

id	baseMean A	baseMean B	baseMean C	log2FoldChange	pval
GH_D12G2239	5302.969008	1.014883893	10604.92313	13.35113186	2.50763E-81
GH_D06G1267	1119.968269	0.507441947	2239.429095	12.10760059	3.124E-59
GH_D06G1266	176.0941791	0	352.1883581	Inf	2.78351E-30
GH_A11G1929	145.3333594	4.273689011	286.3930298	6.066370641	6.46065E-21
GH_A09G1680	85.63052938	0	171.2610588	Inf	2.10058E-20
GH_A13G1414	79.23797093	0	158.4759419	Inf	2.05539E-19
GH_D03G0833	69.39000171	0	138.7800034	Inf	8.20619E-18
GH_A10G2376	440.0129705	61.88823253	818.1377084	3.724606672	7.38806E-16
GH_D06G2079	771.2352535	137.9674007	1404.503106	3.347660486	1.17694E-14
GH_D03G1716	453.1138046	79.40772864	826.8198805	3.380221743	1.70007E-14
GH_A10G2379	132.2295189	13.39601816	251.0630197	4.2281734	1.67295E-13
GH_A08G0271	76.54535586	6.230134671	146.8605771	4.559040015	1.7476E-11
GH_D09G0167	51.29490606	0.941561766	101.6482504	6.754313929	2.3099E-11
GH_D10G2470	207.0529395	42.78696047	371.3189186	3.117415722	2.42639E-10
GH_A11G0919	218.3691671	52.29915203	384.4391821	2.877895923	1.19555E-09
GH_A09G0886	36.7652463	1.014883893	72.5156087	6.158904971	2.73742E-09
GH_A06G1280	28.4067681	0	56.81353619	Inf	3.0551E-09
GH_D02G2158	80.38447423	12.16116789	148.6077806	3.611155963	1.03608E-08
GH_D13G1938	169.9087057	23.55067004	316.2667413	3.747301838	5.14392E-08
GH_D09G0405	406.334901	142.7239592	669.9458427	2.230816933	1.07887E-07
GH_A01G2146	3610.313817	1404.618328	5816.009306	2.049851412	1.14456E-07
GH_A11G1040	37.55535679	2.971329553	72.13938402	4.601606575	1.20737E-07
GH_A12G1937	85.70038234	17.52306292	153.8777018	3.134457311	1.47736E-07
GH_D05G0924	539.3161465	200.0917178	878.5405753	2.134447466	1.78982E-07
GH_D08G0285	140.8590545	41.81276718	239.9053418	2.520449852	3.75883E-07
GH_D02G0268	146.4850849	12.53359147	280.4365783	4.483802758	5.82953E-07
GH_A05G0933	373.8040718	143.5363156	604.071828	2.073304311	7.13404E-07
GH_D13G0063	19.41290251	0	38.82580501	Inf	8.08327E-07
GH_D12G0647	91.84024099	23.61817923	160.0623028	2.760663916	9.37247E-07
GH_A05G1636	62.44797256	12.68023572	112.2157094	3.145621187	1.05923E-06

GH_D11G1069	185.0950258	63.60370617	306.5863453	2.269110706	1.39336E-06
GH_D12G2853	241.0902842	88.43929684	393.7412716	2.154488482	1.69007E-06
GH_A12G0099	135.4136814	43.250145	227.5772179	2.395579266	1.84289E-06
GH_D08G0284	29.28403058	1.95644566	56.61161551	4.854791149	2.38125E-06
GH_A12G0632	134.5750409	42.94523061	226.2048511	2.397060046	2.51391E-06
GH_D04G0028	820.2635783	355.543737	1284.98342	1.853650796	3.1357E-06
GH_D02G0264	34.72925583	3.839569192	65.61894248	4.095095992	3.63316E-06
GH_A05G4218	16.77121123	0	33.54242245	Inf	4.68473E-06
GH_D01G2159	3455.518182	1621.093117	5289.943248	1.706285282	5.10485E-06
GH_D06G0791	83.87717632	23.90565479	143.8486979	2.589128334	6.12746E-06
GH_A11G3279	15.8972625	0	31.794525	Inf	8.25589E-06
GH_A09G0436	304.1768871	129.835383	478.5183912	1.881890771	9.25296E-06
GH_D12G1645	54.34247676	11.58040382	97.1045497	3.067853331	9.53448E-06
GH_A01G2058	450.3824022	196.041562	704.7232424	1.845897249	9.54453E-06
GH_D10G1390	90.8937632	27.51944466	154.2680817	2.486916336	1.04464E-05
GH_A05G2824	67.94006369	17.81635143	118.0637759	2.728292562	1.0854E-05
GH_D10G0921	99.68173879	32.52635494	166.8371226	2.358759275	1.19425E-05
GH_D02G2627	255.4849838	55.77792353	455.1920441	3.02870921	1.42952E-05
GH_D05G1666	27.28138742	2.898007426	51.66476742	4.156047579	1.44891E-05
GH_D05G3992	17.66702987	0.43411982	34.89993992	6.328987453	1.83831E-05
GH_D12G2967	367.2064868	37.79167607	696.6212975	4.204234171	1.92075E-05
GH_A01G0318	54.35904961	13.40183111	95.31626811	2.830292336	1.99098E-05
GH_A07G2201	567.1933062	268.6580768	865.7285356	1.688143502	2.0234E-05
GH_A08G0400	188.0413279	76.33982519	299.7428307	1.973217459	2.29115E-05
GH_A12G0631	149.4154966	52.3782871	246.4527061	2.234270036	2.80281E-05
GH_D01G0096	393.9069554	173.6989236	614.1149872	1.821919998	3.04126E-05
GH_A01G0170	28.52515669	3.839569192	53.21074419	3.792701229	3.22283E-05
GH_A05G4206	330.6556577	149.2625751	512.0487402	1.778428661	3.46587E-05
GH_D01G0464	134.2956379	51.41928651	217.1719893	2.078456541	3.65631E-05
GH_A05G1635	521.24618	69.8280279	972.6643321	3.800063881	3.77525E-05
GH_D06G0015	572.943072	267.9364815	877.9496625	1.712247197	4.12194E-05

GH_D10G0457	147.013389	60.79064676	233.2361312	1.939870024	4.81628E-05
GH_D09G0614	119.4548756	44.96918545	193.9405658	2.10860594	4.90665E-05
GH_A05G1223	17.97087328	1.014883893	34.92686268	5.104950466	5.02289E-05
GH_A01G0105	359.7474246	170.5425054	548.9523437	1.686549554	5.11852E-05
GH_D06G0779	88.90728087	30.63160552	147.1829562	2.264517726	5.69297E-05
GH_A12G1799	108.9985088	41.65449704	176.3425206	2.081836224	6.20545E-05
GH_A04G1203	162.5549407	64.03201304	261.0778683	2.027614894	6.55389E-05
GH_D12G0052	100.9865535	38.25486061	163.7182463	2.097500147	6.61876E-05
GH_D07G2193	170.1503907	74.04583361	266.2549477	1.846317869	6.92309E-05
GH_A01G0106	692.7069338	349.5125631	1035.901304	1.567470338	7.11161E-05
GH_A07G0767	200.2555766	90.187402	310.3237511	1.782776293	8.59507E-05
GH_A03G2316	28.69520292	4.341198195	53.04920764	3.611166008	8.80125E-05
GH_D06G2053	27.43255094	3.980400503	50.88470138	3.676246466	8.80655E-05
GH_A04G1168	58.49107831	1.809801405	115.1723552	5.991819264	9.60118E-05
GH_A12G2829	338.3519659	163.9842045	512.7197273	1.644613551	9.90979E-05
GH_A13G2260	106.0958758	42.16775193	170.0239998	2.01152639	0.000101847
GH_D12G0107	95.59791401	36.65921264	154.5366154	2.075701001	0.000103452
GH_D02G0070	591.6259523	247.6271777	935.6247269	1.917760327	0.000112153
GH_A12G2771	94.24983428	22.81744877	165.6822198	2.860209391	0.000129893
GH_D01G2237	1491.31277	799.2299155	2183.395625	1.449891076	0.000140407
GH_A09G2227	932.1560423	464.0012952	1400.310789	1.593546321	0.000146296
GH_A13G2313	8229.607438	4542.560847	11916.65403	1.391401467	0.000148286
GH_A06G2325	72.40777641	24.76226854	120.0532843	2.277459476	0.000149168
GH_A13G2198	579.815475	305.4639337	854.1670163	1.483516139	0.000151539
GH_D02G1897	306.6885238	150.8023398	462.5747078	1.617027573	0.000152755
GH_A03G1562	162.6071882	74.33912212	250.8752544	1.754776618	0.000158511
GH_A02G1968	126.5957894	54.03563131	199.1559475	1.881915619	0.00016394
GH_A06G0434	112.8612389	47.30968058	178.4127972	1.915011776	0.000165123
GH_D01G1407	343.6021192	173.0448374	514.1594009	1.571069795	0.000184838
GH_A06G0804	71.34127682	24.98223492	117.7003187	2.236143775	0.000186132
GH_A12G1637	58.92608676	18.82542238	99.02675114	2.395136074	0.000190724

GH_A01G2389	49.41829749	14.55754631	84.27904867	2.533406821	0.000190824
GH_A06G1934	35.60821345	8.474055896	62.742371	2.888315499	0.000228745
GH_D10G2465	53.32350645	2.604718917	104.042294	5.319898609	0.00023407
GH_A05G4342	170.5012845	80.63676597	260.3658031	1.691030291	0.000237474
GH_A10G1088	25.89969061	0	51.79938121	Inf	0.000245382
GH_A07G1467	27.54586831	5.215250778	49.87648583	3.257551288	0.000249812
GH_D11G2850	102.1597146	41.78370246	162.5357268	1.95974463	0.000252483
GH_D01G2467	70.06467342	25.64213407	114.4872128	2.15859823	0.00025677
GH_A09G1328	19.88159623	2.537209733	37.22598273	3.874995248	0.000268232
GH_D07G0123	411.4386528	192.8583251	630.0189804	1.707853869	0.000269032
GH_A03G0087	32.53081039	1.014883893	64.04673689	5.979738477	0.000283751
GH_A03G2201	563.1050988	305.0740713	821.1361263	1.42846184	0.000291097
GH_D01G0420	186.1410947	90.55401264	281.7281768	1.637453384	0.000316197
GH_D07G0549	299.0580019	18.5495727	579.566431	4.965516176	0.000327724
GH_D13G0429	167.3493013	79.09118836	255.6074143	1.692340808	0.000332117
GH_A07G0167	382.8134173	200.9192668	564.7075678	1.49088805	0.000335132
GH_D10G1266	47.6345787	15.14412333	80.12503407	2.403495	0.000335559
GH_D12G2755	471.5949877	178.0866254	765.10335	2.103075469	0.000336322
GH_D08G2785	44.18340146	13.1085426	75.25826032	2.521342644	0.000362665
GH_D12G1794	55.38354712	19.5644566	91.20263765	2.220840509	0.000409302
GH_D12G1850	10.38538347	0	20.77076694	Inf	0.000413988
GH_D05G2976	48.41270066	15.71907446	81.10632686	2.367298185	0.000434194
GH_D05G1420	122.1943537	55.7046014	188.684106	1.760104491	0.000436391
GH_D03G1186	71.39819187	27.89186824	114.9045155	2.042519018	0.000437399
GH_D02G0068	748.7551498	301.5849946	1195.925305	1.98749073	0.000442987
GH_A06G1737	402.9856049	208.4191294	597.5520804	1.519576759	0.000508005
GH_D13G1675	564.9885609	314.2348449	815.7422769	1.376270256	0.000510794
GH_D13G2098	315.0084791	169.6067565	460.4102016	1.440726158	0.000511765
GH_A07G1847	51.24014977	17.52887587	84.95142368	2.276904647	0.000549435
GH_A05G0685	35.15621413	6.884220872	63.42820739	3.203759279	0.000559457
GH_D02G0764	34.03605605	1.014883893	67.05722821	6.046006259	0.000578392

GH_D08G0143	9.834160869	0	19.66832174	Inf	0.000616171
GH_D05G1166	1095.14391	625.3320311	1564.955789	1.323427578	0.000621088
GH_A08G2792	44.24123739	12.82106703	75.66140775	2.561041284	0.000633403
GH_A06G1795	370.2069461	203.1980657	537.2158265	1.402615139	0.000646983
GH_D01G0497	20.42076795	3.185482991	37.65605292	3.563297746	0.000692483
GH_A05G1405	92.83406398	41.14705509	144.5210729	1.812418785	0.000697463
GH_A03G0755	103.01204	46.94306994	159.08101	1.760777528	0.000698622
GH_D13G1399	87.80246033	38.24904766	137.355873	1.844422865	0.000706522
GH_A07G0405	1383.93956	810.1526663	1957.726454	1.272913494	0.000729633
GH_D08G1263	140.285133	59.76994992	220.8003162	1.885249999	0.000737368
GH_A02G0218	102.5881308	47.74961334	157.4266482	1.721118816	0.00075434
GH_A11G0963	166.6609265	83.80481013	249.517043	1.574033403	0.00075507
GH_D13G2310	2782.377569	1648.517308	3916.237831	1.248299347	0.000776974
GH_A13G2624	234.0530519	124.6026934	343.5034103	1.462989168	0.000783583
GH_A07G0894	1005.016327	586.1552937	1423.87736	1.280470048	0.000841668
GH_D10G2037	42.46156823	14.27588369	70.64725277	2.307053408	0.000856457
GH_D08G2477	37.53076499	5.288572905	69.77295708	3.721717603	0.000896754
GH_D11G0574	361.2393529	202.9955382	519.4831676	1.355628986	0.000915525
GH_A09G0437	34.60764905	10.14302599	59.07227211	2.541992985	0.000921961
GH_D10G1961	277.6920727	151.1689504	404.2151949	1.41896171	0.00092663
GH_A07G2532	535.1816329	244.9782014	825.3850645	1.752413951	0.000935077
GH_D09G2123	11.38517007	0.507441947	22.26289819	5.455254823	0.00094469
GH_D10G1751	220.6927012	117.4426229	323.9427796	1.463782908	0.00095411
GH_D05G0626	73.26969738	26.14957602	120.3898187	2.20285393	0.000971099
GH_A13G2531	300.6339514	160.094565	441.1733379	1.462421274	0.001014188
GH_D08G1324	169.7896623	87.87015865	251.7091659	1.518312549	0.001023524
GH_A12G2502	221.0345255	88.95255173	353.1164993	1.989036335	0.001049077
GH_D12G3008	1228.797919	732.6571259	1724.938711	1.235335004	0.001089412
GH_D07G1005	793.7350453	361.0277038	1226.442387	1.76429801	0.001109505
GH_D05G3883	9.040980416	0	18.08196083	Inf	0.001110451
GH_D02G0279	26.99255855	6.810898745	47.17421835	2.792081524	0.001149851

GH_A08G0269	12.9328451	0	25.86569019	Inf	0.001169662
GH_D11G0994	111.0413439	53.96812212	168.1145658	1.639265335	0.001217097
GH_D01G0463	636.7710852	376.7177136	896.8244568	1.25134175	0.001263609
GH_A04G0036	64.57822117	26.28459438	102.871848	1.96855885	0.001279151
GH_D09G2160	1646.995447	967.6809568	2326.309936	1.265439945	0.001287114
GH_A07G2199	42.82285868	15.65737822	69.98833914	2.160271915	0.001328683
GH_D08G0745	25.68318064	5.361895032	46.00446625	3.100959048	0.00136242
GH_D09G2230	179.999353	97.60231659	262.3963895	1.426760573	0.001381556
GH_A06G2198	23.52131351	5.581861413	41.4607656	2.892928546	0.001391772
GH_D08G2157	593.7021735	189.8570054	997.5473417	2.393472078	0.001399251
GH_D08G2793	33.56610974	7.899104765	59.23311472	2.906642889	0.001459665
GH_A06G1679	595.1926905	352.2697392	838.1156419	1.250468769	0.001477235
GH_D12G0125	61.82996634	25.78877832	97.87115436	1.924140285	0.001499969
GH_D12G1157	93.19841854	42.07699097	144.3198461	1.778166263	0.001501355
GH_D08G0415	66.5182833	28.83343	104.2031366	1.853584331	0.001609122
GH_D07G0132	18.65230994	3.332127245	33.97249264	3.349851676	0.001633145
GH_A12G2467	34.54077501	3.986213446	65.09533657	4.029463324	0.001654515
GH_A09G1921	16.19130527	2.537209733	29.8454008	3.556193941	0.001787268
GH_D11G0199	41.35222614	14.55754631	68.14690597	2.226880948	0.001818914
GH_D05G3885	8.241069274	0	16.48213855	Inf	0.00201898
GH_D01G0636	175.8085521	63.24872142	288.3683829	2.188804773	0.00202526
GH_D11G3228	67.66984773	30.20911159	105.1305839	1.799126767	0.002036138
GH_A01G0365	483.5220747	291.9771546	675.0669948	1.209175193	0.002041016
GH_A05G2116	123.1163976	64.19028319	182.042512	1.503848568	0.002047551
GH_D05G1410	279.8612878	162.942502	396.7800735	1.283976608	0.002060235
GH_D12G2360	15.84165638	2.537209733	29.14610303	3.521988314	0.002081519
GH_A12G0222	678.3235952	411.8139098	944.8332806	1.198067222	0.002091724
GH_D05G2890	504.5005268	301.2496948	707.7513587	1.232282834	0.002120705
GH_D02G0069	352.9477224	184.6636857	521.231759	1.497024804	0.002121081
GH_D05G4004	21.2836098	1.375681586	41.19153802	4.904129506	0.002130102
GH_A05G1477	186.9869903	104.7623871	269.2115935	1.361619702	0.002216509

GH_A12G2726	522.1283249	257.8050814	786.4515684	1.609077224	0.002218346
GH_D11G0831	124.2194932	64.39281074	184.0461756	1.515096242	0.002260029
GH_D10G0075	16.82568944	2.824685299	30.82669359	3.448018108	0.002262786
GH_A01G0644	194.6070713	109.6901624	279.5239803	1.349537914	0.002288853
GH_A04G1209	163.8030491	88.42767095	239.1784273	1.435517476	0.00229829
GH_A05G0629	106.4781667	53.82147787	159.1348555	1.563995954	0.002302004
GH_A13G1786	71.76776617	33.76701816	109.7685142	1.700777602	0.002435912
GH_A12G1309	375.3337734	131.0934851	619.5740616	2.240680757	0.002477602
GH_A05G0912	130.1320044	69.84546673	190.418542	1.446935581	0.002542646
GH_D10G2466	2000.810021	595.4524064	3406.167637	2.516091334	0.002550106
GH_A09G0560	63.1841465	27.95937742	98.40891558	1.81545679	0.002565792
GH_A13G1128	291.9994966	156.0408423	427.9581508	1.455546034	0.002585319
GH_D01G0087	29.4918602	9.201464224	49.78225618	2.435696256	0.00260787
GH_A07G2040	26.70682004	7.825782638	45.58785744	2.542342662	0.002649908
GH_A13G2341	67.76405697	31.15067335	104.3774406	1.744474678	0.00265621
GH_D13G1867	1064.760897	519.8489741	1609.672821	1.630603019	0.00266323
GH_A12G1965	442.1484058	218.6913609	665.6054506	1.605771018	0.002722907
GH_A07G0431	273.0253166	160.3878535	385.6627797	1.265775031	0.002740858
GH_A10G2580	327.1991214	187.091375	467.3068678	1.320627189	0.002748996
GH_A09G2228	5545.424394	3527.340333	7563.508454	1.100474827	0.002813777
GH_D03G1875	35.51385911	12.53359147	58.49412675	2.2224919	0.002855284
GH_A01G0634	120.5894519	63.45124897	177.7276548	1.485947718	0.002907687
GH_A05G0217	63.19407142	26.80947516	99.57866768	1.893093736	0.002941214
GH_A07G1418	323.4210474	182.0880315	464.7540634	1.35183138	0.00299716
GH_D13G0473	374.5074874	221.0622414	527.9527334	1.255956148	0.003095668
GH_A05G1798	1167.55255	726.280347	1608.824754	1.147408738	0.003127655
GH_D12G1628	296.147801	127.3679286	464.9276734	1.868004249	0.00316426
GH_A13G1255	170.6019096	94.91264966	246.2911696	1.37569262	0.003206056
GH_A13G1721	309.3889375	186.0358005	432.7420745	1.217927119	0.003230364
GH_D08G1860	179.3181274	80.20264615	278.4336086	1.795611622	0.003259078
GH_D11G0071	44.50852047	18.26209714	70.7549438	1.953978508	0.003291667

GH_A10G2381	809.2323896	66.54015806	1551.924621	4.543689382	0.003310331
GH_D05G1256	261.3871877	155.8383148	366.9360606	1.235478711	0.003386042
GH_D05G0300	26.87074989	8.113258203	45.62824158	2.491573749	0.003404735
GH_A05G3214	320.8683105	193.8557702	447.8808509	1.208131307	0.003464794
GH_A01G2403	3786.399909	2339.368405	5233.431414	1.161638115	0.003494859
GH_D06G0407	123.3539189	60.42984906	186.2779888	1.624123967	0.003543921
GH_A11G0501	502.1901442	308.2456823	696.134606	1.175285609	0.003570673
GH_D05G1667	53.92897427	20.5677146	87.29023393	2.085438757	0.003591231
GH_D01G0347	424.9427007	250.9651179	598.9202835	1.254877137	0.003707717
GH_D03G1481	177.1345992	101.5652783	252.7039201	1.315040767	0.003725583
GH_D13G2221	79.6011636	40.14379708	119.0585301	1.568422	0.00375882
GH_D09G1551	636.7723732	400.3010151	873.2437313	1.125299107	0.003809491
GH_D06G0265	661.32409	405.8202548	916.8279251	1.175810114	0.003869604
GH_A01G1556	582.7201939	368.5311332	796.9092546	1.112628949	0.004100969
GH_D10G1788	141.0874052	79.4019157	202.7728948	1.352619096	0.004109613
GH_A06G1514	68.45019951	33.03379689	103.8666021	1.652717129	0.004158206
GH_D04G1888	156.7910219	88.58594109	224.9961028	1.344750351	0.004174759
GH_D05G2889	40.63737984	16.15319428	65.12156539	2.011315895	0.004238489
GH_D06G2043	410.0861246	58.56191823	761.6103309	3.701018333	0.004241521
GH_A08G2800	19.75266799	4.927775212	34.57756076	2.810827747	0.004261006
GH_D01G0423	68.28371015	32.74050838	103.8269119	1.66503181	0.004353401
GH_A09G1614	13.20237882	1.883123532	24.52163411	3.702855574	0.004393891
GH_A12G2141	497.0375445	197.9828149	796.0922741	2.007560453	0.004395842
GH_D06G1764	423.142736	263.0914081	583.194064	1.148411901	0.004476652
GH_A09G1993	27.79551611	8.981497842	46.60953437	2.375597132	0.004483901
GH_D05G3925	10.5468996	0.941561766	20.15223744	4.419740477	0.004500733
GH_A01G1052	370.638639	194.5156693	546.7616087	1.491025569	0.004671299
GH_D05G3871	42.59472485	17.01562098	68.17382873	2.002358206	0.004704041
GH_A13G1859	29.80885885	7.899104765	51.71861294	2.710922522	0.00470829
GH_D05G2446	704.8968864	444.798957	964.9948158	1.117367787	0.004751192
GH_D12G2518	325.5922696	158.668813	492.5157262	1.634151202	0.004773436

GH_A12G0384	154.6520957	89.26909201	220.0350994	1.30150102	0.00487502
GH_A04G0136	37.66940487	10.2838573	65.05495243	2.661277392	0.004989497
GH_A13G0880	90.09132647	47.30386763	132.8787853	1.49008074	0.005066092
GH_A05G0554	1057.299464	684.3768188	1430.222109	1.063376412	0.005089092
GH_A11G1467	23.09697079	6.884220872	39.30972072	2.513520824	0.005106679
GH_D06G1976	25.12146235	6.52342318	43.71950152	2.744575826	0.005194976
GH_D12G0152	82.62506155	26.1612019	139.0889212	2.410506782	0.005256142
GH_scaffold7261_objG0001	1608.380455	1039.54364	2177.21727	1.066535061	0.005266943
GH_A10G2374	151.0118756	18.53213387	283.4916174	3.935205162	0.005284824
GH_A11G2867	1553.600281	1016.671233	2090.529328	1.040015061	0.005298589
GH_D07G1809	1253.411671	819.7439929	1687.07935	1.041282501	0.005356094
GH_D12G0645	379.5188242	235.0377029	523.9999455	1.15667446	0.005368646
GH_D12G0236	756.7333827	489.7051255	1023.76164	1.063894654	0.005479813
GH_D02G1765	15.04076244	2.898007426	27.18351745	3.229598951	0.005527302
GH_A10G0215	31.62166787	11.5920297	51.65130604	2.155671633	0.005528284
GH_D05G1807	128.0594309	71.92530487	184.1935569	1.35665126	0.005542065
GH_A01G2197	122.9443418	69.47885609	176.4098275	1.344285027	0.005550527
GH_A03G0829	117.7167316	66.65998373	168.7734794	1.34019535	0.005715081
GH_A09G1423	172.9972848	101.007766	244.9868037	1.278237821	0.005717751
GH_D05G2891	1380.283706	101.58853	2658.978883	4.710062892	0.006021149
GH_D07G0093	19.50940077	4.347011139	34.67179041	2.99566664	0.006127203
GH_D11G0520	1086.001679	703.197749	1468.805609	1.062641116	0.006161284
GH_A12G1258	372.8148053	237.1850503	508.4445603	1.100077394	0.0062737
GH_D05G1409	573.8185096	372.2240582	775.4129611	1.058793545	0.006275943
GH_D13G2202	13.60082038	2.317243352	24.8843974	3.424759985	0.006293825
GH_A08G1035	288.9203801	181.1138382	396.7269219	1.131249521	0.006438837
GH_D02G2198	1029.905859	679.5071731	1380.304545	1.022425927	0.00653104
GH_A10G2377	19.51009582	5.141928651	33.87826299	2.71997841	0.006580183
GH_A07G2362	202.3045432	124.3326567	280.2764297	1.172645145	0.006713865
GH_A09G1606	865.6624399	570.9342814	1160.390598	1.023213916	0.006758036
GH_A13G2220	21.17491243	5.863524035	36.48630082	2.637514986	0.006784196

GH_A13G1347	788.3790286	520.2482162	1056.509841	1.022034187	0.006788838
GH_D02G0593	113.2721299	64.26360531	162.2806545	1.3364172	0.006808583
GH_A10G1748	115.933604	66.2933731	165.5738348	1.32053814	0.006882516
GH_D05G2063	542.4884008	343.6164075	741.3603941	1.109376118	0.006888632
GH_D07G0434	208.5848727	109.9776379	307.1921074	1.481930944	0.007010318
GH_A07G0534	13.43891534	2.463887606	24.41394307	3.30869697	0.007063626
GH_A03G0107	227.8096321	137.5797845	318.0394797	1.208937364	0.007069283
GH_A02G2027	44.82371498	19.69947496	69.947955	1.8281247	0.007083271
GH_A05G0349	62.58693453	31.44396186	93.7299072	1.575726449	0.007109145
GH_D10G0227	179.47708	106.3848537	252.5693063	1.24738656	0.007114599
GH_D13G0367	36.39314641	14.92415695	57.86213588	1.954970141	0.007134681
GH_D12G0212	61.66441583	30.20329865	93.12553302	1.624470656	0.007156945
GH_A05G2640	143.689485	84.39138715	202.9875829	1.266223806	0.007200542
GH_D13G0189	244.0423506	128.9054471	359.179254	1.478390794	0.0073113
GH_A02G0099	72.36837221	38.1140293	106.6227151	1.484120787	0.007328801
GH_D02G0125	59.49395939	29.70748259	89.2804362	1.58751772	0.007546955
GH_D10G0244	78.77747726	42.38190537	115.1730492	1.442282808	0.008235112
GH_A08G2039	29.31593869	10.71797712	47.91390025	2.160411614	0.008235378
GH_A05G1166	616.756518	404.6073357	828.9057003	1.034685507	0.008333355
GH_A08G0989	219.3346367	136.1830972	302.4861763	1.151321562	0.008416146
GH_A11G2254	47.24429359	21.5825985	72.90598869	1.756168754	0.008433764
GH_A07G2432	10.78114397	1.302359459	20.25992847	3.95942948	0.008441058
GH_A02G1569	309.6167479	197.8361707	421.3973251	1.090874936	0.00849572
GH_D11G1129	194.1084546	118.7892397	269.4276695	1.181493861	0.008508897
GH_A10G1542	68.41298606	36.01093938	100.8150327	1.485203639	0.008574815
GH_D12G2002	149.5910078	90.34567214	208.8363434	1.208845405	0.008756968
GH_A13G0724	196.2783979	119.5667184	272.9900774	1.191032644	0.008803111
GH_A10G2271	534.3999656	349.0994489	719.7004822	1.043758546	0.008844912
GH_A11G1099	234.161891	146.0212088	322.3025732	1.142237778	0.008886679
GH_A07G2044	132.6978739	76.50972122	188.8860266	1.303801007	0.008929434
GH_D07G0193	42.55575393	19.34449021	65.76701764	1.76544154	0.008976885

GH_D13G1747	18.77749157	5.141928651	32.4130545	2.656193485	0.009003701
GH_D13G2148	783.2552441	518.055686	1048.454802	1.017085582	0.009061052
GH_A05G2772	187.9559797	116.7152145	259.1967449	1.151054963	0.009079844
GH_D07G0176	187.423549	114.0639921	260.7831058	1.19300698	0.009165152
GH_A07G1719	1043.239214	620.8696866	1465.608741	1.239137612	0.009206076
GH_A07G2146	187.7148692	113.6915685	261.7381698	1.202999065	0.009302146
GH_D11G3377	103.9072387	59.62330567	148.1911718	1.313511235	0.009308649
GH_A08G2322	47.93121664	22.96990597	72.89252731	1.666025971	0.009330421
GH_A05G1960	85.10916861	46.72310356	123.4952337	1.402247349	0.009385915
GH_D03G0878	387.5710206	251.786854	523.3551872	1.055587437	0.009415922
GH_D11G2333	41.51859081	18.91037039	64.12681122	1.761750048	0.009571465
GH_D12G1963	149.2014229	90.41318133	207.9896644	1.201906815	0.009604048
GH_D12G2773	253.2003783	158.9714813	347.4292754	1.127951349	0.009625271
GH_A07G0332	41.14193885	13.03522047	69.24865723	2.409371113	0.009650574
GH_D13G1765	15.99349656	1.375681586	30.61131153	4.475846369	0.009662933
GH_D01G2158	272.5217348	175.1769921	369.8664776	1.078191247	0.009671223
GH_D09G2370	168.8147456	103.8825216	233.7469696	1.169994722	0.009751312
GH_D05G0560	104.8962811	59.67918896	150.1133732	1.330752674	0.009764183
GH_D10G0242	193.6236035	121.4230234	265.8241836	1.13043036	0.009911123
GH_D01G0057	65.52477615	31.44396186	99.60559043	1.663443712	0.009972188
GH_A08G2599	105.4112907	59.67337602	151.1492054	1.34081409	0.010009201
GH_A13G1455	600.5306834	312.1666327	888.894734	1.509696244	0.010048105
GH_A13G1148	64.78594965	33.46210376	96.10979553	1.522155328	0.0101139
GH_A06G1711	6.130408526	0	12.26081705	Inf	0.010165161
GH_D05G0354	44.78738048	20.5677146	69.00704635	1.746362187	0.01017037
GH_A01G1593	577.938451	220.1962479	935.6806542	2.087226339	0.01023901
GH_A12G2220	6654.839548	3954.52428	9355.154815	1.242257376	0.010309921
GH_A11G0438	360.9493979	236.0118962	485.8868997	1.041760955	0.01031457
GH_A08G1541	421.1363575	270.0896417	572.1830734	1.083038508	0.010367793
GH_A10G2234	6.069832321	0	12.13966464	Inf	0.010415104
GH_A12G2614	13.69635939	2.898007426	24.49471135	3.079337094	0.01054086

GH_A09G2399	2127.335223	1402.936016	2851.73443	1.023390422	0.010658436
GH_A11G1527	78.94052545	43.09768781	114.7833631	1.413231175	0.010724875
GH_D04G0921	52.29089338	25.93542258	78.64636419	1.600456195	0.01073614
GH_D08G2611	13.52579999	2.678041044	24.37355894	3.186066946	0.010845834
GH_A08G0200	16.96592957	4.059535573	29.87232356	2.879422867	0.01091226
GH_A04G1284	243.5575221	149.4731617	337.6418824	1.175607404	0.010967983
GH_A12G2704	277.4073344	176.9228511	377.8918178	1.094852885	0.011064636
GH_A11G1534	115.8697916	68.53148138	163.2081018	1.251873898	0.011075665
GH_A09G1317	26.6911053	9.703093227	43.67911738	2.170427065	0.011137396
GH_A06G0856	84.32067362	47.23054551	121.4108017	1.362104678	0.011281611
GH_A13G0433	201.1696599	126.0284454	276.3108744	1.132542946	0.011281708
GH_A08G0953	28.38032981	11.01126563	45.74939399	2.054772332	0.011289845
GH_D11G0268	261.1995395	164.7268055	357.6722735	1.118562946	0.011420165
GH_D12G2400	516.9655036	335.8862733	698.044734	1.055346656	0.01145482
GH_D07G0073	31.50816661	13.2609998	49.75533342	1.907661631	0.011582804
GH_D02G0800	241.0078384	154.0669579	327.948719	1.089912754	0.011638143
GH_A02G0220	67.33275774	36.4450592	98.22045628	1.43030028	0.011665165
GH_D02G1891	411.2335804	269.5088776	552.9582832	1.036837847	0.011676909
GH_D11G1426	267.0139215	172.5373955	361.4904475	1.067048441	0.012006148
GH_D01G0787	45.01237929	21.51508931	68.50966927	1.670958791	0.012006583
GH_D06G0403	27.46961888	10.87043432	44.06880343	2.019348142	0.012025719
GH_A12G0052	60.40268431	31.51147105	89.29389758	1.502684479	0.012056873
GH_A07G1092	14.08976851	2.824685299	25.35485173	3.166099788	0.012124341
GH_A12G2940	542.1803243	235.9850776	848.375571	1.846007444	0.012248555
GH_D01G0611	16.12874305	4.200366884	28.05711921	2.739779635	0.012434719
GH_D06G2181	92.35783578	53.75978163	130.9558899	1.284481765	0.012621495
GH_A13G1935	30.99311232	12.67442278	49.31180185	1.960012925	0.012651676
GH_D05G1951	170.8034907	106.6222589	234.9847225	1.140058311	0.012843737
GH_D11G2399	93.16911843	53.67483362	132.6634032	1.305452722	0.012876569
GH_A13G2553	135.7145765	83.16234982	188.2668032	1.178776206	0.012912231
GH_A06G2016	27.98074754	0.868239639	55.09325543	5.987638614	0.013057521

GH_D09G1316	40.93717049	19.05120171	62.82313928	1.721414034	0.013091117
GH_A02G2053	109.7752872	64.97357481	154.5769995	1.250400679	0.013116804
GH_D01G1168	56.1697448	26.00293176	86.33655783	1.731297282	0.013209163
GH_D09G1022	277.2429875	159.4927953	394.9931798	1.308336488	0.013409097
GH_A07G0903	33.30217568	14.56335926	52.0409921	1.837305292	0.013480342
GH_D05G2614	13.57559588	1.809801405	25.34139035	3.80759238	0.013515528
GH_A06G2120	62.3930893	26.78041044	98.00576815	1.87168859	0.013596724
GH_D09G2481	187.1489647	119.1616633	255.1362661	1.098347817	0.013710633
GH_A07G0122	166.0345066	103.6451164	228.4238969	1.140061447	0.013857961
GH_A07G0768	133.3424006	82.00663462	184.6781665	1.171200776	0.01390427
GH_D08G0499	331.3097379	113.8265869	548.792889	2.269424216	0.013940438
GH_A09G1745	93.48975469	53.5898856	133.3896238	1.315613804	0.014049798
GH_A13G2031	202.8051008	130.1729289	275.4372726	1.081294347	0.014128086
GH_D12G2617	22.07189735	7.899104765	36.24468994	2.198008586	0.014246949
GH_A06G1849	92.44625249	53.74815574	131.1443492	1.286868488	0.014274884
GH_A10G0004	73.46105285	40.48715595	106.4349498	1.394435754	0.014296612
GH_A13G1708	177.6314548	112.1983074	243.0646022	1.115288896	0.014320249
GH_D09G1728	43.4546394	21.00764736	65.90163143	1.649399576	0.014429171
GH_A01G2008	28.31805535	11.51870758	45.11740312	1.969705179	0.014467948
GH_D11G3547	32.92402733	14.19674862	51.65130604	1.863244272	0.01455362
GH_D02G0213	169.6791321	106.3906666	232.9675975	1.130757718	0.014693089
