

**Table S15.** Detailed list of energies for each complex in group-SubMultiProteins:DNA

	<u>deltaG-int (kcal/mol)</u>	<u>deltaG-diss (kcal/mol)</u>	<u>deltaG-int (kJ/mol)</u>	<u>deltaG-diss (kJ/mol)</u>
1A02-F	-22	6.9	-92.1096	28.88892
1A02-J	-18.2	4.1	-76.19976	17.16588
1A02-N	-15	2.8	-62.802	11.72304
1AKH-A	-14	10.6	-58.6152	44.38008
1AKH-B	-5.9	4.6	-24.70212	19.25928
1B72-A	-18.5	7.1	-77.4558	29.72628
1B72-B	-15.7	5.5	-65.73276	23.0274
1B8I-A	-16.9	9.1	-70.75692	38.09988
1B8I-B	-9.7	-0.5	-40.61196	-2.0934
1CF7-A	-17.9	3.9	-74.94372	16.32852
1CF7-B	-17.2	0.8	-72.01296	3.34944
1CQT-B	-25.8	25.5	-108.01944	106.7634
1CQT-J	-16.2	3	-67.82616	12.5604
1D3U-A	-23.8	5.3	-99.64584	22.19004
1D3U-B	-31.3	17.7	-131.04684	74.10636
1DSZ-A	-17.9	3.7	-74.94372	15.49116
1DSZ-B	-14.7	3.7	-61.54596	15.49116
1FOS-G	-21	3.4	-87.9228	14.23512
1FOS-H	-19.3	2.7	-80.80524	11.30436
1GT0-C	-27.9	19.4	-116.81172	81.22392
1GT0-D	-17.7	5.2	-74.10636	21.77136
1H8A-A,B	-52.2	19.3	-218.55096	80.80524
1H8A-C	-33.7	17.7	-141.09516	74.10636
1HBX-A,B	-89	44.8	-372.6252	187.56864
1HBX-G	-28.7	12.9	-120.16116	54.00972
1HJB-D,E	-52.8	18.9	-221.06304	79.13052
1HJB-F	-20.2	4.1	-84.57336	17.16588
1I04-A,B	-51.3	14.8	-214.78284	61.96464
1I04-C	-27.5	4.8	-115.137	20.09664
1JEY-A	-22.4	1.6	-93.78432	6.69888
1JEY-B	-31.5	15.9	-131.8842	66.57012
1JFI-A				
1JFI-B	-16.1	-1.7	-67.40748	-7.11756
1JFI-C	-21.1	4.9	-88.34148	20.51532
1K6O-A	-22.2	10.8	-92.94696	45.21744
1K6O-B,C	-72.2	26.3	-302.28696	110.11284
1K78-A,I	-53.4	6.7	-223.57512	28.05156
1K78-B	-30.9	7.2	-129.37212	30.14496
1LB2-A	-28.3	10.3	-118.48644	43.12404
1LB2-B,E	-20.4	2.4	-85.41072	10.04832
1LE5-A	-17.4	6.4	-72.85032	26.79552
1LE5-B	-24	10.6	-100.4832	44.38008
1LE8-A	-20.8	8.2	-87.08544	34.33176
1LE8-B	-18.5	4.4	-77.4558	18.42192
1MDM-A	-38.6	27.1	-161.61048	113.46228
1MDM-B	-28.1	5.9	-117.64908	24.70212
1MNM-A,B	-76.4	28.6	-319.87152	119.74248
1MNM-C,D	-22.4	7.2	-93.78432	30.14496
1N6J-A,B	-65.3	13.4	-273.39804	56.10312
1N6J-G				
1NGM-A	-25.5	8.6	-106.7634	36.00648
1NGM-B				
1NH2-A,B	1.6	2.7	6.69888	11.30436
1NH2-B,C	-17.2	21.1	-72.01296	88.34148
1NKP-A	-25.4	11.2	-106.34472	46.89216
1NKP-B	-27.9	12.5	-116.81172	52.335
1NLW-A	-27.9	12.5	-116.81172	52.335
1NLW-B	-26.2	10.4	-109.69416	43.54272
1O4X-A				
1O4X-B				
1OUZ-A	-31.2	15.7	-130.62816	65.73276
1OUZ-B	-29.2	10.7	-122.25456	44.79876
1PUF-A	-22.8	17.5	-95.45904	73.269
1PUF-B	-16.2	4.7	-67.82616	19.67796
1R0O-A	-23.2	8.8	-97.13376	36.84384
1R0O-B	-18.4	2.6	-77.03712	10.88568
1RIO-A,B	-75.3	53.9	-315.26604	225.66852
1RIO-H	-35	5.1	-146.538	21.35268
1RZR-A,D	-114.4	32.2	-478.96992	134.81496

1RZR-S,Y				
1T2K-A,B	-58.3	11	-244.09044	46.0548
1T2K-C,D	-55.5	8.8	-232.3674	36.84384
1TQE-S,R	-69.4	18.1	-290.56392	75.78108
1TQE-Y				
1X9M-A	-27.4	12.2	-114.71832	51.07896
1X9M-B	-0.6	2.8	-2.51208	11.72304
1XS9-A				
1XS9-D				
1YNW-A	-24.9	6.7	-104.25132	28.05156
1YNW-B	-60	4.2	-251.208	17.58456
2AS5-F				
2AS5-N	-25.4	11.6	-106.34472	48.56688
2BSQ-A	-6.6	34.7	-27.63288	145.28196
2BSQ-E	-6.6	34.7	-27.63288	145.28196
2F8X-C	-25	9.5	-104.67	39.7746
2F8X-K				
2F8X-M				
2FO1-A	-21.4	7.1	-89.59752	29.72628
2FO1-E				
2NLL-A	-11.5	-0.8	-48.1482	-3.34944
2NLL-B	-16.7	10.4	-69.91956	43.54272