

Mode #	Motor		N		U50		L50		C	
	rigor	post	rigor	post	rigor	post	rigor	post	rigor	post
1	0.00	0.04	0.04	0.06	-0.12	0.05	0.09	-0.03	0.05	-0.01
2	0.00	0.08	-0.03	-0.21	-0.03	0.18	0.00	-0.15	0.08	-0.10
3	0.02	0.00	-0.15	-0.07	0.14	0.00	-0.12	0.01	0.01	0.08
4	0.02	0.03	0.07	-0.04	-0.03	-0.01	-0.02	0.05	-0.08	0.11
5	0.06	0.05	-0.12	-0.14	-0.01	0.08	0.24	0.16	-0.02	-0.07
6	0.07	0.06	0.02	0.03	-0.21	0.22	0.06	-0.14	0.10	-0.04
7	0.12	0.28	-0.12	0.13	-0.13	0.21	0.02	0.08	0.07	0.04
8	0.20	0.35	-0.06	0.15	-0.06	0.21	-0.16	0.25	-0.15	0.06
9	0.18	0.03	0.12	-0.03	0.17	-0.09	0.08	0.01	-0.02	0.11
10	0.23	0.06	0.05	-0.08	0.23	-0.04	0.17	0.10	-0.08	-0.10
11	0.15	0.09	-0.06	0.09	-0.13	-0.05	0.04	0.06	-0.17	0.07
12	0.19	0.09	0.14	-0.04	0.06	-0.07	0.15	-0.08	-0.02	0.06
13	0.31	0.33	0.29	-0.19	0.13	-0.20	0.14	-0.20	0.01	0.02
14	0.20	0.08	-0.12	0.00	0.01	-0.04	-0.18	0.04	-0.10	-0.14
15	0.21	0.23	-0.07	0.05	-0.24	0.25	0.02	-0.04	-0.09	0.16
16	0.11	0.11	-0.16	0.12	0.14	-0.10	0.12	0.11	0.08	0.12
17	0.09	0.02	-0.20	-0.04	0.02	0.01	0.14	0.13	-0.14	-0.09
18	0.15	0.07	-0.20	-0.26	-0.07	0.01	0.12	0.15	-0.09	-0.03
19	0.02	0.10	0.09	-0.02	-0.12	0.00	-0.05	-0.01	0.05	-0.16
20	0.00	0.02	0.15	-0.14	-0.07	0.04	-0.07	0.03	-0.01	-0.07
21	0.17	0.15	-0.04	0.15	0.08	-0.11	0.15	-0.29	0.19	-0.09
22	0.04	0.08	-0.08	-0.09	-0.05	0.02	-0.02	0.02	0.14	-0.08
23	0.11	0.01	-0.05	-0.01	0.06	0.01	0.19	0.15	0.02	-0.22
24	0.04	0.17	-0.05	-0.17	-0.03	-0.03	0.13	-0.03	-0.09	-0.09

TABLE S5: Rigor-like and post-rigor involvement coefficients corresponding to the conformational transition of the motor domain (including N, U50, L50, and C; aa 61-762), and individual subdomains N, U50, L50, and C, respectively. Modes that contribute more than 0.10 and 0.12 to the structural transition of the motor domain and its subdomains, respectively, are shown in bold. The values chosen as thresholds in the involvement-coefficient analysis are somewhat arbitrary but make possible the identification of modes that mostly contribute to specific conformational changes.