

Integrative Structure Validation Report ?

July 22, 2024 - 04:49 PM PDT

The following software was used in the production of this report:

Python-IHM Version 1.3
Integrative Modeling Validation Version 1.2

PDB ID	9A25
PDB-Dev ID	PDBDEV_00000142
Structure Title	Molecular assembly pathway of the human Nuclear Pore Complex after cell division
Structure Authors	Jeremy O. B. Tempkin

This is a PDB-Dev IM Structure Validation Report for a publicly released PDB-Dev entry.

We welcome your comments at pdb-dev@mail.wwpdb.org

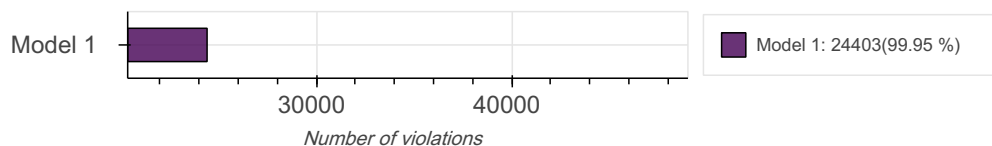
A user guide is available at https://pdb-dev.wwpdb.org/validation_help.html with specific help available everywhere you see the ? symbol.

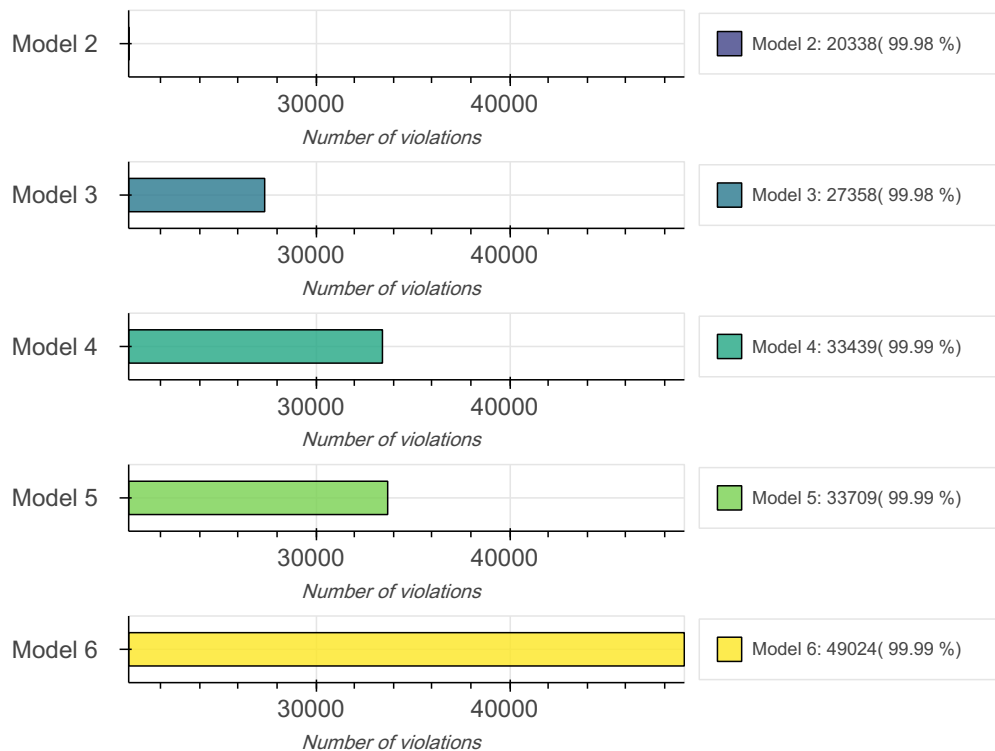
List of references used to build this report is available [here](#).

Overall quality ?

This validation report contains model quality assessments for all structures, data quality assessment for SAS datasets and fit to model assessments for SAS datasets. Data quality and fit to model assessments for other datasets and model uncertainty are under development. Number of plots is limited to 256.

Model Quality: Excluded Volume Analysis





Ensemble information ?

This entry consists of 0 distinct ensemble(s).

Summary ?

This entry consists of 6 unique models, with 300 subunits in each model. A total of 8 datasets or restraints were used to build this entry. Each model is represented by 1800 rigid bodies and 0 flexible or non-rigid units.

Entry composition ?

There are 6 unique types of models in this entry. These models are titled 5min_modelgroup/5min, 6min_modelgroup/6min, 8min_modelgroup/8min, 10min_modelgroup/10min, 15min_modelgroup/15min, mature_modelgroup/mature respectively.

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	1	1	Nup43	G	G	380
1	2	1	Nup43	X	X	380
1	3	1	Nup43	AO	AO	380
1	4	1	Nup43	BF	BF	380

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	5	1	Nup43	BW	BW	380
1	6	1	Nup43	CN	CN	380
1	7	1	Nup43	DE	DE	380
1	8	1	Nup43	DV	DV	380
1	9	2	Nup160	H	H	1436
1	10	2	Nup160	Y	Y	1436
1	11	2	Nup160	AP	AP	1436
1	12	2	Nup160	BG	BG	1436
1	13	2	Nup160	BX	BX	1436
1	14	2	Nup160	CO	CO	1436
1	15	2	Nup160	DF	DF	1436
1	16	2	Nup160	DW	DW	1436
1	17	3	Nup37	I	I	326
1	18	3	Nup37	Z	Z	326
1	19	3	Nup37	AQ	AQ	326
1	20	3	Nup37	BH	BH	326
1	21	3	Nup37	BY	BY	326
1	22	3	Nup37	CP	CP	326
1	23	3	Nup37	DG	DG	326
1	24	3	Nup37	DX	DX	326
1	25	4	Nup133	A	A	1156
1	26	4	Nup133	R	R	1156
1	27	4	Nup133	AI	AI	1156
1	28	4	Nup133	AZ	AZ	1156

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	29	4	Nup133	BQ	BQ	1156
1	30	4	Nup133	CH	CH	1156
1	31	4	Nup133	CY	CY	1156
1	32	4	Nup133	DP	DP	1156
1	33	5	Nup107	B	B	925
1	34	5	Nup107	S	S	925
1	35	5	Nup107	AJ	AJ	925
1	36	5	Nup107	BA	BA	925
1	37	5	Nup107	BR	BR	925
1	38	5	Nup107	CI	CI	925
1	39	5	Nup107	CZ	CZ	925
1	40	5	Nup107	DQ	DQ	925
1	41	6	Nup96	C	C	1817
1	42	6	Nup96	T	T	1817
1	43	6	Nup96	AK	AK	1817
1	44	6	Nup96	BB	BB	1817
1	45	6	Nup96	BS	BS	1817
1	46	6	Nup96	CJ	CJ	1817
1	47	6	Nup96	DA	DA	1817
1	48	6	Nup96	DR	DR	1817
1	49	7	SEC13	D	D	322
1	50	7	SEC13	U	U	322
1	51	7	SEC13	AL	AL	322
1	52	7	SEC13	BC	BC	322

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	53	7	SEC13	BT	BT	322
1	54	7	SEC13	CK	CK	322
1	55	7	SEC13	DB	DB	322
1	56	7	SEC13	DS	DS	322
1	57	8	SEH1	E	E	360
1	58	8	SEH1	V	V	360
1	59	8	SEH1	AM	AM	360
1	60	8	SEH1	BD	BD	360
1	61	8	SEH1	BU	BU	360
1	62	8	SEH1	CL	CL	360
1	63	8	SEH1	DC	DC	360
1	64	8	SEH1	DT	DT	360
1	65	9	Nup85	F	F	656
1	66	9	Nup85	W	W	656
1	67	9	Nup85	AN	AN	656
1	68	9	Nup85	BE	BE	656
1	69	9	Nup85	BV	BV	656
1	70	9	Nup85	CM	CM	656
1	71	9	Nup85	DD	DD	656
1	72	9	Nup85	DU	DU	656
1	73	10	Nup155	L	L	1391
1	74	10	Nup155	P	P	1391
1	75	10	Nup155	Q	Q	1391
1	76	10	Nup155	AC	AC	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	77	10	Nup155	AG	AG	1391
1	78	10	Nup155	AH	AH	1391
1	79	10	Nup155	AT	AT	1391
1	80	10	Nup155	AX	AX	1391
1	81	10	Nup155	AY	AY	1391
1	82	10	Nup155	BK	BK	1391
1	83	10	Nup155	BO	BO	1391
1	84	10	Nup155	BP	BP	1391
1	85	10	Nup155	CB	CB	1391
1	86	10	Nup155	CF	CF	1391
1	87	10	Nup155	CG	CG	1391
1	88	10	Nup155	CS	CS	1391
1	89	10	Nup155	CW	CW	1391
1	90	10	Nup155	CX	CX	1391
1	91	10	Nup155	DJ	DJ	1391
1	92	10	Nup155	DN	DN	1391
1	93	10	Nup155	DO	DO	1391
1	94	10	Nup155	EA	EA	1391
1	95	10	Nup155	EE	EE	1391
1	96	10	Nup155	EF	EF	1391
1	97	11	Nup93	J	J	819
1	98	11	Nup93	AA	AA	819
1	99	11	Nup93	AR	AR	819
1	100	11	Nup93	BI	BI	819

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	101	11	Nup93	BZ	BZ	819
1	102	11	Nup93	CQ	CQ	819
1	103	11	Nup93	DH	DH	819
1	104	11	Nup93	DY	DY	819
1	105	12	Nup205	K	K	2012
1	106	12	Nup205	AB	AB	2012
1	107	12	Nup205	AS	AS	2012
1	108	12	Nup205	BJ	BJ	2012
1	109	12	Nup205	CA	CA	2012
1	110	12	Nup205	CR	CR	2012
1	111	12	Nup205	DI	DI	2012
1	112	12	Nup205	DZ	DZ	2012
1	113	14	p54	M	M	507
1	114	14	p54	AD	AD	507
1	115	14	p54	AU	AU	507
1	116	14	p54	BL	BL	507
1	117	14	p54	CC	CC	507
1	118	14	p54	CT	CT	507
1	119	14	p54	DK	DK	507
1	120	14	p54	EB	EB	507
1	121	15	p58	N	N	599
1	122	15	p58	AE	AE	599
1	123	15	p58	AV	AV	599
1	124	15	p58	BM	BM	599

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	125	15	p58	CD	CD	599
1	126	15	p58	CU	CU	599
1	127	15	p58	DL	DL	599
1	128	15	p58	EC	EC	599
1	129	16	p62	O	O	522
1	130	16	p62	AF	AF	522
1	131	16	p62	AW	AW	522
1	132	16	p62	BN	BN	522
1	133	16	p62	CE	CE	522
1	134	16	p62	CV	CV	522
1	135	16	p62	DM	DM	522
1	136	16	p62	ED	ED	522
2	1	1	Nup43	EM	EM	380
2	2	1	Nup43	FG	FG	380
2	3	1	Nup43	GA	GA	380
2	4	1	Nup43	GU	GU	380
2	5	1	Nup43	HO	HO	380
2	6	1	Nup43	II	II	380
2	7	1	Nup43	JC	JC	380
2	8	1	Nup43	JW	JW	380
2	9	2	Nup160	EN	EN	1436
2	10	2	Nup160	FH	FH	1436
2	11	2	Nup160	GB	GB	1436
2	12	2	Nup160	GV	GV	1436

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	13	2	Nup160	HP	HP	1436
2	14	2	Nup160	IJ	IJ	1436
2	15	2	Nup160	JD	JD	1436
2	16	2	Nup160	JX	JX	1436
2	17	3	Nup37	EO	EO	326
2	18	3	Nup37	FI	FI	326
2	19	3	Nup37	GC	GC	326
2	20	3	Nup37	GW	GW	326
2	21	3	Nup37	HQ	HQ	326
2	22	3	Nup37	IK	IK	326
2	23	3	Nup37	JE	JE	326
2	24	3	Nup37	JY	JY	326
2	25	4	Nup133	EG	EG	1156
2	26	4	Nup133	FA	FA	1156
2	27	4	Nup133	FU	FU	1156
2	28	4	Nup133	GO	GO	1156
2	29	4	Nup133	HI	HI	1156
2	30	4	Nup133	IC	IC	1156
2	31	4	Nup133	IW	IW	1156
2	32	4	Nup133	JQ	JQ	1156
2	33	5	Nup107	EH	EH	925
2	34	5	Nup107	FB	FB	925
2	35	5	Nup107	FV	FV	925
2	36	5	Nup107	GP	GP	925

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	37	5	Nup107	HJ	HJ	925
2	38	5	Nup107	ID	ID	925
2	39	5	Nup107	IX	IX	925
2	40	5	Nup107	JR	JR	925
2	41	6	Nup96	EI	EI	1817
2	42	6	Nup96	FC	FC	1817
2	43	6	Nup96	FW	FW	1817
2	44	6	Nup96	GQ	GQ	1817
2	45	6	Nup96	HK	HK	1817
2	46	6	Nup96	IE	IE	1817
2	47	6	Nup96	IY	IY	1817
2	48	6	Nup96	JS	JS	1817
2	49	7	SEC13	EJ	EJ	322
2	50	7	SEC13	FD	FD	322
2	51	7	SEC13	FX	FX	322
2	52	7	SEC13	GR	GR	322
2	53	7	SEC13	HL	HL	322
2	54	7	SEC13	IF	IF	322
2	55	7	SEC13	IZ	IZ	322
2	56	7	SEC13	JT	JT	322
2	57	8	SEH1	EK	EK	360
2	58	8	SEH1	FE	FE	360
2	59	8	SEH1	FY	FY	360
2	60	8	SEH1	GS	GS	360

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	61	8	SEH1	HM	HM	360
2	62	8	SEH1	IG	IG	360
2	63	8	SEH1	JA	JA	360
2	64	8	SEH1	JU	JU	360
2	65	9	Nup85	EL	EL	656
2	66	9	Nup85	FF	FF	656
2	67	9	Nup85	FZ	FZ	656
2	68	9	Nup85	GT	GT	656
2	69	9	Nup85	HN	HN	656
2	70	9	Nup85	IH	IH	656
2	71	9	Nup85	JB	JB	656
2	72	9	Nup85	JV	JV	656
2	73	10	Nup155	ER	ER	1391
2	74	10	Nup155	EU	EU	1391
2	75	10	Nup155	EY	EY	1391
2	76	10	Nup155	EZ	EZ	1391
2	77	10	Nup155	FL	FL	1391
2	78	10	Nup155	FO	FO	1391
2	79	10	Nup155	FS	FS	1391
2	80	10	Nup155	FT	FT	1391
2	81	10	Nup155	GF	GF	1391
2	82	10	Nup155	GI	GI	1391
2	83	10	Nup155	GM	GM	1391
2	84	10	Nup155	GN	GN	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	85	10	Nup155	GZ	GZ	1391
2	86	10	Nup155	HC	HC	1391
2	87	10	Nup155	HG	HG	1391
2	88	10	Nup155	HH	HH	1391
2	89	10	Nup155	HT	HT	1391
2	90	10	Nup155	HW	HW	1391
2	91	10	Nup155	IA	IA	1391
2	92	10	Nup155	IB	IB	1391
2	93	10	Nup155	IN	IN	1391
2	94	10	Nup155	IQ	IQ	1391
2	95	10	Nup155	IU	IU	1391
2	96	10	Nup155	IV	IV	1391
2	97	10	Nup155	JH	JH	1391
2	98	10	Nup155	JK	JK	1391
2	99	10	Nup155	JO	JO	1391
2	100	10	Nup155	JP	JP	1391
2	101	10	Nup155	KB	KB	1391
2	102	10	Nup155	KE	KE	1391
2	103	10	Nup155	KI	KI	1391
2	104	10	Nup155	KJ	KJ	1391
2	105	11	Nup93	EP	EP	819
2	106	11	Nup93	ES	ES	819
2	107	11	Nup93	FJ	FJ	819
2	108	11	Nup93	FM	FM	819

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	109	11	Nup93	GD	GD	819
2	110	11	Nup93	GG	GG	819
2	111	11	Nup93	GX	GX	819
2	112	11	Nup93	HA	HA	819
2	113	11	Nup93	HR	HR	819
2	114	11	Nup93	HU	HU	819
2	115	11	Nup93	IL	IL	819
2	116	11	Nup93	IO	IO	819
2	117	11	Nup93	JF	JF	819
2	118	11	Nup93	JI	JI	819
2	119	11	Nup93	JZ	JZ	819
2	120	11	Nup93	KC	KC	819
2	121	12	Nup205	EQ	EQ	2012
2	122	12	Nup205	ET	ET	2012
2	123	12	Nup205	FK	FK	2012
2	124	12	Nup205	FN	FN	2012
2	125	12	Nup205	GE	GE	2012
2	126	12	Nup205	GH	GH	2012
2	127	12	Nup205	GY	GY	2012
2	128	12	Nup205	HB	HB	2012
2	129	12	Nup205	HS	HS	2012
2	130	12	Nup205	HV	HV	2012
2	131	12	Nup205	IM	IM	2012
2	132	12	Nup205	IP	IP	2012

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	133	12	Nup205	JG	JG	2012
2	134	12	Nup205	JJ	JJ	2012
2	135	12	Nup205	KA	KA	2012
2	136	12	Nup205	KD	KD	2012
2	137	14	p54	EV	EV	507
2	138	14	p54	FP	FP	507
2	139	14	p54	GJ	GJ	507
2	140	14	p54	HD	HD	507
2	141	14	p54	HX	HX	507
2	142	14	p54	IR	IR	507
2	143	14	p54	JL	JL	507
2	144	14	p54	KF	KF	507
2	145	15	p58	EW	EW	599
2	146	15	p58	FQ	FQ	599
2	147	15	p58	GK	GK	599
2	148	15	p58	HE	HE	599
2	149	15	p58	HY	HY	599
2	150	15	p58	IS	IS	599
2	151	15	p58	JM	JM	599
2	152	15	p58	KG	KG	599
2	153	16	p62	EX	EX	522
2	154	16	p62	FR	FR	522
2	155	16	p62	GL	GL	522
2	156	16	p62	HF	HF	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	157	16	p62	HZ	HZ	522
2	158	16	p62	IT	IT	522
2	159	16	p62	JN	JN	522
2	160	16	p62	KH	KH	522
3	1	1	Nup43	KQ	KQ	380
3	2	1	Nup43	KZ	KZ	380
3	3	1	Nup43	LZ	LZ	380
3	4	1	Nup43	MI	MI	380
3	5	1	Nup43	NI	NI	380
3	6	1	Nup43	NR	NR	380
3	7	1	Nup43	OR	OR	380
3	8	1	Nup43	PA	PA	380
3	9	1	Nup43	QA	QA	380
3	10	1	Nup43	QJ	QJ	380
3	11	1	Nup43	RJ	RJ	380
3	12	1	Nup43	RS	RS	380
3	13	1	Nup43	SS	SS	380
3	14	1	Nup43	TB	TB	380
3	15	1	Nup43	UB	UB	380
3	16	1	Nup43	UK	UK	380
3	17	2	Nup160	KR	KR	1436
3	18	2	Nup160	LA	LA	1436
3	19	2	Nup160	MA	MA	1436
3	20	2	Nup160	MJ	MJ	1436

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	21	2	Nup160	NJ	NJ	1436
3	22	2	Nup160	NS	NS	1436
3	23	2	Nup160	OS	OS	1436
3	24	2	Nup160	PB	PB	1436
3	25	2	Nup160	QB	QB	1436
3	26	2	Nup160	QK	QK	1436
3	27	2	Nup160	RK	RK	1436
3	28	2	Nup160	RT	RT	1436
3	29	2	Nup160	ST	ST	1436
3	30	2	Nup160	TC	TC	1436
3	31	2	Nup160	UC	UC	1436
3	32	2	Nup160	UL	UL	1436
3	33	3	Nup37	KS	KS	326
3	34	3	Nup37	LB	LB	326
3	35	3	Nup37	MB	MB	326
3	36	3	Nup37	MK	MK	326
3	37	3	Nup37	NK	NK	326
3	38	3	Nup37	NT	NT	326
3	39	3	Nup37	OT	OT	326
3	40	3	Nup37	PC	PC	326
3	41	3	Nup37	QC	QC	326
3	42	3	Nup37	QL	QL	326
3	43	3	Nup37	RL	RL	326
3	44	3	Nup37	RU	RU	326

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	45	3	Nup37	SU	SU	326
3	46	3	Nup37	TD	TD	326
3	47	3	Nup37	UD	UD	326
3	48	3	Nup37	UM	UM	326
3	49	4	Nup133	KK	KK	1156
3	50	4	Nup133	KT	KT	1156
3	51	4	Nup133	LT	LT	1156
3	52	4	Nup133	MC	MC	1156
3	53	4	Nup133	NC	NC	1156
3	54	4	Nup133	NL	NL	1156
3	55	4	Nup133	OL	OL	1156
3	56	4	Nup133	OU	OU	1156
3	57	4	Nup133	PU	PU	1156
3	58	4	Nup133	QD	QD	1156
3	59	4	Nup133	RD	RD	1156
3	60	4	Nup133	RM	RM	1156
3	61	4	Nup133	SM	SM	1156
3	62	4	Nup133	SV	SV	1156
3	63	4	Nup133	TV	TV	1156
3	64	4	Nup133	UE	UE	1156
3	65	5	Nup107	KL	KL	925
3	66	5	Nup107	KU	KU	925
3	67	5	Nup107	LU	LU	925
3	68	5	Nup107	MD	MD	925

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	69	5	Nup107	ND	ND	925
3	70	5	Nup107	NM	NM	925
3	71	5	Nup107	OM	OM	925
3	72	5	Nup107	OV	OV	925
3	73	5	Nup107	PV	PV	925
3	74	5	Nup107	QE	QE	925
3	75	5	Nup107	RE	RE	925
3	76	5	Nup107	RN	RN	925
3	77	5	Nup107	SN	SN	925
3	78	5	Nup107	SW	SW	925
3	79	5	Nup107	TW	TW	925
3	80	5	Nup107	UF	UF	925
3	81	6	Nup96	KM	KM	1817
3	82	6	Nup96	KV	KV	1817
3	83	6	Nup96	LV	LV	1817
3	84	6	Nup96	ME	ME	1817
3	85	6	Nup96	NE	NE	1817
3	86	6	Nup96	NN	NN	1817
3	87	6	Nup96	ON	ON	1817
3	88	6	Nup96	OW	OW	1817
3	89	6	Nup96	PW	PW	1817
3	90	6	Nup96	QF	QF	1817
3	91	6	Nup96	RF	RF	1817
3	92	6	Nup96	RO	RO	1817

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	93	6	Nup96	SO	SO	1817
3	94	6	Nup96	SX	SX	1817
3	95	6	Nup96	TX	TX	1817
3	96	6	Nup96	UG	UG	1817
3	97	7	SEC13	KN	KN	322
3	98	7	SEC13	KW	KW	322
3	99	7	SEC13	LW	LW	322
3	100	7	SEC13	MF	MF	322
3	101	7	SEC13	NF	NF	322
3	102	7	SEC13	NO	NO	322
3	103	7	SEC13	OO	OO	322
3	104	7	SEC13	OX	OX	322
3	105	7	SEC13	PX	PX	322
3	106	7	SEC13	QG	QG	322
3	107	7	SEC13	RG	RG	322
3	108	7	SEC13	RP	RP	322
3	109	7	SEC13	SP	SP	322
3	110	7	SEC13	SY	SY	322
3	111	7	SEC13	TY	TY	322
3	112	7	SEC13	UH	UH	322
3	113	8	SEH1	KO	KO	360
3	114	8	SEH1	KX	KX	360
3	115	8	SEH1	LX	LX	360
3	116	8	SEH1	MG	MG	360

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	117	8	SEH1	NG	NG	360
3	118	8	SEH1	NP	NP	360
3	119	8	SEH1	OP	OP	360
3	120	8	SEH1	OY	OY	360
3	121	8	SEH1	PY	PY	360
3	122	8	SEH1	QH	QH	360
3	123	8	SEH1	RH	RH	360
3	124	8	SEH1	RQ	RQ	360
3	125	8	SEH1	SQ	SQ	360
3	126	8	SEH1	SZ	SZ	360
3	127	8	SEH1	TZ	TZ	360
3	128	8	SEH1	UI	UI	360
3	129	9	Nup85	KP	KP	656
3	130	9	Nup85	KY	KY	656
3	131	9	Nup85	LY	LY	656
3	132	9	Nup85	MH	MH	656
3	133	9	Nup85	NH	NH	656
3	134	9	Nup85	NQ	NQ	656
3	135	9	Nup85	OQ	OQ	656
3	136	9	Nup85	OZ	OZ	656
3	137	9	Nup85	PZ	PZ	656
3	138	9	Nup85	QI	QI	656
3	139	9	Nup85	RI	RI	656
3	140	9	Nup85	RR	RR	656

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	141	9	Nup85	SR	SR	656
3	142	9	Nup85	TA	TA	656
3	143	9	Nup85	UA	UA	656
3	144	9	Nup85	UJ	UJ	656
3	145	10	Nup155	LE	LE	1391
3	146	10	Nup155	LH	LH	1391
3	147	10	Nup155	LR	LR	1391
3	148	10	Nup155	LS	LS	1391
3	149	10	Nup155	MN	MN	1391
3	150	10	Nup155	MQ	MQ	1391
3	151	10	Nup155	NA	NA	1391
3	152	10	Nup155	NB	NB	1391
3	153	10	Nup155	NW	NW	1391
3	154	10	Nup155	NZ	NZ	1391
3	155	10	Nup155	OJ	OJ	1391
3	156	10	Nup155	OK	OK	1391
3	157	10	Nup155	PF	PF	1391
3	158	10	Nup155	PI	PI	1391
3	159	10	Nup155	PS	PS	1391
3	160	10	Nup155	PT	PT	1391
3	161	10	Nup155	QO	QO	1391
3	162	10	Nup155	QR	QR	1391
3	163	10	Nup155	RB	RB	1391
3	164	10	Nup155	RC	RC	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	165	10	Nup155	RX	RX	1391
3	166	10	Nup155	SA	SA	1391
3	167	10	Nup155	SK	SK	1391
3	168	10	Nup155	SL	SL	1391
3	169	10	Nup155	TG	TG	1391
3	170	10	Nup155	TJ	TJ	1391
3	171	10	Nup155	TT	TT	1391
3	172	10	Nup155	TU	TU	1391
3	173	10	Nup155	UP	UP	1391
3	174	10	Nup155	US	US	1391
3	175	10	Nup155	VC	VC	1391
3	176	10	Nup155	VD	VD	1391
3	177	11	Nup93	LC	LC	819
3	178	11	Nup93	LF	LF	819
3	179	11	Nup93	ML	ML	819
3	180	11	Nup93	MO	MO	819
3	181	11	Nup93	NU	NU	819
3	182	11	Nup93	NX	NX	819
3	183	11	Nup93	PD	PD	819
3	184	11	Nup93	PG	PG	819
3	185	11	Nup93	QM	QM	819
3	186	11	Nup93	QP	QP	819
3	187	11	Nup93	RV	RV	819
3	188	11	Nup93	RY	RY	819

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	189	11	Nup93	TE	TE	819
3	190	11	Nup93	TH	TH	819
3	191	11	Nup93	UN	UN	819
3	192	11	Nup93	UQ	UQ	819
3	193	12	Nup205	LD	LD	2012
3	194	12	Nup205	LG	LG	2012
3	195	12	Nup205	MM	MM	2012
3	196	12	Nup205	MP	MP	2012
3	197	12	Nup205	NV	NV	2012
3	198	12	Nup205	NY	NY	2012
3	199	12	Nup205	PE	PE	2012
3	200	12	Nup205	PH	PH	2012
3	201	12	Nup205	QN	QN	2012
3	202	12	Nup205	QQ	QQ	2012
3	203	12	Nup205	RW	RW	2012
3	204	12	Nup205	RZ	RZ	2012
3	205	12	Nup205	TF	TF	2012
3	206	12	Nup205	TI	TI	2012
3	207	12	Nup205	UO	UO	2012
3	208	12	Nup205	UR	UR	2012
3	209	14	p54	LI	LI	507
3	210	14	p54	LL	LL	507
3	211	14	p54	LO	LO	507
3	212	14	p54	MR	MR	507

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	213	14	p54	MU	MU	507
3	214	14	p54	MX	MX	507
3	215	14	p54	OA	OA	507
3	216	14	p54	OD	OD	507
3	217	14	p54	OG	OG	507
3	218	14	p54	PJ	PJ	507
3	219	14	p54	PM	PM	507
3	220	14	p54	PP	PP	507
3	221	14	p54	QS	QS	507
3	222	14	p54	QV	QV	507
3	223	14	p54	QY	QY	507
3	224	14	p54	SB	SB	507
3	225	14	p54	SE	SE	507
3	226	14	p54	SH	SH	507
3	227	14	p54	TK	TK	507
3	228	14	p54	TN	TN	507
3	229	14	p54	TQ	TQ	507
3	230	14	p54	UT	UT	507
3	231	14	p54	UW	UW	507
3	232	14	p54	UZ	UZ	507
3	233	15	p58	LJ	LJ	599
3	234	15	p58	LM	LM	599
3	235	15	p58	LP	LP	599
3	236	15	p58	MS	MS	599

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	237	15	p58	MV	MV	599
3	238	15	p58	MY	MY	599
3	239	15	p58	OB	OB	599
3	240	15	p58	OE	OE	599
3	241	15	p58	OH	OH	599
3	242	15	p58	PK	PK	599
3	243	15	p58	PN	PN	599
3	244	15	p58	PQ	PQ	599
3	245	15	p58	QT	QT	599
3	246	15	p58	QW	QW	599
3	247	15	p58	QZ	QZ	599
3	248	15	p58	SC	SC	599
3	249	15	p58	SF	SF	599
3	250	15	p58	SI	SI	599
3	251	15	p58	TL	TL	599
3	252	15	p58	TO	TO	599
3	253	15	p58	TR	TR	599
3	254	15	p58	UU	UU	599
3	255	15	p58	UX	UX	599
3	256	15	p58	VA	VA	599
3	257	16	p62	LK	LK	522
3	258	16	p62	LN	LN	522
3	259	16	p62	LQ	LQ	522
3	260	16	p62	MT	MT	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	261	16	p62	MW	MW	522
3	262	16	p62	MZ	MZ	522
3	263	16	p62	OC	OC	522
3	264	16	p62	OF	OF	522
3	265	16	p62	OI	OI	522
3	266	16	p62	PL	PL	522
3	267	16	p62	PO	PO	522
3	268	16	p62	PR	PR	522
3	269	16	p62	QU	QU	522
3	270	16	p62	QX	QX	522
3	271	16	p62	RA	RA	522
3	272	16	p62	SD	SD	522
3	273	16	p62	SG	SG	522
3	274	16	p62	SJ	SJ	522
3	275	16	p62	TM	TM	522
3	276	16	p62	TP	TP	522
3	277	16	p62	TS	TS	522
3	278	16	p62	UV	UV	522
3	279	16	p62	UY	UY	522
3	280	16	p62	VB	VB	522
4	1	1	Nup43	VK	VK	380
4	2	1	Nup43	VT	VT	380
4	3	1	Nup43	WC	WC	380
4	4	1	Nup43	XC	XC	380

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	5	1	Nup43	XL	XL	380
4	6	1	Nup43	XU	XU	380
4	7	1	Nup43	YU	YU	380
4	8	1	Nup43	ZD	ZD	380
4	9	1	Nup43	ZM	ZM	380
4	10	1	Nup43	AAM	AAM	380
4	11	1	Nup43	AAV	AAV	380
4	12	1	Nup43	ABE	ABE	380
4	13	1	Nup43	ACE	ACE	380
4	14	1	Nup43	ACN	ACN	380
4	15	1	Nup43	ACW	ACW	380
4	16	1	Nup43	ADW	ADW	380
4	17	1	Nup43	AEF	AEF	380
4	18	1	Nup43	AEO	AEO	380
4	19	1	Nup43	AFO	AFO	380
4	20	1	Nup43	AFX	AFX	380
4	21	1	Nup43	AGG	AGG	380
4	22	1	Nup43	AHG	AHG	380
4	23	1	Nup43	AHP	AHP	380
4	24	1	Nup43	AHY	AHY	380
4	25	2	Nup160	VL	VL	1436
4	26	2	Nup160	VU	VU	1436
4	27	2	Nup160	WD	WD	1436
4	28	2	Nup160	XD	XD	1436

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	29	2	Nup160	XM	XM	1436
4	30	2	Nup160	XV	XV	1436
4	31	2	Nup160	YV	YV	1436
4	32	2	Nup160	ZE	ZE	1436
4	33	2	Nup160	ZN	ZN	1436
4	34	2	Nup160	AAN	AAN	1436
4	35	2	Nup160	AAW	AAW	1436
4	36	2	Nup160	ABF	ABF	1436
4	37	2	Nup160	ACF	ACF	1436
4	38	2	Nup160	ACO	ACO	1436
4	39	2	Nup160	ACX	ACX	1436
4	40	2	Nup160	ADX	ADX	1436
4	41	2	Nup160	AEG	AEG	1436
4	42	2	Nup160	AEP	AEP	1436
4	43	2	Nup160	AFP	AFP	1436
4	44	2	Nup160	AFY	AFY	1436
4	45	2	Nup160	AGH	AGH	1436
4	46	2	Nup160	AHH	AHH	1436
4	47	2	Nup160	AHQ	AHQ	1436
4	48	2	Nup160	AHZ	AHZ	1436
4	49	3	Nup37	VM	VM	326
4	50	3	Nup37	VV	VV	326
4	51	3	Nup37	WE	WE	326
4	52	3	Nup37	XE	XE	326

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	53	3	Nup37	XN	XN	326
4	54	3	Nup37	XW	XW	326
4	55	3	Nup37	YW	YW	326
4	56	3	Nup37	ZF	ZF	326
4	57	3	Nup37	ZO	ZO	326
4	58	3	Nup37	AAO	AAO	326
4	59	3	Nup37	AAX	AAX	326
4	60	3	Nup37	ABG	ABG	326
4	61	3	Nup37	ACG	ACG	326
4	62	3	Nup37	ACP	ACP	326
4	63	3	Nup37	ACY	ACY	326
4	64	3	Nup37	ADY	ADY	326
4	65	3	Nup37	AEH	AEH	326
4	66	3	Nup37	AEQ	AEQ	326
4	67	3	Nup37	AFQ	AFQ	326
4	68	3	Nup37	AFZ	AFZ	326
4	69	3	Nup37	AGI	AGI	326
4	70	3	Nup37	AHI	AHI	326
4	71	3	Nup37	AHR	AHR	326
4	72	3	Nup37	AIA	AIA	326
4	73	4	Nup133	VE	VE	1156
4	74	4	Nup133	VN	VN	1156
4	75	4	Nup133	VW	VW	1156
4	76	4	Nup133	WW	WW	1156

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	77	4	Nup133	XF	XF	1156
4	78	4	Nup133	XO	XO	1156
4	79	4	Nup133	YO	YO	1156
4	80	4	Nup133	YX	YX	1156
4	81	4	Nup133	ZG	ZG	1156
4	82	4	Nup133	AAG	AAG	1156
4	83	4	Nup133	AAP	AAP	1156
4	84	4	Nup133	AAZ	AAZ	1156
4	85	4	Nup133	ABY	ABY	1156
4	86	4	Nup133	ACH	ACH	1156
4	87	4	Nup133	ACQ	ACQ	1156
4	88	4	Nup133	ADQ	ADQ	1156
4	89	4	Nup133	ADZ	ADZ	1156
4	90	4	Nup133	AEI	AEI	1156
4	91	4	Nup133	AFI	AFI	1156
4	92	4	Nup133	AFR	AFR	1156
4	93	4	Nup133	AGA	AGA	1156
4	94	4	Nup133	AHA	AHA	1156
4	95	4	Nup133	AHJ	AHJ	1156
4	96	4	Nup133	AHS	AHS	1156
4	97	5	Nup107	VF	VF	925
4	98	5	Nup107	VO	VO	925
4	99	5	Nup107	VX	VX	925
4	100	5	Nup107	WX	WX	925

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	101	5	Nup107	XG	XG	925
4	102	5	Nup107	XP	XP	925
4	103	5	Nup107	YP	YP	925
4	104	5	Nup107	YY	YY	925
4	105	5	Nup107	ZH	ZH	925
4	106	5	Nup107	AAH	AAH	925
4	107	5	Nup107	AAQ	AAQ	925
4	108	5	Nup107	AAZ	AAZ	925
4	109	5	Nup107	ABZ	ABZ	925
4	110	5	Nup107	ACI	ACI	925
4	111	5	Nup107	ACR	ACR	925
4	112	5	Nup107	ADR	ADR	925
4	113	5	Nup107	AEA	AEA	925
4	114	5	Nup107	AEJ	AEJ	925
4	115	5	Nup107	AFJ	AFJ	925
4	116	5	Nup107	AFS	AFS	925
4	117	5	Nup107	AGB	AGB	925
4	118	5	Nup107	AHB	AHB	925
4	119	5	Nup107	AHK	AHK	925
4	120	5	Nup107	AHT	AHT	925
4	121	6	Nup96	VG	VG	1817
4	122	6	Nup96	VP	VP	1817
4	123	6	Nup96	VY	VY	1817
4	124	6	Nup96	WY	WY	1817

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	125	6	Nup96	XH	XH	1817
4	126	6	Nup96	XQ	XQ	1817
4	127	6	Nup96	YQ	YQ	1817
4	128	6	Nup96	YZ	YZ	1817
4	129	6	Nup96	ZI	ZI	1817
4	130	6	Nup96	AAI	AAI	1817
4	131	6	Nup96	AAR	AAR	1817
4	132	6	Nup96	ABA	ABA	1817
4	133	6	Nup96	ACA	ACA	1817
4	134	6	Nup96	ACJ	ACJ	1817
4	135	6	Nup96	ACS	ACS	1817
4	136	6	Nup96	ADS	ADS	1817
4	137	6	Nup96	AEB	AEB	1817
4	138	6	Nup96	AEK	AEK	1817
4	139	6	Nup96	AFK	AFK	1817
4	140	6	Nup96	AFT	AFT	1817
4	141	6	Nup96	AGC	AGC	1817
4	142	6	Nup96	AHC	AHC	1817
4	143	6	Nup96	AHL	AHL	1817
4	144	6	Nup96	AHU	AHU	1817
4	145	7	SEC13	VH	VH	322
4	146	7	SEC13	VQ	VQ	322
4	147	7	SEC13	VZ	VZ	322
4	148	7	SEC13	WZ	WZ	322

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	149	7	SEC13	XI	XI	322
4	150	7	SEC13	XR	XR	322
4	151	7	SEC13	YR	YR	322
4	152	7	SEC13	ZA	ZA	322
4	153	7	SEC13	ZJ	ZJ	322
4	154	7	SEC13	AAJ	AAJ	322
4	155	7	SEC13	AAS	AAS	322
4	156	7	SEC13	ABB	ABB	322
4	157	7	SEC13	ACB	ACB	322
4	158	7	SEC13	ACK	ACK	322
4	159	7	SEC13	ACT	ACT	322
4	160	7	SEC13	ADT	ADT	322
4	161	7	SEC13	AEC	AEC	322
4	162	7	SEC13	AEL	AEL	322
4	163	7	SEC13	AFL	AFL	322
4	164	7	SEC13	AFU	AFU	322
4	165	7	SEC13	AGD	AGD	322
4	166	7	SEC13	AHD	AHD	322
4	167	7	SEC13	AHM	AHM	322
4	168	7	SEC13	AHV	AHV	322
4	169	8	SEH1	VI	VI	360
4	170	8	SEH1	VR	VR	360
4	171	8	SEH1	WA	WA	360
4	172	8	SEH1	XA	XA	360

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	173	8	SEH1	XJ	XJ	360
4	174	8	SEH1	XS	XS	360
4	175	8	SEH1	YS	YS	360
4	176	8	SEH1	ZB	ZB	360
4	177	8	SEH1	ZK	ZK	360
4	178	8	SEH1	AAK	AAK	360
4	179	8	SEH1	AAT	AAT	360
4	180	8	SEH1	ABC	ABC	360
4	181	8	SEH1	ACC	ACC	360
4	182	8	SEH1	ACL	ACL	360
4	183	8	SEH1	ACU	ACU	360
4	184	8	SEH1	ADU	ADU	360
4	185	8	SEH1	AED	AED	360
4	186	8	SEH1	AEM	AEM	360
4	187	8	SEH1	AFM	AFM	360
4	188	8	SEH1	AFV	AFV	360
4	189	8	SEH1	AGE	AGE	360
4	190	8	SEH1	AHE	AHE	360
4	191	8	SEH1	AHN	AHN	360
4	192	8	SEH1	AHW	AHW	360
4	193	9	Nup85	VJ	VJ	656
4	194	9	Nup85	VS	VS	656
4	195	9	Nup85	WB	WB	656
4	196	9	Nup85	XB	XB	656

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	197	9	Nup85	XK	XK	656
4	198	9	Nup85	XT	XT	656
4	199	9	Nup85	YT	YT	656
4	200	9	Nup85	ZC	ZC	656
4	201	9	Nup85	ZL	ZL	656
4	202	9	Nup85	AAL	AAL	656
4	203	9	Nup85	AAU	AAU	656
4	204	9	Nup85	ABD	ABD	656
4	205	9	Nup85	ACD	ACD	656
4	206	9	Nup85	ACM	ACM	656
4	207	9	Nup85	ACV	ACV	656
4	208	9	Nup85	ADV	ADV	656
4	209	9	Nup85	AEE	AEE	656
4	210	9	Nup85	AEN	AEN	656
4	211	9	Nup85	AFN	AFN	656
4	212	9	Nup85	AFW	AFW	656
4	213	9	Nup85	AGF	AGF	656
4	214	9	Nup85	AHF	AHF	656
4	215	9	Nup85	AHO	AHO	656
4	216	9	Nup85	AHX	AHX	656
4	217	10	Nup155	WH	WH	1391
4	218	10	Nup155	WK	WK	1391
4	219	10	Nup155	WU	WU	1391
4	220	10	Nup155	WV	WV	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	221	10	Nup155	XZ	XZ	1391
4	222	10	Nup155	YC	YC	1391
4	223	10	Nup155	YM	YM	1391
4	224	10	Nup155	YN	YN	1391
4	225	10	Nup155	ZR	ZR	1391
4	226	10	Nup155	ZU	ZU	1391
4	227	10	Nup155	AAE	AAE	1391
4	228	10	Nup155	AAF	AAF	1391
4	229	10	Nup155	ABJ	ABJ	1391
4	230	10	Nup155	ABM	ABM	1391
4	231	10	Nup155	ABW	ABW	1391
4	232	10	Nup155	ABX	ABX	1391
4	233	10	Nup155	ADB	ADB	1391
4	234	10	Nup155	ADE	ADE	1391
4	235	10	Nup155	ADO	ADO	1391
4	236	10	Nup155	ADP	ADP	1391
4	237	10	Nup155	AET	AET	1391
4	238	10	Nup155	AEW	AEW	1391
4	239	10	Nup155	AFG	AFG	1391
4	240	10	Nup155	AFH	AFH	1391
4	241	10	Nup155	AGL	AGL	1391
4	242	10	Nup155	AGO	AGO	1391
4	243	10	Nup155	AGY	AGY	1391
4	244	10	Nup155	AGZ	AGZ	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	245	10	Nup155	AID	AID	1391
4	246	10	Nup155	AIG	AIG	1391
4	247	10	Nup155	AIQ	AIQ	1391
4	248	10	Nup155	AIR	AIR	1391
4	249	11	Nup93	WF	WF	819
4	250	11	Nup93	WI	WI	819
4	251	11	Nup93	XX	XX	819
4	252	11	Nup93	YA	YA	819
4	253	11	Nup93	ZP	ZP	819
4	254	11	Nup93	ZS	ZS	819
4	255	11	Nup93	ABH	ABH	819
4	256	11	Nup93	ABK	ABK	819
4	257	11	Nup93	ACZ	ACZ	819
4	258	11	Nup93	ADC	ADC	819
4	259	11	Nup93	AER	AER	819
4	260	11	Nup93	AEU	AEU	819
4	261	11	Nup93	AGJ	AGJ	819
4	262	11	Nup93	AGM	AGM	819
4	263	11	Nup93	AIB	AIB	819
4	264	11	Nup93	AIE	AIE	819
4	265	12	Nup205	WG	WG	2012
4	266	12	Nup205	WJ	WJ	2012
4	267	12	Nup205	XY	XY	2012
4	268	12	Nup205	YB	YB	2012

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	269	12	Nup205	ZQ	ZQ	2012
4	270	12	Nup205	ZT	ZT	2012
4	271	12	Nup205	ABI	ABI	2012
4	272	12	Nup205	ABL	ABL	2012
4	273	12	Nup205	ADA	ADA	2012
4	274	12	Nup205	ADD	ADD	2012
4	275	12	Nup205	AES	AES	2012
4	276	12	Nup205	AEV	AEV	2012
4	277	12	Nup205	AGK	AGK	2012
4	278	12	Nup205	AGN	AGN	2012
4	279	12	Nup205	AIC	AIC	2012
4	280	12	Nup205	AIF	AIF	2012
4	281	14	p54	WL	WL	507
4	282	14	p54	WO	WO	507
4	283	14	p54	WR	WR	507
4	284	14	p54	YD	YD	507
4	285	14	p54	YG	YG	507
4	286	14	p54	YJ	YJ	507
4	287	14	p54	ZV	ZV	507
4	288	14	p54	ZY	ZY	507
4	289	14	p54	AAB	AAB	507
4	290	14	p54	ABN	ABN	507
4	291	14	p54	ABQ	ABQ	507
4	292	14	p54	ABT	ABT	507

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	293	14	p54	ADF	ADF	507
4	294	14	p54	ADI	ADI	507
4	295	14	p54	ADL	ADL	507
4	296	14	p54	AEX	AEX	507
4	297	14	p54	AFA	AFA	507
4	298	14	p54	AFD	AFD	507
4	299	14	p54	AGP	AGP	507
4	300	14	p54	AGS	AGS	507
4	301	14	p54	AGV	AGV	507
4	302	14	p54	AIH	AIH	507
4	303	14	p54	AIK	AIK	507
4	304	14	p54	AIN	AIN	507
4	305	15	p58	WM	WM	599
4	306	15	p58	WP	WP	599
4	307	15	p58	WS	WS	599
4	308	15	p58	YE	YE	599
4	309	15	p58	YH	YH	599
4	310	15	p58	YK	YK	599
4	311	15	p58	ZW	ZW	599
4	312	15	p58	ZZ	ZZ	599
4	313	15	p58	AAC	AAC	599
4	314	15	p58	ABO	ABO	599
4	315	15	p58	ABR	ABR	599
4	316	15	p58	ABU	ABU	599

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	317	15	p58	ADG	ADG	599
4	318	15	p58	ADJ	ADJ	599
4	319	15	p58	ADM	ADM	599
4	320	15	p58	AEY	AEY	599
4	321	15	p58	AFB	AFB	599
4	322	15	p58	AFE	AFE	599
4	323	15	p58	AGQ	AGQ	599
4	324	15	p58	AGT	AGT	599
4	325	15	p58	AGW	AGW	599
4	326	15	p58	All	All	599
4	327	15	p58	AIL	AIL	599
4	328	15	p58	AIO	AIO	599
4	329	16	p62	WN	WN	522
4	330	16	p62	WQ	WQ	522
4	331	16	p62	WT	WT	522
4	332	16	p62	YF	YF	522
4	333	16	p62	YI	YI	522
4	334	16	p62	YL	YL	522
4	335	16	p62	ZX	ZX	522
4	336	16	p62	AAA	AAA	522
4	337	16	p62	AAD	AAD	522
4	338	16	p62	ABP	ABP	522
4	339	16	p62	ABS	ABS	522
4	340	16	p62	ABV	ABV	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	341	16	p62	ADH	ADH	522
4	342	16	p62	ADK	ADK	522
4	343	16	p62	ADN	ADN	522
4	344	16	p62	AEZ	AEZ	522
4	345	16	p62	AFC	AFC	522
4	346	16	p62	AFF	AFF	522
4	347	16	p62	AGR	AGR	522
4	348	16	p62	AGU	AGU	522
4	349	16	p62	AGX	AGX	522
4	350	16	p62	AIJ	AIJ	522
4	351	16	p62	AIM	AIM	522
4	352	16	p62	AIP	AIP	522
5	1	1	Nup43	AIY	AIY	380
5	2	1	Nup43	AJH	AJH	380
5	3	1	Nup43	AJQ	AJQ	380
5	4	1	Nup43	AKT	AKT	380
5	5	1	Nup43	ALC	ALC	380
5	6	1	Nup43	ALL	ALL	380
5	7	1	Nup43	AMO	AMO	380
5	8	1	Nup43	AMX	AMX	380
5	9	1	Nup43	ANG	ANG	380
5	10	1	Nup43	AOJ	AOJ	380
5	11	1	Nup43	AOS	AOS	380
5	12	1	Nup43	APB	APB	380

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	13	1	Nup43	AQE	AQE	380
5	14	1	Nup43	AQN	AQN	380
5	15	1	Nup43	AQW	AQW	380
5	16	1	Nup43	ARZ	ARZ	380
5	17	1	Nup43	ASI	ASI	380
5	18	1	Nup43	ASR	ASR	380
5	19	1	Nup43	ATU	ATU	380
5	20	1	Nup43	AUD	AUD	380
5	21	1	Nup43	AUM	AUM	380
5	22	1	Nup43	AVP	AVP	380
5	23	1	Nup43	AVY	AVY	380
5	24	1	Nup43	AWH	AWH	380
5	25	2	Nup160	AIZ	AIZ	1436
5	26	2	Nup160	AJI	AJI	1436
5	27	2	Nup160	AJR	AJR	1436
5	28	2	Nup160	AKU	AKU	1436
5	29	2	Nup160	ALD	ALD	1436
5	30	2	Nup160	ALM	ALM	1436
5	31	2	Nup160	AMP	AMP	1436
5	32	2	Nup160	AMY	AMY	1436
5	33	2	Nup160	ANH	ANH	1436
5	34	2	Nup160	AOK	AOK	1436
5	35	2	Nup160	AOT	AOT	1436
5	36	2	Nup160	APC	APC	1436

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	37	2	Nup160	AQF	AQF	1436
5	38	2	Nup160	AQO	AQO	1436
5	39	2	Nup160	AQX	AQX	1436
5	40	2	Nup160	ASA	ASA	1436
5	41	2	Nup160	ASJ	ASJ	1436
5	42	2	Nup160	ASS	ASS	1436
5	43	2	Nup160	ATV	ATV	1436
5	44	2	Nup160	AUE	AUE	1436
5	45	2	Nup160	AUN	AUN	1436
5	46	2	Nup160	AVQ	AVQ	1436
5	47	2	Nup160	AVZ	AVZ	1436
5	48	2	Nup160	AWI	AWI	1436
5	49	3	Nup37	AJA	AJA	326
5	50	3	Nup37	AJJ	AJJ	326
5	51	3	Nup37	AJS	AJS	326
5	52	3	Nup37	AKV	AKV	326
5	53	3	Nup37	ALE	ALE	326
5	54	3	Nup37	ALN	ALN	326
5	55	3	Nup37	AMQ	AMQ	326
5	56	3	Nup37	AMZ	AMZ	326
5	57	3	Nup37	ANI	ANI	326
5	58	3	Nup37	AOL	AOL	326
5	59	3	Nup37	AOU	AOU	326
5	60	3	Nup37	APD	APD	326

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	61	3	Nup37	AQG	AQG	326
5	62	3	Nup37	AQP	AQP	326
5	63	3	Nup37	AQY	AQY	326
5	64	3	Nup37	ASB	ASB	326
5	65	3	Nup37	ASK	ASK	326
5	66	3	Nup37	AST	AST	326
5	67	3	Nup37	ATW	ATW	326
5	68	3	Nup37	AUF	AUF	326
5	69	3	Nup37	AUO	AUO	326
5	70	3	Nup37	AVR	AVR	326
5	71	3	Nup37	AWA	AWA	326
5	72	3	Nup37	AWJ	AWJ	326
5	73	4	Nup133	AIS	AIS	1156
5	74	4	Nup133	AJB	AJB	1156
5	75	4	Nup133	AJK	AJK	1156
5	76	4	Nup133	AKN	AKN	1156
5	77	4	Nup133	AKW	AKW	1156
5	78	4	Nup133	ALF	ALF	1156
5	79	4	Nup133	AMI	AMI	1156
5	80	4	Nup133	AMR	AMR	1156
5	81	4	Nup133	ANA	ANA	1156
5	82	4	Nup133	AOD	AOD	1156
5	83	4	Nup133	AOM	AOM	1156
5	84	4	Nup133	AOV	AOV	1156

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	85	4	Nup133	APY	APY	1156
5	86	4	Nup133	AQH	AQH	1156
5	87	4	Nup133	AQQ	AQQ	1156
5	88	4	Nup133	ART	ART	1156
5	89	4	Nup133	ASC	ASC	1156
5	90	4	Nup133	ASL	ASL	1156
5	91	4	Nup133	ATO	ATO	1156
5	92	4	Nup133	ATX	ATX	1156
5	93	4	Nup133	AUG	AUG	1156
5	94	4	Nup133	AVJ	AVJ	1156
5	95	4	Nup133	AVS	AVS	1156
5	96	4	Nup133	AWB	AWB	1156
5	97	5	Nup107	AIT	AIT	925
5	98	5	Nup107	AJC	AJC	925
5	99	5	Nup107	AJL	AJL	925
5	100	5	Nup107	AKO	AKO	925
5	101	5	Nup107	AKX	AKX	925
5	102	5	Nup107	ALG	ALG	925
5	103	5	Nup107	AMJ	AMJ	925
5	104	5	Nup107	AMS	AMS	925
5	105	5	Nup107	ANB	ANB	925
5	106	5	Nup107	AOE	AOE	925
5	107	5	Nup107	AON	AON	925
5	108	5	Nup107	AOW	AOW	925

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	109	5	Nup107	APZ	APZ	925
5	110	5	Nup107	AQI	AQI	925
5	111	5	Nup107	AQR	AQR	925
5	112	5	Nup107	ARU	ARU	925
5	113	5	Nup107	ASD	ASD	925
5	114	5	Nup107	ASM	ASM	925
5	115	5	Nup107	ATP	ATP	925
5	116	5	Nup107	ATY	ATY	925
5	117	5	Nup107	AUH	AUH	925
5	118	5	Nup107	AVK	AVK	925
5	119	5	Nup107	AVT	AVT	925
5	120	5	Nup107	AWC	AWC	925
5	121	6	Nup96	AIU	AIU	1817
5	122	6	Nup96	AJD	AJD	1817
5	123	6	Nup96	AJM	AJM	1817
5	124	6	Nup96	AKP	AKP	1817
5	125	6	Nup96	AKY	AKY	1817
5	126	6	Nup96	ALH	ALH	1817
5	127	6	Nup96	AMK	AMK	1817
5	128	6	Nup96	AMT	AMT	1817
5	129	6	Nup96	ANC	ANC	1817
5	130	6	Nup96	AOF	AOF	1817
5	131	6	Nup96	AOO	AOO	1817
5	132	6	Nup96	AOX	AOX	1817

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	133	6	Nup96	AQA	AQA	1817
5	134	6	Nup96	AQJ	AQJ	1817
5	135	6	Nup96	AQS	AQS	1817
5	136	6	Nup96	ARV	ARV	1817
5	137	6	Nup96	ASE	ASE	1817
5	138	6	Nup96	ASN	ASN	1817
5	139	6	Nup96	ATQ	ATQ	1817
5	140	6	Nup96	ATZ	ATZ	1817
5	141	6	Nup96	AUI	AUI	1817
5	142	6	Nup96	AVL	AVL	1817
5	143	6	Nup96	AVU	AVU	1817
5	144	6	Nup96	AWD	AWD	1817
5	145	7	SEC13	AIV	AIV	322
5	146	7	SEC13	AJE	AJE	322
5	147	7	SEC13	AJN	AJN	322
5	148	7	SEC13	AKQ	AKQ	322
5	149	7	SEC13	AKZ	AKZ	322
5	150	7	SEC13	ALI	ALI	322
5	151	7	SEC13	AML	AML	322
5	152	7	SEC13	AMU	AMU	322
5	153	7	SEC13	AND	AND	322
5	154	7	SEC13	AOG	AOG	322
5	155	7	SEC13	AOP	AOP	322
5	156	7	SEC13	AOY	AOY	322

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	157	7	SEC13	AQB	AQB	322
5	158	7	SEC13	AQK	AQK	322
5	159	7	SEC13	AQT	AQT	322
5	160	7	SEC13	ARW	ARW	322
5	161	7	SEC13	ASF	ASF	322
5	162	7	SEC13	ASO	ASO	322
5	163	7	SEC13	ATR	ATR	322
5	164	7	SEC13	AUA	AUA	322
5	165	7	SEC13	AUJ	AUJ	322
5	166	7	SEC13	AVM	AVM	322
5	167	7	SEC13	AVV	AVV	322
5	168	7	SEC13	AWE	AWE	322
5	169	8	SEH1	AIW	AIW	360
5	170	8	SEH1	AJF	AJF	360
5	171	8	SEH1	AJO	AJO	360
5	172	8	SEH1	AKR	AKR	360
5	173	8	SEH1	ALA	ALA	360
5	174	8	SEH1	ALJ	ALJ	360
5	175	8	SEH1	AMM	AMM	360
5	176	8	SEH1	AMV	AMV	360
5	177	8	SEH1	ANE	ANE	360
5	178	8	SEH1	AOH	AOH	360
5	179	8	SEH1	AOQ	AOQ	360
5	180	8	SEH1	AOZ	AOZ	360

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	181	8	SEH1	AQC	AQC	360
5	182	8	SEH1	AQL	AQL	360
5	183	8	SEH1	AQU	AQU	360
5	184	8	SEH1	ARX	ARX	360
5	185	8	SEH1	ASG	ASG	360
5	186	8	SEH1	ASP	ASP	360
5	187	8	SEH1	ATS	ATS	360
5	188	8	SEH1	AUB	AUB	360
5	189	8	SEH1	AUK	AUK	360
5	190	8	SEH1	AVN	AVN	360
5	191	8	SEH1	AVW	AVW	360
5	192	8	SEH1	AWF	AWF	360
5	193	9	Nup85	AIX	AIX	656
5	194	9	Nup85	AJG	AJG	656
5	195	9	Nup85	AJP	AJP	656
5	196	9	Nup85	AKS	AKS	656
5	197	9	Nup85	ALB	ALB	656
5	198	9	Nup85	ALK	ALK	656
5	199	9	Nup85	AMN	AMN	656
5	200	9	Nup85	AMW	AMW	656
5	201	9	Nup85	ANF	ANF	656
5	202	9	Nup85	AOI	AOI	656
5	203	9	Nup85	AOR	AOR	656
5	204	9	Nup85	APA	APA	656

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	205	9	Nup85	AQD	AQD	656
5	206	9	Nup85	AQM	AQM	656
5	207	9	Nup85	AQV	AQV	656
5	208	9	Nup85	ARY	ARY	656
5	209	9	Nup85	ASH	ASH	656
5	210	9	Nup85	ASQ	ASQ	656
5	211	9	Nup85	ATT	ATT	656
5	212	9	Nup85	AUC	AUC	656
5	213	9	Nup85	AUL	AUL	656
5	214	9	Nup85	AVO	AVO	656
5	215	9	Nup85	AVX	AVX	656
5	216	9	Nup85	AWG	AWG	656
5	217	10	Nup155	AJV	AJV	1391
5	218	10	Nup155	AJY	AJY	1391
5	219	10	Nup155	AKL	AKL	1391
5	220	10	Nup155	AKM	AKM	1391
5	221	10	Nup155	ALQ	ALQ	1391
5	222	10	Nup155	ALT	ALT	1391
5	223	10	Nup155	AMG	AMG	1391
5	224	10	Nup155	AMH	AMH	1391
5	225	10	Nup155	ANL	ANL	1391
5	226	10	Nup155	ANO	ANO	1391
5	227	10	Nup155	AOB	AOB	1391
5	228	10	Nup155	AOC	AOC	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	229	10	Nup155	APG	APG	1391
5	230	10	Nup155	APJ	APJ	1391
5	231	10	Nup155	APW	APW	1391
5	232	10	Nup155	APX	APX	1391
5	233	10	Nup155	ARB	ARB	1391
5	234	10	Nup155	ARE	ARE	1391
5	235	10	Nup155	ARR	ARR	1391
5	236	10	Nup155	ARS	ARS	1391
5	237	10	Nup155	ASW	ASW	1391
5	238	10	Nup155	ASZ	ASZ	1391
5	239	10	Nup155	ATM	ATM	1391
5	240	10	Nup155	ATN	ATN	1391
5	241	10	Nup155	AUR	AUR	1391
5	242	10	Nup155	AUU	AUU	1391
5	243	10	Nup155	AVH	AVH	1391
5	244	10	Nup155	AVI	AVI	1391
5	245	10	Nup155	AWM	AWM	1391
5	246	10	Nup155	AWP	AWP	1391
5	247	10	Nup155	AXC	AXC	1391
5	248	10	Nup155	AXD	AXD	1391
5	249	11	Nup93	AJT	AJT	819
5	250	11	Nup93	AJW	AJW	819
5	251	11	Nup93	ALO	ALO	819
5	252	11	Nup93	ALR	ALR	819

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	253	11	Nup93	ANJ	ANJ	819
5	254	11	Nup93	ANM	ANM	819
5	255	11	Nup93	APE	APE	819
5	256	11	Nup93	APH	APH	819
5	257	11	Nup93	AQZ	AQZ	819
5	258	11	Nup93	ARC	ARC	819
5	259	11	Nup93	ASU	ASU	819
5	260	11	Nup93	ASX	ASX	819
5	261	11	Nup93	AUP	AUP	819
5	262	11	Nup93	AUS	AUS	819
5	263	11	Nup93	AWK	AWK	819
5	264	11	Nup93	AWN	AWN	819
5	265	12	Nup205	AJU	AJU	2012
5	266	12	Nup205	AJX	AJX	2012
5	267	12	Nup205	ALP	ALP	2012
5	268	12	Nup205	ALS	ALS	2012
5	269	12	Nup205	ANK	ANK	2012
5	270	12	Nup205	ANN	ANN	2012
5	271	12	Nup205	APF	APF	2012
5	272	12	Nup205	API	API	2012
5	273	12	Nup205	ARA	ARA	2012
5	274	12	Nup205	ARD	ARD	2012
5	275	12	Nup205	ASV	ASV	2012
5	276	12	Nup205	ASY	ASY	2012

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	277	12	Nup205	AUQ	AUQ	2012
5	278	12	Nup205	AUT	AUT	2012
5	279	12	Nup205	AWL	AWL	2012
5	280	12	Nup205	AWO	AWO	2012
5	281	14	p54	AJZ	AJZ	507
5	282	14	p54	AKC	AKC	507
5	283	14	p54	AKF	AKF	507
5	284	14	p54	AKI	AKI	507
5	285	14	p54	ALU	ALU	507
5	286	14	p54	ALX	ALX	507
5	287	14	p54	AMA	AMA	507
5	288	14	p54	AMD	AMD	507
5	289	14	p54	ANP	ANP	507
5	290	14	p54	ANS	ANS	507
5	291	14	p54	ANV	ANV	507
5	292	14	p54	ANY	ANY	507
5	293	14	p54	APK	APK	507
5	294	14	p54	APN	APN	507
5	295	14	p54	APQ	APQ	507
5	296	14	p54	APT	APT	507
5	297	14	p54	ARF	ARF	507
5	298	14	p54	ARI	ARI	507
5	299	14	p54	ARL	ARL	507
5	300	14	p54	ARO	ARO	507

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	301	14	p54	ATA	ATA	507
5	302	14	p54	ATD	ATD	507
5	303	14	p54	ATG	ATG	507
5	304	14	p54	ATJ	ATJ	507
5	305	14	p54	AUV	AUV	507
5	306	14	p54	AUY	AUY	507
5	307	14	p54	AVB	AVB	507
5	308	14	p54	AVE	AVE	507
5	309	14	p54	AWQ	AWQ	507
5	310	14	p54	AWT	AWT	507
5	311	14	p54	AWW	AWW	507
5	312	14	p54	AWZ	AWZ	507
5	313	15	p58	AKA	AKA	599
5	314	15	p58	AKD	AKD	599
5	315	15	p58	AKG	AKG	599
5	316	15	p58	AKJ	AKJ	599
5	317	15	p58	ALV	ALV	599
5	318	15	p58	ALY	ALY	599
5	319	15	p58	AMB	AMB	599
5	320	15	p58	AME	AME	599
5	321	15	p58	ANQ	ANQ	599
5	322	15	p58	ANT	ANT	599
5	323	15	p58	ANW	ANW	599
5	324	15	p58	ANZ	ANZ	599

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	325	15	p58	APL	APL	599
5	326	15	p58	APO	APO	599
5	327	15	p58	APR	APR	599
5	328	15	p58	APU	APU	599
5	329	15	p58	ARG	ARG	599
5	330	15	p58	ARJ	ARJ	599
5	331	15	p58	ARM	ARM	599
5	332	15	p58	ARP	ARP	599
5	333	15	p58	ATB	ATB	599
5	334	15	p58	ATE	ATE	599
5	335	15	p58	ATH	ATH	599
5	336	15	p58	ATK	ATK	599
5	337	15	p58	AUW	AUW	599
5	338	15	p58	AUZ	AUZ	599
5	339	15	p58	AVC	AVC	599
5	340	15	p58	AVF	AVF	599
5	341	15	p58	AWR	AWR	599
5	342	15	p58	AWU	AWU	599
5	343	15	p58	AWX	AWX	599
5	344	15	p58	AXA	AXA	599
5	345	16	p62	AKB	AKB	522
5	346	16	p62	AKE	AKE	522
5	347	16	p62	AKH	AKH	522
5	348	16	p62	AKK	AKK	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	349	16	p62	ALW	ALW	522
5	350	16	p62	ALZ	ALZ	522
5	351	16	p62	AMC	AMC	522
5	352	16	p62	AMF	AMF	522
5	353	16	p62	ANR	ANR	522
5	354	16	p62	ANU	ANU	522
5	355	16	p62	ANX	ANX	522
5	356	16	p62	AOA	AOA	522
5	357	16	p62	APM	APM	522
5	358	16	p62	APP	APP	522
5	359	16	p62	APS	APS	522
5	360	16	p62	APV	APV	522
5	361	16	p62	ARH	ARH	522
5	362	16	p62	ARK	ARK	522
5	363	16	p62	ARN	ARN	522
5	364	16	p62	ARQ	ARQ	522
5	365	16	p62	ATC	ATC	522
5	366	16	p62	ATF	ATF	522
5	367	16	p62	ATI	ATI	522
5	368	16	p62	ATL	ATL	522
5	369	16	p62	AUX	AUX	522
5	370	16	p62	AVA	AVA	522
5	371	16	p62	AVD	AVD	522
5	372	16	p62	AVG	AVG	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	373	16	p62	AWS	AWS	522
5	374	16	p62	AWV	AWV	522
5	375	16	p62	AWY	AWY	522
5	376	16	p62	AXB	AXB	522
6	1	1	Nup43	AXK	AXK	380
6	2	1	Nup43	AXT	AXT	380
6	3	1	Nup43	AYC	AYC	380
6	4	1	Nup43	AYL	AYL	380
6	5	1	Nup43	AZU	AZU	380
6	6	1	Nup43	BAD	BAD	380
6	7	1	Nup43	BAM	BAM	380
6	8	1	Nup43	BAV	BAV	380
6	9	1	Nup43	BCE	BCE	380
6	10	1	Nup43	BCN	BCN	380
6	11	1	Nup43	BCW	BCW	380
6	12	1	Nup43	BDF	BDF	380
6	13	1	Nup43	BEO	BEO	380
6	14	1	Nup43	BEX	BEX	380
6	15	1	Nup43	BFG	BFG	380
6	16	1	Nup43	BFP	BFP	380
6	17	1	Nup43	BGY	BGY	380
6	18	1	Nup43	BHH	BHH	380
6	19	1	Nup43	BHQ	BHQ	380
6	20	1	Nup43	BHZ	BHZ	380

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	21	1	Nup43	BJI	BJI	380
6	22	1	Nup43	BJR	BJR	380
6	23	1	Nup43	BKA	BKA	380
6	24	1	Nup43	BKJ	BKJ	380
6	25	1	Nup43	BLS	BLS	380
6	26	1	Nup43	BMB	BMB	380
6	27	1	Nup43	BMK	BMK	380
6	28	1	Nup43	BMT	BMT	380
6	29	1	Nup43	BOC	BOC	380
6	30	1	Nup43	BOL	BOL	380
6	31	1	Nup43	BOU	BOU	380
6	32	1	Nup43	BPD	BPD	380
6	33	2	Nup160	AXL	AXL	1436
6	34	2	Nup160	AXU	AXU	1436
6	35	2	Nup160	AYD	AYD	1436
6	36	2	Nup160	AYM	AYM	1436
6	37	2	Nup160	AZV	AZV	1436
6	38	2	Nup160	BAE	BAE	1436
6	39	2	Nup160	BAN	BAN	1436
6	40	2	Nup160	BAW	BAW	1436
6	41	2	Nup160	BCF	BCF	1436
6	42	2	Nup160	BCO	BCO	1436
6	43	2	Nup160	BCX	BCX	1436
6	44	2	Nup160	BDG	BDG	1436

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	45	2	Nup160	BEP	BEP	1436
6	46	2	Nup160	BEY	BEY	1436
6	47	2	Nup160	BFH	BFH	1436
6	48	2	Nup160	BFQ	BFQ	1436
6	49	2	Nup160	BGZ	BGZ	1436
6	50	2	Nup160	BHI	BHI	1436
6	51	2	Nup160	BHR	BHR	1436
6	52	2	Nup160	BIA	BIA	1436
6	53	2	Nup160	BJJ	BJJ	1436
6	54	2	Nup160	BJS	BJS	1436
6	55	2	Nup160	BKB	BKB	1436
6	56	2	Nup160	BKK	BKK	1436
6	57	2	Nup160	BLT	BLT	1436
6	58	2	Nup160	BMC	BMC	1436
6	59	2	Nup160	BML	BML	1436
6	60	2	Nup160	BMU	BMU	1436
6	61	2	Nup160	BOD	BOD	1436
6	62	2	Nup160	BOM	BOM	1436
6	63	2	Nup160	BOV	BOV	1436
6	64	2	Nup160	BPE	BPE	1436
6	65	3	Nup37	AXM	AXM	326
6	66	3	Nup37	AXV	AXV	326
6	67	3	Nup37	AYE	AYE	326
6	68	3	Nup37	AYN	AYN	326

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	69	3	Nup37	AZW	AZW	326
6	70	3	Nup37	BAF	BAF	326
6	71	3	Nup37	BAO	BAO	326
6	72	3	Nup37	BAX	BAX	326
6	73	3	Nup37	BCG	BCG	326
6	74	3	Nup37	BCP	BCP	326
6	75	3	Nup37	BCY	BCY	326
6	76	3	Nup37	BDH	BDH	326
6	77	3	Nup37	BEQ	BEQ	326
6	78	3	Nup37	BEZ	BEZ	326
6	79	3	Nup37	BFI	BFI	326
6	80	3	Nup37	BFR	BFR	326
6	81	3	Nup37	BHA	BHA	326
6	82	3	Nup37	BHJ	BHJ	326
6	83	3	Nup37	BHS	BHS	326
6	84	3	Nup37	BIB	BIB	326
6	85	3	Nup37	BJK	BJK	326
6	86	3	Nup37	BJT	BJT	326
6	87	3	Nup37	BKC	BKC	326
6	88	3	Nup37	BKL	BKL	326
6	89	3	Nup37	BLU	BLU	326
6	90	3	Nup37	BMD	BMD	326
6	91	3	Nup37	BMM	BMM	326
6	92	3	Nup37	BMV	BMV	326

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	93	3	Nup37	BOE	BOE	326
6	94	3	Nup37	BON	BON	326
6	95	3	Nup37	BOW	BOW	326
6	96	3	Nup37	BPF	BPF	326
6	97	4	Nup133	AXE	AXE	1156
6	98	4	Nup133	AXN	AXN	1156
6	99	4	Nup133	AXW	AXW	1156
6	100	4	Nup133	AYF	AYF	1156
6	101	4	Nup133	AZO	AZO	1156
6	102	4	Nup133	AZX	AZX	1156
6	103	4	Nup133	BAG	BAG	1156
6	104	4	Nup133	BAP	BAP	1156
6	105	4	Nup133	BBY	BBY	1156
6	106	4	Nup133	BCH	BCH	1156
6	107	4	Nup133	BCQ	BCQ	1156
6	108	4	Nup133	BCZ	BCZ	1156
6	109	4	Nup133	BEI	BEI	1156
6	110	4	Nup133	BER	BER	1156
6	111	4	Nup133	BFA	BFA	1156
6	112	4	Nup133	BFJ	BFJ	1156
6	113	4	Nup133	BGS	BGS	1156
6	114	4	Nup133	BHB	BHB	1156
6	115	4	Nup133	BHK	BHK	1156
6	116	4	Nup133	BHT	BHT	1156

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	117	4	Nup133	BJC	BJC	1156
6	118	4	Nup133	BJL	BJL	1156
6	119	4	Nup133	BJU	BJU	1156
6	120	4	Nup133	BKD	BKD	1156
6	121	4	Nup133	BLM	BLM	1156
6	122	4	Nup133	BLV	BLV	1156
6	123	4	Nup133	BME	BME	1156
6	124	4	Nup133	BMN	BMN	1156
6	125	4	Nup133	BNW	BNW	1156
6	126	4	Nup133	BOF	BOF	1156
6	127	4	Nup133	BOO	BOO	1156
6	128	4	Nup133	BOX	BOX	1156
6	129	5	Nup107	AXF	AXF	925
6	130	5	Nup107	AXO	AXO	925
6	131	5	Nup107	AXX	AXX	925
6	132	5	Nup107	AYG	AYG	925
6	133	5	Nup107	AZP	AZP	925
6	134	5	Nup107	AZY	AZY	925
6	135	5	Nup107	BAH	BAH	925
6	136	5	Nup107	BAQ	BAQ	925
6	137	5	Nup107	BBZ	BBZ	925
6	138	5	Nup107	BCI	BCI	925
6	139	5	Nup107	BCR	BCR	925
6	140	5	Nup107	BDA	BDA	925

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	141	5	Nup107	BEJ	BEJ	925
6	142	5	Nup107	BES	BES	925
6	143	5	Nup107	BFB	BFB	925
6	144	5	Nup107	BFK	BFK	925
6	145	5	Nup107	BGT	BGT	925
6	146	5	Nup107	BHC	BHC	925
6	147	5	Nup107	BHL	BHL	925
6	148	5	Nup107	BHU	BHU	925
6	149	5	Nup107	BJD	BJD	925
6	150	5	Nup107	BJM	BJM	925
6	151	5	Nup107	BJV	BJV	925
6	152	5	Nup107	BKE	BKE	925
6	153	5	Nup107	BLN	BLN	925
6	154	5	Nup107	BLW	BLW	925
6	155	5	Nup107	BMF	BMF	925
6	156	5	Nup107	BMO	BMO	925
6	157	5	Nup107	BNX	BNX	925
6	158	5	Nup107	BOG	BOG	925
6	159	5	Nup107	BOP	BOP	925
6	160	5	Nup107	BOY	BOY	925
6	161	6	Nup96	AXG	AXG	1817
6	162	6	Nup96	AXP	AXP	1817
6	163	6	Nup96	AXY	AXY	1817
6	164	6	Nup96	AYH	AYH	1817

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	165	6	Nup96	AZQ	AZQ	1817
6	166	6	Nup96	AZZ	AZZ	1817
6	167	6	Nup96	BAI	BAI	1817
6	168	6	Nup96	BAR	BAR	1817
6	169	6	Nup96	BCA	BCA	1817
6	170	6	Nup96	BCJ	BCJ	1817
6	171	6	Nup96	BCS	BCS	1817
6	172	6	Nup96	BDB	BDB	1817
6	173	6	Nup96	BEK	BEK	1817
6	174	6	Nup96	BET	BET	1817
6	175	6	Nup96	BFC	BFC	1817
6	176	6	Nup96	BFL	BFL	1817
6	177	6	Nup96	BGU	BGU	1817
6	178	6	Nup96	BHD	BHD	1817
6	179	6	Nup96	BHM	BHM	1817
6	180	6	Nup96	BHV	BHV	1817
6	181	6	Nup96	BJE	BJE	1817
6	182	6	Nup96	BJN	BJN	1817
6	183	6	Nup96	BJW	BJW	1817
6	184	6	Nup96	BKF	BKF	1817
6	185	6	Nup96	BLO	BLO	1817
6	186	6	Nup96	BLX	BLX	1817
6	187	6	Nup96	BMG	BMG	1817
6	188	6	Nup96	BMP	BMP	1817

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	189	6	Nup96	BNY	BNY	1817
6	190	6	Nup96	BOH	BOH	1817
6	191	6	Nup96	BOQ	BOQ	1817
6	192	6	Nup96	BOZ	BOZ	1817
6	193	7	SEC13	AXH	AXH	322
6	194	7	SEC13	AXQ	AXQ	322
6	195	7	SEC13	AXZ	AXZ	322
6	196	7	SEC13	AYI	AYI	322
6	197	7	SEC13	AZR	AZR	322
6	198	7	SEC13	BAA	BAA	322
6	199	7	SEC13	BAJ	BAJ	322
6	200	7	SEC13	BAS	BAS	322
6	201	7	SEC13	BCB	BCB	322
6	202	7	SEC13	BCK	BCK	322
6	203	7	SEC13	BCT	BCT	322
6	204	7	SEC13	BDC	BDC	322
6	205	7	SEC13	BEL	BEL	322
6	206	7	SEC13	BEU	BEU	322
6	207	7	SEC13	BFD	BFD	322
6	208	7	SEC13	BFM	BFM	322
6	209	7	SEC13	BGV	BGV	322
6	210	7	SEC13	BHE	BHE	322
6	211	7	SEC13	BHN	BHN	322
6	212	7	SEC13	BHW	BHW	322

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	213	7	SEC13	BJF	BJF	322
6	214	7	SEC13	BJO	BJO	322
6	215	7	SEC13	BJX	BJX	322
6	216	7	SEC13	BKG	BKG	322
6	217	7	SEC13	BLP	BLP	322
6	218	7	SEC13	BLY	BLY	322
6	219	7	SEC13	BMH	BMH	322
6	220	7	SEC13	BMQ	BMQ	322
6	221	7	SEC13	BNZ	BNZ	322
6	222	7	SEC13	BOI	BOI	322
6	223	7	SEC13	BOR	BOR	322
6	224	7	SEC13	BPA	BPA	322
6	225	8	SEH1	AXI	AXI	360
6	226	8	SEH1	AXR	AXR	360
6	227	8	SEH1	AYA	AYA	360
6	228	8	SEH1	AYJ	AYJ	360
6	229	8	SEH1	AZS	AZS	360
6	230	8	SEH1	BAB	BAB	360
6	231	8	SEH1	BAK	BAK	360
6	232	8	SEH1	BAT	BAT	360
6	233	8	SEH1	BCC	BCC	360
6	234	8	SEH1	BCL	BCL	360
6	235	8	SEH1	BCU	BCU	360
6	236	8	SEH1	BDD	BDD	360

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	237	8	SEH1	BEM	BEM	360
6	238	8	SEH1	BEV	BEV	360
6	239	8	SEH1	BFE	BFE	360
6	240	8	SEH1	BFN	BFN	360
6	241	8	SEH1	BGW	BGW	360
6	242	8	SEH1	BHF	BHF	360
6	243	8	SEH1	BHO	BHO	360
6	244	8	SEH1	BHX	BHX	360
6	245	8	SEH1	BJG	BJG	360
6	246	8	SEH1	BJP	BJP	360
6	247	8	SEH1	BJY	BJY	360
6	248	8	SEH1	BKH	BKH	360
6	249	8	SEH1	BLQ	BLQ	360
6	250	8	SEH1	BLZ	BLZ	360
6	251	8	SEH1	BMI	BMI	360
6	252	8	SEH1	BMR	BMR	360
6	253	8	SEH1	BOA	BOA	360
6	254	8	SEH1	BOJ	BOJ	360
6	255	8	SEH1	BOS	BOS	360
6	256	8	SEH1	BPB	BPB	360
6	257	9	Nup85	AXJ	AXJ	656
6	258	9	Nup85	AXS	AXS	656
6	259	9	Nup85	AYB	AYB	656
6	260	9	Nup85	AYK	AYK	656

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	261	9	Nup85	AZT	AZT	656
6	262	9	Nup85	BAC	BAC	656
6	263	9	Nup85	BAL	BAL	656
6	264	9	Nup85	BAU	BAU	656
6	265	9	Nup85	BCD	BCD	656
6	266	9	Nup85	BCM	BCM	656
6	267	9	Nup85	BCV	BCV	656
6	268	9	Nup85	BDE	BDE	656
6	269	9	Nup85	BEN	BEN	656
6	270	9	Nup85	BEW	BEW	656
6	271	9	Nup85	BFF	BFF	656
6	272	9	Nup85	BFO	BFO	656
6	273	9	Nup85	BGX	BGX	656
6	274	9	Nup85	BHG	BHG	656
6	275	9	Nup85	BHP	BHP	656
6	276	9	Nup85	BHY	BHY	656
6	277	9	Nup85	BJH	BJH	656
6	278	9	Nup85	BJQ	BJQ	656
6	279	9	Nup85	BJZ	BJZ	656
6	280	9	Nup85	BKI	BKI	656
6	281	9	Nup85	BLR	BLR	656
6	282	9	Nup85	BMA	BMA	656
6	283	9	Nup85	BMJ	BMJ	656
6	284	9	Nup85	BMS	BMS	656

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	285	9	Nup85	BOB	BOB	656
6	286	9	Nup85	BOK	BOK	656
6	287	9	Nup85	BOT	BOT	656
6	288	9	Nup85	BPC	BPC	656
6	289	10	Nup155	AYQ	AYQ	1391
6	290	10	Nup155	AYT	AYT	1391
6	291	10	Nup155	AYW	AYW	1391
6	292	10	Nup155	AYZ	AYZ	1391
6	293	10	Nup155	AZM	AZM	1391
6	294	10	Nup155	AZN	AZN	1391
6	295	10	Nup155	BBA	BBA	1391
6	296	10	Nup155	BBD	BBD	1391
6	297	10	Nup155	BBG	BBG	1391
6	298	10	Nup155	BBJ	BBJ	1391
6	299	10	Nup155	BBW	BBW	1391
6	300	10	Nup155	BBX	BBX	1391
6	301	10	Nup155	BDK	BDK	1391
6	302	10	Nup155	BDN	BDN	1391
6	303	10	Nup155	BDQ	BDQ	1391
6	304	10	Nup155	BDT	BDT	1391
6	305	10	Nup155	BEG	BEG	1391
6	306	10	Nup155	BEH	BEH	1391
6	307	10	Nup155	BFU	BFU	1391
6	308	10	Nup155	BFX	BFX	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	309	10	Nup155	BGA	BGA	1391
6	310	10	Nup155	BGD	BGD	1391
6	311	10	Nup155	BGQ	BGQ	1391
6	312	10	Nup155	BGR	BGR	1391
6	313	10	Nup155	BIE	BIE	1391
6	314	10	Nup155	BIH	BIH	1391
6	315	10	Nup155	BIK	BIK	1391
6	316	10	Nup155	BIN	BIN	1391
6	317	10	Nup155	BJA	BJA	1391
6	318	10	Nup155	BJB	BJB	1391
6	319	10	Nup155	BKO	BKO	1391
6	320	10	Nup155	BKR	BKR	1391
6	321	10	Nup155	BKU	BKU	1391
6	322	10	Nup155	BKX	BKX	1391
6	323	10	Nup155	BLK	BLK	1391
6	324	10	Nup155	BLL	BLL	1391
6	325	10	Nup155	BMY	BMY	1391
6	326	10	Nup155	BNB	BNB	1391
6	327	10	Nup155	BNE	BNE	1391
6	328	10	Nup155	BNH	BNH	1391
6	329	10	Nup155	BNU	BNU	1391
6	330	10	Nup155	BNV	BNV	1391
6	331	10	Nup155	BPI	BPI	1391
6	332	10	Nup155	BPL	BPL	1391

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	333	10	Nup155	BPO	BPO	1391
6	334	10	Nup155	BPR	BPR	1391
6	335	10	Nup155	BQE	BQE	1391
6	336	10	Nup155	BQF	BQF	1391
6	337	11	Nup93	AYO	AYO	819
6	338	11	Nup93	AYR	AYR	819
6	339	11	Nup93	AYU	AYU	819
6	340	11	Nup93	AYX	AYX	819
6	341	11	Nup93	BAY	BAY	819
6	342	11	Nup93	BBB	BBB	819
6	343	11	Nup93	BBE	BBE	819
6	344	11	Nup93	BBH	BBH	819
6	345	11	Nup93	BDI	BDI	819
6	346	11	Nup93	BDL	BDL	819
6	347	11	Nup93	BDO	BDO	819
6	348	11	Nup93	BDR	BDR	819
6	349	11	Nup93	BFS	BFS	819
6	350	11	Nup93	BFV	BFV	819
6	351	11	Nup93	BFY	BFY	819
6	352	11	Nup93	BGB	BGB	819
6	353	11	Nup93	BIC	BIC	819
6	354	11	Nup93	BIF	BIF	819
6	355	11	Nup93	BII	BII	819
6	356	11	Nup93	BIL	BIL	819

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	357	11	Nup93	BKM	BKM	819
6	358	11	Nup93	BKP	BKP	819
6	359	11	Nup93	BKS	BKS	819
6	360	11	Nup93	BKV	BKV	819
6	361	11	Nup93	BMW	BMW	819
6	362	11	Nup93	BMZ	BMZ	819
6	363	11	Nup93	BNC	BNC	819
6	364	11	Nup93	BNF	BNF	819
6	365	11	Nup93	BPG	BPG	819
6	366	11	Nup93	BPJ	BPJ	819
6	367	11	Nup93	BPM	BPM	819
6	368	11	Nup93	BPP	BPP	819
6	369	12	Nup205	AYP	AYP	2012
6	370	12	Nup205	AYV	AYV	2012
6	371	12	Nup205	BAZ	BAZ	2012
6	372	12	Nup205	BBF	BBF	2012
6	373	12	Nup205	BDJ	BDJ	2012
6	374	12	Nup205	BDP	BDP	2012
6	375	12	Nup205	BFT	BFT	2012
6	376	12	Nup205	BFZ	BFZ	2012
6	377	12	Nup205	BID	BID	2012
6	378	12	Nup205	BIJ	BIJ	2012
6	379	12	Nup205	BKN	BKN	2012
6	380	12	Nup205	BKT	BKT	2012

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	381	12	Nup205	BMX	BMX	2012
6	382	12	Nup205	BND	BND	2012
6	383	12	Nup205	BPH	BPH	2012
6	384	12	Nup205	BPN	BPN	2012
6	385	13	Nup188	AYS	AYS	1749
6	386	13	Nup188	AYY	AYY	1749
6	387	13	Nup188	BBC	BBC	1749
6	388	13	Nup188	BBI	BBI	1749
6	389	13	Nup188	BDM	BDM	1749
6	390	13	Nup188	BDS	BDS	1749
6	391	13	Nup188	BFW	BFW	1749
6	392	13	Nup188	BGC	BGC	1749
6	393	13	Nup188	BIG	BIG	1749
6	394	13	Nup188	BIM	BIM	1749
6	395	13	Nup188	BKQ	BKQ	1749
6	396	13	Nup188	BKW	BKW	1749
6	397	13	Nup188	BNA	BNA	1749
6	398	13	Nup188	BNG	BNG	1749
6	399	13	Nup188	BPK	BPK	1749
6	400	13	Nup188	BPQ	BPQ	1749
6	401	14	p54	AZA	AZA	507
6	402	14	p54	AZD	AZD	507
6	403	14	p54	AZG	AZG	507
6	404	14	p54	AZJ	AZJ	507

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	405	14	p54	BBK	BBK	507
6	406	14	p54	BBN	BBN	507
6	407	14	p54	BBQ	BBQ	507
6	408	14	p54	BBT	BBT	507
6	409	14	p54	BDU	BDU	507
6	410	14	p54	BDX	BDX	507
6	411	14	p54	BEA	BEA	507
6	412	14	p54	BED	BED	507
6	413	14	p54	BGE	BGE	507
6	414	14	p54	BGH	BGH	507
6	415	14	p54	BGK	BGK	507
6	416	14	p54	BGN	BGN	507
6	417	14	p54	BIO	BIO	507
6	418	14	p54	BIR	BIR	507
6	419	14	p54	BIU	BIU	507
6	420	14	p54	BIX	BIX	507
6	421	14	p54	BKY	BKY	507
6	422	14	p54	BLB	BLB	507
6	423	14	p54	BLE	BLE	507
6	424	14	p54	BLH	BLH	507
6	425	14	p54	BNI	BNI	507
6	426	14	p54	BNL	BNL	507
6	427	14	p54	BNO	BNO	507
6	428	14	p54	BNR	BNR	507

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	429	14	p54	BPS	BPS	507
6	430	14	p54	BPV	BPV	507
6	431	14	p54	BPY	BPY	507
6	432	14	p54	BQB	BQB	507
6	433	15	p58	AZB	AZB	599
6	434	15	p58	AZE	AZE	599
6	435	15	p58	AZH	AZH	599
6	436	15	p58	AZK	AZK	599
6	437	15	p58	BBL	BBL	599
6	438	15	p58	BBO	BBO	599
6	439	15	p58	BBR	BBR	599
6	440	15	p58	BBU	BBU	599
6	441	15	p58	BDV	BDV	599
6	442	15	p58	BDY	BDY	599
6	443	15	p58	BEB	BEB	599
6	444	15	p58	BEE	BEE	599
6	445	15	p58	BGF	BGF	599
6	446	15	p58	BGI	BGI	599
6	447	15	p58	BGL	BGL	599
6	448	15	p58	BGO	BGO	599
6	449	15	p58	BIP	BIP	599
6	450	15	p58	BIS	BIS	599
6	451	15	p58	BIV	BIV	599
6	452	15	p58	BIY	BIY	599

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	453	15	p58	BKZ	BKZ	599
6	454	15	p58	BLC	BLC	599
6	455	15	p58	BLF	BLF	599
6	456	15	p58	BLI	BLI	599
6	457	15	p58	BNJ	BNJ	599
6	458	15	p58	BNM	BNM	599
6	459	15	p58	BNP	BNP	599
6	460	15	p58	BNS	BNS	599
6	461	15	p58	BPT	BPT	599
6	462	15	p58	BPW	BPW	599
6	463	15	p58	BPZ	BPZ	599
6	464	15	p58	BQC	BQC	599
6	465	16	p62	AZC	AZC	522
6	466	16	p62	AZF	AZF	522
6	467	16	p62	AZI	AZI	522
6	468	16	p62	AZL	AZL	522
6	469	16	p62	BBM	BBM	522
6	470	16	p62	BBP	BBP	522
6	471	16	p62	BBS	BBS	522
6	472	16	p62	BBV	BBV	522
6	473	16	p62	BDW	BDW	522
6	474	16	p62	BDZ	BDZ	522
6	475	16	p62	BEC	BEC	522
6	476	16	p62	BEF	BEF	522

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	477	16	p62	BGG	BGG	522
6	478	16	p62	BGJ	BGJ	522
6	479	16	p62	BGM	BGM	522
6	480	16	p62	BGP	BGP	522
6	481	16	p62	BIQ	BIQ	522
6	482	16	p62	BIT	BIT	522
6	483	16	p62	BIW	BIW	522
6	484	16	p62	BIZ	BIZ	522
6	485	16	p62	BLA	BLA	522
6	486	16	p62	BLD	BLD	522
6	487	16	p62	BLG	BLG	522
6	488	16	p62	BLJ	BLJ	522
6	489	16	p62	BNK	BNK	522
6	490	16	p62	BNN	BNN	522
6	491	16	p62	BNQ	BNQ	522
6	492	16	p62	BNT	BNT	522
6	493	16	p62	BPU	BPU	522
6	494	16	p62	BPX	BPX	522
6	495	16	p62	BQA	BQA	522
6	496	16	p62	BQD	BQD	522

Datasets used for modeling

There are 8 unique datasets used to build the models in this entry.

ID	Dataset type	Database name	Data access code
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ID	Dataset type	Database name	Data access code
1	Experimental model	PDB	5a9q
3	3DEM volume	File	10.5281/zenodo.6908584
4	3DEM volume	File	10.5281/zenodo.6908584
5	3DEM volume	File	10.5281/zenodo.6908584
6	3DEM volume	File	10.5281/zenodo.6908584
7	3DEM volume	File	10.5281/zenodo.6908584
8	3DEM volume	File	10.5281/zenodo.6908584
2	Experimental model	PDB	5ijn

Representation

This entry has only one representation and includes 1800 rigid bodies and 0 flexible units

Chain ID	Rigid bodies	Non-rigid segments
H	1-1436	-
A	1-1156	-
L	1-1391	-
G	1-380	-
X	1-380	-
AO	1-380	-
BF	1-380	-
BW	1-380	-
CN	1-380	-
DE	1-380	-
DV	1-380	-
EM	1-380	-

Chain ID	Rigid bodies	Non-rigid segments
FG	1-380	-
GA	1-380	-
GU	1-380	-
HO	1-380	-
II	1-380	-
JC	1-380	-
JW	1-380	-
KQ	1-380	-
KZ	1-380	-
LZ	1-380	-
MI	1-380	-
NI	1-380	-
NR	1-380	-
OR	1-380	-
PA	1-380	-
QA	1-380	-
QJ	1-380	-
RJ	1-380	-
RS	1-380	-
SS	1-380	-
TB	1-380	-
UB	1-380	-
UK	1-380	-
VK	1-380	-

Chain ID	Rigid bodies	Non-rigid segments
VT	1-380	-
WC	1-380	-
XC	1-380	-
XL	1-380	-
XU	1-380	-
YU	1-380	-
ZD	1-380	-
ZM	1-380	-
AAM	1-380	-
AAV	1-380	-
ABE	1-380	-
ACE	1-380	-
ACN	1-380	-
ACW	1-380	-
ADW	1-380	-
AEF	1-380	-
AEO	1-380	-
AFO	1-380	-
AFX	1-380	-
AGG	1-380	-
AHG	1-380	-
AHP	1-380	-
AHY	1-380	-
AIY	1-380	-

Chain ID	Rigid bodies	Non-rigid segments
AJH	1-380	-
AJQ	1-380	-
AKT	1-380	-
ALC	1-380	-
ALL	1-380	-
AMO	1-380	-
AMX	1-380	-
ANG	1-380	-
AOJ	1-380	-
AOS	1-380	-
APB	1-380	-
AQE	1-380	-
AQN	1-380	-
AQW	1-380	-
ARZ	1-380	-
ASI	1-380	-
ASR	1-380	-
ATU	1-380	-
AUD	1-380	-
AUM	1-380	-
AVP	1-380	-
AVY	1-380	-
AWH	1-380	-
AXK	1-380	-

Chain ID	Rigid bodies	Non-rigid segments
AXT	1-380	-
AYC	1-380	-
AYL	1-380	-
AZU	1-380	-
BAD	1-380	-
BAM	1-380	-
BAV	1-380	-
BCE	1-380	-
BCN	1-380	-
BCW	1-380	-
BDF	1-380	-
BEO	1-380	-
BEX	1-380	-
BFG	1-380	-
BFP	1-380	-
BGY	1-380	-
BHH	1-380	-
BHQ	1-380	-
BHZ	1-380	-
BJI	1-380	-
BJR	1-380	-
BKA	1-380	-
BKJ	1-380	-
BLS	1-380	-

Chain ID	Rigid bodies	Non-rigid segments
BMB	1-380	-
BMK	1-380	-
BMT	1-380	-
BOC	1-380	-
BOL	1-380	-
BOU	1-380	-
BPD	1-380	-
Y	1-1436	-
AP	1-1436	-
BG	1-1436	-
BX	1-1436	-
CO	1-1436	-
DF	1-1436	-
DW	1-1436	-
EN	1-1436	-
FH	1-1436	-
GB	1-1436	-
GV	1-1436	-
HP	1-1436	-
IJ	1-1436	-
JD	1-1436	-
JX	1-1436	-
KR	1-1436	-
LA	1-1436	-

Chain ID	Rigid bodies	Non-rigid segments
MA	1-1436	-
MJ	1-1436	-
NJ	1-1436	-
NS	1-1436	-
OS	1-1436	-
PB	1-1436	-
QB	1-1436	-
QK	1-1436	-
RK	1-1436	-
RT	1-1436	-
ST	1-1436	-
TC	1-1436	-
UC	1-1436	-
UL	1-1436	-
VL	1-1436	-
VU	1-1436	-
WD	1-1436	-
XD	1-1436	-
XM	1-1436	-
XV	1-1436	-
YV	1-1436	-
ZE	1-1436	-
ZN	1-1436	-
AAN	1-1436	-

Chain ID	Rigid bodies	Non-rigid segments
AAW	1-1436	-
ABF	1-1436	-
ACF	1-1436	-
ACO	1-1436	-
ACX	1-1436	-
ADX	1-1436	-
AEG	1-1436	-
AEP	1-1436	-
AFP	1-1436	-
AFY	1-1436	-
AGH	1-1436	-
AHH	1-1436	-
AHQ	1-1436	-
AHZ	1-1436	-
AIZ	1-1436	-
AJI	1-1436	-
AJR	1-1436	-
AKU	1-1436	-
ALD	1-1436	-
ALM	1-1436	-
AMP	1-1436	-
AMY	1-1436	-
ANH	1-1436	-
AOK	1-1436	-

Chain ID	Rigid bodies	Non-rigid segments
AOT	1-1436	-
APC	1-1436	-
AQF	1-1436	-
AQO	1-1436	-
AQX	1-1436	-
ASA	1-1436	-
ASJ	1-1436	-
ASS	1-1436	-
ATV	1-1436	-
AUE	1-1436	-
AUN	1-1436	-
AVQ	1-1436	-
AVZ	1-1436	-
AWI	1-1436	-
AXL	1-1436	-
AXU	1-1436	-
AYD	1-1436	-
AYM	1-1436	-
AZV	1-1436	-
BAE	1-1436	-
BAN	1-1436	-
BAW	1-1436	-
BCF	1-1436	-
BCO	1-1436	-

Chain ID	Rigid bodies	Non-rigid segments
BCX	1-1436	-
BDG	1-1436	-
BEP	1-1436	-
BEY	1-1436	-
BFH	1-1436	-
BFQ	1-1436	-
BGZ	1-1436	-
BHI	1-1436	-
BHR	1-1436	-
BIA	1-1436	-
BJJ	1-1436	-
BJS	1-1436	-
BKB	1-1436	-
BKK	1-1436	-
BLT	1-1436	-
BMC	1-1436	-
BML	1-1436	-
BMU	1-1436	-
BOD	1-1436	-
BOM	1-1436	-
BOV	1-1436	-
BPE	1-1436	-
I	1-326	-
Z	1-326	-

Chain ID	Rigid bodies	Non-rigid segments
AQ	1-326	-
BH	1-326	-
BY	1-326	-
CP	1-326	-
DG	1-326	-
DX	1-326	-
EO	1-326	-
FI	1-326	-
GC	1-326	-
GW	1-326	-
HQ	1-326	-
IK	1-326	-
JE	1-326	-
JY	1-326	-
KS	1-326	-
LB	1-326	-
MB	1-326	-
MK	1-326	-
NK	1-326	-
NT	1-326	-
OT	1-326	-
PC	1-326	-
QC	1-326	-
QL	1-326	-

Chain ID	Rigid bodies	Non-rigid segments
RL	1-326	-
RU	1-326	-
SU	1-326	-
TD	1-326	-
UD	1-326	-
UM	1-326	-
VM	1-326	-
VV	1-326	-
WE	1-326	-
XE	1-326	-
XN	1-326	-
XW	1-326	-
YW	1-326	-
ZF	1-326	-
ZO	1-326	-
AAO	1-326	-
AAX	1-326	-
ABG	1-326	-
ACG	1-326	-
ACP	1-326	-
ACY	1-326	-
ADY	1-326	-
AEH	1-326	-
AEQ	1-326	-

Chain ID	Rigid bodies	Non-rigid segments
AFQ	1-326	-
AFZ	1-326	-
AGI	1-326	-
AHI	1-326	-
AHR	1-326	-
AIA	1-326	-
AJA	1-326	-
AJJ	1-326	-
AJS	1-326	-
AKV	1-326	-
ALE	1-326	-
ALN	1-326	-
AMQ	1-326	-
AMZ	1-326	-
ANI	1-326	-
AOL	1-326	-
AOU	1-326	-
APD	1-326	-
AQG	1-326	-
AQP	1-326	-
AQY	1-326	-
ASB	1-326	-
ASK	1-326	-
AST	1-326	-

Chain ID	Rigid bodies	Non-rigid segments
ATW	1-326	-
AUF	1-326	-
AUO	1-326	-
AVR	1-326	-
AWA	1-326	-
AWJ	1-326	-
AXM	1-326	-
AXV	1-326	-
AYE	1-326	-
AYN	1-326	-
AZW	1-326	-
BAF	1-326	-
BAO	1-326	-
BAX	1-326	-
BCG	1-326	-
BCP	1-326	-
BCY	1-326	-
BDH	1-326	-
BEQ	1-326	-
BEZ	1-326	-
BFI	1-326	-
BFR	1-326	-
BHA	1-326	-
BHJ	1-326	-

Chain ID	Rigid bodies	Non-rigid segments
BHS	1-326	-
BIB	1-326	-
BJK	1-326	-
BJT	1-326	-
BKC	1-326	-
BKL	1-326	-
BLU	1-326	-
BMD	1-326	-
BMM	1-326	-
BMV	1-326	-
BOE	1-326	-
BON	1-326	-
BOW	1-326	-
BPF	1-326	-
R	1-1156	-
AI	1-1156	-
AZ	1-1156	-
BQ	1-1156	-
CH	1-1156	-
CY	1-1156	-
DP	1-1156	-
EG	1-1156	-
FA	1-1156	-
FU	1-1156	-

Chain ID	Rigid bodies	Non-rigid segments
GO	1-1156	-
HI	1-1156	-
IC	1-1156	-
IW	1-1156	-
JQ	1-1156	-
KK	1-1156	-
KT	1-1156	-
LT	1-1156	-
MC	1-1156	-
NC	1-1156	-
NL	1-1156	-
OL	1-1156	-
OU	1-1156	-
PU	1-1156	-
QD	1-1156	-
RD	1-1156	-
RM	1-1156	-
SM	1-1156	-
SV	1-1156	-
TV	1-1156	-
UE	1-1156	-
VE	1-1156	-
VN	1-1156	-
VW	1-1156	-

Chain ID	Rigid bodies	Non-rigid segments
WW	1-1156	-
XF	1-1156	-
XO	1-1156	-
YO	1-1156	-
YX	1-1156	-
ZG	1-1156	-
AAG	1-1156	-
AAP	1-1156	-
AAY	1-1156	-
ABY	1-1156	-
ACH	1-1156	-
ACQ	1-1156	-
ADQ	1-1156	-
ADZ	1-1156	-
AEI	1-1156	-
AFI	1-1156	-
AFR	1-1156	-
AGA	1-1156	-
AHA	1-1156	-
AHJ	1-1156	-
AHS	1-1156	-
AIS	1-1156	-
AJB	1-1156	-
AJK	1-1156	-

Chain ID	Rigid bodies	Non-rigid segments
AKN	1-1156	-
AKW	1-1156	-
ALF	1-1156	-
AMI	1-1156	-
AMR	1-1156	-
ANA	1-1156	-
AOD	1-1156	-
AOM	1-1156	-
AOV	1-1156	-
APY	1-1156	-
AQH	1-1156	-
AQQ	1-1156	-
ART	1-1156	-
ASC	1-1156	-
ASL	1-1156	-
ATO	1-1156	-
ATX	1-1156	-
AUG	1-1156	-
AVJ	1-1156	-
AVS	1-1156	-
AWB	1-1156	-
AXE	1-1156	-
AXN	1-1156	-
AXW	1-1156	-

Chain ID	Rigid bodies	Non-rigid segments
AYF	1-1156	-
AZO	1-1156	-
AZX	1-1156	-
BAG	1-1156	-
BAP	1-1156	-
BBY	1-1156	-
BCH	1-1156	-
BCQ	1-1156	-
BCZ	1-1156	-
BEI	1-1156	-
BER	1-1156	-
BFA	1-1156	-
BFJ	1-1156	-
BGS	1-1156	-
BHB	1-1156	-
BHK	1-1156	-
BHT	1-1156	-
BJC	1-1156	-
BJL	1-1156	-
BJU	1-1156	-
BKD	1-1156	-
BLM	1-1156	-
BLV	1-1156	-
BME	1-1156	-

Chain ID	Rigid bodies	Non-rigid segments
BMN	1-1156	-
BNW	1-1156	-
BOF	1-1156	-
BOO	1-1156	-
BOX	1-1156	-
B	1-925	-
S	1-925	-
AJ	1-925	-
BA	1-925	-
BR	1-925	-
CI	1-925	-
CZ	1-925	-
DQ	1-925	-
EH	1-925	-
FB	1-925	-
FV	1-925	-
GP	1-925	-
HJ	1-925	-
ID	1-925	-
IX	1-925	-
JR	1-925	-
KL	1-925	-
KU	1-925	-
LU	1-925	-

Chain ID	Rigid bodies	Non-rigid segments
MD	1-925	-
ND	1-925	-
NM	1-925	-
OM	1-925	-
OV	1-925	-
PV	1-925	-
QE	1-925	-
RE	1-925	-
RN	1-925	-
SN	1-925	-
SW	1-925	-
TW	1-925	-
UF	1-925	-
VF	1-925	-
VO	1-925	-
VX	1-925	-
WX	1-925	-
XG	1-925	-
XP	1-925	-
YP	1-925	-
YY	1-925	-
ZH	1-925	-
AAH	1-925	-
AAQ	1-925	-

Chain ID	Rigid bodies	Non-rigid segments
AAZ	1-925	-
ABZ	1-925	-
ACI	1-925	-
ACR	1-925	-
ADR	1-925	-
AEA	1-925	-
AEJ	1-925	-
AFJ	1-925	-
AFS	1-925	-
AGB	1-925	-
AHB	1-925	-
AHK	1-925	-
AHT	1-925	-
AIT	1-925	-
AJC	1-925	-
AJL	1-925	-
AKO	1-925	-
AKX	1-925	-
ALG	1-925	-
AMJ	1-925	-
AMS	1-925	-
ANB	1-925	-
AOE	1-925	-
AON	1-925	-

Chain ID	Rigid bodies	Non-rigid segments
AOW	1-925	-
APZ	1-925	-
AQI	1-925	-
AQR	1-925	-
ARU	1-925	-
ASD	1-925	-
ASM	1-925	-
ATP	1-925	-
ATY	1-925	-
AUH	1-925	-
AVK	1-925	-
AVT	1-925	-
AWC	1-925	-
AXF	1-925	-
AXO	1-925	-
AXX	1-925	-
AYG	1-925	-
AZP	1-925	-
AZY	1-925	-
BAH	1-925	-
BAQ	1-925	-
BBZ	1-925	-
BCI	1-925	-
BCR	1-925	-

Chain ID	Rigid bodies	Non-rigid segments
BDA	1-925	-
BEJ	1-925	-
BES	1-925	-
BFB	1-925	-
BFK	1-925	-
BGT	1-925	-
BHC	1-925	-
BHL	1-925	-
BHU	1-925	-
BJD	1-925	-
BJM	1-925	-
BJV	1-925	-
BKE	1-925	-
BLN	1-925	-
BLW	1-925	-
BMF	1-925	-
BMO	1-925	-
BNX	1-925	-
BOG	1-925	-
BOP	1-925	-
BOY	1-925	-
C	1-1817	-
T	1-1817	-
AK	1-1817	-

Chain ID	Rigid bodies	Non-rigid segments
BB	1-1817	-
BS	1-1817	-
CJ	1-1817	-
DA	1-1817	-
DR	1-1817	-
EI	1-1817	-
FC	1-1817	-
FW	1-1817	-
GQ	1-1817	-
HK	1-1817	-
IE	1-1817	-
IY	1-1817	-
JS	1-1817	-
KM	1-1817	-
KV	1-1817	-
LV	1-1817	-
ME	1-1817	-
NE	1-1817	-
NN	1-1817	-
ON	1-1817	-
OW	1-1817	-
PW	1-1817	-
QF	1-1817	-
RF	1-1817	-

Chain ID	Rigid bodies	Non-rigid segments
RO	1-1817	-
SO	1-1817	-
SX	1-1817	-
TX	1-1817	-
UG	1-1817	-
VG	1-1817	-
VP	1-1817	-
VY	1-1817	-
WY	1-1817	-
XH	1-1817	-
XQ	1-1817	-
YQ	1-1817	-
YZ	1-1817	-
ZI	1-1817	-
AAI	1-1817	-
AAR	1-1817	-
ABA	1-1817	-
ACA	1-1817	-
ACJ	1-1817	-
ACS	1-1817	-
ADS	1-1817	-
AEB	1-1817	-
AEK	1-1817	-
AFK	1-1817	-

Chain ID	Rigid bodies	Non-rigid segments
AFT	1-1817	-
AGC	1-1817	-
AHC	1-1817	-
AHL	1-1817	-
AHU	1-1817	-
AIU	1-1817	-
AJD	1-1817	-
AJM	1-1817	-
AKP	1-1817	-
AKY	1-1817	-
ALH	1-1817	-
AMK	1-1817	-
AMT	1-1817	-
ANC	1-1817	-
AOF	1-1817	-
AOO	1-1817	-
AOX	1-1817	-
AQA	1-1817	-
AQJ	1-1817	-
AQS	1-1817	-
ARV	1-1817	-
ASE	1-1817	-
ASN	1-1817	-
ATQ	1-1817	-

Chain ID	Rigid bodies	Non-rigid segments
ATZ	1-1817	-
AUI	1-1817	-
AVL	1-1817	-
AVU	1-1817	-
AWD	1-1817	-
AXG	1-1817	-
AXP	1-1817	-
AXY	1-1817	-
AYH	1-1817	-
AZQ	1-1817	-
AZZ	1-1817	-
BAI	1-1817	-
BAR	1-1817	-
BCA	1-1817	-
BCJ	1-1817	-
BCS	1-1817	-
BDB	1-1817	-
BEK	1-1817	-
BET	1-1817	-
BFC	1-1817	-
BFL	1-1817	-
BGU	1-1817	-
BHD	1-1817	-
BHM	1-1817	-

Chain ID	Rigid bodies	Non-rigid segments
BHV	1-1817	-
BJE	1-1817	-
BJN	1-1817	-
BJW	1-1817	-
BKF	1-1817	-
BLO	1-1817	-
BLX	1-1817	-
BMG	1-1817	-
BMP	1-1817	-
BNY	1-1817	-
BOH	1-1817	-
BOQ	1-1817	-
BOZ	1-1817	-
D	1-322	-
U	1-322	-
AL	1-322	-
BC	1-322	-
BT	1-322	-
CK	1-322	-
DB	1-322	-
DS	1-322	-
EJ	1-322	-
FD	1-322	-
FX	1-322	-

Chain ID	Rigid bodies	Non-rigid segments
GR	1-322	-
HL	1-322	-
IF	1-322	-
IZ	1-322	-
JT	1-322	-
KN	1-322	-
KW	1-322	-
LW	1-322	-
MF	1-322	-
NF	1-322	-
NO	1-322	-
OO	1-322	-
OX	1-322	-
PX	1-322	-
QG	1-322	-
RG	1-322	-
RP	1-322	-
SP	1-322	-
SY	1-322	-
TY	1-322	-
UH	1-322	-
VH	1-322	-
VQ	1-322	-
VZ	1-322	-

Chain ID	Rigid bodies	Non-rigid segments
WZ	1-322	-
XI	1-322	-
XR	1-322	-
YR	1-322	-
ZA	1-322	-
ZJ	1-322	-
AAJ	1-322	-
AAS	1-322	-
ABB	1-322	-
ACB	1-322	-
ACK	1-322	-
ACT	1-322	-
ADT	1-322	-
AEC	1-322	-
AEL	1-322	-
AFL	1-322	-
AFU	1-322	-
AGD	1-322	-
AHD	1-322	-
AHM	1-322	-
AHV	1-322	-
AIV	1-322	-
AJE	1-322	-
AJN	1-322	-

Chain ID	Rigid bodies	Non-rigid segments
AKQ	1-322	-
AKZ	1-322	-
ALI	1-322	-
AML	1-322	-
AMU	1-322	-
AND	1-322	-
AOG	1-322	-
AOP	1-322	-
AOY	1-322	-
AQB	1-322	-
AQK	1-322	-
AQT	1-322	-
ARW	1-322	-
ASF	1-322	-
ASO	1-322	-
ATR	1-322	-
AUA	1-322	-
AUJ	1-322	-
AVM	1-322	-
AVV	1-322	-
AWE	1-322	-
AXH	1-322	-
AXQ	1-322	-
AXZ	1-322	-

Chain ID	Rigid bodies	Non-rigid segments
AYI	1-322	-
AZR	1-322	-
BAA	1-322	-
BAJ	1-322	-
BAS	1-322	-
BCB	1-322	-
BCK	1-322	-
BCT	1-322	-
BDC	1-322	-
BEL	1-322	-
BEU	1-322	-
BFD	1-322	-
BFM	1-322	-
BGV	1-322	-
BHE	1-322	-
BHN	1-322	-
BHW	1-322	-
BJF	1-322	-
BJO	1-322	-
BJX	1-322	-
BKG	1-322	-
BLP	1-322	-
BLY	1-322	-
BMH	1-322	-

Chain ID	Rigid bodies	Non-rigid segments
BMQ	1-322	-
BNZ	1-322	-
BOI	1-322	-
BOR	1-322	-
BPA	1-322	-
E	1-360	-
V	1-360	-
AM	1-360	-
BD	1-360	-
BU	1-360	-
CL	1-360	-
DC	1-360	-
DT	1-360	-
EK	1-360	-
FE	1-360	-
FY	1-360	-
GS	1-360	-
HM	1-360	-
IG	1-360	-
JA	1-360	-
JU	1-360	-
KO	1-360	-
KX	1-360	-
LX	1-360	-

Chain ID	Rigid bodies	Non-rigid segments
MG	1-360	-
NG	1-360	-
NP	1-360	-
OP	1-360	-
OY	1-360	-
PY	1-360	-
QH	1-360	-
RH	1-360	-
RQ	1-360	-
SQ	1-360	-
SZ	1-360	-
TZ	1-360	-
UI	1-360	-
VI	1-360	-
VR	1-360	-
WA	1-360	-
XA	1-360	-
XJ	1-360	-
XS	1-360	-
YS	1-360	-
ZB	1-360	-
ZK	1-360	-
AAK	1-360	-
AAT	1-360	-

Chain ID	Rigid bodies	Non-rigid segments
ABC	1-360	-
ACC	1-360	-
ACL	1-360	-
ACU	1-360	-
ADU	1-360	-
AED	1-360	-
AEM	1-360	-
AFM	1-360	-
AFV	1-360	-
AGE	1-360	-
AHE	1-360	-
AHN	1-360	-
AHW	1-360	-
AIW	1-360	-
AJF	1-360	-
AJO	1-360	-
AKR	1-360	-
ALA	1-360	-
ALJ	1-360	-
AMM	1-360	-
AMV	1-360	-
ANE	1-360	-
AOH	1-360	-
AOQ	1-360	-

Chain ID	Rigid bodies	Non-rigid segments
AOZ	1-360	-
AQC	1-360	-
AQL	1-360	-
AQU	1-360	-
ARX	1-360	-
ASG	1-360	-
ASP	1-360	-
ATS	1-360	-
AUB	1-360	-
AUK	1-360	-
AVN	1-360	-
AVW	1-360	-
AWF	1-360	-
AXI	1-360	-
AXR	1-360	-
AYA	1-360	-
AYJ	1-360	-
AZS	1-360	-
BAB	1-360	-
BAK	1-360	-
BAT	1-360	-
BCC	1-360	-
BCL	1-360	-
BCU	1-360	-

Chain ID	Rigid bodies	Non-rigid segments
BDD	1-360	-
BEM	1-360	-
BEV	1-360	-
BFE	1-360	-
BFN	1-360	-
BGW	1-360	-
BHF	1-360	-
BHO	1-360	-
BHX	1-360	-
BJG	1-360	-
BJP	1-360	-
BJY	1-360	-
BKH	1-360	-
BLQ	1-360	-
BLZ	1-360	-
BMI	1-360	-
BMR	1-360	-
BOA	1-360	-
BOJ	1-360	-
BOS	1-360	-
BPB	1-360	-
F	1-656	-
W	1-656	-
AN	1-656	-

Chain ID	Rigid bodies	Non-rigid segments
BE	1-656	-
BV	1-656	-
CM	1-656	-
DD	1-656	-
DU	1-656	-
EL	1-656	-
FF	1-656	-
FZ	1-656	-
GT	1-656	-
HN	1-656	-
IH	1-656	-
JB	1-656	-
JV	1-656	-
KP	1-656	-
KY	1-656	-
LY	1-656	-
MH	1-656	-
NH	1-656	-
NQ	1-656	-
OQ	1-656	-
OZ	1-656	-
PZ	1-656	-
QI	1-656	-
RI	1-656	-

Chain ID	Rigid bodies	Non-rigid segments
RR	1-656	-
SR	1-656	-
TA	1-656	-
UA	1-656	-
UJ	1-656	-
VJ	1-656	-
VS	1-656	-
WB	1-656	-
XB	1-656	-
XK	1-656	-
XT	1-656	-
YT	1-656	-
ZC	1-656	-
ZL	1-656	-
AAL	1-656	-
AAU	1-656	-
ABD	1-656	-
ACD	1-656	-
ACM	1-656	-
ACV	1-656	-
ADV	1-656	-
AEE	1-656	-
AEN	1-656	-
AFN	1-656	-

Chain ID	Rigid bodies	Non-rigid segments
AFW	1-656	-
AGF	1-656	-
AHF	1-656	-
AHO	1-656	-
AHX	1-656	-
AIX	1-656	-
AJG	1-656	-
AJP	1-656	-
AKS	1-656	-
ALB	1-656	-
ALK	1-656	-
AMN	1-656	-
AMW	1-656	-
ANF	1-656	-
AOI	1-656	-
AOR	1-656	-
APA	1-656	-
AQD	1-656	-
AQM	1-656	-
AQV	1-656	-
ARY	1-656	-
ASH	1-656	-
ASQ	1-656	-
ATT	1-656	-

Chain ID	Rigid bodies	Non-rigid segments
AUC	1-656	-
AUL	1-656	-
AVO	1-656	-
AVX	1-656	-
AWG	1-656	-
AXJ	1-656	-
AXS	1-656	-
AYB	1-656	-
AYK	1-656	-
AZT	1-656	-
BAC	1-656	-
BAL	1-656	-
BAU	1-656	-
BCD	1-656	-
BCM	1-656	-
BCV	1-656	-
BDE	1-656	-
BEN	1-656	-
BEW	1-656	-
BFF	1-656	-
BFO	1-656	-
BGX	1-656	-
BHG	1-656	-
BHP	1-656	-

Chain ID	Rigid bodies	Non-rigid segments
BHY	1-656	-
BJH	1-656	-
BJQ	1-656	-
BJZ	1-656	-
BKI	1-656	-
BLR	1-656	-
BMA	1-656	-
BMJ	1-656	-
BMS	1-656	-
BOB	1-656	-
BOK	1-656	-
BOT	1-656	-
BPC	1-656	-
P	1-1391	-
Q	1-1391	-
AC	1-1391	-
AG	1-1391	-
AH	1-1391	-
AT	1-1391	-
AX	1-1391	-
AY	1-1391	-
BK	1-1391	-
BO	1-1391	-
BP	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
CB	1-1391	-
CF	1-1391	-
CG	1-1391	-
CS	1-1391	-
CW	1-1391	-
CX	1-1391	-
DJ	1-1391	-
DN	1-1391	-
DO	1-1391	-
EA	1-1391	-
EE	1-1391	-
EF	1-1391	-
ER	1-1391	-
EU	1-1391	-
EY	1-1391	-
EZ	1-1391	-
FL	1-1391	-
FO	1-1391	-
FS	1-1391	-
FT	1-1391	-
GF	1-1391	-
GI	1-1391	-
GM	1-1391	-
GN	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
GZ	1-1391	-
HC	1-1391	-
HG	1-1391	-
HH	1-1391	-
HT	1-1391	-
HW	1-1391	-
IA	1-1391	-
IB	1-1391	-
IN	1-1391	-
IQ	1-1391	-
IU	1-1391	-
IV	1-1391	-
JH	1-1391	-
JK	1-1391	-
JO	1-1391	-
JP	1-1391	-
KB	1-1391	-
KE	1-1391	-
KI	1-1391	-
KJ	1-1391	-
LE	1-1391	-
LH	1-1391	-
LR	1-1391	-
LS	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
MN	1-1391	-
MQ	1-1391	-
NA	1-1391	-
NB	1-1391	-
NW	1-1391	-
NZ	1-1391	-
OJ	1-1391	-
OK	1-1391	-
PF	1-1391	-
PI	1-1391	-
PS	1-1391	-
PT	1-1391	-
QO	1-1391	-
QR	1-1391	-
RB	1-1391	-
RC	1-1391	-
RX	1-1391	-
SA	1-1391	-
SK	1-1391	-
SL	1-1391	-
TG	1-1391	-
TJ	1-1391	-
TT	1-1391	-
TU	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
UP	1-1391	-
US	1-1391	-
VC	1-1391	-
VD	1-1391	-
WH	1-1391	-
WK	1-1391	-
WU	1-1391	-
WV	1-1391	-
XZ	1-1391	-
YC	1-1391	-
YM	1-1391	-
YN	1-1391	-
ZR	1-1391	-
ZU	1-1391	-
AAE	1-1391	-
AAF	1-1391	-
ABJ	1-1391	-
ABM	1-1391	-
ABW	1-1391	-
ABX	1-1391	-
ADB	1-1391	-
ADE	1-1391	-
ADO	1-1391	-
ADP	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
AET	1-1391	-
AEW	1-1391	-
AFG	1-1391	-
AFH	1-1391	-
AGL	1-1391	-
AGO	1-1391	-
AGY	1-1391	-
AGZ	1-1391	-
AID	1-1391	-
AIG	1-1391	-
AIQ	1-1391	-
AIR	1-1391	-
AJV	1-1391	-
AJY	1-1391	-
AKL	1-1391	-
AKM	1-1391	-
ALQ	1-1391	-
ALT	1-1391	-
AMG	1-1391	-
AMH	1-1391	-
ANL	1-1391	-
ANO	1-1391	-
AOB	1-1391	-
AOC	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
APG	1-1391	-
APJ	1-1391	-
APW	1-1391	-
APX	1-1391	-
ARB	1-1391	-
ARE	1-1391	-
ARR	1-1391	-
ARS	1-1391	-
ASW	1-1391	-
ASZ	1-1391	-
ATM	1-1391	-
ATN	1-1391	-
AUR	1-1391	-
AUU	1-1391	-
AVH	1-1391	-
AVI	1-1391	-
AWM	1-1391	-
AWP	1-1391	-
AXC	1-1391	-
AXD	1-1391	-
AYQ	1-1391	-
AYT	1-1391	-
AYW	1-1391	-
AYZ	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
AZM	1-1391	-
AZN	1-1391	-
BBA	1-1391	-
BBD	1-1391	-
BBG	1-1391	-
BBJ	1-1391	-
BBW	1-1391	-
BBX	1-1391	-
BDK	1-1391	-
BDN	1-1391	-
BDQ	1-1391	-
BDT	1-1391	-
BEG	1-1391	-
BEH	1-1391	-
BFU	1-1391	-
BFX	1-1391	-
BGA	1-1391	-
BGD	1-1391	-
BGQ	1-1391	-
BGR	1-1391	-
BIE	1-1391	-
BIH	1-1391	-
BIK	1-1391	-
BIN	1-1391	-

Chain ID	Rigid bodies	Non-rigid segments
BJA	1-1391	-
BJB	1-1391	-
BKO	1-1391	-
BKR	1-1391	-
BKU	1-1391	-
BKX	1-1391	-
BLK	1-1391	-
BLL	1-1391	-
BMY	1-1391	-
BNB	1-1391	-
BNE	1-1391	-
BNH	1-1391	-
BNU	1-1391	-
BNV	1-1391	-
BPI	1-1391	-
BPL	1-1391	-
BPO	1-1391	-
BPR	1-1391	-
BQE	1-1391	-
BQF	1-1391	-
J	1-819	-
AA	1-819	-
AR	1-819	-
BI	1-819	-

Chain ID	Rigid bodies	Non-rigid segments
BZ	1-819	-
CQ	1-819	-
DH	1-819	-
DY	1-819	-
EP	1-819	-
ES	1-819	-
FJ	1-819	-
FM	1-819	-
GD	1-819	-
GG	1-819	-
GX	1-819	-
HA	1-819	-
HR	1-819	-
HU	1-819	-
IL	1-819	-
IO	1-819	-
JF	1-819	-
JI	1-819	-
JZ	1-819	-
KC	1-819	-
LC	1-819	-
LF	1-819	-
ML	1-819	-
MO	1-819	-

Chain ID	Rigid bodies	Non-rigid segments
NU	1-819	-
NX	1-819	-
PD	1-819	-
PG	1-819	-
QM	1-819	-
QP	1-819	-
RV	1-819	-
RY	1-819	-
TE	1-819	-
TH	1-819	-
UN	1-819	-
UQ	1-819	-
WF	1-819	-
WI	1-819	-
XX	1-819	-
YA	1-819	-
ZP	1-819	-
ZS	1-819	-
ABH	1-819	-
ABK	1-819	-
ACZ	1-819	-
ADC	1-819	-
AER	1-819	-
AEU	1-819	-

Chain ID	Rigid bodies	Non-rigid segments
AGJ	1-819	-
AGM	1-819	-
AIB	1-819	-
AIE	1-819	-
AJT	1-819	-
AJW	1-819	-
ALO	1-819	-
ALR	1-819	-
ANJ	1-819	-
ANM	1-819	-
APE	1-819	-
APH	1-819	-
AQZ	1-819	-
ARC	1-819	-
ASU	1-819	-
ASX	1-819	-
AUP	1-819	-
AUS	1-819	-
AWK	1-819	-
AWN	1-819	-
AYO	1-819	-
AYR	1-819	-
AYU	1-819	-
AYX	1-819	-

Chain ID	Rigid bodies	Non-rigid segments
BAY	1-819	-
BBB	1-819	-
BBE	1-819	-
BBH	1-819	-
BDI	1-819	-
BDL	1-819	-
BDO	1-819	-
BDR	1-819	-
BFS	1-819	-
BFV	1-819	-
BFY	1-819	-
BGB	1-819	-
BIC	1-819	-
BIF	1-819	-
BII	1-819	-
BIL	1-819	-
BKM	1-819	-
BKP	1-819	-
BKS	1-819	-
BKV	1-819	-
BMW	1-819	-
BMZ	1-819	-
BNC	1-819	-
BNF	1-819	-

Chain ID	Rigid bodies	Non-rigid segments
BPG	1-819	-
BPJ	1-819	-
BPM	1-819	-
BPP	1-819	-
K	1-2012	-
AB	1-2012	-
AS	1-2012	-
BJ	1-2012	-
CA	1-2012	-
CR	1-2012	-
DI	1-2012	-
DZ	1-2012	-
EQ	1-2012	-
ET	1-2012	-
FK	1-2012	-
FN	1-2012	-
GE	1-2012	-
GH	1-2012	-
GY	1-2012	-
HB	1-2012	-
HS	1-2012	-
HV	1-2012	-
IM	1-2012	-
IP	1-2012	-

Chain ID	Rigid bodies	Non-rigid segments
JG	1-2012	-
JJ	1-2012	-
KA	1-2012	-
KD	1-2012	-
LD	1-2012	-
LG	1-2012	-
MM	1-2012	-
MP	1-2012	-
NV	1-2012	-
NY	1-2012	-
PE	1-2012	-
PH	1-2012	-
QN	1-2012	-
QQ	1-2012	-
RW	1-2012	-
RZ	1-2012	-
TF	1-2012	-
TI	1-2012	-
UO	1-2012	-
UR	1-2012	-
WG	1-2012	-
WJ	1-2012	-
XY	1-2012	-
YB	1-2012	-

Chain ID	Rigid bodies	Non-rigid segments
ZQ	1-2012	-
ZT	1-2012	-
ABI	1-2012	-
ABL	1-2012	-
ADA	1-2012	-
ADD	1-2012	-
AES	1-2012	-
AEV	1-2012	-
AGK	1-2012	-
AGN	1-2012	-
AIC	1-2012	-
AIF	1-2012	-
AJU	1-2012	-
AJX	1-2012	-
ALP	1-2012	-
ALS	1-2012	-
ANK	1-2012	-
ANN	1-2012	-
APF	1-2012	-
API	1-2012	-
ARA	1-2012	-
ARD	1-2012	-
ASV	1-2012	-
ASY	1-2012	-

Chain ID	Rigid bodies	Non-rigid segments
AUQ	1-2012	-
AUT	1-2012	-
AWL	1-2012	-
AWO	1-2012	-
AYP	1-2012	-
AYV	1-2012	-
BAZ	1-2012	-
BBF	1-2012	-
BDJ	1-2012	-
BDP	1-2012	-
BFT	1-2012	-
BFZ	1-2012	-
BID	1-2012	-
BIJ	1-2012	-
BKN	1-2012	-
BKT	1-2012	-
BMX	1-2012	-
BND	1-2012	-
BPH	1-2012	-
BPN	1-2012	-
AYS	1-1749	-
AYY	1-1749	-
BBC	1-1749	-
BBI	1-1749	-

Chain ID	Rigid bodies	Non-rigid segments
BDM	1-1749	-
BDS	1-1749	-
BFW	1-1749	-
BGC	1-1749	-
BIG	1-1749	-
BIM	1-1749	-
BKQ	1-1749	-
BKW	1-1749	-
BNA	1-1749	-
BNG	1-1749	-
BPK	1-1749	-
BPQ	1-1749	-
M	1-507	-
AD	1-507	-
AU	1-507	-
BL	1-507	-
CC	1-507	-
CT	1-507	-
DK	1-507	-
EB	1-507	-
EV	1-507	-
FP	1-507	-
GJ	1-507	-
HD	1-507	-

Chain ID	Rigid bodies	Non-rigid segments
HX	1-507	-
IR	1-507	-
JL	1-507	-
KF	1-507	-
LI	1-507	-
LL	1-507	-
LO	1-507	-
MR	1-507	-
MU	1-507	-
MX	1-507	-
OA	1-507	-
OD	1-507	-
OG	1-507	-
PJ	1-507	-
PM	1-507	-
PP	1-507	-
QS	1-507	-
QV	1-507	-
QY	1-507	-
SB	1-507	-
SE	1-507	-
SH	1-507	-
TK	1-507	-
TN	1-507	-

Chain ID	Rigid bodies	Non-rigid segments
TQ	1-507	-
UT	1-507	-
UW	1-507	-
UZ	1-507	-
WL	1-507	-
WO	1-507	-
WR	1-507	-
YD	1-507	-
YG	1-507	-
YJ	1-507	-
ZV	1-507	-
ZY	1-507	-
AAB	1-507	-
ABN	1-507	-
ABQ	1-507	-
ABT	1-507	-
ADF	1-507	-
ADI	1-507	-
ADL	1-507	-
AEX	1-507	-
AFA	1-507	-
AFD	1-507	-
AGP	1-507	-
AGS	1-507	-

Chain ID	Rigid bodies	Non-rigid segments
AGV	1-507	-
AIH	1-507	-
AIK	1-507	-
AIN	1-507	-
AJZ	1-507	-
AKC	1-507	-
AKF	1-507	-
AKI	1-507	-
ALU	1-507	-
ALX	1-507	-
AMA	1-507	-
AMD	1-507	-
ANP	1-507	-
ANS	1-507	-
ANV	1-507	-
ANY	1-507	-
APK	1-507	-
APN	1-507	-
APQ	1-507	-
APT	1-507	-
ARF	1-507	-
ARI	1-507	-
ARL	1-507	-
ARO	1-507	-

Chain ID	Rigid bodies	Non-rigid segments
ATA	1-507	-
ATD	1-507	-
ATG	1-507	-
ATJ	1-507	-
AUV	1-507	-
AUY	1-507	-
AVB	1-507	-
AVE	1-507	-
AWQ	1-507	-
AWT	1-507	-
AWW	1-507	-
AWZ	1-507	-
AZA	1-507	-
AZD	1-507	-
AZG	1-507	-
AZJ	1-507	-
BBK	1-507	-
BBN	1-507	-
BBQ	1-507	-
BBT	1-507	-
BDU	1-507	-
BDX	1-507	-
BEA	1-507	-
BED	1-507	-

Chain ID	Rigid bodies	Non-rigid segments
BGE	1-507	-
BGH	1-507	-
BGK	1-507	-
BGN	1-507	-
BIO	1-507	-
BIR	1-507	-
BIU	1-507	-
BIX	1-507	-
BKY	1-507	-
BLB	1-507	-
BLE	1-507	-
BLH	1-507	-
BNI	1-507	-
BNL	1-507	-
BNO	1-507	-
BNR	1-507	-
BPS	1-507	-
BPV	1-507	-
BPY	1-507	-
BQB	1-507	-
N	1-599	-
AE	1-599	-
AV	1-599	-
BM	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
CD	1-599	-
CU	1-599	-
DL	1-599	-
EC	1-599	-
EW	1-599	-
FQ	1-599	-
GK	1-599	-
HE	1-599	-
HY	1-599	-
IS	1-599	-
JM	1-599	-
KG	1-599	-
LJ	1-599	-
LM	1-599	-
LP	1-599	-
MS	1-599	-
MV	1-599	-
MY	1-599	-
OB	1-599	-
OE	1-599	-
OH	1-599	-
PK	1-599	-
PN	1-599	-
PQ	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
QT	1-599	-
QW	1-599	-
QZ	1-599	-
SC	1-599	-
SF	1-599	-
SI	1-599	-
TL	1-599	-
TO	1-599	-
TR	1-599	-
UU	1-599	-
UX	1-599	-
VA	1-599	-
WM	1-599	-
WP	1-599	-
WS	1-599	-
YE	1-599	-
YH	1-599	-
YK	1-599	-
ZW	1-599	-
ZZ	1-599	-
AAC	1-599	-
ABO	1-599	-
ABR	1-599	-
ABU	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
ADG	1-599	-
ADJ	1-599	-
ADM	1-599	-
AEY	1-599	-
AFB	1-599	-
AFE	1-599	-
AGQ	1-599	-
AGT	1-599	-
AGW	1-599	-
AII	1-599	-
AIL	1-599	-
AIO	1-599	-
AKA	1-599	-
AKD	1-599	-
AKG	1-599	-
AKJ	1-599	-
ALV	1-599	-
ALY	1-599	-
AMB	1-599	-
AME	1-599	-
ANQ	1-599	-
ANT	1-599	-
ANW	1-599	-
ANZ	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
APL	1-599	-
APO	1-599	-
APR	1-599	-
APU	1-599	-
ARG	1-599	-
ARJ	1-599	-
ARM	1-599	-
ARP	1-599	-
ATB	1-599	-
ATE	1-599	-
ATH	1-599	-
ATK	1-599	-
AUW	1-599	-
AUZ	1-599	-
AVC	1-599	-
AVF	1-599	-
AWR	1-599	-
AWU	1-599	-
AWX	1-599	-
AXA	1-599	-
AZB	1-599	-
AZE	1-599	-
AZH	1-599	-
AZK	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
BBL	1-599	-
BBO	1-599	-
BBR	1-599	-
BBU	1-599	-
BDV	1-599	-
BDY	1-599	-
BEB	1-599	-
BEE	1-599	-
BGF	1-599	-
BGI	1-599	-
BGL	1-599	-
BGO	1-599	-
BIP	1-599	-
BIS	1-599	-
BIV	1-599	-
BIY	1-599	-
BKZ	1-599	-
BLC	1-599	-
BLF	1-599	-
BLI	1-599	-
BNJ	1-599	-
BNM	1-599	-
BNP	1-599	-
BNS	1-599	-

Chain ID	Rigid bodies	Non-rigid segments
BPT	1-599	-
BPW	1-599	-
BPZ	1-599	-
BQC	1-599	-
O	1-522	-
AF	1-522	-
AW	1-522	-
BN	1-522	-
CE	1-522	-
CV	1-522	-
DM	1-522	-
ED	1-522	-
EX	1-522	-
FR	1-522	-
GL	1-522	-
HF	1-522	-
HZ	1-522	-
IT	1-522	-
JN	1-522	-
KH	1-522	-
LK	1-522	-
LN	1-522	-
LQ	1-522	-
MT	1-522	-

Chain ID	Rigid bodies	Non-rigid segments
MW	1-522	-
MZ	1-522	-
OC	1-522	-
OF	1-522	-
OI	1-522	-
PL	1-522	-
PO	1-522	-
PR	1-522	-
QU	1-522	-
QX	1-522	-
RA	1-522	-
SD	1-522	-
SG	1-522	-
SJ	1-522	-
TM	1-522	-
TP	1-522	-
TS	1-522	-
UV	1-522	-
UY	1-522	-
VB	1-522	-
WN	1-522	-
WQ	1-522	-
WT	1-522	-
YF	1-522	-

Chain ID	Rigid bodies	Non-rigid segments
YI	1-522	-
YL	1-522	-
ZX	1-522	-
AAA	1-522	-
AAD	1-522	-
ABP	1-522	-
ABS	1-522	-
ABV	1-522	-
ADH	1-522	-
ADK	1-522	-
ADN	1-522	-
AEZ	1-522	-
AFC	1-522	-
AFF	1-522	-
AGR	1-522	-
AGU	1-522	-
AGX	1-522	-
AIJ	1-522	-
AIM	1-522	-
AIP	1-522	-
AKB	1-522	-
AKE	1-522	-
AKH	1-522	-
AKK	1-522	-

Chain ID	Rigid bodies	Non-rigid segments
ALW	1-522	-
ALZ	1-522	-
AMC	1-522	-
AMF	1-522	-
ANR	1-522	-
ANU	1-522	-
ANX	1-522	-
AOA	1-522	-
APM	1-522	-
APP	1-522	-
APS	1-522	-
APV	1-522	-
ARH	1-522	-
ARK	1-522	-
ARN	1-522	-
ARQ	1-522	-
ATC	1-522	-
ATF	1-522	-
ATI	1-522	-
ATL	1-522	-
AUX	1-522	-
AVA	1-522	-
AVD	1-522	-
AVG	1-522	-

Chain ID	Rigid bodies	Non-rigid segments
AWS	1-522	-
AWV	1-522	-
AWY	1-522	-
AXB	1-522	-
AZC	1-522	-
AZF	1-522	-
AZI	1-522	-
AZL	1-522	-
BBM	1-522	-
BBP	1-522	-
BBS	1-522	-
BBV	1-522	-
BDW	1-522	-
BDZ	1-522	-
BEC	1-522	-
BEF	1-522	-
BGG	1-522	-
BGJ	1-522	-
BGM	1-522	-
BGP	1-522	-
BIQ	1-522	-
BIT	1-522	-
BIW	1-522	-
BIZ	1-522	-

Chain ID	Rigid bodies	Non-rigid segments
BLA	1-522	-
BLD	1-522	-
BLG	1-522	-
BLJ	1-522	-
BNK	1-522	-
BNN	1-522	-
BNQ	1-522	-
BNT	1-522	-
BPU	1-522	-
BPX	1-522	-
BQA	1-522	-
BQD	1-522	-

Methodology and software

This entry is a result of 6 distinct protocol(s).

Step number	Protocol ID	Method name	Method type	Method description	Number of computed models	Multi state modeling	Multi scale modeling
1	1	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True
1	2	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True
1	3	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True
1	4	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True
1	5	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True

Step number	Protocol ID	Method name	Method type	Method description	Number of computed models	Multi state modeling	Multi scale modeling
1	6	MC sampling	Sampling	MC sampling with 1000000 steps	None	True	True

There are 2 software packages reported in this entry.

ID	Software name	Software version	Software classification	Software location
1	Integrative Modeling Platform	2.13.0	model preparation, model representation, sampling, data processing, data analysis	https://integrativemodeling.org/
2	gmconvert	v2020.05.10	processing of input data to modeling	https://pdbj.org/gmfit/doc_gmconvert/README_gmconvert.html#install

Data quality

3DEM volume

Validation for this section is under development.

Model quality

For models with atomic structures, molprobtity analysis is performed. For models with coarse-grained or multi-scale structures, excluded volume analysis is performed.

Excluded volume satisfaction

Excluded volume satisfaction for the models in the entry are listed below.

Models	Excluded Volume Satisfaction (%)	Number of violations
1	99.95	24403.0
2	99.98	20338.0
3	99.98	27358.0
4	99.99	33439.0

Models	Excluded Volume Satisfaction (%)	Number of violations
5	99.99	33709.0
6	99.99	49024.0

Fit of model to data used for modeling ?

3DEM volume

Validation for this section is under development.

Fit of model to data used for validation ?

Validation for this section is under development.

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