

# Integrative Structure Validation Report ?

July 22, 2024 - 03:34 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	8ZZ8
PDB-Dev ID	PDBDEV_00000008
Structure Title	Fly Genome Structure: Chromosome 2L
Structure Authors	David C

*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](mailto:pdb-dev@mail.wwpdb.org)*

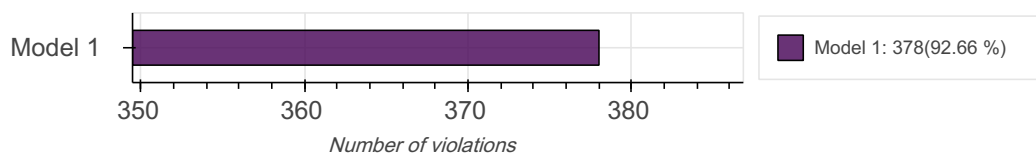
*A user guide is available at [https://pdb-dev.wwpdb.org/validation\\_help.html](https://pdb-dev.wwpdb.org/validation_help.html) with specific help available everywhere you see the ? symbol.*

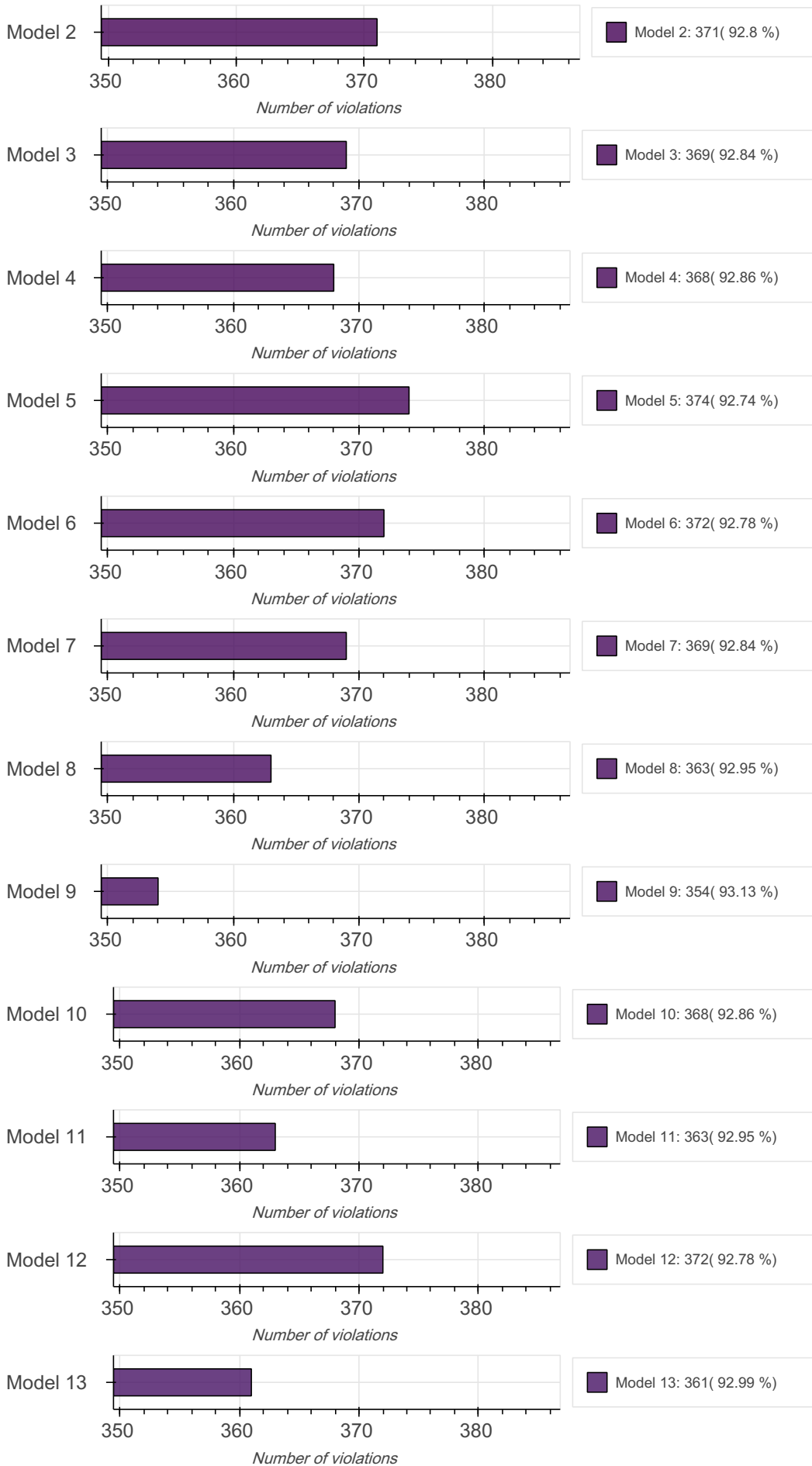
*List of references used to build this report is available [here](#).*

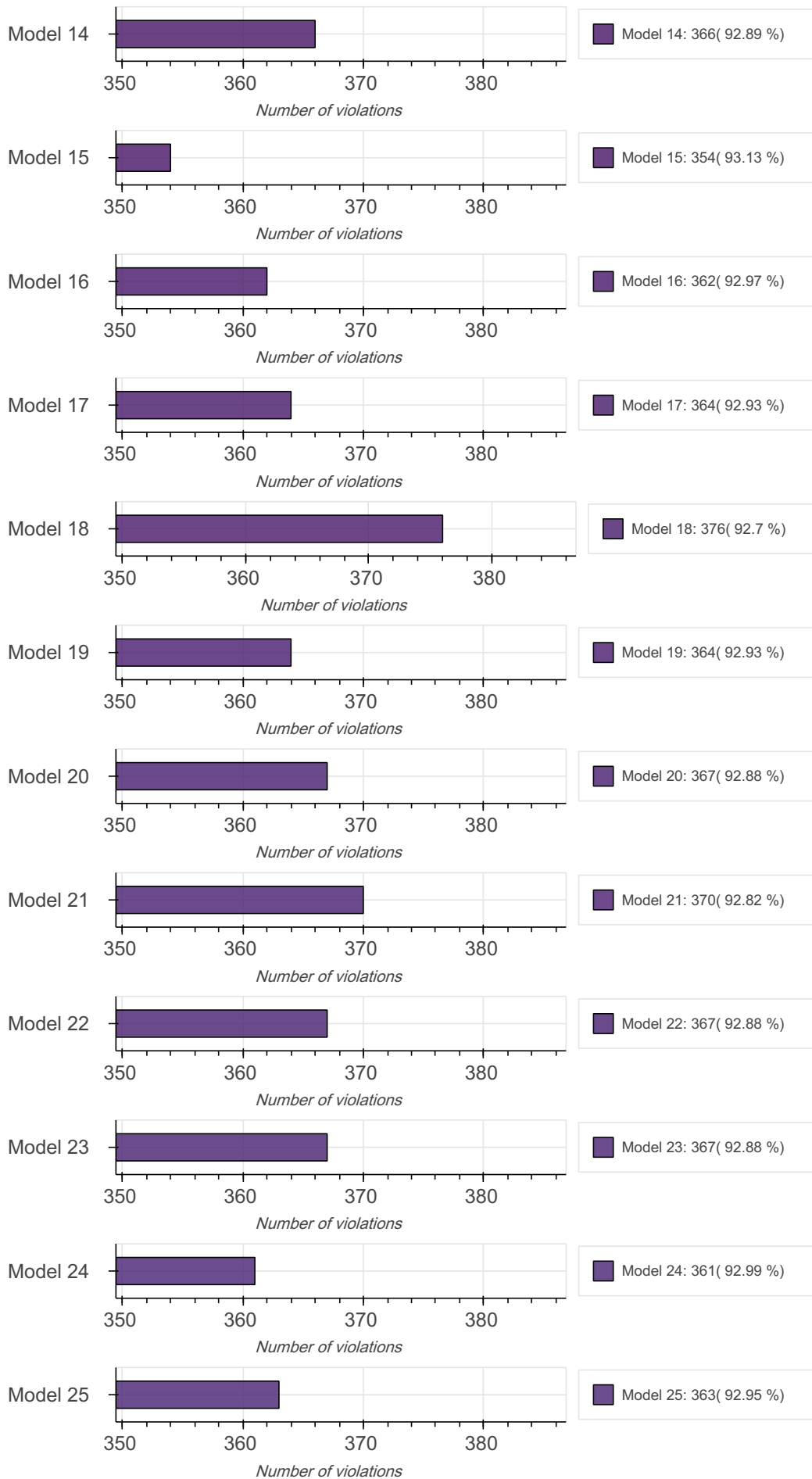
## Overall quality ?

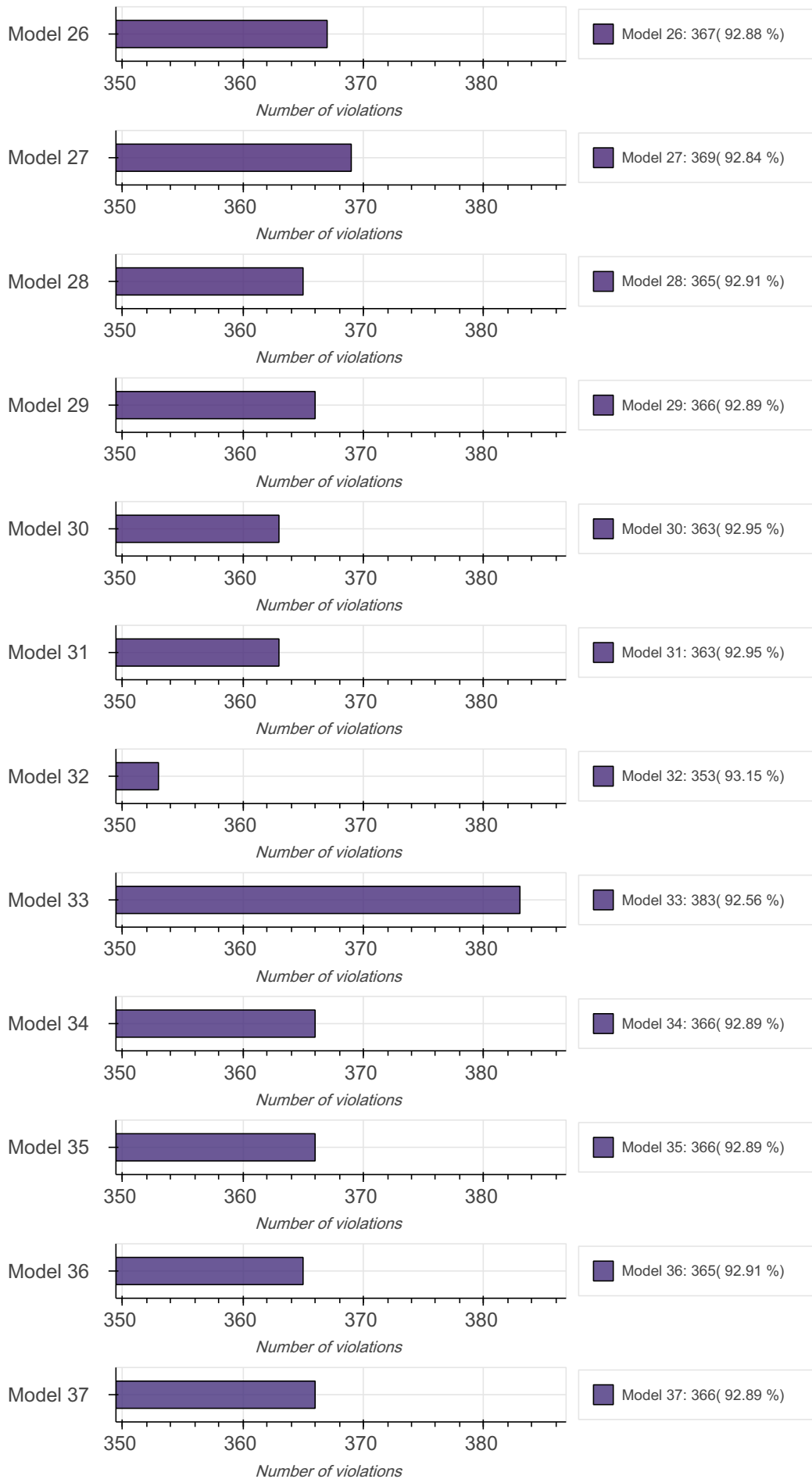
*This validation report contains model quality assessments for all structures, data quality assessment for SAS datasets and fit to model assessments for SAS datasets. Data quality and fit to model assessments for other datasets and model uncertainty are under development. Number of plots is limited to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

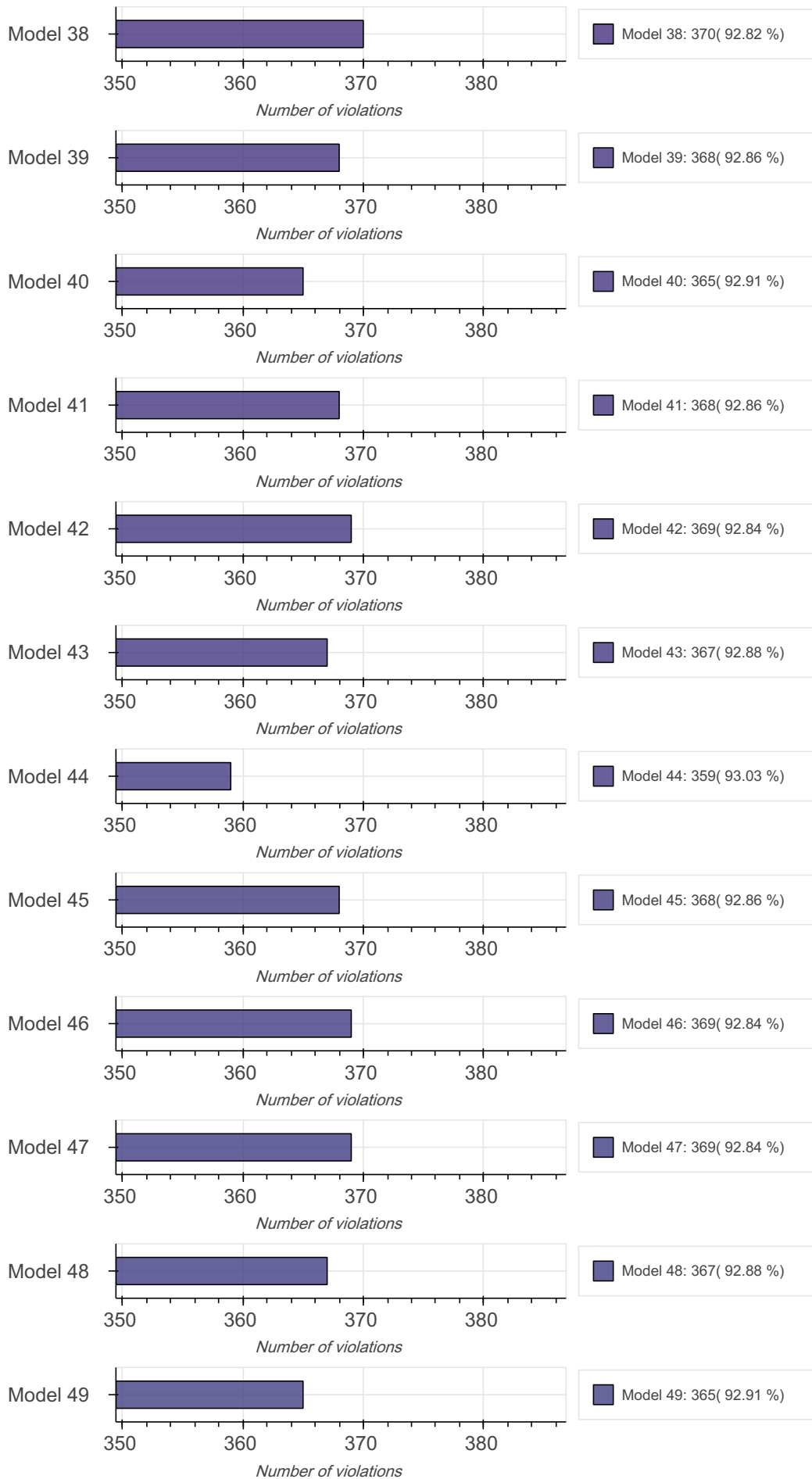
### Model Quality: Excluded Volume Analysis

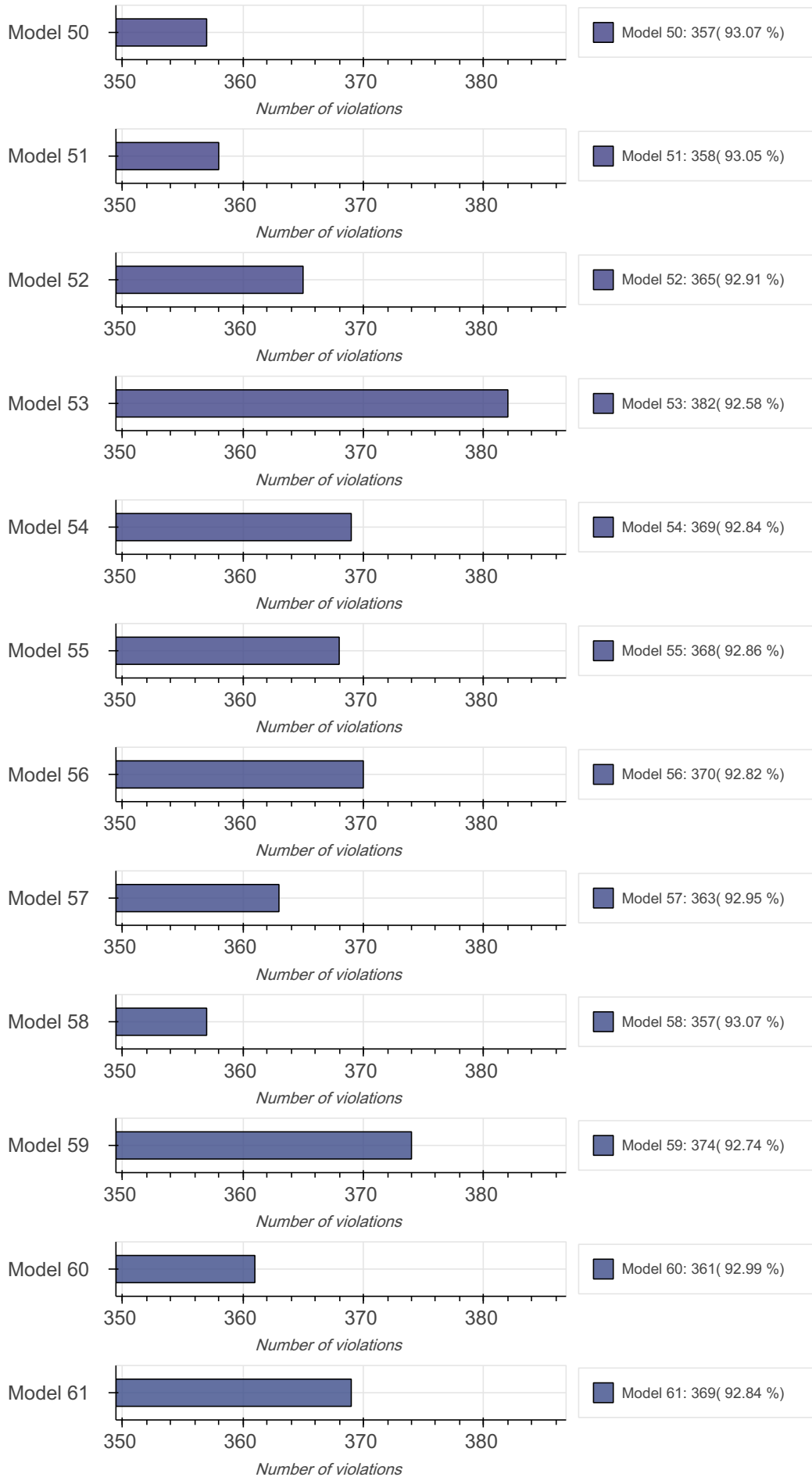


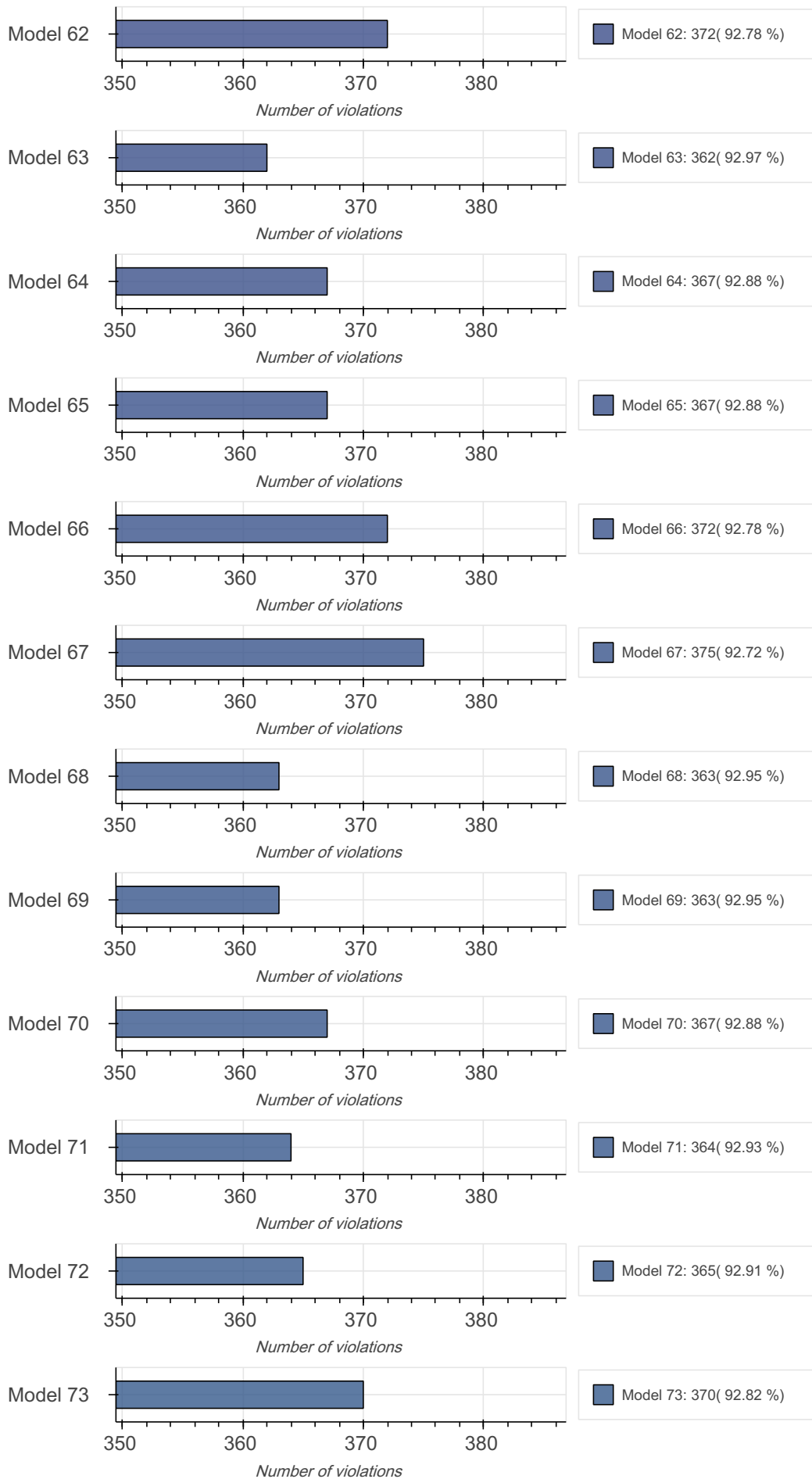


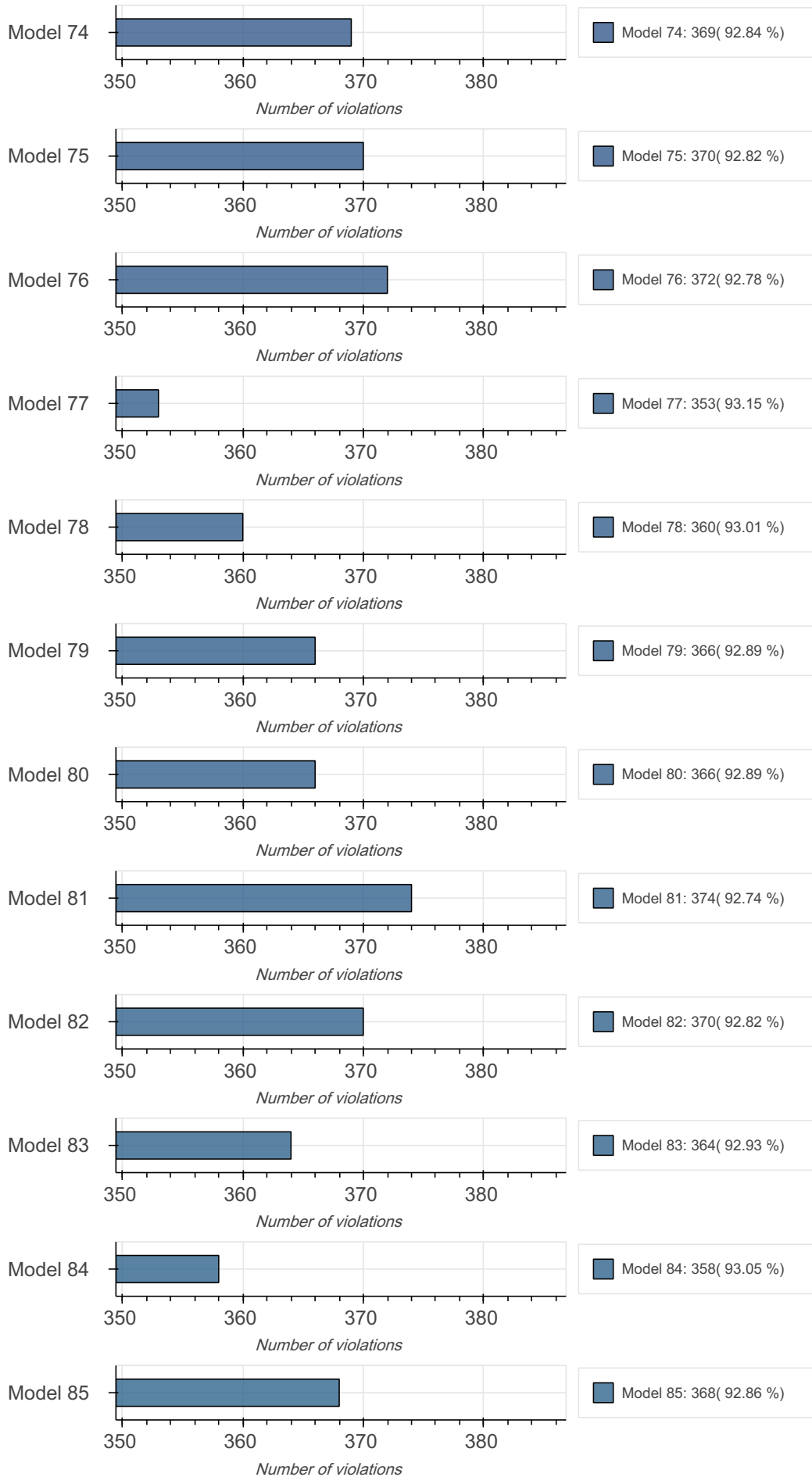




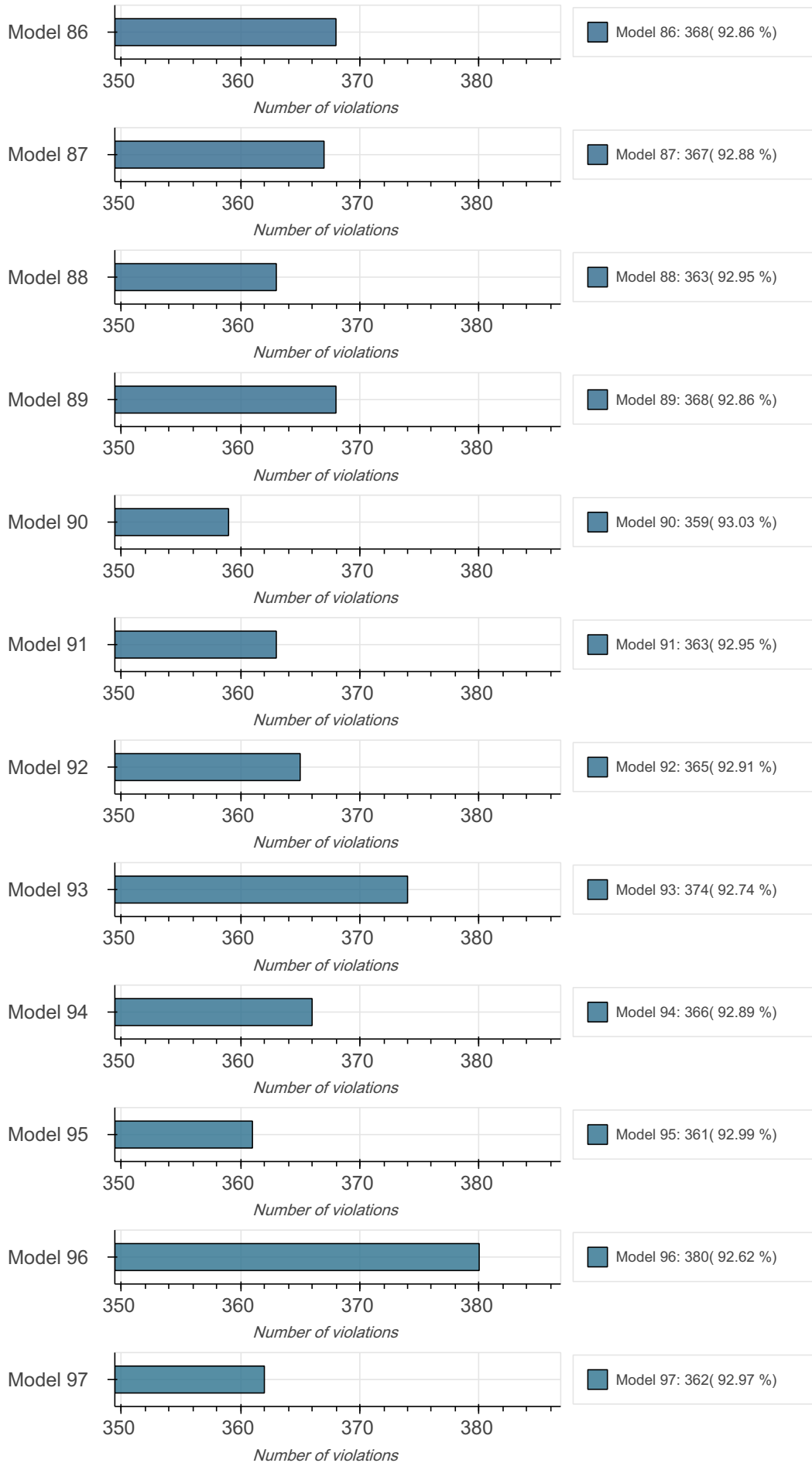


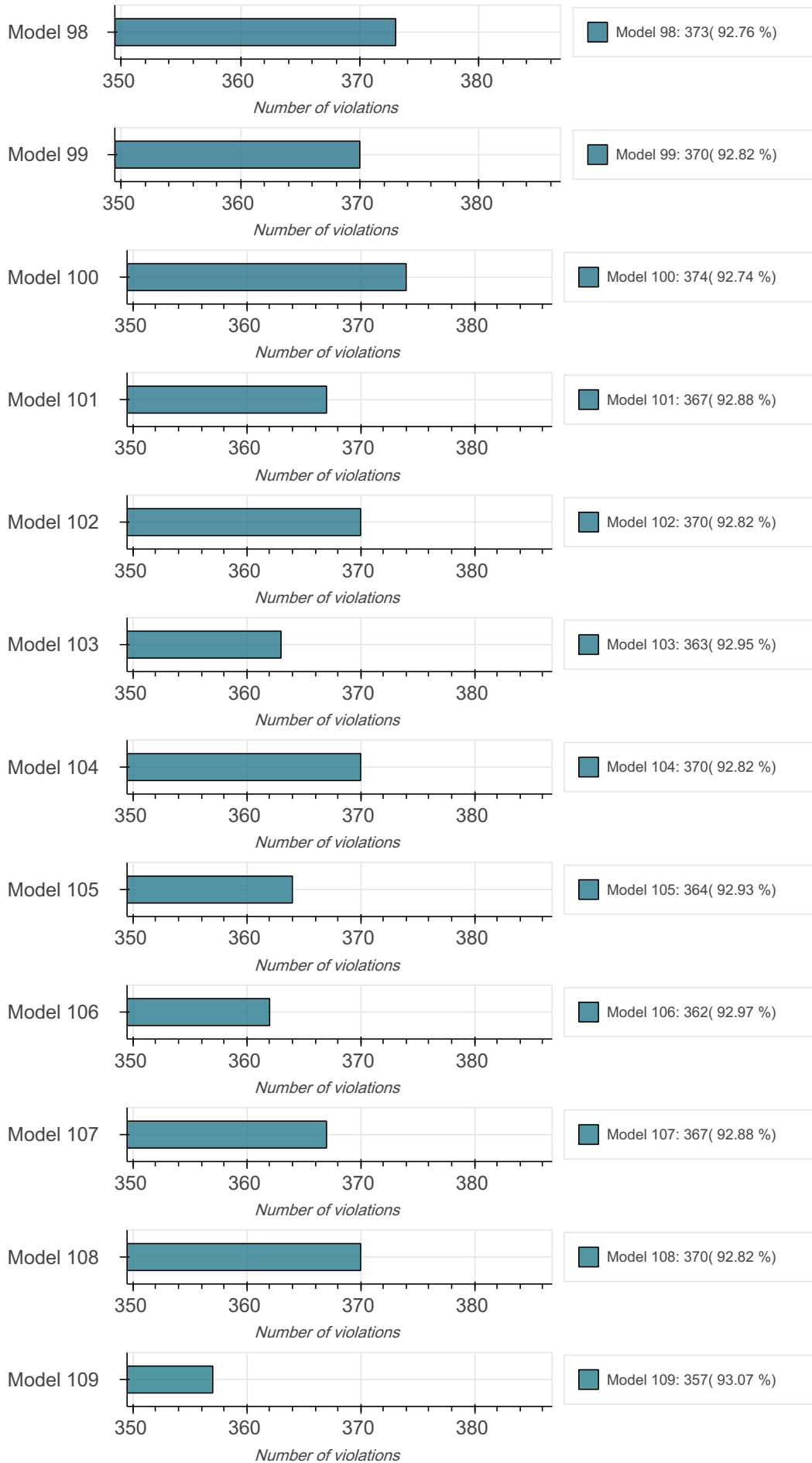


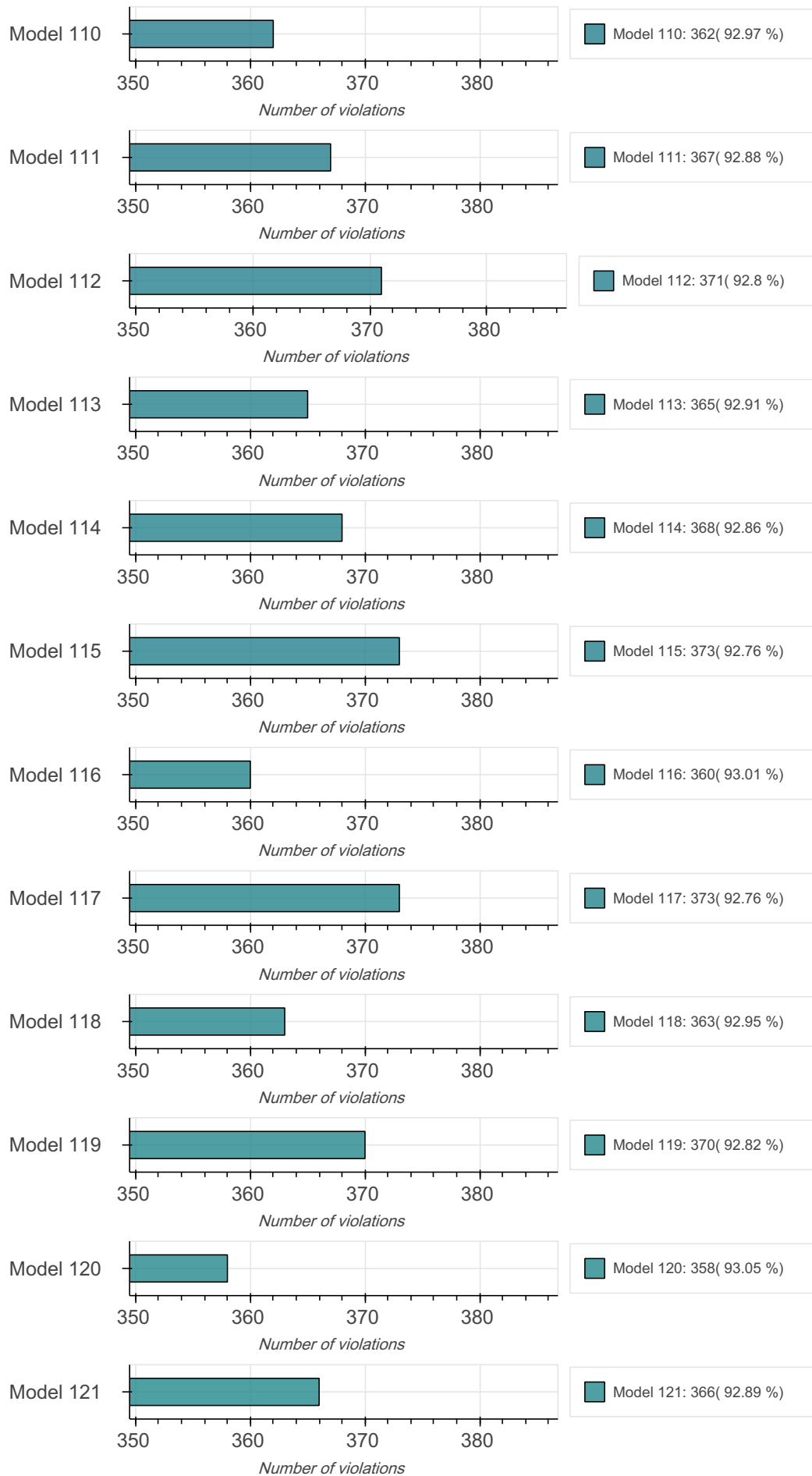


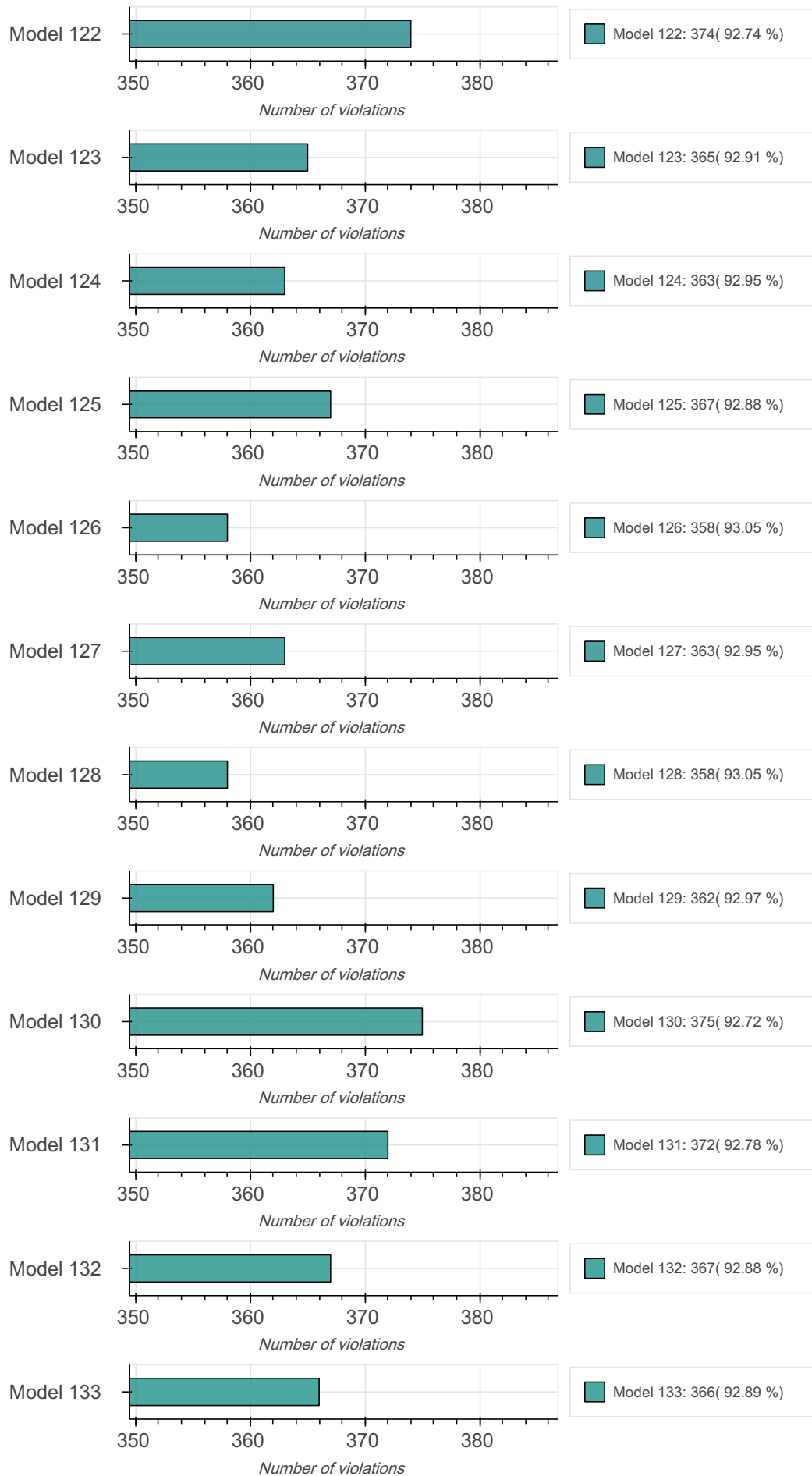






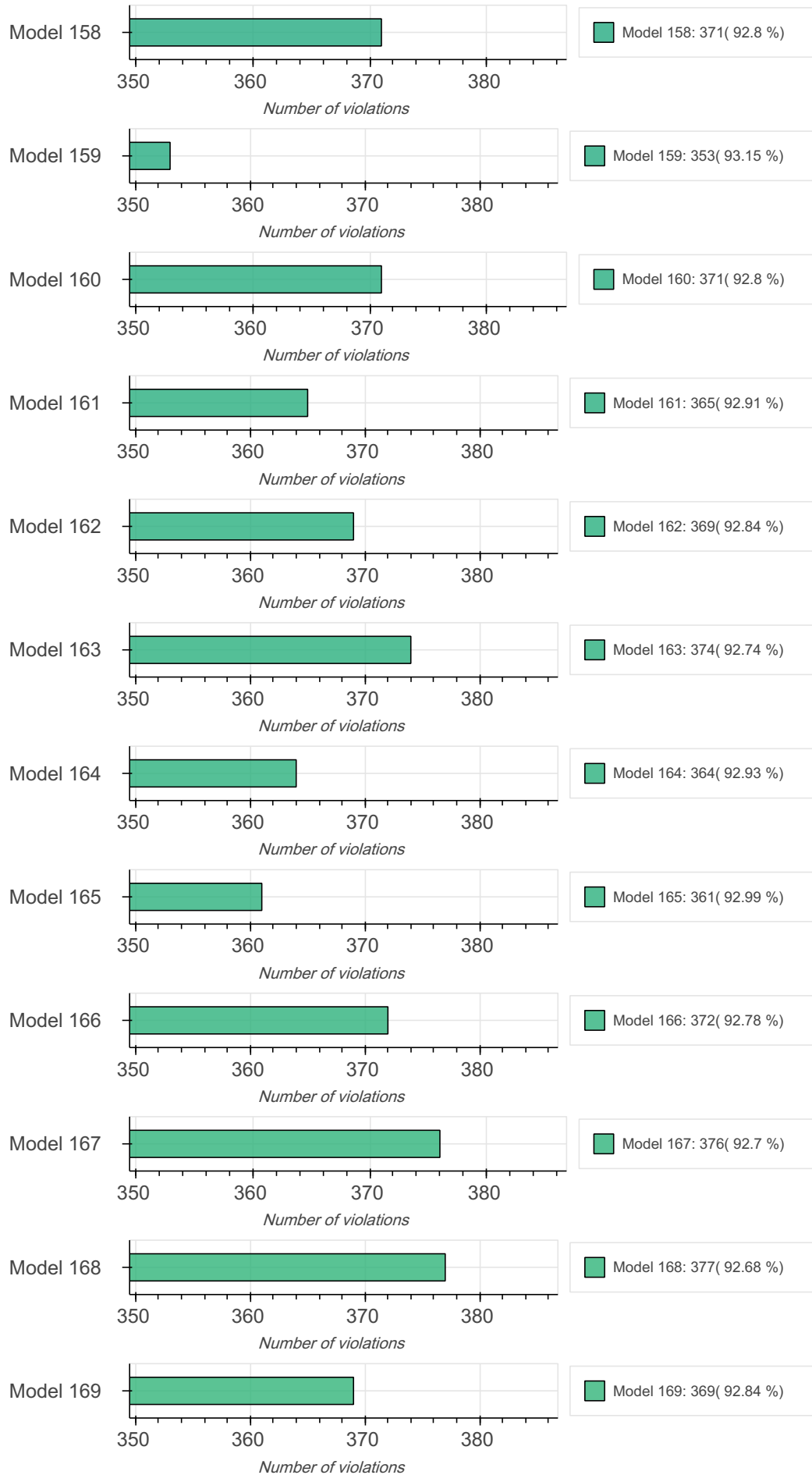


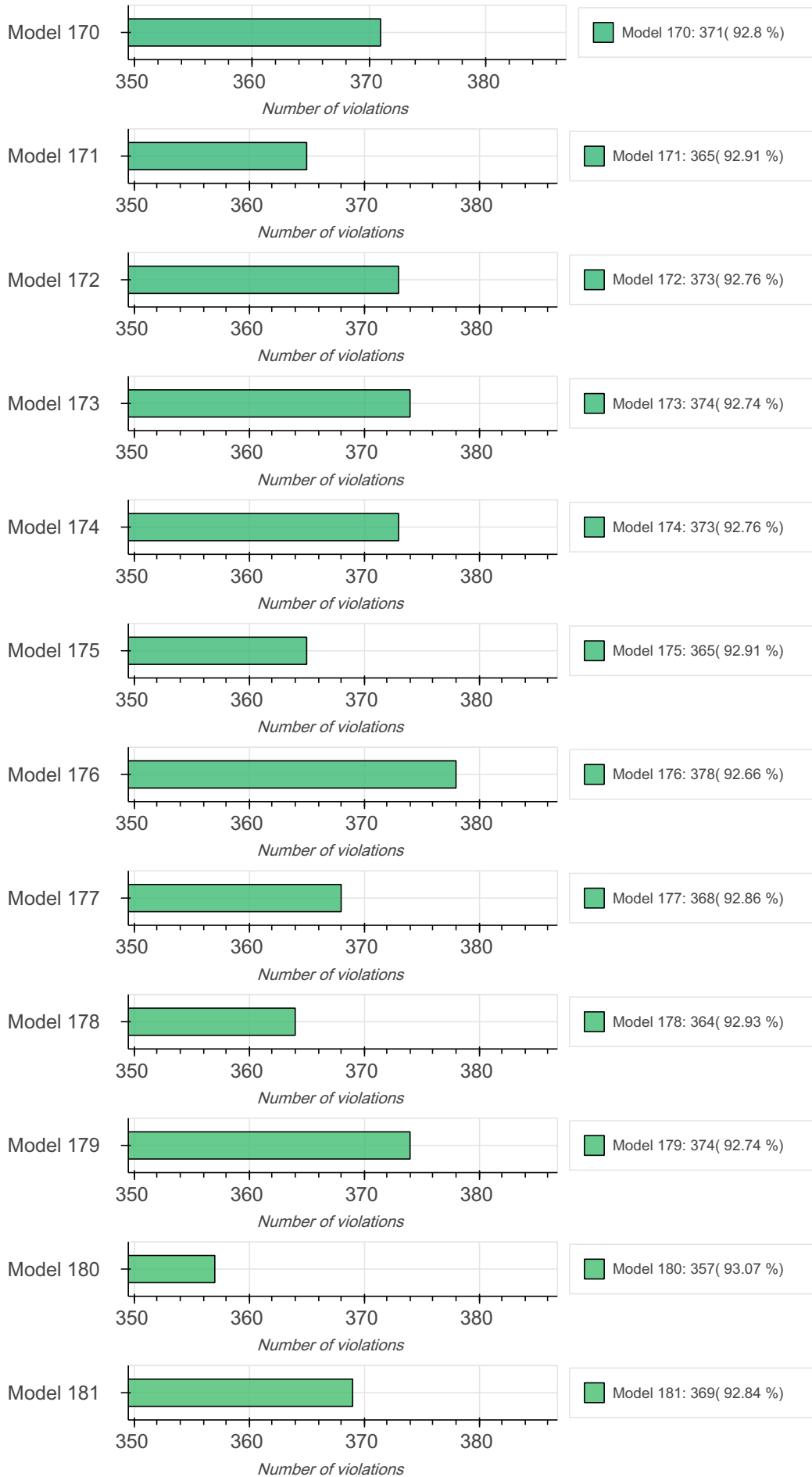




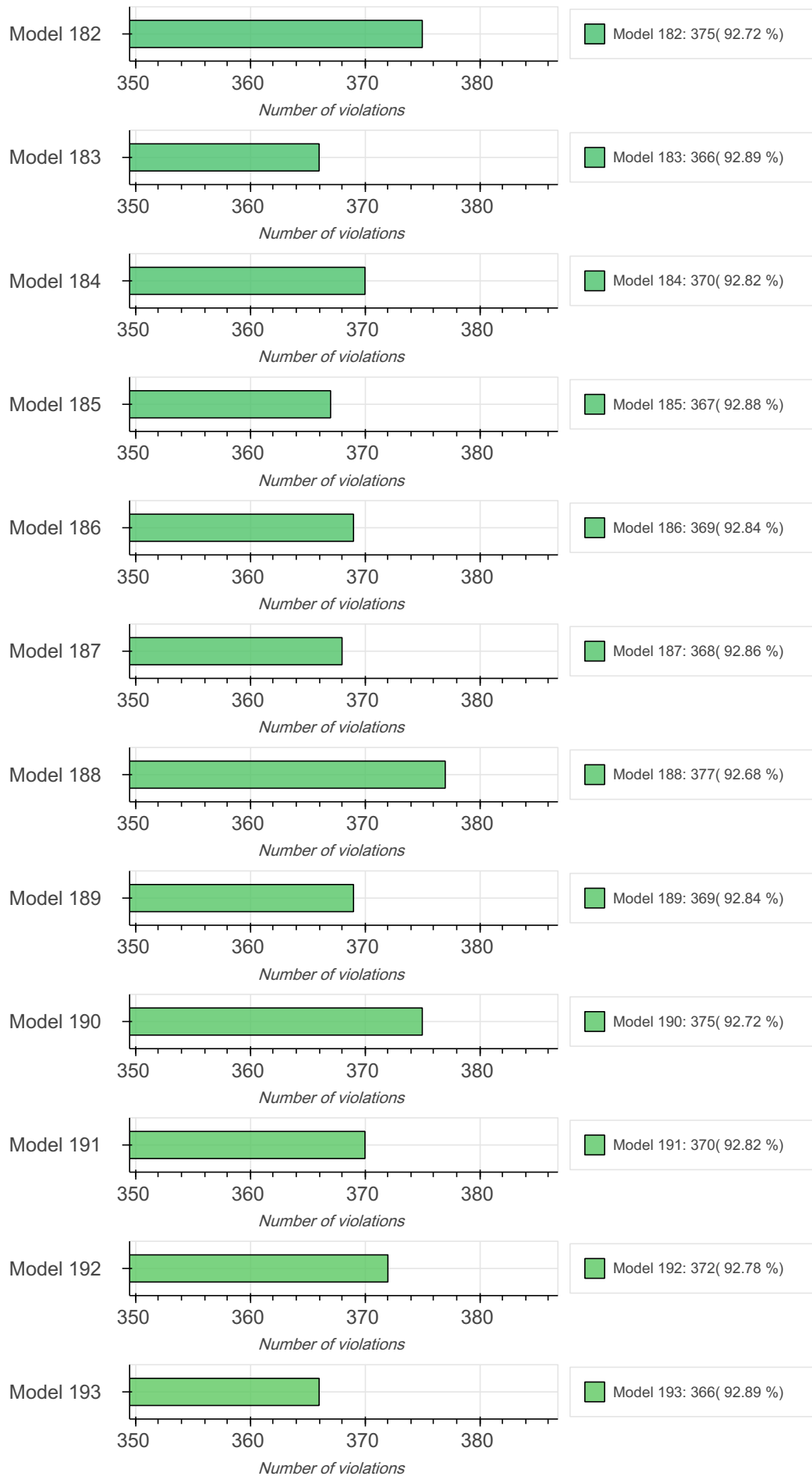


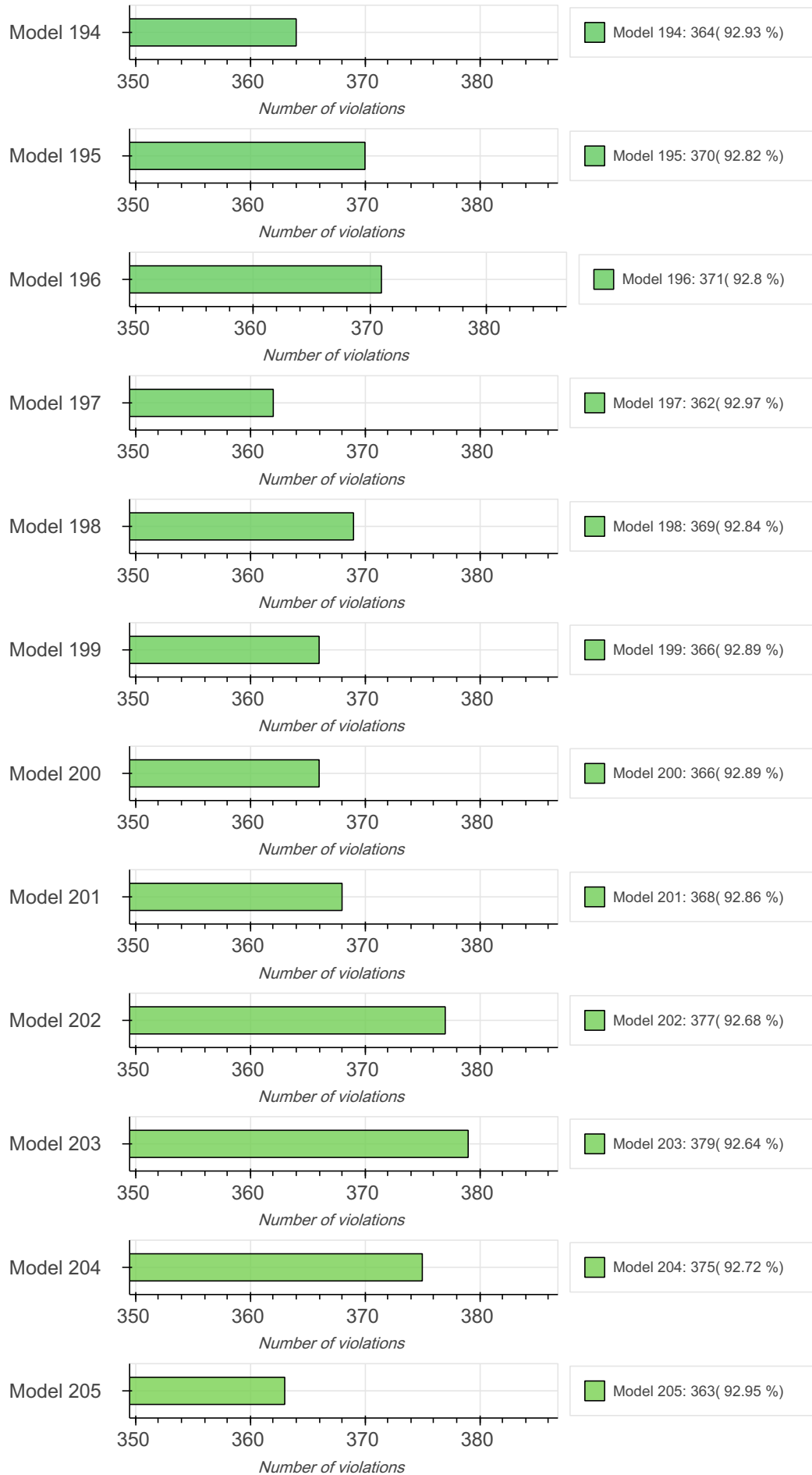


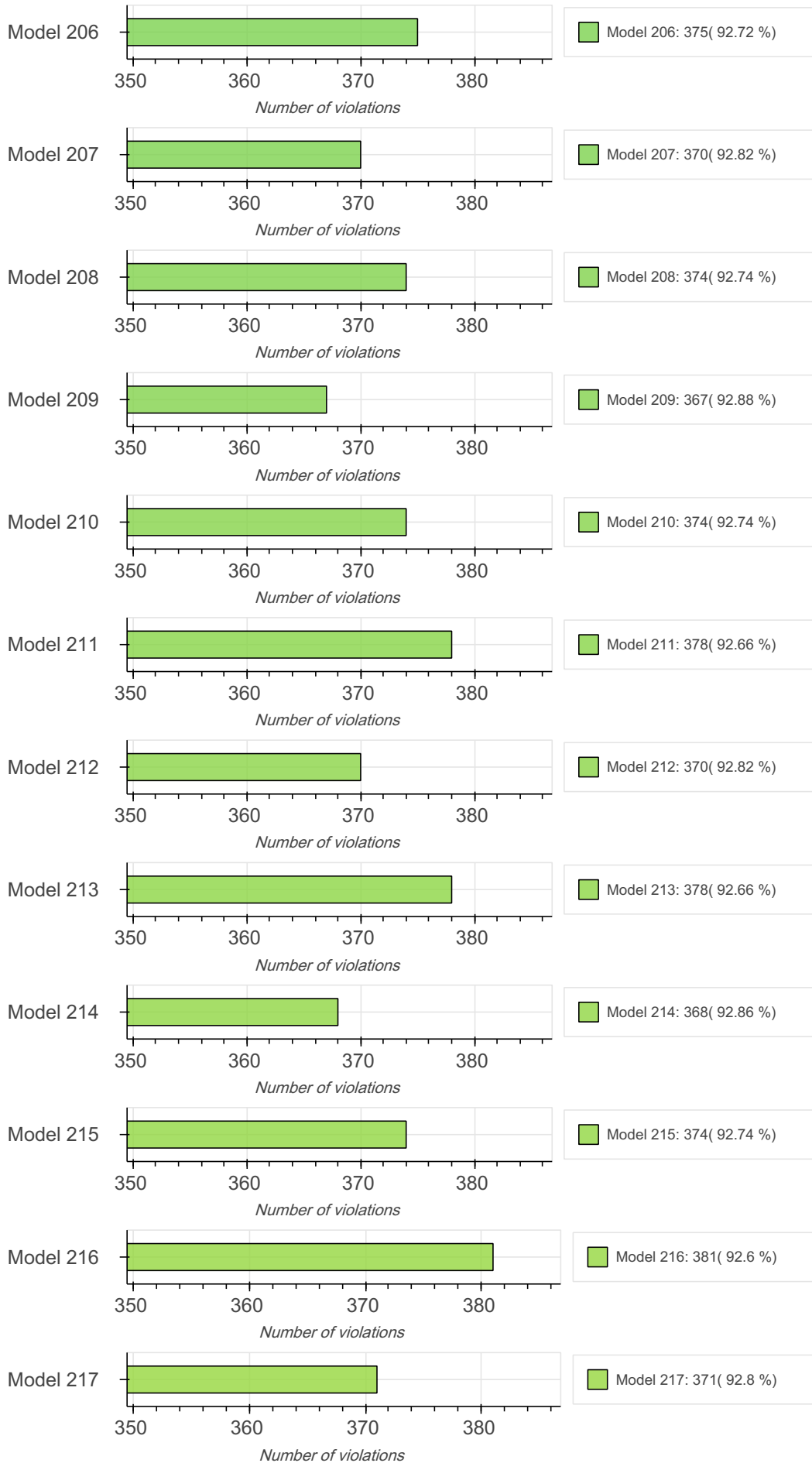


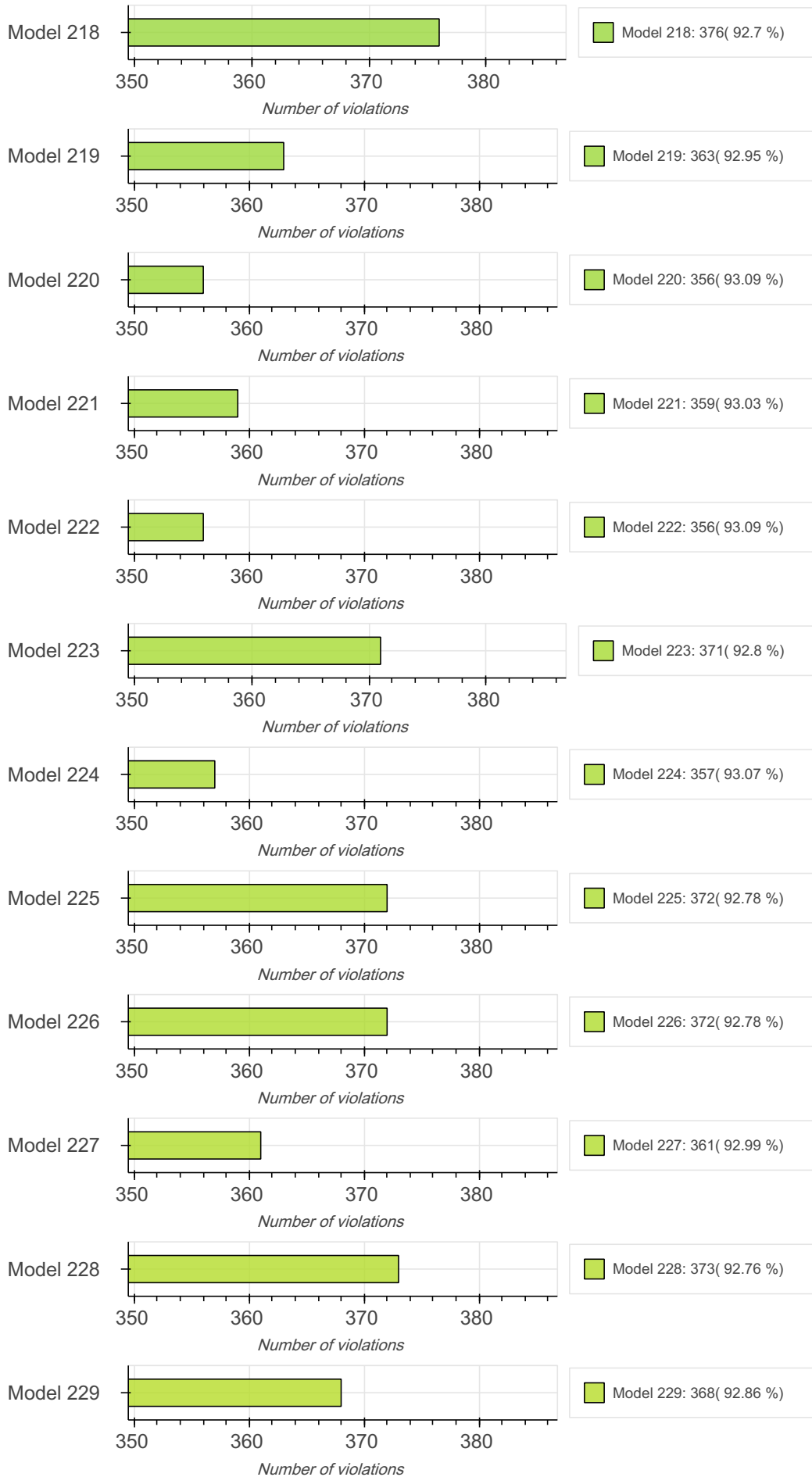


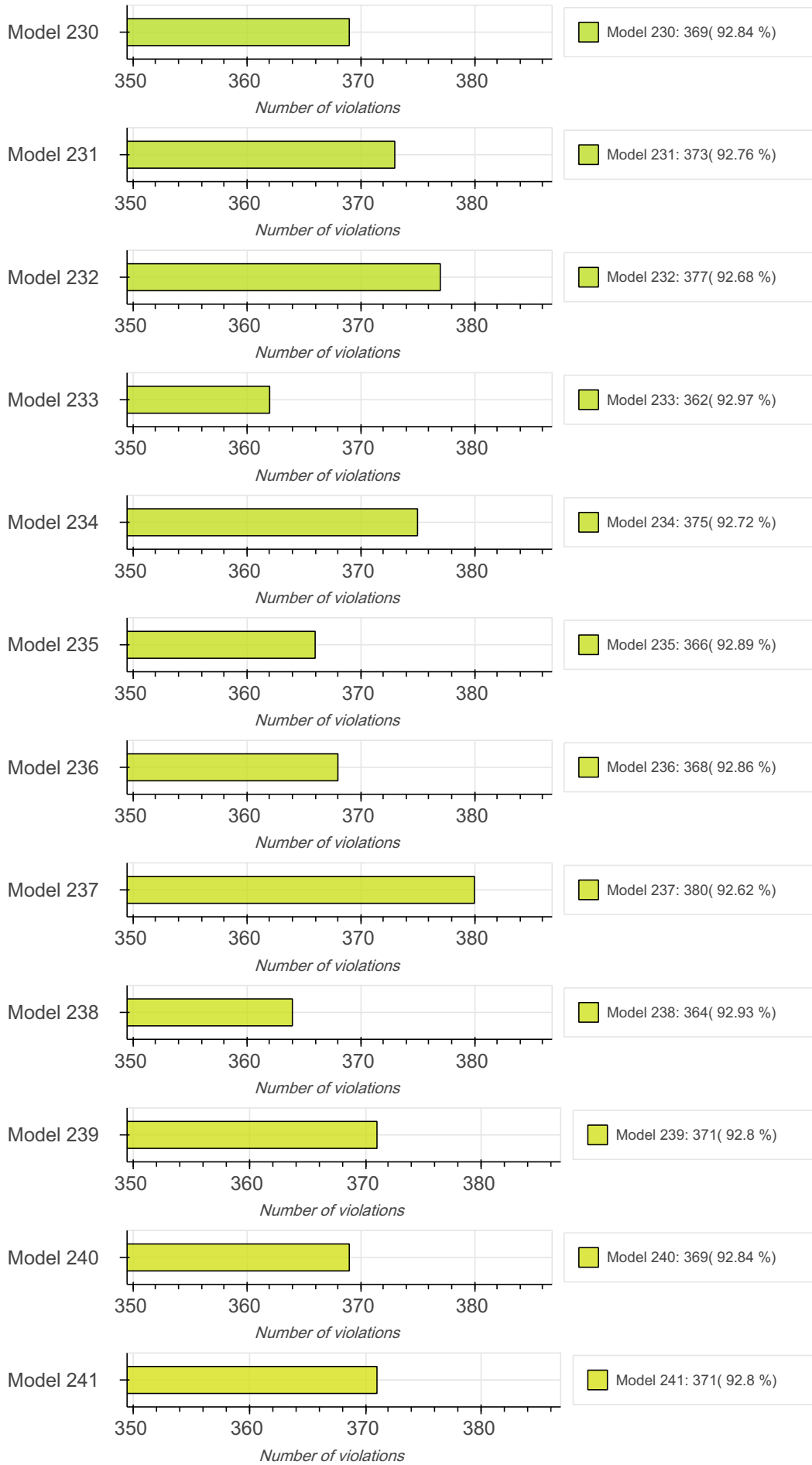


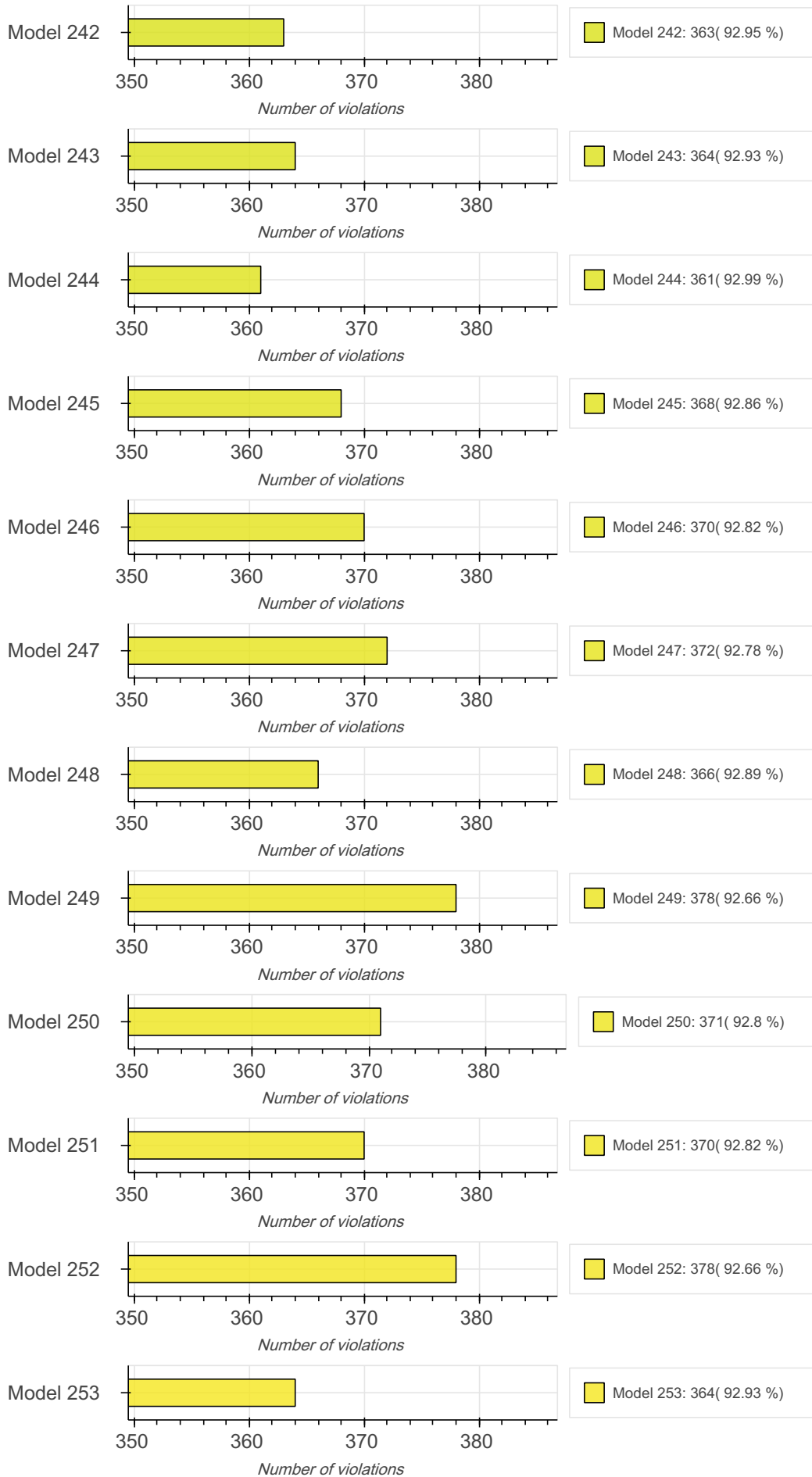














### Ensemble information ?

*This entry consists of 0 distinct ensemble(s).*

### Summary ?

*This entry consists of 1012 unique models, with 1 subunits in each model. A total of 1 datasets or restraints were used to build this entry. Each model is represented by 0 rigid bodies and 1 flexible or non-rigid units.*

### Entry composition ?

*There are 1012 unique types of models in this entry. These models are titled 734, 1345, 4361, 2557, 2876, 4740, 4720, 2112, 4117, 2818, 806, 3662, 775, 1690, 310, 3713, 380, 1042, 811, 3373, 1839, 4378, 4965, 268, 4158, 1840, 2046, 346, 991, 1808, 743, 4830, 4374, 3441, 500, 3375, 3771, 3696, 4721, 3340, 4835, 4018, 3276, 4970, 2785, 4560, 4504, 2387, 3147, 110, 445, 1439, 2469, 1868, 535, 4005, 1270, 1847, 4800, 4736, 2360, 3078, 2079, 3988, 3464, 1099, 1501, 4235, 2220, 4457, 189, 2743, 1051, 3283, 1731, 4871, 1261, 368, 436, 1906, 4829, 4412, 4543, 265, 190, 4277, 644, 207, 3998, 1993, 4900, 4267, 127, 1435, 641, 4234, 3039, 3125, 2935, 443, 1832, 1283, 1520, 4441, 1408, 2384, 2019, 1524, 1700, 3135, 2828, 2267, 603, 4058, 134, 2774, 707, 4204, 2301, 3448, 2450, 4223, 2522, 4588, 227, 3453, 4314, 3588, 4384, 4815, 2616, 3829, 1787, 2680, 3814, 425, 1912, 3406, 4902, 1687, 2584, 761, 4334, 3743, 626, 930, 551, 4709, 1508, 608, 1129, 4927, 1843, 4601, 4348, 3047, 676, 2266, 516, 1152, 534, 1827, 1713, 2322, 4500, 2342, 1174, 669, 2058, 963, 4755, 375, 4242, 4464, 402, 3096, 1970, 2171, 2798, 2059, 278, 438, 556, 1672, 557, 2795, 2779, 4222, 1030, 1606, 203, 3121, 1910, 4226, 1509, 4275, 537, 4976, 2903, 1426, 2759, 1119, 4276, 386, 261, 2564, 4255, 3182, 2098, 2701, 4647, 4354, 4822, 2668, 3794, 1602, 2816, 3670, 1401, 1573, 235, 2700, 4432, 3947, 4137, 3596, 1879, 1136, 1922, 4893, 3061, 4370, 3427, 92, 3973, 2432, 3888, 4573, 4055, 2140, 2958, 338, 3689, 3838, 4075, 4758, 1027, 1578, 3231, 911, 2762, 1529, 511, 4833, 638, 3849, 3789, 4913, 28, 2057, 250, 1496, 1308, 170, 3845, 3106, 4733, 1878, 1124, 3742, 3724, 4697, 2854, 1006, 4566, 4637, 2249, 3593, 1971, 1294, 2567, 2089, 1478, 1044, 3628, 711, 1272, 84, 894, 4658, 3936, 370, 514, 1902, 4610, 2523, 3472, 4243, 3224, 2270, 1287, 4086, 2352, 1953, 1, 2718, 3517, 417, 2945, 2060, 2122, 750, 2829, 270, 803, 104, 4741, 997, 2488, 3935, 27, 1897, 649, 3701, 4352, 4781, 206, 4080, 3623, 3101, 4713, 891, 3010, 1679, 741, 3497, 4784, 244, 1485, 3049, 3879, 3927, 720, 2441, 2981, 2283, 2494, 1482, 2864, 4404, 1816, 4317, 2241, 2853, 3607, 3188, 3123, 4727, 4381, 112, 4101, 4149, 2758, 2337, 1015, 1112, 993, 1456, 4918, 817, 45, 4132, 3055, 2041, 3258, 1500, 3250, 1125, 4076, 3199, 2510, 734, 4271, 2553, 623, 3925, 273, 2072, 4572, 4368, 2754, 777, 2054,*

398, 4609, 650, 3572, 617, 4841, 1994, 4641, 3228, 4278, 2027, 85, 3816, 3493, 3149, 1641, 4074, 2075, 3681, 3177, 343, 786, 4062, 3778, 3873, 68, 3076, 4456, 2227, 1281, 4199, 2537, 171, 3859, 4520, 1363, 1998, 3601, 2135, 319, 3941, 3708, 4423, 2612, 3730, 1156, 1423, 4185, 2275, 544, 3805, 642, 4541, 1680, 2064, 1977, 4813, 4326, 4301, 2219, 1209, 2043, 666, 3124, 2021, 1239, 54, 1567, 2923, 3733, 4775, 2245, 4943, 3521, 4405, 226, 4581, 1553, 549, 1267, 1759, 3297, 4759, 2392, 2656, 3491, 4522, 132, 2311, 2663, 1100, 910, 797, 52, 1020, 1373, 4325, 93, 4635, 4624, 2960, 3946, 3374, 4248, 4046, 2454, 4034, 1271, 3619, 3318, 3201, 3566, 2722, 4819, 1345, 4361, 2557, 2876, 4740, 4720, 2112, 4117, 2818, 806, 3662, 775, 1690, 310, 3713, 380, 1042, 811, 3373, 1839, 4378, 4965, 268, 4158, 1840, 2046, 346, 991, 1808, 743, 4830, 4374, 3441, 500, 3375, 3771, 3696, 4721, 3340, 4835, 4018, 3276, 4970, 2785, 4560, 4504, 2387, 3147, 110, 445, 1439, 2469, 1868, 535, 4005, 1270, 1847, 4800, 4736, 2360, 3078, 2079, 3988, 3464, 1099, 1501, 4235, 2220, 4457, 189, 2743, 1051, 3283, 1731, 4871, 1261, 368, 436, 1906, 4829, 4412, 4543, 265, 190, 4277, 644, 207, 3998, 1993, 4900, 4267, 127, 1435, 641, 4234, 3039, 3125, 2935, 443, 1832, 1283, 1520, 4441, 1408, 2384, 2019, 1524, 1700, 3135, 2828, 2267, 603, 4058, 134, 2774, 707, 4204, 2301, 3448, 2450, 4223, 2522, 4588, 227, 3453, 4314, 3588, 4384, 4815, 2616, 3829, 1787, 2680, 3814, 425, 1912, 3406, 4902, 1687, 2584, 761, 4334, 3743, 626, 930, 551, 4709, 1508, 608, 1129, 4927, 1843, 4601, 4348, 3047, 676, 2266, 516, 1152, 534, 1827, 1713, 2322, 4500, 2342, 1174, 669, 2058, 963, 4755, 375, 4242, 4464, 402, 3096, 1970, 2171, 2798, 2059, 278, 438, 556, 1672, 557, 2795, 2779, 4222, 1030, 1606, 203, 3121, 1910, 4226, 1509, 4275, 537, 4976, 2903, 1426, 2759, 1119, 4276, 386, 261, 2564, 4255, 3182, 2098, 2701, 4647, 4354, 4822, 2668, 3794, 1602, 2816, 3670, 1401, 1573, 235, 2700, 4432, 3947, 4137, 3596, 1879, 1136, 1922, 4893, 3061, 4370, 3427, 92, 3973, 2432, 3888, 4573, 4055, 2140, 2958, 338, 3689, 3838, 4075, 4758, 1027, 1578, 3231, 911, 2762, 1529, 511, 4833, 638, 3849, 3789, 4913, 28, 2057, 250, 1496, 1308, 170, 3845, 3106, 4733, 1878, 1124, 3742, 3724, 4697, 2854, 1006, 4566, 4637, 2249, 3593, 1971, 1294, 2567, 2089, 1478, 1044, 3628, 711, 1272, 84, 894, 4658, 3936, 370, 514, 1902, 4610, 2523, 3472, 4243, 3224, 2270, 1287, 4086, 2352, 1953, 1, 2718, 3517, 417, 2945, 2060, 2122, 750, 2829, 270, 803, 104, 4741, 997, 2488, 3935, 27, 1897, 649, 3701, 4352, 4781, 206, 4080, 3623, 3101, 4713, 891, 3010, 1679, 741, 3497, 4784, 244, 1485, 3049, 3879, 3927, 720, 2441, 2981, 2283, 2494, 1482, 2864, 4404, 1816, 4317, 2241, 2853, 3607, 3188, 3123, 4727, 4381, 112, 4101, 4149, 2758, 2337, 1015, 1112, 993, 1456, 4918, 817, 45, 4132, 3055, 2041, 3258, 1500, 3250, 1125, 4076, 3199, 2510, 734, 4271, 2553, 623, 3925, 273, 2072, 4572, 4368, 2754, 777, 2054, 398, 4609, 650, 3572, 617, 4841, 1994, 4641, 3228, 4278, 2027, 85, 3816, 3493, 3149, 1641, 4074, 2075, 3681, 3177, 343, 786, 4062, 3778, 3873, 68, 3076, 4456, 2227, 1281, 4199, 2537, 171, 3859, 4520, 1363, 1998, 3601, 2135, 319, 3941, 3708, 4423, 2612, 3730, 1156, 1423, 4185, 2275, 544, 3805, 642, 4541, 1680, 2064, 1977, 4813, 4326, 4301, 2219, 1209, 2043, 666, 3124, 2021, 1239, 54, 1567, 2923, 3733, 4775, 2245, 4943, 3521, 4405, 226, 4581, 1553, 549, 1267, 1759, 3297, 4759, 2392, 2656, 3491, 4522, 132, 2311, 2663, 1100, 910, 797, 52, 1020, 1373, 4325, 93, 4635, 4624, 2960, 3946, 3374, 4248, 4046, 2454, 4034, 1271, 3619, 3318, 3201, 3566, 2722 respectively.

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	1	1	chr2L_60-161	A	A	103
2	1	1	chr2L_60-161	A	A	103
3	1	1	chr2L_60-161	A	A	103
4	1	1	chr2L_60-161	A	A	103
5	1	1	chr2L_60-161	A	A	103
6	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	1	1	chr2L_60-161	A	A	103
8	1	1	chr2L_60-161	A	A	103
9	1	1	chr2L_60-161	A	A	103
10	1	1	chr2L_60-161	A	A	103
11	1	1	chr2L_60-161	A	A	103
12	1	1	chr2L_60-161	A	A	103
13	1	1	chr2L_60-161	A	A	103
14	1	1	chr2L_60-161	A	A	103
15	1	1	chr2L_60-161	A	A	103
16	1	1	chr2L_60-161	A	A	103
17	1	1	chr2L_60-161	A	A	103
18	1	1	chr2L_60-161	A	A	103
19	1	1	chr2L_60-161	A	A	103
20	1	1	chr2L_60-161	A	A	103
21	1	1	chr2L_60-161	A	A	103
22	1	1	chr2L_60-161	A	A	103
23	1	1	chr2L_60-161	A	A	103
24	1	1	chr2L_60-161	A	A	103
25	1	1	chr2L_60-161	A	A	103
26	1	1	chr2L_60-161	A	A	103
27	1	1	chr2L_60-161	A	A	103
28	1	1	chr2L_60-161	A	A	103
29	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
30	1	1	chr2L_60-161	A	A	103
31	1	1	chr2L_60-161	A	A	103
32	1	1	chr2L_60-161	A	A	103
33	1	1	chr2L_60-161	A	A	103
34	1	1	chr2L_60-161	A	A	103
35	1	1	chr2L_60-161	A	A	103
36	1	1	chr2L_60-161	A	A	103
37	1	1	chr2L_60-161	A	A	103
38	1	1	chr2L_60-161	A	A	103
39	1	1	chr2L_60-161	A	A	103
40	1	1	chr2L_60-161	A	A	103
41	1	1	chr2L_60-161	A	A	103
42	1	1	chr2L_60-161	A	A	103
43	1	1	chr2L_60-161	A	A	103
44	1	1	chr2L_60-161	A	A	103
45	1	1	chr2L_60-161	A	A	103
46	1	1	chr2L_60-161	A	A	103
47	1	1	chr2L_60-161	A	A	103
48	1	1	chr2L_60-161	A	A	103
49	1	1	chr2L_60-161	A	A	103
50	1	1	chr2L_60-161	A	A	103
51	1	1	chr2L_60-161	A	A	103
52	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
53	1	1	chr2L_60-161	A	A	103
54	1	1	chr2L_60-161	A	A	103
55	1	1	chr2L_60-161	A	A	103
56	1	1	chr2L_60-161	A	A	103
57	1	1	chr2L_60-161	A	A	103
58	1	1	chr2L_60-161	A	A	103
59	1	1	chr2L_60-161	A	A	103
60	1	1	chr2L_60-161	A	A	103
61	1	1	chr2L_60-161	A	A	103
62	1	1	chr2L_60-161	A	A	103
63	1	1	chr2L_60-161	A	A	103
64	1	1	chr2L_60-161	A	A	103
65	1	1	chr2L_60-161	A	A	103
66	1	1	chr2L_60-161	A	A	103
67	1	1	chr2L_60-161	A	A	103
68	1	1	chr2L_60-161	A	A	103
69	1	1	chr2L_60-161	A	A	103
70	1	1	chr2L_60-161	A	A	103
71	1	1	chr2L_60-161	A	A	103
72	1	1	chr2L_60-161	A	A	103
73	1	1	chr2L_60-161	A	A	103
74	1	1	chr2L_60-161	A	A	103
75	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
76	1	1	chr2L_60-161	A	A	103
77	1	1	chr2L_60-161	A	A	103
78	1	1	chr2L_60-161	A	A	103
79	1	1	chr2L_60-161	A	A	103
80	1	1	chr2L_60-161	A	A	103
81	1	1	chr2L_60-161	A	A	103
82	1	1	chr2L_60-161	A	A	103
83	1	1	chr2L_60-161	A	A	103
84	1	1	chr2L_60-161	A	A	103
85	1	1	chr2L_60-161	A	A	103
86	1	1	chr2L_60-161	A	A	103
87	1	1	chr2L_60-161	A	A	103
88	1	1	chr2L_60-161	A	A	103
89	1	1	chr2L_60-161	A	A	103
90	1	1	chr2L_60-161	A	A	103
91	1	1	chr2L_60-161	A	A	103
92	1	1	chr2L_60-161	A	A	103
93	1	1	chr2L_60-161	A	A	103
94	1	1	chr2L_60-161	A	A	103
95	1	1	chr2L_60-161	A	A	103
96	1	1	chr2L_60-161	A	A	103
97	1	1	chr2L_60-161	A	A	103
98	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
99	1	1	chr2L_60-161	A	A	103
100	1	1	chr2L_60-161	A	A	103
101	1	1	chr2L_60-161	A	A	103
102	1	1	chr2L_60-161	A	A	103
103	1	1	chr2L_60-161	A	A	103
104	1	1	chr2L_60-161	A	A	103
105	1	1	chr2L_60-161	A	A	103
106	1	1	chr2L_60-161	A	A	103
107	1	1	chr2L_60-161	A	A	103
108	1	1	chr2L_60-161	A	A	103
109	1	1	chr2L_60-161	A	A	103
110	1	1	chr2L_60-161	A	A	103
111	1	1	chr2L_60-161	A	A	103
112	1	1	chr2L_60-161	A	A	103
113	1	1	chr2L_60-161	A	A	103
114	1	1	chr2L_60-161	A	A	103
115	1	1	chr2L_60-161	A	A	103
116	1	1	chr2L_60-161	A	A	103
117	1	1	chr2L_60-161	A	A	103
118	1	1	chr2L_60-161	A	A	103
119	1	1	chr2L_60-161	A	A	103
120	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
121	1	1	chr2L_60-161	A	A	103
122	1	1	chr2L_60-161	A	A	103
123	1	1	chr2L_60-161	A	A	103
124	1	1	chr2L_60-161	A	A	103
125	1	1	chr2L_60-161	A	A	103
126	1	1	chr2L_60-161	A	A	103
127	1	1	chr2L_60-161	A	A	103
128	1	1	chr2L_60-161	A	A	103
129	1	1	chr2L_60-161	A	A	103
130	1	1	chr2L_60-161	A	A	103
131	1	1	chr2L_60-161	A	A	103
132	1	1	chr2L_60-161	A	A	103
133	1	1	chr2L_60-161	A	A	103
134	1	1	chr2L_60-161	A	A	103
135	1	1	chr2L_60-161	A	A	103
136	1	1	chr2L_60-161	A	A	103
137	1	1	chr2L_60-161	A	A	103
138	1	1	chr2L_60-161	A	A	103
139	1	1	chr2L_60-161	A	A	103
140	1	1	chr2L_60-161	A	A	103
141	1	1	chr2L_60-161	A	A	103
142	1	1	chr2L_60-161	A	A	103
143	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
144	1	1	chr2L_60-161	A	A	103
145	1	1	chr2L_60-161	A	A	103
146	1	1	chr2L_60-161	A	A	103
147	1	1	chr2L_60-161	A	A	103
148	1	1	chr2L_60-161	A	A	103
149	1	1	chr2L_60-161	A	A	103
150	1	1	chr2L_60-161	A	A	103
151	1	1	chr2L_60-161	A	A	103
152	1	1	chr2L_60-161	A	A	103
153	1	1	chr2L_60-161	A	A	103
154	1	1	chr2L_60-161	A	A	103
155	1	1	chr2L_60-161	A	A	103
156	1	1	chr2L_60-161	A	A	103
157	1	1	chr2L_60-161	A	A	103
158	1	1	chr2L_60-161	A	A	103
159	1	1	chr2L_60-161	A	A	103
160	1	1	chr2L_60-161	A	A	103
161	1	1	chr2L_60-161	A	A	103
162	1	1	chr2L_60-161	A	A	103
163	1	1	chr2L_60-161	A	A	103
164	1	1	chr2L_60-161	A	A	103
165	1	1	chr2L_60-161	A	A	103
166	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
167	1	1	chr2L_60-161	A	A	103
168	1	1	chr2L_60-161	A	A	103
169	1	1	chr2L_60-161	A	A	103
170	1	1	chr2L_60-161	A	A	103
171	1	1	chr2L_60-161	A	A	103
172	1	1	chr2L_60-161	A	A	103
173	1	1	chr2L_60-161	A	A	103
174	1	1	chr2L_60-161	A	A	103
175	1	1	chr2L_60-161	A	A	103
176	1	1	chr2L_60-161	A	A	103
177	1	1	chr2L_60-161	A	A	103
178	1	1	chr2L_60-161	A	A	103
179	1	1	chr2L_60-161	A	A	103
180	1	1	chr2L_60-161	A	A	103
181	1	1	chr2L_60-161	A	A	103
182	1	1	chr2L_60-161	A	A	103
183	1	1	chr2L_60-161	A	A	103
184	1	1	chr2L_60-161	A	A	103
185	1	1	chr2L_60-161	A	A	103
186	1	1	chr2L_60-161	A	A	103
187	1	1	chr2L_60-161	A	A	103
188	1	1	chr2L_60-161	A	A	103
189	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
190	1	1	chr2L_60-161	A	A	103
191	1	1	chr2L_60-161	A	A	103
192	1	1	chr2L_60-161	A	A	103
193	1	1	chr2L_60-161	A	A	103
194	1	1	chr2L_60-161	A	A	103
195	1	1	chr2L_60-161	A	A	103
196	1	1	chr2L_60-161	A	A	103
197	1	1	chr2L_60-161	A	A	103
198	1	1	chr2L_60-161	A	A	103
199	1	1	chr2L_60-161	A	A	103
200	1	1	chr2L_60-161	A	A	103
201	1	1	chr2L_60-161	A	A	103
202	1	1	chr2L_60-161	A	A	103
203	1	1	chr2L_60-161	A	A	103
204	1	1	chr2L_60-161	A	A	103
205	1	1	chr2L_60-161	A	A	103
206	1	1	chr2L_60-161	A	A	103
207	1	1	chr2L_60-161	A	A	103
208	1	1	chr2L_60-161	A	A	103
209	1	1	chr2L_60-161	A	A	103
210	1	1	chr2L_60-161	A	A	103
211	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
212	1	1	chr2L_60-161	A	A	103
213	1	1	chr2L_60-161	A	A	103
214	1	1	chr2L_60-161	A	A	103
215	1	1	chr2L_60-161	A	A	103
216	1	1	chr2L_60-161	A	A	103
217	1	1	chr2L_60-161	A	A	103
218	1	1	chr2L_60-161	A	A	103
219	1	1	chr2L_60-161	A	A	103
220	1	1	chr2L_60-161	A	A	103
221	1	1	chr2L_60-161	A	A	103
222	1	1	chr2L_60-161	A	A	103
223	1	1	chr2L_60-161	A	A	103
224	1	1	chr2L_60-161	A	A	103
225	1	1	chr2L_60-161	A	A	103
226	1	1	chr2L_60-161	A	A	103
227	1	1	chr2L_60-161	A	A	103
228	1	1	chr2L_60-161	A	A	103
229	1	1	chr2L_60-161	A	A	103
230	1	1	chr2L_60-161	A	A	103
231	1	1	chr2L_60-161	A	A	103
232	1	1	chr2L_60-161	A	A	103
233	1	1	chr2L_60-161	A	A	103
234	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
235	1	1	chr2L_60-161	A	A	103
236	1	1	chr2L_60-161	A	A	103
237	1	1	chr2L_60-161	A	A	103
238	1	1	chr2L_60-161	A	A	103
239	1	1	chr2L_60-161	A	A	103
240	1	1	chr2L_60-161	A	A	103
241	1	1	chr2L_60-161	A	A	103
242	1	1	chr2L_60-161	A	A	103
243	1	1	chr2L_60-161	A	A	103
244	1	1	chr2L_60-161	A	A	103
245	1	1	chr2L_60-161	A	A	103
246	1	1	chr2L_60-161	A	A	103
247	1	1	chr2L_60-161	A	A	103
248	1	1	chr2L_60-161	A	A	103
249	1	1	chr2L_60-161	A	A	103
250	1	1	chr2L_60-161	A	A	103
251	1	1	chr2L_60-161	A	A	103
252	1	1	chr2L_60-161	A	A	103
253	1	1	chr2L_60-161	A	A	103
254	1	1	chr2L_60-161	A	A	103
255	1	1	chr2L_60-161	A	A	103
256	1	1	chr2L_60-161	A	A	103
257	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
258	1	1	chr2L_60-161	A	A	103
259	1	1	chr2L_60-161	A	A	103
260	1	1	chr2L_60-161	A	A	103
261	1	1	chr2L_60-161	A	A	103
262	1	1	chr2L_60-161	A	A	103
263	1	1	chr2L_60-161	A	A	103
264	1	1	chr2L_60-161	A	A	103
265	1	1	chr2L_60-161	A	A	103
266	1	1	chr2L_60-161	A	A	103
267	1	1	chr2L_60-161	A	A	103
268	1	1	chr2L_60-161	A	A	103
269	1	1	chr2L_60-161	A	A	103
270	1	1	chr2L_60-161	A	A	103
271	1	1	chr2L_60-161	A	A	103
272	1	1	chr2L_60-161	A	A	103
273	1	1	chr2L_60-161	A	A	103
274	1	1	chr2L_60-161	A	A	103
275	1	1	chr2L_60-161	A	A	103
276	1	1	chr2L_60-161	A	A	103
277	1	1	chr2L_60-161	A	A	103
278	1	1	chr2L_60-161	A	A	103
279	1	1	chr2L_60-161	A	A	103
280	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
281	1	1	chr2L_60-161	A	A	103
282	1	1	chr2L_60-161	A	A	103
283	1	1	chr2L_60-161	A	A	103
284	1	1	chr2L_60-161	A	A	103
285	1	1	chr2L_60-161	A	A	103
286	1	1	chr2L_60-161	A	A	103
287	1	1	chr2L_60-161	A	A	103
288	1	1	chr2L_60-161	A	A	103
289	1	1	chr2L_60-161	A	A	103
290	1	1	chr2L_60-161	A	A	103
291	1	1	chr2L_60-161	A	A	103
292	1	1	chr2L_60-161	A	A	103
293	1	1	chr2L_60-161	A	A	103
294	1	1	chr2L_60-161	A	A	103
295	1	1	chr2L_60-161	A	A	103
296	1	1	chr2L_60-161	A	A	103
297	1	1	chr2L_60-161	A	A	103
298	1	1	chr2L_60-161	A	A	103
299	1	1	chr2L_60-161	A	A	103
300	1	1	chr2L_60-161	A	A	103
301	1	1	chr2L_60-161	A	A	103
302	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
303	1	1	chr2L_60-161	A	A	103
304	1	1	chr2L_60-161	A	A	103
305	1	1	chr2L_60-161	A	A	103
306	1	1	chr2L_60-161	A	A	103
307	1	1	chr2L_60-161	A	A	103
308	1	1	chr2L_60-161	A	A	103
309	1	1	chr2L_60-161	A	A	103
310	1	1	chr2L_60-161	A	A	103
311	1	1	chr2L_60-161	A	A	103
312	1	1	chr2L_60-161	A	A	103
313	1	1	chr2L_60-161	A	A	103
314	1	1	chr2L_60-161	A	A	103
315	1	1	chr2L_60-161	A	A	103
316	1	1	chr2L_60-161	A	A	103
317	1	1	chr2L_60-161	A	A	103
318	1	1	chr2L_60-161	A	A	103
319	1	1	chr2L_60-161	A	A	103
320	1	1	chr2L_60-161	A	A	103
321	1	1	chr2L_60-161	A	A	103
322	1	1	chr2L_60-161	A	A	103
323	1	1	chr2L_60-161	A	A	103
324	1	1	chr2L_60-161	A	A	103
325	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
326	1	1	chr2L_60-161	A	A	103
327	1	1	chr2L_60-161	A	A	103
328	1	1	chr2L_60-161	A	A	103
329	1	1	chr2L_60-161	A	A	103
330	1	1	chr2L_60-161	A	A	103
331	1	1	chr2L_60-161	A	A	103
332	1	1	chr2L_60-161	A	A	103
333	1	1	chr2L_60-161	A	A	103
334	1	1	chr2L_60-161	A	A	103
335	1	1	chr2L_60-161	A	A	103
336	1	1	chr2L_60-161	A	A	103
337	1	1	chr2L_60-161	A	A	103
338	1	1	chr2L_60-161	A	A	103
339	1	1	chr2L_60-161	A	A	103
340	1	1	chr2L_60-161	A	A	103
341	1	1	chr2L_60-161	A	A	103
342	1	1	chr2L_60-161	A	A	103
343	1	1	chr2L_60-161	A	A	103
344	1	1	chr2L_60-161	A	A	103
345	1	1	chr2L_60-161	A	A	103
346	1	1	chr2L_60-161	A	A	103
347	1	1	chr2L_60-161	A	A	103
348	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
349	1	1	chr2L_60-161	A	A	103
350	1	1	chr2L_60-161	A	A	103
351	1	1	chr2L_60-161	A	A	103
352	1	1	chr2L_60-161	A	A	103
353	1	1	chr2L_60-161	A	A	103
354	1	1	chr2L_60-161	A	A	103
355	1	1	chr2L_60-161	A	A	103
356	1	1	chr2L_60-161	A	A	103
357	1	1	chr2L_60-161	A	A	103
358	1	1	chr2L_60-161	A	A	103
359	1	1	chr2L_60-161	A	A	103
360	1	1	chr2L_60-161	A	A	103
361	1	1	chr2L_60-161	A	A	103
362	1	1	chr2L_60-161	A	A	103
363	1	1	chr2L_60-161	A	A	103
364	1	1	chr2L_60-161	A	A	103
365	1	1	chr2L_60-161	A	A	103
366	1	1	chr2L_60-161	A	A	103
367	1	1	chr2L_60-161	A	A	103
368	1	1	chr2L_60-161	A	A	103
369	1	1	chr2L_60-161	A	A	103
370	1	1	chr2L_60-161	A	A	103
371	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
372	1	1	chr2L_60-161	A	A	103
373	1	1	chr2L_60-161	A	A	103
374	1	1	chr2L_60-161	A	A	103
375	1	1	chr2L_60-161	A	A	103
376	1	1	chr2L_60-161	A	A	103
377	1	1	chr2L_60-161	A	A	103
378	1	1	chr2L_60-161	A	A	103
379	1	1	chr2L_60-161	A	A	103
380	1	1	chr2L_60-161	A	A	103
381	1	1	chr2L_60-161	A	A	103
382	1	1	chr2L_60-161	A	A	103
383	1	1	chr2L_60-161	A	A	103
384	1	1	chr2L_60-161	A	A	103
385	1	1	chr2L_60-161	A	A	103
386	1	1	chr2L_60-161	A	A	103
387	1	1	chr2L_60-161	A	A	103
388	1	1	chr2L_60-161	A	A	103
389	1	1	chr2L_60-161	A	A	103
390	1	1	chr2L_60-161	A	A	103
391	1	1	chr2L_60-161	A	A	103
392	1	1	chr2L_60-161	A	A	103
393	1	1	chr2L_60-161	A	A	103
394	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
395	1	1	chr2L_60-161	A	A	103
396	1	1	chr2L_60-161	A	A	103
397	1	1	chr2L_60-161	A	A	103
398	1	1	chr2L_60-161	A	A	103
399	1	1	chr2L_60-161	A	A	103
400	1	1	chr2L_60-161	A	A	103
401	1	1	chr2L_60-161	A	A	103
402	1	1	chr2L_60-161	A	A	103
403	1	1	chr2L_60-161	A	A	103
404	1	1	chr2L_60-161	A	A	103
405	1	1	chr2L_60-161	A	A	103
406	1	1	chr2L_60-161	A	A	103
407	1	1	chr2L_60-161	A	A	103
408	1	1	chr2L_60-161	A	A	103
409	1	1	chr2L_60-161	A	A	103
410	1	1	chr2L_60-161	A	A	103
411	1	1	chr2L_60-161	A	A	103
412	1	1	chr2L_60-161	A	A	103
413	1	1	chr2L_60-161	A	A	103
414	1	1	chr2L_60-161	A	A	103
415	1	1	chr2L_60-161	A	A	103
416	1	1	chr2L_60-161	A	A	103
417	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
418	1	1	chr2L_60-161	A	A	103
419	1	1	chr2L_60-161	A	A	103
420	1	1	chr2L_60-161	A	A	103
421	1	1	chr2L_60-161	A	A	103
422	1	1	chr2L_60-161	A	A	103
423	1	1	chr2L_60-161	A	A	103
424	1	1	chr2L_60-161	A	A	103
425	1	1	chr2L_60-161	A	A	103
426	1	1	chr2L_60-161	A	A	103
427	1	1	chr2L_60-161	A	A	103
428	1	1	chr2L_60-161	A	A	103
429	1	1	chr2L_60-161	A	A	103
430	1	1	chr2L_60-161	A	A	103
431	1	1	chr2L_60-161	A	A	103
432	1	1	chr2L_60-161	A	A	103
433	1	1	chr2L_60-161	A	A	103
434	1	1	chr2L_60-161	A	A	103
435	1	1	chr2L_60-161	A	A	103
436	1	1	chr2L_60-161	A	A	103
437	1	1	chr2L_60-161	A	A	103
438	1	1	chr2L_60-161	A	A	103
439	1	1	chr2L_60-161	A	A	103
440	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
441	1	1	chr2L_60-161	A	A	103
442	1	1	chr2L_60-161	A	A	103
443	1	1	chr2L_60-161	A	A	103
444	1	1	chr2L_60-161	A	A	103
445	1	1	chr2L_60-161	A	A	103
446	1	1	chr2L_60-161	A	A	103
447	1	1	chr2L_60-161	A	A	103
448	1	1	chr2L_60-161	A	A	103
449	1	1	chr2L_60-161	A	A	103
450	1	1	chr2L_60-161	A	A	103
451	1	1	chr2L_60-161	A	A	103
452	1	1	chr2L_60-161	A	A	103
453	1	1	chr2L_60-161	A	A	103
454	1	1	chr2L_60-161	A	A	103
455	1	1	chr2L_60-161	A	A	103
456	1	1	chr2L_60-161	A	A	103
457	1	1	chr2L_60-161	A	A	103
458	1	1	chr2L_60-161	A	A	103
459	1	1	chr2L_60-161	A	A	103
460	1	1	chr2L_60-161	A	A	103
461	1	1	chr2L_60-161	A	A	103
462	1	1	chr2L_60-161	A	A	103
463	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
464	1	1	chr2L_60-161	A	A	103
465	1	1	chr2L_60-161	A	A	103
466	1	1	chr2L_60-161	A	A	103
467	1	1	chr2L_60-161	A	A	103
468	1	1	chr2L_60-161	A	A	103
469	1	1	chr2L_60-161	A	A	103
470	1	1	chr2L_60-161	A	A	103
471	1	1	chr2L_60-161	A	A	103
472	1	1	chr2L_60-161	A	A	103
473	1	1	chr2L_60-161	A	A	103
474	1	1	chr2L_60-161	A	A	103
475	1	1	chr2L_60-161	A	A	103
476	1	1	chr2L_60-161	A	A	103
477	1	1	chr2L_60-161	A	A	103
478	1	1	chr2L_60-161	A	A	103
479	1	1	chr2L_60-161	A	A	103
480	1	1	chr2L_60-161	A	A	103
481	1	1	chr2L_60-161	A	A	103
482	1	1	chr2L_60-161	A	A	103
483	1	1	chr2L_60-161	A	A	103
484	1	1	chr2L_60-161	A	A	103
485	1	1	chr2L_60-161	A	A	103
486	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
487	1	1	chr2L_60-161	A	A	103
488	1	1	chr2L_60-161	A	A	103
489	1	1	chr2L_60-161	A	A	103
490	1	1	chr2L_60-161	A	A	103
491	1	1	chr2L_60-161	A	A	103
492	1	1	chr2L_60-161	A	A	103
493	1	1	chr2L_60-161	A	A	103
494	1	1	chr2L_60-161	A	A	103
495	1	1	chr2L_60-161	A	A	103
496	1	1	chr2L_60-161	A	A	103
497	1	1	chr2L_60-161	A	A	103
498	1	1	chr2L_60-161	A	A	103
499	1	1	chr2L_60-161	A	A	103
500	1	1	chr2L_60-161	A	A	103
501	1	1	chr2L_60-161	A	A	103
502	1	1	chr2L_60-161	A	A	103
503	1	1	chr2L_60-161	A	A	103
504	1	1	chr2L_60-161	A	A	103
505	1	1	chr2L_60-161	A	A	103
506	1	1	chr2L_60-161	A	A	103
507	1	1	chr2L_60-161	A	A	103
508	1	1	chr2L_60-161	A	A	103
509	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
510	1	1	chr2L_60-161	A	A	103
511	1	1	chr2L_60-161	A	A	103
512	1	1	chr2L_60-161	A	A	103
513	1	1	chr2L_60-161	A	A	103
514	1	1	chr2L_60-161	A	A	103
515	1	1	chr2L_60-161	A	A	103
516	1	1	chr2L_60-161	A	A	103
517	1	1	chr2L_60-161	A	A	103
518	1	1	chr2L_60-161	A	A	103
519	1	1	chr2L_60-161	A	A	103
520	1	1	chr2L_60-161	A	A	103
521	1	1	chr2L_60-161	A	A	103
522	1	1	chr2L_60-161	A	A	103
523	1	1	chr2L_60-161	A	A	103
524	1	1	chr2L_60-161	A	A	103
525	1	1	chr2L_60-161	A	A	103
526	1	1	chr2L_60-161	A	A	103
527	1	1	chr2L_60-161	A	A	103
528	1	1	chr2L_60-161	A	A	103
529	1	1	chr2L_60-161	A	A	103
530	1	1	chr2L_60-161	A	A	103
531	1	1	chr2L_60-161	A	A	103
532	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
533	1	1	chr2L_60-161	A	A	103
534	1	1	chr2L_60-161	A	A	103
535	1	1	chr2L_60-161	A	A	103
536	1	1	chr2L_60-161	A	A	103
537	1	1	chr2L_60-161	A	A	103
538	1	1	chr2L_60-161	A	A	103
539	1	1	chr2L_60-161	A	A	103
540	1	1	chr2L_60-161	A	A	103
541	1	1	chr2L_60-161	A	A	103
542	1	1	chr2L_60-161	A	A	103
543	1	1	chr2L_60-161	A	A	103
544	1	1	chr2L_60-161	A	A	103
545	1	1	chr2L_60-161	A	A	103
546	1	1	chr2L_60-161	A	A	103
547	1	1	chr2L_60-161	A	A	103
548	1	1	chr2L_60-161	A	A	103
549	1	1	chr2L_60-161	A	A	103
550	1	1	chr2L_60-161	A	A	103
551	1	1	chr2L_60-161	A	A	103
552	1	1	chr2L_60-161	A	A	103
553	1	1	chr2L_60-161	A	A	103
554	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
555	1	1	chr2L_60-161	A	A	103
556	1	1	chr2L_60-161	A	A	103
557	1	1	chr2L_60-161	A	A	103
558	1	1	chr2L_60-161	A	A	103
559	1	1	chr2L_60-161	A	A	103
560	1	1	chr2L_60-161	A	A	103
561	1	1	chr2L_60-161	A	A	103
562	1	1	chr2L_60-161	A	A	103
563	1	1	chr2L_60-161	A	A	103
564	1	1	chr2L_60-161	A	A	103
565	1	1	chr2L_60-161	A	A	103
566	1	1	chr2L_60-161	A	A	103
567	1	1	chr2L_60-161	A	A	103
568	1	1	chr2L_60-161	A	A	103
569	1	1	chr2L_60-161	A	A	103
570	1	1	chr2L_60-161	A	A	103
571	1	1	chr2L_60-161	A	A	103
572	1	1	chr2L_60-161	A	A	103
573	1	1	chr2L_60-161	A	A	103
574	1	1	chr2L_60-161	A	A	103
575	1	1	chr2L_60-161	A	A	103
576	1	1	chr2L_60-161	A	A	103
577	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
578	1	1	chr2L_60-161	A	A	103
579	1	1	chr2L_60-161	A	A	103
580	1	1	chr2L_60-161	A	A	103
581	1	1	chr2L_60-161	A	A	103
582	1	1	chr2L_60-161	A	A	103
583	1	1	chr2L_60-161	A	A	103
584	1	1	chr2L_60-161	A	A	103
585	1	1	chr2L_60-161	A	A	103
586	1	1	chr2L_60-161	A	A	103
587	1	1	chr2L_60-161	A	A	103
588	1	1	chr2L_60-161	A	A	103
589	1	1	chr2L_60-161	A	A	103
590	1	1	chr2L_60-161	A	A	103
591	1	1	chr2L_60-161	A	A	103
592	1	1	chr2L_60-161	A	A	103
593	1	1	chr2L_60-161	A	A	103
594	1	1	chr2L_60-161	A	A	103
595	1	1	chr2L_60-161	A	A	103
596	1	1	chr2L_60-161	A	A	103
597	1	1	chr2L_60-161	A	A	103
598	1	1	chr2L_60-161	A	A	103
599	1	1	chr2L_60-161	A	A	103
600	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
601	1	1	chr2L_60-161	A	A	103
602	1	1	chr2L_60-161	A	A	103
603	1	1	chr2L_60-161	A	A	103
604	1	1	chr2L_60-161	A	A	103
605	1	1	chr2L_60-161	A	A	103
606	1	1	chr2L_60-161	A	A	103
607	1	1	chr2L_60-161	A	A	103
608	1	1	chr2L_60-161	A	A	103
609	1	1	chr2L_60-161	A	A	103
610	1	1	chr2L_60-161	A	A	103
611	1	1	chr2L_60-161	A	A	103
612	1	1	chr2L_60-161	A	A	103
613	1	1	chr2L_60-161	A	A	103
614	1	1	chr2L_60-161	A	A	103
615	1	1	chr2L_60-161	A	A	103
616	1	1	chr2L_60-161	A	A	103
617	1	1	chr2L_60-161	A	A	103
618	1	1	chr2L_60-161	A	A	103
619	1	1	chr2L_60-161	A	A	103
620	1	1	chr2L_60-161	A	A	103
621	1	1	chr2L_60-161	A	A	103
622	1	1	chr2L_60-161	A	A	103
623	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
624	1	1	chr2L_60-161	A	A	103
625	1	1	chr2L_60-161	A	A	103
626	1	1	chr2L_60-161	A	A	103
627	1	1	chr2L_60-161	A	A	103
628	1	1	chr2L_60-161	A	A	103
629	1	1	chr2L_60-161	A	A	103
630	1	1	chr2L_60-161	A	A	103
631	1	1	chr2L_60-161	A	A	103
632	1	1	chr2L_60-161	A	A	103
633	1	1	chr2L_60-161	A	A	103
634	1	1	chr2L_60-161	A	A	103
635	1	1	chr2L_60-161	A	A	103
636	1	1	chr2L_60-161	A	A	103
637	1	1	chr2L_60-161	A	A	103
638	1	1	chr2L_60-161	A	A	103
639	1	1	chr2L_60-161	A	A	103
640	1	1	chr2L_60-161	A	A	103
641	1	1	chr2L_60-161	A	A	103
642	1	1	chr2L_60-161	A	A	103
643	1	1	chr2L_60-161	A	A	103
644	1	1	chr2L_60-161	A	A	103
645	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
646	1	1	chr2L_60-161	A	A	103
647	1	1	chr2L_60-161	A	A	103
648	1	1	chr2L_60-161	A	A	103
649	1	1	chr2L_60-161	A	A	103
650	1	1	chr2L_60-161	A	A	103
651	1	1	chr2L_60-161	A	A	103
652	1	1	chr2L_60-161	A	A	103
653	1	1	chr2L_60-161	A	A	103
654	1	1	chr2L_60-161	A	A	103
655	1	1	chr2L_60-161	A	A	103
656	1	1	chr2L_60-161	A	A	103
657	1	1	chr2L_60-161	A	A	103
658	1	1	chr2L_60-161	A	A	103
659	1	1	chr2L_60-161	A	A	103
660	1	1	chr2L_60-161	A	A	103
661	1	1	chr2L_60-161	A	A	103
662	1	1	chr2L_60-161	A	A	103
663	1	1	chr2L_60-161	A	A	103
664	1	1	chr2L_60-161	A	A	103
665	1	1	chr2L_60-161	A	A	103
666	1	1	chr2L_60-161	A	A	103
667	1	1	chr2L_60-161	A	A	103

<b>Model ID</b>	<b>Subunit number</b>	<b>Subunit ID</b>	<b>Subunit name</b>	<b>Chain ID</b>	<b>Chain ID [auth]</b>	<b>Total residues</b>
668	1	1	chr2L_60-161	A	A	103
669	1	1	chr2L_60-161	A	A	103
670	1	1	chr2L_60-161	A	A	103
671	1	1	chr2L_60-161	A	A	103
672	1	1	chr2L_60-161	A	A	103
673	1	1	chr2L_60-161	A	A	103
674	1	1	chr2L_60-161	A	A	103
675	1	1	chr2L_60-161	A	A	103
676	1	1	chr2L_60-161	A	A	103
677	1	1	chr2L_60-161	A	A	103
678	1	1	chr2L_60-161	A	A	103
679	1	1	chr2L_60-161	A	A	103
680	1	1	chr2L_60-161	A	A	103
681	1	1	chr2L_60-161	A	A	103
682	1	1	chr2L_60-161	A	A	103
683	1	1	chr2L_60-161	A	A	103
684	1	1	chr2L_60-161	A	A	103
685	1	1	chr2L_60-161	A	A	103
686	1	1	chr2L_60-161	A	A	103
687	1	1	chr2L_60-161	A	A	103
688	1	1	chr2L_60-161	A	A	103
689	1	1	chr2L_60-161	A	A	103
690	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
691	1	1	chr2L_60-161	A	A	103
692	1	1	chr2L_60-161	A	A	103
693	1	1	chr2L_60-161	A	A	103
694	1	1	chr2L_60-161	A	A	103
695	1	1	chr2L_60-161	A	A	103
696	1	1	chr2L_60-161	A	A	103
697	1	1	chr2L_60-161	A	A	103
698	1	1	chr2L_60-161	A	A	103
699	1	1	chr2L_60-161	A	A	103
700	1	1	chr2L_60-161	A	A	103
701	1	1	chr2L_60-161	A	A	103
702	1	1	chr2L_60-161	A	A	103
703	1	1	chr2L_60-161	A	A	103
704	1	1	chr2L_60-161	A	A	103
705	1	1	chr2L_60-161	A	A	103
706	1	1	chr2L_60-161	A	A	103
707	1	1	chr2L_60-161	A	A	103
708	1	1	chr2L_60-161	A	A	103
709	1	1	chr2L_60-161	A	A	103
710	1	1	chr2L_60-161	A	A	103
711	1	1	chr2L_60-161	A	A	103
712	1	1	chr2L_60-161	A	A	103
713	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
714	1	1	chr2L_60-161	A	A	103
715	1	1	chr2L_60-161	A	A	103
716	1	1	chr2L_60-161	A	A	103
717	1	1	chr2L_60-161	A	A	103
718	1	1	chr2L_60-161	A	A	103
719	1	1	chr2L_60-161	A	A	103
720	1	1	chr2L_60-161	A	A	103
721	1	1	chr2L_60-161	A	A	103
722	1	1	chr2L_60-161	A	A	103
723	1	1	chr2L_60-161	A	A	103
724	1	1	chr2L_60-161	A	A	103
725	1	1	chr2L_60-161	A	A	103
726	1	1	chr2L_60-161	A	A	103
727	1	1	chr2L_60-161	A	A	103
728	1	1	chr2L_60-161	A	A	103
729	1	1	chr2L_60-161	A	A	103
730	1	1	chr2L_60-161	A	A	103
731	1	1	chr2L_60-161	A	A	103
732	1	1	chr2L_60-161	A	A	103
733	1	1	chr2L_60-161	A	A	103
734	1	1	chr2L_60-161	A	A	103
735	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
736	1	1	chr2L_60-161	A	A	103
737	1	1	chr2L_60-161	A	A	103
738	1	1	chr2L_60-161	A	A	103
739	1	1	chr2L_60-161	A	A	103
740	1	1	chr2L_60-161	A	A	103
741	1	1	chr2L_60-161	A	A	103
742	1	1	chr2L_60-161	A	A	103
743	1	1	chr2L_60-161	A	A	103
744	1	1	chr2L_60-161	A	A	103
745	1	1	chr2L_60-161	A	A	103
746	1	1	chr2L_60-161	A	A	103
747	1	1	chr2L_60-161	A	A	103
748	1	1	chr2L_60-161	A	A	103
749	1	1	chr2L_60-161	A	A	103
750	1	1	chr2L_60-161	A	A	103
751	1	1	chr2L_60-161	A	A	103
752	1	1	chr2L_60-161	A	A	103
753	1	1	chr2L_60-161	A	A	103
754	1	1	chr2L_60-161	A	A	103
755	1	1	chr2L_60-161	A	A	103
756	1	1	chr2L_60-161	A	A	103
757	1	1	chr2L_60-161	A	A	103
758	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
759	1	1	chr2L_60-161	A	A	103
760	1	1	chr2L_60-161	A	A	103
761	1	1	chr2L_60-161	A	A	103
762	1	1	chr2L_60-161	A	A	103
763	1	1	chr2L_60-161	A	A	103
764	1	1	chr2L_60-161	A	A	103
765	1	1	chr2L_60-161	A	A	103
766	1	1	chr2L_60-161	A	A	103
767	1	1	chr2L_60-161	A	A	103
768	1	1	chr2L_60-161	A	A	103
769	1	1	chr2L_60-161	A	A	103
770	1	1	chr2L_60-161	A	A	103
771	1	1	chr2L_60-161	A	A	103
772	1	1	chr2L_60-161	A	A	103
773	1	1	chr2L_60-161	A	A	103
774	1	1	chr2L_60-161	A	A	103
775	1	1	chr2L_60-161	A	A	103
776	1	1	chr2L_60-161	A	A	103
777	1	1	chr2L_60-161	A	A	103
778	1	1	chr2L_60-161	A	A	103
779	1	1	chr2L_60-161	A	A	103
780	1	1	chr2L_60-161	A	A	103
781	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
782	1	1	chr2L_60-161	A	A	103
783	1	1	chr2L_60-161	A	A	103
784	1	1	chr2L_60-161	A	A	103
785	1	1	chr2L_60-161	A	A	103
786	1	1	chr2L_60-161	A	A	103
787	1	1	chr2L_60-161	A	A	103
788	1	1	chr2L_60-161	A	A	103
789	1	1	chr2L_60-161	A	A	103
790	1	1	chr2L_60-161	A	A	103
791	1	1	chr2L_60-161	A	A	103
792	1	1	chr2L_60-161	A	A	103
793	1	1	chr2L_60-161	A	A	103
794	1	1	chr2L_60-161	A	A	103
795	1	1	chr2L_60-161	A	A	103
796	1	1	chr2L_60-161	A	A	103
797	1	1	chr2L_60-161	A	A	103
798	1	1	chr2L_60-161	A	A	103
799	1	1	chr2L_60-161	A	A	103
800	1	1	chr2L_60-161	A	A	103
801	1	1	chr2L_60-161	A	A	103
802	1	1	chr2L_60-161	A	A	103
803	1	1	chr2L_60-161	A	A	103
804	1	1	chr2L_60-161	A	A	103

<b>Model ID</b>	<b>Subunit number</b>	<b>Subunit ID</b>	<b>Subunit name</b>	<b>Chain ID</b>	<b>Chain ID [auth]</b>	<b>Total residues</b>
805	1	1	chr2L_60-161	A	A	103
806	1	1	chr2L_60-161	A	A	103
807	1	1	chr2L_60-161	A	A	103
808	1	1	chr2L_60-161	A	A	103
809	1	1	chr2L_60-161	A	A	103
810	1	1	chr2L_60-161	A	A	103
811	1	1	chr2L_60-161	A	A	103
812	1	1	chr2L_60-161	A	A	103
813	1	1	chr2L_60-161	A	A	103
814	1	1	chr2L_60-161	A	A	103
815	1	1	chr2L_60-161	A	A	103
816	1	1	chr2L_60-161	A	A	103
817	1	1	chr2L_60-161	A	A	103
818	1	1	chr2L_60-161	A	A	103
819	1	1	chr2L_60-161	A	A	103
820	1	1	chr2L_60-161	A	A	103
821	1	1	chr2L_60-161	A	A	103
822	1	1	chr2L_60-161	A	A	103
823	1	1	chr2L_60-161	A	A	103
824	1	1	chr2L_60-161	A	A	103
825	1	1	chr2L_60-161	A	A	103
826	1	1	chr2L_60-161	A	A	103
827	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
828	1	1	chr2L_60-161	A	A	103
829	1	1	chr2L_60-161	A	A	103
830	1	1	chr2L_60-161	A	A	103
831	1	1	chr2L_60-161	A	A	103
832	1	1	chr2L_60-161	A	A	103
833	1	1	chr2L_60-161	A	A	103
834	1	1	chr2L_60-161	A	A	103
835	1	1	chr2L_60-161	A	A	103
836	1	1	chr2L_60-161	A	A	103
837	1	1	chr2L_60-161	A	A	103
838	1	1	chr2L_60-161	A	A	103
839	1	1	chr2L_60-161	A	A	103
840	1	1	chr2L_60-161	A	A	103
841	1	1	chr2L_60-161	A	A	103
842	1	1	chr2L_60-161	A	A	103
843	1	1	chr2L_60-161	A	A	103
844	1	1	chr2L_60-161	A	A	103
845	1	1	chr2L_60-161	A	A	103
846	1	1	chr2L_60-161	A	A	103
847	1	1	chr2L_60-161	A	A	103
848	1	1	chr2L_60-161	A	A	103
849	1	1	chr2L_60-161	A	A	103
850	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
851	1	1	chr2L_60-161	A	A	103
852	1	1	chr2L_60-161	A	A	103
853	1	1	chr2L_60-161	A	A	103
854	1	1	chr2L_60-161	A	A	103
855	1	1	chr2L_60-161	A	A	103
856	1	1	chr2L_60-161	A	A	103
857	1	1	chr2L_60-161	A	A	103
858	1	1	chr2L_60-161	A	A	103
859	1	1	chr2L_60-161	A	A	103
860	1	1	chr2L_60-161	A	A	103
861	1	1	chr2L_60-161	A	A	103
862	1	1	chr2L_60-161	A	A	103
863	1	1	chr2L_60-161	A	A	103
864	1	1	chr2L_60-161	A	A	103
865	1	1	chr2L_60-161	A	A	103
866	1	1	chr2L_60-161	A	A	103
867	1	1	chr2L_60-161	A	A	103
868	1	1	chr2L_60-161	A	A	103
869	1	1	chr2L_60-161	A	A	103
870	1	1	chr2L_60-161	A	A	103
871	1	1	chr2L_60-161	A	A	103
872	1	1	chr2L_60-161	A	A	103

<b>Model ID</b>	<b>Subunit number</b>	<b>Subunit ID</b>	<b>Subunit name</b>	<b>Chain ID</b>	<b>Chain ID [auth]</b>	<b>Total residues</b>
873	1	1	chr2L_60-161	A	A	103
874	1	1	chr2L_60-161	A	A	103
875	1	1	chr2L_60-161	A	A	103
876	1	1	chr2L_60-161	A	A	103
877	1	1	chr2L_60-161	A	A	103
878	1	1	chr2L_60-161	A	A	103
879	1	1	chr2L_60-161	A	A	103
880	1	1	chr2L_60-161	A	A	103
881	1	1	chr2L_60-161	A	A	103
882	1	1	chr2L_60-161	A	A	103
883	1	1	chr2L_60-161	A	A	103
884	1	1	chr2L_60-161	A	A	103
885	1	1	chr2L_60-161	A	A	103
886	1	1	chr2L_60-161	A	A	103
887	1	1	chr2L_60-161	A	A	103
888	1	1	chr2L_60-161	A	A	103
889	1	1	chr2L_60-161	A	A	103
890	1	1	chr2L_60-161	A	A	103
891	1	1	chr2L_60-161	A	A	103
892	1	1	chr2L_60-161	A	A	103
893	1	1	chr2L_60-161	A	A	103
894	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
895	1	1	chr2L_60-161	A	A	103
896	1	1	chr2L_60-161	A	A	103
897	1	1	chr2L_60-161	A	A	103
898	1	1	chr2L_60-161	A	A	103
899	1	1	chr2L_60-161	A	A	103
900	1	1	chr2L_60-161	A	A	103
901	1	1	chr2L_60-161	A	A	103
902	1	1	chr2L_60-161	A	A	103
903	1	1	chr2L_60-161	A	A	103
904	1	1	chr2L_60-161	A	A	103
905	1	1	chr2L_60-161	A	A	103
906	1	1	chr2L_60-161	A	A	103
907	1	1	chr2L_60-161	A	A	103
908	1	1	chr2L_60-161	A	A	103
909	1	1	chr2L_60-161	A	A	103
910	1	1	chr2L_60-161	A	A	103
911	1	1	chr2L_60-161	A	A	103
912	1	1	chr2L_60-161	A	A	103
913	1	1	chr2L_60-161	A	A	103
914	1	1	chr2L_60-161	A	A	103
915	1	1	chr2L_60-161	A	A	103
916	1	1	chr2L_60-161	A	A	103
917	1	1	chr2L_60-161	A	A	103



Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
918	1	1	chr2L_60-161	A	A	103
919	1	1	chr2L_60-161	A	A	103
920	1	1	chr2L_60-161	A	A	103
921	1	1	chr2L_60-161	A	A	103
922	1	1	chr2L_60-161	A	A	103
923	1	1	chr2L_60-161	A	A	103
924	1	1	chr2L_60-161	A	A	103
925	1	1	chr2L_60-161	A	A	103
926	1	1	chr2L_60-161	A	A	103
927	1	1	chr2L_60-161	A	A	103
928	1	1	chr2L_60-161	A	A	103
929	1	1	chr2L_60-161	A	A	103
930	1	1	chr2L_60-161	A	A	103
931	1	1	chr2L_60-161	A	A	103
932	1	1	chr2L_60-161	A	A	103
933	1	1	chr2L_60-161	A	A	103
934	1	1	chr2L_60-161	A	A	103
935	1	1	chr2L_60-161	A	A	103
936	1	1	chr2L_60-161	A	A	103
937	1	1	chr2L_60-161	A	A	103
938	1	1	chr2L_60-161	A	A	103
939	1	1	chr2L_60-161	A	A	103
940	1	1	chr2L_60-161	A	A	103

<b>Model ID</b>	<b>Subunit number</b>	<b>Subunit ID</b>	<b>Subunit name</b>	<b>Chain ID</b>	<b>Chain ID [auth]</b>	<b>Total residues</b>
941	1	1	chr2L_60-161	A	A	103
942	1	1	chr2L_60-161	A	A	103
943	1	1	chr2L_60-161	A	A	103
944	1	1	chr2L_60-161	A	A	103
945	1	1	chr2L_60-161	A	A	103
946	1	1	chr2L_60-161	A	A	103
947	1	1	chr2L_60-161	A	A	103
948	1	1	chr2L_60-161	A	A	103
949	1	1	chr2L_60-161	A	A	103
950	1	1	chr2L_60-161	A	A	103
951	1	1	chr2L_60-161	A	A	103
952	1	1	chr2L_60-161	A	A	103
953	1	1	chr2L_60-161	A	A	103
954	1	1	chr2L_60-161	A	A	103
955	1	1	chr2L_60-161	A	A	103
956	1	1	chr2L_60-161	A	A	103
957	1	1	chr2L_60-161	A	A	103
958	1	1	chr2L_60-161	A	A	103
959	1	1	chr2L_60-161	A	A	103
960	1	1	chr2L_60-161	A	A	103
961	1	1	chr2L_60-161	A	A	103
962	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
963	1	1	chr2L_60-161	A	A	103
964	1	1	chr2L_60-161	A	A	103
965	1	1	chr2L_60-161	A	A	103
966	1	1	chr2L_60-161	A	A	103
967	1	1	chr2L_60-161	A	A	103
968	1	1	chr2L_60-161	A	A	103
969	1	1	chr2L_60-161	A	A	103
970	1	1	chr2L_60-161	A	A	103
971	1	1	chr2L_60-161	A	A	103
972	1	1	chr2L_60-161	A	A	103
973	1	1	chr2L_60-161	A	A	103
974	1	1	chr2L_60-161	A	A	103
975	1	1	chr2L_60-161	A	A	103
976	1	1	chr2L_60-161	A	A	103
977	1	1	chr2L_60-161	A	A	103
978	1	1	chr2L_60-161	A	A	103
979	1	1	chr2L_60-161	A	A	103
980	1	1	chr2L_60-161	A	A	103
981	1	1	chr2L_60-161	A	A	103
982	1	1	chr2L_60-161	A	A	103
983	1	1	chr2L_60-161	A	A	103
984	1	1	chr2L_60-161	A	A	103
985	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
986	1	1	chr2L_60-161	A	A	103
987	1	1	chr2L_60-161	A	A	103
988	1	1	chr2L_60-161	A	A	103
989	1	1	chr2L_60-161	A	A	103
990	1	1	chr2L_60-161	A	A	103
991	1	1	chr2L_60-161	A	A	103
992	1	1	chr2L_60-161	A	A	103
993	1	1	chr2L_60-161	A	A	103
994	1	1	chr2L_60-161	A	A	103
995	1	1	chr2L_60-161	A	A	103
996	1	1	chr2L_60-161	A	A	103
997	1	1	chr2L_60-161	A	A	103
998	1	1	chr2L_60-161	A	A	103
999	1	1	chr2L_60-161	A	A	103
1000	1	1	chr2L_60-161	A	A	103
1001	1	1	chr2L_60-161	A	A	103
1002	1	1	chr2L_60-161	A	A	103
1003	1	1	chr2L_60-161	A	A	103
1004	1	1	chr2L_60-161	A	A	103
1005	1	1	chr2L_60-161	A	A	103
1006	1	1	chr2L_60-161	A	A	103
1007	1	1	chr2L_60-161	A	A	103
1008	1	1	chr2L_60-161	A	A	103

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1009	1	1	chr2L_60-161	A	A	103
1010	1	1	chr2L_60-161	A	A	103
1011	1	1	chr2L_60-161	A	A	103
1012	1	1	chr2L_60-161	A	A	103

### Datasets used for modeling ?

*There is 1 unique dataset used to build the models in this entry.*

ID	Dataset type	Database name	Data access code
1	Integrative model	Not available	Not available

### Representation ?

*This entry has only one representation and includes 0 rigid bodies and 1 flexible units*

Chain ID	Rigid bodies	Non-rigid segments
A	-	1-103

### Methodology and software ?

*This entry is a result of 1 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	Monte carlo annealing	Sampling	None	5000	False	True

*There are 2 software packages reported in this entry.*

ID	Software name	Software version	Software classification	Software location
1	TADbit	3DAROC_2016.64	analysis of 3C-based experiments	<a href="http://sgt.cnag.cat/3dg/tadbit/">http://sgt.cnag.cat/3dg/tadbit/</a>
2	Integrative Modeling Platform (IMP)	2.6.1	integrative model building	<a href="https://integrativemodeling.org">https://integrativemodeling.org</a>

## Data quality ?

### 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	92.66	378.0
2	92.8	371.0
3	92.84	369.0
4	92.86	368.0
5	92.74	374.0
6	92.78	372.0
7	92.84	369.0
8	92.95	363.0
9	93.13	354.0
10	92.86	368.0
11	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
12	92.78	372.0
13	92.99	361.0
14	92.89	366.0
15	93.13	354.0
16	92.97	362.0
17	92.93	364.0
18	92.7	376.0
19	92.93	364.0
20	92.88	367.0
21	92.82	370.0
22	92.88	367.0
23	92.88	367.0
24	92.99	361.0
25	92.95	363.0
26	92.88	367.0
27	92.84	369.0
28	92.91	365.0
29	92.89	366.0
30	92.95	363.0
31	92.95	363.0
32	93.15	353.0
33	92.56	383.0
34	92.89	366.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
35	92.89	366.0
36	92.91	365.0
37	92.89	366.0
38	92.82	370.0
39	92.86	368.0
40	92.91	365.0
41	92.86	368.0
42	92.84	369.0
43	92.88	367.0
44	93.03	359.0
45	92.86	368.0
46	92.84	369.0
47	92.84	369.0
48	92.88	367.0
49	92.91	365.0
50	93.07	357.0
51	93.05	358.0
52	92.91	365.0
53	92.58	382.0
54	92.84	369.0
55	92.86	368.0
56	92.82	370.0
57	92.95	363.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
58	93.07	357.0
59	92.74	374.0
60	92.99	361.0
61	92.84	369.0
62	92.78	372.0
63	92.97	362.0
64	92.88	367.0
65	92.88	367.0
66	92.78	372.0
67	92.72	375.0
68	92.95	363.0
69	92.95	363.0
70	92.88	367.0
71	92.93	364.0
72	92.91	365.0
73	92.82	370.0
74	92.84	369.0
75	92.82	370.0
76	92.78	372.0
77	93.15	353.0
78	93.01	360.0
79	92.89	366.0
80	92.89	366.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
81	92.74	374.0
82	92.82	370.0
83	92.93	364.0
84	93.05	358.0
85	92.86	368.0
86	92.86	368.0
87	92.88	367.0
88	92.95	363.0
89	92.86	368.0
90	93.03	359.0
91	92.95	363.0
92	92.91	365.0
93	92.74	374.0
94	92.89	366.0
95	92.99	361.0
96	92.62	380.0
97	92.97	362.0
98	92.76	373.0
99	92.82	370.0
100	92.74	374.0
101	92.88	367.0
102	92.82	370.0
103	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
104	92.82	370.0
105	92.93	364.0
106	92.97	362.0
107	92.88	367.0
108	92.82	370.0
109	93.07	357.0
110	92.97	362.0
111	92.88	367.0
112	92.8	371.0
113	92.91	365.0
114	92.86	368.0
115	92.76	373.0
116	93.01	360.0
117	92.76	373.0
118	92.95	363.0
119	92.82	370.0
120	93.05	358.0
121	92.89	366.0
122	92.74	374.0
123	92.91	365.0
124	92.95	363.0
125	92.88	367.0
126	93.05	358.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
127	92.95	363.0
128	93.05	358.0
129	92.97	362.0
130	92.72	375.0
131	92.78	372.0
132	92.88	367.0
133	92.89	366.0
134	92.8	371.0
135	92.89	366.0
136	92.84	369.0
137	92.95	363.0
138	92.8	371.0
139	92.91	365.0
140	92.82	370.0
141	93.11	355.0
142	92.91	365.0
143	92.97	362.0
144	92.97	362.0
145	92.74	374.0
146	92.76	373.0
147	92.82	370.0
148	92.93	364.0
149	92.72	375.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
150	92.82	370.0
151	92.88	367.0
152	92.95	363.0
153	93.05	358.0
154	92.93	364.0
155	92.82	370.0
156	92.93	364.0
157	92.97	362.0
158	92.8	371.0
159	93.15	353.0
160	92.8	371.0
161	92.91	365.0
162	92.84	369.0
163	92.74	374.0
164	92.93	364.0
165	92.99	361.0
166	92.78	372.0
167	92.7	376.0
168	92.68	377.0
169	92.84	369.0
170	92.8	371.0
171	92.91	365.0
172	92.76	373.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
173	92.74	374.0
174	92.76	373.0
175	92.91	365.0
176	92.66	378.0
177	92.86	368.0
178	92.93	364.0
179	92.74	374.0
180	93.07	357.0
181	92.84	369.0
182	92.72	375.0
183	92.89	366.0
184	92.82	370.0
185	92.88	367.0
186	92.84	369.0
187	92.86	368.0
188	92.68	377.0
189	92.84	369.0
190	92.72	375.0
191	92.82	370.0
192	92.78	372.0
193	92.89	366.0
194	92.93	364.0
195	92.82	370.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
196	92.8	371.0
197	92.97	362.0
198	92.84	369.0
199	92.89	366.0
200	92.89	366.0
201	92.86	368.0
202	92.68	377.0
203	92.64	379.0
204	92.72	375.0
205	92.95	363.0
206	92.72	375.0
207	92.82	370.0
208	92.74	374.0
209	92.88	367.0
210	92.74	374.0
211	92.66	378.0
212	92.82	370.0
213	92.66	378.0
214	92.86	368.0
215	92.74	374.0
216	92.6	381.0
217	92.8	371.0
218	92.7	376.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
219	92.95	363.0
220	93.09	356.0
221	93.03	359.0
222	93.09	356.0
223	92.8	371.0
224	93.07	357.0
225	92.78	372.0
226	92.78	372.0
227	92.99	361.0
228	92.76	373.0
229	92.86	368.0
230	92.84	369.0
231	92.76	373.0
232	92.68	377.0
233	92.97	362.0
234	92.72	375.0
235	92.89	366.0
236	92.86	368.0
237	92.62	380.0
238	92.93	364.0
239	92.8	371.0
240	92.84	369.0
241	92.8	371.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
242	92.95	363.0
243	92.93	364.0
244	92.99	361.0
245	92.86	368.0
246	92.82	370.0
247	92.78	372.0
248	92.89	366.0
249	92.66	378.0
250	92.8	371.0
251	92.82	370.0
252	92.66	378.0
253	92.93	364.0
254	92.86	368.0
255	92.72	375.0
256	92.56	383.0
257	92.93	364.0
258	92.89	366.0
259	93.01	360.0
260	92.89	366.0
261	92.97	362.0
262	92.58	382.0
263	92.7	376.0
264	92.64	379.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
265	92.95	363.0
266	92.99	361.0
267	93.01	360.0
268	92.56	383.0
269	92.84	369.0
270	92.55	384.0
271	92.86	368.0
272	92.97	362.0
273	93.01	360.0
274	92.8	371.0
275	92.91	365.0
276	92.82	370.0
277	92.93	364.0
278	92.86	368.0
279	92.89	366.0
280	92.66	378.0
281	92.86	368.0
282	92.84	369.0
283	92.89	366.0
284	93.03	359.0
285	92.72	375.0
286	92.68	377.0
287	92.8	371.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
288	92.68	377.0
289	92.84	369.0
290	92.76	373.0
291	92.88	367.0
292	92.91	365.0
293	92.6	381.0
294	92.76	373.0
295	92.86	368.0
296	92.82	370.0
297	92.82	370.0
298	92.64	379.0
299	92.86	368.0
300	92.89	366.0
301	92.86	368.0
302	93.01	360.0
303	92.84	369.0
304	92.8	371.0
305	92.93	364.0
306	92.89	366.0
307	92.76	373.0
308	92.74	374.0
309	92.76	373.0
310	92.66	378.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
311	92.84	369.0
312	92.55	384.0
313	92.49	387.0
314	92.68	377.0
315	92.7	376.0
316	92.84	369.0
317	92.64	379.0
318	92.68	377.0
319	92.91	365.0
320	92.91	365.0
321	92.76	373.0
322	92.78	372.0
323	92.93	364.0
324	92.93	364.0
325	92.88	367.0
326	92.82	370.0
327	92.7	376.0
328	92.95	363.0
329	92.91	365.0
330	92.6	381.0
331	92.74	374.0
332	92.53	385.0
333	92.78	372.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
334	92.89	366.0
335	92.88	367.0
336	92.62	380.0
337	92.82	370.0
338	92.76	373.0
339	92.89	366.0
340	92.7	376.0
341	92.76	373.0
342	92.76	373.0
343	92.78	372.0
344	92.88	367.0
345	92.84	369.0
346	92.84	369.0
347	92.76	373.0
348	92.8	371.0
349	92.66	378.0
350	92.78	372.0
351	92.88	367.0
352	93.09	356.0
353	92.76	373.0
354	92.97	362.0
355	92.82	370.0
356	92.82	370.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
357	93.03	359.0
358	92.64	379.0
359	92.88	367.0
360	92.88	367.0
361	92.86	368.0
362	92.66	378.0
363	93.01	360.0
364	92.74	374.0
365	92.66	378.0
366	93.01	360.0
367	92.8	371.0
368	92.7	376.0
369	92.86	368.0
370	92.91	365.0
371	92.91	365.0
372	93.05	358.0
373	92.86	368.0
374	92.58	382.0
375	92.89	366.0
376	93.05	358.0
377	92.84	369.0
378	92.89	366.0
379	92.74	374.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
380	92.91	365.0
381	92.84	369.0
382	92.66	378.0
383	92.88	367.0
384	92.8	371.0
385	92.72	375.0
386	92.78	372.0
387	92.88	367.0
388	92.76	373.0
389	92.64	379.0
390	92.99	361.0
391	92.74	374.0
392	92.97	362.0
393	92.56	383.0
394	92.74	374.0
395	92.62	380.0
396	92.88	367.0
397	92.66	378.0
398	92.89	366.0
399	92.91	365.0
400	92.8	371.0
401	92.76	373.0
402	93.03	359.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
403	92.76	373.0
404	92.86	368.0
405	93.07	357.0
406	92.74	374.0
407	92.89	366.0
408	92.74	374.0
409	92.7	376.0
410	92.91	365.0
411	92.7	376.0
412	92.74	374.0
413	92.97	362.0
414	92.97	362.0
415	92.88	367.0
416	92.86	368.0
417	92.7	376.0
418	92.74	374.0
419	92.76	373.0
420	92.82	370.0
421	92.51	386.0
422	92.66	378.0
423	92.64	379.0
424	93.01	360.0
425	93.05	358.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
426	92.76	373.0
427	92.76	373.0
428	92.58	382.0
429	92.82	370.0
430	92.86	368.0
431	92.86	368.0
432	92.76	373.0
433	92.93	364.0
434	92.89	366.0
435	92.64	379.0
436	92.74	374.0
437	92.66	378.0
438	92.86	368.0
439	92.8	371.0
440	93.03	359.0
441	92.64	379.0
442	92.84	369.0
443	92.68	377.0
444	93.01	360.0
445	92.68	377.0
446	92.74	374.0
447	92.8	371.0
448	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
449	92.88	367.0
450	93.01	360.0
451	92.89	366.0
452	92.86	368.0
453	92.88	367.0
454	92.88	367.0
455	92.7	376.0
456	92.99	361.0
457	92.76	373.0
458	92.68	377.0
459	92.86	368.0
460	92.72	375.0
461	92.72	375.0
462	92.95	363.0
463	92.78	372.0
464	92.82	370.0
465	92.82	370.0
466	92.82	370.0
467	92.64	379.0
468	92.86	368.0
469	92.86	368.0
470	92.62	380.0
471	92.7	376.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
472	92.7	376.0
473	92.76	373.0
474	92.78	372.0
475	92.86	368.0
476	92.89	366.0
477	92.6	381.0
478	92.95	363.0
479	93.01	360.0
480	92.84	369.0
481	92.97	362.0
482	92.82	370.0
483	92.99	361.0
484	92.64	379.0
485	92.86	368.0
486	92.93	364.0
487	93.01	360.0
488	92.82	370.0
489	92.93	364.0
490	92.84	369.0
491	92.76	373.0
492	92.86	368.0
493	92.97	362.0
494	92.78	372.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
495	92.89	366.0
496	93.01	360.0
497	92.72	375.0
498	92.74	374.0
499	92.97	362.0
500	92.89	366.0
501	92.7	376.0
502	93.13	354.0
503	92.66	378.0
504	92.95	363.0
505	92.78	372.0
506	92.7	376.0
507	93.01	360.0
508	92.8	371.0
509	92.84	369.0
510	92.86	368.0
511	92.74	374.0
512	92.78	372.0
513	92.84	369.0
514	92.95	363.0
515	93.13	354.0
516	92.86	368.0
517	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
518	92.78	372.0
519	92.99	361.0
520	92.89	366.0
521	93.13	354.0
522	92.97	362.0
523	92.93	364.0
524	92.7	376.0
525	92.93	364.0
526	92.88	367.0
527	92.82	370.0
528	92.88	367.0
529	92.88	367.0
530	92.99	361.0
531	92.95	363.0
532	92.88	367.0
533	92.84	369.0
534	92.91	365.0
535	92.89	366.0
536	92.95	363.0
537	92.95	363.0
538	93.15	353.0
539	92.56	383.0
540	92.89	366.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
541	92.89	366.0
542	92.91	365.0
543	92.89	366.0
544	92.82	370.0
545	92.86	368.0
546	92.91	365.0
547	92.86	368.0
548	92.84	369.0
549	92.88	367.0
550	93.03	359.0
551	92.86	368.0
552	92.84	369.0
553	92.84	369.0
554	92.88	367.0
555	92.91	365.0
556	93.07	357.0
557	93.05	358.0
558	92.91	365.0
559	92.58	382.0
560	92.84	369.0
561	92.86	368.0
562	92.82	370.0
563	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
564	93.07	357.0
565	92.74	374.0
566	92.99	361.0
567	92.84	369.0
568	92.78	372.0
569	92.97	362.0
570	92.88	367.0
571	92.88	367.0
572	92.78	372.0
573	92.72	375.0
574	92.95	363.0
575	92.95	363.0
576	92.88	367.0
577	92.93	364.0
578	92.91	365.0
579	92.82	370.0
580	92.84	369.0
581	92.82	370.0
582	92.78	372.0
583	93.15	353.0
584	93.01	360.0
585	92.89	366.0
586	92.89	366.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
587	92.74	374.0
588	92.82	370.0
589	92.93	364.0
590	93.05	358.0
591	92.86	368.0
592	92.86	368.0
593	92.88	367.0
594	92.95	363.0
595	92.86	368.0
596	93.03	359.0
597	92.95	363.0
598	92.91	365.0
599	92.74	374.0
600	92.89	366.0
601	92.99	361.0
602	92.62	380.0
603	92.97	362.0
604	92.76	373.0
605	92.82	370.0
606	92.74	374.0
607	92.88	367.0
608	92.82	370.0
609	92.95	363.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
610	92.82	370.0
611	92.93	364.0
612	92.97	362.0
613	92.88	367.0
614	92.82	370.0
615	93.07	357.0
616	92.97	362.0
617	92.88	367.0
618	92.8	371.0
619	92.91	365.0
620	92.86	368.0
621	92.76	373.0
622	93.01	360.0
623	92.76	373.0
624	92.95	363.0
625	92.82	370.0
626	93.05	358.0
627	92.89	366.0
628	92.74	374.0
629	92.91	365.0
630	92.95	363.0
631	92.88	367.0
632	93.05	358.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
633	92.95	363.0
634	93.05	358.0
635	92.97	362.0
636	92.72	375.0
637	92.78	372.0
638	92.88	367.0
639	92.89	366.0
640	92.8	371.0
641	92.89	366.0
642	92.84	369.0
643	92.95	363.0
644	92.8	371.0
645	92.91	365.0
646	92.82	370.0
647	93.11	355.0
648	92.91	365.0
649	92.97	362.0
650	92.97	362.0
651	92.74	374.0
652	92.76	373.0
653	92.82	370.0
654	92.93	364.0
655	92.72	375.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
656	92.82	370.0
657	92.88	367.0
658	92.95	363.0
659	93.05	358.0
660	92.93	364.0
661	92.82	370.0
662	92.93	364.0
663	92.97	362.0
664	92.8	371.0
665	93.15	353.0
666	92.8	371.0
667	92.91	365.0
668	92.84	369.0
669	92.74	374.0
670	92.93	364.0
671	92.99	361.0
672	92.78	372.0
673	92.7	376.0
674	92.68	377.0
675	92.84	369.0
676	92.8	371.0
677	92.91	365.0
678	92.76	373.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
679	92.74	374.0
680	92.76	373.0
681	92.91	365.0
682	92.66	378.0
683	92.86	368.0
684	92.93	364.0
685	92.74	374.0
686	93.07	357.0
687	92.84	369.0
688	92.72	375.0
689	92.89	366.0
690	92.82	370.0
691	92.88	367.0
692	92.84	369.0
693	92.86	368.0
694	92.68	377.0
695	92.84	369.0
696	92.72	375.0
697	92.82	370.0
698	92.78	372.0
699	92.89	366.0
700	92.93	364.0
701	92.82	370.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
702	92.8	371.0
703	92.97	362.0
704	92.84	369.0
705	92.89	366.0
706	92.89	366.0
707	92.86	368.0
708	92.68	377.0
709	92.64	379.0
710	92.72	375.0
711	92.95	363.0
712	92.72	375.0
713	92.82	370.0
714	92.74	374.0
715	92.88	367.0
716	92.74	374.0
717	92.66	378.0
718	92.82	370.0
719	92.66	378.0
720	92.86	368.0
721	92.74	374.0
722	92.6	381.0
723	92.8	371.0
724	92.7	376.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
725	92.95	363.0
726	93.09	356.0
727	93.03	359.0
728	93.09	356.0
729	92.8	371.0
730	93.07	357.0
731	92.78	372.0
732	92.78	372.0
733	92.99	361.0
734	92.76	373.0
735	92.86	368.0
736	92.84	369.0
737	92.76	373.0
738	92.68	377.0
739	92.97	362.0
740	92.72	375.0
741	92.89	366.0
742	92.86	368.0
743	92.62	380.0
744	92.93	364.0
745	92.8	371.0
746	92.84	369.0
747	92.8	371.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
748	92.95	363.0
749	92.93	364.0
750	92.99	361.0
751	92.86	368.0
752	92.82	370.0
753	92.78	372.0
754	92.89	366.0
755	92.66	378.0
756	92.8	371.0
757	92.82	370.0
758	92.66	378.0
759	92.93	364.0
760	92.86	368.0
761	92.72	375.0
762	92.56	383.0
763	92.93	364.0
764	92.89	366.0
765	93.01	360.0
766	92.89	366.0
767	92.97	362.0
768	92.58	382.0
769	92.7	376.0
770	92.64	379.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
771	92.95	363.0
772	92.99	361.0
773	93.01	360.0
774	92.56	383.0
775	92.84	369.0
776	92.55	384.0
777	92.86	368.0
778	92.97	362.0
779	93.01	360.0
780	92.8	371.0
781	92.91	365.0
782	92.82	370.0
783	92.93	364.0
784	92.86	368.0
785	92.89	366.0
786	92.66	378.0
787	92.86	368.0
788	92.84	369.0
789	92.89	366.0
790	93.03	359.0
791	92.72	375.0
792	92.68	377.0
793	92.8	371.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
794	92.68	377.0
795	92.84	369.0
796	92.76	373.0
797	92.88	367.0
798	92.91	365.0
799	92.6	381.0
800	92.76	373.0
801	92.86	368.0
802	92.82	370.0
803	92.82	370.0
804	92.64	379.0
805	92.86	368.0
806	92.89	366.0
807	92.86	368.0
808	93.01	360.0
809	92.84	369.0
810	92.8	371.0
811	92.93	364.0
812	92.89	366.0
813	92.76	373.0
814	92.74	374.0
815	92.76	373.0
816	92.66	378.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
817	92.84	369.0
818	92.55	384.0
819	92.49	387.0
820	92.68	377.0
821	92.7	376.0
822	92.84	369.0
823	92.64	379.0
824	92.68	377.0
825	92.91	365.0
826	92.91	365.0
827	92.76	373.0
828	92.78	372.0
829	92.93	364.0
830	92.93	364.0
831	92.88	367.0
832	92.82	370.0
833	92.7	376.0
834	92.95	363.0
835	92.91	365.0
836	92.6	381.0
837	92.74	374.0
838	92.53	385.0
839	92.78	372.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
840	92.89	366.0
841	92.88	367.0
842	92.62	380.0
843	92.82	370.0
844	92.76	373.0
845	92.89	366.0
846	92.7	376.0
847	92.76	373.0
848	92.76	373.0
849	92.78	372.0
850	92.88	367.0
851	92.84	369.0
852	92.84	369.0
853	92.76	373.0
854	92.8	371.0
855	92.66	378.0
856	92.78	372.0
857	92.88	367.0
858	93.09	356.0
859	92.76	373.0
860	92.97	362.0
861	92.82	370.0
862	92.82	370.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
863	93.03	359.0
864	92.64	379.0
865	92.88	367.0
866	92.88	367.0
867	92.86	368.0
868	92.66	378.0
869	93.01	360.0
870	92.74	374.0
871	92.66	378.0
872	93.01	360.0
873	92.8	371.0
874	92.7	376.0
875	92.86	368.0
876	92.91	365.0
877	92.91	365.0
878	93.05	358.0
879	92.86	368.0
880	92.58	382.0
881	92.89	366.0
882	93.05	358.0
883	92.84	369.0
884	92.89	366.0
885	92.74	374.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
886	92.91	365.0
887	92.84	369.0
888	92.66	378.0
889	92.88	367.0
890	92.8	371.0
891	92.72	375.0
892	92.78	372.0
893	92.88	367.0
894	92.76	373.0
895	92.64	379.0
896	92.99	361.0
897	92.74	374.0
898	92.97	362.0
899	92.56	383.0
900	92.74	374.0
901	92.62	380.0
902	92.88	367.0
903	92.66	378.0
904	92.89	366.0
905	92.91	365.0
906	92.8	371.0
907	92.76	373.0
908	93.03	359.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
909	92.76	373.0
910	92.86	368.0
911	93.07	357.0
912	92.74	374.0
913	92.89	366.0
914	92.74	374.0
915	92.7	376.0
916	92.91	365.0
917	92.7	376.0
918	92.74	374.0
919	92.97	362.0
920	92.97	362.0
921	92.88	367.0
922	92.86	368.0
923	92.7	376.0
924	92.74	374.0
925	92.76	373.0
926	92.82	370.0
927	92.51	386.0
928	92.66	378.0
929	92.64	379.0
930	93.01	360.0
931	93.05	358.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
932	92.76	373.0
933	92.76	373.0
934	92.58	382.0
935	92.82	370.0
936	92.86	368.0
937	92.86	368.0
938	92.76	373.0
939	92.93	364.0
940	92.89	366.0
941	92.64	379.0
942	92.74	374.0
943	92.66	378.0
944	92.86	368.0
945	92.8	371.0
946	93.03	359.0
947	92.64	379.0
948	92.84	369.0
949	92.68	377.0
950	93.01	360.0
951	92.68	377.0
952	92.74	374.0
953	92.8	371.0
954	92.95	363.0

<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
955	92.88	367.0
956	93.01	360.0
957	92.89	366.0
958	92.86	368.0
959	92.88	367.0
960	92.88	367.0
961	92.7	376.0
962	92.99	361.0
963	92.76	373.0
964	92.68	377.0
965	92.86	368.0
966	92.72	375.0
967	92.72	375.0
968	92.95	363.0
969	92.78	372.0
970	92.82	370.0
971	92.82	370.0
972	92.82	370.0
973	92.64	379.0
974	92.86	368.0
975	92.86	368.0
976	92.62	380.0
977	92.7	376.0



<b>Models</b>	<b>Excluded Volume Satisfaction (%)</b>	<b>Number of violations</b>
978	92.7	376.0
979	92.76	373.0
980	92.78	372.0
981	92.86	368.0
982	92.89	366.0
983	92.6	381.0
984	92.95	363.0
985	93.01	360.0
986	92.84	369.0
987	92.97	362.0
988	92.82	370.0
989	92.99	361.0
990	92.64	379.0
991	92.86	368.0
992	92.93	364.0
993	93.01	360.0
994	92.82	370.0
995	92.93	364.0
996	92.84	369.0
997	92.76	373.0
998	92.86	368.0
999	92.97	362.0
1000	92.78	372.0

Models	Excluded Volume Satisfaction (%)	Number of violations
1001	92.89	366.0
1002	93.01	360.0
1003	92.72	375.0
1004	92.74	374.0
1005	92.97	362.0
1006	92.89	366.0
1007	92.7	376.0
1008	93.13	354.0
1009	92.66	378.0
1010	92.95	363.0
1011	92.78	372.0
1012	92.7	376.0

### Fit of model to data used for modeling ?

### Fit of model to data used for validation ?

Validation for this section is under development.

#### *Acknowledgements*

*Development of integrative model validation metrics, implementation of a model validation pipeline, and creation of a validation report for integrative structures, are funded by NSF ABI awards (DBI-1756248, DBI-2112966, DBI-2112967, DBI-2112968, and DBI-1756250). The [PDB-Dev team](#) and members of [Sali lab](#) contributed model validation metrics and software packages.*

*Implementation of validation methods for SAS data and SAS-based models are funded by [RCSB PDB](#) (grant number DBI-1832184). Dr. Stephen Burley, Dr. John Westbrook, and Dr. Jasmine Young from [RCSB PDB](#), Dr. Jill Trehwella,*

*Dr. Dina Schneidman, and members of the [SASBDB](#) repository are acknowledged for their advice and support in implementing SAS validation methods.*

*Members of the [wwPDB Integrative/Hybrid Methods Task Force](#) provided recommendations and community support for the project.*