

PDB code	ΔG	Kd	Affinity class	Predicted ΔG	Predicted class	MAE
1a22	-13	3.40E-10	1	-11.0546	1	1.9454
1a2k	-9.37	1.50E-07	0	-8.3121	0	1.0579
1a4y	-20.59	1.00E-15	1	-15.3813	1	5.2087
1atn	-12.83	4.50E-10	1	-11.271	1	1.559
1ava	-13.26	2.20E-10	1	-10.440942	0	2.81906
1avg	-15.82	3.00E-12	1	-11.007667	1	4.81233
1axi	-10.78	1.40E-08	0	-9.4711	0	1.3089
1ay7	-8.24	1.00E-06	0	-9.3799133	0	1.13991
1b27	-19.22	1.00E-14	1	-11.609108	1	7.61089
1b2s	-13.46	1.57E-10	1	-11.609108	1	1.85089
1b2u	-9.61	1.00E-07	0	-11.609108	1	1.99911
1b3s	-13.63	1.17E-10	1	-11.609108	1	2.02089
1brs	-19.06	1.30E-14	1	-11.609108	1	7.45089
1bvn	-15.16	9.00E-12	1	-13.8048	1	1.3552
1cn4	-8.24	1.00E-06	0	-9.3136	0	1.0736
1dhk	-14.35	3.50E-11	1	-12.9141	1	1.4359
1dp5	-12.42	9.00E-10	1	-11.9101	1	0.5099
1dpj	-11.7	3.00E-09	1	-11.9101	1	0.2101
1du3	-10.71	1.59E-08	0	-10.0406	0	0.6694
1e6e	-8.33	8.60E-07	0	-7.3355	0	0.9945
1eaw	-14.14	4.97E-11	1	-13.079	1	1.061
1eer	-12.35	1.00E-09	1	-11.0318	1	1.3182
1f34	-13.73	1.00E-10	1	-12.59121	1	1.13879
1f3v	-7.01	7.80E-06	0	-9.2398417	0	2.22984
1ffw	-8.13	1.20E-06	0	-8.8208	0	0.6908
1fg9	-13.73	1.00E-10	1	-11.6717	1	2.0583
1fle	-11.29	6.00E-09	1	-8.997155	0	2.29285
1g0v	-13.73	1.00E-10	1	-12.9284	1	0.8016
1gcq	-6.55	1.68E-05	0	-9.9279	0	3.3779
1gla	-9.26	1.80E-07	0	-8.0083667	0	1.25163
1gng	-10.17	3.90E-08	0	-9.4932	0	0.6768
1go4	-8.21	1.04E-06	0	-8.4889357	0	0.27894
1gpw	-10.6	1.90E-08	0	-8.5757	0	2.0243
1gxd	-11.37	5.20E-09	1	-10.864517	0	0.50548
1h1v	-10.49	2.30E-08	0	-8.7956	0	1.6944
1h59	-10.2	3.70E-08	0	-11.1285	1	0.9285
1i4e	-9.5	1.20E-07	0	-9.3285	0	0.1715
1i5l	-8.51	6.30E-07	0	-8.9598	0	0.4498
1i5k	-10.13	4.20E-08	0	-11.164707	1	1.03471
1i8l	-9.2	2.00E-07	0	-9.0979	0	0.1021
1icf	-16.16	1.70E-12	1	-10.491482	0	5.66852
1id5	-12.11	1.50E-09	1	-10.437899	0	1.6721
1j7d	-7.82	2.00E-06	0	-8.79815	0	0.97815
1j7v	-14.35	3.50E-11	1	-11.0012	1	3.3488

ljgn	-8.86	3.50E-07	0	-9.7866	0	0.9266
ljh4	-7.99	1.50E-06	0	-8.8919333	0	0.90193
ljiw	-15.65	4.00E-12	1	-13.5125	1	2.1375
ljsp	-5.9	5.00E-05	0	-7.6052333	0	1.70523
ljwh	-10.84	1.26E-08	0	-10.1525	0	0.6875
lkac	-10.75	1.48E-08	0	-10.1558	0	0.5942
lkig	-13.38	1.80E-10	1	-11.7311	1	1.6489
lkl	-10.09	4.50E-08	0	-10.5146	0	0.4246
lktk	-6.45	2.00E-05	0	-9.5523	0	3.1023
lktz	-8.97	2.90E-07	0	-9.5144	0	0.5444
lkxp	-12.35	1.00E-09	1	-8.9655	0	3.3845
ll2w	-13.07	3.00E-10	1	-11.7136	1	1.3564
ll4d	-9.21	1.97E-07	0	-8.9355	0	0.2745
llj2	-6.27	2.70E-05	0	-7.8003	0	1.5303
llqs	-11.53	4.00E-09	1	-7.3487	0	4.1813
llw6	-16.06	2.00E-12	1	-13.2854	1	2.7746
llzw	-8.9	3.30E-07	0	-8.7972	0	0.1028
lm10	-11.31	5.80E-09	1	-10.545257	0	0.76474
lm1e	-12.35	1.00E-09	1	-11.662	1	0.688
lm5n	-11.91	2.10E-09	1	-11.1038	1	0.8062
lmah	-14.55	2.50E-11	1	-13.7458	1	0.8042
lnb5	-13.95	6.90E-11	1	-11.534868	1	2.41513
lnm5	-9.91	6.00E-08	0	-10.231637	0	0.32164
lnw9	-10.83	1.30E-08	0	-10.1068	0	0.7232
lo9a	-8.24	1.00E-06	0	-7.8706	0	0.3694
loc0	-12.35	1.00E-09	1	-7.23675	0	5.11325
loey	-11.53	4.00E-09	1	-10.604	0	0.926
logy	-12.77	5.00E-10	1	-11.0465	1	1.7235
loqe	-9.56	1.09E-07	0	-9.9612	0	0.4012
lozs	-6.19	3.10E-05	0	-7.2322	0	1.0422
lp27	-12.57	7.00E-10	1	-12.3235	1	0.2465
lp4b	-14.27	4.00E-11	1	-13.1388	1	1.1312
lp69	-9.77	7.60E-08	0	-9.8226	0	0.0526
lp6a	-10.23	3.50E-08	0	-9.9564	0	0.2736
lpk1	-9.98	5.40E-08	0	-9.3358	0	0.6442
lpvh	-9.74	8.00E-08	0	-9.8316	0	0.0916
lpxv	-13.05	3.10E-10	1	-10.986827	1	2.06317
lqa9	-8.24	1.00E-06	0	-11.0109	1	2.7709
lr6q	-8.9	3.30E-07	0	-8.7972	0	0.1028
lr1b	-8.37	8.00E-07	0	-8.4038	0	0.0338
ls4y	-11.21	6.87E-09	1	-10.6235	0	0.5865
lsg1	-9.24	1.86E-07	0	-9.6156	0	0.3756
lshy	-9.67	9.00E-08	0	-9.3131	0	0.3569
lsq0	-10.33	3.00E-08	0	-10.545257	0	0.21526
lsv0	-10.92	1.11E-08	0	-6.9962	0	3.9238
lt5z	-6.15	3.30E-05	0	-7.1449	0	0.9949

1t63	-6.62	1.50E-05	0	-7.5307	0	0.9107
1t6b	-12.9	4.00E-10	1	-8.9201	0	3.9799
1ta3	-11.04	9.00E-09	1	-10.98748	1	0.05252
1tba	-12.35	1.00E-09	1	-9.3569	0	2.9931
1tbq	-17.43	2.00E-13	1	-16.2049	1	1.2251
1tdq	-10.87	1.20E-08	0	-11.119642	1	0.24964
1tel	-11.62	3.40E-09	1	-12.304	1	0.684
1tlh	-4.84	0.0003	0	-6.5982	0	1.7582
1toc	-16.47	1.00E-12	1	-14.7453	1	1.7247
1ty4	-11.25	6.40E-09	1	-8.9668	0	2.2832
1tzn	-13.41	1.70E-10	1	-7.548	0	5.862
1u0s	-9.11	2.30E-07	0	-9.5162	0	0.4062
1u5s	-3.46	0.003	0	-6.2003	0	2.7403
1u7v	-8.96	2.96E-07	0	-8.68795	0	0.27205
1uad	-9.42	1.37E-07	0	-9.5157	0	0.0957
1ul1	-9.91	6.00E-08	0	-9.5864607	0	0.32354
1uuz	-10.44	2.50E-08	0	-10.019725	0	0.42028
1v18	-10.98	1.00E-08	0	-10.610935	0	0.36907
1vet	-10.83	1.28E-08	0	-10.3969	0	0.4331
1vg0	-11.39	5.00E-09	1	-11.1501	1	0.2399
1vrc	-6.24	2.84E-05	0	-7.2214	0	0.9814
1vyh	-9.74	8.00E-08	0	-8.7804	0	0.9596
1wlw	-4.92	0.00026	0	-10.396873	0	5.47687
1wa8	-10.92	1.10E-08	0	-9.3948	0	1.5252
1wdw	-10.77	1.43E-08	0	-10.6573	0	0.1127
1wlp	-8.5	6.40E-07	0	-10.2085	0	1.7085
1wpx	-12	1.80E-09	1	-10.9425	1	1.0575
1wve	-11.19	7.00E-09	1	-10.584	0	0.606
1x1u	-10.82	1.32E-08	0	-9.5549409	0	1.26506
1x1w	-10.4	2.64E-08	0	-9.5549409	0	0.84506
1x1x	-9.99	5.30E-08	0	-9.5549409	0	0.43506
1x1y	-6.72	1.27E-05	0	-9.5549409	0	2.83494
1x75	-10.65	1.75E-08	0	-11.8832	1	1.2332
1xdt	-10.98	1.00E-08	0	-10.06807	0	0.91193
1xg2	-11.39	5.00E-09	1	-9.56631	0	1.82369
1xqh	-9.2	2.00E-07	0	-8.6679	0	0.5321
1xr0	-6.86	1.00E-05	0	-7.5539	0	0.6939
1y6k	-12.35	1.00E-09	1	-11.2415	1	1.1085
1y76	-7.28	5.00E-06	0	-7.2689	0	0.0111
1ycs	-10.33	3.00E-08	0	-9.8056	0	0.5244
1yk0	-12.38	9.60E-10	1	-12.1028	1	0.2772
1yk1	-10.08	4.57E-08	0	-10.561	0	0.481
1yvb	-11.24	6.50E-09	1	-12.37745	1	1.13745
1z0k	-7.02	7.70E-06	0	-9.2642	0	2.2442
1z7x	-21.33	2.90E-16	1	-17.6987	1	3.6313
1z92	-10.98	1.00E-08	0	-11.9868	1	1.0068

1zc3	-10.13	4.20E-08	0	-9.892	0	0.238
1zhi	-9.2	2.00E-07	0	-8.5467	0	0.6533
1zm4	-8.25	9.80E-07	0	-8.5855	0	0.3355
2a24	-6.21	3.00E-05	0	-6.7562	0	0.5462
2a78	-9.91	6.00E-08	0	-9.8566	0	0.0534
2a7u	-9.5	1.20E-07	0	-10.0174	0	0.5174
2a9h	-8.3	9.00E-07	0	-10.2245	0	1.9245
2a9k	-9.91	6.00E-08	0	-10.1689	0	0.2589
2ajf	-10.98	1.00E-08	0	-10.7043	0	0.2757
2arp	-8.74	4.30E-07	0	-8.9994	0	0.2594
2aw2	-10.44	2.50E-08	0	-10.5589	0	0.1189
2b0z	-5.49	0.0001	0	-7.4734	0	1.9834
2b10	-6.86	1.00E-05	0	-7.4734	0	0.6134
2b11	-7.28	5.00E-06	0	-7.4734	0	0.1934
2b12	-6.45	2.00E-05	0	-7.4734	0	1.0234
2b2w	-7.28	5.00E-06	0	-7.87599	0	0.59599
2b4j	-10.93	1.09E-08	0	-10.52215	0	0.40785
2b7c	-8.78	4.00E-07	0	-11.2406	1	2.4606
2bo9	-11.7	3.00E-09	1	-8.1882233	0	3.51178
2bp7	-12.35	1.00E-09	1	-11.633142	1	0.71686
2bqz	-6.45	2.00E-05	0	-7.6233821	0	1.17338
2byk	-7.74	2.30E-06	0	-8.027025	0	0.28703
2c0l	-9.56	1.09E-07	0	-8.624	0	0.936
2c1t	-11.94	2.00E-09	1	-8.5013	0	3.4387
2c5d	-11.29	6.00E-09	1	-10.6255	0	0.6645
2cjs	-9.61	1.00E-07	0	-9.5329	0	0.0771
2djy	-6.04	4.00E-05	0	-8.4924	0	2.4524
2efd	-11.17	7.30E-09	1	-7.8751	0	3.2949
2efh	-10.22	3.60E-08	0	-7.8404	0	2.3796
2es4	-11.39	5.00E-09	1	-9.465	0	1.925
2f4m	-9.87	6.50E-08	0	-9.8862267	0	0.01623
2f5z	-12.5	7.80E-10	1	-9.8621	0	2.6379
2f9z	-8.3	9.00E-07	0	-9.1719533	0	0.87195
2fyl	-7.62	2.80E-06	0	-9.0726	0	1.4526
2g2u	-8.1	1.25E-06	0	-9.482195	0	1.38219
2g2w	-8.56	5.82E-07	0	-9.482195	0	0.92219
2gh0	-9.67	9.00E-08	0	-9.9077	0	0.2377
2h4m	-10.13	4.20E-08	0	-9.6688	0	0.4612
2hqs	-10.39	2.70E-08	0	-9.6949	0	0.6951
2hrk	-11.04	9.00E-09	1	-10.70004	0	0.33996
2i3s	-7.47	3.60E-06	0	-7.9087	0	0.4387
2i3t	-7.64	2.70E-06	0	-8.5191	0	0.8791
2ihs	-10.16	4.00E-08	0	-8.7575667	0	1.40243
2ij0	-13.38	1.80E-10	1	-12.192778	1	1.18722
2iy1	-8.38	7.87E-07	0	-8.845	0	0.465
2iyb	-7.47	3.60E-06	0	-8.2654	0	0.7954

2j12	-10.57	2.00E-08	0	-11.2307	1	0.6607
2j1k	-12.3	1.10E-09	1	-11.3054	1	0.9946
2j7p	-10.98	1.00E-08	0	-10.2868	0	0.6932
2jjs	-8.13	1.20E-06	0	-8.770575	0	0.64057
2jod	-8.86	3.50E-07	0	-9.1038	0	0.2438
2jti	-8.55	5.88E-07	0	-8.4065	0	0.1435
2ju0	-9.61	1.00E-07	0	-9.936	0	0.326
2k05	-9.2	2.00E-07	0	-9.3027	0	0.1027
2k2s	-9.99	5.30E-08	0	-8.888	0	1.102
2k2u	-8.85	3.60E-07	0	-9.8835	0	1.0335
2k42	-10.23	3.50E-08	0	-10.3013	0	0.0713
2k5b	-7.41	4.00E-06	0	-7.6411	0	0.2311
2kbw	-8.92	3.20E-07	0	-9.2196	0	0.2996
2kc8	-9.2	2.00E-07	0	-9.8670608	0	0.66706
2knb	-6.81	1.10E-05	0	-7.69515	0	0.88515
2kqs	-5.84	5.53E-05	0	-7.1818833	0	1.34188
2kri	-5.95	4.60E-05	0	-8.82915	0	2.87915
2kvq	-5.9	5.00E-05	0	-6.8441	0	0.9441
2kwj	-8.65	5.00E-07	0	-8.7595353	0	0.10954
2kwk	-7.74	2.30E-06	0	-8.7595353	0	1.01954
2kwo	-5.94	4.69E-05	0	-7.538025	0	1.59803
2kxh	-6.66	1.40E-05	0	-7.2773	0	0.6173
2l29	-10.73	1.53E-08	0	-12.48249	1	1.75249
2l2l	-10.85	1.24E-08	0	-10.3376	0	0.5124
2l9s	-7.77	2.20E-06	0	-8.7272	0	0.9572
2ld7	-11.03	9.20E-09	1	-10.2303	0	0.7997
2leh	-11.64	3.30E-09	1	-11.3283	1	0.3117
2lfw	-11.33	5.60E-09	1	-10.3547	0	0.9753
2lkm	-10.87	1.20E-08	0	-9.6928	0	1.1772
2lnk	-11.53	4.00E-09	1	-8.89191	0	2.63809
2lox	-9.23	1.90E-07	0	-9.2564	0	0.0264
2lp0	-6.39	2.22E-05	0	-9.9029	0	3.5129
2lp4	-3.29	0.004	0	-6.5403	0	3.2503
2lpb	-6.86	1.01E-05	0	-7.1391	0	0.2791
2luh	-8.45	7.00E-07	0	-8.964	0	0.514
2lxm	-13.86	8.00E-11	1	-12.987762	1	0.87224
2lxp	-10.19	3.80E-08	0	-10.069	0	0.121
2ly4	-8.87	3.46E-07	0	-9.0405233	0	0.17052
2m0g	-9.71	8.40E-08	0	-7.21885	0	2.49115
2m5b	-6.86	1.00E-05	0	-7.2745	0	0.4145
2mak	-4.82	0.00031	0	-7.0054	0	2.1854
2mlx	-7.41	4.00E-06	0	-7.308925	0	0.10108
2mly	-7.82	2.00E-06	0	-7.308925	0	0.51108
2mlz	-6.66	1.40E-05	0	-7.308925	0	0.64893
2mp0	-2.2	0.025	0	-4.7567667	0	2.55677
2mur	-6.91	9.26E-06	0	-7.4222	0	0.5122

2mv7	-12.09	1.56E-09	1	-10.5586	0	1.5314
2n01	-8.24	1.00E-06	0	-9.2486817	0	1.00868
2n1d	-9.91	6.00E-08	0	-9.9719333	0	0.06193
2n2h	-8.28	9.30E-07	0	-8.7998267	0	0.51983
2n73	-8.92	3.20E-07	0	-10.86594	0	1.94594
2nbv	-6.91	9.30E-06	0	-7.9771	0	1.0671
2noj	-10.83	1.30E-08	0	-9.5518	0	1.2782
2nqd	-14.29	3.90E-11	1	-12.9436	1	1.3464
2nyz	-12.42	9.00E-10	1	-11.4723	1	0.9477
2nz1	-10.63	1.80E-08	0	-11.2205	1	0.5905
2o3b	-15.78	3.20E-12	1	-13.6245	1	2.1555
2o8v	-8.18	1.10E-06	0	-9.920675	0	1.74067
2o98	-12.45	8.50E-10	1	-8.6709	0	3.7791
2odg	-8.55	5.90E-07	0	-8.5310133	0	0.01899
2omw	-6.86	1.00E-05	0	-7.74795	0	0.88795
2ot3	-7.89	1.80E-06	0	-8.5195333	0	0.62953
2ot8	-10.57	2.00E-08	0	-9.42445	0	1.14555
2p5t	-12.35	1.00E-09	1	-10.729165	0	1.62084
2p8q	-10.72	1.56E-08	0	-10.4373	0	0.2827
2pcc	-7.96	1.60E-06	0	-8.4065	0	0.4465
2pkg	-8.2	1.06E-06	0	-9.4378167	0	1.23782
2pms	-10.96	1.03E-08	0	-9.08685	0	1.87315
2pop	-7.38	4.20E-06	0	-8.29455	0	0.91455
2ptt	-7.41	4.00E-06	0	-8.4919	0	1.0819
2q0o	-10.74	1.49E-08	0	-9.9694	0	0.7706
2q5d	-10.72	1.56E-08	0	-10.2371	0	0.4829
2q7n	-15.1	1.00E-11	1	-8.9944	0	6.1056
2qiy	-9.51	1.19E-07	0	-8.2885	0	1.2215
2qj9	-11.83	2.40E-09	1	-11.4033	1	0.4267
2qja	-12.3	1.10E-09	1	-11.2713	1	1.0287
2qjb	-11.41	4.90E-09	1	-11.2443	1	0.1657
2qna	-9.72	8.30E-08	0	-9.839	0	0.119
2q xv	-8.81	3.80E-07	0	-8.8226	0	0.0126
2r9p	-6.66	1.40E-05	0	-7.6093889	0	0.94939
2rms	-9.43	1.34E-07	0	-10.2303	0	0.8003
2rnr	-9.37	1.50E-07	0	-9.1304	0	0.2396
2roz	-8.92	3.20E-07	0	-8.8324	0	0.0876
2rr3	-7.79	2.10E-06	0	-8.3542	0	0.5642
2ruk	-6.34	2.42E-05	0	-9.9754	0	3.6354
2rvb	-9.39	1.43E-07	0	-9.1398	0	0.2502
2sic	-13.93	7.12E-11	1	-12.090308	1	1.83969
2sni	-16.06	2.00E-12	1	-14.476133	1	1.58387
2v3b	-7.28	5.00E-06	0	-11.630907	1	4.35091
2v51	-8.24	1.00E-06	0	-9.1417	0	0.9017
2v52	-7.85	1.90E-06	0	-9.1417	0	1.2917
2v6x	-6.25	2.80E-05	0	-7.3829833	0	1.13298

2v8s	-6.39	2.20E-05	0	-7.4589333	0	1.06893
2v9t	-11.1	8.20E-09	1	-10.257925	0	0.84207
2vda	-7.58	3.00E-06	0	-11.3635	1	3.7835
2vdb	-13.49	1.50E-10	1	-11.4718	1	2.0182
2ver	-6.7	1.31E-05	0	-7.238461	0	0.53846
2ver	-6.7	1.31E-05	0	-7.7424	0	1.0424
2w19	-9.41	1.40E-07	0	-8.6701	0	0.7399
2w2m	-9.21	1.96E-07	0	-8.9826	0	0.2274
2w84	-9.82	7.00E-08	0	-9.6054	0	0.2146
2w8b	-10.19	3.80E-08	0	-11.1278	1	0.9378
2wby	-10.57	2.00E-08	0	-10.0796	0	0.4904
2wd5	-10.51	2.20E-08	0	-9.382	0	1.128
2wh6	-10.63	1.80E-08	0	-13.1512	1	2.5212
2wii	-6.81	1.10E-05	0	-7.6575	0	0.8475
2wjv	-9.2	2.00E-07	0	-8.1127	0	1.0873
2wp0	-8.28	9.30E-07	0	-8.9195	0	0.6395
2wpt	-9.61	1.00E-07	0	-10.614263	0	1.00426
2wus	-7.28	5.00E-06	0	-8.7017	0	1.4217
2wvw	-7.82	2.00E-06	0	-8.26034	0	0.44034
2wy2	-3.96	0.0013	0	-10.10553	0	6.14553
2wy3	-9.86	6.60E-08	0	-9.7985	0	0.0615
2x1w	-10.7	1.60E-08	0	-10.3137	0	0.3863
2x9a	-7.35	4.40E-06	0	-7.5826	0	0.2326
2xa0	-10.23	3.53E-08	0	-10.3615	0	0.1315
2xdf	-6.42	2.10E-05	0	-12.62455	1	6.20455
2xhe	-11.54	3.90E-09	1	-10.5232	0	1.0168
2xqr	-10.31	3.10E-08	0	-10.03394	0	0.27606
2xqw	-9.26	1.80E-07	0	-10.93676	1	1.67676
2xze	-9.54	1.13E-07	0	-9.1455	0	0.3945
2y8s	-12.36	9.89E-10	1	-11.325792	1	1.03421
2y8t	-10.97	1.02E-08	0	-11.325792	1	0.35579
2y9m	-11.94	2.00E-09	1	-11.3203	1	0.6197
2yvj	-4.85	0.00029	0	-7.8576667	0	3.00767
2z34	-8.31	8.90E-07	0	-8.5444	0	0.2344
2za4	-13.53	1.40E-10	1	-12.255314	1	1.27469
3ajb	-10.14	4.08E-08	0	-10.3633	0	0.2233
3alz	-8.63	5.20E-07	0	-8.9302	0	0.3002
3aon	-11.66	3.20E-09	1	-11.2346	1	0.4254
3beg	-10.02	5.00E-08	0	-9.6703	0	0.3497
3bik	-7	8.00E-06	0	-7.97344	0	0.97344
3biw	-9.63	9.70E-08	0	-9.5682	0	0.0618
3bk3	-10.51	2.20E-08	0	-10.0553	0	0.4547
3blh	-8.95	3.00E-07	0	-9.3213	0	0.3713
3bn3	-6.45	2.00E-05	0	-7.2542	0	0.8042
3bp8	-11.51	4.14E-09	1	-10.5367	0	0.9733
3bs5	-9.66	9.25E-08	0	-14.1506	1	4.4906

3c4o	-11.44	4.60E-09	1	-11.132685	1	0.30731
3c4p	-11.47	4.40E-09	1	-11.132685	1	0.33732
3c66	-7.58	3.00E-06	0	-9.1483	0	1.5683
3c9a	-11.14	7.70E-09	1	-10.5216	0	0.6184
3cqc	-11.53	4.00E-09	1	-10.7688	0	0.7612
3crk	-6.97	8.30E-06	0	-8.8342	0	1.8642
3cx6	-7.3	4.80E-06	0	-8.0081	0	0.7081
3cx7	-8.63	5.20E-07	0	-8.5758	0	0.0542
3cx8	-8.88	3.40E-07	0	-8.7864	0	0.0936
3d5o	-8.24	1.00E-06	0	-9.8898518	0	1.64985
3d5r	-10.6	1.90E-08	0	-10.0126	0	0.5874
3d5s	-10.41	2.60E-08	0	-10.0126	0	0.3974
3da7	-9.45	1.30E-07	0	-10.1777	0	0.7277
3dgc	-12.35	1.00E-09	1	-11.0883	1	1.2617
3di2	-6.51	1.80E-05	0	-8.0774	0	1.5674
3di3	-10.54	2.10E-08	0	-10.0514	0	0.4886
3doe	-10.57	2.00E-08	0	-10.611675	0	0.04167
3dvu	-9.2	2.00E-07	0	-10.2892	0	1.0892
3e1z	-14.34	3.60E-11	1	-9.9786433	0	4.36136
3e2u	-7.74	2.30E-06	0	-9.2442	0	1.5042
3eab	-6.75	1.20E-05	0	-7.35025	0	0.60025
3ech	-8.95	3.00E-07	0	-11.79655	1	2.84655
3egg	-11.06	8.70E-09	1	-10.4222	0	0.6378
3ejh	-7.28	5.00E-06	0	-7.7871	0	0.5071
3eoy	-11.74	2.80E-09	1	-9.6868	0	2.0532
3f1p	-5.38	0.00012	0	-6.281	0	0.901
3f5c	-8.3	9.00E-07	0	-10.161	0	1.861
3f7p	-5.92	4.90E-05	0	-6.6924	0	0.7724
3fhc	-10.52	2.16E-08	0	-7.9736	0	2.5464
3fpu	-13.62	1.20E-10	1	-12.5548	1	1.0652
3g7z	-14.69	2.00E-11	1	-13.62595	1	1.06405
3g9v	-16.47	1.00E-12	1	-14.2483	1	2.2217
3gb8	-7.12	6.50E-06	0	-7.3403	0	0.2203
3gc3	-7.79	2.10E-06	0	-8.2331	0	0.4431
3gd1	-8.25	9.80E-07	0	-8.3461	0	0.0961
3gni	-10.87	1.20E-08	0	-10.379183	0	0.49082
3gqi	-10.27	3.30E-08	0	-9.3158	0	0.9542
3gs2	-11.03	9.20E-09	1	-10.207867	0	0.82213
3gty	-12.8	4.70E-10	1	-13.0564	1	0.2564
3h8k	-10.54	2.10E-08	0	-9.9125	0	0.6275
3hct	-8	1.48E-06	0	-9.7771	0	1.7771
3ho5	-9.14	2.20E-07	0	-9.4888	0	0.3488
3hpw	-6.71	1.30E-05	0	-9.1577	0	2.4477
3htu	-7.89	1.80E-06	0	-9.4517	0	1.5617
3hug	-10.57	2.00E-08	0	-9.836825	0	0.73317
3ia3	-9.65	9.30E-08	0	-8.6987	0	0.9513

3im4	-10.05	4.80E-08	0	-10.2676	0	0.2176
3inb	-9.2	2.00E-07	0	-9.0315	0	0.1685
3it8	-14.23	4.30E-11	1	-13.0145	1	1.2155
3ixs	-9.67	9.00E-08	0	-10.1432	0	0.4732
3jvf	-8.97	2.92E-07	0	-10.2621	0	1.2921
3k1r	-12.35	1.00E-09	1	-11.73168	1	0.61832
3k6g	-10.68	1.65E-08	0	-10.68764	0	0.00764
3k75	-9.55	1.10E-07	0	-12.1515	1	2.6015
3k8p	-10.98	1.00E-08	0	-10.3679	0	0.6121
3k9m	-11.94	2.00E-09	1	-11.813525	1	0.12647
3kbt	-11.03	9.29E-09	1	-10.657425	0	0.37257
3kyi	-5.03	0.00022	0	-12.6576	1	7.6276
3l5n	-9.26	1.80E-07	0	-12.62015	1	3.36015
3l89	-8.99	2.84E-07	0	-9.0361667	0	0.04617
3l9j	-13	3.40E-10	1	-8.7059	0	4.2941
3lb6	-15.55	4.70E-12	1	-13.0809	1	2.4691
3lb8	-5.74	6.60E-05	0	-7.7074	0	1.9674
3lbx	-8.78	4.00E-07	0	-8.5879	0	0.1921
3lms	-12.25	1.20E-09	1	-11.206	1	1.044
3lqa	-7.96	1.60E-06	0	-8.3274	0	0.3674
3m18	-13.38	1.80E-10	1	-12.1383	1	1.2417
3m63	-9.28	1.75E-07	0	-8.9539	0	0.3261
3m9d	-7.51	3.40E-06	0	-10.0023	0	2.4923
3mca	-8.8	3.90E-07	0	-9.3421	0	0.5421
3mzg	-3.16	0.00497	0	-3.1942	0	0.0342
3n06	-3.44	0.0031	0	-3.3035	0	0.1365
3n0p	-3.15	0.0051	0	-2.9535	0	0.1965
3n4i	-12.3	1.10E-09	1	-11.6051	1	0.6949
3ncb	-1.42	0.093	0	-2.1594	0	0.7394
3ncc	-0.92	0.212	0	-2.0842	0	1.1642
3nvn	-11.02	9.40E-09	1	-8.6365	0	2.3835
3nvq	-8.97	2.90E-07	0	-9.014	0	0.044
3o34	-6.94	8.80E-06	0	-7.9422	0	1.0022
3o5t	-7.99	1.50E-06	0	-9.1548	0	1.1648
3o6b	-9.12	2.27E-07	0	-9.4473	0	0.3273
3o6q	-12.82	4.60E-10	1	-9.3386	0	3.4814
3oak	-9.29	1.70E-07	0	-9.4839	0	0.1939
3oed	-8.65	5.00E-07	0	-8.7237	0	0.0737
3oiq	-7.44	3.80E-06	0	-7.7547	0	0.3147
3oky	-8.08	1.30E-06	0	-8.9649	0	0.8849
3ol2	-7.22	5.50E-06	0	-9.1494	0	1.9294
3ona	-8.47	6.80E-07	0	-9.9262	0	1.4562
3onl	-6.75	1.20E-05	0	-10.1733	0	3.4233
3oun	-9.93	5.80E-08	0	-9.8597	0	0.0703
3ouw	-10.49	2.30E-08	0	-9.7463	0	0.7437
3oux	-10.23	3.50E-08	0	-9.7592	0	0.4708

3owt	-7.69	2.49E-06	0	-7.9738	0	0.2838
3oxu	-6.13	3.40E-05	0	-8.0458	0	1.9158
3p92	-11.3	5.90E-09	1	-7.6093889	0	3.69061
3p95	-7.99	1.50E-06	0	-7.6093889	0	0.38061
3q4f	-7.4	4.10E-06	0	-8.0932	0	0.6932
3qbt	-8.3	9.00E-07	0	-8.6468	0	0.3468
3qc8	-6.8	1.12E-05	0	-7.5961	0	0.7961
3qhy	-16.42	1.10E-12	1	-14.8662	1	1.5538
3qml	-10.83	1.30E-08	0	-10.4429	0	0.3871
3qq8	-7.99	1.50E-06	0	-8.2127	0	0.2227
3qs7	-10.16	4.00E-08	0	-9.524	0	0.636
3qt2	-11.97	1.90E-09	1	-11.5164	1	0.4536
3qwr	-11.94	2.00E-09	1	-12.1446	1	0.2046
3r9a	-7.49	3.50E-06	0	-8.0038	0	0.5138
3rgf	-11.19	7.05E-09	1	-8.7268917	0	2.46311
3s2k	-9.81	7.15E-08	0	-9.5983	0	0.2117
3s8v	-10.02	5.00E-08	0	-9.7498	0	0.2702
3sf4	-11.83	2.40E-09	1	-8.3924	0	3.4376
3sgb	-14.75	1.79E-11	1	-10.742767	0	4.00723
3sip	-8.24	1.00E-06	0	-9.2551	0	1.0151
3sja	-10.67	1.70E-08	0	-10.1742	0	0.4958
3sjd	-10.31	3.10E-08	0	-10.437	0	0.127
3sku	-9.82	7.00E-08	0	-9.491	0	0.329
3syn	-8.54	6.00E-07	0	-8.5972	0	0.0572
3t1q	-7.28	5.00E-06	0	-9.1062774	0	1.82628
3t6g	-10.33	3.00E-08	0	-9.5536	0	0.7764
3tac	-8.59	5.50E-07	0	-9.0301057	0	0.44011
3tu3	-9.94	5.70E-08	0	-9.0441433	0	0.89586
3twi	-8.54	6.00E-07	0	-8.9259	0	0.3859
3tz1	-9.4	1.41E-07	0	-8.6047	0	0.7953
3u9z	-7.98	1.54E-06	0	-8.662	0	0.682
3uez	-15.93	2.50E-12	1	-10.8282	0	5.1018
3uz0	-8.58	5.60E-07	0	-9.0149	0	0.4349
3v3k	-10.17	3.87E-08	0	-10.005882	0	0.16412
3v4y	-10.64	1.78E-08	0	-9.8750667	0	0.76493
3v6b	-9	2.80E-07	0	-11.00066	1	2.00066
3vep	-6.85	1.03E-05	0	-8.5346	0	1.6846
3vfn	-5.11	0.00019	0	-5.6396	0	0.5296
3vfo	-5.08	0.0002	0	-5.6396	0	0.5596
3vfp	-5.61	8.17E-05	0	-5.6396	0	0.0296
3vfr	-5.39	0.00012	0	-5.6396	0	0.2496
3vpj	-11.75	2.77E-09	1	-10.692	0	1.058
3vyr	-9.41	1.40E-07	0	-9.2225	0	0.1875
3w6j	-9.95	5.60E-08	0	-9.7953	0	0.1547
3wa5	-10.37	2.81E-08	0	-9.6818	0	0.6882
3wkt	-9.61	1.00E-07	0	-9.1339	0	0.4761

3wn7	-11.17	7.31E-09	1	-10.390067	0	0.77993
3wo3	-9.83	6.90E-08	0	-9.8278	0	0.0022
3wqb	-12	1.80E-09	1	-10.37286	0	1.62714
3wrx	-7.79	2.10E-06	0	-8.7552057	0	0.96521
3wry	-8.93	3.10E-07	0	-8.7552057	0	0.17479
3wwn	-7.11	6.62E-06	0	-9.2088	0	2.0988
3wwq	-6.1	3.59E-05	0	-7.3543	0	1.2543
3zet	-8.97	2.90E-07	0	-9.6349425	0	0.66494
3zrz	-14.44	3.00E-11	1	-7.8706	0	6.5694
3zs8	-10.01	5.10E-08	0	-9.7374	0	0.2726
3zs9	-9.37	1.50E-07	0	-8.5745	0	0.7955
3zv0	-5.43	0.00011	0	-8.3709	0	2.9409
3zwh	-7.98	1.54E-06	0	-8.89191	0	0.91191
3zwl	-9.33	1.60E-07	0	-10.721173	0	1.39117
4a94	-15.53	4.90E-12	1	-14.0414	1	1.4886
4ap2	-10.57	2.00E-08	0	-9.5193	0	1.0507
4apf	-8.49	6.50E-07	0	-8.5763	0	0.0863
4apx	-7.6	2.90E-06	0	-7.9244	0	0.3244
4aqe	-7.71	2.40E-06	0	-7.9728	0	0.2628
4asw	-9.61	1.00E-07	0	-9.9230625	0	0.31306
4ayi	-11.94	2.00E-09	1	-11.716482	1	0.22352
4b1v	-8.92	3.20E-07	0	-8.7719	0	0.1481
4b1x	-7.36	4.34E-06	0	-8.7952	0	1.4352
4b1y	-9.02	2.70E-07	0	-8.8015	0	0.2185
4b93	-7.74	2.30E-06	0	-8.7693	0	1.0293
4bd9	-10.31	3.10E-08	0	-10.1443	0	0.1657
4bfi	-8.54	6.00E-07	0	-10.0699	0	1.5299
4bj5	-6.21	3.00E-05	0	-7.4766	0	1.2666
4bkx	-7.28	5.00E-06	0	-8.9382167	0	1.65822
4bpx	-9.06	2.50E-07	0	-8.3709	0	0.6891
4bq6	-10.39	2.70E-08	0	-10.3627	0	0.0273
4bru	-9.2	2.00E-07	0	-9.535	0	0.335
4brw	-10.02	5.00E-08	0	-9.9727	0	0.0473
4bwq	-6.46	1.97E-05	0	-7.0289	0	0.5689
4c2a	-11	9.70E-09	1	-10.3606	0	0.6394
4c2b	-11.04	9.00E-09	1	-10.3606	0	0.6794
4c5g	-8.22	1.03E-06	0	-9.2025	0	0.9825
4c9b	-10.36	2.84E-08	0	-8.4137	0	1.9463
4cc4	-7.23	5.40E-06	0	-9.1929	0	1.9629
4cdk	-7.85	1.90E-06	0	-8.6151	0	0.7651
4cj1	-10.05	4.80E-08	0	-9.24615	0	0.80385
4cj2	-10.92	1.10E-08	0	-10.403933	0	0.51607
4cmm	-8.37	8.00E-07	0	-8.5994	0	0.2294
4ct0	-10.37	2.80E-08	0	-9.0846	0	1.2854
4cu4	-8.13	1.20E-06	0	-10.1619	0	2.0319
4cvw	-14.44	3.00E-11	1	-12.6826	1	1.7574

4d2g	-7.21	5.56E-06	0	-9.3408	0	2.1308
4dbg	-8.63	5.20E-07	0	-8.6193	0	0.0107
4dg4	-7.64	2.70E-06	0	-7.6093889	0	0.03061
4dh2	-10.28	3.26E-08	0	-9.9426167	0	0.33738
4di3	-9.91	6.00E-08	0	-9.7959	0	0.1141
4dm6	-7.99	1.50E-06	0	-8.2963	0	0.3063
4dpg	-9.67	9.00E-08	0	-9.56418	0	0.10582
4dra	-8.14	1.17E-06	0	-9.7634	0	1.6234
4ds8	-7.02	7.70E-06	0	-7.7121	0	0.6921
4dt1	-8.58	5.60E-07	0	-8.4643	0	0.1157
4dvg	-7.58	3.00E-06	0	-9.838	0	2.258
4dx8	-8.11	1.24E-06	0	-8.4255	0	0.3155
4eee	-13.31	2.00E-10	1	-12.3285	1	0.9815
4eoz	-8.24	1.00E-06	0	-8.287	0	0.047
4eqa	-11.83	2.42E-09	1	-10.5051	0	1.3249
4etp	-8.83	3.70E-07	0	-8.6939	0	0.1361
4etw	-7.56	3.10E-06	0	-8.9691	0	1.4091
4euk	-7.4	4.10E-06	0	-7.8495	0	0.4495
4f0a	-7.71	2.40E-06	0	-10.592967	0	2.88297
4f48	-7.54	3.20E-06	0	-10.5918	0	3.0518
4fq0	-8.32	8.70E-07	0	-8.485	0	0.165
4fzv	-10.81	1.33E-08	0	-10.3457	0	0.4643
4g01	-7.51	3.40E-06	0	-7.8404	0	0.3304
4g59	-8.75	4.20E-07	0	-9.9263	0	1.1763
4gaf	-16.12	1.80E-12	1	-8.3894	0	7.7306
4gh7	-11.31	5.77E-09	1	-11.46472	1	0.15472
4gko	-3.88	0.0015	0	-8.6254	0	4.7454
4gla	-6.11	3.53E-05	0	-7.7404447	0	1.63044
4h2s	-6.41	2.15E-05	0	-7.1018	0	0.6918
4h5s	-6.73	1.25E-05	0	-7.7243	0	0.9943
4hfk	-13.14	2.69E-10	1	-12.2472	1	0.8928
4hh3	-8.08	1.30E-06	0	-8.7741667	0	0.69417
4i9x	-11.29	5.96E-09	1	-10.3437	0	0.9463
4ic7	-8.74	4.30E-07	0	-9.0965	0	0.3565
4ilg	-11.41	4.90E-09	1	-10.545257	0	0.86474
4iop	-12.59	6.70E-10	1	-11.6678	1	0.9222
4iu3	-10.54	2.08E-08	0	-9.7487	0	0.7913
4iw4	-8.53	6.10E-07	0	-8.6669	0	0.1369
4j2l	-9.68	8.85E-08	0	-8.8842	0	0.7958
4j6g	-10.69	1.63E-08	0	-9.85902	0	0.83098
4je4	-10.78	1.40E-08	0	-10.404575	0	0.37543
4jeg	-10.87	1.20E-08	0	-10.404575	0	0.46543
4jeh	-11.11	8.10E-09	1	-11.3186	1	0.2086
4jeu	-12.15	1.40E-09	1	-11.3186	1	0.8314
4jra	-10.37	2.80E-08	0	-10.2378	0	0.1322
4k3j	-12.25	1.20E-09	1	-11.58275	1	0.66725

4kbb	-9.26	1.80E-07	0	-9.0726	0	0.1874
4kdi	-8.44	7.10E-07	0	-8.1945	0	0.2455
4kgg	-9.36	1.53E-07	0	-9.4628	0	0.1028
4kgq	-10.22	3.60E-08	0	-9.4628	0	0.7572
4kr0	-10.68	1.67E-08	0	-10.011	0	0.669
4kt1	-9.95	5.65E-08	0	-10.3318	0	0.3818
4kt3	-13.16	2.60E-10	1	-11.9934	1	1.1666
4kt5	-8.18	1.10E-06	0	-9.2796606	0	1.09966
4lad	-10.19	3.80E-08	0	-10.069	0	0.121
4lqw	-5.53	9.40E-05	0	-7.075615	0	1.54561
4lrx	-6.62	1.50E-05	0	-8.2993	0	1.6793
4lrz	-8.65	5.00E-07	0	-8.2877	0	0.3623
4lxr	-11.3	5.90E-09	1	-10.4424	0	0.8576
4m38	-6.75	1.20E-05	0	-7.7614	0	1.0114
4m5f	-14.92	1.35E-11	1	-13.0326	1	1.8874
4mi8	-8.04	1.38E-06	0	-8.4365	0	0.3965
4mne	-10.11	4.30E-08	0	-12.1515	1	2.0415
4mp0	-11.06	8.70E-09	1	-10.8124	0	0.2476
4mqv	-7.6	2.90E-06	0	-7.609	0	0.009
4mrt	-8.29	9.20E-07	0	-7.4862	0	0.8038
4n7v	-10.29	3.20E-08	0	-9.4581083	0	0.83189
4n7z	-9.27	1.77E-07	0	-9.37965	0	0.10965
4ne9	-8.14	1.17E-06	0	-8.417	0	0.277
4ng2	-7.54	3.20E-06	0	-9.1115	0	1.5715
4niq	-7.28	5.00E-06	0	-7.3487	0	0.0687
4nl9	-9.07	2.49E-07	0	-10.305433	0	1.23543
4nm3	-5.8	6.00E-05	0	-7.327935	0	1.52794
4noo	-11.4	4.92E-09	1	-7.3187017	0	4.0813
4nqw	-8.75	4.20E-07	0	-8.7861	0	0.0361
4nso	-12.37	9.80E-10	1	-7.3187017	0	5.0513
4nzl	-10.44	2.50E-08	0	-11.397475	1	0.95748
4o27	-10.44	2.50E-08	0	-10.15085	0	0.28915
4ofy	-8.54	6.02E-07	0	-8.3387	0	0.2013
4ons	-10.71	1.58E-08	0	-8.3885	0	2.3215
4p1n	-8.85	3.60E-07	0	-9.7308667	0	0.88087
4p6i	-8.97	2.90E-07	0	-9.229	0	0.259
4pas	-9.47	1.27E-07	0	-8.002	0	1.468
4pj2	-14.18	4.70E-11	1	-12.1231	1	2.0569
4pj5	-5.08	0.0002	0	-6.0714142	0	0.99141
4pj7	-7.64	2.70E-06	0	-6.0714142	0	1.56859
4pj8	-8.24	1.00E-06	0	-6.0714142	0	2.16859
4pj9	-7.71	2.40E-06	0	-6.0714142	0	1.63859
4pja	-7.38	4.20E-06	0	-6.0714142	0	1.30859
4pjb	-6.92	9.10E-06	0	-6.0714142	0	0.84859
4pjc	-7.38	4.20E-06	0	-6.0714142	0	1.30859
4pjd	-7.77	2.20E-06	0	-6.0714142	0	1.69859

4pjf	-6.11	3.54E-05	0	-6.0714142	0	0.03859
4pvz	-10.38	2.73E-08	0	-8.5829	0	1.7971
4pw9	-6.68	1.35E-05	0	-7.6226	0	0.9426
4pz6	-9.17	2.10E-07	0	-8.8887	0	0.2813
4qlb	-7.96	1.60E-06	0	-8.2858	0	0.3258
4qlp	-13.23	2.30E-10	1	-11.849925	1	1.38008
4ra0	-15.88	2.70E-12	1	-15.400847	1	0.47915
4rjf	-9.06	2.50E-07	0	-8.888	0	0.172
4rs1	-10.46	2.39E-08	0	-10.7646	0	0.3046
4rt6	-10.82	1.32E-08	0	-9.0915	0	1.7285
4tq0	-7.08	6.90E-06	0	-8.1501	0	1.0701
4tq1	-4.74	0.00035	0	-6.4233744	0	1.68337
4u0q	-8.18	1.10E-06	0	-8.459	0	0.279
4u30	-9.42	1.38E-07	0	-9.14138	0	0.27862
4u32	-8.81	3.79E-07	0	-10.51232	0	1.70232
4uem	-11.25	6.40E-09	1	-8.9138667	0	2.33613
4uf1	-7.08	6.98E-06	0	-8.0209	0	0.9409
4ui0	-9.69	8.80E-08	0	-9.05705	0	0.63295
4uwx	-7.08	6.90E-06	0	-8.5139167	0	1.43392
4uyp	-14.69	2.00E-11	1	-14.293717	1	0.39628
4uyq	-14.9	1.40E-11	1	-14.293717	1	0.60628
4v0m	-8.87	3.48E-07	0	-8.7944	0	0.0756
4v2c	-6.51	1.80E-05	0	-7.0055	0	0.4955
4wnd	-10.27	3.29E-08	0	-9.7593	0	0.5107
4x33	-9.06	2.50E-07	0	-10.085	0	1.025
4xhj	-13.33	1.94E-10	1	-12.7064	1	0.6236
4xhu	-10.41	2.60E-08	0	-10.0468	0	0.3632
4xi5	-12.78	4.90E-10	1	-12.7064	1	0.0736
4xkl	-6.05	3.91E-05	0	-7.6416	0	1.5916
4xll	-8.95	3.04E-07	0	-8.3883	0	0.5617
4xlw	-9.03	2.62E-07	0	-8.3883	0	0.6417
4xwj	-11.46	4.45E-09	1	-10.8935	0	0.5665
4xxb	-8	1.48E-06	0	-9.1045	0	1.1045
4xxw	-7.26	5.12E-06	0	-11.181967	1	3.92197
4y5o	-8.04	1.40E-06	0	-9.4141667	0	1.37417
4y61	-8.85	3.56E-07	0	-9.1495	0	0.2995
4yh7	-9.37	1.50E-07	0	-8.7895	0	0.5805
4yn0	-9.71	8.50E-08	0	-8.8353	0	0.8747
4yoc	-8.54	6.00E-07	0	-8.2393	0	0.3007
4ypi	-10.59	1.94E-08	0	-10.158557	0	0.43144
4yvq	-7.81	2.03E-06	0	-9.0018	0	1.1918
4yyp	-9	2.80E-07	0	-9.4452	0	0.4452
4z80	-10.87	1.20E-08	0	-10.0518	0	0.8182
4zgg	-7.69	2.50E-06	0	-8.3782	0	0.6882
4zgy	-8.45	7.00E-07	0	-9.911575	0	1.46157
4zk9	-13.21	2.40E-10	1	-11.537191	1	1.67281

4zqu	-10.7	1.60E-08	0	-10.4944	0	0.2056
4zrk	-8.24	1.00E-06	0	-9.297525	0	1.05753
4zrp	-12	1.80E-09	1	-11.170525	1	0.82948
4zv4	-10.49	2.30E-08	0	-10.0725	0	0.4175
5abv	-12.74	5.20E-10	1	-11.6217	1	1.1183
5ajj	-7.54	3.22E-06	0	-8.8589	0	1.3189
5ajk	-7.66	2.64E-06	0	-8.6084	0	0.9484
5aoq	-11.51	4.10E-09	1	-10.7751	0	0.7349
5ayr	-11.95	1.96E-09	1	-11.0812	1	0.8688
5ays	-12.76	5.08E-10	1	-11.629	1	1.131
5b64	-9.82	7.00E-08	0	-9.5523	0	0.2677
5bn5	-6.81	1.10E-05	0	-8.1332	0	1.3232
5bnq	-13.46	1.56E-10	1	-11.6588	1	1.8012
5bqe	-8.18	1.10E-06	0	-8.6961	0	0.5161
5brm	-9.51	1.19E-07	0	-9.516475	0	0.00647
5c4v	-8.18	1.10E-06	0	-8.5231	0	0.3431
5cff	-8.2	1.07E-06	0	-9.1325	0	0.9325
5ctr	-8.31	8.80E-07	0	-9.1853	0	0.8753
5cw7	-17.23	2.80E-13	1	-15.7108	1	1.5192
5cxb	-11.03	9.19E-09	1	-9.3695	0	1.6605
5cyk	-9.07	2.49E-07	0	-9.3695	0	0.2995
5czf	-13.73	1.00E-10	1	-13.9608	1	0.2308
5d3i	-12.66	6.00E-10	1	-11.1841	1	1.4759
5d50	-7.67	2.60E-06	0	-8.7265	0	1.0565
5d5m	-8.45	7.00E-07	0	-7.8569178	0	0.59308
5d7i	-5.61	8.14E-05	0	-7.8569178	0	2.24692
5d7j	-7.58	3.00E-06	0	-7.8569178	0	0.27692
5d7l	-6.84	1.04E-05	0	-7.8569178	0	1.01692
5dc4	-10.23	3.50E-08	0	-9.8102	0	0.4198
5dob	-8.24	1.00E-06	0	-8.2858	0	0.0458
5eb1	-9.41	1.40E-07	0	-8.7802	0	0.6298
5ejc	-9.2	1.97E-07	0	-9.4046	0	0.2046
5eo9	-8.83	3.70E-07	0	-9.1875	0	0.3575
5eoa	-9.61	1.00E-07	0	-8.5442083	0	1.06579
5eof	-7.44	3.80E-06	0	-8.5442083	0	1.10421
5ep6	-8.43	7.20E-07	0	-8.1049	0	0.3251
5et1	-9.57	1.07E-07	0	-9.0403	0	0.5297
5f1b	-5.22	0.00016	0	-10.115	0	4.895
5f3x	-11.68	3.11E-09	1	-11.1514	1	0.5286
5f4e	-10.05	4.80E-08	0	-9.4337	0	0.6163
5f5o	-9.32	1.62E-07	0	-9.6144	0	0.2944
5f5s	-10.51	2.20E-08	0	-10.1306	0	0.3794
5fo8	-8.86	3.50E-07	0	-8.901745	0	0.04175
5fo9	-7.85	1.90E-06	0	-9.2158	0	1.3658
5foa	-7.16	6.10E-06	0	-8.3515	0	1.1915
5fob	-8.08	1.30E-06	0	-8.972595	0	0.8926

5ft8	-9.52	1.17E-07	0	-10.3	0	0.78
5fvk	-7.89	1.80E-06	0	-7.3487	0	0.5413
5fw5	-9.74	8.00E-08	0	-9.4239	0	0.3161
5glx	-6.75	1.21E-05	0	-9.089	0	2.339
5gjk	-9.5	1.20E-07	0	-9.0836	0	0.4164
5gtb	-5.95	4.60E-05	0	-7.8429	0	1.8929
5h3j	-9.02	2.70E-07	0	-9.2766	0	0.2566
5h7y	-9.48	1.25E-07	0	-10.9574	1	1.4774
5h9b	-8.47	6.74E-07	0	-8.6050183	0	0.13502
5hk5	-9.38	1.46E-07	0	-9.404	0	0.024
5hps	-8.91	3.23E-07	0	-8.4099	0	0.5001
5hu3	-8.24	1.00E-06	0	-8.6050183	0	0.36502
5hyc	-6.61	1.52E-05	0	-10.5895	0	3.9795
5ibw	-13.18	2.50E-10	1	-11.6213	1	1.5587
5ifs	-13.31	2.00E-10	1	-10.56	0	2.75
5iia	-12	1.81E-09	1	-10.7998	0	1.2002
5imt	-8.83	3.67E-07	0	-9.3023	0	0.4723
5ioh	-8.39	7.78E-07	0	-10.3044	0	1.9144
5ixd	-9.82	7.05E-08	0	-9.1763	0	0.6437
5j4a	-9.8	7.20E-08	0	-11.1188	1	1.3188
5j7c	-13.29	2.09E-10	1	-11.7709	1	1.5191
5jem	-7.17	6.02E-06	0	-7.7014	0	0.5314
5jke	-9.67	9.10E-08	0	-9.3933	0	0.2767
5jlv	-10.74	1.50E-08	0	-10.2093	0	0.5307
5jtl	-8.65	5.00E-07	0	-7.0222513	0	1.62775
5jtm	-6.62	1.50E-05	0	-7.0222513	0	0.40225
5jtn	-7	8.00E-06	0	-7.0222513	0	0.02225
5jto	-6.81	1.10E-05	0	-7.0222513	0	0.21225
5jtp	-6.04	4.00E-05	0	-7.0222513	0	0.98225
5jtz	-7.41	4.00E-06	0	-7.66992	0	0.25992
5jtr	-7.69	2.50E-06	0	-7.66992	0	0.02008
5jw7	-6.92	9.09E-06	0	-7.5566	0	0.6366
5jw9	-9.7	8.60E-08	0	-7.817	0	1.883
5k59	-15.93	2.50E-12	1	-10.28625	0	5.64375
5kwy	-8.74	4.29E-07	0	-9.4662	0	0.7262
5kxh	-8.66	4.90E-07	0	-9.1112	0	0.4512
5lgk	-8.13	1.20E-06	0	-8.6249	0	0.4949
5li1	-8.69	4.70E-07	0	-9.6061417	0	0.91614
5lp5	-8.78	4.00E-07	0	-9.3329	0	0.5529
5lpu	-7.01	7.80E-06	0	-8.3808	0	1.3708
5lxm	-9.26	1.80E-07	0	-9.1262	0	0.1338
5lxq	-8.5	6.40E-07	0	-9.9634	0	1.4634
5lz6	-7	8.00E-06	0	-7.5664	0	0.5664
5m72	-10.27	3.30E-08	0	-9.6806	0	0.5894
5me5	-7.78	2.15E-06	0	-8.40295	0	0.62295
5mj3	-13.67	1.10E-10	1	-12.936	1	0.734

5mjj	-6.79	1.13E-05	0	-8.2406	0	1.4506
5mk0	-7.56	3.10E-06	0	-8.0102	0	0.4502
5mr4	-9.14	2.20E-07	0	-9.5785	0	0.4385
5mr5	-9.74	8.00E-08	0	-9.745	0	0.005
5mv8	-8.04	1.40E-06	0	-8.5437	0	0.5037
5mv9	-8.24	1.00E-06	0	-8.3705	0	0.1305
5n47	-11.19	7.00E-09	1	-11.46472	1	0.27472
5n48	-11.39	5.00E-09	1	-11.46472	1	0.07472
5nt1	-6.58	1.61E-05	0	-9.7873633	0	3.20736
5nt7	-6.83	1.06E-05	0	-7.14835	0	0.31835
5nus	-10.92	1.10E-08	0	-9.30765	0	1.61235
5nvk	-12.9	4.00E-10	1	-10.252543	0	2.64746
5nvl	-13.07	3.00E-10	1	-11.328892	1	1.74111
5nvm	-10.78	1.40E-08	0	-11.328892	1	0.54889
5nvn	-9.97	5.50E-08	0	-9.3536133	0	0.61639
5nwm	-10.16	4.00E-08	0	-9.6855	0	0.4745
5oaq	-9.93	5.80E-08	0	-10.1691	0	0.2391
5odw	-13.21	2.40E-10	1	-8.7348	0	4.4752
5oen	-10.98	1.00E-08	0	-9.6862	0	1.2938
5omb	-8.74	4.30E-07	0	-8.8803	0	0.1403
5osh	-9.36	1.51E-07	0	-8.72494	0	0.63506
5oyl	-7.04	7.50E-06	0	-7.5617	0	0.5217
5tdy	-10.16	4.00E-08	0	-10.2818	0	0.1218
5tgh	-8.27	9.50E-07	0	-8.3739	0	0.1039
5twa	-9.86	6.60E-08	0	-9.5426	0	0.3174
5tzn	-7.19	5.80E-06	0	-8.0919	0	0.9019
5tzp	-10.33	3.00E-08	0	-11.1919	1	0.8619
5tzq	-10.7	1.60E-08	0	-9.9702	0	0.7298
5u8q	-7.71	2.40E-06	0	-9.5737	0	1.8637
5uk5	-8.36	8.10E-07	0	-8.3047	0	0.0553
5un7	-9.5	1.20E-07	0	-9.2780167	0	0.22198
5uul	-11.42	4.80E-09	1	-10.8193	0	0.6007
5uv8	-9.41	1.41E-07	0	-10.0072	0	0.5972
5uwc	-10.64	1.78E-08	0	-10.6295	0	0.0105
5uzu	-10.98	1.00E-08	0	-10.76266	0	0.21734
5v52	-7.46	3.70E-06	0	-8.6425	0	1.1825
5vmo	-8.31	8.87E-07	0	-9.9225721	0	1.61257
5vt9	-10.98	1.00E-08	0	-10.4021	0	0.5779
5vwx	-10.74	1.49E-08	0	-8.3267612	0	2.41324
5vwy	-8.08	1.30E-06	0	-8.3267612	0	0.24676
5vx0	-6.42	2.10E-05	0	-8.3267612	0	1.90676
5vxz	-16.67	7.20E-13	1	-15.400847	1	1.26915
5vyf	-13.35	1.87E-10	1	-9.9347	0	3.4153
5vz4	-11.11	8.00E-09	1	-10.6299	0	0.4801
5w3x	-7.51	3.37E-06	0	-7.9736	0	0.4636
5w8t	-6.27	2.71E-05	0	-7.2967	0	1.0267

5w9a	-5.47	0.0001	0	-6.9531	0	1.4831
5wgg	-8.45	7.00E-07	0	-9.2088	0	0.7588
5whk	-12	1.81E-09	1	-12.1348	1	0.1348
5wos	-8.86	3.53E-07	0	-8.800061	0	0.05994
5wql	-10.98	1.00E-08	0	-7.7726	0	3.2074
5wrv	-8.42	7.30E-07	0	-8.4882	0	0.0682
5wuj	-8.75	4.22E-07	0	-8.5925	0	0.1575
5wy2	-8.6	5.40E-07	0	-8.4875	0	0.1125
5x0w	-7.46	3.70E-06	0	-9.8875	0	2.4275
5x4l	-7.73	2.34E-06	0	-8.26395	0	0.53395
5xbf	-7.92	1.70E-06	0	-8.3171	0	0.3971
5xda	-7.96	1.60E-06	0	-9.1538	0	1.1938
5xjg	-7.34	4.52E-06	0	-8.2203	0	0.8803
5xln	-7.69	2.48E-06	0	-8.1074	0	0.4174
5xod	-10.37	2.81E-08	0	-9.4926	0	0.8774
5xsq	-11.17	7.35E-09	1	-9.6144	0	1.5556
5xv8	-9.81	7.14E-08	0	-9.2039	0	0.6061
5xwt	-6.65	1.44E-05	0	-7.4852	0	0.8352
5y1z	-7.37	4.30E-06	0	-7.8962	0	0.5262
5y4r	-10.36	2.86E-08	0	-9.9	0	0.46
5yi8	-7.89	1.80E-06	0	-7.9968	0	0.1068
5ywr	-10.17	3.90E-08	0	-9.8571	0	0.3129
5z2w	-8.48	6.70E-07	0	-9.5838	0	1.1038
5z78	-8.3	9.00E-07	0	-10.1311	0	1.8311
5z7g	-7.81	2.05E-06	0	-8.0751	0	0.2651
5z7l	-8.13	1.20E-06	0	-8.4886	0	0.3586
5zo2	-8.18	1.10E-06	0	-8.7509	0	0.5709
6a7v	-12.66	6.00E-10	1	-11.7809	1	0.8791
6aaf	-9.33	1.61E-07	0	-10.517	0	1.187
6akm	-7.08	6.90E-06	0	-8.0313	0	0.9513
6atk	-8.74	4.30E-07	0	-9.1751	0	0.4351
6azp	-10.23	3.51E-08	0	-10.76266	0	0.53266
6b05	-7.85	1.90E-06	0	-8.3864	0	0.5364
6bx8	-9.2	2.00E-07	0	-8.34153	0	0.85847
6bxa	-10.16	4.00E-08	0	-10.5001	0	0.3401
6bxc	-10.83	1.30E-08	0	-10.6296	0	0.2004
6czo	-9.68	8.90E-08	0	-9.2883	0	0.3917
6dg5	-10.7	1.61E-08	0	-10.3872	0	0.3128
6e2p	-6.49	1.87E-05	0	-7.3673	0	0.8773
6egl	-5.65	7.66E-05	0	-7.2052	0	1.5552
6f3z	-8.78	4.05E-07	0	-10.6676	0	1.8876
6fbx	-8.87	3.43E-07	0	-9.26455	0	0.39455
6fc2	-7.51	3.40E-06	0	-10.696167	0	3.18617
6fc3	-10.57	2.00E-08	0	-9.3921	0	1.1779
6ff3	-10.8	1.36E-08	0	-10.505208	0	0.29479
6fg8	-8.25	9.80E-07	0	-8.5959	0	0.3459

6fgb	-14.04	5.90E-11	1	-13.3833	1	0.6567
6fhp	-10.05	4.80E-08	0	-9.5895	0	0.4605
6fpg	-9.6	1.02E-07	0	-8.7595	0	0.8405
6fq0	-9.33	1.60E-07	0	-9.33794	0	0.00794
6fto	-11.78	2.60E-09	1	-10.71285	0	1.06715
6fu9	-11.43	4.70E-09	1	-10.5144	0	0.9156
6fuz	-7.54	3.19E-06	0	-7.9814	0	0.4414
6fv0	-7.91	1.72E-06	0	-9.5855	0	1.6755
6g04	-8.45	7.00E-07	0	-8.8647	0	0.4147
6gbu	-9.07	2.48E-07	0	-8.5203	0	0.5497
6gho	-8.37	8.00E-07	0	-9.1728	0	0.8028
6gum	-8.13	1.20E-06	0	-8.5513	0	0.4213
6ht9	-13.73	1.00E-10	1	-9.1990333	0	4.53097
6hul	-8.95	3.00E-07	0	-9.0792	0	0.1292
6i2m	-11.36	5.31E-09	1	-10.3159	0	1.0441
6i3f	-10.56	2.03E-08	0	-10.088053	0	0.47195
6ib8	-9.65	9.40E-08	0	-8.7892467	0	0.86075
6idx	-7.51	3.36E-06	0	-8.3046	0	0.7946
6ihb	-9.94	5.70E-08	0	-9.993325	0	0.05333
6ilm	-9.08	2.42E-07	0	-10.11605	0	1.03605
6im9	-10.44	2.50E-08	0	-9.471	0	0.969
6imf	-10.46	2.40E-08	0	-9.6545	0	0.8055
6in9	-8.13	1.20E-06	0	-8.3821	0	0.2521
6ird	-9.17	2.10E-07	0	-8.3849	0	0.7851
6ire	-10.95	1.06E-08	0	-10.75351	0	0.19649
6ivu	-15.04	1.10E-11	1	-12.765882	1	2.27412
6iwd	-10.62	1.82E-08	0	-9.4104167	0	1.20958
6j56	-8.48	6.70E-07	0	-9.0170792	0	0.53708
6j9h	-10.13	4.20E-08	0	-10.4536	0	0.3236
6j9l	-7.79	2.12E-06	0	-9.1879	0	1.3979
6jhw	-10.63	1.80E-08	0	-10.2536	0	0.3764
6jjw	-11.1	8.20E-09	1	-9.433	0	1.667
6jwj	-9.7	8.57E-08	0	-8.90909	0	0.79091
6kbm	-8.54	6.00E-07	0	-8.4915	0	0.0485
6kbn	-8.01	1.46E-06	0	-8.2689	0	0.2589
6kbr	-15.17	8.91E-12	1	-8.6955667	0	6.47443
6m7l	-6.84	1.04E-05	0	-7.509	0	0.669
6m9k	-6.75	1.20E-05	0	-8.20935	0	1.45935
6mkz	-13.31	2.00E-10	1	-12.0879	1	1.2221
6mun	-8.24	1.00E-06	0	-9.1726417	0	0.93264
6n85	-9.09	2.40E-07	0	-9.1027583	0	0.01276
6nfj	-9.16	2.11E-07	0	-9.2464	0	0.0864
6nha	-12.25	1.19E-09	1	-12.104	1	0.146
6o1f	-13.18	2.50E-10	1	-11.785	1	1.395
6o8b	-6.81	1.10E-05	0	-9.3606167	0	2.55062
6obn	-10.32	3.04E-08	0	-10.191267	0	0.12873

6og4	-12.2	1.29E-09	1	-11.164707	1	1.03529
6on9	-6.86	1.00E-05	0	-10.1812	0	3.3212
6ojj	-11.04	9.00E-09	1	-11.164707	1	0.12471
6oqk	-10.13	4.20E-08	0	-11.164707	1	1.03471
6oqq	-10.37	2.80E-08	0	-9.60061	0	0.76939
6ov2	-11.59	3.58E-09	1	-10.1784	0	1.4116
6s29	-11.13	7.75E-09	1	-10.2131	0	0.9169
6sak	-10.31	3.10E-08	0	-7.6515	0	2.6585
6thg	-11.53	4.00E-09	1	-10.000167	0	1.52983
6uys	-7.96	1.60E-06	0	-9.0299857	0	1.06999
6uyu	-7.82	2.00E-06	0	-9.0299857	0	1.20999