

Summary of integrative structure determination of Molecular assembly pathway of the human Nuclear Pore Complex after cell division (PDB ID: 9A25, PDB-Dev ID: PDBDEV_00000142)

1. Model Composition	
	<ul style="list-style-type: none"> - p58: Chain PK (599 residues) - Nup43: Chain BKJ (380 residues) - Nup85: Chain DU (656 residues) - Nup107: Chain ATY (925 residues) - Nup43: Chain ACE (380 residues) - Nup205: Chain ARD (2012 residues) - Nup96: Chain AAR (1817 residues) - Nup93: Chain BPP (819 residues) - Nup43: Chain BAD (380 residues) - Nup93: Chain HA (819 residues) - Nup155: Chain AJY (1391 residues) - Nup107: Chain VX (925 residues) - Nup155: Chain PF (1391 residues) - p54: Chain ALU (507 residues) - Nup85: Chain AHX (656 residues) - Nup155: Chain AIR (1391 residues) - Nup37: Chain BCY (326 residues) - p54: Chain BDU (507 residues) - Nup85: Chain XT (656 residues) - p58: Chain TR (599 residues) - p58: Chain ADJ (599 residues) - p62: Chain YI (522 residues) - Nup160: Chain BCX (1436 residues) - Nup96: Chain BDB (1817 residues) - Nup133: Chain BBY (1156 residues) - Nup155: Chain BDK (1391 residues) - Nup205: Chain BBF (2012 residues) - p58: Chain AKD (599 residues) - Nup37: Chain QC (326 residues) - Nup93: Chain AWK (819 residues) - Nup155: Chain ADB (1391 residues) - Nup160: Chain BEY (1436 residues) - Nup96: Chain BAR (1817 residues) - Nup133: Chain BOO (1156 residues) - Nup160: Chain TC (1436 residues) - Nup160: Chain WD (1436 residues) - Nup37: Chain XW (326 residues) - Nup205: Chain ANK (2012 residues) - Nup43: Chain BCW (380 residues) - SEH1: Chain AQL (360 residues) - Nup93: Chain BGB (819 residues) - p54: Chain BPY (507 residues) - p54: Chain JL (507 residues) - Nup160: Chain EN (1436 residues) - Nup43: Chain BMT (380 residues) - SEH1: Chain AYA (360 residues) - Nup107: Chain ZH (925 residues) - Nup37: Chain BOE (326 residues) - Nup107: Chain AAZ (925 residues) - SEC13: Chain AYI (322 residues) - p58: Chain MS (599 residues) - Nup160: Chain XD (1436 residues) - Nup205: Chain BKT (2012 residues) - SEH1: Chain VR (360 residues) - Nup133: Chain BEI (1156 residues)

- Nup43: Chain XL (380 residues)
- Nup96: Chain NN (1817 residues)
- Nup93: Chain QM (819 residues)
- SEC13: Chain BFD (322 residues)
- Nup93: Chain ML (819 residues)
- SEH1: Chain ATS (360 residues)
- Nup205: Chain TF (2012 residues)
- p62: Chain AMC (522 residues)
- Nup85: Chain XB (656 residues)
- Nup155: Chain LH (1391 residues)
- Nup155: Chain BIN (1391 residues)
- SEC13: Chain AEC (322 residues)
- p62: Chain AFC (522 residues)
- Nup37: Chain BOW (326 residues)
- Nup37: Chain ZF (326 residues)
- Nup155: Chain AWM (1391 residues)
- p58: Chain AMB (599 residues)
- Nup107: Chain ASD (925 residues)
- Nup160: Chain AMP (1436 residues)
- p54: Chain BBQ (507 residues)
- Nup93: Chain NU (819 residues)
- p54: Chain BLE (507 residues)
- Nup43: Chain AWH (380 residues)
- Nup43: Chain UK (380 residues)
- Nup205: Chain UO (2012 residues)
- Nup37: Chain ASK (326 residues)
- Nup96: Chain AHL (1817 residues)
- Nup43: Chain AVP (380 residues)
- SEH1: Chain XA (360 residues)
- Nup133: Chain RM (1156 residues)
- Nup107: Chain AHB (925 residues)
- Nup107: Chain SN (925 residues)
- Nup133: Chain BKD (1156 residues)
- Nup155: Chain BBW (1391 residues)
- Nup93: Chain AYX (819 residues)
- Nup37: Chain VM (326 residues)
- Nup43: Chain BHH (380 residues)
- Nup133: Chain YX (1156 residues)
- Nup43: Chain QJ (380 residues)
- Nup107: Chain ALG (925 residues)
- Nup96: Chain ADS (1817 residues)
- SEC13: Chain BLP (322 residues)
- SEC13: Chain AGD (322 residues)
- p58: Chain APR (599 residues)
- Nup93: Chain TE (819 residues)
- Nup107: Chain AXX (925 residues)
- Nup107: Chain BJV (925 residues)
- Nup43: Chain ARZ (380 residues)
- p62: Chain AZI (522 residues)
- p58: Chain MY (599 residues)
- Nup155: Chain WU (1391 residues)
- SEC13: Chain FX (322 residues)
- p58: Chain BLF (599 residues)
- Nup85: Chain ADV (656 residues)
- Nup43: Chain ZD (380 residues)
- Nup43: Chain KZ (380 residues)
- Nup160: Chain ALM (1436 residues)
- Nup93: Chain ANJ (819 residues)
- Nup85: Chain BAU (656 residues)
- Nup133: Chain AFR (1156 residues)
- Nup107: Chain PV (925 residues)
- p62: Chain ALW (522 residues)
- Nup133: Chain BAG (1156 residues)
- Nup160: Chain MA (1436 residues)

- Nup93: Chain BDO (819 residues)
- Nup160: Chain ZN (1436 residues)
- p54: Chain BGN (507 residues)
- p62: Chain HZ (522 residues)
- SEH1: Chain ACC (360 residues)
- Nup155: Chain BPI (1391 residues)
- p62: Chain QU (522 residues)
- Nup155: Chain AAF (1391 residues)
- Nup107: Chain S (925 residues)
- Nup188: Chain BIG (1749 residues)
- p54: Chain BNO (507 residues)
- SEH1: Chain AEM (360 residues)
- Nup37: Chain BKL (326 residues)
- Nup155: Chain BJB (1391 residues)
- Nup96: Chain XQ (1817 residues)
- Nup37: Chain AWJ (326 residues)
- Nup107: Chain TW (925 residues)
- SEH1: Chain AQC (360 residues)
- Nup85: Chain ABD (656 residues)
- Nup155: Chain UP (1391 residues)
- Nup155: Chain BNU (1391 residues)
- p62: Chain AW (522 residues)
- p62: Chain AAD (522 residues)
- Nup133: Chain AXE (1156 residues)
- Nup155: Chain BDQ (1391 residues)
- p62: Chain FR (522 residues)
- Nup205: Chain BDP (2012 residues)
- Nup160: Chain AUE (1436 residues)
- Nup93: Chain APE (819 residues)
- Nup37: Chain BMD (326 residues)
- SEH1: Chain HM (360 residues)
- Nup107: Chain YY (925 residues)
- Nup107: Chain BNX (925 residues)
- Nup205: Chain ADD (2012 residues)
- Nup160: Chain BCO (1436 residues)
- Nup96: Chain ME (1817 residues)
- Nup85: Chain ASH (656 residues)
- Nup188: Chain AYY (1749 residues)
- Nup155: Chain AOC (1391 residues)
- p54: Chain ANY (507 residues)
- p58: Chain BNP (599 residues)
- Nup205: Chain TI (2012 residues)
- SEH1: Chain E (360 residues)
- Nup37: Chain AQY (326 residues)
- Nup155: Chain BIK (1391 residues)
- Nup85: Chain AMN (656 residues)
- Nup107: Chain BLN (925 residues)
- Nup205: Chain APF (2012 residues)
- p58: Chain AAC (599 residues)
- p54: Chain AMA (507 residues)
- Nup107: Chain FV (925 residues)
- Nup133: Chain AXW (1156 residues)
- p58: Chain BEE (599 residues)
- p58: Chain AXA (599 residues)
- Nup96: Chain BNY (1817 residues)
- p54: Chain AGV (507 residues)
- p58: Chain BM (599 residues)
- SEC13: Chain QG (322 residues)
- p58: Chain TO (599 residues)
- Nup96: Chain AEB (1817 residues)
- Nup205: Chain MM (2012 residues)
- p58: Chain ZZ (599 residues)
- Nup37: Chain HQ (326 residues)
- Nup93: Chain BDL (819 residues)

- Nup85: Chain ALK (656 residues)
- Nup93: Chain BKP (819 residues)
- Nup155: Chain CF (1391 residues)
- SEH1: Chain AJF (360 residues)
- p62: Chain JN (522 residues)
- SEH1: Chain AUK (360 residues)
- SEH1: Chain BAB (360 residues)
- Nup107: Chain HJ (925 residues)
- Nup107: Chain OV (925 residues)
- p54: Chain HD (507 residues)
- p54: Chain BKY (507 residues)
- SEH1: Chain XJ (360 residues)
- p54: Chain GJ (507 residues)
- Nup107: Chain XG (925 residues)
- Nup133: Chain VW (1156 residues)
- SEH1: Chain OY (360 residues)
- Nup37: Chain AOU (326 residues)
- Nup133: Chain AZX (1156 residues)
- p58: Chain ALY (599 residues)
- SEH1: Chain AAK (360 residues)
- p58: Chain BDY (599 residues)
- Nup205: Chain CA (2012 residues)
- Nup205: Chain JJ (2012 residues)
- Nup85: Chain AEN (656 residues)
- SEC13: Chain AOP (322 residues)
- Nup85: Chain YT (656 residues)
- p62: Chain ABS (522 residues)
- Nup96: Chain RF (1817 residues)
- Nup188: Chain BDS (1749 residues)
- Nup37: Chain ACY (326 residues)
- p54: Chain WR (507 residues)
- Nup43: Chain ADW (380 residues)
- Nup85: Chain DD (656 residues)
- Nup133: Chain AQH (1156 residues)
- p62: Chain UY (522 residues)
- p58: Chain BGL (599 residues)
- Nup96: Chain ALH (1817 residues)
- SEH1: Chain ANE (360 residues)
- Nup155: Chain HC (1391 residues)
- SEC13: Chain BGV (322 residues)
- p58: Chain QW (599 residues)
- p58: Chain WP (599 residues)
- SEH1: Chain AMM (360 residues)
- p54: Chain AVB (507 residues)
- SEC13: Chain BJF (322 residues)
- Nup205: Chain AS (2012 residues)
- Nup160: Chain BCF (1436 residues)
- p54: Chain AUV (507 residues)
- p62: Chain AKK (522 residues)
- Nup205: Chain ZT (2012 residues)
- Nup107: Chain AKO (925 residues)
- p62: Chain BGJ (522 residues)
- p54: Chain BL (507 residues)
- Nup93: Chain ANM (819 residues)
- Nup37: Chain FI (326 residues)
- Nup133: Chain VN (1156 residues)
- Nup160: Chain AWI (1436 residues)
- SEC13: Chain GR (322 residues)
- SEC13: Chain XR (322 residues)
- p58: Chain CU (599 residues)
- SEH1: Chain RQ (360 residues)
- Nup43: Chain ATU (380 residues)
- Nup37: Chain EO (326 residues)
- SEH1: Chain NP (360 residues)

- SEC13: Chain SY (322 residues)
- Nup160: Chain ABF (1436 residues)
- p58: Chain ARP (599 residues)
- Nup160: Chain DW (1436 residues)
- SEC13: Chain VQ (322 residues)
- p54: Chain BNL (507 residues)
- SEH1: Chain BOA (360 residues)
- p54: Chain CT (507 residues)
- Nup155: Chain AZN (1391 residues)
- Nup85: Chain RR (656 residues)
- Nup155: Chain LS (1391 residues)
- p54: Chain AWT (507 residues)
- p58: Chain AIL (599 residues)
- Nup93: Chain ZS (819 residues)
- SEH1: Chain MG (360 residues)
- Nup96: Chain AQS (1817 residues)
- Nup93: Chain BMW (819 residues)
- Nup107: Chain VO (925 residues)
- Nup205: Chain LD (2012 residues)
- SEH1: Chain BDD (360 residues)
- p62: Chain CV (522 residues)
- Nup85: Chain ANF (656 residues)
- p58: Chain ALV (599 residues)
- Nup96: Chain BLX (1817 residues)
- p54: Chain ABN (507 residues)
- Nup37: Chain BDH (326 residues)
- SEC13: Chain BDC (322 residues)
- Nup205: Chain NV (2012 residues)
- Nup155: Chain BBD (1391 residues)
- p58: Chain ATE (599 residues)
- p58: Chain LP (599 residues)
- p62: Chain AVG (522 residues)
- p54: Chain APQ (507 residues)
- Nup43: Chain X (380 residues)
- Nup96: Chain ON (1817 residues)
- Nup93: Chain LF (819 residues)
- SEC13: Chain YR (322 residues)
- p62: Chain WN (522 residues)
- Nup107: Chain BJD (925 residues)
- p62: Chain CE (522 residues)
- p58: Chain AWU (599 residues)
- p58: Chain APO (599 residues)
- Nup96: Chain FW (1817 residues)
- SEC13: Chain AXZ (322 residues)
- Nup96: Chain BFL (1817 residues)
- Nup107: Chain AON (925 residues)
- Nup155: Chain AIG (1391 residues)
- p58: Chain BEB (599 residues)
- Nup43: Chain KQ (380 residues)
- Nup205: Chain BFT (2012 residues)
- Nup160: Chain BJJ (1436 residues)
- p62: Chain ATI (522 residues)
- Nup155: Chain HG (1391 residues)
- p54: Chain ATD (507 residues)
- p62: Chain BDW (522 residues)
- Nup93: Chain BKV (819 residues)
- p54: Chain EB (507 residues)
- Nup43: Chain FG (380 residues)
- Nup160: Chain BG (1436 residues)
- Nup43: Chain RJ (380 residues)
- Nup85: Chain BHP (656 residues)
- p58: Chain BQC (599 residues)
- SEC13: Chain BJX (322 residues)
- Nup205: Chain JG (2012 residues)

- Nup133: Chain YO (1156 residues)
- p54: Chain AIK (507 residues)
- Nup155: Chain GM (1391 residues)
- p58: Chain VA (599 residues)
- Nup205: Chain ET (2012 residues)
- p62: Chain MZ (522 residues)
- Nup85: Chain KP (656 residues)
- p58: Chain BLI (599 residues)
- Nup85: Chain SR (656 residues)
- Nup43: Chain ABE (380 residues)
- Nup37: Chain BAX (326 residues)
- Nup96: Chain AJM (1817 residues)
- SEH1: Chain AFV (360 residues)
- Nup93: Chain ES (819 residues)
- SEC13: Chain AXH (322 residues)
- SEC13: Chain BFM (322 residues)
- Nup155: Chain IB (1391 residues)
- Nup160: Chain AJR (1436 residues)
- SEH1: Chain AHW (360 residues)
- p58: Chain BNS (599 residues)
- p62: Chain ANU (522 residues)
- Nup155: Chain TJ (1391 residues)
- Nup133: Chain ZG (1156 residues)
- SEH1: Chain BPB (360 residues)
- Nup155: Chain KI (1391 residues)
- Nup37: Chain ZO (326 residues)
- Nup96: Chain KM (1817 residues)
- Nup93: Chain FM (819 residues)
- Nup133: Chain BCQ (1156 residues)
- Nup107: Chain BAH (925 residues)
- SEC13: Chain AVM (322 residues)
- Nup160: Chain PB (1436 residues)
- Nup93: Chain AUS (819 residues)
- SEH1: Chain BMR (360 residues)
- Nup133: Chain AOD (1156 residues)
- Nup205: Chain CR (2012 residues)
- Nup107: Chain CZ (925 residues)
- p62: Chain AKB (522 residues)
- Nup96: Chain BEK (1817 residues)
- p54: Chain FP (507 residues)
- Nup205: Chain ZQ (2012 residues)
- p54: Chain ANP (507 residues)
- Nup85: Chain BHG (656 residues)
- p54: Chain OG (507 residues)
- Nup160: Chain BKK (1436 residues)
- Nup107: Chain VF (925 residues)
- Nup155: Chain AID (1391 residues)
- Nup155: Chain ALQ (1391 residues)
- SEC13: Chain BEL (322 residues)
- Nup205: Chain AEV (2012 residues)
- Nup85: Chain BOB (656 residues)
- Nup155: Chain BJA (1391 residues)
- Nup43: Chain AUD (380 residues)
- SEC13: Chain BLY (322 residues)
- p62: Chain LK (522 residues)
- Nup85: Chain UJ (656 residues)
- Nup93: Chain GD (819 residues)
- p54: Chain UZ (507 residues)
- Nup43: Chain AEF (380 residues)
- Nup37: Chain AKV (326 residues)
- Nup107: Chain BFB (925 residues)
- Nup160: Chain BEP (1436 residues)
- Nup107: Chain AVT (925 residues)
- Nup96: Chain C (1817 residues)

- Nup85: Chain KY (656 residues)
- Nup155: Chain AJV (1391 residues)
- Nup96: Chain DA (1817 residues)
- SEH1: Chain UI (360 residues)
- Nup160: Chain ACX (1436 residues)
- SEC13: Chain ACB (322 residues)
- Nup37: Chain ANI (326 residues)
- p54: Chain BIO (507 residues)
- p58: Chain PQ (599 residues)
- Nup133: Chain AMR (1156 residues)
- SEC13: Chain AHM (322 residues)
- Nup107: Chain BDA (925 residues)
- Nup107: Chain UF (925 residues)
- p54: Chain LO (507 residues)
- p58: Chain AFB (599 residues)
- Nup93: Chain HR (819 residues)
- Nup107: Chain AFS (925 residues)
- Nup96: Chain BGU (1817 residues)
- Nup155: Chain BKR (1391 residues)
- Nup205: Chain EQ (2012 residues)
- Nup107: Chain BES (925 residues)
- p58: Chain WS (599 residues)
- p62: Chain ADN (522 residues)
- Nup37: Chain ACG (326 residues)
- p54: Chain YD (507 residues)
- SEH1: Chain OP (360 residues)
- Nup93: Chain ABH (819 residues)
- SEH1: Chain SQ (360 residues)
- SEH1: Chain AXI (360 residues)
- Nup96: Chain AZZ (1817 residues)
- Nup133: Chain UE (1156 residues)
- Nup155: Chain BO (1391 residues)
- p58: Chain ABU (599 residues)
- Nup37: Chain TD (326 residues)
- Nup205: Chain API (2012 residues)
- Nup85: Chain LY (656 residues)
- Nup160: Chain ACO (1436 residues)
- Nup37: Chain BHJ (326 residues)
- Nup133: Chain BLV (1156 residues)
- SEC13: Chain ZJ (322 residues)
- Nup205: Chain FN (2012 residues)
- Nup96: Chain VP (1817 residues)
- p62: Chain ARK (522 residues)
- Nup43: Chain AJQ (380 residues)
- Nup43: Chain BFP (380 residues)
- Nup37: Chain XN (326 residues)
- Nup96: Chain WY (1817 residues)
- Nup85: Chain AGF (656 residues)
- SEC13: Chain AQT (322 residues)
- Nup160: Chain BDG (1436 residues)
- p54: Chain AU (507 residues)
- Nup133: Chain BFA (1156 residues)
- Nup155: Chain AYW (1391 residues)
- Nup37: Chain AXM (326 residues)
- Nup96: Chain ACJ (1817 residues)
- Nup133: Chain BOX (1156 residues)
- Nup155: Chain BQF (1391 residues)
- Nup107: Chain BKE (925 residues)
- Nup205: Chain BIJ (2012 residues)
- Nup43: Chain BEX (380 residues)
- p58: Chain EW (599 residues)
- Nup93: Chain KC (819 residues)
- Nup160: Chain AXU (1436 residues)
- Nup37: Chain AVR (326 residues)

- p54: Chain ATJ (507 residues)
- Nup155: Chain WH (1391 residues)
- Nup85: Chain CM (656 residues)
- Nup205: Chain BPN (2012 residues)
- Nup155: Chain TT (1391 residues)
- p54: Chain IR (507 residues)
- Nup93: Chain BIF (819 residues)
- SEH1: Chain BD (360 residues)
- Nup37: Chain APD (326 residues)
- Nup43: Chain BMK (380 residues)
- Nup93: Chain YA (819 residues)
- Nup96: Chain AFT (1817 residues)
- Nup205: Chain ALP (2012 residues)
- Nup107: Chain RE (925 residues)
- Nup133: Chain SV (1156 residues)
- Nup85: Chain BLR (656 residues)
- Nup43: Chain BCE (380 residues)
- Nup155: Chain AEW (1391 residues)
- Nup155: Chain BGR (1391 residues)
- SEH1: Chain DC (360 residues)
- Nup93: Chain AR (819 residues)
- Nup155: Chain BIH (1391 residues)
- Nup96: Chain AQA (1817 residues)
- Nup43: Chain AHY (380 residues)
- Nup205: Chain AUT (2012 residues)
- Nup188: Chain BFW (1749 residues)
- p62: Chain ADK (522 residues)
- p62: Chain BEC (522 residues)
- p62: Chain BN (522 residues)
- Nup205: Chain HV (2012 residues)
- p54: Chain DK (507 residues)
- Nup37: Chain MB (326 residues)
- p62: Chain ATC (522 residues)
- Nup155: Chain BKX (1391 residues)
- Nup43: Chain VT (380 residues)
- Nup133: Chain ART (1156 residues)
- p58: Chain AGW (599 residues)
- Nup43: Chain BAM (380 residues)
- Nup155: Chain KE (1391 residues)
- Nup155: Chain FT (1391 residues)
- Nup107: Chain YP (925 residues)
- Nup107: Chain AQL (925 residues)
- p58: Chain BDV (599 residues)
- Nup160: Chain ASJ (1436 residues)
- p54: Chain QV (507 residues)
- SEH1: Chain BGW (360 residues)
- Nup43: Chain AGG (380 residues)
- Nup160: Chain BOV (1436 residues)
- p54: Chain ARF (507 residues)
- Nup133: Chain AZ (1156 residues)
- Nup96: Chain BOH (1817 residues)
- Nup85: Chain BDE (656 residues)
- Nup107: Chain WX (925 residues)
- Nup133: Chain AHJ (1156 residues)
- p54: Chain ARL (507 residues)
- p62: Chain RA (522 residues)
- p58: Chain ARG (599 residues)
- Nup85: Chain BPC (656 residues)
- Nup160: Chain AKU (1436 residues)
- Nup85: Chain MH (656 residues)
- p62: Chain ATL (522 residues)
- Nup155: Chain WV (1391 residues)
- SEC13: Chain EJ (322 residues)
- Nup155: Chain YC (1391 residues)

- p62: Chain OI (522 residues)
- SEC13: Chain BAS (322 residues)
- Nup96: Chain BHV (1817 residues)
- Nup133: Chain BMN (1156 residues)
- p62: Chain BBM (522 residues)
- Nup205: Chain IM (2012 residues)
- p58: Chain BBL (599 residues)
- p54: Chain AWQ (507 residues)
- p62: Chain AUX (522 residues)
- Nup155: Chain ABM (1391 residues)
- SEH1: Chain AIW (360 residues)
- Nup160: Chain AP (1436 residues)
- Nup43: Chain WC (380 residues)
- Nup93: Chain BNF (819 residues)
- SEC13: Chain BCB (322 residues)
- Nup155: Chain AH (1391 residues)
- Nup93: Chain BDI (819 residues)
- Nup93: Chain ACZ (819 residues)
- p58: Chain BGF (599 residues)
- p58: Chain BBR (599 residues)
- p62: Chain BLD (522 residues)
- Nup133: Chain KT (1156 residues)
- Nup107: Chain AEJ (925 residues)
- SEC13: Chain AJN (322 residues)
- SEH1: Chain AZS (360 residues)
- Nup96: Chain BOQ (1817 residues)
- SEC13: Chain RG (322 residues)
- Nup85: Chain ACV (656 residues)
- SEC13: Chain OO (322 residues)
- p62: Chain ARN (522 residues)
- Nup96: Chain LV (1817 residues)
- Nup160: Chain LA (1436 residues)
- Nup133: Chain BME (1156 residues)
- SEC13: Chain PX (322 residues)
- Nup93: Chain BII (819 residues)
- Nup155: Chain VC (1391 residues)
- p54: Chain BQB (507 residues)
- Nup43: Chain OR (380 residues)
- Nup155: Chain GI (1391 residues)
- Nup37: Chain AIA (326 residues)
- Nup85: Chain W (656 residues)
- Nup160: Chain BHI (1436 residues)
- Nup155: Chain EE (1391 residues)
- p62: Chain HF (522 residues)
- Nup133: Chain ANA (1156 residues)
- Nup85: Chain BCV (656 residues)
- SEC13: Chain BT (322 residues)
- Nup93: Chain GG (819 residues)
- p58: Chain BBU (599 residues)
- Nup107: Chain AHK (925 residues)
- Nup205: Chain BDJ (2012 residues)
- Nup96: Chain VY (1817 residues)
- Nup133: Chain BOF (1156 residues)
- Nup205: Chain AGN (2012 residues)
- SEC13: Chain DS (322 residues)
- Nup160: Chain VL (1436 residues)
- Nup133: Chain ADZ (1156 residues)
- Nup93: Chain ZP (819 residues)
- p54: Chain AFD (507 residues)
- Nup160: Chain AOT (1436 residues)
- Nup43: Chain BJR (380 residues)
- Nup43: Chain DE (380 residues)
- Nup93: Chain DY (819 residues)
- p54: Chain BBK (507 residues)

- Nup205: Chain AUQ (2012 residues)
- Nup205: Chain BMX (2012 residues)
- Nup155: Chain GZ (1391 residues)
- Nup107: Chain AKX (925 residues)
- Nup133: Chain AJB (1156 residues)
- Nup85: Chain BMA (656 residues)
- SEH1: Chain NG (360 residues)
- Nup155: Chain ARR (1391 residues)
- Nup43: Chain BKA (380 residues)
- Nup160: Chain CO (1436 residues)
- SEH1: Chain PY (360 residues)
- SEC13: Chain AEL (322 residues)
- Nup43: Chain AXK (380 residues)
- SEH1: Chain ALJ (360 residues)
- Nup205: Chain AYP (2012 residues)
- Nup155: Chain BIE (1391 residues)
- Nup107: Chain LU (925 residues)
- Nup85: Chain AXS (656 residues)
- SEC13: Chain BMQ (322 residues)
- SEC13: Chain AQB (322 residues)
- SEC13: Chain BHE (322 residues)
- Nup107: Chain KU (925 residues)
- Nup160: Chain ASA (1436 residues)
- Nup155: Chain ABJ (1391 residues)
- p62: Chain BQA (522 residues)
- SEH1: Chain AWF (360 residues)
- p62: Chain BPX (522 residues)
- Nup160: Chain IJ (1436 residues)
- SEC13: Chain AL (322 residues)
- p62: Chain AVA (522 residues)
- Nup205: Chain ABI (2012 residues)
- Nup160: Chain AYM (1436 residues)
- SEH1: Chain IG (360 residues)
- Nup93: Chain BNC (819 residues)
- SEH1: Chain ABC (360 residues)
- Nup43: Chain AQW (380 residues)
- Nup93: Chain ALR (819 residues)
- Nup96: Chain AKY (1817 residues)
- Nup37: Chain BHS (326 residues)
- Nup160: Chain BX (1436 residues)
- p54: Chain TK (507 residues)
- p58: Chain ANW (599 residues)
- SEC13: Chain ABB (322 residues)
- Nup43: Chain BF (380 residues)
- Nup155: Chain APG (1391 residues)
- Nup155: Chain BEH (1391 residues)
- Nup133: Chain AAG (1156 residues)
- p62: Chain ANR (522 residues)
- p54: Chain ARI (507 residues)
- p54: Chain BNR (507 residues)
- Nup205: Chain BPH (2012 residues)
- SEH1: Chain DT (360 residues)
- Nup85: Chain AQD (656 residues)
- Nup96: Chain AXY (1817 residues)
- SEH1: Chain AM (360 residues)
- SEH1: Chain BLZ (360 residues)
- SEH1: Chain BOS (360 residues)
- Nup155: Chain AAE (1391 residues)
- Nup155: Chain OJ (1391 residues)
- Nup133: Chain AQQ (1156 residues)
- Nup43: Chain UB (380 residues)
- Nup188: Chain BPQ (1749 residues)
- Nup133: Chain PU (1156 residues)
- Nup155: Chain FS (1391 residues)

- SEC13: Chain AUA (322 residues)
- Nup37: Chain BJK (326 residues)
- Nup155: Chain ADE (1391 residues)
- Nup37: Chain ATW (326 residues)
- Nup160: Chain BIA (1436 residues)
- Nup107: Chain SW (925 residues)
- p58: Chain BIS (599 residues)
- p58: Chain YK (599 residues)
- p62: Chain AWY (522 residues)
- Nup160: Chain AMY (1436 residues)
- Nup93: Chain FJ (819 residues)
- Nup37: Chain MK (326 residues)
- Nup160: Chain Y (1436 residues)
- p54: Chain BBT (507 residues)
- Nup96: Chain BS (1817 residues)
- Nup160: Chain ATV (1436 residues)
- SEH1: Chain EK (360 residues)
- Nup85: Chain TA (656 residues)
- Nup43: Chain BHZ (380 residues)
- p62: Chain BBV (522 residues)
- Nup43: Chain BMB (380 residues)
- Nup155: Chain KJ (1391 residues)
- SEH1: Chain RH (360 residues)
- Nup133: Chain BFJ (1156 residues)
- Nup160: Chain ACF (1436 residues)
- Nup155: Chain AXC (1391 residues)
- SEC13: Chain BEU (322 residues)
- Nup93: Chain BZ (819 residues)
- Nup37: Chain AJJ (326 residues)
- Nup155: Chain QR (1391 residues)
- Nup155: Chain KB (1391 residues)
- SEH1: Chain WA (360 residues)
- Nup155: Chain AKL (1391 residues)
- Nup85: Chain HN (656 residues)
- Nup160: Chain BMC (1436 residues)
- p62: Chain BIQ (522 residues)
- Nup160: Chain AHQ (1436 residues)
- Nup43: Chain GU (380 residues)
- Nup107: Chain BMF (925 residues)
- Nup188: Chain BBC (1749 residues)
- Nup160: Chain NJ (1436 residues)
- p62: Chain GL (522 residues)
- Nup96: Chain AK (1817 residues)
- Nup43: Chain AZU (380 residues)
- p62: Chain TM (522 residues)
- p54: Chain KF (507 residues)
- Nup43: Chain XC (380 residues)
- Nup37: Chain AXV (326 residues)
- Nup96: Chain BJN (1817 residues)
- SEC13: Chain AML (322 residues)
- Nup85: Chain BHY (656 residues)
- Nup37: Chain RL (326 residues)
- p54: Chain BIX (507 residues)
- Nup133: Chain AWB (1156 residues)
- Nup37: Chain XE (326 residues)
- p62: Chain ARH (522 residues)
- Nup93: Chain CQ (819 residues)
- p62: Chain AIJ (522 residues)
- Nup160: Chain ANH (1436 residues)
- Nup160: Chain AYD (1436 residues)
- Nup155: Chain APJ (1391 residues)
- Nup37: Chain BAO (326 residues)
- p62: Chain AWV (522 residues)
- Nup160: Chain MJ (1436 residues)

- Nup85: Chain OQ (656 residues)
- Nup155: Chain JO (1391 residues)
- Nup133: Chain NL (1156 residues)
- Nup133: Chain BJL (1156 residues)
- p62: Chain BGP (522 residues)
- SEH1: Chain GS (360 residues)
- Nup188: Chain BDM (1749 residues)
- Nup155: Chain EU (1391 residues)
- Nup205: Chain AB (2012 residues)
- Nup160: Chain AEP (1436 residues)
- Nup37: Chain BCG (326 residues)
- Nup85: Chain JB (656 residues)
- p58: Chain BPT (599 residues)
- Nup43: Chain AAV (380 residues)
- Nup93: Chain BDR (819 residues)
- p58: Chain AGQ (599 residues)
- p62: Chain ABV (522 residues)
- Nup133: Chain CY (1156 residues)
- p62: Chain BQD (522 residues)
- Nup155: Chain ARE (1391 residues)
- Nup43: Chain DV (380 residues)
- Nup93: Chain ADC (819 residues)
- Nup37: Chain Z (326 residues)
- Nup96: Chain AAI (1817 residues)
- p62: Chain BLA (522 residues)
- Nup155: Chain CB (1391 residues)
- Nup205: Chain LG (2012 residues)
- Nup155: Chain ASW (1391 residues)
- Nup133: Chain BHK (1156 residues)
- Nup160: Chain AFY (1436 residues)
- Nup93: Chain AER (819 residues)
- Nup155: Chain TU (1391 residues)
- p58: Chain ATK (599 residues)
- Nup160: Chain GB (1436 residues)
- Nup160: Chain ALD (1436 residues)
- Nup96: Chain AIU (1817 residues)
- Nup107: Chain XP (925 residues)
- Nup93: Chain AUP (819 residues)
- Nup107: Chain BA (925 residues)
- p58: Chain ANQ (599 residues)
- Nup37: Chain BHA (326 residues)
- Nup205: Chain BND (2012 residues)
- Nup133: Chain AZO (1156 residues)
- SEH1: Chain AJO (360 residues)
- Nup160: Chain BJS (1436 residues)
- Nup107: Chain AHT (925 residues)
- p62: Chain OC (522 residues)
- p54: Chain AZG (507 residues)
- Nup155: Chain ANL (1391 residues)
- Nup155: Chain YN (1391 residues)
- Nup85: Chain ATT (656 residues)
- SEH1: Chain ZB (360 residues)
- Nup43: Chain AUM (380 residues)
- SEC13: Chain ASO (322 residues)
- Nup133: Chain BLM (1156 residues)
- Nup133: Chain BAP (1156 residues)
- Nup155: Chain MN (1391 residues)
- Nup205: Chain BKN (2012 residues)
- Nup155: Chain EZ (1391 residues)
- Nup37: Chain IK (326 residues)
- Nup160: Chain QK (1436 residues)
- p54: Chain BIU (507 residues)
- Nup85: Chain AOI (656 residues)
- SEH1: Chain V (360 residues)

- Nup96: Chain ACS (1817 residues)
- p62: Chain BGM (522 residues)
- p58: Chain ANZ (599 residues)
- p62: Chain BPU (522 residues)
- Nup107: Chain AOW (925 residues)
- Nup155: Chain BKU (1391 residues)
- SEH1: Chain CL (360 residues)
- SEC13: Chain AND (322 residues)
- Nup133: Chain AYF (1156 residues)
- Nup37: Chain AQG (326 residues)
- Nup43: Chain II (380 residues)
- SEH1: Chain AUB (360 residues)
- Nup37: Chain LB (326 residues)
- p62: Chain AF (522 residues)
- Nup155: Chain JH (1391 residues)
- Nup107: Chain BGT (925 residues)
- SEC13: Chain WZ (322 residues)
- SEH1: Chain YS (360 residues)
- Nup93: Chain AYU (819 residues)
- p58: Chain TL (599 residues)
- Nup205: Chain BJ (2012 residues)
- Nup93: Chain JZ (819 residues)
- Nup107: Chain EH (925 residues)
- Nup155: Chain TG (1391 residues)
- Nup188: Chain BPK (1749 residues)
- Nup43: Chain VK (380 residues)
- Nup155: Chain BEG (1391 residues)
- Nup107: Chain ARU (925 residues)
- Nup37: Chain BMM (326 residues)
- Nup133: Chain ASL (1156 residues)
- Nup96: Chain HK (1817 residues)
- SEH1: Chain BCU (360 residues)
- Nup85: Chain APA (656 residues)
- p58: Chain BIY (599 residues)
- Nup96: Chain NE (1817 residues)
- Nup93: Chain BBB (819 residues)
- Nup107: Chain AUH (925 residues)
- Nup96: Chain AFK (1817 residues)
- Nup133: Chain AAP (1156 residues)
- Nup155: Chain AKM (1391 residues)
- Nup107: Chain BHU (925 residues)
- p54: Chain SH (507 residues)
- SEH1: Chain ARX (360 residues)
- Nup205: Chain ADA (2012 residues)
- Nup85: Chain WB (656 residues)
- p58: Chain LJ (599 residues)
- Nup85: Chain BAL (656 residues)
- Nup107: Chain BAQ (925 residues)
- Nup93: Chain IL (819 residues)
- Nup205: Chain PE (2012 residues)
- Nup43: Chain BOL (380 residues)
- Nup160: Chain AHZ (1436 residues)
- Nup155: Chain AX (1391 residues)
- p54: Chain LI (507 residues)
- p62: Chain APM (522 residues)
- Nup133: Chain AMI (1156 residues)
- Nup107: Chain AAQ (925 residues)
- Nup160: Chain JX (1436 residues)
- Nup85: Chain BEW (656 residues)
- Nup37: Chain WE (326 residues)
- SEH1: Chain AFM (360 residues)
- Nup96: Chain ASN (1817 residues)
- Nup85: Chain AZT (656 residues)
- SEH1: Chain BEM (360 residues)

- Nup37: Chain AAO (326 residues)
- p62: Chain ANX (522 residues)
- p54: Chain AKI (507 residues)
- Nup205: Chain YB (2012 residues)
- Nup155: Chain MQ (1391 residues)
- Nup85: Chain AHF (656 residues)
- Nup96: Chain BMP (1817 residues)
- Nup155: Chain ASZ (1391 residues)
- SEH1: Chain BHX (360 residues)
- p58: Chain AVF (599 residues)
- Nup155: Chain DJ (1391 residues)
- Nup160: Chain BGZ (1436 residues)
- p54: Chain PP (507 residues)
- Nup107: Chain AMS (925 residues)
- Nup133: Chain RD (1156 residues)
- Nup205: Chain XY (2012 residues)
- Nup133: Chain ACH (1156 residues)
- Nup93: Chain ASX (819 residues)
- SEH1: Chain ACL (360 residues)
- Nup96: Chain YZ (1817 residues)
- Nup160: Chain AOK (1436 residues)
- Nup85: Chain ACD (656 residues)
- Nup93: Chain AEU (819 residues)
- p54: Chain TN (507 residues)
- Nup43: Chain MI (380 residues)
- Nup160: Chain BKB (1436 residues)
- Nup133: Chain DP (1156 residues)
- p54: Chain PM (507 residues)
- Nup37: Chain AFQ (326 residues)
- Nup133: Chain BCZ (1156 residues)
- Nup155: Chain CW (1391 residues)
- p62: Chain BIW (522 residues)
- Nup43: Chain ACN (380 residues)
- Nup96: Chain UG (1817 residues)
- p62: Chain AWS (522 residues)
- SEH1: Chain AHN (360 residues)
- Nup107: Chain GP (925 residues)
- Nup96: Chain AOX (1817 residues)
- Nup155: Chain AXD (1391 residues)
- SEC13: Chain AXQ (322 residues)
- p62: Chain PL (522 residues)
- Nup37: Chain AMQ (326 residues)
- Nup160: Chain OS (1436 residues)
- p62: Chain PR (522 residues)
- SEC13: Chain BAA (322 residues)
- Nup93: Chain WF (819 residues)
- Nup96: Chain ANC (1817 residues)
- Nup160: Chain AQX (1436 residues)
- Nup85: Chain NH (656 residues)
- p62: Chain BIZ (522 residues)
- SEC13: Chain FD (322 residues)
- Nup37: Chain RU (326 residues)
- Nup160: Chain HP (1436 residues)
- Nup93: Chain BIL (819 residues)
- Nup43: Chain LZ (380 residues)
- SEC13: Chain KN (322 residues)
- p58: Chain AZH (599 residues)
- Nup37: Chain AHR (326 residues)
- SEH1: Chain JU (360 residues)
- Nup37: Chain AJA (326 residues)
- Nup96: Chain AMK (1817 residues)
- Nup160: Chain AXL (1436 residues)
- Nup93: Chain UQ (819 residues)
- p58: Chain AKG (599 residues)

[Entry composition](#)

- p58: Chain WM (599 residues)
- Nup96: Chain AMT (1817 residues)
- Nup155: Chain WK (1391 residues)
- SEH1: Chain FE (360 residues)
- p54: Chain MR (507 residues)
- Nup155: Chain AGO (1391 residues)
- Nup37: Chain ADY (326 residues)
- Nup43: Chain AMX (380 residues)
- Nup43: Chain BJI (380 residues)
- SEH1: Chain TZ (360 residues)
- Nup133: Chain AVS (1156 residues)
- Nup188: Chain BNA (1749 residues)
- SEH1: Chain KX (360 residues)
- Nup96: Chain BMG (1817 residues)
- Nup155: Chain HH (1391 residues)
- Nup160: Chain FH (1436 residues)
- Nup160: Chain UC (1436 residues)
- Nup85: Chain ZC (656 residues)
- p54: Chain BED (507 residues)
- Nup155: Chain SA (1391 residues)
- Nup85: Chain EL (656 residues)
- Nup96: Chain BJE (1817 residues)
- Nup205: Chain AIF (2012 residues)
- SEH1: Chain XS (360 residues)
- Nup155: Chain ADP (1391 residues)
- SEH1: Chain FY (360 residues)
- p58: Chain BGO (599 residues)
- SEC13: Chain AOY (322 residues)
- Nup37: Chain GC (326 residues)
- Nup85: Chain UA (656 residues)
- p54: Chain QY (507 residues)
- Nup205: Chain AJU (2012 residues)
- Nup107: Chain RN (925 residues)
- SEH1: Chain AVN (360 residues)
- Nup188: Chain BBI (1749 residues)
- Nup85: Chain AUC (656 residues)
- p58: Chain BLC (599 residues)
- Nup96: Chain VG (1817 residues)
- Nup93: Chain RY (819 residues)
- SEC13: Chain ADT (322 residues)
- Nup85: Chain AJP (656 residues)
- Nup155: Chain AIQ (1391 residues)
- Nup85: Chain AMW (656 residues)
- SEH1: Chain BJP (360 residues)
- Nup85: Chain AIX (656 residues)
- Nup43: Chain CN (380 residues)
- Nup43: Chain AJH (380 residues)
- p54: Chain BPS (507 residues)
- Nup96: Chain QF (1817 residues)
- Nup93: Chain BKM (819 residues)
- SEC13: Chain ALI (322 residues)
- Nup37: Chain BEZ (326 residues)
- p54: Chain BDX (507 residues)
- p54: Chain OA (507 residues)
- p62: Chain ADH (522 residues)
- p54: Chain AZA (507 residues)
- Nup133: Chain AUG (1156 residues)
- SEH1: Chain AXR (360 residues)
- Nup160: Chain ADX (1436 residues)
- p58: Chain SC (599 residues)
- Nup155: Chain BK (1391 residues)
- Nup85: Chain GT (656 residues)
- Nup155: Chain ABX (1391 residues)
- p62: Chain ABP (522 residues)

- p54: Chain AKC (507 residues)
- p58: Chain QZ (599 residues)
- Nup133: Chain BQ (1156 residues)
- Nup85: Chain F (656 residues)
- Nup155: Chain AET (1391 residues)
- Nup96: Chain AOO (1817 residues)
- SEC13: Chain BAJ (322 residues)
- Nup160: Chain XM (1436 residues)
- Nup85: Chain BMS (656 residues)
- Nup155: Chain SK (1391 residues)
- Nup155: Chain AGL (1391 residues)
- p54: Chain ANV (507 residues)
- Nup85: Chain AAU (656 residues)
- Nup37: Chain BEQ (326 residues)
- Nup93: Chain ALO (819 residues)
- SEC13: Chain U (322 residues)
- Nup155: Chain NZ (1391 residues)
- Nup160: Chain AQO (1436 residues)
- p62: Chain SJ (522 residues)
- p58: Chain HY (599 residues)
- Nup43: Chain BFG (380 residues)
- p62: Chain AIM (522 residues)
- Nup85: Chain AAL (656 residues)
- p62: Chain BBS (522 residues)
- Nup43: Chain NI (380 residues)
- Nup155: Chain BBA (1391 residues)
- p62: Chain OF (522 residues)
- p58: Chain BPW (599 residues)
- Nup37: Chain AOL (326 residues)
- Nup155: Chain XZ (1391 residues)
- Nup133: Chain EG (1156 residues)
- Nup133: Chain ADQ (1156 residues)
- Nup160: Chain JD (1436 residues)
- Nup37: Chain AQP (326 residues)
- p62: Chain SG (522 residues)
- Nup160: Chain AAW (1436 residues)
- p62: Chain WQ (522 residues)
- Nup43: Chain XU (380 residues)
- Nup43: Chain BLS (380 residues)
- Nup107: Chain AMJ (925 residues)
- p62: Chain SD (522 residues)
- SEC13: Chain MF (322 residues)
- SEC13: Chain AIV (322 residues)
- p62: Chain IT (522 residues)
- Nup107: Chain BOG (925 residues)
- SEC13: Chain AFL (322 residues)
- Nup155: Chain AZM (1391 residues)
- SEH1: Chain AAT (360 residues)
- Nup107: Chain DQ (925 residues)
- Nup160: Chain GV (1436 residues)
- Nup107: Chain BEJ (925 residues)
- p58: Chain AIO (599 residues)
- SEC13: Chain ACT (322 residues)
- p58: Chain ADG (599 residues)
- Nup160: Chain ZE (1436 residues)
- Nup93: Chain JF (819 residues)
- Nup155: Chain LR (1391 residues)
- p62: Chain BNN (522 residues)
- Nup93: Chain WI (819 residues)
- Nup133: Chain NC (1156 residues)
- Nup155: Chain BLL (1391 residues)
- Nup160: Chain AZV (1436 residues)
- Nup96: Chain TX (1817 residues)
- p54: Chain AWZ (507 residues)

- Nup107: Chain APZ (925 residues)
- p58: Chain ABO (599 residues)
- Nup155: Chain SL (1391 residues)
- Nup155: Chain AC (1391 residues)
- SEC13: Chain AQK (322 residues)
- Nup107: Chain KL (925 residues)
- Nup155: Chain P (1391 residues)
- Nup37: Chain UD (326 residues)
- Nup107: Chain OM (925 residues)
- p54: Chain LL (507 residues)
- Nup155: Chain BNH (1391 residues)
- Nup96: Chain BOZ (1817 residues)
- Nup37: Chain BY (326 residues)
- Nup205: Chain K (2012 residues)
- Nup155: Chain BGQ (1391 residues)
- Nup96: Chain AVU (1817 residues)
- p58: Chain YE (599 residues)
- p58: Chain ATH (599 residues)
- Nup155: Chain AOB (1391 residues)
- Nup205: Chain AWL (2012 residues)
- SEH1: Chain AYJ (360 residues)
- SEC13: Chain AHV (322 residues)
- Nup96: Chain BHM (1817 residues)
- p58: Chain ANT (599 residues)
- Nup96: Chain IE (1817 residues)
- Nup96: Chain BKF (1817 residues)
- Nup85: Chain FZ (656 residues)
- p58: Chain BKZ (599 residues)
- Nup43: Chain BHQ (380 residues)
- p62: Chain ATF (522 residues)
- Nup96: Chain FC (1817 residues)
- SEH1: Chain BMI (360 residues)
- Nup37: Chain ALN (326 residues)
- Nup37: Chain AFZ (326 residues)
- Nup85: Chain ZL (656 residues)
- p58: Chain BPZ (599 residues)
- Nup37: Chain BAF (326 residues)
- SEC13: Chain BC (322 residues)
- Nup155: Chain JP (1391 residues)
- p62: Chain VB (522 residues)
- Nup43: Chain ALC (380 residues)
- Nup93: Chain BFS (819 residues)
- Nup188: Chain BIM (1749 residues)
- Nup155: Chain BLK (1391 residues)
- Nup85: Chain AWG (656 residues)
- p58: Chain GK (599 residues)
- SEC13: Chain RP (322 residues)
- Nup133: Chain MC (1156 residues)
- Nup93: Chain GX (819 residues)
- p54: Chain BIR (507 residues)
- Nup107: Chain B (925 residues)
- Nup205: Chain ARA (2012 residues)
- Nup43: Chain AEO (380 residues)
- SEC13: Chain BHW (322 residues)
- Nup85: Chain BKI (656 residues)
- Nup205: Chain AWO (2012 residues)
- Nup133: Chain R (1156 residues)
- Nup37: Chain QL (326 residues)
- Nup37: Chain NK (326 residues)
- Nup85: Chain BJH (656 residues)
- Nup43: Chain NR (380 residues)
- Nup107: Chain JR (925 residues)
- Nup160: Chain RK (1436 residues)
- Nup43: Chain AXT (380 residues)

- Nup133: Chain AFI (1156 residues)
- Nup96: Chain ACA (1817 residues)
- Nup96: Chain BHD (1817 residues)
- Nup93: Chain QP (819 residues)
- Nup107: Chain BR (925 residues)
- SEH1: Chain BKH (360 residues)
- Nup93: Chain BAY (819 residues)
- Nup43: Chain ANG (380 residues)
- SEH1: Chain QH (360 residues)
- p54: Chain AEX (507 residues)
- p58: Chain ARJ (599 residues)
- Nup155: Chain L (1391 residues)
- p62: Chain AFF (522 residues)
- SEC13: Chain AKQ (322 residues)
- Nup37: Chain ASB (326 residues)
- p54: Chain ATG (507 residues)
- Nup188: Chain AYS (1749 residues)
- Nup155: Chain IV (1391 residues)
- p62: Chain AIP (522 residues)
- Nup43: Chain ZM (380 residues)
- Nup96: Chain AYH (1817 residues)
- p54: Chain TQ (507 residues)
- SEH1: Chain BAK (360 residues)
- Nup205: Chain QQ (2012 residues)
- Nup43: Chain ALL (380 residues)
- Nup85: Chain JV (656 residues)
- Nup107: Chain AVK (925 residues)
- SEC13: Chain IF (322 residues)
- Nup96: Chain AVL (1817 residues)
- Nup43: Chain G (380 residues)
- Nup133: Chain CH (1156 residues)
- p58: Chain AFE (599 residues)
- Nup107: Chain ND (925 residues)
- SEC13: Chain AMU (322 residues)
- Nup96: Chain AXP (1817 residues)
- SEH1: Chain BJY (360 residues)
- p62: Chain TP (522 residues)
- Nup155: Chain IN (1391 residues)
- SEC13: Chain AWE (322 residues)
- p62: Chain BLG (522 residues)
- SEC13: Chain NF (322 residues)
- p54: Chain AGP (507 residues)
- Nup133: Chain A (1156 residues)
- Nup37: Chain BMV (326 residues)
- Nup43: Chain HO (380 residues)
- Nup155: Chain OK (1391 residues)
- Nup96: Chain XH (1817 residues)
- Nup96: Chain YQ (1817 residues)
- p54: Chain APN (507 residues)
- Nup133: Chain AHS (1156 residues)
- p62: Chain AOA (522 residues)
- SEC13: Chain AZR (322 residues)
- Nup133: Chain FA (1156 residues)
- p54: Chain M (507 residues)
- Nup37: Chain AHI (326 residues)
- Nup96: Chain BLO (1817 residues)
- Nup85: Chain AUL (656 residues)
- SEH1: Chain AOQ (360 residues)
- p54: Chain EV (507 residues)
- Nup205: Chain AES (2012 residues)
- p62: Chain UV (522 residues)
- Nup93: Chain LC (819 residues)
- p54: Chain BGE (507 residues)
- SEC13: Chain AAJ (322 residues)

- SEH1: Chain KO (360 residues)
- Nup107: Chain ATP (925 residues)
- Nup155: Chain LE (1391 residues)
- Nup133: Chain HI (1156 residues)
- Nup107: Chain AYG (925 residues)
- p54: Chain AIH (507 residues)
- Nup160: Chain BFQ (1436 residues)
- Nup37: Chain UM (326 residues)
- p54: Chain BPV (507 residues)
- SEH1: Chain JA (360 residues)
- Nup43: Chain ASR (380 residues)
- Nup96: Chain OW (1817 residues)
- p54: Chain PJ (507 residues)
- Nup107: Chain BHL (925 residues)
- Nup205: Chain IP (2012 residues)
- Nup160: Chain KR (1436 residues)
- Nup85: Chain QI (656 residues)
- SEC13: Chain VZ (322 residues)
- SEC13: Chain BOR (322 residues)
- SEH1: Chain ASP (360 residues)
- p58: Chain BIP (599 residues)
- p54: Chain AJZ (507 residues)
- Nup205: Chain BID (2012 residues)
- Nup155: Chain BMY (1391 residues)
- Nup85: Chain BEN (656 residues)
- Nup205: Chain NY (2012 residues)
- Nup107: Chain AFJ (925 residues)
- Nup205: Chain PH (2012 residues)
- Nup205: Chain ABL (2012 residues)
- Nup133: Chain ALF (1156 residues)
- Nup93: Chain MO (819 residues)
- Nup155: Chain IQ (1391 residues)
- p62: Chain KH (522 residues)
- p62: Chain O (522 residues)
- SEC13: Chain KW (322 residues)
- Nup107: Chain AWC (925 residues)
- Nup155: Chain CX (1391 residues)
- Nup155: Chain NW (1391 residues)
- Nup155: Chain BGD (1391 residues)
- Nup37: Chain AZW (326 residues)
- Nup43: Chain PA (380 residues)
- p62: Chain WT (522 residues)
- Nup85: Chain AYB (656 residues)
- Nup96: Chain AGC (1817 residues)
- Nup37: Chain I (326 residues)
- Nup133: Chain AJK (1156 residues)
- p62: Chain AZF (522 residues)
- p54: Chain BLH (507 residues)
- p54: Chain ANS (507 residues)
- Nup93: Chain TH (819 residues)
- Nup133: Chain AKW (1156 residues)
- Nup133: Chain BJU (1156 residues)
- p58: Chain AZK (599 residues)
- Nup85: Chain AXJ (656 residues)
- Nup155: Chain CS (1391 residues)
- Nup43: Chain BCN (380 residues)
- Nup85: Chain BV (656 residues)
- SEC13: Chain BJO (322 residues)
- SEC13: Chain AFU (322 residues)
- Nup133: Chain FU (1156 residues)
- Nup43: Chain APB (380 residues)
- Nup205: Chain ASV (2012 residues)
- p62: Chain BEF (522 residues)
- Nup43: Chain BGY (380 residues)

- Nup155: Chain EA (1391 residues)
- p58: Chain APU (599 residues)
- Nup133: Chain BHT (1156 residues)
- SEC13: Chain ZA (322 residues)
- Nup155: Chain NA (1391 residues)
- Nup93: Chain XX (819 residues)
- Nup85: Chain AQM (656 residues)
- Nup133: Chain JQ (1156 residues)
- Nup96: Chain ATZ (1817 residues)
- Nup107: Chain NM (925 residues)
- p54: Chain BNI (507 residues)
- Nup96: Chain ATQ (1817 residues)
- Nup155: Chain BKO (1391 residues)
- Nup133: Chain IC (1156 residues)
- Nup155: Chain IU (1391 residues)
- Nup155: Chain ADO (1391 residues)
- Nup205: Chain ASY (2012 residues)
- SEC13: Chain AUJ (322 residues)
- p62: Chain PO (522 residues)
- Nup155: Chain ANO (1391 residues)
- SEH1: Chain BCL (360 residues)
- p54: Chain ATA (507 residues)
- Nup155: Chain ER (1391 residues)
- Nup133: Chain QD (1156 residues)
- p54: Chain AUJ (507 residues)
- Nup107: Chain BOY (925 residues)
- Nup133: Chain AHA (1156 residues)
- SEC13: Chain AJE (322 residues)
- SEC13: Chain NO (322 residues)
- p58: Chain AE (599 residues)
- SEC13: Chain AAS (322 residues)
- Nup93: Chain IO (819 residues)
- SEC13: Chain BKG (322 residues)
- Nup93: Chain AGJ (819 residues)
- Nup155: Chain AVH (1391 residues)
- Nup37: Chain BIB (326 residues)
- Nup133: Chain XO (1156 residues)
- Nup160: Chain AEG (1436 residues)
- p62: Chain AKE (522 residues)
- p54: Chain SE (507 residues)
- Nup160: Chain BAW (1436 residues)
- Nup37: Chain AWA (326 residues)
- Nup85: Chain AHO (656 residues)
- Nup93: Chain NX (819 residues)
- Nup133: Chain ATO (1156 residues)
- Nup85: Chain AQV (656 residues)
- Nup205: Chain RZ (2012 residues)
- p58: Chain AZB (599 residues)
- Nup205: Chain GE (2012 residues)
- Nup160: Chain YV (1436 residues)
- Nup43: Chain EM (380 residues)
- Nup37: Chain GW (326 residues)
- Nup155: Chain FO (1391 residues)
- Nup93: Chain ARC (819 residues)
- p54: Chain BBN (507 residues)
- p58: Chain BGI (599 residues)
- Nup160: Chain BOD (1436 residues)
- Nup205: Chain AGK (2012 residues)
- Nup96: Chain GQ (1817 residues)
- p54: Chain ALX (507 residues)
- p62: Chain BIT (522 residues)
- p62: Chain AAA (522 residues)
- p54: Chain YG (507 residues)
- Nup96: Chain ASE (1817 residues)

- Nup93: Chain HU (819 residues)
- SEC13: Chain SP (322 residues)
- Nup205: Chain KD (2012 residues)
- Nup155: Chain RC (1391 residues)
- Nup133: Chain ATX (1156 residues)
- p58: Chain ARM (599 residues)
- Nup93: Chain AIE (819 residues)
- Nup155: Chain BBX (1391 residues)
- Nup37: Chain AUF (326 residues)
- p58: Chain AVC (599 residues)
- p62: Chain EX (522 residues)
- Nup205: Chain MP (2012 residues)
- Nup133: Chain AKN (1156 residues)
- Nup85: Chain NQ (656 residues)
- Nup107: Chain MD (925 residues)
- Nup133: Chain AAY (1156 residues)
- Nup160: Chain AIZ (1436 residues)
- Nup43: Chain AOJ (380 residues)
- Nup96: Chain BJW (1817 residues)
- Nup85: Chain AEE (656 residues)
- Nup96: Chain KV (1817 residues)
- Nup43: Chain RS (380 residues)
- Nup155: Chain BFX (1391 residues)
- SEH1: Chain BEV (360 residues)
- Nup107: Chain BLW (925 residues)
- Nup133: Chain AXN (1156 residues)
- Nup188: Chain BKQ (1749 residues)
- p54: Chain ABQ (507 residues)
- SEC13: Chain ASF (322 residues)
- p54: Chain AZD (507 residues)
- SEH1: Chain ASG (360 residues)
- Nup93: Chain BKS (819 residues)
- Nup155: Chain AWP (1391 residues)
- Nup205: Chain DZ (2012 residues)
- Nup133: Chain ACQ (1156 residues)
- Nup107: Chain AXO (925 residues)
- Nup37: Chain OT (326 residues)
- Nup43: Chain AHP (380 residues)
- Nup43: Chain AOS (380 residues)
- Nup155: Chain ARB (1391 residues)
- p62: Chain AKH (522 residues)
- Nup93: Chain APH (819 residues)
- SEH1: Chain VI (360 residues)
- Nup160: Chain AVQ (1436 residues)
- Nup155: Chain BPR (1391 residues)
- p62: Chain ALZ (522 residues)
- Nup96: Chain AWD (1817 residues)
- Nup160: Chain NS (1436 residues)
- Nup96: Chain BCA (1817 residues)
- Nup160: Chain BOM (1436 residues)
- Nup133: Chain XF (1156 residues)
- p54: Chain BLB (507 residues)
- p62: Chain LN (522 residues)
- Nup155: Chain FL (1391 residues)
- Nup37: Chain KS (326 residues)
- Nup133: Chain AOV (1156 residues)
- Nup155: Chain ATM (1391 residues)
- Nup37: Chain BON (326 residues)
- p58: Chain FQ (599 residues)
- SEH1: Chain BCC (360 residues)
- p54: Chain BGK (507 residues)
- Nup43: Chain BEO (380 residues)
- Nup96: Chain BB (1817 residues)
- SEH1: Chain AED (360 residues)

- Nup160: Chain AAN (1436 residues)
- p58: Chain SF (599 residues)
- Nup85: Chain BOK (656 residues)
- Nup155: Chain APX (1391 residues)
- Nup93: Chain BBE (819 residues)
- Nup107: Chain AXF (925 residues)
- Nup96: Chain ARV (1817 residues)
- SEH1: Chain BFN (360 residues)
- Nup155: Chain YM (1391 residues)
- Nup155: Chain AFH (1391 residues)
- p62: Chain BLJ (522 residues)
- Nup37: Chain ALE (326 residues)
- Nup155: Chain BGA (1391 residues)
- Nup160: Chain QB (1436 residues)
- p62: Chain BBP (522 residues)
- Nup43: Chain GA (380 residues)
- Nup107: Chain ASM (925 residues)
- Nup37: Chain AUO (326 residues)
- p58: Chain AUZ (599 residues)
- Nup96: Chain PW (1817 residues)
- Nup160: Chain AHH (1436 residues)
- p58: Chain ADM (599 residues)
- p62: Chain YL (522 residues)
- Nup107: Chain BJM (925 residues)
- Nup155: Chain BP (1391 residues)
- Nup205: Chain GH (2012 residues)
- Nup43: Chain ASI (380 residues)
- p54: Chain BGH (507 residues)
- Nup160: Chain BLT (1436 residues)
- Nup133: Chain BER (1156 residues)
- Nup155: Chain EF (1391 residues)
- p62: Chain AGU (522 residues)
- Nup85: Chain FF (656 residues)
- Nup205: Chain RW (2012 residues)
- p58: Chain EC (599 residues)
- Nup43: Chain AKT (380 residues)
- Nup37: Chain BPF (326 residues)
- p58: Chain SI (599 residues)
- SEC13: Chain XI (322 residues)
- p58: Chain QT (599 residues)
- Nup37: Chain AAX (326 residues)
- p54: Chain ADI (507 residues)
- Nup160: Chain BAN (1436 residues)
- Nup155: Chain DO (1391 residues)
- Nup96: Chain BET (1817 residues)
- Nup93: Chain ASU (819 residues)
- Nup155: Chain BNB (1391 residues)
- p62: Chain AZL (522 residues)
- Nup85: Chain IH (656 residues)
- p58: Chain BIV (599 residues)
- Nup133: Chain OU (1156 residues)
- SEC13: Chain BNZ (322 residues)
- Nup155: Chain AFG (1391 residues)
- Nup133: Chain KK (1156 residues)
- Nup160: Chain AUN (1436 residues)
- Nup160: Chain AVZ (1436 residues)
- Nup85: Chain AVO (656 residues)
- SEH1: Chain BHO (360 residues)
- Nup43: Chain YU (380 residues)
- Nup133: Chain AI (1156 residues)
- SEH1: Chain SZ (360 residues)
- Nup205: Chain ANN (2012 residues)
- Nup96: Chain JS (1817 residues)
- Nup133: Chain VE (1156 residues)

- Nup133: Chain BJC (1156 residues)
- Nup96: Chain AZQ (1817 residues)
- Nup133: Chain APY (1156 residues)
- Nup205: Chain WJ (2012 residues)
- p54: Chain ZY (507 residues)
- p58: Chain N (599 residues)
- Nup155: Chain EY (1391 residues)
- Nup205: Chain WG (2012 residues)
- p58: Chain AUW (599 residues)
- SEC13: Chain TY (322 residues)
- SEC13: Chain ARW (322 residues)
- Nup37: Chain BFI (326 residues)
- Nup96: Chain AKP (1817 residues)
- p58: Chain DL (599 residues)
- p58: Chain AKA (599 residues)
- p62: Chain AVD (522 residues)
- Nup96: Chain AHC (1817 residues)
- Nup205: Chain HS (2012 residues)
- Nup155: Chain AUR (1391 residues)
- p62: Chain APS (522 residues)
- p58: Chain HE (599 residues)
- Nup37: Chain JE (326 residues)
- Nup96: Chain T (1817 residues)
- Nup43: Chain AIY (380 residues)
- p58: Chain APL (599 residues)
- SEH1: Chain AQU (360 residues)
- Nup96: Chain CJ (1817 residues)
- Nup37: Chain AYN (326 residues)
- Nup85: Chain ASQ (656 residues)
- p58: Chain ABR (599 residues)
- Nup93: Chain AYR (819 residues)
- Nup107: Chain AJL (925 residues)
- Nup85: Chain BCM (656 residues)
- p54: Chain ABT (507 residues)
- p54: Chain UT (507 residues)
- Nup85: Chain BCD (656 residues)
- Nup85: Chain BJQ (656 residues)
- Nup93: Chain BFV (819 residues)
- p62: Chain BNT (522 residues)
- p54: Chain APK (507 residues)
- Nup43: Chain BOU (380 residues)
- Nup133: Chain SM (1156 residues)
- Nup155: Chain HW (1391 residues)
- Nup85: Chain BAC (656 residues)
- Nup160: Chain DF (1436 residues)
- Nup160: Chain UL (1436 residues)
- Nup85: Chain VJ (656 residues)
- Nup160: Chain BMU (1436 residues)
- Nup37: Chain AYE (326 residues)
- Nup93: Chain RV (819 residues)
- p62: Chain BNQ (522 residues)
- p62: Chain ED (522 residues)
- SEH1: Chain ACU (360 residues)
- Nup85: Chain VS (656 residues)
- p54: Chain YJ (507 residues)
- p58: Chain BNJ (599 residues)
- Nup37: Chain DG (326 residues)
- Nup93: Chain EP (819 residues)
- Nup96: Chain AHU (1817 residues)
- p58: Chain UX (599 residues)
- SEC13: Chain AHD (322 residues)
- SEH1: Chain ADU (360 residues)
- Nup160: Chain ASS (1436 residues)
- p58: Chain CD (599 residues)

- Nup160: Chain AGH (1436 residues)
- Nup155: Chain PI (1391 residues)
- p54: Chain MU (507 residues)
- Nup85: Chain ACM (656 residues)
- Nup155: Chain ARS (1391 residues)
- Nup107: Chain AZY (925 residues)
- Nup155: Chain NB (1391 residues)
- SEC13: Chain UH (322 residues)
- Nup85: Chain BJZ (656 residues)
- Nup107: Chain AZP (925 residues)
- p62: Chain AGR (522 residues)
- Nup37: Chain NT (326 residues)
- Nup37: Chain BCP (326 residues)
- Nup155: Chain QO (1391 residues)
- Nup160: Chain AJI (1436 residues)
- p54: Chain ARO (507 residues)
- Nup133: Chain LT (1156 residues)
- p58: Chain OH (599 residues)
- Nup43: Chain BAV (380 residues)
- Nup107: Chain ID (925 residues)
- Nup93: Chain BPG (819 residues)
- Nup85: Chain AYK (656 residues)
- Nup85: Chain BGX (656 residues)
- Nup155: Chain AY (1391 residues)
- Nup37: Chain AQ (326 residues)
- p62: Chain AEZ (522 residues)
- Nup43: Chain BOC (380 residues)
- Nup155: Chain AG (1391 residues)
- p58: Chain ATB (599 residues)
- Nup85: Chain OZ (656 residues)
- Nup155: Chain RB (1391 residues)
- Nup43: Chain AHG (380 residues)
- Nup85: Chain BOT (656 residues)
- p54: Chain AD (507 residues)
- Nup37: Chain ACP (326 residues)
- Nup107: Chain BBZ (925 residues)
- Nup43: Chain SS (380 residues)
- Nup43: Chain AQE (380 residues)
- Nup205: Chain UR (2012 residues)
- p58: Chain KG (599 residues)
- Nup37: Chain BJT (326 residues)
- p62: Chain BGG (522 residues)
- p58: Chain All (599 residues)
- Nup155: Chain BQE (1391 residues)
- Nup155: Chain AYZ (1391 residues)
- p58: Chain AV (599 residues)
- Nup133: Chain OL (1156 residues)
- Nup96: Chain AOF (1817 residues)
- Nup133: Chain GO (1156 residues)
- Nup85: Chain RI (656 residues)
- Nup107: Chain AOE (925 residues)
- Nup160: Chain VU (1436 residues)
- Nup188: Chain BGC (1749 residues)
- Nup155: Chain ZU (1391 residues)
- Nup155: Chain GN (1391 residues)
- Nup155: Chain PS (1391 residues)
- Nup155: Chain AMG (1391 residues)
- Nup133: Chain TV (1156 residues)
- Nup205: Chain GY (2012 residues)
- Nup205: Chain BAZ (2012 residues)
- SEC13: Chain DB (322 residues)
- SEC13: Chain VH (322 residues)
- Nup133: Chain AGA (1156 residues)
- Nup107: Chain AGB (925 residues)

- p58: Chain IS (599 residues)
- Nup160: Chain BPE (1436 residues)
- SEH1: Chain BAT (360 residues)
- Nup93: Chain AYO (819 residues)
- Nup160: Chain BML (1436 residues)
- Nup107: Chain AIT (925 residues)
- p62: Chain MT (522 residues)
- Nup37: Chain YW (326 residues)
- Nup43: Chain BPD (380 residues)
- Nup155: Chain CG (1391 residues)
- p58: Chain BNM (599 residues)
- p62: Chain APV (522 residues)
- SEC13: Chain HL (322 residues)
- Nup96: Chain ABA (1817 residues)
- Nup133: Chain BNW (1156 residues)
- Nup107: Chain CI (925 residues)
- SEC13: Chain OX (322 residues)
- p54: Chain AIN (507 residues)
- Nup188: Chain BNG (1749 residues)
- p58: Chain AWR (599 residues)
- p54: Chain AWW (507 residues)
- Nup205: Chain ALS (2012 residues)
- Nup155: Chain AT (1391 residues)
- Nup96: Chain AUI (1817 residues)
- Nup133: Chain AEI (1156 residues)
- SEC13: Chain BCT (322 residues)
- Nup43: Chain BW (380 residues)
- SEC13: Chain AOG (322 residues)
- Nup93: Chain PD (819 residues)
- Nup107: Chain IX (925 residues)
- SEH1: Chain BFE (360 residues)
- Nup155: Chain BBJ (1391 residues)
- p54: Chain AZJ (507 residues)
- Nup85: Chain BFF (656 residues)
- Nup85: Chain XK (656 residues)
- Nup37: Chain AMZ (326 residues)
- Nup155: Chain ATN (1391 residues)
- Nup107: Chain AAH (925 residues)
- SEC13: Chain BCK (322 residues)
- Nup96: Chain AQJ (1817 residues)
- p58: Chain OB (599 residues)
- Nup93: Chain AWN (819 residues)
- Nup155: Chain ZR (1391 residues)
- Nup155: Chain AVI (1391 residues)
- p58: Chain MV (599 residues)
- Nup37: Chain JY (326 residues)
- Nup155: Chain AUU (1391 residues)
- Nup43: Chain AYL (380 residues)
- Nup93: Chain JI (819 residues)
- p54: Chain QS (507 residues)
- Nup155: Chain BDT (1391 residues)
- p58: Chain LM (599 residues)
- Nup37: Chain AST (326 residues)
- Nup107: Chain ABZ (925 residues)
- Nup160: Chain AFP (1436 residues)
- Nup93: Chain BMZ (819 residues)
- Nup37: Chain BKC (326 residues)
- SEC13: Chain BHN (322 residues)
- Nup93: Chain BIC (819 residues)
- Nup93: Chain J (819 residues)
- p62: Chain AMF (522 residues)
- Nup205: Chain BFZ (2012 residues)
- Nup96: Chain AXG (1817 residues)
- Nup205: Chain KA (2012 residues)

- Nup155: Chain US (1391 residues)
- Nup85: Chain AVX (656 residues)
- SEC13: Chain LW (322 residues)
- Nup93: Chain AQZ (819 residues)
- p62: Chain ARQ (522 residues)
- Nup93: Chain BFY (819 residues)
- SEH1: Chain BU (360 residues)
- SEH1: Chain BLQ (360 residues)
- SEH1: Chain LX (360 residues)
- p58: Chain ZW (599 residues)
- Nup93: Chain BPJ (819 residues)
- Nup107: Chain BHC (925 residues)
- Nup155: Chain BFU (1391 residues)
- Nup43: Chain AO (380 residues)
- p54: Chain CC (507 residues)
- Nup160: Chain BAE (1436 residues)
- p54: Chain UW (507 residues)
- p54: Chain ZV (507 residues)
- SEH1: Chain AOH (360 residues)
- p54: Chain AAB (507 residues)
- Nup155: Chain AGZ (1391 residues)
- p54: Chain AMD (507 residues)
- Nup107: Chain AJC (925 residues)
- Nup155: Chain ALT (1391 residues)
- SEH1: Chain BHF (360 residues)
- Nup155: Chain AYT (1391 residues)
- Nup43: Chain ACW (380 residues)
- Nup43: Chain TB (380 residues)
- Nup96: Chain BAI (1817 residues)
- Nup133: Chain AVJ (1156 residues)
- Nup107: Chain AQR (925 residues)
- SEH1: Chain BJG (360 residues)
- Nup96: Chain BFC (1817 residues)
- p54: Chain AGS (507 residues)
- Nup107: Chain QE (925 residues)
- SEH1: Chain BOJ (360 residues)
- Nup155: Chain AMH (1391 residues)
- Nup43: Chain AMO (380 residues)
- Nup205: Chain FK (2012 residues)
- Nup85: Chain AJG (656 residues)
- Nup107: Chain BCI (925 residues)
- p58: Chain BBO (599 residues)
- Nup205: Chain AYV (2012 residues)
- Nup93: Chain ABK (819 residues)
- Nup37: Chain PC (326 residues)
- Nup93: Chain AJW (819 residues)
- SEC13: Chain ATR (322 residues)
- Nup133: Chain ASC (1156 residues)
- Nup37: Chain BH (326 residues)
- SEH1: Chain AGE (360 residues)
- SEC13: Chain AVV (322 residues)
- Nup155: Chain DN (1391 residues)
- Nup133: Chain ABY (1156 residues)
- Nup93: Chain AJT (819 residues)
- Nup155: Chain AYQ (1391 residues)
- Nup96: Chain AEK (1817 residues)
- Nup43: Chain AYC (380 residues)
- Nup205: Chain AIC (2012 residues)
- SEC13: Chain BMH (322 residues)
- SEC13: Chain CK (322 residues)
- Nup205: Chain QN (2012 residues)
- Nup160: Chain ST (1436 residues)
- Nup37: Chain BLU (326 residues)
- Nup96: Chain BCS (1817 residues)

- Nup85: Chain AOR (656 residues)
- Nup37: Chain AGI (326 residues)
- Nup107: Chain BCR (925 residues)
- p54: Chain APT (507 residues)
- Nup85: Chain BE (656 residues)
- p62: Chain LQ (522 residues)
- Nup93: Chain AGM (819 residues)
- p54: Chain ADF (507 residues)
- Nup37: Chain AJS (326 residues)
- p62: Chain MW (522 residues)
- Nup107: Chain ACR (925 residues)
- Nup107: Chain ANB (925 residues)
- Nup93: Chain BBH (819 residues)
- Nup133: Chain AIS (1156 residues)
- p62: Chain AGX (522 residues)
- p58: Chain AME (599 residues)
- Nup160: Chain BFH (1436 residues)
- Nup155: Chain HT (1391 residues)
- Nup43: Chain AFO (380 residues)
- SEH1: Chain ALA (360 residues)
- Nup133: Chain BHB (1156 residues)
- p54: Chain BEA (507 residues)
- Nup37: Chain ABG (326 residues)
- Nup107: Chain ACI (925 residues)
- Nup96: Chain AJD (1817 residues)
- SEH1: Chain AOZ (360 residues)
- Nup160: Chain XV (1436 residues)
- Nup93: Chain DH (819 residues)
- Nup155: Chain RX (1391 residues)
- Nup37: Chain CP (326 residues)
- Nup96: Chain SO (1817 residues)
- p62: Chain QX (522 residues)
- SEH1: Chain ZK (360 residues)
- Nup93: Chain AA (819 residues)
- Nup160: Chain RT (1436 residues)
- Nup205: Chain AJX (2012 residues)
- Nup43: Chain QA (380 residues)
- p54: Chain HX (507 residues)
- Nup155: Chain BPL (1391 residues)
- Nup43: Chain JW (380 residues)
- Nup107: Chain ADR (925 residues)
- Nup107: Chain BMO (925 residues)
- Nup93: Chain PG (819 residues)
- Nup85: Chain ALB (656 residues)
- Nup96: Chain RO (1817 residues)
- Nup96: Chain BCJ (1817 residues)
- Nup160: Chain BHR (1436 residues)
- SEC13: Chain ACK (322 residues)
- p58: Chain YH (599 residues)
- Nup85: Chain AN (656 residues)
- Nup155: Chain Q (1391 residues)
- p62: Chain YF (522 residues)
- Nup155: Chain ABW (1391 residues)
- p54: Chain OD (507 residues)
- p62: Chain AZC (522 residues)
- Nup107: Chain AJ (925 residues)
- Nup37: Chain AEQ (326 residues)
- Nup43: Chain AQN (380 residues)
- p62: Chain BDZ (522 residues)
- p58: Chain AZE (599 residues)
- Nup155: Chain APW (1391 residues)
- Nup85: Chain BFO (656 residues)
- Nup85: Chain AFN (656 residues)
- p54: Chain WL (507 residues)

- SEC13: Chain AKZ (322 residues)
- Nup96: Chain ZI (1817 residues)
- p54: Chain AVE (507 residues)
- Nup155: Chain BNE (1391 residues)
- Nup85: Chain AFW (656 residues)
- Nup93: Chain AIB (819 residues)
- Nup155: Chain BDN (1391 residues)
- p58: Chain OE (599 residues)
- Nup37: Chain SU (326 residues)
- SEH1: Chain AVW (360 residues)
- Nup155: Chain BBG (1391 residues)
- SEH1: Chain AKR (360 residues)
- Nup160: Chain AQF (1436 residues)
- Nup43: Chain AFX (380 residues)
- Nup133: Chain WW (1156 residues)
- Nup37: Chain DX (326 residues)
- Nup155: Chain AGY (1391 residues)
- p58: Chain PN (599 residues)
- Nup107: Chain BOP (925 residues)
- p58: Chain AEY (599 residues)
- Nup37: Chain VV (326 residues)
- Nup93: Chain UN (819 residues)
- Nup155: Chain BPO (1391 residues)
- p62: Chain DM (522 residues)
- Nup205: Chain HB (2012 residues)
- Nup85: Chain PZ (656 residues)
- p62: Chain TS (522 residues)
- Nup188: Chain BKW (1749 residues)
- p58: Chain JM (599 residues)
- SEH1: Chain AMV (360 residues)
- p62: Chain BNK (522 residues)
- Nup107: Chain AEA (925 residues)
- SEC13: Chain BOI (322 residues)
- Nup205: Chain DI (2012 residues)
- Nup37: Chain BFR (326 residues)
- Nup43: Chain BDF (380 residues)
- p54: Chain AKF (507 residues)
- SEC13: Chain JT (322 residues)
- Nup43: Chain AVY (380 residues)
- Nup155: Chain JK (1391 residues)
- Nup96: Chain EI (1817 residues)
- Nup85: Chain ARY (656 residues)
- Nup155: Chain GF (1391 residues)
- Nup155: Chain BNV (1391 residues)
- Nup155: Chain VD (1391 residues)
- Nup96: Chain SX (1817 residues)
- Nup93: Chain BPM (819 residues)
- Nup85: Chain AKS (656 residues)
- Nup133: Chain BCH (1156 residues)
- p58: Chain AKJ (599 residues)
- SEC13: Chain BPA (322 residues)
- SEH1: Chain AHE (360 residues)
- p54: Chain SB (507 residues)
- Nup37: Chain AEH (326 residues)
- Nup96: Chain DR (1817 residues)
- p54: Chain MX (507 residues)
- p58: Chain AGT (599 residues)
- Nup155: Chain PT (1391 residues)
- Nup107: Chain FB (925 residues)
- p62: Chain ZX (522 residues)
- Nup85: Chain BMJ (656 residues)
- p62: Chain APP (522 residues)
- SEC13: Chain D (322 residues)
- p58: Chain AWX (599 residues)

	<ul style="list-style-type: none"> - p54: Chain WO (507 residues) - SEC13: Chain IZ (322 residues) - Nup133: Chain IW (1156 residues) - Nup93: Chain BI (819 residues) - Nup160: Chain APC (1436 residues) - p58: Chain UU (599 residues) - Nup160: Chain H (1436 residues) - p62: Chain AXB (522 residues) - Nup43: Chain JC (380 residues) - Nup107: Chain BFK (925 residues) - p54: Chain AFA (507 residues) - Nup133: Chain BGS (1156 residues) - p54: Chain ADL (507 residues) - Nup133: Chain AOM (1156 residues) - Nup43: Chain AAM (380 residues) - Nup155: Chain IA (1391 residues) - Nup96: Chain IY (1817 residues)
Datasets used for modeling	<ul style="list-style-type: none"> - Experimental model, PDB ID: 5a9q - 3DEM volume, File: 10.5281/zenodo.6908584 - 3DEM volume, File: 10.5281/zenodo.6908584 - 3DEM volume, File: 10.5281/zenodo.6908584 - 3DEM volume, File: 10.5281/zenodo.6908584 - 3DEM volume, File: 10.5281/zenodo.6908584 - 3DEM volume, File: 10.5281/zenodo.6908584 - Experimental model, PDB ID: 5ijn
2. Representation	
Resolution	Coarse-grained: 17, 18, 30, 32, 33, 37, 38, 47, 48, 64, 78, 82, 117, 136, 157, 169 residue(s) per bead
Number of <i>rigid bodies</i>, <i>flexible units</i>	1800, 0
	<ul style="list-style-type: none"> - 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 - 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

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- RS: 1-380
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- VK: 1-380
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- AGD: 1-322
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- FY: 1-360

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- HM: 1-360
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- JA: 1-360
- JU: 1-360
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- KX: 1-360
- LX: 1-360
- MG: 1-360
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- ZK: 1-360
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Rigid bodies

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- AXR: 1-360
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- AYJ: 1-360
- AZS: 1-360
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- BAK: 1-360
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- VJ: 1-656
- VS: 1-656
- WB: 1-656
- XB: 1-656
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- XT: 1-656
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- ZL: 1-656
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- AGX: 1-522
- AIJ: 1-522
- AIM: 1-522
- AIP: 1-522
- AKB: 1-522
- AKE: 1-522
- AKH: 1-522
- AKK: 1-522
- 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

	<ul style="list-style-type: none"> - ATC: 1-522 - ATF: 1-522 - ATI: 1-522 - ATL: 1-522 - AUX: 1-522 - AVA: 1-522 - AVD: 1-522 - AVG: 1-522 - 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 - 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
<i>Structural coverage (rigid bodies)</i>	100%
3. Restraints	
<i>Physical principles</i>	Information about physical principles was not provided
<i>Experimental data</i>	- 1 unique EM3DRestraint: Gaussian Mixture Model
4. Validation	
<i>Number of ensembles</i>	0
<i>Number of models in ensembles</i>	Not applicable
<i>Number of deposited models</i>	6

<i>Model precision (uncertainty of models)</i>	Model precision can not be calculated with one structure
<i>Data quality</i>	Data quality has not been assessed
<i>Model quality: assessment of excluded volume</i>	Satisfaction: 99.95-99.99%
<i>Fit to data used for modeling</i>	Fit of model to information used to compute it has not been determined
<i>Fit to data used for validation</i>	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
2. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
3. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
4. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
5. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
6. <i>Method</i>	Sampling
<i>Name</i>	MC sampling
<i>Description</i>	MC sampling with 1000000 steps
<i>Software</i>	- Integrative Modeling Platform (version 2.13.0) - gmconvert (version v2020.05.10)