

Summary of integrative structure determination of Integrative structure and functional anatomy of three spokes of a nuclear pore complex (PDB ID: 8ZZB, PDB-Dev ID: PDBDEV_0000011)

1. Model Composition	
	<ul style="list-style-type: none"> - Nsp1: Chain AW (823 residues) - Nup1: Chain GG (1076 residues) - Nup192: Chain DR (1683 residues) - Nup49: Chain BU (472 residues) - Nup49: Chain CG (472 residues) - Nup192: Chain EH (1683 residues) - Nup57: Chain CT (541 residues) - Seh1: Chain AA (349 residues) - Nup1: Chain GQ (1076 residues) - Nup188: Chain DQ (1655 residues) - Sec13: Chain AP (297 residues) - Ndc1: Chain EZ (655 residues) - Nup57: Chain CD (541 residues) - Nup84: Chain O (726 residues) - Nup157: Chain DK (1391 residues) - Nic96: Chain CA (839 residues) - Nup84: Chain A (726 residues) - Nup192: Chain ED (1683 residues) - Pom152: Chain EM (1337 residues) - Dyn2: Chain AQ (92 residues) - Nup57: Chain DJ (541 residues) - Nup116: Chain FV (1113 residues) - Nup49: Chain DI (472 residues) - Nup192: Chain DV (1683 residues) - Nic96: Chain CY (839 residues) - Nup100: Chain FS (959 residues) - Nup59: Chain EJ (528 residues) - Nup60: Chain GR (539 residues) - Nup133: Chain K (1157 residues) - Nup82: Chain BB (713 residues) - Ndc1: Chain FE (655 residues) - Nup120: Chain Q (1037 residues) - Nup120: Chain X (1037 residues) - Nup145c: Chain AN (712 residues) - Nup82: Chain AS (713 residues) - Nsp1: Chain CZ (823 residues) - Nup53: Chain FC (475 residues) - Nup120: Chain AE (1037 residues) - Nsp1: Chain CV (823 residues) - Sec13: Chain AB (297 residues) - Nup1: Chain GL (1076 residues) - Dyn2: Chain BG (92 residues) - Nup145: Chain GE (1317 residues) - Pom152: Chain FL (1337 residues) - Nsp1: Chain BM (823 residues) - Pom34: Chain EQ (299 residues) - Nup100: Chain FM (959 residues) - Seh1: Chain M (349 residues) - Nup82: Chain BI (713 residues) - Nup133: Chain D (1157 residues) - Nup82: Chain AT (713 residues) - Nsp1: Chain CJ (823 residues) - Nup49: Chain CK (472 residues) - Nic96: Chain CM (839 residues) - Nsp1: Chain CB (823 residues)

[Entry composition](#)

- Nup100: Chain FY (959 residues)
- Nsp1: Chain CF (823 residues)
- Nup188: Chain DU (1655 residues)
- Nup84: Chain AC (726 residues)
- Nup145: Chain GF (1317 residues)
- Mlp1: Chain GV (1875 residues)
- Nic96: Chain BO (839 residues)
- Nup49: Chain CS (472 residues)
- Nup157: Chain DO (1391 residues)
- Nup84: Chain H (726 residues)
- Nsp1: Chain DH (823 residues)
- Nic96: Chain CU (839 residues)
- Nup59: Chain FD (528 residues)
- Nup116: Chain FU (1113 residues)
- Nup145c: Chain AG (712 residues)
- Nup60: Chain GM (539 residues)
- Nup57: Chain CH (541 residues)
- Nup159: Chain BD (1460 residues)
- Nup53: Chain EX (475 residues)
- Pom34: Chain FF (299 residues)
- Nsp1: Chain BP (823 residues)
- Nup192: Chain DZ (1683 residues)
- Nup53: Chain EN (475 residues)
- Mlp1: Chain GX (1875 residues)
- Nup145: Chain GO (1317 residues)
- Nup59: Chain EO (528 residues)
- Nup84: Chain V (726 residues)
- Nic96: Chain CI (839 residues)
- Nup49: Chain CW (472 residues)
- Nup57: Chain CX (541 residues)
- Sec13: Chain N (297 residues)
- Nup170: Chain EB (1502 residues)
- Nup59: Chain ET (528 residues)
- Gle1: Chain FX (538 residues)
- Dyn2: Chain BH (92 residues)
- Gle1: Chain FR (538 residues)
- Nup57: Chain CL (541 residues)
- Nup49: Chain BY (472 residues)
- Nup170: Chain DT (1502 residues)
- Nup42: Chain FW (430 residues)
- Nup188: Chain DY (1655 residues)
- Nup116: Chain GB (1113 residues)
- Nic96: Chain DG (839 residues)
- Nup59: Chain EY (528 residues)
- Sec13: Chain G (297 residues)
- Nic96: Chain CE (839 residues)
- Nup159: Chain AV (1460 residues)
- Nup133: Chain AF (1157 residues)
- Nup85: Chain W (744 residues)
- Pom34: Chain EL (299 residues)
- Seh1: Chain AO (349 residues)
- Nup145: Chain GK (1317 residues)
- Nup60: Chain GN (539 residues)
- Nup188: Chain EC (1655 residues)
- Pom34: Chain EV (299 residues)
- Nup57: Chain CP (541 residues)
- Nup100: Chain FZ (959 residues)
- Nup159: Chain AU (1460 residues)
- Nup116: Chain FO (1113 residues)
- Sec13: Chain U (297 residues)
- Nup188: Chain EG (1655 residues)
- Seh1: Chain F (349 residues)
- Nup145c: Chain Z (712 residues)
- Nup157: Chain EA (1391 residues)

- Nup157: Chain DW (1391 residues)
- Nup157: Chain EE (1391 residues)
- Nup145: Chain GP (1317 residues)
- Pom152: Chain FG (1337 residues)
- Nic96: Chain CQ (839 residues)
- Nup170: Chain DX (1502 residues)
- Nic96: Chain DC (839 residues)
- Nsp1: Chain AX (823 residues)
- Nup120: Chain AL (1037 residues)
- Nup85: Chain AK (744 residues)
- Nup157: Chain DS (1391 residues)
- Nup49: Chain BQ (472 residues)
- Nup170: Chain DL (1502 residues)
- Ndc1: Chain EP (655 residues)
- Nup145c: Chain L (712 residues)
- Pom152: Chain ER (1337 residues)
- Nup57: Chain DB (541 residues)
- Ndc1: Chain EK (655 residues)
- Seh1: Chain AH (349 residues)
- Nup116: Chain FP (1113 residues)
- Nup49: Chain CO (472 residues)
- Nup145c: Chain S (712 residues)
- Dyn2: Chain AY (92 residues)
- Nup85: Chain B (744 residues)
- Nup59: Chain FI (528 residues)
- Nsp1: Chain BF (823 residues)
- Ndc1: Chain FJ (655 residues)
- Mlp1: Chain GT (1875 residues)
- Nup120: Chain J (1037 residues)
- Nup82: Chain BJ (713 residues)
- Mlp2: Chain GY (1679 residues)
- Gle1: Chain GD (538 residues)
- Nup100: Chain FT (959 residues)
- Nup85: Chain P (744 residues)
- Nup60: Chain GS (539 residues)
- Nup49: Chain DE (472 residues)
- Nsp1: Chain BX (823 residues)
- Pom152: Chain FB (1337 residues)
- Nup145: Chain GJ (1317 residues)
- Nsp1: Chain CR (823 residues)
- Nup116: Chain GA (1113 residues)
- Nup57: Chain BR (541 residues)
- Nup57: Chain DF (541 residues)
- Nup120: Chain C (1037 residues)
- Nup133: Chain Y (1157 residues)
- Nup133: Chain AM (1157 residues)
- Nsp1: Chain BE (823 residues)
- Nup159: Chain BL (1460 residues)
- Dyn2: Chain AR (92 residues)
- Nup159: Chain BC (1460 residues)
- Ndc1: Chain EU (655 residues)
- Nsp1: Chain BN (823 residues)
- Sec13: Chain AI (297 residues)
- Nup49: Chain CC (472 residues)
- Nup188: Chain DM (1655 residues)
- Nsp1: Chain DD (823 residues)
- Nup53: Chain FH (475 residues)
- Nup60: Chain GI (539 residues)
- Nup49: Chain DA (472 residues)
- Seh1: Chain T (349 residues)
- Pom152: Chain EW (1337 residues)
- Nsp1: Chain BT (823 residues)
- Nup82: Chain BA (713 residues)
- Nup57: Chain BV (541 residues)

- Nup170: Chain EF (1502 residues)
- Nup145c: Chain E (712 residues)
- Nup192: Chain DN (1683 residues)
- Nic96: Chain BS (839 residues)
- Nup57: Chain BZ (541 residues)
- Nup60: Chain GH (539 residues)
- Mlp2: Chain GW (1679 residues)
- Nup84: Chain AJ (726 residues)
- Mlp2: Chain GU (1679 residues)
- Nup159: Chain BK (1460 residues)
- Nsp1: Chain CN (823 residues)
- Dyn2: Chain AZ (92 residues)
- Nup42: Chain GC (430 residues)
- Nup85: Chain AD (744 residues)
- Nup170: Chain DP (1502 residues)
- Nup100: Chain FN (959 residues)
- Nup133: Chain R (1157 residues)
- Nup53: Chain EI (475 residues)
- Nic96: Chain BW (839 residues)
- Pom34: Chain FA (299 residues)
- Nup42: Chain FQ (430 residues)
- Pom34: Chain FK (299 residues)
- Nup53: Chain ES (475 residues)
- Nup85: Chain I (744 residues)

- Integrative model, File: 10.1016/j.cell.2016.10.028
- Integrative model, File: 10.5281/zenodo.1194547
- Experimental model, PDB ID: 5CWS
- Comparative model, template PDB ID: Not available
- Experimental model, PDB ID: 2QX5
- Experimental model, PDB ID: Not available
- Experimental model, PDB ID: Not available
- Comparative model, template PDB ID: Not available
- Comparative model, template PDB ID: Not available
- Comparative model, template PDB ID: Not available
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- Comparative model, template PDB ID: Not available
- Comparative model, template PDB ID: Not available
- Comparative model, template PDB ID: Not available
- Integrative model, File: 10.1016/j.str.2017.01.006
- Integrative model, File: 10.5281/zenodo.1194547
- Experimental model, PDB ID: 3NF5
- Comparative model, template PDB ID: Not available
- Comparative model, template PDB ID: Not available
- Experimental model, PDB ID: 3KEP
- Experimental model, PDB ID: Not available
- Mass Spectrometry data, File: 10.5281/zenodo.1149746
- Crosslinking-MS data, Linker name and number of cross-links: DSS, 508 cross-links
- Crosslinking-MS data, Linker name and number of cross-links: DSS, 509 cross-links
- EM raw micrographs, EMPIAR: EMPIAR-10155
- 3DEM volume, EMDB: EMD-7321
- 3DEM volume, File: 10.5281/zenodo.1194547
- SAS data, File: 10.5281/zenodo.1194547

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- Q: -
- R: -
- S: -
- T: -
- U: -
- V: -
- W: -
- X: -
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- AV: -
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- BD: -
- BE: -
- BF: -
- BG: -
- BH: -
- BI: -
- BJ: -
- BK: -
- BL: -
- BM: -
- BN: -
- BO: 20-56
- BP: 637-727, 742-778, 788-823
- BQ: 270-359, 369-407, 433-472
- BR: 287-423, 433-476, 505-540
- BS: 20-56
- BT: 637-727, 742-778, 788-823
- BU: 270-359, 369-407, 433-472
- BV: 287-423, 433-476, 505-540
- BW: -
- BX: -
- BY: -
- BZ: -

Rigid bodies

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- CC: -
- CD: -
- CE: -
- CF: -
- CG: -
- CH: -
- CI: -
- CJ: -
- CK: -
- CL: -
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- CR: -
- CS: -
- CT: -
- CU: -
- CV: -
- CW: -
- CX: -
- CY: -
- CZ: -
- DA: -
- DB: -
- DC: -
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- DG: -
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- DL: -
- DM: -
- DN: -
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- DX: -
- DY: -
- DZ: -
- EA: -
- EB: -
- EC: -
- ED: -
- EE: -
- EF: -
- EG: -
- EH: -
- EI: -
- EJ: -
- EK: -
- EL: -

- EM: -
- EN: -
- EO: -
- EP: -
- EQ: -
- ER: -
- ES: -
- ET: -
- EU: -
- EV: -
- EW: -
- EX: -
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- FB: -
- FC: -
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- GO: -
- GP: -
- GQ: -
- GR: -
- GS: -
- GT: -
- GU: -
- GV: -
- GW: -
- GX: -

- GY: -

- A: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726

- B: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744

- C: 1-1, 2-29, 30-52, 53-305, 306-310, 311-711, 712-714, 715-726, 727-732, 733-746, 747-753, 754-766, 767-769, 770-781, 782-806, 807-818, 819-820, 821-833, 834-837, 838-853, 854-861, 862-879, 880-883, 884-895, 896-900, 901-913, 914-916, 917-931, 932-942, 943-955, 956-959, 960-971, 972-975, 976-987, 988-993, 994-1008, 1009-1024, 1025-1036, 1037-1037

- D: 1-55, 56-78, 79-85, 86-125, 126-132, 133-144, 145-161, 162-184, 185-192, 193-200, 201-205, 206-249, 250-257, 258-480, 481-489, 490-763, 764-771, 772-1155, 1156-1157

- E: 1-91, 92-99, 100-125, 126-144, 145-148, 149-550, 551-553, 554-560, 561-565, 566-576, 577-586, 587-602, 603-611, 612-624, 625-630, 631-645, 646-653, 654-673, 674-680, 681-689, 690-702, 703-712

- F: 1-248, 249-287, 288-346, 347-349

- G: 1-9, 10-158, 159-165, 166-296, 297-297

- H: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726

- I: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744

- J: 1-1, 2-29, 30-52, 53-305, 306-310, 311-711, 712-714, 715-726, 727-732, 733-746, 747-753, 754-766, 767-769, 770-781, 782-806, 807-818, 819-820, 821-833, 834-837, 838-853, 854-861, 862-879, 880-883, 884-895, 896-900, 901-913, 914-916, 917-931, 932-942, 943-955, 956-959, 960-971, 972-975, 976-987, 988-993, 994-1008, 1009-1024, 1025-1036, 1037-1037

- K: 1-55, 56-78, 79-85, 86-125, 126-132, 133-144, 145-161, 162-184, 185-192, 193-200, 201-205, 206-249, 250-257, 258-480, 481-489, 490-763, 764-771, 772-1155, 1156-1157

- L: 1-91, 92-99, 100-125, 126-144, 145-148, 149-550, 551-553, 554-560, 561-565, 566-576, 577-586, 587-602, 603-611, 612-624, 625-630, 631-645, 646-653, 654-673, 674-680, 681-689, 690-702, 703-712

- M: 1-248, 249-287, 288-346, 347-349

- N: 1-9, 10-158, 159-165, 166-296, 297-297

- O: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726

- P: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744

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- R: 1-55, 56-78, 79-85, 86-125, 126-132, 133-144, 145-161, 162-184, 185-192, 193-200, 201-205, 206-249, 250-257, 258-480, 481-489, 490-763, 764-771, 772-1155, 1156-1157

- S: 1-91, 92-99, 100-125, 126-144, 145-148, 149-550, 551-553, 554-560, 561-565, 566-576, 577-586, 587-602, 603-611, 612-624, 625-630, 631-645, 646-653, 654-673, 674-680, 681-689, 690-702, 703-712

- T: 1-248, 249-287, 288-346, 347-349

- U: 1-9, 10-158, 159-165, 166-296, 297-297

- V: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726

- W: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744

- X: 1-1, 2-29, 30-52, 53-305, 306-310, 311-711, 712-714, 715-726, 727-732, 733-746, 747-753, 754-766, 767-769, 770-781, 782-806, 807-818, 819-820, 821-833, 834-837, 838-853, 854-861, 862-879, 880-883, 884-895, 896-900, 901-913, 914-916, 917-931, 932-942, 943-955, 956-959, 960-971, 972-975, 976-987, 988-993, 994-1008, 1009-1024, 1025-1036, 1037-1037

- Y: 1-55, 56-78, 79-85, 86-125, 126-132, 133-144, 145-161, 162-184, 185-192, 193-200, 201-205, 206-249, 250-257, 258-480, 481-489, 490-763, 764-771, 772-1155, 1156-1157

- Z: 1-91, 92-99, 100-125, 126-144, 145-148, 149-550, 551-553, 554-560, 561-565, 566-576, 577-586, 587-602, 603-611, 612-624, 625-630, 631-645, 646-653, 654-673, 674-680, 681-689, 690-702, 703-712

- AA: 1-248, 249-287, 288-346, 347-349

- AB: 1-9, 10-158, 159-165, 166-296, 297-297

- AC: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726

- AD: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744

- AE: 1-1, 2-29, 30-52, 53-305, 306-310, 311-711, 712-714, 715-726, 727-732, 733-746, 747-753, 754-766, 767-769, 770-781, 782-806, 807-818, 819-820, 821-833, 834-837, 838-853, 854-861, 862-879, 880-883, 884-895, 896-900, 901-913, 914-916, 917-931, 932-942, 943-955, 956-959, 960-971, 972-975, 976-987, 988-993, 994-1008, 1009-1024, 1025-1036, 1037-1037

- AF: 1-55, 56-78, 79-85, 86-125, 126-132, 133-144, 145-161, 162-184, 185-192, 193-200, 201-205, 206-

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- AG: 1-91, 92-99, 100-125, 126-144, 145-148, 149-550, 551-553, 554-560, 561-565, 566-576, 577-586, 587-602, 603-611, 612-624, 625-630, 631-645, 646-653, 654-673, 674-680, 681-689, 690-702, 703-712
- AH: 1-248, 249-287, 288-346, 347-349
- AI: 1-9, 10-158, 159-165, 166-296, 297-297
- AJ: 1-6, 7-20, 21-26, 27-80, 81-95, 96-126, 127-135, 136-364, 365-371, 372-483, 484-505, 506-562, 563-574, 575-726
- AK: 1-46, 47-126, 127-131, 132-230, 231-234, 235-436, 437-450, 451-492, 493-495, 496-544, 545-552, 553-560, 561-566, 567-585, 586-589, 590-597, 598-602, 603-612, 613-615, 616-634, 635-637, 638-655, 656-660, 661-675, 676-684, 685-699, 700-706, 707-719, 720-724, 725-744
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- EM: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- EN: 1-247, 248-284, 285-303, 304-360, 361-475
- EO: 1-265, 266-302, 303-345, 346-402, 403-528
- EP: 1-655
- EQ: 1-299
- ER: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- ES: 1-247, 248-284, 285-303, 304-360, 361-475
- ET: 1-265, 266-302, 303-345, 346-402, 403-528
- EU: 1-655
- EV: 1-299
- EW: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- EX: 1-247, 248-284, 285-303, 304-360, 361-475
- EY: 1-265, 266-302, 303-345, 346-402, 403-528
- EZ: 1-655
- FA: 1-299
- FB: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- FC: 1-247, 248-284, 285-303, 304-360, 361-475
- FD: 1-265, 266-302, 303-345, 346-402, 403-528
- FE: 1-655
- FF: 1-299
- FG: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- FH: 1-247, 248-284, 285-303, 304-360, 361-475
- FI: 1-265, 266-302, 303-345, 346-402, 403-528
- FJ: 1-655
- FK: 1-299
- FL: 1-378, 379-472, 473-519, 520-611, 612-615, 616-714, 715-721, 722-818, 819-823, 824-918, 919-930, 931-1026, 1027-1035, 1036-1141, 1142-1149, 1150-1229, 1230-1243, 1244-1337
- FM: 551-815, 959-959
- FN: 551-815, 959-959
- FO: 751-965, 966-1111, 1112-1113
- FP: 751-965, 966-1111, 1112-1113
- FQ: -
- FR: 1-120
- FS: 551-815, 816-958, 959-959
- FT: 551-815, 816-958, 959-959
- FU: 751-965, 966-1111, 1112-1113
- FV: 751-965, 966-1111, 1112-1113
- FW: -

	<ul style="list-style-type: none"> - FX: 1-120 - FY: 551-815, 816-958, 959-959 - FZ: 551-815, 816-958, 959-959 - GA: 751-965, 966-1111, 1112-1113 - GB: 751-965, 966-1111, 1112-1113 - GC: - - GD: 1-120 - GE: 201-458 - GF: 201-458 - GG: 1-351 - GH: 1-398 - GI: 1-398 - GJ: 201-458, 459-605 - GK: 201-458, 459-605 - GL: 1-351 - GM: 1-398 - GN: 1-398 - GO: 201-458, 459-605 - GP: 201-458, 459-605 - GQ: 1-351 - GR: 1-398 - GS: 1-398 - GT: 238-716 - GU: 215-690 - GV: 238-716 - GW: 215-690 - GX: 238-716 - GY: 215-690
<i>Structural coverage (rigid bodies)</i>	0%
3. Restraints	
<i>Physical principles</i>	Information about physical principles was not provided
<i>Experimental data</i>	<ul style="list-style-type: none"> - 1 unique GeometricRestraint: Assembly name: SAXS subassembly Fitting method: FoXS Multi-state: False - 1 unique EM3DRestraint: DSS, 508 cross-links - 1 unique SASRestraint: Gaussian mixture models - 1 unique EM2DRestraint: DSS, 509 cross-links - 1 unique CrossLinkRestraint: Number of micrographs: 800, Image resolution: 35.0
4. Validation	
<i>Number of ensembles</i>	1
<i>Number of models in ensembles</i>	5
<i>Number of deposited models</i>	1
<i>Model precision (uncertainty of models)</i>	1.0, Å

Data quality	<ul style="list-style-type: none"> - SASDBV9: Rg from Gunier is 1.77nm and Rg from p(r) is 1.82nm - SASDBW9: Rg from Gunier is 2.71nm and Rg from p(r) is 2.79nm - SASDBZ9: Rg from Gunier is 4.34nm and Rg from p(r) is 4.63nm - SASDBX9: Rg from Gunier is 2.78nm and Rg from p(r) is 2.64nm - SASDBY9: Rg from Gunier is 2.95nm and Rg from p(r) is 2.98nm
Model quality: assessment of excluded volume	Satisfaction: 99.99-99.99%
Fit to data used for modeling	Fit of model to information used to compute it has not been determined
Fit to data used for validation	Fit of model to information not used to compute it has not been determined
5. Methodology and Software	
1. Method	Sampling
Name	Replica exchange monte carlo
Number of computed models	500
2. Method	Sampling
Name	Replica exchange monte carlo
Number of computed models	3000
3. Method	Sampling
Name	Replica exchange monte carlo
Number of computed models	1000
Software	<ul style="list-style-type: none"> - Integrative Modeling Platform (IMP) (version develop-0a5706e202) - IMP PMI module (version 67456c0) - HHpred (version 2.0.16) - PSIPRED (version 4.0) - DISOPRED (version 3) - DomPred (version Not available) - COILS/PCOILS (version Not available) - EMAN2 (version 2.2) - RELION (version 1.4) - SGD (version Not available) - HeliQuest (version Not available) - MODELLER (version 9.15) - MODELLER (version 9.13)