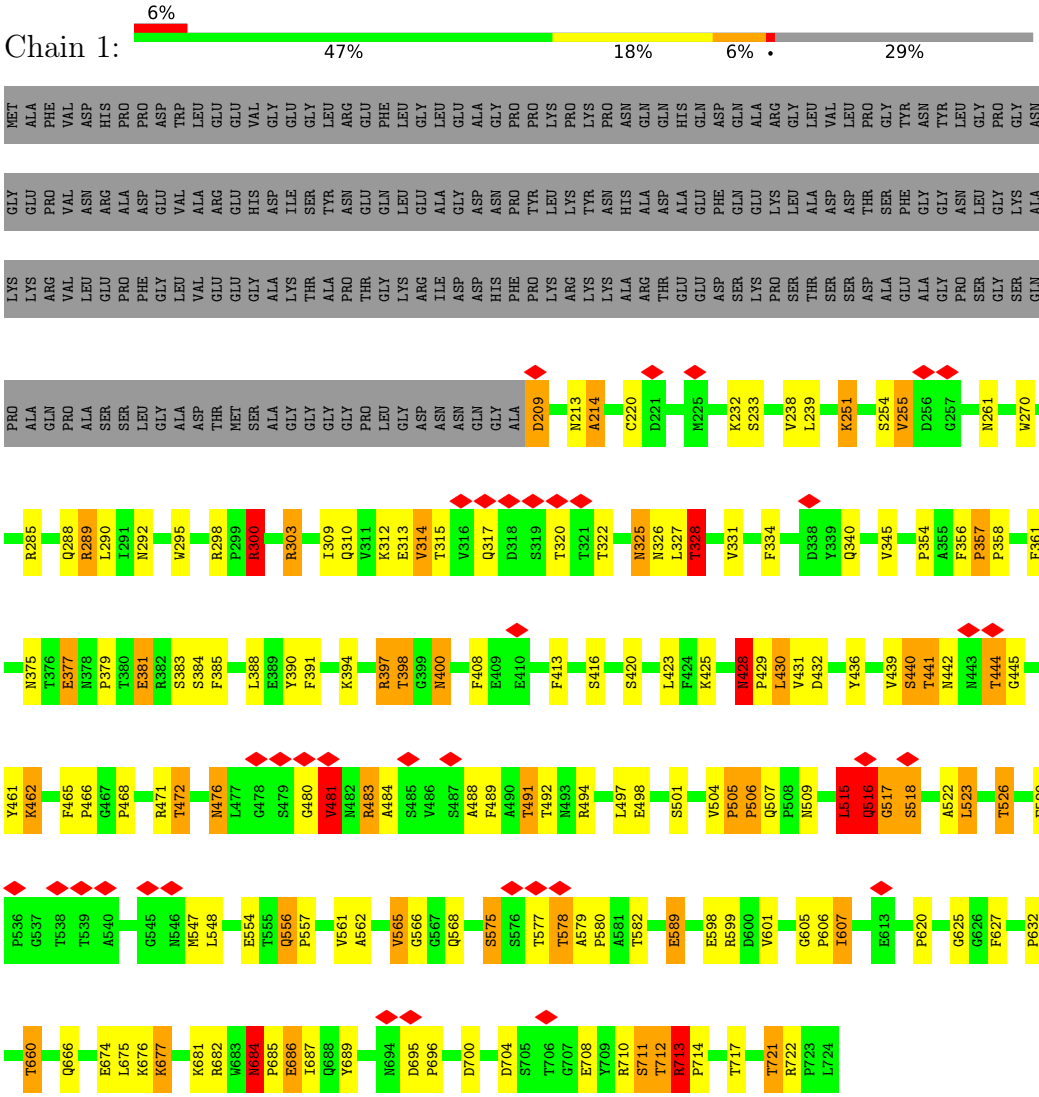
Chain z:





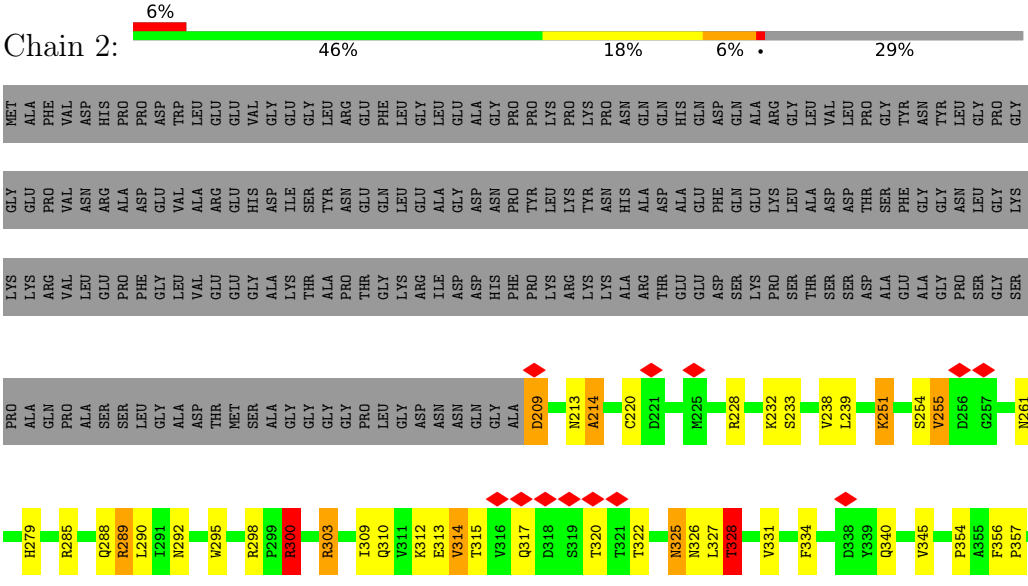
• Molecule 1: Capsid protein

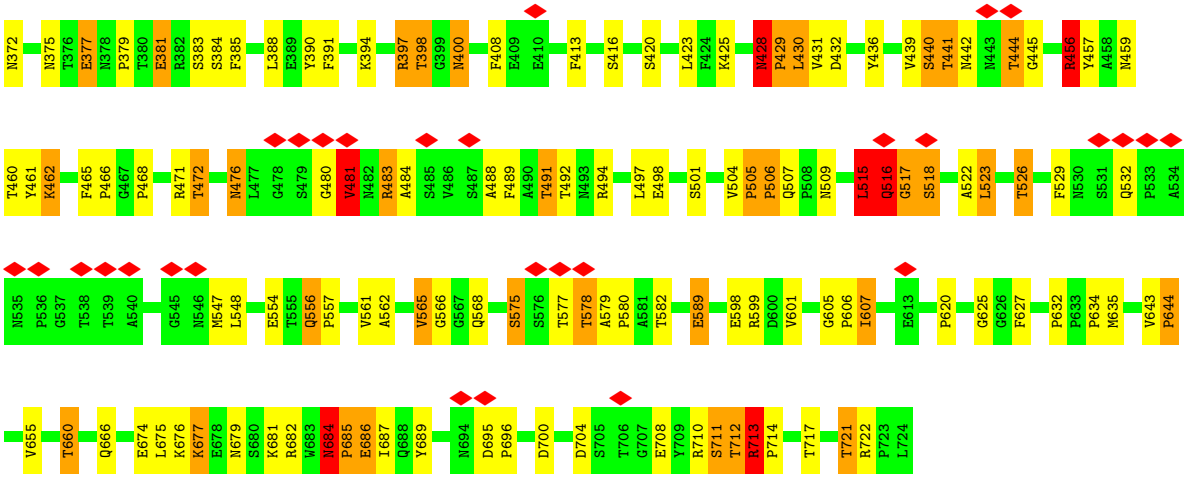
Chain 1:



• Molecule 1: Capsid protein

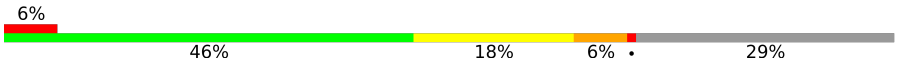
Chain 2:

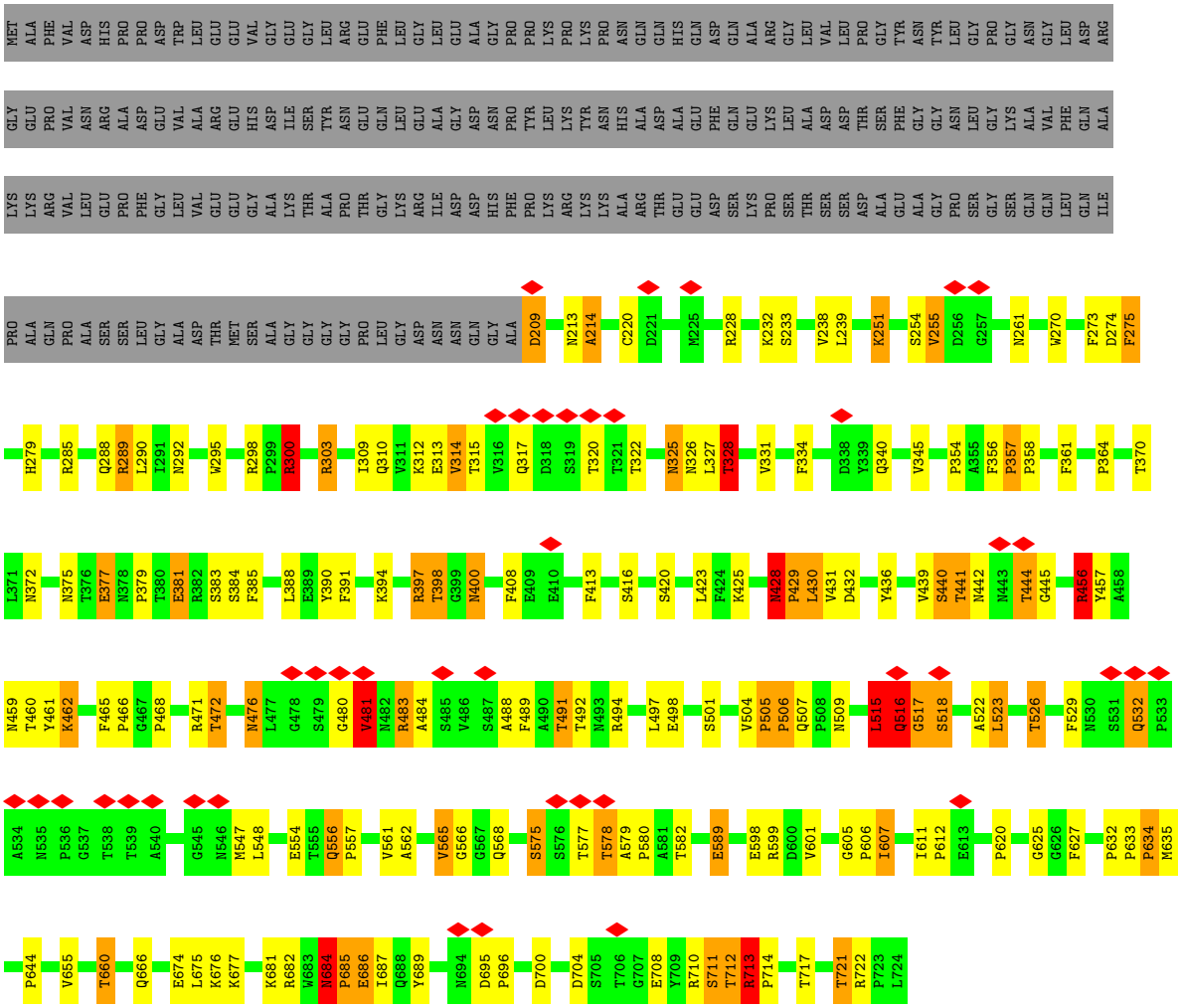




• Molecule 1: Capsid protein

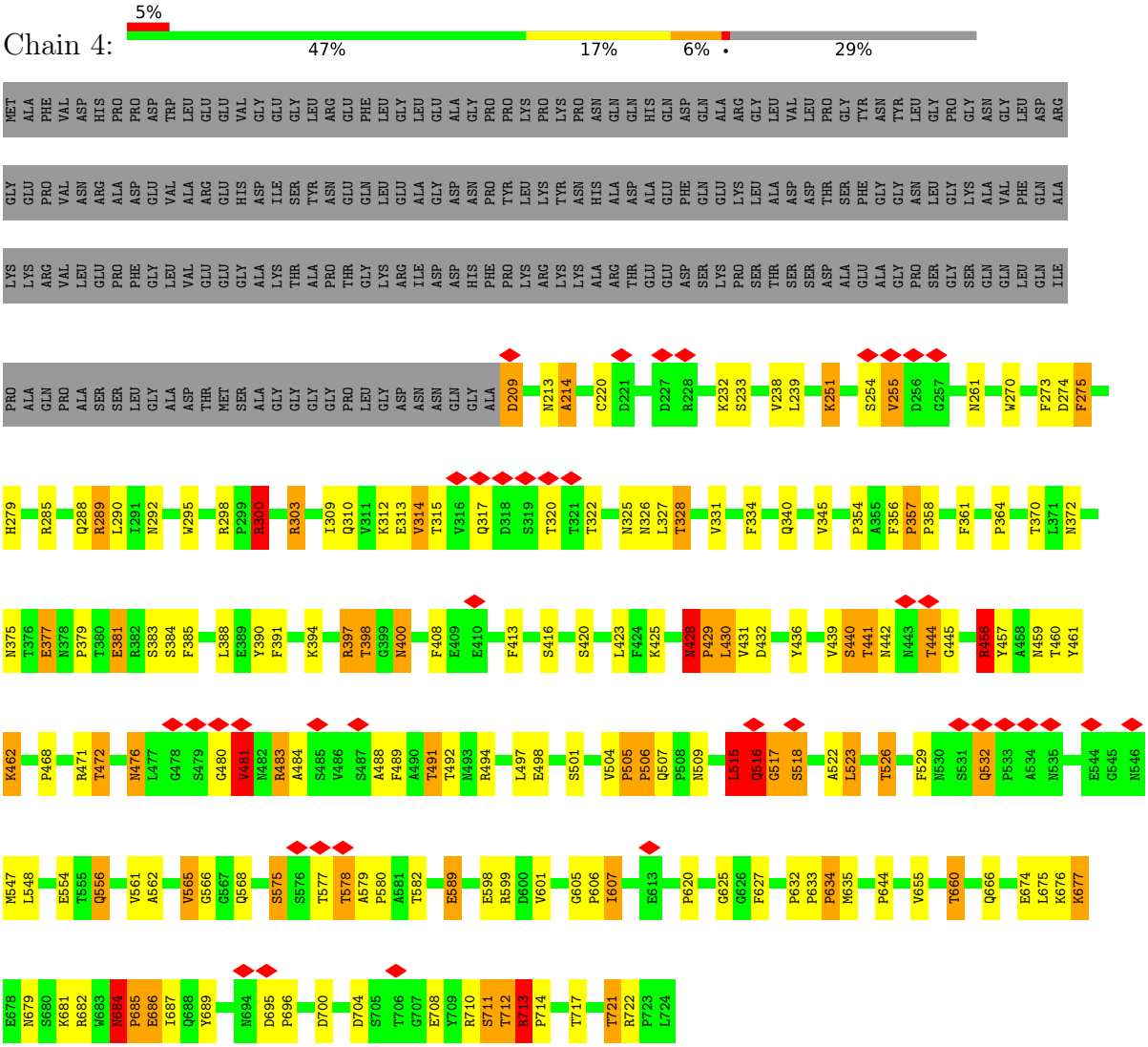
Chain 3:





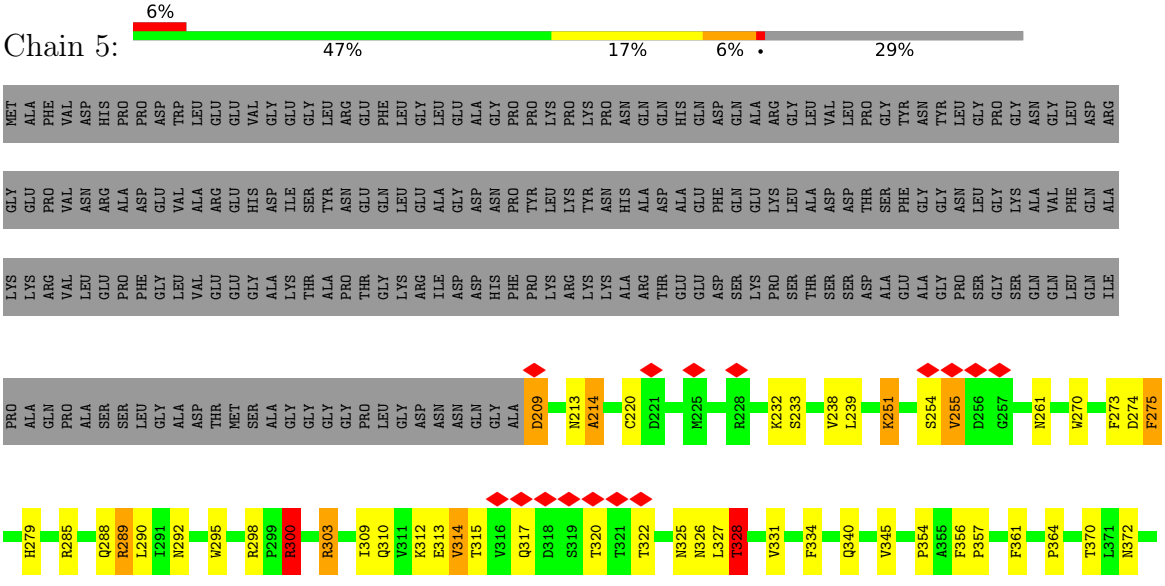
• Molecule 1: Capsid protein

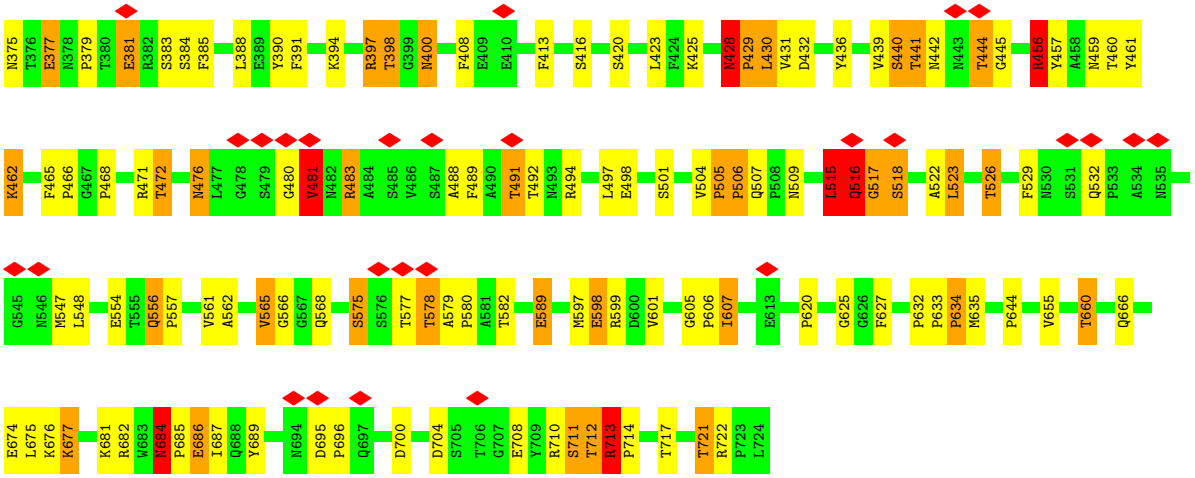
Chain 4:



• Molecule 1: Capsid protein

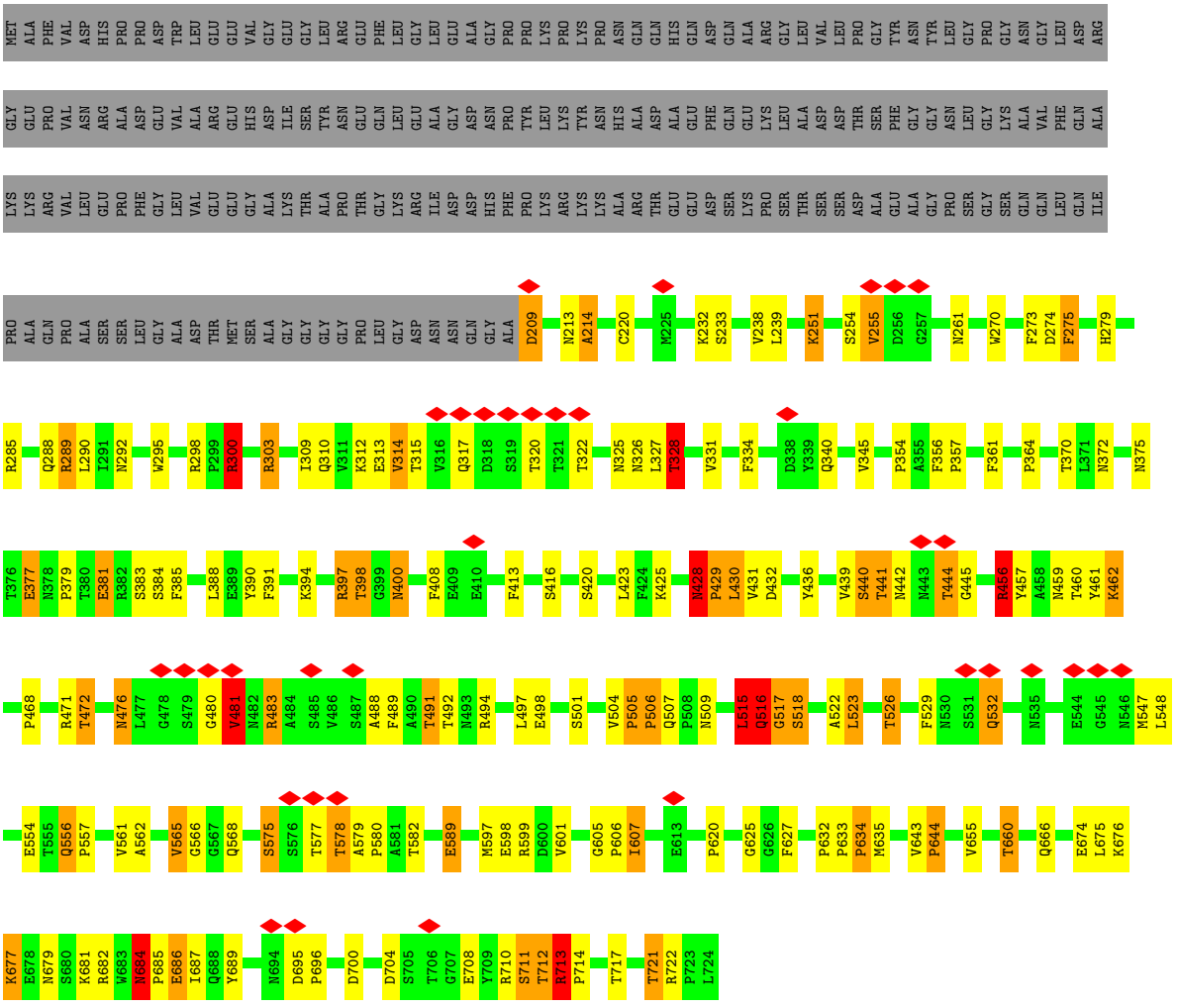
Chain 5:





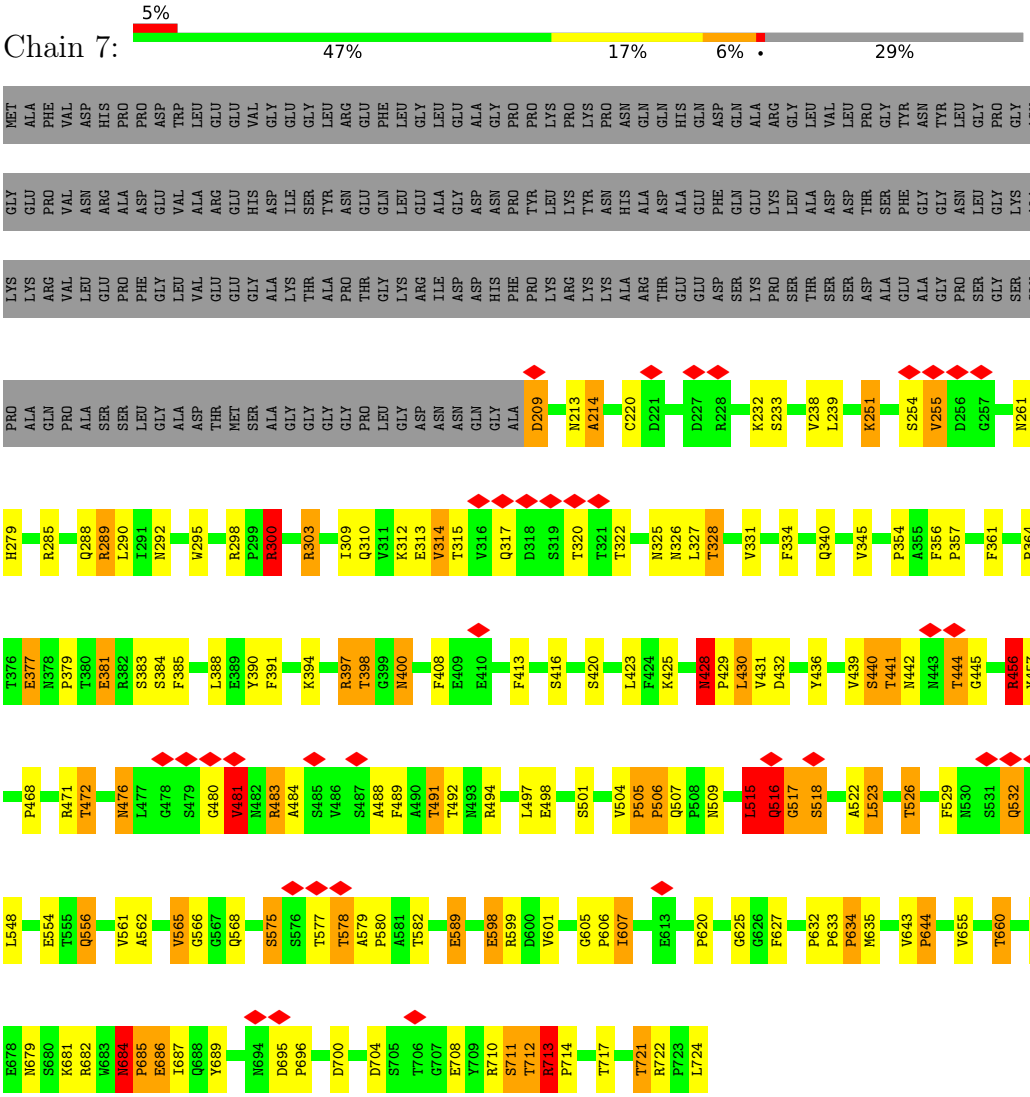
• Molecule 1: Capsid protein

Chain 6:



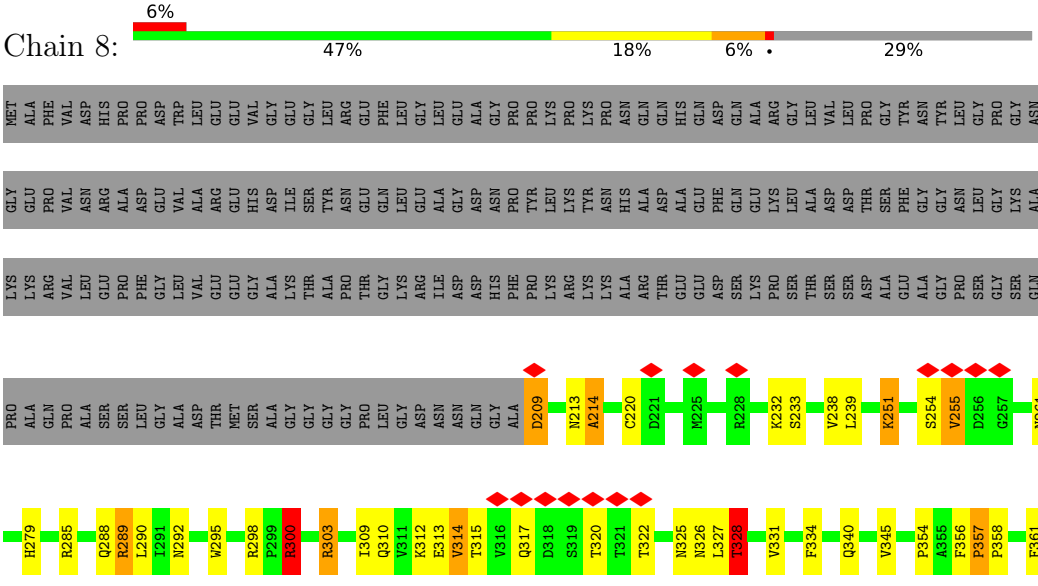
• Molecule 1: Capsid protein

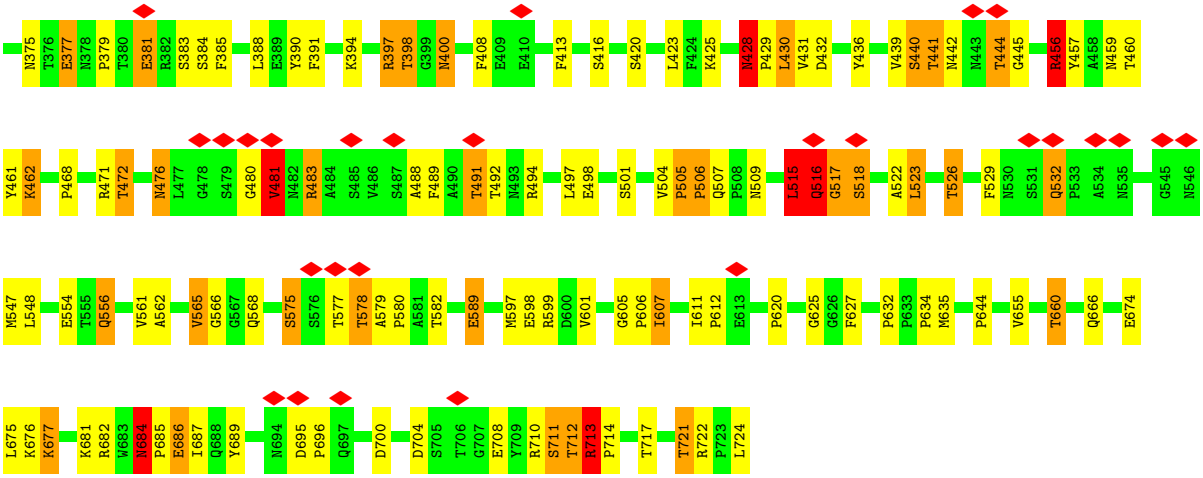
Chain 7:



• Molecule 1: Capsid protein

Chain 8:




N375 T376 E377 N378 P379 T380 E381 R382 S383 S384 F385 L388 E389 Y390 F391 K394 R397 T398 G399 N400 F408 E409 E410 F413 S416 S420 L423 F424 K425 N428 P429 L430 V431 D432 Y436 V439 S440 T441 N442 N443 T444 G445 R456 Y457 A458 N459 T460
Y461 K462 P468 R471 T472 N476 L477 G478 S479 G480 V481 N482 R483 A484 S485 V486 S487 A488 F489 A490 T491 T492 N493 R494 L497 E498 S501 V504 P505 P506 Q507 P508 N509 L515 Q516 G517 S518 A522 L523 T526 F529 N530 S531 Q532 P533 A534 N535 G545 N546
M547 L548 E554 T555 Q556 V561 A562 V565 G566 G567 Q568 S575 S576 T577 T578 A579 P580 A581 T582 E589 M597 E598 R599 D600 V601 G605 P606 I607 I611 P612 E613 P620 G625 G626 F627 P632 P633 P634 M635 P644 V655 T660 Q666 E674
L675 K676 K677 K681 R682 W683 N684 P685 E686 I687 Q688 Y689 N694 D695 P696 Q697 D700 D704 S705 T706 G707 E708 Y709 R710 S711 T712 R713 P714 T717 T721 R722 P723 L724

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	285362	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	8.157	Depositor
Minimum map value	-5.436	Depositor
Average map value	0.010	Depositor
Map value standard deviation	0.452	Depositor
Recommended contour level	2	Depositor
Map size (Å)	410.40002, 410.40002, 410.40002	wwPDB
Map dimensions	480, 480, 480	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.8550001, 0.8550001, 0.8550001	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	1	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	2	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	3	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	4	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	5	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	6	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	7	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	8	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	A	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	B	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	C	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	D	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	E	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	F	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	G	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	H	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	I	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	J	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	K	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	L	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	M	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	N	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	O	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	P	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	Q	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	R	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	S	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	T	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	U	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	V	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	W	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	X	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	Y	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	Z	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	b	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	c	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	d	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	e	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	f	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	g	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	h	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	i	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	j	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	k	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	l	1.16	1/4238 (0.0%)	1.76	86/5791 (1.5%)
1	m	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	n	1.16	1/4238 (0.0%)	1.76	87/5791 (1.5%)
1	o	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	p	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	q	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	r	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	s	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	t	1.16	1/4238 (0.0%)	1.76	83/5791 (1.4%)
1	u	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	v	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	w	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	x	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	y	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
1	z	1.16	1/4238 (0.0%)	1.76	84/5791 (1.5%)
All	All	1.16	60/254280 (0.0%)	1.76	5058/347460 (1.5%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	12
1	2	0	12
1	3	0	12
1	4	0	12
1	5	0	12
1	6	0	12
1	7	0	12
1	8	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	12
1	B	0	12
1	C	0	12
1	D	0	12
1	E	0	12
1	F	0	12
1	G	0	12
1	H	0	12
1	I	0	12
1	J	0	12
1	K	0	12
1	L	0	12
1	M	0	12
1	N	0	12
1	O	0	12
1	P	0	12
1	Q	0	12
1	R	0	12
1	S	0	12
1	T	0	12
1	U	0	12
1	V	0	12
1	W	0	12
1	X	0	12
1	Y	0	12
1	Z	0	12
1	a	0	12
1	b	0	12
1	c	0	12
1	d	0	12
1	e	0	12
1	f	0	12
1	g	0	12
1	h	0	12
1	i	0	12
1	j	0	12
1	k	0	12
1	l	0	12
1	m	0	12
1	n	0	12
1	o	0	12
1	p	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	12
1	r	0	12
1	s	0	12
1	t	0	12
1	u	0	12
1	v	0	12
1	w	0	12
1	x	0	12
1	y	0	12
1	z	0	12
All	All	0	720

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	695	ASP	N-CA	5.12	1.50	1.46
1	I	695	ASP	N-CA	5.12	1.50	1.46
1	J	695	ASP	N-CA	5.12	1.50	1.46
1	W	695	ASP	N-CA	5.12	1.50	1.46
1	X	695	ASP	N-CA	5.12	1.50	1.46
1	Y	695	ASP	N-CA	5.12	1.50	1.46
1	l	695	ASP	N-CA	5.12	1.50	1.46
1	m	695	ASP	N-CA	5.12	1.50	1.46
1	n	695	ASP	N-CA	5.12	1.50	1.46
1	1	695	ASP	N-CA	5.12	1.50	1.46
1	2	695	ASP	N-CA	5.12	1.50	1.46
1	3	695	ASP	N-CA	5.12	1.50	1.46
1	A	695	ASP	N-CA	5.10	1.50	1.46
1	C	695	ASP	N-CA	5.10	1.50	1.46
1	E	695	ASP	N-CA	5.10	1.50	1.46
1	F	695	ASP	N-CA	5.10	1.50	1.46
1	G	695	ASP	N-CA	5.10	1.50	1.46
1	K	695	ASP	N-CA	5.10	1.50	1.46
1	N	695	ASP	N-CA	5.10	1.50	1.46
1	O	695	ASP	N-CA	5.10	1.50	1.46
1	P	695	ASP	N-CA	5.10	1.50	1.46
1	R	695	ASP	N-CA	5.10	1.50	1.46
1	T	695	ASP	N-CA	5.10	1.50	1.46
1	b	695	ASP	N-CA	5.10	1.50	1.46
1	e	695	ASP	N-CA	5.10	1.50	1.46
1	g	695	ASP	N-CA	5.10	1.50	1.46
1	i	695	ASP	N-CA	5.10	1.50	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	695	ASP	N-CA	5.10	1.50	1.46
1	k	695	ASP	N-CA	5.10	1.50	1.46
1	o	695	ASP	N-CA	5.10	1.50	1.46
1	r	695	ASP	N-CA	5.10	1.50	1.46
1	s	695	ASP	N-CA	5.10	1.50	1.46
1	t	695	ASP	N-CA	5.10	1.50	1.46
1	v	695	ASP	N-CA	5.10	1.50	1.46
1	x	695	ASP	N-CA	5.10	1.50	1.46
1	6	695	ASP	N-CA	5.10	1.50	1.46
1	D	695	ASP	N-CA	5.07	1.50	1.46
1	L	695	ASP	N-CA	5.07	1.50	1.46
1	S	695	ASP	N-CA	5.07	1.50	1.46
1	U	695	ASP	N-CA	5.07	1.50	1.46
1	Z	695	ASP	N-CA	5.07	1.50	1.46
1	c	695	ASP	N-CA	5.07	1.50	1.46
1	h	695	ASP	N-CA	5.07	1.50	1.46
1	p	695	ASP	N-CA	5.07	1.50	1.46
1	w	695	ASP	N-CA	5.07	1.50	1.46
1	y	695	ASP	N-CA	5.07	1.50	1.46
1	4	695	ASP	N-CA	5.07	1.50	1.46
1	7	695	ASP	N-CA	5.07	1.50	1.46
1	B	695	ASP	N-CA	5.06	1.50	1.46
1	M	695	ASP	N-CA	5.06	1.50	1.46
1	Q	695	ASP	N-CA	5.06	1.50	1.46
1	V	695	ASP	N-CA	5.06	1.50	1.46
1	a	695	ASP	N-CA	5.06	1.50	1.46
1	d	695	ASP	N-CA	5.06	1.50	1.46
1	f	695	ASP	N-CA	5.06	1.50	1.46
1	q	695	ASP	N-CA	5.06	1.50	1.46
1	u	695	ASP	N-CA	5.06	1.50	1.46
1	z	695	ASP	N-CA	5.06	1.50	1.46
1	5	695	ASP	N-CA	5.06	1.50	1.46
1	8	695	ASP	N-CA	5.06	1.50	1.46

All (5058) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	605	GLY	N-CA-C	9.29	123.53	112.10
1	M	605	GLY	N-CA-C	9.29	123.53	112.10
1	Q	605	GLY	N-CA-C	9.29	123.53	112.10
1	V	605	GLY	N-CA-C	9.29	123.53	112.10
1	a	605	GLY	N-CA-C	9.29	123.53	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	605	GLY	N-CA-C	9.29	123.53	112.10
1	f	605	GLY	N-CA-C	9.29	123.53	112.10
1	q	605	GLY	N-CA-C	9.29	123.53	112.10
1	u	605	GLY	N-CA-C	9.29	123.53	112.10
1	z	605	GLY	N-CA-C	9.29	123.53	112.10
1	5	605	GLY	N-CA-C	9.29	123.53	112.10
1	8	605	GLY	N-CA-C	9.29	123.53	112.10
1	H	605	GLY	N-CA-C	9.29	123.52	112.10
1	I	605	GLY	N-CA-C	9.29	123.52	112.10
1	J	605	GLY	N-CA-C	9.29	123.52	112.10
1	W	605	GLY	N-CA-C	9.29	123.52	112.10
1	X	605	GLY	N-CA-C	9.29	123.52	112.10
1	Y	605	GLY	N-CA-C	9.29	123.52	112.10
1	l	605	GLY	N-CA-C	9.29	123.52	112.10
1	m	605	GLY	N-CA-C	9.29	123.52	112.10
1	n	605	GLY	N-CA-C	9.29	123.52	112.10
1	1	605	GLY	N-CA-C	9.29	123.52	112.10
1	2	605	GLY	N-CA-C	9.29	123.52	112.10
1	3	605	GLY	N-CA-C	9.29	123.52	112.10
1	A	605	GLY	N-CA-C	9.28	123.52	112.10
1	C	605	GLY	N-CA-C	9.28	123.52	112.10
1	K	605	GLY	N-CA-C	9.28	123.52	112.10
1	R	605	GLY	N-CA-C	9.28	123.52	112.10
1	T	605	GLY	N-CA-C	9.28	123.52	112.10
1	b	605	GLY	N-CA-C	9.28	123.52	112.10
1	e	605	GLY	N-CA-C	9.28	123.52	112.10
1	g	605	GLY	N-CA-C	9.28	123.52	112.10
1	o	605	GLY	N-CA-C	9.28	123.52	112.10
1	v	605	GLY	N-CA-C	9.28	123.52	112.10
1	x	605	GLY	N-CA-C	9.28	123.52	112.10
1	6	605	GLY	N-CA-C	9.28	123.52	112.10
1	E	605	GLY	N-CA-C	9.28	123.51	112.10
1	F	605	GLY	N-CA-C	9.28	123.51	112.10
1	G	605	GLY	N-CA-C	9.28	123.51	112.10
1	N	605	GLY	N-CA-C	9.28	123.51	112.10
1	O	605	GLY	N-CA-C	9.28	123.51	112.10
1	P	605	GLY	N-CA-C	9.28	123.51	112.10
1	i	605	GLY	N-CA-C	9.28	123.51	112.10
1	j	605	GLY	N-CA-C	9.28	123.51	112.10
1	k	605	GLY	N-CA-C	9.28	123.51	112.10
1	r	605	GLY	N-CA-C	9.28	123.51	112.10
1	s	605	GLY	N-CA-C	9.28	123.51	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	605	GLY	N-CA-C	9.28	123.51	112.10
1	D	605	GLY	N-CA-C	9.26	123.49	112.10
1	L	605	GLY	N-CA-C	9.26	123.49	112.10
1	S	605	GLY	N-CA-C	9.26	123.49	112.10
1	U	605	GLY	N-CA-C	9.26	123.49	112.10
1	Z	605	GLY	N-CA-C	9.26	123.49	112.10
1	c	605	GLY	N-CA-C	9.26	123.49	112.10
1	h	605	GLY	N-CA-C	9.26	123.49	112.10
1	p	605	GLY	N-CA-C	9.26	123.49	112.10
1	w	605	GLY	N-CA-C	9.26	123.49	112.10
1	y	605	GLY	N-CA-C	9.26	123.49	112.10
1	4	605	GLY	N-CA-C	9.26	123.49	112.10
1	7	605	GLY	N-CA-C	9.26	123.49	112.10
1	D	356	PHE	CB-CA-C	9.09	120.21	109.85
1	L	356	PHE	CB-CA-C	9.09	120.21	109.85
1	S	356	PHE	CB-CA-C	9.09	120.21	109.85
1	U	356	PHE	CB-CA-C	9.09	120.21	109.85
1	Z	356	PHE	CB-CA-C	9.09	120.21	109.85
1	c	356	PHE	CB-CA-C	9.09	120.21	109.85
1	h	356	PHE	CB-CA-C	9.09	120.21	109.85
1	p	356	PHE	CB-CA-C	9.09	120.21	109.85
1	w	356	PHE	CB-CA-C	9.09	120.21	109.85
1	y	356	PHE	CB-CA-C	9.09	120.21	109.85
1	4	356	PHE	CB-CA-C	9.09	120.21	109.85
1	7	356	PHE	CB-CA-C	9.09	120.21	109.85
1	B	356	PHE	CB-CA-C	9.07	120.19	109.85
1	M	356	PHE	CB-CA-C	9.07	120.19	109.85
1	Q	356	PHE	CB-CA-C	9.07	120.19	109.85
1	V	356	PHE	CB-CA-C	9.07	120.19	109.85
1	a	356	PHE	CB-CA-C	9.07	120.19	109.85
1	d	356	PHE	CB-CA-C	9.07	120.19	109.85
1	f	356	PHE	CB-CA-C	9.07	120.19	109.85
1	q	356	PHE	CB-CA-C	9.07	120.19	109.85
1	u	356	PHE	CB-CA-C	9.07	120.19	109.85
1	z	356	PHE	CB-CA-C	9.07	120.19	109.85
1	5	356	PHE	CB-CA-C	9.07	120.19	109.85
1	8	356	PHE	CB-CA-C	9.07	120.19	109.85
1	E	356	PHE	CB-CA-C	9.06	120.18	109.85
1	F	356	PHE	CB-CA-C	9.06	120.18	109.85
1	G	356	PHE	CB-CA-C	9.06	120.18	109.85
1	N	356	PHE	CB-CA-C	9.06	120.18	109.85
1	O	356	PHE	CB-CA-C	9.06	120.18	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	356	PHE	CB-CA-C	9.06	120.18	109.85
1	i	356	PHE	CB-CA-C	9.06	120.18	109.85
1	j	356	PHE	CB-CA-C	9.06	120.18	109.85
1	k	356	PHE	CB-CA-C	9.06	120.18	109.85
1	r	356	PHE	CB-CA-C	9.06	120.18	109.85
1	s	356	PHE	CB-CA-C	9.06	120.18	109.85
1	t	356	PHE	CB-CA-C	9.06	120.18	109.85
1	H	356	PHE	CB-CA-C	9.06	120.17	109.85
1	H	606	PRO	N-CA-C	9.06	125.41	111.19
1	I	356	PHE	CB-CA-C	9.06	120.17	109.85
1	I	606	PRO	N-CA-C	9.06	125.41	111.19
1	J	356	PHE	CB-CA-C	9.06	120.17	109.85
1	J	606	PRO	N-CA-C	9.06	125.41	111.19
1	W	356	PHE	CB-CA-C	9.06	120.17	109.85
1	W	606	PRO	N-CA-C	9.06	125.41	111.19
1	X	356	PHE	CB-CA-C	9.06	120.17	109.85
1	X	606	PRO	N-CA-C	9.06	125.41	111.19
1	Y	356	PHE	CB-CA-C	9.06	120.17	109.85
1	Y	606	PRO	N-CA-C	9.06	125.41	111.19
1	l	356	PHE	CB-CA-C	9.06	120.17	109.85
1	l	606	PRO	N-CA-C	9.06	125.41	111.19
1	m	356	PHE	CB-CA-C	9.06	120.17	109.85
1	m	606	PRO	N-CA-C	9.06	125.41	111.19
1	n	356	PHE	CB-CA-C	9.06	120.17	109.85
1	n	606	PRO	N-CA-C	9.06	125.41	111.19
1	1	356	PHE	CB-CA-C	9.06	120.17	109.85
1	1	606	PRO	N-CA-C	9.06	125.41	111.19
1	2	356	PHE	CB-CA-C	9.06	120.17	109.85
1	2	606	PRO	N-CA-C	9.06	125.41	111.19
1	3	356	PHE	CB-CA-C	9.06	120.17	109.85
1	3	606	PRO	N-CA-C	9.06	125.41	111.19
1	E	606	PRO	N-CA-C	9.05	125.39	111.19
1	F	606	PRO	N-CA-C	9.05	125.39	111.19
1	G	606	PRO	N-CA-C	9.05	125.39	111.19
1	N	606	PRO	N-CA-C	9.05	125.39	111.19
1	O	606	PRO	N-CA-C	9.05	125.39	111.19
1	P	606	PRO	N-CA-C	9.05	125.39	111.19
1	i	606	PRO	N-CA-C	9.05	125.39	111.19
1	j	606	PRO	N-CA-C	9.05	125.39	111.19
1	k	606	PRO	N-CA-C	9.05	125.39	111.19
1	r	606	PRO	N-CA-C	9.05	125.39	111.19
1	s	606	PRO	N-CA-C	9.05	125.39	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	606	PRO	N-CA-C	9.05	125.39	111.19
1	A	356	PHE	CB-CA-C	9.04	120.16	109.85
1	A	606	PRO	N-CA-C	9.04	125.39	111.19
1	C	356	PHE	CB-CA-C	9.04	120.16	109.85
1	C	606	PRO	N-CA-C	9.04	125.39	111.19
1	K	356	PHE	CB-CA-C	9.04	120.16	109.85
1	K	606	PRO	N-CA-C	9.04	125.39	111.19
1	R	356	PHE	CB-CA-C	9.04	120.16	109.85
1	R	606	PRO	N-CA-C	9.04	125.39	111.19
1	T	356	PHE	CB-CA-C	9.04	120.16	109.85
1	T	606	PRO	N-CA-C	9.04	125.39	111.19
1	b	356	PHE	CB-CA-C	9.04	120.16	109.85
1	b	606	PRO	N-CA-C	9.04	125.39	111.19
1	e	356	PHE	CB-CA-C	9.04	120.16	109.85
1	e	606	PRO	N-CA-C	9.04	125.39	111.19
1	g	356	PHE	CB-CA-C	9.04	120.16	109.85
1	g	606	PRO	N-CA-C	9.04	125.39	111.19
1	o	356	PHE	CB-CA-C	9.04	120.16	109.85
1	o	606	PRO	N-CA-C	9.04	125.39	111.19
1	v	356	PHE	CB-CA-C	9.04	120.16	109.85
1	v	606	PRO	N-CA-C	9.04	125.39	111.19
1	x	356	PHE	CB-CA-C	9.04	120.16	109.85
1	x	606	PRO	N-CA-C	9.04	125.39	111.19
1	6	356	PHE	CB-CA-C	9.04	120.16	109.85
1	6	606	PRO	N-CA-C	9.04	125.39	111.19
1	B	606	PRO	N-CA-C	9.03	125.37	111.19
1	M	606	PRO	N-CA-C	9.03	125.37	111.19
1	Q	606	PRO	N-CA-C	9.03	125.37	111.19
1	V	606	PRO	N-CA-C	9.03	125.37	111.19
1	a	606	PRO	N-CA-C	9.03	125.37	111.19
1	d	606	PRO	N-CA-C	9.03	125.37	111.19
1	f	606	PRO	N-CA-C	9.03	125.37	111.19
1	q	606	PRO	N-CA-C	9.03	125.37	111.19
1	u	606	PRO	N-CA-C	9.03	125.37	111.19
1	z	606	PRO	N-CA-C	9.03	125.37	111.19
1	5	606	PRO	N-CA-C	9.03	125.37	111.19
1	8	606	PRO	N-CA-C	9.03	125.37	111.19
1	D	606	PRO	N-CA-C	9.02	125.35	111.19
1	L	606	PRO	N-CA-C	9.02	125.35	111.19
1	S	606	PRO	N-CA-C	9.02	125.35	111.19
1	U	606	PRO	N-CA-C	9.02	125.35	111.19
1	Z	606	PRO	N-CA-C	9.02	125.35	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	606	PRO	N-CA-C	9.02	125.35	111.19
1	h	606	PRO	N-CA-C	9.02	125.35	111.19
1	p	606	PRO	N-CA-C	9.02	125.35	111.19
1	w	606	PRO	N-CA-C	9.02	125.35	111.19
1	y	606	PRO	N-CA-C	9.02	125.35	111.19
1	4	606	PRO	N-CA-C	9.02	125.35	111.19
1	7	606	PRO	N-CA-C	9.02	125.35	111.19
1	D	456	ARG	CB-CA-C	8.95	125.55	112.12
1	L	456	ARG	CB-CA-C	8.95	125.55	112.12
1	S	456	ARG	CB-CA-C	8.95	125.55	112.12
1	U	456	ARG	CB-CA-C	8.95	125.55	112.12
1	Z	456	ARG	CB-CA-C	8.95	125.55	112.12
1	c	456	ARG	CB-CA-C	8.95	125.55	112.12
1	h	456	ARG	CB-CA-C	8.95	125.55	112.12
1	p	456	ARG	CB-CA-C	8.95	125.55	112.12
1	w	456	ARG	CB-CA-C	8.95	125.55	112.12
1	y	456	ARG	CB-CA-C	8.95	125.55	112.12
1	4	456	ARG	CB-CA-C	8.95	125.55	112.12
1	7	456	ARG	CB-CA-C	8.95	125.55	112.12
1	E	456	ARG	CB-CA-C	8.95	125.55	112.12
1	F	456	ARG	CB-CA-C	8.95	125.55	112.12
1	G	456	ARG	CB-CA-C	8.95	125.55	112.12
1	N	456	ARG	CB-CA-C	8.95	125.55	112.12
1	O	456	ARG	CB-CA-C	8.95	125.55	112.12
1	P	456	ARG	CB-CA-C	8.95	125.55	112.12
1	i	456	ARG	CB-CA-C	8.95	125.55	112.12
1	j	456	ARG	CB-CA-C	8.95	125.55	112.12
1	k	456	ARG	CB-CA-C	8.95	125.55	112.12
1	r	456	ARG	CB-CA-C	8.95	125.55	112.12
1	s	456	ARG	CB-CA-C	8.95	125.55	112.12
1	t	456	ARG	CB-CA-C	8.95	125.55	112.12
1	H	456	ARG	CB-CA-C	8.94	125.53	112.12
1	I	456	ARG	CB-CA-C	8.94	125.53	112.12
1	J	456	ARG	CB-CA-C	8.94	125.53	112.12
1	W	456	ARG	CB-CA-C	8.94	125.53	112.12
1	X	456	ARG	CB-CA-C	8.94	125.53	112.12
1	Y	456	ARG	CB-CA-C	8.94	125.53	112.12
1	l	456	ARG	CB-CA-C	8.94	125.53	112.12
1	m	456	ARG	CB-CA-C	8.94	125.53	112.12
1	n	456	ARG	CB-CA-C	8.94	125.53	112.12
1	1	456	ARG	CB-CA-C	8.94	125.53	112.12
1	2	456	ARG	CB-CA-C	8.94	125.53	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	456	ARG	CB-CA-C	8.94	125.53	112.12
1	A	456	ARG	CB-CA-C	8.92	125.50	112.12
1	C	456	ARG	CB-CA-C	8.92	125.50	112.12
1	K	456	ARG	CB-CA-C	8.92	125.50	112.12
1	R	456	ARG	CB-CA-C	8.92	125.50	112.12
1	T	456	ARG	CB-CA-C	8.92	125.50	112.12
1	b	456	ARG	CB-CA-C	8.92	125.50	112.12
1	e	456	ARG	CB-CA-C	8.92	125.50	112.12
1	g	456	ARG	CB-CA-C	8.92	125.50	112.12
1	o	456	ARG	CB-CA-C	8.92	125.50	112.12
1	v	456	ARG	CB-CA-C	8.92	125.50	112.12
1	x	456	ARG	CB-CA-C	8.92	125.50	112.12
1	6	456	ARG	CB-CA-C	8.92	125.50	112.12
1	B	456	ARG	CB-CA-C	8.91	125.49	112.12
1	M	456	ARG	CB-CA-C	8.91	125.49	112.12
1	Q	456	ARG	CB-CA-C	8.91	125.49	112.12
1	V	456	ARG	CB-CA-C	8.91	125.49	112.12
1	a	456	ARG	CB-CA-C	8.91	125.49	112.12
1	d	456	ARG	CB-CA-C	8.91	125.49	112.12
1	f	456	ARG	CB-CA-C	8.91	125.49	112.12
1	q	456	ARG	CB-CA-C	8.91	125.49	112.12
1	u	456	ARG	CB-CA-C	8.91	125.49	112.12
1	z	456	ARG	CB-CA-C	8.91	125.49	112.12
1	5	456	ARG	CB-CA-C	8.91	125.49	112.12
1	8	456	ARG	CB-CA-C	8.91	125.49	112.12
1	B	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	M	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	Q	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	V	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	a	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	d	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	f	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	q	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	u	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	z	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	5	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	8	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	D	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	H	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	I	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	J	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	L	334	PHE	CA-CB-CG	8.88	122.68	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	U	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	W	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	X	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	Y	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	Z	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	c	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	h	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	l	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	m	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	n	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	p	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	w	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	y	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	1	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	2	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	3	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	4	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	7	334	PHE	CA-CB-CG	8.88	122.68	113.80
1	A	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	C	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	K	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	R	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	T	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	b	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	e	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	g	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	o	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	v	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	x	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	6	334	PHE	CA-CB-CG	8.88	122.67	113.80
1	E	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	F	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	G	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	N	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	O	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	P	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	i	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	j	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	k	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	r	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	s	334	PHE	CA-CB-CG	8.87	122.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	334	PHE	CA-CB-CG	8.87	122.67	113.80
1	D	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	L	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	S	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	U	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	Z	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	c	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	h	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	p	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	w	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	y	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	4	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	7	620	PRO	N-CA-CB	-8.81	95.49	102.36
1	H	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	I	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	J	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	W	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	X	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	Y	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	l	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	m	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	n	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	1	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	2	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	3	620	PRO	N-CA-CB	-8.77	95.52	102.36
1	A	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	B	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	C	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	K	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	M	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	Q	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	R	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	T	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	V	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	a	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	b	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	d	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	e	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	f	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	g	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	o	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	q	620	PRO	N-CA-CB	-8.76	95.53	102.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	v	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	x	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	z	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	5	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	6	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	8	620	PRO	N-CA-CB	-8.76	95.53	102.36
1	E	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	F	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	G	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	N	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	O	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	P	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	i	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	j	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	k	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	r	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	s	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	t	620	PRO	N-CA-CB	-8.72	95.56	102.36
1	N	607	ILE	N-CA-C	8.65	118.66	110.53
1	P	607	ILE	N-CA-C	8.65	118.66	110.53
1	i	607	ILE	N-CA-C	8.65	118.66	110.53
1	k	607	ILE	N-CA-C	8.65	118.66	110.53
1	r	607	ILE	N-CA-C	8.65	118.66	110.53
1	s	607	ILE	N-CA-C	8.65	118.66	110.53
1	E	607	ILE	N-CA-C	8.63	118.64	110.53
1	F	607	ILE	N-CA-C	8.63	118.64	110.53
1	G	607	ILE	N-CA-C	8.63	118.64	110.53
1	O	607	ILE	N-CA-C	8.63	118.64	110.53
1	j	607	ILE	N-CA-C	8.63	118.64	110.53
1	t	607	ILE	N-CA-C	8.63	118.64	110.53
1	B	607	ILE	N-CA-C	8.61	118.63	110.53
1	M	607	ILE	N-CA-C	8.61	118.63	110.53
1	Q	607	ILE	N-CA-C	8.61	118.63	110.53
1	V	607	ILE	N-CA-C	8.61	118.63	110.53
1	a	607	ILE	N-CA-C	8.61	118.63	110.53
1	d	607	ILE	N-CA-C	8.61	118.63	110.53
1	f	607	ILE	N-CA-C	8.61	118.63	110.53
1	q	607	ILE	N-CA-C	8.61	118.63	110.53
1	u	607	ILE	N-CA-C	8.61	118.63	110.53
1	z	607	ILE	N-CA-C	8.61	118.63	110.53
1	5	607	ILE	N-CA-C	8.61	118.63	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	607	ILE	N-CA-C	8.61	118.63	110.53
1	A	607	ILE	N-CA-C	8.60	118.61	110.53
1	C	607	ILE	N-CA-C	8.60	118.61	110.53
1	K	607	ILE	N-CA-C	8.60	118.61	110.53
1	R	607	ILE	N-CA-C	8.60	118.61	110.53
1	T	607	ILE	N-CA-C	8.60	118.61	110.53
1	b	607	ILE	N-CA-C	8.60	118.61	110.53
1	e	607	ILE	N-CA-C	8.60	118.61	110.53
1	g	607	ILE	N-CA-C	8.60	118.61	110.53
1	o	607	ILE	N-CA-C	8.60	118.61	110.53
1	v	607	ILE	N-CA-C	8.60	118.61	110.53
1	x	607	ILE	N-CA-C	8.60	118.61	110.53
1	6	607	ILE	N-CA-C	8.60	118.61	110.53
1	D	607	ILE	N-CA-C	8.59	118.60	110.53
1	L	607	ILE	N-CA-C	8.59	118.60	110.53
1	S	607	ILE	N-CA-C	8.59	118.60	110.53
1	U	607	ILE	N-CA-C	8.59	118.60	110.53
1	Z	607	ILE	N-CA-C	8.59	118.60	110.53
1	c	607	ILE	N-CA-C	8.59	118.60	110.53
1	h	607	ILE	N-CA-C	8.59	118.60	110.53
1	p	607	ILE	N-CA-C	8.59	118.60	110.53
1	w	607	ILE	N-CA-C	8.59	118.60	110.53
1	y	607	ILE	N-CA-C	8.59	118.60	110.53
1	4	607	ILE	N-CA-C	8.59	118.60	110.53
1	7	607	ILE	N-CA-C	8.59	118.60	110.53
1	H	607	ILE	N-CA-C	8.56	118.57	110.53
1	I	607	ILE	N-CA-C	8.56	118.57	110.53
1	J	607	ILE	N-CA-C	8.56	118.57	110.53
1	W	607	ILE	N-CA-C	8.56	118.57	110.53
1	X	607	ILE	N-CA-C	8.56	118.57	110.53
1	Y	607	ILE	N-CA-C	8.56	118.57	110.53
1	l	607	ILE	N-CA-C	8.56	118.57	110.53
1	m	607	ILE	N-CA-C	8.56	118.57	110.53
1	n	607	ILE	N-CA-C	8.56	118.57	110.53
1	1	607	ILE	N-CA-C	8.56	118.57	110.53
1	2	607	ILE	N-CA-C	8.56	118.57	110.53
1	3	607	ILE	N-CA-C	8.56	118.57	110.53
1	H	357	PRO	N-CA-C	8.13	120.62	110.70
1	I	357	PRO	N-CA-C	8.13	120.62	110.70
1	J	357	PRO	N-CA-C	8.13	120.62	110.70
1	W	357	PRO	N-CA-C	8.13	120.62	110.70
1	X	357	PRO	N-CA-C	8.13	120.62	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	357	PRO	N-CA-C	8.13	120.62	110.70
1	l	357	PRO	N-CA-C	8.13	120.62	110.70
1	m	357	PRO	N-CA-C	8.13	120.62	110.70
1	n	357	PRO	N-CA-C	8.13	120.62	110.70
1	1	357	PRO	N-CA-C	8.13	120.62	110.70
1	2	357	PRO	N-CA-C	8.13	120.62	110.70
1	3	357	PRO	N-CA-C	8.13	120.62	110.70
1	B	357	PRO	N-CA-C	8.11	120.59	110.70
1	D	357	PRO	N-CA-C	8.11	120.59	110.70
1	L	357	PRO	N-CA-C	8.11	120.59	110.70
1	M	357	PRO	N-CA-C	8.11	120.59	110.70
1	Q	357	PRO	N-CA-C	8.11	120.59	110.70
1	S	357	PRO	N-CA-C	8.11	120.59	110.70
1	U	357	PRO	N-CA-C	8.11	120.59	110.70
1	V	357	PRO	N-CA-C	8.11	120.59	110.70
1	Z	357	PRO	N-CA-C	8.11	120.59	110.70
1	a	357	PRO	N-CA-C	8.11	120.59	110.70
1	c	357	PRO	N-CA-C	8.11	120.59	110.70
1	d	357	PRO	N-CA-C	8.11	120.59	110.70
1	f	357	PRO	N-CA-C	8.11	120.59	110.70
1	h	357	PRO	N-CA-C	8.11	120.59	110.70
1	p	357	PRO	N-CA-C	8.11	120.59	110.70
1	q	357	PRO	N-CA-C	8.11	120.59	110.70
1	u	357	PRO	N-CA-C	8.11	120.59	110.70
1	w	357	PRO	N-CA-C	8.11	120.59	110.70
1	y	357	PRO	N-CA-C	8.11	120.59	110.70
1	z	357	PRO	N-CA-C	8.11	120.59	110.70
1	4	357	PRO	N-CA-C	8.11	120.59	110.70
1	5	357	PRO	N-CA-C	8.11	120.59	110.70
1	7	357	PRO	N-CA-C	8.11	120.59	110.70
1	8	357	PRO	N-CA-C	8.11	120.59	110.70
1	A	357	PRO	N-CA-C	8.10	120.58	110.70
1	C	357	PRO	N-CA-C	8.10	120.58	110.70
1	K	357	PRO	N-CA-C	8.10	120.58	110.70
1	R	357	PRO	N-CA-C	8.10	120.58	110.70
1	T	357	PRO	N-CA-C	8.10	120.58	110.70
1	b	357	PRO	N-CA-C	8.10	120.58	110.70
1	e	357	PRO	N-CA-C	8.10	120.58	110.70
1	g	357	PRO	N-CA-C	8.10	120.58	110.70
1	o	357	PRO	N-CA-C	8.10	120.58	110.70
1	v	357	PRO	N-CA-C	8.10	120.58	110.70
1	x	357	PRO	N-CA-C	8.10	120.58	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	357	PRO	N-CA-C	8.10	120.58	110.70
1	E	357	PRO	N-CA-C	8.08	120.56	110.70
1	F	357	PRO	N-CA-C	8.08	120.56	110.70
1	G	357	PRO	N-CA-C	8.08	120.56	110.70
1	N	357	PRO	N-CA-C	8.08	120.56	110.70
1	O	357	PRO	N-CA-C	8.08	120.56	110.70
1	P	357	PRO	N-CA-C	8.08	120.56	110.70
1	i	357	PRO	N-CA-C	8.08	120.56	110.70
1	j	357	PRO	N-CA-C	8.08	120.56	110.70
1	k	357	PRO	N-CA-C	8.08	120.56	110.70
1	r	357	PRO	N-CA-C	8.08	120.56	110.70
1	s	357	PRO	N-CA-C	8.08	120.56	110.70
1	t	357	PRO	N-CA-C	8.08	120.56	110.70
1	D	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	L	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	S	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	U	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	Z	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	c	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	h	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	p	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	w	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	y	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	4	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	7	275	PHE	CA-CB-CG	7.78	121.58	113.80
1	I	429	PRO	N-CA-CB	-7.78	94.77	103.33
1	Y	429	PRO	N-CA-CB	-7.78	94.77	103.33
1	n	429	PRO	N-CA-CB	-7.78	94.77	103.33
1	B	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	M	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	Q	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	a	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	d	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	f	429	PRO	N-CA-CB	-7.77	94.79	103.33
1	A	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	C	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	K	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	R	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	T	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	b	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	e	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	g	275	PHE	CA-CB-CG	7.77	121.57	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	v	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	x	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	6	275	PHE	CA-CB-CG	7.77	121.57	113.80
1	H	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	I	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	J	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	W	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	X	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	Y	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	l	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	m	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	n	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	1	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	2	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	3	275	PHE	CA-CB-CG	7.76	121.56	113.80
1	B	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	E	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	F	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	G	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	M	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	N	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	O	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	P	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	Q	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	V	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	a	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	d	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	f	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	i	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	j	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	k	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	q	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	r	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	s	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	t	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	u	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	z	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	5	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	8	275	PHE	CA-CB-CG	7.75	121.55	113.80
1	A	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	C	429	PRO	N-CA-CB	-7.74	94.81	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	R	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	T	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	b	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	e	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	g	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	o	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	v	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	x	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	6	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	E	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	F	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	G	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	P	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	k	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	r	429	PRO	N-CA-CB	-7.74	94.81	103.33
1	H	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	J	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	W	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	X	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	l	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	m	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	N	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	O	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	V	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	i	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	j	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	q	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	s	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	t	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	u	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	z	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	1	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	2	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	3	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	5	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	8	429	PRO	N-CA-CB	-7.74	94.82	103.33
1	D	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	L	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	S	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	U	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	Z	429	PRO	N-CA-CB	-7.72	94.83	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	h	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	p	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	w	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	y	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	4	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	7	429	PRO	N-CA-CB	-7.72	94.83	103.33
1	H	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	I	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	J	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	W	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	X	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	Y	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	l	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	m	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	n	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	1	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	2	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	3	413	PHE	CA-CB-CG	7.67	121.47	113.80
1	A	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	C	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	K	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	R	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	T	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	b	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	e	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	g	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	o	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	v	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	x	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	6	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	B	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	M	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	Q	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	V	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	a	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	d	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	f	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	q	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	u	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	z	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	5	413	PHE	CA-CB-CG	7.66	121.46	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	413	PHE	CA-CB-CG	7.66	121.46	113.80
1	E	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	F	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	G	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	N	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	O	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	P	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	i	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	j	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	k	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	r	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	s	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	t	413	PHE	CA-CB-CG	7.65	121.45	113.80
1	D	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	L	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	S	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	U	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	Z	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	c	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	h	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	p	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	w	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	y	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	4	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	7	413	PHE	CA-CB-CG	7.64	121.44	113.80
1	A	644	PRO	N-CA-C	7.60	123.47	111.38
1	C	644	PRO	N-CA-C	7.60	123.47	111.38
1	K	644	PRO	N-CA-C	7.60	123.47	111.38
1	R	644	PRO	N-CA-C	7.60	123.47	111.38
1	T	644	PRO	N-CA-C	7.60	123.47	111.38
1	b	644	PRO	N-CA-C	7.60	123.47	111.38
1	e	644	PRO	N-CA-C	7.60	123.47	111.38
1	g	644	PRO	N-CA-C	7.60	123.47	111.38
1	o	644	PRO	N-CA-C	7.60	123.47	111.38
1	v	644	PRO	N-CA-C	7.60	123.47	111.38
1	x	644	PRO	N-CA-C	7.60	123.47	111.38
1	6	644	PRO	N-CA-C	7.60	123.47	111.38
1	E	644	PRO	N-CA-C	7.60	123.46	111.38
1	F	644	PRO	N-CA-C	7.60	123.46	111.38
1	G	644	PRO	N-CA-C	7.60	123.46	111.38
1	N	644	PRO	N-CA-C	7.60	123.46	111.38
1	O	644	PRO	N-CA-C	7.60	123.46	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	644	PRO	N-CA-C	7.60	123.46	111.38
1	i	644	PRO	N-CA-C	7.60	123.46	111.38
1	j	644	PRO	N-CA-C	7.60	123.46	111.38
1	k	644	PRO	N-CA-C	7.60	123.46	111.38
1	r	644	PRO	N-CA-C	7.60	123.46	111.38
1	s	644	PRO	N-CA-C	7.60	123.46	111.38
1	t	644	PRO	N-CA-C	7.60	123.46	111.38
1	H	644	PRO	N-CA-C	7.59	123.45	111.38
1	I	644	PRO	N-CA-C	7.59	123.45	111.38
1	J	644	PRO	N-CA-C	7.59	123.45	111.38
1	W	644	PRO	N-CA-C	7.59	123.45	111.38
1	X	644	PRO	N-CA-C	7.59	123.45	111.38
1	Y	644	PRO	N-CA-C	7.59	123.45	111.38
1	l	644	PRO	N-CA-C	7.59	123.45	111.38
1	m	644	PRO	N-CA-C	7.59	123.45	111.38
1	n	644	PRO	N-CA-C	7.59	123.45	111.38
1	1	644	PRO	N-CA-C	7.59	123.45	111.38
1	2	644	PRO	N-CA-C	7.59	123.45	111.38
1	3	644	PRO	N-CA-C	7.59	123.45	111.38
1	D	644	PRO	N-CA-C	7.59	123.44	111.38
1	L	644	PRO	N-CA-C	7.59	123.44	111.38
1	S	644	PRO	N-CA-C	7.59	123.44	111.38
1	U	644	PRO	N-CA-C	7.59	123.44	111.38
1	Z	644	PRO	N-CA-C	7.59	123.44	111.38
1	c	644	PRO	N-CA-C	7.59	123.44	111.38
1	h	644	PRO	N-CA-C	7.59	123.44	111.38
1	p	644	PRO	N-CA-C	7.59	123.44	111.38
1	w	644	PRO	N-CA-C	7.59	123.44	111.38
1	y	644	PRO	N-CA-C	7.59	123.44	111.38
1	4	644	PRO	N-CA-C	7.59	123.44	111.38
1	7	644	PRO	N-CA-C	7.59	123.44	111.38
1	B	644	PRO	N-CA-C	7.58	123.44	111.38
1	M	644	PRO	N-CA-C	7.58	123.44	111.38
1	Q	644	PRO	N-CA-C	7.58	123.44	111.38
1	V	644	PRO	N-CA-C	7.58	123.44	111.38
1	a	644	PRO	N-CA-C	7.58	123.44	111.38
1	d	644	PRO	N-CA-C	7.58	123.44	111.38
1	f	644	PRO	N-CA-C	7.58	123.44	111.38
1	q	644	PRO	N-CA-C	7.58	123.44	111.38
1	u	644	PRO	N-CA-C	7.58	123.44	111.38
1	z	644	PRO	N-CA-C	7.58	123.44	111.38
1	5	644	PRO	N-CA-C	7.58	123.44	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	644	PRO	N-CA-C	7.58	123.44	111.38
1	D	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	L	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	S	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	U	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	Z	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	c	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	h	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	p	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	w	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	y	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	4	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	7	468	PRO	N-CA-CB	-7.54	96.60	103.31
1	H	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	I	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	J	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	O	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	P	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	W	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	X	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	Y	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	j	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	k	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	l	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	m	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	n	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	r	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	t	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	1	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	2	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	3	468	PRO	N-CA-CB	-7.53	96.61	103.31
1	A	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	C	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	K	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	R	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	T	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	b	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	e	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	g	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	o	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	v	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	x	468	PRO	N-CA-CB	-7.52	96.62	103.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	B	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	M	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	Q	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	V	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	a	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	d	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	f	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	q	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	u	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	z	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	5	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	8	468	PRO	N-CA-CB	-7.52	96.62	103.31
1	E	506	PRO	N-CA-C	-7.50	98.32	110.55
1	F	506	PRO	N-CA-C	-7.50	98.32	110.55
1	G	506	PRO	N-CA-C	-7.50	98.32	110.55
1	O	506	PRO	N-CA-C	-7.50	98.32	110.55
1	j	506	PRO	N-CA-C	-7.50	98.32	110.55
1	t	506	PRO	N-CA-C	-7.50	98.32	110.55
1	E	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	F	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	G	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	N	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	i	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	s	468	PRO	N-CA-CB	-7.50	96.64	103.31
1	B	634	PRO	N-CA-C	7.50	123.30	111.38
1	M	634	PRO	N-CA-C	7.50	123.30	111.38
1	N	506	PRO	N-CA-C	-7.50	98.33	110.55
1	P	506	PRO	N-CA-C	-7.50	98.33	110.55
1	Q	634	PRO	N-CA-C	7.50	123.30	111.38
1	V	634	PRO	N-CA-C	7.50	123.30	111.38
1	a	634	PRO	N-CA-C	7.50	123.30	111.38
1	d	634	PRO	N-CA-C	7.50	123.30	111.38
1	f	634	PRO	N-CA-C	7.50	123.30	111.38
1	i	506	PRO	N-CA-C	-7.50	98.33	110.55
1	k	506	PRO	N-CA-C	-7.50	98.33	110.55
1	q	634	PRO	N-CA-C	7.50	123.30	111.38
1	r	506	PRO	N-CA-C	-7.50	98.33	110.55
1	s	506	PRO	N-CA-C	-7.50	98.33	110.55
1	u	634	PRO	N-CA-C	7.50	123.30	111.38
1	z	634	PRO	N-CA-C	7.50	123.30	111.38
1	5	634	PRO	N-CA-C	7.50	123.30	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	634	PRO	N-CA-C	7.50	123.30	111.38
1	D	506	PRO	N-CA-C	-7.49	98.34	110.55
1	L	506	PRO	N-CA-C	-7.49	98.34	110.55
1	S	506	PRO	N-CA-C	-7.49	98.34	110.55
1	U	506	PRO	N-CA-C	-7.49	98.34	110.55
1	Z	506	PRO	N-CA-C	-7.49	98.34	110.55
1	c	506	PRO	N-CA-C	-7.49	98.34	110.55
1	h	506	PRO	N-CA-C	-7.49	98.34	110.55
1	p	506	PRO	N-CA-C	-7.49	98.34	110.55
1	w	506	PRO	N-CA-C	-7.49	98.34	110.55
1	y	506	PRO	N-CA-C	-7.49	98.34	110.55
1	4	506	PRO	N-CA-C	-7.49	98.34	110.55
1	7	506	PRO	N-CA-C	-7.49	98.34	110.55
1	B	506	PRO	N-CA-C	-7.49	98.35	110.55
1	M	506	PRO	N-CA-C	-7.49	98.35	110.55
1	Q	506	PRO	N-CA-C	-7.49	98.35	110.55
1	V	506	PRO	N-CA-C	-7.49	98.35	110.55
1	a	506	PRO	N-CA-C	-7.49	98.35	110.55
1	d	506	PRO	N-CA-C	-7.49	98.35	110.55
1	f	506	PRO	N-CA-C	-7.49	98.35	110.55
1	q	506	PRO	N-CA-C	-7.49	98.35	110.55
1	u	506	PRO	N-CA-C	-7.49	98.35	110.55
1	z	506	PRO	N-CA-C	-7.49	98.35	110.55
1	5	506	PRO	N-CA-C	-7.49	98.35	110.55
1	8	506	PRO	N-CA-C	-7.49	98.35	110.55
1	H	634	PRO	N-CA-C	7.48	123.28	111.38
1	I	634	PRO	N-CA-C	7.48	123.28	111.38
1	J	634	PRO	N-CA-C	7.48	123.28	111.38
1	W	634	PRO	N-CA-C	7.48	123.28	111.38
1	X	634	PRO	N-CA-C	7.48	123.28	111.38
1	Y	634	PRO	N-CA-C	7.48	123.28	111.38
1	l	634	PRO	N-CA-C	7.48	123.28	111.38
1	m	634	PRO	N-CA-C	7.48	123.28	111.38
1	n	634	PRO	N-CA-C	7.48	123.28	111.38
1	1	634	PRO	N-CA-C	7.48	123.28	111.38
1	2	634	PRO	N-CA-C	7.48	123.28	111.38
1	3	634	PRO	N-CA-C	7.48	123.28	111.38
1	A	506	PRO	N-CA-C	-7.48	98.36	110.55
1	C	506	PRO	N-CA-C	-7.48	98.36	110.55
1	E	634	PRO	N-CA-C	7.48	123.27	111.38
1	F	634	PRO	N-CA-C	7.48	123.27	111.38
1	G	634	PRO	N-CA-C	7.48	123.27	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	506	PRO	N-CA-C	-7.48	98.36	110.55
1	P	634	PRO	N-CA-C	7.48	123.27	111.38
1	R	506	PRO	N-CA-C	-7.48	98.36	110.55
1	T	506	PRO	N-CA-C	-7.48	98.36	110.55
1	b	506	PRO	N-CA-C	-7.48	98.36	110.55
1	e	506	PRO	N-CA-C	-7.48	98.36	110.55
1	g	506	PRO	N-CA-C	-7.48	98.36	110.55
1	k	634	PRO	N-CA-C	7.48	123.27	111.38
1	o	506	PRO	N-CA-C	-7.48	98.36	110.55
1	r	634	PRO	N-CA-C	7.48	123.27	111.38
1	v	506	PRO	N-CA-C	-7.48	98.36	110.55
1	x	506	PRO	N-CA-C	-7.48	98.36	110.55
1	6	506	PRO	N-CA-C	-7.48	98.36	110.55
1	H	506	PRO	N-CA-C	-7.47	98.37	110.55
1	I	506	PRO	N-CA-C	-7.47	98.37	110.55
1	J	506	PRO	N-CA-C	-7.47	98.37	110.55
1	W	506	PRO	N-CA-C	-7.47	98.37	110.55
1	X	506	PRO	N-CA-C	-7.47	98.37	110.55
1	Y	506	PRO	N-CA-C	-7.47	98.37	110.55
1	l	506	PRO	N-CA-C	-7.47	98.37	110.55
1	m	506	PRO	N-CA-C	-7.47	98.37	110.55
1	n	506	PRO	N-CA-C	-7.47	98.37	110.55
1	1	506	PRO	N-CA-C	-7.47	98.37	110.55
1	2	506	PRO	N-CA-C	-7.47	98.37	110.55
1	3	506	PRO	N-CA-C	-7.47	98.37	110.55
1	N	634	PRO	N-CA-C	7.47	123.26	111.38
1	O	634	PRO	N-CA-C	7.47	123.26	111.38
1	i	634	PRO	N-CA-C	7.47	123.26	111.38
1	j	634	PRO	N-CA-C	7.47	123.26	111.38
1	s	634	PRO	N-CA-C	7.47	123.26	111.38
1	t	634	PRO	N-CA-C	7.47	123.26	111.38
1	A	634	PRO	N-CA-C	7.46	123.24	111.38
1	C	634	PRO	N-CA-C	7.46	123.24	111.38
1	K	634	PRO	N-CA-C	7.46	123.24	111.38
1	R	634	PRO	N-CA-C	7.46	123.24	111.38
1	T	634	PRO	N-CA-C	7.46	123.24	111.38
1	b	634	PRO	N-CA-C	7.46	123.24	111.38
1	e	634	PRO	N-CA-C	7.46	123.24	111.38
1	g	634	PRO	N-CA-C	7.46	123.24	111.38
1	o	634	PRO	N-CA-C	7.46	123.24	111.38
1	v	634	PRO	N-CA-C	7.46	123.24	111.38
1	x	634	PRO	N-CA-C	7.46	123.24	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	634	PRO	N-CA-C	7.46	123.24	111.38
1	D	634	PRO	N-CA-C	7.46	123.24	111.38
1	L	634	PRO	N-CA-C	7.46	123.24	111.38
1	S	634	PRO	N-CA-C	7.46	123.24	111.38
1	U	634	PRO	N-CA-C	7.46	123.24	111.38
1	Z	634	PRO	N-CA-C	7.46	123.24	111.38
1	c	634	PRO	N-CA-C	7.46	123.24	111.38
1	h	634	PRO	N-CA-C	7.46	123.24	111.38
1	p	634	PRO	N-CA-C	7.46	123.24	111.38
1	w	634	PRO	N-CA-C	7.46	123.24	111.38
1	y	634	PRO	N-CA-C	7.46	123.24	111.38
1	4	634	PRO	N-CA-C	7.46	123.24	111.38
1	7	634	PRO	N-CA-C	7.46	123.24	111.38
1	E	695	ASP	CB-CA-C	7.40	117.66	110.71
1	F	695	ASP	CB-CA-C	7.40	117.66	110.71
1	G	695	ASP	CB-CA-C	7.40	117.66	110.71
1	N	695	ASP	CB-CA-C	7.40	117.66	110.71
1	O	695	ASP	CB-CA-C	7.40	117.66	110.71
1	P	695	ASP	CB-CA-C	7.40	117.66	110.71
1	i	695	ASP	CB-CA-C	7.40	117.66	110.71
1	j	695	ASP	CB-CA-C	7.40	117.66	110.71
1	k	695	ASP	CB-CA-C	7.40	117.66	110.71
1	r	695	ASP	CB-CA-C	7.40	117.66	110.71
1	s	695	ASP	CB-CA-C	7.40	117.66	110.71
1	t	695	ASP	CB-CA-C	7.40	117.66	110.71
1	H	695	ASP	CB-CA-C	7.37	117.64	110.71
1	I	695	ASP	CB-CA-C	7.37	117.64	110.71
1	J	695	ASP	CB-CA-C	7.37	117.64	110.71
1	W	695	ASP	CB-CA-C	7.37	117.64	110.71
1	X	695	ASP	CB-CA-C	7.37	117.64	110.71
1	Y	695	ASP	CB-CA-C	7.37	117.64	110.71
1	l	695	ASP	CB-CA-C	7.37	117.64	110.71
1	m	695	ASP	CB-CA-C	7.37	117.64	110.71
1	n	695	ASP	CB-CA-C	7.37	117.64	110.71
1	1	695	ASP	CB-CA-C	7.37	117.64	110.71
1	2	695	ASP	CB-CA-C	7.37	117.64	110.71
1	3	695	ASP	CB-CA-C	7.37	117.64	110.71
1	D	515	LEU	N-CA-C	7.36	119.38	111.36
1	L	515	LEU	N-CA-C	7.36	119.38	111.36
1	S	515	LEU	N-CA-C	7.36	119.38	111.36
1	Z	515	LEU	N-CA-C	7.36	119.38	111.36
1	c	515	LEU	N-CA-C	7.36	119.38	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	515	LEU	N-CA-C	7.36	119.38	111.36
1	A	695	ASP	CB-CA-C	7.35	117.62	110.71
1	C	695	ASP	CB-CA-C	7.35	117.62	110.71
1	K	695	ASP	CB-CA-C	7.35	117.62	110.71
1	R	695	ASP	CB-CA-C	7.35	117.62	110.71
1	T	695	ASP	CB-CA-C	7.35	117.62	110.71
1	b	695	ASP	CB-CA-C	7.35	117.62	110.71
1	e	695	ASP	CB-CA-C	7.35	117.62	110.71
1	g	695	ASP	CB-CA-C	7.35	117.62	110.71
1	o	695	ASP	CB-CA-C	7.35	117.62	110.71
1	v	695	ASP	CB-CA-C	7.35	117.62	110.71
1	x	695	ASP	CB-CA-C	7.35	117.62	110.71
1	6	695	ASP	CB-CA-C	7.35	117.62	110.71
1	E	515	LEU	N-CA-C	7.34	119.36	111.36
1	F	515	LEU	N-CA-C	7.34	119.36	111.36
1	G	515	LEU	N-CA-C	7.34	119.36	111.36
1	N	515	LEU	N-CA-C	7.34	119.36	111.36
1	O	515	LEU	N-CA-C	7.34	119.36	111.36
1	P	515	LEU	N-CA-C	7.34	119.36	111.36
1	i	515	LEU	N-CA-C	7.34	119.36	111.36
1	j	515	LEU	N-CA-C	7.34	119.36	111.36
1	k	515	LEU	N-CA-C	7.34	119.36	111.36
1	r	515	LEU	N-CA-C	7.34	119.36	111.36
1	s	515	LEU	N-CA-C	7.34	119.36	111.36
1	t	515	LEU	N-CA-C	7.34	119.36	111.36
1	U	515	LEU	N-CA-C	7.33	119.35	111.36
1	p	515	LEU	N-CA-C	7.33	119.35	111.36
1	w	515	LEU	N-CA-C	7.33	119.35	111.36
1	y	515	LEU	N-CA-C	7.33	119.35	111.36
1	4	515	LEU	N-CA-C	7.33	119.35	111.36
1	7	515	LEU	N-CA-C	7.33	119.35	111.36
1	B	695	ASP	CB-CA-C	7.33	117.60	110.71
1	M	695	ASP	CB-CA-C	7.33	117.60	110.71
1	Q	695	ASP	CB-CA-C	7.33	117.60	110.71
1	V	695	ASP	CB-CA-C	7.33	117.60	110.71
1	a	695	ASP	CB-CA-C	7.33	117.60	110.71
1	d	695	ASP	CB-CA-C	7.33	117.60	110.71
1	f	695	ASP	CB-CA-C	7.33	117.60	110.71
1	q	695	ASP	CB-CA-C	7.33	117.60	110.71
1	u	695	ASP	CB-CA-C	7.33	117.60	110.71
1	z	695	ASP	CB-CA-C	7.33	117.60	110.71
1	5	695	ASP	CB-CA-C	7.33	117.60	110.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	695	ASP	CB-CA-C	7.33	117.60	110.71
1	A	515	LEU	N-CA-C	7.32	119.34	111.36
1	B	515	LEU	N-CA-C	7.32	119.34	111.36
1	C	515	LEU	N-CA-C	7.32	119.34	111.36
1	K	515	LEU	N-CA-C	7.32	119.34	111.36
1	M	515	LEU	N-CA-C	7.32	119.34	111.36
1	Q	515	LEU	N-CA-C	7.32	119.34	111.36
1	R	515	LEU	N-CA-C	7.32	119.34	111.36
1	T	515	LEU	N-CA-C	7.32	119.34	111.36
1	V	515	LEU	N-CA-C	7.32	119.34	111.36
1	a	515	LEU	N-CA-C	7.32	119.34	111.36
1	b	515	LEU	N-CA-C	7.32	119.34	111.36
1	d	515	LEU	N-CA-C	7.32	119.34	111.36
1	e	515	LEU	N-CA-C	7.32	119.34	111.36
1	f	515	LEU	N-CA-C	7.32	119.34	111.36
1	g	515	LEU	N-CA-C	7.32	119.34	111.36
1	o	515	LEU	N-CA-C	7.32	119.34	111.36
1	q	515	LEU	N-CA-C	7.32	119.34	111.36
1	u	515	LEU	N-CA-C	7.32	119.34	111.36
1	v	515	LEU	N-CA-C	7.32	119.34	111.36
1	x	515	LEU	N-CA-C	7.32	119.34	111.36
1	z	515	LEU	N-CA-C	7.32	119.34	111.36
1	5	515	LEU	N-CA-C	7.32	119.34	111.36
1	6	515	LEU	N-CA-C	7.32	119.34	111.36
1	8	515	LEU	N-CA-C	7.32	119.34	111.36
1	D	695	ASP	CB-CA-C	7.31	117.58	110.71
1	L	695	ASP	CB-CA-C	7.31	117.58	110.71
1	S	695	ASP	CB-CA-C	7.31	117.58	110.71
1	U	695	ASP	CB-CA-C	7.31	117.58	110.71
1	Z	695	ASP	CB-CA-C	7.31	117.58	110.71
1	c	695	ASP	CB-CA-C	7.31	117.58	110.71
1	h	695	ASP	CB-CA-C	7.31	117.58	110.71
1	p	695	ASP	CB-CA-C	7.31	117.58	110.71
1	w	695	ASP	CB-CA-C	7.31	117.58	110.71
1	y	695	ASP	CB-CA-C	7.31	117.58	110.71
1	4	695	ASP	CB-CA-C	7.31	117.58	110.71
1	7	695	ASP	CB-CA-C	7.31	117.58	110.71
1	H	515	LEU	N-CA-C	7.30	119.31	111.36
1	J	515	LEU	N-CA-C	7.30	119.31	111.36
1	W	515	LEU	N-CA-C	7.30	119.31	111.36
1	X	515	LEU	N-CA-C	7.30	119.31	111.36
1	l	515	LEU	N-CA-C	7.30	119.31	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	515	LEU	N-CA-C	7.30	119.31	111.36
1	I	515	LEU	N-CA-C	7.29	119.31	111.36
1	Y	515	LEU	N-CA-C	7.29	119.31	111.36
1	n	515	LEU	N-CA-C	7.29	119.31	111.36
1	1	515	LEU	N-CA-C	7.29	119.31	111.36
1	2	515	LEU	N-CA-C	7.29	119.31	111.36
1	3	515	LEU	N-CA-C	7.29	119.31	111.36
1	B	444	THR	N-CA-C	-7.25	97.79	109.96
1	M	444	THR	N-CA-C	-7.25	97.79	109.96
1	Q	444	THR	N-CA-C	-7.25	97.79	109.96
1	V	444	THR	N-CA-C	-7.25	97.79	109.96
1	a	444	THR	N-CA-C	-7.25	97.79	109.96
1	d	444	THR	N-CA-C	-7.25	97.79	109.96
1	f	444	THR	N-CA-C	-7.25	97.79	109.96
1	q	444	THR	N-CA-C	-7.25	97.79	109.96
1	u	444	THR	N-CA-C	-7.25	97.79	109.96
1	z	444	THR	N-CA-C	-7.25	97.79	109.96
1	5	444	THR	N-CA-C	-7.25	97.79	109.96
1	8	444	THR	N-CA-C	-7.25	97.79	109.96
1	H	444	THR	N-CA-C	-7.24	97.79	109.96
1	I	444	THR	N-CA-C	-7.24	97.79	109.96
1	X	444	THR	N-CA-C	-7.24	97.79	109.96
1	Y	444	THR	N-CA-C	-7.24	97.79	109.96
1	m	444	THR	N-CA-C	-7.24	97.79	109.96
1	n	444	THR	N-CA-C	-7.24	97.79	109.96
1	A	444	THR	N-CA-C	-7.22	97.83	109.96
1	C	444	THR	N-CA-C	-7.22	97.83	109.96
1	K	444	THR	N-CA-C	-7.22	97.83	109.96
1	R	444	THR	N-CA-C	-7.22	97.83	109.96
1	T	444	THR	N-CA-C	-7.22	97.83	109.96
1	b	444	THR	N-CA-C	-7.22	97.83	109.96
1	e	444	THR	N-CA-C	-7.22	97.83	109.96
1	g	444	THR	N-CA-C	-7.22	97.83	109.96
1	o	444	THR	N-CA-C	-7.22	97.83	109.96
1	v	444	THR	N-CA-C	-7.22	97.83	109.96
1	x	444	THR	N-CA-C	-7.22	97.83	109.96
1	6	444	THR	N-CA-C	-7.22	97.83	109.96
1	E	444	THR	N-CA-C	-7.22	97.83	109.96
1	F	444	THR	N-CA-C	-7.22	97.83	109.96
1	G	444	THR	N-CA-C	-7.22	97.83	109.96
1	J	444	THR	N-CA-C	-7.22	97.83	109.96
1	N	444	THR	N-CA-C	-7.22	97.83	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	444	THR	N-CA-C	-7.22	97.83	109.96
1	P	444	THR	N-CA-C	-7.22	97.83	109.96
1	W	444	THR	N-CA-C	-7.22	97.83	109.96
1	i	444	THR	N-CA-C	-7.22	97.83	109.96
1	j	444	THR	N-CA-C	-7.22	97.83	109.96
1	k	444	THR	N-CA-C	-7.22	97.83	109.96
1	l	444	THR	N-CA-C	-7.22	97.83	109.96
1	r	444	THR	N-CA-C	-7.22	97.83	109.96
1	s	444	THR	N-CA-C	-7.22	97.83	109.96
1	t	444	THR	N-CA-C	-7.22	97.83	109.96
1	1	444	THR	N-CA-C	-7.22	97.83	109.96
1	2	444	THR	N-CA-C	-7.22	97.83	109.96
1	3	444	THR	N-CA-C	-7.22	97.83	109.96
1	D	444	THR	N-CA-C	-7.21	97.86	109.96
1	L	444	THR	N-CA-C	-7.21	97.86	109.96
1	S	444	THR	N-CA-C	-7.21	97.86	109.96
1	U	444	THR	N-CA-C	-7.21	97.86	109.96
1	Z	444	THR	N-CA-C	-7.21	97.86	109.96
1	c	444	THR	N-CA-C	-7.21	97.86	109.96
1	h	444	THR	N-CA-C	-7.21	97.86	109.96
1	p	444	THR	N-CA-C	-7.21	97.86	109.96
1	w	444	THR	N-CA-C	-7.21	97.86	109.96
1	y	444	THR	N-CA-C	-7.21	97.86	109.96
1	4	444	THR	N-CA-C	-7.21	97.86	109.96
1	7	444	THR	N-CA-C	-7.21	97.86	109.96
1	A	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	C	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	K	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	R	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	T	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	b	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	e	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	g	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	o	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	v	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	x	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	6	529	PHE	CA-CB-CG	7.15	120.95	113.80
1	D	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	L	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	c	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	w	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	y	529	PHE	CA-CB-CG	7.14	120.94	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	E	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	F	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	G	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	N	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	O	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	P	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	i	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	j	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	k	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	r	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	s	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	t	529	PHE	CA-CB-CG	7.14	120.94	113.80
1	D	516	GLN	N-CA-CB	7.14	122.55	110.49
1	L	516	GLN	N-CA-CB	7.14	122.55	110.49
1	S	516	GLN	N-CA-CB	7.14	122.55	110.49
1	U	516	GLN	N-CA-CB	7.14	122.55	110.49
1	Z	516	GLN	N-CA-CB	7.14	122.55	110.49
1	c	516	GLN	N-CA-CB	7.14	122.55	110.49
1	h	516	GLN	N-CA-CB	7.14	122.55	110.49
1	p	516	GLN	N-CA-CB	7.14	122.55	110.49
1	w	516	GLN	N-CA-CB	7.14	122.55	110.49
1	y	516	GLN	N-CA-CB	7.14	122.55	110.49
1	4	516	GLN	N-CA-CB	7.14	122.55	110.49
1	7	516	GLN	N-CA-CB	7.14	122.55	110.49
1	H	516	GLN	N-CA-CB	7.14	122.55	110.49
1	X	516	GLN	N-CA-CB	7.14	122.55	110.49
1	m	516	GLN	N-CA-CB	7.14	122.55	110.49
1	1	516	GLN	N-CA-CB	7.14	122.55	110.49
1	2	516	GLN	N-CA-CB	7.14	122.55	110.49
1	3	516	GLN	N-CA-CB	7.14	122.55	110.49
1	E	516	GLN	N-CA-CB	7.13	122.55	110.49
1	F	516	GLN	N-CA-CB	7.13	122.55	110.49
1	G	516	GLN	N-CA-CB	7.13	122.55	110.49
1	N	516	GLN	N-CA-CB	7.13	122.55	110.49
1	O	516	GLN	N-CA-CB	7.13	122.55	110.49
1	P	516	GLN	N-CA-CB	7.13	122.55	110.49
1	i	516	GLN	N-CA-CB	7.13	122.55	110.49
1	j	516	GLN	N-CA-CB	7.13	122.55	110.49
1	k	516	GLN	N-CA-CB	7.13	122.55	110.49
1	r	516	GLN	N-CA-CB	7.13	122.55	110.49
1	s	516	GLN	N-CA-CB	7.13	122.55	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	516	GLN	N-CA-CB	7.13	122.55	110.49
1	B	516	GLN	N-CA-CB	7.13	122.54	110.49
1	M	516	GLN	N-CA-CB	7.13	122.54	110.49
1	Q	516	GLN	N-CA-CB	7.13	122.54	110.49
1	V	516	GLN	N-CA-CB	7.13	122.54	110.49
1	a	516	GLN	N-CA-CB	7.13	122.54	110.49
1	d	516	GLN	N-CA-CB	7.13	122.54	110.49
1	f	516	GLN	N-CA-CB	7.13	122.54	110.49
1	q	516	GLN	N-CA-CB	7.13	122.54	110.49
1	u	516	GLN	N-CA-CB	7.13	122.54	110.49
1	z	516	GLN	N-CA-CB	7.13	122.54	110.49
1	5	516	GLN	N-CA-CB	7.13	122.54	110.49
1	8	516	GLN	N-CA-CB	7.13	122.54	110.49
1	A	516	GLN	N-CA-CB	7.13	122.53	110.49
1	C	516	GLN	N-CA-CB	7.13	122.53	110.49
1	K	516	GLN	N-CA-CB	7.13	122.53	110.49
1	R	516	GLN	N-CA-CB	7.13	122.53	110.49
1	T	516	GLN	N-CA-CB	7.13	122.53	110.49
1	b	516	GLN	N-CA-CB	7.13	122.53	110.49
1	e	516	GLN	N-CA-CB	7.13	122.53	110.49
1	g	516	GLN	N-CA-CB	7.13	122.53	110.49
1	o	516	GLN	N-CA-CB	7.13	122.53	110.49
1	v	516	GLN	N-CA-CB	7.13	122.53	110.49
1	x	516	GLN	N-CA-CB	7.13	122.53	110.49
1	6	516	GLN	N-CA-CB	7.13	122.53	110.49
1	H	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	I	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	J	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	W	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	X	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	Y	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	l	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	m	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	n	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	1	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	2	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	3	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	I	516	GLN	N-CA-CB	7.12	122.53	110.49
1	J	516	GLN	N-CA-CB	7.12	122.53	110.49
1	W	516	GLN	N-CA-CB	7.12	122.53	110.49
1	Y	516	GLN	N-CA-CB	7.12	122.53	110.49
1	l	516	GLN	N-CA-CB	7.12	122.53	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	516	GLN	N-CA-CB	7.12	122.53	110.49
1	S	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	U	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	Z	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	h	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	p	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	4	529	PHE	CA-CB-CG	7.12	120.92	113.80
1	Q	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	V	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	a	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	f	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	q	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	5	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	B	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	M	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	d	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	u	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	z	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	8	529	PHE	CA-CB-CG	7.11	120.91	113.80
1	H	400	ASN	N-CA-C	6.81	119.52	110.53
1	I	400	ASN	N-CA-C	6.81	119.52	110.53
1	J	400	ASN	N-CA-C	6.81	119.52	110.53
1	W	400	ASN	N-CA-C	6.81	119.52	110.53
1	X	400	ASN	N-CA-C	6.81	119.52	110.53
1	Y	400	ASN	N-CA-C	6.81	119.52	110.53
1	l	400	ASN	N-CA-C	6.81	119.52	110.53
1	m	400	ASN	N-CA-C	6.81	119.52	110.53
1	n	400	ASN	N-CA-C	6.81	119.52	110.53
1	1	400	ASN	N-CA-C	6.81	119.52	110.53
1	2	400	ASN	N-CA-C	6.81	119.52	110.53
1	3	400	ASN	N-CA-C	6.81	119.52	110.53
1	B	400	ASN	N-CA-C	6.80	119.50	110.53
1	D	400	ASN	N-CA-C	6.80	119.51	110.53
1	L	400	ASN	N-CA-C	6.80	119.51	110.53
1	M	400	ASN	N-CA-C	6.80	119.50	110.53
1	Q	400	ASN	N-CA-C	6.80	119.50	110.53
1	S	400	ASN	N-CA-C	6.80	119.51	110.53
1	U	400	ASN	N-CA-C	6.80	119.51	110.53
1	V	400	ASN	N-CA-C	6.80	119.50	110.53
1	Z	400	ASN	N-CA-C	6.80	119.51	110.53
1	a	400	ASN	N-CA-C	6.80	119.50	110.53
1	c	400	ASN	N-CA-C	6.80	119.51	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	400	ASN	N-CA-C	6.80	119.50	110.53
1	f	400	ASN	N-CA-C	6.80	119.50	110.53
1	h	400	ASN	N-CA-C	6.80	119.51	110.53
1	p	400	ASN	N-CA-C	6.80	119.51	110.53
1	q	400	ASN	N-CA-C	6.80	119.50	110.53
1	u	400	ASN	N-CA-C	6.80	119.50	110.53
1	w	400	ASN	N-CA-C	6.80	119.51	110.53
1	y	400	ASN	N-CA-C	6.80	119.51	110.53
1	z	400	ASN	N-CA-C	6.80	119.50	110.53
1	4	400	ASN	N-CA-C	6.80	119.51	110.53
1	5	400	ASN	N-CA-C	6.80	119.50	110.53
1	7	400	ASN	N-CA-C	6.80	119.51	110.53
1	8	400	ASN	N-CA-C	6.80	119.50	110.53
1	A	400	ASN	N-CA-C	6.80	119.50	110.53
1	C	400	ASN	N-CA-C	6.80	119.50	110.53
1	K	400	ASN	N-CA-C	6.80	119.50	110.53
1	R	400	ASN	N-CA-C	6.80	119.50	110.53
1	T	400	ASN	N-CA-C	6.80	119.50	110.53
1	b	400	ASN	N-CA-C	6.80	119.50	110.53
1	e	400	ASN	N-CA-C	6.80	119.50	110.53
1	g	400	ASN	N-CA-C	6.80	119.50	110.53
1	o	400	ASN	N-CA-C	6.80	119.50	110.53
1	v	400	ASN	N-CA-C	6.80	119.50	110.53
1	x	400	ASN	N-CA-C	6.80	119.50	110.53
1	6	400	ASN	N-CA-C	6.80	119.50	110.53
1	E	400	ASN	N-CA-C	6.77	119.47	110.53
1	F	400	ASN	N-CA-C	6.77	119.47	110.53
1	G	400	ASN	N-CA-C	6.77	119.47	110.53
1	N	400	ASN	N-CA-C	6.77	119.47	110.53
1	O	400	ASN	N-CA-C	6.77	119.47	110.53
1	P	400	ASN	N-CA-C	6.77	119.47	110.53
1	i	400	ASN	N-CA-C	6.77	119.47	110.53
1	j	400	ASN	N-CA-C	6.77	119.47	110.53
1	k	400	ASN	N-CA-C	6.77	119.47	110.53
1	r	400	ASN	N-CA-C	6.77	119.47	110.53
1	s	400	ASN	N-CA-C	6.77	119.47	110.53
1	t	400	ASN	N-CA-C	6.77	119.47	110.53
1	D	505	PRO	CA-C-O	-6.73	110.80	120.56
1	L	505	PRO	CA-C-O	-6.73	110.80	120.56
1	S	505	PRO	CA-C-O	-6.73	110.80	120.56
1	U	505	PRO	CA-C-O	-6.73	110.80	120.56
1	Z	505	PRO	CA-C-O	-6.73	110.80	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	505	PRO	CA-C-O	-6.73	110.80	120.56
1	h	505	PRO	CA-C-O	-6.73	110.80	120.56
1	p	505	PRO	CA-C-O	-6.73	110.80	120.56
1	w	505	PRO	CA-C-O	-6.73	110.80	120.56
1	y	505	PRO	CA-C-O	-6.73	110.80	120.56
1	4	505	PRO	CA-C-O	-6.73	110.80	120.56
1	7	505	PRO	CA-C-O	-6.73	110.80	120.56
1	A	505	PRO	CA-C-O	-6.72	110.81	120.56
1	C	505	PRO	CA-C-O	-6.72	110.81	120.56
1	K	505	PRO	CA-C-O	-6.72	110.81	120.56
1	R	505	PRO	CA-C-O	-6.72	110.81	120.56
1	T	505	PRO	CA-C-O	-6.72	110.81	120.56
1	b	505	PRO	CA-C-O	-6.72	110.81	120.56
1	e	505	PRO	CA-C-O	-6.72	110.81	120.56
1	g	505	PRO	CA-C-O	-6.72	110.81	120.56
1	o	505	PRO	CA-C-O	-6.72	110.81	120.56
1	v	505	PRO	CA-C-O	-6.72	110.81	120.56
1	x	505	PRO	CA-C-O	-6.72	110.81	120.56
1	6	505	PRO	CA-C-O	-6.72	110.81	120.56
1	B	505	PRO	CA-C-O	-6.72	110.82	120.56
1	M	505	PRO	CA-C-O	-6.72	110.82	120.56
1	Q	505	PRO	CA-C-O	-6.72	110.82	120.56
1	V	505	PRO	CA-C-O	-6.72	110.82	120.56
1	a	505	PRO	CA-C-O	-6.72	110.82	120.56
1	d	505	PRO	CA-C-O	-6.72	110.82	120.56
1	f	505	PRO	CA-C-O	-6.72	110.82	120.56
1	q	505	PRO	CA-C-O	-6.72	110.82	120.56
1	u	505	PRO	CA-C-O	-6.72	110.82	120.56
1	z	505	PRO	CA-C-O	-6.72	110.82	120.56
1	5	505	PRO	CA-C-O	-6.72	110.82	120.56
1	8	505	PRO	CA-C-O	-6.72	110.82	120.56
1	H	505	PRO	CA-C-O	-6.70	110.84	120.56
1	I	505	PRO	CA-C-O	-6.70	110.84	120.56
1	J	505	PRO	CA-C-O	-6.70	110.84	120.56
1	W	505	PRO	CA-C-O	-6.70	110.84	120.56
1	X	505	PRO	CA-C-O	-6.70	110.84	120.56
1	Y	505	PRO	CA-C-O	-6.70	110.84	120.56
1	l	505	PRO	CA-C-O	-6.70	110.84	120.56
1	m	505	PRO	CA-C-O	-6.70	110.84	120.56
1	n	505	PRO	CA-C-O	-6.70	110.84	120.56
1	1	505	PRO	CA-C-O	-6.70	110.84	120.56
1	2	505	PRO	CA-C-O	-6.70	110.84	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	505	PRO	CA-C-O	-6.70	110.84	120.56
1	E	505	PRO	CA-C-O	-6.70	110.84	120.56
1	F	505	PRO	CA-C-O	-6.70	110.84	120.56
1	G	505	PRO	CA-C-O	-6.70	110.84	120.56
1	N	505	PRO	CA-C-O	-6.70	110.84	120.56
1	O	505	PRO	CA-C-O	-6.70	110.84	120.56
1	P	505	PRO	CA-C-O	-6.70	110.84	120.56
1	i	505	PRO	CA-C-O	-6.70	110.84	120.56
1	j	505	PRO	CA-C-O	-6.70	110.84	120.56
1	k	505	PRO	CA-C-O	-6.70	110.84	120.56
1	r	505	PRO	CA-C-O	-6.70	110.84	120.56
1	s	505	PRO	CA-C-O	-6.70	110.84	120.56
1	t	505	PRO	CA-C-O	-6.70	110.84	120.56
1	B	340	GLN	CB-CA-C	6.68	122.20	110.85
1	M	340	GLN	CB-CA-C	6.68	122.20	110.85
1	Q	340	GLN	CB-CA-C	6.68	122.20	110.85
1	V	340	GLN	CB-CA-C	6.68	122.20	110.85
1	a	340	GLN	CB-CA-C	6.68	122.20	110.85
1	d	340	GLN	CB-CA-C	6.68	122.20	110.85
1	f	340	GLN	CB-CA-C	6.68	122.20	110.85
1	q	340	GLN	CB-CA-C	6.68	122.20	110.85
1	u	340	GLN	CB-CA-C	6.68	122.20	110.85
1	z	340	GLN	CB-CA-C	6.68	122.20	110.85
1	5	340	GLN	CB-CA-C	6.68	122.20	110.85
1	8	340	GLN	CB-CA-C	6.68	122.20	110.85
1	E	340	GLN	CB-CA-C	6.68	122.20	110.85
1	F	340	GLN	CB-CA-C	6.68	122.20	110.85
1	G	340	GLN	CB-CA-C	6.68	122.20	110.85
1	N	340	GLN	CB-CA-C	6.68	122.20	110.85
1	O	340	GLN	CB-CA-C	6.68	122.20	110.85
1	P	340	GLN	CB-CA-C	6.68	122.20	110.85
1	i	340	GLN	CB-CA-C	6.68	122.20	110.85
1	j	340	GLN	CB-CA-C	6.68	122.20	110.85
1	k	340	GLN	CB-CA-C	6.68	122.20	110.85
1	r	340	GLN	CB-CA-C	6.68	122.20	110.85
1	s	340	GLN	CB-CA-C	6.68	122.20	110.85
1	t	340	GLN	CB-CA-C	6.68	122.20	110.85
1	S	340	GLN	CB-CA-C	6.67	122.19	110.85
1	U	340	GLN	CB-CA-C	6.67	122.19	110.85
1	Z	340	GLN	CB-CA-C	6.67	122.19	110.85
1	h	340	GLN	CB-CA-C	6.67	122.19	110.85
1	p	340	GLN	CB-CA-C	6.67	122.19	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4	340	GLN	CB-CA-C	6.67	122.19	110.85
1	E	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	F	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	G	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	N	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	O	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	P	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	i	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	j	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	k	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	r	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	s	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	t	290	LEU	N-CA-CB	-6.66	100.30	110.16
1	A	340	GLN	CB-CA-C	6.66	122.17	110.85
1	C	340	GLN	CB-CA-C	6.66	122.17	110.85
1	H	340	GLN	CB-CA-C	6.66	122.17	110.85
1	I	340	GLN	CB-CA-C	6.66	122.17	110.85
1	J	340	GLN	CB-CA-C	6.66	122.17	110.85
1	K	340	GLN	CB-CA-C	6.66	122.17	110.85
1	R	340	GLN	CB-CA-C	6.66	122.17	110.85
1	T	340	GLN	CB-CA-C	6.66	122.17	110.85
1	W	340	GLN	CB-CA-C	6.66	122.17	110.85
1	X	340	GLN	CB-CA-C	6.66	122.17	110.85
1	Y	340	GLN	CB-CA-C	6.66	122.17	110.85
1	b	340	GLN	CB-CA-C	6.66	122.17	110.85
1	e	340	GLN	CB-CA-C	6.66	122.17	110.85
1	g	340	GLN	CB-CA-C	6.66	122.17	110.85
1	l	340	GLN	CB-CA-C	6.66	122.17	110.85
1	m	340	GLN	CB-CA-C	6.66	122.17	110.85
1	n	340	GLN	CB-CA-C	6.66	122.17	110.85
1	o	340	GLN	CB-CA-C	6.66	122.17	110.85
1	v	340	GLN	CB-CA-C	6.66	122.17	110.85
1	x	340	GLN	CB-CA-C	6.66	122.17	110.85
1	1	340	GLN	CB-CA-C	6.66	122.17	110.85
1	2	340	GLN	CB-CA-C	6.66	122.17	110.85
1	3	340	GLN	CB-CA-C	6.66	122.17	110.85
1	6	340	GLN	CB-CA-C	6.66	122.17	110.85
1	D	340	GLN	CB-CA-C	6.66	122.17	110.85
1	L	340	GLN	CB-CA-C	6.66	122.17	110.85
1	c	340	GLN	CB-CA-C	6.66	122.17	110.85
1	w	340	GLN	CB-CA-C	6.66	122.17	110.85
1	y	340	GLN	CB-CA-C	6.66	122.17	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	340	GLN	CB-CA-C	6.66	122.17	110.85
1	A	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	C	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	K	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	R	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	T	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	b	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	e	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	g	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	o	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	v	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	x	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	6	290	LEU	N-CA-CB	-6.65	100.31	110.16
1	E	506	PRO	N-CA-CB	6.65	108.88	103.36
1	F	506	PRO	N-CA-CB	6.65	108.88	103.36
1	G	506	PRO	N-CA-CB	6.65	108.88	103.36
1	N	506	PRO	N-CA-CB	6.65	108.88	103.36
1	O	506	PRO	N-CA-CB	6.65	108.88	103.36
1	P	506	PRO	N-CA-CB	6.65	108.88	103.36
1	i	506	PRO	N-CA-CB	6.65	108.88	103.36
1	j	506	PRO	N-CA-CB	6.65	108.88	103.36
1	k	506	PRO	N-CA-CB	6.65	108.88	103.36
1	r	506	PRO	N-CA-CB	6.65	108.88	103.36
1	s	506	PRO	N-CA-CB	6.65	108.88	103.36
1	t	506	PRO	N-CA-CB	6.65	108.88	103.36
1	D	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	L	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	S	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	U	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	Z	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	c	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	h	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	p	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	w	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	y	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	4	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	7	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	B	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	M	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	Q	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	V	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	a	290	LEU	N-CA-CB	-6.65	100.32	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	f	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	q	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	u	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	z	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	5	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	8	290	LEU	N-CA-CB	-6.65	100.32	110.16
1	H	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	I	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	J	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	W	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	X	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	Y	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	l	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	m	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	n	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	1	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	2	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	3	290	LEU	N-CA-CB	-6.64	100.34	110.16
1	J	506	PRO	N-CA-CB	6.61	108.85	103.36
1	W	506	PRO	N-CA-CB	6.61	108.85	103.36
1	l	506	PRO	N-CA-CB	6.61	108.85	103.36
1	1	506	PRO	N-CA-CB	6.61	108.85	103.36
1	2	506	PRO	N-CA-CB	6.61	108.85	103.36
1	3	506	PRO	N-CA-CB	6.61	108.85	103.36
1	A	506	PRO	N-CA-CB	6.61	108.85	103.36
1	C	506	PRO	N-CA-CB	6.61	108.85	103.36
1	K	506	PRO	N-CA-CB	6.61	108.85	103.36
1	R	506	PRO	N-CA-CB	6.61	108.85	103.36
1	T	506	PRO	N-CA-CB	6.61	108.85	103.36
1	b	506	PRO	N-CA-CB	6.61	108.85	103.36
1	e	506	PRO	N-CA-CB	6.61	108.85	103.36
1	g	506	PRO	N-CA-CB	6.61	108.85	103.36
1	o	506	PRO	N-CA-CB	6.61	108.85	103.36
1	v	506	PRO	N-CA-CB	6.61	108.85	103.36
1	x	506	PRO	N-CA-CB	6.61	108.85	103.36
1	6	506	PRO	N-CA-CB	6.61	108.85	103.36
1	B	506	PRO	N-CA-CB	6.61	108.85	103.36
1	D	506	PRO	N-CA-CB	6.61	108.85	103.36
1	L	506	PRO	N-CA-CB	6.61	108.85	103.36
1	M	506	PRO	N-CA-CB	6.61	108.85	103.36
1	Q	506	PRO	N-CA-CB	6.61	108.85	103.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	506	PRO	N-CA-CB	6.61	108.85	103.36
1	U	506	PRO	N-CA-CB	6.61	108.85	103.36
1	V	506	PRO	N-CA-CB	6.61	108.85	103.36
1	Z	506	PRO	N-CA-CB	6.61	108.85	103.36
1	a	506	PRO	N-CA-CB	6.61	108.85	103.36
1	c	506	PRO	N-CA-CB	6.61	108.85	103.36
1	d	506	PRO	N-CA-CB	6.61	108.85	103.36
1	f	506	PRO	N-CA-CB	6.61	108.85	103.36
1	h	506	PRO	N-CA-CB	6.61	108.85	103.36
1	p	506	PRO	N-CA-CB	6.61	108.85	103.36
1	q	506	PRO	N-CA-CB	6.61	108.85	103.36
1	u	506	PRO	N-CA-CB	6.61	108.85	103.36
1	w	506	PRO	N-CA-CB	6.61	108.85	103.36
1	y	506	PRO	N-CA-CB	6.61	108.85	103.36
1	z	506	PRO	N-CA-CB	6.61	108.85	103.36
1	4	506	PRO	N-CA-CB	6.61	108.85	103.36
1	5	506	PRO	N-CA-CB	6.61	108.85	103.36
1	7	506	PRO	N-CA-CB	6.61	108.85	103.36
1	8	506	PRO	N-CA-CB	6.61	108.85	103.36
1	B	686	GLU	N-CA-C	6.61	119.47	110.55
1	M	686	GLU	N-CA-C	6.61	119.47	110.55
1	Q	686	GLU	N-CA-C	6.61	119.47	110.55
1	V	686	GLU	N-CA-C	6.61	119.47	110.55
1	a	686	GLU	N-CA-C	6.61	119.47	110.55
1	d	686	GLU	N-CA-C	6.61	119.47	110.55
1	f	686	GLU	N-CA-C	6.61	119.47	110.55
1	q	686	GLU	N-CA-C	6.61	119.47	110.55
1	u	686	GLU	N-CA-C	6.61	119.47	110.55
1	z	686	GLU	N-CA-C	6.61	119.47	110.55
1	5	686	GLU	N-CA-C	6.61	119.47	110.55
1	8	686	GLU	N-CA-C	6.61	119.47	110.55
1	H	686	GLU	N-CA-C	6.60	119.46	110.55
1	I	686	GLU	N-CA-C	6.60	119.46	110.55
1	J	686	GLU	N-CA-C	6.60	119.46	110.55
1	W	686	GLU	N-CA-C	6.60	119.46	110.55
1	X	686	GLU	N-CA-C	6.60	119.46	110.55
1	Y	686	GLU	N-CA-C	6.60	119.46	110.55
1	l	686	GLU	N-CA-C	6.60	119.46	110.55
1	m	686	GLU	N-CA-C	6.60	119.46	110.55
1	n	686	GLU	N-CA-C	6.60	119.46	110.55
1	1	686	GLU	N-CA-C	6.60	119.46	110.55
1	2	686	GLU	N-CA-C	6.60	119.46	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	686	GLU	N-CA-C	6.60	119.46	110.55
1	D	686	GLU	N-CA-C	6.59	119.44	110.55
1	L	686	GLU	N-CA-C	6.59	119.44	110.55
1	S	686	GLU	N-CA-C	6.59	119.44	110.55
1	U	686	GLU	N-CA-C	6.59	119.44	110.55
1	Z	686	GLU	N-CA-C	6.59	119.44	110.55
1	c	686	GLU	N-CA-C	6.59	119.44	110.55
1	h	686	GLU	N-CA-C	6.59	119.44	110.55
1	p	686	GLU	N-CA-C	6.59	119.44	110.55
1	w	686	GLU	N-CA-C	6.59	119.44	110.55
1	y	686	GLU	N-CA-C	6.59	119.44	110.55
1	4	686	GLU	N-CA-C	6.59	119.44	110.55
1	7	686	GLU	N-CA-C	6.59	119.44	110.55
1	H	506	PRO	N-CA-CB	6.58	108.82	103.36
1	I	506	PRO	N-CA-CB	6.58	108.82	103.36
1	X	506	PRO	N-CA-CB	6.58	108.82	103.36
1	Y	506	PRO	N-CA-CB	6.58	108.82	103.36
1	m	506	PRO	N-CA-CB	6.58	108.82	103.36
1	n	506	PRO	N-CA-CB	6.58	108.82	103.36
1	A	686	GLU	N-CA-C	6.58	119.43	110.55
1	C	686	GLU	N-CA-C	6.58	119.43	110.55
1	K	686	GLU	N-CA-C	6.58	119.43	110.55
1	R	686	GLU	N-CA-C	6.58	119.43	110.55
1	T	686	GLU	N-CA-C	6.58	119.43	110.55
1	b	686	GLU	N-CA-C	6.58	119.43	110.55
1	e	686	GLU	N-CA-C	6.58	119.43	110.55
1	g	686	GLU	N-CA-C	6.58	119.43	110.55
1	o	686	GLU	N-CA-C	6.58	119.43	110.55
1	v	686	GLU	N-CA-C	6.58	119.43	110.55
1	x	686	GLU	N-CA-C	6.58	119.43	110.55
1	6	686	GLU	N-CA-C	6.58	119.43	110.55
1	E	686	GLU	N-CA-C	6.57	119.42	110.55
1	F	686	GLU	N-CA-C	6.57	119.42	110.55
1	G	686	GLU	N-CA-C	6.57	119.42	110.55
1	N	686	GLU	N-CA-C	6.57	119.42	110.55
1	O	686	GLU	N-CA-C	6.57	119.42	110.55
1	P	686	GLU	N-CA-C	6.57	119.42	110.55
1	i	686	GLU	N-CA-C	6.57	119.42	110.55
1	j	686	GLU	N-CA-C	6.57	119.42	110.55
1	k	686	GLU	N-CA-C	6.57	119.42	110.55
1	r	686	GLU	N-CA-C	6.57	119.42	110.55
1	s	686	GLU	N-CA-C	6.57	119.42	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	686	GLU	N-CA-C	6.57	119.42	110.55
1	A	488	ALA	N-CA-C	6.57	118.52	111.36
1	C	488	ALA	N-CA-C	6.57	118.52	111.36
1	K	488	ALA	N-CA-C	6.57	118.52	111.36
1	R	488	ALA	N-CA-C	6.57	118.52	111.36
1	T	488	ALA	N-CA-C	6.57	118.52	111.36
1	b	488	ALA	N-CA-C	6.57	118.52	111.36
1	e	488	ALA	N-CA-C	6.57	118.52	111.36
1	g	488	ALA	N-CA-C	6.57	118.52	111.36
1	o	488	ALA	N-CA-C	6.57	118.52	111.36
1	v	488	ALA	N-CA-C	6.57	118.52	111.36
1	x	488	ALA	N-CA-C	6.57	118.52	111.36
1	6	488	ALA	N-CA-C	6.57	118.52	111.36
1	H	488	ALA	N-CA-C	6.56	118.51	111.36
1	I	488	ALA	N-CA-C	6.56	118.51	111.36
1	J	488	ALA	N-CA-C	6.56	118.51	111.36
1	W	488	ALA	N-CA-C	6.56	118.51	111.36
1	X	488	ALA	N-CA-C	6.56	118.51	111.36
1	Y	488	ALA	N-CA-C	6.56	118.51	111.36
1	l	488	ALA	N-CA-C	6.56	118.51	111.36
1	m	488	ALA	N-CA-C	6.56	118.51	111.36
1	n	488	ALA	N-CA-C	6.56	118.51	111.36
1	1	488	ALA	N-CA-C	6.56	118.51	111.36
1	2	488	ALA	N-CA-C	6.56	118.51	111.36
1	3	488	ALA	N-CA-C	6.56	118.51	111.36
1	D	488	ALA	N-CA-C	6.54	118.49	111.36
1	L	488	ALA	N-CA-C	6.54	118.49	111.36
1	S	488	ALA	N-CA-C	6.54	118.49	111.36
1	U	488	ALA	N-CA-C	6.54	118.49	111.36
1	Z	488	ALA	N-CA-C	6.54	118.49	111.36
1	c	488	ALA	N-CA-C	6.54	118.49	111.36
1	h	488	ALA	N-CA-C	6.54	118.49	111.36
1	p	488	ALA	N-CA-C	6.54	118.49	111.36
1	w	488	ALA	N-CA-C	6.54	118.49	111.36
1	y	488	ALA	N-CA-C	6.54	118.49	111.36
1	4	488	ALA	N-CA-C	6.54	118.49	111.36
1	7	488	ALA	N-CA-C	6.54	118.49	111.36
1	E	488	ALA	N-CA-C	6.53	118.48	111.36
1	F	488	ALA	N-CA-C	6.53	118.48	111.36
1	G	488	ALA	N-CA-C	6.53	118.48	111.36
1	N	488	ALA	N-CA-C	6.53	118.48	111.36
1	O	488	ALA	N-CA-C	6.53	118.48	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	488	ALA	N-CA-C	6.53	118.48	111.36
1	i	488	ALA	N-CA-C	6.53	118.48	111.36
1	j	488	ALA	N-CA-C	6.53	118.48	111.36
1	k	488	ALA	N-CA-C	6.53	118.48	111.36
1	r	488	ALA	N-CA-C	6.53	118.48	111.36
1	s	488	ALA	N-CA-C	6.53	118.48	111.36
1	t	488	ALA	N-CA-C	6.53	118.48	111.36
1	H	505	PRO	N-CA-C	6.52	118.66	110.70
1	I	505	PRO	N-CA-C	6.52	118.66	110.70
1	J	505	PRO	N-CA-C	6.52	118.66	110.70
1	W	505	PRO	N-CA-C	6.52	118.66	110.70
1	X	505	PRO	N-CA-C	6.52	118.66	110.70
1	Y	505	PRO	N-CA-C	6.52	118.66	110.70
1	l	505	PRO	N-CA-C	6.52	118.66	110.70
1	m	505	PRO	N-CA-C	6.52	118.66	110.70
1	n	505	PRO	N-CA-C	6.52	118.66	110.70
1	1	505	PRO	N-CA-C	6.52	118.66	110.70
1	2	505	PRO	N-CA-C	6.52	118.66	110.70
1	3	505	PRO	N-CA-C	6.52	118.66	110.70
1	A	505	PRO	N-CA-C	6.52	118.66	110.70
1	C	505	PRO	N-CA-C	6.52	118.66	110.70
1	K	505	PRO	N-CA-C	6.52	118.66	110.70
1	R	505	PRO	N-CA-C	6.52	118.66	110.70
1	T	505	PRO	N-CA-C	6.52	118.66	110.70
1	b	505	PRO	N-CA-C	6.52	118.66	110.70
1	e	505	PRO	N-CA-C	6.52	118.66	110.70
1	g	505	PRO	N-CA-C	6.52	118.66	110.70
1	o	505	PRO	N-CA-C	6.52	118.66	110.70
1	v	505	PRO	N-CA-C	6.52	118.66	110.70
1	x	505	PRO	N-CA-C	6.52	118.66	110.70
1	6	505	PRO	N-CA-C	6.52	118.66	110.70
1	B	488	ALA	N-CA-C	6.52	118.47	111.36
1	M	488	ALA	N-CA-C	6.52	118.47	111.36
1	Q	488	ALA	N-CA-C	6.52	118.47	111.36
1	V	488	ALA	N-CA-C	6.52	118.47	111.36
1	a	488	ALA	N-CA-C	6.52	118.47	111.36
1	d	488	ALA	N-CA-C	6.52	118.47	111.36
1	f	488	ALA	N-CA-C	6.52	118.47	111.36
1	q	488	ALA	N-CA-C	6.52	118.47	111.36
1	u	488	ALA	N-CA-C	6.52	118.47	111.36
1	z	488	ALA	N-CA-C	6.52	118.47	111.36
1	5	488	ALA	N-CA-C	6.52	118.47	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	488	ALA	N-CA-C	6.52	118.47	111.36
1	B	505	PRO	N-CA-C	6.52	118.65	110.70
1	M	505	PRO	N-CA-C	6.52	118.65	110.70
1	Q	505	PRO	N-CA-C	6.52	118.65	110.70
1	V	505	PRO	N-CA-C	6.52	118.65	110.70
1	a	505	PRO	N-CA-C	6.52	118.65	110.70
1	d	505	PRO	N-CA-C	6.52	118.65	110.70
1	f	505	PRO	N-CA-C	6.52	118.65	110.70
1	q	505	PRO	N-CA-C	6.52	118.65	110.70
1	u	505	PRO	N-CA-C	6.52	118.65	110.70
1	z	505	PRO	N-CA-C	6.52	118.65	110.70
1	5	505	PRO	N-CA-C	6.52	118.65	110.70
1	8	505	PRO	N-CA-C	6.52	118.65	110.70
1	E	505	PRO	N-CA-C	6.50	118.64	110.70
1	F	505	PRO	N-CA-C	6.50	118.64	110.70
1	G	505	PRO	N-CA-C	6.50	118.64	110.70
1	N	505	PRO	N-CA-C	6.50	118.64	110.70
1	O	505	PRO	N-CA-C	6.50	118.64	110.70
1	P	505	PRO	N-CA-C	6.50	118.64	110.70
1	i	505	PRO	N-CA-C	6.50	118.64	110.70
1	j	505	PRO	N-CA-C	6.50	118.64	110.70
1	k	505	PRO	N-CA-C	6.50	118.64	110.70
1	r	505	PRO	N-CA-C	6.50	118.64	110.70
1	s	505	PRO	N-CA-C	6.50	118.64	110.70
1	t	505	PRO	N-CA-C	6.50	118.64	110.70
1	D	505	PRO	N-CA-C	6.49	118.62	110.70
1	L	505	PRO	N-CA-C	6.49	118.62	110.70
1	S	505	PRO	N-CA-C	6.49	118.62	110.70
1	U	505	PRO	N-CA-C	6.49	118.62	110.70
1	Z	505	PRO	N-CA-C	6.49	118.62	110.70
1	c	505	PRO	N-CA-C	6.49	118.62	110.70
1	h	505	PRO	N-CA-C	6.49	118.62	110.70
1	p	505	PRO	N-CA-C	6.49	118.62	110.70
1	w	505	PRO	N-CA-C	6.49	118.62	110.70
1	y	505	PRO	N-CA-C	6.49	118.62	110.70
1	4	505	PRO	N-CA-C	6.49	118.62	110.70
1	7	505	PRO	N-CA-C	6.49	118.62	110.70
1	B	398	THR	CA-C-N	6.46	127.15	119.98
1	B	398	THR	C-N-CA	6.46	127.15	119.98
1	M	398	THR	CA-C-N	6.46	127.15	119.98
1	M	398	THR	C-N-CA	6.46	127.15	119.98
1	Q	398	THR	CA-C-N	6.46	127.15	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	398	THR	C-N-CA	6.46	127.15	119.98
1	V	398	THR	CA-C-N	6.46	127.15	119.98
1	V	398	THR	C-N-CA	6.46	127.15	119.98
1	a	398	THR	CA-C-N	6.46	127.15	119.98
1	a	398	THR	C-N-CA	6.46	127.15	119.98
1	d	398	THR	CA-C-N	6.46	127.15	119.98
1	d	398	THR	C-N-CA	6.46	127.15	119.98
1	f	398	THR	CA-C-N	6.46	127.15	119.98
1	f	398	THR	C-N-CA	6.46	127.15	119.98
1	q	398	THR	CA-C-N	6.46	127.15	119.98
1	q	398	THR	C-N-CA	6.46	127.15	119.98
1	u	398	THR	CA-C-N	6.46	127.15	119.98
1	u	398	THR	C-N-CA	6.46	127.15	119.98
1	z	398	THR	CA-C-N	6.46	127.15	119.98
1	z	398	THR	C-N-CA	6.46	127.15	119.98
1	5	398	THR	CA-C-N	6.46	127.15	119.98
1	5	398	THR	C-N-CA	6.46	127.15	119.98
1	8	398	THR	CA-C-N	6.46	127.15	119.98
1	8	398	THR	C-N-CA	6.46	127.15	119.98
1	H	398	THR	CA-C-N	6.45	127.14	119.98
1	H	398	THR	C-N-CA	6.45	127.14	119.98
1	I	398	THR	CA-C-N	6.45	127.14	119.98
1	I	398	THR	C-N-CA	6.45	127.14	119.98
1	J	398	THR	CA-C-N	6.45	127.14	119.98
1	J	398	THR	C-N-CA	6.45	127.14	119.98
1	W	398	THR	CA-C-N	6.45	127.14	119.98
1	W	398	THR	C-N-CA	6.45	127.14	119.98
1	X	398	THR	CA-C-N	6.45	127.14	119.98
1	X	398	THR	C-N-CA	6.45	127.14	119.98
1	Y	398	THR	CA-C-N	6.45	127.14	119.98
1	Y	398	THR	C-N-CA	6.45	127.14	119.98
1	l	398	THR	CA-C-N	6.45	127.14	119.98
1	l	398	THR	C-N-CA	6.45	127.14	119.98
1	m	398	THR	CA-C-N	6.45	127.14	119.98
1	m	398	THR	C-N-CA	6.45	127.14	119.98
1	n	398	THR	CA-C-N	6.45	127.14	119.98
1	n	398	THR	C-N-CA	6.45	127.14	119.98
1	1	398	THR	CA-C-N	6.45	127.14	119.98
1	1	398	THR	C-N-CA	6.45	127.14	119.98
1	2	398	THR	CA-C-N	6.45	127.14	119.98
1	2	398	THR	C-N-CA	6.45	127.14	119.98
1	3	398	THR	CA-C-N	6.45	127.14	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	398	THR	C-N-CA	6.45	127.14	119.98
1	D	398	THR	CA-C-N	6.43	127.12	119.98
1	D	398	THR	C-N-CA	6.43	127.12	119.98
1	L	398	THR	CA-C-N	6.43	127.12	119.98
1	L	398	THR	C-N-CA	6.43	127.12	119.98
1	S	398	THR	CA-C-N	6.43	127.12	119.98
1	S	398	THR	C-N-CA	6.43	127.12	119.98
1	U	398	THR	CA-C-N	6.43	127.12	119.98
1	U	398	THR	C-N-CA	6.43	127.12	119.98
1	Z	398	THR	CA-C-N	6.43	127.12	119.98
1	Z	398	THR	C-N-CA	6.43	127.12	119.98
1	c	398	THR	CA-C-N	6.43	127.12	119.98
1	c	398	THR	C-N-CA	6.43	127.12	119.98
1	h	398	THR	CA-C-N	6.43	127.12	119.98
1	h	398	THR	C-N-CA	6.43	127.12	119.98
1	p	398	THR	CA-C-N	6.43	127.12	119.98
1	p	398	THR	C-N-CA	6.43	127.12	119.98
1	w	398	THR	CA-C-N	6.43	127.12	119.98
1	w	398	THR	C-N-CA	6.43	127.12	119.98
1	y	398	THR	CA-C-N	6.43	127.12	119.98
1	y	398	THR	C-N-CA	6.43	127.12	119.98
1	4	398	THR	CA-C-N	6.43	127.12	119.98
1	4	398	THR	C-N-CA	6.43	127.12	119.98
1	7	398	THR	CA-C-N	6.43	127.12	119.98
1	7	398	THR	C-N-CA	6.43	127.12	119.98
1	A	398	THR	CA-C-N	6.43	127.11	119.98
1	A	398	THR	C-N-CA	6.43	127.11	119.98
1	C	398	THR	CA-C-N	6.43	127.11	119.98
1	C	398	THR	C-N-CA	6.43	127.11	119.98
1	K	398	THR	CA-C-N	6.43	127.11	119.98
1	K	398	THR	C-N-CA	6.43	127.11	119.98
1	R	398	THR	CA-C-N	6.43	127.11	119.98
1	R	398	THR	C-N-CA	6.43	127.11	119.98
1	T	398	THR	CA-C-N	6.43	127.11	119.98
1	T	398	THR	C-N-CA	6.43	127.11	119.98
1	b	398	THR	CA-C-N	6.43	127.11	119.98
1	b	398	THR	C-N-CA	6.43	127.11	119.98
1	e	398	THR	CA-C-N	6.43	127.11	119.98
1	e	398	THR	C-N-CA	6.43	127.11	119.98
1	g	398	THR	CA-C-N	6.43	127.11	119.98
1	g	398	THR	C-N-CA	6.43	127.11	119.98
1	o	398	THR	CA-C-N	6.43	127.11	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	398	THR	C-N-CA	6.43	127.11	119.98
1	v	398	THR	CA-C-N	6.43	127.11	119.98
1	v	398	THR	C-N-CA	6.43	127.11	119.98
1	x	398	THR	CA-C-N	6.43	127.11	119.98
1	x	398	THR	C-N-CA	6.43	127.11	119.98
1	6	398	THR	CA-C-N	6.43	127.11	119.98
1	6	398	THR	C-N-CA	6.43	127.11	119.98
1	E	398	THR	CA-C-N	6.42	127.11	119.98
1	E	398	THR	C-N-CA	6.42	127.11	119.98
1	F	398	THR	CA-C-N	6.42	127.11	119.98
1	F	398	THR	C-N-CA	6.42	127.11	119.98
1	G	398	THR	CA-C-N	6.42	127.11	119.98
1	G	398	THR	C-N-CA	6.42	127.11	119.98
1	N	398	THR	CA-C-N	6.42	127.11	119.98
1	N	398	THR	C-N-CA	6.42	127.11	119.98
1	O	398	THR	CA-C-N	6.42	127.11	119.98
1	O	398	THR	C-N-CA	6.42	127.11	119.98
1	P	398	THR	CA-C-N	6.42	127.11	119.98
1	P	398	THR	C-N-CA	6.42	127.11	119.98
1	i	398	THR	CA-C-N	6.42	127.11	119.98
1	i	398	THR	C-N-CA	6.42	127.11	119.98
1	j	398	THR	CA-C-N	6.42	127.11	119.98
1	j	398	THR	C-N-CA	6.42	127.11	119.98
1	k	398	THR	CA-C-N	6.42	127.11	119.98
1	k	398	THR	C-N-CA	6.42	127.11	119.98
1	r	398	THR	CA-C-N	6.42	127.11	119.98
1	r	398	THR	C-N-CA	6.42	127.11	119.98
1	s	398	THR	CA-C-N	6.42	127.11	119.98
1	s	398	THR	C-N-CA	6.42	127.11	119.98
1	t	398	THR	CA-C-N	6.42	127.11	119.98
1	t	398	THR	C-N-CA	6.42	127.11	119.98
1	H	429	PRO	CA-C-N	6.39	129.36	120.29
1	H	429	PRO	C-N-CA	6.39	129.36	120.29
1	I	429	PRO	CA-C-N	6.39	129.36	120.29
1	I	429	PRO	C-N-CA	6.39	129.36	120.29
1	J	429	PRO	CA-C-N	6.39	129.36	120.29
1	J	429	PRO	C-N-CA	6.39	129.36	120.29
1	W	429	PRO	CA-C-N	6.39	129.36	120.29
1	W	429	PRO	C-N-CA	6.39	129.36	120.29
1	X	429	PRO	CA-C-N	6.39	129.36	120.29
1	X	429	PRO	C-N-CA	6.39	129.36	120.29
1	Y	429	PRO	CA-C-N	6.39	129.36	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	429	PRO	C-N-CA	6.39	129.36	120.29
1	l	429	PRO	CA-C-N	6.39	129.36	120.29
1	l	429	PRO	C-N-CA	6.39	129.36	120.29
1	m	429	PRO	CA-C-N	6.39	129.36	120.29
1	m	429	PRO	C-N-CA	6.39	129.36	120.29
1	n	429	PRO	CA-C-N	6.39	129.36	120.29
1	n	429	PRO	C-N-CA	6.39	129.36	120.29
1	1	429	PRO	CA-C-N	6.39	129.36	120.29
1	1	429	PRO	C-N-CA	6.39	129.36	120.29
1	2	429	PRO	CA-C-N	6.39	129.36	120.29
1	2	429	PRO	C-N-CA	6.39	129.36	120.29
1	3	429	PRO	CA-C-N	6.39	129.36	120.29
1	3	429	PRO	C-N-CA	6.39	129.36	120.29
1	A	429	PRO	CA-C-N	6.38	129.35	120.29
1	A	429	PRO	C-N-CA	6.38	129.35	120.29
1	C	429	PRO	CA-C-N	6.38	129.35	120.29
1	C	429	PRO	C-N-CA	6.38	129.35	120.29
1	K	429	PRO	CA-C-N	6.38	129.35	120.29
1	K	429	PRO	C-N-CA	6.38	129.35	120.29
1	R	429	PRO	CA-C-N	6.38	129.35	120.29
1	R	429	PRO	C-N-CA	6.38	129.35	120.29
1	T	429	PRO	CA-C-N	6.38	129.35	120.29
1	T	429	PRO	C-N-CA	6.38	129.35	120.29
1	b	429	PRO	CA-C-N	6.38	129.35	120.29
1	b	429	PRO	C-N-CA	6.38	129.35	120.29
1	e	429	PRO	CA-C-N	6.38	129.35	120.29
1	e	429	PRO	C-N-CA	6.38	129.35	120.29
1	g	429	PRO	CA-C-N	6.38	129.35	120.29
1	g	429	PRO	C-N-CA	6.38	129.35	120.29
1	o	429	PRO	CA-C-N	6.38	129.35	120.29
1	o	429	PRO	C-N-CA	6.38	129.35	120.29
1	v	429	PRO	CA-C-N	6.38	129.35	120.29
1	v	429	PRO	C-N-CA	6.38	129.35	120.29
1	x	429	PRO	CA-C-N	6.38	129.35	120.29
1	x	429	PRO	C-N-CA	6.38	129.35	120.29
1	6	429	PRO	CA-C-N	6.38	129.35	120.29
1	6	429	PRO	C-N-CA	6.38	129.35	120.29
1	D	429	PRO	CA-C-N	6.37	129.34	120.29
1	D	429	PRO	C-N-CA	6.37	129.34	120.29
1	L	429	PRO	CA-C-N	6.37	129.34	120.29
1	L	429	PRO	C-N-CA	6.37	129.34	120.29
1	S	429	PRO	CA-C-N	6.37	129.34	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	429	PRO	C-N-CA	6.37	129.34	120.29
1	U	429	PRO	CA-C-N	6.37	129.34	120.29
1	U	429	PRO	C-N-CA	6.37	129.34	120.29
1	Z	429	PRO	CA-C-N	6.37	129.34	120.29
1	Z	429	PRO	C-N-CA	6.37	129.34	120.29
1	c	429	PRO	CA-C-N	6.37	129.34	120.29
1	c	429	PRO	C-N-CA	6.37	129.34	120.29
1	h	429	PRO	CA-C-N	6.37	129.34	120.29
1	h	429	PRO	C-N-CA	6.37	129.34	120.29
1	p	429	PRO	CA-C-N	6.37	129.34	120.29
1	p	429	PRO	C-N-CA	6.37	129.34	120.29
1	w	429	PRO	CA-C-N	6.37	129.34	120.29
1	w	429	PRO	C-N-CA	6.37	129.34	120.29
1	y	429	PRO	CA-C-N	6.37	129.34	120.29
1	y	429	PRO	C-N-CA	6.37	129.34	120.29
1	4	429	PRO	CA-C-N	6.37	129.34	120.29
1	4	429	PRO	C-N-CA	6.37	129.34	120.29
1	7	429	PRO	CA-C-N	6.37	129.34	120.29
1	7	429	PRO	C-N-CA	6.37	129.34	120.29
1	N	429	PRO	CA-C-N	6.36	129.32	120.29
1	N	429	PRO	C-N-CA	6.36	129.32	120.29
1	O	429	PRO	CA-C-N	6.36	129.32	120.29
1	O	429	PRO	C-N-CA	6.36	129.32	120.29
1	i	429	PRO	CA-C-N	6.36	129.32	120.29
1	i	429	PRO	C-N-CA	6.36	129.32	120.29
1	j	429	PRO	CA-C-N	6.36	129.32	120.29
1	j	429	PRO	C-N-CA	6.36	129.32	120.29
1	s	429	PRO	CA-C-N	6.36	129.32	120.29
1	s	429	PRO	C-N-CA	6.36	129.32	120.29
1	t	429	PRO	CA-C-N	6.36	129.32	120.29
1	t	429	PRO	C-N-CA	6.36	129.32	120.29
1	B	429	PRO	CA-C-N	6.35	129.31	120.29
1	B	429	PRO	C-N-CA	6.35	129.31	120.29
1	E	429	PRO	CA-C-N	6.35	129.31	120.29
1	E	429	PRO	C-N-CA	6.35	129.31	120.29
1	F	429	PRO	CA-C-N	6.35	129.31	120.29
1	F	429	PRO	C-N-CA	6.35	129.31	120.29
1	G	429	PRO	CA-C-N	6.35	129.31	120.29
1	G	429	PRO	C-N-CA	6.35	129.31	120.29
1	M	429	PRO	CA-C-N	6.35	129.31	120.29
1	M	429	PRO	C-N-CA	6.35	129.31	120.29
1	P	429	PRO	CA-C-N	6.35	129.31	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	429	PRO	C-N-CA	6.35	129.31	120.29
1	d	429	PRO	CA-C-N	6.35	129.31	120.29
1	d	429	PRO	C-N-CA	6.35	129.31	120.29
1	k	429	PRO	CA-C-N	6.35	129.31	120.29
1	k	429	PRO	C-N-CA	6.35	129.31	120.29
1	r	429	PRO	CA-C-N	6.35	129.31	120.29
1	r	429	PRO	C-N-CA	6.35	129.31	120.29
1	u	429	PRO	CA-C-N	6.34	129.29	120.29
1	u	429	PRO	C-N-CA	6.34	129.29	120.29
1	z	429	PRO	CA-C-N	6.34	129.29	120.29
1	z	429	PRO	C-N-CA	6.34	129.29	120.29
1	8	429	PRO	CA-C-N	6.34	129.29	120.29
1	8	429	PRO	C-N-CA	6.34	129.29	120.29
1	V	429	PRO	CA-C-N	6.33	129.27	120.29
1	V	429	PRO	C-N-CA	6.33	129.27	120.29
1	q	429	PRO	CA-C-N	6.33	129.27	120.29
1	q	429	PRO	C-N-CA	6.33	129.27	120.29
1	5	429	PRO	CA-C-N	6.33	129.27	120.29
1	5	429	PRO	C-N-CA	6.33	129.27	120.29
1	Q	429	PRO	CA-C-N	6.32	129.26	120.29
1	Q	429	PRO	C-N-CA	6.32	129.26	120.29
1	a	429	PRO	CA-C-N	6.32	129.26	120.29
1	a	429	PRO	C-N-CA	6.32	129.26	120.29
1	f	429	PRO	CA-C-N	6.32	129.26	120.29
1	f	429	PRO	C-N-CA	6.32	129.26	120.29
1	E	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	F	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	G	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	N	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	O	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	P	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	i	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	j	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	k	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	r	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	s	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	t	432	ASP	CA-CB-CG	6.31	118.91	112.60
1	B	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	D	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	L	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	M	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	Q	432	ASP	CA-CB-CG	6.28	118.88	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	U	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	V	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	Z	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	a	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	c	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	d	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	f	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	h	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	p	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	q	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	u	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	w	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	y	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	z	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	4	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	5	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	7	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	8	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	H	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	I	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	J	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	W	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	X	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	Y	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	l	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	m	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	n	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	1	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	2	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	3	432	ASP	CA-CB-CG	6.28	118.88	112.60
1	A	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	C	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	K	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	R	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	T	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	b	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	e	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	g	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	o	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	v	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	x	432	ASP	CA-CB-CG	6.26	118.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	432	ASP	CA-CB-CG	6.26	118.86	112.60
1	E	431	VAL	N-CA-C	6.26	116.94	108.17
1	F	431	VAL	N-CA-C	6.26	116.94	108.17
1	G	431	VAL	N-CA-C	6.26	116.94	108.17
1	N	431	VAL	N-CA-C	6.26	116.94	108.17
1	O	431	VAL	N-CA-C	6.26	116.94	108.17
1	P	431	VAL	N-CA-C	6.26	116.94	108.17
1	i	431	VAL	N-CA-C	6.26	116.94	108.17
1	j	431	VAL	N-CA-C	6.26	116.94	108.17
1	k	431	VAL	N-CA-C	6.26	116.94	108.17
1	r	431	VAL	N-CA-C	6.26	116.94	108.17
1	s	431	VAL	N-CA-C	6.26	116.94	108.17
1	t	431	VAL	N-CA-C	6.26	116.94	108.17
1	V	431	VAL	N-CA-C	6.25	116.92	108.17
1	q	431	VAL	N-CA-C	6.25	116.92	108.17
1	u	431	VAL	N-CA-C	6.25	116.92	108.17
1	z	431	VAL	N-CA-C	6.25	116.92	108.17
1	5	431	VAL	N-CA-C	6.25	116.92	108.17
1	8	431	VAL	N-CA-C	6.25	116.92	108.17
1	H	431	VAL	N-CA-C	6.23	116.89	108.17
1	I	431	VAL	N-CA-C	6.23	116.89	108.17
1	J	431	VAL	N-CA-C	6.23	116.89	108.17
1	W	431	VAL	N-CA-C	6.23	116.89	108.17
1	X	431	VAL	N-CA-C	6.23	116.89	108.17
1	Y	431	VAL	N-CA-C	6.23	116.89	108.17
1	l	431	VAL	N-CA-C	6.23	116.89	108.17
1	m	431	VAL	N-CA-C	6.23	116.89	108.17
1	n	431	VAL	N-CA-C	6.23	116.89	108.17
1	1	431	VAL	N-CA-C	6.23	116.89	108.17
1	2	431	VAL	N-CA-C	6.23	116.89	108.17
1	3	431	VAL	N-CA-C	6.23	116.89	108.17
1	D	431	VAL	N-CA-C	6.22	116.89	108.17
1	L	431	VAL	N-CA-C	6.22	116.89	108.17
1	S	431	VAL	N-CA-C	6.22	116.89	108.17
1	U	431	VAL	N-CA-C	6.22	116.89	108.17
1	Z	431	VAL	N-CA-C	6.22	116.89	108.17
1	c	431	VAL	N-CA-C	6.22	116.89	108.17
1	h	431	VAL	N-CA-C	6.22	116.89	108.17
1	p	431	VAL	N-CA-C	6.22	116.89	108.17
1	w	431	VAL	N-CA-C	6.22	116.89	108.17
1	y	431	VAL	N-CA-C	6.22	116.89	108.17
1	4	431	VAL	N-CA-C	6.22	116.89	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	431	VAL	N-CA-C	6.22	116.89	108.17
1	B	509	ASN	N-CA-C	6.22	118.58	110.43
1	M	509	ASN	N-CA-C	6.22	118.58	110.43
1	Q	509	ASN	N-CA-C	6.22	118.58	110.43
1	V	509	ASN	N-CA-C	6.22	118.58	110.43
1	a	509	ASN	N-CA-C	6.22	118.58	110.43
1	d	509	ASN	N-CA-C	6.22	118.58	110.43
1	f	509	ASN	N-CA-C	6.22	118.58	110.43
1	q	509	ASN	N-CA-C	6.22	118.58	110.43
1	u	509	ASN	N-CA-C	6.22	118.58	110.43
1	z	509	ASN	N-CA-C	6.22	118.58	110.43
1	5	509	ASN	N-CA-C	6.22	118.58	110.43
1	8	509	ASN	N-CA-C	6.22	118.58	110.43
1	E	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	F	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	G	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	N	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	O	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	P	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	i	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	j	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	k	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	r	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	s	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	t	627	PHE	CA-CB-CG	6.22	120.02	113.80
1	J	489	PHE	N-CA-C	6.22	118.06	111.28
1	W	489	PHE	N-CA-C	6.22	118.06	111.28
1	l	489	PHE	N-CA-C	6.22	118.06	111.28
1	1	489	PHE	N-CA-C	6.22	118.06	111.28
1	2	489	PHE	N-CA-C	6.22	118.06	111.28
1	3	489	PHE	N-CA-C	6.22	118.06	111.28
1	B	431	VAL	N-CA-C	6.22	116.88	108.17
1	M	431	VAL	N-CA-C	6.22	116.88	108.17
1	Q	431	VAL	N-CA-C	6.22	116.88	108.17
1	a	431	VAL	N-CA-C	6.22	116.88	108.17
1	d	431	VAL	N-CA-C	6.22	116.88	108.17
1	f	431	VAL	N-CA-C	6.22	116.88	108.17
1	A	431	VAL	N-CA-C	6.22	116.87	108.17
1	C	431	VAL	N-CA-C	6.22	116.87	108.17
1	K	431	VAL	N-CA-C	6.22	116.87	108.17
1	R	431	VAL	N-CA-C	6.22	116.87	108.17
1	T	431	VAL	N-CA-C	6.22	116.87	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	431	VAL	N-CA-C	6.22	116.87	108.17
1	e	431	VAL	N-CA-C	6.22	116.87	108.17
1	g	431	VAL	N-CA-C	6.22	116.87	108.17
1	o	431	VAL	N-CA-C	6.22	116.87	108.17
1	v	431	VAL	N-CA-C	6.22	116.87	108.17
1	x	431	VAL	N-CA-C	6.22	116.87	108.17
1	6	431	VAL	N-CA-C	6.22	116.87	108.17
1	I	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	J	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	W	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	Y	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	l	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	n	627	PHE	CA-CB-CG	6.21	120.01	113.80
1	H	509	ASN	N-CA-C	6.21	118.56	110.43
1	I	509	ASN	N-CA-C	6.21	118.56	110.43
1	J	509	ASN	N-CA-C	6.21	118.56	110.43
1	N	489	PHE	N-CA-C	6.21	118.05	111.28
1	P	489	PHE	N-CA-C	6.21	118.05	111.28
1	W	509	ASN	N-CA-C	6.21	118.56	110.43
1	X	509	ASN	N-CA-C	6.21	118.56	110.43
1	Y	509	ASN	N-CA-C	6.21	118.56	110.43
1	i	489	PHE	N-CA-C	6.21	118.05	111.28
1	k	489	PHE	N-CA-C	6.21	118.05	111.28
1	l	509	ASN	N-CA-C	6.21	118.56	110.43
1	m	509	ASN	N-CA-C	6.21	118.56	110.43
1	n	509	ASN	N-CA-C	6.21	118.56	110.43
1	r	489	PHE	N-CA-C	6.21	118.05	111.28
1	s	489	PHE	N-CA-C	6.21	118.05	111.28
1	1	509	ASN	N-CA-C	6.21	118.56	110.43
1	2	509	ASN	N-CA-C	6.21	118.56	110.43
1	3	509	ASN	N-CA-C	6.21	118.56	110.43
1	A	489	PHE	N-CA-C	6.20	118.04	111.28
1	C	489	PHE	N-CA-C	6.20	118.04	111.28
1	K	489	PHE	N-CA-C	6.20	118.04	111.28
1	R	489	PHE	N-CA-C	6.20	118.04	111.28
1	T	489	PHE	N-CA-C	6.20	118.04	111.28
1	b	489	PHE	N-CA-C	6.20	118.04	111.28
1	e	489	PHE	N-CA-C	6.20	118.04	111.28
1	g	489	PHE	N-CA-C	6.20	118.04	111.28
1	o	489	PHE	N-CA-C	6.20	118.04	111.28
1	v	489	PHE	N-CA-C	6.20	118.04	111.28
1	x	489	PHE	N-CA-C	6.20	118.04	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	489	PHE	N-CA-C	6.20	118.04	111.28
1	A	509	ASN	N-CA-C	6.20	118.55	110.43
1	C	509	ASN	N-CA-C	6.20	118.55	110.43
1	E	509	ASN	N-CA-C	6.20	118.55	110.43
1	F	509	ASN	N-CA-C	6.20	118.55	110.43
1	G	509	ASN	N-CA-C	6.20	118.55	110.43
1	K	509	ASN	N-CA-C	6.20	118.55	110.43
1	N	509	ASN	N-CA-C	6.20	118.55	110.43
1	O	509	ASN	N-CA-C	6.20	118.55	110.43
1	P	509	ASN	N-CA-C	6.20	118.55	110.43
1	R	509	ASN	N-CA-C	6.20	118.55	110.43
1	T	509	ASN	N-CA-C	6.20	118.55	110.43
1	b	509	ASN	N-CA-C	6.20	118.55	110.43
1	e	509	ASN	N-CA-C	6.20	118.55	110.43
1	g	509	ASN	N-CA-C	6.20	118.55	110.43
1	i	509	ASN	N-CA-C	6.20	118.55	110.43
1	j	509	ASN	N-CA-C	6.20	118.55	110.43
1	k	509	ASN	N-CA-C	6.20	118.55	110.43
1	o	509	ASN	N-CA-C	6.20	118.55	110.43
1	r	509	ASN	N-CA-C	6.20	118.55	110.43
1	s	509	ASN	N-CA-C	6.20	118.55	110.43
1	t	509	ASN	N-CA-C	6.20	118.55	110.43
1	v	509	ASN	N-CA-C	6.20	118.55	110.43
1	x	509	ASN	N-CA-C	6.20	118.55	110.43
1	6	509	ASN	N-CA-C	6.20	118.55	110.43
1	A	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	C	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	H	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	K	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	R	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	T	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	X	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	b	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	e	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	g	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	m	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	o	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	v	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	x	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	1	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	2	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	3	627	PHE	CA-CB-CG	6.19	119.99	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	D	509	ASN	N-CA-C	6.19	118.54	110.43
1	L	509	ASN	N-CA-C	6.19	118.54	110.43
1	S	509	ASN	N-CA-C	6.19	118.54	110.43
1	S	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	U	509	ASN	N-CA-C	6.19	118.54	110.43
1	U	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	Z	509	ASN	N-CA-C	6.19	118.54	110.43
1	Z	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	c	509	ASN	N-CA-C	6.19	118.54	110.43
1	h	509	ASN	N-CA-C	6.19	118.54	110.43
1	h	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	p	509	ASN	N-CA-C	6.19	118.54	110.43
1	p	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	w	509	ASN	N-CA-C	6.19	118.54	110.43
1	y	509	ASN	N-CA-C	6.19	118.54	110.43
1	4	509	ASN	N-CA-C	6.19	118.54	110.43
1	4	627	PHE	CA-CB-CG	6.19	119.99	113.80
1	7	509	ASN	N-CA-C	6.19	118.54	110.43
1	B	489	PHE	N-CA-C	6.18	118.02	111.28
1	M	489	PHE	N-CA-C	6.18	118.02	111.28
1	Q	489	PHE	N-CA-C	6.18	118.02	111.28
1	V	489	PHE	N-CA-C	6.18	118.02	111.28
1	a	489	PHE	N-CA-C	6.18	118.02	111.28
1	d	489	PHE	N-CA-C	6.18	118.02	111.28
1	f	489	PHE	N-CA-C	6.18	118.02	111.28
1	q	489	PHE	N-CA-C	6.18	118.02	111.28
1	u	489	PHE	N-CA-C	6.18	118.02	111.28
1	z	489	PHE	N-CA-C	6.18	118.02	111.28
1	5	489	PHE	N-CA-C	6.18	118.02	111.28
1	8	489	PHE	N-CA-C	6.18	118.02	111.28
1	H	515	LEU	CA-C-O	-6.18	113.87	120.42
1	J	515	LEU	CA-C-O	-6.18	113.87	120.42
1	W	515	LEU	CA-C-O	-6.18	113.87	120.42
1	X	515	LEU	CA-C-O	-6.18	113.87	120.42
1	l	515	LEU	CA-C-O	-6.18	113.87	120.42
1	m	515	LEU	CA-C-O	-6.18	113.87	120.42
1	E	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	F	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	G	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	N	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	O	408	PHE	CA-CB-CG	6.17	119.97	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	i	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	j	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	k	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	r	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	s	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	t	408	PHE	CA-CB-CG	6.17	119.97	113.80
1	D	515	LEU	CA-C-O	-6.17	113.88	120.42
1	L	515	LEU	CA-C-O	-6.17	113.88	120.42
1	S	515	LEU	CA-C-O	-6.17	113.88	120.42
1	Z	515	LEU	CA-C-O	-6.17	113.88	120.42
1	c	515	LEU	CA-C-O	-6.17	113.88	120.42
1	h	515	LEU	CA-C-O	-6.17	113.88	120.42
1	B	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	M	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	d	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	u	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	z	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	8	627	PHE	CA-CB-CG	6.17	119.97	113.80
1	E	489	PHE	N-CA-C	6.17	118.00	111.28
1	F	489	PHE	N-CA-C	6.17	118.00	111.28
1	G	489	PHE	N-CA-C	6.17	118.00	111.28
1	O	489	PHE	N-CA-C	6.17	118.00	111.28
1	j	489	PHE	N-CA-C	6.17	118.00	111.28
1	t	489	PHE	N-CA-C	6.17	118.00	111.28
1	H	489	PHE	N-CA-C	6.16	118.00	111.28
1	I	489	PHE	N-CA-C	6.16	118.00	111.28
1	X	489	PHE	N-CA-C	6.16	118.00	111.28
1	Y	489	PHE	N-CA-C	6.16	118.00	111.28
1	m	489	PHE	N-CA-C	6.16	118.00	111.28
1	n	489	PHE	N-CA-C	6.16	118.00	111.28
1	D	489	PHE	N-CA-C	6.16	118.00	111.28
1	L	489	PHE	N-CA-C	6.16	118.00	111.28
1	S	489	PHE	N-CA-C	6.16	118.00	111.28
1	U	489	PHE	N-CA-C	6.16	118.00	111.28
1	Z	489	PHE	N-CA-C	6.16	118.00	111.28
1	c	489	PHE	N-CA-C	6.16	118.00	111.28
1	h	489	PHE	N-CA-C	6.16	118.00	111.28
1	p	489	PHE	N-CA-C	6.16	118.00	111.28
1	w	489	PHE	N-CA-C	6.16	118.00	111.28
1	y	489	PHE	N-CA-C	6.16	118.00	111.28
1	4	489	PHE	N-CA-C	6.16	118.00	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	489	PHE	N-CA-C	6.16	118.00	111.28
1	A	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	C	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	H	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	I	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	J	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	K	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	R	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	T	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	W	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	X	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	Y	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	b	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	e	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	g	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	l	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	m	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	n	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	o	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	v	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	x	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	1	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	2	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	3	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	6	408	PHE	CA-CB-CG	6.16	119.96	113.80
1	D	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	D	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	I	515	LEU	CA-C-O	-6.16	113.90	120.42
1	L	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	L	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	S	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	U	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	Y	515	LEU	CA-C-O	-6.16	113.90	120.42
1	Z	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	c	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	c	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	h	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	n	515	LEU	CA-C-O	-6.16	113.90	120.42
1	p	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	w	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	w	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	y	356	PHE	CA-CB-CG	6.16	119.95	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	1	515	LEU	CA-C-O	-6.16	113.90	120.42
1	2	515	LEU	CA-C-O	-6.16	113.90	120.42
1	3	515	LEU	CA-C-O	-6.16	113.90	120.42
1	4	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	7	356	PHE	CA-CB-CG	6.16	119.95	113.80
1	7	627	PHE	CA-CB-CG	6.16	119.96	113.80
1	B	515	LEU	CA-C-O	-6.15	113.90	120.42
1	M	515	LEU	CA-C-O	-6.15	113.90	120.42
1	Q	515	LEU	CA-C-O	-6.15	113.90	120.42
1	U	515	LEU	CA-C-O	-6.15	113.90	120.42
1	V	515	LEU	CA-C-O	-6.15	113.90	120.42
1	a	515	LEU	CA-C-O	-6.15	113.90	120.42
1	d	515	LEU	CA-C-O	-6.15	113.90	120.42
1	f	515	LEU	CA-C-O	-6.15	113.90	120.42
1	p	515	LEU	CA-C-O	-6.15	113.90	120.42
1	q	515	LEU	CA-C-O	-6.15	113.90	120.42
1	u	515	LEU	CA-C-O	-6.15	113.90	120.42
1	w	515	LEU	CA-C-O	-6.15	113.90	120.42
1	y	515	LEU	CA-C-O	-6.15	113.90	120.42
1	z	515	LEU	CA-C-O	-6.15	113.90	120.42
1	4	515	LEU	CA-C-O	-6.15	113.90	120.42
1	5	515	LEU	CA-C-O	-6.15	113.90	120.42
1	7	515	LEU	CA-C-O	-6.15	113.90	120.42
1	8	515	LEU	CA-C-O	-6.15	113.90	120.42
1	D	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	D	425	LYS	CB-CA-C	6.15	121.03	111.13
1	L	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	L	425	LYS	CB-CA-C	6.15	121.03	111.13
1	S	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	S	425	LYS	CB-CA-C	6.15	121.03	111.13
1	U	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	U	425	LYS	CB-CA-C	6.15	121.03	111.13
1	Z	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	Z	425	LYS	CB-CA-C	6.15	121.03	111.13
1	c	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	c	425	LYS	CB-CA-C	6.15	121.03	111.13
1	h	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	h	425	LYS	CB-CA-C	6.15	121.03	111.13
1	p	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	p	425	LYS	CB-CA-C	6.15	121.03	111.13
1	w	408	PHE	CA-CB-CG	6.15	119.95	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	425	LYS	CB-CA-C	6.15	121.03	111.13
1	y	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	y	425	LYS	CB-CA-C	6.15	121.03	111.13
1	4	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	4	425	LYS	CB-CA-C	6.15	121.03	111.13
1	7	408	PHE	CA-CB-CG	6.15	119.95	113.80
1	7	425	LYS	CB-CA-C	6.15	121.03	111.13
1	A	515	LEU	CA-C-O	-6.15	113.90	120.42
1	C	515	LEU	CA-C-O	-6.15	113.90	120.42
1	H	425	LYS	CB-CA-C	6.15	121.03	111.13
1	I	425	LYS	CB-CA-C	6.15	121.03	111.13
1	J	425	LYS	CB-CA-C	6.15	121.03	111.13
1	K	515	LEU	CA-C-O	-6.15	113.90	120.42
1	Q	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	R	515	LEU	CA-C-O	-6.15	113.90	120.42
1	T	515	LEU	CA-C-O	-6.15	113.90	120.42
1	V	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	W	425	LYS	CB-CA-C	6.15	121.03	111.13
1	X	425	LYS	CB-CA-C	6.15	121.03	111.13
1	Y	425	LYS	CB-CA-C	6.15	121.03	111.13
1	a	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	b	515	LEU	CA-C-O	-6.15	113.90	120.42
1	e	515	LEU	CA-C-O	-6.15	113.90	120.42
1	f	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	g	515	LEU	CA-C-O	-6.15	113.90	120.42
1	l	425	LYS	CB-CA-C	6.15	121.03	111.13
1	m	425	LYS	CB-CA-C	6.15	121.03	111.13
1	n	425	LYS	CB-CA-C	6.15	121.03	111.13
1	o	515	LEU	CA-C-O	-6.15	113.90	120.42
1	q	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	v	515	LEU	CA-C-O	-6.15	113.90	120.42
1	x	515	LEU	CA-C-O	-6.15	113.90	120.42
1	1	425	LYS	CB-CA-C	6.15	121.03	111.13
1	2	425	LYS	CB-CA-C	6.15	121.03	111.13
1	3	425	LYS	CB-CA-C	6.15	121.03	111.13
1	5	627	PHE	CA-CB-CG	6.15	119.95	113.80
1	6	515	LEU	CA-C-O	-6.15	113.90	120.42
1	B	425	LYS	CB-CA-C	6.14	121.02	111.13
1	M	425	LYS	CB-CA-C	6.14	121.02	111.13
1	Q	425	LYS	CB-CA-C	6.14	121.02	111.13
1	V	425	LYS	CB-CA-C	6.14	121.02	111.13
1	a	425	LYS	CB-CA-C	6.14	121.02	111.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	425	LYS	CB-CA-C	6.14	121.02	111.13
1	f	425	LYS	CB-CA-C	6.14	121.02	111.13
1	q	425	LYS	CB-CA-C	6.14	121.02	111.13
1	u	425	LYS	CB-CA-C	6.14	121.02	111.13
1	z	425	LYS	CB-CA-C	6.14	121.02	111.13
1	5	425	LYS	CB-CA-C	6.14	121.02	111.13
1	8	425	LYS	CB-CA-C	6.14	121.02	111.13
1	B	440	SER	N-CA-C	6.14	118.19	108.79
1	M	440	SER	N-CA-C	6.14	118.19	108.79
1	Q	440	SER	N-CA-C	6.14	118.19	108.79
1	V	440	SER	N-CA-C	6.14	118.19	108.79
1	a	440	SER	N-CA-C	6.14	118.19	108.79
1	d	440	SER	N-CA-C	6.14	118.19	108.79
1	f	440	SER	N-CA-C	6.14	118.19	108.79
1	q	440	SER	N-CA-C	6.14	118.19	108.79
1	u	440	SER	N-CA-C	6.14	118.19	108.79
1	z	440	SER	N-CA-C	6.14	118.19	108.79
1	5	440	SER	N-CA-C	6.14	118.19	108.79
1	8	440	SER	N-CA-C	6.14	118.19	108.79
1	A	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	C	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	K	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	R	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	T	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	b	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	e	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	g	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	o	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	v	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	x	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	6	356	PHE	CA-CB-CG	6.14	119.94	113.80
1	B	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	M	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	Q	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	V	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	a	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	d	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	f	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	q	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	u	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	z	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	5	408	PHE	CA-CB-CG	6.14	119.94	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	408	PHE	CA-CB-CG	6.14	119.94	113.80
1	E	425	LYS	CB-CA-C	6.13	121.00	111.13
1	F	425	LYS	CB-CA-C	6.13	121.00	111.13
1	G	425	LYS	CB-CA-C	6.13	121.00	111.13
1	N	425	LYS	CB-CA-C	6.13	121.00	111.13
1	O	425	LYS	CB-CA-C	6.13	121.00	111.13
1	P	425	LYS	CB-CA-C	6.13	121.00	111.13
1	i	425	LYS	CB-CA-C	6.13	121.00	111.13
1	j	425	LYS	CB-CA-C	6.13	121.00	111.13
1	k	425	LYS	CB-CA-C	6.13	121.00	111.13
1	r	425	LYS	CB-CA-C	6.13	121.00	111.13
1	s	425	LYS	CB-CA-C	6.13	121.00	111.13
1	t	425	LYS	CB-CA-C	6.13	121.00	111.13
1	E	515	LEU	CA-C-O	-6.12	113.93	120.42
1	F	515	LEU	CA-C-O	-6.12	113.93	120.42
1	G	515	LEU	CA-C-O	-6.12	113.93	120.42
1	H	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	I	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	J	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	N	515	LEU	CA-C-O	-6.12	113.93	120.42
1	O	515	LEU	CA-C-O	-6.12	113.93	120.42
1	P	515	LEU	CA-C-O	-6.12	113.93	120.42
1	W	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	X	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	Y	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	i	515	LEU	CA-C-O	-6.12	113.93	120.42
1	j	515	LEU	CA-C-O	-6.12	113.93	120.42
1	k	515	LEU	CA-C-O	-6.12	113.93	120.42
1	l	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	m	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	n	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	r	515	LEU	CA-C-O	-6.12	113.93	120.42
1	s	515	LEU	CA-C-O	-6.12	113.93	120.42
1	t	515	LEU	CA-C-O	-6.12	113.93	120.42
1	1	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	2	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	3	356	PHE	CA-CB-CG	6.12	119.92	113.80
1	A	425	LYS	CB-CA-C	6.12	120.99	111.13
1	A	440	SER	N-CA-C	6.12	118.16	108.79
1	C	425	LYS	CB-CA-C	6.12	120.99	111.13
1	C	440	SER	N-CA-C	6.12	118.16	108.79
1	K	425	LYS	CB-CA-C	6.12	120.99	111.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	440	SER	N-CA-C	6.12	118.16	108.79
1	R	425	LYS	CB-CA-C	6.12	120.99	111.13
1	R	440	SER	N-CA-C	6.12	118.16	108.79
1	T	425	LYS	CB-CA-C	6.12	120.99	111.13
1	T	440	SER	N-CA-C	6.12	118.16	108.79
1	b	425	LYS	CB-CA-C	6.12	120.99	111.13
1	b	440	SER	N-CA-C	6.12	118.16	108.79
1	e	425	LYS	CB-CA-C	6.12	120.99	111.13
1	e	440	SER	N-CA-C	6.12	118.16	108.79
1	g	425	LYS	CB-CA-C	6.12	120.99	111.13
1	g	440	SER	N-CA-C	6.12	118.16	108.79
1	o	425	LYS	CB-CA-C	6.12	120.99	111.13
1	o	440	SER	N-CA-C	6.12	118.16	108.79
1	v	425	LYS	CB-CA-C	6.12	120.99	111.13
1	v	440	SER	N-CA-C	6.12	118.16	108.79
1	x	425	LYS	CB-CA-C	6.12	120.99	111.13
1	x	440	SER	N-CA-C	6.12	118.16	108.79
1	6	425	LYS	CB-CA-C	6.12	120.99	111.13
1	6	440	SER	N-CA-C	6.12	118.16	108.79
1	E	440	SER	N-CA-C	6.12	118.16	108.79
1	F	440	SER	N-CA-C	6.12	118.16	108.79
1	G	440	SER	N-CA-C	6.12	118.16	108.79
1	N	440	SER	N-CA-C	6.12	118.16	108.79
1	O	440	SER	N-CA-C	6.12	118.16	108.79
1	P	440	SER	N-CA-C	6.12	118.16	108.79
1	i	440	SER	N-CA-C	6.12	118.16	108.79
1	j	440	SER	N-CA-C	6.12	118.16	108.79
1	k	440	SER	N-CA-C	6.12	118.16	108.79
1	r	440	SER	N-CA-C	6.12	118.16	108.79
1	s	440	SER	N-CA-C	6.12	118.16	108.79
1	t	440	SER	N-CA-C	6.12	118.16	108.79
1	D	440	SER	N-CA-C	6.12	118.15	108.79
1	H	440	SER	N-CA-C	6.12	118.15	108.79
1	I	440	SER	N-CA-C	6.12	118.15	108.79
1	J	440	SER	N-CA-C	6.12	118.15	108.79
1	L	440	SER	N-CA-C	6.12	118.15	108.79
1	S	440	SER	N-CA-C	6.12	118.15	108.79
1	U	440	SER	N-CA-C	6.12	118.15	108.79
1	W	440	SER	N-CA-C	6.12	118.15	108.79
1	X	440	SER	N-CA-C	6.12	118.15	108.79
1	Y	440	SER	N-CA-C	6.12	118.15	108.79
1	Z	440	SER	N-CA-C	6.12	118.15	108.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	440	SER	N-CA-C	6.12	118.15	108.79
1	h	440	SER	N-CA-C	6.12	118.15	108.79
1	l	440	SER	N-CA-C	6.12	118.15	108.79
1	m	440	SER	N-CA-C	6.12	118.15	108.79
1	n	440	SER	N-CA-C	6.12	118.15	108.79
1	p	440	SER	N-CA-C	6.12	118.15	108.79
1	w	440	SER	N-CA-C	6.12	118.15	108.79
1	y	440	SER	N-CA-C	6.12	118.15	108.79
1	1	440	SER	N-CA-C	6.12	118.15	108.79
1	2	440	SER	N-CA-C	6.12	118.15	108.79
1	3	440	SER	N-CA-C	6.12	118.15	108.79
1	4	440	SER	N-CA-C	6.12	118.15	108.79
1	7	440	SER	N-CA-C	6.12	118.15	108.79
1	B	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	M	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	Q	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	V	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	a	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	d	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	f	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	q	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	u	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	z	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	5	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	8	356	PHE	CA-CB-CG	6.11	119.91	113.80
1	E	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	F	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	G	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	N	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	O	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	P	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	i	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	j	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	k	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	r	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	s	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	t	356	PHE	CA-CB-CG	6.08	119.88	113.80
1	E	566	GLY	N-CA-C	6.03	119.97	112.73
1	F	566	GLY	N-CA-C	6.03	119.97	112.73
1	G	566	GLY	N-CA-C	6.03	119.97	112.73
1	N	566	GLY	N-CA-C	6.03	119.97	112.73
1	O	566	GLY	N-CA-C	6.03	119.97	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	566	GLY	N-CA-C	6.03	119.97	112.73
1	V	566	GLY	N-CA-C	6.03	119.97	112.73
1	i	566	GLY	N-CA-C	6.03	119.97	112.73
1	j	566	GLY	N-CA-C	6.03	119.97	112.73
1	k	566	GLY	N-CA-C	6.03	119.97	112.73
1	q	566	GLY	N-CA-C	6.03	119.97	112.73
1	r	566	GLY	N-CA-C	6.03	119.97	112.73
1	s	566	GLY	N-CA-C	6.03	119.97	112.73
1	t	566	GLY	N-CA-C	6.03	119.97	112.73
1	u	566	GLY	N-CA-C	6.03	119.97	112.73
1	z	566	GLY	N-CA-C	6.03	119.97	112.73
1	5	566	GLY	N-CA-C	6.03	119.97	112.73
1	8	566	GLY	N-CA-C	6.03	119.97	112.73
1	A	566	GLY	N-CA-C	6.02	119.96	112.73
1	C	566	GLY	N-CA-C	6.02	119.96	112.73
1	K	566	GLY	N-CA-C	6.02	119.96	112.73
1	R	566	GLY	N-CA-C	6.02	119.96	112.73
1	T	566	GLY	N-CA-C	6.02	119.96	112.73
1	b	566	GLY	N-CA-C	6.02	119.96	112.73
1	e	566	GLY	N-CA-C	6.02	119.96	112.73
1	g	566	GLY	N-CA-C	6.02	119.96	112.73
1	o	566	GLY	N-CA-C	6.02	119.96	112.73
1	v	566	GLY	N-CA-C	6.02	119.96	112.73
1	x	566	GLY	N-CA-C	6.02	119.96	112.73
1	6	566	GLY	N-CA-C	6.02	119.96	112.73
1	D	566	GLY	N-CA-C	6.01	119.95	112.73
1	L	566	GLY	N-CA-C	6.01	119.95	112.73
1	S	566	GLY	N-CA-C	6.01	119.95	112.73
1	U	566	GLY	N-CA-C	6.01	119.95	112.73
1	Z	566	GLY	N-CA-C	6.01	119.95	112.73
1	c	566	GLY	N-CA-C	6.01	119.95	112.73
1	h	566	GLY	N-CA-C	6.01	119.95	112.73
1	p	566	GLY	N-CA-C	6.01	119.95	112.73
1	w	566	GLY	N-CA-C	6.01	119.95	112.73
1	y	566	GLY	N-CA-C	6.01	119.95	112.73
1	4	566	GLY	N-CA-C	6.01	119.95	112.73
1	7	566	GLY	N-CA-C	6.01	119.95	112.73
1	H	566	GLY	N-CA-C	6.01	119.94	112.73
1	I	566	GLY	N-CA-C	6.01	119.94	112.73
1	J	566	GLY	N-CA-C	6.01	119.94	112.73
1	W	566	GLY	N-CA-C	6.01	119.94	112.73
1	X	566	GLY	N-CA-C	6.01	119.94	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	566	GLY	N-CA-C	6.01	119.94	112.73
1	l	566	GLY	N-CA-C	6.01	119.94	112.73
1	m	566	GLY	N-CA-C	6.01	119.94	112.73
1	n	566	GLY	N-CA-C	6.01	119.94	112.73
1	1	566	GLY	N-CA-C	6.01	119.94	112.73
1	2	566	GLY	N-CA-C	6.01	119.94	112.73
1	3	566	GLY	N-CA-C	6.01	119.94	112.73
1	B	566	GLY	N-CA-C	5.99	119.91	112.73
1	M	566	GLY	N-CA-C	5.99	119.91	112.73
1	Q	566	GLY	N-CA-C	5.99	119.91	112.73
1	a	566	GLY	N-CA-C	5.99	119.91	112.73
1	d	566	GLY	N-CA-C	5.99	119.91	112.73
1	f	566	GLY	N-CA-C	5.99	119.91	112.73
1	E	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	F	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	G	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	N	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	O	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	P	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	S	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	U	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	Z	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	h	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	i	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	j	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	k	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	p	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	r	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	s	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	t	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	4	340	GLN	N-CA-CB	-5.98	101.30	110.16
1	H	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	I	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	J	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	W	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	X	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	Y	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	l	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	m	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	n	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	1	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	2	340	GLN	N-CA-CB	-5.98	101.31	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	340	GLN	N-CA-CB	-5.98	101.31	110.16
1	D	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	L	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	c	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	w	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	y	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	7	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	B	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	M	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	Q	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	V	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	a	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	d	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	f	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	q	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	u	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	z	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	5	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	8	340	GLN	N-CA-CB	-5.97	101.32	110.16
1	H	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	I	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	J	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	W	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	X	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	Y	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	l	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	m	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	n	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	1	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	2	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	3	274	ASP	CA-CB-CG	5.97	118.57	112.60
1	D	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	L	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	S	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	U	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	Z	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	c	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	h	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	p	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	w	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	y	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	4	274	ASP	CA-CB-CG	5.96	118.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	274	ASP	CA-CB-CG	5.96	118.56	112.60
1	A	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	C	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	K	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	R	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	T	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	b	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	e	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	g	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	o	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	v	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	x	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	6	340	GLN	N-CA-CB	-5.96	101.34	110.16
1	D	270	TRP	N-CA-C	5.95	118.39	110.53
1	L	270	TRP	N-CA-C	5.95	118.39	110.53
1	S	270	TRP	N-CA-C	5.95	118.39	110.53
1	U	270	TRP	N-CA-C	5.95	118.39	110.53
1	Z	270	TRP	N-CA-C	5.95	118.39	110.53
1	c	270	TRP	N-CA-C	5.95	118.39	110.53
1	h	270	TRP	N-CA-C	5.95	118.39	110.53
1	p	270	TRP	N-CA-C	5.95	118.39	110.53
1	w	270	TRP	N-CA-C	5.95	118.39	110.53
1	y	270	TRP	N-CA-C	5.95	118.39	110.53
1	4	270	TRP	N-CA-C	5.95	118.39	110.53
1	7	270	TRP	N-CA-C	5.95	118.39	110.53
1	A	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	C	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	H	270	TRP	N-CA-C	5.95	118.38	110.53
1	I	270	TRP	N-CA-C	5.95	118.38	110.53
1	J	270	TRP	N-CA-C	5.95	118.38	110.53
1	K	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	R	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	T	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	W	270	TRP	N-CA-C	5.95	118.38	110.53
1	X	270	TRP	N-CA-C	5.95	118.38	110.53
1	Y	270	TRP	N-CA-C	5.95	118.38	110.53
1	b	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	e	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	g	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	l	270	TRP	N-CA-C	5.95	118.38	110.53
1	m	270	TRP	N-CA-C	5.95	118.38	110.53
1	n	270	TRP	N-CA-C	5.95	118.38	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	v	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	x	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	1	270	TRP	N-CA-C	5.95	118.38	110.53
1	2	270	TRP	N-CA-C	5.95	118.38	110.53
1	3	270	TRP	N-CA-C	5.95	118.38	110.53
1	6	274	ASP	CA-CB-CG	5.95	118.55	112.60
1	B	270	TRP	N-CA-C	5.94	118.36	110.53
1	M	270	TRP	N-CA-C	5.94	118.36	110.53
1	Q	270	TRP	N-CA-C	5.94	118.36	110.53
1	V	270	TRP	N-CA-C	5.94	118.36	110.53
1	a	270	TRP	N-CA-C	5.94	118.36	110.53
1	d	270	TRP	N-CA-C	5.94	118.36	110.53
1	f	270	TRP	N-CA-C	5.94	118.36	110.53
1	q	270	TRP	N-CA-C	5.94	118.36	110.53
1	u	270	TRP	N-CA-C	5.94	118.36	110.53
1	z	270	TRP	N-CA-C	5.94	118.36	110.53
1	5	270	TRP	N-CA-C	5.94	118.36	110.53
1	8	270	TRP	N-CA-C	5.94	118.36	110.53
1	B	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	E	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	F	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	G	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	M	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	P	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	Q	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	V	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	a	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	d	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	f	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	k	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	q	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	r	459	ASN	CB-CA-C	-5.93	101.91	111.28
1	u	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	z	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	5	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	8	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	E	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	F	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	G	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	N	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	O	274	ASP	CA-CB-CG	5.93	118.53	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	i	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	j	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	k	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	r	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	s	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	t	274	ASP	CA-CB-CG	5.93	118.53	112.60
1	H	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	I	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	J	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	W	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	X	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	Y	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	l	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	m	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	n	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	1	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	2	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	3	459	ASN	CB-CA-C	-5.93	101.92	111.28
1	A	270	TRP	N-CA-C	5.92	118.35	110.53
1	C	270	TRP	N-CA-C	5.92	118.35	110.53
1	K	270	TRP	N-CA-C	5.92	118.35	110.53
1	R	270	TRP	N-CA-C	5.92	118.35	110.53
1	T	270	TRP	N-CA-C	5.92	118.35	110.53
1	b	270	TRP	N-CA-C	5.92	118.35	110.53
1	e	270	TRP	N-CA-C	5.92	118.35	110.53
1	g	270	TRP	N-CA-C	5.92	118.35	110.53
1	o	270	TRP	N-CA-C	5.92	118.35	110.53
1	v	270	TRP	N-CA-C	5.92	118.35	110.53
1	x	270	TRP	N-CA-C	5.92	118.35	110.53
1	6	270	TRP	N-CA-C	5.92	118.35	110.53
1	N	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	O	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	i	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	j	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	s	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	t	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	D	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	L	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	S	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	U	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	Z	459	ASN	CB-CA-C	-5.91	101.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	h	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	p	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	w	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	y	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	4	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	7	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	B	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	E	270	TRP	N-CA-C	5.91	118.33	110.53
1	F	270	TRP	N-CA-C	5.91	118.33	110.53
1	G	270	TRP	N-CA-C	5.91	118.33	110.53
1	M	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	N	270	TRP	N-CA-C	5.91	118.33	110.53
1	O	270	TRP	N-CA-C	5.91	118.33	110.53
1	P	270	TRP	N-CA-C	5.91	118.33	110.53
1	Q	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	a	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	d	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	f	459	ASN	CB-CA-C	-5.91	101.94	111.28
1	i	270	TRP	N-CA-C	5.91	118.33	110.53
1	j	270	TRP	N-CA-C	5.91	118.33	110.53
1	k	270	TRP	N-CA-C	5.91	118.33	110.53
1	r	270	TRP	N-CA-C	5.91	118.33	110.53
1	s	270	TRP	N-CA-C	5.91	118.33	110.53
1	t	270	TRP	N-CA-C	5.91	118.33	110.53
1	A	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	C	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	K	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	R	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	T	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	b	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	e	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	g	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	o	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	v	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	x	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	6	459	ASN	CB-CA-C	-5.90	101.95	111.28
1	V	459	ASN	CB-CA-C	-5.89	101.98	111.28
1	q	459	ASN	CB-CA-C	-5.89	101.98	111.28
1	u	459	ASN	CB-CA-C	-5.89	101.98	111.28
1	z	459	ASN	CB-CA-C	-5.89	101.98	111.28
1	5	459	ASN	CB-CA-C	-5.89	101.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	459	ASN	CB-CA-C	-5.89	101.98	111.28
1	S	457	TYR	CB-CA-C	5.83	121.41	110.63
1	U	457	TYR	CB-CA-C	5.83	121.41	110.63
1	Z	457	TYR	CB-CA-C	5.83	121.41	110.63
1	h	457	TYR	CB-CA-C	5.83	121.41	110.63
1	p	457	TYR	CB-CA-C	5.83	121.41	110.63
1	4	457	TYR	CB-CA-C	5.83	121.41	110.63
1	E	457	TYR	CB-CA-C	5.82	121.40	110.63
1	F	457	TYR	CB-CA-C	5.82	121.40	110.63
1	G	457	TYR	CB-CA-C	5.82	121.40	110.63
1	H	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	I	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	J	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	N	457	TYR	CB-CA-C	5.82	121.40	110.63
1	O	457	TYR	CB-CA-C	5.82	121.40	110.63
1	P	457	TYR	CB-CA-C	5.82	121.40	110.63
1	W	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	X	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	Y	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	i	457	TYR	CB-CA-C	5.82	121.40	110.63
1	j	457	TYR	CB-CA-C	5.82	121.40	110.63
1	k	457	TYR	CB-CA-C	5.82	121.40	110.63
1	l	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	m	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	n	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	r	457	TYR	CB-CA-C	5.82	121.40	110.63
1	s	457	TYR	CB-CA-C	5.82	121.40	110.63
1	t	457	TYR	CB-CA-C	5.82	121.40	110.63
1	1	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	2	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	3	364	PRO	N-CA-CB	-5.82	97.92	103.34
1	Q	476	ASN	CB-CA-C	5.82	120.17	109.46
1	a	476	ASN	CB-CA-C	5.82	120.17	109.46
1	f	476	ASN	CB-CA-C	5.82	120.17	109.46
1	P	292	ASN	CB-CA-C	5.82	120.74	110.85
1	k	292	ASN	CB-CA-C	5.82	120.74	110.85
1	r	292	ASN	CB-CA-C	5.82	120.74	110.85
1	B	457	TYR	CB-CA-C	5.82	121.39	110.63
1	H	457	TYR	CB-CA-C	5.82	121.39	110.63
1	I	457	TYR	CB-CA-C	5.82	121.39	110.63
1	J	457	TYR	CB-CA-C	5.82	121.39	110.63
1	M	457	TYR	CB-CA-C	5.82	121.39	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	457	TYR	CB-CA-C	5.82	121.39	110.63
1	X	457	TYR	CB-CA-C	5.82	121.39	110.63
1	Y	457	TYR	CB-CA-C	5.82	121.39	110.63
1	d	457	TYR	CB-CA-C	5.82	121.39	110.63
1	l	457	TYR	CB-CA-C	5.82	121.39	110.63
1	m	457	TYR	CB-CA-C	5.82	121.39	110.63
1	n	457	TYR	CB-CA-C	5.82	121.39	110.63
1	u	457	TYR	CB-CA-C	5.82	121.39	110.63
1	z	457	TYR	CB-CA-C	5.82	121.39	110.63
1	1	457	TYR	CB-CA-C	5.82	121.39	110.63
1	2	457	TYR	CB-CA-C	5.82	121.39	110.63
1	3	457	TYR	CB-CA-C	5.82	121.39	110.63
1	8	457	TYR	CB-CA-C	5.82	121.39	110.63
1	D	457	TYR	CB-CA-C	5.81	121.39	110.63
1	E	292	ASN	CB-CA-C	5.81	120.73	110.85
1	F	292	ASN	CB-CA-C	5.81	120.73	110.85
1	G	292	ASN	CB-CA-C	5.81	120.73	110.85
1	L	457	TYR	CB-CA-C	5.81	121.39	110.63
1	c	457	TYR	CB-CA-C	5.81	121.39	110.63
1	w	457	TYR	CB-CA-C	5.81	121.39	110.63
1	y	457	TYR	CB-CA-C	5.81	121.39	110.63
1	7	457	TYR	CB-CA-C	5.81	121.39	110.63
1	H	476	ASN	CB-CA-C	5.81	120.15	109.46
1	I	476	ASN	CB-CA-C	5.81	120.15	109.46
1	J	476	ASN	CB-CA-C	5.81	120.15	109.46
1	W	476	ASN	CB-CA-C	5.81	120.15	109.46
1	X	476	ASN	CB-CA-C	5.81	120.15	109.46
1	Y	476	ASN	CB-CA-C	5.81	120.15	109.46
1	l	476	ASN	CB-CA-C	5.81	120.15	109.46
1	m	476	ASN	CB-CA-C	5.81	120.15	109.46
1	n	476	ASN	CB-CA-C	5.81	120.15	109.46
1	1	476	ASN	CB-CA-C	5.81	120.15	109.46
1	2	476	ASN	CB-CA-C	5.81	120.15	109.46
1	3	476	ASN	CB-CA-C	5.81	120.15	109.46
1	A	457	TYR	CB-CA-C	5.81	121.38	110.63
1	C	457	TYR	CB-CA-C	5.81	121.38	110.63
1	K	457	TYR	CB-CA-C	5.81	121.38	110.63
1	R	457	TYR	CB-CA-C	5.81	121.38	110.63
1	T	457	TYR	CB-CA-C	5.81	121.38	110.63
1	b	457	TYR	CB-CA-C	5.81	121.38	110.63
1	e	457	TYR	CB-CA-C	5.81	121.38	110.63
1	g	457	TYR	CB-CA-C	5.81	121.38	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	457	TYR	CB-CA-C	5.81	121.38	110.63
1	u	476	ASN	CB-CA-C	5.81	120.15	109.46
1	v	457	TYR	CB-CA-C	5.81	121.38	110.63
1	x	457	TYR	CB-CA-C	5.81	121.38	110.63
1	z	476	ASN	CB-CA-C	5.81	120.15	109.46
1	6	457	TYR	CB-CA-C	5.81	121.38	110.63
1	8	476	ASN	CB-CA-C	5.81	120.15	109.46
1	Q	292	ASN	CB-CA-C	5.80	120.72	110.85
1	V	476	ASN	CB-CA-C	5.80	120.14	109.46
1	a	292	ASN	CB-CA-C	5.80	120.72	110.85
1	f	292	ASN	CB-CA-C	5.80	120.72	110.85
1	q	476	ASN	CB-CA-C	5.80	120.14	109.46
1	5	476	ASN	CB-CA-C	5.80	120.14	109.46
1	A	292	ASN	CB-CA-C	5.80	120.72	110.85
1	C	292	ASN	CB-CA-C	5.80	120.72	110.85
1	H	292	ASN	CB-CA-C	5.80	120.72	110.85
1	K	292	ASN	CB-CA-C	5.80	120.72	110.85
1	R	292	ASN	CB-CA-C	5.80	120.72	110.85
1	T	292	ASN	CB-CA-C	5.80	120.72	110.85
1	X	292	ASN	CB-CA-C	5.80	120.72	110.85
1	b	292	ASN	CB-CA-C	5.80	120.72	110.85
1	e	292	ASN	CB-CA-C	5.80	120.72	110.85
1	g	292	ASN	CB-CA-C	5.80	120.72	110.85
1	m	292	ASN	CB-CA-C	5.80	120.72	110.85
1	o	292	ASN	CB-CA-C	5.80	120.72	110.85
1	v	292	ASN	CB-CA-C	5.80	120.72	110.85
1	x	292	ASN	CB-CA-C	5.80	120.72	110.85
1	6	292	ASN	CB-CA-C	5.80	120.72	110.85
1	S	476	ASN	CB-CA-C	5.80	120.13	109.46
1	U	476	ASN	CB-CA-C	5.80	120.13	109.46
1	Z	476	ASN	CB-CA-C	5.80	120.13	109.46
1	h	476	ASN	CB-CA-C	5.80	120.13	109.46
1	p	476	ASN	CB-CA-C	5.80	120.13	109.46
1	4	476	ASN	CB-CA-C	5.80	120.13	109.46
1	E	476	ASN	CB-CA-C	5.80	120.13	109.46
1	F	476	ASN	CB-CA-C	5.80	120.13	109.46
1	G	476	ASN	CB-CA-C	5.80	120.13	109.46
1	N	476	ASN	CB-CA-C	5.80	120.13	109.46
1	O	476	ASN	CB-CA-C	5.80	120.13	109.46
1	P	476	ASN	CB-CA-C	5.80	120.13	109.46
1	i	476	ASN	CB-CA-C	5.80	120.13	109.46
1	j	476	ASN	CB-CA-C	5.80	120.13	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	476	ASN	CB-CA-C	5.80	120.13	109.46
1	r	476	ASN	CB-CA-C	5.80	120.13	109.46
1	s	476	ASN	CB-CA-C	5.80	120.13	109.46
1	t	476	ASN	CB-CA-C	5.80	120.13	109.46
1	A	476	ASN	CB-CA-C	5.79	120.12	109.46
1	C	476	ASN	CB-CA-C	5.79	120.12	109.46
1	K	476	ASN	CB-CA-C	5.79	120.12	109.46
1	R	476	ASN	CB-CA-C	5.79	120.12	109.46
1	T	476	ASN	CB-CA-C	5.79	120.12	109.46
1	b	476	ASN	CB-CA-C	5.79	120.12	109.46
1	e	476	ASN	CB-CA-C	5.79	120.12	109.46
1	g	476	ASN	CB-CA-C	5.79	120.12	109.46
1	o	476	ASN	CB-CA-C	5.79	120.12	109.46
1	v	476	ASN	CB-CA-C	5.79	120.12	109.46
1	x	476	ASN	CB-CA-C	5.79	120.12	109.46
1	1	292	ASN	CB-CA-C	5.79	120.70	110.85
1	2	292	ASN	CB-CA-C	5.79	120.70	110.85
1	3	292	ASN	CB-CA-C	5.79	120.70	110.85
1	6	476	ASN	CB-CA-C	5.79	120.12	109.46
1	B	292	ASN	CB-CA-C	5.79	120.70	110.85
1	B	476	ASN	CB-CA-C	5.79	120.12	109.46
1	M	292	ASN	CB-CA-C	5.79	120.70	110.85
1	M	476	ASN	CB-CA-C	5.79	120.12	109.46
1	d	292	ASN	CB-CA-C	5.79	120.70	110.85
1	d	476	ASN	CB-CA-C	5.79	120.12	109.46
1	I	292	ASN	CB-CA-C	5.79	120.69	110.85
1	Y	292	ASN	CB-CA-C	5.79	120.69	110.85
1	n	292	ASN	CB-CA-C	5.79	120.69	110.85
1	D	476	ASN	CB-CA-C	5.79	120.11	109.46
1	E	468	PRO	N-CA-C	5.79	120.17	111.14
1	F	468	PRO	N-CA-C	5.79	120.17	111.14
1	G	468	PRO	N-CA-C	5.79	120.17	111.14
1	L	476	ASN	CB-CA-C	5.79	120.11	109.46
1	N	468	PRO	N-CA-C	5.79	120.17	111.14
1	c	476	ASN	CB-CA-C	5.79	120.11	109.46
1	i	468	PRO	N-CA-C	5.79	120.17	111.14
1	s	468	PRO	N-CA-C	5.79	120.17	111.14
1	w	476	ASN	CB-CA-C	5.79	120.11	109.46
1	y	476	ASN	CB-CA-C	5.79	120.11	109.46
1	7	476	ASN	CB-CA-C	5.79	120.11	109.46
1	A	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	C	364	PRO	N-CA-CB	-5.79	97.96	103.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	K	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	L	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	N	292	ASN	CB-CA-C	5.79	120.69	110.85
1	R	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	S	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	T	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	U	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	Z	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	b	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	c	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	e	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	g	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	h	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	i	292	ASN	CB-CA-C	5.79	120.69	110.85
1	o	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	p	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	s	292	ASN	CB-CA-C	5.79	120.69	110.85
1	v	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	w	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	x	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	y	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	4	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	6	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	7	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	u	292	ASN	CB-CA-C	5.79	120.69	110.85
1	z	292	ASN	CB-CA-C	5.79	120.69	110.85
1	8	292	ASN	CB-CA-C	5.79	120.69	110.85
1	D	292	ASN	CB-CA-C	5.79	120.68	110.85
1	E	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	F	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	G	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	L	292	ASN	CB-CA-C	5.79	120.68	110.85
1	N	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	O	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	P	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	S	292	ASN	CB-CA-C	5.79	120.68	110.85
1	U	292	ASN	CB-CA-C	5.79	120.68	110.85
1	Z	292	ASN	CB-CA-C	5.79	120.68	110.85
1	c	292	ASN	CB-CA-C	5.79	120.68	110.85
1	h	292	ASN	CB-CA-C	5.79	120.68	110.85
1	i	364	PRO	N-CA-CB	-5.79	97.96	103.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	k	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	p	292	ASN	CB-CA-C	5.79	120.68	110.85
1	r	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	s	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	t	364	PRO	N-CA-CB	-5.79	97.96	103.34
1	w	292	ASN	CB-CA-C	5.79	120.68	110.85
1	y	292	ASN	CB-CA-C	5.79	120.68	110.85
1	4	292	ASN	CB-CA-C	5.79	120.68	110.85
1	7	292	ASN	CB-CA-C	5.79	120.68	110.85
1	J	292	ASN	CB-CA-C	5.78	120.68	110.85
1	O	292	ASN	CB-CA-C	5.78	120.68	110.85
1	W	292	ASN	CB-CA-C	5.78	120.68	110.85
1	j	292	ASN	CB-CA-C	5.78	120.68	110.85
1	l	292	ASN	CB-CA-C	5.78	120.68	110.85
1	t	292	ASN	CB-CA-C	5.78	120.68	110.85
1	Q	457	TYR	CB-CA-C	5.78	121.33	110.63
1	V	457	TYR	CB-CA-C	5.78	121.33	110.63
1	a	457	TYR	CB-CA-C	5.78	121.33	110.63
1	f	457	TYR	CB-CA-C	5.78	121.33	110.63
1	q	457	TYR	CB-CA-C	5.78	121.33	110.63
1	5	457	TYR	CB-CA-C	5.78	121.33	110.63
1	V	292	ASN	CB-CA-C	5.78	120.67	110.85
1	q	292	ASN	CB-CA-C	5.78	120.67	110.85
1	5	292	ASN	CB-CA-C	5.78	120.67	110.85
1	A	468	PRO	N-CA-C	5.77	120.14	111.14
1	C	468	PRO	N-CA-C	5.77	120.14	111.14
1	K	468	PRO	N-CA-C	5.77	120.14	111.14
1	R	468	PRO	N-CA-C	5.77	120.14	111.14
1	T	468	PRO	N-CA-C	5.77	120.14	111.14
1	b	468	PRO	N-CA-C	5.77	120.14	111.14
1	e	468	PRO	N-CA-C	5.77	120.14	111.14
1	g	468	PRO	N-CA-C	5.77	120.14	111.14
1	o	468	PRO	N-CA-C	5.77	120.14	111.14
1	v	468	PRO	N-CA-C	5.77	120.14	111.14
1	x	468	PRO	N-CA-C	5.77	120.14	111.14
1	6	468	PRO	N-CA-C	5.77	120.14	111.14
1	D	468	PRO	N-CA-C	5.77	120.14	111.14
1	L	468	PRO	N-CA-C	5.77	120.14	111.14
1	S	468	PRO	N-CA-C	5.77	120.14	111.14
1	U	468	PRO	N-CA-C	5.77	120.14	111.14
1	Z	468	PRO	N-CA-C	5.77	120.14	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	468	PRO	N-CA-C	5.77	120.14	111.14
1	h	468	PRO	N-CA-C	5.77	120.14	111.14
1	p	468	PRO	N-CA-C	5.77	120.14	111.14
1	w	468	PRO	N-CA-C	5.77	120.14	111.14
1	y	468	PRO	N-CA-C	5.77	120.14	111.14
1	4	468	PRO	N-CA-C	5.77	120.14	111.14
1	7	468	PRO	N-CA-C	5.77	120.14	111.14
1	B	468	PRO	N-CA-C	5.76	120.13	111.14
1	H	468	PRO	N-CA-C	5.76	120.13	111.14
1	I	468	PRO	N-CA-C	5.76	120.13	111.14
1	J	468	PRO	N-CA-C	5.76	120.13	111.14
1	M	468	PRO	N-CA-C	5.76	120.13	111.14
1	Q	468	PRO	N-CA-C	5.76	120.13	111.14
1	V	468	PRO	N-CA-C	5.76	120.13	111.14
1	W	468	PRO	N-CA-C	5.76	120.13	111.14
1	X	468	PRO	N-CA-C	5.76	120.13	111.14
1	Y	468	PRO	N-CA-C	5.76	120.13	111.14
1	a	468	PRO	N-CA-C	5.76	120.13	111.14
1	d	468	PRO	N-CA-C	5.76	120.13	111.14
1	f	468	PRO	N-CA-C	5.76	120.13	111.14
1	l	468	PRO	N-CA-C	5.76	120.13	111.14
1	m	468	PRO	N-CA-C	5.76	120.13	111.14
1	n	468	PRO	N-CA-C	5.76	120.13	111.14
1	q	468	PRO	N-CA-C	5.76	120.13	111.14
1	u	468	PRO	N-CA-C	5.76	120.13	111.14
1	z	468	PRO	N-CA-C	5.76	120.13	111.14
1	1	468	PRO	N-CA-C	5.76	120.13	111.14
1	2	468	PRO	N-CA-C	5.76	120.13	111.14
1	3	468	PRO	N-CA-C	5.76	120.13	111.14
1	5	468	PRO	N-CA-C	5.76	120.13	111.14
1	8	468	PRO	N-CA-C	5.76	120.13	111.14
1	H	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	I	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	J	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	W	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	X	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	Y	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	l	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	m	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	n	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	1	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	2	273	PHE	CA-CB-CG	5.76	119.56	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	273	PHE	CA-CB-CG	5.76	119.56	113.80
1	O	468	PRO	N-CA-C	5.76	120.12	111.14
1	P	468	PRO	N-CA-C	5.76	120.12	111.14
1	j	468	PRO	N-CA-C	5.76	120.12	111.14
1	k	468	PRO	N-CA-C	5.76	120.12	111.14
1	r	468	PRO	N-CA-C	5.76	120.12	111.14
1	t	468	PRO	N-CA-C	5.76	120.12	111.14
1	B	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	M	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	Q	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	V	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	a	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	d	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	f	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	q	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	u	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	z	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	5	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	8	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	A	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	C	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	D	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	E	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	F	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	G	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	K	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	L	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	N	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	O	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	P	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	R	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	S	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	T	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	U	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	Z	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	b	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	c	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	e	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	g	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	h	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	i	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	j	273	PHE	CA-CB-CG	5.75	119.55	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	o	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	p	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	r	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	s	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	t	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	v	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	w	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	x	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	y	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	4	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	6	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	7	273	PHE	CA-CB-CG	5.75	119.55	113.80
1	B	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	M	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	Q	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	V	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	a	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	d	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	f	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	q	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	u	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	z	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	5	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	8	364	PRO	N-CA-CB	-5.75	98.00	103.34
1	H	379	PRO	N-CA-C	5.74	119.68	111.13
1	I	379	PRO	N-CA-C	5.74	119.68	111.13
1	J	379	PRO	N-CA-C	5.74	119.68	111.13
1	W	379	PRO	N-CA-C	5.74	119.68	111.13
1	X	379	PRO	N-CA-C	5.74	119.68	111.13
1	Y	379	PRO	N-CA-C	5.74	119.68	111.13
1	l	379	PRO	N-CA-C	5.74	119.68	111.13
1	m	379	PRO	N-CA-C	5.74	119.68	111.13
1	n	379	PRO	N-CA-C	5.74	119.68	111.13
1	1	379	PRO	N-CA-C	5.74	119.68	111.13
1	2	379	PRO	N-CA-C	5.74	119.68	111.13
1	3	379	PRO	N-CA-C	5.74	119.68	111.13
1	E	379	PRO	N-CA-C	5.73	119.67	111.13
1	F	379	PRO	N-CA-C	5.73	119.67	111.13
1	G	379	PRO	N-CA-C	5.73	119.67	111.13
1	N	379	PRO	N-CA-C	5.73	119.67	111.13
1	O	379	PRO	N-CA-C	5.73	119.67	111.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	379	PRO	N-CA-C	5.73	119.67	111.13
1	i	379	PRO	N-CA-C	5.73	119.67	111.13
1	j	379	PRO	N-CA-C	5.73	119.67	111.13
1	k	379	PRO	N-CA-C	5.73	119.67	111.13
1	r	379	PRO	N-CA-C	5.73	119.67	111.13
1	s	379	PRO	N-CA-C	5.73	119.67	111.13
1	t	379	PRO	N-CA-C	5.73	119.67	111.13
1	A	379	PRO	N-CA-C	5.72	119.66	111.13
1	C	379	PRO	N-CA-C	5.72	119.66	111.13
1	D	379	PRO	N-CA-C	5.72	119.66	111.13
1	K	379	PRO	N-CA-C	5.72	119.66	111.13
1	L	379	PRO	N-CA-C	5.72	119.66	111.13
1	R	379	PRO	N-CA-C	5.72	119.66	111.13
1	S	379	PRO	N-CA-C	5.72	119.66	111.13
1	T	379	PRO	N-CA-C	5.72	119.66	111.13
1	U	379	PRO	N-CA-C	5.72	119.66	111.13
1	Z	379	PRO	N-CA-C	5.72	119.66	111.13
1	b	379	PRO	N-CA-C	5.72	119.66	111.13
1	c	379	PRO	N-CA-C	5.72	119.66	111.13
1	e	379	PRO	N-CA-C	5.72	119.66	111.13
1	g	379	PRO	N-CA-C	5.72	119.66	111.13
1	h	379	PRO	N-CA-C	5.72	119.66	111.13
1	o	379	PRO	N-CA-C	5.72	119.66	111.13
1	p	379	PRO	N-CA-C	5.72	119.66	111.13
1	v	379	PRO	N-CA-C	5.72	119.66	111.13
1	w	379	PRO	N-CA-C	5.72	119.66	111.13
1	x	379	PRO	N-CA-C	5.72	119.66	111.13
1	y	379	PRO	N-CA-C	5.72	119.66	111.13
1	4	379	PRO	N-CA-C	5.72	119.66	111.13
1	6	379	PRO	N-CA-C	5.72	119.66	111.13
1	7	379	PRO	N-CA-C	5.72	119.66	111.13
1	B	379	PRO	N-CA-C	5.71	119.64	111.13
1	M	379	PRO	N-CA-C	5.71	119.64	111.13
1	Q	379	PRO	N-CA-C	5.71	119.64	111.13
1	V	379	PRO	N-CA-C	5.71	119.64	111.13
1	a	379	PRO	N-CA-C	5.71	119.64	111.13
1	d	379	PRO	N-CA-C	5.71	119.64	111.13
1	f	379	PRO	N-CA-C	5.71	119.64	111.13
1	q	379	PRO	N-CA-C	5.71	119.64	111.13
1	u	379	PRO	N-CA-C	5.71	119.64	111.13
1	z	379	PRO	N-CA-C	5.71	119.64	111.13
1	5	379	PRO	N-CA-C	5.71	119.64	111.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	379	PRO	N-CA-C	5.71	119.64	111.13
1	E	517	GLY	N-CA-C	-5.68	99.81	110.77
1	F	517	GLY	N-CA-C	-5.68	99.81	110.77
1	G	517	GLY	N-CA-C	-5.68	99.81	110.77
1	N	517	GLY	N-CA-C	-5.68	99.81	110.77
1	O	517	GLY	N-CA-C	-5.68	99.81	110.77
1	P	517	GLY	N-CA-C	-5.68	99.81	110.77
1	i	517	GLY	N-CA-C	-5.68	99.81	110.77
1	j	517	GLY	N-CA-C	-5.68	99.81	110.77
1	k	517	GLY	N-CA-C	-5.68	99.81	110.77
1	r	517	GLY	N-CA-C	-5.68	99.81	110.77
1	s	517	GLY	N-CA-C	-5.68	99.81	110.77
1	t	517	GLY	N-CA-C	-5.68	99.81	110.77
1	A	517	GLY	N-CA-C	-5.67	99.82	110.77
1	C	517	GLY	N-CA-C	-5.67	99.82	110.77
1	H	517	GLY	N-CA-C	-5.67	99.82	110.77
1	I	517	GLY	N-CA-C	-5.67	99.82	110.77
1	J	517	GLY	N-CA-C	-5.67	99.82	110.77
1	K	517	GLY	N-CA-C	-5.67	99.82	110.77
1	R	517	GLY	N-CA-C	-5.67	99.82	110.77
1	T	517	GLY	N-CA-C	-5.67	99.82	110.77
1	W	517	GLY	N-CA-C	-5.67	99.82	110.77
1	X	517	GLY	N-CA-C	-5.67	99.82	110.77
1	Y	517	GLY	N-CA-C	-5.67	99.82	110.77
1	b	517	GLY	N-CA-C	-5.67	99.82	110.77
1	e	517	GLY	N-CA-C	-5.67	99.82	110.77
1	g	517	GLY	N-CA-C	-5.67	99.82	110.77
1	l	517	GLY	N-CA-C	-5.67	99.82	110.77
1	m	517	GLY	N-CA-C	-5.67	99.82	110.77
1	n	517	GLY	N-CA-C	-5.67	99.82	110.77
1	o	517	GLY	N-CA-C	-5.67	99.82	110.77
1	v	517	GLY	N-CA-C	-5.67	99.82	110.77
1	x	517	GLY	N-CA-C	-5.67	99.82	110.77
1	1	517	GLY	N-CA-C	-5.67	99.82	110.77
1	2	517	GLY	N-CA-C	-5.67	99.82	110.77
1	3	517	GLY	N-CA-C	-5.67	99.82	110.77
1	6	517	GLY	N-CA-C	-5.67	99.82	110.77
1	B	517	GLY	N-CA-C	-5.67	99.83	110.77
1	M	517	GLY	N-CA-C	-5.67	99.83	110.77
1	Q	517	GLY	N-CA-C	-5.67	99.83	110.77
1	V	517	GLY	N-CA-C	-5.67	99.83	110.77
1	a	517	GLY	N-CA-C	-5.67	99.83	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	517	GLY	N-CA-C	-5.67	99.83	110.77
1	f	517	GLY	N-CA-C	-5.67	99.83	110.77
1	q	517	GLY	N-CA-C	-5.67	99.83	110.77
1	u	517	GLY	N-CA-C	-5.67	99.83	110.77
1	z	517	GLY	N-CA-C	-5.67	99.83	110.77
1	5	517	GLY	N-CA-C	-5.67	99.83	110.77
1	8	517	GLY	N-CA-C	-5.67	99.83	110.77
1	D	517	GLY	N-CA-C	-5.67	99.83	110.77
1	L	517	GLY	N-CA-C	-5.67	99.83	110.77
1	S	517	GLY	N-CA-C	-5.67	99.83	110.77
1	U	517	GLY	N-CA-C	-5.67	99.83	110.77
1	Z	517	GLY	N-CA-C	-5.67	99.83	110.77
1	c	517	GLY	N-CA-C	-5.67	99.83	110.77
1	h	517	GLY	N-CA-C	-5.67	99.83	110.77
1	p	517	GLY	N-CA-C	-5.67	99.83	110.77
1	w	517	GLY	N-CA-C	-5.67	99.83	110.77
1	y	517	GLY	N-CA-C	-5.67	99.83	110.77
1	4	517	GLY	N-CA-C	-5.67	99.83	110.77
1	7	517	GLY	N-CA-C	-5.67	99.83	110.77
1	B	632	PRO	N-CA-C	5.62	117.56	110.70
1	M	632	PRO	N-CA-C	5.62	117.56	110.70
1	Q	632	PRO	N-CA-C	5.62	117.56	110.70
1	V	632	PRO	N-CA-C	5.62	117.56	110.70
1	a	632	PRO	N-CA-C	5.62	117.56	110.70
1	d	632	PRO	N-CA-C	5.62	117.56	110.70
1	f	632	PRO	N-CA-C	5.62	117.56	110.70
1	q	632	PRO	N-CA-C	5.62	117.56	110.70
1	u	632	PRO	N-CA-C	5.62	117.56	110.70
1	z	632	PRO	N-CA-C	5.62	117.56	110.70
1	5	632	PRO	N-CA-C	5.62	117.56	110.70
1	8	632	PRO	N-CA-C	5.62	117.56	110.70
1	H	632	PRO	N-CA-C	5.62	117.56	110.70
1	I	632	PRO	N-CA-C	5.62	117.56	110.70
1	J	632	PRO	N-CA-C	5.62	117.56	110.70
1	W	632	PRO	N-CA-C	5.62	117.56	110.70
1	X	632	PRO	N-CA-C	5.62	117.56	110.70
1	Y	632	PRO	N-CA-C	5.62	117.56	110.70
1	l	632	PRO	N-CA-C	5.62	117.56	110.70
1	m	632	PRO	N-CA-C	5.62	117.56	110.70
1	n	632	PRO	N-CA-C	5.62	117.56	110.70
1	1	632	PRO	N-CA-C	5.62	117.56	110.70
1	2	632	PRO	N-CA-C	5.62	117.56	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	632	PRO	N-CA-C	5.62	117.56	110.70
1	A	290	LEU	N-CA-C	5.62	117.48	111.36
1	C	290	LEU	N-CA-C	5.62	117.48	111.36
1	K	290	LEU	N-CA-C	5.62	117.48	111.36
1	R	290	LEU	N-CA-C	5.62	117.48	111.36
1	T	290	LEU	N-CA-C	5.62	117.48	111.36
1	b	290	LEU	N-CA-C	5.62	117.48	111.36
1	e	290	LEU	N-CA-C	5.62	117.48	111.36
1	g	290	LEU	N-CA-C	5.62	117.48	111.36
1	o	290	LEU	N-CA-C	5.62	117.48	111.36
1	v	290	LEU	N-CA-C	5.62	117.48	111.36
1	x	290	LEU	N-CA-C	5.62	117.48	111.36
1	6	290	LEU	N-CA-C	5.62	117.48	111.36
1	D	290	LEU	N-CA-C	5.62	117.48	111.36
1	L	290	LEU	N-CA-C	5.62	117.48	111.36
1	S	290	LEU	N-CA-C	5.62	117.48	111.36
1	U	290	LEU	N-CA-C	5.62	117.48	111.36
1	Z	290	LEU	N-CA-C	5.62	117.48	111.36
1	c	290	LEU	N-CA-C	5.62	117.48	111.36
1	h	290	LEU	N-CA-C	5.62	117.48	111.36
1	p	290	LEU	N-CA-C	5.62	117.48	111.36
1	w	290	LEU	N-CA-C	5.62	117.48	111.36
1	y	290	LEU	N-CA-C	5.62	117.48	111.36
1	4	290	LEU	N-CA-C	5.62	117.48	111.36
1	7	290	LEU	N-CA-C	5.62	117.48	111.36
1	A	632	PRO	N-CA-C	5.62	117.55	110.70
1	C	632	PRO	N-CA-C	5.62	117.55	110.70
1	D	632	PRO	N-CA-C	5.62	117.55	110.70
1	K	632	PRO	N-CA-C	5.62	117.55	110.70
1	L	632	PRO	N-CA-C	5.62	117.55	110.70
1	R	632	PRO	N-CA-C	5.62	117.55	110.70
1	S	632	PRO	N-CA-C	5.62	117.55	110.70
1	T	632	PRO	N-CA-C	5.62	117.55	110.70
1	U	632	PRO	N-CA-C	5.62	117.55	110.70
1	Z	632	PRO	N-CA-C	5.62	117.55	110.70
1	b	632	PRO	N-CA-C	5.62	117.55	110.70
1	c	632	PRO	N-CA-C	5.62	117.55	110.70
1	e	632	PRO	N-CA-C	5.62	117.55	110.70
1	g	632	PRO	N-CA-C	5.62	117.55	110.70
1	h	632	PRO	N-CA-C	5.62	117.55	110.70
1	o	632	PRO	N-CA-C	5.62	117.55	110.70
1	p	632	PRO	N-CA-C	5.62	117.55	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	632	PRO	N-CA-C	5.62	117.55	110.70
1	w	632	PRO	N-CA-C	5.62	117.55	110.70
1	x	632	PRO	N-CA-C	5.62	117.55	110.70
1	y	632	PRO	N-CA-C	5.62	117.55	110.70
1	4	632	PRO	N-CA-C	5.62	117.55	110.70
1	6	632	PRO	N-CA-C	5.62	117.55	110.70
1	7	632	PRO	N-CA-C	5.62	117.55	110.70
1	H	290	LEU	N-CA-C	5.61	117.47	111.36
1	I	290	LEU	N-CA-C	5.61	117.47	111.36
1	J	290	LEU	N-CA-C	5.61	117.47	111.36
1	W	290	LEU	N-CA-C	5.61	117.47	111.36
1	X	290	LEU	N-CA-C	5.61	117.47	111.36
1	Y	290	LEU	N-CA-C	5.61	117.47	111.36
1	l	290	LEU	N-CA-C	5.61	117.47	111.36
1	m	290	LEU	N-CA-C	5.61	117.47	111.36
1	n	290	LEU	N-CA-C	5.61	117.47	111.36
1	1	290	LEU	N-CA-C	5.61	117.47	111.36
1	2	290	LEU	N-CA-C	5.61	117.47	111.36
1	3	290	LEU	N-CA-C	5.61	117.47	111.36
1	E	632	PRO	N-CA-C	5.61	117.54	110.70
1	F	632	PRO	N-CA-C	5.61	117.54	110.70
1	G	632	PRO	N-CA-C	5.61	117.54	110.70
1	N	632	PRO	N-CA-C	5.61	117.54	110.70
1	O	632	PRO	N-CA-C	5.61	117.54	110.70
1	P	632	PRO	N-CA-C	5.61	117.54	110.70
1	i	632	PRO	N-CA-C	5.61	117.54	110.70
1	j	632	PRO	N-CA-C	5.61	117.54	110.70
1	k	632	PRO	N-CA-C	5.61	117.54	110.70
1	r	632	PRO	N-CA-C	5.61	117.54	110.70
1	s	632	PRO	N-CA-C	5.61	117.54	110.70
1	t	632	PRO	N-CA-C	5.61	117.54	110.70
1	E	290	LEU	N-CA-C	5.60	117.47	111.36
1	F	290	LEU	N-CA-C	5.60	117.47	111.36
1	G	290	LEU	N-CA-C	5.60	117.47	111.36
1	N	290	LEU	N-CA-C	5.60	117.47	111.36
1	O	290	LEU	N-CA-C	5.60	117.47	111.36
1	P	290	LEU	N-CA-C	5.60	117.47	111.36
1	i	290	LEU	N-CA-C	5.60	117.47	111.36
1	j	290	LEU	N-CA-C	5.60	117.47	111.36
1	k	290	LEU	N-CA-C	5.60	117.47	111.36
1	r	290	LEU	N-CA-C	5.60	117.47	111.36
1	s	290	LEU	N-CA-C	5.60	117.47	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	290	LEU	N-CA-C	5.60	117.47	111.36
1	B	290	LEU	N-CA-C	5.60	117.46	111.36
1	M	290	LEU	N-CA-C	5.60	117.46	111.36
1	Q	290	LEU	N-CA-C	5.60	117.46	111.36
1	V	290	LEU	N-CA-C	5.60	117.46	111.36
1	a	290	LEU	N-CA-C	5.60	117.46	111.36
1	d	290	LEU	N-CA-C	5.60	117.46	111.36
1	f	290	LEU	N-CA-C	5.60	117.46	111.36
1	q	290	LEU	N-CA-C	5.60	117.46	111.36
1	u	290	LEU	N-CA-C	5.60	117.46	111.36
1	z	290	LEU	N-CA-C	5.60	117.46	111.36
1	5	290	LEU	N-CA-C	5.60	117.46	111.36
1	8	290	LEU	N-CA-C	5.60	117.46	111.36
1	I	354	PRO	N-CA-C	5.58	120.25	111.38
1	Y	354	PRO	N-CA-C	5.58	120.25	111.38
1	n	354	PRO	N-CA-C	5.58	120.25	111.38
1	1	354	PRO	N-CA-C	5.58	120.25	111.38
1	2	354	PRO	N-CA-C	5.58	120.25	111.38
1	3	354	PRO	N-CA-C	5.58	120.25	111.38
1	B	354	PRO	N-CA-C	5.58	120.25	111.38
1	M	354	PRO	N-CA-C	5.58	120.25	111.38
1	Q	354	PRO	N-CA-C	5.58	120.25	111.38
1	V	354	PRO	N-CA-C	5.58	120.25	111.38
1	a	354	PRO	N-CA-C	5.58	120.25	111.38
1	d	354	PRO	N-CA-C	5.58	120.25	111.38
1	f	354	PRO	N-CA-C	5.58	120.25	111.38
1	q	354	PRO	N-CA-C	5.58	120.25	111.38
1	u	354	PRO	N-CA-C	5.58	120.25	111.38
1	z	354	PRO	N-CA-C	5.58	120.25	111.38
1	5	354	PRO	N-CA-C	5.58	120.25	111.38
1	8	354	PRO	N-CA-C	5.58	120.25	111.38
1	A	354	PRO	N-CA-C	5.57	120.24	111.38
1	C	354	PRO	N-CA-C	5.57	120.24	111.38
1	K	354	PRO	N-CA-C	5.57	120.24	111.38
1	N	354	PRO	N-CA-C	5.57	120.24	111.38
1	P	354	PRO	N-CA-C	5.57	120.24	111.38
1	R	354	PRO	N-CA-C	5.57	120.24	111.38
1	T	354	PRO	N-CA-C	5.57	120.24	111.38
1	b	354	PRO	N-CA-C	5.57	120.24	111.38
1	e	354	PRO	N-CA-C	5.57	120.24	111.38
1	g	354	PRO	N-CA-C	5.57	120.24	111.38
1	i	354	PRO	N-CA-C	5.57	120.24	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	354	PRO	N-CA-C	5.57	120.24	111.38
1	o	354	PRO	N-CA-C	5.57	120.24	111.38
1	r	354	PRO	N-CA-C	5.57	120.24	111.38
1	s	354	PRO	N-CA-C	5.57	120.24	111.38
1	v	354	PRO	N-CA-C	5.57	120.24	111.38
1	x	354	PRO	N-CA-C	5.57	120.24	111.38
1	6	354	PRO	N-CA-C	5.57	120.24	111.38
1	E	354	PRO	N-CA-C	5.57	120.23	111.38
1	F	354	PRO	N-CA-C	5.57	120.23	111.38
1	G	354	PRO	N-CA-C	5.57	120.23	111.38
1	O	354	PRO	N-CA-C	5.57	120.23	111.38
1	j	354	PRO	N-CA-C	5.57	120.23	111.38
1	t	354	PRO	N-CA-C	5.57	120.23	111.38
1	H	354	PRO	N-CA-C	5.56	120.22	111.38
1	J	354	PRO	N-CA-C	5.56	120.22	111.38
1	W	354	PRO	N-CA-C	5.56	120.22	111.38
1	X	354	PRO	N-CA-C	5.56	120.22	111.38
1	l	354	PRO	N-CA-C	5.56	120.22	111.38
1	m	354	PRO	N-CA-C	5.56	120.22	111.38
1	B	565	VAL	CA-C-N	5.55	126.14	119.98
1	B	565	VAL	C-N-CA	5.55	126.14	119.98
1	H	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	I	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	J	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	M	565	VAL	CA-C-N	5.55	126.14	119.98
1	M	565	VAL	C-N-CA	5.55	126.14	119.98
1	Q	565	VAL	CA-C-N	5.55	126.14	119.98
1	Q	565	VAL	C-N-CA	5.55	126.14	119.98
1	W	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	X	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	Y	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	a	565	VAL	CA-C-N	5.55	126.14	119.98
1	a	565	VAL	C-N-CA	5.55	126.14	119.98
1	d	565	VAL	CA-C-N	5.55	126.14	119.98
1	d	565	VAL	C-N-CA	5.55	126.14	119.98
1	f	565	VAL	CA-C-N	5.55	126.14	119.98
1	f	565	VAL	C-N-CA	5.55	126.14	119.98
1	l	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	m	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	n	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	1	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	2	439	VAL	N-CA-CB	-5.55	104.63	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	439	VAL	N-CA-CB	-5.55	104.63	112.12
1	H	565	VAL	CA-C-N	5.54	126.13	119.98
1	H	565	VAL	C-N-CA	5.54	126.13	119.98
1	I	565	VAL	CA-C-N	5.54	126.13	119.98
1	I	565	VAL	C-N-CA	5.54	126.13	119.98
1	J	565	VAL	CA-C-N	5.54	126.13	119.98
1	J	565	VAL	C-N-CA	5.54	126.13	119.98
1	W	565	VAL	CA-C-N	5.54	126.13	119.98
1	W	565	VAL	C-N-CA	5.54	126.13	119.98
1	X	565	VAL	CA-C-N	5.54	126.13	119.98
1	X	565	VAL	C-N-CA	5.54	126.13	119.98
1	Y	565	VAL	CA-C-N	5.54	126.13	119.98
1	Y	565	VAL	C-N-CA	5.54	126.13	119.98
1	l	565	VAL	CA-C-N	5.54	126.13	119.98
1	l	565	VAL	C-N-CA	5.54	126.13	119.98
1	m	565	VAL	CA-C-N	5.54	126.13	119.98
1	m	565	VAL	C-N-CA	5.54	126.13	119.98
1	n	565	VAL	CA-C-N	5.54	126.13	119.98
1	n	565	VAL	C-N-CA	5.54	126.13	119.98
1	1	565	VAL	CA-C-N	5.54	126.13	119.98
1	1	565	VAL	C-N-CA	5.54	126.13	119.98
1	2	565	VAL	CA-C-N	5.54	126.13	119.98
1	2	565	VAL	C-N-CA	5.54	126.13	119.98
1	3	565	VAL	CA-C-N	5.54	126.13	119.98
1	3	565	VAL	C-N-CA	5.54	126.13	119.98
1	A	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	C	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	D	354	PRO	N-CA-C	5.54	120.19	111.38
1	K	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	L	354	PRO	N-CA-C	5.54	120.19	111.38
1	R	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	S	354	PRO	N-CA-C	5.54	120.19	111.38
1	T	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	U	354	PRO	N-CA-C	5.54	120.19	111.38
1	Z	354	PRO	N-CA-C	5.54	120.19	111.38
1	b	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	c	354	PRO	N-CA-C	5.54	120.19	111.38
1	e	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	g	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	h	354	PRO	N-CA-C	5.54	120.19	111.38
1	o	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	p	354	PRO	N-CA-C	5.54	120.19	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	w	354	PRO	N-CA-C	5.54	120.19	111.38
1	x	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	y	354	PRO	N-CA-C	5.54	120.19	111.38
1	4	354	PRO	N-CA-C	5.54	120.19	111.38
1	6	439	VAL	N-CA-CB	-5.54	104.64	112.12
1	7	354	PRO	N-CA-C	5.54	120.19	111.38
1	D	565	VAL	CA-C-N	5.54	126.13	119.98
1	D	565	VAL	C-N-CA	5.54	126.13	119.98
1	L	565	VAL	CA-C-N	5.54	126.13	119.98
1	L	565	VAL	C-N-CA	5.54	126.13	119.98
1	S	565	VAL	CA-C-N	5.54	126.13	119.98
1	S	565	VAL	C-N-CA	5.54	126.13	119.98
1	U	565	VAL	CA-C-N	5.54	126.13	119.98
1	U	565	VAL	C-N-CA	5.54	126.13	119.98
1	Z	565	VAL	CA-C-N	5.54	126.13	119.98
1	Z	565	VAL	C-N-CA	5.54	126.13	119.98
1	c	565	VAL	CA-C-N	5.54	126.13	119.98
1	c	565	VAL	C-N-CA	5.54	126.13	119.98
1	h	565	VAL	CA-C-N	5.54	126.13	119.98
1	h	565	VAL	C-N-CA	5.54	126.13	119.98
1	p	565	VAL	CA-C-N	5.54	126.13	119.98
1	p	565	VAL	C-N-CA	5.54	126.13	119.98
1	w	565	VAL	CA-C-N	5.54	126.13	119.98
1	w	565	VAL	C-N-CA	5.54	126.13	119.98
1	y	565	VAL	CA-C-N	5.54	126.13	119.98
1	y	565	VAL	C-N-CA	5.54	126.13	119.98
1	4	565	VAL	CA-C-N	5.54	126.13	119.98
1	4	565	VAL	C-N-CA	5.54	126.13	119.98
1	7	565	VAL	CA-C-N	5.54	126.13	119.98
1	7	565	VAL	C-N-CA	5.54	126.13	119.98
1	D	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	E	565	VAL	CA-C-N	5.54	126.12	119.98
1	E	565	VAL	C-N-CA	5.54	126.12	119.98
1	F	565	VAL	CA-C-N	5.54	126.12	119.98
1	F	565	VAL	C-N-CA	5.54	126.12	119.98
1	G	565	VAL	CA-C-N	5.54	126.12	119.98
1	G	565	VAL	C-N-CA	5.54	126.12	119.98
1	L	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	N	565	VAL	CA-C-N	5.54	126.12	119.98
1	N	565	VAL	C-N-CA	5.54	126.12	119.98
1	O	565	VAL	CA-C-N	5.54	126.12	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	565	VAL	C-N-CA	5.54	126.12	119.98
1	P	565	VAL	CA-C-N	5.54	126.12	119.98
1	P	565	VAL	C-N-CA	5.54	126.12	119.98
1	S	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	U	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	V	565	VAL	CA-C-N	5.54	126.12	119.98
1	V	565	VAL	C-N-CA	5.54	126.12	119.98
1	Z	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	c	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	h	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	i	565	VAL	CA-C-N	5.54	126.12	119.98
1	i	565	VAL	C-N-CA	5.54	126.12	119.98
1	j	565	VAL	CA-C-N	5.54	126.12	119.98
1	j	565	VAL	C-N-CA	5.54	126.12	119.98
1	k	565	VAL	CA-C-N	5.54	126.12	119.98
1	k	565	VAL	C-N-CA	5.54	126.12	119.98
1	p	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	q	565	VAL	CA-C-N	5.54	126.12	119.98
1	q	565	VAL	C-N-CA	5.54	126.12	119.98
1	r	565	VAL	CA-C-N	5.54	126.12	119.98
1	r	565	VAL	C-N-CA	5.54	126.12	119.98
1	s	565	VAL	CA-C-N	5.54	126.12	119.98
1	s	565	VAL	C-N-CA	5.54	126.12	119.98
1	t	565	VAL	CA-C-N	5.54	126.12	119.98
1	t	565	VAL	C-N-CA	5.54	126.12	119.98
1	u	565	VAL	CA-C-N	5.54	126.12	119.98
1	u	565	VAL	C-N-CA	5.54	126.12	119.98
1	w	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	y	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	z	565	VAL	CA-C-N	5.54	126.12	119.98
1	z	565	VAL	C-N-CA	5.54	126.12	119.98
1	4	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	5	565	VAL	CA-C-N	5.54	126.12	119.98
1	5	565	VAL	C-N-CA	5.54	126.12	119.98
1	7	439	VAL	N-CA-CB	-5.54	104.65	112.12
1	8	565	VAL	CA-C-N	5.54	126.12	119.98
1	8	565	VAL	C-N-CA	5.54	126.12	119.98
1	E	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	F	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	G	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	N	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	O	439	VAL	N-CA-CB	-5.52	104.66	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	i	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	j	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	k	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	r	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	s	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	t	439	VAL	N-CA-CB	-5.52	104.66	112.12
1	A	565	VAL	CA-C-N	5.52	126.10	119.98
1	A	565	VAL	C-N-CA	5.52	126.10	119.98
1	C	565	VAL	CA-C-N	5.52	126.10	119.98
1	C	565	VAL	C-N-CA	5.52	126.10	119.98
1	K	565	VAL	CA-C-N	5.52	126.10	119.98
1	K	565	VAL	C-N-CA	5.52	126.10	119.98
1	R	565	VAL	CA-C-N	5.52	126.10	119.98
1	R	565	VAL	C-N-CA	5.52	126.10	119.98
1	T	565	VAL	CA-C-N	5.52	126.10	119.98
1	T	565	VAL	C-N-CA	5.52	126.10	119.98
1	b	565	VAL	CA-C-N	5.52	126.10	119.98
1	b	565	VAL	C-N-CA	5.52	126.10	119.98
1	e	565	VAL	CA-C-N	5.52	126.10	119.98
1	e	565	VAL	C-N-CA	5.52	126.10	119.98
1	g	565	VAL	CA-C-N	5.52	126.10	119.98
1	g	565	VAL	C-N-CA	5.52	126.10	119.98
1	o	565	VAL	CA-C-N	5.52	126.10	119.98
1	o	565	VAL	C-N-CA	5.52	126.10	119.98
1	v	565	VAL	CA-C-N	5.52	126.10	119.98
1	v	565	VAL	C-N-CA	5.52	126.10	119.98
1	x	565	VAL	CA-C-N	5.52	126.10	119.98
1	x	565	VAL	C-N-CA	5.52	126.10	119.98
1	6	565	VAL	CA-C-N	5.52	126.10	119.98
1	6	565	VAL	C-N-CA	5.52	126.10	119.98
1	B	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	M	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	Q	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	V	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	a	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	d	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	f	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	q	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	u	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	z	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	5	439	VAL	N-CA-CB	-5.51	104.67	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	439	VAL	N-CA-CB	-5.51	104.67	112.12
1	H	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	I	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	J	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	W	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	X	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	Y	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	l	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	m	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	n	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	1	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	2	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	3	456	ARG	N-CA-CB	-5.51	103.81	110.53
1	A	214	ALA	CA-C-N	5.49	128.09	120.29
1	A	214	ALA	C-N-CA	5.49	128.09	120.29
1	C	214	ALA	CA-C-N	5.49	128.09	120.29
1	C	214	ALA	C-N-CA	5.49	128.09	120.29
1	K	214	ALA	CA-C-N	5.49	128.09	120.29
1	K	214	ALA	C-N-CA	5.49	128.09	120.29
1	R	214	ALA	CA-C-N	5.49	128.09	120.29
1	R	214	ALA	C-N-CA	5.49	128.09	120.29
1	T	214	ALA	CA-C-N	5.49	128.09	120.29
1	T	214	ALA	C-N-CA	5.49	128.09	120.29
1	b	214	ALA	CA-C-N	5.49	128.09	120.29
1	b	214	ALA	C-N-CA	5.49	128.09	120.29
1	e	214	ALA	CA-C-N	5.49	128.09	120.29
1	e	214	ALA	C-N-CA	5.49	128.09	120.29
1	g	214	ALA	CA-C-N	5.49	128.09	120.29
1	g	214	ALA	C-N-CA	5.49	128.09	120.29
1	o	214	ALA	CA-C-N	5.49	128.09	120.29
1	o	214	ALA	C-N-CA	5.49	128.09	120.29
1	v	214	ALA	CA-C-N	5.49	128.09	120.29
1	v	214	ALA	C-N-CA	5.49	128.09	120.29
1	x	214	ALA	CA-C-N	5.49	128.09	120.29
1	x	214	ALA	C-N-CA	5.49	128.09	120.29
1	6	214	ALA	CA-C-N	5.49	128.09	120.29
1	6	214	ALA	C-N-CA	5.49	128.09	120.29
1	B	481	VAL	N-CA-CB	5.49	120.29	111.23
1	M	481	VAL	N-CA-CB	5.49	120.29	111.23
1	Q	481	VAL	N-CA-CB	5.49	120.29	111.23
1	V	481	VAL	N-CA-CB	5.49	120.29	111.23
1	a	481	VAL	N-CA-CB	5.49	120.29	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	481	VAL	N-CA-CB	5.49	120.29	111.23
1	f	481	VAL	N-CA-CB	5.49	120.29	111.23
1	q	481	VAL	N-CA-CB	5.49	120.29	111.23
1	u	481	VAL	N-CA-CB	5.49	120.29	111.23
1	z	481	VAL	N-CA-CB	5.49	120.29	111.23
1	5	481	VAL	N-CA-CB	5.49	120.29	111.23
1	8	481	VAL	N-CA-CB	5.49	120.29	111.23
1	A	481	VAL	N-CA-CB	5.48	120.28	111.23
1	C	481	VAL	N-CA-CB	5.48	120.28	111.23
1	H	214	ALA	CA-C-N	5.48	128.07	120.29
1	H	214	ALA	C-N-CA	5.48	128.07	120.29
1	H	481	VAL	N-CA-CB	5.48	120.28	111.23
1	I	214	ALA	CA-C-N	5.48	128.07	120.29
1	I	214	ALA	C-N-CA	5.48	128.07	120.29
1	I	481	VAL	N-CA-CB	5.48	120.28	111.23
1	J	214	ALA	CA-C-N	5.48	128.07	120.29
1	J	214	ALA	C-N-CA	5.48	128.07	120.29
1	J	481	VAL	N-CA-CB	5.48	120.28	111.23
1	K	481	VAL	N-CA-CB	5.48	120.28	111.23
1	R	481	VAL	N-CA-CB	5.48	120.28	111.23
1	T	481	VAL	N-CA-CB	5.48	120.28	111.23
1	W	214	ALA	CA-C-N	5.48	128.07	120.29
1	W	214	ALA	C-N-CA	5.48	128.07	120.29
1	W	481	VAL	N-CA-CB	5.48	120.28	111.23
1	X	214	ALA	CA-C-N	5.48	128.07	120.29
1	X	214	ALA	C-N-CA	5.48	128.07	120.29
1	X	481	VAL	N-CA-CB	5.48	120.28	111.23
1	Y	214	ALA	CA-C-N	5.48	128.07	120.29
1	Y	214	ALA	C-N-CA	5.48	128.07	120.29
1	Y	481	VAL	N-CA-CB	5.48	120.28	111.23
1	b	481	VAL	N-CA-CB	5.48	120.28	111.23
1	e	481	VAL	N-CA-CB	5.48	120.28	111.23
1	g	481	VAL	N-CA-CB	5.48	120.28	111.23
1	l	214	ALA	CA-C-N	5.48	128.07	120.29
1	l	214	ALA	C-N-CA	5.48	128.07	120.29
1	l	481	VAL	N-CA-CB	5.48	120.28	111.23
1	m	214	ALA	CA-C-N	5.48	128.07	120.29
1	m	214	ALA	C-N-CA	5.48	128.07	120.29
1	m	481	VAL	N-CA-CB	5.48	120.28	111.23
1	n	214	ALA	CA-C-N	5.48	128.07	120.29
1	n	214	ALA	C-N-CA	5.48	128.07	120.29
1	n	481	VAL	N-CA-CB	5.48	120.28	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	481	VAL	N-CA-CB	5.48	120.28	111.23
1	v	481	VAL	N-CA-CB	5.48	120.28	111.23
1	x	481	VAL	N-CA-CB	5.48	120.28	111.23
1	1	214	ALA	CA-C-N	5.48	128.07	120.29
1	1	214	ALA	C-N-CA	5.48	128.07	120.29
1	1	481	VAL	N-CA-CB	5.48	120.28	111.23
1	2	214	ALA	CA-C-N	5.48	128.07	120.29
1	2	214	ALA	C-N-CA	5.48	128.07	120.29
1	2	481	VAL	N-CA-CB	5.48	120.28	111.23
1	3	214	ALA	CA-C-N	5.48	128.07	120.29
1	3	214	ALA	C-N-CA	5.48	128.07	120.29
1	3	481	VAL	N-CA-CB	5.48	120.28	111.23
1	6	481	VAL	N-CA-CB	5.48	120.28	111.23
1	B	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	D	481	VAL	N-CA-CB	5.48	120.27	111.23
1	L	481	VAL	N-CA-CB	5.48	120.27	111.23
1	M	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	Q	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	S	481	VAL	N-CA-CB	5.48	120.27	111.23
1	U	481	VAL	N-CA-CB	5.48	120.27	111.23
1	V	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	Z	481	VAL	N-CA-CB	5.48	120.27	111.23
1	a	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	c	481	VAL	N-CA-CB	5.48	120.27	111.23
1	d	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	f	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	h	481	VAL	N-CA-CB	5.48	120.27	111.23
1	p	481	VAL	N-CA-CB	5.48	120.27	111.23
1	q	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	u	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	w	481	VAL	N-CA-CB	5.48	120.27	111.23
1	y	481	VAL	N-CA-CB	5.48	120.27	111.23
1	z	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	4	481	VAL	N-CA-CB	5.48	120.27	111.23
1	5	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	7	481	VAL	N-CA-CB	5.48	120.27	111.23
1	8	456	ARG	N-CA-CB	-5.48	103.84	110.53
1	E	481	VAL	N-CA-CB	5.47	120.26	111.23
1	F	481	VAL	N-CA-CB	5.47	120.26	111.23
1	G	481	VAL	N-CA-CB	5.47	120.26	111.23
1	N	481	VAL	N-CA-CB	5.47	120.26	111.23
1	O	481	VAL	N-CA-CB	5.47	120.26	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	481	VAL	N-CA-CB	5.47	120.26	111.23
1	i	481	VAL	N-CA-CB	5.47	120.26	111.23
1	j	481	VAL	N-CA-CB	5.47	120.26	111.23
1	k	481	VAL	N-CA-CB	5.47	120.26	111.23
1	r	481	VAL	N-CA-CB	5.47	120.26	111.23
1	s	481	VAL	N-CA-CB	5.47	120.26	111.23
1	t	481	VAL	N-CA-CB	5.47	120.26	111.23
1	V	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	q	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	u	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	z	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	5	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	8	606	PRO	N-CA-CB	-5.47	98.25	103.34
1	V	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	q	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	u	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	z	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	5	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	8	428	ASN	CA-CB-CG	5.47	118.07	112.60
1	E	214	ALA	CA-C-N	5.46	128.05	120.29
1	E	214	ALA	C-N-CA	5.46	128.05	120.29
1	F	214	ALA	CA-C-N	5.46	128.05	120.29
1	F	214	ALA	C-N-CA	5.46	128.05	120.29
1	G	214	ALA	CA-C-N	5.46	128.05	120.29
1	G	214	ALA	C-N-CA	5.46	128.05	120.29
1	H	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	I	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	J	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	N	214	ALA	CA-C-N	5.46	128.05	120.29
1	N	214	ALA	C-N-CA	5.46	128.05	120.29
1	O	214	ALA	CA-C-N	5.46	128.05	120.29
1	O	214	ALA	C-N-CA	5.46	128.05	120.29
1	P	214	ALA	CA-C-N	5.46	128.05	120.29
1	P	214	ALA	C-N-CA	5.46	128.05	120.29
1	W	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	X	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	Y	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	i	214	ALA	CA-C-N	5.46	128.05	120.29
1	i	214	ALA	C-N-CA	5.46	128.05	120.29
1	j	214	ALA	CA-C-N	5.46	128.05	120.29
1	j	214	ALA	C-N-CA	5.46	128.05	120.29
1	k	214	ALA	CA-C-N	5.46	128.05	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	214	ALA	C-N-CA	5.46	128.05	120.29
1	l	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	m	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	n	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	r	214	ALA	CA-C-N	5.46	128.05	120.29
1	r	214	ALA	C-N-CA	5.46	128.05	120.29
1	s	214	ALA	CA-C-N	5.46	128.05	120.29
1	s	214	ALA	C-N-CA	5.46	128.05	120.29
1	t	214	ALA	CA-C-N	5.46	128.05	120.29
1	t	214	ALA	C-N-CA	5.46	128.05	120.29
1	1	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	2	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	3	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	D	214	ALA	CA-C-N	5.46	128.05	120.29
1	D	214	ALA	C-N-CA	5.46	128.05	120.29
1	E	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	F	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	G	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	L	214	ALA	CA-C-N	5.46	128.05	120.29
1	L	214	ALA	C-N-CA	5.46	128.05	120.29
1	N	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	O	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	P	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	S	214	ALA	CA-C-N	5.46	128.05	120.29
1	S	214	ALA	C-N-CA	5.46	128.05	120.29
1	U	214	ALA	CA-C-N	5.46	128.05	120.29
1	U	214	ALA	C-N-CA	5.46	128.05	120.29
1	Z	214	ALA	CA-C-N	5.46	128.05	120.29
1	Z	214	ALA	C-N-CA	5.46	128.05	120.29
1	c	214	ALA	CA-C-N	5.46	128.05	120.29
1	c	214	ALA	C-N-CA	5.46	128.05	120.29
1	h	214	ALA	CA-C-N	5.46	128.05	120.29
1	h	214	ALA	C-N-CA	5.46	128.05	120.29
1	i	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	j	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	k	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	p	214	ALA	CA-C-N	5.46	128.05	120.29
1	p	214	ALA	C-N-CA	5.46	128.05	120.29
1	r	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	s	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	t	456	ARG	N-CA-CB	-5.46	103.86	110.53
1	w	214	ALA	CA-C-N	5.46	128.05	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	214	ALA	C-N-CA	5.46	128.05	120.29
1	y	214	ALA	CA-C-N	5.46	128.05	120.29
1	y	214	ALA	C-N-CA	5.46	128.05	120.29
1	4	214	ALA	CA-C-N	5.46	128.05	120.29
1	4	214	ALA	C-N-CA	5.46	128.05	120.29
1	7	214	ALA	CA-C-N	5.46	128.05	120.29
1	7	214	ALA	C-N-CA	5.46	128.05	120.29
1	A	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	A	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	B	214	ALA	CA-C-N	5.46	128.04	120.29
1	B	214	ALA	C-N-CA	5.46	128.04	120.29
1	C	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	C	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	K	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	K	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	M	214	ALA	CA-C-N	5.46	128.04	120.29
1	M	214	ALA	C-N-CA	5.46	128.04	120.29
1	Q	214	ALA	CA-C-N	5.46	128.04	120.29
1	Q	214	ALA	C-N-CA	5.46	128.04	120.29
1	R	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	R	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	T	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	T	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	V	214	ALA	CA-C-N	5.46	128.04	120.29
1	V	214	ALA	C-N-CA	5.46	128.04	120.29
1	a	214	ALA	CA-C-N	5.46	128.04	120.29
1	a	214	ALA	C-N-CA	5.46	128.04	120.29
1	b	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	b	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	d	214	ALA	CA-C-N	5.46	128.04	120.29
1	d	214	ALA	C-N-CA	5.46	128.04	120.29
1	e	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	e	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	f	214	ALA	CA-C-N	5.46	128.04	120.29
1	f	214	ALA	C-N-CA	5.46	128.04	120.29
1	g	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	g	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	o	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	o	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	q	214	ALA	CA-C-N	5.46	128.04	120.29
1	q	214	ALA	C-N-CA	5.46	128.04	120.29
1	u	214	ALA	CA-C-N	5.46	128.04	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	214	ALA	C-N-CA	5.46	128.04	120.29
1	v	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	v	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	x	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	x	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	z	214	ALA	CA-C-N	5.46	128.04	120.29
1	z	214	ALA	C-N-CA	5.46	128.04	120.29
1	5	214	ALA	CA-C-N	5.46	128.04	120.29
1	5	214	ALA	C-N-CA	5.46	128.04	120.29
1	6	428	ASN	CA-CB-CG	5.46	118.06	112.60
1	6	456	ARG	N-CA-CB	-5.46	103.87	110.53
1	8	214	ALA	CA-C-N	5.46	128.04	120.29
1	8	214	ALA	C-N-CA	5.46	128.04	120.29
1	D	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	L	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	S	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	U	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	Z	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	c	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	h	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	p	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	w	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	y	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	4	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	7	428	ASN	CA-CB-CG	5.45	118.05	112.60
1	D	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	L	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	S	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	U	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	Z	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	c	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	h	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	p	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	w	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	y	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	4	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	7	456	ARG	N-CA-CB	-5.44	103.89	110.53
1	E	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	F	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	G	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	N	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	O	606	PRO	N-CA-CB	-5.44	98.28	103.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	i	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	j	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	k	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	r	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	s	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	t	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	E	430	LEU	N-CA-C	5.44	117.29	111.36
1	F	430	LEU	N-CA-C	5.44	117.29	111.36
1	G	430	LEU	N-CA-C	5.44	117.29	111.36
1	H	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	I	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	J	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	P	430	LEU	N-CA-C	5.44	117.29	111.36
1	W	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	X	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	Y	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	k	430	LEU	N-CA-C	5.44	117.29	111.36
1	l	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	m	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	n	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	r	430	LEU	N-CA-C	5.44	117.29	111.36
1	1	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	2	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	3	606	PRO	N-CA-CB	-5.44	98.28	103.34
1	A	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	B	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	B	430	LEU	N-CA-C	5.43	117.28	111.36
1	B	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	C	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	D	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	H	700	ASP	CA-C-O	-5.43	115.64	121.56
1	I	700	ASP	CA-C-O	-5.43	115.64	121.56
1	J	700	ASP	CA-C-O	-5.43	115.64	121.56
1	K	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	L	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	M	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	M	430	LEU	N-CA-C	5.43	117.28	111.36
1	M	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	Q	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	Q	430	LEU	N-CA-C	5.43	117.28	111.36
1	Q	606	PRO	N-CA-CB	-5.43	98.29	103.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	S	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	T	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	U	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	V	430	LEU	N-CA-C	5.43	117.28	111.36
1	W	700	ASP	CA-C-O	-5.43	115.64	121.56
1	X	700	ASP	CA-C-O	-5.43	115.64	121.56
1	Y	700	ASP	CA-C-O	-5.43	115.64	121.56
1	Z	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	a	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	a	430	LEU	N-CA-C	5.43	117.28	111.36
1	a	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	b	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	c	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	d	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	d	430	LEU	N-CA-C	5.43	117.28	111.36
1	d	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	e	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	f	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	f	430	LEU	N-CA-C	5.43	117.28	111.36
1	f	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	g	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	h	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	l	700	ASP	CA-C-O	-5.43	115.64	121.56
1	m	700	ASP	CA-C-O	-5.43	115.64	121.56
1	n	700	ASP	CA-C-O	-5.43	115.64	121.56
1	o	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	p	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	q	430	LEU	N-CA-C	5.43	117.28	111.36
1	u	430	LEU	N-CA-C	5.43	117.28	111.36
1	v	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	w	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	x	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	y	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	z	430	LEU	N-CA-C	5.43	117.28	111.36
1	1	700	ASP	CA-C-O	-5.43	115.64	121.56
1	2	700	ASP	CA-C-O	-5.43	115.64	121.56
1	3	700	ASP	CA-C-O	-5.43	115.64	121.56
1	4	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	5	430	LEU	N-CA-C	5.43	117.28	111.36
1	6	606	PRO	N-CA-CB	-5.43	98.29	103.34
1	7	606	PRO	N-CA-CB	-5.43	98.29	103.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	430	LEU	N-CA-C	5.43	117.28	111.36
1	N	430	LEU	N-CA-C	5.43	117.28	111.36
1	O	430	LEU	N-CA-C	5.43	117.28	111.36
1	i	430	LEU	N-CA-C	5.43	117.28	111.36
1	j	430	LEU	N-CA-C	5.43	117.28	111.36
1	s	430	LEU	N-CA-C	5.43	117.28	111.36
1	t	430	LEU	N-CA-C	5.43	117.28	111.36
1	E	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	F	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	G	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	N	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	O	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	P	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	i	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	j	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	k	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	r	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	s	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	t	428	ASN	CA-CB-CG	5.43	118.03	112.60
1	D	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	H	430	LEU	N-CA-C	5.43	117.28	111.36
1	I	430	LEU	N-CA-C	5.43	117.28	111.36
1	J	430	LEU	N-CA-C	5.43	117.28	111.36
1	L	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	S	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	U	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	W	430	LEU	N-CA-C	5.43	117.28	111.36
1	X	430	LEU	N-CA-C	5.43	117.28	111.36
1	Y	430	LEU	N-CA-C	5.43	117.28	111.36
1	Z	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	c	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	h	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	l	430	LEU	N-CA-C	5.43	117.28	111.36
1	m	430	LEU	N-CA-C	5.43	117.28	111.36
1	n	430	LEU	N-CA-C	5.43	117.28	111.36
1	p	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	w	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	y	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	1	430	LEU	N-CA-C	5.43	117.28	111.36
1	2	430	LEU	N-CA-C	5.43	117.28	111.36
1	3	430	LEU	N-CA-C	5.43	117.28	111.36
1	4	695	ASP	CA-CB-CG	5.43	118.03	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	695	ASP	CA-CB-CG	5.43	118.03	112.60
1	B	700	ASP	CA-C-O	-5.41	115.66	121.56
1	M	700	ASP	CA-C-O	-5.41	115.66	121.56
1	Q	700	ASP	CA-C-O	-5.41	115.66	121.56
1	S	700	ASP	CA-C-O	-5.41	115.66	121.56
1	V	700	ASP	CA-C-O	-5.41	115.66	121.56
1	Z	700	ASP	CA-C-O	-5.41	115.66	121.56
1	a	700	ASP	CA-C-O	-5.41	115.66	121.56
1	d	700	ASP	CA-C-O	-5.41	115.66	121.56
1	f	700	ASP	CA-C-O	-5.41	115.66	121.56
1	h	700	ASP	CA-C-O	-5.41	115.66	121.56
1	q	700	ASP	CA-C-O	-5.41	115.66	121.56
1	u	700	ASP	CA-C-O	-5.41	115.66	121.56
1	w	700	ASP	CA-C-O	-5.41	115.66	121.56
1	y	700	ASP	CA-C-O	-5.41	115.66	121.56
1	z	700	ASP	CA-C-O	-5.41	115.66	121.56
1	5	700	ASP	CA-C-O	-5.41	115.66	121.56
1	7	700	ASP	CA-C-O	-5.41	115.66	121.56
1	8	700	ASP	CA-C-O	-5.41	115.66	121.56
1	A	700	ASP	CA-C-O	-5.41	115.66	121.56
1	C	700	ASP	CA-C-O	-5.41	115.66	121.56
1	K	700	ASP	CA-C-O	-5.41	115.66	121.56
1	O	700	ASP	CA-C-O	-5.41	115.66	121.56
1	P	700	ASP	CA-C-O	-5.41	115.66	121.56
1	R	700	ASP	CA-C-O	-5.41	115.66	121.56
1	T	700	ASP	CA-C-O	-5.41	115.66	121.56
1	b	700	ASP	CA-C-O	-5.41	115.66	121.56
1	e	700	ASP	CA-C-O	-5.41	115.66	121.56
1	g	700	ASP	CA-C-O	-5.41	115.66	121.56
1	j	700	ASP	CA-C-O	-5.41	115.66	121.56
1	k	700	ASP	CA-C-O	-5.41	115.66	121.56
1	o	700	ASP	CA-C-O	-5.41	115.66	121.56
1	r	700	ASP	CA-C-O	-5.41	115.66	121.56
1	t	700	ASP	CA-C-O	-5.41	115.66	121.56
1	v	700	ASP	CA-C-O	-5.41	115.66	121.56
1	x	700	ASP	CA-C-O	-5.41	115.66	121.56
1	6	700	ASP	CA-C-O	-5.41	115.66	121.56
1	E	700	ASP	CA-C-O	-5.41	115.67	121.56
1	F	700	ASP	CA-C-O	-5.41	115.67	121.56
1	G	700	ASP	CA-C-O	-5.41	115.67	121.56
1	N	700	ASP	CA-C-O	-5.41	115.67	121.56
1	i	700	ASP	CA-C-O	-5.41	115.67	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	700	ASP	CA-C-O	-5.41	115.67	121.56
1	D	700	ASP	CA-C-O	-5.40	115.67	121.56
1	L	700	ASP	CA-C-O	-5.40	115.67	121.56
1	U	700	ASP	CA-C-O	-5.40	115.67	121.56
1	c	700	ASP	CA-C-O	-5.40	115.67	121.56
1	p	700	ASP	CA-C-O	-5.40	115.67	121.56
1	4	700	ASP	CA-C-O	-5.40	115.67	121.56
1	A	430	LEU	N-CA-C	5.40	117.25	111.36
1	C	430	LEU	N-CA-C	5.40	117.25	111.36
1	K	430	LEU	N-CA-C	5.40	117.25	111.36
1	R	430	LEU	N-CA-C	5.40	117.25	111.36
1	T	430	LEU	N-CA-C	5.40	117.25	111.36
1	b	430	LEU	N-CA-C	5.40	117.25	111.36
1	e	430	LEU	N-CA-C	5.40	117.25	111.36
1	g	430	LEU	N-CA-C	5.40	117.25	111.36
1	o	430	LEU	N-CA-C	5.40	117.25	111.36
1	v	430	LEU	N-CA-C	5.40	117.25	111.36
1	x	430	LEU	N-CA-C	5.40	117.25	111.36
1	6	430	LEU	N-CA-C	5.40	117.25	111.36
1	D	430	LEU	N-CA-C	5.39	117.24	111.36
1	L	430	LEU	N-CA-C	5.39	117.24	111.36
1	S	430	LEU	N-CA-C	5.39	117.24	111.36
1	U	430	LEU	N-CA-C	5.39	117.24	111.36
1	Z	430	LEU	N-CA-C	5.39	117.24	111.36
1	c	430	LEU	N-CA-C	5.39	117.24	111.36
1	h	430	LEU	N-CA-C	5.39	117.24	111.36
1	p	430	LEU	N-CA-C	5.39	117.24	111.36
1	w	430	LEU	N-CA-C	5.39	117.24	111.36
1	y	430	LEU	N-CA-C	5.39	117.24	111.36
1	4	430	LEU	N-CA-C	5.39	117.24	111.36
1	7	430	LEU	N-CA-C	5.39	117.24	111.36
1	H	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	I	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	J	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	W	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	X	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	Y	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	l	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	m	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	n	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	1	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	2	695	ASP	CA-CB-CG	5.39	117.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	695	ASP	CA-CB-CG	5.39	117.99	112.60
1	A	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	B	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	C	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	K	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	M	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	Q	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	R	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	T	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	V	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	a	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	b	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	d	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	e	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	f	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	g	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	o	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	q	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	u	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	v	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	x	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	z	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	5	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	6	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	8	695	ASP	CA-CB-CG	5.38	117.98	112.60
1	H	685	PRO	N-CA-C	5.38	119.63	111.19
1	I	685	PRO	N-CA-C	5.38	119.63	111.19
1	J	685	PRO	N-CA-C	5.38	119.63	111.19
1	W	685	PRO	N-CA-C	5.38	119.63	111.19
1	X	685	PRO	N-CA-C	5.38	119.63	111.19
1	Y	685	PRO	N-CA-C	5.38	119.63	111.19
1	l	685	PRO	N-CA-C	5.38	119.63	111.19
1	m	685	PRO	N-CA-C	5.38	119.63	111.19
1	n	685	PRO	N-CA-C	5.38	119.63	111.19
1	1	685	PRO	N-CA-C	5.38	119.63	111.19
1	2	685	PRO	N-CA-C	5.38	119.63	111.19
1	3	685	PRO	N-CA-C	5.38	119.63	111.19
1	D	685	PRO	N-CA-C	5.37	119.62	111.19
1	E	625	GLY	CA-C-O	-5.37	117.98	122.33
1	F	625	GLY	CA-C-O	-5.37	117.98	122.33
1	G	625	GLY	CA-C-O	-5.37	117.98	122.33
1	L	685	PRO	N-CA-C	5.37	119.62	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	625	GLY	CA-C-O	-5.37	117.98	122.33
1	O	625	GLY	CA-C-O	-5.37	117.98	122.33
1	P	625	GLY	CA-C-O	-5.37	117.98	122.33
1	S	685	PRO	N-CA-C	5.37	119.62	111.19
1	U	685	PRO	N-CA-C	5.37	119.62	111.19
1	Z	685	PRO	N-CA-C	5.37	119.62	111.19
1	c	685	PRO	N-CA-C	5.37	119.62	111.19
1	h	685	PRO	N-CA-C	5.37	119.62	111.19
1	i	625	GLY	CA-C-O	-5.37	117.98	122.33
1	j	625	GLY	CA-C-O	-5.37	117.98	122.33
1	k	625	GLY	CA-C-O	-5.37	117.98	122.33
1	p	685	PRO	N-CA-C	5.37	119.62	111.19
1	r	625	GLY	CA-C-O	-5.37	117.98	122.33
1	s	625	GLY	CA-C-O	-5.37	117.98	122.33
1	t	625	GLY	CA-C-O	-5.37	117.98	122.33
1	w	685	PRO	N-CA-C	5.37	119.62	111.19
1	y	685	PRO	N-CA-C	5.37	119.62	111.19
1	4	685	PRO	N-CA-C	5.37	119.62	111.19
1	7	685	PRO	N-CA-C	5.37	119.62	111.19
1	E	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	F	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	G	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	N	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	O	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	P	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	i	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	j	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	k	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	r	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	s	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	t	695	ASP	CA-CB-CG	5.37	117.97	112.60
1	B	685	PRO	N-CA-C	5.36	119.61	111.19
1	M	685	PRO	N-CA-C	5.36	119.61	111.19
1	Q	685	PRO	N-CA-C	5.36	119.61	111.19
1	V	685	PRO	N-CA-C	5.36	119.61	111.19
1	a	685	PRO	N-CA-C	5.36	119.61	111.19
1	d	685	PRO	N-CA-C	5.36	119.61	111.19
1	f	685	PRO	N-CA-C	5.36	119.61	111.19
1	q	685	PRO	N-CA-C	5.36	119.61	111.19
1	u	685	PRO	N-CA-C	5.36	119.61	111.19
1	z	685	PRO	N-CA-C	5.36	119.61	111.19
1	5	685	PRO	N-CA-C	5.36	119.61	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	685	PRO	N-CA-C	5.36	119.61	111.19
1	B	625	GLY	CA-C-O	-5.36	117.99	122.33
1	M	625	GLY	CA-C-O	-5.36	117.99	122.33
1	Q	625	GLY	CA-C-O	-5.36	117.99	122.33
1	V	625	GLY	CA-C-O	-5.36	117.99	122.33
1	a	625	GLY	CA-C-O	-5.36	117.99	122.33
1	d	625	GLY	CA-C-O	-5.36	117.99	122.33
1	f	625	GLY	CA-C-O	-5.36	117.99	122.33
1	q	625	GLY	CA-C-O	-5.36	117.99	122.33
1	u	625	GLY	CA-C-O	-5.36	117.99	122.33
1	z	625	GLY	CA-C-O	-5.36	117.99	122.33
1	5	625	GLY	CA-C-O	-5.36	117.99	122.33
1	8	625	GLY	CA-C-O	-5.36	117.99	122.33
1	A	685	PRO	N-CA-C	5.36	119.60	111.19
1	C	685	PRO	N-CA-C	5.36	119.60	111.19
1	K	685	PRO	N-CA-C	5.36	119.60	111.19
1	R	685	PRO	N-CA-C	5.36	119.60	111.19
1	T	685	PRO	N-CA-C	5.36	119.60	111.19
1	b	685	PRO	N-CA-C	5.36	119.60	111.19
1	e	685	PRO	N-CA-C	5.36	119.60	111.19
1	g	685	PRO	N-CA-C	5.36	119.60	111.19
1	o	685	PRO	N-CA-C	5.36	119.60	111.19
1	v	685	PRO	N-CA-C	5.36	119.60	111.19
1	x	685	PRO	N-CA-C	5.36	119.60	111.19
1	6	685	PRO	N-CA-C	5.36	119.60	111.19
1	A	625	GLY	CA-C-O	-5.34	118.01	122.33
1	C	625	GLY	CA-C-O	-5.34	118.01	122.33
1	K	625	GLY	CA-C-O	-5.34	118.01	122.33
1	R	625	GLY	CA-C-O	-5.34	118.01	122.33
1	T	625	GLY	CA-C-O	-5.34	118.01	122.33
1	b	625	GLY	CA-C-O	-5.34	118.01	122.33
1	e	625	GLY	CA-C-O	-5.34	118.01	122.33
1	g	625	GLY	CA-C-O	-5.34	118.01	122.33
1	o	625	GLY	CA-C-O	-5.34	118.01	122.33
1	v	625	GLY	CA-C-O	-5.34	118.01	122.33
1	x	625	GLY	CA-C-O	-5.34	118.01	122.33
1	6	625	GLY	CA-C-O	-5.34	118.01	122.33
1	E	685	PRO	N-CA-C	5.34	119.57	111.19
1	F	685	PRO	N-CA-C	5.34	119.57	111.19
1	G	685	PRO	N-CA-C	5.34	119.57	111.19
1	N	685	PRO	N-CA-C	5.34	119.57	111.19
1	O	685	PRO	N-CA-C	5.34	119.57	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	685	PRO	N-CA-C	5.34	119.57	111.19
1	i	685	PRO	N-CA-C	5.34	119.57	111.19
1	j	685	PRO	N-CA-C	5.34	119.57	111.19
1	k	685	PRO	N-CA-C	5.34	119.57	111.19
1	r	685	PRO	N-CA-C	5.34	119.57	111.19
1	s	685	PRO	N-CA-C	5.34	119.57	111.19
1	t	685	PRO	N-CA-C	5.34	119.57	111.19
1	D	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	L	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	S	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	U	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	Z	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	c	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	h	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	p	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	w	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	y	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	4	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	7	372	ASN	CA-CB-CG	5.33	117.93	112.60
1	B	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	M	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	Q	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	V	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	a	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	d	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	f	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	q	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	u	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	z	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	5	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	8	372	ASN	CA-CB-CG	5.33	117.92	112.60
1	D	625	GLY	CA-C-O	-5.32	118.02	122.33
1	D	684	ASN	CB-CA-C	5.32	117.09	109.11
1	E	684	ASN	CB-CA-C	5.32	117.09	109.11
1	F	684	ASN	CB-CA-C	5.32	117.09	109.11
1	G	684	ASN	CB-CA-C	5.32	117.09	109.11
1	L	625	GLY	CA-C-O	-5.32	118.02	122.33
1	L	684	ASN	CB-CA-C	5.32	117.09	109.11
1	N	684	ASN	CB-CA-C	5.32	117.09	109.11
1	O	684	ASN	CB-CA-C	5.32	117.09	109.11
1	P	684	ASN	CB-CA-C	5.32	117.09	109.11
1	S	625	GLY	CA-C-O	-5.32	118.02	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	684	ASN	CB-CA-C	5.32	117.09	109.11
1	U	625	GLY	CA-C-O	-5.32	118.02	122.33
1	U	684	ASN	CB-CA-C	5.32	117.09	109.11
1	Z	625	GLY	CA-C-O	-5.32	118.02	122.33
1	Z	684	ASN	CB-CA-C	5.32	117.09	109.11
1	c	625	GLY	CA-C-O	-5.32	118.02	122.33
1	c	684	ASN	CB-CA-C	5.32	117.09	109.11
1	h	625	GLY	CA-C-O	-5.32	118.02	122.33
1	h	684	ASN	CB-CA-C	5.32	117.09	109.11
1	i	684	ASN	CB-CA-C	5.32	117.09	109.11
1	j	684	ASN	CB-CA-C	5.32	117.09	109.11
1	k	684	ASN	CB-CA-C	5.32	117.09	109.11
1	p	625	GLY	CA-C-O	-5.32	118.02	122.33
1	p	684	ASN	CB-CA-C	5.32	117.09	109.11
1	r	684	ASN	CB-CA-C	5.32	117.09	109.11
1	s	684	ASN	CB-CA-C	5.32	117.09	109.11
1	t	684	ASN	CB-CA-C	5.32	117.09	109.11
1	w	625	GLY	CA-C-O	-5.32	118.02	122.33
1	w	684	ASN	CB-CA-C	5.32	117.09	109.11
1	y	625	GLY	CA-C-O	-5.32	118.02	122.33
1	y	684	ASN	CB-CA-C	5.32	117.09	109.11
1	4	625	GLY	CA-C-O	-5.32	118.02	122.33
1	4	684	ASN	CB-CA-C	5.32	117.09	109.11
1	7	625	GLY	CA-C-O	-5.32	118.02	122.33
1	7	684	ASN	CB-CA-C	5.32	117.09	109.11
1	A	684	ASN	CB-CA-C	5.32	117.08	109.11
1	C	684	ASN	CB-CA-C	5.32	117.08	109.11
1	K	684	ASN	CB-CA-C	5.32	117.08	109.11
1	R	684	ASN	CB-CA-C	5.32	117.08	109.11
1	T	684	ASN	CB-CA-C	5.32	117.08	109.11
1	b	684	ASN	CB-CA-C	5.32	117.08	109.11
1	e	684	ASN	CB-CA-C	5.32	117.08	109.11
1	g	684	ASN	CB-CA-C	5.32	117.08	109.11
1	o	684	ASN	CB-CA-C	5.32	117.08	109.11
1	v	684	ASN	CB-CA-C	5.32	117.08	109.11
1	x	684	ASN	CB-CA-C	5.32	117.08	109.11
1	6	684	ASN	CB-CA-C	5.32	117.08	109.11
1	B	684	ASN	CB-CA-C	5.31	117.08	109.11
1	E	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	F	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	G	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	M	684	ASN	CB-CA-C	5.31	117.08	109.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	O	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	P	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	Q	684	ASN	CB-CA-C	5.31	117.08	109.11
1	V	684	ASN	CB-CA-C	5.31	117.08	109.11
1	a	684	ASN	CB-CA-C	5.31	117.08	109.11
1	d	684	ASN	CB-CA-C	5.31	117.08	109.11
1	f	684	ASN	CB-CA-C	5.31	117.08	109.11
1	i	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	j	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	k	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	q	684	ASN	CB-CA-C	5.31	117.08	109.11
1	r	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	s	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	t	372	ASN	CA-CB-CG	5.31	117.91	112.60
1	u	684	ASN	CB-CA-C	5.31	117.08	109.11
1	z	684	ASN	CB-CA-C	5.31	117.08	109.11
1	5	684	ASN	CB-CA-C	5.31	117.08	109.11
1	8	684	ASN	CB-CA-C	5.31	117.08	109.11
1	H	684	ASN	CB-CA-C	5.31	117.07	109.11
1	I	684	ASN	CB-CA-C	5.31	117.07	109.11
1	J	684	ASN	CB-CA-C	5.31	117.07	109.11
1	W	684	ASN	CB-CA-C	5.31	117.07	109.11
1	X	684	ASN	CB-CA-C	5.31	117.07	109.11
1	Y	684	ASN	CB-CA-C	5.31	117.07	109.11
1	l	684	ASN	CB-CA-C	5.31	117.07	109.11
1	m	684	ASN	CB-CA-C	5.31	117.07	109.11
1	n	684	ASN	CB-CA-C	5.31	117.07	109.11
1	1	684	ASN	CB-CA-C	5.31	117.07	109.11
1	2	684	ASN	CB-CA-C	5.31	117.07	109.11
1	3	684	ASN	CB-CA-C	5.31	117.07	109.11
1	H	625	GLY	CA-C-O	-5.30	118.03	122.33
1	I	625	GLY	CA-C-O	-5.30	118.03	122.33
1	J	625	GLY	CA-C-O	-5.30	118.03	122.33
1	W	625	GLY	CA-C-O	-5.30	118.03	122.33
1	X	625	GLY	CA-C-O	-5.30	118.03	122.33
1	Y	625	GLY	CA-C-O	-5.30	118.03	122.33
1	l	625	GLY	CA-C-O	-5.30	118.03	122.33
1	m	625	GLY	CA-C-O	-5.30	118.03	122.33
1	n	625	GLY	CA-C-O	-5.30	118.03	122.33
1	1	625	GLY	CA-C-O	-5.30	118.03	122.33
1	2	625	GLY	CA-C-O	-5.30	118.03	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	625	GLY	CA-C-O	-5.30	118.03	122.33
1	H	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	I	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	J	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	W	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	X	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	Y	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	l	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	m	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	n	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	1	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	2	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	3	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	A	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	C	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	D	357	PRO	CA-C-N	5.30	124.96	119.56
1	D	357	PRO	C-N-CA	5.30	124.96	119.56
1	E	357	PRO	CA-C-N	5.30	124.96	119.56
1	E	357	PRO	C-N-CA	5.30	124.96	119.56
1	F	357	PRO	CA-C-N	5.30	124.96	119.56
1	F	357	PRO	C-N-CA	5.30	124.96	119.56
1	G	357	PRO	CA-C-N	5.30	124.96	119.56
1	G	357	PRO	C-N-CA	5.30	124.96	119.56
1	K	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	L	357	PRO	CA-C-N	5.30	124.96	119.56
1	L	357	PRO	C-N-CA	5.30	124.96	119.56
1	N	357	PRO	CA-C-N	5.30	124.96	119.56
1	N	357	PRO	C-N-CA	5.30	124.96	119.56
1	O	357	PRO	CA-C-N	5.30	124.96	119.56
1	O	357	PRO	C-N-CA	5.30	124.96	119.56
1	P	357	PRO	CA-C-N	5.30	124.96	119.56
1	P	357	PRO	C-N-CA	5.30	124.96	119.56
1	R	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	S	357	PRO	CA-C-N	5.30	124.96	119.56
1	S	357	PRO	C-N-CA	5.30	124.96	119.56
1	T	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	U	357	PRO	CA-C-N	5.30	124.96	119.56
1	U	357	PRO	C-N-CA	5.30	124.96	119.56
1	Z	357	PRO	CA-C-N	5.30	124.96	119.56
1	Z	357	PRO	C-N-CA	5.30	124.96	119.56
1	b	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	c	357	PRO	CA-C-N	5.30	124.96	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	357	PRO	C-N-CA	5.30	124.96	119.56
1	e	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	g	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	h	357	PRO	CA-C-N	5.30	124.96	119.56
1	h	357	PRO	C-N-CA	5.30	124.96	119.56
1	i	357	PRO	CA-C-N	5.30	124.96	119.56
1	i	357	PRO	C-N-CA	5.30	124.96	119.56
1	j	357	PRO	CA-C-N	5.30	124.96	119.56
1	j	357	PRO	C-N-CA	5.30	124.96	119.56
1	k	357	PRO	CA-C-N	5.30	124.96	119.56
1	k	357	PRO	C-N-CA	5.30	124.96	119.56
1	o	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	p	357	PRO	CA-C-N	5.30	124.96	119.56
1	p	357	PRO	C-N-CA	5.30	124.96	119.56
1	r	357	PRO	CA-C-N	5.30	124.96	119.56
1	r	357	PRO	C-N-CA	5.30	124.96	119.56
1	s	357	PRO	CA-C-N	5.30	124.96	119.56
1	s	357	PRO	C-N-CA	5.30	124.96	119.56
1	t	357	PRO	CA-C-N	5.30	124.96	119.56
1	t	357	PRO	C-N-CA	5.30	124.96	119.56
1	v	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	w	357	PRO	CA-C-N	5.30	124.96	119.56
1	w	357	PRO	C-N-CA	5.30	124.96	119.56
1	x	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	y	357	PRO	CA-C-N	5.30	124.96	119.56
1	y	357	PRO	C-N-CA	5.30	124.96	119.56
1	4	357	PRO	CA-C-N	5.30	124.96	119.56
1	4	357	PRO	C-N-CA	5.30	124.96	119.56
1	6	372	ASN	CA-CB-CG	5.30	117.90	112.60
1	7	357	PRO	CA-C-N	5.30	124.96	119.56
1	7	357	PRO	C-N-CA	5.30	124.96	119.56
1	B	357	PRO	CA-C-N	5.28	124.94	119.56
1	B	357	PRO	C-N-CA	5.28	124.94	119.56
1	E	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	F	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	G	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	M	357	PRO	CA-C-N	5.28	124.94	119.56
1	M	357	PRO	C-N-CA	5.28	124.94	119.56
1	N	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	O	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	P	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	V	357	PRO	CA-C-N	5.28	124.94	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	357	PRO	C-N-CA	5.28	124.94	119.56
1	d	357	PRO	CA-C-N	5.28	124.94	119.56
1	d	357	PRO	C-N-CA	5.28	124.94	119.56
1	i	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	j	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	k	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	q	357	PRO	CA-C-N	5.28	124.94	119.56
1	q	357	PRO	C-N-CA	5.28	124.94	119.56
1	r	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	s	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	t	704	ASP	CA-CB-CG	5.28	117.88	112.60
1	5	357	PRO	CA-C-N	5.28	124.94	119.56
1	5	357	PRO	C-N-CA	5.28	124.94	119.56
1	A	357	PRO	CA-C-N	5.27	124.94	119.56
1	A	357	PRO	C-N-CA	5.27	124.94	119.56
1	C	357	PRO	CA-C-N	5.27	124.94	119.56
1	C	357	PRO	C-N-CA	5.27	124.94	119.56
1	K	357	PRO	CA-C-N	5.27	124.94	119.56
1	K	357	PRO	C-N-CA	5.27	124.94	119.56
1	R	357	PRO	CA-C-N	5.27	124.94	119.56
1	R	357	PRO	C-N-CA	5.27	124.94	119.56
1	T	357	PRO	CA-C-N	5.27	124.94	119.56
1	T	357	PRO	C-N-CA	5.27	124.94	119.56
1	b	357	PRO	CA-C-N	5.27	124.94	119.56
1	b	357	PRO	C-N-CA	5.27	124.94	119.56
1	e	357	PRO	CA-C-N	5.27	124.94	119.56
1	e	357	PRO	C-N-CA	5.27	124.94	119.56
1	g	357	PRO	CA-C-N	5.27	124.94	119.56
1	g	357	PRO	C-N-CA	5.27	124.94	119.56
1	o	357	PRO	CA-C-N	5.27	124.94	119.56
1	o	357	PRO	C-N-CA	5.27	124.94	119.56
1	v	357	PRO	CA-C-N	5.27	124.94	119.56
1	v	357	PRO	C-N-CA	5.27	124.94	119.56
1	x	357	PRO	CA-C-N	5.27	124.94	119.56
1	x	357	PRO	C-N-CA	5.27	124.94	119.56
1	6	357	PRO	CA-C-N	5.27	124.94	119.56
1	6	357	PRO	C-N-CA	5.27	124.94	119.56
1	D	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	L	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	S	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	U	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	Z	704	ASP	CA-CB-CG	5.27	117.87	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	h	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	p	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	w	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	y	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	4	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	7	704	ASP	CA-CB-CG	5.27	117.87	112.60
1	A	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	C	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	K	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	R	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	T	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	b	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	e	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	g	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	o	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	v	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	x	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	6	704	ASP	CA-CB-CG	5.26	117.86	112.60
1	B	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	M	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	Q	357	PRO	CA-C-N	5.25	124.91	119.56
1	Q	357	PRO	C-N-CA	5.25	124.91	119.56
1	Q	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	V	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	a	357	PRO	CA-C-N	5.25	124.91	119.56
1	a	357	PRO	C-N-CA	5.25	124.91	119.56
1	a	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	d	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	f	357	PRO	CA-C-N	5.25	124.91	119.56
1	f	357	PRO	C-N-CA	5.25	124.91	119.56
1	f	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	q	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	u	357	PRO	CA-C-N	5.25	124.91	119.56
1	u	357	PRO	C-N-CA	5.25	124.91	119.56
1	u	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	z	357	PRO	CA-C-N	5.25	124.91	119.56
1	z	357	PRO	C-N-CA	5.25	124.91	119.56
1	z	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	5	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	8	357	PRO	CA-C-N	5.25	124.91	119.56
1	8	357	PRO	C-N-CA	5.25	124.91	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	704	ASP	CA-CB-CG	5.25	117.85	112.60
1	H	357	PRO	CA-C-N	5.25	124.91	119.56
1	H	357	PRO	C-N-CA	5.25	124.91	119.56
1	I	357	PRO	CA-C-N	5.25	124.91	119.56
1	I	357	PRO	C-N-CA	5.25	124.91	119.56
1	J	357	PRO	CA-C-N	5.25	124.91	119.56
1	J	357	PRO	C-N-CA	5.25	124.91	119.56
1	W	357	PRO	CA-C-N	5.25	124.91	119.56
1	W	357	PRO	C-N-CA	5.25	124.91	119.56
1	X	357	PRO	CA-C-N	5.25	124.91	119.56
1	X	357	PRO	C-N-CA	5.25	124.91	119.56
1	Y	357	PRO	CA-C-N	5.25	124.91	119.56
1	Y	357	PRO	C-N-CA	5.25	124.91	119.56
1	l	357	PRO	CA-C-N	5.25	124.91	119.56
1	l	357	PRO	C-N-CA	5.25	124.91	119.56
1	m	357	PRO	CA-C-N	5.25	124.91	119.56
1	m	357	PRO	C-N-CA	5.25	124.91	119.56
1	n	357	PRO	CA-C-N	5.25	124.91	119.56
1	n	357	PRO	C-N-CA	5.25	124.91	119.56
1	1	357	PRO	CA-C-N	5.25	124.91	119.56
1	1	357	PRO	C-N-CA	5.25	124.91	119.56
1	2	357	PRO	CA-C-N	5.25	124.91	119.56
1	2	357	PRO	C-N-CA	5.25	124.91	119.56
1	3	357	PRO	CA-C-N	5.25	124.91	119.56
1	3	357	PRO	C-N-CA	5.25	124.91	119.56
1	E	711	SER	CA-C-N	5.24	127.30	120.28
1	E	711	SER	C-N-CA	5.24	127.30	120.28
1	F	711	SER	CA-C-N	5.24	127.30	120.28
1	F	711	SER	C-N-CA	5.24	127.30	120.28
1	G	711	SER	CA-C-N	5.24	127.30	120.28
1	G	711	SER	C-N-CA	5.24	127.30	120.28
1	H	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	I	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	J	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	N	711	SER	CA-C-N	5.24	127.30	120.28
1	N	711	SER	C-N-CA	5.24	127.30	120.28
1	O	711	SER	CA-C-N	5.24	127.30	120.28
1	O	711	SER	C-N-CA	5.24	127.30	120.28
1	P	711	SER	CA-C-N	5.24	127.30	120.28
1	P	711	SER	C-N-CA	5.24	127.30	120.28
1	W	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	X	704	ASP	CA-CB-CG	5.24	117.84	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	i	711	SER	CA-C-N	5.24	127.30	120.28
1	i	711	SER	C-N-CA	5.24	127.30	120.28
1	j	711	SER	CA-C-N	5.24	127.30	120.28
1	j	711	SER	C-N-CA	5.24	127.30	120.28
1	k	711	SER	CA-C-N	5.24	127.30	120.28
1	k	711	SER	C-N-CA	5.24	127.30	120.28
1	l	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	m	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	n	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	r	711	SER	CA-C-N	5.24	127.30	120.28
1	r	711	SER	C-N-CA	5.24	127.30	120.28
1	s	711	SER	CA-C-N	5.24	127.30	120.28
1	s	711	SER	C-N-CA	5.24	127.30	120.28
1	t	711	SER	CA-C-N	5.24	127.30	120.28
1	t	711	SER	C-N-CA	5.24	127.30	120.28
1	1	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	2	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	3	704	ASP	CA-CB-CG	5.24	117.84	112.60
1	B	711	SER	CA-C-N	5.20	127.25	120.28
1	B	711	SER	C-N-CA	5.20	127.25	120.28
1	M	711	SER	CA-C-N	5.20	127.25	120.28
1	M	711	SER	C-N-CA	5.20	127.25	120.28
1	Q	711	SER	CA-C-N	5.20	127.25	120.28
1	Q	711	SER	C-N-CA	5.20	127.25	120.28
1	V	711	SER	CA-C-N	5.20	127.25	120.28
1	V	711	SER	C-N-CA	5.20	127.25	120.28
1	a	711	SER	CA-C-N	5.20	127.25	120.28
1	a	711	SER	C-N-CA	5.20	127.25	120.28
1	d	711	SER	CA-C-N	5.20	127.25	120.28
1	d	711	SER	C-N-CA	5.20	127.25	120.28
1	f	711	SER	CA-C-N	5.20	127.25	120.28
1	f	711	SER	C-N-CA	5.20	127.25	120.28
1	q	711	SER	CA-C-N	5.20	127.25	120.28
1	q	711	SER	C-N-CA	5.20	127.25	120.28
1	u	711	SER	CA-C-N	5.20	127.25	120.28
1	u	711	SER	C-N-CA	5.20	127.25	120.28
1	z	711	SER	CA-C-N	5.20	127.25	120.28
1	z	711	SER	C-N-CA	5.20	127.25	120.28
1	5	711	SER	CA-C-N	5.20	127.25	120.28
1	5	711	SER	C-N-CA	5.20	127.25	120.28
1	8	711	SER	CA-C-N	5.20	127.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	711	SER	C-N-CA	5.20	127.25	120.28
1	A	711	SER	CA-C-N	5.19	127.24	120.28
1	A	711	SER	C-N-CA	5.19	127.24	120.28
1	C	711	SER	CA-C-N	5.19	127.24	120.28
1	C	711	SER	C-N-CA	5.19	127.24	120.28
1	K	711	SER	CA-C-N	5.19	127.24	120.28
1	K	711	SER	C-N-CA	5.19	127.24	120.28
1	R	711	SER	CA-C-N	5.19	127.24	120.28
1	R	711	SER	C-N-CA	5.19	127.24	120.28
1	T	711	SER	CA-C-N	5.19	127.24	120.28
1	T	711	SER	C-N-CA	5.19	127.24	120.28
1	b	711	SER	CA-C-N	5.19	127.24	120.28
1	b	711	SER	C-N-CA	5.19	127.24	120.28
1	e	711	SER	CA-C-N	5.19	127.24	120.28
1	e	711	SER	C-N-CA	5.19	127.24	120.28
1	g	711	SER	CA-C-N	5.19	127.24	120.28
1	g	711	SER	C-N-CA	5.19	127.24	120.28
1	o	711	SER	CA-C-N	5.19	127.24	120.28
1	o	711	SER	C-N-CA	5.19	127.24	120.28
1	v	711	SER	CA-C-N	5.19	127.24	120.28
1	v	711	SER	C-N-CA	5.19	127.24	120.28
1	x	711	SER	CA-C-N	5.19	127.24	120.28
1	x	711	SER	C-N-CA	5.19	127.24	120.28
1	6	711	SER	CA-C-N	5.19	127.24	120.28
1	6	711	SER	C-N-CA	5.19	127.24	120.28
1	D	711	SER	CA-C-N	5.19	127.23	120.28
1	D	711	SER	C-N-CA	5.19	127.23	120.28
1	L	711	SER	CA-C-N	5.19	127.23	120.28
1	L	711	SER	C-N-CA	5.19	127.23	120.28
1	S	711	SER	CA-C-N	5.19	127.23	120.28
1	S	711	SER	C-N-CA	5.19	127.23	120.28
1	U	711	SER	CA-C-N	5.19	127.23	120.28
1	U	711	SER	C-N-CA	5.19	127.23	120.28
1	Z	711	SER	CA-C-N	5.19	127.23	120.28
1	Z	711	SER	C-N-CA	5.19	127.23	120.28
1	c	711	SER	CA-C-N	5.19	127.23	120.28
1	c	711	SER	C-N-CA	5.19	127.23	120.28
1	h	711	SER	CA-C-N	5.19	127.23	120.28
1	h	711	SER	C-N-CA	5.19	127.23	120.28
1	p	711	SER	CA-C-N	5.19	127.23	120.28
1	p	711	SER	C-N-CA	5.19	127.23	120.28
1	w	711	SER	CA-C-N	5.19	127.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	711	SER	C-N-CA	5.19	127.23	120.28
1	y	711	SER	CA-C-N	5.19	127.23	120.28
1	y	711	SER	C-N-CA	5.19	127.23	120.28
1	4	711	SER	CA-C-N	5.19	127.23	120.28
1	4	711	SER	C-N-CA	5.19	127.23	120.28
1	7	711	SER	CA-C-N	5.19	127.23	120.28
1	7	711	SER	C-N-CA	5.19	127.23	120.28
1	H	711	SER	CA-C-N	5.16	127.20	120.28
1	H	711	SER	C-N-CA	5.16	127.20	120.28
1	I	711	SER	CA-C-N	5.16	127.20	120.28
1	I	711	SER	C-N-CA	5.16	127.20	120.28
1	J	711	SER	CA-C-N	5.16	127.20	120.28
1	J	711	SER	C-N-CA	5.16	127.20	120.28
1	W	711	SER	CA-C-N	5.16	127.20	120.28
1	W	711	SER	C-N-CA	5.16	127.20	120.28
1	X	711	SER	CA-C-N	5.16	127.20	120.28
1	X	711	SER	C-N-CA	5.16	127.20	120.28
1	Y	711	SER	CA-C-N	5.16	127.20	120.28
1	Y	711	SER	C-N-CA	5.16	127.20	120.28
1	l	711	SER	CA-C-N	5.16	127.20	120.28
1	l	711	SER	C-N-CA	5.16	127.20	120.28
1	m	711	SER	CA-C-N	5.16	127.20	120.28
1	m	711	SER	C-N-CA	5.16	127.20	120.28
1	n	711	SER	CA-C-N	5.16	127.20	120.28
1	n	711	SER	C-N-CA	5.16	127.20	120.28
1	1	711	SER	CA-C-N	5.16	127.20	120.28
1	1	711	SER	C-N-CA	5.16	127.20	120.28
1	2	711	SER	CA-C-N	5.16	127.20	120.28
1	2	711	SER	C-N-CA	5.16	127.20	120.28
1	3	711	SER	CA-C-N	5.16	127.20	120.28
1	3	711	SER	C-N-CA	5.16	127.20	120.28
1	A	696	PRO	N-CA-C	5.16	119.19	111.14
1	C	696	PRO	N-CA-C	5.16	119.19	111.14
1	K	696	PRO	N-CA-C	5.16	119.19	111.14
1	R	696	PRO	N-CA-C	5.16	119.19	111.14
1	T	696	PRO	N-CA-C	5.16	119.19	111.14
1	b	696	PRO	N-CA-C	5.16	119.19	111.14
1	e	696	PRO	N-CA-C	5.16	119.19	111.14
1	g	696	PRO	N-CA-C	5.16	119.19	111.14
1	o	696	PRO	N-CA-C	5.16	119.19	111.14
1	v	696	PRO	N-CA-C	5.16	119.19	111.14
1	x	696	PRO	N-CA-C	5.16	119.19	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	696	PRO	N-CA-C	5.16	119.19	111.14
1	E	696	PRO	N-CA-C	5.15	119.18	111.14
1	F	696	PRO	N-CA-C	5.15	119.18	111.14
1	G	696	PRO	N-CA-C	5.15	119.18	111.14
1	N	696	PRO	N-CA-C	5.15	119.18	111.14
1	O	696	PRO	N-CA-C	5.15	119.18	111.14
1	P	696	PRO	N-CA-C	5.15	119.18	111.14
1	i	696	PRO	N-CA-C	5.15	119.18	111.14
1	j	696	PRO	N-CA-C	5.15	119.18	111.14
1	k	696	PRO	N-CA-C	5.15	119.18	111.14
1	r	696	PRO	N-CA-C	5.15	119.18	111.14
1	s	696	PRO	N-CA-C	5.15	119.18	111.14
1	t	696	PRO	N-CA-C	5.15	119.18	111.14
1	D	696	PRO	N-CA-C	5.15	119.17	111.14
1	L	696	PRO	N-CA-C	5.15	119.17	111.14
1	S	696	PRO	N-CA-C	5.15	119.17	111.14
1	U	696	PRO	N-CA-C	5.15	119.17	111.14
1	Z	696	PRO	N-CA-C	5.15	119.17	111.14
1	c	696	PRO	N-CA-C	5.15	119.17	111.14
1	h	696	PRO	N-CA-C	5.15	119.17	111.14
1	p	696	PRO	N-CA-C	5.15	119.17	111.14
1	w	696	PRO	N-CA-C	5.15	119.17	111.14
1	y	696	PRO	N-CA-C	5.15	119.17	111.14
1	4	696	PRO	N-CA-C	5.15	119.17	111.14
1	7	696	PRO	N-CA-C	5.15	119.17	111.14
1	H	696	PRO	N-CA-C	5.14	119.17	111.14
1	I	696	PRO	N-CA-C	5.14	119.17	111.14
1	J	696	PRO	N-CA-C	5.14	119.17	111.14
1	W	696	PRO	N-CA-C	5.14	119.17	111.14
1	X	696	PRO	N-CA-C	5.14	119.17	111.14
1	Y	696	PRO	N-CA-C	5.14	119.17	111.14
1	l	696	PRO	N-CA-C	5.14	119.17	111.14
1	m	696	PRO	N-CA-C	5.14	119.17	111.14
1	n	696	PRO	N-CA-C	5.14	119.17	111.14
1	1	696	PRO	N-CA-C	5.14	119.17	111.14
1	2	696	PRO	N-CA-C	5.14	119.17	111.14
1	3	696	PRO	N-CA-C	5.14	119.17	111.14
1	B	696	PRO	N-CA-C	5.14	119.16	111.14
1	M	696	PRO	N-CA-C	5.14	119.16	111.14
1	Q	696	PRO	N-CA-C	5.14	119.16	111.14
1	V	696	PRO	N-CA-C	5.14	119.16	111.14
1	a	696	PRO	N-CA-C	5.14	119.16	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	696	PRO	N-CA-C	5.14	119.16	111.14
1	f	696	PRO	N-CA-C	5.14	119.16	111.14
1	q	696	PRO	N-CA-C	5.14	119.16	111.14
1	u	696	PRO	N-CA-C	5.14	119.16	111.14
1	z	696	PRO	N-CA-C	5.14	119.16	111.14
1	5	696	PRO	N-CA-C	5.14	119.16	111.14
1	8	696	PRO	N-CA-C	5.14	119.16	111.14
1	D	320	THR	CA-C-O	-5.09	115.16	120.55
1	L	320	THR	CA-C-O	-5.09	115.16	120.55
1	S	320	THR	CA-C-O	-5.09	115.16	120.55
1	U	320	THR	CA-C-O	-5.09	115.16	120.55
1	Z	320	THR	CA-C-O	-5.09	115.16	120.55
1	c	320	THR	CA-C-O	-5.09	115.16	120.55
1	h	320	THR	CA-C-O	-5.09	115.16	120.55
1	p	320	THR	CA-C-O	-5.09	115.16	120.55
1	w	320	THR	CA-C-O	-5.09	115.16	120.55
1	y	320	THR	CA-C-O	-5.09	115.16	120.55
1	4	320	THR	CA-C-O	-5.09	115.16	120.55
1	7	320	THR	CA-C-O	-5.09	115.16	120.55
1	J	320	THR	CA-C-O	-5.08	115.17	120.55
1	W	320	THR	CA-C-O	-5.08	115.17	120.55
1	l	320	THR	CA-C-O	-5.08	115.17	120.55
1	1	320	THR	CA-C-O	-5.08	115.17	120.55
1	2	320	THR	CA-C-O	-5.08	115.17	120.55
1	3	320	THR	CA-C-O	-5.08	115.17	120.55
1	H	320	THR	CA-C-O	-5.08	115.17	120.55
1	I	320	THR	CA-C-O	-5.08	115.17	120.55
1	X	320	THR	CA-C-O	-5.08	115.17	120.55
1	Y	320	THR	CA-C-O	-5.08	115.17	120.55
1	m	320	THR	CA-C-O	-5.08	115.17	120.55
1	n	320	THR	CA-C-O	-5.08	115.17	120.55
1	B	320	THR	CA-C-O	-5.06	115.18	120.55
1	M	320	THR	CA-C-O	-5.06	115.18	120.55
1	Q	320	THR	CA-C-O	-5.06	115.18	120.55
1	V	320	THR	CA-C-O	-5.06	115.18	120.55
1	a	320	THR	CA-C-O	-5.06	115.18	120.55
1	d	320	THR	CA-C-O	-5.06	115.18	120.55
1	f	320	THR	CA-C-O	-5.06	115.18	120.55
1	q	320	THR	CA-C-O	-5.06	115.18	120.55
1	u	320	THR	CA-C-O	-5.06	115.18	120.55
1	z	320	THR	CA-C-O	-5.06	115.18	120.55
1	5	320	THR	CA-C-O	-5.06	115.18	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	320	THR	CA-C-O	-5.06	115.18	120.55
1	N	320	THR	CA-C-O	-5.06	115.18	120.55
1	P	320	THR	CA-C-O	-5.06	115.18	120.55
1	i	320	THR	CA-C-O	-5.06	115.18	120.55
1	k	320	THR	CA-C-O	-5.06	115.18	120.55
1	r	320	THR	CA-C-O	-5.06	115.18	120.55
1	s	320	THR	CA-C-O	-5.06	115.18	120.55
1	E	361	PHE	N-CA-C	5.06	117.50	109.50
1	F	361	PHE	N-CA-C	5.06	117.50	109.50
1	G	361	PHE	N-CA-C	5.06	117.50	109.50
1	N	361	PHE	N-CA-C	5.06	117.50	109.50
1	O	361	PHE	N-CA-C	5.06	117.50	109.50
1	P	361	PHE	N-CA-C	5.06	117.50	109.50
1	i	361	PHE	N-CA-C	5.06	117.50	109.50
1	j	361	PHE	N-CA-C	5.06	117.50	109.50
1	k	361	PHE	N-CA-C	5.06	117.50	109.50
1	r	361	PHE	N-CA-C	5.06	117.50	109.50
1	s	361	PHE	N-CA-C	5.06	117.50	109.50
1	t	361	PHE	N-CA-C	5.06	117.50	109.50
1	A	320	THR	CA-C-O	-5.06	115.19	120.55
1	C	320	THR	CA-C-O	-5.06	115.19	120.55
1	K	320	THR	CA-C-O	-5.06	115.19	120.55
1	R	320	THR	CA-C-O	-5.06	115.19	120.55
1	T	320	THR	CA-C-O	-5.06	115.19	120.55
1	b	320	THR	CA-C-O	-5.06	115.19	120.55
1	e	320	THR	CA-C-O	-5.06	115.19	120.55
1	g	320	THR	CA-C-O	-5.06	115.19	120.55
1	o	320	THR	CA-C-O	-5.06	115.19	120.55
1	v	320	THR	CA-C-O	-5.06	115.19	120.55
1	x	320	THR	CA-C-O	-5.06	115.19	120.55
1	6	320	THR	CA-C-O	-5.06	115.19	120.55
1	D	361	PHE	N-CA-C	5.04	117.47	109.50
1	L	361	PHE	N-CA-C	5.04	117.47	109.50
1	S	361	PHE	N-CA-C	5.04	117.47	109.50
1	U	361	PHE	N-CA-C	5.04	117.47	109.50
1	Z	361	PHE	N-CA-C	5.04	117.47	109.50
1	c	361	PHE	N-CA-C	5.04	117.47	109.50
1	h	361	PHE	N-CA-C	5.04	117.47	109.50
1	p	361	PHE	N-CA-C	5.04	117.47	109.50
1	w	361	PHE	N-CA-C	5.04	117.47	109.50
1	y	361	PHE	N-CA-C	5.04	117.47	109.50
1	4	361	PHE	N-CA-C	5.04	117.47	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	361	PHE	N-CA-C	5.04	117.47	109.50
1	H	375	ASN	CB-CA-C	5.04	118.89	111.73
1	X	375	ASN	CB-CA-C	5.04	118.89	111.73
1	m	375	ASN	CB-CA-C	5.04	118.89	111.73
1	1	375	ASN	CB-CA-C	5.04	118.89	111.73
1	2	375	ASN	CB-CA-C	5.04	118.89	111.73
1	3	375	ASN	CB-CA-C	5.04	118.89	111.73
1	H	328	THR	N-CA-CB	-5.04	102.55	110.46
1	H	361	PHE	N-CA-C	5.04	117.47	109.50
1	I	328	THR	N-CA-CB	-5.04	102.55	110.46
1	I	361	PHE	N-CA-C	5.04	117.47	109.50
1	J	328	THR	N-CA-CB	-5.04	102.55	110.46
1	J	361	PHE	N-CA-C	5.04	117.47	109.50
1	W	328	THR	N-CA-CB	-5.04	102.55	110.46
1	W	361	PHE	N-CA-C	5.04	117.47	109.50
1	X	328	THR	N-CA-CB	-5.04	102.55	110.46
1	X	361	PHE	N-CA-C	5.04	117.47	109.50
1	Y	328	THR	N-CA-CB	-5.04	102.55	110.46
1	Y	361	PHE	N-CA-C	5.04	117.47	109.50
1	l	328	THR	N-CA-CB	-5.04	102.55	110.46
1	l	361	PHE	N-CA-C	5.04	117.47	109.50
1	m	328	THR	N-CA-CB	-5.04	102.55	110.46
1	m	361	PHE	N-CA-C	5.04	117.47	109.50
1	n	328	THR	N-CA-CB	-5.04	102.55	110.46
1	n	361	PHE	N-CA-C	5.04	117.47	109.50
1	1	328	THR	N-CA-CB	-5.04	102.55	110.46
1	1	361	PHE	N-CA-C	5.04	117.47	109.50
1	2	328	THR	N-CA-CB	-5.04	102.55	110.46
1	2	361	PHE	N-CA-C	5.04	117.47	109.50
1	3	328	THR	N-CA-CB	-5.04	102.55	110.46
1	3	361	PHE	N-CA-C	5.04	117.47	109.50
1	E	375	ASN	CB-CA-C	5.04	118.89	111.73
1	F	375	ASN	CB-CA-C	5.04	118.89	111.73
1	G	375	ASN	CB-CA-C	5.04	118.89	111.73
1	N	375	ASN	CB-CA-C	5.04	118.89	111.73
1	O	375	ASN	CB-CA-C	5.04	118.89	111.73
1	P	375	ASN	CB-CA-C	5.04	118.89	111.73
1	i	375	ASN	CB-CA-C	5.04	118.89	111.73
1	j	375	ASN	CB-CA-C	5.04	118.89	111.73
1	k	375	ASN	CB-CA-C	5.04	118.89	111.73
1	r	375	ASN	CB-CA-C	5.04	118.89	111.73
1	s	375	ASN	CB-CA-C	5.04	118.89	111.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	375	ASN	CB-CA-C	5.04	118.89	111.73
1	E	320	THR	CA-C-O	-5.04	115.21	120.55
1	F	320	THR	CA-C-O	-5.04	115.21	120.55
1	G	320	THR	CA-C-O	-5.04	115.21	120.55
1	O	320	THR	CA-C-O	-5.04	115.21	120.55
1	j	320	THR	CA-C-O	-5.04	115.21	120.55
1	t	320	THR	CA-C-O	-5.04	115.21	120.55
1	B	361	PHE	N-CA-C	5.03	117.45	109.50
1	M	361	PHE	N-CA-C	5.03	117.45	109.50
1	Q	361	PHE	N-CA-C	5.03	117.45	109.50
1	V	361	PHE	N-CA-C	5.03	117.45	109.50
1	a	361	PHE	N-CA-C	5.03	117.45	109.50
1	d	361	PHE	N-CA-C	5.03	117.45	109.50
1	f	361	PHE	N-CA-C	5.03	117.45	109.50
1	q	361	PHE	N-CA-C	5.03	117.45	109.50
1	u	361	PHE	N-CA-C	5.03	117.45	109.50
1	z	361	PHE	N-CA-C	5.03	117.45	109.50
1	5	361	PHE	N-CA-C	5.03	117.45	109.50
1	8	361	PHE	N-CA-C	5.03	117.45	109.50
1	A	361	PHE	N-CA-C	5.03	117.44	109.50
1	C	361	PHE	N-CA-C	5.03	117.44	109.50
1	K	361	PHE	N-CA-C	5.03	117.44	109.50
1	R	361	PHE	N-CA-C	5.03	117.44	109.50
1	T	361	PHE	N-CA-C	5.03	117.44	109.50
1	b	361	PHE	N-CA-C	5.03	117.44	109.50
1	e	361	PHE	N-CA-C	5.03	117.44	109.50
1	g	361	PHE	N-CA-C	5.03	117.44	109.50
1	o	361	PHE	N-CA-C	5.03	117.44	109.50
1	v	361	PHE	N-CA-C	5.03	117.44	109.50
1	x	361	PHE	N-CA-C	5.03	117.44	109.50
1	6	361	PHE	N-CA-C	5.03	117.44	109.50
1	A	375	ASN	CB-CA-C	5.03	118.87	111.73
1	C	375	ASN	CB-CA-C	5.03	118.87	111.73
1	K	375	ASN	CB-CA-C	5.03	118.87	111.73
1	R	375	ASN	CB-CA-C	5.03	118.87	111.73
1	T	375	ASN	CB-CA-C	5.03	118.87	111.73
1	b	375	ASN	CB-CA-C	5.03	118.87	111.73
1	e	375	ASN	CB-CA-C	5.03	118.87	111.73
1	g	375	ASN	CB-CA-C	5.03	118.87	111.73
1	o	375	ASN	CB-CA-C	5.03	118.87	111.73
1	v	375	ASN	CB-CA-C	5.03	118.87	111.73
1	x	375	ASN	CB-CA-C	5.03	118.87	111.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	375	ASN	CB-CA-C	5.03	118.87	111.73
1	D	375	ASN	CB-CA-C	5.02	118.86	111.73
1	L	375	ASN	CB-CA-C	5.02	118.86	111.73
1	S	375	ASN	CB-CA-C	5.02	118.86	111.73
1	U	375	ASN	CB-CA-C	5.02	118.86	111.73
1	Z	375	ASN	CB-CA-C	5.02	118.86	111.73
1	c	375	ASN	CB-CA-C	5.02	118.86	111.73
1	h	375	ASN	CB-CA-C	5.02	118.86	111.73
1	p	375	ASN	CB-CA-C	5.02	118.86	111.73
1	w	375	ASN	CB-CA-C	5.02	118.86	111.73
1	y	375	ASN	CB-CA-C	5.02	118.86	111.73
1	4	375	ASN	CB-CA-C	5.02	118.86	111.73
1	7	375	ASN	CB-CA-C	5.02	118.86	111.73
1	B	375	ASN	CB-CA-C	5.02	118.86	111.73
1	M	375	ASN	CB-CA-C	5.02	118.86	111.73
1	Q	375	ASN	CB-CA-C	5.02	118.86	111.73
1	V	375	ASN	CB-CA-C	5.02	118.86	111.73
1	a	375	ASN	CB-CA-C	5.02	118.86	111.73
1	d	375	ASN	CB-CA-C	5.02	118.86	111.73
1	f	375	ASN	CB-CA-C	5.02	118.86	111.73
1	q	375	ASN	CB-CA-C	5.02	118.86	111.73
1	u	375	ASN	CB-CA-C	5.02	118.86	111.73
1	z	375	ASN	CB-CA-C	5.02	118.86	111.73
1	5	375	ASN	CB-CA-C	5.02	118.86	111.73
1	8	375	ASN	CB-CA-C	5.02	118.86	111.73
1	B	328	THR	N-CA-CB	-5.02	102.58	110.46
1	M	328	THR	N-CA-CB	-5.02	102.58	110.46
1	Q	328	THR	N-CA-CB	-5.02	102.58	110.46
1	V	328	THR	N-CA-CB	-5.02	102.58	110.46
1	a	328	THR	N-CA-CB	-5.02	102.58	110.46
1	d	328	THR	N-CA-CB	-5.02	102.58	110.46
1	f	328	THR	N-CA-CB	-5.02	102.58	110.46
1	q	328	THR	N-CA-CB	-5.02	102.58	110.46
1	u	328	THR	N-CA-CB	-5.02	102.58	110.46
1	z	328	THR	N-CA-CB	-5.02	102.58	110.46
1	5	328	THR	N-CA-CB	-5.02	102.58	110.46
1	8	328	THR	N-CA-CB	-5.02	102.58	110.46
1	A	328	THR	N-CA-CB	-5.01	102.59	110.46
1	C	328	THR	N-CA-CB	-5.01	102.59	110.46
1	K	328	THR	N-CA-CB	-5.01	102.59	110.46
1	R	328	THR	N-CA-CB	-5.01	102.59	110.46
1	T	328	THR	N-CA-CB	-5.01	102.59	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	328	THR	N-CA-CB	-5.01	102.59	110.46
1	e	328	THR	N-CA-CB	-5.01	102.59	110.46
1	g	328	THR	N-CA-CB	-5.01	102.59	110.46
1	o	328	THR	N-CA-CB	-5.01	102.59	110.46
1	v	328	THR	N-CA-CB	-5.01	102.59	110.46
1	x	328	THR	N-CA-CB	-5.01	102.59	110.46
1	6	328	THR	N-CA-CB	-5.01	102.59	110.46
1	H	337	ASP	N-CA-C	5.01	116.74	111.28
1	I	337	ASP	N-CA-C	5.01	116.74	111.28
1	X	337	ASP	N-CA-C	5.01	116.74	111.28
1	Y	337	ASP	N-CA-C	5.01	116.74	111.28
1	m	337	ASP	N-CA-C	5.01	116.74	111.28
1	n	337	ASP	N-CA-C	5.01	116.74	111.28
1	D	484	ALA	N-CA-C	5.00	117.89	110.48
1	H	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	H	484	ALA	N-CA-C	5.00	117.89	110.48
1	I	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	I	375	ASN	CB-CA-C	5.00	118.83	111.73
1	I	484	ALA	N-CA-C	5.00	117.89	110.48
1	J	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	J	375	ASN	CB-CA-C	5.00	118.83	111.73
1	J	484	ALA	N-CA-C	5.00	117.89	110.48
1	L	484	ALA	N-CA-C	5.00	117.89	110.48
1	S	484	ALA	N-CA-C	5.00	117.89	110.48
1	U	484	ALA	N-CA-C	5.00	117.89	110.48
1	W	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	W	375	ASN	CB-CA-C	5.00	118.83	111.73
1	W	484	ALA	N-CA-C	5.00	117.89	110.48
1	X	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	X	484	ALA	N-CA-C	5.00	117.89	110.48
1	Y	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	Y	375	ASN	CB-CA-C	5.00	118.83	111.73
1	Y	484	ALA	N-CA-C	5.00	117.89	110.48
1	Z	484	ALA	N-CA-C	5.00	117.89	110.48
1	c	484	ALA	N-CA-C	5.00	117.89	110.48
1	h	484	ALA	N-CA-C	5.00	117.89	110.48
1	l	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	l	375	ASN	CB-CA-C	5.00	118.83	111.73
1	l	484	ALA	N-CA-C	5.00	117.89	110.48
1	m	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	m	484	ALA	N-CA-C	5.00	117.89	110.48
1	n	325	ASN	CB-CA-C	-5.00	101.09	109.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	375	ASN	CB-CA-C	5.00	118.83	111.73
1	n	484	ALA	N-CA-C	5.00	117.89	110.48
1	p	484	ALA	N-CA-C	5.00	117.89	110.48
1	w	484	ALA	N-CA-C	5.00	117.89	110.48
1	y	484	ALA	N-CA-C	5.00	117.89	110.48
1	1	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	1	484	ALA	N-CA-C	5.00	117.89	110.48
1	2	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	2	484	ALA	N-CA-C	5.00	117.89	110.48
1	3	325	ASN	CB-CA-C	-5.00	101.09	109.65
1	3	484	ALA	N-CA-C	5.00	117.89	110.48
1	4	484	ALA	N-CA-C	5.00	117.89	110.48
1	7	484	ALA	N-CA-C	5.00	117.89	110.48

There are no chirality outliers.

All (720) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	289	ARG	Sidechain
1	1	298	ARG	Sidechain
1	1	300	ARG	Sidechain
1	1	303	ARG	Sidechain
1	1	397	ARG	Sidechain
1	1	456	ARG	Sidechain
1	1	471	ARG	Sidechain
1	1	483	ARG	Sidechain
1	1	494	ARG	Sidechain
1	1	599	ARG	Sidechain
1	1	710	ARG	Sidechain
1	1	713	ARG	Sidechain
1	2	289	ARG	Sidechain
1	2	298	ARG	Sidechain
1	2	300	ARG	Sidechain
1	2	303	ARG	Sidechain
1	2	397	ARG	Sidechain
1	2	456	ARG	Sidechain
1	2	471	ARG	Sidechain
1	2	483	ARG	Sidechain
1	2	494	ARG	Sidechain
1	2	599	ARG	Sidechain
1	2	710	ARG	Sidechain
1	2	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3	289	ARG	Sidechain
1	3	298	ARG	Sidechain
1	3	300	ARG	Sidechain
1	3	303	ARG	Sidechain
1	3	397	ARG	Sidechain
1	3	456	ARG	Sidechain
1	3	471	ARG	Sidechain
1	3	483	ARG	Sidechain
1	3	494	ARG	Sidechain
1	3	599	ARG	Sidechain
1	3	710	ARG	Sidechain
1	3	713	ARG	Sidechain
1	4	289	ARG	Sidechain
1	4	298	ARG	Sidechain
1	4	300	ARG	Sidechain
1	4	303	ARG	Sidechain
1	4	397	ARG	Sidechain
1	4	456	ARG	Sidechain
1	4	471	ARG	Sidechain
1	4	483	ARG	Sidechain
1	4	494	ARG	Sidechain
1	4	599	ARG	Sidechain
1	4	710	ARG	Sidechain
1	4	713	ARG	Sidechain
1	5	289	ARG	Sidechain
1	5	298	ARG	Sidechain
1	5	300	ARG	Sidechain
1	5	303	ARG	Sidechain
1	5	397	ARG	Sidechain
1	5	456	ARG	Sidechain
1	5	471	ARG	Sidechain
1	5	483	ARG	Sidechain
1	5	494	ARG	Sidechain
1	5	599	ARG	Sidechain
1	5	710	ARG	Sidechain
1	5	713	ARG	Sidechain
1	6	289	ARG	Sidechain
1	6	298	ARG	Sidechain
1	6	300	ARG	Sidechain
1	6	303	ARG	Sidechain
1	6	397	ARG	Sidechain
1	6	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	6	471	ARG	Sidechain
1	6	483	ARG	Sidechain
1	6	494	ARG	Sidechain
1	6	599	ARG	Sidechain
1	6	710	ARG	Sidechain
1	6	713	ARG	Sidechain
1	7	289	ARG	Sidechain
1	7	298	ARG	Sidechain
1	7	300	ARG	Sidechain
1	7	303	ARG	Sidechain
1	7	397	ARG	Sidechain
1	7	456	ARG	Sidechain
1	7	471	ARG	Sidechain
1	7	483	ARG	Sidechain
1	7	494	ARG	Sidechain
1	7	599	ARG	Sidechain
1	7	710	ARG	Sidechain
1	7	713	ARG	Sidechain
1	8	289	ARG	Sidechain
1	8	298	ARG	Sidechain
1	8	300	ARG	Sidechain
1	8	303	ARG	Sidechain
1	8	397	ARG	Sidechain
1	8	456	ARG	Sidechain
1	8	471	ARG	Sidechain
1	8	483	ARG	Sidechain
1	8	494	ARG	Sidechain
1	8	599	ARG	Sidechain
1	8	710	ARG	Sidechain
1	8	713	ARG	Sidechain
1	A	289	ARG	Sidechain
1	A	298	ARG	Sidechain
1	A	300	ARG	Sidechain
1	A	303	ARG	Sidechain
1	A	397	ARG	Sidechain
1	A	456	ARG	Sidechain
1	A	471	ARG	Sidechain
1	A	483	ARG	Sidechain
1	A	494	ARG	Sidechain
1	A	599	ARG	Sidechain
1	A	710	ARG	Sidechain
1	A	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	B	289	ARG	Sidechain
1	B	298	ARG	Sidechain
1	B	300	ARG	Sidechain
1	B	303	ARG	Sidechain
1	B	397	ARG	Sidechain
1	B	456	ARG	Sidechain
1	B	471	ARG	Sidechain
1	B	483	ARG	Sidechain
1	B	494	ARG	Sidechain
1	B	599	ARG	Sidechain
1	B	710	ARG	Sidechain
1	B	713	ARG	Sidechain
1	C	289	ARG	Sidechain
1	C	298	ARG	Sidechain
1	C	300	ARG	Sidechain
1	C	303	ARG	Sidechain
1	C	397	ARG	Sidechain
1	C	456	ARG	Sidechain
1	C	471	ARG	Sidechain
1	C	483	ARG	Sidechain
1	C	494	ARG	Sidechain
1	C	599	ARG	Sidechain
1	C	710	ARG	Sidechain
1	C	713	ARG	Sidechain
1	D	289	ARG	Sidechain
1	D	298	ARG	Sidechain
1	D	300	ARG	Sidechain
1	D	303	ARG	Sidechain
1	D	397	ARG	Sidechain
1	D	456	ARG	Sidechain
1	D	471	ARG	Sidechain
1	D	483	ARG	Sidechain
1	D	494	ARG	Sidechain
1	D	599	ARG	Sidechain
1	D	710	ARG	Sidechain
1	D	713	ARG	Sidechain
1	E	289	ARG	Sidechain
1	E	298	ARG	Sidechain
1	E	300	ARG	Sidechain
1	E	303	ARG	Sidechain
1	E	397	ARG	Sidechain
1	E	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	E	471	ARG	Sidechain
1	E	483	ARG	Sidechain
1	E	494	ARG	Sidechain
1	E	599	ARG	Sidechain
1	E	710	ARG	Sidechain
1	E	713	ARG	Sidechain
1	F	289	ARG	Sidechain
1	F	298	ARG	Sidechain
1	F	300	ARG	Sidechain
1	F	303	ARG	Sidechain
1	F	397	ARG	Sidechain
1	F	456	ARG	Sidechain
1	F	471	ARG	Sidechain
1	F	483	ARG	Sidechain
1	F	494	ARG	Sidechain
1	F	599	ARG	Sidechain
1	F	710	ARG	Sidechain
1	F	713	ARG	Sidechain
1	G	289	ARG	Sidechain
1	G	298	ARG	Sidechain
1	G	300	ARG	Sidechain
1	G	303	ARG	Sidechain
1	G	397	ARG	Sidechain
1	G	456	ARG	Sidechain
1	G	471	ARG	Sidechain
1	G	483	ARG	Sidechain
1	G	494	ARG	Sidechain
1	G	599	ARG	Sidechain
1	G	710	ARG	Sidechain
1	G	713	ARG	Sidechain
1	H	289	ARG	Sidechain
1	H	298	ARG	Sidechain
1	H	300	ARG	Sidechain
1	H	303	ARG	Sidechain
1	H	397	ARG	Sidechain
1	H	456	ARG	Sidechain
1	H	471	ARG	Sidechain
1	H	483	ARG	Sidechain
1	H	494	ARG	Sidechain
1	H	599	ARG	Sidechain
1	H	710	ARG	Sidechain
1	H	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	I	289	ARG	Sidechain
1	I	298	ARG	Sidechain
1	I	300	ARG	Sidechain
1	I	303	ARG	Sidechain
1	I	397	ARG	Sidechain
1	I	456	ARG	Sidechain
1	I	471	ARG	Sidechain
1	I	483	ARG	Sidechain
1	I	494	ARG	Sidechain
1	I	599	ARG	Sidechain
1	I	710	ARG	Sidechain
1	I	713	ARG	Sidechain
1	J	289	ARG	Sidechain
1	J	298	ARG	Sidechain
1	J	300	ARG	Sidechain
1	J	303	ARG	Sidechain
1	J	397	ARG	Sidechain
1	J	456	ARG	Sidechain
1	J	471	ARG	Sidechain
1	J	483	ARG	Sidechain
1	J	494	ARG	Sidechain
1	J	599	ARG	Sidechain
1	J	710	ARG	Sidechain
1	J	713	ARG	Sidechain
1	K	289	ARG	Sidechain
1	K	298	ARG	Sidechain
1	K	300	ARG	Sidechain
1	K	303	ARG	Sidechain
1	K	397	ARG	Sidechain
1	K	456	ARG	Sidechain
1	K	471	ARG	Sidechain
1	K	483	ARG	Sidechain
1	K	494	ARG	Sidechain
1	K	599	ARG	Sidechain
1	K	710	ARG	Sidechain
1	K	713	ARG	Sidechain
1	L	289	ARG	Sidechain
1	L	298	ARG	Sidechain
1	L	300	ARG	Sidechain
1	L	303	ARG	Sidechain
1	L	397	ARG	Sidechain
1	L	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	L	471	ARG	Sidechain
1	L	483	ARG	Sidechain
1	L	494	ARG	Sidechain
1	L	599	ARG	Sidechain
1	L	710	ARG	Sidechain
1	L	713	ARG	Sidechain
1	M	289	ARG	Sidechain
1	M	298	ARG	Sidechain
1	M	300	ARG	Sidechain
1	M	303	ARG	Sidechain
1	M	397	ARG	Sidechain
1	M	456	ARG	Sidechain
1	M	471	ARG	Sidechain
1	M	483	ARG	Sidechain
1	M	494	ARG	Sidechain
1	M	599	ARG	Sidechain
1	M	710	ARG	Sidechain
1	M	713	ARG	Sidechain
1	N	289	ARG	Sidechain
1	N	298	ARG	Sidechain
1	N	300	ARG	Sidechain
1	N	303	ARG	Sidechain
1	N	397	ARG	Sidechain
1	N	456	ARG	Sidechain
1	N	471	ARG	Sidechain
1	N	483	ARG	Sidechain
1	N	494	ARG	Sidechain
1	N	599	ARG	Sidechain
1	N	710	ARG	Sidechain
1	N	713	ARG	Sidechain
1	O	289	ARG	Sidechain
1	O	298	ARG	Sidechain
1	O	300	ARG	Sidechain
1	O	303	ARG	Sidechain
1	O	397	ARG	Sidechain
1	O	456	ARG	Sidechain
1	O	471	ARG	Sidechain
1	O	483	ARG	Sidechain
1	O	494	ARG	Sidechain
1	O	599	ARG	Sidechain
1	O	710	ARG	Sidechain
1	O	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	P	289	ARG	Sidechain
1	P	298	ARG	Sidechain
1	P	300	ARG	Sidechain
1	P	303	ARG	Sidechain
1	P	397	ARG	Sidechain
1	P	456	ARG	Sidechain
1	P	471	ARG	Sidechain
1	P	483	ARG	Sidechain
1	P	494	ARG	Sidechain
1	P	599	ARG	Sidechain
1	P	710	ARG	Sidechain
1	P	713	ARG	Sidechain
1	Q	289	ARG	Sidechain
1	Q	298	ARG	Sidechain
1	Q	300	ARG	Sidechain
1	Q	303	ARG	Sidechain
1	Q	397	ARG	Sidechain
1	Q	456	ARG	Sidechain
1	Q	471	ARG	Sidechain
1	Q	483	ARG	Sidechain
1	Q	494	ARG	Sidechain
1	Q	599	ARG	Sidechain
1	Q	710	ARG	Sidechain
1	Q	713	ARG	Sidechain
1	R	289	ARG	Sidechain
1	R	298	ARG	Sidechain
1	R	300	ARG	Sidechain
1	R	303	ARG	Sidechain
1	R	397	ARG	Sidechain
1	R	456	ARG	Sidechain
1	R	471	ARG	Sidechain
1	R	483	ARG	Sidechain
1	R	494	ARG	Sidechain
1	R	599	ARG	Sidechain
1	R	710	ARG	Sidechain
1	R	713	ARG	Sidechain
1	S	289	ARG	Sidechain
1	S	298	ARG	Sidechain
1	S	300	ARG	Sidechain
1	S	303	ARG	Sidechain
1	S	397	ARG	Sidechain
1	S	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	S	471	ARG	Sidechain
1	S	483	ARG	Sidechain
1	S	494	ARG	Sidechain
1	S	599	ARG	Sidechain
1	S	710	ARG	Sidechain
1	S	713	ARG	Sidechain
1	T	289	ARG	Sidechain
1	T	298	ARG	Sidechain
1	T	300	ARG	Sidechain
1	T	303	ARG	Sidechain
1	T	397	ARG	Sidechain
1	T	456	ARG	Sidechain
1	T	471	ARG	Sidechain
1	T	483	ARG	Sidechain
1	T	494	ARG	Sidechain
1	T	599	ARG	Sidechain
1	T	710	ARG	Sidechain
1	T	713	ARG	Sidechain
1	U	289	ARG	Sidechain
1	U	298	ARG	Sidechain
1	U	300	ARG	Sidechain
1	U	303	ARG	Sidechain
1	U	397	ARG	Sidechain
1	U	456	ARG	Sidechain
1	U	471	ARG	Sidechain
1	U	483	ARG	Sidechain
1	U	494	ARG	Sidechain
1	U	599	ARG	Sidechain
1	U	710	ARG	Sidechain
1	U	713	ARG	Sidechain
1	V	289	ARG	Sidechain
1	V	298	ARG	Sidechain
1	V	300	ARG	Sidechain
1	V	303	ARG	Sidechain
1	V	397	ARG	Sidechain
1	V	456	ARG	Sidechain
1	V	471	ARG	Sidechain
1	V	483	ARG	Sidechain
1	V	494	ARG	Sidechain
1	V	599	ARG	Sidechain
1	V	710	ARG	Sidechain
1	V	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	W	289	ARG	Sidechain
1	W	298	ARG	Sidechain
1	W	300	ARG	Sidechain
1	W	303	ARG	Sidechain
1	W	397	ARG	Sidechain
1	W	456	ARG	Sidechain
1	W	471	ARG	Sidechain
1	W	483	ARG	Sidechain
1	W	494	ARG	Sidechain
1	W	599	ARG	Sidechain
1	W	710	ARG	Sidechain
1	W	713	ARG	Sidechain
1	X	289	ARG	Sidechain
1	X	298	ARG	Sidechain
1	X	300	ARG	Sidechain
1	X	303	ARG	Sidechain
1	X	397	ARG	Sidechain
1	X	456	ARG	Sidechain
1	X	471	ARG	Sidechain
1	X	483	ARG	Sidechain
1	X	494	ARG	Sidechain
1	X	599	ARG	Sidechain
1	X	710	ARG	Sidechain
1	X	713	ARG	Sidechain
1	Y	289	ARG	Sidechain
1	Y	298	ARG	Sidechain
1	Y	300	ARG	Sidechain
1	Y	303	ARG	Sidechain
1	Y	397	ARG	Sidechain
1	Y	456	ARG	Sidechain
1	Y	471	ARG	Sidechain
1	Y	483	ARG	Sidechain
1	Y	494	ARG	Sidechain
1	Y	599	ARG	Sidechain
1	Y	710	ARG	Sidechain
1	Y	713	ARG	Sidechain
1	Z	289	ARG	Sidechain
1	Z	298	ARG	Sidechain
1	Z	300	ARG	Sidechain
1	Z	303	ARG	Sidechain
1	Z	397	ARG	Sidechain
1	Z	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	Z	471	ARG	Sidechain
1	Z	483	ARG	Sidechain
1	Z	494	ARG	Sidechain
1	Z	599	ARG	Sidechain
1	Z	710	ARG	Sidechain
1	Z	713	ARG	Sidechain
1	a	289	ARG	Sidechain
1	a	298	ARG	Sidechain
1	a	300	ARG	Sidechain
1	a	303	ARG	Sidechain
1	a	397	ARG	Sidechain
1	a	456	ARG	Sidechain
1	a	471	ARG	Sidechain
1	a	483	ARG	Sidechain
1	a	494	ARG	Sidechain
1	a	599	ARG	Sidechain
1	a	710	ARG	Sidechain
1	a	713	ARG	Sidechain
1	b	289	ARG	Sidechain
1	b	298	ARG	Sidechain
1	b	300	ARG	Sidechain
1	b	303	ARG	Sidechain
1	b	397	ARG	Sidechain
1	b	456	ARG	Sidechain
1	b	471	ARG	Sidechain
1	b	483	ARG	Sidechain
1	b	494	ARG	Sidechain
1	b	599	ARG	Sidechain
1	b	710	ARG	Sidechain
1	b	713	ARG	Sidechain
1	c	289	ARG	Sidechain
1	c	298	ARG	Sidechain
1	c	300	ARG	Sidechain
1	c	303	ARG	Sidechain
1	c	397	ARG	Sidechain
1	c	456	ARG	Sidechain
1	c	471	ARG	Sidechain
1	c	483	ARG	Sidechain
1	c	494	ARG	Sidechain
1	c	599	ARG	Sidechain
1	c	710	ARG	Sidechain
1	c	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	d	289	ARG	Sidechain
1	d	298	ARG	Sidechain
1	d	300	ARG	Sidechain
1	d	303	ARG	Sidechain
1	d	397	ARG	Sidechain
1	d	456	ARG	Sidechain
1	d	471	ARG	Sidechain
1	d	483	ARG	Sidechain
1	d	494	ARG	Sidechain
1	d	599	ARG	Sidechain
1	d	710	ARG	Sidechain
1	d	713	ARG	Sidechain
1	e	289	ARG	Sidechain
1	e	298	ARG	Sidechain
1	e	300	ARG	Sidechain
1	e	303	ARG	Sidechain
1	e	397	ARG	Sidechain
1	e	456	ARG	Sidechain
1	e	471	ARG	Sidechain
1	e	483	ARG	Sidechain
1	e	494	ARG	Sidechain
1	e	599	ARG	Sidechain
1	e	710	ARG	Sidechain
1	e	713	ARG	Sidechain
1	f	289	ARG	Sidechain
1	f	298	ARG	Sidechain
1	f	300	ARG	Sidechain
1	f	303	ARG	Sidechain
1	f	397	ARG	Sidechain
1	f	456	ARG	Sidechain
1	f	471	ARG	Sidechain
1	f	483	ARG	Sidechain
1	f	494	ARG	Sidechain
1	f	599	ARG	Sidechain
1	f	710	ARG	Sidechain
1	f	713	ARG	Sidechain
1	g	289	ARG	Sidechain
1	g	298	ARG	Sidechain
1	g	300	ARG	Sidechain
1	g	303	ARG	Sidechain
1	g	397	ARG	Sidechain
1	g	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	g	471	ARG	Sidechain
1	g	483	ARG	Sidechain
1	g	494	ARG	Sidechain
1	g	599	ARG	Sidechain
1	g	710	ARG	Sidechain
1	g	713	ARG	Sidechain
1	h	289	ARG	Sidechain
1	h	298	ARG	Sidechain
1	h	300	ARG	Sidechain
1	h	303	ARG	Sidechain
1	h	397	ARG	Sidechain
1	h	456	ARG	Sidechain
1	h	471	ARG	Sidechain
1	h	483	ARG	Sidechain
1	h	494	ARG	Sidechain
1	h	599	ARG	Sidechain
1	h	710	ARG	Sidechain
1	h	713	ARG	Sidechain
1	i	289	ARG	Sidechain
1	i	298	ARG	Sidechain
1	i	300	ARG	Sidechain
1	i	303	ARG	Sidechain
1	i	397	ARG	Sidechain
1	i	456	ARG	Sidechain
1	i	471	ARG	Sidechain
1	i	483	ARG	Sidechain
1	i	494	ARG	Sidechain
1	i	599	ARG	Sidechain
1	i	710	ARG	Sidechain
1	i	713	ARG	Sidechain
1	j	289	ARG	Sidechain
1	j	298	ARG	Sidechain
1	j	300	ARG	Sidechain
1	j	303	ARG	Sidechain
1	j	397	ARG	Sidechain
1	j	456	ARG	Sidechain
1	j	471	ARG	Sidechain
1	j	483	ARG	Sidechain
1	j	494	ARG	Sidechain
1	j	599	ARG	Sidechain
1	j	710	ARG	Sidechain
1	j	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	k	289	ARG	Sidechain
1	k	298	ARG	Sidechain
1	k	300	ARG	Sidechain
1	k	303	ARG	Sidechain
1	k	397	ARG	Sidechain
1	k	456	ARG	Sidechain
1	k	471	ARG	Sidechain
1	k	483	ARG	Sidechain
1	k	494	ARG	Sidechain
1	k	599	ARG	Sidechain
1	k	710	ARG	Sidechain
1	k	713	ARG	Sidechain
1	l	289	ARG	Sidechain
1	l	298	ARG	Sidechain
1	l	300	ARG	Sidechain
1	l	303	ARG	Sidechain
1	l	397	ARG	Sidechain
1	l	456	ARG	Sidechain
1	l	471	ARG	Sidechain
1	l	483	ARG	Sidechain
1	l	494	ARG	Sidechain
1	l	599	ARG	Sidechain
1	l	710	ARG	Sidechain
1	l	713	ARG	Sidechain
1	m	289	ARG	Sidechain
1	m	298	ARG	Sidechain
1	m	300	ARG	Sidechain
1	m	303	ARG	Sidechain
1	m	397	ARG	Sidechain
1	m	456	ARG	Sidechain
1	m	471	ARG	Sidechain
1	m	483	ARG	Sidechain
1	m	494	ARG	Sidechain
1	m	599	ARG	Sidechain
1	m	710	ARG	Sidechain
1	m	713	ARG	Sidechain
1	n	289	ARG	Sidechain
1	n	298	ARG	Sidechain
1	n	300	ARG	Sidechain
1	n	303	ARG	Sidechain
1	n	397	ARG	Sidechain
1	n	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	n	471	ARG	Sidechain
1	n	483	ARG	Sidechain
1	n	494	ARG	Sidechain
1	n	599	ARG	Sidechain
1	n	710	ARG	Sidechain
1	n	713	ARG	Sidechain
1	o	289	ARG	Sidechain
1	o	298	ARG	Sidechain
1	o	300	ARG	Sidechain
1	o	303	ARG	Sidechain
1	o	397	ARG	Sidechain
1	o	456	ARG	Sidechain
1	o	471	ARG	Sidechain
1	o	483	ARG	Sidechain
1	o	494	ARG	Sidechain
1	o	599	ARG	Sidechain
1	o	710	ARG	Sidechain
1	o	713	ARG	Sidechain
1	p	289	ARG	Sidechain
1	p	298	ARG	Sidechain
1	p	300	ARG	Sidechain
1	p	303	ARG	Sidechain
1	p	397	ARG	Sidechain
1	p	456	ARG	Sidechain
1	p	471	ARG	Sidechain
1	p	483	ARG	Sidechain
1	p	494	ARG	Sidechain
1	p	599	ARG	Sidechain
1	p	710	ARG	Sidechain
1	p	713	ARG	Sidechain
1	q	289	ARG	Sidechain
1	q	298	ARG	Sidechain
1	q	300	ARG	Sidechain
1	q	303	ARG	Sidechain
1	q	397	ARG	Sidechain
1	q	456	ARG	Sidechain
1	q	471	ARG	Sidechain
1	q	483	ARG	Sidechain
1	q	494	ARG	Sidechain
1	q	599	ARG	Sidechain
1	q	710	ARG	Sidechain
1	q	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	r	289	ARG	Sidechain
1	r	298	ARG	Sidechain
1	r	300	ARG	Sidechain
1	r	303	ARG	Sidechain
1	r	397	ARG	Sidechain
1	r	456	ARG	Sidechain
1	r	471	ARG	Sidechain
1	r	483	ARG	Sidechain
1	r	494	ARG	Sidechain
1	r	599	ARG	Sidechain
1	r	710	ARG	Sidechain
1	r	713	ARG	Sidechain
1	s	289	ARG	Sidechain
1	s	298	ARG	Sidechain
1	s	300	ARG	Sidechain
1	s	303	ARG	Sidechain
1	s	397	ARG	Sidechain
1	s	456	ARG	Sidechain
1	s	471	ARG	Sidechain
1	s	483	ARG	Sidechain
1	s	494	ARG	Sidechain
1	s	599	ARG	Sidechain
1	s	710	ARG	Sidechain
1	s	713	ARG	Sidechain
1	t	289	ARG	Sidechain
1	t	298	ARG	Sidechain
1	t	300	ARG	Sidechain
1	t	303	ARG	Sidechain
1	t	397	ARG	Sidechain
1	t	456	ARG	Sidechain
1	t	471	ARG	Sidechain
1	t	483	ARG	Sidechain
1	t	494	ARG	Sidechain
1	t	599	ARG	Sidechain
1	t	710	ARG	Sidechain
1	t	713	ARG	Sidechain
1	u	289	ARG	Sidechain
1	u	298	ARG	Sidechain
1	u	300	ARG	Sidechain
1	u	303	ARG	Sidechain
1	u	397	ARG	Sidechain
1	u	456	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	u	471	ARG	Sidechain
1	u	483	ARG	Sidechain
1	u	494	ARG	Sidechain
1	u	599	ARG	Sidechain
1	u	710	ARG	Sidechain
1	u	713	ARG	Sidechain
1	v	289	ARG	Sidechain
1	v	298	ARG	Sidechain
1	v	300	ARG	Sidechain
1	v	303	ARG	Sidechain
1	v	397	ARG	Sidechain
1	v	456	ARG	Sidechain
1	v	471	ARG	Sidechain
1	v	483	ARG	Sidechain
1	v	494	ARG	Sidechain
1	v	599	ARG	Sidechain
1	v	710	ARG	Sidechain
1	v	713	ARG	Sidechain
1	w	289	ARG	Sidechain
1	w	298	ARG	Sidechain
1	w	300	ARG	Sidechain
1	w	303	ARG	Sidechain
1	w	397	ARG	Sidechain
1	w	456	ARG	Sidechain
1	w	471	ARG	Sidechain
1	w	483	ARG	Sidechain
1	w	494	ARG	Sidechain
1	w	599	ARG	Sidechain
1	w	710	ARG	Sidechain
1	w	713	ARG	Sidechain
1	x	289	ARG	Sidechain
1	x	298	ARG	Sidechain
1	x	300	ARG	Sidechain
1	x	303	ARG	Sidechain
1	x	397	ARG	Sidechain
1	x	456	ARG	Sidechain
1	x	471	ARG	Sidechain
1	x	483	ARG	Sidechain
1	x	494	ARG	Sidechain
1	x	599	ARG	Sidechain
1	x	710	ARG	Sidechain
1	x	713	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	y	289	ARG	Sidechain
1	y	298	ARG	Sidechain
1	y	300	ARG	Sidechain
1	y	303	ARG	Sidechain
1	y	397	ARG	Sidechain
1	y	456	ARG	Sidechain
1	y	471	ARG	Sidechain
1	y	483	ARG	Sidechain
1	y	494	ARG	Sidechain
1	y	599	ARG	Sidechain
1	y	710	ARG	Sidechain
1	y	713	ARG	Sidechain
1	z	289	ARG	Sidechain
1	z	298	ARG	Sidechain
1	z	300	ARG	Sidechain
1	z	303	ARG	Sidechain
1	z	397	ARG	Sidechain
1	z	456	ARG	Sidechain
1	z	471	ARG	Sidechain
1	z	483	ARG	Sidechain
1	z	494	ARG	Sidechain
1	z	599	ARG	Sidechain
1	z	710	ARG	Sidechain
1	z	713	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4110	0	3856	93	0
1	2	4110	0	3856	96	0
1	3	4110	0	3856	95	0
1	4	4110	0	3856	94	0
1	5	4110	0	3856	92	0
1	6	4110	0	3856	93	0
1	7	4110	0	3856	95	0
1	8	4110	0	3856	93	0
1	A	4110	0	3856	98	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	4110	0	3856	95	0
1	C	4110	0	3856	94	0
1	D	4110	0	3856	94	0
1	E	4110	0	3856	94	0
1	F	4110	0	3856	98	0
1	G	4110	0	3856	92	0
1	H	4110	0	3856	99	0
1	I	4110	0	3856	98	0
1	J	4110	0	3856	95	0
1	K	4110	0	3856	98	0
1	L	4110	0	3856	92	0
1	M	4110	0	3856	95	0
1	N	4110	0	3856	97	0
1	O	4110	0	3856	93	0
1	P	4110	0	3856	93	0
1	Q	4110	0	3856	95	0
1	R	4110	0	3856	97	0
1	S	4110	0	3856	93	0
1	T	4110	0	3856	95	0
1	U	4110	0	3856	92	0
1	V	4110	0	3856	95	0
1	W	4110	0	3856	97	0
1	X	4110	0	3856	92	0
1	Y	4110	0	3856	96	0
1	Z	4110	0	3856	93	0
1	a	4110	0	3856	93	0
1	b	4110	0	3856	98	0
1	c	4110	0	3856	93	0
1	d	4110	0	3856	93	0
1	e	4110	0	3856	92	0
1	f	4110	0	3856	95	0
1	g	4110	0	3856	95	0
1	h	4110	0	3856	93	0
1	i	4110	0	3856	97	0
1	j	4110	0	3856	95	0
1	k	4110	0	3856	97	0
1	l	4110	0	3856	96	0
1	m	4110	0	3856	94	0
1	n	4110	0	3856	97	0
1	o	4110	0	3856	95	0
1	p	4110	0	3856	98	0
1	q	4110	0	3856	97	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	r	4110	0	3856	95	0
1	s	4110	0	3856	97	0
1	t	4110	0	3856	96	0
1	u	4110	0	3856	96	0
1	v	4110	0	3856	95	0
1	w	4110	0	3856	98	0
1	x	4110	0	3856	97	0
1	y	4110	0	3856	92	0
1	z	4110	0	3856	95	0
All	All	246600	0	231360	3831	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 8.

All (3831) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:GLN:HG2	1:g:328:THR:CG2	1.84	1.08
1:I:328:THR:CG2	1:4:310:GLN:HG2	1.84	1.08
1:T:328:THR:CG2	1:z:310:GLN:HG2	1.84	1.08
1:V:328:THR:CG2	1:X:310:GLN:HG2	1.84	1.08
1:W:328:THR:CG2	1:c:310:GLN:HG2	1.84	1.08
1:y:310:GLN:HG2	1:3:328:THR:CG2	1.84	1.08
1:D:310:GLN:HG2	1:l:328:THR:CG2	1.84	1.07
1:E:310:GLN:HG2	1:c:328:THR:CG2	1.84	1.07
1:I:310:GLN:HG2	1:M:328:THR:CG2	1.84	1.07
1:J:310:GLN:HG2	1:f:328:THR:CG2	1.84	1.07
1:P:310:GLN:HG2	1:4:328:THR:CG2	1.84	1.07
1:Q:328:THR:CG2	1:W:310:GLN:HG2	1.84	1.07
1:G:310:GLN:HG2	1:L:328:THR:CG2	1.84	1.07
1:O:310:GLN:HG2	1:S:328:THR:CG2	1.84	1.07
1:i:328:THR:CG2	1:o:310:GLN:HG2	1.84	1.07
1:t:328:THR:CG2	1:v:310:GLN:HG2	1.84	1.07
1:a:310:GLN:HG2	1:e:328:THR:CG2	1.84	1.07
1:C:328:THR:CG2	1:f:310:GLN:HG2	1.84	1.06
1:V:310:GLN:HG2	1:x:328:THR:CG2	1.84	1.06
1:g:310:GLN:HG2	1:k:328:THR:CG2	1.84	1.06
1:k:310:GLN:HG2	1:p:328:THR:CG2	1.84	1.06
1:m:310:GLN:HG2	1:q:328:THR:CG2	1.84	1.06
1:s:310:GLN:HG2	1:w:328:THR:CG2	1.84	1.06
1:J:328:THR:CG2	1:L:310:GLN:HG2	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:310:GLN:HG2	1:X:328:THR:CG2	1.84	1.06
1:T:310:GLN:HG2	1:s:328:THR:CG2	1.84	1.06
1:6:328:THR:CG2	1:8:310:GLN:HG2	1.84	1.06
1:H:310:GLN:HG2	1:5:328:THR:CG2	1.84	1.06
1:K:328:THR:CG2	1:Q:310:GLN:HG2	1.84	1.06
1:M:310:GLN:HG2	1:R:328:THR:CG2	1.84	1.06
1:U:310:GLN:HG2	1:Y:328:THR:CG2	1.84	1.06
1:U:328:THR:CG2	1:r:310:GLN:HG2	1.84	1.06
1:Y:310:GLN:HG2	1:d:328:THR:CG2	1.84	1.06
1:a:328:THR:CG2	1:l:310:GLN:HG2	1.84	1.06
1:h:328:THR:CG2	1:j:310:GLN:HG2	1.84	1.06
1:u:328:THR:CG2	1:1:310:GLN:HG2	1.84	1.06
1:O:328:THR:CG2	1:x:310:GLN:HG2	1.84	1.06
1:b:328:THR:CG2	1:d:310:GLN:HG2	1.84	1.06
1:3:310:GLN:HG2	1:8:328:THR:CG2	1.84	1.06
1:A:328:THR:CG2	1:5:310:GLN:HG2	1.84	1.06
1:C:310:GLN:HG2	1:G:328:THR:CG2	1.84	1.06
1:D:328:THR:CG2	1:F:310:GLN:HG2	1.84	1.06
1:F:328:THR:CG2	1:e:310:GLN:HG2	1.84	1.06
1:H:328:THR:CG2	1:h:310:GLN:HG2	1.84	1.06
1:N:310:GLN:HG2	1:y:328:THR:CG2	1.84	1.06
1:N:328:THR:CG2	1:6:310:GLN:HG2	1.84	1.06
1:Z:310:GLN:HG2	1:m:328:THR:CG2	1.84	1.06
1:b:310:GLN:HG2	1:r:328:THR:CG2	1.84	1.06
1:q:310:GLN:HG2	1:v:328:THR:CG2	1.84	1.06
1:A:310:GLN:HG2	1:j:328:THR:CG2	1.84	1.05
1:Z:310:GLN:HG2	1:m:328:THR:HG22	1.38	1.05
1:i:310:GLN:HG2	1:7:328:THR:CG2	1.84	1.05
1:o:328:THR:CG2	1:u:310:GLN:HG2	1.84	1.05
1:z:328:THR:CG2	1:2:310:GLN:HG2	1.84	1.05
1:1:328:THR:CG2	1:7:310:GLN:HG2	1.84	1.05
1:B:328:THR:CG2	1:n:310:GLN:HG2	1.84	1.05
1:F:328:THR:HG22	1:e:310:GLN:HG2	1.39	1.05
1:H:310:GLN:HG2	1:5:328:THR:HG22	1.38	1.05
1:Y:310:GLN:HG2	1:d:328:THR:HG22	1.38	1.05
1:Z:328:THR:CG2	1:t:310:GLN:HG2	1.84	1.05
1:a:328:THR:HG22	1:l:310:GLN:HG2	1.39	1.05
1:n:328:THR:CG2	1:p:310:GLN:HG2	1.84	1.05
1:w:310:GLN:HG2	1:2:328:THR:CG2	1.84	1.05
1:1:328:THR:HG22	1:7:310:GLN:HG2	1.38	1.05
1:3:310:GLN:HG2	1:8:328:THR:HG22	1.39	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:328:THR:HG22	1:5:310:GLN:HG2	1.38	1.05
1:E:328:THR:CG2	1:K:310:GLN:HG2	1.84	1.05
1:N:328:THR:HG22	1:6:310:GLN:HG2	1.39	1.05
1:Z:328:THR:HG22	1:t:310:GLN:HG2	1.39	1.05
1:b:328:THR:HG22	1:d:310:GLN:HG2	1.38	1.05
1:P:328:THR:CG2	1:R:310:GLN:HG2	1.84	1.05
1:i:310:GLN:HG2	1:7:328:THR:HG22	1.39	1.05
1:D:328:THR:HG22	1:F:310:GLN:HG2	1.39	1.05
1:6:328:THR:HG22	1:8:310:GLN:HG2	1.38	1.05
1:N:310:GLN:HG2	1:y:328:THR:HG22	1.39	1.04
1:a:310:GLN:HG2	1:e:328:THR:HG22	1.38	1.04
1:P:328:THR:HG22	1:R:310:GLN:HG2	1.39	1.04
1:E:328:THR:HG22	1:K:310:GLN:HG2	1.39	1.04
1:I:328:THR:HG22	1:4:310:GLN:HG2	1.38	1.04
1:G:310:GLN:HG2	1:L:328:THR:HG22	1.39	1.04
1:J:310:GLN:HG2	1:f:328:THR:HG22	1.39	1.04
1:O:310:GLN:HG2	1:S:328:THR:HG22	1.39	1.04
1:V:328:THR:HG22	1:X:310:GLN:HG2	1.38	1.04
1:W:328:THR:HG22	1:c:310:GLN:HG2	1.38	1.04
1:7:589:GLU:HG2	1:8:589:GLU:HG3	1.40	1.04
1:B:589:GLU:HG3	1:D:589:GLU:HG2	1.40	1.03
1:E:589:GLU:HG2	1:F:589:GLU:HG3	1.40	1.03
1:I:310:GLN:HG2	1:M:328:THR:HG22	1.38	1.03
1:K:328:THR:HG22	1:Q:310:GLN:HG2	1.38	1.03
1:K:589:GLU:HG3	1:M:589:GLU:HG2	1.40	1.03
1:Z:589:GLU:HG2	1:a:589:GLU:HG3	1.40	1.03
1:c:589:GLU:HG3	1:e:589:GLU:HG2	1.40	1.03
1:c:589:GLU:HG2	1:d:589:GLU:HG3	1.40	1.03
1:h:328:THR:HG22	1:j:310:GLN:HG2	1.39	1.03
1:4:589:GLU:HG2	1:5:589:GLU:HG3	1.40	1.03
1:4:589:GLU:HG3	1:6:589:GLU:HG2	1.40	1.03
1:E:589:GLU:HG3	1:G:589:GLU:HG2	1.40	1.03
1:H:589:GLU:HG2	1:I:589:GLU:HG3	1.40	1.03
1:N:589:GLU:HG3	1:P:589:GLU:HG2	1.40	1.03
1:Q:328:THR:HG22	1:W:310:GLN:HG2	1.39	1.03
1:Q:589:GLU:HG2	1:R:589:GLU:HG3	1.40	1.03
1:U:328:THR:HG22	1:r:310:GLN:HG2	1.39	1.03
1:W:589:GLU:HG3	1:Y:589:GLU:HG2	1.40	1.03
1:o:589:GLU:HG2	1:p:589:GLU:HG3	1.40	1.03
1:v:589:GLU:HG2	1:w:589:GLU:HG3	1.40	1.03
1:y:589:GLU:HG2	1:z:589:GLU:HG3	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:328:THR:HG22	1:h:310:GLN:HG2	1.38	1.03
1:M:310:GLN:HG2	1:R:328:THR:HG22	1.38	1.03
1:O:589:GLU:HG2	1:P:589:GLU:HG3	1.40	1.03
1:j:589:GLU:HG2	1:k:589:GLU:HG3	1.40	1.03
1:r:589:GLU:HG2	1:s:589:GLU:HG3	1.40	1.03
1:5:589:GLU:HG2	1:6:589:GLU:HG3	1.40	1.03
1:K:589:GLU:HG2	1:L:589:GLU:HG3	1.40	1.03
1:R:589:GLU:HG2	1:S:589:GLU:HG3	1.40	1.03
1:d:589:GLU:HG2	1:e:589:GLU:HG3	1.40	1.03
1:T:589:GLU:HG2	1:U:589:GLU:HG3	1.40	1.03
1:U:310:GLN:HG2	1:Y:328:THR:HG22	1.38	1.02
1:X:589:GLU:HG2	1:Y:589:GLU:HG3	1.40	1.02
1:f:589:GLU:HG2	1:g:589:GLU:HG3	1.40	1.02
1:g:589:GLU:HG2	1:h:589:GLU:HG3	1.40	1.02
1:k:310:GLN:HG2	1:p:328:THR:HG22	1.39	1.02
1:o:328:THR:HG22	1:u:310:GLN:HG2	1.38	1.02
1:q:310:GLN:HG2	1:v:328:THR:HG22	1.38	1.02
1:s:310:GLN:HG2	1:w:328:THR:HG22	1.39	1.02
1:u:589:GLU:HG3	1:w:589:GLU:HG2	1.40	1.02
1:p:589:GLU:HG2	1:q:589:GLU:HG3	1.40	1.02
1:H:589:GLU:HG3	1:J:589:GLU:HG2	1.40	1.02
1:T:589:GLU:HG3	1:V:589:GLU:HG2	1.40	1.02
1:C:328:THR:HG22	1:f:310:GLN:HG2	1.38	1.02
1:J:328:THR:HG22	1:L:310:GLN:HG2	1.38	1.02
1:O:328:THR:HG22	1:x:310:GLN:HG2	1.39	1.02
1:V:310:GLN:HG2	1:x:328:THR:HG22	1.38	1.01
1:1:589:GLU:HG2	1:2:589:GLU:HG3	1.40	1.01
1:C:310:GLN:HG2	1:G:328:THR:HG22	1.39	1.01
1:S:310:GLN:HG2	1:X:328:THR:HG22	1.38	1.01
1:x:589:GLU:HG3	1:z:589:GLU:HG2	1.40	1.01
1:A:310:GLN:HG2	1:j:328:THR:HG22	1.39	1.01
1:B:589:GLU:HG2	1:C:589:GLU:HG3	1.40	1.01
1:D:310:GLN:HG2	1:l:328:THR:HG22	1.38	1.01
1:I:589:GLU:HG2	1:J:589:GLU:HG3	1.40	1.01
1:L:589:GLU:HG2	1:M:589:GLU:HG3	1.40	1.01
1:b:310:GLN:HG2	1:r:328:THR:HG22	1.39	1.01
1:i:589:GLU:HG2	1:j:589:GLU:HG3	1.40	1.01
1:m:589:GLU:HG2	1:n:589:GLU:HG3	1.40	1.01
1:r:589:GLU:HG3	1:t:589:GLU:HG2	1.40	1.01
1:y:310:GLN:HG2	1:3:328:THR:HG22	1.38	1.01
1:C:589:GLU:HG2	1:D:589:GLU:HG3	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:589:GLU:HG2	1:X:589:GLU:HG3	1.40	1.01
1:E:310:GLN:HG2	1:c:328:THR:HG22	1.39	1.01
1:P:310:GLN:HG2	1:4:328:THR:HG22	1.39	1.01
1:Q:589:GLU:HG3	1:S:589:GLU:HG2	1.40	1.01
1:x:589:GLU:HG2	1:y:589:GLU:HG3	1.40	1.01
1:B:328:THR:HG22	1:n:310:GLN:HG2	1.38	1.00
1:T:310:GLN:HG2	1:s:328:THR:HG22	1.39	1.00
1:T:328:THR:HG22	1:z:310:GLN:HG2	1.38	1.00
1:i:328:THR:HG22	1:o:310:GLN:HG2	1.39	1.00
1:z:328:THR:HG22	1:2:310:GLN:HG2	1.39	1.00
1:B:310:GLN:HG2	1:g:328:THR:HG22	1.38	1.00
1:g:310:GLN:HG2	1:k:328:THR:HG22	1.39	1.00
1:w:310:GLN:HG2	1:2:328:THR:HG22	1.38	1.00
1:n:328:THR:HG22	1:p:310:GLN:HG2	1.38	1.00
1:t:328:THR:HG22	1:v:310:GLN:HG2	1.39	1.00
1:u:589:GLU:HG2	1:v:589:GLU:HG3	1.40	1.00
1:A:589:GLU:HG2	1:7:589:GLU:HG3	1.40	1.00
1:Z:589:GLU:HG3	1:b:589:GLU:HG2	1.40	1.00
1:o:589:GLU:HG3	1:q:589:GLU:HG2	1.40	1.00
1:l:589:GLU:HG2	1:m:589:GLU:HG3	1.40	0.99
1:m:310:GLN:HG2	1:q:328:THR:HG22	1.38	0.99
1:A:589:GLU:HG3	1:8:589:GLU:HG2	1.40	0.99
1:a:589:GLU:HG2	1:b:589:GLU:HG3	1.40	0.99
1:1:589:GLU:HG3	1:3:589:GLU:HG2	1.40	0.99
1:f:589:GLU:HG3	1:h:589:GLU:HG2	1.40	0.99
1:F:589:GLU:HG2	1:G:589:GLU:HG3	1.40	0.99
1:U:589:GLU:HG2	1:V:589:GLU:HG3	1.40	0.99
1:u:328:THR:HG22	1:1:310:GLN:HG2	1.39	0.99
1:2:589:GLU:HG2	1:3:589:GLU:HG3	1.40	0.99
1:N:589:GLU:HG2	1:O:589:GLU:HG3	1.40	0.99
1:l:589:GLU:HG3	1:n:589:GLU:HG2	1.40	0.99
1:i:589:GLU:HG3	1:k:589:GLU:HG2	1.40	0.98
1:s:589:GLU:HG2	1:t:589:GLU:HG3	1.40	0.98
1:c:441:THR:HG21	1:d:483:ARG:O	1.70	0.92
1:4:441:THR:HG21	1:5:483:ARG:O	1.70	0.92
1:T:483:ARG:O	1:V:441:THR:HG21	1.70	0.92
1:U:441:THR:HG21	1:V:483:ARG:O	1.70	0.92
1:E:483:ARG:O	1:G:441:THR:HG21	1.70	0.92
1:O:441:THR:HG21	1:P:483:ARG:O	1.70	0.92
1:Z:441:THR:HG21	1:a:483:ARG:O	1.70	0.92
1:f:441:THR:HG21	1:g:483:ARG:O	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:483:ARG:O	1:h:441:THR:HG21	1.70	0.92
1:i:483:ARG:O	1:k:441:THR:HG21	1.70	0.92
1:s:441:THR:HG21	1:t:483:ARG:O	1.70	0.92
1:7:441:THR:HG21	1:8:483:ARG:O	1.70	0.92
1:L:441:THR:HG21	1:M:483:ARG:O	1.70	0.92
1:K:441:THR:HG21	1:L:483:ARG:O	1.70	0.91
1:Q:483:ARG:O	1:S:441:THR:HG21	1.70	0.91
1:R:441:THR:HG21	1:S:483:ARG:O	1.70	0.91
1:x:483:ARG:O	1:z:441:THR:HG21	1.70	0.91
1:B:441:THR:HG21	1:C:483:ARG:O	1.70	0.91
1:Z:483:ARG:O	1:b:441:THR:HG21	1.70	0.91
1:r:441:THR:HG21	1:s:483:ARG:O	1.70	0.91
1:u:441:THR:HG21	1:v:483:ARG:O	1.70	0.91
1:A:441:THR:HG21	1:7:483:ARG:O	1.70	0.91
1:o:483:ARG:O	1:q:441:THR:HG21	1.70	0.91
1:W:483:ARG:O	1:Y:441:THR:HG21	1.70	0.91
1:j:441:THR:HG21	1:k:483:ARG:O	1.70	0.91
1:H:483:ARG:O	1:J:441:THR:HG21	1.70	0.91
1:H:441:THR:HG21	1:I:483:ARG:O	1.70	0.91
1:X:441:THR:HG21	1:Y:483:ARG:O	1.70	0.91
1:d:441:THR:HG21	1:e:483:ARG:O	1.70	0.91
1:5:441:THR:HG21	1:6:483:ARG:O	1.70	0.91
1:c:483:ARG:O	1:e:441:THR:HG21	1.70	0.91
1:T:441:THR:HG21	1:U:483:ARG:O	1.70	0.91
1:y:441:THR:HG21	1:z:483:ARG:O	1.70	0.91
1:1:483:ARG:O	1:3:441:THR:HG21	1.70	0.91
1:B:483:ARG:O	1:D:441:THR:HG21	1.70	0.90
1:l:441:THR:HG21	1:m:483:ARG:O	1.70	0.90
1:4:483:ARG:O	1:6:441:THR:HG21	1.70	0.90
1:C:441:THR:HG21	1:D:483:ARG:O	1.70	0.90
1:g:441:THR:HG21	1:h:483:ARG:O	1.70	0.90
1:l:483:ARG:O	1:n:441:THR:HG21	1.70	0.90
1:2:441:THR:HG21	1:3:483:ARG:O	1.70	0.90
1:N:483:ARG:O	1:P:441:THR:HG21	1.70	0.90
1:Q:441:THR:HG21	1:R:483:ARG:O	1.70	0.90
1:m:441:THR:HG21	1:n:483:ARG:O	1.70	0.90
1:A:483:ARG:O	1:8:441:THR:HG21	1.70	0.90
1:E:441:THR:HG21	1:F:483:ARG:O	1.70	0.90
1:x:441:THR:HG21	1:y:483:ARG:O	1.70	0.90
1:K:483:ARG:O	1:M:441:THR:HG21	1.70	0.90
1:a:441:THR:HG21	1:b:483:ARG:O	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:483:ARG:O	1:t:441:THR:HG21	1.70	0.90
1:1:441:THR:HG21	1:2:483:ARG:O	1.70	0.90
1:i:441:THR:HG21	1:j:483:ARG:O	1.70	0.90
1:F:441:THR:HG21	1:G:483:ARG:O	1.70	0.89
1:p:441:THR:HG21	1:q:483:ARG:O	1.70	0.89
1:o:441:THR:HG21	1:p:483:ARG:O	1.70	0.89
1:N:441:THR:HG21	1:O:483:ARG:O	1.70	0.89
1:u:483:ARG:O	1:w:441:THR:HG21	1.70	0.89
1:v:441:THR:HG21	1:w:483:ARG:O	1.70	0.89
1:W:441:THR:HG21	1:X:483:ARG:O	1.70	0.89
1:I:441:THR:HG21	1:J:483:ARG:O	1.70	0.88
1:U:390:TYR:O	1:r:220:CYS:O	1.92	0.88
1:h:390:TYR:O	1:j:220:CYS:O	1.92	0.88
1:V:220:CYS:O	1:x:390:TYR:O	1.92	0.88
1:Z:220:CYS:O	1:m:390:TYR:O	1.92	0.88
1:1:390:TYR:O	1:7:220:CYS:O	1.92	0.88
1:B:390:TYR:O	1:n:220:CYS:O	1.92	0.88
1:C:390:TYR:O	1:f:220:CYS:O	1.92	0.88
1:J:390:TYR:O	1:L:220:CYS:O	1.92	0.88
1:S:220:CYS:O	1:X:390:TYR:O	1.92	0.88
1:k:220:CYS:O	1:p:390:TYR:O	1.92	0.88
1:s:220:CYS:O	1:w:390:TYR:O	1.92	0.88
1:z:390:TYR:O	1:2:220:CYS:O	1.92	0.88
1:u:390:TYR:O	1:1:220:CYS:O	1.92	0.88
1:F:390:TYR:O	1:e:220:CYS:O	1.92	0.88
1:W:390:TYR:O	1:c:220:CYS:O	1.92	0.88
1:a:220:CYS:O	1:e:390:TYR:O	1.92	0.88
1:m:220:CYS:O	1:q:390:TYR:O	1.92	0.88
1:o:390:TYR:O	1:u:220:CYS:O	1.92	0.88
1:6:390:TYR:O	1:8:220:CYS:O	1.92	0.88
1:D:220:CYS:O	1:l:390:TYR:O	1.92	0.88
1:I:390:TYR:O	1:4:220:CYS:O	1.92	0.88
1:N:390:TYR:O	1:6:220:CYS:O	1.92	0.88
1:a:390:TYR:O	1:l:220:CYS:O	1.92	0.88
1:3:220:CYS:O	1:8:390:TYR:O	1.92	0.88
1:P:390:TYR:O	1:R:220:CYS:O	1.92	0.87
1:q:220:CYS:O	1:v:390:TYR:O	1.92	0.87
1:y:220:CYS:O	1:3:390:TYR:O	1.92	0.87
1:E:390:TYR:O	1:K:220:CYS:O	1.92	0.87
1:O:220:CYS:O	1:S:390:TYR:O	1.92	0.87
1:Q:390:TYR:O	1:W:220:CYS:O	1.92	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:220:CYS:O	1:L:390:TYR:O	1.92	0.87
1:I:220:CYS:O	1:M:390:TYR:O	1.92	0.87
1:M:220:CYS:O	1:R:390:TYR:O	1.92	0.87
1:Y:220:CYS:O	1:d:390:TYR:O	1.92	0.87
1:H:220:CYS:O	1:5:390:TYR:O	1.92	0.87
1:H:390:TYR:O	1:h:220:CYS:O	1.92	0.87
1:U:220:CYS:O	1:Y:390:TYR:O	1.92	0.87
1:C:220:CYS:O	1:G:390:TYR:O	1.92	0.87
1:D:390:TYR:O	1:F:220:CYS:O	1.92	0.87
1:K:390:TYR:O	1:Q:220:CYS:O	1.92	0.87
1:N:220:CYS:O	1:y:390:TYR:O	1.92	0.87
1:b:390:TYR:O	1:d:220:CYS:O	1.92	0.87
1:A:390:TYR:O	1:5:220:CYS:O	1.92	0.87
1:E:589:GLU:HG3	1:G:589:GLU:CG	2.05	0.87
1:O:390:TYR:O	1:x:220:CYS:O	1.92	0.87
1:l:568:GLN:NE2	1:m:492:THR:O	2.08	0.87
1:1:492:THR:O	1:3:568:GLN:NE2	2.08	0.87
1:B:589:GLU:HG3	1:D:589:GLU:CG	2.05	0.87
1:E:568:GLN:NE2	1:F:492:THR:O	2.08	0.87
1:H:492:THR:O	1:J:568:GLN:NE2	2.08	0.87
1:N:492:THR:O	1:P:568:GLN:NE2	2.08	0.87
1:O:589:GLU:CG	1:P:589:GLU:HG3	2.05	0.87
1:X:568:GLN:NE2	1:Y:492:THR:O	2.08	0.87
1:c:492:THR:O	1:e:568:GLN:NE2	2.08	0.87
1:x:589:GLU:CG	1:y:589:GLU:HG3	2.05	0.87
1:y:589:GLU:CG	1:z:589:GLU:HG3	2.05	0.87
1:B:492:THR:O	1:D:568:GLN:NE2	2.08	0.87
1:C:589:GLU:CG	1:D:589:GLU:HG3	2.05	0.87
1:E:220:CYS:O	1:c:390:TYR:O	1.92	0.87
1:Q:589:GLU:HG3	1:S:589:GLU:CG	2.05	0.87
1:R:589:GLU:CG	1:S:589:GLU:HG3	2.05	0.87
1:W:589:GLU:HG3	1:Y:589:GLU:CG	2.05	0.87
1:m:568:GLN:NE2	1:n:492:THR:O	2.08	0.87
1:o:568:GLN:NE2	1:p:492:THR:O	2.08	0.87
1:1:568:GLN:NE2	1:2:492:THR:O	2.08	0.87
1:4:492:THR:O	1:6:568:GLN:NE2	2.08	0.87
1:7:568:GLN:NE2	1:8:492:THR:O	2.08	0.87
1:B:589:GLU:CG	1:C:589:GLU:HG3	2.05	0.87
1:E:589:GLU:CG	1:F:589:GLU:HG3	2.05	0.87
1:H:589:GLU:CG	1:I:589:GLU:HG3	2.05	0.87
1:K:589:GLU:CG	1:L:589:GLU:HG3	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:568:GLN:NE2	1:M:492:THR:O	2.08	0.87
1:L:589:GLU:CG	1:M:589:GLU:HG3	2.05	0.87
1:Z:568:GLN:NE2	1:a:492:THR:O	2.08	0.87
1:v:568:GLN:NE2	1:w:492:THR:O	2.08	0.87
1:x:589:GLU:HG3	1:z:589:GLU:CG	2.05	0.87
1:y:568:GLN:NE2	1:z:492:THR:O	2.08	0.87
1:H:589:GLU:HG3	1:J:589:GLU:CG	2.05	0.86
1:K:568:GLN:NE2	1:L:492:THR:O	2.08	0.86
1:K:589:GLU:HG3	1:M:589:GLU:CG	2.05	0.86
1:N:568:GLN:NE2	1:O:492:THR:O	2.08	0.86
1:P:220:CYS:O	1:4:390:TYR:O	1.92	0.86
1:Q:492:THR:O	1:S:568:GLN:NE2	2.08	0.86
1:Q:589:GLU:CG	1:R:589:GLU:HG3	2.05	0.86
1:R:568:GLN:NE2	1:S:492:THR:O	2.08	0.86
1:i:390:TYR:O	1:o:220:CYS:O	1.92	0.86
1:F:568:GLN:NE2	1:G:492:THR:O	2.08	0.86
1:N:589:GLU:HG3	1:P:589:GLU:CG	2.05	0.86
1:X:589:GLU:CG	1:Y:589:GLU:HG3	2.05	0.86
1:Z:390:TYR:O	1:t:220:CYS:O	1.92	0.86
1:f:589:GLU:CG	1:g:589:GLU:HG3	2.05	0.86
1:g:568:GLN:NE2	1:h:492:THR:O	2.08	0.86
1:i:492:THR:O	1:k:568:GLN:NE2	2.08	0.86
1:t:390:TYR:O	1:v:220:CYS:O	1.92	0.86
1:B:220:CYS:O	1:g:390:TYR:O	1.92	0.86
1:T:220:CYS:O	1:s:390:TYR:O	1.92	0.86
1:T:568:GLN:NE2	1:U:492:THR:O	2.08	0.86
1:T:589:GLU:HG3	1:V:589:GLU:CG	2.05	0.86
1:V:390:TYR:O	1:X:220:CYS:O	1.92	0.86
1:g:220:CYS:O	1:k:390:TYR:O	1.92	0.86
1:i:220:CYS:O	1:7:390:TYR:O	1.92	0.86
1:n:390:TYR:O	1:p:220:CYS:O	1.92	0.86
1:s:568:GLN:NE2	1:t:492:THR:O	2.08	0.86
1:v:589:GLU:CG	1:w:589:GLU:HG3	2.05	0.86
1:E:492:THR:O	1:G:568:GLN:NE2	2.08	0.86
1:J:220:CYS:O	1:f:390:TYR:O	1.92	0.86
1:O:568:GLN:NE2	1:P:492:THR:O	2.08	0.86
1:T:390:TYR:O	1:z:220:CYS:O	1.92	0.86
1:U:568:GLN:NE2	1:V:492:THR:O	2.08	0.86
1:o:589:GLU:CG	1:p:589:GLU:HG3	2.05	0.86
1:r:492:THR:O	1:t:568:GLN:NE2	2.08	0.86
1:w:220:CYS:O	1:2:390:TYR:O	1.92	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:589:GLU:CG	1:2:589:GLU:HG3	2.05	0.86
1:B:568:GLN:NE2	1:C:492:THR:O	2.08	0.86
1:f:492:THR:O	1:h:568:GLN:NE2	2.08	0.86
1:m:589:GLU:CG	1:n:589:GLU:HG3	2.05	0.86
1:u:589:GLU:CG	1:v:589:GLU:HG3	2.05	0.86
1:A:220:CYS:O	1:j:390:TYR:O	1.92	0.86
1:i:568:GLN:NE2	1:j:492:THR:O	2.08	0.86
1:i:589:GLU:CG	1:j:589:GLU:HG3	2.05	0.86
1:r:589:GLU:HG3	1:t:589:GLU:CG	2.05	0.86
1:x:492:THR:O	1:z:568:GLN:NE2	2.08	0.86
1:b:220:CYS:O	1:r:390:TYR:O	1.92	0.86
1:g:589:GLU:CG	1:h:589:GLU:HG3	2.05	0.86
1:i:589:GLU:HG3	1:k:589:GLU:CG	2.05	0.86
1:o:589:GLU:HG3	1:q:589:GLU:CG	2.05	0.86
1:s:589:GLU:CG	1:t:589:GLU:HG3	2.05	0.86
1:Q:568:GLN:NE2	1:R:492:THR:O	2.08	0.86
1:T:589:GLU:CG	1:U:589:GLU:HG3	2.05	0.86
1:p:568:GLN:NE2	1:q:492:THR:O	2.08	0.86
1:A:492:THR:O	1:8:568:GLN:NE2	2.08	0.86
1:K:492:THR:O	1:M:568:GLN:NE2	2.08	0.86
1:W:568:GLN:NE2	1:X:492:THR:O	2.08	0.86
1:u:492:THR:O	1:w:568:GLN:NE2	2.08	0.86
1:H:568:GLN:NE2	1:I:492:THR:O	2.08	0.86
1:I:589:GLU:CG	1:J:589:GLU:HG3	2.05	0.86
1:W:492:THR:O	1:Y:568:GLN:NE2	2.08	0.86
1:l:589:GLU:CG	1:m:589:GLU:HG3	2.05	0.86
1:r:589:GLU:CG	1:s:589:GLU:HG3	2.05	0.86
1:u:589:GLU:HG3	1:w:589:GLU:CG	2.05	0.86
1:A:589:GLU:CG	1:7:589:GLU:HG3	2.05	0.85
1:I:568:GLN:NE2	1:J:492:THR:O	2.08	0.85
1:W:589:GLU:CG	1:X:589:GLU:HG3	2.05	0.85
1:a:568:GLN:NE2	1:b:492:THR:O	2.08	0.85
1:d:589:GLU:CG	1:e:589:GLU:HG3	2.05	0.85
1:f:568:GLN:NE2	1:g:492:THR:O	2.08	0.85
1:j:589:GLU:CG	1:k:589:GLU:HG3	2.05	0.85
1:p:589:GLU:CG	1:q:589:GLU:HG3	2.05	0.85
1:l:492:THR:O	1:n:568:GLN:NE2	2.08	0.85
1:1:589:GLU:HG3	1:3:589:GLU:CG	2.05	0.85
1:T:492:THR:O	1:V:568:GLN:NE2	2.08	0.85
1:Z:589:GLU:HG3	1:b:589:GLU:CG	2.05	0.85
1:c:568:GLN:NE2	1:d:492:THR:O	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:492:THR:O	1:q:568:GLN:NE2	2.08	0.85
1:2:589:GLU:CG	1:3:589:GLU:HG3	2.05	0.85
1:4:589:GLU:HG3	1:6:589:GLU:CG	2.05	0.85
1:5:589:GLU:CG	1:6:589:GLU:HG3	2.05	0.85
1:f:589:GLU:HG3	1:h:589:GLU:CG	2.05	0.85
1:l:589:GLU:HG3	1:n:589:GLU:CG	2.05	0.85
1:2:568:GLN:NE2	1:3:492:THR:O	2.08	0.85
1:U:589:GLU:CG	1:V:589:GLU:HG3	2.05	0.85
1:a:589:GLU:CG	1:b:589:GLU:HG3	2.05	0.85
1:c:589:GLU:HG3	1:e:589:GLU:CG	2.05	0.85
1:u:568:GLN:NE2	1:v:492:THR:O	2.08	0.85
1:x:568:GLN:NE2	1:y:492:THR:O	2.08	0.85
1:4:568:GLN:NE2	1:5:492:THR:O	2.08	0.85
1:A:589:GLU:HG3	1:8:589:GLU:CG	2.05	0.85
1:C:568:GLN:NE2	1:D:492:THR:O	2.08	0.85
1:c:589:GLU:CG	1:d:589:GLU:HG3	2.05	0.85
1:d:568:GLN:NE2	1:e:492:THR:O	2.08	0.85
1:r:568:GLN:NE2	1:s:492:THR:O	2.08	0.85
1:5:568:GLN:NE2	1:6:492:THR:O	2.08	0.85
1:4:589:GLU:CG	1:5:589:GLU:HG3	2.05	0.85
1:7:589:GLU:CG	1:8:589:GLU:HG3	2.05	0.85
1:j:568:GLN:NE2	1:k:492:THR:O	2.08	0.85
1:A:568:GLN:NE2	1:7:492:THR:O	2.08	0.85
1:Z:589:GLU:CG	1:a:589:GLU:HG3	2.05	0.85
1:Z:492:THR:O	1:b:568:GLN:NE2	2.08	0.84
1:F:589:GLU:CG	1:G:589:GLU:HG3	2.05	0.84
1:N:589:GLU:CG	1:O:589:GLU:HG3	2.05	0.84
1:g:325:ASN:HD21	1:k:326:ASN:HD21	1.34	0.76
1:B:325:ASN:HD21	1:g:326:ASN:HD21	1.34	0.76
1:T:325:ASN:HD21	1:s:326:ASN:HD21	1.34	0.76
1:T:326:ASN:HD21	1:z:325:ASN:HD21	1.34	0.76
1:W:326:ASN:HD21	1:c:325:ASN:HD21	1.34	0.76
1:D:326:ASN:HD21	1:F:325:ASN:HD21	1.34	0.75
1:N:325:ASN:HD21	1:y:326:ASN:HD21	1.34	0.75
1:n:326:ASN:HD21	1:p:325:ASN:HD21	1.34	0.75
1:w:325:ASN:HD21	1:2:326:ASN:HD21	1.34	0.75
1:F:326:ASN:HD21	1:e:325:ASN:HD21	1.34	0.75
1:I:326:ASN:HD21	1:4:325:ASN:HD21	1.34	0.75
1:N:326:ASN:HD21	1:6:325:ASN:HD21	1.34	0.75
1:C:326:ASN:HD21	1:f:325:ASN:HD21	1.34	0.75
1:H:325:ASN:HD21	1:5:326:ASN:HD21	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:ASN:HD21	1:j:326:ASN:HD21	1.34	0.75
1:Y:325:ASN:HD21	1:d:326:ASN:HD21	1.34	0.75
1:B:326:ASN:HD21	1:n:325:ASN:HD21	1.34	0.75
1:J:325:ASN:HD21	1:f:326:ASN:HD21	1.34	0.75
1:V:325:ASN:HD21	1:x:326:ASN:HD21	1.34	0.75
1:i:325:ASN:HD21	1:7:326:ASN:HD21	1.34	0.75
1:z:326:ASN:HD21	1:2:325:ASN:HD21	1.34	0.75
1:I:325:ASN:HD21	1:M:326:ASN:HD21	1.34	0.75
1:Q:326:ASN:HD21	1:W:325:ASN:HD21	1.34	0.75
1:V:326:ASN:HD21	1:X:325:ASN:HD21	1.34	0.75
1:b:325:ASN:HD21	1:r:326:ASN:HD21	1.34	0.75
1:Z:326:ASN:HD21	1:t:325:ASN:HD21	1.34	0.75
1:a:325:ASN:HD21	1:e:326:ASN:HD21	1.34	0.75
1:h:326:ASN:HD21	1:j:325:ASN:HD21	1.34	0.75
1:E:325:ASN:HD21	1:c:326:ASN:HD21	1.34	0.74
1:Z:325:ASN:HD21	1:m:326:ASN:HD21	1.34	0.74
1:o:326:ASN:HD21	1:u:325:ASN:HD21	1.34	0.74
1:q:325:ASN:HD21	1:v:326:ASN:HD21	1.34	0.74
1:U:326:ASN:HD21	1:r:325:ASN:HD21	1.34	0.74
1:6:326:ASN:HD21	1:8:325:ASN:HD21	1.34	0.74
1:P:325:ASN:HD21	1:4:326:ASN:HD21	1.34	0.74
1:1:326:ASN:HD21	1:7:325:ASN:HD21	1.34	0.74
1:H:397:ARG:H	1:H:400:ASN:HD22	1.36	0.74
1:Y:397:ARG:H	1:Y:400:ASN:HD22	1.36	0.74
1:T:397:ARG:H	1:T:400:ASN:HD22	1.36	0.74
1:w:397:ARG:H	1:w:400:ASN:HD22	1.36	0.74
1:g:397:ARG:H	1:g:400:ASN:HD22	1.36	0.74
1:p:397:ARG:H	1:p:400:ASN:HD22	1.36	0.74
1:q:397:ARG:H	1:q:400:ASN:HD22	1.36	0.74
1:t:326:ASN:HD21	1:v:325:ASN:HD21	1.34	0.74
1:u:397:ARG:H	1:u:400:ASN:HD22	1.36	0.74
1:8:397:ARG:H	1:8:400:ASN:HD22	1.36	0.74
1:a:397:ARG:H	1:a:400:ASN:HD22	1.36	0.74
1:L:397:ARG:H	1:L:400:ASN:HD22	1.36	0.74
1:d:397:ARG:H	1:d:400:ASN:HD22	1.36	0.74
1:k:325:ASN:HD21	1:p:326:ASN:HD21	1.34	0.74
1:n:397:ARG:H	1:n:400:ASN:HD22	1.36	0.74
1:5:397:ARG:H	1:5:400:ASN:HD22	1.36	0.74
1:K:326:ASN:HD21	1:Q:325:ASN:HD21	1.34	0.74
1:S:397:ARG:H	1:S:400:ASN:HD22	1.36	0.74
1:j:397:ARG:H	1:j:400:ASN:HD22	1.36	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:397:ARG:H	1:r:400:ASN:HD22	1.36	0.74
1:2:397:ARG:H	1:2:400:ASN:HD22	1.36	0.74
1:M:325:ASN:HD21	1:R:326:ASN:HD21	1.34	0.73
1:h:397:ARG:H	1:h:400:ASN:HD22	1.36	0.73
1:i:326:ASN:HD21	1:o:325:ASN:HD21	1.34	0.73
1:C:325:ASN:HD21	1:G:326:ASN:HD21	1.34	0.73
1:U:397:ARG:H	1:U:400:ASN:HD22	1.36	0.73
1:k:397:ARG:H	1:k:400:ASN:HD22	1.36	0.73
1:s:325:ASN:HD21	1:w:326:ASN:HD21	1.34	0.73
1:s:397:ARG:H	1:s:400:ASN:HD22	1.36	0.73
1:O:326:ASN:HD21	1:x:325:ASN:HD21	1.34	0.73
1:Q:397:ARG:H	1:Q:400:ASN:HD22	1.36	0.73
1:4:397:ARG:H	1:4:400:ASN:HD22	1.36	0.73
1:M:397:ARG:H	1:M:400:ASN:HD22	1.36	0.73
1:b:397:ARG:H	1:b:400:ASN:HD22	1.36	0.73
1:c:397:ARG:H	1:c:400:ASN:HD22	1.36	0.73
1:7:397:ARG:H	1:7:400:ASN:HD22	1.36	0.73
1:l:397:ARG:H	1:l:400:ASN:HD22	1.36	0.73
1:v:397:ARG:H	1:v:400:ASN:HD22	1.36	0.73
1:z:397:ARG:H	1:z:400:ASN:HD22	1.36	0.73
1:3:397:ARG:H	1:3:400:ASN:HD22	1.36	0.73
1:B:397:ARG:H	1:B:400:ASN:HD22	1.36	0.73
1:Z:397:ARG:H	1:Z:400:ASN:HD22	1.36	0.73
1:o:397:ARG:H	1:o:400:ASN:HD22	1.36	0.73
1:A:397:ARG:H	1:A:400:ASN:HD22	1.36	0.73
1:J:326:ASN:HD21	1:L:325:ASN:HD21	1.34	0.73
1:S:325:ASN:HD21	1:X:326:ASN:HD21	1.34	0.73
1:m:325:ASN:HD21	1:q:326:ASN:HD21	1.34	0.73
1:i:397:ARG:H	1:i:400:ASN:HD22	1.36	0.73
1:K:397:ARG:H	1:K:400:ASN:HD22	1.36	0.72
1:t:397:ARG:H	1:t:400:ASN:HD22	1.36	0.72
1:u:326:ASN:HD21	1:1:325:ASN:HD21	1.34	0.72
1:E:326:ASN:HD21	1:K:325:ASN:HD21	1.34	0.72
1:b:326:ASN:HD21	1:d:325:ASN:HD21	1.34	0.72
1:A:326:ASN:HD21	1:5:325:ASN:HD21	1.34	0.72
1:R:397:ARG:H	1:R:400:ASN:HD22	1.36	0.72
1:G:325:ASN:HD21	1:L:326:ASN:HD21	1.34	0.72
1:P:326:ASN:HD21	1:R:325:ASN:HD21	1.34	0.72
1:O:325:ASN:HD21	1:S:326:ASN:HD21	1.34	0.72
1:y:325:ASN:HD21	1:3:326:ASN:HD21	1.34	0.72
1:m:397:ARG:H	1:m:400:ASN:HD22	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:397:ARG:H	1:1:400:ASN:HD22	1.36	0.72
1:3:325:ASN:HD21	1:8:326:ASN:HD21	1.34	0.72
1:D:325:ASN:HD21	1:l:326:ASN:HD21	1.34	0.72
1:F:397:ARG:H	1:F:400:ASN:HD22	1.36	0.72
1:N:397:ARG:H	1:N:400:ASN:HD22	1.36	0.72
1:a:326:ASN:HD21	1:l:325:ASN:HD21	1.34	0.72
1:C:397:ARG:H	1:C:400:ASN:HD22	1.36	0.72
1:G:397:ARG:H	1:G:400:ASN:HD22	1.36	0.72
1:H:326:ASN:HD21	1:h:325:ASN:HD21	1.34	0.72
1:x:397:ARG:H	1:x:400:ASN:HD22	1.36	0.72
1:O:397:ARG:H	1:O:400:ASN:HD22	1.36	0.71
1:E:397:ARG:H	1:E:400:ASN:HD22	1.36	0.71
1:P:397:ARG:H	1:P:400:ASN:HD22	1.36	0.71
1:X:397:ARG:H	1:X:400:ASN:HD22	1.36	0.71
1:U:325:ASN:HD21	1:Y:326:ASN:HD21	1.34	0.71
1:J:397:ARG:H	1:J:400:ASN:HD22	1.36	0.71
1:y:397:ARG:H	1:y:400:ASN:HD22	1.36	0.71
1:I:397:ARG:H	1:I:400:ASN:HD22	1.36	0.71
1:T:325:ASN:HD21	1:s:326:ASN:ND2	1.89	0.71
1:W:397:ARG:H	1:W:400:ASN:HD22	1.36	0.71
1:g:325:ASN:HD21	1:k:326:ASN:ND2	1.89	0.71
1:D:397:ARG:H	1:D:400:ASN:HD22	1.36	0.71
1:G:325:ASN:HD21	1:L:326:ASN:ND2	1.89	0.71
1:H:326:ASN:ND2	1:h:325:ASN:HD21	1.89	0.71
1:I:325:ASN:HD21	1:M:326:ASN:ND2	1.89	0.71
1:Q:326:ASN:ND2	1:W:325:ASN:HD21	1.89	0.71
1:F:326:ASN:ND2	1:e:325:ASN:HD21	1.89	0.71
1:O:325:ASN:HD21	1:S:326:ASN:ND2	1.89	0.71
1:U:325:ASN:HD21	1:Y:326:ASN:ND2	1.89	0.71
1:f:397:ARG:H	1:f:400:ASN:HD22	1.36	0.71
1:B:325:ASN:HD21	1:g:326:ASN:ND2	1.89	0.71
1:N:326:ASN:ND2	1:6:325:ASN:HD21	1.89	0.71
1:Y:325:ASN:HD21	1:d:326:ASN:ND2	1.89	0.71
1:H:325:ASN:HD21	1:5:326:ASN:ND2	1.89	0.70
1:M:325:ASN:HD21	1:R:326:ASN:ND2	1.89	0.70
1:T:326:ASN:ND2	1:z:325:ASN:HD21	1.89	0.70
1:K:326:ASN:ND2	1:Q:325:ASN:HD21	1.89	0.70
1:V:397:ARG:H	1:V:400:ASN:HD22	1.36	0.70
1:E:326:ASN:ND2	1:K:325:ASN:HD21	1.89	0.70
1:m:325:ASN:HD21	1:q:326:ASN:ND2	1.89	0.70
1:A:326:ASN:ND2	1:5:325:ASN:HD21	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:325:ASN:HD21	1:G:326:ASN:ND2	1.89	0.70
1:P:326:ASN:ND2	1:R:325:ASN:HD21	1.89	0.70
1:e:397:ARG:H	1:e:400:ASN:HD22	1.36	0.70
1:u:326:ASN:ND2	1:1:325:ASN:HD21	1.89	0.70
1:O:326:ASN:ND2	1:x:325:ASN:HD21	1.89	0.70
1:b:326:ASN:ND2	1:d:325:ASN:HD21	1.89	0.70
1:D:325:ASN:HD21	1:l:326:ASN:ND2	1.89	0.70
1:S:325:ASN:HD21	1:X:326:ASN:ND2	1.89	0.70
1:k:325:ASN:HD21	1:p:326:ASN:ND2	1.89	0.70
1:A:325:ASN:HD21	1:j:326:ASN:ND2	1.89	0.70
1:E:325:ASN:HD21	1:c:326:ASN:ND2	1.89	0.70
1:P:325:ASN:HD21	1:4:326:ASN:ND2	1.89	0.70
1:Z:325:ASN:HD21	1:m:326:ASN:ND2	1.89	0.70
1:b:325:ASN:HD21	1:r:326:ASN:ND2	1.89	0.70
1:s:325:ASN:HD21	1:w:326:ASN:ND2	1.89	0.70
1:B:326:ASN:ND2	1:n:325:ASN:HD21	1.89	0.70
1:a:325:ASN:HD21	1:e:326:ASN:ND2	1.89	0.70
1:y:325:ASN:HD21	1:3:326:ASN:ND2	1.89	0.70
1:6:397:ARG:H	1:6:400:ASN:HD22	1.36	0.70
1:J:326:ASN:ND2	1:L:325:ASN:HD21	1.89	0.70
1:z:326:ASN:ND2	1:2:325:ASN:HD21	1.89	0.70
1:1:326:ASN:ND2	1:7:325:ASN:HD21	1.89	0.70
1:D:326:ASN:ND2	1:F:325:ASN:HD21	1.89	0.70
1:W:326:ASN:ND2	1:c:325:ASN:HD21	1.89	0.70
1:i:325:ASN:HD21	1:7:326:ASN:ND2	1.89	0.70
1:6:326:ASN:ND2	1:8:325:ASN:HD21	1.89	0.70
1:I:326:ASN:ND2	1:4:325:ASN:HD21	1.89	0.69
1:N:325:ASN:HD21	1:y:326:ASN:ND2	1.89	0.69
1:V:325:ASN:HD21	1:x:326:ASN:ND2	1.89	0.69
1:Z:326:ASN:ND2	1:t:325:ASN:HD21	1.89	0.69
1:J:325:ASN:HD21	1:f:326:ASN:ND2	1.89	0.69
1:w:325:ASN:HD21	1:2:326:ASN:ND2	1.89	0.69
1:C:326:ASN:ND2	1:f:325:ASN:HD21	1.89	0.69
1:V:326:ASN:ND2	1:X:325:ASN:HD21	1.89	0.69
1:n:326:ASN:ND2	1:p:325:ASN:HD21	1.89	0.69
1:h:326:ASN:ND2	1:j:325:ASN:HD21	1.89	0.69
1:o:326:ASN:ND2	1:u:325:ASN:HD21	1.89	0.69
1:U:326:ASN:ND2	1:r:325:ASN:HD21	1.89	0.69
1:q:325:ASN:HD21	1:v:326:ASN:ND2	1.89	0.69
1:t:326:ASN:ND2	1:v:325:ASN:HD21	1.89	0.69
1:a:326:ASN:ND2	1:l:325:ASN:HD21	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:326:ASN:ND2	1:o:325:ASN:HD21	1.89	0.69
1:3:325:ASN:HD21	1:8:326:ASN:ND2	1.89	0.69
1:1:589:GLU:CG	1:3:589:GLU:HG2	2.22	0.69
1:u:589:GLU:CG	1:w:589:GLU:HG2	2.22	0.68
1:o:300:ARG:HD2	1:o:674:GLU:HB2	1.76	0.68
1:v:300:ARG:HD2	1:v:674:GLU:HB2	1.76	0.68
1:v:589:GLU:HG2	1:w:589:GLU:CG	2.22	0.68
1:q:300:ARG:HD2	1:q:674:GLU:HB2	1.76	0.68
1:E:589:GLU:HG2	1:F:589:GLU:CG	2.22	0.68
1:H:300:ARG:HD2	1:H:674:GLU:HB2	1.76	0.68
1:N:300:ARG:HD2	1:N:674:GLU:HB2	1.76	0.68
1:Y:300:ARG:HD2	1:Y:674:GLU:HB2	1.76	0.68
1:c:300:ARG:HD2	1:c:674:GLU:HB2	1.76	0.68
1:o:589:GLU:HG2	1:p:589:GLU:CG	2.22	0.68
1:u:300:ARG:HD2	1:u:674:GLU:HB2	1.76	0.68
1:F:300:ARG:HD2	1:F:674:GLU:HB2	1.76	0.68
1:N:589:GLU:CG	1:P:589:GLU:HG2	2.22	0.68
1:T:300:ARG:HD2	1:T:674:GLU:HB2	1.76	0.68
1:g:300:ARG:HD2	1:g:674:GLU:HB2	1.76	0.68
1:i:300:ARG:HD2	1:i:674:GLU:HB2	1.76	0.68
1:m:300:ARG:HD2	1:m:674:GLU:HB2	1.76	0.68
1:t:300:ARG:HD2	1:t:674:GLU:HB2	1.76	0.68
1:1:300:ARG:HD2	1:1:674:GLU:HB2	1.76	0.68
1:4:300:ARG:HD2	1:4:674:GLU:HB2	1.76	0.68
1:B:300:ARG:HD2	1:B:674:GLU:HB2	1.76	0.68
1:T:589:GLU:HG2	1:U:589:GLU:CG	2.22	0.68
1:z:300:ARG:HD2	1:z:674:GLU:HB2	1.76	0.68
1:e:300:ARG:HD2	1:e:674:GLU:HB2	1.76	0.68
1:g:589:GLU:HG2	1:h:589:GLU:CG	2.22	0.68
1:l:300:ARG:HD2	1:l:674:GLU:HB2	1.76	0.68
1:3:300:ARG:HD2	1:3:674:GLU:HB2	1.76	0.68
1:6:300:ARG:HD2	1:6:674:GLU:HB2	1.76	0.68
1:W:589:GLU:CG	1:Y:589:GLU:HG2	2.22	0.68
1:d:589:GLU:HG2	1:e:589:GLU:CG	2.22	0.68
1:Z:589:GLU:HG2	1:a:589:GLU:CG	2.22	0.68
1:d:300:ARG:HD2	1:d:674:GLU:HB2	1.76	0.68
1:5:589:GLU:HG2	1:6:589:GLU:CG	2.22	0.68
1:H:589:GLU:HG2	1:I:589:GLU:CG	2.22	0.67
1:j:300:ARG:HD2	1:j:674:GLU:HB2	1.76	0.67
1:p:300:ARG:HD2	1:p:674:GLU:HB2	1.76	0.67
1:r:300:ARG:HD2	1:r:674:GLU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:300:ARG:HD2	1:w:674:GLU:HB2	1.76	0.67
1:5:300:ARG:HD2	1:5:674:GLU:HB2	1.76	0.67
1:7:589:GLU:HG2	1:8:589:GLU:CG	2.22	0.67
1:E:300:ARG:HD2	1:E:674:GLU:HB2	1.76	0.67
1:P:300:ARG:HD2	1:P:674:GLU:HB2	1.76	0.67
1:Q:300:ARG:HD2	1:Q:674:GLU:HB2	1.76	0.67
1:f:589:GLU:CG	1:h:589:GLU:HG2	2.22	0.67
1:k:300:ARG:HD2	1:k:674:GLU:HB2	1.76	0.67
1:I:589:GLU:HG2	1:J:589:GLU:CG	2.22	0.67
1:K:589:GLU:CG	1:M:589:GLU:HG2	2.22	0.67
1:M:300:ARG:HD2	1:M:674:GLU:HB2	1.76	0.67
1:R:300:ARG:HD2	1:R:674:GLU:HB2	1.76	0.67
1:U:589:GLU:HG2	1:V:589:GLU:CG	2.22	0.67
1:2:300:ARG:HD2	1:2:674:GLU:HB2	1.76	0.67
1:K:300:ARG:HD2	1:K:674:GLU:HB2	1.76	0.67
1:L:300:ARG:HD2	1:L:674:GLU:HB2	1.76	0.67
1:S:300:ARG:HD2	1:S:674:GLU:HB2	1.76	0.67
1:W:589:GLU:HG2	1:X:589:GLU:CG	2.22	0.67
1:c:589:GLU:HG2	1:d:589:GLU:CG	2.22	0.67
1:s:300:ARG:HD2	1:s:674:GLU:HB2	1.76	0.67
1:4:589:GLU:HG2	1:5:589:GLU:CG	2.22	0.67
1:Q:589:GLU:HG2	1:R:589:GLU:CG	2.22	0.67
1:n:300:ARG:HD2	1:n:674:GLU:HB2	1.76	0.67
1:x:300:ARG:HD2	1:x:674:GLU:HB2	1.76	0.67
1:1:589:GLU:HG2	1:2:589:GLU:CG	2.22	0.67
1:C:300:ARG:HD2	1:C:674:GLU:HB2	1.76	0.67
1:W:300:ARG:HD2	1:W:674:GLU:HB2	1.76	0.67
1:Z:300:ARG:HD2	1:Z:674:GLU:HB2	1.76	0.67
1:I:300:ARG:HD2	1:I:674:GLU:HB2	1.76	0.67
1:b:300:ARG:HD2	1:b:674:GLU:HB2	1.76	0.67
1:m:589:GLU:HG2	1:n:589:GLU:CG	2.22	0.67
1:7:300:ARG:HD2	1:7:674:GLU:HB2	1.76	0.67
1:D:300:ARG:HD2	1:D:674:GLU:HB2	1.76	0.67
1:c:589:GLU:CG	1:e:589:GLU:HG2	2.22	0.67
1:A:300:ARG:HD2	1:A:674:GLU:HB2	1.76	0.66
1:E:589:GLU:CG	1:G:589:GLU:HG2	2.22	0.66
1:O:589:GLU:HG2	1:P:589:GLU:CG	2.22	0.66
1:V:300:ARG:HD2	1:V:674:GLU:HB2	1.76	0.66
1:y:300:ARG:HD2	1:y:674:GLU:HB2	1.76	0.66
1:f:456:ARG:HA	1:g:261:ASN:ND2	2.11	0.66
1:2:456:ARG:HA	1:3:261:ASN:ND2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:589:GLU:CG	1:6:589:GLU:HG2	2.22	0.66
1:A:456:ARG:HA	1:7:261:ASN:ND2	2.11	0.66
1:K:456:ARG:HA	1:L:261:ASN:ND2	2.11	0.66
1:R:456:ARG:HA	1:S:261:ASN:ND2	2.11	0.66
1:T:261:ASN:ND2	1:V:456:ARG:HA	2.11	0.66
1:U:300:ARG:HD2	1:U:674:GLU:HB2	1.76	0.66
1:Z:261:ASN:ND2	1:b:456:ARG:HA	2.11	0.66
1:f:300:ARG:HD2	1:f:674:GLU:HB2	1.76	0.66
1:l:261:ASN:ND2	1:n:456:ARG:HA	2.11	0.66
1:T:461:TYR:HA	1:U:506:PRO:HD3	1.78	0.66
1:Z:456:ARG:HA	1:a:261:ASN:ND2	2.11	0.66
1:h:300:ARG:HD2	1:h:674:GLU:HB2	1.76	0.66
1:l:456:ARG:HA	1:m:261:ASN:ND2	2.11	0.66
1:7:456:ARG:HA	1:8:261:ASN:ND2	2.11	0.66
1:a:300:ARG:HD2	1:a:674:GLU:HB2	1.76	0.66
1:g:461:TYR:HA	1:h:506:PRO:HD3	1.78	0.66
1:j:461:TYR:HA	1:k:506:PRO:HD3	1.78	0.66
1:p:461:TYR:HA	1:q:506:PRO:HD3	1.78	0.66
1:r:461:TYR:HA	1:s:506:PRO:HD3	1.78	0.66
1:u:506:PRO:HD3	1:w:461:TYR:HA	1.78	0.66
1:1:261:ASN:ND2	1:3:456:ARG:HA	2.11	0.66
1:B:261:ASN:ND2	1:D:456:ARG:HA	2.11	0.66
1:B:461:TYR:HA	1:C:506:PRO:HD3	1.78	0.66
1:E:461:TYR:HA	1:F:506:PRO:HD3	1.78	0.66
1:I:461:TYR:HA	1:J:506:PRO:HD3	1.78	0.66
1:N:506:PRO:HD3	1:P:461:TYR:HA	1.78	0.66
1:W:461:TYR:HA	1:X:506:PRO:HD3	1.78	0.66
1:d:456:ARG:HA	1:e:261:ASN:ND2	2.11	0.66
1:f:261:ASN:ND2	1:h:456:ARG:HA	2.11	0.66
1:i:261:ASN:ND2	1:k:456:ARG:HA	2.11	0.66
1:o:461:TYR:HA	1:p:506:PRO:HD3	1.78	0.66
1:o:506:PRO:HD3	1:q:461:TYR:HA	1.78	0.66
1:u:461:TYR:HA	1:v:506:PRO:HD3	1.78	0.66
1:x:506:PRO:HD3	1:z:461:TYR:HA	1.78	0.66
1:5:456:ARG:HA	1:6:261:ASN:ND2	2.11	0.66
1:B:506:PRO:HD3	1:D:461:TYR:HA	1.78	0.66
1:U:456:ARG:HA	1:V:261:ASN:ND2	2.11	0.66
1:U:461:TYR:HA	1:V:506:PRO:HD3	1.78	0.66
1:f:506:PRO:HD3	1:h:461:TYR:HA	1.78	0.66
1:m:456:ARG:HA	1:n:261:ASN:ND2	2.11	0.66
1:o:456:ARG:HA	1:p:261:ASN:ND2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:456:ARG:HA	1:t:261:ASN:ND2	2.11	0.66
1:v:461:TYR:HA	1:w:506:PRO:HD3	1.78	0.66
1:y:456:ARG:HA	1:z:261:ASN:ND2	2.11	0.66
1:4:456:ARG:HA	1:5:261:ASN:ND2	2.11	0.66
1:8:300:ARG:HD2	1:8:674:GLU:HB2	1.76	0.66
1:K:589:GLU:HG2	1:L:589:GLU:CG	2.22	0.66
1:N:589:GLU:HG2	1:O:589:GLU:CG	2.22	0.66
1:c:456:ARG:HA	1:d:261:ASN:ND2	2.11	0.66
1:v:456:ARG:HA	1:w:261:ASN:ND2	2.11	0.66
1:y:461:TYR:HA	1:z:506:PRO:HD3	1.78	0.66
1:1:456:ARG:HA	1:2:261:ASN:ND2	2.11	0.66
1:B:456:ARG:HA	1:C:261:ASN:ND2	2.11	0.66
1:E:261:ASN:ND2	1:G:456:ARG:HA	2.11	0.66
1:O:300:ARG:HD2	1:O:674:GLU:HB2	1.76	0.66
1:Q:456:ARG:HA	1:R:261:ASN:ND2	2.11	0.66
1:l:461:TYR:HA	1:m:506:PRO:HD3	1.78	0.66
1:l:506:PRO:HD3	1:n:461:TYR:HA	1.78	0.66
1:r:261:ASN:ND2	1:t:456:ARG:HA	2.11	0.66
1:x:261:ASN:ND2	1:z:456:ARG:HA	2.11	0.66
1:x:456:ARG:HA	1:y:261:ASN:ND2	2.11	0.66
1:4:261:ASN:ND2	1:6:456:ARG:HA	2.11	0.66
1:7:461:TYR:HA	1:8:506:PRO:HD3	1.78	0.66
1:F:589:GLU:HG2	1:G:589:GLU:CG	2.22	0.66
1:H:261:ASN:ND2	1:J:456:ARG:HA	2.11	0.66
1:H:506:PRO:HD3	1:J:461:TYR:HA	1.78	0.66
1:H:589:GLU:CG	1:J:589:GLU:HG2	2.22	0.66
1:K:261:ASN:ND2	1:M:456:ARG:HA	2.11	0.66
1:O:456:ARG:HA	1:P:261:ASN:ND2	2.11	0.66
1:R:589:GLU:HG2	1:S:589:GLU:CG	2.22	0.66
1:X:456:ARG:HA	1:Y:261:ASN:ND2	2.11	0.66
1:X:461:TYR:HA	1:Y:506:PRO:HD3	1.78	0.66
1:Z:461:TYR:HA	1:a:506:PRO:HD3	1.78	0.66
1:Z:506:PRO:HD3	1:b:461:TYR:HA	1.78	0.66
1:c:261:ASN:ND2	1:e:456:ARG:HA	2.11	0.66
1:i:456:ARG:HA	1:j:261:ASN:ND2	2.11	0.66
1:o:261:ASN:ND2	1:q:456:ARG:HA	2.11	0.66
1:r:589:GLU:HG2	1:s:589:GLU:CG	2.22	0.66
1:s:461:TYR:HA	1:t:506:PRO:HD3	1.78	0.66
1:u:456:ARG:HA	1:v:261:ASN:ND2	2.11	0.66
1:2:461:TYR:HA	1:3:506:PRO:HD3	1.78	0.66
1:B:589:GLU:CG	1:D:589:GLU:HG2	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:456:ARG:HA	1:D:261:ASN:ND2	2.11	0.65
1:C:461:TYR:HA	1:D:506:PRO:HD3	1.78	0.65
1:G:300:ARG:HD2	1:G:674:GLU:HB2	1.76	0.65
1:Q:261:ASN:ND2	1:S:456:ARG:HA	2.11	0.65
1:X:589:GLU:HG2	1:Y:589:GLU:CG	2.22	0.65
1:p:456:ARG:HA	1:q:261:ASN:ND2	2.11	0.65
1:x:461:TYR:HA	1:y:506:PRO:HD3	1.78	0.65
1:1:506:PRO:HD3	1:3:461:TYR:HA	1.78	0.65
1:A:461:TYR:HA	1:7:506:PRO:HD3	1.78	0.65
1:E:506:PRO:HD3	1:G:461:TYR:HA	1.78	0.65
1:L:456:ARG:HA	1:M:261:ASN:ND2	2.11	0.65
1:T:506:PRO:HD3	1:V:461:TYR:HA	1.78	0.65
1:f:461:TYR:HA	1:g:506:PRO:HD3	1.78	0.65
1:i:461:TYR:HA	1:j:506:PRO:HD3	1.78	0.65
1:i:506:PRO:HD3	1:k:461:TYR:HA	1.78	0.65
1:j:589:GLU:HG2	1:k:589:GLU:CG	2.22	0.65
1:l:589:GLU:CG	1:n:589:GLU:HG2	2.22	0.65
1:r:506:PRO:HD3	1:t:461:TYR:HA	1.78	0.65
1:y:589:GLU:HG2	1:z:589:GLU:CG	2.22	0.65
1:N:456:ARG:HA	1:O:261:ASN:ND2	2.11	0.65
1:O:461:TYR:HA	1:P:506:PRO:HD3	1.78	0.65
1:T:589:GLU:CG	1:V:589:GLU:HG2	2.22	0.65
1:c:506:PRO:HD3	1:e:461:TYR:HA	1.78	0.65
1:f:589:GLU:HG2	1:g:589:GLU:CG	2.22	0.65
1:u:261:ASN:ND2	1:w:456:ARG:HA	2.11	0.65
1:1:461:TYR:HA	1:2:506:PRO:HD3	1.78	0.65
1:4:461:TYR:HA	1:5:506:PRO:HD3	1.78	0.65
1:4:506:PRO:HD3	1:6:461:TYR:HA	1.78	0.65
1:J:300:ARG:HD2	1:J:674:GLU:HB2	1.76	0.65
1:a:461:TYR:HA	1:b:506:PRO:HD3	1.78	0.65
1:c:461:TYR:HA	1:d:506:PRO:HD3	1.78	0.65
1:m:461:TYR:HA	1:n:506:PRO:HD3	1.78	0.65
1:r:456:ARG:HA	1:s:261:ASN:ND2	2.11	0.65
1:E:456:ARG:HA	1:F:261:ASN:ND2	2.11	0.65
1:F:456:ARG:HA	1:G:261:ASN:ND2	2.11	0.65
1:W:261:ASN:ND2	1:Y:456:ARG:HA	2.11	0.65
1:2:589:GLU:HG2	1:3:589:GLU:CG	2.22	0.65
1:A:506:PRO:HD3	1:8:461:TYR:HA	1.78	0.65
1:H:456:ARG:HA	1:I:261:ASN:ND2	2.11	0.65
1:X:300:ARG:HD2	1:X:674:GLU:HB2	1.76	0.65
1:j:456:ARG:HA	1:k:261:ASN:ND2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:261:ASN:ND2	1:P:456:ARG:HA	2.11	0.65
1:T:456:ARG:HA	1:U:261:ASN:ND2	2.11	0.65
1:W:456:ARG:HA	1:X:261:ASN:ND2	2.11	0.65
1:x:589:GLU:CG	1:z:589:GLU:HG2	2.22	0.65
1:A:261:ASN:ND2	1:8:456:ARG:HA	2.11	0.65
1:a:456:ARG:HA	1:b:261:ASN:ND2	2.11	0.65
1:d:461:TYR:HA	1:e:506:PRO:HD3	1.78	0.65
1:g:456:ARG:HA	1:h:261:ASN:ND2	2.11	0.65
1:B:589:GLU:HG2	1:C:589:GLU:CG	2.22	0.65
1:I:456:ARG:HA	1:J:261:ASN:ND2	2.11	0.65
1:5:461:TYR:HA	1:6:506:PRO:HD3	1.78	0.65
1:K:506:PRO:HD3	1:M:461:TYR:HA	1.78	0.64
1:Q:461:TYR:HA	1:R:506:PRO:HD3	1.78	0.64
1:R:461:TYR:HA	1:S:506:PRO:HD3	1.78	0.64
1:F:461:TYR:HA	1:G:506:PRO:HD3	1.78	0.64
1:K:461:TYR:HA	1:L:506:PRO:HD3	1.78	0.64
1:L:461:TYR:HA	1:M:506:PRO:HD3	1.78	0.64
1:Q:506:PRO:HD3	1:S:461:TYR:HA	1.78	0.64
1:u:589:GLU:HG2	1:v:589:GLU:CG	2.22	0.64
1:N:461:TYR:HA	1:O:506:PRO:HD3	1.78	0.64
1:H:461:TYR:HA	1:I:506:PRO:HD3	1.78	0.64
1:o:589:GLU:CG	1:q:589:GLU:HG2	2.22	0.64
1:W:506:PRO:HD3	1:Y:461:TYR:HA	1.78	0.64
1:A:589:GLU:HG2	1:7:589:GLU:CG	2.22	0.63
1:Z:589:GLU:CG	1:b:589:GLU:HG2	2.22	0.63
1:Q:589:GLU:CG	1:S:589:GLU:HG2	2.22	0.63
1:L:589:GLU:HG2	1:M:589:GLU:CG	2.22	0.62
1:K:548:LEU:HG	1:K:714:PRO:HD3	1.82	0.62
1:R:548:LEU:HG	1:R:714:PRO:HD3	1.82	0.62
1:s:548:LEU:HG	1:s:714:PRO:HD3	1.82	0.62
1:B:548:LEU:HG	1:B:714:PRO:HD3	1.82	0.62
1:Y:548:LEU:HG	1:Y:714:PRO:HD3	1.82	0.62
1:k:548:LEU:HG	1:k:714:PRO:HD3	1.82	0.62
1:q:548:LEU:HG	1:q:714:PRO:HD3	1.82	0.62
1:s:589:GLU:HG2	1:t:589:GLU:CG	2.22	0.62
1:u:548:LEU:HG	1:u:714:PRO:HD3	1.82	0.62
1:z:548:LEU:HG	1:z:714:PRO:HD3	1.82	0.62
1:H:548:LEU:HG	1:H:714:PRO:HD3	1.82	0.62
1:V:548:LEU:HG	1:V:714:PRO:HD3	1.82	0.62
1:i:589:GLU:CG	1:k:589:GLU:HG2	2.22	0.62
1:E:548:LEU:HG	1:E:714:PRO:HD3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:548:LEU:HG	1:f:714:PRO:HD3	1.82	0.62
1:m:548:LEU:HG	1:m:714:PRO:HD3	1.82	0.62
1:r:548:LEU:HG	1:r:714:PRO:HD3	1.82	0.62
1:1:548:LEU:HG	1:1:714:PRO:HD3	1.82	0.62
1:P:548:LEU:HG	1:P:714:PRO:HD3	1.82	0.62
1:j:548:LEU:HG	1:j:714:PRO:HD3	1.82	0.62
1:l:589:GLU:HG2	1:m:589:GLU:CG	2.22	0.62
1:C:548:LEU:HG	1:C:714:PRO:HD3	1.82	0.62
1:t:548:LEU:HG	1:t:714:PRO:HD3	1.82	0.62
1:x:548:LEU:HG	1:x:714:PRO:HD3	1.82	0.62
1:M:255:VAL:HG13	1:M:261:ASN:HB3	1.82	0.62
1:Q:255:VAL:HG13	1:Q:261:ASN:HB3	1.82	0.62
1:T:255:VAL:HG13	1:T:261:ASN:HB3	1.82	0.62
1:a:548:LEU:HG	1:a:714:PRO:HD3	1.82	0.62
1:i:548:LEU:HG	1:i:714:PRO:HD3	1.82	0.62
1:l:548:LEU:HG	1:l:714:PRO:HD3	1.82	0.62
1:o:548:LEU:HG	1:o:714:PRO:HD3	1.82	0.62
1:g:255:VAL:HG13	1:g:261:ASN:HB3	1.82	0.62
1:n:255:VAL:HG13	1:n:261:ASN:HB3	1.82	0.62
1:v:548:LEU:HG	1:v:714:PRO:HD3	1.82	0.62
1:2:255:VAL:HG13	1:2:261:ASN:HB3	1.82	0.62
1:3:548:LEU:HG	1:3:714:PRO:HD3	1.82	0.62
1:8:548:LEU:HG	1:8:714:PRO:HD3	1.82	0.62
1:F:255:VAL:HG13	1:F:261:ASN:HB3	1.82	0.61
1:J:548:LEU:HG	1:J:714:PRO:HD3	1.82	0.61
1:X:548:LEU:HG	1:X:714:PRO:HD3	1.82	0.61
1:e:255:VAL:HG13	1:e:261:ASN:HB3	1.82	0.61
1:6:255:VAL:HG13	1:6:261:ASN:HB3	1.82	0.61
1:L:255:VAL:HG13	1:L:261:ASN:HB3	1.82	0.61
1:N:255:VAL:HG13	1:N:261:ASN:HB3	1.82	0.61
1:O:255:VAL:HG13	1:O:261:ASN:HB3	1.82	0.61
1:S:255:VAL:HG13	1:S:261:ASN:HB3	1.82	0.61
1:c:255:VAL:HG13	1:c:261:ASN:HB3	1.82	0.61
1:4:255:VAL:HG13	1:4:261:ASN:HB3	1.82	0.61
1:E:255:VAL:HG13	1:E:261:ASN:HB3	1.82	0.61
1:G:255:VAL:HG13	1:G:261:ASN:HB3	1.82	0.61
1:P:255:VAL:HG13	1:P:261:ASN:HB3	1.82	0.61
1:u:255:VAL:HG13	1:u:261:ASN:HB3	1.82	0.61
1:v:255:VAL:HG13	1:v:261:ASN:HB3	1.82	0.61
1:7:255:VAL:HG13	1:7:261:ASN:HB3	1.82	0.61
1:7:548:LEU:HG	1:7:714:PRO:HD3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:255:VAL:HG13	1:H:261:ASN:HB3	1.82	0.61
1:T:548:LEU:HG	1:T:714:PRO:HD3	1.82	0.61
1:Y:255:VAL:HG13	1:Y:261:ASN:HB3	1.82	0.61
1:Z:255:VAL:HG13	1:Z:261:ASN:HB3	1.82	0.61
1:Z:548:LEU:HG	1:Z:714:PRO:HD3	1.82	0.61
1:a:589:GLU:HG2	1:b:589:GLU:CG	2.22	0.61
1:g:548:LEU:HG	1:g:714:PRO:HD3	1.82	0.61
1:h:548:LEU:HG	1:h:714:PRO:HD3	1.82	0.61
1:o:255:VAL:HG13	1:o:261:ASN:HB3	1.82	0.61
1:A:391:PHE:CZ	1:8:681:LYS:HG2	2.36	0.61
1:U:548:LEU:HG	1:U:714:PRO:HD3	1.82	0.61
1:V:441:THR:HG23	1:V:445:GLY:HA2	1.83	0.61
1:a:681:LYS:HG2	1:b:391:PHE:CZ	2.36	0.61
1:l:681:LYS:HG2	1:m:391:PHE:CZ	2.36	0.61
1:q:255:VAL:HG13	1:q:261:ASN:HB3	1.82	0.61
1:A:548:LEU:HG	1:A:714:PRO:HD3	1.82	0.61
1:C:255:VAL:HG13	1:C:261:ASN:HB3	1.82	0.61
1:N:548:LEU:HG	1:N:714:PRO:HD3	1.82	0.61
1:d:681:LYS:HG2	1:e:391:PHE:CZ	2.36	0.61
1:f:255:VAL:HG13	1:f:261:ASN:HB3	1.82	0.61
1:f:391:PHE:CZ	1:h:681:LYS:HG2	2.36	0.61
1:f:441:THR:HG23	1:f:445:GLY:HA2	1.83	0.61
1:m:441:THR:HG23	1:m:445:GLY:HA2	1.83	0.61
1:w:548:LEU:HG	1:w:714:PRO:HD3	1.82	0.61
1:1:391:PHE:CZ	1:3:681:LYS:HG2	2.36	0.61
1:1:441:THR:HG23	1:1:445:GLY:HA2	1.83	0.61
1:5:681:LYS:HG2	1:6:391:PHE:CZ	2.36	0.61
1:E:391:PHE:CZ	1:G:681:LYS:HG2	2.36	0.61
1:F:548:LEU:HG	1:F:714:PRO:HD3	1.82	0.61
1:K:391:PHE:CZ	1:M:681:LYS:HG2	2.36	0.61
1:O:681:LYS:HG2	1:P:391:PHE:CZ	2.36	0.61
1:Q:681:LYS:HG2	1:R:391:PHE:CZ	2.36	0.61
1:U:681:LYS:HG2	1:V:391:PHE:CZ	2.36	0.61
1:V:255:VAL:HG13	1:V:261:ASN:HB3	1.82	0.61
1:b:548:LEU:HG	1:b:714:PRO:HD3	1.82	0.61
1:x:255:VAL:HG13	1:x:261:ASN:HB3	1.82	0.61
1:D:548:LEU:HG	1:D:714:PRO:HD3	1.82	0.61
1:K:681:LYS:HG2	1:L:391:PHE:CZ	2.36	0.61
1:Z:681:LYS:HG2	1:a:391:PHE:CZ	2.36	0.61
1:g:441:THR:HG23	1:g:445:GLY:HA2	1.83	0.61
1:o:391:PHE:CZ	1:q:681:LYS:HG2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:441:THR:HG23	1:p:445:GLY:HA2	1.83	0.61
1:p:548:LEU:HG	1:p:714:PRO:HD3	1.82	0.61
1:r:589:GLU:CG	1:t:589:GLU:HG2	2.22	0.61
1:u:681:LYS:HG2	1:v:391:PHE:CZ	2.36	0.61
1:y:681:LYS:HG2	1:z:391:PHE:CZ	2.36	0.61
1:8:255:VAL:HG13	1:8:261:ASN:HB3	1.82	0.61
1:A:589:GLU:CG	1:8:589:GLU:HG2	2.22	0.61
1:B:391:PHE:CZ	1:D:681:LYS:HG2	2.36	0.61
1:H:441:THR:HG23	1:H:445:GLY:HA2	1.83	0.61
1:H:681:LYS:HG2	1:I:391:PHE:CZ	2.36	0.61
1:L:441:THR:HG23	1:L:445:GLY:HA2	1.83	0.61
1:R:681:LYS:HG2	1:S:391:PHE:CZ	2.36	0.61
1:S:441:THR:HG23	1:S:445:GLY:HA2	1.83	0.61
1:T:441:THR:HG23	1:T:445:GLY:HA2	1.83	0.61
1:Y:441:THR:HG23	1:Y:445:GLY:HA2	1.83	0.61
1:e:548:LEU:HG	1:e:714:PRO:HD3	1.82	0.61
1:l:391:PHE:CZ	1:n:681:LYS:HG2	2.36	0.61
1:t:255:VAL:HG13	1:t:261:ASN:HB3	1.82	0.61
1:w:441:THR:HG23	1:w:445:GLY:HA2	1.83	0.61
1:y:548:LEU:HG	1:y:714:PRO:HD3	1.82	0.61
1:2:681:LYS:HG2	1:3:391:PHE:CZ	2.36	0.61
1:6:548:LEU:HG	1:6:714:PRO:HD3	1.82	0.61
1:7:681:LYS:HG2	1:8:391:PHE:CZ	2.36	0.61
1:A:681:LYS:HG2	1:7:391:PHE:CZ	2.36	0.60
1:C:462:LYS:O	1:D:506:PRO:HG2	2.02	0.60
1:E:441:THR:HG23	1:E:445:GLY:HA2	1.83	0.60
1:F:681:LYS:HG2	1:G:391:PHE:CZ	2.36	0.60
1:I:681:LYS:HG2	1:J:391:PHE:CZ	2.36	0.60
1:N:391:PHE:CZ	1:P:681:LYS:HG2	2.36	0.60
1:N:681:LYS:HG2	1:O:391:PHE:CZ	2.36	0.60
1:U:462:LYS:O	1:V:506:PRO:HG2	2.01	0.60
1:W:391:PHE:CZ	1:Y:681:LYS:HG2	2.36	0.60
1:Z:391:PHE:CZ	1:b:681:LYS:HG2	2.36	0.60
1:a:255:VAL:HG13	1:a:261:ASN:HB3	1.82	0.60
1:f:506:PRO:HG2	1:h:462:LYS:O	2.01	0.60
1:i:255:VAL:HG13	1:i:261:ASN:HB3	1.82	0.60
1:i:391:PHE:CZ	1:k:681:LYS:HG2	2.36	0.60
1:n:548:LEU:HG	1:n:714:PRO:HD3	1.82	0.60
1:q:441:THR:HG23	1:q:445:GLY:HA2	1.83	0.60
1:s:681:LYS:HG2	1:t:391:PHE:CZ	2.36	0.60
1:u:441:THR:HG23	1:u:445:GLY:HA2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:462:LYS:O	1:y:506:PRO:HG2	2.02	0.60
1:8:441:THR:HG23	1:8:445:GLY:HA2	1.83	0.60
1:D:441:THR:HG23	1:D:445:GLY:HA2	1.83	0.60
1:I:548:LEU:HG	1:I:714:PRO:HD3	1.82	0.60
1:P:441:THR:HG23	1:P:445:GLY:HA2	1.83	0.60
1:Q:548:LEU:HG	1:Q:714:PRO:HD3	1.82	0.60
1:W:681:LYS:HG2	1:X:391:PHE:CZ	2.36	0.60
1:a:441:THR:HG23	1:a:445:GLY:HA2	1.83	0.60
1:b:255:VAL:HG13	1:b:261:ASN:HB3	1.82	0.60
1:g:681:LYS:HG2	1:h:391:PHE:CZ	2.36	0.60
1:h:255:VAL:HG13	1:h:261:ASN:HB3	1.82	0.60
1:k:255:VAL:HG13	1:k:261:ASN:HB3	1.82	0.60
1:p:462:LYS:O	1:q:506:PRO:HG2	2.01	0.60
1:r:391:PHE:CZ	1:t:681:LYS:HG2	2.36	0.60
1:r:441:THR:HG23	1:r:445:GLY:HA2	1.83	0.60
1:u:506:PRO:HG2	1:w:462:LYS:O	2.01	0.60
1:v:462:LYS:O	1:w:506:PRO:HG2	2.02	0.60
1:x:441:THR:HG23	1:x:445:GLY:HA2	1.83	0.60
1:y:441:THR:HG23	1:y:445:GLY:HA2	1.83	0.60
1:2:441:THR:HG23	1:2:445:GLY:HA2	1.83	0.60
1:2:462:LYS:O	1:3:506:PRO:HG2	2.01	0.60
1:2:548:LEU:HG	1:2:714:PRO:HD3	1.82	0.60
1:4:548:LEU:HG	1:4:714:PRO:HD3	1.82	0.60
1:A:255:VAL:HG13	1:A:261:ASN:HB3	1.82	0.60
1:C:441:THR:HG23	1:C:445:GLY:HA2	1.83	0.60
1:E:681:LYS:HG2	1:F:391:PHE:CZ	2.36	0.60
1:M:548:LEU:HG	1:M:714:PRO:HD3	1.82	0.60
1:W:548:LEU:HG	1:W:714:PRO:HD3	1.82	0.60
1:c:548:LEU:HG	1:c:714:PRO:HD3	1.82	0.60
1:f:462:LYS:O	1:g:506:PRO:HG2	2.02	0.60
1:i:506:PRO:HG2	1:k:462:LYS:O	2.02	0.60
1:i:589:GLU:HG2	1:j:589:GLU:CG	2.22	0.60
1:i:681:LYS:HG2	1:j:391:PHE:CZ	2.36	0.60
1:j:441:THR:HG23	1:j:445:GLY:HA2	1.83	0.60
1:j:681:LYS:HG2	1:k:391:PHE:CZ	2.36	0.60
1:l:506:PRO:HG2	1:n:462:LYS:O	2.01	0.60
1:m:255:VAL:HG13	1:m:261:ASN:HB3	1.82	0.60
1:o:462:LYS:O	1:p:506:PRO:HG2	2.02	0.60
1:p:681:LYS:HG2	1:q:391:PHE:CZ	2.36	0.60
1:r:681:LYS:HG2	1:s:391:PHE:CZ	2.36	0.60
1:s:255:VAL:HG13	1:s:261:ASN:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:462:LYS:O	1:t:506:PRO:HG2	2.02	0.60
1:x:681:LYS:HG2	1:y:391:PHE:CZ	2.36	0.60
1:1:462:LYS:O	1:2:506:PRO:HG2	2.01	0.60
1:4:462:LYS:O	1:5:506:PRO:HG2	2.01	0.60
1:A:462:LYS:O	1:7:506:PRO:HG2	2.02	0.60
1:C:681:LYS:HG2	1:D:391:PHE:CZ	2.36	0.60
1:G:548:LEU:HG	1:G:714:PRO:HD3	1.82	0.60
1:K:441:THR:HG23	1:K:445:GLY:HA2	1.83	0.60
1:O:548:LEU:HG	1:O:714:PRO:HD3	1.82	0.60
1:T:506:PRO:HG2	1:V:462:LYS:O	2.02	0.60
1:T:681:LYS:HG2	1:U:391:PHE:CZ	2.36	0.60
1:Z:506:PRO:HG2	1:b:462:LYS:O	2.02	0.60
1:c:462:LYS:O	1:d:506:PRO:HG2	2.01	0.60
1:f:681:LYS:HG2	1:g:391:PHE:CZ	2.36	0.60
1:m:462:LYS:O	1:n:506:PRO:HG2	2.01	0.60
1:n:441:THR:HG23	1:n:445:GLY:HA2	1.83	0.60
1:p:255:VAL:HG13	1:p:261:ASN:HB3	1.82	0.60
1:u:391:PHE:CZ	1:w:681:LYS:HG2	2.36	0.60
1:w:255:VAL:HG13	1:w:261:ASN:HB3	1.82	0.60
1:1:255:VAL:HG13	1:1:261:ASN:HB3	1.82	0.60
1:3:255:VAL:HG13	1:3:261:ASN:HB3	1.82	0.60
1:B:441:THR:HG23	1:B:445:GLY:HA2	1.83	0.60
1:R:441:THR:HG23	1:R:445:GLY:HA2	1.83	0.60
1:U:255:VAL:HG13	1:U:261:ASN:HB3	1.82	0.60
1:X:681:LYS:HG2	1:Y:391:PHE:CZ	2.36	0.60
1:b:441:THR:HG23	1:b:445:GLY:HA2	1.83	0.60
1:l:255:VAL:HG13	1:l:261:ASN:HB3	1.82	0.60
1:t:441:THR:HG23	1:t:445:GLY:HA2	1.83	0.60
1:K:462:LYS:O	1:L:506:PRO:HG2	2.02	0.60
1:T:391:PHE:CZ	1:V:681:LYS:HG2	2.36	0.60
1:d:548:LEU:HG	1:d:714:PRO:HD3	1.82	0.60
1:i:441:THR:HG23	1:i:445:GLY:HA2	1.83	0.60
1:A:441:THR:HG23	1:A:445:GLY:HA2	1.83	0.60
1:C:589:GLU:HG2	1:D:589:GLU:CG	2.22	0.60
1:E:506:PRO:HG2	1:G:462:LYS:O	2.02	0.60
1:H:391:PHE:CZ	1:J:681:LYS:HG2	2.36	0.60
1:J:255:VAL:HG13	1:J:261:ASN:HB3	1.82	0.60
1:L:548:LEU:HG	1:L:714:PRO:HD3	1.82	0.60
1:O:462:LYS:O	1:P:506:PRO:HG2	2.02	0.60
1:R:462:LYS:O	1:S:506:PRO:HG2	2.02	0.60
1:X:255:VAL:HG13	1:X:261:ASN:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:462:LYS:O	1:v:506:PRO:HG2	2.02	0.60
1:x:589:GLU:HG2	1:y:589:GLU:CG	2.22	0.60
1:y:462:LYS:O	1:z:506:PRO:HG2	2.01	0.60
1:z:441:THR:HG23	1:z:445:GLY:HA2	1.83	0.60
1:B:506:PRO:HG2	1:D:462:LYS:O	2.01	0.60
1:D:255:VAL:HG13	1:D:261:ASN:HB3	1.82	0.60
1:E:462:LYS:O	1:F:506:PRO:HG2	2.02	0.60
1:J:441:THR:HG23	1:J:445:GLY:HA2	1.83	0.60
1:K:506:PRO:HG2	1:M:462:LYS:O	2.02	0.60
1:M:441:THR:HG23	1:M:445:GLY:HA2	1.83	0.60
1:Q:441:THR:HG23	1:Q:445:GLY:HA2	1.83	0.60
1:Q:462:LYS:O	1:R:506:PRO:HG2	2.02	0.60
1:X:441:THR:HG23	1:X:445:GLY:HA2	1.83	0.60
1:c:506:PRO:HG2	1:e:462:LYS:O	2.02	0.60
1:c:681:LYS:HG2	1:d:391:PHE:CZ	2.36	0.60
1:j:255:VAL:HG13	1:j:261:ASN:HB3	1.82	0.60
1:l:462:LYS:O	1:m:506:PRO:HG2	2.01	0.60
1:o:506:PRO:HG2	1:q:462:LYS:O	2.02	0.60
1:r:255:VAL:HG13	1:r:261:ASN:HB3	1.82	0.60
1:x:391:PHE:CZ	1:z:681:LYS:HG2	2.36	0.60
1:x:506:PRO:HG2	1:z:462:LYS:O	2.02	0.60
1:1:506:PRO:HG2	1:3:462:LYS:O	2.01	0.60
1:4:681:LYS:HG2	1:5:391:PHE:CZ	2.36	0.60
1:5:548:LEU:HG	1:5:714:PRO:HD3	1.82	0.60
1:B:462:LYS:O	1:C:506:PRO:HG2	2.02	0.60
1:F:441:THR:HG23	1:F:445:GLY:HA2	1.83	0.60
1:I:441:THR:HG23	1:I:445:GLY:HA2	1.83	0.60
1:L:681:LYS:HG2	1:M:391:PHE:CZ	2.36	0.60
1:N:441:THR:HG23	1:N:445:GLY:HA2	1.83	0.60
1:N:506:PRO:HG2	1:P:462:LYS:O	2.02	0.60
1:S:548:LEU:HG	1:S:714:PRO:HD3	1.82	0.60
1:a:462:LYS:O	1:b:506:PRO:HG2	2.02	0.60
1:o:441:THR:HG23	1:o:445:GLY:HA2	1.83	0.60
1:y:255:VAL:HG13	1:y:261:ASN:HB3	1.82	0.60
1:4:391:PHE:CZ	1:6:681:LYS:HG2	2.36	0.60
1:4:506:PRO:HG2	1:6:462:LYS:O	2.02	0.60
1:5:441:THR:HG23	1:5:445:GLY:HA2	1.83	0.60
1:B:681:LYS:HG2	1:C:391:PHE:CZ	2.36	0.60
1:K:255:VAL:HG13	1:K:261:ASN:HB3	1.82	0.60
1:U:441:THR:HG23	1:U:445:GLY:HA2	1.83	0.60
1:W:441:THR:HG23	1:W:445:GLY:HA2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:391:PHE:CZ	1:e:681:LYS:HG2	2.36	0.60
1:d:441:THR:HG23	1:d:445:GLY:HA2	1.83	0.60
1:h:441:THR:HG23	1:h:445:GLY:HA2	1.83	0.60
1:A:506:PRO:HG2	1:8:462:LYS:O	2.02	0.59
1:I:462:LYS:O	1:J:506:PRO:HG2	2.01	0.59
1:Q:391:PHE:CZ	1:S:681:LYS:HG2	2.36	0.59
1:Q:506:PRO:HG2	1:S:462:LYS:O	2.01	0.59
1:W:462:LYS:O	1:X:506:PRO:HG2	2.01	0.59
1:v:441:THR:HG23	1:v:445:GLY:HA2	1.83	0.59
1:7:441:THR:HG23	1:7:445:GLY:HA2	1.83	0.59
1:G:441:THR:HG23	1:G:445:GLY:HA2	1.83	0.59
1:L:462:LYS:O	1:M:506:PRO:HG2	2.01	0.59
1:O:441:THR:HG23	1:O:445:GLY:HA2	1.83	0.59
1:R:255:VAL:HG13	1:R:261:ASN:HB3	1.82	0.59
1:d:255:VAL:HG13	1:d:261:ASN:HB3	1.82	0.59
1:d:462:LYS:O	1:e:506:PRO:HG2	2.02	0.59
1:5:255:VAL:HG13	1:5:261:ASN:HB3	1.82	0.59
1:7:462:LYS:O	1:8:506:PRO:HG2	2.01	0.59
1:Z:441:THR:HG23	1:Z:445:GLY:HA2	1.83	0.59
1:F:462:LYS:O	1:G:506:PRO:HG2	2.02	0.59
1:H:506:PRO:HG2	1:J:462:LYS:O	2.01	0.59
1:N:462:LYS:O	1:O:506:PRO:HG2	2.02	0.59
1:W:255:VAL:HG13	1:W:261:ASN:HB3	1.82	0.59
1:W:506:PRO:HG2	1:Y:462:LYS:O	2.01	0.59
1:Z:462:LYS:O	1:a:506:PRO:HG2	2.01	0.59
1:i:462:LYS:O	1:j:506:PRO:HG2	2.02	0.59
1:m:681:LYS:HG2	1:n:391:PHE:CZ	2.36	0.59
1:z:255:VAL:HG13	1:z:261:ASN:HB3	1.82	0.59
1:5:462:LYS:O	1:6:506:PRO:HG2	2.02	0.59
1:B:255:VAL:HG13	1:B:261:ASN:HB3	1.82	0.59
1:I:255:VAL:HG13	1:I:261:ASN:HB3	1.82	0.59
1:j:462:LYS:O	1:k:506:PRO:HG2	2.02	0.59
1:r:462:LYS:O	1:s:506:PRO:HG2	2.02	0.59
1:r:506:PRO:HG2	1:t:462:LYS:O	2.02	0.59
1:1:681:LYS:HG2	1:2:391:PHE:CZ	2.36	0.59
1:3:441:THR:HG23	1:3:445:GLY:HA2	1.83	0.59
1:H:462:LYS:O	1:I:506:PRO:HG2	2.01	0.59
1:X:462:LYS:O	1:Y:506:PRO:HG2	2.01	0.59
1:c:441:THR:HG23	1:c:445:GLY:HA2	1.83	0.59
1:g:462:LYS:O	1:h:506:PRO:HG2	2.02	0.59
1:l:441:THR:HG23	1:l:445:GLY:HA2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:681:LYS:HG2	1:p:391:PHE:CZ	2.36	0.59
1:v:681:LYS:HG2	1:w:391:PHE:CZ	2.36	0.59
1:4:441:THR:HG23	1:4:445:GLY:HA2	1.83	0.59
1:T:462:LYS:O	1:U:506:PRO:HG2	2.02	0.59
1:K:328:THR:CG2	1:Q:310:GLN:CG	2.74	0.59
1:e:441:THR:HG23	1:e:445:GLY:HA2	1.83	0.59
1:M:310:GLN:CG	1:R:328:THR:CG2	2.74	0.58
1:s:441:THR:HG23	1:s:445:GLY:HA2	1.83	0.58
1:6:441:THR:HG23	1:6:445:GLY:HA2	1.83	0.58
1:k:441:THR:HG23	1:k:445:GLY:HA2	1.83	0.58
1:p:589:GLU:HG2	1:q:589:GLU:CG	2.22	0.58
1:N:310:GLN:CG	1:y:328:THR:CG2	2.74	0.58
1:U:310:GLN:CG	1:Y:328:THR:CG2	2.74	0.58
1:H:328:THR:CG2	1:h:310:GLN:CG	2.74	0.57
1:J:328:THR:CG2	1:L:310:GLN:CG	2.74	0.57
1:u:517:GLY:O	1:u:518:SER:O	2.23	0.57
1:J:517:GLY:O	1:J:518:SER:O	2.23	0.57
1:K:517:GLY:O	1:K:518:SER:O	2.23	0.57
1:R:517:GLY:O	1:R:518:SER:O	2.23	0.57
1:X:517:GLY:O	1:X:518:SER:O	2.23	0.57
1:q:517:GLY:O	1:q:518:SER:O	2.23	0.57
1:F:517:GLY:O	1:F:518:SER:O	2.23	0.57
1:N:517:GLY:O	1:N:518:SER:O	2.23	0.57
1:O:517:GLY:O	1:O:518:SER:O	2.23	0.57
1:o:517:GLY:O	1:o:518:SER:O	2.23	0.57
1:p:517:GLY:O	1:p:518:SER:O	2.23	0.57
1:v:517:GLY:O	1:v:518:SER:O	2.23	0.57
1:w:517:GLY:O	1:w:518:SER:O	2.23	0.57
1:G:310:GLN:CG	1:L:328:THR:CG2	2.74	0.57
1:G:517:GLY:O	1:G:518:SER:O	2.23	0.57
1:S:310:GLN:CG	1:X:328:THR:CG2	2.74	0.57
1:n:517:GLY:O	1:n:518:SER:O	2.23	0.57
1:2:517:GLY:O	1:2:518:SER:O	2.23	0.57
1:5:517:GLY:O	1:5:518:SER:O	2.23	0.57
1:Z:310:GLN:CG	1:m:328:THR:CG2	2.74	0.57
1:c:517:GLY:O	1:c:518:SER:O	2.23	0.57
1:d:517:GLY:O	1:d:518:SER:O	2.23	0.57
1:z:328:THR:CG2	1:2:310:GLN:CG	2.74	0.57
1:4:517:GLY:O	1:4:518:SER:O	2.23	0.57
1:A:517:GLY:O	1:A:518:SER:O	2.23	0.57
1:B:517:GLY:O	1:B:518:SER:O	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:517:GLY:O	1:L:518:SER:O	2.23	0.57
1:S:517:GLY:O	1:S:518:SER:O	2.23	0.57
1:Z:517:GLY:O	1:Z:518:SER:O	2.23	0.57
1:e:517:GLY:O	1:e:518:SER:O	2.23	0.57
1:l:517:GLY:O	1:l:518:SER:O	2.23	0.57
1:z:517:GLY:O	1:z:518:SER:O	2.23	0.57
1:1:328:THR:CG2	1:7:310:GLN:CG	2.74	0.57
1:3:517:GLY:O	1:3:518:SER:O	2.23	0.57
1:7:517:GLY:O	1:7:518:SER:O	2.23	0.57
1:E:328:THR:CG2	1:K:310:GLN:CG	2.74	0.56
1:H:517:GLY:O	1:H:518:SER:O	2.23	0.56
1:I:575:SER:HB3	1:I:578:THR:HG23	1.87	0.56
1:O:310:GLN:CG	1:S:328:THR:CG2	2.74	0.56
1:P:328:THR:CG2	1:R:310:GLN:CG	2.74	0.56
1:W:575:SER:HB3	1:W:578:THR:HG23	1.87	0.56
1:Y:517:GLY:O	1:Y:518:SER:O	2.23	0.56
1:b:517:GLY:O	1:b:518:SER:O	2.23	0.56
1:g:517:GLY:O	1:g:518:SER:O	2.23	0.56
1:k:575:SER:HB3	1:k:578:THR:HG23	1.87	0.56
1:m:575:SER:HB3	1:m:578:THR:HG23	1.87	0.56
1:s:575:SER:HB3	1:s:578:THR:HG23	1.87	0.56
1:x:575:SER:HB3	1:x:578:THR:HG23	1.87	0.56
1:y:517:GLY:O	1:y:518:SER:O	2.23	0.56
1:1:575:SER:HB3	1:1:578:THR:HG23	1.87	0.56
1:6:517:GLY:O	1:6:518:SER:O	2.23	0.56
1:B:328:THR:CG2	1:n:310:GLN:CG	2.74	0.56
1:C:517:GLY:O	1:C:518:SER:O	2.23	0.56
1:C:575:SER:HB3	1:C:578:THR:HG23	1.87	0.56
1:D:517:GLY:O	1:D:518:SER:O	2.23	0.56
1:P:517:GLY:O	1:P:518:SER:O	2.23	0.56
1:T:517:GLY:O	1:T:518:SER:O	2.23	0.56
1:x:517:GLY:O	1:x:518:SER:O	2.23	0.56
1:E:517:GLY:O	1:E:518:SER:O	2.23	0.56
1:l:575:SER:HB3	1:l:578:THR:HG23	1.87	0.56
1:m:517:GLY:O	1:m:518:SER:O	2.23	0.56
1:t:575:SER:HB3	1:t:578:THR:HG23	1.87	0.56
1:u:575:SER:HB3	1:u:578:THR:HG23	1.87	0.56
1:3:575:SER:HB3	1:3:578:THR:HG23	1.87	0.56
1:Q:575:SER:HB3	1:Q:578:THR:HG23	1.87	0.56
1:W:328:THR:CG2	1:c:310:GLN:CG	2.74	0.56
1:h:328:THR:CG2	1:j:310:GLN:CG	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:517:GLY:O	1:i:518:SER:O	2.23	0.56
1:q:575:SER:HB3	1:q:578:THR:HG23	1.87	0.56
1:1:517:GLY:O	1:1:518:SER:O	2.23	0.56
1:6:575:SER:HB3	1:6:578:THR:HG23	1.87	0.56
1:A:328:THR:CG2	1:5:310:GLN:CG	2.74	0.56
1:I:328:THR:CG2	1:4:310:GLN:CG	2.74	0.56
1:M:575:SER:HB3	1:M:578:THR:HG23	1.87	0.56
1:R:575:SER:HB3	1:R:578:THR:HG23	1.87	0.56
1:b:328:THR:CG2	1:d:310:GLN:CG	2.74	0.56
1:c:575:SER:HB3	1:c:578:THR:HG23	1.87	0.56
1:e:575:SER:HB3	1:e:578:THR:HG23	1.87	0.56
1:i:575:SER:HB3	1:i:578:THR:HG23	1.87	0.56
1:j:517:GLY:O	1:j:518:SER:O	2.23	0.56
1:k:517:GLY:O	1:k:518:SER:O	2.23	0.56
1:s:517:GLY:O	1:s:518:SER:O	2.23	0.56
1:t:517:GLY:O	1:t:518:SER:O	2.23	0.56
1:F:575:SER:HB3	1:F:578:THR:HG23	1.87	0.56
1:K:575:SER:HB3	1:K:578:THR:HG23	1.87	0.56
1:N:575:SER:HB3	1:N:578:THR:HG23	1.87	0.56
1:g:575:SER:HB3	1:g:578:THR:HG23	1.87	0.56
1:4:575:SER:HB3	1:4:578:THR:HG23	1.87	0.56
1:I:517:GLY:O	1:I:518:SER:O	2.23	0.56
1:M:517:GLY:O	1:M:518:SER:O	2.23	0.56
1:O:575:SER:HB3	1:O:578:THR:HG23	1.87	0.56
1:Q:517:GLY:O	1:Q:518:SER:O	2.23	0.56
1:T:575:SER:HB3	1:T:578:THR:HG23	1.87	0.56
1:U:575:SER:HB3	1:U:578:THR:HG23	1.87	0.56
1:V:517:GLY:O	1:V:518:SER:O	2.23	0.56
1:V:575:SER:HB3	1:V:578:THR:HG23	1.87	0.56
1:Z:575:SER:HB3	1:Z:578:THR:HG23	1.87	0.56
1:a:575:SER:HB3	1:a:578:THR:HG23	1.87	0.56
1:f:575:SER:HB3	1:f:578:THR:HG23	1.87	0.56
1:h:575:SER:HB3	1:h:578:THR:HG23	1.87	0.56
1:p:575:SER:HB3	1:p:578:THR:HG23	1.87	0.56
1:r:517:GLY:O	1:r:518:SER:O	2.23	0.56
1:w:575:SER:HB3	1:w:578:THR:HG23	1.87	0.56
1:7:575:SER:HB3	1:7:578:THR:HG23	1.87	0.56
1:G:575:SER:HB3	1:G:578:THR:HG23	1.87	0.56
1:f:517:GLY:O	1:f:518:SER:O	2.23	0.56
1:m:214:ALA:H	1:q:400:ASN:HD21	1.54	0.56
1:u:400:ASN:HD21	1:1:214:ALA:H	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:575:SER:HB3	1:2:578:THR:HG23	1.87	0.56
1:8:575:SER:HB3	1:8:578:THR:HG23	1.87	0.56
1:B:575:SER:HB3	1:B:578:THR:HG23	1.87	0.56
1:J:400:ASN:HD21	1:L:214:ALA:H	1.54	0.56
1:S:214:ALA:H	1:X:400:ASN:HD21	1.54	0.56
1:S:575:SER:HB3	1:S:578:THR:HG23	1.87	0.56
1:W:517:GLY:O	1:W:518:SER:O	2.23	0.56
1:d:575:SER:HB3	1:d:578:THR:HG23	1.87	0.56
1:n:575:SER:HB3	1:n:578:THR:HG23	1.87	0.56
1:5:575:SER:HB3	1:5:578:THR:HG23	1.87	0.56
1:8:517:GLY:O	1:8:518:SER:O	2.23	0.56
1:B:310:GLN:CG	1:g:328:THR:CG2	2.74	0.56
1:J:575:SER:HB3	1:J:578:THR:HG23	1.87	0.56
1:L:575:SER:HB3	1:L:578:THR:HG23	1.87	0.56
1:U:517:GLY:O	1:U:518:SER:O	2.23	0.56
1:a:517:GLY:O	1:a:518:SER:O	2.23	0.56
1:h:517:GLY:O	1:h:518:SER:O	2.23	0.56
1:q:310:GLN:CG	1:v:328:THR:CG2	2.74	0.56
1:y:575:SER:HB3	1:y:578:THR:HG23	1.87	0.56
1:z:575:SER:HB3	1:z:578:THR:HG23	1.87	0.56
1:D:575:SER:HB3	1:D:578:THR:HG23	1.87	0.55
1:X:575:SER:HB3	1:X:578:THR:HG23	1.87	0.55
1:j:575:SER:HB3	1:j:578:THR:HG23	1.87	0.55
1:o:400:ASN:HD21	1:u:214:ALA:H	1.54	0.55
1:q:214:ALA:H	1:v:400:ASN:HD21	1.54	0.55
1:w:310:GLN:CG	1:2:328:THR:CG2	2.74	0.55
1:1:400:ASN:HD21	1:7:214:ALA:H	1.54	0.55
1:Z:214:ALA:H	1:m:400:ASN:HD21	1.54	0.55
1:a:400:ASN:HD21	1:l:214:ALA:H	1.54	0.55
1:r:575:SER:HB3	1:r:578:THR:HG23	1.87	0.55
1:s:214:ALA:H	1:w:400:ASN:HD21	1.54	0.55
1:3:214:ALA:H	1:8:400:ASN:HD21	1.54	0.55
1:F:400:ASN:HD21	1:e:214:ALA:H	1.54	0.55
1:N:400:ASN:HD21	1:6:214:ALA:H	1.54	0.55
1:T:328:THR:CG2	1:z:310:GLN:CG	2.74	0.55
1:Z:400:ASN:HD21	1:t:214:ALA:H	1.54	0.55
1:b:575:SER:HB3	1:b:578:THR:HG23	1.87	0.55
1:i:214:ALA:H	1:7:400:ASN:HD21	1.54	0.55
1:k:214:ALA:H	1:p:400:ASN:HD21	1.54	0.55
1:n:400:ASN:HD21	1:p:214:ALA:H	1.54	0.55
1:v:575:SER:HB3	1:v:578:THR:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:400:ASN:HD21	1:X:214:ALA:H	1.54	0.55
1:w:214:ALA:H	1:2:400:ASN:HD21	1.54	0.55
1:A:575:SER:HB3	1:A:578:THR:HG23	1.87	0.55
1:o:328:THR:CG2	1:u:310:GLN:CG	2.74	0.55
1:o:575:SER:HB3	1:o:578:THR:HG23	1.87	0.55
1:D:326:ASN:ND2	1:F:325:ASN:ND2	2.55	0.55
1:E:325:ASN:ND2	1:c:326:ASN:ND2	2.55	0.55
1:J:325:ASN:ND2	1:f:326:ASN:ND2	2.55	0.55
1:M:214:ALA:H	1:R:400:ASN:HD21	1.54	0.55
1:P:325:ASN:ND2	1:4:326:ASN:ND2	2.55	0.55
1:P:575:SER:HB3	1:P:578:THR:HG23	1.87	0.55
1:U:325:ASN:ND2	1:Y:326:ASN:ND2	2.55	0.55
1:k:325:ASN:ND2	1:p:326:ASN:ND2	2.55	0.55
1:n:328:THR:CG2	1:p:310:GLN:CG	2.74	0.55
1:E:326:ASN:ND2	1:K:325:ASN:ND2	2.55	0.55
1:E:575:SER:HB3	1:E:578:THR:HG23	1.87	0.55
1:G:214:ALA:H	1:L:400:ASN:HD21	1.54	0.55
1:H:326:ASN:ND2	1:h:325:ASN:ND2	2.55	0.55
1:J:214:ALA:H	1:f:400:ASN:HD21	1.54	0.55
1:K:326:ASN:ND2	1:Q:325:ASN:ND2	2.55	0.55
1:K:400:ASN:HD21	1:Q:214:ALA:H	1.54	0.55
1:N:325:ASN:ND2	1:y:326:ASN:ND2	2.55	0.55
1:O:214:ALA:H	1:S:400:ASN:HD21	1.54	0.55
1:P:326:ASN:ND2	1:R:325:ASN:ND2	2.55	0.55
1:V:326:ASN:ND2	1:X:325:ASN:ND2	2.55	0.55
1:a:325:ASN:ND2	1:e:326:ASN:ND2	2.55	0.55
1:s:325:ASN:ND2	1:w:326:ASN:ND2	2.55	0.55
1:6:326:ASN:ND2	1:8:325:ASN:ND2	2.55	0.55
1:M:325:ASN:ND2	1:R:326:ASN:ND2	2.55	0.55
1:O:325:ASN:ND2	1:S:326:ASN:ND2	2.55	0.55
1:T:214:ALA:H	1:s:400:ASN:HD21	1.54	0.55
1:g:214:ALA:H	1:k:400:ASN:HD21	1.54	0.55
1:I:214:ALA:H	1:M:400:ASN:HD21	1.54	0.55
1:I:400:ASN:HD21	1:4:214:ALA:H	1.54	0.55
1:Q:400:ASN:HD21	1:W:214:ALA:H	1.54	0.55
1:W:400:ASN:HD21	1:c:214:ALA:H	1.54	0.55
1:b:326:ASN:ND2	1:d:325:ASN:ND2	2.55	0.55
1:A:326:ASN:ND2	1:5:325:ASN:ND2	2.55	0.55
1:B:400:ASN:HD21	1:n:214:ALA:H	1.54	0.55
1:Z:325:ASN:ND2	1:m:326:ASN:ND2	2.55	0.55
1:z:400:ASN:HD21	1:2:214:ALA:H	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:400:ASN:HD21	1:8:214:ALA:H	1.54	0.55
1:a:214:ALA:H	1:e:400:ASN:HD21	1.54	0.54
1:m:325:ASN:ND2	1:q:326:ASN:ND2	2.55	0.54
1:1:326:ASN:ND2	1:7:325:ASN:ND2	2.55	0.54
1:A:400:ASN:HD21	1:5:214:ALA:H	1.54	0.54
1:B:326:ASN:ND2	1:n:325:ASN:ND2	2.55	0.54
1:C:325:ASN:ND2	1:G:326:ASN:ND2	2.55	0.54
1:H:325:ASN:ND2	1:5:326:ASN:ND2	2.55	0.54
1:O:326:ASN:ND2	1:x:325:ASN:ND2	2.55	0.54
1:Y:325:ASN:ND2	1:d:326:ASN:ND2	2.55	0.54
1:a:326:ASN:ND2	1:l:325:ASN:ND2	2.55	0.54
1:b:400:ASN:HD21	1:d:214:ALA:H	1.54	0.54
1:u:326:ASN:ND2	1:1:325:ASN:ND2	2.55	0.54
1:z:326:ASN:ND2	1:2:325:ASN:ND2	2.55	0.54
1:W:326:ASN:ND2	1:c:325:ASN:ND2	2.55	0.54
1:a:328:THR:CG2	1:l:310:GLN:CG	2.74	0.54
1:w:325:ASN:ND2	1:2:326:ASN:ND2	2.55	0.54
1:3:325:ASN:ND2	1:8:326:ASN:ND2	2.55	0.54
1:I:326:ASN:ND2	1:4:325:ASN:ND2	2.55	0.54
1:l:462:LYS:H	1:m:506:PRO:CD	2.21	0.54
1:n:326:ASN:ND2	1:p:325:ASN:ND2	2.55	0.54
1:3:310:GLN:CG	1:8:328:THR:CG2	2.74	0.54
1:B:462:LYS:H	1:C:506:PRO:CD	2.21	0.54
1:C:400:ASN:HD21	1:f:214:ALA:H	1.54	0.54
1:D:214:ALA:H	1:l:400:ASN:HD21	1.54	0.54
1:H:462:LYS:H	1:I:506:PRO:CD	2.21	0.54
1:N:462:LYS:H	1:O:506:PRO:CD	2.21	0.54
1:R:462:LYS:H	1:S:506:PRO:CD	2.21	0.54
1:U:462:LYS:H	1:V:506:PRO:CD	2.21	0.54
1:V:214:ALA:H	1:x:400:ASN:HD21	1.54	0.54
1:W:506:PRO:CD	1:Y:462:LYS:H	2.21	0.54
1:1:506:PRO:CD	1:3:462:LYS:H	2.21	0.54
1:F:462:LYS:H	1:G:506:PRO:CD	2.21	0.54
1:I:462:LYS:H	1:J:506:PRO:CD	2.21	0.54
1:K:462:LYS:H	1:L:506:PRO:CD	2.21	0.54
1:Q:326:ASN:ND2	1:W:325:ASN:ND2	2.55	0.54
1:T:506:PRO:CD	1:V:462:LYS:H	2.21	0.54
1:f:462:LYS:H	1:g:506:PRO:CD	2.21	0.54
1:f:506:PRO:CD	1:h:462:LYS:H	2.21	0.54
1:x:506:PRO:CD	1:z:462:LYS:H	2.21	0.54
1:B:506:PRO:CD	1:D:462:LYS:H	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:400:ASN:HD21	1:K:214:ALA:H	1.54	0.54
1:H:575:SER:HB3	1:H:578:THR:HG23	1.87	0.54
1:I:325:ASN:ND2	1:M:326:ASN:ND2	2.55	0.54
1:Q:462:LYS:H	1:R:506:PRO:CD	2.21	0.54
1:W:462:LYS:H	1:X:506:PRO:CD	2.21	0.54
1:Y:575:SER:HB3	1:Y:578:THR:HG23	1.87	0.54
1:g:462:LYS:H	1:h:506:PRO:CD	2.21	0.54
1:l:506:PRO:CD	1:n:462:LYS:H	2.21	0.54
1:m:462:LYS:H	1:n:506:PRO:CD	2.21	0.54
1:y:214:ALA:H	1:3:400:ASN:HD21	1.54	0.54
1:y:462:LYS:H	1:z:506:PRO:CD	2.21	0.54
1:1:462:LYS:H	1:2:506:PRO:CD	2.21	0.54
1:I:251:LYS:HD3	1:I:377:GLU:HB2	1.90	0.54
1:K:506:PRO:CD	1:M:462:LYS:H	2.21	0.54
1:P:400:ASN:HD21	1:R:214:ALA:H	1.54	0.54
1:T:462:LYS:H	1:U:506:PRO:CD	2.21	0.54
1:W:251:LYS:HD3	1:W:377:GLU:HB2	1.90	0.54
1:Z:506:PRO:CD	1:b:462:LYS:H	2.21	0.54
1:2:462:LYS:H	1:3:506:PRO:CD	2.21	0.54
1:A:462:LYS:H	1:7:506:PRO:CD	2.21	0.54
1:C:462:LYS:H	1:D:506:PRO:CD	2.21	0.54
1:E:506:PRO:CD	1:G:462:LYS:H	2.21	0.54
1:H:400:ASN:HD21	1:h:214:ALA:H	1.54	0.54
1:K:251:LYS:HD3	1:K:377:GLU:HB2	1.90	0.54
1:O:400:ASN:HD21	1:x:214:ALA:H	1.54	0.54
1:R:251:LYS:HD3	1:R:377:GLU:HB2	1.90	0.54
1:X:251:LYS:HD3	1:X:377:GLU:HB2	1.90	0.54
1:b:325:ASN:ND2	1:r:326:ASN:ND2	2.55	0.54
1:o:326:ASN:ND2	1:u:325:ASN:ND2	2.55	0.54
1:t:326:ASN:ND2	1:v:325:ASN:ND2	2.55	0.54
1:t:400:ASN:HD21	1:v:214:ALA:H	1.54	0.54
1:C:214:ALA:H	1:G:400:ASN:HD21	1.54	0.54
1:D:400:ASN:HD21	1:F:214:ALA:H	1.54	0.54
1:J:251:LYS:HD3	1:J:377:GLU:HB2	1.90	0.54
1:L:251:LYS:HD3	1:L:377:GLU:HB2	1.90	0.54
1:O:462:LYS:H	1:P:506:PRO:CD	2.21	0.54
1:S:251:LYS:HD3	1:S:377:GLU:HB2	1.90	0.54
1:U:400:ASN:HD21	1:r:214:ALA:H	1.54	0.54
1:h:400:ASN:HD21	1:j:214:ALA:H	1.54	0.54
1:i:326:ASN:ND2	1:o:325:ASN:ND2	2.55	0.54
1:i:506:PRO:CD	1:k:462:LYS:H	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:462:LYS:H	1:k:506:PRO:CD	2.21	0.54
1:q:325:ASN:ND2	1:v:326:ASN:ND2	2.55	0.54
1:x:462:LYS:H	1:y:506:PRO:CD	2.21	0.54
1:4:462:LYS:H	1:5:506:PRO:CD	2.21	0.54
1:5:462:LYS:H	1:6:506:PRO:CD	2.21	0.54
1:A:214:ALA:H	1:j:400:ASN:HD21	1.54	0.53
1:A:325:ASN:ND2	1:j:326:ASN:ND2	2.55	0.53
1:M:251:LYS:HD3	1:M:377:GLU:HB2	1.90	0.53
1:N:214:ALA:H	1:y:400:ASN:HD21	1.54	0.53
1:N:506:PRO:CD	1:P:462:LYS:H	2.21	0.53
1:Q:251:LYS:HD3	1:Q:377:GLU:HB2	1.90	0.53
1:U:214:ALA:H	1:Y:400:ASN:HD21	1.54	0.53
1:b:214:ALA:H	1:r:400:ASN:HD21	1.54	0.53
1:c:251:LYS:HD3	1:c:377:GLU:HB2	1.90	0.53
1:c:462:LYS:H	1:d:506:PRO:CD	2.21	0.53
1:d:462:LYS:H	1:e:506:PRO:CD	2.21	0.53
1:i:400:ASN:HD21	1:o:214:ALA:H	1.54	0.53
1:r:462:LYS:H	1:s:506:PRO:CD	2.21	0.53
1:s:462:LYS:H	1:t:506:PRO:CD	2.21	0.53
1:4:251:LYS:HD3	1:4:377:GLU:HB2	1.90	0.53
1:7:462:LYS:H	1:8:506:PRO:CD	2.21	0.53
1:H:214:ALA:H	1:5:400:ASN:HD21	1.54	0.53
1:V:251:LYS:HD3	1:V:377:GLU:HB2	1.90	0.53
1:Z:462:LYS:H	1:a:506:PRO:CD	2.21	0.53
1:i:462:LYS:H	1:j:506:PRO:CD	2.21	0.53
1:o:462:LYS:H	1:p:506:PRO:CD	2.21	0.53
1:E:462:LYS:H	1:F:506:PRO:CD	2.21	0.53
1:M:684:ASN:HD22	1:M:684:ASN:H	1.57	0.53
1:c:506:PRO:CD	1:e:462:LYS:H	2.21	0.53
1:f:251:LYS:HD3	1:f:377:GLU:HB2	1.90	0.53
1:n:251:LYS:HD3	1:n:377:GLU:HB2	1.90	0.53
1:q:251:LYS:HD3	1:q:377:GLU:HB2	1.90	0.53
1:r:506:PRO:CD	1:t:462:LYS:H	2.21	0.53
1:2:251:LYS:HD3	1:2:377:GLU:HB2	1.90	0.53
1:4:506:PRO:CD	1:6:462:LYS:H	2.21	0.53
1:6:251:LYS:HD3	1:6:377:GLU:HB2	1.90	0.53
1:D:251:LYS:HD3	1:D:377:GLU:HB2	1.90	0.53
1:F:684:ASN:H	1:F:684:ASN:HD22	1.57	0.53
1:N:684:ASN:H	1:N:684:ASN:HD22	1.57	0.53
1:P:214:ALA:H	1:4:400:ASN:HD21	1.54	0.53
1:Q:684:ASN:H	1:Q:684:ASN:HD22	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:214:ALA:H	1:d:400:ASN:HD21	1.54	0.53
1:e:251:LYS:HD3	1:e:377:GLU:HB2	1.90	0.53
1:u:251:LYS:HD3	1:u:377:GLU:HB2	1.90	0.53
1:u:462:LYS:H	1:v:506:PRO:CD	2.21	0.53
1:v:462:LYS:H	1:w:506:PRO:CD	2.21	0.53
1:w:684:ASN:H	1:w:684:ASN:HD22	1.57	0.53
1:5:251:LYS:HD3	1:5:377:GLU:HB2	1.90	0.53
1:B:214:ALA:H	1:g:400:ASN:HD21	1.54	0.53
1:E:214:ALA:H	1:c:400:ASN:HD21	1.54	0.53
1:H:251:LYS:HD3	1:H:377:GLU:HB2	1.90	0.53
1:S:684:ASN:HD22	1:S:684:ASN:H	1.57	0.53
1:T:400:ASN:HD21	1:z:214:ALA:H	1.54	0.53
1:Y:251:LYS:HD3	1:Y:377:GLU:HB2	1.90	0.53
1:d:251:LYS:HD3	1:d:377:GLU:HB2	1.90	0.53
1:m:684:ASN:HD22	1:m:684:ASN:H	1.57	0.53
1:p:684:ASN:HD22	1:p:684:ASN:H	1.57	0.53
1:y:251:LYS:HD3	1:y:377:GLU:HB2	1.90	0.53
1:1:251:LYS:HD3	1:1:377:GLU:HB2	1.90	0.53
1:1:684:ASN:H	1:1:684:ASN:HD22	1.57	0.53
1:L:684:ASN:H	1:L:684:ASN:HD22	1.57	0.53
1:j:251:LYS:HD3	1:j:377:GLU:HB2	1.90	0.53
1:m:251:LYS:HD3	1:m:377:GLU:HB2	1.90	0.53
1:o:506:PRO:CD	1:q:462:LYS:H	2.21	0.53
1:p:462:LYS:H	1:q:506:PRO:CD	2.21	0.53
1:r:684:ASN:H	1:r:684:ASN:HD22	1.57	0.53
1:v:251:LYS:HD3	1:v:377:GLU:HB2	1.90	0.53
1:7:251:LYS:HD3	1:7:377:GLU:HB2	1.90	0.53
1:Z:251:LYS:HD3	1:Z:377:GLU:HB2	1.90	0.53
1:h:684:ASN:HD22	1:h:684:ASN:H	1.57	0.53
1:j:684:ASN:H	1:j:684:ASN:HD22	1.57	0.53
1:l:251:LYS:HD3	1:l:377:GLU:HB2	1.90	0.53
1:o:251:LYS:HD3	1:o:377:GLU:HB2	1.90	0.53
1:u:506:PRO:CD	1:w:462:LYS:H	2.21	0.53
1:x:684:ASN:HD22	1:x:684:ASN:H	1.57	0.53
1:C:684:ASN:HD22	1:C:684:ASN:H	1.57	0.53
1:D:325:ASN:ND2	1:l:326:ASN:ND2	2.55	0.53
1:G:684:ASN:H	1:G:684:ASN:HD22	1.57	0.53
1:H:506:PRO:CD	1:J:462:LYS:H	2.21	0.53
1:I:684:ASN:H	1:I:684:ASN:HD22	1.57	0.53
1:O:684:ASN:H	1:O:684:ASN:HD22	1.57	0.53
1:U:684:ASN:HD22	1:U:684:ASN:H	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:684:ASN:H	1:W:684:ASN:HD22	1.57	0.53
1:X:462:LYS:H	1:Y:506:PRO:CD	2.21	0.53
1:Z:326:ASN:ND2	1:t:325:ASN:ND2	2.55	0.53
1:Z:328:THR:CG2	1:t:310:GLN:CG	2.74	0.53
1:a:462:LYS:H	1:b:506:PRO:CD	2.21	0.53
1:g:251:LYS:HD3	1:g:377:GLU:HB2	1.90	0.53
1:r:251:LYS:HD3	1:r:377:GLU:HB2	1.90	0.53
1:3:251:LYS:HD3	1:3:377:GLU:HB2	1.90	0.53
1:F:326:ASN:ND2	1:e:325:ASN:ND2	2.55	0.53
1:O:251:LYS:HD3	1:O:377:GLU:HB2	1.90	0.53
1:S:325:ASN:ND2	1:X:326:ASN:ND2	2.55	0.53
1:c:684:ASN:HD22	1:c:684:ASN:H	1.57	0.53
1:i:310:GLN:CG	1:7:328:THR:CG2	2.74	0.53
1:i:325:ASN:ND2	1:7:326:ASN:ND2	2.55	0.53
1:m:310:GLN:CG	1:q:328:THR:CG2	2.74	0.53
1:p:251:LYS:HD3	1:p:377:GLU:HB2	1.90	0.53
1:w:251:LYS:HD3	1:w:377:GLU:HB2	1.90	0.53
1:z:251:LYS:HD3	1:z:377:GLU:HB2	1.90	0.53
1:4:684:ASN:H	1:4:684:ASN:HD22	1.57	0.53
1:A:506:PRO:CD	1:8:462:LYS:H	2.21	0.53
1:B:251:LYS:HD3	1:B:377:GLU:HB2	1.90	0.53
1:D:310:GLN:CG	1:l:328:THR:CG2	2.74	0.53
1:K:687:ILE:HD11	1:L:381:GLU:HB2	1.91	0.53
1:P:684:ASN:HD22	1:P:684:ASN:H	1.57	0.53
1:R:687:ILE:HD11	1:S:381:GLU:HB2	1.91	0.53
1:T:251:LYS:HD3	1:T:377:GLU:HB2	1.90	0.53
1:U:251:LYS:HD3	1:U:377:GLU:HB2	1.90	0.53
1:V:325:ASN:ND2	1:x:326:ASN:ND2	2.55	0.53
1:V:684:ASN:HD22	1:V:684:ASN:H	1.57	0.53
1:h:251:LYS:HD3	1:h:377:GLU:HB2	1.90	0.53
1:j:687:ILE:HD11	1:k:381:GLU:HB2	1.91	0.53
1:r:687:ILE:HD11	1:s:381:GLU:HB2	1.91	0.53
1:C:251:LYS:HD3	1:C:377:GLU:HB2	1.90	0.52
1:E:684:ASN:HD22	1:E:684:ASN:H	1.57	0.52
1:F:328:THR:CG2	1:e:310:GLN:CG	2.74	0.52
1:G:251:LYS:HD3	1:G:377:GLU:HB2	1.90	0.52
1:J:326:ASN:ND2	1:L:325:ASN:ND2	2.55	0.52
1:a:687:ILE:HD11	1:b:381:GLU:HB2	1.91	0.52
1:u:381:GLU:HB2	1:w:687:ILE:HD11	1.91	0.52
1:y:310:GLN:CG	1:3:328:THR:CG2	2.74	0.52
1:y:325:ASN:ND2	1:3:326:ASN:ND2	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:684:ASN:H	1:6:684:ASN:HD22	1.57	0.52
1:A:381:GLU:HB2	1:8:687:ILE:HD11	1.91	0.52
1:C:326:ASN:ND2	1:f:325:ASN:ND2	2.55	0.52
1:L:687:ILE:HD11	1:M:381:GLU:HB2	1.91	0.52
1:N:326:ASN:ND2	1:6:325:ASN:ND2	2.55	0.52
1:Q:381:GLU:HB2	1:S:687:ILE:HD11	1.91	0.52
1:a:684:ASN:H	1:a:684:ASN:HD22	1.57	0.52
1:f:684:ASN:HD22	1:f:684:ASN:H	1.57	0.52
1:p:687:ILE:HD11	1:q:381:GLU:HB2	1.91	0.52
1:8:684:ASN:HD22	1:8:684:ASN:H	1.57	0.52
1:A:251:LYS:HD3	1:A:377:GLU:HB2	1.90	0.52
1:H:381:GLU:HB2	1:J:687:ILE:HD11	1.91	0.52
1:P:251:LYS:HD3	1:P:377:GLU:HB2	1.90	0.52
1:Q:506:PRO:CD	1:S:462:LYS:H	2.21	0.52
1:Y:684:ASN:H	1:Y:684:ASN:HD22	1.57	0.52
1:e:684:ASN:HD22	1:e:684:ASN:H	1.57	0.52
1:h:326:ASN:ND2	1:j:325:ASN:ND2	2.55	0.52
1:q:684:ASN:H	1:q:684:ASN:HD22	1.57	0.52
1:u:684:ASN:H	1:u:684:ASN:HD22	1.57	0.52
1:x:251:LYS:HD3	1:x:377:GLU:HB2	1.90	0.52
1:H:684:ASN:HD22	1:H:684:ASN:H	1.57	0.52
1:L:462:LYS:H	1:M:506:PRO:CD	2.21	0.52
1:U:326:ASN:ND2	1:r:325:ASN:ND2	2.55	0.52
1:X:687:ILE:HD11	1:Y:381:GLU:HB2	1.91	0.52
1:b:251:LYS:HD3	1:b:377:GLU:HB2	1.90	0.52
1:u:328:THR:CG2	1:1:310:GLN:CG	2.74	0.52
1:5:684:ASN:HD22	1:5:684:ASN:H	1.57	0.52
1:E:251:LYS:HD3	1:E:377:GLU:HB2	1.90	0.52
1:G:325:ASN:ND2	1:L:326:ASN:ND2	2.55	0.52
1:N:251:LYS:HD3	1:N:377:GLU:HB2	1.90	0.52
1:f:687:ILE:HD11	1:g:381:GLU:HB2	1.91	0.52
1:i:251:LYS:HD3	1:i:377:GLU:HB2	1.90	0.52
1:o:687:ILE:HD11	1:p:381:GLU:HB2	1.91	0.52
1:v:687:ILE:HD11	1:w:381:GLU:HB2	1.91	0.52
1:B:325:ASN:ND2	1:g:326:ASN:ND2	2.55	0.52
1:F:687:ILE:HD11	1:G:381:GLU:HB2	1.91	0.52
1:N:328:THR:CG2	1:6:310:GLN:CG	2.74	0.52
1:N:687:ILE:HD11	1:O:381:GLU:HB2	1.91	0.52
1:T:325:ASN:ND2	1:s:326:ASN:ND2	2.55	0.52
1:T:381:GLU:HB2	1:V:687:ILE:HD11	1.91	0.52
1:Y:310:GLN:CG	1:d:328:THR:CG2	2.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:251:LYS:HD3	1:a:377:GLU:HB2	1.90	0.52
1:d:684:ASN:H	1:d:684:ASN:HD22	1.57	0.52
1:d:687:ILE:HD11	1:e:381:GLU:HB2	1.91	0.52
1:C:328:THR:CG2	1:f:310:GLN:CG	2.74	0.52
1:F:251:LYS:HD3	1:F:377:GLU:HB2	1.90	0.52
1:H:310:GLN:CG	1:5:328:THR:CG2	2.74	0.52
1:I:687:ILE:HD11	1:J:381:GLU:HB2	1.91	0.52
1:K:684:ASN:HD22	1:K:684:ASN:H	1.57	0.52
1:T:326:ASN:ND2	1:z:325:ASN:ND2	2.55	0.52
1:V:310:GLN:CG	1:x:328:THR:CG2	2.74	0.52
1:W:687:ILE:HD11	1:X:381:GLU:HB2	1.91	0.52
1:g:684:ASN:H	1:g:684:ASN:HD22	1.57	0.52
1:l:684:ASN:H	1:l:684:ASN:HD22	1.57	0.52
1:t:251:LYS:HD3	1:t:377:GLU:HB2	1.90	0.52
1:2:687:ILE:HD11	1:3:381:GLU:HB2	1.91	0.52
1:5:687:ILE:HD11	1:6:381:GLU:HB2	1.91	0.52
1:8:251:LYS:HD3	1:8:377:GLU:HB2	1.90	0.52
1:R:684:ASN:HD22	1:R:684:ASN:H	1.57	0.52
1:T:684:ASN:H	1:T:684:ASN:HD22	1.57	0.52
1:W:381:GLU:HB2	1:Y:687:ILE:HD11	1.91	0.52
1:l:381:GLU:HB2	1:n:687:ILE:HD11	1.91	0.52
1:o:381:GLU:HB2	1:q:687:ILE:HD11	1.91	0.52
1:o:684:ASN:H	1:o:684:ASN:HD22	1.57	0.52
1:u:687:ILE:HD11	1:v:381:GLU:HB2	1.91	0.52
1:3:684:ASN:H	1:3:684:ASN:HD22	1.57	0.52
1:7:684:ASN:H	1:7:684:ASN:HD22	1.57	0.52
1:H:687:ILE:HD11	1:I:381:GLU:HB2	1.91	0.52
1:Z:684:ASN:H	1:Z:684:ASN:HD22	1.57	0.52
1:g:325:ASN:ND2	1:k:326:ASN:ND2	2.55	0.52
1:i:687:ILE:HD11	1:j:381:GLU:HB2	1.91	0.52
1:s:684:ASN:HD22	1:s:684:ASN:H	1.57	0.52
1:v:436:TYR:CG	1:w:547:MET:HE1	2.45	0.52
1:B:687:ILE:HD11	1:C:381:GLU:HB2	1.91	0.52
1:k:684:ASN:HD22	1:k:684:ASN:H	1.57	0.52
1:o:436:TYR:CG	1:p:547:MET:HE1	2.45	0.52
1:o:547:MET:HE1	1:q:436:TYR:CG	2.45	0.52
1:s:687:ILE:HD11	1:t:381:GLU:HB2	1.91	0.52
1:u:436:TYR:CG	1:v:547:MET:HE1	2.45	0.52
1:v:684:ASN:HD22	1:v:684:ASN:H	1.57	0.52
1:y:687:ILE:HD11	1:z:381:GLU:HB2	1.91	0.52
1:J:310:GLN:CG	1:f:328:THR:CG2	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:328:THR:CG2	1:W:310:GLN:CG	2.74	0.51
1:T:436:TYR:CG	1:U:547:MET:HE1	2.45	0.51
1:T:687:ILE:HD11	1:U:381:GLU:HB2	1.91	0.51
1:c:436:TYR:CG	1:d:547:MET:HE1	2.45	0.51
1:c:547:MET:HE1	1:e:436:TYR:CG	2.45	0.51
1:f:381:GLU:HB2	1:h:687:ILE:HD11	1.91	0.51
1:g:436:TYR:CG	1:h:547:MET:HE1	2.45	0.51
1:r:381:GLU:HB2	1:t:687:ILE:HD11	1.91	0.51
1:x:381:GLU:HB2	1:z:687:ILE:HD11	1.91	0.51
1:1:547:MET:HE1	1:3:436:TYR:CG	2.45	0.51
1:4:381:GLU:HB2	1:6:687:ILE:HD11	1.91	0.51
1:4:436:TYR:CG	1:5:547:MET:HE1	2.45	0.51
1:A:684:ASN:H	1:A:684:ASN:HD22	1.57	0.51
1:B:381:GLU:HB2	1:D:687:ILE:HD11	1.91	0.51
1:F:436:TYR:CG	1:G:547:MET:HE1	2.45	0.51
1:I:436:TYR:CG	1:J:547:MET:HE1	2.45	0.51
1:J:684:ASN:HD22	1:J:684:ASN:H	1.57	0.51
1:N:436:TYR:CG	1:O:547:MET:HE1	2.45	0.51
1:X:684:ASN:HD22	1:X:684:ASN:H	1.57	0.51
1:Z:436:TYR:CG	1:a:547:MET:HE1	2.45	0.51
1:c:381:GLU:HB2	1:e:687:ILE:HD11	1.91	0.51
1:g:687:ILE:HD11	1:h:381:GLU:HB2	1.91	0.51
1:i:381:GLU:HB2	1:k:687:ILE:HD11	1.91	0.51
1:i:547:MET:HE1	1:k:436:TYR:CG	2.45	0.51
1:l:436:TYR:CG	1:m:547:MET:HE1	2.45	0.51
1:m:687:ILE:HD11	1:n:381:GLU:HB2	1.91	0.51
1:n:684:ASN:HD22	1:n:684:ASN:H	1.57	0.51
1:p:436:TYR:CG	1:q:547:MET:HE1	2.45	0.51
1:s:436:TYR:CG	1:t:547:MET:HE1	2.45	0.51
1:u:547:MET:HE1	1:w:436:TYR:CG	2.45	0.51
1:x:436:TYR:CG	1:y:547:MET:HE1	2.45	0.51
1:1:687:ILE:HD11	1:2:381:GLU:HB2	1.91	0.51
1:2:684:ASN:HD22	1:2:684:ASN:H	1.57	0.51
1:4:547:MET:HE1	1:6:436:TYR:CG	2.45	0.51
1:7:436:TYR:CG	1:8:547:MET:HE1	2.45	0.51
1:C:436:TYR:CG	1:D:547:MET:HE1	2.45	0.51
1:C:687:ILE:HD11	1:D:381:GLU:HB2	1.91	0.51
1:N:381:GLU:HB2	1:P:687:ILE:HD11	1.91	0.51
1:U:687:ILE:HD11	1:V:381:GLU:HB2	1.91	0.51
1:W:436:TYR:CG	1:X:547:MET:HE1	2.45	0.51
1:b:684:ASN:H	1:b:684:ASN:HD22	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:684:ASN:HD22	1:y:684:ASN:H	1.57	0.51
1:B:684:ASN:HD22	1:B:684:ASN:H	1.57	0.51
1:D:684:ASN:H	1:D:684:ASN:HD22	1.57	0.51
1:E:687:ILE:HD11	1:F:381:GLU:HB2	1.91	0.51
1:I:310:GLN:CG	1:M:328:THR:CG2	2.74	0.51
1:K:381:GLU:HB2	1:M:687:ILE:HD11	1.91	0.51
1:Z:460:THR:O	1:a:505:PRO:HD2	2.11	0.51
1:d:436:TYR:CG	1:e:547:MET:HE1	2.45	0.51
1:H:547:MET:HE1	1:J:436:TYR:CG	2.45	0.51
1:O:328:THR:CG2	1:x:310:GLN:CG	2.74	0.51
1:Q:687:ILE:HD11	1:R:381:GLU:HB2	1.91	0.51
1:V:328:THR:CG2	1:X:310:GLN:CG	2.74	0.51
1:X:436:TYR:CG	1:Y:547:MET:HE1	2.45	0.51
1:Z:547:MET:HE1	1:b:436:TYR:CG	2.45	0.51
1:Z:687:ILE:HD11	1:a:381:GLU:HB2	1.91	0.51
1:c:505:PRO:HD2	1:e:460:THR:O	2.11	0.51
1:g:310:GLN:CG	1:k:328:THR:CG2	2.74	0.51
1:k:251:LYS:HD3	1:k:377:GLU:HB2	1.90	0.51
1:l:687:ILE:HD11	1:m:381:GLU:HB2	1.91	0.51
1:p:460:THR:O	1:q:505:PRO:HD2	2.11	0.51
1:s:251:LYS:HD3	1:s:377:GLU:HB2	1.90	0.51
1:u:505:PRO:HD2	1:w:460:THR:O	2.11	0.51
1:x:687:ILE:HD11	1:y:381:GLU:HB2	1.91	0.51
1:1:381:GLU:HB2	1:3:687:ILE:HD11	1.91	0.51
1:2:436:TYR:CG	1:3:547:MET:HE1	2.45	0.51
1:5:436:TYR:CG	1:6:547:MET:HE1	2.45	0.51
1:7:460:THR:O	1:8:505:PRO:HD2	2.11	0.51
1:A:436:TYR:CG	1:7:547:MET:HE1	2.45	0.51
1:A:460:THR:O	1:7:505:PRO:HD2	2.11	0.51
1:B:436:TYR:CG	1:C:547:MET:HE1	2.45	0.51
1:H:505:PRO:HD2	1:J:460:THR:O	2.11	0.51
1:K:460:THR:O	1:L:505:PRO:HD2	2.11	0.51
1:K:547:MET:HE1	1:M:436:TYR:CG	2.45	0.51
1:Q:436:TYR:CG	1:R:547:MET:HE1	2.45	0.51
1:b:310:GLN:CG	1:r:328:THR:CG2	2.74	0.51
1:d:460:THR:O	1:e:505:PRO:HD2	2.11	0.51
1:g:712:THR:HG22	1:g:713:ARG:HG2	1.93	0.51
1:l:505:PRO:HD2	1:n:460:THR:O	2.11	0.51
1:l:547:MET:HE1	1:n:436:TYR:CG	2.45	0.51
1:x:547:MET:HE1	1:z:436:TYR:CG	2.45	0.51
1:z:684:ASN:H	1:z:684:ASN:HD22	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:505:PRO:HD2	1:6:460:THR:O	2.11	0.51
1:5:460:THR:O	1:6:505:PRO:HD2	2.11	0.51
1:D:712:THR:HG22	1:D:713:ARG:HG2	1.93	0.51
1:R:460:THR:O	1:S:505:PRO:HD2	2.11	0.51
1:T:712:THR:HG22	1:T:713:ARG:HG2	1.93	0.51
1:W:460:THR:O	1:X:505:PRO:HD2	2.11	0.51
1:X:460:THR:O	1:Y:505:PRO:HD2	2.11	0.51
1:Z:505:PRO:HD2	1:b:460:THR:O	2.11	0.51
1:Z:712:THR:HG22	1:Z:713:ARG:HG2	1.93	0.51
1:i:436:TYR:CG	1:j:547:MET:HE1	2.45	0.51
1:i:684:ASN:H	1:i:684:ASN:HD22	1.57	0.51
1:r:547:MET:HE1	1:t:436:TYR:CG	2.45	0.51
1:s:460:THR:O	1:t:505:PRO:HD2	2.11	0.51
1:y:712:THR:HG22	1:y:713:ARG:HG2	1.93	0.51
1:2:460:THR:O	1:3:505:PRO:HD2	2.11	0.51
1:7:687:ILE:HD11	1:8:381:GLU:HB2	1.91	0.51
1:7:712:THR:HG22	1:7:713:ARG:HG2	1.93	0.51
1:E:547:MET:HE1	1:G:436:TYR:CG	2.45	0.51
1:H:436:TYR:CG	1:I:547:MET:HE1	2.45	0.51
1:I:460:THR:O	1:J:505:PRO:HD2	2.11	0.51
1:O:436:TYR:CG	1:P:547:MET:HE1	2.45	0.51
1:T:460:THR:O	1:U:505:PRO:HD2	2.11	0.51
1:U:328:THR:CG2	1:r:310:GLN:CG	2.74	0.51
1:V:712:THR:HG22	1:V:713:ARG:HG2	1.93	0.51
1:c:687:ILE:HD11	1:d:381:GLU:HB2	1.91	0.51
1:c:712:THR:HG22	1:c:713:ARG:HG2	1.93	0.51
1:f:712:THR:HG22	1:f:713:ARG:HG2	1.93	0.51
1:i:505:PRO:HD2	1:k:460:THR:O	2.11	0.51
1:o:460:THR:O	1:p:505:PRO:HD2	2.11	0.51
1:v:460:THR:O	1:w:505:PRO:HD2	2.11	0.51
1:4:687:ILE:HD11	1:5:381:GLU:HB2	1.91	0.51
1:4:712:THR:HG22	1:4:713:ARG:HG2	1.93	0.51
1:A:547:MET:HE1	1:8:436:TYR:CG	2.45	0.51
1:B:460:THR:O	1:C:505:PRO:HD2	2.11	0.51
1:C:310:GLN:CG	1:G:328:THR:CG2	2.74	0.51
1:Q:460:THR:O	1:R:505:PRO:HD2	2.11	0.51
1:Q:547:MET:HE1	1:S:436:TYR:CG	2.45	0.51
1:R:436:TYR:CG	1:S:547:MET:HE1	2.45	0.51
1:W:547:MET:HE1	1:Y:436:TYR:CG	2.45	0.51
1:g:460:THR:O	1:h:505:PRO:HD2	2.11	0.51
1:i:460:THR:O	1:j:505:PRO:HD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:436:TYR:CG	1:k:547:MET:HE1	2.45	0.51
1:r:505:PRO:HD2	1:t:460:THR:O	2.11	0.51
1:t:684:ASN:H	1:t:684:ASN:HD22	1.57	0.51
1:A:310:GLN:CG	1:j:328:THR:CG2	2.74	0.51
1:B:472:THR:HG23	1:B:562:ALA:HB1	1.93	0.51
1:B:547:MET:HE1	1:D:436:TYR:CG	2.45	0.51
1:B:712:THR:HG22	1:B:713:ARG:HG2	1.93	0.51
1:E:381:GLU:HB2	1:G:687:ILE:HD11	1.91	0.51
1:E:460:THR:O	1:F:505:PRO:HD2	2.11	0.51
1:E:601:VAL:HG23	1:E:717:THR:HG21	1.93	0.51
1:I:712:THR:HG22	1:I:713:ARG:HG2	1.93	0.51
1:K:505:PRO:HD2	1:M:460:THR:O	2.11	0.51
1:P:601:VAL:HG23	1:P:717:THR:HG21	1.93	0.51
1:T:310:GLN:CG	1:s:328:THR:CG2	2.74	0.51
1:W:712:THR:HG22	1:W:713:ARG:HG2	1.93	0.51
1:a:436:TYR:CG	1:b:547:MET:HE1	2.45	0.51
1:j:601:VAL:HG23	1:j:717:THR:HG21	1.93	0.51
1:m:436:TYR:CG	1:n:547:MET:HE1	2.45	0.51
1:p:601:VAL:HG23	1:p:717:THR:HG21	1.93	0.51
1:q:601:VAL:HG23	1:q:717:THR:HG21	1.93	0.51
1:r:436:TYR:CG	1:s:547:MET:HE1	2.45	0.51
1:r:601:VAL:HG23	1:r:717:THR:HG21	1.93	0.51
1:s:712:THR:HG22	1:s:713:ARG:HG2	1.93	0.51
1:t:472:THR:HG23	1:t:562:ALA:HB1	1.94	0.51
1:u:601:VAL:HG23	1:u:717:THR:HG21	1.93	0.51
1:w:601:VAL:HG23	1:w:717:THR:HG21	1.93	0.51
1:x:505:PRO:HD2	1:z:460:THR:O	2.11	0.51
1:y:436:TYR:CG	1:z:547:MET:HE1	2.45	0.51
1:z:472:THR:HG23	1:z:562:ALA:HB1	1.93	0.51
1:1:712:THR:HG22	1:1:713:ARG:HG2	1.93	0.51
1:A:601:VAL:HG23	1:A:717:THR:HG21	1.93	0.50
1:A:687:ILE:HD11	1:7:381:GLU:HB2	1.91	0.50
1:E:436:TYR:CG	1:F:547:MET:HE1	2.45	0.50
1:H:472:THR:HG23	1:H:562:ALA:HB1	1.93	0.50
1:K:436:TYR:CG	1:L:547:MET:HE1	2.45	0.50
1:L:436:TYR:CG	1:M:547:MET:HE1	2.45	0.50
1:T:547:MET:HE1	1:V:436:TYR:CG	2.45	0.50
1:Y:472:THR:HG23	1:Y:562:ALA:HB1	1.93	0.50
1:a:712:THR:HG22	1:a:713:ARG:HG2	1.93	0.50
1:b:601:VAL:HG23	1:b:717:THR:HG21	1.93	0.50
1:i:472:THR:HG23	1:i:562:ALA:HB1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:712:THR:HG22	1:k:713:ARG:HG2	1.93	0.50
1:m:712:THR:HG22	1:m:713:ARG:HG2	1.93	0.50
1:z:712:THR:HG22	1:z:713:ARG:HG2	1.93	0.50
1:1:436:TYR:CG	1:2:547:MET:HE1	2.45	0.50
1:3:601:VAL:HG23	1:3:717:THR:HG21	1.93	0.50
1:5:601:VAL:HG23	1:5:717:THR:HG21	1.93	0.50
1:8:712:THR:HG22	1:8:713:ARG:HG2	1.93	0.50
1:J:712:THR:HG22	1:J:713:ARG:HG2	1.93	0.50
1:L:460:THR:O	1:M:505:PRO:HD2	2.11	0.50
1:N:505:PRO:HD2	1:P:460:THR:O	2.11	0.50
1:N:547:MET:HE1	1:P:436:TYR:CG	2.45	0.50
1:X:601:VAL:HG23	1:X:717:THR:HG21	1.93	0.50
1:X:712:THR:HG22	1:X:713:ARG:HG2	1.93	0.50
1:a:601:VAL:HG23	1:a:717:THR:HG21	1.93	0.50
1:d:601:VAL:HG23	1:d:717:THR:HG21	1.93	0.50
1:f:436:TYR:CG	1:g:547:MET:HE1	2.45	0.50
1:f:547:MET:HE1	1:h:436:TYR:CG	2.45	0.50
1:j:712:THR:HG22	1:j:713:ARG:HG2	1.93	0.50
1:l:601:VAL:HG23	1:l:717:THR:HG21	1.93	0.50
1:q:472:THR:HG23	1:q:562:ALA:HB1	1.93	0.50
1:r:712:THR:HG22	1:r:713:ARG:HG2	1.93	0.50
1:u:472:THR:HG23	1:u:562:ALA:HB1	1.93	0.50
1:v:712:THR:HG22	1:v:713:ARG:HG2	1.93	0.50
1:w:712:THR:HG22	1:w:713:ARG:HG2	1.93	0.50
1:6:601:VAL:HG23	1:6:717:THR:HG21	1.93	0.50
1:8:601:VAL:HG23	1:8:717:THR:HG21	1.93	0.50
1:C:712:THR:HG22	1:C:713:ARG:HG2	1.93	0.50
1:E:505:PRO:HD2	1:G:460:THR:O	2.11	0.50
1:E:712:THR:HG22	1:E:713:ARG:HG2	1.93	0.50
1:J:601:VAL:HG23	1:J:717:THR:HG21	1.93	0.50
1:O:687:ILE:HD11	1:P:381:GLU:HB2	1.91	0.50
1:Q:505:PRO:HD2	1:S:460:THR:O	2.11	0.50
1:d:472:THR:HG23	1:d:562:ALA:HB1	1.93	0.50
1:e:601:VAL:HG23	1:e:717:THR:HG21	1.93	0.50
1:f:472:THR:HG23	1:f:562:ALA:HB1	1.93	0.50
1:i:712:THR:HG22	1:i:713:ARG:HG2	1.93	0.50
1:o:712:THR:HG22	1:o:713:ARG:HG2	1.93	0.50
1:p:712:THR:HG22	1:p:713:ARG:HG2	1.93	0.50
1:t:712:THR:HG22	1:t:713:ARG:HG2	1.93	0.50
1:x:712:THR:HG22	1:x:713:ARG:HG2	1.93	0.50
1:1:460:THR:O	1:2:505:PRO:HD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:472:THR:HG23	1:7:562:ALA:HB1	1.94	0.50
1:A:472:THR:HG23	1:A:562:ALA:HB1	1.93	0.50
1:A:712:THR:HG22	1:A:713:ARG:HG2	1.93	0.50
1:K:601:VAL:HG23	1:K:717:THR:HG21	1.93	0.50
1:M:712:THR:HG22	1:M:713:ARG:HG2	1.93	0.50
1:O:460:THR:O	1:P:505:PRO:HD2	2.11	0.50
1:P:472:THR:HG23	1:P:562:ALA:HB1	1.94	0.50
1:R:601:VAL:HG23	1:R:717:THR:HG21	1.93	0.50
1:T:472:THR:HG23	1:T:562:ALA:HB1	1.93	0.50
1:U:436:TYR:CG	1:V:547:MET:HE1	2.45	0.50
1:V:472:THR:HG23	1:V:562:ALA:HB1	1.93	0.50
1:Z:381:GLU:HB2	1:b:687:ILE:HD11	1.91	0.50
1:Z:472:THR:HG23	1:Z:562:ALA:HB1	1.94	0.50
1:i:328:THR:CG2	1:o:310:GLN:CG	2.74	0.50
1:j:460:THR:O	1:k:505:PRO:HD2	2.11	0.50
1:l:712:THR:HG22	1:l:713:ARG:HG2	1.93	0.50
1:r:460:THR:O	1:s:505:PRO:HD2	2.11	0.50
1:t:328:THR:CG2	1:v:310:GLN:CG	2.74	0.50
1:w:472:THR:HG23	1:w:562:ALA:HB1	1.94	0.50
1:5:472:THR:HG23	1:5:562:ALA:HB1	1.93	0.50
1:E:472:THR:HG23	1:E:562:ALA:HB1	1.94	0.50
1:P:712:THR:HG22	1:P:713:ARG:HG2	1.93	0.50
1:Q:712:THR:HG22	1:Q:713:ARG:HG2	1.93	0.50
1:Z:601:VAL:HG23	1:Z:717:THR:HG21	1.93	0.50
1:a:460:THR:O	1:b:505:PRO:HD2	2.11	0.50
1:a:472:THR:HG23	1:a:562:ALA:HB1	1.93	0.50
1:b:472:THR:HG23	1:b:562:ALA:HB1	1.93	0.50
1:b:712:THR:HG22	1:b:713:ARG:HG2	1.93	0.50
1:c:472:THR:HG23	1:c:562:ALA:HB1	1.94	0.50
1:e:712:THR:HG22	1:e:713:ARG:HG2	1.93	0.50
1:g:472:THR:HG23	1:g:562:ALA:HB1	1.93	0.50
1:i:601:VAL:HG23	1:i:717:THR:HG21	1.93	0.50
1:m:460:THR:O	1:n:505:PRO:HD2	2.11	0.50
1:p:472:THR:HG23	1:p:562:ALA:HB1	1.94	0.50
1:q:712:THR:HG22	1:q:713:ARG:HG2	1.93	0.50
1:u:460:THR:O	1:v:505:PRO:HD2	2.11	0.50
1:2:472:THR:HG23	1:2:562:ALA:HB1	1.93	0.50
1:3:712:THR:HG22	1:3:713:ARG:HG2	1.93	0.50
1:4:472:THR:HG23	1:4:562:ALA:HB1	1.94	0.50
1:7:601:VAL:HG23	1:7:717:THR:HG21	1.93	0.50
1:B:505:PRO:HD2	1:D:460:THR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:460:THR:O	1:V:505:PRO:HD2	2.11	0.50
1:c:460:THR:O	1:d:505:PRO:HD2	2.11	0.50
1:n:472:THR:HG23	1:n:562:ALA:HB1	1.93	0.50
1:o:505:PRO:HD2	1:q:460:THR:O	2.11	0.50
1:t:601:VAL:HG23	1:t:717:THR:HG21	1.93	0.50
1:y:460:THR:O	1:z:505:PRO:HD2	2.11	0.50
1:1:505:PRO:HD2	1:3:460:THR:O	2.11	0.50
1:6:712:THR:HG22	1:6:713:ARG:HG2	1.93	0.50
1:8:472:THR:HG23	1:8:562:ALA:HB1	1.93	0.50
1:A:505:PRO:HD2	1:8:460:THR:O	2.11	0.50
1:E:476:ASN:HB2	1:E:480:GLY:HA2	1.94	0.50
1:F:472:THR:HG23	1:F:562:ALA:HB1	1.94	0.50
1:L:712:THR:HG22	1:L:713:ARG:HG2	1.93	0.50
1:M:476:ASN:HB2	1:M:480:GLY:HA2	1.94	0.50
1:N:460:THR:O	1:O:505:PRO:HD2	2.11	0.50
1:N:472:THR:HG23	1:N:562:ALA:HB1	1.94	0.50
1:O:712:THR:HG22	1:O:713:ARG:HG2	1.93	0.50
1:P:476:ASN:HB2	1:P:480:GLY:HA2	1.94	0.50
1:Q:476:ASN:HB2	1:Q:480:GLY:HA2	1.94	0.50
1:W:472:THR:HG23	1:W:562:ALA:HB1	1.93	0.50
1:W:505:PRO:HD2	1:Y:460:THR:O	2.11	0.50
1:f:505:PRO:HD2	1:h:460:THR:O	2.11	0.50
1:l:460:THR:O	1:m:505:PRO:HD2	2.11	0.50
1:n:601:VAL:HG23	1:n:717:THR:HG21	1.93	0.50
1:p:575:SER:O	1:q:483:ARG:HB2	2.12	0.50
1:u:483:ARG:HB2	1:w:575:SER:O	2.12	0.50
1:u:712:THR:HG22	1:u:713:ARG:HG2	1.93	0.50
1:4:460:THR:O	1:5:505:PRO:HD2	2.11	0.50
1:C:460:THR:O	1:D:505:PRO:HD2	2.11	0.50
1:C:472:THR:HG23	1:C:562:ALA:HB1	1.93	0.50
1:C:601:VAL:HG23	1:C:717:THR:HG21	1.93	0.50
1:F:460:THR:O	1:G:505:PRO:HD2	2.11	0.50
1:G:712:THR:HG22	1:G:713:ARG:HG2	1.93	0.50
1:I:472:THR:HG23	1:I:562:ALA:HB1	1.93	0.50
1:I:476:ASN:HB2	1:I:480:GLY:HA2	1.94	0.50
1:S:712:THR:HG22	1:S:713:ARG:HG2	1.93	0.50
1:T:476:ASN:HB2	1:T:480:GLY:HA2	1.94	0.50
1:W:476:ASN:HB2	1:W:480:GLY:HA2	1.94	0.50
1:Y:712:THR:HG22	1:Y:713:ARG:HG2	1.93	0.50
1:c:575:SER:O	1:d:483:ARG:HB2	2.12	0.50
1:g:476:ASN:HB2	1:g:480:GLY:HA2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:483:ARG:HB2	1:q:575:SER:O	2.12	0.50
1:u:575:SER:O	1:v:483:ARG:HB2	2.12	0.50
1:2:601:VAL:HG23	1:2:717:THR:HG21	1.93	0.50
1:4:575:SER:O	1:5:483:ARG:HB2	2.12	0.50
1:5:575:SER:O	1:6:483:ARG:HB2	2.12	0.50
1:5:712:THR:HG22	1:5:713:ARG:HG2	1.93	0.50
1:H:460:THR:O	1:I:505:PRO:HD2	2.11	0.50
1:H:712:THR:HG22	1:H:713:ARG:HG2	1.93	0.50
1:N:712:THR:HG22	1:N:713:ARG:HG2	1.93	0.50
1:c:476:ASN:HB2	1:c:480:GLY:HA2	1.94	0.50
1:d:575:SER:O	1:e:483:ARG:HB2	2.12	0.50
1:d:712:THR:HG22	1:d:713:ARG:HG2	1.93	0.50
1:l:483:ARG:HB2	1:n:575:SER:O	2.12	0.50
1:n:712:THR:HG22	1:n:713:ARG:HG2	1.93	0.50
1:x:472:THR:HG23	1:x:562:ALA:HB1	1.93	0.50
1:x:601:VAL:HG23	1:x:717:THR:HG21	1.93	0.50
1:2:575:SER:O	1:3:483:ARG:HB2	2.12	0.50
1:7:575:SER:O	1:8:483:ARG:HB2	2.12	0.50
1:B:601:VAL:HG23	1:B:717:THR:HG21	1.93	0.49
1:C:476:ASN:HB2	1:C:480:GLY:HA2	1.94	0.49
1:F:712:THR:HG22	1:F:713:ARG:HG2	1.93	0.49
1:K:472:THR:HG23	1:K:562:ALA:HB1	1.93	0.49
1:K:476:ASN:HB2	1:K:480:GLY:HA2	1.94	0.49
1:L:476:ASN:HB2	1:L:480:GLY:HA2	1.94	0.49
1:N:575:SER:O	1:O:483:ARG:HB2	2.12	0.49
1:S:476:ASN:HB2	1:S:480:GLY:HA2	1.94	0.49
1:T:483:ARG:HB2	1:V:575:SER:O	2.12	0.49
1:T:505:PRO:HD2	1:V:460:THR:O	2.11	0.49
1:Z:575:SER:O	1:a:483:ARG:HB2	2.12	0.49
1:f:460:THR:O	1:g:505:PRO:HD2	2.11	0.49
1:f:575:SER:O	1:g:483:ARG:HB2	2.12	0.49
1:r:483:ARG:HB2	1:t:575:SER:O	2.12	0.49
1:s:601:VAL:HG23	1:s:717:THR:HG21	1.93	0.49
1:x:460:THR:O	1:y:505:PRO:HD2	2.11	0.49
1:2:712:THR:HG22	1:2:713:ARG:HG2	1.93	0.49
1:6:472:THR:HG23	1:6:562:ALA:HB1	1.93	0.49
1:F:575:SER:O	1:G:483:ARG:HB2	2.12	0.49
1:J:472:THR:HG23	1:J:562:ALA:HB1	1.93	0.49
1:M:601:VAL:HG23	1:M:717:THR:HG21	1.93	0.49
1:P:310:GLN:CG	1:4:328:THR:CG2	2.74	0.49
1:Q:601:VAL:HG23	1:Q:717:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:472:THR:HG23	1:R:562:ALA:HB1	1.93	0.49
1:Z:582:THR:CG2	1:a:491:THR:O	2.61	0.49
1:e:472:THR:HG23	1:e:562:ALA:HB1	1.93	0.49
1:i:575:SER:O	1:j:483:ARG:HB2	2.12	0.49
1:j:476:ASN:HB2	1:j:480:GLY:HA2	1.94	0.49
1:m:472:THR:HG23	1:m:562:ALA:HB1	1.93	0.49
1:s:472:THR:HG23	1:s:562:ALA:HB1	1.94	0.49
1:x:476:ASN:HB2	1:x:480:GLY:HA2	1.94	0.49
1:1:601:VAL:HG23	1:1:717:THR:HG21	1.93	0.49
1:4:476:ASN:HB2	1:4:480:GLY:HA2	1.94	0.49
1:4:483:ARG:HB2	1:6:575:SER:O	2.12	0.49
1:7:582:THR:CG2	1:8:491:THR:O	2.61	0.49
1:A:575:SER:O	1:7:483:ARG:HB2	2.12	0.49
1:B:582:THR:CG2	1:C:491:THR:O	2.61	0.49
1:D:601:VAL:HG23	1:D:717:THR:HG21	1.93	0.49
1:F:295:TRP:CZ2	1:F:722:ARG:HD3	2.48	0.49
1:F:601:VAL:HG23	1:F:717:THR:HG21	1.93	0.49
1:H:476:ASN:HB2	1:H:480:GLY:HA2	1.94	0.49
1:L:472:THR:HG23	1:L:562:ALA:HB1	1.94	0.49
1:N:295:TRP:CZ2	1:N:722:ARG:HD3	2.48	0.49
1:R:476:ASN:HB2	1:R:480:GLY:HA2	1.94	0.49
1:R:712:THR:HG22	1:R:713:ARG:HG2	1.93	0.49
1:T:295:TRP:CZ2	1:T:722:ARG:HD3	2.48	0.49
1:T:491:THR:O	1:V:582:THR:CG2	2.61	0.49
1:X:472:THR:HG23	1:X:562:ALA:HB1	1.93	0.49
1:Z:483:ARG:HB2	1:b:575:SER:O	2.12	0.49
1:c:483:ARG:HB2	1:e:575:SER:O	2.12	0.49
1:f:582:THR:CG2	1:g:491:THR:O	2.61	0.49
1:f:601:VAL:HG23	1:f:717:THR:HG21	1.93	0.49
1:k:472:THR:HG23	1:k:562:ALA:HB1	1.94	0.49
1:k:601:VAL:HG23	1:k:717:THR:HG21	1.93	0.49
1:n:476:ASN:HB2	1:n:480:GLY:HA2	1.94	0.49
1:r:476:ASN:HB2	1:r:480:GLY:HA2	1.94	0.49
1:x:491:THR:O	1:z:582:THR:CG2	2.61	0.49
1:z:601:VAL:HG23	1:z:717:THR:HG21	1.93	0.49
1:2:476:ASN:HB2	1:2:480:GLY:HA2	1.94	0.49
1:4:601:VAL:HG23	1:4:717:THR:HG21	1.93	0.49
1:A:483:ARG:HB2	1:8:575:SER:O	2.12	0.49
1:E:491:THR:O	1:G:582:THR:CG2	2.61	0.49
1:I:582:THR:CG2	1:J:491:THR:O	2.61	0.49
1:M:472:THR:HG23	1:M:562:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:601:VAL:HG23	1:N:717:THR:HG21	1.93	0.49
1:O:582:THR:CG2	1:P:491:THR:O	2.61	0.49
1:U:472:THR:HG23	1:U:562:ALA:HB1	1.94	0.49
1:U:575:SER:O	1:V:483:ARG:HB2	2.12	0.49
1:W:601:VAL:HG23	1:W:717:THR:HG21	1.93	0.49
1:Y:476:ASN:HB2	1:Y:480:GLY:HA2	1.94	0.49
1:c:601:VAL:HG23	1:c:717:THR:HG21	1.93	0.49
1:d:295:TRP:CZ2	1:d:722:ARG:HD3	2.48	0.49
1:g:295:TRP:CZ2	1:g:722:ARG:HD3	2.48	0.49
1:i:483:ARG:HB2	1:k:575:SER:O	2.12	0.49
1:j:575:SER:O	1:k:483:ARG:HB2	2.12	0.49
1:m:601:VAL:HG23	1:m:717:THR:HG21	1.93	0.49
1:r:575:SER:O	1:s:483:ARG:HB2	2.12	0.49
1:y:601:VAL:HG23	1:y:717:THR:HG21	1.93	0.49
1:1:472:THR:HG23	1:1:562:ALA:HB1	1.93	0.49
1:5:295:TRP:CZ2	1:5:722:ARG:HD3	2.48	0.49
1:H:601:VAL:HG23	1:H:717:THR:HG21	1.93	0.49
1:I:295:TRP:CZ2	1:I:722:ARG:HD3	2.48	0.49
1:I:601:VAL:HG23	1:I:717:THR:HG21	1.93	0.49
1:K:295:TRP:CZ2	1:K:722:ARG:HD3	2.48	0.49
1:K:712:THR:HG22	1:K:713:ARG:HG2	1.93	0.49
1:L:575:SER:O	1:M:483:ARG:HB2	2.12	0.49
1:L:582:THR:CG2	1:M:491:THR:O	2.61	0.49
1:L:601:VAL:HG23	1:L:717:THR:HG21	1.93	0.49
1:Q:472:THR:HG23	1:Q:562:ALA:HB1	1.93	0.49
1:Q:491:THR:O	1:S:582:THR:CG2	2.61	0.49
1:S:601:VAL:HG23	1:S:717:THR:HG21	1.93	0.49
1:U:582:THR:CG2	1:V:491:THR:O	2.61	0.49
1:V:601:VAL:HG23	1:V:717:THR:HG21	1.93	0.49
1:W:295:TRP:CZ2	1:W:722:ARG:HD3	2.48	0.49
1:W:582:THR:CG2	1:X:491:THR:O	2.61	0.49
1:Y:601:VAL:HG23	1:Y:717:THR:HG21	1.93	0.49
1:a:575:SER:O	1:b:483:ARG:HB2	2.12	0.49
1:c:295:TRP:CZ2	1:c:722:ARG:HD3	2.48	0.49
1:c:582:THR:CG2	1:d:491:THR:O	2.61	0.49
1:f:476:ASN:HB2	1:f:480:GLY:HA2	1.94	0.49
1:f:483:ARG:HB2	1:h:575:SER:O	2.12	0.49
1:q:476:ASN:HB2	1:q:480:GLY:HA2	1.94	0.49
1:s:575:SER:O	1:t:483:ARG:HB2	2.12	0.49
1:v:582:THR:CG2	1:w:491:THR:O	2.61	0.49
1:4:295:TRP:CZ2	1:4:722:ARG:HD3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:582:THR:CG2	1:5:491:THR:O	2.61	0.49
1:E:310:GLN:CG	1:c:328:THR:CG2	2.74	0.49
1:H:491:THR:O	1:J:582:THR:CG2	2.61	0.49
1:K:491:THR:O	1:M:582:THR:CG2	2.61	0.49
1:L:579:ALA:HA	1:M:483:ARG:HD3	1.95	0.49
1:N:483:ARG:HD3	1:P:579:ALA:HA	1.95	0.49
1:N:582:THR:CG2	1:O:491:THR:O	2.61	0.49
1:Q:483:ARG:HB2	1:S:575:SER:O	2.12	0.49
1:Q:483:ARG:HD3	1:S:579:ALA:HA	1.95	0.49
1:R:295:TRP:CZ2	1:R:722:ARG:HD3	2.48	0.49
1:S:472:THR:HG23	1:S:562:ALA:HB1	1.94	0.49
1:V:476:ASN:HB2	1:V:480:GLY:HA2	1.94	0.49
1:X:575:SER:O	1:Y:483:ARG:HB2	2.12	0.49
1:X:582:THR:CG2	1:Y:491:THR:O	2.61	0.49
1:Z:295:TRP:CZ2	1:Z:722:ARG:HD3	2.48	0.49
1:a:476:ASN:HB2	1:a:480:GLY:HA2	1.94	0.49
1:b:476:ASN:HB2	1:b:480:GLY:HA2	1.94	0.49
1:c:491:THR:O	1:e:582:THR:CG2	2.61	0.49
1:f:491:THR:O	1:h:582:THR:CG2	2.61	0.49
1:h:472:THR:HG23	1:h:562:ALA:HB1	1.94	0.49
1:i:295:TRP:CZ2	1:i:722:ARG:HD3	2.48	0.49
1:j:472:THR:HG23	1:j:562:ALA:HB1	1.94	0.49
1:m:582:THR:CG2	1:n:491:THR:O	2.61	0.49
1:o:582:THR:CG2	1:p:491:THR:O	2.61	0.49
1:t:295:TRP:CZ2	1:t:722:ARG:HD3	2.48	0.49
1:v:601:VAL:HG23	1:v:717:THR:HG21	1.93	0.49
1:1:582:THR:CG2	1:2:491:THR:O	2.61	0.49
1:4:491:THR:O	1:6:582:THR:CG2	2.61	0.49
1:7:295:TRP:CZ2	1:7:722:ARG:HD3	2.48	0.49
1:8:295:TRP:CZ2	1:8:722:ARG:HD3	2.48	0.49
1:8:476:ASN:HB2	1:8:480:GLY:HA2	1.94	0.49
1:A:476:ASN:HB2	1:A:480:GLY:HA2	1.94	0.49
1:B:295:TRP:CZ2	1:B:722:ARG:HD3	2.48	0.49
1:E:579:ALA:HA	1:F:483:ARG:HD3	1.95	0.49
1:F:582:THR:CG2	1:G:491:THR:O	2.61	0.49
1:H:483:ARG:HB2	1:J:575:SER:O	2.12	0.49
1:O:472:THR:HG23	1:O:562:ALA:HB1	1.94	0.49
1:Q:582:THR:CG2	1:R:491:THR:O	2.61	0.49
1:T:575:SER:O	1:U:483:ARG:HB2	2.12	0.49
1:T:601:VAL:HG23	1:T:717:THR:HG21	1.93	0.49
1:V:295:TRP:CZ2	1:V:722:ARG:HD3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:295:TRP:CZ2	1:a:722:ARG:HD3	2.48	0.49
1:f:295:TRP:CZ2	1:f:722:ARG:HD3	2.48	0.49
1:f:579:ALA:HA	1:g:483:ARG:HD3	1.95	0.49
1:o:476:ASN:HB2	1:o:480:GLY:HA2	1.94	0.49
1:o:601:VAL:HG23	1:o:717:THR:HG21	1.93	0.49
1:r:472:THR:HG23	1:r:562:ALA:HB1	1.94	0.49
1:u:476:ASN:HB2	1:u:480:GLY:HA2	1.94	0.49
1:v:476:ASN:HB2	1:v:480:GLY:HA2	1.94	0.49
1:5:582:THR:CG2	1:6:491:THR:O	2.61	0.49
1:A:582:THR:CG2	1:7:491:THR:O	2.61	0.49
1:C:582:THR:CG2	1:D:491:THR:O	2.61	0.49
1:G:472:THR:HG23	1:G:562:ALA:HB1	1.94	0.49
1:H:582:THR:CG2	1:I:491:THR:O	2.61	0.49
1:O:575:SER:O	1:P:483:ARG:HB2	2.12	0.49
1:Q:579:ALA:HA	1:R:483:ARG:HD3	1.95	0.49
1:T:483:ARG:HD3	1:V:579:ALA:HA	1.95	0.49
1:U:295:TRP:CZ2	1:U:722:ARG:HD3	2.48	0.49
1:U:601:VAL:HG23	1:U:717:THR:HG21	1.93	0.49
1:Z:491:THR:O	1:b:582:THR:CG2	2.61	0.49
1:a:310:GLN:CG	1:e:328:THR:CG2	2.74	0.49
1:d:582:THR:CG2	1:e:491:THR:O	2.61	0.49
1:g:575:SER:O	1:h:483:ARG:HB2	2.12	0.49
1:h:601:VAL:HG23	1:h:717:THR:HG21	1.93	0.49
1:i:582:THR:CG2	1:j:491:THR:O	2.61	0.49
1:j:582:THR:CG2	1:k:491:THR:O	2.61	0.49
1:m:476:ASN:HB2	1:m:480:GLY:HA2	1.94	0.49
1:n:472:THR:OG1	1:n:522:ALA:HB1	2.13	0.49
1:r:582:THR:CG2	1:s:491:THR:O	2.61	0.49
1:s:582:THR:CG2	1:t:491:THR:O	2.61	0.49
1:w:295:TRP:CZ2	1:w:722:ARG:HD3	2.48	0.49
1:y:295:TRP:CZ2	1:y:722:ARG:HD3	2.48	0.49
1:y:582:THR:CG2	1:z:491:THR:O	2.61	0.49
1:z:295:TRP:CZ2	1:z:722:ARG:HD3	2.48	0.49
1:1:491:THR:O	1:3:582:THR:CG2	2.61	0.49
1:2:472:THR:OG1	1:2:522:ALA:HB1	2.13	0.49
1:3:295:TRP:CZ2	1:3:722:ARG:HD3	2.48	0.49
1:B:491:THR:O	1:D:582:THR:CG2	2.61	0.49
1:D:295:TRP:CZ2	1:D:722:ARG:HD3	2.48	0.49
1:E:483:ARG:HB2	1:G:575:SER:O	2.12	0.49
1:E:575:SER:O	1:F:483:ARG:HB2	2.12	0.49
1:G:472:THR:OG1	1:G:522:ALA:HB1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:579:ALA:HA	1:J:483:ARG:HD3	1.95	0.49
1:K:483:ARG:HD3	1:M:579:ALA:HA	1.95	0.49
1:K:575:SER:O	1:L:483:ARG:HB2	2.12	0.49
1:L:472:THR:OG1	1:L:522:ALA:HB1	2.13	0.49
1:M:472:THR:OG1	1:M:522:ALA:HB1	2.13	0.49
1:N:483:ARG:HB2	1:P:575:SER:O	2.12	0.49
1:P:295:TRP:CZ2	1:P:722:ARG:HD3	2.48	0.49
1:Q:295:TRP:CZ2	1:Q:722:ARG:HD3	2.48	0.49
1:Q:472:THR:OG1	1:Q:522:ALA:HB1	2.13	0.49
1:R:582:THR:CG2	1:S:491:THR:O	2.61	0.49
1:S:472:THR:OG1	1:S:522:ALA:HB1	2.13	0.49
1:T:579:ALA:HA	1:U:483:ARG:HD3	1.95	0.49
1:T:582:THR:CG2	1:U:491:THR:O	2.61	0.49
1:W:491:THR:O	1:Y:582:THR:CG2	2.61	0.49
1:W:575:SER:O	1:X:483:ARG:HB2	2.12	0.49
1:W:579:ALA:HA	1:X:483:ARG:HD3	1.95	0.49
1:e:295:TRP:CZ2	1:e:722:ARG:HD3	2.48	0.49
1:g:582:THR:CG2	1:h:491:THR:O	2.61	0.49
1:g:601:VAL:HG23	1:g:717:THR:HG21	1.93	0.49
1:h:295:TRP:CZ2	1:h:722:ARG:HD3	2.48	0.49
1:h:712:THR:HG22	1:h:713:ARG:HG2	1.93	0.49
1:i:491:THR:O	1:k:582:THR:CG2	2.61	0.49
1:i:579:ALA:HA	1:j:483:ARG:HD3	1.95	0.49
1:l:295:TRP:CZ2	1:l:722:ARG:HD3	2.48	0.49
1:l:582:THR:CG2	1:m:491:THR:O	2.61	0.49
1:o:575:SER:O	1:p:483:ARG:HB2	2.12	0.49
1:p:295:TRP:CZ2	1:p:722:ARG:HD3	2.48	0.49
1:p:579:ALA:HA	1:q:483:ARG:HD3	1.95	0.49
1:r:483:ARG:HD3	1:t:579:ALA:HA	1.95	0.49
1:r:491:THR:O	1:t:582:THR:CG2	2.61	0.49
1:u:483:ARG:HD3	1:w:579:ALA:HA	1.95	0.49
1:x:483:ARG:HD3	1:z:579:ALA:HA	1.95	0.49
1:x:582:THR:CG2	1:y:491:THR:O	2.61	0.49
1:1:476:ASN:HB2	1:1:480:GLY:HA2	1.94	0.49
1:6:295:TRP:CZ2	1:6:722:ARG:HD3	2.48	0.49
1:6:328:THR:CG2	1:8:310:GLN:CG	2.74	0.49
1:A:491:THR:O	1:8:582:THR:CG2	2.61	0.49
1:B:579:ALA:HA	1:C:483:ARG:HD3	1.95	0.49
1:E:295:TRP:CZ2	1:E:722:ARG:HD3	2.48	0.49
1:F:472:THR:OG1	1:F:522:ALA:HB1	2.13	0.49
1:G:476:ASN:HB2	1:G:480:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:295:TRP:CZ2	1:H:722:ARG:HD3	2.48	0.49
1:K:483:ARG:HB2	1:M:575:SER:O	2.12	0.49
1:K:582:THR:CG2	1:L:491:THR:O	2.61	0.49
1:M:295:TRP:CZ2	1:M:722:ARG:HD3	2.48	0.49
1:N:472:THR:OG1	1:N:522:ALA:HB1	2.13	0.49
1:O:472:THR:OG1	1:O:522:ALA:HB1	2.13	0.49
1:U:712:THR:HG22	1:U:713:ARG:HG2	1.93	0.49
1:W:472:THR:OG1	1:W:522:ALA:HB1	2.13	0.49
1:W:483:ARG:HD3	1:Y:579:ALA:HA	1.95	0.49
1:a:472:THR:OG1	1:a:522:ALA:HB1	2.13	0.49
1:a:582:THR:CG2	1:b:491:THR:O	2.61	0.49
1:c:472:THR:OG1	1:c:522:ALA:HB1	2.13	0.49
1:e:472:THR:OG1	1:e:522:ALA:HB1	2.13	0.49
1:g:579:ALA:HA	1:h:483:ARG:HD3	1.95	0.49
1:i:472:THR:OG1	1:i:522:ALA:HB1	2.13	0.49
1:l:472:THR:HG23	1:l:562:ALA:HB1	1.93	0.49
1:l:476:ASN:HB2	1:l:480:GLY:HA2	1.94	0.49
1:v:295:TRP:CZ2	1:v:722:ARG:HD3	2.48	0.49
1:x:575:SER:O	1:y:483:ARG:HB2	2.12	0.49
1:3:472:THR:HG23	1:3:562:ALA:HB1	1.93	0.49
1:3:476:ASN:HB2	1:3:480:GLY:HA2	1.94	0.49
1:4:472:THR:OG1	1:4:522:ALA:HB1	2.13	0.49
1:5:476:ASN:HB2	1:5:480:GLY:HA2	1.94	0.49
1:6:472:THR:OG1	1:6:522:ALA:HB1	2.13	0.49
1:8:472:THR:OG1	1:8:522:ALA:HB1	2.13	0.49
1:A:295:TRP:CZ2	1:A:722:ARG:HD3	2.48	0.48
1:B:483:ARG:HB2	1:D:575:SER:O	2.12	0.48
1:C:575:SER:O	1:D:483:ARG:HB2	2.12	0.48
1:E:582:THR:CG2	1:F:491:THR:O	2.61	0.48
1:G:295:TRP:CZ2	1:G:722:ARG:HD3	2.48	0.48
1:H:483:ARG:HD3	1:J:579:ALA:HA	1.95	0.48
1:H:575:SER:O	1:I:483:ARG:HB2	2.12	0.48
1:H:579:ALA:HA	1:I:483:ARG:HD3	1.95	0.48
1:I:472:THR:OG1	1:I:522:ALA:HB1	2.13	0.48
1:I:575:SER:O	1:J:483:ARG:HB2	2.12	0.48
1:K:288:GLN:HG3	1:K:689:TYR:HD2	1.78	0.48
1:N:491:THR:O	1:P:582:THR:CG2	2.61	0.48
1:O:476:ASN:HB2	1:O:480:GLY:HA2	1.94	0.48
1:R:288:GLN:HG3	1:R:689:TYR:HD2	1.78	0.48
1:R:575:SER:O	1:S:483:ARG:HB2	2.12	0.48
1:X:579:ALA:HA	1:Y:483:ARG:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:295:TRP:CZ2	1:Y:722:ARG:HD3	2.48	0.48
1:Z:472:THR:OG1	1:Z:522:ALA:HB1	2.13	0.48
1:c:288:GLN:HG3	1:c:689:TYR:HD2	1.79	0.48
1:d:472:THR:OG1	1:d:522:ALA:HB1	2.13	0.48
1:d:579:ALA:HA	1:e:483:ARG:HD3	1.95	0.48
1:o:295:TRP:CZ2	1:o:722:ARG:HD3	2.48	0.48
1:o:491:THR:O	1:q:582:THR:CG2	2.61	0.48
1:p:472:THR:OG1	1:p:522:ALA:HB1	2.13	0.48
1:s:472:THR:OG1	1:s:522:ALA:HB1	2.13	0.48
1:t:472:THR:OG1	1:t:522:ALA:HB1	2.13	0.48
1:u:582:THR:CG2	1:v:491:THR:O	2.61	0.48
1:v:575:SER:O	1:w:483:ARG:HB2	2.12	0.48
1:x:579:ALA:HA	1:y:483:ARG:HD3	1.95	0.48
1:y:575:SER:O	1:z:483:ARG:HB2	2.12	0.48
1:5:472:THR:OG1	1:5:522:ALA:HB1	2.13	0.48
1:5:579:ALA:HA	1:6:483:ARG:HD3	1.95	0.48
1:7:472:THR:OG1	1:7:522:ALA:HB1	2.13	0.48
1:C:579:ALA:HA	1:D:483:ARG:HD3	1.95	0.48
1:G:601:VAL:HG23	1:G:717:THR:HG21	1.93	0.48
1:J:476:ASN:HB2	1:J:480:GLY:HA2	1.94	0.48
1:O:295:TRP:CZ2	1:O:722:ARG:HD3	2.48	0.48
1:Q:575:SER:O	1:R:483:ARG:HB2	2.12	0.48
1:R:472:THR:OG1	1:R:522:ALA:HB1	2.13	0.48
1:S:295:TRP:CZ2	1:S:722:ARG:HD3	2.48	0.48
1:T:209:ASP:OD2	1:T:209:ASP:N	2.46	0.48
1:T:472:THR:OG1	1:T:522:ALA:HB1	2.13	0.48
1:W:483:ARG:HB2	1:Y:575:SER:O	2.12	0.48
1:b:295:TRP:CZ2	1:b:722:ARG:HD3	2.48	0.48
1:d:476:ASN:HB2	1:d:480:GLY:HA2	1.94	0.48
1:g:209:ASP:OD2	1:g:209:ASP:N	2.46	0.48
1:j:209:ASP:N	1:j:209:ASP:OD2	2.46	0.48
1:j:288:GLN:HG3	1:j:689:TYR:HD2	1.78	0.48
1:k:472:THR:OG1	1:k:522:ALA:HB1	2.13	0.48
1:l:575:SER:O	1:m:483:ARG:HB2	2.12	0.48
1:l:579:ALA:HA	1:m:483:ARG:HD3	1.95	0.48
1:p:582:THR:CG2	1:q:491:THR:O	2.61	0.48
1:q:209:ASP:OD2	1:q:209:ASP:N	2.46	0.48
1:r:209:ASP:N	1:r:209:ASP:OD2	2.46	0.48
1:r:288:GLN:HG3	1:r:689:TYR:HD2	1.78	0.48
1:s:288:GLN:HG3	1:s:689:TYR:HD2	1.78	0.48
1:s:476:ASN:HB2	1:s:480:GLY:HA2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:472:THR:OG1	1:w:522:ALA:HB1	2.13	0.48
1:1:483:ARG:HD3	1:3:579:ALA:HA	1.95	0.48
1:3:209:ASP:OD2	1:3:209:ASP:N	2.46	0.48
1:4:288:GLN:HG3	1:4:689:TYR:HD2	1.79	0.48
1:A:209:ASP:OD2	1:A:209:ASP:N	2.46	0.48
1:C:472:THR:OG1	1:C:522:ALA:HB1	2.13	0.48
1:I:288:GLN:HG3	1:I:689:TYR:HD2	1.79	0.48
1:J:295:TRP:CZ2	1:J:722:ARG:HD3	2.48	0.48
1:J:472:THR:OG1	1:J:522:ALA:HB1	2.13	0.48
1:K:472:THR:OG1	1:K:522:ALA:HB1	2.13	0.48
1:L:295:TRP:CZ2	1:L:722:ARG:HD3	2.48	0.48
1:M:288:GLN:HG3	1:M:689:TYR:HD2	1.79	0.48
1:Q:288:GLN:HG3	1:Q:689:TYR:HD2	1.78	0.48
1:U:476:ASN:HB2	1:U:480:GLY:HA2	1.94	0.48
1:U:579:ALA:HA	1:V:483:ARG:HD3	1.95	0.48
1:W:288:GLN:HG3	1:W:689:TYR:HD2	1.79	0.48
1:X:295:TRP:CZ2	1:X:722:ARG:HD3	2.48	0.48
1:X:472:THR:OG1	1:X:522:ALA:HB1	2.13	0.48
1:X:476:ASN:HB2	1:X:480:GLY:HA2	1.94	0.48
1:Y:288:GLN:HG3	1:Y:689:TYR:HD2	1.79	0.48
1:e:209:ASP:OD2	1:e:209:ASP:N	2.46	0.48
1:g:472:THR:OG1	1:g:522:ALA:HB1	2.13	0.48
1:h:476:ASN:HB2	1:h:480:GLY:HA2	1.94	0.48
1:k:209:ASP:OD2	1:k:209:ASP:N	2.46	0.48
1:k:288:GLN:HG3	1:k:689:TYR:HD2	1.78	0.48
1:k:295:TRP:CZ2	1:k:722:ARG:HD3	2.48	0.48
1:l:209:ASP:OD2	1:l:209:ASP:N	2.46	0.48
1:l:472:THR:OG1	1:l:522:ALA:HB1	2.13	0.48
1:m:472:THR:OG1	1:m:522:ALA:HB1	2.13	0.48
1:q:472:THR:OG1	1:q:522:ALA:HB1	2.13	0.48
1:r:295:TRP:CZ2	1:r:722:ARG:HD3	2.48	0.48
1:s:209:ASP:OD2	1:s:209:ASP:N	2.46	0.48
1:s:295:TRP:CZ2	1:s:722:ARG:HD3	2.48	0.48
1:u:209:ASP:OD2	1:u:209:ASP:N	2.46	0.48
1:u:472:THR:OG1	1:u:522:ALA:HB1	2.13	0.48
1:x:472:THR:OG1	1:x:522:ALA:HB1	2.13	0.48
1:1:472:THR:OG1	1:1:522:ALA:HB1	2.13	0.48
1:1:483:ARG:HB2	1:3:575:SER:O	2.12	0.48
1:3:472:THR:OG1	1:3:522:ALA:HB1	2.13	0.48
1:4:483:ARG:HD3	1:6:579:ALA:HA	1.95	0.48
1:6:209:ASP:OD2	1:6:209:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:ARG:HD3	1:8:579:ALA:HA	1.95	0.48
1:B:575:SER:O	1:C:483:ARG:HB2	2.12	0.48
1:E:385:PHE:H	1:G:684:ASN:ND2	2.12	0.48
1:E:483:ARG:HD3	1:G:579:ALA:HA	1.95	0.48
1:F:288:GLN:HG3	1:F:689:TYR:HD2	1.78	0.48
1:H:288:GLN:HG3	1:H:689:TYR:HD2	1.79	0.48
1:J:288:GLN:HG3	1:J:689:TYR:HD2	1.79	0.48
1:N:288:GLN:HG3	1:N:689:TYR:HD2	1.78	0.48
1:O:209:ASP:N	1:O:209:ASP:OD2	2.46	0.48
1:O:601:VAL:HG23	1:O:717:THR:HG21	1.93	0.48
1:O:684:ASN:ND2	1:P:385:PHE:H	2.12	0.48
1:T:684:ASN:ND2	1:U:385:PHE:H	2.12	0.48
1:X:288:GLN:HG3	1:X:689:TYR:HD2	1.79	0.48
1:b:209:ASP:N	1:b:209:ASP:OD2	2.46	0.48
1:c:483:ARG:HD3	1:e:579:ALA:HA	1.95	0.48
1:d:209:ASP:OD2	1:d:209:ASP:N	2.46	0.48
1:f:483:ARG:HD3	1:h:579:ALA:HA	1.95	0.48
1:i:476:ASN:HB2	1:i:480:GLY:HA2	1.94	0.48
1:k:476:ASN:HB2	1:k:480:GLY:HA2	1.94	0.48
1:m:295:TRP:CZ2	1:m:722:ARG:HD3	2.48	0.48
1:o:288:GLN:HG3	1:o:689:TYR:HD2	1.78	0.48
1:p:476:ASN:HB2	1:p:480:GLY:HA2	1.94	0.48
1:t:476:ASN:HB2	1:t:480:GLY:HA2	1.94	0.48
1:u:491:THR:O	1:w:582:THR:CG2	2.61	0.48
1:1:575:SER:O	1:2:483:ARG:HB2	2.12	0.48
1:B:385:PHE:H	1:D:684:ASN:ND2	2.12	0.48
1:B:483:ARG:HD3	1:D:579:ALA:HA	1.95	0.48
1:E:288:GLN:HG3	1:E:689:TYR:HD2	1.78	0.48
1:F:476:ASN:HB2	1:F:480:GLY:HA2	1.94	0.48
1:G:209:ASP:N	1:G:209:ASP:OD2	2.46	0.48
1:J:209:ASP:OD2	1:J:209:ASP:N	2.46	0.48
1:N:476:ASN:HB2	1:N:480:GLY:HA2	1.94	0.48
1:O:579:ALA:HA	1:P:483:ARG:HD3	1.95	0.48
1:Z:476:ASN:HB2	1:Z:480:GLY:HA2	1.94	0.48
1:a:579:ALA:HA	1:b:483:ARG:HD3	1.95	0.48
1:g:684:ASN:ND2	1:h:385:PHE:H	2.12	0.48
1:j:295:TRP:CZ2	1:j:722:ARG:HD3	2.48	0.48
1:k:310:GLN:CG	1:p:328:THR:CG2	2.74	0.48
1:l:491:THR:O	1:n:582:THR:CG2	2.61	0.48
1:o:684:ASN:ND2	1:p:385:PHE:H	2.12	0.48
1:v:288:GLN:HG3	1:v:689:TYR:HD2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:684:ASN:ND2	1:w:385:PHE:H	2.12	0.48
1:w:476:ASN:HB2	1:w:480:GLY:HA2	1.94	0.48
1:1:295:TRP:CZ2	1:1:722:ARG:HD3	2.48	0.48
1:2:582:THR:CG2	1:3:491:THR:O	2.61	0.48
1:3:288:GLN:HG3	1:3:689:TYR:HD2	1.79	0.48
1:5:209:ASP:OD2	1:5:209:ASP:N	2.46	0.48
1:5:288:GLN:HG3	1:5:689:TYR:HD2	1.79	0.48
1:A:579:ALA:HA	1:7:483:ARG:HD3	1.95	0.48
1:C:209:ASP:OD2	1:C:209:ASP:N	2.46	0.48
1:C:684:ASN:ND2	1:D:385:PHE:H	2.12	0.48
1:D:472:THR:HG23	1:D:562:ALA:HB1	1.94	0.48
1:D:476:ASN:HB2	1:D:480:GLY:HA2	1.94	0.48
1:P:288:GLN:HG3	1:P:689:TYR:HD2	1.78	0.48
1:U:209:ASP:OD2	1:U:209:ASP:N	2.46	0.48
1:V:209:ASP:OD2	1:V:209:ASP:N	2.46	0.48
1:X:209:ASP:OD2	1:X:209:ASP:N	2.46	0.48
1:Y:209:ASP:OD2	1:Y:209:ASP:N	2.46	0.48
1:d:288:GLN:HG3	1:d:689:TYR:HD2	1.79	0.48
1:h:209:ASP:OD2	1:h:209:ASP:N	2.46	0.48
1:k:677:LYS:HB3	1:k:677:LYS:HE2	1.68	0.48
1:l:288:GLN:HG3	1:l:689:TYR:HD2	1.79	0.48
1:m:575:SER:O	1:n:483:ARG:HB2	2.12	0.48
1:n:295:TRP:CZ2	1:n:722:ARG:HD3	2.48	0.48
1:p:209:ASP:OD2	1:p:209:ASP:N	2.46	0.48
1:s:579:ALA:HA	1:t:483:ARG:HD3	1.95	0.48
1:x:483:ARG:HB2	1:z:575:SER:O	2.12	0.48
1:x:684:ASN:ND2	1:y:385:PHE:H	2.12	0.48
1:y:579:ALA:HA	1:z:483:ARG:HD3	1.95	0.48
1:y:684:ASN:ND2	1:z:385:PHE:H	2.12	0.48
1:z:209:ASP:N	1:z:209:ASP:OD2	2.46	0.48
1:7:476:ASN:HB2	1:7:480:GLY:HA2	1.94	0.48
1:A:385:PHE:H	1:8:684:ASN:ND2	2.12	0.48
1:B:209:ASP:OD2	1:B:209:ASP:N	2.46	0.48
1:D:209:ASP:OD2	1:D:209:ASP:N	2.46	0.48
1:H:209:ASP:OD2	1:H:209:ASP:N	2.46	0.48
1:I:684:ASN:ND2	1:J:385:PHE:H	2.12	0.48
1:K:582:THR:HG23	1:L:491:THR:O	2.14	0.48
1:R:582:THR:HG23	1:S:491:THR:O	2.14	0.48
1:U:684:ASN:ND2	1:V:385:PHE:H	2.12	0.48
1:Z:483:ARG:HD3	1:b:579:ALA:HA	1.95	0.48
1:a:684:ASN:ND2	1:b:385:PHE:H	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:209:ASP:OD2	1:f:209:ASP:N	2.46	0.48
1:i:483:ARG:HD3	1:k:579:ALA:HA	1.95	0.48
1:m:288:GLN:HG3	1:m:689:TYR:HD2	1.79	0.48
1:o:472:THR:HG23	1:o:562:ALA:HB1	1.93	0.48
1:r:579:ALA:HA	1:s:483:ARG:HD3	1.95	0.48
1:s:310:GLN:CG	1:w:328:THR:CG2	2.74	0.48
1:u:295:TRP:CZ2	1:u:722:ARG:HD3	2.48	0.48
1:u:385:PHE:H	1:w:684:ASN:ND2	2.12	0.48
1:v:472:THR:HG23	1:v:562:ALA:HB1	1.93	0.48
1:w:209:ASP:OD2	1:w:209:ASP:N	2.46	0.48
1:x:209:ASP:OD2	1:x:209:ASP:N	2.46	0.48
1:y:472:THR:HG23	1:y:562:ALA:HB1	1.94	0.48
1:y:476:ASN:HB2	1:y:480:GLY:HA2	1.94	0.48
1:2:295:TRP:CZ2	1:2:722:ARG:HD3	2.48	0.48
1:7:288:GLN:HG3	1:7:689:TYR:HD2	1.79	0.48
1:A:472:THR:OG1	1:A:522:ALA:HB1	2.13	0.48
1:B:472:THR:OG1	1:B:522:ALA:HB1	2.13	0.48
1:B:491:THR:O	1:D:582:THR:HG23	2.14	0.48
1:D:288:GLN:HG3	1:D:689:TYR:HD2	1.79	0.48
1:E:209:ASP:OD2	1:E:209:ASP:N	2.46	0.48
1:F:684:ASN:ND2	1:G:385:PHE:H	2.12	0.48
1:H:385:PHE:H	1:J:684:ASN:ND2	2.12	0.48
1:K:385:PHE:H	1:M:684:ASN:ND2	2.12	0.48
1:L:209:ASP:OD2	1:L:209:ASP:N	2.46	0.48
1:Q:684:ASN:ND2	1:R:385:PHE:H	2.12	0.48
1:W:684:ASN:ND2	1:X:385:PHE:H	2.12	0.48
1:X:684:ASN:ND2	1:Y:385:PHE:H	2.12	0.48
1:Z:209:ASP:OD2	1:Z:209:ASP:N	2.46	0.48
1:Z:288:GLN:HG3	1:Z:689:TYR:HD2	1.79	0.48
1:Z:684:ASN:ND2	1:a:385:PHE:H	2.12	0.48
1:f:385:PHE:H	1:h:684:ASN:ND2	2.12	0.48
1:j:579:ALA:HA	1:k:483:ARG:HD3	1.95	0.48
1:m:582:THR:HG23	1:n:491:THR:O	2.14	0.48
1:p:684:ASN:ND2	1:q:385:PHE:H	2.12	0.48
1:q:295:TRP:CZ2	1:q:722:ARG:HD3	2.48	0.48
1:v:209:ASP:OD2	1:v:209:ASP:N	2.46	0.48
1:y:209:ASP:OD2	1:y:209:ASP:N	2.46	0.48
1:1:288:GLN:HG3	1:1:689:TYR:HD2	1.79	0.48
1:1:579:ALA:HA	1:2:483:ARG:HD3	1.95	0.48
1:6:288:GLN:HG3	1:6:689:TYR:HD2	1.78	0.48
1:7:209:ASP:OD2	1:7:209:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:684:ASN:ND2	1:8:385:PHE:H	2.12	0.48
1:A:684:ASN:ND2	1:7:385:PHE:H	2.12	0.48
1:K:491:THR:O	1:M:582:THR:HG23	2.14	0.48
1:K:579:ALA:HA	1:L:483:ARG:HD3	1.95	0.48
1:L:288:GLN:HG3	1:L:689:TYR:HD2	1.79	0.48
1:N:684:ASN:ND2	1:O:385:PHE:H	2.12	0.48
1:P:209:ASP:OD2	1:P:209:ASP:N	2.46	0.48
1:Q:582:THR:HG23	1:R:491:THR:O	2.14	0.48
1:S:209:ASP:OD2	1:S:209:ASP:N	2.46	0.48
1:S:288:GLN:HG3	1:S:689:TYR:HD2	1.79	0.48
1:Z:385:PHE:H	1:b:684:ASN:ND2	2.12	0.48
1:c:209:ASP:OD2	1:c:209:ASP:N	2.46	0.48
1:c:385:PHE:H	1:e:684:ASN:ND2	2.12	0.48
1:e:288:GLN:HG3	1:e:689:TYR:HD2	1.78	0.48
1:e:476:ASN:HB2	1:e:480:GLY:HA2	1.94	0.48
1:f:684:ASN:ND2	1:g:385:PHE:H	2.12	0.48
1:i:684:ASN:ND2	1:j:385:PHE:H	2.12	0.48
1:m:579:ALA:HA	1:n:483:ARG:HD3	1.95	0.48
1:o:209:ASP:OD2	1:o:209:ASP:N	2.46	0.48
1:s:677:LYS:HB3	1:s:677:LYS:HE2	1.68	0.48
1:u:684:ASN:ND2	1:v:385:PHE:H	2.12	0.48
1:v:472:THR:OG1	1:v:522:ALA:HB1	2.13	0.48
1:x:295:TRP:CZ2	1:x:722:ARG:HD3	2.48	0.48
1:y:582:THR:HG23	1:z:491:THR:O	2.14	0.48
1:z:472:THR:OG1	1:z:522:ALA:HB1	2.13	0.48
1:1:582:THR:HG23	1:2:491:THR:O	2.14	0.48
1:4:385:PHE:H	1:6:684:ASN:ND2	2.12	0.48
1:D:328:THR:CG2	1:F:310:GLN:CG	2.74	0.48
1:E:582:THR:HG23	1:F:491:THR:O	2.14	0.48
1:E:684:ASN:ND2	1:F:385:PHE:H	2.12	0.48
1:H:472:THR:OG1	1:H:522:ALA:HB1	2.13	0.48
1:K:209:ASP:OD2	1:K:209:ASP:N	2.46	0.48
1:L:684:ASN:ND2	1:M:385:PHE:H	2.12	0.48
1:N:491:THR:O	1:P:582:THR:HG23	2.14	0.48
1:Q:385:PHE:H	1:S:684:ASN:ND2	2.12	0.48
1:T:385:PHE:H	1:V:684:ASN:ND2	2.12	0.48
1:W:209:ASP:N	1:W:209:ASP:OD2	2.46	0.48
1:b:472:THR:OG1	1:b:522:ALA:HB1	2.13	0.48
1:l:483:ARG:HD3	1:n:579:ALA:HA	1.95	0.48
1:o:472:THR:OG1	1:o:522:ALA:HB1	2.13	0.48
1:r:385:PHE:H	1:t:684:ASN:ND2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:288:GLN:HG3	1:t:689:TYR:HD2	1.78	0.48
1:y:288:GLN:HG3	1:y:689:TYR:HD2	1.79	0.48
1:1:677:LYS:HB3	1:1:677:LYS:HE2	1.68	0.48
1:4:209:ASP:N	1:4:209:ASP:OD2	2.46	0.48
1:B:582:THR:HG23	1:C:491:THR:O	2.14	0.47
1:C:295:TRP:CZ2	1:C:722:ARG:HD3	2.48	0.47
1:E:472:THR:OG1	1:E:522:ALA:HB1	2.13	0.47
1:I:209:ASP:OD2	1:I:209:ASP:N	2.46	0.47
1:L:582:THR:HG23	1:M:491:THR:O	2.14	0.47
1:N:385:PHE:H	1:P:684:ASN:ND2	2.12	0.47
1:O:288:GLN:HG3	1:O:689:TYR:HD2	1.78	0.47
1:Q:491:THR:O	1:S:582:THR:HG23	2.14	0.47
1:R:209:ASP:OD2	1:R:209:ASP:N	2.46	0.47
1:R:579:ALA:HA	1:S:483:ARG:HD3	1.95	0.47
1:Y:472:THR:OG1	1:Y:522:ALA:HB1	2.13	0.47
1:Z:579:ALA:HA	1:a:483:ARG:HD3	1.95	0.47
1:d:582:THR:HG23	1:e:491:THR:O	2.14	0.47
1:i:288:GLN:HG3	1:i:689:TYR:HD2	1.78	0.47
1:i:582:THR:HG23	1:j:491:THR:O	2.14	0.47
1:l:582:THR:HG23	1:m:491:THR:O	2.14	0.47
1:l:684:ASN:ND2	1:m:385:PHE:H	2.12	0.47
1:n:209:ASP:OD2	1:n:209:ASP:N	2.46	0.47
1:o:385:PHE:H	1:q:684:ASN:ND2	2.12	0.47
1:r:491:THR:O	1:t:582:THR:HG23	2.14	0.47
1:s:684:ASN:ND2	1:t:385:PHE:H	2.12	0.47
1:x:491:THR:O	1:z:582:THR:HG23	2.14	0.47
1:5:582:THR:HG23	1:6:491:THR:O	2.14	0.47
1:5:684:ASN:ND2	1:6:385:PHE:H	2.12	0.47
1:6:476:ASN:HB2	1:6:480:GLY:HA2	1.94	0.47
1:7:582:THR:HG23	1:8:491:THR:O	2.14	0.47
1:A:491:THR:O	1:8:582:THR:HG23	2.14	0.47
1:C:582:THR:HG23	1:D:491:THR:O	2.14	0.47
1:G:288:GLN:HG3	1:G:689:TYR:HD2	1.78	0.47
1:H:491:THR:O	1:J:582:THR:HG23	2.14	0.47
1:U:288:GLN:HG3	1:U:689:TYR:HD2	1.79	0.47
1:V:288:GLN:HG3	1:V:689:TYR:HD2	1.79	0.47
1:W:582:THR:HG23	1:X:491:THR:O	2.14	0.47
1:X:582:THR:HG23	1:Y:491:THR:O	2.14	0.47
1:Z:582:THR:HG23	1:a:491:THR:O	2.14	0.47
1:d:684:ASN:ND2	1:e:385:PHE:H	2.12	0.47
1:f:472:THR:OG1	1:f:522:ALA:HB1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:288:GLN:HG3	1:h:689:TYR:HD2	1.79	0.47
1:i:385:PHE:H	1:k:684:ASN:ND2	2.12	0.47
1:q:288:GLN:HG3	1:q:689:TYR:HD2	1.79	0.47
1:x:582:THR:HG23	1:y:491:THR:O	2.14	0.47
1:1:385:PHE:H	1:3:684:ASN:ND2	2.12	0.47
1:1:491:THR:O	1:3:582:THR:HG23	2.14	0.47
1:1:684:ASN:ND2	1:2:385:PHE:H	2.12	0.47
1:2:209:ASP:OD2	1:2:209:ASP:N	2.46	0.47
1:2:579:ALA:HA	1:3:483:ARG:HD3	1.95	0.47
1:7:579:ALA:HA	1:8:483:ARG:HD3	1.95	0.47
1:B:476:ASN:HB2	1:B:480:GLY:HA2	1.94	0.47
1:F:209:ASP:OD2	1:F:209:ASP:N	2.46	0.47
1:I:582:THR:HG23	1:J:491:THR:O	2.14	0.47
1:K:633:PRO:HA	1:K:634:PRO:HD3	1.73	0.47
1:O:582:THR:HG23	1:P:491:THR:O	2.14	0.47
1:P:472:THR:OG1	1:P:522:ALA:HB1	2.13	0.47
1:Y:314:VAL:O	1:Y:660:THR:HG23	2.15	0.47
1:a:582:THR:HG23	1:b:491:THR:O	2.14	0.47
1:c:684:ASN:ND2	1:d:385:PHE:H	2.12	0.47
1:f:288:GLN:HG3	1:f:689:TYR:HD2	1.78	0.47
1:m:684:ASN:ND2	1:n:385:PHE:H	2.12	0.47
1:n:314:VAL:O	1:n:660:THR:HG23	2.15	0.47
1:u:288:GLN:HG3	1:u:689:TYR:HD2	1.78	0.47
1:y:472:THR:OG1	1:y:522:ALA:HB1	2.13	0.47
1:z:476:ASN:HB2	1:z:480:GLY:HA2	1.94	0.47
1:2:314:VAL:O	1:2:660:THR:HG23	2.15	0.47
1:B:684:ASN:ND2	1:C:385:PHE:H	2.12	0.47
1:F:579:ALA:HA	1:G:483:ARG:HD3	1.95	0.47
1:H:314:VAL:O	1:H:660:THR:HG23	2.15	0.47
1:I:532:GLN:H	1:I:532:GLN:HG2	1.54	0.47
1:M:209:ASP:OD2	1:M:209:ASP:N	2.46	0.47
1:N:209:ASP:OD2	1:N:209:ASP:N	2.46	0.47
1:N:579:ALA:HA	1:O:483:ARG:HD3	1.95	0.47
1:U:582:THR:HG23	1:V:491:THR:O	2.14	0.47
1:V:314:VAL:O	1:V:660:THR:HG23	2.15	0.47
1:V:472:THR:OG1	1:V:522:ALA:HB1	2.13	0.47
1:c:579:ALA:HA	1:d:483:ARG:HD3	1.95	0.47
1:f:314:VAL:O	1:f:660:THR:HG23	2.15	0.47
1:g:288:GLN:HG3	1:g:689:TYR:HD2	1.78	0.47
1:m:209:ASP:OD2	1:m:209:ASP:N	2.46	0.47
1:o:483:ARG:HD3	1:q:579:ALA:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:472:THR:OG1	1:r:522:ALA:HB1	2.13	0.47
1:r:684:ASN:ND2	1:s:385:PHE:H	2.12	0.47
1:s:633:PRO:HA	1:s:634:PRO:HD3	1.74	0.47
1:u:579:ALA:HA	1:v:483:ARG:HD3	1.95	0.47
1:1:209:ASP:OD2	1:1:209:ASP:N	2.46	0.47
1:4:684:ASN:ND2	1:5:385:PHE:H	2.12	0.47
1:A:582:THR:HG23	1:7:491:THR:O	2.14	0.47
1:D:472:THR:OG1	1:D:522:ALA:HB1	2.13	0.47
1:E:491:THR:O	1:G:582:THR:HG23	2.14	0.47
1:J:633:PRO:HA	1:J:634:PRO:HD3	1.73	0.47
1:P:515:LEU:O	1:P:516:GLN:HB2	2.15	0.47
1:T:677:LYS:HB3	1:T:677:LYS:HE2	1.68	0.47
1:Z:491:THR:O	1:b:582:THR:HG23	2.14	0.47
1:b:428:ASN:HA	1:b:429:PRO:HD3	1.75	0.47
1:e:314:VAL:O	1:e:660:THR:HG23	2.15	0.47
1:f:491:THR:O	1:h:582:THR:HG23	2.14	0.47
1:i:209:ASP:OD2	1:i:209:ASP:N	2.46	0.47
1:j:472:THR:OG1	1:j:522:ALA:HB1	2.13	0.47
1:l:491:THR:O	1:n:582:THR:HG23	2.14	0.47
1:o:491:THR:O	1:q:582:THR:HG23	2.14	0.47
1:o:515:LEU:O	1:o:516:GLN:HB2	2.15	0.47
1:s:515:LEU:O	1:s:516:GLN:HB2	2.15	0.47
1:v:515:LEU:O	1:v:516:GLN:HB2	2.15	0.47
1:x:385:PHE:H	1:z:684:ASN:ND2	2.12	0.47
1:x:633:PRO:HA	1:x:634:PRO:HD3	1.73	0.47
1:2:582:THR:HG23	1:3:491:THR:O	2.14	0.47
1:3:633:PRO:HA	1:3:634:PRO:HD3	1.73	0.47
1:4:579:ALA:HA	1:5:483:ARG:HD3	1.95	0.47
1:D:515:LEU:O	1:D:516:GLN:HB2	2.15	0.47
1:E:515:LEU:O	1:E:516:GLN:HB2	2.15	0.47
1:Q:209:ASP:OD2	1:Q:209:ASP:N	2.46	0.47
1:T:288:GLN:HG3	1:T:689:TYR:HD2	1.78	0.47
1:j:684:ASN:ND2	1:k:385:PHE:H	2.12	0.47
1:k:515:LEU:O	1:k:516:GLN:HB2	2.15	0.47
1:q:314:VAL:O	1:q:660:THR:HG23	2.15	0.47
1:t:515:LEU:O	1:t:516:GLN:HB2	2.15	0.47
1:u:314:VAL:O	1:u:660:THR:HG23	2.15	0.47
1:u:515:LEU:O	1:u:516:GLN:HB2	2.15	0.47
1:u:582:THR:HG23	1:v:491:THR:O	2.14	0.47
1:v:579:ALA:HA	1:w:483:ARG:HD3	1.95	0.47
1:y:515:LEU:O	1:y:516:GLN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:314:VAL:O	1:6:660:THR:HG23	2.15	0.47
1:6:532:GLN:H	1:6:532:GLN:HG2	1.54	0.47
1:A:288:GLN:HG3	1:A:689:TYR:HD2	1.78	0.47
1:A:515:LEU:O	1:A:516:GLN:HB2	2.15	0.47
1:D:314:VAL:O	1:D:660:THR:HG23	2.15	0.47
1:E:384:SER:OG	1:G:682:ARG:NH1	2.48	0.47
1:G:314:VAL:O	1:G:660:THR:HG23	2.15	0.47
1:H:582:THR:HG23	1:I:491:THR:O	2.14	0.47
1:H:684:ASN:ND2	1:I:385:PHE:H	2.12	0.47
1:I:515:LEU:O	1:I:516:GLN:HB2	2.15	0.47
1:J:314:VAL:O	1:J:660:THR:HG23	2.15	0.47
1:K:314:VAL:O	1:K:660:THR:HG23	2.15	0.47
1:K:515:LEU:O	1:K:516:GLN:HB2	2.15	0.47
1:M:314:VAL:O	1:M:660:THR:HG23	2.15	0.47
1:O:314:VAL:O	1:O:660:THR:HG23	2.15	0.47
1:Q:314:VAL:O	1:Q:660:THR:HG23	2.15	0.47
1:R:314:VAL:O	1:R:660:THR:HG23	2.15	0.47
1:R:515:LEU:O	1:R:516:GLN:HB2	2.15	0.47
1:R:684:ASN:ND2	1:S:385:PHE:H	2.12	0.47
1:T:314:VAL:O	1:T:660:THR:HG23	2.15	0.47
1:U:472:THR:OG1	1:U:522:ALA:HB1	2.13	0.47
1:W:491:THR:O	1:Y:582:THR:HG23	2.14	0.47
1:W:515:LEU:O	1:W:516:GLN:HB2	2.15	0.47
1:X:314:VAL:O	1:X:660:THR:HG23	2.15	0.47
1:a:314:VAL:O	1:a:660:THR:HG23	2.15	0.47
1:b:288:GLN:HG3	1:b:689:TYR:HD2	1.78	0.47
1:b:515:LEU:O	1:b:516:GLN:HB2	2.15	0.47
1:c:582:THR:HG23	1:d:491:THR:O	2.14	0.47
1:d:515:LEU:O	1:d:516:GLN:HB2	2.15	0.47
1:e:515:LEU:O	1:e:516:GLN:HB2	2.15	0.47
1:g:314:VAL:O	1:g:660:THR:HG23	2.15	0.47
1:g:677:LYS:HB3	1:g:677:LYS:HE2	1.68	0.47
1:h:472:THR:OG1	1:h:522:ALA:HB1	2.13	0.47
1:i:515:LEU:O	1:i:516:GLN:HB2	2.15	0.47
1:m:515:LEU:O	1:m:516:GLN:HB2	2.15	0.47
1:m:677:LYS:HB3	1:m:677:LYS:HE2	1.68	0.47
1:o:579:ALA:HA	1:p:483:ARG:HD3	1.95	0.47
1:q:515:LEU:O	1:q:516:GLN:HB2	2.15	0.47
1:s:582:THR:HG23	1:t:491:THR:O	2.14	0.47
1:t:209:ASP:OD2	1:t:209:ASP:N	2.46	0.47
1:y:314:VAL:O	1:y:660:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:515:LEU:O	1:1:516:GLN:HB2	2.15	0.47
1:4:582:THR:HG23	1:5:491:THR:O	2.14	0.47
1:5:515:LEU:O	1:5:516:GLN:HB2	2.15	0.47
1:E:436:TYR:CD1	1:F:547:MET:HE1	2.50	0.47
1:E:682:ARG:NH1	1:F:384:SER:OG	2.48	0.47
1:H:436:TYR:CD1	1:I:547:MET:HE1	2.50	0.47
1:K:684:ASN:ND2	1:L:385:PHE:H	2.12	0.47
1:N:384:SER:OG	1:P:682:ARG:NH1	2.48	0.47
1:N:547:MET:HE1	1:P:436:TYR:CD1	2.50	0.47
1:N:582:THR:HG23	1:O:491:THR:O	2.14	0.47
1:O:682:ARG:NH1	1:P:384:SER:OG	2.48	0.47
1:S:314:VAL:O	1:S:660:THR:HG23	2.15	0.47
1:T:491:THR:O	1:V:582:THR:HG23	2.14	0.47
1:T:515:LEU:O	1:T:516:GLN:HB2	2.15	0.47
1:W:385:PHE:H	1:Y:684:ASN:ND2	2.12	0.47
1:W:547:MET:HE1	1:Y:436:TYR:CD1	2.50	0.47
1:Z:682:ARG:NH1	1:a:384:SER:OG	2.48	0.47
1:a:515:LEU:O	1:a:516:GLN:HB2	2.15	0.47
1:g:515:LEU:O	1:g:516:GLN:HB2	2.15	0.47
1:i:491:THR:O	1:k:582:THR:HG23	2.14	0.47
1:l:633:PRO:HA	1:l:634:PRO:HD3	1.73	0.47
1:1:314:VAL:O	1:1:660:THR:HG23	2.15	0.47
1:6:515:LEU:O	1:6:516:GLN:HB2	2.15	0.47
1:7:682:ARG:NH1	1:8:384:SER:OG	2.48	0.47
1:8:314:VAL:O	1:8:660:THR:HG23	2.15	0.47
1:B:384:SER:OG	1:D:682:ARG:NH1	2.48	0.47
1:B:476:ASN:CB	1:B:480:GLY:HA2	2.45	0.47
1:B:515:LEU:O	1:B:516:GLN:HB2	2.15	0.47
1:C:314:VAL:O	1:C:660:THR:HG23	2.15	0.47
1:F:582:THR:HG23	1:G:491:THR:O	2.14	0.47
1:K:436:TYR:CD1	1:L:547:MET:HE1	2.50	0.47
1:L:314:VAL:O	1:L:660:THR:HG23	2.15	0.47
1:L:682:ARG:NH1	1:M:384:SER:OG	2.48	0.47
1:T:384:SER:OG	1:V:682:ARG:NH1	2.48	0.47
1:T:436:TYR:CD1	1:U:547:MET:HE1	2.50	0.47
1:Z:314:VAL:O	1:Z:660:THR:HG23	2.15	0.47
1:c:436:TYR:CD1	1:d:547:MET:HE1	2.50	0.47
1:f:582:THR:HG23	1:g:491:THR:O	2.14	0.47
1:f:682:ARG:NH1	1:g:384:SER:OG	2.48	0.47
1:g:436:TYR:CD1	1:h:547:MET:HE1	2.50	0.47
1:k:633:PRO:HA	1:k:634:PRO:HD3	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:385:PHE:H	1:n:684:ASN:ND2	2.12	0.47
1:m:314:VAL:O	1:m:660:THR:HG23	2.15	0.47
1:o:682:ARG:NH1	1:p:384:SER:OG	2.48	0.47
1:u:491:THR:O	1:w:582:THR:HG23	2.14	0.47
1:u:682:ARG:NH1	1:v:384:SER:OG	2.48	0.47
1:v:682:ARG:NH1	1:w:384:SER:OG	2.48	0.47
1:y:682:ARG:NH1	1:z:384:SER:OG	2.48	0.47
1:3:515:LEU:O	1:3:516:GLN:HB2	2.15	0.47
1:4:436:TYR:CD1	1:5:547:MET:HE1	2.50	0.47
1:8:209:ASP:OD2	1:8:209:ASP:N	2.46	0.47
1:8:515:LEU:O	1:8:516:GLN:HB2	2.15	0.47
1:A:428:ASN:HA	1:A:429:PRO:HD3	1.75	0.47
1:F:515:LEU:O	1:F:516:GLN:HB2	2.15	0.47
1:G:515:LEU:O	1:G:516:GLN:HB2	2.15	0.47
1:Q:384:SER:OG	1:S:682:ARG:NH1	2.48	0.47
1:R:436:TYR:CD1	1:S:547:MET:HE1	2.50	0.47
1:T:547:MET:HE1	1:V:436:TYR:CD1	2.50	0.47
1:U:436:TYR:CD1	1:V:547:MET:HE1	2.50	0.47
1:U:476:ASN:CB	1:U:480:GLY:HA2	2.45	0.47
1:U:682:ARG:NH1	1:V:384:SER:OG	2.48	0.47
1:a:209:ASP:OD2	1:a:209:ASP:N	2.46	0.47
1:c:476:ASN:CB	1:c:480:GLY:HA2	2.45	0.47
1:c:491:THR:O	1:e:582:THR:HG23	2.14	0.47
1:c:682:ARG:NH1	1:d:384:SER:OG	2.48	0.47
1:f:436:TYR:CD1	1:g:547:MET:HE1	2.50	0.47
1:f:547:MET:HE1	1:h:436:TYR:CD1	2.50	0.47
1:h:476:ASN:CB	1:h:480:GLY:HA2	2.45	0.47
1:h:515:LEU:O	1:h:516:GLN:HB2	2.15	0.47
1:i:476:ASN:CB	1:i:480:GLY:HA2	2.45	0.47
1:j:582:THR:HG23	1:k:491:THR:O	2.14	0.47
1:l:314:VAL:O	1:l:660:THR:HG23	2.15	0.47
1:l:515:LEU:O	1:l:516:GLN:HB2	2.15	0.47
1:o:384:SER:OG	1:q:682:ARG:NH1	2.48	0.47
1:o:582:THR:HG23	1:p:491:THR:O	2.14	0.47
1:p:582:THR:HG23	1:q:491:THR:O	2.14	0.47
1:r:547:MET:HE1	1:t:436:TYR:CD1	2.50	0.47
1:t:314:VAL:O	1:t:660:THR:HG23	2.15	0.47
1:t:476:ASN:CB	1:t:480:GLY:HA2	2.45	0.47
1:x:288:GLN:HG3	1:x:689:TYR:HD2	1.78	0.47
1:z:476:ASN:CB	1:z:480:GLY:HA2	2.45	0.47
1:z:515:LEU:O	1:z:516:GLN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:684:ASN:ND2	1:3:385:PHE:H	2.12	0.47
1:3:314:VAL:O	1:3:660:THR:HG23	2.15	0.47
1:4:682:ARG:NH1	1:5:384:SER:OG	2.48	0.47
1:5:436:TYR:CD1	1:6:547:MET:HE1	2.50	0.47
1:7:314:VAL:O	1:7:660:THR:HG23	2.15	0.47
1:8:288:GLN:HG3	1:8:689:TYR:HD2	1.78	0.47
1:A:384:SER:OG	1:8:682:ARG:NH1	2.48	0.46
1:B:314:VAL:O	1:B:660:THR:HG23	2.15	0.46
1:C:633:PRO:HA	1:C:634:PRO:HD3	1.73	0.46
1:E:314:VAL:O	1:E:660:THR:HG23	2.15	0.46
1:F:314:VAL:O	1:F:660:THR:HG23	2.15	0.46
1:H:476:ASN:CB	1:H:480:GLY:HA2	2.45	0.46
1:I:476:ASN:CB	1:I:480:GLY:HA2	2.45	0.46
1:K:384:SER:OG	1:M:682:ARG:NH1	2.48	0.46
1:L:515:LEU:O	1:L:516:GLN:HB2	2.15	0.46
1:N:515:LEU:O	1:N:516:GLN:HB2	2.15	0.46
1:O:515:LEU:O	1:O:516:GLN:HB2	2.15	0.46
1:S:515:LEU:O	1:S:516:GLN:HB2	2.15	0.46
1:U:515:LEU:O	1:U:516:GLN:HB2	2.15	0.46
1:W:476:ASN:CB	1:W:480:GLY:HA2	2.45	0.46
1:Y:476:ASN:CB	1:Y:480:GLY:HA2	2.45	0.46
1:Z:384:SER:OG	1:b:682:ARG:NH1	2.48	0.46
1:a:682:ARG:NH1	1:b:384:SER:OG	2.48	0.46
1:d:314:VAL:O	1:d:660:THR:HG23	2.15	0.46
1:d:436:TYR:CD1	1:e:547:MET:HE1	2.50	0.46
1:d:476:ASN:CB	1:d:480:GLY:HA2	2.45	0.46
1:f:384:SER:OG	1:h:682:ARG:NH1	2.48	0.46
1:i:314:VAL:O	1:i:660:THR:HG23	2.15	0.46
1:i:436:TYR:CD1	1:j:547:MET:HE1	2.50	0.46
1:j:515:LEU:O	1:j:516:GLN:HB2	2.15	0.46
1:m:682:ARG:NH1	1:n:384:SER:OG	2.48	0.46
1:v:582:THR:HG23	1:w:491:THR:O	2.14	0.46
1:v:677:LYS:HB3	1:v:677:LYS:HE2	1.68	0.46
1:x:314:VAL:O	1:x:660:THR:HG23	2.15	0.46
1:x:384:SER:OG	1:z:682:ARG:NH1	2.48	0.46
1:x:515:LEU:O	1:x:516:GLN:HB2	2.15	0.46
1:x:547:MET:HE1	1:z:436:TYR:CD1	2.50	0.46
1:4:476:ASN:CB	1:4:480:GLY:HA2	2.45	0.46
1:5:314:VAL:O	1:5:660:THR:HG23	2.15	0.46
1:5:476:ASN:CB	1:5:480:GLY:HA2	2.45	0.46
1:A:682:ARG:NH1	1:7:384:SER:OG	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:436:TYR:CD1	1:C:547:MET:HE1	2.50	0.46
1:B:682:ARG:NH1	1:C:384:SER:OG	2.48	0.46
1:C:288:GLN:HG3	1:C:689:TYR:HD2	1.78	0.46
1:C:436:TYR:CD1	1:D:547:MET:HE1	2.50	0.46
1:C:515:LEU:O	1:C:516:GLN:HB2	2.15	0.46
1:I:314:VAL:O	1:I:660:THR:HG23	2.15	0.46
1:N:314:VAL:O	1:N:660:THR:HG23	2.15	0.46
1:P:314:VAL:O	1:P:660:THR:HG23	2.15	0.46
1:Q:682:ARG:NH1	1:R:384:SER:OG	2.48	0.46
1:T:682:ARG:NH1	1:U:384:SER:OG	2.48	0.46
1:a:288:GLN:HG3	1:a:689:TYR:HD2	1.78	0.46
1:e:476:ASN:CB	1:e:480:GLY:HA2	2.45	0.46
1:g:682:ARG:NH1	1:h:384:SER:OG	2.48	0.46
1:j:314:VAL:O	1:j:660:THR:HG23	2.15	0.46
1:o:436:TYR:CD1	1:p:547:MET:HE1	2.50	0.46
1:r:582:THR:HG23	1:s:491:THR:O	2.14	0.46
1:s:436:TYR:CD1	1:t:547:MET:HE1	2.50	0.46
1:s:682:ARG:NH1	1:t:384:SER:OG	2.48	0.46
1:u:633:PRO:HA	1:u:634:PRO:HD3	1.73	0.46
1:1:682:ARG:NH1	1:2:384:SER:OG	2.48	0.46
1:4:491:THR:O	1:6:582:THR:HG23	2.14	0.46
1:4:515:LEU:O	1:4:516:GLN:HB2	2.15	0.46
1:6:476:ASN:CB	1:6:480:GLY:HA2	2.45	0.46
1:B:288:GLN:HG3	1:B:689:TYR:HD2	1.79	0.46
1:F:476:ASN:CB	1:F:480:GLY:HA2	2.45	0.46
1:N:476:ASN:CB	1:N:480:GLY:HA2	2.45	0.46
1:P:532:GLN:H	1:P:532:GLN:HG2	1.54	0.46
1:V:476:ASN:CB	1:V:480:GLY:HA2	2.45	0.46
1:a:436:TYR:CD1	1:b:547:MET:HE1	2.50	0.46
1:c:547:MET:HE1	1:e:436:TYR:CD1	2.50	0.46
1:f:515:LEU:O	1:f:516:GLN:HB2	2.15	0.46
1:i:547:MET:HE1	1:k:436:TYR:CD1	2.50	0.46
1:r:314:VAL:O	1:r:660:THR:HG23	2.15	0.46
1:r:515:LEU:O	1:r:516:GLN:HB2	2.15	0.46
1:v:436:TYR:CD1	1:w:547:MET:HE1	2.50	0.46
1:v:476:ASN:CB	1:v:480:GLY:HA2	2.45	0.46
1:w:515:LEU:O	1:w:516:GLN:HB2	2.15	0.46
1:x:436:TYR:CD1	1:y:547:MET:HE1	2.50	0.46
1:z:314:VAL:O	1:z:660:THR:HG23	2.15	0.46
1:4:547:MET:HE1	1:6:436:TYR:CD1	2.50	0.46
1:A:314:VAL:O	1:A:660:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:547:MET:HE1	1:8:436:TYR:CD1	2.50	0.46
1:G:476:ASN:CB	1:G:480:GLY:HA2	2.45	0.46
1:M:476:ASN:CB	1:M:480:GLY:HA2	2.45	0.46
1:N:682:ARG:NH1	1:O:384:SER:OG	2.48	0.46
1:O:476:ASN:CB	1:O:480:GLY:HA2	2.45	0.46
1:Q:476:ASN:CB	1:Q:480:GLY:HA2	2.45	0.46
1:V:515:LEU:O	1:V:516:GLN:HB2	2.15	0.46
1:W:314:VAL:O	1:W:660:THR:HG23	2.15	0.46
1:Y:515:LEU:O	1:Y:516:GLN:HB2	2.15	0.46
1:Z:515:LEU:O	1:Z:516:GLN:HB2	2.15	0.46
1:c:515:LEU:O	1:c:516:GLN:HB2	2.15	0.46
1:f:476:ASN:CB	1:f:480:GLY:HA2	2.45	0.46
1:i:384:SER:OG	1:k:682:ARG:NH1	2.48	0.46
1:i:682:ARG:NH1	1:j:384:SER:OG	2.48	0.46
1:n:288:GLN:HG3	1:n:689:TYR:HD2	1.79	0.46
1:o:476:ASN:CB	1:o:480:GLY:HA2	2.45	0.46
1:p:314:VAL:O	1:p:660:THR:HG23	2.15	0.46
1:p:436:TYR:CD1	1:q:547:MET:HE1	2.50	0.46
1:p:515:LEU:O	1:p:516:GLN:HB2	2.15	0.46
1:r:682:ARG:NH1	1:s:384:SER:OG	2.48	0.46
1:s:314:VAL:O	1:s:660:THR:HG23	2.15	0.46
1:u:476:ASN:CB	1:u:480:GLY:HA2	2.45	0.46
1:w:288:GLN:HG3	1:w:689:TYR:HD2	1.79	0.46
1:E:476:ASN:CB	1:E:480:GLY:HA2	2.45	0.46
1:H:515:LEU:O	1:H:516:GLN:HB2	2.15	0.46
1:H:682:ARG:NH1	1:I:384:SER:OG	2.48	0.46
1:L:476:ASN:CB	1:L:480:GLY:HA2	2.45	0.46
1:M:515:LEU:O	1:M:516:GLN:HB2	2.15	0.46
1:P:476:ASN:CB	1:P:480:GLY:HA2	2.45	0.46
1:S:476:ASN:CB	1:S:480:GLY:HA2	2.45	0.46
1:T:582:THR:HG23	1:U:491:THR:O	2.14	0.46
1:j:682:ARG:NH1	1:k:384:SER:OG	2.48	0.46
1:l:682:ARG:NH1	1:m:384:SER:OG	2.48	0.46
1:n:515:LEU:O	1:n:516:GLN:HB2	2.15	0.46
1:o:314:VAL:O	1:o:660:THR:HG23	2.15	0.46
1:p:288:GLN:HG3	1:p:689:TYR:HD2	1.79	0.46
1:q:476:ASN:CB	1:q:480:GLY:HA2	2.45	0.46
1:r:384:SER:OG	1:t:682:ARG:NH1	2.48	0.46
1:u:547:MET:HE1	1:w:436:TYR:CD1	2.50	0.46
1:w:314:VAL:O	1:w:660:THR:HG23	2.15	0.46
1:z:288:GLN:HG3	1:z:689:TYR:HD2	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:547:MET:HE1	1:3:436:TYR:CD1	2.50	0.46
1:2:288:GLN:HG3	1:2:689:TYR:HD2	1.79	0.46
1:2:515:LEU:O	1:2:516:GLN:HB2	2.15	0.46
1:7:515:LEU:O	1:7:516:GLN:HB2	2.15	0.46
1:A:677:LYS:HB3	1:A:677:LYS:HE2	1.68	0.46
1:B:547:MET:HE1	1:D:436:TYR:CD1	2.50	0.46
1:F:682:ARG:NH1	1:G:384:SER:OG	2.48	0.46
1:J:476:ASN:CB	1:J:480:GLY:HA2	2.45	0.46
1:K:682:ARG:NH1	1:L:384:SER:OG	2.48	0.46
1:L:436:TYR:CD1	1:M:547:MET:HE1	2.50	0.46
1:O:436:TYR:CD1	1:P:547:MET:HE1	2.50	0.46
1:Q:515:LEU:O	1:Q:516:GLN:HB2	2.15	0.46
1:R:682:ARG:NH1	1:S:384:SER:OG	2.48	0.46
1:X:476:ASN:CB	1:X:480:GLY:HA2	2.45	0.46
1:X:682:ARG:NH1	1:Y:384:SER:OG	2.48	0.46
1:a:476:ASN:CB	1:a:480:GLY:HA2	2.45	0.46
1:b:314:VAL:O	1:b:660:THR:HG23	2.15	0.46
1:b:476:ASN:CB	1:b:480:GLY:HA2	2.45	0.46
1:c:384:SER:OG	1:e:682:ARG:NH1	2.48	0.46
1:g:582:THR:HG23	1:h:491:THR:O	2.14	0.46
1:k:314:VAL:O	1:k:660:THR:HG23	2.15	0.46
1:l:384:SER:OG	1:n:682:ARG:NH1	2.48	0.46
1:l:436:TYR:CD1	1:m:547:MET:HE1	2.50	0.46
1:y:436:TYR:CD1	1:z:547:MET:HE1	2.50	0.46
1:y:476:ASN:CB	1:y:480:GLY:HA2	2.45	0.46
1:1:384:SER:OG	1:3:682:ARG:NH1	2.48	0.46
1:2:682:ARG:NH1	1:3:384:SER:OG	2.48	0.46
1:4:384:SER:OG	1:6:682:ARG:NH1	2.48	0.46
1:A:476:ASN:CB	1:A:480:GLY:HA2	2.45	0.46
1:C:682:ARG:NH1	1:D:384:SER:OG	2.48	0.46
1:E:532:GLN:H	1:E:532:GLN:HG2	1.54	0.46
1:E:547:MET:HE1	1:G:436:TYR:CD1	2.50	0.46
1:F:436:TYR:CD1	1:G:547:MET:HE1	2.50	0.46
1:H:384:SER:OG	1:J:682:ARG:NH1	2.48	0.46
1:I:436:TYR:CD1	1:J:547:MET:HE1	2.50	0.46
1:N:436:TYR:CD1	1:O:547:MET:HE1	2.50	0.46
1:Q:436:TYR:CD1	1:R:547:MET:HE1	2.50	0.46
1:Q:547:MET:HE1	1:S:436:TYR:CD1	2.50	0.46
1:W:384:SER:OG	1:Y:682:ARG:NH1	2.48	0.46
1:W:436:TYR:CD1	1:X:547:MET:HE1	2.50	0.46
1:j:476:ASN:CB	1:j:480:GLY:HA2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:547:MET:HE1	1:n:436:TYR:CD1	2.50	0.46
1:v:314:VAL:O	1:v:660:THR:HG23	2.15	0.46
1:w:476:ASN:CB	1:w:480:GLY:HA2	2.45	0.46
1:x:682:ARG:NH1	1:y:384:SER:OG	2.48	0.46
1:8:476:ASN:CB	1:8:480:GLY:HA2	2.45	0.46
1:D:476:ASN:CB	1:D:480:GLY:HA2	2.45	0.46
1:Z:436:TYR:CD1	1:a:547:MET:HE1	2.50	0.46
1:Z:547:MET:HE1	1:b:436:TYR:CD1	2.50	0.46
1:h:314:VAL:O	1:h:660:THR:HG23	2.15	0.46
1:m:436:TYR:CD1	1:n:547:MET:HE1	2.50	0.46
1:n:476:ASN:CB	1:n:480:GLY:HA2	2.45	0.46
1:o:677:LYS:HB3	1:o:677:LYS:HE2	1.68	0.46
1:p:476:ASN:CB	1:p:480:GLY:HA2	2.45	0.46
1:1:436:TYR:CD1	1:2:547:MET:HE1	2.50	0.46
1:5:682:ARG:NH1	1:6:384:SER:OG	2.48	0.46
1:A:436:TYR:CD1	1:7:547:MET:HE1	2.50	0.46
1:K:547:MET:HE1	1:M:436:TYR:CD1	2.50	0.46
1:W:682:ARG:NH1	1:X:384:SER:OG	2.48	0.46
1:b:677:LYS:HB3	1:b:677:LYS:HE2	1.68	0.46
1:d:682:ARG:NH1	1:e:384:SER:OG	2.48	0.46
1:e:532:GLN:H	1:e:532:GLN:HG2	1.54	0.46
1:g:476:ASN:CB	1:g:480:GLY:HA2	2.45	0.46
1:q:633:PRO:HA	1:q:634:PRO:HD3	1.73	0.46
1:r:476:ASN:CB	1:r:480:GLY:HA2	2.45	0.46
1:2:436:TYR:CD1	1:3:547:MET:HE1	2.50	0.46
1:2:476:ASN:CB	1:2:480:GLY:HA2	2.45	0.46
1:4:314:VAL:O	1:4:660:THR:HG23	2.15	0.46
1:6:677:LYS:HB3	1:6:677:LYS:HE2	1.68	0.46
1:7:436:TYR:CD1	1:8:547:MET:HE1	2.50	0.46
1:I:682:ARG:NH1	1:J:384:SER:OG	2.48	0.46
1:T:476:ASN:CB	1:T:480:GLY:HA2	2.45	0.46
1:U:314:VAL:O	1:U:660:THR:HG23	2.15	0.46
1:Y:633:PRO:HA	1:Y:634:PRO:HD3	1.73	0.46
1:p:682:ARG:NH1	1:q:384:SER:OG	2.48	0.46
1:u:384:SER:OG	1:w:682:ARG:NH1	2.48	0.46
1:1:476:ASN:CB	1:1:480:GLY:HA2	2.45	0.46
1:H:547:MET:HE1	1:J:436:TYR:CD1	2.50	0.45
1:K:428:ASN:HD22	1:K:430:LEU:H	1.65	0.45
1:R:428:ASN:HD22	1:R:430:LEU:H	1.65	0.45
1:Z:532:GLN:H	1:Z:532:GLN:HG2	1.54	0.45
1:c:314:VAL:O	1:c:660:THR:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:428:ASN:HD22	1:j:430:LEU:H	1.65	0.45
1:r:428:ASN:HD22	1:r:430:LEU:H	1.65	0.45
1:C:522:ALA:O	1:C:526:THR:HG22	2.17	0.45
1:E:428:ASN:HD22	1:E:430:LEU:H	1.65	0.45
1:G:522:ALA:O	1:G:526:THR:HG22	2.17	0.45
1:N:522:ALA:O	1:N:526:THR:HG22	2.17	0.45
1:O:522:ALA:O	1:O:526:THR:HG22	2.17	0.45
1:V:522:ALA:O	1:V:526:THR:HG22	2.17	0.45
1:X:436:TYR:CD1	1:Y:547:MET:HE1	2.50	0.45
1:f:522:ALA:O	1:f:526:THR:HG22	2.17	0.45
1:m:476:ASN:CB	1:m:480:GLY:HA2	2.45	0.45
1:s:476:ASN:CB	1:s:480:GLY:HA2	2.45	0.45
1:x:522:ALA:O	1:x:526:THR:HG22	2.17	0.45
1:8:522:ALA:O	1:8:526:THR:HG22	2.17	0.45
1:F:522:ALA:O	1:F:526:THR:HG22	2.17	0.45
1:P:428:ASN:HD22	1:P:430:LEU:H	1.65	0.45
1:T:522:ALA:O	1:T:526:THR:HG22	2.17	0.45
1:a:522:ALA:O	1:a:526:THR:HG22	2.17	0.45
1:c:522:ALA:O	1:c:526:THR:HG22	2.17	0.45
1:e:677:LYS:HB3	1:e:677:LYS:HE2	1.68	0.45
1:g:522:ALA:O	1:g:526:THR:HG22	2.17	0.45
1:i:522:ALA:O	1:i:526:THR:HG22	2.17	0.45
1:j:436:TYR:CD1	1:k:547:MET:HE1	2.50	0.45
1:k:476:ASN:CB	1:k:480:GLY:HA2	2.45	0.45
1:r:436:TYR:CD1	1:s:547:MET:HE1	2.50	0.45
1:4:522:ALA:O	1:4:526:THR:HG22	2.17	0.45
1:D:522:ALA:O	1:D:526:THR:HG22	2.17	0.45
1:J:515:LEU:O	1:J:516:GLN:HB2	2.15	0.45
1:L:522:ALA:O	1:L:526:THR:HG22	2.17	0.45
1:Q:428:ASN:HD22	1:Q:430:LEU:H	1.64	0.45
1:U:428:ASN:HD22	1:U:430:LEU:H	1.65	0.45
1:X:532:GLN:H	1:X:532:GLN:HG2	1.54	0.45
1:c:633:PRO:HA	1:c:634:PRO:HD3	1.73	0.45
1:e:522:ALA:O	1:e:526:THR:HG22	2.17	0.45
1:h:428:ASN:HD22	1:h:430:LEU:H	1.65	0.45
1:l:476:ASN:CB	1:l:480:GLY:HA2	2.45	0.45
1:m:522:ALA:O	1:m:526:THR:HG22	2.17	0.45
1:o:428:ASN:HD22	1:o:430:LEU:H	1.65	0.45
1:t:522:ALA:O	1:t:526:THR:HG22	2.17	0.45
1:v:428:ASN:HD22	1:v:430:LEU:H	1.65	0.45
1:w:522:ALA:O	1:w:526:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:476:ASN:CB	1:x:480:GLY:HA2	2.45	0.45
1:1:522:ALA:O	1:1:526:THR:HG22	2.17	0.45
1:6:522:ALA:O	1:6:526:THR:HG22	2.17	0.45
1:C:428:ASN:HD22	1:C:430:LEU:H	1.65	0.45
1:C:476:ASN:CB	1:C:480:GLY:HA2	2.45	0.45
1:H:633:PRO:HA	1:H:634:PRO:HD3	1.73	0.45
1:I:428:ASN:HD22	1:I:430:LEU:H	1.65	0.45
1:K:476:ASN:CB	1:K:480:GLY:HA2	2.45	0.45
1:M:428:ASN:HD22	1:M:430:LEU:H	1.64	0.45
1:R:476:ASN:CB	1:R:480:GLY:HA2	2.45	0.45
1:S:522:ALA:O	1:S:526:THR:HG22	2.17	0.45
1:X:515:LEU:O	1:X:516:GLN:HB2	2.15	0.45
1:n:428:ASN:HD22	1:n:430:LEU:H	1.65	0.45
1:p:522:ALA:O	1:p:526:THR:HG22	2.17	0.45
1:u:436:TYR:CD1	1:v:547:MET:HE1	2.50	0.45
1:x:428:ASN:HD22	1:x:430:LEU:H	1.65	0.45
1:y:522:ALA:O	1:y:526:THR:HG22	2.17	0.45
1:3:476:ASN:CB	1:3:480:GLY:HA2	2.45	0.45
1:7:476:ASN:CB	1:7:480:GLY:HA2	2.45	0.45
1:I:633:PRO:HA	1:I:634:PRO:HD3	1.73	0.45
1:S:428:ASN:HD22	1:S:430:LEU:H	1.65	0.45
1:W:428:ASN:HD22	1:W:430:LEU:H	1.65	0.45
1:W:522:ALA:O	1:W:526:THR:HG22	2.17	0.45
1:Z:476:ASN:CB	1:Z:480:GLY:HA2	2.45	0.45
1:m:428:ASN:HD22	1:m:430:LEU:H	1.65	0.45
1:o:547:MET:HE1	1:q:436:TYR:CD1	2.50	0.45
1:1:428:ASN:HD22	1:1:430:LEU:H	1.65	0.45
1:2:428:ASN:HD22	1:2:430:LEU:H	1.65	0.45
1:4:633:PRO:HA	1:4:634:PRO:HD3	1.73	0.45
1:G:428:ASN:HD22	1:G:430:LEU:H	1.65	0.45
1:I:522:ALA:O	1:I:526:THR:HG22	2.17	0.45
1:L:428:ASN:HD22	1:L:430:LEU:H	1.65	0.45
1:O:428:ASN:HD22	1:O:430:LEU:H	1.65	0.45
1:P:522:ALA:O	1:P:526:THR:HG22	2.17	0.45
1:l:428:ASN:HD22	1:l:430:LEU:H	1.65	0.45
1:q:522:ALA:O	1:q:526:THR:HG22	2.17	0.45
1:u:522:ALA:O	1:u:526:THR:HG22	2.17	0.45
1:2:522:ALA:O	1:2:526:THR:HG22	2.17	0.45
1:3:428:ASN:HD22	1:3:430:LEU:H	1.65	0.45
1:7:532:GLN:H	1:7:532:GLN:HG2	1.54	0.45
1:B:522:ALA:O	1:B:526:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:522:ALA:O	1:E:526:THR:HG22	2.17	0.45
1:H:428:ASN:HD22	1:H:430:LEU:H	1.65	0.45
1:N:633:PRO:HA	1:N:634:PRO:HD3	1.74	0.45
1:R:522:ALA:O	1:R:526:THR:HG22	2.17	0.45
1:Y:428:ASN:HD22	1:Y:430:LEU:H	1.65	0.45
1:Z:522:ALA:O	1:Z:526:THR:HG22	2.17	0.45
1:n:522:ALA:O	1:n:526:THR:HG22	2.17	0.45
1:o:522:ALA:O	1:o:526:THR:HG22	2.17	0.45
1:r:522:ALA:O	1:r:526:THR:HG22	2.17	0.45
1:z:522:ALA:O	1:z:526:THR:HG22	2.17	0.45
1:7:522:ALA:O	1:7:526:THR:HG22	2.17	0.45
1:F:428:ASN:HD22	1:F:430:LEU:H	1.65	0.45
1:F:633:PRO:HA	1:F:634:PRO:HD3	1.74	0.45
1:J:532:GLN:H	1:J:532:GLN:HG2	1.54	0.45
1:N:428:ASN:HD22	1:N:430:LEU:H	1.65	0.45
1:c:428:ASN:HA	1:c:429:PRO:HD3	1.75	0.45
1:d:428:ASN:HA	1:d:429:PRO:HD3	1.75	0.45
1:d:428:ASN:HD22	1:d:430:LEU:H	1.64	0.45
1:f:677:LYS:HB3	1:f:677:LYS:HE2	1.68	0.45
1:i:428:ASN:HD22	1:i:430:LEU:H	1.65	0.45
1:t:428:ASN:HD22	1:t:430:LEU:H	1.65	0.45
1:v:522:ALA:O	1:v:526:THR:HG22	2.17	0.45
1:z:428:ASN:HD22	1:z:430:LEU:H	1.64	0.45
1:B:428:ASN:HD22	1:B:430:LEU:H	1.64	0.45
1:K:522:ALA:O	1:K:526:THR:HG22	2.17	0.45
1:Z:428:ASN:HD22	1:Z:430:LEU:H	1.65	0.45
1:a:532:GLN:H	1:a:532:GLN:HG2	1.54	0.45
1:j:522:ALA:O	1:j:526:THR:HG22	2.17	0.45
1:k:428:ASN:HD22	1:k:430:LEU:H	1.65	0.45
1:4:428:ASN:HA	1:4:429:PRO:HD3	1.75	0.45
1:4:428:ASN:HD22	1:4:430:LEU:H	1.65	0.45
1:7:428:ASN:HD22	1:7:430:LEU:H	1.65	0.45
1:H:522:ALA:O	1:H:526:THR:HG22	2.17	0.44
1:V:633:PRO:HA	1:V:634:PRO:HD3	1.73	0.44
1:W:633:PRO:HA	1:W:634:PRO:HD3	1.73	0.44
1:W:724:LEU:HD23	1:W:724:LEU:HA	1.88	0.44
1:c:428:ASN:HD22	1:c:430:LEU:H	1.65	0.44
1:f:556:GLN:HG3	1:g:498:GLU:HG2	2.00	0.44
1:q:428:ASN:HD22	1:q:430:LEU:H	1.64	0.44
1:r:428:ASN:HA	1:r:429:PRO:HD3	1.75	0.44
1:s:428:ASN:HD22	1:s:430:LEU:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:428:ASN:HD22	1:5:430:LEU:H	1.64	0.44
1:K:428:ASN:HA	1:K:429:PRO:HD3	1.75	0.44
1:T:498:GLU:HG2	1:V:556:GLN:HG3	2.00	0.44
1:Y:522:ALA:O	1:Y:526:THR:HG22	2.17	0.44
1:c:498:GLU:HG2	1:e:556:GLN:HG3	2.00	0.44
1:d:677:LYS:HB3	1:d:677:LYS:HE2	1.68	0.44
1:j:677:LYS:HB3	1:j:677:LYS:HE2	1.68	0.44
1:u:498:GLU:HG2	1:w:556:GLN:HG3	2.00	0.44
1:2:428:ASN:HA	1:2:429:PRO:HD3	1.75	0.44
1:4:498:GLU:HG2	1:6:556:GLN:HG3	2.00	0.44
1:B:724:LEU:HD23	1:B:724:LEU:HA	1.88	0.44
1:m:556:GLN:HG3	1:n:498:GLU:HG2	2.00	0.44
1:n:428:ASN:HA	1:n:429:PRO:HD3	1.75	0.44
1:p:556:GLN:HG3	1:q:498:GLU:HG2	2.00	0.44
1:u:428:ASN:HD22	1:u:430:LEU:H	1.64	0.44
1:1:556:GLN:HG3	1:2:498:GLU:HG2	2.00	0.44
1:2:643:VAL:HA	1:2:644:PRO:HD3	1.83	0.44
1:B:556:GLN:HG3	1:C:498:GLU:HG2	2.00	0.44
1:M:522:ALA:O	1:M:526:THR:HG22	2.17	0.44
1:S:428:ASN:HA	1:S:429:PRO:HD3	1.75	0.44
1:f:633:PRO:HA	1:f:634:PRO:HD3	1.73	0.44
1:8:428:ASN:HD22	1:8:430:LEU:H	1.64	0.44
1:J:522:ALA:O	1:J:526:THR:HG22	2.17	0.44
1:U:522:ALA:O	1:U:526:THR:HG22	2.17	0.44
1:b:532:GLN:H	1:b:532:GLN:HG2	1.54	0.44
1:h:522:ALA:O	1:h:526:THR:HG22	2.17	0.44
1:k:522:ALA:O	1:k:526:THR:HG22	2.17	0.44
1:s:522:ALA:O	1:s:526:THR:HG22	2.17	0.44
1:x:498:GLU:HG2	1:z:556:GLN:HG3	2.00	0.44
1:5:677:LYS:HB3	1:5:677:LYS:HE2	1.68	0.44
1:E:556:GLN:HG3	1:F:498:GLU:HG2	2.00	0.44
1:K:498:GLU:HG2	1:M:556:GLN:HG3	2.00	0.44
1:N:498:GLU:HG2	1:P:556:GLN:HG3	2.00	0.44
1:Q:522:ALA:O	1:Q:526:THR:HG22	2.17	0.44
1:V:677:LYS:HB3	1:V:677:LYS:HE2	1.68	0.44
1:X:428:ASN:HD22	1:X:430:LEU:H	1.65	0.44
1:a:428:ASN:HD22	1:a:430:LEU:H	1.64	0.44
1:c:677:LYS:HB3	1:c:677:LYS:HE2	1.68	0.44
1:j:611:ILE:HA	1:j:612:PRO:HD3	1.88	0.44
1:l:465:PHE:HA	1:l:466:PRO:HD3	1.85	0.44
1:s:428:ASN:HA	1:s:429:PRO:HD3	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:643:VAL:HA	1:s:644:PRO:HD3	1.83	0.44
1:4:677:LYS:HB3	1:4:677:LYS:HE2	1.68	0.44
1:5:428:ASN:HA	1:5:429:PRO:HD3	1.75	0.44
1:A:428:ASN:HD22	1:A:430:LEU:H	1.65	0.44
1:D:428:ASN:HD22	1:D:430:LEU:H	1.65	0.44
1:H:239:LEU:HA	1:H:240:PRO:HD3	1.88	0.44
1:I:465:PHE:HA	1:I:466:PRO:HD3	1.85	0.44
1:I:724:LEU:HD23	1:I:724:LEU:HA	1.88	0.44
1:J:428:ASN:HD22	1:J:430:LEU:H	1.65	0.44
1:Q:428:ASN:HA	1:Q:429:PRO:HD3	1.75	0.44
1:Q:556:GLN:HG3	1:R:498:GLU:HG2	2.00	0.44
1:X:522:ALA:O	1:X:526:THR:HG22	2.17	0.44
1:b:522:ALA:O	1:b:526:THR:HG22	2.17	0.44
1:f:428:ASN:HD22	1:f:430:LEU:H	1.64	0.44
1:y:428:ASN:HD22	1:y:430:LEU:H	1.65	0.44
1:4:679:ASN:HD22	1:4:679:ASN:HA	1.73	0.44
1:8:532:GLN:H	1:8:532:GLN:HG2	1.54	0.44
1:A:522:ALA:O	1:A:526:THR:HG22	2.17	0.44
1:A:633:PRO:HA	1:A:634:PRO:HD3	1.73	0.44
1:J:523:LEU:HA	1:J:526:THR:CG2	2.48	0.44
1:T:633:PRO:HA	1:T:634:PRO:HD3	1.73	0.44
1:V:428:ASN:HD22	1:V:430:LEU:H	1.64	0.44
1:V:523:LEU:HA	1:V:526:THR:CG2	2.48	0.44
1:a:523:LEU:HA	1:a:526:THR:CG2	2.48	0.44
1:b:428:ASN:HD22	1:b:430:LEU:H	1.65	0.44
1:f:523:LEU:HA	1:f:526:THR:CG2	2.48	0.44
1:j:523:LEU:HA	1:j:526:THR:CG2	2.48	0.44
1:k:428:ASN:HA	1:k:429:PRO:HD3	1.75	0.44
1:l:522:ALA:O	1:l:526:THR:HG22	2.17	0.44
1:r:523:LEU:HA	1:r:526:THR:CG2	2.48	0.44
1:w:428:ASN:HD22	1:w:430:LEU:H	1.65	0.44
1:z:724:LEU:HD23	1:z:724:LEU:HA	1.88	0.44
1:5:522:ALA:O	1:5:526:THR:HG22	2.17	0.44
1:8:381:GLU:H	1:8:381:GLU:HG3	1.66	0.44
1:8:523:LEU:HA	1:8:526:THR:CG2	2.48	0.44
1:D:677:LYS:HB3	1:D:677:LYS:HE2	1.68	0.44
1:G:643:VAL:HA	1:G:644:PRO:HD3	1.83	0.44
1:H:556:GLN:HG3	1:I:498:GLU:HG2	2.00	0.44
1:H:724:LEU:HD23	1:H:724:LEU:HA	1.88	0.44
1:M:532:GLN:H	1:M:532:GLN:HG2	1.54	0.44
1:R:428:ASN:HA	1:R:429:PRO:HD3	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:684:ASN:HA	1:U:685:PRO:HD3	1.88	0.44
1:W:498:GLU:HG2	1:Y:556:GLN:HG3	2.00	0.44
1:X:523:LEU:HA	1:X:526:THR:CG2	2.48	0.44
1:b:633:PRO:HA	1:b:634:PRO:HD3	1.73	0.44
1:p:428:ASN:HD22	1:p:430:LEU:H	1.65	0.44
1:v:611:ILE:HA	1:v:612:PRO:HD3	1.88	0.44
1:3:523:LEU:HA	1:3:526:THR:CG2	2.48	0.44
1:A:498:GLU:HG2	1:8:556:GLN:HG3	2.00	0.43
1:N:684:ASN:HA	1:N:685:PRO:HD3	1.88	0.43
1:X:633:PRO:HA	1:X:634:PRO:HD3	1.73	0.43
1:d:522:ALA:O	1:d:526:THR:HG22	2.17	0.43
1:f:498:GLU:HG2	1:h:556:GLN:HG3	2.00	0.43
1:l:523:LEU:HA	1:l:526:THR:CG2	2.48	0.43
1:r:677:LYS:HB3	1:r:677:LYS:HE2	1.68	0.43
1:3:465:PHE:HA	1:3:466:PRO:HD3	1.85	0.43
1:3:522:ALA:O	1:3:526:THR:HG22	2.17	0.43
1:5:465:PHE:HA	1:5:466:PRO:HD3	1.85	0.43
1:A:532:GLN:H	1:A:532:GLN:HG2	1.54	0.43
1:D:523:LEU:HA	1:D:526:THR:CG2	2.48	0.43
1:K:684:ASN:HA	1:K:685:PRO:HD3	1.88	0.43
1:Q:532:GLN:H	1:Q:532:GLN:HG2	1.54	0.43
1:U:523:LEU:HA	1:U:526:THR:CG2	2.48	0.43
1:U:556:GLN:HG3	1:V:498:GLU:HG2	2.00	0.43
1:a:381:GLU:H	1:a:381:GLU:HG3	1.66	0.43
1:a:556:GLN:HG3	1:b:498:GLU:HG2	2.00	0.43
1:g:633:PRO:HA	1:g:634:PRO:HD3	1.73	0.43
1:h:523:LEU:HA	1:h:526:THR:CG2	2.48	0.43
1:k:523:LEU:HA	1:k:526:THR:CG2	2.48	0.43
1:r:633:PRO:HA	1:r:634:PRO:HD3	1.74	0.43
1:s:523:LEU:HA	1:s:526:THR:CG2	2.48	0.43
1:w:633:PRO:HA	1:w:634:PRO:HD3	1.73	0.43
1:y:523:LEU:HA	1:y:526:THR:CG2	2.48	0.43
1:6:428:ASN:HD22	1:6:430:LEU:H	1.65	0.43
1:M:523:LEU:HA	1:M:526:THR:CG2	2.48	0.43
1:T:523:LEU:HA	1:T:526:THR:CG2	2.48	0.43
1:T:556:GLN:HG3	1:U:498:GLU:HG2	2.00	0.43
1:V:679:ASN:HD22	1:V:679:ASN:HA	1.73	0.43
1:e:428:ASN:HD22	1:e:430:LEU:H	1.65	0.43
1:f:679:ASN:HD22	1:f:679:ASN:HA	1.73	0.43
1:g:523:LEU:HA	1:g:526:THR:CG2	2.48	0.43
1:g:556:GLN:HG3	1:h:498:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:643:VAL:HA	1:k:644:PRO:HD3	1.83	0.43
1:o:532:GLN:H	1:o:532:GLN:HG2	1.54	0.43
1:w:523:LEU:HA	1:w:526:THR:CG2	2.48	0.43
1:5:523:LEU:HA	1:5:526:THR:CG2	2.48	0.43
1:A:523:LEU:HA	1:A:526:THR:CG2	2.48	0.43
1:E:523:LEU:HA	1:E:526:THR:CG2	2.48	0.43
1:F:465:PHE:HA	1:F:466:PRO:HD3	1.85	0.43
1:F:684:ASN:HA	1:F:685:PRO:HD3	1.88	0.43
1:M:428:ASN:HA	1:M:429:PRO:HD3	1.75	0.43
1:Q:523:LEU:HA	1:Q:526:THR:CG2	2.48	0.43
1:R:684:ASN:HA	1:R:685:PRO:HD3	1.88	0.43
1:W:465:PHE:HA	1:W:466:PRO:HD3	1.85	0.43
1:b:523:LEU:HA	1:b:526:THR:CG2	2.48	0.43
1:d:523:LEU:HA	1:d:526:THR:CG2	2.48	0.43
1:g:428:ASN:HD22	1:g:430:LEU:H	1.65	0.43
1:h:684:ASN:HA	1:h:685:PRO:HD3	1.88	0.43
1:n:523:LEU:HA	1:n:526:THR:CG2	2.48	0.43
1:p:523:LEU:HA	1:p:526:THR:CG2	2.48	0.43
1:s:724:LEU:HD23	1:s:724:LEU:HA	1.88	0.43
1:1:633:PRO:HA	1:1:634:PRO:HD3	1.73	0.43
1:P:523:LEU:HA	1:P:526:THR:CG2	2.48	0.43
1:T:428:ASN:HD22	1:T:430:LEU:H	1.65	0.43
1:d:465:PHE:HA	1:d:466:PRO:HD3	1.85	0.43
1:e:523:LEU:HA	1:e:526:THR:CG2	2.48	0.43
1:e:633:PRO:HA	1:e:634:PRO:HD3	1.73	0.43
1:x:381:GLU:H	1:x:381:GLU:HG3	1.66	0.43
1:y:677:LYS:HB3	1:y:677:LYS:HE2	1.68	0.43
1:4:556:GLN:HG3	1:5:498:GLU:HG2	2.00	0.43
1:6:523:LEU:HA	1:6:526:THR:CG2	2.48	0.43
1:H:498:GLU:HG2	1:J:556:GLN:HG3	2.00	0.43
1:N:523:LEU:HA	1:N:526:THR:CG2	2.48	0.43
1:O:643:VAL:HA	1:O:644:PRO:HD3	1.83	0.43
1:Y:724:LEU:HD23	1:Y:724:LEU:HA	1.88	0.43
1:Z:633:PRO:HA	1:Z:634:PRO:HD3	1.73	0.43
1:c:556:GLN:HG3	1:d:498:GLU:HG2	2.00	0.43
1:m:633:PRO:HA	1:m:634:PRO:HD3	1.73	0.43
1:o:556:GLN:HG3	1:p:498:GLU:HG2	2.00	0.43
1:o:611:ILE:HA	1:o:612:PRO:HD3	1.88	0.43
1:r:498:GLU:HG2	1:t:556:GLN:HG3	2.00	0.43
1:2:523:LEU:HA	1:2:526:THR:CG2	2.48	0.43
1:5:556:GLN:HG3	1:6:498:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:633:PRO:HA	1:6:634:PRO:HD3	1.73	0.43
1:7:523:LEU:HA	1:7:526:THR:CG2	2.48	0.43
1:O:523:LEU:HA	1:O:526:THR:CG2	2.48	0.43
1:Z:523:LEU:HA	1:Z:526:THR:CG2	2.48	0.43
1:d:556:GLN:HG3	1:e:498:GLU:HG2	2.00	0.43
1:i:556:GLN:HG3	1:j:498:GLU:HG2	2.00	0.43
1:i:684:ASN:HA	1:i:685:PRO:HD3	1.88	0.43
1:j:556:GLN:HG3	1:k:498:GLU:HG2	2.00	0.43
1:j:633:PRO:HA	1:j:634:PRO:HD3	1.74	0.43
1:m:523:LEU:HA	1:m:526:THR:CG2	2.48	0.43
1:r:556:GLN:HG3	1:s:498:GLU:HG2	2.00	0.43
1:u:381:GLU:H	1:u:381:GLU:HG3	1.66	0.43
1:1:523:LEU:HA	1:1:526:THR:CG2	2.48	0.43
1:D:381:GLU:H	1:D:381:GLU:HG3	1.66	0.43
1:F:523:LEU:HA	1:F:526:THR:CG2	2.48	0.43
1:G:523:LEU:HA	1:G:526:THR:CG2	2.48	0.43
1:L:556:GLN:HG3	1:M:498:GLU:HG2	2.00	0.43
1:N:556:GLN:HG3	1:O:498:GLU:HG2	2.00	0.43
1:Q:498:GLU:HG2	1:S:556:GLN:HG3	2.00	0.43
1:X:556:GLN:HG3	1:Y:498:GLU:HG2	2.00	0.43
1:Y:428:ASN:HA	1:Y:429:PRO:HD3	1.75	0.43
1:Z:643:VAL:HA	1:Z:644:PRO:HD3	1.83	0.43
1:h:633:PRO:HA	1:h:634:PRO:HD3	1.73	0.43
1:k:724:LEU:HD23	1:k:724:LEU:HA	1.88	0.43
1:l:498:GLU:HG2	1:n:556:GLN:HG3	2.00	0.43
1:v:532:GLN:H	1:v:532:GLN:HG2	1.54	0.43
1:v:556:GLN:HG3	1:w:498:GLU:HG2	2.00	0.43
1:2:556:GLN:HG3	1:3:498:GLU:HG2	2.00	0.43
1:2:684:ASN:HA	1:2:685:PRO:HD3	1.88	0.43
1:A:556:GLN:HG3	1:7:498:GLU:HG2	2.00	0.43
1:F:556:GLN:HG3	1:G:498:GLU:HG2	2.00	0.43
1:I:556:GLN:HG3	1:J:498:GLU:HG2	2.00	0.43
1:N:679:ASN:HD22	1:N:679:ASN:HA	1.73	0.43
1:P:633:PRO:HA	1:P:634:PRO:HD3	1.74	0.43
1:W:556:GLN:HG3	1:X:498:GLU:HG2	2.00	0.43
1:n:677:LYS:HB3	1:n:677:LYS:HE2	1.68	0.43
1:p:633:PRO:HA	1:p:634:PRO:HD3	1.73	0.43
1:C:556:GLN:HG3	1:D:498:GLU:HG2	2.00	0.43
1:L:523:LEU:HA	1:L:526:THR:CG2	2.48	0.43
1:Z:498:GLU:HG2	1:b:556:GLN:HG3	2.00	0.43
1:c:532:GLN:H	1:c:532:GLN:HG2	1.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:498:GLU:HG2	1:k:556:GLN:HG3	2.00	0.43
1:u:523:LEU:HA	1:u:526:THR:CG2	2.48	0.43
1:x:556:GLN:HG3	1:y:498:GLU:HG2	2.00	0.43
1:2:677:LYS:HB3	1:2:677:LYS:HE2	1.68	0.43
1:7:633:PRO:HA	1:7:634:PRO:HD3	1.73	0.43
1:I:239:LEU:HA	1:I:240:PRO:HD3	1.88	0.42
1:I:523:LEU:HA	1:I:526:THR:CG2	2.48	0.42
1:U:633:PRO:HA	1:U:634:PRO:HD3	1.73	0.42
1:h:356:PHE:HA	1:h:357:PRO:HD3	1.97	0.42
1:l:580:PRO:HB2	1:m:491:THR:HG21	2.01	0.42
1:q:381:GLU:H	1:q:381:GLU:HG3	1.66	0.42
1:s:556:GLN:HG3	1:t:498:GLU:HG2	2.00	0.42
1:w:684:ASN:HA	1:w:685:PRO:HD3	1.88	0.42
1:1:491:THR:HG21	1:3:580:PRO:HB2	2.01	0.42
1:4:523:LEU:HA	1:4:526:THR:CG2	2.48	0.42
1:4:532:GLN:H	1:4:532:GLN:HG2	1.54	0.42
1:R:532:GLN:H	1:R:532:GLN:HG2	1.54	0.42
1:S:523:LEU:HA	1:S:526:THR:CG2	2.48	0.42
1:W:523:LEU:HA	1:W:526:THR:CG2	2.48	0.42
1:Z:491:THR:HG21	1:b:580:PRO:HB2	2.02	0.42
1:c:523:LEU:HA	1:c:526:THR:CG2	2.48	0.42
1:i:523:LEU:HA	1:i:526:THR:CG2	2.48	0.42
1:i:633:PRO:HA	1:i:634:PRO:HD3	1.74	0.42
1:o:491:THR:HG21	1:q:580:PRO:HB2	2.02	0.42
1:p:684:ASN:HA	1:p:685:PRO:HD3	1.88	0.42
1:q:523:LEU:HA	1:q:526:THR:CG2	2.48	0.42
1:t:684:ASN:HA	1:t:685:PRO:HD3	1.88	0.42
1:u:580:PRO:HB2	1:v:491:THR:HG21	2.02	0.42
1:A:580:PRO:HB2	1:7:491:THR:HG21	2.02	0.42
1:C:580:PRO:HB2	1:D:491:THR:HG21	2.02	0.42
1:H:428:ASN:HA	1:H:429:PRO:HD3	1.75	0.42
1:H:491:THR:HG21	1:J:580:PRO:HB2	2.01	0.42
1:L:633:PRO:HA	1:L:634:PRO:HD3	1.73	0.42
1:M:381:GLU:H	1:M:381:GLU:HG3	1.66	0.42
1:O:556:GLN:HG3	1:P:498:GLU:HG2	2.00	0.42
1:Z:556:GLN:HG3	1:a:498:GLU:HG2	2.00	0.42
1:d:633:PRO:HA	1:d:634:PRO:HD3	1.73	0.42
1:g:420:SER:HB3	1:g:721:THR:HG23	2.02	0.42
1:p:239:LEU:HA	1:p:240:PRO:HD3	1.88	0.42
1:t:523:LEU:HA	1:t:526:THR:CG2	2.48	0.42
1:u:556:GLN:HG3	1:v:498:GLU:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:580:PRO:HB2	1:y:491:THR:HG21	2.02	0.42
1:z:523:LEU:HA	1:z:526:THR:CG2	2.48	0.42
1:3:684:ASN:HA	1:3:685:PRO:HD3	1.88	0.42
1:7:643:VAL:HA	1:7:644:PRO:HD3	1.83	0.42
1:B:498:GLU:HG2	1:D:556:GLN:HG3	2.00	0.42
1:B:523:LEU:HA	1:B:526:THR:CG2	2.48	0.42
1:B:580:PRO:HB2	1:C:491:THR:HG21	2.02	0.42
1:C:523:LEU:HA	1:C:526:THR:CG2	2.48	0.42
1:E:633:PRO:HA	1:E:634:PRO:HD3	1.74	0.42
1:F:679:ASN:HD22	1:F:679:ASN:HA	1.73	0.42
1:G:532:GLN:H	1:G:532:GLN:HG2	1.54	0.42
1:K:523:LEU:HA	1:K:526:THR:CG2	2.48	0.42
1:L:724:LEU:HD23	1:L:724:LEU:HA	1.89	0.42
1:R:523:LEU:HA	1:R:526:THR:CG2	2.48	0.42
1:T:420:SER:HB3	1:T:721:THR:HG23	2.02	0.42
1:U:356:PHE:HA	1:U:357:PRO:HD3	1.97	0.42
1:X:580:PRO:HB2	1:Y:491:THR:HG21	2.01	0.42
1:i:420:SER:HB3	1:i:721:THR:HG23	2.02	0.42
1:l:556:GLN:HG3	1:m:498:GLU:HG2	2.00	0.42
1:n:684:ASN:HA	1:n:685:PRO:HD3	1.88	0.42
1:o:523:LEU:HA	1:o:526:THR:CG2	2.48	0.42
1:q:684:ASN:HA	1:q:685:PRO:HD3	1.88	0.42
1:t:420:SER:HB3	1:t:721:THR:HG23	2.02	0.42
1:v:523:LEU:HA	1:v:526:THR:CG2	2.48	0.42
1:x:491:THR:HG21	1:z:580:PRO:HB2	2.02	0.42
1:x:523:LEU:HA	1:x:526:THR:CG2	2.48	0.42
1:G:633:PRO:HA	1:G:634:PRO:HD3	1.74	0.42
1:K:556:GLN:HG3	1:L:498:GLU:HG2	2.00	0.42
1:R:556:GLN:HG3	1:S:498:GLU:HG2	2.00	0.42
1:W:611:ILE:HA	1:W:612:PRO:HD3	1.88	0.42
1:Y:523:LEU:HA	1:Y:526:THR:CG2	2.48	0.42
1:c:491:THR:HG21	1:e:580:PRO:HB2	2.02	0.42
1:l:611:ILE:HA	1:l:612:PRO:HD3	1.88	0.42
1:o:498:GLU:HG2	1:q:556:GLN:HG3	2.00	0.42
1:o:633:PRO:HA	1:o:634:PRO:HD3	1.73	0.42
1:w:420:SER:HB3	1:w:721:THR:HG23	2.02	0.42
1:y:556:GLN:HG3	1:z:498:GLU:HG2	2.00	0.42
1:z:420:SER:HB3	1:z:721:THR:HG23	2.02	0.42
1:1:498:GLU:HG2	1:3:556:GLN:HG3	2.00	0.42
1:4:491:THR:HG21	1:6:580:PRO:HB2	2.02	0.42
1:5:633:PRO:HA	1:5:634:PRO:HD3	1.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:420:SER:HB3	1:6:721:THR:HG23	2.02	0.42
1:7:556:GLN:HG3	1:8:498:GLU:HG2	2.00	0.42
1:B:420:SER:HB3	1:B:721:THR:HG23	2.02	0.42
1:E:498:GLU:HG2	1:G:556:GLN:HG3	2.00	0.42
1:M:420:SER:HB3	1:M:721:THR:HG23	2.02	0.42
1:O:580:PRO:HB2	1:P:491:THR:HG21	2.01	0.42
1:Q:420:SER:HB3	1:Q:721:THR:HG23	2.02	0.42
1:S:633:PRO:HA	1:S:634:PRO:HD3	1.73	0.42
1:V:420:SER:HB3	1:V:721:THR:HG23	2.02	0.42
1:W:239:LEU:HA	1:W:240:PRO:HD3	1.88	0.42
1:e:420:SER:HB3	1:e:721:THR:HG23	2.02	0.42
1:m:523:LEU:HA	1:m:523:LEU:HD12	1.97	0.42
1:n:679:ASN:HD22	1:n:679:ASN:HA	1.73	0.42
1:p:420:SER:HB3	1:p:721:THR:HG23	2.02	0.42
1:r:523:LEU:HA	1:r:523:LEU:HD12	1.97	0.42
1:t:633:PRO:HA	1:t:634:PRO:HD3	1.74	0.42
1:w:356:PHE:HA	1:w:357:PRO:HD3	1.97	0.42
1:x:370:THR:HB	1:x:371:LEU:H	1.77	0.42
1:1:465:PHE:HA	1:1:466:PRO:HD3	1.85	0.42
1:C:370:THR:HB	1:C:371:LEU:H	1.77	0.42
1:F:353:LEU:HA	1:F:354:PRO:HD3	1.87	0.42
1:G:420:SER:HB3	1:G:721:THR:HG23	2.02	0.42
1:H:523:LEU:HA	1:H:526:THR:CG2	2.48	0.42
1:J:611:ILE:HA	1:J:612:PRO:HD3	1.88	0.42
1:K:532:GLN:H	1:K:532:GLN:HG2	1.54	0.42
1:O:532:GLN:H	1:O:532:GLN:HG2	1.54	0.42
1:S:724:LEU:HD23	1:S:724:LEU:HA	1.89	0.42
1:Z:580:PRO:HB2	1:a:491:THR:HG21	2.01	0.42
1:c:580:PRO:HB2	1:d:491:THR:HG21	2.01	0.42
1:f:420:SER:HB3	1:f:721:THR:HG23	2.02	0.42
1:j:523:LEU:HA	1:j:523:LEU:HD12	1.97	0.42
1:k:611:ILE:HA	1:k:612:PRO:HD3	1.88	0.42
1:p:228:ARG:HA	1:p:228:ARG:HD2	1.93	0.42
1:r:491:THR:HG21	1:t:580:PRO:HB2	2.01	0.42
1:s:679:ASN:HD22	1:s:679:ASN:HA	1.73	0.42
1:w:611:ILE:HA	1:w:612:PRO:HD3	1.88	0.42
1:1:523:LEU:HA	1:1:523:LEU:HD12	1.97	0.42
1:4:580:PRO:HB2	1:5:491:THR:HG21	2.01	0.42
1:7:580:PRO:HB2	1:8:491:THR:HG21	2.01	0.42
1:8:724:LEU:HD23	1:8:724:LEU:HA	1.88	0.42
1:E:491:THR:HG21	1:G:580:PRO:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:580:PRO:HB2	1:I:491:THR:HG21	2.01	0.42
1:L:580:PRO:HB2	1:M:491:THR:HG21	2.01	0.42
1:O:420:SER:HB3	1:O:721:THR:HG23	2.02	0.42
1:R:643:VAL:HA	1:R:644:PRO:HD3	1.83	0.42
1:U:580:PRO:HB2	1:V:491:THR:HG21	2.01	0.42
1:i:491:THR:HG21	1:k:580:PRO:HB2	2.01	0.42
1:i:580:PRO:HB2	1:j:491:THR:HG21	2.01	0.42
1:l:428:ASN:HA	1:l:429:PRO:HD3	1.75	0.42
1:l:684:ASN:HA	1:l:685:PRO:HD3	1.88	0.42
1:p:580:PRO:HB2	1:q:491:THR:HG21	2.01	0.42
1:r:420:SER:HB3	1:r:721:THR:HG23	2.02	0.42
1:u:491:THR:HG21	1:w:580:PRO:HB2	2.01	0.42
1:y:633:PRO:HA	1:y:634:PRO:HD3	1.73	0.42
1:z:611:ILE:HA	1:z:612:PRO:HD3	1.88	0.42
1:3:428:ASN:HA	1:3:429:PRO:HD3	1.75	0.42
1:4:684:ASN:HA	1:4:685:PRO:HD3	1.88	0.42
1:B:532:GLN:H	1:B:532:GLN:HG2	1.54	0.42
1:B:643:VAL:HA	1:B:644:PRO:HD3	1.83	0.42
1:F:428:ASN:HA	1:F:429:PRO:HD3	1.75	0.42
1:H:420:SER:HB3	1:H:721:THR:HG23	2.02	0.42
1:H:532:GLN:H	1:H:532:GLN:HG2	1.54	0.42
1:H:643:VAL:HA	1:H:644:PRO:HD3	1.83	0.42
1:I:611:ILE:HA	1:I:612:PRO:HD3	1.88	0.42
1:J:420:SER:HB3	1:J:721:THR:HG23	2.02	0.42
1:L:428:ASN:HA	1:L:429:PRO:HD3	1.75	0.42
1:M:633:PRO:HA	1:M:634:PRO:HD3	1.73	0.42
1:N:420:SER:HB3	1:N:721:THR:HG23	2.02	0.42
1:Q:381:GLU:H	1:Q:381:GLU:HG3	1.66	0.42
1:T:580:PRO:HB2	1:U:491:THR:HG21	2.02	0.42
1:W:491:THR:HG21	1:Y:580:PRO:HB2	2.01	0.42
1:X:420:SER:HB3	1:X:721:THR:HG23	2.02	0.42
1:X:611:ILE:HA	1:X:612:PRO:HD3	1.88	0.42
1:f:491:THR:HG21	1:h:580:PRO:HB2	2.01	0.42
1:g:580:PRO:HB2	1:h:491:THR:HG21	2.02	0.42
1:j:420:SER:HB3	1:j:721:THR:HG23	2.02	0.42
1:k:679:ASN:HD22	1:k:679:ASN:HA	1.73	0.42
1:n:420:SER:HB3	1:n:721:THR:HG23	2.02	0.42
1:p:356:PHE:HA	1:p:357:PRO:HD3	1.97	0.42
1:q:310:GLN:HG2	1:v:328:THR:HG21	1.93	0.42
1:s:580:PRO:HB2	1:t:491:THR:HG21	2.01	0.42
1:u:328:THR:HG21	1:1:310:GLN:HG2	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:370:THR:HB	1:u:371:LEU:H	1.77	0.42
1:w:228:ARG:HA	1:w:228:ARG:HD2	1.93	0.42
1:w:239:LEU:HA	1:w:240:PRO:HD3	1.88	0.42
1:3:611:ILE:HA	1:3:612:PRO:HD3	1.88	0.42
1:A:491:THR:HG21	1:8:580:PRO:HB2	2.02	0.42
1:N:353:LEU:HA	1:N:354:PRO:HD3	1.87	0.42
1:N:580:PRO:HB2	1:O:491:THR:HG21	2.01	0.42
1:O:633:PRO:HA	1:O:634:PRO:HD3	1.74	0.42
1:Q:491:THR:HG21	1:S:580:PRO:HB2	2.01	0.42
1:Y:420:SER:HB3	1:Y:721:THR:HG23	2.02	0.42
1:Y:532:GLN:H	1:Y:532:GLN:HG2	1.54	0.42
1:a:580:PRO:HB2	1:b:491:THR:HG21	2.02	0.42
1:m:310:GLN:HG2	1:q:328:THR:HG21	1.92	0.42
1:p:611:ILE:HA	1:p:612:PRO:HD3	1.88	0.42
1:u:684:ASN:HA	1:u:685:PRO:HD3	1.88	0.42
1:2:420:SER:HB3	1:2:721:THR:HG23	2.02	0.42
1:2:580:PRO:HB2	1:3:491:THR:HG21	2.01	0.42
1:4:381:GLU:H	1:4:381:GLU:HG3	1.66	0.42
1:B:370:THR:HB	1:B:371:LEU:H	1.77	0.41
1:F:420:SER:HB3	1:F:721:THR:HG23	2.02	0.41
1:F:580:PRO:HB2	1:G:491:THR:HG21	2.01	0.41
1:K:580:PRO:HB2	1:L:491:THR:HG21	2.02	0.41
1:L:381:GLU:H	1:L:381:GLU:HG3	1.66	0.41
1:R:724:LEU:HD23	1:R:724:LEU:HA	1.88	0.41
1:S:381:GLU:H	1:S:381:GLU:HG3	1.66	0.41
1:U:420:SER:HB3	1:U:721:THR:HG23	2.02	0.41
1:Y:643:VAL:HA	1:Y:644:PRO:HD3	1.83	0.41
1:Z:677:LYS:HB3	1:Z:677:LYS:HE2	1.68	0.41
1:a:724:LEU:HD23	1:a:724:LEU:HA	1.88	0.41
1:d:580:PRO:HB2	1:e:491:THR:HG21	2.02	0.41
1:l:491:THR:HG21	1:n:580:PRO:HB2	2.01	0.41
1:s:611:ILE:HA	1:s:612:PRO:HD3	1.88	0.41
1:v:633:PRO:HA	1:v:634:PRO:HD3	1.73	0.41
1:2:679:ASN:HD22	1:2:679:ASN:HA	1.73	0.41
1:3:228:ARG:HA	1:3:228:ARG:HD2	1.93	0.41
1:A:465:PHE:HA	1:A:466:PRO:HD3	1.85	0.41
1:B:515:LEU:HD12	1:B:515:LEU:HA	1.93	0.41
1:F:724:LEU:HD23	1:F:724:LEU:HA	1.88	0.41
1:G:356:PHE:HA	1:G:357:PRO:HD3	1.97	0.41
1:L:420:SER:HB3	1:L:721:THR:HG23	2.02	0.41
1:R:580:PRO:HB2	1:S:491:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:381:GLU:H	1:c:381:GLU:HG3	1.66	0.41
1:c:684:ASN:HA	1:c:685:PRO:HD3	1.88	0.41
1:p:381:GLU:H	1:p:381:GLU:HG3	1.66	0.41
1:t:353:LEU:HA	1:t:354:PRO:HD3	1.87	0.41
1:t:532:GLN:H	1:t:532:GLN:HG2	1.54	0.41
1:x:420:SER:HB3	1:x:721:THR:HG23	2.02	0.41
1:y:228:ARG:HA	1:y:228:ARG:HD2	1.93	0.41
1:5:580:PRO:HB2	1:6:491:THR:HG21	2.02	0.41
1:7:677:LYS:HB3	1:7:677:LYS:HE2	1.68	0.41
1:A:418:ALA:HA	1:A:419:PRO:HD3	1.94	0.41
1:C:420:SER:HB3	1:C:721:THR:HG23	2.02	0.41
1:K:505:PRO:CD	1:M:460:THR:O	2.69	0.41
1:N:724:LEU:HD23	1:N:724:LEU:HA	1.88	0.41
1:Q:460:THR:O	1:R:505:PRO:CD	2.69	0.41
1:S:420:SER:HB3	1:S:721:THR:HG23	2.02	0.41
1:T:239:LEU:HA	1:T:240:PRO:HD3	1.88	0.41
1:a:420:SER:HB3	1:a:721:THR:HG23	2.02	0.41
1:h:420:SER:HB3	1:h:721:THR:HG23	2.02	0.41
1:j:580:PRO:HB2	1:k:491:THR:HG21	2.01	0.41
1:l:228:ARG:HA	1:l:228:ARG:HD2	1.93	0.41
1:m:465:PHE:HA	1:m:466:PRO:HD3	1.85	0.41
1:m:580:PRO:HB2	1:n:491:THR:HG21	2.01	0.41
1:q:370:THR:HB	1:q:371:LEU:H	1.77	0.41
1:v:598:GLU:H	1:v:598:GLU:HG2	1.79	0.41
1:z:370:THR:HB	1:z:371:LEU:H	1.77	0.41
1:z:677:LYS:HB3	1:z:677:LYS:HE2	1.68	0.41
1:1:580:PRO:HB2	1:2:491:THR:HG21	2.01	0.41
1:B:611:ILE:HA	1:B:612:PRO:HD3	1.88	0.41
1:H:460:THR:O	1:I:505:PRO:CD	2.69	0.41
1:H:505:PRO:CD	1:J:460:THR:O	2.69	0.41
1:K:643:VAL:HA	1:K:644:PRO:HD3	1.83	0.41
1:L:460:THR:O	1:M:505:PRO:CD	2.69	0.41
1:Q:505:PRO:CD	1:S:460:THR:O	2.69	0.41
1:Q:633:PRO:HA	1:Q:634:PRO:HD3	1.73	0.41
1:T:491:THR:HG21	1:V:580:PRO:HB2	2.02	0.41
1:V:418:ALA:HA	1:V:419:PRO:HD3	1.93	0.41
1:W:460:THR:O	1:X:505:PRO:CD	2.69	0.41
1:f:418:ALA:HA	1:f:419:PRO:HD3	1.93	0.41
1:i:353:LEU:HA	1:i:354:PRO:HD3	1.87	0.41
1:i:460:THR:O	1:j:505:PRO:CD	2.69	0.41
1:i:505:PRO:CD	1:k:460:THR:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:532:GLN:H	1:i:532:GLN:HG2	1.54	0.41
1:m:420:SER:HB3	1:m:721:THR:HG23	2.02	0.41
1:p:679:ASN:HD22	1:p:679:ASN:HA	1.73	0.41
1:q:420:SER:HB3	1:q:721:THR:HG23	2.02	0.41
1:r:580:PRO:HB2	1:s:491:THR:HG21	2.01	0.41
1:s:460:THR:O	1:t:505:PRO:CD	2.69	0.41
1:w:381:GLU:H	1:w:381:GLU:HG3	1.66	0.41
1:z:532:GLN:H	1:z:532:GLN:HG2	1.54	0.41
1:1:420:SER:HB3	1:1:721:THR:HG23	2.02	0.41
1:8:420:SER:HB3	1:8:721:THR:HG23	2.02	0.41
1:A:523:LEU:HA	1:A:523:LEU:HD12	1.97	0.41
1:D:633:PRO:HA	1:D:634:PRO:HD3	1.73	0.41
1:G:310:GLN:HG2	1:L:328:THR:HG21	1.93	0.41
1:I:460:THR:O	1:J:505:PRO:CD	2.69	0.41
1:M:353:LEU:HA	1:M:354:PRO:HD3	1.87	0.41
1:M:556:GLN:HG2	1:M:557:PRO:HD3	2.03	0.41
1:N:428:ASN:HA	1:N:429:PRO:HD3	1.75	0.41
1:Q:556:GLN:HG2	1:Q:557:PRO:HD3	2.03	0.41
1:W:505:PRO:CD	1:Y:460:THR:O	2.69	0.41
1:W:556:GLN:HG2	1:W:557:PRO:HD3	2.03	0.41
1:X:460:THR:O	1:Y:505:PRO:CD	2.69	0.41
1:X:556:GLN:HG2	1:X:557:PRO:HD3	2.03	0.41
1:a:611:ILE:HA	1:a:612:PRO:HD3	1.88	0.41
1:a:677:LYS:HB3	1:a:677:LYS:HE2	1.68	0.41
1:b:523:LEU:HA	1:b:523:LEU:HD12	1.97	0.41
1:f:580:PRO:HB2	1:g:491:THR:HG21	2.02	0.41
1:h:428:ASN:HA	1:h:429:PRO:HD3	1.75	0.41
1:o:428:ASN:HA	1:o:429:PRO:HD3	1.75	0.41
1:r:505:PRO:CD	1:t:460:THR:O	2.69	0.41
1:u:420:SER:HB3	1:u:721:THR:HG23	2.02	0.41
1:v:428:ASN:HA	1:v:429:PRO:HD3	1.75	0.41
1:z:643:VAL:HA	1:z:644:PRO:HD3	1.83	0.41
1:4:420:SER:HB3	1:4:721:THR:HG23	2.02	0.41
1:B:465:PHE:HA	1:B:466:PRO:HD3	1.85	0.41
1:I:420:SER:HB3	1:I:721:THR:HG23	2.02	0.41
1:I:556:GLN:HG2	1:I:557:PRO:HD3	2.03	0.41
1:I:643:VAL:HA	1:I:644:PRO:HD3	1.83	0.41
1:J:556:GLN:HG2	1:J:557:PRO:HD3	2.03	0.41
1:O:310:GLN:HG2	1:S:328:THR:HG21	1.93	0.41
1:O:356:PHE:HA	1:O:357:PRO:HD3	1.97	0.41
1:S:556:GLN:HG2	1:S:557:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:465:PHE:HA	1:V:466:PRO:HD3	1.85	0.41
1:b:418:ALA:HA	1:b:419:PRO:HD3	1.94	0.41
1:b:611:ILE:HA	1:b:612:PRO:HD3	1.88	0.41
1:c:420:SER:HB3	1:c:721:THR:HG23	2.02	0.41
1:f:460:THR:O	1:g:505:PRO:CD	2.69	0.41
1:n:353:LEU:HA	1:n:354:PRO:HD3	1.87	0.41
1:o:598:GLU:H	1:o:598:GLU:HG2	1.79	0.41
1:p:556:GLN:HG2	1:p:557:PRO:HD3	2.03	0.41
1:t:556:GLN:HG2	1:t:557:PRO:HD3	2.03	0.41
1:t:677:LYS:HB3	1:t:677:LYS:HE2	1.68	0.41
1:u:724:LEU:HD23	1:u:724:LEU:HA	1.88	0.41
1:w:556:GLN:HG2	1:w:557:PRO:HD3	2.03	0.41
1:A:239:LEU:HA	1:A:240:PRO:HD3	1.88	0.41
1:B:505:PRO:CD	1:D:460:THR:O	2.69	0.41
1:C:679:ASN:HD22	1:C:679:ASN:HA	1.73	0.41
1:D:228:ARG:HA	1:D:228:ARG:HD2	1.93	0.41
1:F:532:GLN:H	1:F:532:GLN:HG2	1.54	0.41
1:H:228:ARG:HA	1:H:228:ARG:HD2	1.93	0.41
1:K:677:LYS:HB3	1:K:677:LYS:HE2	1.68	0.41
1:K:724:LEU:HD23	1:K:724:LEU:HA	1.88	0.41
1:L:556:GLN:HG2	1:L:557:PRO:HD3	2.03	0.41
1:Q:353:LEU:HA	1:Q:354:PRO:HD3	1.87	0.41
1:T:460:THR:O	1:U:505:PRO:CD	2.69	0.41
1:T:505:PRO:CD	1:V:460:THR:O	2.69	0.41
1:W:420:SER:HB3	1:W:721:THR:HG23	2.02	0.41
1:X:228:ARG:HA	1:X:228:ARG:HD2	1.93	0.41
1:d:420:SER:HB3	1:d:721:THR:HG23	2.02	0.41
1:e:643:VAL:HA	1:e:644:PRO:HD3	1.83	0.41
1:g:556:GLN:HG2	1:g:557:PRO:HD3	2.03	0.41
1:i:556:GLN:HG2	1:i:557:PRO:HD3	2.03	0.41
1:k:420:SER:HB3	1:k:721:THR:HG23	2.02	0.41
1:l:420:SER:HB3	1:l:721:THR:HG23	2.02	0.41
1:o:460:THR:O	1:p:505:PRO:CD	2.69	0.41
1:o:505:PRO:CD	1:q:460:THR:O	2.69	0.41
1:o:643:VAL:HA	1:o:644:PRO:HD3	1.83	0.41
1:p:460:THR:O	1:q:505:PRO:CD	2.69	0.41
1:q:556:GLN:HG2	1:q:557:PRO:HD3	2.03	0.41
1:q:724:LEU:HD23	1:q:724:LEU:HA	1.88	0.41
1:s:381:GLU:H	1:s:381:GLU:HG3	1.66	0.41
1:s:420:SER:HB3	1:s:721:THR:HG23	2.02	0.41
1:u:505:PRO:CD	1:w:460:THR:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:532:GLN:H	1:u:532:GLN:HG2	1.54	0.41
1:u:556:GLN:HG2	1:u:557:PRO:HD3	2.03	0.41
1:v:460:THR:O	1:w:505:PRO:CD	2.69	0.41
1:v:580:PRO:HB2	1:w:491:THR:HG21	2.02	0.41
1:w:310:GLN:HG2	1:2:328:THR:HG21	1.92	0.41
1:w:465:PHE:HA	1:w:466:PRO:HD3	1.85	0.41
1:y:460:THR:O	1:z:505:PRO:CD	2.69	0.41
1:y:580:PRO:HB2	1:z:491:THR:HG21	2.01	0.41
1:2:460:THR:O	1:3:505:PRO:CD	2.69	0.41
1:7:420:SER:HB3	1:7:721:THR:HG23	2.02	0.41
1:A:228:ARG:HA	1:A:228:ARG:HD2	1.93	0.41
1:A:611:ILE:HA	1:A:612:PRO:HD3	1.88	0.41
1:B:418:ALA:HA	1:B:419:PRO:HD3	1.93	0.41
1:B:491:THR:HG21	1:D:580:PRO:HB2	2.01	0.41
1:C:677:LYS:HB3	1:C:677:LYS:HE2	1.68	0.41
1:E:239:LEU:HA	1:E:240:PRO:HD3	1.88	0.41
1:E:420:SER:HB3	1:E:721:THR:HG23	2.02	0.41
1:E:460:THR:O	1:F:505:PRO:CD	2.69	0.41
1:E:679:ASN:HD22	1:E:679:ASN:HA	1.73	0.41
1:K:491:THR:HG21	1:M:580:PRO:HB2	2.02	0.41
1:N:505:PRO:CD	1:P:460:THR:O	2.69	0.41
1:P:420:SER:HB3	1:P:721:THR:HG23	2.02	0.41
1:Q:580:PRO:HB2	1:R:491:THR:HG21	2.02	0.41
1:R:679:ASN:HD22	1:R:679:ASN:HA	1.73	0.41
1:T:556:GLN:HG2	1:T:557:PRO:HD3	2.03	0.41
1:U:532:GLN:H	1:U:532:GLN:HG2	1.54	0.41
1:b:228:ARG:HA	1:b:228:ARG:HD2	1.93	0.41
1:b:465:PHE:HA	1:b:466:PRO:HD3	1.85	0.41
1:c:460:THR:O	1:d:505:PRO:CD	2.69	0.41
1:d:460:THR:O	1:e:505:PRO:CD	2.69	0.41
1:g:460:THR:O	1:h:505:PRO:CD	2.69	0.41
1:j:724:LEU:HD23	1:j:724:LEU:HA	1.88	0.41
1:k:381:GLU:H	1:k:381:GLU:HG3	1.66	0.41
1:l:505:PRO:CD	1:n:460:THR:O	2.69	0.41
1:n:465:PHE:HA	1:n:466:PRO:HD3	1.85	0.41
1:n:556:GLN:HG2	1:n:557:PRO:HD3	2.03	0.41
1:o:580:PRO:HB2	1:p:491:THR:HG21	2.02	0.41
1:q:532:GLN:H	1:q:532:GLN:HG2	1.54	0.41
1:r:556:GLN:HG2	1:r:557:PRO:HD3	2.03	0.41
1:u:460:THR:O	1:v:505:PRO:CD	2.69	0.41
1:z:418:ALA:HA	1:z:419:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:556:GLN:HG2	1:2:557:PRO:HD3	2.03	0.41
1:3:420:SER:HB3	1:3:721:THR:HG23	2.02	0.41
1:5:420:SER:HB3	1:5:721:THR:HG23	2.02	0.41
1:8:611:ILE:HA	1:8:612:PRO:HD3	1.88	0.41
1:A:460:THR:O	1:7:505:PRO:CD	2.69	0.41
1:A:601:VAL:HG23	1:A:717:THR:CG2	2.51	0.41
1:B:460:THR:O	1:C:505:PRO:CD	2.69	0.41
1:B:677:LYS:HB3	1:B:677:LYS:HE2	1.68	0.41
1:D:357:PRO:N	1:D:358:PRO:HD2	2.36	0.41
1:F:357:PRO:N	1:F:358:PRO:HD2	2.36	0.41
1:G:428:ASN:HA	1:G:429:PRO:HD3	1.75	0.41
1:H:356:PHE:HA	1:H:357:PRO:HD3	1.97	0.41
1:H:601:VAL:HG23	1:H:717:THR:CG2	2.51	0.41
1:J:228:ARG:HA	1:J:228:ARG:HD2	1.93	0.41
1:K:465:PHE:HA	1:K:466:PRO:HD3	1.85	0.41
1:M:357:PRO:N	1:M:358:PRO:HD2	2.36	0.41
1:N:357:PRO:N	1:N:358:PRO:HD2	2.36	0.41
1:N:598:GLU:H	1:N:598:GLU:HG2	1.79	0.41
1:O:428:ASN:HA	1:O:429:PRO:HD3	1.75	0.41
1:Q:357:PRO:N	1:Q:358:PRO:HD2	2.36	0.41
1:R:601:VAL:HG23	1:R:717:THR:CG2	2.51	0.41
1:U:357:PRO:N	1:U:358:PRO:HD2	2.36	0.41
1:Y:601:VAL:HG23	1:Y:717:THR:CG2	2.51	0.41
1:Z:420:SER:HB3	1:Z:721:THR:HG23	2.02	0.41
1:Z:460:THR:O	1:a:505:PRO:CD	2.69	0.41
1:Z:505:PRO:CD	1:b:460:THR:O	2.69	0.41
1:Z:679:ASN:HD22	1:Z:679:ASN:HA	1.73	0.41
1:Z:724:LEU:HD23	1:Z:724:LEU:HA	1.89	0.41
1:a:601:VAL:HG23	1:a:717:THR:CG2	2.51	0.41
1:b:601:VAL:HG23	1:b:717:THR:CG2	2.51	0.41
1:g:239:LEU:HA	1:g:240:PRO:HD3	1.88	0.41
1:g:356:PHE:HA	1:g:357:PRO:HD3	1.97	0.41
1:h:357:PRO:N	1:h:358:PRO:HD2	2.36	0.41
1:j:357:PRO:N	1:j:358:PRO:HD2	2.36	0.41
1:j:556:GLN:HG2	1:j:557:PRO:HD3	2.03	0.41
1:l:357:PRO:N	1:l:358:PRO:HD2	2.36	0.41
1:l:556:GLN:HG2	1:l:557:PRO:HD3	2.03	0.41
1:m:357:PRO:N	1:m:358:PRO:HD2	2.36	0.41
1:m:556:GLN:HG2	1:m:557:PRO:HD3	2.03	0.41
1:n:328:THR:HG21	1:p:310:GLN:HG2	1.92	0.41
1:o:420:SER:HB3	1:o:721:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:357:PRO:N	1:p:358:PRO:HD2	2.36	0.41
1:r:353:LEU:HA	1:r:354:PRO:HD3	1.87	0.41
1:r:357:PRO:N	1:r:358:PRO:HD2	2.36	0.41
1:r:724:LEU:HD23	1:r:724:LEU:HA	1.88	0.41
1:t:428:ASN:HA	1:t:429:PRO:HD3	1.75	0.41
1:w:357:PRO:N	1:w:358:PRO:HD2	2.36	0.41
1:w:679:ASN:HD22	1:w:679:ASN:HA	1.73	0.41
1:x:418:ALA:HA	1:x:419:PRO:HD3	1.94	0.41
1:x:724:LEU:HD23	1:x:724:LEU:HA	1.88	0.41
1:y:239:LEU:HA	1:y:240:PRO:HD3	1.88	0.41
1:y:357:PRO:N	1:y:358:PRO:HD2	2.36	0.41
1:y:601:VAL:HG23	1:y:717:THR:CG2	2.51	0.41
1:1:357:PRO:N	1:1:358:PRO:HD2	2.36	0.41
1:1:460:THR:O	1:2:505:PRO:CD	2.69	0.41
1:1:556:GLN:HG2	1:1:557:PRO:HD3	2.03	0.41
1:3:532:GLN:H	1:3:532:GLN:HG2	1.54	0.41
1:3:556:GLN:HG2	1:3:557:PRO:HD3	2.03	0.41
1:4:460:THR:O	1:5:505:PRO:CD	2.69	0.41
1:5:460:THR:O	1:6:505:PRO:CD	2.69	0.41
1:6:428:ASN:HA	1:6:429:PRO:HD3	1.75	0.41
1:7:460:THR:O	1:8:505:PRO:CD	2.69	0.41
1:8:601:VAL:HG23	1:8:717:THR:CG2	2.51	0.41
1:8:677:LYS:HB3	1:8:677:LYS:HE2	1.68	0.41
1:A:420:SER:HB3	1:A:721:THR:HG23	2.02	0.41
1:D:239:LEU:HA	1:D:240:PRO:HD3	1.88	0.41
1:D:601:VAL:HG23	1:D:717:THR:CG2	2.51	0.41
1:E:677:LYS:HB3	1:E:677:LYS:HE2	1.68	0.41
1:I:357:PRO:N	1:I:358:PRO:HD2	2.36	0.41
1:K:357:PRO:N	1:K:358:PRO:HD2	2.36	0.41
1:K:420:SER:HB3	1:K:721:THR:HG23	2.02	0.41
1:K:601:VAL:HG23	1:K:717:THR:CG2	2.51	0.41
1:N:532:GLN:H	1:N:532:GLN:HG2	1.54	0.41
1:R:357:PRO:N	1:R:358:PRO:HD2	2.36	0.41
1:R:420:SER:HB3	1:R:721:THR:HG23	2.02	0.41
1:T:356:PHE:HA	1:T:357:PRO:HD3	1.97	0.41
1:W:601:VAL:HG23	1:W:717:THR:CG2	2.51	0.41
1:Y:228:ARG:HA	1:Y:228:ARG:HD2	1.93	0.41
1:d:353:LEU:HA	1:d:354:PRO:HD3	1.87	0.41
1:e:679:ASN:HD22	1:e:679:ASN:HA	1.73	0.41
1:g:611:ILE:HA	1:g:612:PRO:HD3	1.88	0.41
1:i:357:PRO:N	1:i:358:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:460:THR:O	1:k:505:PRO:CD	2.69	0.41
1:m:460:THR:O	1:n:505:PRO:CD	2.69	0.41
1:n:228:ARG:HA	1:n:228:ARG:HD2	1.93	0.41
1:q:611:ILE:HA	1:q:612:PRO:HD3	1.88	0.41
1:r:598:GLU:H	1:r:598:GLU:HG2	1.79	0.41
1:t:357:PRO:N	1:t:358:PRO:HD2	2.36	0.41
1:v:420:SER:HB3	1:v:721:THR:HG23	2.02	0.41
1:x:505:PRO:CD	1:z:460:THR:O	2.69	0.41
1:3:357:PRO:N	1:3:358:PRO:HD2	2.36	0.41
1:7:724:LEU:HD23	1:7:724:LEU:HA	1.89	0.41
1:D:420:SER:HB3	1:D:721:THR:HG23	2.02	0.40
1:E:357:PRO:N	1:E:358:PRO:HD2	2.36	0.40
1:E:505:PRO:CD	1:G:460:THR:O	2.69	0.40
1:F:598:GLU:H	1:F:598:GLU:HG2	1.79	0.40
1:I:601:VAL:HG23	1:I:717:THR:CG2	2.51	0.40
1:N:491:THR:HG21	1:P:580:PRO:HB2	2.01	0.40
1:P:357:PRO:N	1:P:358:PRO:HD2	2.36	0.40
1:P:679:ASN:HD22	1:P:679:ASN:HA	1.73	0.40
1:R:460:THR:O	1:S:505:PRO:CD	2.69	0.40
1:T:598:GLU:H	1:T:598:GLU:HG2	1.79	0.40
1:T:611:ILE:HA	1:T:612:PRO:HD3	1.88	0.40
1:U:428:ASN:HA	1:U:429:PRO:HD3	1.75	0.40
1:W:357:PRO:N	1:W:358:PRO:HD2	2.36	0.40
1:W:643:VAL:HA	1:W:644:PRO:HD3	1.83	0.40
1:b:239:LEU:HA	1:b:240:PRO:HD3	1.88	0.40
1:b:357:PRO:N	1:b:358:PRO:HD2	2.36	0.40
1:c:505:PRO:CD	1:e:460:THR:O	2.69	0.40
1:d:556:GLN:HG2	1:d:557:PRO:HD3	2.03	0.40
1:f:357:PRO:N	1:f:358:PRO:HD2	2.36	0.40
1:h:532:GLN:H	1:h:532:GLN:HG2	1.54	0.40
1:i:428:ASN:HA	1:i:429:PRO:HD3	1.75	0.40
1:j:353:LEU:HA	1:j:354:PRO:HD3	1.87	0.40
1:l:532:GLN:H	1:l:532:GLN:HG2	1.54	0.40
1:p:465:PHE:HA	1:p:466:PRO:HD3	1.85	0.40
1:r:460:THR:O	1:s:505:PRO:CD	2.69	0.40
1:s:556:GLN:HG2	1:s:557:PRO:HD3	2.03	0.40
1:x:679:ASN:HD22	1:x:679:ASN:HA	1.73	0.40
1:z:465:PHE:HA	1:z:466:PRO:HD3	1.85	0.40
1:2:465:PHE:HA	1:2:466:PRO:HD3	1.85	0.40
1:5:556:GLN:HG2	1:5:557:PRO:HD3	2.03	0.40
1:A:357:PRO:N	1:A:358:PRO:HD2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:PRO:CD	1:8:460:THR:O	2.69	0.40
1:C:328:THR:HG21	1:f:310:GLN:HG2	1.93	0.40
1:C:357:PRO:N	1:C:358:PRO:HD2	2.36	0.40
1:C:460:THR:O	1:D:505:PRO:CD	2.69	0.40
1:C:724:LEU:HD23	1:C:724:LEU:HA	1.88	0.40
1:F:575:SER:CB	1:F:578:THR:HG23	2.52	0.40
1:H:418:ALA:HA	1:H:419:PRO:HD3	1.93	0.40
1:I:580:PRO:HB2	1:J:491:THR:HG21	2.01	0.40
1:J:428:ASN:HA	1:J:429:PRO:HD3	1.75	0.40
1:J:724:LEU:HD23	1:J:724:LEU:HA	1.88	0.40
1:K:679:ASN:HD22	1:K:679:ASN:HA	1.73	0.40
1:N:460:THR:O	1:O:505:PRO:CD	2.69	0.40
1:O:460:THR:O	1:P:505:PRO:CD	2.69	0.40
1:U:460:THR:O	1:V:505:PRO:CD	2.69	0.40
1:V:310:GLN:HG2	1:x:328:THR:HG21	1.93	0.40
1:V:357:PRO:N	1:V:358:PRO:HD2	2.36	0.40
1:W:580:PRO:HB2	1:X:491:THR:HG21	2.01	0.40
1:Y:356:PHE:HA	1:Y:357:PRO:HD3	1.97	0.40
1:Y:611:ILE:HA	1:Y:612:PRO:HD3	1.88	0.40
1:a:261:ASN:HD22	1:a:261:ASN:HA	1.80	0.40
1:b:420:SER:HB3	1:b:721:THR:HG23	2.02	0.40
1:f:465:PHE:HA	1:f:466:PRO:HD3	1.85	0.40
1:g:357:PRO:N	1:g:358:PRO:HD2	2.36	0.40
1:g:598:GLU:H	1:g:598:GLU:HG2	1.79	0.40
1:h:370:THR:HB	1:h:371:LEU:H	1.77	0.40
1:i:601:VAL:HG23	1:i:717:THR:CG2	2.51	0.40
1:i:643:VAL:HA	1:i:644:PRO:HD3	1.83	0.40
1:k:556:GLN:HG2	1:k:557:PRO:HD3	2.03	0.40
1:k:575:SER:CB	1:k:578:THR:HG23	2.52	0.40
1:l:677:LYS:HB3	1:l:677:LYS:HE2	1.68	0.40
1:m:532:GLN:H	1:m:532:GLN:HG2	1.54	0.40
1:o:724:LEU:HD23	1:o:724:LEU:HA	1.88	0.40
1:q:357:PRO:N	1:q:358:PRO:HD2	2.36	0.40
1:u:357:PRO:N	1:u:358:PRO:HD2	2.36	0.40
1:v:643:VAL:HA	1:v:644:PRO:HD3	1.83	0.40
1:x:357:PRO:N	1:x:358:PRO:HD2	2.36	0.40
1:x:460:THR:O	1:y:505:PRO:CD	2.69	0.40
1:4:505:PRO:CD	1:6:460:THR:O	2.69	0.40
1:5:598:GLU:H	1:5:598:GLU:HG2	1.79	0.40
1:6:643:VAL:HA	1:6:644:PRO:HD3	1.83	0.40
1:6:679:ASN:HD22	1:6:679:ASN:HA	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:598:GLU:H	1:D:598:GLU:HG2	1.79	0.40
1:E:580:PRO:HB2	1:F:491:THR:HG21	2.01	0.40
1:H:684:ASN:HA	1:H:685:PRO:HD3	1.88	0.40
1:J:601:VAL:HG23	1:J:717:THR:CG2	2.51	0.40
1:K:460:THR:O	1:L:505:PRO:CD	2.69	0.40
1:P:239:LEU:HA	1:P:240:PRO:HD3	1.88	0.40
1:Q:601:VAL:HG23	1:Q:717:THR:CG2	2.51	0.40
1:T:357:PRO:N	1:T:358:PRO:HD2	2.36	0.40
1:V:428:ASN:HA	1:V:429:PRO:HD3	1.75	0.40
1:W:353:LEU:HA	1:W:354:PRO:HD3	1.87	0.40
1:X:724:LEU:HD23	1:X:724:LEU:HA	1.88	0.40
1:a:460:THR:O	1:b:505:PRO:CD	2.69	0.40
1:e:556:GLN:HG2	1:e:557:PRO:HD3	2.03	0.40
1:f:505:PRO:CD	1:h:460:THR:O	2.69	0.40
1:g:601:VAL:HG23	1:g:717:THR:CG2	2.51	0.40
1:i:677:LYS:HB3	1:i:677:LYS:HE2	1.68	0.40
1:k:601:VAL:HG23	1:k:717:THR:CG2	2.51	0.40
1:n:643:VAL:HA	1:n:644:PRO:HD3	1.83	0.40
1:o:601:VAL:HG23	1:o:717:THR:CG2	2.51	0.40
1:s:575:SER:CB	1:s:578:THR:HG23	2.52	0.40
1:s:601:VAL:HG23	1:s:717:THR:CG2	2.51	0.40
1:t:601:VAL:HG23	1:t:717:THR:CG2	2.51	0.40
1:t:679:ASN:HD22	1:t:679:ASN:HA	1.73	0.40
1:u:611:ILE:HA	1:u:612:PRO:HD3	1.88	0.40
1:x:677:LYS:HB3	1:x:677:LYS:HE2	1.68	0.40
1:y:420:SER:HB3	1:y:721:THR:HG23	2.02	0.40
1:1:505:PRO:CD	1:3:460:THR:O	2.69	0.40
1:2:601:VAL:HG23	1:2:717:THR:CG2	2.51	0.40
1:7:679:ASN:HD22	1:7:679:ASN:HA	1.73	0.40
1:C:418:ALA:HA	1:C:419:PRO:HD3	1.94	0.40
1:F:460:THR:O	1:G:505:PRO:CD	2.69	0.40
1:H:611:ILE:HA	1:H:612:PRO:HD3	1.88	0.40
1:I:523:LEU:HA	1:I:523:LEU:HD12	1.97	0.40
1:I:598:GLU:H	1:I:598:GLU:HG2	1.79	0.40
1:M:356:PHE:HA	1:M:357:PRO:HD3	1.97	0.40
1:N:556:GLN:HG2	1:N:557:PRO:HD3	2.03	0.40
1:N:653:VAL:HA	1:N:654:PRO:HD3	2.00	0.40
1:P:677:LYS:HB3	1:P:677:LYS:HE2	1.68	0.40
1:R:465:PHE:HA	1:R:466:PRO:HD3	1.85	0.40
1:R:556:GLN:HG2	1:R:557:PRO:HD3	2.03	0.40
1:R:677:LYS:HB3	1:R:677:LYS:HE2	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:601:VAL:HG23	1:T:717:THR:CG2	2.51	0.40
1:V:724:LEU:HD23	1:V:724:LEU:HA	1.88	0.40
1:W:523:LEU:HA	1:W:523:LEU:HD12	1.97	0.40
1:Y:465:PHE:HA	1:Y:466:PRO:HD3	1.85	0.40
1:Z:601:VAL:HG23	1:Z:717:THR:CG2	2.51	0.40
1:l:460:THR:O	1:m:505:PRO:CD	2.69	0.40
1:n:601:VAL:HG23	1:n:717:THR:CG2	2.51	0.40
1:v:601:VAL:HG23	1:v:717:THR:CG2	2.51	0.40
1:z:239:LEU:HA	1:z:240:PRO:HD3	1.88	0.40
1:6:556:GLN:HG2	1:6:557:PRO:HD3	2.03	0.40
1:7:598:GLU:H	1:7:598:GLU:HG2	1.79	0.40
1:7:601:VAL:HG23	1:7:717:THR:CG2	2.51	0.40
1:E:556:GLN:HG2	1:E:557:PRO:HD3	2.03	0.40
1:E:601:VAL:HG23	1:E:717:THR:CG2	2.51	0.40
1:F:556:GLN:HG2	1:F:557:PRO:HD3	2.03	0.40
1:H:370:THR:HB	1:H:371:LEU:H	1.77	0.40
1:J:575:SER:CB	1:J:578:THR:HG23	2.52	0.40
1:K:556:GLN:HG2	1:K:557:PRO:HD3	2.03	0.40
1:M:601:VAL:HG23	1:M:717:THR:CG2	2.51	0.40
1:O:611:ILE:HA	1:O:612:PRO:HD3	1.88	0.40
1:P:601:VAL:HG23	1:P:717:THR:CG2	2.51	0.40
1:Q:356:PHE:HA	1:Q:357:PRO:HD3	1.97	0.40
1:S:601:VAL:HG23	1:S:717:THR:CG2	2.51	0.40
1:c:357:PRO:N	1:c:358:PRO:HD2	2.36	0.40
1:d:598:GLU:H	1:d:598:GLU:HG2	1.79	0.40
1:f:428:ASN:HA	1:f:429:PRO:HD3	1.75	0.40
1:f:515:LEU:HD12	1:f:515:LEU:HA	1.93	0.40
1:i:465:PHE:HA	1:i:466:PRO:HD3	1.85	0.40
1:j:356:PHE:HA	1:j:357:PRO:HD3	1.97	0.40
1:x:465:PHE:HA	1:x:466:PRO:HD3	1.85	0.40
1:x:556:GLN:HG2	1:x:557:PRO:HD3	2.03	0.40
1:2:228:ARG:HA	1:2:228:ARG:HD2	1.93	0.40
1:4:357:PRO:N	1:4:358:PRO:HD2	2.36	0.40
1:7:684:ASN:HA	1:7:685:PRO:HD3	1.88	0.40
1:8:357:PRO:N	1:8:358:PRO:HD2	2.36	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	1	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	2	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	3	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	4	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	5	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	6	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	7	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	8	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	A	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	B	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	C	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	D	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	E	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	F	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	G	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	H	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	I	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	J	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	K	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	L	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	M	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	N	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	O	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	P	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	Q	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	S	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	T	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	U	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	V	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	W	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	X	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	Y	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	Z	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	a	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	b	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	c	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	d	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	e	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	f	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	g	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	h	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	i	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	j	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	k	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	l	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	m	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	n	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	o	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	p	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	q	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	r	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	s	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	t	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	u	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	v	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	x	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	y	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
1	z	514/724 (71%)	502 (98%)	9 (2%)	3 (1%)	21	29
All	All	30840/43440 (71%)	30120 (98%)	540 (2%)	180 (1%)	23	29

All (180) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	481	VAL
1	A	516	GLN
1	A	518	SER
1	B	481	VAL
1	B	516	GLN
1	B	518	SER
1	C	481	VAL
1	C	516	GLN
1	C	518	SER
1	D	481	VAL
1	D	516	GLN
1	D	518	SER
1	E	481	VAL
1	E	516	GLN
1	E	518	SER
1	F	481	VAL
1	F	516	GLN
1	F	518	SER
1	G	481	VAL
1	G	516	GLN
1	G	518	SER
1	H	481	VAL
1	H	516	GLN
1	H	518	SER
1	I	481	VAL
1	I	516	GLN
1	I	518	SER
1	J	481	VAL
1	J	516	GLN
1	J	518	SER
1	K	481	VAL
1	K	516	GLN

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Mol	Chain	Res	Type
1	K	518	SER
1	L	481	VAL
1	L	516	GLN
1	L	518	SER
1	M	481	VAL
1	M	516	GLN
1	M	518	SER
1	N	481	VAL
1	N	516	GLN
1	N	518	SER
1	O	481	VAL
1	O	516	GLN
1	O	518	SER
1	P	481	VAL
1	P	516	GLN
1	P	518	SER
1	Q	481	VAL
1	Q	516	GLN
1	Q	518	SER
1	R	481	VAL
1	R	516	GLN
1	R	518	SER
1	S	481	VAL
1	S	516	GLN
1	S	518	SER
1	T	481	VAL
1	T	516	GLN
1	T	518	SER
1	U	481	VAL
1	U	516	GLN
1	U	518	SER
1	V	481	VAL
1	V	516	GLN
1	V	518	SER
1	W	481	VAL
1	W	516	GLN
1	W	518	SER
1	X	481	VAL
1	X	516	GLN
1	X	518	SER
1	Y	481	VAL
1	Y	516	GLN

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Mol	Chain	Res	Type
1	Y	518	SER
1	Z	481	VAL
1	Z	516	GLN
1	Z	518	SER
1	a	481	VAL
1	a	516	GLN
1	a	518	SER
1	b	481	VAL
1	b	516	GLN
1	b	518	SER
1	c	481	VAL
1	c	516	GLN
1	c	518	SER
1	d	481	VAL
1	d	516	GLN
1	d	518	SER
1	e	481	VAL
1	e	516	GLN
1	e	518	SER
1	f	481	VAL
1	f	516	GLN
1	f	518	SER
1	g	481	VAL
1	g	516	GLN
1	g	518	SER
1	h	481	VAL
1	h	516	GLN
1	h	518	SER
1	i	481	VAL
1	i	516	GLN
1	i	518	SER
1	j	481	VAL
1	j	516	GLN
1	j	518	SER
1	k	481	VAL
1	k	516	GLN
1	k	518	SER
1	l	481	VAL
1	l	516	GLN
1	l	518	SER
1	m	481	VAL
1	m	516	GLN

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Mol	Chain	Res	Type
1	m	518	SER
1	n	481	VAL
1	n	516	GLN
1	n	518	SER
1	o	481	VAL
1	o	516	GLN
1	o	518	SER
1	p	481	VAL
1	p	516	GLN
1	p	518	SER
1	q	481	VAL
1	q	516	GLN
1	q	518	SER
1	r	481	VAL
1	r	516	GLN
1	r	518	SER
1	s	481	VAL
1	s	516	GLN
1	s	518	SER
1	t	481	VAL
1	t	516	GLN
1	t	518	SER
1	u	481	VAL
1	u	516	GLN
1	u	518	SER
1	v	481	VAL
1	v	516	GLN
1	v	518	SER
1	w	481	VAL
1	w	516	GLN
1	w	518	SER
1	x	481	VAL
1	x	516	GLN
1	x	518	SER
1	y	481	VAL
1	y	516	GLN
1	y	518	SER
1	z	481	VAL
1	z	516	GLN
1	z	518	SER
1	1	481	VAL
1	1	516	GLN

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Mol	Chain	Res	Type
1	1	518	SER
1	2	481	VAL
1	2	516	GLN
1	2	518	SER
1	3	481	VAL
1	3	516	GLN
1	3	518	SER
1	4	481	VAL
1	4	516	GLN
1	4	518	SER
1	5	481	VAL
1	5	516	GLN
1	5	518	SER
1	6	481	VAL
1	6	516	GLN
1	6	518	SER
1	7	481	VAL
1	7	516	GLN
1	7	518	SER
1	8	481	VAL
1	8	516	GLN
1	8	518	SER

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	1	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	2	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	3	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	4	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	5	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	6	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	7	451/612 (74%)	374 (83%)	77 (17%)	2 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	8	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	A	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	B	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	C	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	D	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	E	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	F	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	G	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	H	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	I	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	J	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	K	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	L	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	M	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	N	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	O	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	P	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	Q	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	R	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	S	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	T	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	U	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	V	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	W	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	X	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	Y	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	Z	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	a	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	b	451/612 (74%)	373 (83%)	78 (17%)	2	1
1	c	451/612 (74%)	374 (83%)	77 (17%)	2	1
1	d	451/612 (74%)	373 (83%)	78 (17%)	2	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	e	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	f	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	g	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	h	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	i	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	j	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	k	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	l	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	m	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	n	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	o	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	p	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	q	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	r	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	s	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	t	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	u	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	v	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	w	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	x	451/612 (74%)	373 (83%)	78 (17%)	2 1
1	y	451/612 (74%)	374 (83%)	77 (17%)	2 1
1	z	451/612 (74%)	373 (83%)	78 (17%)	2 1
All	All	27060/36720 (74%)	22410 (83%)	4650 (17%)	4 1

All (4650) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	209	ASP
1	A	213	ASN
1	A	232	LYS
1	A	233	SER
1	A	238	VAL
1	A	239	LEU
1	A	251	LYS

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Mol	Chain	Res	Type
1	A	254	SER
1	A	255	VAL
1	A	275	PHE
1	A	279	HIS
1	A	285	ARG
1	A	289	ARG
1	A	300	ARG
1	A	303	ARG
1	A	309	ILE
1	A	312	LYS
1	A	313	GLU
1	A	314	VAL
1	A	315	THR
1	A	317	GLN
1	A	322	THR
1	A	327	LEU
1	A	328	THR
1	A	331	VAL
1	A	345	VAL
1	A	370	THR
1	A	377	GLU
1	A	381	GLU
1	A	383	SER
1	A	388	LEU
1	A	394	LYS
1	A	398	THR
1	A	416	SER
1	A	423	LEU
1	A	428	ASN
1	A	440	SER
1	A	441	THR
1	A	442	ASN
1	A	444	THR
1	A	462	LYS
1	A	472	THR
1	A	481	VAL
1	A	491	THR
1	A	497	LEU
1	A	501	SER
1	A	504	VAL
1	A	507	GLN
1	A	515	LEU

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Mol	Chain	Res	Type
1	A	516	GLN
1	A	523	LEU
1	A	526	THR
1	A	532	GLN
1	A	554	GLU
1	A	556	GLN
1	A	561	VAL
1	A	565	VAL
1	A	575	SER
1	A	577	THR
1	A	578	THR
1	A	589	GLU
1	A	597	MET
1	A	598	GLU
1	A	607	ILE
1	A	635	MET
1	A	655	VAL
1	A	660	THR
1	A	666	GLN
1	A	675	LEU
1	A	676	LYS
1	A	677	LYS
1	A	684	ASN
1	A	686	GLU
1	A	708	GLU
1	A	711	SER
1	A	712	THR
1	A	713	ARG
1	A	721	THR
1	B	209	ASP
1	B	213	ASN
1	B	232	LYS
1	B	233	SER
1	B	238	VAL
1	B	239	LEU
1	B	251	LYS
1	B	254	SER
1	B	255	VAL
1	B	275	PHE
1	B	279	HIS
1	B	285	ARG
1	B	289	ARG

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Mol	Chain	Res	Type
1	B	300	ARG
1	B	303	ARG
1	B	309	ILE
1	B	312	LYS
1	B	313	GLU
1	B	314	VAL
1	B	315	THR
1	B	317	GLN
1	B	322	THR
1	B	327	LEU
1	B	328	THR
1	B	331	VAL
1	B	345	VAL
1	B	370	THR
1	B	377	GLU
1	B	381	GLU
1	B	383	SER
1	B	388	LEU
1	B	394	LYS
1	B	398	THR
1	B	416	SER
1	B	423	LEU
1	B	428	ASN
1	B	440	SER
1	B	441	THR
1	B	442	ASN
1	B	444	THR
1	B	462	LYS
1	B	472	THR
1	B	481	VAL
1	B	491	THR
1	B	497	LEU
1	B	501	SER
1	B	504	VAL
1	B	507	GLN
1	B	515	LEU
1	B	516	GLN
1	B	523	LEU
1	B	526	THR
1	B	532	GLN
1	B	554	GLU
1	B	556	GLN

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Mol	Chain	Res	Type
1	B	561	VAL
1	B	565	VAL
1	B	575	SER
1	B	577	THR
1	B	578	THR
1	B	589	GLU
1	B	597	MET
1	B	598	GLU
1	B	607	ILE
1	B	635	MET
1	B	655	VAL
1	B	660	THR
1	B	666	GLN
1	B	675	LEU
1	B	676	LYS
1	B	677	LYS
1	B	684	ASN
1	B	686	GLU
1	B	708	GLU
1	B	711	SER
1	B	712	THR
1	B	713	ARG
1	B	721	THR
1	C	209	ASP
1	C	213	ASN
1	C	232	LYS
1	C	233	SER
1	C	238	VAL
1	C	239	LEU
1	C	251	LYS
1	C	254	SER
1	C	255	VAL
1	C	275	PHE
1	C	279	HIS
1	C	285	ARG
1	C	289	ARG
1	C	300	ARG
1	C	303	ARG
1	C	309	ILE
1	C	312	LYS
1	C	313	GLU
1	C	314	VAL

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Mol	Chain	Res	Type
1	C	315	THR
1	C	317	GLN
1	C	322	THR
1	C	327	LEU
1	C	328	THR
1	C	331	VAL
1	C	345	VAL
1	C	370	THR
1	C	377	GLU
1	C	381	GLU
1	C	383	SER
1	C	388	LEU
1	C	394	LYS
1	C	398	THR
1	C	416	SER
1	C	423	LEU
1	C	428	ASN
1	C	440	SER
1	C	441	THR
1	C	442	ASN
1	C	444	THR
1	C	462	LYS
1	C	472	THR
1	C	481	VAL
1	C	491	THR
1	C	497	LEU
1	C	501	SER
1	C	504	VAL
1	C	507	GLN
1	C	515	LEU
1	C	516	GLN
1	C	523	LEU
1	C	526	THR
1	C	532	GLN
1	C	554	GLU
1	C	556	GLN
1	C	561	VAL
1	C	565	VAL
1	C	575	SER
1	C	577	THR
1	C	578	THR
1	C	589	GLU

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Mol	Chain	Res	Type
1	C	597	MET
1	C	598	GLU
1	C	607	ILE
1	C	635	MET
1	C	655	VAL
1	C	660	THR
1	C	666	GLN
1	C	675	LEU
1	C	676	LYS
1	C	677	LYS
1	C	684	ASN
1	C	686	GLU
1	C	708	GLU
1	C	711	SER
1	C	712	THR
1	C	713	ARG
1	C	721	THR
1	D	209	ASP
1	D	213	ASN
1	D	232	LYS
1	D	233	SER
1	D	238	VAL
1	D	239	LEU
1	D	251	LYS
1	D	254	SER
1	D	255	VAL
1	D	275	PHE
1	D	279	HIS
1	D	285	ARG
1	D	289	ARG
1	D	300	ARG
1	D	303	ARG
1	D	309	ILE
1	D	312	LYS
1	D	313	GLU
1	D	314	VAL
1	D	315	THR
1	D	317	GLN
1	D	322	THR
1	D	327	LEU
1	D	328	THR
1	D	331	VAL

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Mol	Chain	Res	Type
1	D	345	VAL
1	D	370	THR
1	D	377	GLU
1	D	381	GLU
1	D	383	SER
1	D	388	LEU
1	D	394	LYS
1	D	398	THR
1	D	416	SER
1	D	423	LEU
1	D	428	ASN
1	D	440	SER
1	D	441	THR
1	D	442	ASN
1	D	444	THR
1	D	462	LYS
1	D	472	THR
1	D	481	VAL
1	D	491	THR
1	D	497	LEU
1	D	501	SER
1	D	504	VAL
1	D	507	GLN
1	D	515	LEU
1	D	516	GLN
1	D	523	LEU
1	D	526	THR
1	D	532	GLN
1	D	554	GLU
1	D	556	GLN
1	D	561	VAL
1	D	565	VAL
1	D	575	SER
1	D	577	THR
1	D	578	THR
1	D	589	GLU
1	D	598	GLU
1	D	607	ILE
1	D	635	MET
1	D	655	VAL
1	D	660	THR
1	D	666	GLN

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Mol	Chain	Res	Type
1	D	675	LEU
1	D	676	LYS
1	D	677	LYS
1	D	684	ASN
1	D	686	GLU
1	D	708	GLU
1	D	711	SER
1	D	712	THR
1	D	713	ARG
1	D	721	THR
1	E	209	ASP
1	E	213	ASN
1	E	232	LYS
1	E	233	SER
1	E	238	VAL
1	E	239	LEU
1	E	251	LYS
1	E	254	SER
1	E	255	VAL
1	E	275	PHE
1	E	279	HIS
1	E	285	ARG
1	E	289	ARG
1	E	300	ARG
1	E	303	ARG
1	E	309	ILE
1	E	312	LYS
1	E	313	GLU
1	E	314	VAL
1	E	315	THR
1	E	317	GLN
1	E	322	THR
1	E	327	LEU
1	E	328	THR
1	E	331	VAL
1	E	345	VAL
1	E	370	THR
1	E	377	GLU
1	E	381	GLU
1	E	383	SER
1	E	388	LEU
1	E	394	LYS

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Mol	Chain	Res	Type
1	E	398	THR
1	E	416	SER
1	E	423	LEU
1	E	428	ASN
1	E	440	SER
1	E	441	THR
1	E	442	ASN
1	E	444	THR
1	E	462	LYS
1	E	472	THR
1	E	481	VAL
1	E	491	THR
1	E	497	LEU
1	E	501	SER
1	E	504	VAL
1	E	507	GLN
1	E	515	LEU
1	E	516	GLN
1	E	523	LEU
1	E	526	THR
1	E	532	GLN
1	E	554	GLU
1	E	556	GLN
1	E	561	VAL
1	E	565	VAL
1	E	575	SER
1	E	577	THR
1	E	578	THR
1	E	589	GLU
1	E	598	GLU
1	E	607	ILE
1	E	635	MET
1	E	655	VAL
1	E	660	THR
1	E	666	GLN
1	E	675	LEU
1	E	676	LYS
1	E	677	LYS
1	E	684	ASN
1	E	686	GLU
1	E	708	GLU
1	E	711	SER

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Mol	Chain	Res	Type
1	E	712	THR
1	E	713	ARG
1	E	721	THR
1	F	209	ASP
1	F	213	ASN
1	F	232	LYS
1	F	233	SER
1	F	238	VAL
1	F	239	LEU
1	F	251	LYS
1	F	254	SER
1	F	255	VAL
1	F	275	PHE
1	F	279	HIS
1	F	285	ARG
1	F	289	ARG
1	F	300	ARG
1	F	303	ARG
1	F	309	ILE
1	F	312	LYS
1	F	313	GLU
1	F	314	VAL
1	F	315	THR
1	F	317	GLN
1	F	322	THR
1	F	327	LEU
1	F	328	THR
1	F	331	VAL
1	F	345	VAL
1	F	370	THR
1	F	377	GLU
1	F	381	GLU
1	F	383	SER
1	F	388	LEU
1	F	394	LYS
1	F	398	THR
1	F	416	SER
1	F	423	LEU
1	F	428	ASN
1	F	440	SER
1	F	441	THR
1	F	442	ASN

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Mol	Chain	Res	Type
1	F	444	THR
1	F	462	LYS
1	F	472	THR
1	F	481	VAL
1	F	491	THR
1	F	497	LEU
1	F	501	SER
1	F	504	VAL
1	F	507	GLN
1	F	515	LEU
1	F	516	GLN
1	F	523	LEU
1	F	526	THR
1	F	532	GLN
1	F	554	GLU
1	F	556	GLN
1	F	561	VAL
1	F	565	VAL
1	F	575	SER
1	F	577	THR
1	F	578	THR
1	F	589	GLU
1	F	598	GLU
1	F	607	ILE
1	F	635	MET
1	F	655	VAL
1	F	660	THR
1	F	666	GLN
1	F	675	LEU
1	F	676	LYS
1	F	677	LYS
1	F	684	ASN
1	F	686	GLU
1	F	708	GLU
1	F	711	SER
1	F	712	THR
1	F	713	ARG
1	F	721	THR
1	G	209	ASP
1	G	213	ASN
1	G	232	LYS
1	G	233	SER

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Mol	Chain	Res	Type
1	G	238	VAL
1	G	239	LEU
1	G	251	LYS
1	G	254	SER
1	G	255	VAL
1	G	275	PHE
1	G	279	HIS
1	G	285	ARG
1	G	289	ARG
1	G	300	ARG
1	G	303	ARG
1	G	309	ILE
1	G	312	LYS
1	G	313	GLU
1	G	314	VAL
1	G	315	THR
1	G	317	GLN
1	G	322	THR
1	G	327	LEU
1	G	328	THR
1	G	331	VAL
1	G	345	VAL
1	G	370	THR
1	G	377	GLU
1	G	381	GLU
1	G	383	SER
1	G	388	LEU
1	G	394	LYS
1	G	398	THR
1	G	416	SER
1	G	423	LEU
1	G	428	ASN
1	G	440	SER
1	G	441	THR
1	G	442	ASN
1	G	444	THR
1	G	462	LYS
1	G	472	THR
1	G	481	VAL
1	G	491	THR
1	G	497	LEU
1	G	501	SER

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Mol	Chain	Res	Type
1	G	504	VAL
1	G	507	GLN
1	G	515	LEU
1	G	516	GLN
1	G	523	LEU
1	G	526	THR
1	G	532	GLN
1	G	554	GLU
1	G	556	GLN
1	G	561	VAL
1	G	565	VAL
1	G	575	SER
1	G	577	THR
1	G	578	THR
1	G	589	GLU
1	G	598	GLU
1	G	607	ILE
1	G	635	MET
1	G	655	VAL
1	G	660	THR
1	G	666	GLN
1	G	675	LEU
1	G	676	LYS
1	G	677	LYS
1	G	684	ASN
1	G	686	GLU
1	G	708	GLU
1	G	711	SER
1	G	712	THR
1	G	713	ARG
1	G	721	THR
1	H	209	ASP
1	H	213	ASN
1	H	232	LYS
1	H	233	SER
1	H	238	VAL
1	H	239	LEU
1	H	251	LYS
1	H	254	SER
1	H	255	VAL
1	H	275	PHE
1	H	279	HIS

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Mol	Chain	Res	Type
1	H	285	ARG
1	H	289	ARG
1	H	300	ARG
1	H	303	ARG
1	H	309	ILE
1	H	312	LYS
1	H	313	GLU
1	H	314	VAL
1	H	315	THR
1	H	317	GLN
1	H	322	THR
1	H	327	LEU
1	H	328	THR
1	H	331	VAL
1	H	345	VAL
1	H	370	THR
1	H	377	GLU
1	H	381	GLU
1	H	383	SER
1	H	388	LEU
1	H	394	LYS
1	H	398	THR
1	H	416	SER
1	H	423	LEU
1	H	428	ASN
1	H	440	SER
1	H	441	THR
1	H	442	ASN
1	H	444	THR
1	H	462	LYS
1	H	472	THR
1	H	481	VAL
1	H	491	THR
1	H	497	LEU
1	H	501	SER
1	H	504	VAL
1	H	507	GLN
1	H	515	LEU
1	H	516	GLN
1	H	523	LEU
1	H	526	THR
1	H	532	GLN

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Mol	Chain	Res	Type
1	H	554	GLU
1	H	556	GLN
1	H	561	VAL
1	H	565	VAL
1	H	575	SER
1	H	577	THR
1	H	578	THR
1	H	589	GLU
1	H	598	GLU
1	H	607	ILE
1	H	635	MET
1	H	655	VAL
1	H	660	THR
1	H	666	GLN
1	H	675	LEU
1	H	676	LYS
1	H	677	LYS
1	H	684	ASN
1	H	686	GLU
1	H	708	GLU
1	H	711	SER
1	H	712	THR
1	H	713	ARG
1	H	721	THR
1	I	209	ASP
1	I	213	ASN
1	I	232	LYS
1	I	233	SER
1	I	238	VAL
1	I	239	LEU
1	I	251	LYS
1	I	254	SER
1	I	255	VAL
1	I	275	PHE
1	I	279	HIS
1	I	285	ARG
1	I	289	ARG
1	I	300	ARG
1	I	303	ARG
1	I	309	ILE
1	I	312	LYS
1	I	313	GLU

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Mol	Chain	Res	Type
1	I	314	VAL
1	I	315	THR
1	I	317	GLN
1	I	322	THR
1	I	327	LEU
1	I	328	THR
1	I	331	VAL
1	I	345	VAL
1	I	370	THR
1	I	377	GLU
1	I	381	GLU
1	I	383	SER
1	I	388	LEU
1	I	394	LYS
1	I	398	THR
1	I	416	SER
1	I	423	LEU
1	I	428	ASN
1	I	440	SER
1	I	441	THR
1	I	442	ASN
1	I	444	THR
1	I	462	LYS
1	I	472	THR
1	I	481	VAL
1	I	491	THR
1	I	497	LEU
1	I	501	SER
1	I	504	VAL
1	I	507	GLN
1	I	515	LEU
1	I	516	GLN
1	I	523	LEU
1	I	526	THR
1	I	532	GLN
1	I	554	GLU
1	I	556	GLN
1	I	561	VAL
1	I	565	VAL
1	I	575	SER
1	I	577	THR
1	I	578	THR

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Mol	Chain	Res	Type
1	I	589	GLU
1	I	598	GLU
1	I	607	ILE
1	I	635	MET
1	I	655	VAL
1	I	660	THR
1	I	666	GLN
1	I	675	LEU
1	I	676	LYS
1	I	677	LYS
1	I	684	ASN
1	I	686	GLU
1	I	708	GLU
1	I	711	SER
1	I	712	THR
1	I	713	ARG
1	I	721	THR
1	J	209	ASP
1	J	213	ASN
1	J	232	LYS
1	J	233	SER
1	J	238	VAL
1	J	239	LEU
1	J	251	LYS
1	J	254	SER
1	J	255	VAL
1	J	275	PHE
1	J	279	HIS
1	J	285	ARG
1	J	289	ARG
1	J	300	ARG
1	J	303	ARG
1	J	309	ILE
1	J	312	LYS
1	J	313	GLU
1	J	314	VAL
1	J	315	THR
1	J	317	GLN
1	J	322	THR
1	J	327	LEU
1	J	328	THR
1	J	331	VAL

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Mol	Chain	Res	Type
1	J	345	VAL
1	J	370	THR
1	J	377	GLU
1	J	381	GLU
1	J	383	SER
1	J	388	LEU
1	J	394	LYS
1	J	398	THR
1	J	416	SER
1	J	423	LEU
1	J	428	ASN
1	J	440	SER
1	J	441	THR
1	J	442	ASN
1	J	444	THR
1	J	462	LYS
1	J	472	THR
1	J	481	VAL
1	J	491	THR
1	J	497	LEU
1	J	501	SER
1	J	504	VAL
1	J	507	GLN
1	J	515	LEU
1	J	516	GLN
1	J	523	LEU
1	J	526	THR
1	J	532	GLN
1	J	554	GLU
1	J	556	GLN
1	J	561	VAL
1	J	565	VAL
1	J	575	SER
1	J	577	THR
1	J	578	THR
1	J	589	GLU
1	J	598	GLU
1	J	607	ILE
1	J	635	MET
1	J	655	VAL
1	J	660	THR
1	J	666	GLN

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Mol	Chain	Res	Type
1	J	675	LEU
1	J	676	LYS
1	J	677	LYS
1	J	684	ASN
1	J	686	GLU
1	J	708	GLU
1	J	711	SER
1	J	712	THR
1	J	713	ARG
1	J	721	THR
1	K	209	ASP
1	K	213	ASN
1	K	232	LYS
1	K	233	SER
1	K	238	VAL
1	K	239	LEU
1	K	251	LYS
1	K	254	SER
1	K	255	VAL
1	K	275	PHE
1	K	279	HIS
1	K	285	ARG
1	K	289	ARG
1	K	300	ARG
1	K	303	ARG
1	K	309	ILE
1	K	312	LYS
1	K	313	GLU
1	K	314	VAL
1	K	315	THR
1	K	317	GLN
1	K	322	THR
1	K	327	LEU
1	K	328	THR
1	K	331	VAL
1	K	345	VAL
1	K	370	THR
1	K	377	GLU
1	K	381	GLU
1	K	383	SER
1	K	388	LEU
1	K	394	LYS

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Mol	Chain	Res	Type
1	K	398	THR
1	K	416	SER
1	K	423	LEU
1	K	428	ASN
1	K	440	SER
1	K	441	THR
1	K	442	ASN
1	K	444	THR
1	K	462	LYS
1	K	472	THR
1	K	481	VAL
1	K	491	THR
1	K	497	LEU
1	K	501	SER
1	K	504	VAL
1	K	507	GLN
1	K	515	LEU
1	K	516	GLN
1	K	523	LEU
1	K	526	THR
1	K	532	GLN
1	K	554	GLU
1	K	556	GLN
1	K	561	VAL
1	K	565	VAL
1	K	575	SER
1	K	577	THR
1	K	578	THR
1	K	589	GLU
1	K	597	MET
1	K	598	GLU
1	K	607	ILE
1	K	635	MET
1	K	655	VAL
1	K	660	THR
1	K	666	GLN
1	K	675	LEU
1	K	676	LYS
1	K	677	LYS
1	K	684	ASN
1	K	686	GLU
1	K	708	GLU

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Mol	Chain	Res	Type
1	K	711	SER
1	K	712	THR
1	K	713	ARG
1	K	721	THR
1	L	209	ASP
1	L	213	ASN
1	L	232	LYS
1	L	233	SER
1	L	238	VAL
1	L	239	LEU
1	L	251	LYS
1	L	254	SER
1	L	255	VAL
1	L	275	PHE
1	L	279	HIS
1	L	285	ARG
1	L	289	ARG
1	L	300	ARG
1	L	303	ARG
1	L	309	ILE
1	L	312	LYS
1	L	313	GLU
1	L	314	VAL
1	L	315	THR
1	L	317	GLN
1	L	322	THR
1	L	327	LEU
1	L	328	THR
1	L	331	VAL
1	L	345	VAL
1	L	370	THR
1	L	377	GLU
1	L	381	GLU
1	L	383	SER
1	L	388	LEU
1	L	394	LYS
1	L	398	THR
1	L	416	SER
1	L	423	LEU
1	L	428	ASN
1	L	440	SER
1	L	441	THR

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Mol	Chain	Res	Type
1	L	442	ASN
1	L	444	THR
1	L	462	LYS
1	L	472	THR
1	L	481	VAL
1	L	491	THR
1	L	497	LEU
1	L	501	SER
1	L	504	VAL
1	L	507	GLN
1	L	515	LEU
1	L	516	GLN
1	L	523	LEU
1	L	526	THR
1	L	532	GLN
1	L	554	GLU
1	L	556	GLN
1	L	561	VAL
1	L	565	VAL
1	L	575	SER
1	L	577	THR
1	L	578	THR
1	L	589	GLU
1	L	598	GLU
1	L	607	ILE
1	L	635	MET
1	L	655	VAL
1	L	660	THR
1	L	666	GLN
1	L	675	LEU
1	L	676	LYS
1	L	677	LYS
1	L	684	ASN
1	L	686	GLU
1	L	708	GLU
1	L	711	SER
1	L	712	THR
1	L	713	ARG
1	L	721	THR
1	M	209	ASP
1	M	213	ASN
1	M	232	LYS

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Mol	Chain	Res	Type
1	M	233	SER
1	M	238	VAL
1	M	239	LEU
1	M	251	LYS
1	M	254	SER
1	M	255	VAL
1	M	275	PHE
1	M	279	HIS
1	M	285	ARG
1	M	289	ARG
1	M	300	ARG
1	M	303	ARG
1	M	309	ILE
1	M	312	LYS
1	M	313	GLU
1	M	314	VAL
1	M	315	THR
1	M	317	GLN
1	M	322	THR
1	M	327	LEU
1	M	328	THR
1	M	331	VAL
1	M	345	VAL
1	M	370	THR
1	M	377	GLU
1	M	381	GLU
1	M	383	SER
1	M	388	LEU
1	M	394	LYS
1	M	398	THR
1	M	416	SER
1	M	423	LEU
1	M	428	ASN
1	M	440	SER
1	M	441	THR
1	M	442	ASN
1	M	444	THR
1	M	462	LYS
1	M	472	THR
1	M	481	VAL
1	M	491	THR
1	M	497	LEU

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Mol	Chain	Res	Type
1	M	501	SER
1	M	504	VAL
1	M	507	GLN
1	M	515	LEU
1	M	516	GLN
1	M	523	LEU
1	M	526	THR
1	M	532	GLN
1	M	554	GLU
1	M	556	GLN
1	M	561	VAL
1	M	565	VAL
1	M	575	SER
1	M	577	THR
1	M	578	THR
1	M	589	GLU
1	M	597	MET
1	M	598	GLU
1	M	607	ILE
1	M	635	MET
1	M	655	VAL
1	M	660	THR
1	M	666	GLN
1	M	675	LEU
1	M	676	LYS
1	M	677	LYS
1	M	684	ASN
1	M	686	GLU
1	M	708	GLU
1	M	711	SER
1	M	712	THR
1	M	713	ARG
1	M	721	THR
1	N	209	ASP
1	N	213	ASN
1	N	232	LYS
1	N	233	SER
1	N	238	VAL
1	N	239	LEU
1	N	251	LYS
1	N	254	SER
1	N	255	VAL

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Mol	Chain	Res	Type
1	N	275	PHE
1	N	279	HIS
1	N	285	ARG
1	N	289	ARG
1	N	300	ARG
1	N	303	ARG
1	N	309	ILE
1	N	312	LYS
1	N	313	GLU
1	N	314	VAL
1	N	315	THR
1	N	317	GLN
1	N	322	THR
1	N	327	LEU
1	N	328	THR
1	N	331	VAL
1	N	345	VAL
1	N	370	THR
1	N	377	GLU
1	N	381	GLU
1	N	383	SER
1	N	388	LEU
1	N	394	LYS
1	N	398	THR
1	N	416	SER
1	N	423	LEU
1	N	428	ASN
1	N	440	SER
1	N	441	THR
1	N	442	ASN
1	N	444	THR
1	N	462	LYS
1	N	472	THR
1	N	481	VAL
1	N	491	THR
1	N	497	LEU
1	N	501	SER
1	N	504	VAL
1	N	507	GLN
1	N	515	LEU
1	N	516	GLN
1	N	523	LEU

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Mol	Chain	Res	Type
1	N	526	THR
1	N	532	GLN
1	N	554	GLU
1	N	556	GLN
1	N	561	VAL
1	N	565	VAL
1	N	575	SER
1	N	577	THR
1	N	578	THR
1	N	589	GLU
1	N	597	MET
1	N	598	GLU
1	N	607	ILE
1	N	635	MET
1	N	655	VAL
1	N	660	THR
1	N	666	GLN
1	N	675	LEU
1	N	676	LYS
1	N	677	LYS
1	N	684	ASN
1	N	686	GLU
1	N	708	GLU
1	N	711	SER
1	N	712	THR
1	N	713	ARG
1	N	721	THR
1	O	209	ASP
1	O	213	ASN
1	O	232	LYS
1	O	233	SER
1	O	238	VAL
1	O	239	LEU
1	O	251	LYS
1	O	254	SER
1	O	255	VAL
1	O	275	PHE
1	O	279	HIS
1	O	285	ARG
1	O	289	ARG
1	O	300	ARG
1	O	303	ARG

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Mol	Chain	Res	Type
1	O	309	ILE
1	O	312	LYS
1	O	313	GLU
1	O	314	VAL
1	O	315	THR
1	O	317	GLN
1	O	322	THR
1	O	327	LEU
1	O	328	THR
1	O	331	VAL
1	O	345	VAL
1	O	370	THR
1	O	377	GLU
1	O	381	GLU
1	O	383	SER
1	O	388	LEU
1	O	394	LYS
1	O	398	THR
1	O	416	SER
1	O	423	LEU
1	O	428	ASN
1	O	440	SER
1	O	441	THR
1	O	442	ASN
1	O	444	THR
1	O	462	LYS
1	O	472	THR
1	O	481	VAL
1	O	491	THR
1	O	497	LEU
1	O	501	SER
1	O	504	VAL
1	O	507	GLN
1	O	515	LEU
1	O	516	GLN
1	O	523	LEU
1	O	526	THR
1	O	532	GLN
1	O	554	GLU
1	O	556	GLN
1	O	561	VAL
1	O	565	VAL

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Mol	Chain	Res	Type
1	O	575	SER
1	O	577	THR
1	O	578	THR
1	O	589	GLU
1	O	598	GLU
1	O	607	ILE
1	O	635	MET
1	O	655	VAL
1	O	660	THR
1	O	666	GLN
1	O	675	LEU
1	O	676	LYS
1	O	677	LYS
1	O	684	ASN
1	O	686	GLU
1	O	708	GLU
1	O	711	SER
1	O	712	THR
1	O	713	ARG
1	O	721	THR
1	P	209	ASP
1	P	213	ASN
1	P	232	LYS
1	P	233	SER
1	P	238	VAL
1	P	239	LEU
1	P	251	LYS
1	P	254	SER
1	P	255	VAL
1	P	275	PHE
1	P	279	HIS
1	P	285	ARG
1	P	289	ARG
1	P	300	ARG
1	P	303	ARG
1	P	309	ILE
1	P	312	LYS
1	P	313	GLU
1	P	314	VAL
1	P	315	THR
1	P	317	GLN
1	P	322	THR

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Mol	Chain	Res	Type
1	P	327	LEU
1	P	328	THR
1	P	331	VAL
1	P	345	VAL
1	P	370	THR
1	P	377	GLU
1	P	381	GLU
1	P	383	SER
1	P	388	LEU
1	P	394	LYS
1	P	398	THR
1	P	416	SER
1	P	423	LEU
1	P	428	ASN
1	P	440	SER
1	P	441	THR
1	P	442	ASN
1	P	444	THR
1	P	462	LYS
1	P	472	THR
1	P	481	VAL
1	P	491	THR
1	P	497	LEU
1	P	501	SER
1	P	504	VAL
1	P	507	GLN
1	P	515	LEU
1	P	516	GLN
1	P	523	LEU
1	P	526	THR
1	P	532	GLN
1	P	554	GLU
1	P	556	GLN
1	P	561	VAL
1	P	565	VAL
1	P	575	SER
1	P	577	THR
1	P	578	THR
1	P	589	GLU
1	P	597	MET
1	P	598	GLU
1	P	607	ILE

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Mol	Chain	Res	Type
1	P	635	MET
1	P	655	VAL
1	P	660	THR
1	P	666	GLN
1	P	675	LEU
1	P	676	LYS
1	P	677	LYS
1	P	684	ASN
1	P	686	GLU
1	P	708	GLU
1	P	711	SER
1	P	712	THR
1	P	713	ARG
1	P	721	THR
1	Q	209	ASP
1	Q	213	ASN
1	Q	232	LYS
1	Q	233	SER
1	Q	238	VAL
1	Q	239	LEU
1	Q	251	LYS
1	Q	254	SER
1	Q	255	VAL
1	Q	275	PHE
1	Q	279	HIS
1	Q	285	ARG
1	Q	289	ARG
1	Q	300	ARG
1	Q	303	ARG
1	Q	309	ILE
1	Q	312	LYS
1	Q	313	GLU
1	Q	314	VAL
1	Q	315	THR
1	Q	317	GLN
1	Q	322	THR
1	Q	327	LEU
1	Q	328	THR
1	Q	331	VAL
1	Q	345	VAL
1	Q	370	THR
1	Q	377	GLU

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Mol	Chain	Res	Type
1	Q	381	GLU
1	Q	383	SER
1	Q	388	LEU
1	Q	394	LYS
1	Q	398	THR
1	Q	416	SER
1	Q	423	LEU
1	Q	428	ASN
1	Q	440	SER
1	Q	441	THR
1	Q	442	ASN
1	Q	444	THR
1	Q	462	LYS
1	Q	472	THR
1	Q	481	VAL
1	Q	491	THR
1	Q	497	LEU
1	Q	501	SER
1	Q	504	VAL
1	Q	507	GLN
1	Q	515	LEU
1	Q	516	GLN
1	Q	523	LEU
1	Q	526	THR
1	Q	532	GLN
1	Q	554	GLU
1	Q	556	GLN
1	Q	561	VAL
1	Q	565	VAL
1	Q	575	SER
1	Q	577	THR
1	Q	578	THR
1	Q	589	GLU
1	Q	597	MET
1	Q	598	GLU
1	Q	607	ILE
1	Q	635	MET
1	Q	655	VAL
1	Q	660	THR
1	Q	666	GLN
1	Q	675	LEU
1	Q	676	LYS

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Mol	Chain	Res	Type
1	Q	677	LYS
1	Q	684	ASN
1	Q	686	GLU
1	Q	708	GLU
1	Q	711	SER
1	Q	712	THR
1	Q	713	ARG
1	Q	721	THR
1	R	209	ASP
1	R	213	ASN
1	R	232	LYS
1	R	233	SER
1	R	238	VAL
1	R	239	LEU
1	R	251	LYS
1	R	254	SER
1	R	255	VAL
1	R	275	PHE
1	R	279	HIS
1	R	285	ARG
1	R	289	ARG
1	R	300	ARG
1	R	303	ARG
1	R	309	ILE
1	R	312	LYS
1	R	313	GLU
1	R	314	VAL
1	R	315	THR
1	R	317	GLN
1	R	322	THR
1	R	327	LEU
1	R	328	THR
1	R	331	VAL
1	R	345	VAL
1	R	370	THR
1	R	377	GLU
1	R	381	GLU
1	R	383	SER
1	R	388	LEU
1	R	394	LYS
1	R	398	THR
1	R	416	SER

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Mol	Chain	Res	Type
1	R	423	LEU
1	R	428	ASN
1	R	440	SER
1	R	441	THR
1	R	442	ASN
1	R	444	THR
1	R	462	LYS
1	R	472	THR
1	R	481	VAL
1	R	491	THR
1	R	497	LEU
1	R	501	SER
1	R	504	VAL
1	R	507	GLN
1	R	515	LEU
1	R	516	GLN
1	R	523	LEU
1	R	526	THR
1	R	532	GLN
1	R	554	GLU
1	R	556	GLN
1	R	561	VAL
1	R	565	VAL
1	R	575	SER
1	R	577	THR
1	R	578	THR
1	R	589	GLU
1	R	597	MET
1	R	598	GLU
1	R	607	ILE
1	R	635	MET
1	R	655	VAL
1	R	660	THR
1	R	666	GLN
1	R	675	LEU
1	R	676	LYS
1	R	677	LYS
1	R	684	ASN
1	R	686	GLU
1	R	708	GLU
1	R	711	SER
1	R	712	THR

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Mol	Chain	Res	Type
1	R	713	ARG
1	R	721	THR
1	S	209	ASP
1	S	213	ASN
1	S	232	LYS
1	S	233	SER
1	S	238	VAL
1	S	239	LEU
1	S	251	LYS
1	S	254	SER
1	S	255	VAL
1	S	275	PHE
1	S	279	HIS
1	S	285	ARG
1	S	289	ARG
1	S	300	ARG
1	S	303	ARG
1	S	309	ILE
1	S	312	LYS
1	S	313	GLU
1	S	314	VAL
1	S	315	THR
1	S	317	GLN
1	S	322	THR
1	S	327	LEU
1	S	328	THR
1	S	331	VAL
1	S	345	VAL
1	S	370	THR
1	S	377	GLU
1	S	381	GLU
1	S	383	SER
1	S	388	LEU
1	S	394	LYS
1	S	398	THR
1	S	416	SER
1	S	423	LEU
1	S	428	ASN
1	S	440	SER
1	S	441	THR
1	S	442	ASN
1	S	444	THR

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Mol	Chain	Res	Type
1	S	462	LYS
1	S	472	THR
1	S	481	VAL
1	S	491	THR
1	S	497	LEU
1	S	501	SER
1	S	504	VAL
1	S	507	GLN
1	S	515	LEU
1	S	516	GLN
1	S	523	LEU
1	S	526	THR
1	S	532	GLN
1	S	554	GLU
1	S	556	GLN
1	S	561	VAL
1	S	565	VAL
1	S	575	SER
1	S	577	THR
1	S	578	THR
1	S	589	GLU
1	S	598	GLU
1	S	607	ILE
1	S	635	MET
1	S	655	VAL
1	S	660	THR
1	S	666	GLN
1	S	675	LEU
1	S	676	LYS
1	S	677	LYS
1	S	684	ASN
1	S	686	GLU
1	S	708	GLU
1	S	711	SER
1	S	712	THR
1	S	713	ARG
1	S	721	THR
1	T	209	ASP
1	T	213	ASN
1	T	232	LYS
1	T	233	SER
1	T	238	VAL

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Mol	Chain	Res	Type
1	T	239	LEU
1	T	251	LYS
1	T	254	SER
1	T	255	VAL
1	T	275	PHE
1	T	279	HIS
1	T	285	ARG
1	T	289	ARG
1	T	300	ARG
1	T	303	ARG
1	T	309	ILE
1	T	312	LYS
1	T	313	GLU
1	T	314	VAL
1	T	315	THR
1	T	317	GLN
1	T	322	THR
1	T	327	LEU
1	T	328	THR
1	T	331	VAL
1	T	345	VAL
1	T	370	THR
1	T	377	GLU
1	T	381	GLU
1	T	383	SER
1	T	388	LEU
1	T	394	LYS
1	T	398	THR
1	T	416	SER
1	T	423	LEU
1	T	428	ASN
1	T	440	SER
1	T	441	THR
1	T	442	ASN
1	T	444	THR
1	T	462	LYS
1	T	472	THR
1	T	481	VAL
1	T	491	THR
1	T	497	LEU
1	T	501	SER
1	T	504	VAL

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Mol	Chain	Res	Type
1	T	507	GLN
1	T	515	LEU
1	T	516	GLN
1	T	523	LEU
1	T	526	THR
1	T	532	GLN
1	T	554	GLU
1	T	556	GLN
1	T	561	VAL
1	T	565	VAL
1	T	575	SER
1	T	577	THR
1	T	578	THR
1	T	589	GLU
1	T	597	MET
1	T	598	GLU
1	T	607	ILE
1	T	635	MET
1	T	655	VAL
1	T	660	THR
1	T	666	GLN
1	T	675	LEU
1	T	676	LYS
1	T	677	LYS
1	T	684	ASN
1	T	686	GLU
1	T	708	GLU
1	T	711	SER
1	T	712	THR
1	T	713	ARG
1	T	721	THR
1	U	209	ASP
1	U	213	ASN
1	U	232	LYS
1	U	233	SER
1	U	238	VAL
1	U	239	LEU
1	U	251	LYS
1	U	254	SER
1	U	255	VAL
1	U	275	PHE
1	U	279	HIS

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Mol	Chain	Res	Type
1	U	285	ARG
1	U	289	ARG
1	U	300	ARG
1	U	303	ARG
1	U	309	ILE
1	U	312	LYS
1	U	313	GLU
1	U	314	VAL
1	U	315	THR
1	U	317	GLN
1	U	322	THR
1	U	327	LEU
1	U	328	THR
1	U	331	VAL
1	U	345	VAL
1	U	370	THR
1	U	377	GLU
1	U	381	GLU
1	U	383	SER
1	U	388	LEU
1	U	394	LYS
1	U	398	THR
1	U	416	SER
1	U	423	LEU
1	U	428	ASN
1	U	440	SER
1	U	441	THR
1	U	442	ASN
1	U	444	THR
1	U	462	LYS
1	U	472	THR
1	U	481	VAL
1	U	491	THR
1	U	497	LEU
1	U	501	SER
1	U	504	VAL
1	U	507	GLN
1	U	515	LEU
1	U	516	GLN
1	U	523	LEU
1	U	526	THR
1	U	532	GLN

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Mol	Chain	Res	Type
1	U	554	GLU
1	U	556	GLN
1	U	561	VAL
1	U	565	VAL
1	U	575	SER
1	U	577	THR
1	U	578	THR
1	U	589	GLU
1	U	598	GLU
1	U	607	ILE
1	U	635	MET
1	U	655	VAL
1	U	660	THR
1	U	666	GLN
1	U	675	LEU
1	U	676	LYS
1	U	677	LYS
1	U	684	ASN
1	U	686	GLU
1	U	708	GLU
1	U	711	SER
1	U	712	THR
1	U	713	ARG
1	U	721	THR
1	V	209	ASP
1	V	213	ASN
1	V	232	LYS
1	V	233	SER
1	V	238	VAL
1	V	239	LEU
1	V	251	LYS
1	V	254	SER
1	V	255	VAL
1	V	275	PHE
1	V	279	HIS
1	V	285	ARG
1	V	289	ARG
1	V	300	ARG
1	V	303	ARG
1	V	309	ILE
1	V	312	LYS
1	V	313	GLU

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Mol	Chain	Res	Type
1	V	314	VAL
1	V	315	THR
1	V	317	GLN
1	V	322	THR
1	V	327	LEU
1	V	328	THR
1	V	331	VAL
1	V	345	VAL
1	V	370	THR
1	V	377	GLU
1	V	381	GLU
1	V	383	SER
1	V	388	LEU
1	V	394	LYS
1	V	398	THR
1	V	416	SER
1	V	423	LEU
1	V	428	ASN
1	V	440	SER
1	V	441	THR
1	V	442	ASN
1	V	444	THR
1	V	462	LYS
1	V	472	THR
1	V	481	VAL
1	V	491	THR
1	V	497	LEU
1	V	501	SER
1	V	504	VAL
1	V	507	GLN
1	V	515	LEU
1	V	516	GLN
1	V	523	LEU
1	V	526	THR
1	V	532	GLN
1	V	554	GLU
1	V	556	GLN
1	V	561	VAL
1	V	565	VAL
1	V	575	SER
1	V	577	THR
1	V	578	THR

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Mol	Chain	Res	Type
1	V	589	GLU
1	V	597	MET
1	V	598	GLU
1	V	607	ILE
1	V	635	MET
1	V	655	VAL
1	V	660	THR
1	V	666	GLN
1	V	675	LEU
1	V	676	LYS
1	V	677	LYS
1	V	684	ASN
1	V	686	GLU
1	V	708	GLU
1	V	711	SER
1	V	712	THR
1	V	713	ARG
1	V	721	THR
1	W	209	ASP
1	W	213	ASN
1	W	232	LYS
1	W	233	SER
1	W	238	VAL
1	W	239	LEU
1	W	251	LYS
1	W	254	SER
1	W	255	VAL
1	W	275	PHE
1	W	279	HIS
1	W	285	ARG
1	W	289	ARG
1	W	300	ARG
1	W	303	ARG
1	W	309	ILE
1	W	312	LYS
1	W	313	GLU
1	W	314	VAL
1	W	315	THR
1	W	317	GLN
1	W	322	THR
1	W	327	LEU
1	W	328	THR

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Mol	Chain	Res	Type
1	W	331	VAL
1	W	345	VAL
1	W	370	THR
1	W	377	GLU
1	W	381	GLU
1	W	383	SER
1	W	388	LEU
1	W	394	LYS
1	W	398	THR
1	W	416	SER
1	W	423	LEU
1	W	428	ASN
1	W	440	SER
1	W	441	THR
1	W	442	ASN
1	W	444	THR
1	W	462	LYS
1	W	472	THR
1	W	481	VAL
1	W	491	THR
1	W	497	LEU
1	W	501	SER
1	W	504	VAL
1	W	507	GLN
1	W	515	LEU
1	W	516	GLN
1	W	523	LEU
1	W	526	THR
1	W	532	GLN
1	W	554	GLU
1	W	556	GLN
1	W	561	VAL
1	W	565	VAL
1	W	575	SER
1	W	577	THR
1	W	578	THR
1	W	589	GLU
1	W	598	GLU
1	W	607	ILE
1	W	635	MET
1	W	655	VAL
1	W	660	THR

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Mol	Chain	Res	Type
1	W	666	GLN
1	W	675	LEU
1	W	676	LYS
1	W	677	LYS
1	W	684	ASN
1	W	686	GLU
1	W	708	GLU
1	W	711	SER
1	W	712	THR
1	W	713	ARG
1	W	721	THR
1	X	209	ASP
1	X	213	ASN
1	X	232	LYS
1	X	233	SER
1	X	238	VAL
1	X	239	LEU
1	X	251	LYS
1	X	254	SER
1	X	255	VAL
1	X	275	PHE
1	X	279	HIS
1	X	285	ARG
1	X	289	ARG
1	X	300	ARG
1	X	303	ARG
1	X	309	ILE
1	X	312	LYS
1	X	313	GLU
1	X	314	VAL
1	X	315	THR
1	X	317	GLN
1	X	322	THR
1	X	327	LEU
1	X	328	THR
1	X	331	VAL
1	X	345	VAL
1	X	370	THR
1	X	377	GLU
1	X	381	GLU
1	X	383	SER
1	X	388	LEU

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Mol	Chain	Res	Type
1	X	394	LYS
1	X	398	THR
1	X	416	SER
1	X	423	LEU
1	X	428	ASN
1	X	440	SER
1	X	441	THR
1	X	442	ASN
1	X	444	THR
1	X	462	LYS
1	X	472	THR
1	X	481	VAL
1	X	491	THR
1	X	497	LEU
1	X	501	SER
1	X	504	VAL
1	X	507	GLN
1	X	515	LEU
1	X	516	GLN
1	X	523	LEU
1	X	526	THR
1	X	532	GLN
1	X	554	GLU
1	X	556	GLN
1	X	561	VAL
1	X	565	VAL
1	X	575	SER
1	X	577	THR
1	X	578	THR
1	X	589	GLU
1	X	598	GLU
1	X	607	ILE
1	X	635	MET
1	X	655	VAL
1	X	660	THR
1	X	666	GLN
1	X	675	LEU
1	X	676	LYS
1	X	677	LYS
1	X	684	ASN
1	X	686	GLU
1	X	708	GLU

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Mol	Chain	Res	Type
1	X	711	SER
1	X	712	THR
1	X	713	ARG
1	X	721	THR
1	Y	209	ASP
1	Y	213	ASN
1	Y	232	LYS
1	Y	233	SER
1	Y	238	VAL
1	Y	239	LEU
1	Y	251	LYS
1	Y	254	SER
1	Y	255	VAL
1	Y	275	PHE
1	Y	279	HIS
1	Y	285	ARG
1	Y	289	ARG
1	Y	300	ARG
1	Y	303	ARG
1	Y	309	ILE
1	Y	312	LYS
1	Y	313	GLU
1	Y	314	VAL
1	Y	315	THR
1	Y	317	GLN
1	Y	322	THR
1	Y	327	LEU
1	Y	328	THR
1	Y	331	VAL
1	Y	345	VAL
1	Y	370	THR
1	Y	377	GLU
1	Y	381	GLU
1	Y	383	SER
1	Y	388	LEU
1	Y	394	LYS
1	Y	398	THR
1	Y	416	SER
1	Y	423	LEU
1	Y	428	ASN
1	Y	440	SER
1	Y	441	THR

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Mol	Chain	Res	Type
1	Y	442	ASN
1	Y	444	THR
1	Y	462	LYS
1	Y	472	THR
1	Y	481	VAL
1	Y	491	THR
1	Y	497	LEU
1	Y	501	SER
1	Y	504	VAL
1	Y	507	GLN
1	Y	515	LEU
1	Y	516	GLN
1	Y	523	LEU
1	Y	526	THR
1	Y	532	GLN
1	Y	554	GLU
1	Y	556	GLN
1	Y	561	VAL
1	Y	565	VAL
1	Y	575	SER
1	Y	577	THR
1	Y	578	THR
1	Y	589	GLU
1	Y	598	GLU
1	Y	607	ILE
1	Y	635	MET
1	Y	655	VAL
1	Y	660	THR
1	Y	666	GLN
1	Y	675	LEU
1	Y	676	LYS
1	Y	677	LYS
1	Y	684	ASN
1	Y	686	GLU
1	Y	708	GLU
1	Y	711	SER
1	Y	712	THR
1	Y	713	ARG
1	Y	721	THR
1	Z	209	ASP
1	Z	213	ASN
1	Z	232	LYS

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Mol	Chain	Res	Type
1	Z	233	SER
1	Z	238	VAL
1	Z	239	LEU
1	Z	251	LYS
1	Z	254	SER
1	Z	255	VAL
1	Z	275	PHE
1	Z	279	HIS
1	Z	285	ARG
1	Z	289	ARG
1	Z	300	ARG
1	Z	303	ARG
1	Z	309	ILE
1	Z	312	LYS
1	Z	313	GLU
1	Z	314	VAL
1	Z	315	THR
1	Z	317	GLN
1	Z	322	THR
1	Z	327	LEU
1	Z	328	THR
1	Z	331	VAL
1	Z	345	VAL
1	Z	370	THR
1	Z	377	GLU
1	Z	381	GLU
1	Z	383	SER
1	Z	388	LEU
1	Z	394	LYS
1	Z	398	THR
1	Z	416	SER
1	Z	423	LEU
1	Z	428	ASN
1	Z	440	SER
1	Z	441	THR
1	Z	442	ASN
1	Z	444	THR
1	Z	462	LYS
1	Z	472	THR
1	Z	481	VAL
1	Z	491	THR
1	Z	497	LEU

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Mol	Chain	Res	Type
1	Z	501	SER
1	Z	504	VAL
1	Z	507	GLN
1	Z	515	LEU
1	Z	516	GLN
1	Z	523	LEU
1	Z	526	THR
1	Z	532	GLN
1	Z	554	GLU
1	Z	556	GLN
1	Z	561	VAL
1	Z	565	VAL
1	Z	575	SER
1	Z	577	THR
1	Z	578	THR
1	Z	589	GLU
1	Z	598	GLU
1	Z	607	ILE
1	Z	635	MET
1	Z	655	VAL
1	Z	660	THR
1	Z	666	GLN
1	Z	675	LEU
1	Z	676	LYS
1	Z	677	LYS
1	Z	684	ASN
1	Z	686	GLU
1	Z	708	GLU
1	Z	711	SER
1	Z	712	THR
1	Z	713	ARG
1	Z	721	THR
1	a	209	ASP
1	a	213	ASN
1	a	232	LYS
1	a	233	SER
1	a	238	VAL
1	a	239	LEU
1	a	251	LYS
1	a	254	SER
1	a	255	VAL
1	a	275	PHE

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Mol	Chain	Res	Type
1	a	279	HIS
1	a	285	ARG
1	a	289	ARG
1	a	300	ARG
1	a	303	ARG
1	a	309	ILE
1	a	312	LYS
1	a	313	GLU
1	a	314	VAL
1	a	315	THR
1	a	317	GLN
1	a	322	THR
1	a	327	LEU
1	a	328	THR
1	a	331	VAL
1	a	345	VAL
1	a	370	THR
1	a	377	GLU
1	a	381	GLU
1	a	383	SER
1	a	388	LEU
1	a	394	LYS
1	a	398	THR
1	a	416	SER
1	a	423	LEU
1	a	428	ASN
1	a	440	SER
1	a	441	THR
1	a	442	ASN
1	a	444	THR
1	a	462	LYS
1	a	472	THR
1	a	481	VAL
1	a	491	THR
1	a	497	LEU
1	a	501	SER
1	a	504	VAL
1	a	507	GLN
1	a	515	LEU
1	a	516	GLN
1	a	523	LEU
1	a	526	THR

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Mol	Chain	Res	Type
1	a	532	GLN
1	a	554	GLU
1	a	556	GLN
1	a	561	VAL
1	a	565	VAL
1	a	575	SER
1	a	577	THR
1	a	578	THR
1	a	589	GLU
1	a	597	MET
1	a	598	GLU
1	a	607	ILE
1	a	635	MET
1	a	655	VAL
1	a	660	THR
1	a	666	GLN
1	a	675	LEU
1	a	676	LYS
1	a	677	LYS
1	a	684	ASN
1	a	686	GLU
1	a	708	GLU
1	a	711	SER
1	a	712	THR
1	a	713	ARG
1	a	721	THR
1	b	209	ASP
1	b	213	ASN
1	b	232	LYS
1	b	233	SER
1	b	238	VAL
1	b	239	LEU
1	b	251	LYS
1	b	254	SER
1	b	255	VAL
1	b	275	PHE
1	b	279	HIS
1	b	285	ARG
1	b	289	ARG
1	b	300	ARG
1	b	303	ARG
1	b	309	ILE

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Mol	Chain	Res	Type
1	b	312	LYS
1	b	313	GLU
1	b	314	VAL
1	b	315	THR
1	b	317	GLN
1	b	322	THR
1	b	327	LEU
1	b	328	THR
1	b	331	VAL
1	b	345	VAL
1	b	370	THR
1	b	377	GLU
1	b	381	GLU
1	b	383	SER
1	b	388	LEU
1	b	394	LYS
1	b	398	THR
1	b	416	SER
1	b	423	LEU
1	b	428	ASN
1	b	440	SER
1	b	441	THR
1	b	442	ASN
1	b	444	THR
1	b	462	LYS
1	b	472	THR
1	b	481	VAL
1	b	491	THR
1	b	497	LEU
1	b	501	SER
1	b	504	VAL
1	b	507	GLN
1	b	515	LEU
1	b	516	GLN
1	b	523	LEU
1	b	526	THR
1	b	532	GLN
1	b	554	GLU
1	b	556	GLN
1	b	561	VAL
1	b	565	VAL
1	b	575	SER

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Mol	Chain	Res	Type
1	b	577	THR
1	b	578	THR
1	b	589	GLU
1	b	597	MET
1	b	598	GLU
1	b	607	ILE
1	b	635	MET
1	b	655	VAL
1	b	660	THR
1	b	666	GLN
1	b	675	LEU
1	b	676	LYS
1	b	677	LYS
1	b	684	ASN
1	b	686	GLU
1	b	708	GLU
1	b	711	SER
1	b	712	THR
1	b	713	ARG
1	b	721	THR
1	c	209	ASP
1	c	213	ASN
1	c	232	LYS
1	c	233	SER
1	c	238	VAL
1	c	239	LEU
1	c	251	LYS
1	c	254	SER
1	c	255	VAL
1	c	275	PHE
1	c	279	HIS
1	c	285	ARG
1	c	289	ARG
1	c	300	ARG
1	c	303	ARG
1	c	309	ILE
1	c	312	LYS
1	c	313	GLU
1	c	314	VAL
1	c	315	THR
1	c	317	GLN
1	c	322	THR

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Mol	Chain	Res	Type
1	c	327	LEU
1	c	328	THR
1	c	331	VAL
1	c	345	VAL
1	c	370	THR
1	c	377	GLU
1	c	381	GLU
1	c	383	SER
1	c	388	LEU
1	c	394	LYS
1	c	398	THR
1	c	416	SER
1	c	423	LEU
1	c	428	ASN
1	c	440	SER
1	c	441	THR
1	c	442	ASN
1	c	444	THR
1	c	462	LYS
1	c	472	THR
1	c	481	VAL
1	c	491	THR
1	c	497	LEU
1	c	501	SER
1	c	504	VAL
1	c	507	GLN
1	c	515	LEU
1	c	516	GLN
1	c	523	LEU
1	c	526	THR
1	c	532	GLN
1	c	554	GLU
1	c	556	GLN
1	c	561	VAL
1	c	565	VAL
1	c	575	SER
1	c	577	THR
1	c	578	THR
1	c	589	GLU
1	c	598	GLU
1	c	607	ILE
1	c	635	MET

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Mol	Chain	Res	Type
1	c	655	VAL
1	c	660	THR
1	c	666	GLN
1	c	675	LEU
1	c	676	LYS
1	c	677	LYS
1	c	684	ASN
1	c	686	GLU
1	c	708	GLU
1	c	711	SER
1	c	712	THR
1	c	713	ARG
1	c	721	THR
1	d	209	ASP
1	d	213	ASN
1	d	232	LYS
1	d	233	SER
1	d	238	VAL
1	d	239	LEU
1	d	251	LYS
1	d	254	SER
1	d	255	VAL
1	d	275	PHE
1	d	279	HIS
1	d	285	ARG
1	d	289	ARG
1	d	300	ARG
1	d	303	ARG
1	d	309	ILE
1	d	312	LYS
1	d	313	GLU
1	d	314	VAL
1	d	315	THR
1	d	317	GLN
1	d	322	THR
1	d	327	LEU
1	d	328	THR
1	d	331	VAL
1	d	345	VAL
1	d	370	THR
1	d	377	GLU
1	d	381	GLU

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Mol	Chain	Res	Type
1	d	383	SER
1	d	388	LEU
1	d	394	LYS
1	d	398	THR
1	d	416	SER
1	d	423	LEU
1	d	428	ASN
1	d	440	SER
1	d	441	THR
1	d	442	ASN
1	d	444	THR
1	d	462	LYS
1	d	472	THR
1	d	481	VAL
1	d	491	THR
1	d	497	LEU
1	d	501	SER
1	d	504	VAL
1	d	507	GLN
1	d	515	LEU
1	d	516	GLN
1	d	523	LEU
1	d	526	THR
1	d	532	GLN
1	d	554	GLU
1	d	556	GLN
1	d	561	VAL
1	d	565	VAL
1	d	575	SER
1	d	577	THR
1	d	578	THR
1	d	589	GLU
1	d	597	MET
1	d	598	GLU
1	d	607	ILE
1	d	635	MET
1	d	655	VAL
1	d	660	THR
1	d	666	GLN
1	d	675	LEU
1	d	676	LYS
1	d	677	LYS

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Mol	Chain	Res	Type
1	d	684	ASN
1	d	686	GLU
1	d	708	GLU
1	d	711	SER
1	d	712	THR
1	d	713	ARG
1	d	721	THR
1	e	209	ASP
1	e	213	ASN
1	e	232	LYS
1	e	233	SER
1	e	238	VAL
1	e	239	LEU
1	e	251	LYS
1	e	254	SER
1	e	255	VAL
1	e	275	PHE
1	e	279	HIS
1	e	285	ARG
1	e	289	ARG
1	e	300	ARG
1	e	303	ARG
1	e	309	ILE
1	e	312	LYS
1	e	313	GLU
1	e	314	VAL
1	e	315	THR
1	e	317	GLN
1	e	322	THR
1	e	327	LEU
1	e	328	THR
1	e	331	VAL
1	e	345	VAL
1	e	370	THR
1	e	377	GLU
1	e	381	GLU
1	e	383	SER
1	e	388	LEU
1	e	394	LYS
1	e	398	THR
1	e	416	SER
1	e	423	LEU

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Mol	Chain	Res	Type
1	e	428	ASN
1	e	440	SER
1	e	441	THR
1	e	442	ASN
1	e	444	THR
1	e	462	LYS
1	e	472	THR
1	e	481	VAL
1	e	491	THR
1	e	497	LEU
1	e	501	SER
1	e	504	VAL
1	e	507	GLN
1	e	515	LEU
1	e	516	GLN
1	e	523	LEU
1	e	526	THR
1	e	532	GLN
1	e	554	GLU
1	e	556	GLN
1	e	561	VAL
1	e	565	VAL
1	e	575	SER
1	e	577	THR
1	e	578	THR
1	e	589	GLU
1	e	597	MET
1	e	598	GLU
1	e	607	ILE
1	e	635	MET
1	e	655	VAL
1	e	660	THR
1	e	666	GLN
1	e	675	LEU
1	e	676	LYS
1	e	677	LYS
1	e	684	ASN
1	e	686	GLU
1	e	708	GLU
1	e	711	SER
1	e	712	THR
1	e	713	ARG

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Mol	Chain	Res	Type
1	e	721	THR
1	f	209	ASP
1	f	213	ASN
1	f	232	LYS
1	f	233	SER
1	f	238	VAL
1	f	239	LEU
1	f	251	LYS
1	f	254	SER
1	f	255	VAL
1	f	275	PHE
1	f	279	HIS
1	f	285	ARG
1	f	289	ARG
1	f	300	ARG
1	f	303	ARG
1	f	309	ILE
1	f	312	LYS
1	f	313	GLU
1	f	314	VAL
1	f	315	THR
1	f	317	GLN
1	f	322	THR
1	f	327	LEU
1	f	328	THR
1	f	331	VAL
1	f	345	VAL
1	f	370	THR
1	f	377	GLU
1	f	381	GLU
1	f	383	SER
1	f	388	LEU
1	f	394	LYS
1	f	398	THR
1	f	416	SER
1	f	423	LEU
1	f	428	ASN
1	f	440	SER
1	f	441	THR
1	f	442	ASN
1	f	444	THR
1	f	462	LYS

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Mol	Chain	Res	Type
1	f	472	THR
1	f	481	VAL
1	f	491	THR
1	f	497	LEU
1	f	501	SER
1	f	504	VAL
1	f	507	GLN
1	f	515	LEU
1	f	516	GLN
1	f	523	LEU
1	f	526	THR
1	f	532	GLN
1	f	554	GLU
1	f	556	GLN
1	f	561	VAL
1	f	565	VAL
1	f	575	SER
1	f	577	THR
1	f	578	THR
1	f	589	GLU
1	f	597	MET
1	f	598	GLU
1	f	607	ILE
1	f	635	MET
1	f	655	VAL
1	f	660	THR
1	f	666	GLN
1	f	675	LEU
1	f	676	LYS
1	f	677	LYS
1	f	684	ASN
1	f	686	GLU
1	f	708	GLU
1	f	711	SER
1	f	712	THR
1	f	713	ARG
1	f	721	THR
1	g	209	ASP
1	g	213	ASN
1	g	232	LYS
1	g	233	SER
1	g	238	VAL

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Mol	Chain	Res	Type
1	g	239	LEU
1	g	251	LYS
1	g	254	SER
1	g	255	VAL
1	g	275	PHE
1	g	279	HIS
1	g	285	ARG
1	g	289	ARG
1	g	300	ARG
1	g	303	ARG
1	g	309	ILE
1	g	312	LYS
1	g	313	GLU
1	g	314	VAL
1	g	315	THR
1	g	317	GLN
1	g	322	THR
1	g	327	LEU
1	g	328	THR
1	g	331	VAL
1	g	345	VAL
1	g	370	THR
1	g	377	GLU
1	g	381	GLU
1	g	383	SER
1	g	388	LEU
1	g	394	LYS
1	g	398	THR
1	g	416	SER
1	g	423	LEU
1	g	428	ASN
1	g	440	SER
1	g	441	THR
1	g	442	ASN
1	g	444	THR
1	g	462	LYS
1	g	472	THR
1	g	481	VAL
1	g	491	THR
1	g	497	LEU
1	g	501	SER
1	g	504	VAL

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Mol	Chain	Res	Type
1	g	507	GLN
1	g	515	LEU
1	g	516	GLN
1	g	523	LEU
1	g	526	THR
1	g	532	GLN
1	g	554	GLU
1	g	556	GLN
1	g	561	VAL
1	g	565	VAL
1	g	575	SER
1	g	577	THR
1	g	578	THR
1	g	589	GLU
1	g	597	MET
1	g	598	GLU
1	g	607	ILE
1	g	635	MET
1	g	655	VAL
1	g	660	THR
1	g	666	GLN
1	g	675	LEU
1	g	676	LYS
1	g	677	LYS
1	g	684	ASN
1	g	686	GLU
1	g	708	GLU
1	g	711	SER
1	g	712	THR
1	g	713	ARG
1	g	721	THR
1	h	209	ASP
1	h	213	ASN
1	h	232	LYS
1	h	233	SER
1	h	238	VAL
1	h	239	LEU
1	h	251	LYS
1	h	254	SER
1	h	255	VAL
1	h	275	PHE
1	h	279	HIS

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Mol	Chain	Res	Type
1	h	285	ARG
1	h	289	ARG
1	h	300	ARG
1	h	303	ARG
1	h	309	ILE
1	h	312	LYS
1	h	313	GLU
1	h	314	VAL
1	h	315	THR
1	h	317	GLN
1	h	322	THR
1	h	327	LEU
1	h	328	THR
1	h	331	VAL
1	h	345	VAL
1	h	370	THR
1	h	377	GLU
1	h	381	GLU
1	h	383	SER
1	h	388	LEU
1	h	394	LYS
1	h	398	THR
1	h	416	SER
1	h	423	LEU
1	h	428	ASN
1	h	440	SER
1	h	441	THR
1	h	442	ASN
1	h	444	THR
1	h	462	LYS
1	h	472	THR
1	h	481	VAL
1	h	491	THR
1	h	497	LEU
1	h	501	SER
1	h	504	VAL
1	h	507	GLN
1	h	515	LEU
1	h	516	GLN
1	h	523	LEU
1	h	526	THR
1	h	532	GLN

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Mol	Chain	Res	Type
1	h	554	GLU
1	h	556	GLN
1	h	561	VAL
1	h	565	VAL
1	h	575	SER
1	h	577	THR
1	h	578	THR
1	h	589	GLU
1	h	598	GLU
1	h	607	ILE
1	h	635	MET
1	h	655	VAL
1	h	660	THR
1	h	666	GLN
1	h	675	LEU
1	h	676	LYS
1	h	677	LYS
1	h	684	ASN
1	h	686	GLU
1	h	708	GLU
1	h	711	SER
1	h	712	THR
1	h	713	ARG
1	h	721	THR
1	i	209	ASP
1	i	213	ASN
1	i	232	LYS
1	i	233	SER
1	i	238	VAL
1	i	239	LEU
1	i	251	LYS
1	i	254	SER
1	i	255	VAL
1	i	275	PHE
1	i	279	HIS
1	i	285	ARG
1	i	289	ARG
1	i	300	ARG
1	i	303	ARG
1	i	309	ILE
1	i	312	LYS
1	i	313	GLU

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Mol	Chain	Res	Type
1	i	314	VAL
1	i	315	THR
1	i	317	GLN
1	i	322	THR
1	i	327	LEU
1	i	328	THR
1	i	331	VAL
1	i	345	VAL
1	i	370	THR
1	i	377	GLU
1	i	381	GLU
1	i	383	SER
1	i	388	LEU
1	i	394	LYS
1	i	398	THR
1	i	416	SER
1	i	423	LEU
1	i	428	ASN
1	i	440	SER
1	i	441	THR
1	i	442	ASN
1	i	444	THR
1	i	462	LYS
1	i	472	THR
1	i	481	VAL
1	i	491	THR
1	i	497	LEU
1	i	501	SER
1	i	504	VAL
1	i	507	GLN
1	i	515	LEU
1	i	516	GLN
1	i	523	LEU
1	i	526	THR
1	i	532	GLN
1	i	554	GLU
1	i	556	GLN
1	i	561	VAL
1	i	565	VAL
1	i	575	SER
1	i	577	THR
1	i	578	THR

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Mol	Chain	Res	Type
1	i	589	GLU
1	i	597	MET
1	i	598	GLU
1	i	607	ILE
1	i	635	MET
1	i	655	VAL
1	i	660	THR
1	i	666	GLN
1	i	675	LEU
1	i	676	LYS
1	i	677	LYS
1	i	684	ASN
1	i	686	GLU
1	i	708	GLU
1	i	711	SER
1	i	712	THR
1	i	713	ARG
1	i	721	THR
1	j	209	ASP
1	j	213	ASN
1	j	232	LYS
1	j	233	SER
1	j	238	VAL
1	j	239	LEU
1	j	251	LYS
1	j	254	SER
1	j	255	VAL
1	j	275	PHE
1	j	279	HIS
1	j	285	ARG
1	j	289	ARG
1	j	300	ARG
1	j	303	ARG
1	j	309	ILE
1	j	312	LYS
1	j	313	GLU
1	j	314	VAL
1	j	315	THR
1	j	317	GLN
1	j	322	THR
1	j	327	LEU
1	j	328	THR

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Mol	Chain	Res	Type
1	j	331	VAL
1	j	345	VAL
1	j	370	THR
1	j	377	GLU
1	j	381	GLU
1	j	383	SER
1	j	388	LEU
1	j	394	LYS
1	j	398	THR
1	j	416	SER
1	j	423	LEU
1	j	428	ASN
1	j	440	SER
1	j	441	THR
1	j	442	ASN
1	j	444	THR
1	j	462	LYS
1	j	472	THR
1	j	481	VAL
1	j	491	THR
1	j	497	LEU
1	j	501	SER
1	j	504	VAL
1	j	507	GLN
1	j	515	LEU
1	j	516	GLN
1	j	523	LEU
1	j	526	THR
1	j	532	GLN
1	j	554	GLU
1	j	556	GLN
1	j	561	VAL
1	j	565	VAL
1	j	575	SER
1	j	577	THR
1	j	578	THR
1	j	589	GLU
1	j	598	GLU
1	j	607	ILE
1	j	635	MET
1	j	655	VAL
1	j	660	THR

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Mol	Chain	Res	Type
1	j	666	GLN
1	j	675	LEU
1	j	676	LYS
1	j	677	LYS
1	j	684	ASN
1	j	686	GLU
1	j	708	GLU
1	j	711	SER
1	j	712	THR
1	j	713	ARG
1	j	721	THR
1	k	209	ASP
1	k	213	ASN
1	k	232	LYS
1	k	233	SER
1	k	238	VAL
1	k	239	LEU
1	k	251	LYS
1	k	254	SER
1	k	255	VAL
1	k	275	PHE
1	k	279	HIS
1	k	285	ARG
1	k	289	ARG
1	k	300	ARG
1	k	303	ARG
1	k	309	ILE
1	k	312	LYS
1	k	313	GLU
1	k	314	VAL
1	k	315	THR
1	k	317	GLN
1	k	322	THR
1	k	327	LEU
1	k	328	THR
1	k	331	VAL
1	k	345	VAL
1	k	370	THR
1	k	377	GLU
1	k	381	GLU
1	k	383	SER
1	k	388	LEU

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Mol	Chain	Res	Type
1	k	394	LYS
1	k	398	THR
1	k	416	SER
1	k	423	LEU
1	k	428	ASN
1	k	440	SER
1	k	441	THR
1	k	442	ASN
1	k	444	THR
1	k	462	LYS
1	k	472	THR
1	k	481	VAL
1	k	491	THR
1	k	497	LEU
1	k	501	SER
1	k	504	VAL
1	k	507	GLN
1	k	515	LEU
1	k	516	GLN
1	k	523	LEU
1	k	526	THR
1	k	532	GLN
1	k	554	GLU
1	k	556	GLN
1	k	561	VAL
1	k	565	VAL
1	k	575	SER
1	k	577	THR
1	k	578	THR
1	k	589	GLU
1	k	597	MET
1	k	598	GLU
1	k	607	ILE
1	k	635	MET
1	k	655	VAL
1	k	660	THR
1	k	666	GLN
1	k	675	LEU
1	k	676	LYS
1	k	677	LYS
1	k	684	ASN
1	k	686	GLU

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Mol	Chain	Res	Type
1	k	708	GLU
1	k	711	SER
1	k	712	THR
1	k	713	ARG
1	k	721	THR
1	l	209	ASP
1	l	213	ASN
1	l	232	LYS
1	l	233	SER
1	l	238	VAL
1	l	239	LEU
1	l	251	LYS
1	l	254	SER
1	l	255	VAL
1	l	275	PHE
1	l	279	HIS
1	l	285	ARG
1	l	289	ARG
1	l	300	ARG
1	l	303	ARG
1	l	309	ILE
1	l	312	LYS
1	l	313	GLU
1	l	314	VAL
1	l	315	THR
1	l	317	GLN
1	l	322	THR
1	l	327	LEU
1	l	328	THR
1	l	331	VAL
1	l	345	VAL
1	l	370	THR
1	l	377	GLU
1	l	381	GLU
1	l	383	SER
1	l	388	LEU
1	l	394	LYS
1	l	398	THR
1	l	416	SER
1	l	423	LEU
1	l	428	ASN
1	l	440	SER

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Mol	Chain	Res	Type
1	l	441	THR
1	l	442	ASN
1	l	444	THR
1	l	462	LYS
1	l	472	THR
1	l	481	VAL
1	l	491	THR
1	l	497	LEU
1	l	501	SER
1	l	504	VAL
1	l	507	GLN
1	l	515	LEU
1	l	516	GLN
1	l	523	LEU
1	l	526	THR
1	l	532	GLN
1	l	554	GLU
1	l	556	GLN
1	l	561	VAL
1	l	565	VAL
1	l	575	SER
1	l	577	THR
1	l	578	THR
1	l	589	GLU
1	l	598	GLU
1	l	607	ILE
1	l	635	MET
1	l	655	VAL
1	l	660	THR
1	l	666	GLN
1	l	675	LEU
1	l	676	LYS
1	l	677	LYS
1	l	684	ASN
1	l	686	GLU
1	l	708	GLU
1	l	711	SER
1	l	712	THR
1	l	713	ARG
1	l	721	THR
1	m	209	ASP
1	m	213	ASN

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Mol	Chain	Res	Type
1	m	232	LYS
1	m	233	SER
1	m	238	VAL
1	m	239	LEU
1	m	251	LYS
1	m	254	SER
1	m	255	VAL
1	m	275	PHE
1	m	279	HIS
1	m	285	ARG
1	m	289	ARG
1	m	300	ARG
1	m	303	ARG
1	m	309	ILE
1	m	312	LYS
1	m	313	GLU
1	m	314	VAL
1	m	315	THR
1	m	317	GLN
1	m	322	THR
1	m	327	LEU
1	m	328	THR
1	m	331	VAL
1	m	345	VAL
1	m	370	THR
1	m	377	GLU
1	m	381	GLU
1	m	383	SER
1	m	388	LEU
1	m	394	LYS
1	m	398	THR
1	m	416	SER
1	m	423	LEU
1	m	428	ASN
1	m	440	SER
1	m	441	THR
1	m	442	ASN
1	m	444	THR
1	m	462	LYS
1	m	472	THR
1	m	481	VAL
1	m	491	THR

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Mol	Chain	Res	Type
1	m	497	LEU
1	m	501	SER
1	m	504	VAL
1	m	507	GLN
1	m	515	LEU
1	m	516	GLN
1	m	523	LEU
1	m	526	THR
1	m	532	GLN
1	m	554	GLU
1	m	556	GLN
1	m	561	VAL
1	m	565	VAL
1	m	575	SER
1	m	577	THR
1	m	578	THR
1	m	589	GLU
1	m	598	GLU
1	m	607	ILE
1	m	635	MET
1	m	655	VAL
1	m	660	THR
1	m	666	GLN
1	m	675	LEU
1	m	676	LYS
1	m	677	LYS
1	m	684	ASN
1	m	686	GLU
1	m	708	GLU
1	m	711	SER
1	m	712	THR
1	m	713	ARG
1	m	721	THR
1	n	209	ASP
1	n	213	ASN
1	n	232	LYS
1	n	233	SER
1	n	238	VAL
1	n	239	LEU
1	n	251	LYS
1	n	254	SER
1	n	255	VAL

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Mol	Chain	Res	Type
1	n	275	PHE
1	n	279	HIS
1	n	285	ARG
1	n	289	ARG
1	n	300	ARG
1	n	303	ARG
1	n	309	ILE
1	n	312	LYS
1	n	313	GLU
1	n	314	VAL
1	n	315	THR
1	n	317	GLN
1	n	322	THR
1	n	327	LEU
1	n	328	THR
1	n	331	VAL
1	n	345	VAL
1	n	370	THR
1	n	377	GLU
1	n	381	GLU
1	n	383	SER
1	n	388	LEU
1	n	394	LYS
1	n	398	THR
1	n	416	SER
1	n	423	LEU
1	n	428	ASN
1	n	440	SER
1	n	441	THR
1	n	442	ASN
1	n	444	THR
1	n	462	LYS
1	n	472	THR
1	n	481	VAL
1	n	491	THR
1	n	497	LEU
1	n	501	SER
1	n	504	VAL
1	n	507	GLN
1	n	515	LEU
1	n	516	GLN
1	n	523	LEU

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Mol	Chain	Res	Type
1	n	526	THR
1	n	532	GLN
1	n	554	GLU
1	n	556	GLN
1	n	561	VAL
1	n	565	VAL
1	n	575	SER
1	n	577	THR
1	n	578	THR
1	n	589	GLU
1	n	598	GLU
1	n	607	ILE
1	n	635	MET
1	n	655	VAL
1	n	660	THR
1	n	666	GLN
1	n	675	LEU
1	n	676	LYS
1	n	677	LYS
1	n	684	ASN
1	n	686	GLU
1	n	708	GLU
1	n	711	SER
1	n	712	THR
1	n	713	ARG
1	n	721	THR
1	o	209	ASP
1	o	213	ASN
1	o	232	LYS
1	o	233	SER
1	o	238	VAL
1	o	239	LEU
1	o	251	LYS
1	o	254	SER
1	o	255	VAL
1	o	275	PHE
1	o	279	HIS
1	o	285	ARG
1	o	289	ARG
1	o	300	ARG
1	o	303	ARG
1	o	309	ILE

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Mol	Chain	Res	Type
1	o	312	LYS
1	o	313	GLU
1	o	314	VAL
1	o	315	THR
1	o	317	GLN
1	o	322	THR
1	o	327	LEU
1	o	328	THR
1	o	331	VAL
1	o	345	VAL
1	o	370	THR
1	o	377	GLU
1	o	381	GLU
1	o	383	SER
1	o	388	LEU
1	o	394	LYS
1	o	398	THR
1	o	416	SER
1	o	423	LEU
1	o	428	ASN
1	o	440	SER
1	o	441	THR
1	o	442	ASN
1	o	444	THR
1	o	462	LYS
1	o	472	THR
1	o	481	VAL
1	o	491	THR
1	o	497	LEU
1	o	501	SER
1	o	504	VAL
1	o	507	GLN
1	o	515	LEU
1	o	516	GLN
1	o	523	LEU
1	o	526	THR
1	o	532	GLN
1	o	554	GLU
1	o	556	GLN
1	o	561	VAL
1	o	565	VAL
1	o	575	SER

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Mol	Chain	Res	Type
1	o	577	THR
1	o	578	THR
1	o	589	GLU
1	o	597	MET
1	o	598	GLU
1	o	607	ILE
1	o	635	MET
1	o	655	VAL
1	o	660	THR
1	o	666	GLN
1	o	675	LEU
1	o	676	LYS
1	o	677	LYS
1	o	684	ASN
1	o	686	GLU
1	o	708	GLU
1	o	711	SER
1	o	712	THR
1	o	713	ARG
1	o	721	THR
1	p	209	ASP
1	p	213	ASN
1	p	232	LYS
1	p	233	SER
1	p	238	VAL
1	p	239	LEU
1	p	251	LYS
1	p	254	SER
1	p	255	VAL
1	p	275	PHE
1	p	279	HIS
1	p	285	ARG
1	p	289	ARG
1	p	300	ARG
1	p	303	ARG
1	p	309	ILE
1	p	312	LYS
1	p	313	GLU
1	p	314	VAL
1	p	315	THR
1	p	317	GLN
1	p	322	THR

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Mol	Chain	Res	Type
1	p	327	LEU
1	p	328	THR
1	p	331	VAL
1	p	345	VAL
1	p	370	THR
1	p	377	GLU
1	p	381	GLU
1	p	383	SER
1	p	388	LEU
1	p	394	LYS
1	p	398	THR
1	p	416	SER
1	p	423	LEU
1	p	428	ASN
1	p	440	SER
1	p	441	THR
1	p	442	ASN
1	p	444	THR
1	p	462	LYS
1	p	472	THR
1	p	481	VAL
1	p	491	THR
1	p	497	LEU
1	p	501	SER
1	p	504	VAL
1	p	507	GLN
1	p	515	LEU
1	p	516	GLN
1	p	523	LEU
1	p	526	THR
1	p	532	GLN
1	p	554	GLU
1	p	556	GLN
1	p	561	VAL
1	p	565	VAL
1	p	575	SER
1	p	577	THR
1	p	578	THR
1	p	589	GLU
1	p	598	GLU
1	p	607	ILE
1	p	635	MET

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Mol	Chain	Res	Type
1	p	655	VAL
1	p	660	THR
1	p	666	GLN
1	p	675	LEU
1	p	676	LYS
1	p	677	LYS
1	p	684	ASN
1	p	686	GLU
1	p	708	GLU
1	p	711	SER
1	p	712	THR
1	p	713	ARG
1	p	721	THR
1	q	209	ASP
1	q	213	ASN
1	q	232	LYS
1	q	233	SER
1	q	238	VAL
1	q	239	LEU
1	q	251	LYS
1	q	254	SER
1	q	255	VAL
1	q	275	PHE
1	q	279	HIS
1	q	285	ARG
1	q	289	ARG
1	q	300	ARG
1	q	303	ARG
1	q	309	ILE
1	q	312	LYS
1	q	313	GLU
1	q	314	VAL
1	q	315	THR
1	q	317	GLN
1	q	322	THR
1	q	327	LEU
1	q	328	THR
1	q	331	VAL
1	q	345	VAL
1	q	370	THR
1	q	377	GLU
1	q	381	GLU

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Mol	Chain	Res	Type
1	q	383	SER
1	q	388	LEU
1	q	394	LYS
1	q	398	THR
1	q	416	SER
1	q	423	LEU
1	q	428	ASN
1	q	440	SER
1	q	441	THR
1	q	442	ASN
1	q	444	THR
1	q	462	LYS
1	q	472	THR
1	q	481	VAL
1	q	491	THR
1	q	497	LEU
1	q	501	SER
1	q	504	VAL
1	q	507	GLN
1	q	515	LEU
1	q	516	GLN
1	q	523	LEU
1	q	526	THR
1	q	532	GLN
1	q	554	GLU
1	q	556	GLN
1	q	561	VAL
1	q	565	VAL
1	q	575	SER
1	q	577	THR
1	q	578	THR
1	q	589	GLU
1	q	597	MET
1	q	598	GLU
1	q	607	ILE
1	q	635	MET
1	q	655	VAL
1	q	660	THR
1	q	666	GLN
1	q	675	LEU
1	q	676	LYS
1	q	677	LYS

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Mol	Chain	Res	Type
1	q	684	ASN
1	q	686	GLU
1	q	708	GLU
1	q	711	SER
1	q	712	THR
1	q	713	ARG
1	q	721	THR
1	r	209	ASP
1	r	213	ASN
1	r	232	LYS
1	r	233	SER
1	r	238	VAL
1	r	239	LEU
1	r	251	LYS
1	r	254	SER
1	r	255	VAL
1	r	275	PHE
1	r	279	HIS
1	r	285	ARG
1	r	289	ARG
1	r	300	ARG
1	r	303	ARG
1	r	309	ILE
1	r	312	LYS
1	r	313	GLU
1	r	314	VAL
1	r	315	THR
1	r	317	GLN
1	r	322	THR
1	r	327	LEU
1	r	328	THR
1	r	331	VAL
1	r	345	VAL
1	r	370	THR
1	r	377	GLU
1	r	381	GLU
1	r	383	SER
1	r	388	LEU
1	r	394	LYS
1	r	398	THR
1	r	416	SER
1	r	423	LEU

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Mol	Chain	Res	Type
1	r	428	ASN
1	r	440	SER
1	r	441	THR
1	r	442	ASN
1	r	444	THR
1	r	462	LYS
1	r	472	THR
1	r	481	VAL
1	r	491	THR
1	r	497	LEU
1	r	501	SER
1	r	504	VAL
1	r	507	GLN
1	r	515	LEU
1	r	516	GLN
1	r	523	LEU
1	r	526	THR
1	r	532	GLN
1	r	554	GLU
1	r	556	GLN
1	r	561	VAL
1	r	565	VAL
1	r	575	SER
1	r	577	THR
1	r	578	THR
1	r	589	GLU
1	r	597	MET
1	r	598	GLU
1	r	607	ILE
1	r	635	MET
1	r	655	VAL
1	r	660	THR
1	r	666	GLN
1	r	675	LEU
1	r	676	LYS
1	r	677	LYS
1	r	684	ASN
1	r	686	GLU
1	r	708	GLU
1	r	711	SER
1	r	712	THR
1	r	713	ARG

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Mol	Chain	Res	Type
1	r	721	THR
1	s	209	ASP
1	s	213	ASN
1	s	232	LYS
1	s	233	SER
1	s	238	VAL
1	s	239	LEU
1	s	251	LYS
1	s	254	SER
1	s	255	VAL
1	s	275	PHE
1	s	279	HIS
1	s	285	ARG
1	s	289	ARG
1	s	300	ARG
1	s	303	ARG
1	s	309	ILE
1	s	312	LYS
1	s	313	GLU
1	s	314	VAL
1	s	315	THR
1	s	317	GLN
1	s	322	THR
1	s	327	LEU
1	s	328	THR
1	s	331	VAL
1	s	345	VAL
1	s	370	THR
1	s	377	GLU
1	s	381	GLU
1	s	383	SER
1	s	388	LEU
1	s	394	LYS
1	s	398	THR
1	s	416	SER
1	s	423	LEU
1	s	428	ASN
1	s	440	SER
1	s	441	THR
1	s	442	ASN
1	s	444	THR
1	s	462	LYS

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Mol	Chain	Res	Type
1	s	472	THR
1	s	481	VAL
1	s	491	THR
1	s	497	LEU
1	s	501	SER
1	s	504	VAL
1	s	507	GLN
1	s	515	LEU
1	s	516	GLN
1	s	523	LEU
1	s	526	THR
1	s	532	GLN
1	s	554	GLU
1	s	556	GLN
1	s	561	VAL
1	s	565	VAL
1	s	575	SER
1	s	577	THR
1	s	578	THR
1	s	589	GLU
1	s	597	MET
1	s	598	GLU
1	s	607	ILE
1	s	635	MET
1	s	655	VAL
1	s	660	THR
1	s	666	GLN
1	s	675	LEU
1	s	676	LYS
1	s	677	LYS
1	s	684	ASN
1	s	686	GLU
1	s	708	GLU
1	s	711	SER
1	s	712	THR
1	s	713	ARG
1	s	721	THR
1	t	209	ASP
1	t	213	ASN
1	t	232	LYS
1	t	233	SER
1	t	238	VAL

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Mol	Chain	Res	Type
1	t	239	LEU
1	t	251	LYS
1	t	254	SER
1	t	255	VAL
1	t	275	PHE
1	t	279	HIS
1	t	285	ARG
1	t	289	ARG
1	t	300	ARG
1	t	303	ARG
1	t	309	ILE
1	t	312	LYS
1	t	313	GLU
1	t	314	VAL
1	t	315	THR
1	t	317	GLN
1	t	322	THR
1	t	327	LEU
1	t	328	THR
1	t	331	VAL
1	t	345	VAL
1	t	370	THR
1	t	377	GLU
1	t	381	GLU
1	t	383	SER
1	t	388	LEU
1	t	394	LYS
1	t	398	THR
1	t	416	SER
1	t	423	LEU
1	t	428	ASN
1	t	440	SER
1	t	441	THR
1	t	442	ASN
1	t	444	THR
1	t	462	LYS
1	t	472	THR
1	t	481	VAL
1	t	491	THR
1	t	497	LEU
1	t	501	SER
1	t	504	VAL

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Mol	Chain	Res	Type
1	t	507	GLN
1	t	515	LEU
1	t	516	GLN
1	t	523	LEU
1	t	526	THR
1	t	532	GLN
1	t	554	GLU
1	t	556	GLN
1	t	561	VAL
1	t	565	VAL
1	t	575	SER
1	t	577	THR
1	t	578	THR
1	t	589	GLU
1	t	598	GLU
1	t	607	ILE
1	t	635	MET
1	t	655	VAL
1	t	660	THR
1	t	666	GLN
1	t	675	LEU
1	t	676	LYS
1	t	677	LYS
1	t	684	ASN
1	t	686	GLU
1	t	708	GLU
1	t	711	SER
1	t	712	THR
1	t	713	ARG
1	t	721	THR
1	u	209	ASP
1	u	213	ASN
1	u	232	LYS
1	u	233	SER
1	u	238	VAL
1	u	239	LEU
1	u	251	LYS
1	u	254	SER
1	u	255	VAL
1	u	275	PHE
1	u	279	HIS
1	u	285	ARG

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Mol	Chain	Res	Type
1	u	289	ARG
1	u	300	ARG
1	u	303	ARG
1	u	309	ILE
1	u	312	LYS
1	u	313	GLU
1	u	314	VAL
1	u	315	THR
1	u	317	GLN
1	u	322	THR
1	u	327	LEU
1	u	328	THR
1	u	331	VAL
1	u	345	VAL
1	u	370	THR
1	u	377	GLU
1	u	381	GLU
1	u	383	SER
1	u	388	LEU
1	u	394	LYS
1	u	398	THR
1	u	416	SER
1	u	423	LEU
1	u	428	ASN
1	u	440	SER
1	u	441	THR
1	u	442	ASN
1	u	444	THR
1	u	462	LYS
1	u	472	THR
1	u	481	VAL
1	u	491	THR
1	u	497	LEU
1	u	501	SER
1	u	504	VAL
1	u	507	GLN
1	u	515	LEU
1	u	516	GLN
1	u	523	LEU
1	u	526	THR
1	u	532	GLN
1	u	554	GLU

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Mol	Chain	Res	Type
1	u	556	GLN
1	u	561	VAL
1	u	565	VAL
1	u	575	SER
1	u	577	THR
1	u	578	THR
1	u	589	GLU
1	u	597	MET
1	u	598	GLU
1	u	607	ILE
1	u	635	MET
1	u	655	VAL
1	u	660	THR
1	u	666	GLN
1	u	675	LEU
1	u	676	LYS
1	u	677	LYS
1	u	684	ASN
1	u	686	GLU
1	u	708	GLU
1	u	711	SER
1	u	712	THR
1	u	713	ARG
1	u	721	THR
1	v	209	ASP
1	v	213	ASN
1	v	232	LYS
1	v	233	SER
1	v	238	VAL
1	v	239	LEU
1	v	251	LYS
1	v	254	SER
1	v	255	VAL
1	v	275	PHE
1	v	279	HIS
1	v	285	ARG
1	v	289	ARG
1	v	300	ARG
1	v	303	ARG
1	v	309	ILE
1	v	312	LYS
1	v	313	GLU

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Mol	Chain	Res	Type
1	v	314	VAL
1	v	315	THR
1	v	317	GLN
1	v	322	THR
1	v	327	LEU
1	v	328	THR
1	v	331	VAL
1	v	345	VAL
1	v	370	THR
1	v	377	GLU
1	v	381	GLU
1	v	383	SER
1	v	388	LEU
1	v	394	LYS
1	v	398	THR
1	v	416	SER
1	v	423	LEU
1	v	428	ASN
1	v	440	SER
1	v	441	THR
1	v	442	ASN
1	v	444	THR
1	v	462	LYS
1	v	472	THR
1	v	481	VAL
1	v	491	THR
1	v	497	LEU
1	v	501	SER
1	v	504	VAL
1	v	507	GLN
1	v	515	LEU
1	v	516	GLN
1	v	523	LEU
1	v	526	THR
1	v	532	GLN
1	v	554	GLU
1	v	556	GLN
1	v	561	VAL
1	v	565	VAL
1	v	575	SER
1	v	577	THR
1	v	578	THR

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Mol	Chain	Res	Type
1	v	589	GLU
1	v	597	MET
1	v	598	GLU
1	v	607	ILE
1	v	635	MET
1	v	655	VAL
1	v	660	THR
1	v	666	GLN
1	v	675	LEU
1	v	676	LYS
1	v	677	LYS
1	v	684	ASN
1	v	686	GLU
1	v	708	GLU
1	v	711	SER
1	v	712	THR
1	v	713	ARG
1	v	721	THR
1	w	209	ASP
1	w	213	ASN
1	w	232	LYS
1	w	233	SER
1	w	238	VAL
1	w	239	LEU
1	w	251	LYS
1	w	254	SER
1	w	255	VAL
1	w	275	PHE
1	w	279	HIS
1	w	285	ARG
1	w	289	ARG
1	w	300	ARG
1	w	303	ARG
1	w	309	ILE
1	w	312	LYS
1	w	313	GLU
1	w	314	VAL
1	w	315	THR
1	w	317	GLN
1	w	322	THR
1	w	327	LEU
1	w	328	THR

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Mol	Chain	Res	Type
1	w	331	VAL
1	w	345	VAL
1	w	370	THR
1	w	377	GLU
1	w	381	GLU
1	w	383	SER
1	w	388	LEU
1	w	394	LYS
1	w	398	THR
1	w	416	SER
1	w	423	LEU
1	w	428	ASN
1	w	440	SER
1	w	441	THR
1	w	442	ASN
1	w	444	THR
1	w	462	LYS
1	w	472	THR
1	w	481	VAL
1	w	491	THR
1	w	497	LEU
1	w	501	SER
1	w	504	VAL
1	w	507	GLN
1	w	515	LEU
1	w	516	GLN
1	w	523	LEU
1	w	526	THR
1	w	532	GLN
1	w	554	GLU
1	w	556	GLN
1	w	561	VAL
1	w	565	VAL
1	w	575	SER
1	w	577	THR
1	w	578	THR
1	w	589	GLU
1	w	598	GLU
1	w	607	ILE
1	w	635	MET
1	w	655	VAL
1	w	660	THR

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Mol	Chain	Res	Type
1	w	666	GLN
1	w	675	LEU
1	w	676	LYS
1	w	677	LYS
1	w	684	ASN
1	w	686	GLU
1	w	708	GLU
1	w	711	SER
1	w	712	THR
1	w	713	ARG
1	w	721	THR
1	x	209	ASP
1	x	213	ASN
1	x	232	LYS
1	x	233	SER
1	x	238	VAL
1	x	239	LEU
1	x	251	LYS
1	x	254	SER
1	x	255	VAL
1	x	275	PHE
1	x	279	HIS
1	x	285	ARG
1	x	289	ARG
1	x	300	ARG
1	x	303	ARG
1	x	309	ILE
1	x	312	LYS
1	x	313	GLU
1	x	314	VAL
1	x	315	THR
1	x	317	GLN
1	x	322	THR
1	x	327	LEU
1	x	328	THR
1	x	331	VAL
1	x	345	VAL
1	x	370	THR
1	x	377	GLU
1	x	381	GLU
1	x	383	SER
1	x	388	LEU

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Mol	Chain	Res	Type
1	x	394	LYS
1	x	398	THR
1	x	416	SER
1	x	423	LEU
1	x	428	ASN
1	x	440	SER
1	x	441	THR
1	x	442	ASN
1	x	444	THR
1	x	462	LYS
1	x	472	THR
1	x	481	VAL
1	x	491	THR
1	x	497	LEU
1	x	501	SER
1	x	504	VAL
1	x	507	GLN
1	x	515	LEU
1	x	516	GLN
1	x	523	LEU
1	x	526	THR
1	x	532	GLN
1	x	554	GLU
1	x	556	GLN
1	x	561	VAL
1	x	565	VAL
1	x	575	SER
1	x	577	THR
1	x	578	THR
1	x	589	GLU
1	x	597	MET
1	x	598	GLU
1	x	607	ILE
1	x	635	MET
1	x	655	VAL
1	x	660	THR
1	x	666	GLN
1	x	675	LEU
1	x	676	LYS
1	x	677	LYS
1	x	684	ASN
1	x	686	GLU

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Mol	Chain	Res	Type
1	x	708	GLU
1	x	711	SER
1	x	712	THR
1	x	713	ARG
1	x	721	THR
1	y	209	ASP
1	y	213	ASN
1	y	232	LYS
1	y	233	SER
1	y	238	VAL
1	y	239	LEU
1	y	251	LYS
1	y	254	SER
1	y	255	VAL
1	y	275	PHE
1	y	279	HIS
1	y	285	ARG
1	y	289	ARG
1	y	300	ARG
1	y	303	ARG
1	y	309	ILE
1	y	312	LYS
1	y	313	GLU
1	y	314	VAL
1	y	315	THR
1	y	317	GLN
1	y	322	THR
1	y	327	LEU
1	y	328	THR
1	y	331	VAL
1	y	345	VAL
1	y	370	THR
1	y	377	GLU
1	y	381	GLU
1	y	383	SER
1	y	388	LEU
1	y	394	LYS
1	y	398	THR
1	y	416	SER
1	y	423	LEU
1	y	428	ASN
1	y	440	SER

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Mol	Chain	Res	Type
1	y	441	THR
1	y	442	ASN
1	y	444	THR
1	y	462	LYS
1	y	472	THR
1	y	481	VAL
1	y	491	THR
1	y	497	LEU
1	y	501	SER
1	y	504	VAL
1	y	507	GLN
1	y	515	LEU
1	y	516	GLN
1	y	523	LEU
1	y	526	THR
1	y	532	GLN
1	y	554	GLU
1	y	556	GLN
1	y	561	VAL
1	y	565	VAL
1	y	575	SER
1	y	577	THR
1	y	578	THR
1	y	589	GLU
1	y	598	GLU
1	y	607	ILE
1	y	635	MET
1	y	655	VAL
1	y	660	THR
1	y	666	GLN
1	y	675	LEU
1	y	676	LYS
1	y	677	LYS
1	y	684	ASN
1	y	686	GLU
1	y	708	GLU
1	y	711	SER
1	y	712	THR
1	y	713	ARG
1	y	721	THR
1	z	209	ASP
1	z	213	ASN

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Mol	Chain	Res	Type
1	z	232	LYS
1	z	233	SER
1	z	238	VAL
1	z	239	LEU
1	z	251	LYS
1	z	254	SER
1	z	255	VAL
1	z	275	PHE
1	z	279	HIS
1	z	285	ARG
1	z	289	ARG
1	z	300	ARG
1	z	303	ARG
1	z	309	ILE
1	z	312	LYS
1	z	313	GLU
1	z	314	VAL
1	z	315	THR
1	z	317	GLN
1	z	322	THR
1	z	327	LEU
1	z	328	THR
1	z	331	VAL
1	z	345	VAL
1	z	370	THR
1	z	377	GLU
1	z	381	GLU
1	z	383	SER
1	z	388	LEU
1	z	394	LYS
1	z	398	THR
1	z	416	SER
1	z	423	LEU
1	z	428	ASN
1	z	440	SER
1	z	441	THR
1	z	442	ASN
1	z	444	THR
1	z	462	LYS
1	z	472	THR
1	z	481	VAL
1	z	491	THR

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Mol	Chain	Res	Type
1	z	497	LEU
1	z	501	SER
1	z	504	VAL
1	z	507	GLN
1	z	515	LEU
1	z	516	GLN
1	z	523	LEU
1	z	526	THR
1	z	532	GLN
1	z	554	GLU
1	z	556	GLN
1	z	561	VAL
1	z	565	VAL
1	z	575	SER
1	z	577	THR
1	z	578	THR
1	z	589	GLU
1	z	597	MET
1	z	598	GLU
1	z	607	ILE
1	z	635	MET
1	z	655	VAL
1	z	660	THR
1	z	666	GLN
1	z	675	LEU
1	z	676	LYS
1	z	677	LYS
1	z	684	ASN
1	z	686	GLU
1	z	708	GLU
1	z	711	SER
1	z	712	THR
1	z	713	ARG
1	z	721	THR
1	1	209	ASP
1	1	213	ASN
1	1	232	LYS
1	1	233	SER
1	1	238	VAL
1	1	239	LEU
1	1	251	LYS
1	1	254	SER

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Mol	Chain	Res	Type
1	1	255	VAL
1	1	275	PHE
1	1	279	HIS
1	1	285	ARG
1	1	289	ARG
1	1	300	ARG
1	1	303	ARG
1	1	309	ILE
1	1	312	LYS
1	1	313	GLU
1	1	314	VAL
1	1	315	THR
1	1	317	GLN
1	1	322	THR
1	1	327	LEU
1	1	328	THR
1	1	331	VAL
1	1	345	VAL
1	1	370	THR
1	1	377	GLU
1	1	381	GLU
1	1	383	SER
1	1	388	LEU
1	1	394	LYS
1	1	398	THR
1	1	416	SER
1	1	423	LEU
1	1	428	ASN
1	1	440	SER
1	1	441	THR
1	1	442	ASN
1	1	444	THR
1	1	462	LYS
1	1	472	THR
1	1	481	VAL
1	1	491	THR
1	1	497	LEU
1	1	501	SER
1	1	504	VAL
1	1	507	GLN
1	1	515	LEU
1	1	516	GLN

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Mol	Chain	Res	Type
1	1	523	LEU
1	1	526	THR
1	1	532	GLN
1	1	554	GLU
1	1	556	GLN
1	1	561	VAL
1	1	565	VAL
1	1	575	SER
1	1	577	THR
1	1	578	THR
1	1	589	GLU
1	1	598	GLU
1	1	607	ILE
1	1	635	MET
1	1	655	VAL
1	1	660	THR
1	1	666	GLN
1	1	675	LEU
1	1	676	LYS
1	1	677	LYS
1	1	684	ASN
1	1	686	GLU
1	1	708	GLU
1	1	711	SER
1	1	712	THR
1	1	713	ARG
1	1	721	THR
1	2	209	ASP
1	2	213	ASN
1	2	232	LYS
1	2	233	SER
1	2	238	VAL
1	2	239	LEU
1	2	251	LYS
1	2	254	SER
1	2	255	VAL
1	2	275	PHE
1	2	279	HIS
1	2	285	ARG
1	2	289	ARG
1	2	300	ARG
1	2	303	ARG

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Mol	Chain	Res	Type
1	2	309	ILE
1	2	312	LYS
1	2	313	GLU
1	2	314	VAL
1	2	315	THR
1	2	317	GLN
1	2	322	THR
1	2	327	LEU
1	2	328	THR
1	2	331	VAL
1	2	345	VAL
1	2	370	THR
1	2	377	GLU
1	2	381	GLU
1	2	383	SER
1	2	388	LEU
1	2	394	LYS
1	2	398	THR
1	2	416	SER
1	2	423	LEU
1	2	428	ASN
1	2	440	SER
1	2	441	THR
1	2	442	ASN
1	2	444	THR
1	2	462	LYS
1	2	472	THR
1	2	481	VAL
1	2	491	THR
1	2	497	LEU
1	2	501	SER
1	2	504	VAL
1	2	507	GLN
1	2	515	LEU
1	2	516	GLN
1	2	523	LEU
1	2	526	THR
1	2	532	GLN
1	2	554	GLU
1	2	556	GLN
1	2	561	VAL
1	2	565	VAL

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Mol	Chain	Res	Type
1	2	575	SER
1	2	577	THR
1	2	578	THR
1	2	589	GLU
1	2	598	GLU
1	2	607	ILE
1	2	635	MET
1	2	655	VAL
1	2	660	THR
1	2	666	GLN
1	2	675	LEU
1	2	676	LYS
1	2	677	LYS
1	2	684	ASN
1	2	686	GLU
1	2	708	GLU
1	2	711	SER
1	2	712	THR
1	2	713	ARG
1	2	721	THR
1	3	209	ASP
1	3	213	ASN
1	3	232	LYS
1	3	233	SER
1	3	238	VAL
1	3	239	LEU
1	3	251	LYS
1	3	254	SER
1	3	255	VAL
1	3	275	PHE
1	3	279	HIS
1	3	285	ARG
1	3	289	ARG
1	3	300	ARG
1	3	303	ARG
1	3	309	ILE
1	3	312	LYS
1	3	313	GLU
1	3	314	VAL
1	3	315	THR
1	3	317	GLN
1	3	322	THR

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Mol	Chain	Res	Type
1	3	327	LEU
1	3	328	THR
1	3	331	VAL
1	3	345	VAL
1	3	370	THR
1	3	377	GLU
1	3	381	GLU
1	3	383	SER
1	3	388	LEU
1	3	394	LYS
1	3	398	THR
1	3	416	SER
1	3	423	LEU
1	3	428	ASN
1	3	440	SER
1	3	441	THR
1	3	442	ASN
1	3	444	THR
1	3	462	LYS
1	3	472	THR
1	3	481	VAL
1	3	491	THR
1	3	497	LEU
1	3	501	SER
1	3	504	VAL
1	3	507	GLN
1	3	515	LEU
1	3	516	GLN
1	3	523	LEU
1	3	526	THR
1	3	532	GLN
1	3	554	GLU
1	3	556	GLN
1	3	561	VAL
1	3	565	VAL
1	3	575	SER
1	3	577	THR
1	3	578	THR
1	3	589	GLU
1	3	598	GLU
1	3	607	ILE
1	3	635	MET

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Mol	Chain	Res	Type
1	3	655	VAL
1	3	660	THR
1	3	666	GLN
1	3	675	LEU
1	3	676	LYS
1	3	677	LYS
1	3	684	ASN
1	3	686	GLU
1	3	708	GLU
1	3	711	SER
1	3	712	THR
1	3	713	ARG
1	3	721	THR
1	4	209	ASP
1	4	213	ASN
1	4	232	LYS
1	4	233	SER
1	4	238	VAL
1	4	239	LEU
1	4	251	LYS
1	4	254	SER
1	4	255	VAL
1	4	275	PHE
1	4	279	HIS
1	4	285	ARG
1	4	289	ARG
1	4	300	ARG
1	4	303	ARG
1	4	309	ILE
1	4	312	LYS
1	4	313	GLU
1	4	314	VAL
1	4	315	THR
1	4	317	GLN
1	4	322	THR
1	4	327	LEU
1	4	328	THR
1	4	331	VAL
1	4	345	VAL
1	4	370	THR
1	4	377	GLU
1	4	381	GLU

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Mol	Chain	Res	Type
1	4	383	SER
1	4	388	LEU
1	4	394	LYS
1	4	398	THR
1	4	416	SER
1	4	423	LEU
1	4	428	ASN
1	4	440	SER
1	4	441	THR
1	4	442	ASN
1	4	444	THR
1	4	462	LYS
1	4	472	THR
1	4	481	VAL
1	4	491	THR
1	4	497	LEU
1	4	501	SER
1	4	504	VAL
1	4	507	GLN
1	4	515	LEU
1	4	516	GLN
1	4	523	LEU
1	4	526	THR
1	4	532	GLN
1	4	554	GLU
1	4	556	GLN
1	4	561	VAL
1	4	565	VAL
1	4	575	SER
1	4	577	THR
1	4	578	THR
1	4	589	GLU
1	4	598	GLU
1	4	607	ILE
1	4	635	MET
1	4	655	VAL
1	4	660	THR
1	4	666	GLN
1	4	675	LEU
1	4	676	LYS
1	4	677	LYS
1	4	684	ASN

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Mol	Chain	Res	Type
1	4	686	GLU
1	4	708	GLU
1	4	711	SER
1	4	712	THR
1	4	713	ARG
1	4	721	THR
1	5	209	ASP
1	5	213	ASN
1	5	232	LYS
1	5	233	SER
1	5	238	VAL
1	5	239	LEU
1	5	251	LYS
1	5	254	SER
1	5	255	VAL
1	5	275	PHE
1	5	279	HIS
1	5	285	ARG
1	5	289	ARG
1	5	300	ARG
1	5	303	ARG
1	5	309	ILE
1	5	312	LYS
1	5	313	GLU
1	5	314	VAL
1	5	315	THR
1	5	317	GLN
1	5	322	THR
1	5	327	LEU
1	5	328	THR
1	5	331	VAL
1	5	345	VAL
1	5	370	THR
1	5	377	GLU
1	5	381	GLU
1	5	383	SER
1	5	388	LEU
1	5	394	LYS
1	5	398	THR
1	5	416	SER
1	5	423	LEU
1	5	428	ASN

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Mol	Chain	Res	Type
1	5	440	SER
1	5	441	THR
1	5	442	ASN
1	5	444	THR
1	5	462	LYS
1	5	472	THR
1	5	481	VAL
1	5	491	THR
1	5	497	LEU
1	5	501	SER
1	5	504	VAL
1	5	507	GLN
1	5	515	LEU
1	5	516	GLN
1	5	523	LEU
1	5	526	THR
1	5	532	GLN
1	5	554	GLU
1	5	556	GLN
1	5	561	VAL
1	5	565	VAL
1	5	575	SER
1	5	577	THR
1	5	578	THR
1	5	589	GLU
1	5	597	MET
1	5	598	GLU
1	5	607	ILE
1	5	635	MET
1	5	655	VAL
1	5	660	THR
1	5	666	GLN
1	5	675	LEU
1	5	676	LYS
1	5	677	LYS
1	5	684	ASN
1	5	686	GLU
1	5	708	GLU
1	5	711	SER
1	5	712	THR
1	5	713	ARG
1	5	721	THR

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Mol	Chain	Res	Type
1	6	209	ASP
1	6	213	ASN
1	6	232	LYS
1	6	233	SER
1	6	238	VAL
1	6	239	LEU
1	6	251	LYS
1	6	254	SER
1	6	255	VAL
1	6	275	PHE
1	6	279	HIS
1	6	285	ARG
1	6	289	ARG
1	6	300	ARG
1	6	303	ARG
1	6	309	ILE
1	6	312	LYS
1	6	313	GLU
1	6	314	VAL
1	6	315	THR
1	6	317	GLN
1	6	322	THR
1	6	327	LEU
1	6	328	THR
1	6	331	VAL
1	6	345	VAL
1	6	370	THR
1	6	377	GLU
1	6	381	GLU
1	6	383	SER
1	6	388	LEU
1	6	394	LYS
1	6	398	THR
1	6	416	SER
1	6	423	LEU
1	6	428	ASN
1	6	440	SER
1	6	441	THR
1	6	442	ASN
1	6	444	THR
1	6	462	LYS
1	6	472	THR

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Mol	Chain	Res	Type
1	6	481	VAL
1	6	491	THR
1	6	497	LEU
1	6	501	SER
1	6	504	VAL
1	6	507	GLN
1	6	515	LEU
1	6	516	GLN
1	6	523	LEU
1	6	526	THR
1	6	532	GLN
1	6	554	GLU
1	6	556	GLN
1	6	561	VAL
1	6	565	VAL
1	6	575	SER
1	6	577	THR
1	6	578	THR
1	6	589	GLU
1	6	597	MET
1	6	598	GLU
1	6	607	ILE
1	6	635	MET
1	6	655	VAL
1	6	660	THR
1	6	666	GLN
1	6	675	LEU
1	6	676	LYS
1	6	677	LYS
1	6	684	ASN
1	6	686	GLU
1	6	708	GLU
1	6	711	SER
1	6	712	THR
1	6	713	ARG
1	6	721	THR
1	7	209	ASP
1	7	213	ASN
1	7	232	LYS
1	7	233	SER
1	7	238	VAL
1	7	239	LEU

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Mol	Chain	Res	Type
1	7	251	LYS
1	7	254	SER
1	7	255	VAL
1	7	275	PHE
1	7	279	HIS
1	7	285	ARG
1	7	289	ARG
1	7	300	ARG
1	7	303	ARG
1	7	309	ILE
1	7	312	LYS
1	7	313	GLU
1	7	314	VAL
1	7	315	THR
1	7	317	GLN
1	7	322	THR
1	7	327	LEU
1	7	328	THR
1	7	331	VAL
1	7	345	VAL
1	7	370	THR
1	7	377	GLU
1	7	381	GLU
1	7	383	SER
1	7	388	LEU
1	7	394	LYS
1	7	398	THR
1	7	416	SER
1	7	423	LEU
1	7	428	ASN
1	7	440	SER
1	7	441	THR
1	7	442	ASN
1	7	444	THR
1	7	462	LYS
1	7	472	THR
1	7	481	VAL
1	7	491	THR
1	7	497	LEU
1	7	501	SER
1	7	504	VAL
1	7	507	GLN

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Mol	Chain	Res	Type
1	7	515	LEU
1	7	516	GLN
1	7	523	LEU
1	7	526	THR
1	7	532	GLN
1	7	554	GLU
1	7	556	GLN
1	7	561	VAL
1	7	565	VAL
1	7	575	SER
1	7	577	THR
1	7	578	THR
1	7	589	GLU
1	7	598	GLU
1	7	607	ILE
1	7	635	MET
1	7	655	VAL
1	7	660	THR
1	7	666	GLN
1	7	675	LEU
1	7	676	LYS
1	7	677	LYS
1	7	684	ASN
1	7	686	GLU
1	7	708	GLU
1	7	711	SER
1	7	712	THR
1	7	713	ARG
1	7	721	THR
1	8	209	ASP
1	8	213	ASN
1	8	232	LYS
1	8	233	SER
1	8	238	VAL
1	8	239	LEU
1	8	251	LYS
1	8	254	SER
1	8	255	VAL
1	8	275	PHE
1	8	279	HIS
1	8	285	ARG
1	8	289	ARG

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Mol	Chain	Res	Type
1	8	300	ARG
1	8	303	ARG
1	8	309	ILE
1	8	312	LYS
1	8	313	GLU
1	8	314	VAL
1	8	315	THR
1	8	317	GLN
1	8	322	THR
1	8	327	LEU
1	8	328	THR
1	8	331	VAL
1	8	345	VAL
1	8	370	THR
1	8	377	GLU
1	8	381	GLU
1	8	383	SER
1	8	388	LEU
1	8	394	LYS
1	8	398	THR
1	8	416	SER
1	8	423	LEU
1	8	428	ASN
1	8	440	SER
1	8	441	THR
1	8	442	ASN
1	8	444	THR
1	8	462	LYS
1	8	472	THR
1	8	481	VAL
1	8	491	THR
1	8	497	LEU
1	8	501	SER
1	8	504	VAL
1	8	507	GLN
1	8	515	LEU
1	8	516	GLN
1	8	523	LEU
1	8	526	THR
1	8	532	GLN
1	8	554	GLU
1	8	556	GLN

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Mol	Chain	Res	Type
1	8	561	VAL
1	8	565	VAL
1	8	575	SER
1	8	577	THR
1	8	578	THR
1	8	589	GLU
1	8	597	MET
1	8	598	GLU
1	8	607	ILE
1	8	635	MET
1	8	655	VAL
1	8	660	THR
1	8	666	GLN
1	8	675	LEU
1	8	676	LYS
1	8	677	LYS
1	8	684	ASN
1	8	686	GLU
1	8	708	GLU
1	8	711	SER
1	8	712	THR
1	8	713	ARG
1	8	721	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1305) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	245	HIS
1	A	246	GLN
1	A	259	ASN
1	A	261	ASN
1	A	308	ASN
1	A	326	ASN
1	A	365	GLN
1	A	400	ASN
1	A	428	ASN
1	A	459	ASN
1	A	507	GLN
1	A	514	ASN
1	A	530	ASN
1	A	556	GLN
1	A	564	ASN

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Mol	Chain	Res	Type
1	A	619	HIS
1	A	640	ASN
1	A	661	GLN
1	A	666	GLN
1	A	679	ASN
1	A	684	ASN
1	A	694	ASN
1	B	245	HIS
1	B	246	GLN
1	B	261	ASN
1	B	308	ASN
1	B	326	ASN
1	B	365	GLN
1	B	400	ASN
1	B	428	ASN
1	B	459	ASN
1	B	507	GLN
1	B	514	ASN
1	B	530	ASN
1	B	556	GLN
1	B	564	ASN
1	B	619	HIS
1	B	640	ASN
1	B	661	GLN
1	B	666	GLN
1	B	679	ASN
1	B	684	ASN
1	B	694	ASN
1	C	245	HIS
1	C	246	GLN
1	C	261	ASN
1	C	308	ASN
1	C	326	ASN
1	C	365	GLN
1	C	400	ASN
1	C	428	ASN
1	C	459	ASN
1	C	507	GLN
1	C	514	ASN
1	C	530	ASN
1	C	556	GLN
1	C	564	ASN

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Mol	Chain	Res	Type
1	C	619	HIS
1	C	640	ASN
1	C	661	GLN
1	C	666	GLN
1	C	679	ASN
1	C	684	ASN
1	C	694	ASN
1	D	245	HIS
1	D	246	GLN
1	D	259	ASN
1	D	261	ASN
1	D	308	ASN
1	D	326	ASN
1	D	365	GLN
1	D	400	ASN
1	D	428	ASN
1	D	459	ASN
1	D	507	GLN
1	D	514	ASN
1	D	530	ASN
1	D	556	GLN
1	D	564	ASN
1	D	619	HIS
1	D	640	ASN
1	D	661	GLN
1	D	666	GLN
1	D	679	ASN
1	D	684	ASN
1	D	694	ASN
1	E	245	HIS
1	E	246	GLN
1	E	259	ASN
1	E	261	ASN
1	E	308	ASN
1	E	326	ASN
1	E	365	GLN
1	E	400	ASN
1	E	428	ASN
1	E	459	ASN
1	E	507	GLN
1	E	530	ASN
1	E	556	GLN

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Mol	Chain	Res	Type
1	E	564	ASN
1	E	619	HIS
1	E	640	ASN
1	E	661	GLN
1	E	666	GLN
1	E	679	ASN
1	E	684	ASN
1	E	694	ASN
1	F	245	HIS
1	F	246	GLN
1	F	261	ASN
1	F	308	ASN
1	F	326	ASN
1	F	365	GLN
1	F	400	ASN
1	F	428	ASN
1	F	459	ASN
1	F	507	GLN
1	F	514	ASN
1	F	530	ASN
1	F	556	GLN
1	F	564	ASN
1	F	619	HIS
1	F	640	ASN
1	F	661	GLN
1	F	666	GLN
1	F	679	ASN
1	F	684	ASN
1	F	694	ASN
1	G	245	HIS
1	G	246	GLN
1	G	261	ASN
1	G	308	ASN
1	G	326	ASN
1	G	365	GLN
1	G	400	ASN
1	G	428	ASN
1	G	507	GLN
1	G	514	ASN
1	G	530	ASN
1	G	556	GLN
1	G	564	ASN

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Mol	Chain	Res	Type
1	G	619	HIS
1	G	640	ASN
1	G	661	GLN
1	G	666	GLN
1	G	679	ASN
1	G	684	ASN
1	G	694	ASN
1	H	245	HIS
1	H	246	GLN
1	H	259	ASN
1	H	261	ASN
1	H	308	ASN
1	H	326	ASN
1	H	365	GLN
1	H	400	ASN
1	H	428	ASN
1	H	507	GLN
1	H	514	ASN
1	H	530	ASN
1	H	556	GLN
1	H	564	ASN
1	H	619	HIS
1	H	640	ASN
1	H	661	GLN
1	H	666	GLN
1	H	679	ASN
1	H	684	ASN
1	H	694	ASN
1	I	245	HIS
1	I	246	GLN
1	I	259	ASN
1	I	261	ASN
1	I	308	ASN
1	I	326	ASN
1	I	365	GLN
1	I	400	ASN
1	I	428	ASN
1	I	459	ASN
1	I	507	GLN
1	I	514	ASN
1	I	530	ASN
1	I	556	GLN

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Mol	Chain	Res	Type
1	I	564	ASN
1	I	619	HIS
1	I	640	ASN
1	I	661	GLN
1	I	666	GLN
1	I	679	ASN
1	I	684	ASN
1	I	694	ASN
1	J	245	HIS
1	J	246	GLN
1	J	259	ASN
1	J	261	ASN
1	J	308	ASN
1	J	326	ASN
1	J	365	GLN
1	J	400	ASN
1	J	428	ASN
1	J	459	ASN
1	J	507	GLN
1	J	514	ASN
1	J	530	ASN
1	J	556	GLN
1	J	564	ASN
1	J	619	HIS
1	J	640	ASN
1	J	661	GLN
1	J	666	GLN
1	J	679	ASN
1	J	684	ASN
1	J	694	ASN
1	K	245	HIS
1	K	246	GLN
1	K	259	ASN
1	K	261	ASN
1	K	308	ASN
1	K	326	ASN
1	K	365	GLN
1	K	400	ASN
1	K	428	ASN
1	K	459	ASN
1	K	507	GLN
1	K	514	ASN

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Mol	Chain	Res	Type
1	K	530	ASN
1	K	556	GLN
1	K	564	ASN
1	K	619	HIS
1	K	640	ASN
1	K	661	GLN
1	K	666	GLN
1	K	679	ASN
1	K	684	ASN
1	K	694	ASN
1	L	245	HIS
1	L	246	GLN
1	L	259	ASN
1	L	261	ASN
1	L	308	ASN
1	L	326	ASN
1	L	365	GLN
1	L	400	ASN
1	L	428	ASN
1	L	459	ASN
1	L	507	GLN
1	L	514	ASN
1	L	530	ASN
1	L	556	GLN
1	L	564	ASN
1	L	619	HIS
1	L	640	ASN
1	L	661	GLN
1	L	666	GLN
1	L	679	ASN
1	L	684	ASN
1	L	694	ASN
1	M	245	HIS
1	M	246	GLN
1	M	259	ASN
1	M	261	ASN
1	M	308	ASN
1	M	326	ASN
1	M	365	GLN
1	M	400	ASN
1	M	428	ASN
1	M	459	ASN

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Mol	Chain	Res	Type
1	M	507	GLN
1	M	514	ASN
1	M	530	ASN
1	M	556	GLN
1	M	564	ASN
1	M	619	HIS
1	M	640	ASN
1	M	661	GLN
1	M	666	GLN
1	M	679	ASN
1	M	684	ASN
1	M	694	ASN
1	N	245	HIS
1	N	246	GLN
1	N	261	ASN
1	N	308	ASN
1	N	326	ASN
1	N	365	GLN
1	N	400	ASN
1	N	428	ASN
1	N	459	ASN
1	N	507	GLN
1	N	514	ASN
1	N	530	ASN
1	N	556	GLN
1	N	564	ASN
1	N	619	HIS
1	N	640	ASN
1	N	661	GLN
1	N	666	GLN
1	N	679	ASN
1	N	684	ASN
1	N	694	ASN
1	O	245	HIS
1	O	246	GLN
1	O	259	ASN
1	O	261	ASN
1	O	308	ASN
1	O	326	ASN
1	O	365	GLN
1	O	400	ASN
1	O	428	ASN

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Mol	Chain	Res	Type
1	O	459	ASN
1	O	507	GLN
1	O	514	ASN
1	O	530	ASN
1	O	556	GLN
1	O	564	ASN
1	O	619	HIS
1	O	640	ASN
1	O	661	GLN
1	O	666	GLN
1	O	679	ASN
1	O	684	ASN
1	O	694	ASN
1	P	245	HIS
1	P	246	GLN
1	P	259	ASN
1	P	261	ASN
1	P	308	ASN
1	P	326	ASN
1	P	365	GLN
1	P	400	ASN
1	P	428	ASN
1	P	459	ASN
1	P	507	GLN
1	P	530	ASN
1	P	556	GLN
1	P	564	ASN
1	P	619	HIS
1	P	640	ASN
1	P	661	GLN
1	P	666	GLN
1	P	679	ASN
1	P	684	ASN
1	P	694	ASN
1	Q	245	HIS
1	Q	246	GLN
1	Q	259	ASN
1	Q	261	ASN
1	Q	308	ASN
1	Q	326	ASN
1	Q	365	GLN
1	Q	400	ASN

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Mol	Chain	Res	Type
1	Q	428	ASN
1	Q	459	ASN
1	Q	507	GLN
1	Q	514	ASN
1	Q	530	ASN
1	Q	556	GLN
1	Q	564	ASN
1	Q	619	HIS
1	Q	640	ASN
1	Q	661	GLN
1	Q	666	GLN
1	Q	679	ASN
1	Q	684	ASN
1	Q	694	ASN
1	R	245	HIS
1	R	246	GLN
1	R	259	ASN
1	R	261	ASN
1	R	308	ASN
1	R	326	ASN
1	R	365	GLN
1	R	400	ASN
1	R	428	ASN
1	R	459	ASN
1	R	507	GLN
1	R	514	ASN
1	R	530	ASN
1	R	556	GLN
1	R	564	ASN
1	R	619	HIS
1	R	640	ASN
1	R	661	GLN
1	R	666	GLN
1	R	679	ASN
1	R	684	ASN
1	R	694	ASN
1	S	245	HIS
1	S	246	GLN
1	S	259	ASN
1	S	261	ASN
1	S	308	ASN
1	S	326	ASN

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Mol	Chain	Res	Type
1	S	365	GLN
1	S	400	ASN
1	S	428	ASN
1	S	459	ASN
1	S	507	GLN
1	S	514	ASN
1	S	530	ASN
1	S	556	GLN
1	S	564	ASN
1	S	619	HIS
1	S	640	ASN
1	S	661	GLN
1	S	666	GLN
1	S	679	ASN
1	S	684	ASN
1	S	694	ASN
1	T	245	HIS
1	T	246	GLN
1	T	261	ASN
1	T	308	ASN
1	T	326	ASN
1	T	365	GLN
1	T	400	ASN
1	T	428	ASN
1	T	459	ASN
1	T	507	GLN
1	T	514	ASN
1	T	530	ASN
1	T	556	GLN
1	T	564	ASN
1	T	619	HIS
1	T	640	ASN
1	T	661	GLN
1	T	666	GLN
1	T	679	ASN
1	T	684	ASN
1	T	694	ASN
1	U	245	HIS
1	U	246	GLN
1	U	259	ASN
1	U	261	ASN
1	U	308	ASN

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Mol	Chain	Res	Type
1	U	326	ASN
1	U	365	GLN
1	U	400	ASN
1	U	428	ASN
1	U	459	ASN
1	U	507	GLN
1	U	514	ASN
1	U	530	ASN
1	U	556	GLN
1	U	564	ASN
1	U	619	HIS
1	U	640	ASN
1	U	661	GLN
1	U	666	GLN
1	U	679	ASN
1	U	684	ASN
1	U	694	ASN
1	V	245	HIS
1	V	246	GLN
1	V	259	ASN
1	V	261	ASN
1	V	308	ASN
1	V	326	ASN
1	V	365	GLN
1	V	400	ASN
1	V	428	ASN
1	V	459	ASN
1	V	507	GLN
1	V	514	ASN
1	V	530	ASN
1	V	556	GLN
1	V	564	ASN
1	V	619	HIS
1	V	640	ASN
1	V	661	GLN
1	V	666	GLN
1	V	679	ASN
1	V	684	ASN
1	V	694	ASN
1	W	245	HIS
1	W	246	GLN
1	W	259	ASN

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Mol	Chain	Res	Type
1	W	261	ASN
1	W	308	ASN
1	W	326	ASN
1	W	365	GLN
1	W	400	ASN
1	W	428	ASN
1	W	459	ASN
1	W	507	GLN
1	W	514	ASN
1	W	530	ASN
1	W	556	GLN
1	W	564	ASN
1	W	619	HIS
1	W	640	ASN
1	W	661	GLN
1	W	666	GLN
1	W	679	ASN
1	W	684	ASN
1	W	694	ASN
1	X	245	HIS
1	X	246	GLN
1	X	259	ASN
1	X	261	ASN
1	X	308	ASN
1	X	326	ASN
1	X	365	GLN
1	X	400	ASN
1	X	428	ASN
1	X	459	ASN
1	X	507	GLN
1	X	514	ASN
1	X	530	ASN
1	X	556	GLN
1	X	564	ASN
1	X	619	HIS
1	X	640	ASN
1	X	661	GLN
1	X	666	GLN
1	X	679	ASN
1	X	684	ASN
1	X	694	ASN
1	Y	245	HIS

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Mol	Chain	Res	Type
1	Y	246	GLN
1	Y	259	ASN
1	Y	261	ASN
1	Y	308	ASN
1	Y	326	ASN
1	Y	365	GLN
1	Y	400	ASN
1	Y	428	ASN
1	Y	459	ASN
1	Y	507	GLN
1	Y	514	ASN
1	Y	530	ASN
1	Y	556	GLN
1	Y	564	ASN
1	Y	619	HIS
1	Y	640	ASN
1	Y	661	GLN
1	Y	666	GLN
1	Y	679	ASN
1	Y	684	ASN
1	Y	694	ASN
1	Z	245	HIS
1	Z	246	GLN
1	Z	261	ASN
1	Z	308	ASN
1	Z	326	ASN
1	Z	365	GLN
1	Z	400	ASN
1	Z	428	ASN
1	Z	459	ASN
1	Z	507	GLN
1	Z	514	ASN
1	Z	530	ASN
1	Z	556	GLN
1	Z	564	ASN
1	Z	619	HIS
1	Z	640	ASN
1	Z	661	GLN
1	Z	666	GLN
1	Z	679	ASN
1	Z	684	ASN
1	Z	694	ASN

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Mol	Chain	Res	Type
1	a	245	HIS
1	a	246	GLN
1	a	259	ASN
1	a	261	ASN
1	a	308	ASN
1	a	326	ASN
1	a	365	GLN
1	a	400	ASN
1	a	428	ASN
1	a	459	ASN
1	a	507	GLN
1	a	514	ASN
1	a	530	ASN
1	a	556	GLN
1	a	564	ASN
1	a	619	HIS
1	a	640	ASN
1	a	661	GLN
1	a	666	GLN
1	a	679	ASN
1	a	684	ASN
1	a	694	ASN
1	b	245	HIS
1	b	246	GLN
1	b	259	ASN
1	b	261	ASN
1	b	308	ASN
1	b	326	ASN
1	b	365	GLN
1	b	400	ASN
1	b	428	ASN
1	b	459	ASN
1	b	507	GLN
1	b	514	ASN
1	b	530	ASN
1	b	556	GLN
1	b	564	ASN
1	b	619	HIS
1	b	640	ASN
1	b	661	GLN
1	b	666	GLN
1	b	679	ASN

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Mol	Chain	Res	Type
1	b	684	ASN
1	b	694	ASN
1	c	245	HIS
1	c	246	GLN
1	c	259	ASN
1	c	261	ASN
1	c	308	ASN
1	c	326	ASN
1	c	365	GLN
1	c	400	ASN
1	c	428	ASN
1	c	507	GLN
1	c	514	ASN
1	c	530	ASN
1	c	556	GLN
1	c	564	ASN
1	c	619	HIS
1	c	640	ASN
1	c	661	GLN
1	c	666	GLN
1	c	679	ASN
1	c	684	ASN
1	c	694	ASN
1	d	245	HIS
1	d	246	GLN
1	d	259	ASN
1	d	261	ASN
1	d	308	ASN
1	d	326	ASN
1	d	365	GLN
1	d	400	ASN
1	d	428	ASN
1	d	459	ASN
1	d	507	GLN
1	d	514	ASN
1	d	530	ASN
1	d	556	GLN
1	d	564	ASN
1	d	619	HIS
1	d	640	ASN
1	d	661	GLN
1	d	666	GLN

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Mol	Chain	Res	Type
1	d	679	ASN
1	d	684	ASN
1	d	694	ASN
1	e	245	HIS
1	e	246	GLN
1	e	259	ASN
1	e	261	ASN
1	e	308	ASN
1	e	326	ASN
1	e	365	GLN
1	e	400	ASN
1	e	428	ASN
1	e	459	ASN
1	e	507	GLN
1	e	514	ASN
1	e	530	ASN
1	e	556	GLN
1	e	564	ASN
1	e	619	HIS
1	e	640	ASN
1	e	661	GLN
1	e	666	GLN
1	e	679	ASN
1	e	684	ASN
1	e	694	ASN
1	f	245	HIS
1	f	246	GLN
1	f	259	ASN
1	f	261	ASN
1	f	308	ASN
1	f	326	ASN
1	f	365	GLN
1	f	400	ASN
1	f	428	ASN
1	f	459	ASN
1	f	507	GLN
1	f	514	ASN
1	f	530	ASN
1	f	556	GLN
1	f	564	ASN
1	f	619	HIS
1	f	640	ASN

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Mol	Chain	Res	Type
1	f	661	GLN
1	f	666	GLN
1	f	679	ASN
1	f	684	ASN
1	f	694	ASN
1	g	245	HIS
1	g	246	GLN
1	g	261	ASN
1	g	308	ASN
1	g	326	ASN
1	g	365	GLN
1	g	400	ASN
1	g	428	ASN
1	g	459	ASN
1	g	507	GLN
1	g	514	ASN
1	g	530	ASN
1	g	556	GLN
1	g	564	ASN
1	g	619	HIS
1	g	640	ASN
1	g	661	GLN
1	g	666	GLN
1	g	679	ASN
1	g	684	ASN
1	g	694	ASN
1	h	245	HIS
1	h	246	GLN
1	h	259	ASN
1	h	261	ASN
1	h	308	ASN
1	h	326	ASN
1	h	365	GLN
1	h	400	ASN
1	h	428	ASN
1	h	459	ASN
1	h	507	GLN
1	h	514	ASN
1	h	530	ASN
1	h	556	GLN
1	h	564	ASN
1	h	619	HIS

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Mol	Chain	Res	Type
1	h	640	ASN
1	h	661	GLN
1	h	666	GLN
1	h	679	ASN
1	h	684	ASN
1	h	694	ASN
1	i	245	HIS
1	i	246	GLN
1	i	261	ASN
1	i	308	ASN
1	i	326	ASN
1	i	365	GLN
1	i	400	ASN
1	i	428	ASN
1	i	459	ASN
1	i	507	GLN
1	i	514	ASN
1	i	530	ASN
1	i	556	GLN
1	i	564	ASN
1	i	619	HIS
1	i	640	ASN
1	i	661	GLN
1	i	666	GLN
1	i	679	ASN
1	i	684	ASN
1	i	694	ASN
1	j	245	HIS
1	j	246	GLN
1	j	259	ASN
1	j	261	ASN
1	j	308	ASN
1	j	326	ASN
1	j	365	GLN
1	j	400	ASN
1	j	428	ASN
1	j	459	ASN
1	j	507	GLN
1	j	514	ASN
1	j	530	ASN
1	j	556	GLN
1	j	564	ASN

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Mol	Chain	Res	Type
1	j	619	HIS
1	j	640	ASN
1	j	661	GLN
1	j	666	GLN
1	j	679	ASN
1	j	684	ASN
1	j	694	ASN
1	k	245	HIS
1	k	246	GLN
1	k	259	ASN
1	k	261	ASN
1	k	308	ASN
1	k	326	ASN
1	k	365	GLN
1	k	400	ASN
1	k	428	ASN
1	k	459	ASN
1	k	507	GLN
1	k	514	ASN
1	k	530	ASN
1	k	556	GLN
1	k	564	ASN
1	k	619	HIS
1	k	640	ASN
1	k	661	GLN
1	k	666	GLN
1	k	679	ASN
1	k	684	ASN
1	k	694	ASN
1	l	245	HIS
1	l	246	GLN
1	l	259	ASN
1	l	261	ASN
1	l	308	ASN
1	l	326	ASN
1	l	365	GLN
1	l	400	ASN
1	l	428	ASN
1	l	459	ASN
1	l	507	GLN
1	l	514	ASN
1	l	530	ASN

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Mol	Chain	Res	Type
1	l	532	GLN
1	l	556	GLN
1	l	564	ASN
1	l	619	HIS
1	l	640	ASN
1	l	661	GLN
1	l	666	GLN
1	l	679	ASN
1	l	684	ASN
1	l	694	ASN
1	m	245	HIS
1	m	246	GLN
1	m	259	ASN
1	m	261	ASN
1	m	308	ASN
1	m	326	ASN
1	m	365	GLN
1	m	400	ASN
1	m	428	ASN
1	m	459	ASN
1	m	507	GLN
1	m	514	ASN
1	m	530	ASN
1	m	532	GLN
1	m	556	GLN
1	m	564	ASN
1	m	619	HIS
1	m	640	ASN
1	m	661	GLN
1	m	666	GLN
1	m	679	ASN
1	m	684	ASN
1	m	694	ASN
1	n	245	HIS
1	n	246	GLN
1	n	261	ASN
1	n	308	ASN
1	n	326	ASN
1	n	365	GLN
1	n	400	ASN
1	n	428	ASN
1	n	459	ASN

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Mol	Chain	Res	Type
1	n	507	GLN
1	n	514	ASN
1	n	530	ASN
1	n	556	GLN
1	n	564	ASN
1	n	619	HIS
1	n	640	ASN
1	n	661	GLN
1	n	666	GLN
1	n	679	ASN
1	n	684	ASN
1	n	694	ASN
1	o	245	HIS
1	o	246	GLN
1	o	259	ASN
1	o	261	ASN
1	o	308	ASN
1	o	326	ASN
1	o	365	GLN
1	o	400	ASN
1	o	428	ASN
1	o	459	ASN
1	o	507	GLN
1	o	514	ASN
1	o	530	ASN
1	o	556	GLN
1	o	564	ASN
1	o	619	HIS
1	o	640	ASN
1	o	661	GLN
1	o	666	GLN
1	o	679	ASN
1	o	684	ASN
1	o	694	ASN
1	p	245	HIS
1	p	246	GLN
1	p	259	ASN
1	p	261	ASN
1	p	308	ASN
1	p	326	ASN
1	p	365	GLN
1	p	400	ASN

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Mol	Chain	Res	Type
1	p	428	ASN
1	p	459	ASN
1	p	507	GLN
1	p	514	ASN
1	p	530	ASN
1	p	556	GLN
1	p	564	ASN
1	p	619	HIS
1	p	640	ASN
1	p	661	GLN
1	p	666	GLN
1	p	679	ASN
1	p	684	ASN
1	p	694	ASN
1	q	245	HIS
1	q	246	GLN
1	q	259	ASN
1	q	261	ASN
1	q	308	ASN
1	q	326	ASN
1	q	365	GLN
1	q	400	ASN
1	q	428	ASN
1	q	459	ASN
1	q	507	GLN
1	q	514	ASN
1	q	530	ASN
1	q	556	GLN
1	q	564	ASN
1	q	619	HIS
1	q	640	ASN
1	q	661	GLN
1	q	666	GLN
1	q	679	ASN
1	q	684	ASN
1	q	694	ASN
1	r	245	HIS
1	r	246	GLN
1	r	259	ASN
1	r	261	ASN
1	r	308	ASN
1	r	326	ASN

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Mol	Chain	Res	Type
1	r	365	GLN
1	r	400	ASN
1	r	428	ASN
1	r	459	ASN
1	r	507	GLN
1	r	514	ASN
1	r	530	ASN
1	r	556	GLN
1	r	564	ASN
1	r	619	HIS
1	r	640	ASN
1	r	661	GLN
1	r	666	GLN
1	r	679	ASN
1	r	684	ASN
1	r	694	ASN
1	s	245	HIS
1	s	246	GLN
1	s	259	ASN
1	s	261	ASN
1	s	308	ASN
1	s	326	ASN
1	s	365	GLN
1	s	400	ASN
1	s	428	ASN
1	s	459	ASN
1	s	507	GLN
1	s	514	ASN
1	s	530	ASN
1	s	556	GLN
1	s	564	ASN
1	s	619	HIS
1	s	640	ASN
1	s	661	GLN
1	s	666	GLN
1	s	679	ASN
1	s	684	ASN
1	s	694	ASN
1	t	245	HIS
1	t	246	GLN
1	t	259	ASN
1	t	261	ASN

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Mol	Chain	Res	Type
1	t	308	ASN
1	t	326	ASN
1	t	365	GLN
1	t	400	ASN
1	t	428	ASN
1	t	459	ASN
1	t	507	GLN
1	t	514	ASN
1	t	530	ASN
1	t	556	GLN
1	t	564	ASN
1	t	619	HIS
1	t	640	ASN
1	t	661	GLN
1	t	666	GLN
1	t	679	ASN
1	t	684	ASN
1	t	694	ASN
1	u	245	HIS
1	u	246	GLN
1	u	259	ASN
1	u	261	ASN
1	u	308	ASN
1	u	326	ASN
1	u	365	GLN
1	u	400	ASN
1	u	428	ASN
1	u	459	ASN
1	u	507	GLN
1	u	514	ASN
1	u	530	ASN
1	u	556	GLN
1	u	564	ASN
1	u	619	HIS
1	u	640	ASN
1	u	661	GLN
1	u	666	GLN
1	u	679	ASN
1	u	684	ASN
1	u	694	ASN
1	v	245	HIS
1	v	246	GLN

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Mol	Chain	Res	Type
1	v	259	ASN
1	v	261	ASN
1	v	308	ASN
1	v	326	ASN
1	v	365	GLN
1	v	400	ASN
1	v	428	ASN
1	v	459	ASN
1	v	507	GLN
1	v	514	ASN
1	v	530	ASN
1	v	556	GLN
1	v	564	ASN
1	v	619	HIS
1	v	640	ASN
1	v	661	GLN
1	v	666	GLN
1	v	679	ASN
1	v	684	ASN
1	v	694	ASN
1	w	245	HIS
1	w	246	GLN
1	w	259	ASN
1	w	261	ASN
1	w	308	ASN
1	w	326	ASN
1	w	365	GLN
1	w	400	ASN
1	w	428	ASN
1	w	459	ASN
1	w	507	GLN
1	w	514	ASN
1	w	530	ASN
1	w	556	GLN
1	w	564	ASN
1	w	619	HIS
1	w	640	ASN
1	w	661	GLN
1	w	666	GLN
1	w	679	ASN
1	w	684	ASN
1	w	694	ASN

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Mol	Chain	Res	Type
1	x	245	HIS
1	x	246	GLN
1	x	259	ASN
1	x	261	ASN
1	x	308	ASN
1	x	326	ASN
1	x	332	GLN
1	x	365	GLN
1	x	400	ASN
1	x	428	ASN
1	x	507	GLN
1	x	514	ASN
1	x	530	ASN
1	x	556	GLN
1	x	564	ASN
1	x	619	HIS
1	x	640	ASN
1	x	661	GLN
1	x	666	GLN
1	x	679	ASN
1	x	684	ASN
1	x	694	ASN
1	y	245	HIS
1	y	246	GLN
1	y	259	ASN
1	y	261	ASN
1	y	308	ASN
1	y	326	ASN
1	y	365	GLN
1	y	400	ASN
1	y	428	ASN
1	y	507	GLN
1	y	514	ASN
1	y	530	ASN
1	y	556	GLN
1	y	564	ASN
1	y	619	HIS
1	y	640	ASN
1	y	661	GLN
1	y	666	GLN
1	y	679	ASN
1	y	684	ASN

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Mol	Chain	Res	Type
1	y	694	ASN
1	z	245	HIS
1	z	246	GLN
1	z	261	ASN
1	z	308	ASN
1	z	326	ASN
1	z	365	GLN
1	z	400	ASN
1	z	428	ASN
1	z	459	ASN
1	z	507	GLN
1	z	514	ASN
1	z	530	ASN
1	z	556	GLN
1	z	564	ASN
1	z	619	HIS
1	z	640	ASN
1	z	661	GLN
1	z	666	GLN
1	z	679	ASN
1	z	684	ASN
1	z	694	ASN
1	1	245	HIS
1	1	246	GLN
1	1	259	ASN
1	1	261	ASN
1	1	308	ASN
1	1	326	ASN
1	1	365	GLN
1	1	400	ASN
1	1	428	ASN
1	1	459	ASN
1	1	507	GLN
1	1	514	ASN
1	1	530	ASN
1	1	556	GLN
1	1	564	ASN
1	1	619	HIS
1	1	640	ASN
1	1	661	GLN
1	1	666	GLN
1	1	679	ASN

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Mol	Chain	Res	Type
1	1	684	ASN
1	1	694	ASN
1	2	245	HIS
1	2	246	GLN
1	2	261	ASN
1	2	308	ASN
1	2	326	ASN
1	2	365	GLN
1	2	400	ASN
1	2	428	ASN
1	2	459	ASN
1	2	507	GLN
1	2	514	ASN
1	2	530	ASN
1	2	532	GLN
1	2	556	GLN
1	2	564	ASN
1	2	619	HIS
1	2	640	ASN
1	2	661	GLN
1	2	666	GLN
1	2	679	ASN
1	2	684	ASN
1	2	694	ASN
1	3	245	HIS
1	3	246	GLN
1	3	259	ASN
1	3	261	ASN
1	3	308	ASN
1	3	326	ASN
1	3	365	GLN
1	3	400	ASN
1	3	428	ASN
1	3	459	ASN
1	3	507	GLN
1	3	514	ASN
1	3	530	ASN
1	3	532	GLN
1	3	556	GLN
1	3	564	ASN
1	3	619	HIS
1	3	640	ASN

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Mol	Chain	Res	Type
1	3	661	GLN
1	3	666	GLN
1	3	679	ASN
1	3	684	ASN
1	3	694	ASN
1	4	245	HIS
1	4	246	GLN
1	4	259	ASN
1	4	261	ASN
1	4	308	ASN
1	4	326	ASN
1	4	365	GLN
1	4	400	ASN
1	4	428	ASN
1	4	459	ASN
1	4	507	GLN
1	4	514	ASN
1	4	530	ASN
1	4	556	GLN
1	4	564	ASN
1	4	619	HIS
1	4	640	ASN
1	4	661	GLN
1	4	666	GLN
1	4	679	ASN
1	4	684	ASN
1	4	694	ASN
1	5	245	HIS
1	5	246	GLN
1	5	259	ASN
1	5	261	ASN
1	5	308	ASN
1	5	326	ASN
1	5	365	GLN
1	5	400	ASN
1	5	428	ASN
1	5	459	ASN
1	5	507	GLN
1	5	514	ASN
1	5	530	ASN
1	5	556	GLN
1	5	564	ASN

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Mol	Chain	Res	Type
1	5	619	HIS
1	5	640	ASN
1	5	661	GLN
1	5	666	GLN
1	5	679	ASN
1	5	684	ASN
1	5	694	ASN
1	6	245	HIS
1	6	246	GLN
1	6	259	ASN
1	6	261	ASN
1	6	308	ASN
1	6	326	ASN
1	6	365	GLN
1	6	400	ASN
1	6	428	ASN
1	6	459	ASN
1	6	507	GLN
1	6	514	ASN
1	6	530	ASN
1	6	556	GLN
1	6	564	ASN
1	6	619	HIS
1	6	640	ASN
1	6	661	GLN
1	6	666	GLN
1	6	679	ASN
1	6	684	ASN
1	6	694	ASN
1	7	245	HIS
1	7	246	GLN
1	7	261	ASN
1	7	308	ASN
1	7	326	ASN
1	7	365	GLN
1	7	400	ASN
1	7	428	ASN
1	7	459	ASN
1	7	507	GLN
1	7	514	ASN
1	7	530	ASN
1	7	556	GLN

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Mol	Chain	Res	Type
1	7	564	ASN
1	7	619	HIS
1	7	640	ASN
1	7	661	GLN
1	7	666	GLN
1	7	679	ASN
1	7	684	ASN
1	7	694	ASN
1	8	245	HIS
1	8	246	GLN
1	8	259	ASN
1	8	261	ASN
1	8	308	ASN
1	8	326	ASN
1	8	365	GLN
1	8	400	ASN
1	8	428	ASN
1	8	459	ASN
1	8	507	GLN
1	8	514	ASN
1	8	530	ASN
1	8	556	GLN
1	8	564	ASN
1	8	619	HIS
1	8	640	ASN
1	8	661	GLN
1	8	666	GLN
1	8	679	ASN
1	8	684	ASN
1	8	694	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

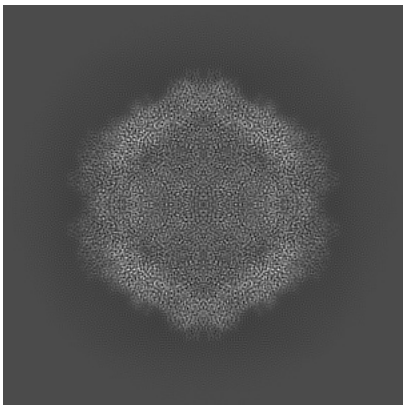
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-64272. These allow visual inspection of the internal detail of the map and identification of artifacts.

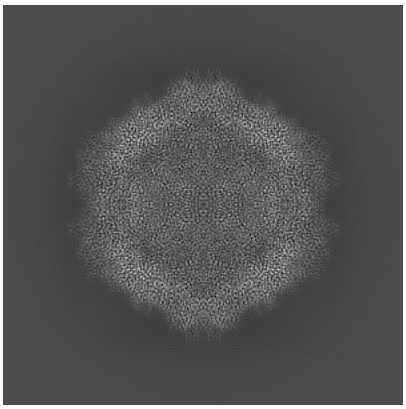
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

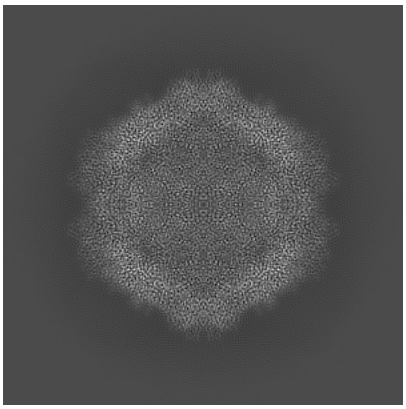
6.1.1 Primary map



X

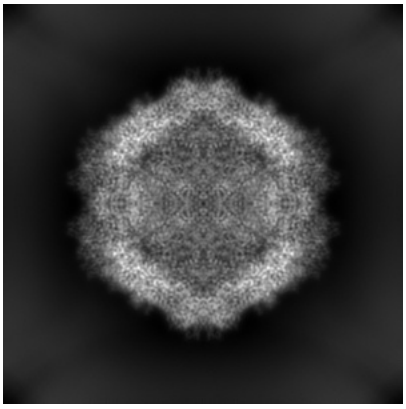


Y

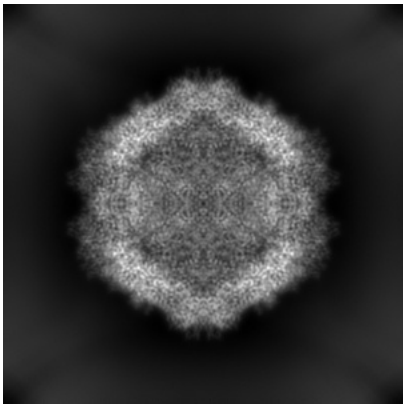


Z

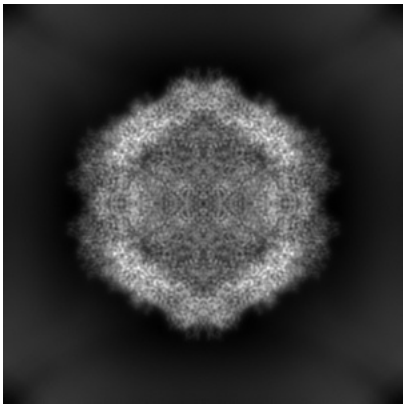
6.1.2 Raw map



X



Y

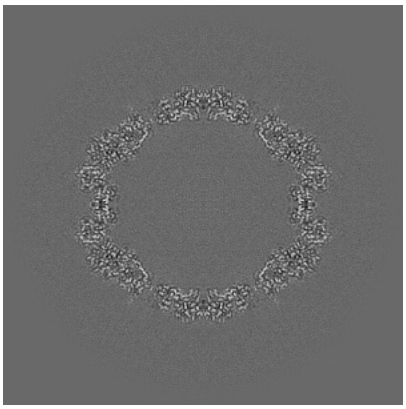


Z

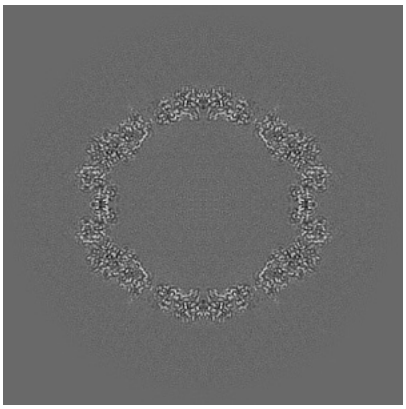
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

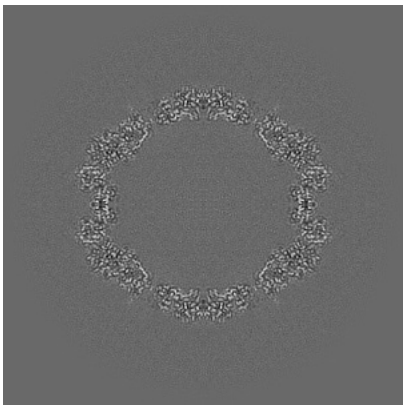
6.2.1 Primary map



X Index: 240

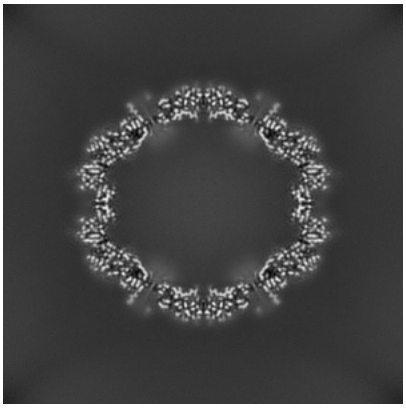


Y Index: 240

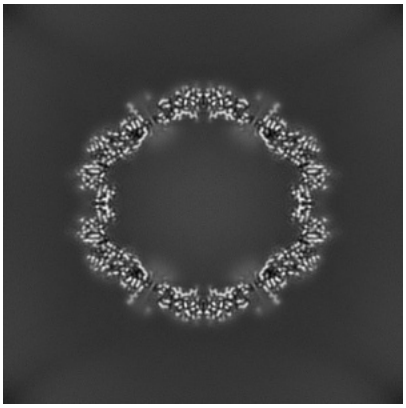


Z Index: 240

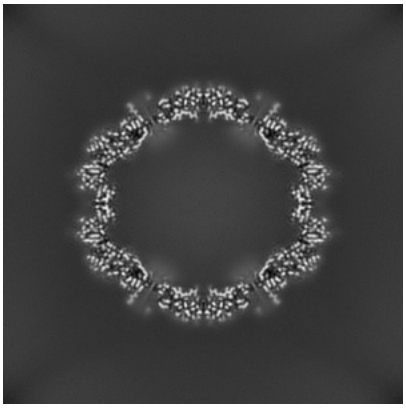
6.2.2 Raw map



X Index: 240



Y Index: 240

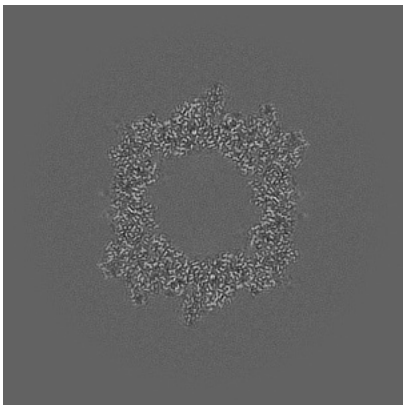


Z Index: 240

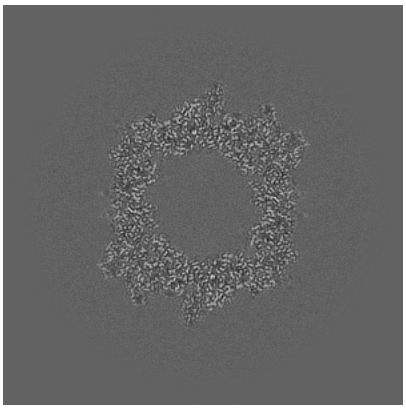
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

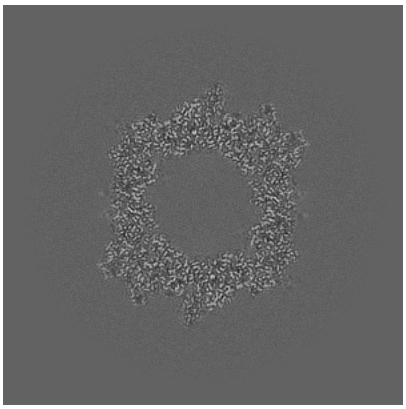
6.3.1 Primary map



X Index: 321

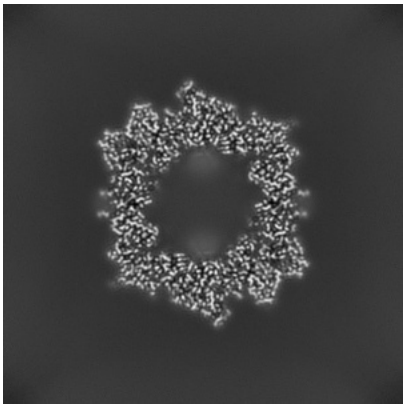


Y Index: 321

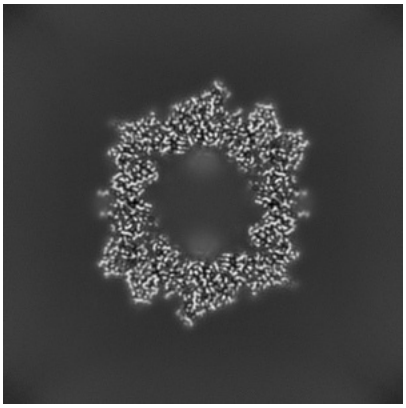


Z Index: 321

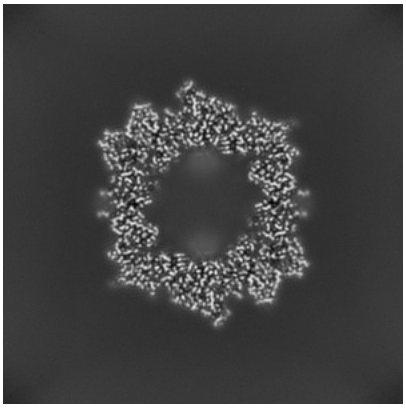
6.3.2 Raw map



X Index: 161



Y Index: 319

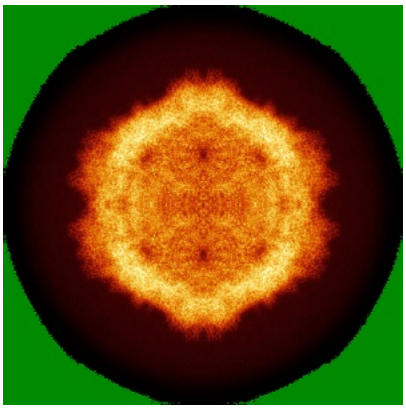


Z Index: 161

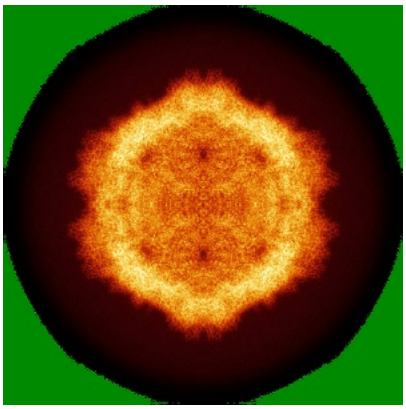
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

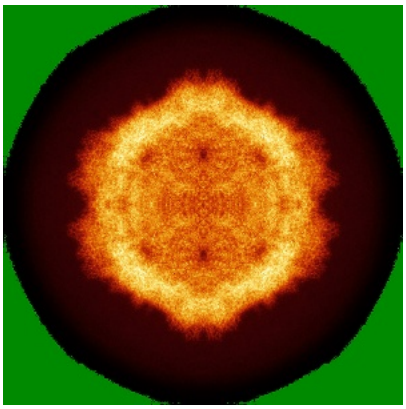
6.4.1 Primary map



X

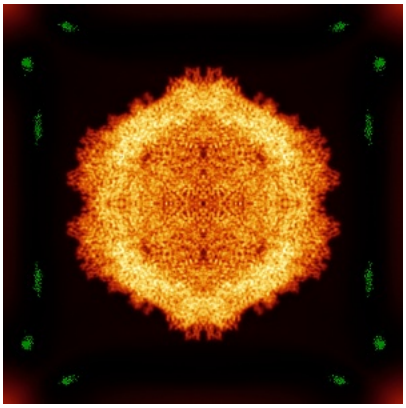


Y

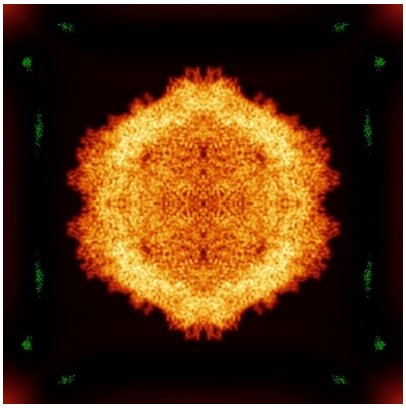


Z

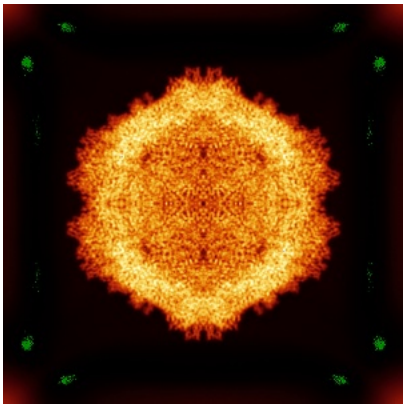
6.4.2 Raw map



X



Y

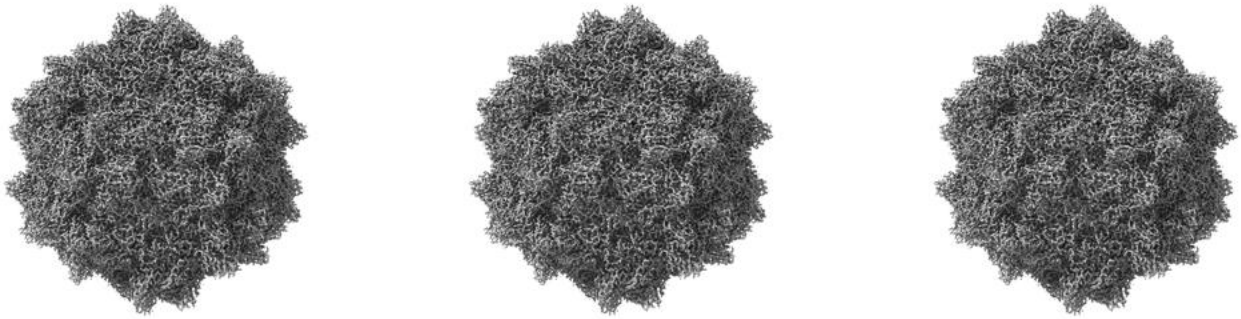


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

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

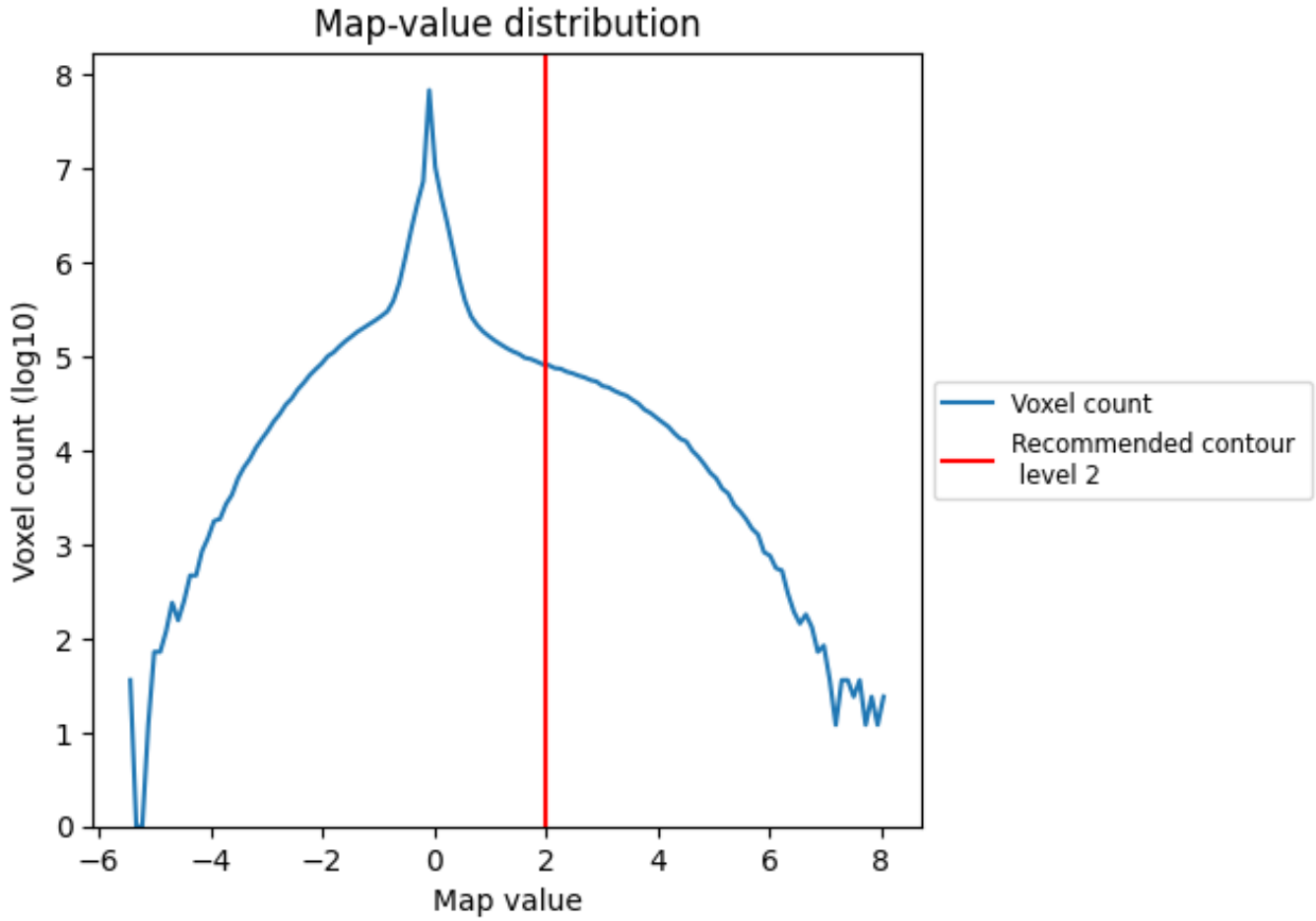
6.6 Mask visualisation (i)

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

7 Map analysis

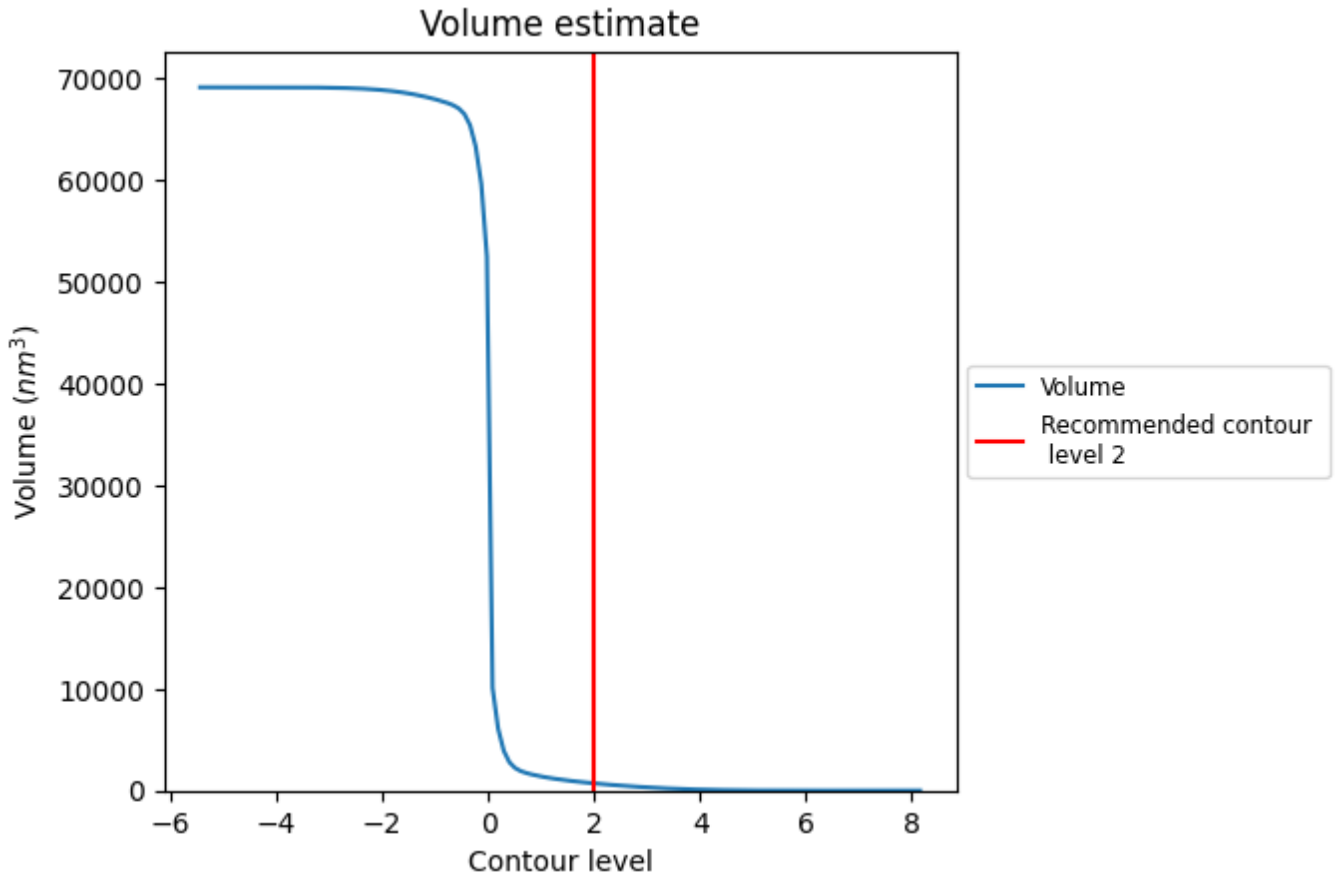
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

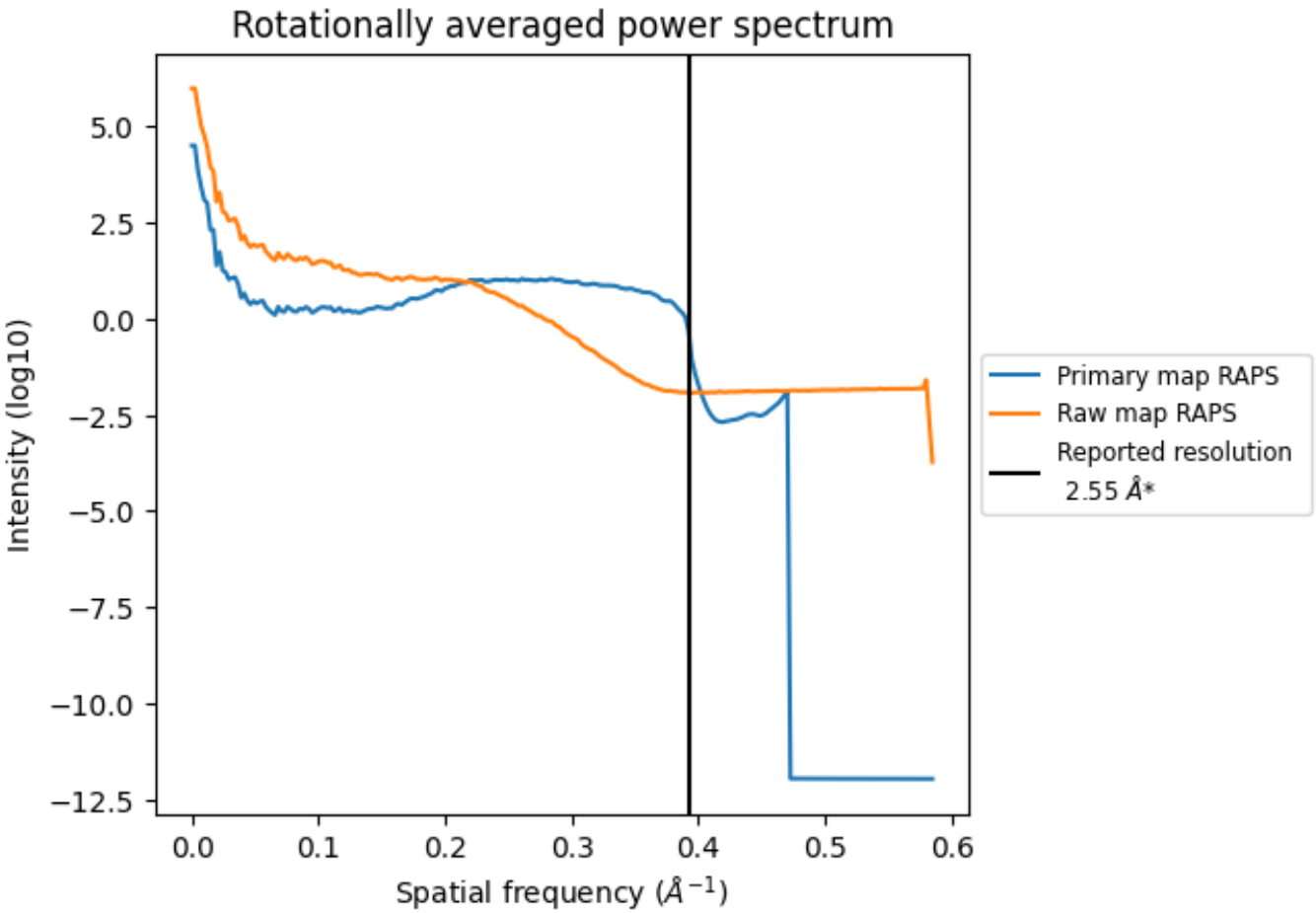
7.2 Volume estimate



The volume at the recommended contour level is 711 nm^3; this corresponds to an approximate mass of 642 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)

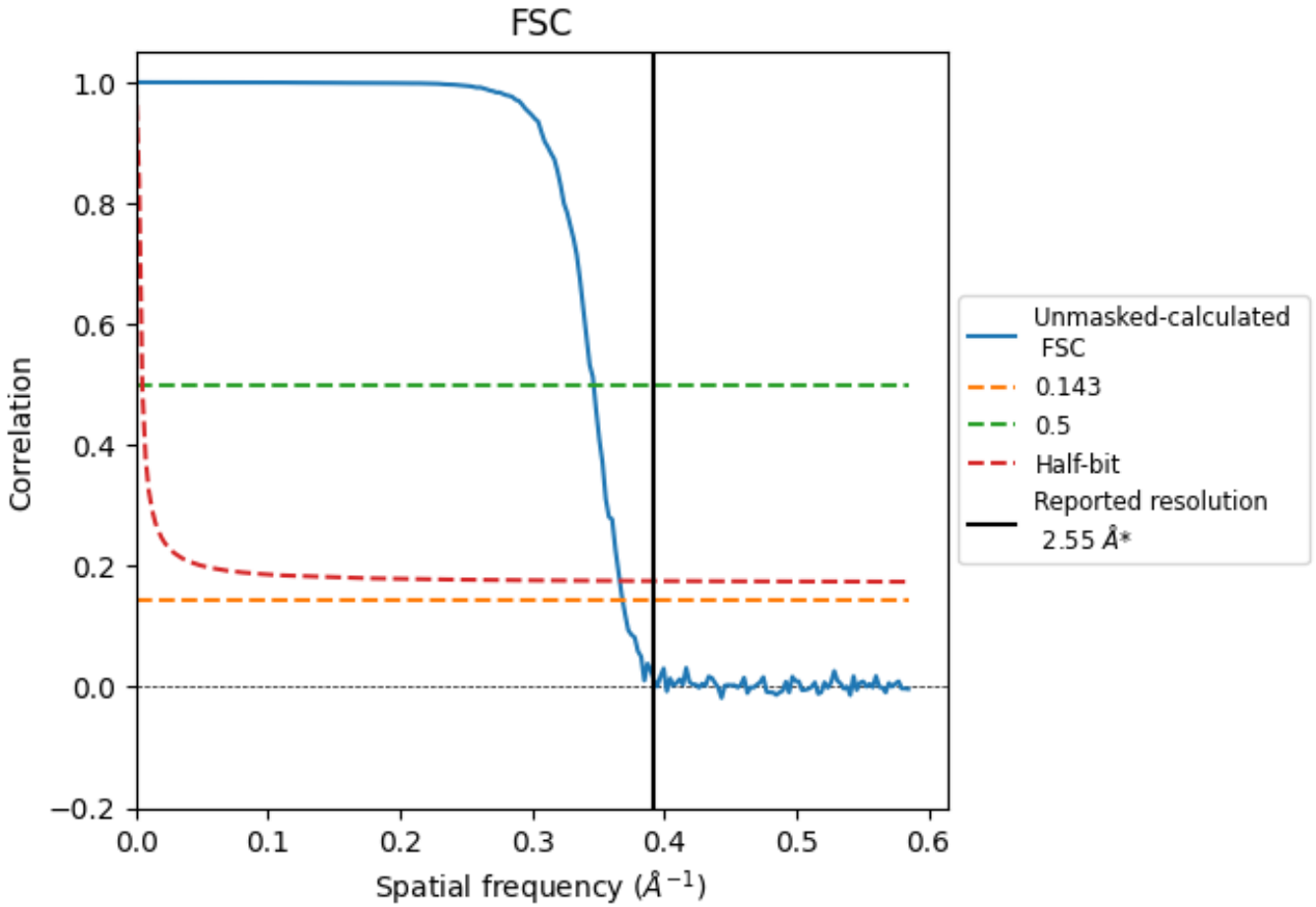


*Reported resolution corresponds to spatial frequency of 0.392 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.392 $Å^{-1}$

8.2 Resolution estimates (i)

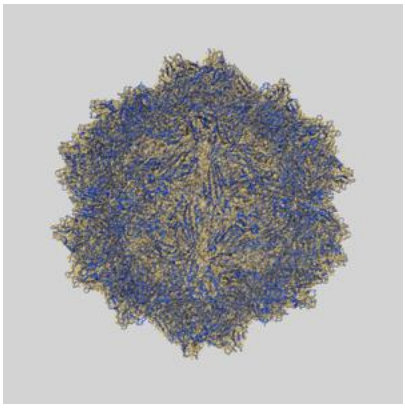
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.55	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.71	2.89	2.73

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

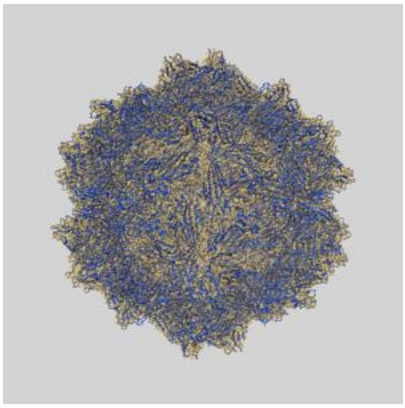
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-64272 and PDB model 9UMB. Per-residue inclusion information can be found in section 3 on page 12.

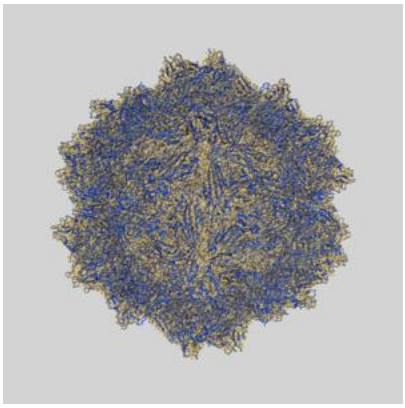
9.1 Map-model overlay



X



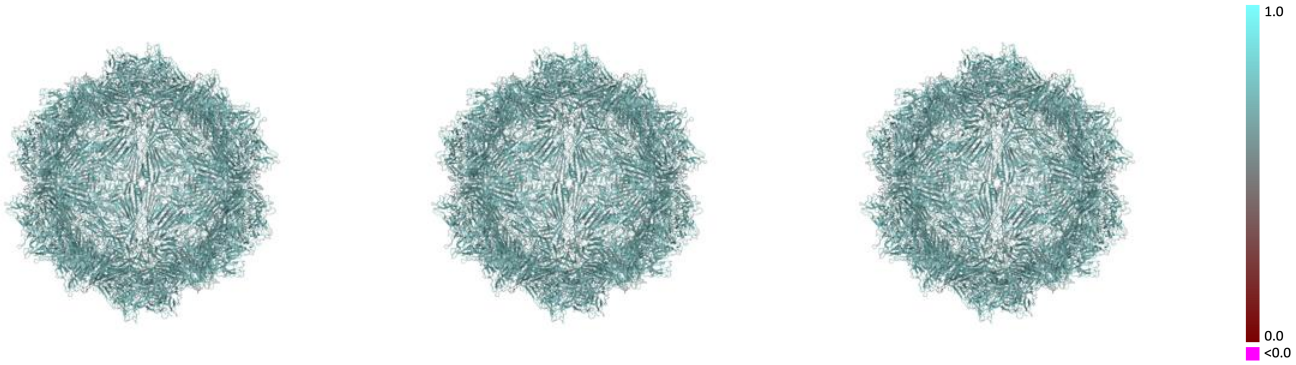
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 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.

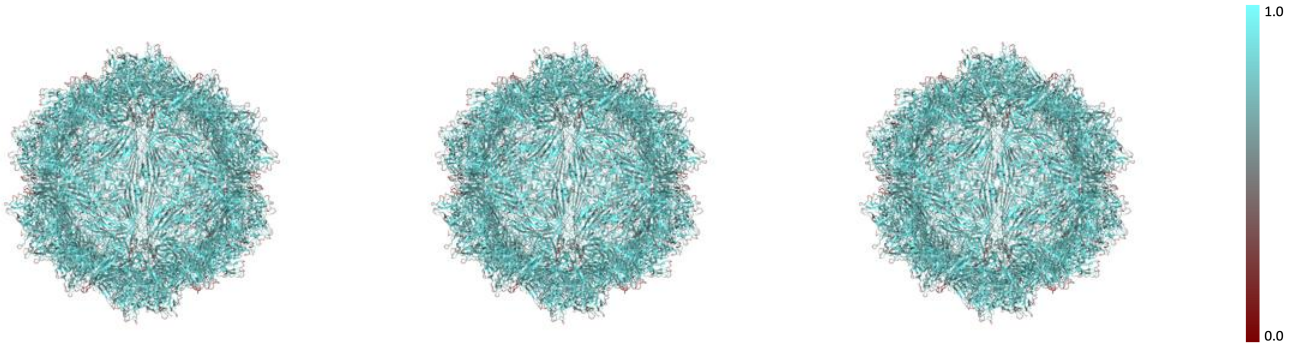
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according 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.

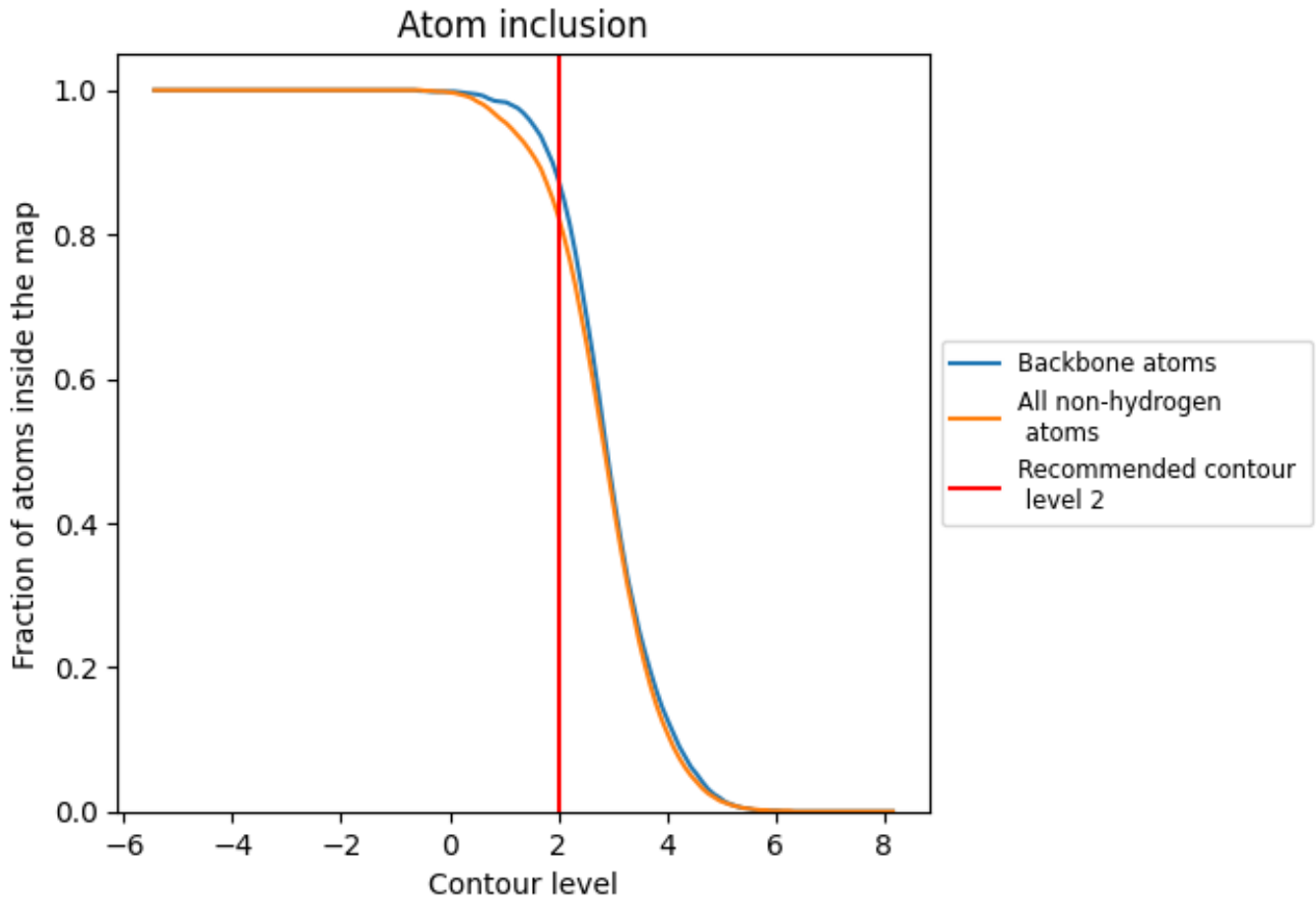
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (2).

9.4 Atom inclusion (i)



At the recommended contour level, 88% of all backbone atoms, 82% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8250	0.6940
1	0.8240	0.6940
2	0.8240	0.6940
3	0.8240	0.6930
4	0.8250	0.6930
5	0.8240	0.6930
6	0.8310	0.6970
7	0.8250	0.6930
8	0.8240	0.6930
A	0.8310	0.6950
B	0.8240	0.6930
C	0.8310	0.6960
D	0.8250	0.6930
E	0.8230	0.6930
F	0.8230	0.6940
G	0.8230	0.6940
H	0.8230	0.6940
I	0.8240	0.6940
J	0.8240	0.6940
K	0.8310	0.6980
L	0.8250	0.6940
M	0.8240	0.6940
N	0.8230	0.6930
O	0.8230	0.6940
P	0.8230	0.6930
Q	0.8240	0.6940
R	0.8310	0.6980
S	0.8250	0.6940
T	0.8310	0.6970
U	0.8250	0.6930
V	0.8240	0.6940
W	0.8240	0.6940
X	0.8240	0.6940
Y	0.8240	0.6930
Z	0.8250	0.6930

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Chain	Atom inclusion	Q-score
a	0.8240	0.6930
b	0.8310	0.6960
c	0.8250	0.6920
d	0.8240	0.6930
e	0.8310	0.6960
f	0.8240	0.6930
g	0.8310	0.6960
h	0.8250	0.6930
i	0.8230	0.6930
j	0.8230	0.6930
k	0.8230	0.6930
l	0.8230	0.6940
m	0.8240	0.6940
n	0.8240	0.6940
o	0.8310	0.6970
p	0.8250	0.6950
q	0.8240	0.6940
r	0.8230	0.6930
s	0.8230	0.6940
t	0.8230	0.6930
u	0.8240	0.6940
v	0.8310	0.6980
w	0.8250	0.6940
x	0.8310	0.6970
y	0.8250	0.6930
z	0.8240	0.6940