

Supplementary table S4. Information of the differentially expressed genes in brain of the wild type (WT) and the mutant (MU)

GeneID	FPKM_WT	FPKM_MU	$\log_2 \left(\frac{\text{FPKM_MU}}{\text{FPKM_WT}} \right)$	Corrected <i>P</i> -value
Up regulated in MU				
BGIBMGA004313	1.018	65.733	6.013	0.0010
BGIBMGA010584	1.170	34.301	4.873	0.0010
BGIBMGA007733	1.575	33.477	4.409	0.0010
BGIBMGA001640	0.382	6.811	4.155	0.0361
BGIBMGA011074	1.088	16.489	3.922	0.0068
BGIBMGA007915	0.541	7.907	3.870	0.0107
BGIBMGA012944	4.338	59.298	3.773	0.0010
BGIBMGA009030	1.648	21.924	3.734	0.0010
BGIBMGA000353	3.896	47.128	3.597	0.0010
BGIBMGA003568	1.186	14.342	3.596	0.0010
BGIBMGA004005	11.876	131.105	3.465	0.0010
BGIBMGA014304	0.400	4.247	3.408	0.0010
BGIBMGA004800	0.640	6.770	3.403	0.0048
BGIBMGA001480	4.680	46.958	3.327	0.0010
BGIBMGA014431	5.780	57.437	3.313	0.0010
BGIBMGA004006	26.441	251.400	3.249	0.0010
BGIBMGA011455	0.836	7.314	3.129	0.0055
BGIBMGA004445	0.677	5.598	3.048	0.0147
BGIBMGA014428	25.594	210.517	3.040	0.0010
BGIBMGA013275	0.329	2.630	2.997	0.0485
BGIBMGA004002	3.224	25.538	2.986	0.0117
BGIBMGA012777	3.793	29.592	2.964	0.0010
BGIBMGA014429	99.276	752.575	2.922	0.0010
BGIBMGA004290	13.033	97.035	2.896	0.0010
BGIBMGA000185	0.374	2.729	2.869	0.0019
BGIBMGA009528	0.907	6.606	2.865	0.0177
BGIBMGA005330	0.184	1.298	2.821	0.0470
BGIBMGA010024	5.962	40.014	2.747	0.0010
BGIBMGA002669	4.742	31.504	2.732	0.0010
BGIBMGA007987	3.806	23.685	2.638	0.0010
BGIBMGA012758	0.452	2.756	2.607	0.0142
BGIBMGA002670	38.982	237.383	2.606	0.0010
BGIBMGA001803	0.457	2.782	2.606	0.0096
BGIBMGA003567	21.814	132.559	2.603	0.0010
BGIBMGA012866	5.696	34.269	2.589	0.0010
BGIBMGA006513	1.166	6.821	2.549	0.0155
BGIBMGA004115	1.044	6.021	2.528	0.0418
BGIBMGA002961	1.178	6.413	2.444	0.0074
BGIBMGA004585	0.233	1.258	2.434	0.0010
BGIBMGA010985	1.214	6.507	2.422	0.0339
BGIBMGA010979	118.724	627.284	2.402	0.0010
BGIBMGA014524	2.196	11.407	2.377	0.0010
BGIBMGA011550	1.088	5.617	2.368	0.0214
BGIBMGA001508	0.679	3.495	2.364	0.0470
BGIBMGA010977	2.696	13.796	2.356	0.0074
BGIBMGA000870	1.604	8.084	2.334	0.0470
BGIBMGA011252	0.605	2.937	2.280	0.0035
BGIBMGA001347	1.729	8.223	2.250	0.0181
BGIBMGA010639	1.553	7.020	2.177	0.0010
BGIBMGA010276	1.395	6.268	2.168	0.0371
BGIBMGA011729	19.365	86.900	2.166	0.0010
BGIBMGA001848	1.185	5.227	2.141	0.0107
BGIBMGA006715	3.873	17.012	2.135	0.0010
BGIBMGA013098	4.772	20.661	2.114	0.0010
BGIBMGA007855	4.555	19.644	2.109	0.0019
ENSRNA022711346	1048.440	4473.400	2.093	0.0010
BGIBMGA005013	118.178	499.000	2.078	0.0010
BGIBMGA003326	12.241	51.467	2.072	0.0010
BGIBMGA006066	0.335	1.381	2.043	0.0429
BGIBMGA004287	8.624	35.382	2.037	0.0227
BGIBMGA004280	36.271	145.198	2.001	0.0010
BGIBMGA013756	8.667	34.066	1.975	0.0010
BGIBMGA009392	0.541	2.124	1.974	0.0412
BGIBMGA014430	2.099	7.953	1.922	0.0142
BGIBMGA013174	4.530	17.019	1.910	0.0062
BGIBMGA001506	1.889	7.078	1.905	0.0127
BGIBMGA004806	0.772	2.747	1.831	0.0010
BGIBMGA008060	0.569	2.023	1.829	0.0152
BGIBMGA004606	20.194	70.718	1.808	0.0010
BGIBMGA000249	6.263	21.146	1.755	0.0080
BGIBMGA000693	1.667	5.615	1.752	0.0010
BGIBMGA010400	68.876	231.391	1.748	0.0010
BGIBMGA002908	16.810	56.150	1.740	0.0010
ENSRNA022711380	867.815	2877.400	1.729	0.0010
BGIBMGA004011	64.123	210.309	1.714	0.0010
BGIBMGA003959	22.538	72.662	1.689	0.0172
BGIBMGA008913	6.643	21.211	1.675	0.0019
BGIBMGA000692	0.970	3.077	1.665	0.0010
BGIBMGA011099	1.355	4.290	1.663	0.0112
BGIBMGA012284	1.132	3.544	1.647	0.0402
BGIBMGA008258	80.149	248.820	1.634	0.0010
BGIBMGA003739	38.440	119.289	1.634	0.0010

BGIBMGA001491	11.314	35.006	1.630	0.0019
BGIBMGA003960	15.118	46.249	1.613	0.0010
BGIBMGA004288	34.176	102.529	1.585	0.0035
BGIBMGA008736	3.151	9.396	1.576	0.0035
BGIBMGA004291	93.457	278.130	1.573	0.0010
BGIBMGA004285	16.538	49.164	1.572	0.0152
BGIBMGA000949	2.307	6.794	1.558	0.0243
BGIBMGA004294	10.038	29.422	1.552	0.0436
BGIBMGA002471	1.054	3.012	1.515	0.0231
ENSRNA022711345	396.559	1115.860	1.493	0.0010
BGIBMGA011731	87.690	245.142	1.483	0.0010
BGIBMGA008814	4.670	13.044	1.482	0.0343
BGIBMGA013778	148.301	406.272	1.454	0.0019
BGIBMGA006117	1.132	3.025	1.417	0.0482
BGIBMGA011730	70.135	184.688	1.397	0.0027
BGIBMGA003661	17.452	45.559	1.384	0.0042
BGIBMGA003167	4.880	12.649	1.374	0.0068
BGIBMGA002111	7.095	18.313	1.368	0.0085
BGIBMGA014278	17.317	44.493	1.361	0.0035
BGIBMGA008050	7.101	18.185	1.357	0.0481
BGIBMGA012788	1.695	4.317	1.348	0.0235
BGIBMGA012706	5.147	13.091	1.347	0.0010
BGIBMGA003349	2.752	6.956	1.338	0.0085
BGIBMGA012783	2.112	5.320	1.333	0.0068
BGIBMGA003322	26.070	65.465	1.328	0.0027
BGIBMGA011911	67.887	168.481	1.311	0.0010
BGIBMGA013456	5.159	12.723	1.302	0.0204
BGIBMGA008257	138.162	340.406	1.301	0.0010
BGIBMGA008174	1384.270	3406.430	1.299	0.0010
BGIBMGA000691	5.440	13.354	1.296	0.0010
BGIBMGA008912	6.011	14.549	1.275	0.0074
BGIBMGA011002	3.162	7.636	1.272	0.0339
BGIBMGA002002	43.823	105.713	1.270	0.0010
BGIBMGA011837	19.564	47.081	1.267	0.0010
BGIBMGA007183	24.272	58.331	1.265	0.0010
BGIBMGA012606	5.894	14.142	1.263	0.0200
BGIBMGA003216	84.034	200.903	1.257	0.0010
BGIBMGA013807	4.954	11.838	1.257	0.0027
BGIBMGA007324	15.305	36.367	1.249	0.0010
BGIBMGA013991	104.680	248.057	1.245	0.0010
BGIBMGA004830	5.558	13.090	1.236	0.0010
BGIBMGA000737	40.953	95.590	1.223	0.0010
BGIBMGA011504	121.424	279.497	1.203	0.0010
BGIBMGA008559	9.607	22.060	1.199	0.0422
BGIBMGA008838	17.181	38.858	1.177	0.0010
BGIBMGA012593	55.568	125.445	1.175	0.0062
BGIBMGA006325	39.502	88.222	1.159	0.0010
BGIBMGA004292	32.674	72.699	1.154	0.0456
BGIBMGA014453	176.706	392.432	1.151	0.0010
BGIBMGA005858	111.489	243.992	1.130	0.0010
BGIBMGA012347	289.551	633.599	1.130	0.0010
BGIBMGA006021	263.567	572.037	1.118	0.0010
BGIBMGA012938	370.639	795.814	1.102	0.0010
BGIBMGA008658	27.218	58.395	1.101	0.0010
BGIBMGA005150	1.714	3.649	1.090	0.0181
BGIBMGA010420	5.252	11.114	1.081	0.0432
BGIBMGA011111	48.525	101.910	1.071	0.0010
BGIBMGA012754	325.644	682.863	1.068	0.0010
BGIBMGA014298	16.027	33.411	1.060	0.0185
BGIBMGA004346	205.812	427.648	1.055	0.0010
BGIBMGA008260	87.737	181.913	1.052	0.0010
BGIBMGA000736	101.783	210.331	1.047	0.0267
BGIBMGA004630	55.889	115.318	1.045	0.0062
BGIBMGA012660	13.645	28.131	1.044	0.0091
BGIBMGA004938	8.593	17.621	1.036	0.0172
BGIBMGA009132	3257.400	6589.620	1.016	0.0068
BGIBMGA001632	14.901	29.967	1.008	0.0112
BGIBMGA002207	20.120	40.334	1.003	0.0168

Down regulated in MU

BGIBMGA013738	6.342	0.278	-4.514	0.0062
BGIBMGA008072	141.349	6.851	-4.367	0.0010
BGIBMGA000856	8.684	0.426	-4.349	0.0107
BGIBMGA007920	60.474	3.015	-4.326	0.0010
BGIBMGA000328	1152.390	57.488	-4.325	0.0010
BGIBMGA009488	9.569	0.487	-4.298	0.0010
BGIBMGA006874	7.704	0.395	-4.286	0.0010
BGIBMGA008990	9.287	0.480	-4.274	0.0168
BGIBMGA012763	11.610	0.637	-4.188	0.0010
BGIBMGA002849	2.961	0.164	-4.176	0.0019
BGIBMGA000223	10.011	0.557	-4.168	0.0010
BGIBMGA004793	526.021	30.203	-4.122	0.0010
BGIBMGA009925	4.443	0.259	-4.098	0.0080
BGIBMGA004678	37.964	2.292	-4.050	0.0010
BGIBMGA000291	6.327	0.401	-3.981	0.0308
BGIBMGA008165	11.591	0.747	-3.956	0.0010
BGIBMGA006371	4.020	0.263	-3.934	0.0027

BGIBMGA011145	9.029	0.596	-3.921	0.0010
BGIBMGA007757	21.002	1.388	-3.920	0.0010
BGIBMGA007829	6.773	0.455	-3.895	0.0147
BGIBMGA011362	32.846	2.288	-3.843	0.0010
BGIBMGA000319	3.816	0.282	-3.758	0.0019
BGIBMGA004000	28.815	2.193	-3.716	0.0010
BGIBMGA009028	174.767	13.352	-3.710	0.0010
BGIBMGA000336	69.141	5.321	-3.700	0.0010
BGIBMGA009573	5.152	0.404	-3.672	0.0085
BGIBMGA008871	3.166	0.249	-3.671	0.0354
BGIBMGA001906	37.851	3.007	-3.654	0.0010
BGIBMGA002566	92.052	7.361	-3.644	0.0010
BGIBMGA013376	1.690	0.137	-3.630	0.0010
BGIBMGA012091	5.341	0.434	-3.622	0.0415
BGIBMGA013015	6.257	0.510	-3.617	0.0117
BGIBMGA007546	5.214	0.435	-3.584	0.0019
BGIBMGA010913	252.511	21.149	-3.578	0.0010
BGIBMGA007899	41.067	3.524	-3.543	0.0010
BGIBMGA011456	2.388	0.206	-3.534	0.0283
BGIBMGA011765	422.699	37.035	-3.513	0.0010
BGIBMGA000774	20.952	1.860	-3.494	0.0010
BGIBMGA003057	2.608	0.235	-3.470	0.0357
BGIBMGA013237	11.026	1.004	-3.457	0.0010
BGIBMGA011716	360.767	33.222	-3.441	0.0335
BGIBMGA004355	1.409	0.130	-3.436	0.0062
BGIBMGA007677	145.086	13.572	-3.418	0.0010
BGIBMGA013822	3.827	0.360	-3.411	0.0035
BGIBMGA009027	125.834	12.050	-3.384	0.0010
BGIBMGA004464	156.502	15.237	-3.360	0.0010
BGIBMGA006624	1.764	0.177	-3.319	0.0415
BGIBMGA010043	6.801	0.684	-3.314	0.0085
BGIBMGA004089	2.884	0.294	-3.294	0.0048
BGIBMGA014198	4.432	0.457	-3.277	0.0010
BGIBMGA012294	79.531	8.277	-3.264	0.0027
BGIBMGA008855	15.290	1.602	-3.255	0.0027
BGIBMGA013705	86.788	9.099	-3.254	0.0010
BGIBMGA012885	13.333	1.400	-3.251	0.0019
BGIBMGA008934	11.649	1.227	-3.247	0.0010
BGIBMGA011266	82.441	8.818	-3.225	0.0010
BGIBMGA008023	6.368	0.682	-3.224	0.0010
BGIBMGA010436	8.391	0.901	-3.219	0.0010
BGIBMGA002725	7.482	0.806	-3.214	0.0127
BGIBMGA003818	36.710	3.969	-3.209	0.0048
BGIBMGA002626	4916.160	533.844	-3.203	0.0010
BGIBMGA011361	12.953	1.418	-3.191	0.0010
BGIBMGA010726	3.938	0.434	-3.180	0.0010
BGIBMGA009441	1.162	0.129	-3.169	0.0287
BGIBMGA011701	55.348	6.275	-3.141	0.0010
BGIBMGA013236	15.242	1.729	-3.140	0.0010
BGIBMGA005942	7.034	0.810	-3.118	0.0010
BGIBMGA009695	3.893	0.449	-3.117	0.0027
BGIBMGA000347	4.205	0.488	-3.108	0.0035
BGIBMGA000772	16.977	2.009	-3.079	0.0010
BGIBMGA004506	2.545	0.303	-3.072	0.0231
BGIBMGA001983	39.249	4.690	-3.065	0.0010
BGIBMGA002524	18.319	2.199	-3.059	0.0010
BGIBMGA000553	170.775	20.670	-3.046	0.0010
BGIBMGA007254	34.698	4.213	-3.042	0.0010
BGIBMGA007256	28.387	3.449	-3.041	0.0010
BGIBMGA013958	50.540	6.145	-3.040	0.0010
BGIBMGA011141	12.067	1.473	-3.034	0.0010
BGIBMGA001164	141.055	17.395	-3.019	0.0010
BGIBMGA012764	10.561	1.304	-3.017	0.0010
BGIBMGA012839	199.971	24.759	-3.014	0.0010
BGIBMGA002627	14.393	1.790	-3.007	0.0260
BGIBMGA007281	2.709	0.338	-3.003	0.0218
BGIBMGA000238	3.322	0.416	-2.999	0.0096
BGIBMGA004465	15.282	1.930	-2.985	0.0010
BGIBMGA011066	11934.800	1513.170	-2.980	0.0010
BGIBMGA014265	2.170	0.277	-2.970	0.0181
BGIBMGA006691	10.552	1.352	-2.964	0.0010
BGIBMGA007917	3.265	0.420	-2.959	0.0287
BGIBMGA001937	60.348	7.815	-2.949	0.0010
BGIBMGA011713	5102.390	667.944	-2.933	0.0010
BGIBMGA012133	57.071	7.525	-2.923	0.0010
BGIBMGA010391	9.050	1.197	-2.918	0.0085
BGIBMGA000324	672.931	89.276	-2.914	0.0010
BGIBMGA014406	45.895	6.103	-2.911	0.0068
BGIBMGA013926	8.455	1.142	-2.888	0.0010
BGIBMGA002567	751.318	101.496	-2.888	0.0010
BGIBMGA011363	54.774	7.430	-2.882	0.0010
BGIBMGA003736	22.938	3.122	-2.877	0.0019
BGIBMGA003481	42.450	5.807	-2.870	0.0010
BGIBMGA014497	150.388	20.693	-2.861	0.0019
BGIBMGA014292	69.878	9.820	-2.831	0.0010
BGIBMGA011077	138.528	19.793	-2.807	0.0010

BGIBMGA014032	3.850	0.562	-2.775	0.0453
BGIBMGA003646	1.751	0.256	-2.774	0.0062
BGIBMGA012425	38.811	5.776	-2.748	0.0010
BGIBMGA002576	6.975	1.042	-2.743	0.0010
BGIBMGA001511	32.447	4.875	-2.735	0.0010
BGIBMGA002647	97.022	14.594	-2.733	0.0010
BGIBMGA006693	4.931	0.744	-2.728	0.0010
BGIBMGA007043	525.207	80.655	-2.703	0.0010
BGIBMGA011607	5.840	0.899	-2.700	0.0010
BGIBMGA014587	13.202	2.071	-2.673	0.0010
BGIBMGA006204	9.835	1.548	-2.668	0.0010
BGIBMGA006692	27.610	4.353	-2.665	0.0010
BGIBMGA009501	1.578	0.251	-2.651	0.0010
BGIBMGA013646	6.787	1.083	-2.648	0.0384
BGIBMGA003333	16.482	2.635	-2.645	0.0010
BGIBMGA006893	85.295	13.669	-2.642	0.0010
BGIBMGA014470	2.059	0.330	-2.639	0.0010
BGIBMGA007154	20.434	3.288	-2.636	0.0010
BGIBMGA004951	113.802	18.349	-2.633	0.0010
BGIBMGA014590	13.416	2.174	-2.626	0.0035
BGIBMGA009363	364.323	59.397	-2.617	0.0010
BGIBMGA011714	3245.200	530.780	-2.612	0.0010
BGIBMGA009977	10.356	1.697	-2.610	0.0235
BGIBMGA003524	11.311	1.863	-2.602	0.0155
BGIBMGA013578	9.464	1.559	-2.602	0.0256
BGIBMGA009232	175.049	28.847	-2.601	0.0010
BGIBMGA012400	3.147	0.520	-2.598	0.0185
BGIBMGA000988	12.657	2.100	-2.591	0.0010
BGIBMGA010294	42.075	6.999	-2.588	0.0010
BGIBMGA003368	3.039	0.509	-2.576	0.0432
BGIBMGA001338	22.753	3.816	-2.576	0.0010
BGIBMGA011718	942.014	159.761	-2.560	0.0010
BGIBMGA004066	1170.130	198.812	-2.557	0.0010
BGIBMGA012491	3.051	0.519	-2.555	0.0074
BGIBMGA009542	103.592	17.647	-2.553	0.0010
BGIBMGA009502	2.308	0.395	-2.548	0.0343
BGIBMGA009096	7.593	1.306	-2.540	0.0408
BGIBMGA005664	15.631	2.699	-2.534	0.0010
BGIBMGA005977	19.736	3.413	-2.532	0.0010
BGIBMGA004368	4.215	0.733	-2.524	0.0172
BGIBMGA005015	7.727	1.344	-2.523	0.0010
BGIBMGA009503	4.354	0.762	-2.514	0.0010
BGIBMGA005173	7.569	1.327	-2.512	0.0055
BGIBMGA012424	42.094	7.421	-2.504	0.0027
BGIBMGA012385	29.047	5.125	-2.503	0.0010
BGIBMGA011153	2.612	0.463	-2.496	0.0085
BGIBMGA007628	161.159	28.718	-2.488	0.0010
BGIBMGA014039	65.186	11.625	-2.487	0.0010
BGIBMGA014586	20.637	3.684	-2.486	0.0010
BGIBMGA002602	245.123	43.813	-2.484	0.0010
BGIBMGA005277	849.747	152.225	-2.481	0.0010
BGIBMGA003679	2.037	0.365	-2.479	0.0010
BGIBMGA000158	4.222	0.760	-2.475	0.0010
BGIBMGA011577	39.794	7.164	-2.474	0.0010
BGIBMGA006882	31.078	5.636	-2.463	0.0010
BGIBMGA009019	3.024	0.549	-2.461	0.0080
BGIBMGA007678	53.687	9.779	-2.457	0.0010
BGIBMGA002561	84.765	15.561	-2.446	0.0010
BGIBMGA002542	101.166	18.642	-2.440	0.0010
BGIBMGA011213	2.759	0.510	-2.436	0.0152
BGIBMGA011727	181.843	33.702	-2.432	0.0010
BGIBMGA011769	4410.150	817.645	-2.431	0.0010
BGIBMGA008672	5072.500	954.891	-2.409	0.0010
BGIBMGA000065	2.825	0.532	-2.409	0.0160
BGIBMGA010513	11.060	2.090	-2.404	0.0010
BGIBMGA008179	4.858	0.918	-2.404	0.0218
BGIBMGA007046	25.284	4.802	-2.397	0.0010
BGIBMGA008272	2.634	0.502	-2.392	0.0127
BGIBMGA008499	10.728	2.048	-2.389	0.0055
BGIBMGA001296	4.447	0.854	-2.381	0.0055
BGIBMGA012502	7.210	1.393	-2.372	0.0035
BGIBMGA006823	908.183	175.818	-2.369	0.0010
BGIBMGA001277	2.608	0.506	-2.364	0.0133
BGIBMGA011728	17.654	3.481	-2.342	0.0010
BGIBMGA011852	36.124	7.172	-2.333	0.0010
BGIBMGA012645	20.086	3.998	-2.329	0.0055
BGIBMGA009219	57.390	11.439	-2.327	0.0010
BGIBMGA006743	13.973	2.786	-2.327	0.0102
BGIBMGA001444	9.925	1.983	-2.324	0.0010
BGIBMGA011702	132.005	26.398	-2.322	0.0010
BGIBMGA010111	13.842	2.778	-2.317	0.0010
BGIBMGA008509	14.602	2.934	-2.315	0.0010
BGIBMGA001301	5.342	1.074	-2.314	0.0068
BGIBMGA012386	27.415	5.528	-2.310	0.0010
BGIBMGA004571	9.276	1.874	-2.307	0.0010
BGIBMGA001034	73.101	14.803	-2.304	0.0010

BGIBMGA005958	5.176	1.052	-2.299	0.0147
BGIBMGA000285	3.088	0.628	-2.298	0.0155
BGIBMGA004866	10.371	2.122	-2.289	0.0107
BGIBMGA007042	3.069	0.630	-2.284	0.0010
BGIBMGA013483	10.952	2.274	-2.268	0.0122
BGIBMGA000582	17.578	3.666	-2.261	0.0010
BGIBMGA008598	5.838	1.219	-2.260	0.0042
BGIBMGA010077	1.359	0.284	-2.259	0.0168
BGIBMGA003345	7.945	1.662	-2.257	0.0068
BGIBMGA001201	127.599	26.748	-2.254	0.0010
BGIBMGA014040	59.344	12.454	-2.252	0.0010
BGIBMGA013005	7.008	1.477	-2.247	0.0010
BGIBMGA004577	26.213	5.543	-2.242	0.0010
BGIBMGA006456	55.107	11.676	-2.239	0.0010
BGIBMGA002956	12.821	2.726	-2.234	0.0010
BGIBMGA003255	13.404	2.873	-2.222	0.0010
BGIBMGA008255	86.670	18.594	-2.221	0.0010
BGIBMGA012360	2.335	0.506	-2.207	0.0010
BGIBMGA000333	154.838	33.863	-2.193	0.0010
BGIBMGA014498	399.814	87.945	-2.185	0.0010
BGIBMGA000388	12.500	2.753	-2.183	0.0010
BGIBMGA012488	10.029	2.220	-2.176	0.0010
BGIBMGA005149	30.609	6.827	-2.165	0.0010
BGIBMGA007424	4.267	0.952	-2.164	0.0027
BGIBMGA010507	17.547	3.925	-2.161	0.0152
BGIBMGA010251	6.874	1.546	-2.152	0.0142
BGIBMGA009094	306.961	69.244	-2.148	0.0027
BGIBMGA002565	531.378	119.994	-2.147	0.0010
BGIBMGA010235	26.059	5.894	-2.144	0.0010
BGIBMGA008354	372.927	84.861	-2.136	0.0010
BGIBMGA008090	495.553	112.933	-2.134	0.0010
BGIBMGA013489	7.703	1.761	-2.129	0.0010
BGIBMGA004615	154.225	35.307	-2.127	0.0010
BGIBMGA011766	9.838	2.255	-2.125	0.0055
BGIBMGA006540	1.743	0.400	-2.125	0.0405
BGIBMGA003612	83.004	19.038	-2.124	0.0331
BGIBMGA013075	110.543	25.389	-2.122	0.0010
BGIBMGA001862	544.794	125.540	-2.118	0.0010
BGIBMGA011717	586.471	135.677	-2.112	0.0062
BGIBMGA001472	17.808	4.126	-2.110	0.0010
BGIBMGA003719	61.278	14.218	-2.108	0.0010
BGIBMGA004075	1286.180	299.186	-2.104	0.0010
BGIBMGA007900	7.452	1.741	-2.098	0.0263
BGIBMGA008034	20.979	4.905	-2.097	0.0010
BGIBMGA004436	105.072	24.821	-2.082	0.0010
BGIBMGA010761	11.349	2.688	-2.078	0.0010
BGIBMGA007901	7.503	1.787	-2.070	0.0222
BGIBMGA003613	209.686	49.936	-2.070	0.0019
BGIBMGA010069	34.274	8.250	-2.055	0.0010
BGIBMGA008949	2.639	0.638	-2.049	0.0181
BGIBMGA006769	18.730	4.578	-2.033	0.0010
BGIBMGA011423	2.628	0.645	-2.026	0.0453
BGIBMGA013057	12.262	3.036	-2.014	0.0035
BGIBMGA010451	3.883	0.962	-2.013	0.0042
BGIBMGA012308	15.373	3.810	-2.012	0.0010
BGIBMGA001435	18.007	4.482	-2.006	0.0010
BGIBMGA008986	3.915	0.979	-2.000	0.0010
BGIBMGA014242	7.087	1.772	-2.000	0.0010
BGIBMGA004035	598.486	150.165	-1.995	0.0010
BGIBMGA004205	2.110	0.531	-1.992	0.0384
BGIBMGA012523	26.150	6.603	-1.986	0.0010
BGIBMGA010877	14.752	3.748	-1.977	0.0042
BGIBMGA006768	30.479	7.745	-1.977	0.0010
BGIBMGA001145	6.292	1.601	-1.974	0.0019
BGIBMGA012957	19.566	5.019	-1.963	0.0482
BGIBMGA012526	51.092	13.146	-1.958	0.0010
BGIBMGA003598	10.775	2.785	-1.952	0.0010
BGIBMGA012831	68.731	17.813	-1.948	0.0010
BGIBMGA012240	117.154	30.363	-1.948	0.0010
BGIBMGA002581	3.518	0.913	-1.946	0.0142
BGIBMGA007199	14.206	3.691	-1.944	0.0010
BGIBMGA008135	2.239	0.582	-1.943	0.0181
BGIBMGA010409	102.888	26.806	-1.940	0.0010
BGIBMGA009095	496.333	129.315	-1.940	0.0010
BGIBMGA008036	22.348	5.834	-1.938	0.0010
BGIBMGA004421	422.411	110.390	-1.936	0.0010
BGIBMGA005670	21.335	5.590	-1.932	0.0042
BGIBMGA006467	2.243	0.588	-1.932	0.0010
BGIBMGA013006	1.230	0.323	-1.928	0.0085
BGIBMGA010555	16.587	4.358	-1.928	0.0010
BGIBMGA006185	4.595	1.208	-1.928	0.0027
BGIBMGA009563	19.327	5.101	-1.922	0.0010
BGIBMGA013477	84.221	22.294	-1.918	0.0010
BGIBMGA010008	87.829	23.284	-1.915	0.0010
BGIBMGA008450	86.829	23.023	-1.915	0.0010
BGIBMGA008337	83.286	22.098	-1.914	0.0010

BGIBMGA006274	138.732	36.813	-1.914	0.0010
BGIBMGA010544	13.095	3.476	-1.913	0.0102
BGIBMGA004463	6.403	1.700	-1.913	0.0200
BGIBMGA008958	15.967	4.245	-1.911	0.0010
BGIBMGA008091	54.808	14.611	-1.907	0.0010
BGIBMGA002324	1.684	0.449	-1.907	0.0451
BGIBMGA010453	3.570	0.954	-1.904	0.0010
BGIBMGA003411	22.751	6.080	-1.904	0.0010
BGIBMGA001968	12.245	3.293	-1.895	0.0311
BGIBMGA010404	6.703	1.811	-1.888	0.0062
BGIBMGA010070	50.373	13.608	-1.888	0.0010
BGIBMGA011408	2.742	0.742	-1.886	0.0364
BGIBMGA013212	1.947	0.527	-1.885	0.0247
BGIBMGA004045	1457.290	395.649	-1.881	0.0010
BGIBMGA009055	44.128	11.990	-1.880	0.0010
BGIBMGA002175	66.405	18.089	-1.876	0.0010
BGIBMGA011901	12.360	3.372	-1.874	0.0010
BGIBMGA014116	2.121	0.581	-1.867	0.0364
BGIBMGA011064	283.239	77.711	-1.866	0.0010
BGIBMGA010124	3.447	0.946	-1.865	0.0010
BGIBMGA005224	62.161	17.062	-1.865	0.0010
BGIBMGA009775	105.760	29.065	-1.863	0.0010
BGIBMGA009218	66.225	18.226	-1.861	0.0010
BGIBMGA010286	12.567	3.486	-1.850	0.0010
BGIBMGA005399	13.352	3.706	-1.849	0.0155
BGIBMGA011774	285.242	79.267	-1.847	0.0010
BGIBMGA012595	25.645	7.147	-1.843	0.0042
BGIBMGA009054	95.160	26.551	-1.842	0.0019
BGIBMGA004565	7.442	2.077	-1.841	0.0190
BGIBMGA011759	52.185	14.577	-1.840	0.0010
BGIBMGA010613	8.398	2.363	-1.830	0.0112
BGIBMGA012361	3.864	1.089	-1.828	0.0019
BGIBMGA014266	8.559	2.421	-1.822	0.0010
BGIBMGA013000	6.449	1.824	-1.822	0.0010
BGIBMGA011646	14.868	4.216	-1.818	0.0010
BGIBMGA010556	8.838	2.512	-1.815	0.0096
BGIBMGA011703	146.433	41.626	-1.815	0.0010
BGIBMGA006207	50.944	14.568	-1.806	0.0010
BGIBMGA008594	42.759	12.271	-1.801	0.0010
BGIBMGA013565	2.796	0.804	-1.798	0.0027
BGIBMGA014191	5.899	1.698	-1.797	0.0055
BGIBMGA013268	12.702	3.661	-1.795	0.0027
BGIBMGA010332	2.024	0.583	-1.794	0.0027
BGIBMGA011013	3.449	0.995	-1.794	0.0102
BGIBMGA012997	10.673	3.088	-1.789	0.0010
BGIBMGA003915	21.779	6.353	-1.777	0.0010
BGIBMGA000357	109.872	32.096	-1.775	0.0010
BGIBMGA002376	27.909	8.163	-1.774	0.0010
BGIBMGA005129	13.418	3.954	-1.763	0.0010
BGIBMGA003625	5.683	1.689	-1.751	0.0442
BGIBMGA011051	7.746	2.305	-1.748	0.0019
BGIBMGA001469	24.811	7.387	-1.748	0.0494
BGIBMGA006002	5.051	1.506	-1.746	0.0010
BGIBMGA010289	1.595	0.476	-1.744	0.0482
BGIBMGA005094	60.725	18.155	-1.742	0.0010
BGIBMGA000741	12.156	3.636	-1.741	0.0381
BGIBMGA011853	28.736	8.608	-1.739	0.0263
BGIBMGA012239	25.903	7.765	-1.738	0.0010
BGIBMGA010257	99.362	29.838	-1.736	0.0010
BGIBMGA013130	7.127	2.142	-1.734	0.0055
BGIBMGA003656	139.372	41.899	-1.734	0.0010
BGIBMGA014201	350.274	105.304	-1.734	0.0010
BGIBMGA005424	175.291	52.749	-1.733	0.0010
BGIBMGA004065	678.576	204.587	-1.730	0.0010
BGIBMGA009621	4.316	1.308	-1.723	0.0155
BGIBMGA011424	87.583	26.573	-1.721	0.0010
BGIBMGA007780	16.744	5.085	-1.719	0.0010
BGIBMGA012334	41.815	12.704	-1.719	0.0155
BGIBMGA005787	19.074	5.811	-1.715	0.0117
BGIBMGA002120	6.582	2.009	-1.712	0.0048
BGIBMGA003551	719.346	220.179	-1.708	0.0010
BGIBMGA007041	5.108	1.564	-1.708	0.0042
BGIBMGA004257	6.995	2.143	-1.707	0.0010
BGIBMGA000220	4.080	1.252	-1.705	0.0035
BGIBMGA003575	4.080	1.252	-1.704	0.0283
BGIBMGA006993	38.412	11.789	-1.704	0.0010
BGIBMGA011209	115.753	35.619	-1.700	0.0010
BGIBMGA002474	33.248	10.239	-1.699	0.0010
BGIBMGA003131	34.817	10.728	-1.698	0.0091
BGIBMGA010642	137.209	42.300	-1.698	0.0010
BGIBMGA002715	16.598	5.132	-1.693	0.0010
BGIBMGA006785	15.940	4.940	-1.690	0.0010
BGIBMGA006529	13.520	4.209	-1.684	0.0010
BGIBMGA014203	14.678	4.569	-1.684	0.0010
BGIBMGA007586	422.096	131.616	-1.681	0.0010
BGIBMGA005130	27.821	8.697	-1.678	0.0010

BGIBMGA002955	88.134	27.623	-1.674	0.0010
BGIBMGA009742	5.423	1.709	-1.666	0.0010
BGIBMGA013242	34.922	11.042	-1.661	0.0010
BGIBMGA000305	6.426	2.033	-1.660	0.0042
BGIBMGA001392	15.419	4.886	-1.658	0.0243
BGIBMGA013957	5.580	1.780	-1.648	0.0010
BGIBMGA012631	3.442	1.099	-1.647	0.0010
BGIBMGA012958	9.334	2.983	-1.646	0.0042
BGIBMGA008254	36.212	11.592	-1.643	0.0010
BGIBMGA002696	1.220	0.391	-1.643	0.0085
BGIBMGA002074	1.326	0.425	-1.641	0.0451
BGIBMGA013059	5.211	1.674	-1.638	0.0271
BGIBMGA002964	3.040	0.977	-1.638	0.0209
BGIBMGA006203	25.700	8.273	-1.635	0.0010
BGIBMGA010921	7.464	2.403	-1.635	0.0080
BGIBMGA007397	171.180	55.130	-1.635	0.0010
BGIBMGA005441	22.099	7.129	-1.632	0.0010
BGIBMGA010854	13.185	4.257	-1.631	0.0010
BGIBMGA004042	50.860	16.435	-1.630	0.0068
BGIBMGA002564	9.833	3.181	-1.628	0.0142
BGIBMGA009235	163.708	53.099	-1.624	0.0010
BGIBMGA001183	16.897	5.501	-1.619	0.0010
BGIBMGA009162	8.679	2.831	-1.616	0.0335
BGIBMGA011386	26.438	8.626	-1.616	0.0010
BGIBMGA012391	6.168	2.019	-1.611	0.0010
BGIBMGA007458	153.841	50.386	-1.610	0.0010
BGIBMGA012773	82.826	27.315	-1.600	0.0010
BGIBMGA006213	145.840	48.156	-1.599	0.0010
BGIBMGA009680	23.257	7.716	-1.592	0.0074
BGIBMGA006856	6.302	2.095	-1.589	0.0010
BGIBMGA000940	387.281	128.935	-1.587	0.0010
BGIBMGA000329	107.590	35.911	-1.583	0.0010
BGIBMGA009756	15.375	5.163	-1.574	0.0085
BGIBMGA013741	3.627	1.219	-1.573	0.0181
BGIBMGA010403	277.500	93.425	-1.571	0.0010
BGIBMGA004628	22.463	7.563	-1.570	0.0112
BGIBMGA011839	55.181	18.600	-1.569	0.0256
BGIBMGA007649	16.434	5.549	-1.567	0.0010
BGIBMGA011228	2.848	0.963	-1.564	0.0042
BGIBMGA006694	82.160	27.819	-1.562	0.0010
BGIBMGA003611	102.170	34.624	-1.561	0.0010
BGIBMGA012594	90.054	30.603	-1.557	0.0010
BGIBMGA010965	3.101	1.055	-1.555	0.0239
BGIBMGA002138	8.327	2.836	-1.554	0.0010
BGIBMGA008634	5.254	1.792	-1.552	0.0048
BGIBMGA002077	6.710	2.298	-1.546	0.0122
BGIBMGA009681	37.049	12.695	-1.545	0.0010
BGIBMGA011440	11.734	4.027	-1.543	0.0185
BGIBMGA014238	22.515	7.729	-1.542	0.0010
BGIBMGA002534	6.119	2.107	-1.538	0.0209
BGIBMGA009951	12.633	4.357	-1.536	0.0263
BGIBMGA002114	12.175	4.200	-1.536	0.0010
BGIBMGA004566	7.230	2.494	-1.536	0.0168
BGIBMGA014407	52.249	18.058	-1.533	0.0010
BGIBMGA005207	2.582	0.893	-1.532	0.0408
BGIBMGA013490	10.926	3.780	-1.531	0.0160
BGIBMGA010782	9.421	3.268	-1.527	0.0142
BGIBMGA010830	11.623	4.043	-1.524	0.0010
BGIBMGA000738	60.631	21.144	-1.520	0.0010
BGIBMGA004689	18.004	6.307	-1.513	0.0010
BGIBMGA003101	18.742	6.581	-1.510	0.0252
BGIBMGA002767	28.609	10.067	-1.507	0.0010
BGIBMGA010164	25.905	9.117	-1.507	0.0010
BGIBMGA007472	79.409	27.955	-1.506	0.0361
BGIBMGA008854	104.694	36.998	-1.501	0.0010
BGIBMGA008064	45.620	16.127	-1.500	0.0102
BGIBMGA011525	96.056	33.979	-1.499	0.0010
BGIBMGA004557	18.346	6.502	-1.497	0.0035
BGIBMGA002355	255.588	90.624	-1.496	0.0010
BGIBMGA008856	8.241	2.932	-1.491	0.0035
BGIBMGA002548	230.848	82.138	-1.491	0.0019
BGIBMGA012060	3.132	1.115	-1.490	0.0010
BGIBMGA001135	3.349	1.196	-1.485	0.0048
BGIBMGA012681	7.986	2.864	-1.480	0.0474
BGIBMGA006214	144.294	51.891	-1.475	0.0010
BGIBMGA011608	14.701	5.289	-1.475	0.0010
BGIBMGA013163	197.265	71.265	-1.469	0.0010
BGIBMGA000910	32.585	11.842	-1.460	0.0010
BGIBMGA000622	4.772	1.735	-1.459	0.0010
BGIBMGA005988	16.963	6.178	-1.457	0.0010
BGIBMGA003139	14.261	5.198	-1.456	0.0010
BGIBMGA004001	68.352	25.013	-1.450	0.0010
BGIBMGA001018	20.825	7.646	-1.446	0.0068
BGIBMGA010611	221.796	81.542	-1.444	0.0010
BGIBMGA012521	25.304	9.314	-1.442	0.0010
BGIBMGA011595	16.503	6.075	-1.442	0.0068

BGIBMGA010185	5.251	1.936	-1.439	0.0096
BGIBMGA012680	47.254	17.445	-1.438	0.0027
BGIBMGA004629	50.006	18.465	-1.437	0.0010
BGIBMGA008668	14.774	5.458	-1.437	0.0010
BGIBMGA001926	307.983	113.798	-1.436	0.0010
BGIBMGA000179	175.564	65.013	-1.433	0.0010
BGIBMGA004788	26.538	9.849	-1.430	0.0010
BGIBMGA004964	4.826	1.792	-1.429	0.0418
BGIBMGA001287	98.979	36.790	-1.428	0.0091
BGIBMGA013361	42.487	15.816	-1.426	0.0010
BGIBMGA004238	2.427	0.905	-1.423	0.0453
BGIBMGA012708	418.332	156.415	-1.419	0.0010
BGIBMGA012268	101.352	38.102	-1.411	0.0010
BGIBMGA001913	151.848	57.331	-1.405	0.0010
BGIBMGA004486	5.620	2.123	-1.404	0.0485
BGIBMGA008133	28.251	10.681	-1.403	0.0010
BGIBMGA000602	11.024	4.176	-1.400	0.0010
BGIBMGA000424	54.366	20.597	-1.400	0.0010
BGIBMGA011399	215.045	81.696	-1.396	0.0019
BGIBMGA002802	12.060	4.587	-1.395	0.0091
BGIBMGA014209	357.929	136.329	-1.393	0.0010
BGIBMGA002475	43.465	16.591	-1.389	0.0010
BGIBMGA013574	45.054	17.200	-1.389	0.0010
BGIBMGA013782	135.399	51.721	-1.388	0.0019
BGIBMGA008508	16.066	6.144	-1.387	0.0010
BGIBMGA013115	78.422	30.049	-1.384	0.0027
BGIBMGA003512	9.101	3.488	-1.383	0.0055
BGIBMGA000840	20.363	7.817	-1.381	0.0042
BGIBMGA007098	289.695	111.288	-1.380	0.0010
BGIBMGA010855	50.184	19.290	-1.379	0.0019
BGIBMGA007282	19.945	7.669	-1.379	0.0010
BGIBMGA011596	19.888	7.647	-1.379	0.0048
BGIBMGA014226	57.613	22.173	-1.378	0.0010
BGIBMGA005724	122.374	47.301	-1.371	0.0010
BGIBMGA012707	159.743	61.756	-1.371	0.0010
BGIBMGA000874	10.842	4.193	-1.371	0.0464
BGIBMGA013435	29.796	11.540	-1.368	0.0010
BGIBMGA010319	125.440	48.614	-1.368	0.0010
BGIBMGA013576	6.078	2.357	-1.367	0.0096
BGIBMGA002603	323.254	125.478	-1.365	0.0243
BGIBMGA013932	5.306	2.061	-1.365	0.0283
BGIBMGA011218	8.768	3.405	-1.365	0.0010
BGIBMGA012661	13.497	5.242	-1.364	0.0055
BGIBMGA006892	160.114	62.224	-1.364	0.0010
BGIBMGA003321	41.402	16.100	-1.363	0.0010
BGIBMGA004887	4.534	1.764	-1.362	0.0181
BGIBMGA010214	78.804	30.747	-1.358	0.0010
BGIBMGA004595	81.323	31.732	-1.358	0.0010
BGIBMGA001755	17.188	6.711	-1.357	0.0035
BGIBMGA008150	13.247	5.174	-1.356	0.0010
BGIBMGA002651	247.904	96.890	-1.355	0.0010
BGIBMGA012994	66.526	26.009	-1.355	0.0010
BGIBMGA009053	52.362	20.513	-1.352	0.0010
BGIBMGA010874	5.165	2.023	-1.352	0.0062
BGIBMGA011390	2.546	0.999	-1.350	0.0374
BGIBMGA011972	2696.700	1058.670	-1.349	0.0010
BGIBMGA006886	7.199	2.831	-1.346	0.0027
BGIBMGA001162	104.025	40.912	-1.346	0.0010
BGIBMGA001582	584.701	230.282	-1.344	0.0010
BGIBMGA011148	4.451	1.753	-1.344	0.0361
BGIBMGA004596	35.004	13.810	-1.342	0.0074
BGIBMGA002426	4.713	1.860	-1.342	0.0231
BGIBMGA010848	19.027	7.515	-1.340	0.0442
BGIBMGA012369	25.336	10.015	-1.339	0.0010
BGIBMGA012624	5.393	2.132	-1.339	0.0117
BGIBMGA012114	14.766	5.838	-1.339	0.0027
BGIBMGA000620	34.240	13.568	-1.335	0.0010
BGIBMGA012705	128.065	50.774	-1.335	0.0010
BGIBMGA009810	15.298	6.067	-1.334	0.0160
BGIBMGA007919	27.164	10.833	-1.326	0.0042
BGIBMGA006417	25.688	10.254	-1.325	0.0010
BGIBMGA007012	45.304	18.211	-1.315	0.0010
BGIBMGA013017	13.660	5.491	-1.315	0.0080
BGIBMGA011016	220.763	88.817	-1.314	0.0010
BGIBMGA008360	60.839	24.482	-1.313	0.0019
BGIBMGA005727	984.746	396.521	-1.312	0.0010
BGIBMGA013629	21.521	8.669	-1.312	0.0019
BGIBMGA000209	3.432	1.383	-1.312	0.0122
BGIBMGA004545	4.309	1.739	-1.309	0.0117
BGIBMGA003854	55.859	22.567	-1.308	0.0010
BGIBMGA013908	8.923	3.608	-1.306	0.0102
BGIBMGA000661	27.123	10.977	-1.305	0.0010
BGIBMGA007873	1877.130	760.820	-1.303	0.0010
BGIBMGA002526	107.050	43.406	-1.302	0.0010
BGIBMGA009614	376.304	152.865	-1.300	0.0010
BGIBMGA005755	1325.940	539.335	-1.298	0.0010

BGIBMGA003684	272.941	111.270	-1.295	0.0010
BGIBMGA007349	472.118	192.761	-1.292	0.0010
BGIBMGA011415	15.469	6.323	-1.291	0.0164
BGIBMGA007443	22.493	9.200	-1.290	0.0200
BGIBMGA009874	5.035	2.060	-1.289	0.0164
BGIBMGA000114	7.302	3.003	-1.282	0.0378
BGIBMGA000724	407.083	167.527	-1.281	0.0010
BGIBMGA014512	10.222	4.207	-1.281	0.0256
BGIBMGA006255	26.902	11.103	-1.277	0.0346
BGIBMGA008222	343.231	141.867	-1.275	0.0010
BGIBMGA001107	236.066	98.111	-1.267	0.0010
BGIBMGA011196	413.238	171.828	-1.266	0.0091
BGIBMGA004950	94.795	39.458	-1.265	0.0010
BGIBMGA010401	16.430	6.857	-1.261	0.0117
BGIBMGA000886	955.390	399.372	-1.258	0.0010
BGIBMGA003273	9.618	4.023	-1.257	0.0010
BGIBMGA007784	8.220	3.440	-1.257	0.0122
BGIBMGA011029	345.611	144.642	-1.257	0.0010
BGIBMGA009179	9.551	4.002	-1.255	0.0138
BGIBMGA005612	205.599	86.181	-1.254	0.0010
BGIBMGA009191	14.247	5.979	-1.253	0.0035
BGIBMGA006603	153.322	64.470	-1.250	0.0010
BGIBMGA001595	30.471	12.828	-1.248	0.0010
BGIBMGA005105	13.331	5.616	-1.247	0.0010
BGIBMGA009776	405.832	171.455	-1.243	0.0010
BGIBMGA005908	41.587	17.573	-1.243	0.0010
BGIBMGA007876	30.850	13.044	-1.242	0.0010
BGIBMGA000366	12.539	5.304	-1.241	0.0010
BGIBMGA004328	22.098	9.350	-1.241	0.0117
BGIBMGA010763	24.411	10.347	-1.238	0.0010
BGIBMGA001031	29.583	12.548	-1.237	0.0042
BGIBMGA002222	369.390	156.763	-1.237	0.0010
BGIBMGA011035	4.527	1.922	-1.236	0.0195
BGIBMGA003614	129.166	54.945	-1.233	0.0048
BGIBMGA007350	69.970	29.771	-1.233	0.0019
BGIBMGA006913	6.000	2.554	-1.232	0.0235
BGIBMGA005199	9.894	4.213	-1.232	0.0010
BGIBMGA004934	5.164	2.209	-1.225	0.0276
BGIBMGA001864	85.721	36.730	-1.223	0.0231
BGIBMGA008860	13.219	5.685	-1.217	0.0010
BGIBMGA006869	12.889	5.554	-1.215	0.0296
BGIBMGA007151	40.111	17.321	-1.211	0.0010
BGIBMGA001481	23.295	10.061	-1.211	0.0117
BGIBMGA001091	65.684	28.390	-1.210	0.0010
BGIBMGA002722	10.445	4.518	-1.209	0.0279
BGIBMGA002225	122.291	53.113	-1.203	0.0085
BGIBMGA007785	13.838	6.042	-1.196	0.0027
BGIBMGA001798	2.548	1.115	-1.192	0.0453
BGIBMGA007861	355.655	155.790	-1.191	0.0010
BGIBMGA012031	13.569	5.946	-1.190	0.0107
BGIBMGA011017	37.104	16.272	-1.189	0.0019
BGIBMGA003864	35.607	15.616	-1.189	0.0035
BGIBMGA011645	234.008	102.634	-1.189	0.0010
BGIBMGA010090	23.652	10.398	-1.186	0.0010
BGIBMGA002573	3.457	1.523	-1.182	0.0361
BGIBMGA012585	30.951	13.642	-1.182	0.0010
BGIBMGA013131	77.536	34.243	-1.179	0.0019
BGIBMGA005536	72.932	32.214	-1.179	0.0048
BGIBMGA001030	833.013	368.490	-1.177	0.0010
BGIBMGA002574	44.771	19.815	-1.176	0.0010
BGIBMGA013812	7.338	3.249	-1.175	0.0177
BGIBMGA014378	13.475	5.983	-1.171	0.0243
BGIBMGA009048	165.848	73.727	-1.170	0.0010
BGIBMGA002315	28.849	12.842	-1.168	0.0048
BGIBMGA005135	32.173	14.333	-1.167	0.0019
BGIBMGA007319	28.411	12.662	-1.166	0.0062
BGIBMGA011929	4278.740	1910.310	-1.163	0.0010
BGIBMGA008422	38.299	17.162	-1.158	0.0195
BGIBMGA003703	4.920	2.205	-1.158	0.0102
BGIBMGA001276	149.421	66.990	-1.157	0.0010
BGIBMGA009014	12.187	5.466	-1.157	0.0127
BGIBMGA011485	4.349	1.952	-1.156	0.0405
BGIBMGA006559	34.783	15.616	-1.155	0.0010
BGIBMGA005080	21.500	9.654	-1.155	0.0048
BGIBMGA000892	14.924	6.701	-1.155	0.0122
BGIBMGA002349	85.127	38.266	-1.154	0.0027
BGIBMGA006655	20.958	9.424	-1.153	0.0010
BGIBMGA007360	19.685	8.856	-1.152	0.0127
BGIBMGA008273	11.280	5.075	-1.152	0.0384
BGIBMGA008019	25.486	11.471	-1.152	0.0010
BGIBMGA002639	24.675	11.107	-1.152	0.0010
BGIBMGA005876	2.969	1.338	-1.150	0.0243
BGIBMGA006234	23.815	10.758	-1.146	0.0048
BGIBMGA004781	28.744	12.992	-1.146	0.0252
BGIBMGA010546	26.710	12.074	-1.145	0.0019
BGIBMGA005144	207.099	93.844	-1.142	0.0010

BGIBMGA000788	80.426	36.466	-1.141	0.0019
BGIBMGA011834	366.220	166.264	-1.139	0.0010
BGIBMGA000392	13.328	6.054	-1.139	0.0292
BGIBMGA011086	95.678	43.475	-1.138	0.0214
BGIBMGA014112	36.153	16.447	-1.136	0.0456
BGIBMGA012510	12.532	5.703	-1.136	0.0271
BGIBMGA014129	22.390	10.207	-1.133	0.0185
BGIBMGA007334	491.916	224.324	-1.133	0.0470
BGIBMGA014288	904.307	413.210	-1.130	0.0247
BGIBMGA003842	40.952	18.764	-1.126	0.0080
BGIBMGA011482	53.068	24.364	-1.123	0.0010
BGIBMGA012670	56.412	25.923	-1.122	0.0010
BGIBMGA007802	200.443	92.207	-1.120	0.0010
BGIBMGA012939	30.829	14.188	-1.120	0.0027
BGIBMGA006978	75.016	34.628	-1.115	0.0010
BGIBMGA001288	52.470	24.270	-1.112	0.0035
BGIBMGA008895	9.002	4.169	-1.111	0.0209
BGIBMGA014049	6.967	3.229	-1.110	0.0019
BGIBMGA000612	166.412	77.141	-1.109	0.0010
BGIBMGA001381	23.857	11.066	-1.108	0.0138
BGIBMGA006273	33.685	15.637	-1.107	0.0027
BGIBMGA004858	22.878	10.628	-1.106	0.0048
BGIBMGA005097	74.485	34.620	-1.105	0.0010
BGIBMGA003034	14.064	6.550	-1.102	0.0112
BGIBMGA008495	21.867	10.190	-1.102	0.0235
BGIBMGA012055	120.642	56.220	-1.102	0.0190
BGIBMGA011791	17.839	8.321	-1.100	0.0263
BGIBMGA007627	66.585	31.105	-1.098	0.0260
BGIBMGA013776	18.383	8.590	-1.098	0.0042
BGIBMGA013168	15.659	7.323	-1.097	0.0311
BGIBMGA011385	8.902	4.165	-1.096	0.0263
BGIBMGA003561	37.213	17.435	-1.094	0.0080
BGIBMGA009828	34.576	16.266	-1.088	0.0010
BGIBMGA008876	8.465	3.988	-1.086	0.0432
BGIBMGA007755	64.471	30.419	-1.084	0.0042
BGIBMGA007824	149.796	70.699	-1.083	0.0010
BGIBMGA005188	24.326	11.490	-1.082	0.0019
BGIBMGA010026	91.198	43.117	-1.081	0.0164
BGIBMGA002968	28.337	13.398	-1.081	0.0343
BGIBMGA008415	20.216	9.623	-1.071	0.0311
BGIBMGA013482	22.073	10.514	-1.070	0.0035
BGIBMGA003160	112.132	53.428	-1.070	0.0019
BGIBMGA006528	32.069	15.282	-1.069	0.0155
BGIBMGA000486	18.001	8.587	-1.068	0.0042
BGIBMGA012729	25.366	12.108	-1.067	0.0010
BGIBMGA009609	16.094	7.701	-1.063	0.0138
BGIBMGA008116	23.375	11.198	-1.062	0.0062
BGIBMGA011531	116.284	55.740	-1.061	0.0010
BGIBMGA009774	4.767	2.290	-1.058	0.0222
BGIBMGA011297	50.542	24.277	-1.058	0.0027
BGIBMGA009159	103.920	49.974	-1.056	0.0096
BGIBMGA014105	263.859	126.921	-1.056	0.0010
BGIBMGA010267	7.953	3.830	-1.054	0.0304
BGIBMGA011309	18.480	8.914	-1.052	0.0019
BGIBMGA004194	32.556	15.708	-1.051	0.0027
BGIBMGA012960	107.240	51.742	-1.051	0.0107
BGIBMGA010764	20.662	9.974	-1.051	0.0164
BGIBMGA009229	34.228	16.526	-1.050	0.0357
BGIBMGA013191	47.079	22.755	-1.049	0.0048
BGIBMGA008451	69.393	33.604	-1.046	0.0048
BGIBMGA000529	56.200	27.227	-1.046	0.0010
BGIBMGA007063	85.665	41.538	-1.044	0.0010
BGIBMGA000587	4.865	2.361	-1.043	0.0374
BGIBMGA005196	27.578	13.402	-1.041	0.0074
BGIBMGA000348	23.088	11.225	-1.040	0.0326
BGIBMGA003138	20.795	10.115	-1.040	0.0138
BGIBMGA003841	13.483	6.563	-1.039	0.0048
BGIBMGA001019	28.716	13.994	-1.037	0.0402
BGIBMGA000419	113.476	55.397	-1.035	0.0010
BGIBMGA000232	1542.530	753.604	-1.033	0.0010
BGIBMGA001391	18.403	9.007	-1.031	0.0354
BGIBMGA007438	11.896	5.832	-1.029	0.0395
BGIBMGA004807	14.122	6.924	-1.028	0.0243
BGIBMGA010266	6.834	3.354	-1.027	0.0322
BGIBMGA007120	218.392	107.328	-1.025	0.0010
BGIBMGA005685	4.889	2.404	-1.024	0.0311
BGIBMGA005658	165.883	81.673	-1.022	0.0035
BGIBMGA014068	24.819	12.236	-1.020	0.0019
BGIBMGA004898	18.585	9.164	-1.020	0.0042
BGIBMGA001190	200.452	98.875	-1.020	0.0010
BGIBMGA010599	6.633	3.278	-1.017	0.0384
BGIBMGA006144	40.860	20.199	-1.016	0.0010
BGIBMGA005931	55.489	27.476	-1.014	0.0010
BGIBMGA011082	21.795	10.798	-1.013	0.0019
BGIBMGA011025	19.334	9.584	-1.012	0.0019
BGIBMGA007503	67.557	33.507	-1.012	0.0010

BGIBMGA009420	72.657	36.036	-1.012	0.0010
BGIBMGA005748	25.638	12.752	-1.008	0.0122
BGIBMGA010361	194.850	97.093	-1.005	0.0010
BGIBMGA012995	417.668	208.230	-1.004	0.0010
BGIBMGA003506	32.018	15.964	-1.004	0.0010
BGIBMGA008875	50.842	25.352	-1.004	0.0010
BGIBMGA005528	58.024	28.986	-1.001	0.0102
BGIBMGA000422	36.966	18.483	-1.000	0.0152
