

Supplementary data

Stable 1. The summary of BSA-seq reads from four DNA bulks.

DNA Bulk	Reads number	Q30(%)	Mapped reads(%)	Read depth	Coverage (%)
Black	84,379,790	92.19	97.33	20	98.73
Purple	79,198,506	92.48	97.67	19	98.69
Brown	87,529,531	91.83	97.53	21	98.78
Yellow	90,455,131	92.47	97.63	22	98.77
Total	341,562,958				

Stable 2 The Summary of SNPs and InDels from BSA-seq analysis for four DNA bulks.

Variant	Y vs BR	B vs BR	Y vs B	B vs PR	Y vs Pr	Br vs Pr
SNP	274,090	285,998	279,722	309,659	297,817	301,259
InDel	88,548	91,755	91,451	97,861	94,475	94,422
Total	362,638	377,753	371,173	407,520	392,292	395,681

Stable 3. Correlation regions for seed coat color identified from BSA analysis

QTLs	Color comparison	Chromosome	Start	End	Size (Mb)	Gene Number
<i>qSC-1</i>	BR v.s. BL BR v.s. P	Chr06	37,630,000	47,320,000	9.69	505
<i>qSC-2</i>	Y v.s. BR Y v.s. P P v.s. BL	Chr09	45,600,000	47,900,000	2.3	277
<i>qSC-3</i>	Y v.s. BL Y v.s. P	Chr08	5,940,000	10,780,000	4.84	631
<i>qSC-4</i>	BR v.s. BL BR v.s. Y	Chr06	14,620,000	20,740,000	6.12	365

	BR v.s. P					
<i>qSC-5</i>	P v.s. Y	Chr04	41,620,000	44,050,000	2.43	154
	P v.s. BL					
<i>qSC-6</i>	Y v.s. BL	Chr07	0	2,140,000	2.14	438
<i>qSC-7</i>	BL v.s. P	Chr15	8,460,000	12,090,000	3.63	596
<i>qSC-8</i>	BL v.s. P	Chr17	0	460,000	0.46	88
<i>qSC-9</i>	BL v.s. P	Chr17	490,000	500,000	0.01	4
<i>qSC-10</i>	BL v.s. P	Chr17	40,990,000	41,630,000	0.64	109
<i>qSC-11</i>	Y v.s. BR	Chr08	39,930,000	40,380,000	0.45	47
<i>qSC-12</i>	BR v.s. P	Chr03	38,360,000	38,580,000	0.22	30
<i>qSC-13</i>	Y v.s. P	Chr12	11,090,000	12,300,000	1.21	77
<i>qSC-14</i>	BL v.s. P	Chr15	46,500,000	47,110,000	0.61	40
<i>qSC-15</i>	BL v.s. P	Chr04	19,500,000	19,620,000	0.12	1
<i>qSC-16</i>	BL v.s. P	Chr04	19,650,000	22,140,000	2.49	50

Y:yellow BR:brown P:purle BL:black

Stable 4. The summary of RNA-Seq sequencing data.

Sample name	Raw reads	Clean reads	Clean bases(bp)	Error(%)	Q20(%)	Q30(%)	GC(%)
BLc1	61950450	61900420	9234414809	0.0277	96.87	91.81	46.24
BLc2	53354750	53323798	7954800609	0.0289	96.25	90.92	47.29
BLc3	51972488	51931980	7746671311	0.0288	96.31	91.05	46.52
BLnc1	55892806	55822798	8333171823	0.0277	96.82	91.84	47.54
BLnc2	51615146	51559872	7696219833	0.0286	96.39	91.13	47.28
BLnc3	50193040	50114964	7480762036	0.0277	96.76	91.85	47.33
BRc1	60008536	59895648	8935205078	0.0278	96.75	91.78	46.84
BRc2	51113736	51038292	7608582799	0.0285	96.35	91.3	47.37
BRc3	52355576	52318256	7799767020	0.0287	96.26	91.15	46.79
BRnc1	48710784	48645438	7257033450	0.0282	96.54	91.49	46.84
BRnc2	50106836	50021960	7462796504	0.0285	96.47	91.26	46.97
BRnc3	51431070	51320842	7659418832	0.0284	96.52	91.32	46.58
Pc1	52316582	52275720	7796614890	0.028	96.64	91.61	46.23
Pc2	59639070	59574594	8875956944	0.0284	96.47	91.33	46.33
Pc3	56303654	56169104	8380302502	0.0277	96.82	91.84	46.28
Pnc1	55418672	55389628	8266705373	0.0276	96.84	91.89	46.22
Pnc2	54798190	54759874	8163303144	0.0282	96.55	91.46	46.45
Pnc3	60746978	60684806	9034341625	0.028	96.66	91.58	46.49
Yc1	46497896	46447842	6936532814	0.0322	95.08	88.46	46.25
Yc2	53872564	53840810	8030338525	0.0283	96.54	91.42	46.43
Yc3	55668376	55615794	8287241919	0.028	96.69	91.66	46.02
Ync1	52892242	52854308	7879566380	0.0284	96.48	91.29	46.33
Ync2	57921924	57868696	8628041984	0.0285	96.44	91.2	46.57

Ync3	60501272	60441140	9011678392	0.0278	96.74	91.8	46.87
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Stable 5. genome-wide association analysis of 763 natural germplasms.

Trait	Marker	Chr	Pos	F	p	MarkerR2
Red	Gm1_34475129	1	34475129	16.80508	7.84E-08	0.05243
Red	Gm06_18744689	6	18744689	17.77624	3.32E-08	0.06508
Red	Gm08_6557880	8	6557880	17.31848	4.97E-08	0.05842
Red	Gm08_7820505	8	7820505	17.00947	6.86E-08	0.06447
Red	Gm08_8000375	8	8000375	20.76859	2.04E-09	0.07472
Red	Gm08_8000994	8	8000994	27.74111	3.25E-12	0.09956
Red	Gm08_8001123	8	8001123	23.76539	1.29E-10	0.08948
Red	Gm08_8001396	8	8001396	17.06936	6.35E-08	0.06062
Red	Gm08_8002535	8	8002535	19.02952	1.04E-08	0.06438
Red	Gm08_8008583	8	8008583	22.83903	2.97E-10	0.08313
Red	Gm08_8019129	8	8019129	24.17648	8.34E-11	0.0793
Red	Gm08_8031082	8	8031082	27.29464	5.01E-12	0.10369
Red	Gm08_8047879	8	8047879	18.11181	2.44E-08	0.06332
Red	Gm08_8052282	8	8052282	23.93957	1.09E-10	0.08514
Red	Gm08_8053376	8	8053376	68.66397	9.09E-16	0.12982
Red	Gm08_8053477	8	8053477	30.85047	1.96E-13	0.11448
Red	Gm08_8055772	8	8055772	32.0196	7.22E-14	0.11798
Red	Gm08_8056510	8	8056510	24.07828	9.34E-11	0.08647
Red	Gm08_8059083	8	8059083	17.47034	4.37E-08	0.05739
Red	Gm08_8059184	8	8059184	27.65584	3.68E-12	0.09643
Red	Gm08_8062435	8	8062435	27.78147	3.26E-12	0.09844
Red	Gm08_8065674	8	8065674	31.10551	1.52E-13	0.10947
Red	Gm08_8066335	8	8066335	29.71737	5.33E-13	0.10751
Red	Gm08_8066589	8	8066589	27.3469	4.82E-12	0.09561
Red	Gm08_8069365	8	8069365	24.00934	1.00E-10	0.084
Red	Gm08_8081879	8	8081879	29.56765	6.22E-13	0.10242
Red	Gm08_8083031	8	8083031	23.70346	1.33E-10	0.08396
Red	Gm08_8092329	8	8092329	34.40626	8.39E-15	0.11927
Red	Gm08_8095794	8	8095794	28.63285	1.48E-12	0.10288
Red	Gm08_8096014	8	8096014	22.13704	5.68E-10	0.07901
Red	Gm08_8099353	8	8099353	25.99051	1.59E-11	0.09042
Red	Gm08_8100194	8	8100194	18.9329	1.15E-08	0.07139
Red	Gm08_8101680	8	8101680	21.27687	1.26E-09	0.07865
Red	Gm08_8110318	8	8110318	24.94466	4.26E-11	0.08859
Red	Gm08_8157061	8	8157061	40.82304	3.02E-17	0.14262
Red	Gm08_8172987	8	8172987	27.63561	3.79E-12	0.09757
Red	Gm08_8176120	8	8176120	26.5377	9.96E-12	0.09327
Red	Gm08_8188522	8	8188522	27.46403	4.24E-12	0.10143
Red	Gm08_8188523	8	8188523	26.81868	7.71E-12	0.09956
Red	Gm08_8190124	8	8190124	26.32268	1.21E-11	0.09443
Red	Gm08_8190497	8	8190497	26.66898	8.88E-12	0.09745
Red	Gm08_8190546	8	8190546	32.24065	5.70E-14	0.1203
Red	Gm08_8191127	8	8191127	52.86499	8.34E-22	0.17944
Red	Gm08_8191455	8	8191455	21.90771	7.10E-10	0.08124
Red	Gm08_8191743	8	8191743	27.97824	2.65E-12	0.10047
Red	Gm08_8192436	8	8192436	23.70823	1.37E-10	0.08765
Red	Gm08_8193398	8	8193398	24.52131	6.22E-11	0.09005
Red	Gm08_8193403	8	8193403	24.88731	4.52E-11	0.09226
Red	Gm08_8193696	8	8193696	29.4178	6.89E-13	0.10272
Red	Gm08_8194523	8	8194523	25.00197	4.06E-11	0.08846

Red	Gm08_8195742	8	8195742	52.62499	1.27E-21	0.18289
Red	Gm08_8196111	8	8196111	30.63364	2.41E-13	0.10652
Red	Gm08_8196565	8	8196565	28.22919	2.02E-12	0.09551
Red	Gm08_8196909	8	8196909	25.954	1.73E-11	0.09292
Red	Gm08_8197293	8	8197293	51.69292	2.88E-21	0.18431
Red	Gm08_8197709	8	8197709	29.54438	6.13E-13	0.10438
Red	Gm08_8198228	8	8198228	32.17117	6.16E-14	0.1138
Red	Gm08_8198246	8	8198246	31.45792	1.17E-13	0.10963
Red	Gm08_8199605	8	8199605	32.22788	5.59E-14	0.11461
Red	Gm08_8199626	8	8199626	53.81603	4.10E-22	0.18603
Red	Gm08_8199882	8	8199882	61.62449	6.23E-25	0.21206
Red	Gm08_8200063	8	8200063	32.31768	5.05E-14	0.10878
Red	Gm08_8200230	8	8200230	55.8449	7.06E-23	0.18796
Red	Gm08_8200825	8	8200825	57.93416	1.07E-23	0.19606
Red	Gm08_8201008	8	8201008	47.46977	9.20E-20	0.17043
Red	Gm08_8201272	8	8201272	29.45367	6.38E-13	0.10163
Red	Gm08_8201476	8	8201476	61.46961	6.24E-25	0.2026
Red	Gm08_8201501	8	8201501	61.46061	6.81E-25	0.21051
Red	Gm08_8201849	8	8201849	61.91372	4.26E-25	0.20949
Red	Gm08_8202357	8	8202357	45.83502	3.32E-19	0.15313
Red	Gm08_8202427	8	8202427	31.10979	1.47E-13	0.10717
Red	Gm08_8202907	8	8202907	27.1213	5.76E-12	0.09763
Red	Gm08_8203074	8	8203074	51.56699	2.71E-21	0.18462
Red	Gm08_8203593	8	8203593	24.51244	6.16E-11	0.08501
Red	Gm08_8204027	8	8204027	28.5139	1.70E-12	0.10867
Red	Gm08_8204715	8	8204715	24.70103	5.10E-11	0.0887
Red	Gm08_8204961	8	8204961	49.66194	1.52E-20	0.18172
Red	Gm08_8205513	8	8205513	32.29177	5.54E-14	0.10986
Red	Gm08_8205579	8	8205579	30.66544	2.27E-13	0.10336
Red	Gm08_8205602	8	8205602	29.3502	7.72E-13	0.1063
Red	Gm08_8205748	8	8205748	31.39028	1.24E-13	0.10882
Red	Gm08_8209460	8	8209460	30.47434	2.76E-13	0.10442
Red	Gm08_8210287	8	8210287	18.20169	2.21E-08	0.06655
Red	Gm08_8210825	8	8210825	22.64	3.47E-10	0.07724
Red	Gm08_8214801	8	8214801	25.47214	2.65E-11	0.09376
Red	Gm08_8216666	8	8216666	48.28817	4.84E-20	0.18444
Red	Gm08_8217631	8	8217631	20.19838	3.30E-09	0.06964
Red	Gm08_8230569	8	8230569	23.07779	2.29E-10	0.07528
Red	Gm08_8232667	8	8232667	20.59202	2.35E-09	0.07101
Red	Gm08_8232993	8	8232993	31.45168	1.04E-13	0.10457
Red	Gm08_8233645	8	8233645	31.88036	7.59E-14	0.11175
Red	Gm08_8236097	8	8236097	26.04871	1.60E-11	0.09763
Red	Gm08_8236244	8	8236244	25.6439	2.16E-11	0.09122
Red	Gm08_8236763	8	8236763	29.96916	4.11E-13	0.10042
Red	Gm08_8236862	8	8236862	24.97572	4.00E-11	0.08696
Red	Gm08_8236894	8	8236894	28.20118	2.15E-12	0.09888

Red	Gm08_8237654	8	8237654	34.68794	6.08E-15	0.11943
Red	Gm08_8238668	8	8238668	26.39443	1.12E-11	0.09176
Red	Gm08_8238813	8	8238813	28.92961	1.17E-12	0.10945
Red	Gm08_8241224	8	8241224	53.06297	8.60E-22	0.20103
Red	Gm08_8241247	8	8241247	23.67727	1.40E-10	0.09341
Red	Gm08_8242850	8	8242850	58.16603	1.23E-23	0.19866
Red	Gm08_8243491	8	8243491	51.90848	2.37E-21	0.18943
Red	Gm08_8244136	8	8244136	59.99083	2.14E-24	0.20867
Red	Gm08_8245354	8	8245354	20.09291	3.76E-09	0.07152
Red	Gm08_8245529	8	8245529	62.42701	2.84E-25	0.21591
Red	Gm08_8259822	8	8259822	59.1214	4.05E-24	0.19375
Red	Gm08_8267574	8	8267574	50.97737	5.07E-21	0.18184
Red	Gm08_8267935	8	8267935	17.46148	4.44E-08	0.06414
Red	Gm08_8270790	8	8270790	23.50959	1.61E-10	0.08324
Red	Gm08_8270797	8	8270797	22.75639	3.24E-10	0.08142
Red	Gm08_8285621	8	8285621	17.88282	3.01E-08	0.06503
Red	Gm08_8285888	8	8285888	55.96047	7.03E-23	0.19251
Red	Gm08_8288351	8	8288351	23.23744	1.99E-10	0.07767
Red	Gm08_8303757	8	8303757	16.68536	9.16E-08	0.05898
Red	Gm08_8303996	8	8303996	21.48485	1.05E-09	0.07858
Red	Gm08_8306163	8	8306163	59.81726	3.30E-24	0.22319
Red	Gm08_8306458	8	8306458	31.97674	7.00E-14	0.10655
Red	Gm08_8311989	8	8311989	55.50662	1.00E-22	0.19631
Red	Gm08_8312343	8	8312343	47.41533	8.70E-20	0.1594
Red	Gm08_8313215	8	8313215	55.48046	8.77E-23	0.18326
Red	Gm08_8313241	8	8313241	52.96846	8.48E-22	0.18263
Red	Gm08_8313428	8	8313428	45.1998	7.12E-19	0.16056
Red	Gm08_8313640	8	8313640	42.99348	4.53E-18	0.15014
Red	Gm08_8314161	8	8314161	24.90493	4.25E-11	0.08596
Red	Gm08_8314707	8	8314707	48.82654	3.02E-20	0.17681
Red	Gm08_8314788	8	8314788	50.49328	6.55E-21	0.17795
Red	Gm08_8314827	8	8314827	52.50213	1.15E-21	0.17768
Red	Gm08_8314987	8	8314987	49.70659	1.42E-20	0.17491
Red	Gm08_8316860	8	8316860	48.93279	2.78E-20	0.17553
Red	Gm08_8317597	8	8317597	22.63658	3.49E-10	0.07845
Red	Gm08_8318754	8	8318754	16.80778	8.28E-08	0.05779
Red	Gm08_8318759	8	8318759	31.0816	1.69E-13	0.10779
Red	Gm08_8318820	8	8318820	17.64923	3.79E-08	0.05993
Red	Gm08_8318837	8	8318837	60.16813	2.43E-24	0.2041
Red	Gm08_8319060	8	8319060	53.153	8.47E-22	0.18571
Red	Gm08_8319085	8	8319085	54.11713	3.54E-22	0.19026
Red	Gm08_8319087	8	8319087	52.67351	1.26E-21	0.18946
Red	Gm08_8319115	8	8319115	50.79905	5.65E-21	0.17447
Red	Gm08_8319732	8	8319732	46.50494	2.24E-19	0.17381
Red	Gm08_8319744	8	8319744	47.93592	6.45E-20	0.17852
Red	Gm08_8319787	8	8319787	49.201	2.17E-20	0.18261

Red	Gm08_8319795	8	8319795	50.02423	1.01E-20	0.18182
Red	Gm08_8319817	8	8319817	45.92804	3.60E-19	0.16585
Red	Gm08_8319867	8	8319867	42.179	9.34E-18	0.16543
Red	Gm08_8322185	8	8322185	51.89186	2.35E-21	0.1825
Red	Gm08_8322357	8	8322357	47.15643	1.17E-19	0.15716
Red	Gm08_8323966	8	8323966	23.23995	1.99E-10	0.07827
Red	Gm08_8323971	8	8323971	50.8367	5.09E-21	0.17674
Red	Gm08_8323983	8	8323983	49.55355	1.53E-20	0.17036
Red	Gm08_8324392	8	8324392	51.05389	3.73E-21	0.16912
Red	Gm08_8328261	8	8328261	64.59288	5.79E-26	0.23143
Red	Gm08_8329538	8	8329538	19.5443	6.30E-09	0.07085
Red	Gm08_8346238	8	8346238	17.89511	2.96E-08	0.06015
Red	Gm08_8354601	8	8354601	28.08006	2.43E-12	0.09792
Red	Gm08_8359499	8	8359499	22.86239	2.70E-10	0.07411
Red	Gm08_8360663	8	8360663	37.35318	5.45E-16	0.13091
Red	Gm08_8364457	8	8364457	24.56862	5.69E-11	0.08656
Red	Gm08_8368519	8	8368519	29.34683	7.49E-13	0.09839
Red	Gm08_8368552	8	8368552	39.11134	1.19E-16	0.13417
Red	Gm08_8371230	8	8371230	57.87151	1.36E-23	0.19275
Red	Gm08_8373581	8	8373581	78.24729	5.91E-31	0.26078
Red	Gm08_8374519	8	8374519	71.70323	2.05E-28	0.25637
Red	Gm08_8374643	8	8374643	58.379	1.07E-23	0.20865
Red	Gm08_8374655	8	8374655	42.77404	5.39E-18	0.14766
Red	Gm08_8374738	8	8374738	49.87169	1.31E-20	0.18916
Red	Gm08_8374743	8	8374743	22.60538	3.71E-10	0.08329
Red	Gm08_8375080	8	8375080	30.05171	3.95E-13	0.10449
Red	Gm08_8375124	8	8375124	35.29099	3.75E-15	0.12574
Red	Gm08_8375522	8	8375522	28.4785	1.64E-12	0.105
Red	Gm08_8375603	8	8375603	37.43328	5.35E-16	0.12781
Red	Gm08_8375666	8	8375666	53.30363	4.80E-22	0.17586
Red	Gm08_8375961	8	8375961	21.99398	6.14E-10	0.07033
Red	Gm08_8376085	8	8376085	58.86653	5.90E-24	0.1941
Red	Gm08_8377404	8	8377404	29.84732	4.81E-13	0.10501
Red	Gm08_8377783	8	8377783	63.62372	1.44E-25	0.23497
Red	Gm08_8378225	8	8378225	37.21802	7.35E-16	0.14254
Red	Gm08_8379915	8	8379915	39.26149	1.04E-16	0.12951
Red	Gm08_8380062	8	8380062	34.01747	9.91E-15	0.10834
Red	Gm08_8380544	8	8380544	28.96391	9.80E-13	0.09697
Red	Gm08_8380771	8	8380771	27.62115	3.44E-12	0.10048
Red	Gm08_8380778	8	8380778	24.78049	4.67E-11	0.08945
Red	Gm08_8380797	8	8380797	26.36452	1.09E-11	0.09151
Red	Gm08_8380961	8	8380961	30.48848	2.54E-13	0.10498
Red	Gm08_8380988	8	8380988	26.33246	1.14E-11	0.09222
Red	Gm08_8381058	8	8381058	72.36854	8.35E-29	0.23947
Red	Gm08_8381111	8	8381111	36.23886	1.41E-15	0.12383
Red	Gm08_8381483	8	8381483	29.39622	6.50E-13	0.09175

Red	Gm08_8381494	8	8381494	29.10394	8.43E-13	0.09031
Red	Gm08_8381764	8	8381764	68.23954	1.94E-27	0.22005
Red	Gm08_8390797	8	8390797	91.72597	8.75E-36	0.26776
Red	Gm08_8391476	8	8391476	23.25311	1.78E-10	0.06908
Red	Gm08_8391589	8	8391589	24.39716	6.21E-11	0.07502
Red	Gm08_8391636	8	8391636	32.22553	5.19E-14	0.09997
Red	Gm08_8391703	8	8391703	26.98576	5.48E-12	0.08301
Red	Gm08_8392065	8	8392065	23.68569	1.15E-10	0.06925
Red	Gm08_8392089	8	8392089	22.60784	3.14E-10	0.06488
Red	Gm08_8392458	8	8392458	21.69011	7.45E-10	0.06408
Red	Gm08_8392597	8	8392597	32.49555	1.94E-08	0.05782
Red	Gm08_8392883	8	8392883	21.72512	7.41E-10	0.06538
Red	Gm08_8393576	8	8393576	59.54375	2.08E-24	0.18683
Red	Gm08_8393771	8	8393771	20.65392	2.19E-09	0.06942
Red	Gm08_8393781	8	8393781	18.90551	1.16E-08	0.06806
Red	Gm08_8394768	8	8394768	22.19838	5.06E-10	0.07251
Red	Gm08_8394915	8	8394915	76.61733	2.22E-30	0.25503
Red	Gm08_8395520	8	8395520	20.60054	2.24E-09	0.06975
Red	Gm08_8398559	8	8398559	84.25933	6.11E-33	0.28245
Red	Gm08_8399515	8	8399515	80.22481	1.13E-31	0.27256
Red	Gm08_8399983	8	8399983	18.40407	1.77E-08	0.06071
Red	Gm08_8400595	8	8400595	82.65275	1.92E-32	0.26989
Red	Gm08_8402470	8	8402470	37.15776	2.01E-09	0.06605
Red	Gm08_8402471	8	8402471	37.37248	1.82E-09	0.06561
Red	Gm08_8420033	8	8420033	75.0289	1.22E-29	0.27425
Red	Gm08_8421496	8	8421496	19.38522	7.46E-09	0.07283
Red	Gm08_8431993	8	8431993	18.52638	1.63E-08	0.06576
Red	Gm08_8435735	8	8435735	17.3164	5.04E-08	0.06053
Red	Gm08_8438870	8	8438870	69.71992	1.12E-27	0.25484
Red	Gm08_8438876	8	8438876	30.20937	3.67E-13	0.10815
Red	Gm08_8438936	8	8438936	31.07638	1.64E-13	0.10641
Red	Gm08_8439073	8	8439073	70.45897	6.39E-28	0.26374
Red	Gm08_8457731	8	8457731	29.11581	9.41E-13	0.0969
Red	Gm08_8458705	8	8458705	18.4051	1.90E-08	0.07268
Red	Gm08_8473066	8	8473066	17.48759	4.32E-08	0.05924
Red	Gm08_8473075	8	8473075	17.80463	3.20E-08	0.06007
Red	Gm08_8473145	8	8473145	19.6924	5.34E-09	0.0637
Red	Gm08_8473227	8	8473227	65.40239	3.27E-26	0.22692
Red	Gm08_8473662	8	8473662	22.59129	3.74E-10	0.08229
Red	Gm08_8508773	8	8508773	18.10932	2.38E-08	0.06051
Red	Gm08_8508776	8	8508776	18.48022	1.68E-08	0.06135
Red	Gm08_8509645	8	8509645	23.19698	2.09E-10	0.08231
Red	Gm08_8509775	8	8509775	21.42868	1.07E-09	0.07313
Red	Gm08_8513329	8	8513329	56.0408	5.25E-23	0.18073
Red	Gm08_8513330	8	8513330	57.15572	2.09E-23	0.1857
Red	Gm08_8513350	8	8513350	40.76008	2.43E-17	0.13034

Red	Gm08_8513390	8	8513390	56.89542	1.87E-23	0.17848
Red	Gm08_8513442	8	8513442	56.66515	1.79E-23	0.17002
Red	Gm08_8526593	8	8526593	45.13128	6.66E-19	0.16306
Red	Gm08_8530246	8	8530246	23.32731	1.87E-10	0.08125
Red	Gm08_8530715	8	8530715	31.86676	7.40E-14	0.10814
Red	Gm08_8530811	8	8530811	18.20852	2.17E-08	0.06088
Red	Gm08_8530878	8	8530878	55.29771	1.18E-22	0.18845
Red	Gm08_8531722	8	8531722	22.61913	3.61E-10	0.08148
Red	Gm08_8531743	8	8531743	19.88366	4.53E-09	0.07072
Red	Gm08_8531901	8	8531901	28.02044	2.44E-12	0.0972
Red	Gm08_8531923	8	8531923	28.3141	1.91E-12	0.09932
Red	Gm08_8532182	8	8532182	29.57685	6.37E-13	0.10293
Red	Gm08_8532274	8	8532274	32.97845	3.08E-14	0.11801
Red	Gm08_8532878	8	8532878	21.55934	9.56E-10	0.07272
Red	Gm08_8535064	8	8535064	32.05511	6.21E-14	0.10708
Red	Gm08_8535153	8	8535153	21.69251	8.25E-10	0.07189
Red	Gm08_8535241	8	8535241	23.19802	2.07E-10	0.07784
Red	Gm08_8535483	8	8535483	23.66858	1.33E-10	0.08008
Red	Gm08_8535484	8	8535484	21.859	7.14E-10	0.07417
Red	Gm08_8536695	8	8536695	20.84711	1.86E-09	0.07264
Red	Gm08_8537176	8	8537176	18.1911	2.28E-08	0.06714
Red	Gm08_8537481	8	8537481	20.58763	2.30E-09	0.07004
Red	Gm08_8537510	8	8537510	16.82254	7.93E-08	0.0582
Red	Gm08_8538286	8	8538286	39.29466	1.13E-16	0.14738
Red	Gm08_8538449	8	8538449	17.16699	5.83E-08	0.06082
Red	Gm08_8539128	8	8539128	52.89406	9.09E-22	0.18755
Red	Gm08_8539136	8	8539136	17.55859	3.99E-08	0.06083
Red	Gm08_8539249	8	8539249	19.92266	4.41E-09	0.06904
Red	Gm08_8539257	8	8539257	22.37777	4.53E-10	0.0793
Red	Gm08_8539508	8	8539508	20.1729	3.49E-09	0.06895
Red	Gm08_8539700	8	8539700	19.90225	4.52E-09	0.07867
Red	Gm08_8540424	8	8540424	22.68144	3.39E-10	0.07644
Red	Gm08_8540829	8	8540829	17.39059	4.72E-08	0.06014
Red	Gm08_8541020	8	8541020	21.74037	8.01E-10	0.07544
Red	Gm08_8541531	8	8541531	22.31092	4.90E-10	0.07955
Red	Gm08_8541533	8	8541533	21.78272	8.09E-10	0.07986
Red	Gm08_8541663	8	8541663	20.75134	2.01E-09	0.07005
Red	Gm08_8541967	8	8541967	26.40429	1.11E-11	0.08942
Red	Gm08_8542721	8	8542721	21.52804	1.01E-09	0.07422
Red	Gm08_8542855	8	8542855	17.71489	3.48E-08	0.06536
Red	Gm08_8542910	8	8542910	16.73886	8.74E-08	0.05892
Red	Gm08_8543284	8	8543284	19.67817	5.49E-09	0.06603
Red	Gm08_8543287	8	8543287	21.24484	1.27E-09	0.07081
Red	Gm08_8543674	8	8543674	18.10961	2.43E-08	0.06622
Red	Gm08_8543708	8	8543708	23.79268	1.26E-10	0.08555
Red	Gm08_8543723	8	8543723	21.43594	1.09E-09	0.07378

Red	Gm08_8544785	8	8544785	29.9458	6.95E-08	0.06007
Red	Gm08_8544856	8	8544856	19.6247	5.79E-09	0.06872
Red	Gm08_8544857	8	8544857	20.56307	2.48E-09	0.07454
Red	Gm08_8544869	8	8544869	19.50544	6.58E-09	0.06979
Red	Gm08_8544870	8	8544870	20.16273	3.58E-09	0.07153
Red	Gm08_8544931	8	8544931	39.47251	1.04E-16	0.15271
Red	Gm08_8546329	8	8546329	18.60837	1.53E-08	0.06721
Red	Gm08_8546496	8	8546496	20.31098	3.01E-09	0.07014
Red	Gm08_8546538	8	8546538	18.01508	2.63E-08	0.06507
Red	Gm08_8547836	8	8547836	20.02689	4.03E-09	0.07056
Red	Gm08_8547881	8	8547881	18.30331	2.01E-08	0.06356
Red	Gm08_8548478	8	8548478	16.78373	8.39E-08	0.06212
Red	Gm08_8550166	8	8550166	21.36041	1.18E-09	0.07296
Red	Gm08_8550222	8	8550222	18.14371	2.31E-08	0.06142
Red	Gm08_8550815	8	8550815	21.67715	8.63E-10	0.07717
Red	Gm08_8550903	8	8550903	17.16001	5.89E-08	0.06067
Red	Gm08_8551462	8	8551462	20.28285	3.17E-09	0.07243
Red	Gm08_8551560	8	8551560	18.3761	1.89E-08	0.06499
Red	Gm08_8551807	8	8551807	16.8516	7.98E-08	0.05777
Red	Gm08_8552667	8	8552667	24.84295	4.66E-11	0.08586
Red	Gm08_8552680	8	8552680	28.41295	1.82E-12	0.09856
Red	Gm08_8553022	8	8553022	17.40655	4.68E-08	0.06225
Red	Gm08_8557526	8	8557526	18.9285	1.13E-08	0.06762
Red	Gm08_8557749	8	8557749	20.96147	1.66E-09	0.07312
Red	Gm08_8562604	8	8562604	54.92426	1.78E-22	0.1982
Red	Gm08_8564702	8	8564702	41.7603	1.29E-17	0.14555
Red	Gm08_8567208	8	8567208	55.97785	6.66E-23	0.18645
Red	Gm08_8568732	8	8568732	22.31005	4.70E-10	0.07599
Red	Gm08_8573698	8	8573698	36.09279	1.81E-15	0.12454
Red	Gm08_8575427	8	8575427	16.9232	7.52E-08	0.05998
Red	Gm08_8581777	8	8581777	19.55433	6.20E-09	0.06631
Red	Gm08_8582311	8	8582311	61.01198	1.17E-24	0.22138
Red	Gm08_8593015	8	8593015	30.84021	1.94E-13	0.10586
Red	Gm08_8596080	8	8596080	58.13006	1.20E-23	0.20636
Red	Gm08_8598389	8	8598389	21.7491	7.98E-10	0.07356
Red	Gm08_8598614	8	8598614	41.08332	2.24E-17	0.14487
Red	Gm08_8599062	8	8599062	37.12614	7.51E-16	0.13271
Red	Gm08_8599104	8	8599104	18.81861	1.27E-08	0.06914
Red	Gm08_8599749	8	8599749	32.51802	4.38E-14	0.11537
Red	Gm08_8600110	8	8600110	33.00509	2.78E-14	0.11566
Red	Gm08_8600112	8	8600112	33.87166	1.28E-14	0.11811
Red	Gm08_8600577	8	8600577	30.66587	2.34E-13	0.10873
Red	Gm08_8600731	8	8600731	28.51102	1.64E-12	0.10264
Red	Gm08_8606073	8	8606073	37.40485	6.16E-16	0.13426
Red	Gm08_8611170	8	8611170	39.05472	1.36E-16	0.14109
Red	Gm08_8618655	8	8618655	28.29039	1.94E-12	0.10057

Red	Gm08_8625067	8	8625067	17.0506	6.45E-08	0.05981
Red	Gm08_8625732	8	8625732	25.7979	1.96E-11	0.09369
Red	Gm08_8630156	8	8630156	16.6085	9.98E-08	0.06265
Red	Gm08_8630161	8	8630161	23.2071	2.13E-10	0.08472
Red	Gm08_8635529	8	8635529	18.38006	1.90E-08	0.06489
Red	Gm08_8642278	8	8642278	27.88316	3.01E-12	0.1012
Red	Gm08_8655544	8	8655544	19.98047	4.31E-09	0.07328
Red	Gm08_8661207	8	8661207	48.77933	3.59E-20	0.18125
Red	Gm08_8661940	8	8661940	46.02586	3.41E-19	0.1671
Red	Gm08_8661946	8	8661946	44.83463	9.52E-19	0.16346
Red	Gm08_8665831	8	8665831	18.94256	1.11E-08	0.06849
Red	Gm08_8669224	8	8669224	28.70952	1.37E-12	0.09889
Red	Gm08_8670168	8	8670168	26.29899	1.17E-11	0.08751
Red	Gm08_8672494	8	8672494	33.36611	2.22E-14	0.12459
Red	Gm08_8675132	8	8675132	33.99556	1.30E-14	0.12565
Red	Gm08_8679805	8	8679805	28.21553	2.20E-12	0.10628
Red	Gm08_8683339	8	8683339	20.9196	1.72E-09	0.07004
Red	Gm08_8694446	8	8694446	20.496	2.51E-09	0.06922
Red	Gm08_8697540	8	8697540	19.93469	4.39E-09	0.0701
Red	Gm08_8704007	8	8704007	21.69831	8.58E-10	0.07447
Red	Gm08_8711592	8	8711592	20.74777	2.07E-09	0.071
Red	Gm08_8714742	8	8714742	26.4097	1.10E-11	0.09226
Red	Gm08_8719983	8	8719983	18.15041	2.34E-08	0.06394
Red	Gm08_8724028	8	8724028	20.93243	1.75E-09	0.07498
Red	Gm08_8728517	8	8728517	19.28867	8.10E-09	0.06712
Red	Gm08_8730779	8	8730779	22.99575	2.53E-10	0.08182
Red	Gm08_8731711	8	8731711	17.36074	4.92E-08	0.05873
Red	Gm08_8732105	8	8732105	20.81827	1.94E-09	0.0725
Red	Gm08_8733115	8	8733115	20.37602	2.95E-09	0.07525
Red	Gm08_8733180	8	8733180	26.25939	1.34E-11	0.09311
Red	Gm08_8733296	8	8733296	21.03486	1.57E-09	0.07837
Red	Gm08_8733318	8	8733318	25.50432	2.53E-11	0.09308
Red	Gm08_8733852	8	8733852	19.80057	4.97E-09	0.07473
Red	Gm08_8734345	8	8734345	25.51417	2.53E-11	0.08695
Red	Gm08_8737772	8	8737772	17.9467	2.82E-08	0.06349
Red	Gm08_8741243	8	8741243	28.11897	2.44E-12	0.09999
Red	Gm08_8741992	8	8741992	24.09553	9.32E-11	0.09279
Red	Gm08_8742487	8	8742487	19.62068	5.91E-09	0.068
Red	Gm08_8742890	8	8742890	32.93985	3.13E-14	0.11454
Red	Gm08_8744275	8	8744275	28.64791	1.39E-12	0.09312
Red	Gm08_8748456	8	8748456	16.95202	7.16E-08	0.05976
Red	Gm08_8748463	8	8748463	17.3954	4.74E-08	0.06075
Red	Gm08_8752677	8	8752677	22.55836	3.77E-10	0.07684
Red	Gm08_8752816	8	8752816	32.09151	6.90E-14	0.12236
Red	Gm08_8753400	8	8753400	26.18319	1.39E-11	0.0932
Red	Gm08_8753446	8	8753446	25.13138	3.66E-11	0.09029

Red	Gm08_8753556	8	8753556	34.33736	8.31E-15	0.11713
Red	Gm08_8753670	8	8753670	25.38613	2.70E-11	0.08321
Red	Gm08_8754364	8	8754364	25.40131	2.80E-11	0.09103
Red	Gm08_8754420	8	8754420	30.71282	2.27E-13	0.11483
Red	Gm08_8754534	8	8754534	33.07153	2.60E-14	0.11867
Red	Gm08_8756149	8	8756149	30.54546	2.57E-13	0.10829
Red	Gm08_8756368	8	8756368	37.29947	5.71E-16	0.12409
Red	Gm08_8757269	8	8757269	27.36875	4.49E-12	0.09371
Red	Gm08_8758861	8	8758861	23.24109	2.06E-10	0.08228
Red	Gm08_8759543	8	8759543	25.11421	3.55E-11	0.08966
Red	Gm08_8763923	8	8763923	19.27037	8.27E-09	0.06961
Red	Gm08_8764778	8	8764778	24.57934	5.85E-11	0.084
Red	Gm08_8769254	8	8769254	21.36577	1.14E-09	0.0714
Red	Gm08_8797990	8	8797990	20.59519	2.35E-09	0.07936
Red	Gm08_8800773	8	8800773	16.84855	7.78E-08	0.05626
Red	Gm08_8803261	8	8803261	20.98379	1.62E-09	0.07709
Red	Gm08_8804658	8	8804658	24.36402	7.47E-11	0.08907
Red	Gm08_8810936	8	8810936	26.18218	1.39E-11	0.08808
Red	Gm08_8811880	8	8811880	18.8912	1.19E-08	0.06784
Red	Gm08_8951069	8	8951069	17.10927	6.17E-08	0.05802
Red	Gm08_8951476	8	8951476	16.96664	7.00E-08	0.05881
Red	Gm08_8951494	8	8951494	20.26469	3.15E-09	0.07117
Red	Gm08_8951547	8	8951547	24.88956	4.39E-11	0.08122
Red	Gm08_8951607	8	8951607	19.08362	9.31E-09	0.06278
Red	Gm08_8994913	8	8994913	21.38416	1.09E-09	0.06858
Red	Gm08_9003171	8	9003171	25.32082	3.02E-11	0.09609
Red	Gm08_9003237	8	9003237	22.97303	2.67E-10	0.08969
Red	Gm08_9004627	8	9004627	18.85805	1.22E-08	0.07014
Red	Gm08_9005247	8	9005247	23.65057	1.45E-10	0.09318
Red	Gm08_9005430	8	9005430	24.80657	4.79E-11	0.09519
Red	Gm08_9005432	8	9005432	24.23631	8.13E-11	0.09342
Red	Gm08_9041378	8	9041378	24.87468	4.58E-11	0.08859
Red	Gm08_9049801	8	9049801	22.23874	5.12E-10	0.07692
Red	Gm08_9054741	8	9054741	25.30744	2.98E-11	0.08597
Red	Gm08_9054872	8	9054872	26.92913	6.83E-12	0.09578
Red	Gm08_9056324	8	9056324	20.03348	3.98E-09	0.07501
Red	Gm08_9071236	8	9071236	20.1546	3.68E-09	0.07264
Red	Gm08_9071263	8	9071263	25.45447	2.81E-11	0.09106
Red	Gm08_9077545	8	9077545	17.25447	5.34E-08	0.06086
Red	Gm08_9148564	8	9148564	18.95543	1.10E-08	0.06631
Red	Gm08_9600568	8	9600568	16.64554	9.48E-08	0.0596
Red	Gm08_9957884	8	9957884	17.98788	2.72E-08	0.062
Red	Gm08_9957906	8	9957906	17.47731	4.38E-08	0.05976
Red	Gm09_45769672	9	45769672	17.16196	5.90E-08	0.06292
Green	Gm03_37580091	3	37580091	18.17331	2.26E-08	0.06482
Green	Gm06_18887736	6	18887736	20.53509	2.47E-09	0.07299

Green	Gm07_5791633	7	5791633	16.85852	7.56E-08	0.05504
Green	Gm08_7587823	8	7587823	16.72479	8.83E-08	0.0596
Green	Gm08_7724389	8	7724389	16.98886	7.01E-08	0.06035
Green	Gm08_7820505	8	7820505	21.74655	8.25E-10	0.07882
Green	Gm08_7880131	8	7880131	24.64771	5.58E-11	0.08037
Green	Gm08_7880175	8	7880175	17.51362	4.23E-08	0.06135
Green	Gm08_7890026	8	7890026	21.59548	9.33E-10	0.07088
Green	Gm08_7936163	8	7936163	17.71937	3.56E-08	0.06543
Green	Gm08_7963852	8	7963852	16.78186	8.59E-08	0.06025
Green	Gm08_7985936	8	7985936	18.71355	1.34E-08	0.06382
Green	Gm08_7989738	8	7989738	22.47878	4.20E-10	0.08121
Green	Gm08_7993878	8	7993878	17.91105	2.93E-08	0.0639
Green	Gm08_8000375	8	8000375	32.97179	3.08E-14	0.11686
Green	Gm08_8000994	8	8000994	39.35688	1.02E-16	0.13264
Green	Gm08_8001123	8	8001123	33.00483	3.03E-14	0.11486
Green	Gm08_8001396	8	8001396	28.98167	1.04E-12	0.09657
Green	Gm08_8002535	8	8002535	22.45758	4.34E-10	0.08274
Green	Gm08_8006240	8	8006240	34.46135	7.47E-09	0.05837
Green	Gm08_8006736	8	8006736	22.61847	3.61E-10	0.07594
Green	Gm08_8008583	8	8008583	31.37361	1.25E-13	0.10804
Green	Gm08_8019129	8	8019129	37.04783	7.45E-16	0.12346
Green	Gm08_8024427	8	8024427	24.67163	5.62E-11	0.0971
Green	Gm08_8031082	8	8031082	33.01291	2.90E-14	0.12257
Green	Gm08_8042287	8	8042287	19.87019	4.68E-09	0.07183
Green	Gm08_8047879	8	8047879	23.77367	1.27E-10	0.08526
Green	Gm08_8047994	8	8047994	22.17663	5.36E-10	0.07573
Green	Gm08_8048235	8	8048235	18.32805	1.98E-08	0.06919
Green	Gm08_8052282	8	8052282	37.8361	4.12E-16	0.1325
Green	Gm08_8053376	8	8053376	105.2297	1.07E-22	0.18243
Green	Gm08_8053477	8	8053477	46.20085	2.73E-19	0.1583
Green	Gm08_8055772	8	8055772	36.8684	9.80E-16	0.13621
Green	Gm08_8056510	8	8056510	37.57589	4.92E-16	0.14198
Green	Gm08_8058590	8	8058590	18.21232	2.16E-08	0.06048
Green	Gm08_8059083	8	8059083	17.49074	4.28E-08	0.06026
Green	Gm08_8059184	8	8059184	37.79432	4.34E-16	0.13524
Green	Gm08_8062435	8	8062435	43.12022	4.18E-18	0.15071
Green	Gm08_8065674	8	8065674	43.96098	1.77E-18	0.15173
Green	Gm08_8066335	8	8066335	42.75396	5.08E-18	0.14801
Green	Gm08_8066589	8	8066589	33.7654	1.50E-14	0.12018
Green	Gm08_8067540	8	8067540	20.10033	3.69E-09	0.0689
Green	Gm08_8069365	8	8069365	39.129	1.28E-16	0.13936
Green	Gm08_8069576	8	8069576	17.87962	3.01E-08	0.06281
Green	Gm08_8081879	8	8081879	40.74747	3.02E-17	0.14824
Green	Gm08_8083031	8	8083031	39.33508	1.08E-16	0.13639
Green	Gm08_8088815	8	8088815	23.02183	2.59E-10	0.09151
Green	Gm08_8088980	8	8088980	18.72867	1.39E-08	0.06997

Green	Gm08_8092329	8	8092329	52.11837	1.90E-21	0.18262
Green	Gm08_8095794	8	8095794	38.81299	1.71E-16	0.12979
Green	Gm08_8096014	8	8096014	31.43986	1.18E-13	0.11
Green	Gm08_8099353	8	8099353	30.98711	1.70E-13	0.10636
Green	Gm08_8100194	8	8100194	22.44251	4.43E-10	0.08695
Green	Gm08_8101680	8	8101680	23.83699	1.19E-10	0.09132
Green	Gm08_8110318	8	8110318	36.95554	8.70E-16	0.12666
Green	Gm08_8157061	8	8157061	60.17129	2.44E-24	0.21353
Green	Gm08_8172987	8	8172987	33.96584	1.30E-14	0.11528
Green	Gm08_8176120	8	8176120	23.16022	2.21E-10	0.09013
Green	Gm08_8188522	8	8188522	31.89233	7.77E-14	0.11218
Green	Gm08_8188523	8	8188523	31.43413	1.19E-13	0.10963
Green	Gm08_8190124	8	8190124	38.16791	2.99E-16	0.13327
Green	Gm08_8190497	8	8190497	40.56473	3.74E-17	0.14689
Green	Gm08_8190546	8	8190546	45.90433	3.60E-19	0.1582
Green	Gm08_8191127	8	8191127	70.52938	4.00E-28	0.24321
Green	Gm08_8191455	8	8191455	31.17715	1.53E-13	0.1143
Green	Gm08_8191743	8	8191743	37.72363	4.35E-16	0.12692
Green	Gm08_8192436	8	8192436	32.83887	3.56E-14	0.12147
Green	Gm08_8193398	8	8193398	35.95932	2.05E-15	0.13147
Green	Gm08_8193403	8	8193403	36.29704	1.58E-15	0.13586
Green	Gm08_8193696	8	8193696	34.9602	4.72E-15	0.123
Green	Gm08_8194523	8	8194523	27.72623	3.39E-12	0.09987
Green	Gm08_8195742	8	8195742	76.81969	4.07E-30	0.26328
Green	Gm08_8196111	8	8196111	40.04455	5.71E-17	0.1388
Green	Gm08_8196565	8	8196565	42.06818	8.89E-18	0.14496
Green	Gm08_8196909	8	8196909	38.43309	2.48E-16	0.13474
Green	Gm08_8197293	8	8197293	70.15059	8.26E-28	0.26226
Green	Gm08_8197709	8	8197709	37.80755	3.76E-16	0.134
Green	Gm08_8198228	8	8198228	42.77657	5.46E-18	0.14653
Green	Gm08_8198246	8	8198246	42.34583	7.97E-18	0.14283
Green	Gm08_8199605	8	8199605	39.59346	8.12E-17	0.13996
Green	Gm08_8199626	8	8199626	75.90297	6.52E-30	0.26902
Green	Gm08_8199882	8	8199882	85.31695	4.25E-33	0.28885
Green	Gm08_8200063	8	8200063	39.97257	5.66E-17	0.13575
Green	Gm08_8200230	8	8200230	78.25974	9.18E-31	0.263
Green	Gm08_8200825	8	8200825	82.31683	2.95E-32	0.27285
Green	Gm08_8201008	8	8201008	70.21982	6.37E-28	0.25187
Green	Gm08_8201272	8	8201272	39.94082	5.33E-17	0.13767
Green	Gm08_8201476	8	8201476	87.98908	4.37E-34	0.28458
Green	Gm08_8201501	8	8201501	86.30526	1.84E-33	0.28894
Green	Gm08_8201849	8	8201849	81.36605	7.12E-32	0.27312
Green	Gm08_8202357	8	8202357	71.43391	1.87E-28	0.23123
Green	Gm08_8202427	8	8202427	42.98929	3.91E-18	0.14047
Green	Gm08_8202907	8	8202907	33.89621	1.28E-14	0.12384
Green	Gm08_8203074	8	8203074	67.51921	5.15E-27	0.24407

Green	Gm08_8203593	8	8203593	38.62558	1.88E-16	0.12962
Green	Gm08_8204027	8	8204027	32.7134	3.91E-14	0.12509
Green	Gm08_8204715	8	8204715	33.54041	1.66E-14	0.11398
Green	Gm08_8204961	8	8204961	72.73218	9.79E-29	0.26138
Green	Gm08_8205513	8	8205513	45.10946	7.36E-19	0.15191
Green	Gm08_8205579	8	8205579	43.49472	2.70E-18	0.1459
Green	Gm08_8205602	8	8205602	41.08136	2.34E-17	0.14106
Green	Gm08_8205748	8	8205748	38.11003	3.19E-16	0.13361
Green	Gm08_8209460	8	8209460	32.57423	4.18E-14	0.11649
Green	Gm08_8210287	8	8210287	19.01016	1.04E-08	0.07188
Green	Gm08_8210825	8	8210825	35.81804	2.24E-15	0.11856
Green	Gm08_8214801	8	8214801	34.62624	6.95E-15	0.12379
Green	Gm08_8216666	8	8216666	64.79908	5.49E-26	0.24773
Green	Gm08_8217631	8	8217631	29.93221	4.23E-13	0.10086
Green	Gm08_8230569	8	8230569	26.09963	1.42E-11	0.08236
Green	Gm08_8232667	8	8232667	30.1399	3.70E-13	0.10454
Green	Gm08_8232993	8	8232993	41.33032	1.57E-17	0.13166
Green	Gm08_8233645	8	8233645	36.67161	1.06E-15	0.12098
Green	Gm08_8236097	8	8236097	26.23429	1.35E-11	0.09734
Green	Gm08_8236244	8	8236244	36.40352	1.31E-15	0.12821
Green	Gm08_8236763	8	8236763	32.95959	2.77E-14	0.11376
Green	Gm08_8236862	8	8236862	33.23907	2.21E-14	0.11753
Green	Gm08_8236894	8	8236894	39.46387	9.33E-17	0.13282
Green	Gm08_8237654	8	8237654	40.59928	3.28E-17	0.14079
Green	Gm08_8238668	8	8238668	32.11783	6.29E-14	0.11266
Green	Gm08_8238813	8	8238813	27.6712	3.66E-12	0.10783
Green	Gm08_8241224	8	8241224	71.44652	2.67E-28	0.27415
Green	Gm08_8241247	8	8241247	26.70997	8.74E-12	0.10389
Green	Gm08_8242850	8	8242850	73.8131	4.07E-29	0.2568
Green	Gm08_8243491	8	8243491	70.22936	7.57E-28	0.25156
Green	Gm08_8244136	8	8244136	90.10597	8.81E-35	0.31294
Green	Gm08_8245354	8	8245354	29.52952	6.52E-13	0.10097
Green	Gm08_8245529	8	8245529	89.09749	1.87E-34	0.29145
Green	Gm08_8259822	8	8259822	85.3803	2.84E-33	0.26801
Green	Gm08_8267574	8	8267574	70.20202	7.46E-28	0.23974
Green	Gm08_8267782	8	8267782	17.33451	5.03E-08	0.06733
Green	Gm08_8267935	8	8267935	23.61601	1.44E-10	0.08783
Green	Gm08_8270790	8	8270790	27.3843	4.64E-12	0.09661
Green	Gm08_8270797	8	8270797	25.36028	2.96E-11	0.09195
Green	Gm08_8285621	8	8285621	30.87891	2.00E-13	0.11729
Green	Gm08_8285888	8	8285888	82.07304	5.60E-32	0.28176
Green	Gm08_8288351	8	8288351	31.68611	8.99E-14	0.10455
Green	Gm08_8303360	8	8303360	18.16108	2.29E-08	0.06063
Green	Gm08_8303757	8	8303757	27.50188	4.05E-12	0.09673
Green	Gm08_8303996	8	8303996	26.04349	1.59E-11	0.09241
Green	Gm08_8306163	8	8306163	87.73494	9.45E-34	0.31751

Green	Gm08_8306355	8	8306355	20.0825	3.84E-09	0.07226
Green	Gm08_8306458	8	8306458	38.32016	2.49E-16	0.12626
Green	Gm08_8306806	8	8306806	17.25508	5.39E-08	0.05771
Green	Gm08_8311989	8	8311989	77.12883	2.52E-30	0.26429
Green	Gm08_8312343	8	8312343	59.36711	3.64E-24	0.20661
Green	Gm08_8313215	8	8313215	82.52039	2.77E-32	0.28082
Green	Gm08_8313241	8	8313241	75.7867	7.33E-30	0.26812
Green	Gm08_8313428	8	8313428	53.18116	8.34E-22	0.20761
Green	Gm08_8313640	8	8313640	56.15671	6.52E-23	0.20687
Green	Gm08_8314161	8	8314161	30.73453	2.09E-13	0.10265
Green	Gm08_8314707	8	8314707	69.86581	9.18E-28	0.24634
Green	Gm08_8314788	8	8314788	70.79591	3.54E-28	0.25819
Green	Gm08_8314827	8	8314827	70.07547	5.89E-28	0.25315
Green	Gm08_8314987	8	8314987	65.69071	2.59E-26	0.24071
Green	Gm08_8316860	8	8316860	72.09548	1.58E-28	0.25241
Green	Gm08_8317597	8	8317597	31.22497	1.37E-13	0.10443
Green	Gm08_8318754	8	8318754	24.18733	8.69E-11	0.08342
Green	Gm08_8318759	8	8318759	38.08204	3.43E-16	0.13218
Green	Gm08_8318820	8	8318820	17.02045	6.84E-08	0.05854
Green	Gm08_8318837	8	8318837	80.41678	2.45E-31	0.27428
Green	Gm08_8318895	8	8318895	17.63286	3.77E-08	0.06052
Green	Gm08_8319060	8	8319060	67.27891	8.15E-27	0.25022
Green	Gm08_8319085	8	8319085	62.27352	4.22E-25	0.23395
Green	Gm08_8319087	8	8319087	60.5735	1.83E-24	0.2323
Green	Gm08_8319115	8	8319115	60.84949	1.33E-24	0.22901
Green	Gm08_8319732	8	8319732	71.99624	1.77E-28	0.25769
Green	Gm08_8319744	8	8319744	72.12391	1.52E-28	0.25446
Green	Gm08_8319787	8	8319787	72.73804	9.14E-29	0.26626
Green	Gm08_8319795	8	8319795	73.75476	3.60E-29	0.2624
Green	Gm08_8319799	8	8319799	20.96618	1.65E-09	0.07561
Green	Gm08_8319817	8	8319817	72.27063	1.37E-28	0.25802
Green	Gm08_8319867	8	8319867	60.14998	2.51E-24	0.23158
Green	Gm08_8321558	8	8321558	18.10819	2.38E-08	0.06167
Green	Gm08_8322185	8	8322185	77.50228	2.39E-30	0.26797
Green	Gm08_8322357	8	8322357	76.35423	4.63E-30	0.24444
Green	Gm08_8323966	8	8323966	27.7709	3.11E-12	0.09638
Green	Gm08_8323971	8	8323971	76.26487	4.97E-30	0.25573
Green	Gm08_8323983	8	8323983	71.41524	2.37E-28	0.24075
Green	Gm08_8324392	8	8324392	74.21613	1.95E-29	0.23962
Green	Gm08_8327519	8	8327519	19.30723	7.65E-09	0.06324
Green	Gm08_8328261	8	8328261	76.61406	3.93E-30	0.27837
Green	Gm08_8329538	8	8329538	26.49667	1.03E-11	0.09796
Green	Gm08_8346238	8	8346238	18.53452	1.62E-08	0.06423
Green	Gm08_8354601	8	8354601	36.21272	1.66E-15	0.12938
Green	Gm08_8359499	8	8359499	26.40211	1.02E-11	0.09003
Green	Gm08_8360663	8	8360663	46.49864	1.83E-19	0.16353

Green	Gm08_8362234	8	8362234	16.92928	7.40E-08	0.06594
Green	Gm08_8364457	8	8364457	32.45773	4.30E-14	0.11395
Green	Gm08_8364601	8	8364601	22.44144	4.17E-10	0.07999
Green	Gm08_8368519	8	8368519	38.42724	2.25E-16	0.12633
Green	Gm08_8368552	8	8368552	56.40528	4.29E-23	0.18918
Green	Gm08_8371230	8	8371230	88.33221	4.10E-34	0.28595
Green	Gm08_8373581	8	8373581	110.0656	1.67E-41	0.37062
Green	Gm08_8374519	8	8374519	95.68307	2.06E-36	0.34284
Green	Gm08_8374643	8	8374643	82.89039	3.78E-32	0.28715
Green	Gm08_8374655	8	8374655	48.57072	3.73E-20	0.16454
Green	Gm08_8374738	8	8374738	68.0443	4.27E-27	0.2551
Green	Gm08_8374743	8	8374743	23.54022	1.57E-10	0.08692
Green	Gm08_8375080	8	8375080	35.88546	2.12E-15	0.12415
Green	Gm08_8375124	8	8375124	41.04151	2.39E-17	0.14502
Green	Gm08_8375522	8	8375522	39.3641	9.81E-17	0.14343
Green	Gm08_8375603	8	8375603	52.01353	1.81E-21	0.1755
Green	Gm08_8375666	8	8375666	75.5965	5.01E-30	0.24141
Green	Gm08_8375961	8	8375961	25.903	1.65E-11	0.08187
Green	Gm08_8376085	8	8376085	73.39607	4.50E-29	0.24258
Green	Gm08_8377404	8	8377404	45.48983	4.91E-19	0.15996
Green	Gm08_8377783	8	8377783	90.25254	1.34E-34	0.34252
Green	Gm08_8378225	8	8378225	50.04942	1.19E-20	0.18675
Green	Gm08_8379915	8	8379915	42.26371	7.53E-18	0.13799
Green	Gm08_8380062	8	8380062	40.49127	3.10E-17	0.12772
Green	Gm08_8380544	8	8380544	39.67521	6.54E-17	0.12861
Green	Gm08_8380771	8	8380771	38.86295	1.42E-16	0.13628
Green	Gm08_8380778	8	8380778	35.28925	3.38E-15	0.12509
Green	Gm08_8380797	8	8380797	36.88168	8.25E-16	0.12307
Green	Gm08_8380961	8	8380961	40.33299	3.90E-17	0.13585
Green	Gm08_8380988	8	8380988	36.96422	7.85E-16	0.12603
Green	Gm08_8381058	8	8381058	101.8171	1.16E-38	0.33326
Green	Gm08_8381111	8	8381111	42.16472	7.50E-18	0.13429
Green	Gm08_8381483	8	8381483	41.25426	1.58E-17	0.12657
Green	Gm08_8381494	8	8381494	40.91636	2.10E-17	0.12494
Green	Gm08_8381764	8	8381764	99.4085	4.95E-38	0.30879
Green	Gm08_8390797	8	8390797	112.0631	1.69E-42	0.32407
Green	Gm08_8391476	8	8391476	22.1211	5.12E-10	0.06535
Green	Gm08_8391589	8	8391589	22.12213	5.17E-10	0.06672
Green	Gm08_8391636	8	8391636	23.6765	1.28E-10	0.07664
Green	Gm08_8391703	8	8391703	26.82818	6.34E-12	0.08007
Green	Gm08_8392065	8	8392065	23.61812	1.23E-10	0.06815
Green	Gm08_8392089	8	8392089	22.22835	4.48E-10	0.06342
Green	Gm08_8392458	8	8392458	21.56778	8.36E-10	0.06295
Green	Gm08_8392597	8	8392597	51.02162	2.87E-12	0.08466
Green	Gm08_8392883	8	8392883	21.20363	1.21E-09	0.06404
Green	Gm08_8393576	8	8393576	78.03217	5.34E-31	0.24186

Green	Gm08_8393771	8	8393771	27.78005	3.07E-12	0.09176
Green	Gm08_8393781	8	8393781	25.7627	2.05E-11	0.09126
Green	Gm08_8394768	8	8394768	26.38961	1.05E-11	0.08401
Green	Gm08_8394915	8	8394915	109.0744	3.62E-41	0.35818
Green	Gm08_8395520	8	8395520	21.00891	1.53E-09	0.07019
Green	Gm08_8398559	8	8398559	115.4566	4.38E-43	0.39321
Green	Gm08_8399515	8	8399515	108.9593	3.25E-41	0.36426
Green	Gm08_8399983	8	8399983	20.31319	2.94E-09	0.07104
Green	Gm08_8400595	8	8400595	119.1707	2.50E-44	0.38556
Green	Gm08_8402470	8	8402470	39.47556	6.62E-10	0.06794
Green	Gm08_8402471	8	8402471	39.47791	6.65E-10	0.06741
Green	Gm08_8420033	8	8420033	102.71	8.41E-39	0.35554
Green	Gm08_8421326	8	8421326	18.23721	2.18E-08	0.06568
Green	Gm08_8421496	8	8421496	18.67288	1.45E-08	0.06867
Green	Gm08_8431993	8	8431993	19.27843	8.07E-09	0.07318
Green	Gm08_8438870	8	8438870	103.2585	9.89E-39	0.36836
Green	Gm08_8438876	8	8438876	41.66801	1.49E-17	0.14663
Green	Gm08_8438936	8	8438936	44.54274	1.19E-18	0.15955
Green	Gm08_8439073	8	8439073	102.8526	1.39E-38	0.36504
Green	Gm08_8457731	8	8457731	32.91631	3.08E-14	0.11024
Green	Gm08_8458705	8	8458705	25.15521	3.75E-11	0.10226
Green	Gm08_8473066	8	8473066	17.09959	6.22E-08	0.06006
Green	Gm08_8473227	8	8473227	94.70534	4.44E-36	0.33522
Green	Gm08_8473662	8	8473662	26.48956	1.05E-11	0.09466
Green	Gm08_8508518	8	8508518	19.2355	8.28E-09	0.06525
Green	Gm08_8508773	8	8508773	19.65797	5.56E-09	0.06582
Green	Gm08_8508776	8	8508776	19.3716	7.30E-09	0.06476
Green	Gm08_8509645	8	8509645	22.74334	3.17E-10	0.08136
Green	Gm08_8509775	8	8509775	19.78588	4.96E-09	0.06715
Green	Gm08_8513329	8	8513329	71.98426	1.07E-28	0.23532
Green	Gm08_8513330	8	8513330	73.57218	3.08E-29	0.24173
Green	Gm08_8513350	8	8513350	49.05144	1.76E-20	0.15538
Green	Gm08_8513390	8	8513390	75.95755	2.65E-30	0.23669
Green	Gm08_8513442	8	8513442	74.41058	6.32E-30	0.22182
Green	Gm08_8526593	8	8526593	69.02942	1.56E-27	0.24213
Green	Gm08_8530246	8	8530246	23.20403	2.10E-10	0.0785
Green	Gm08_8530715	8	8530715	43.97755	1.65E-18	0.14371
Green	Gm08_8530811	8	8530811	19.08828	9.52E-09	0.06629
Green	Gm08_8530829	8	8530829	16.81163	8.11E-08	0.06106
Green	Gm08_8530878	8	8530878	71.52607	2.07E-28	0.24326
Green	Gm08_8531722	8	8531722	20.20425	3.40E-09	0.07079
Green	Gm08_8531743	8	8531743	20.28772	3.11E-09	0.07051
Green	Gm08_8531901	8	8531901	24.25088	7.73E-11	0.07959
Green	Gm08_8531923	8	8531923	24.33077	7.31E-11	0.08047
Green	Gm08_8532182	8	8532182	23.12268	2.29E-10	0.08225
Green	Gm08_8532274	8	8532274	41.19033	2.26E-17	0.14519

Green	Gm08_8532878	8	8532878	22.527	3.90E-10	0.07538
Green	Gm08_8535064	8	8535064	42.02587	8.95E-18	0.14034
Green	Gm08_8535153	8	8535153	22.701	3.23E-10	0.0753
Green	Gm08_8535241	8	8535241	18.15719	2.28E-08	0.06072
Green	Gm08_8535483	8	8535483	22.44411	4.14E-10	0.07452
Green	Gm08_8535484	8	8535484	20.92882	1.70E-09	0.06983
Green	Gm08_8536695	8	8536695	20.12785	3.64E-09	0.06862
Green	Gm08_8537176	8	8537176	20.03062	4.10E-09	0.07358
Green	Gm08_8537481	8	8537481	21.46243	1.02E-09	0.07078
Green	Gm08_8537510	8	8537510	21.01722	1.55E-09	0.06924
Green	Gm08_8537579	8	8537579	18.27807	2.02E-08	0.06088
Green	Gm08_8538060	8	8538060	17.89894	2.90E-08	0.0618
Green	Gm08_8538286	8	8538286	56.27269	5.97E-23	0.20526
Green	Gm08_8538449	8	8538449	20.65643	2.22E-09	0.06934
Green	Gm08_8539128	8	8539128	66.41488	1.31E-26	0.23491
Green	Gm08_8539136	8	8539136	18.61691	1.47E-08	0.06218
Green	Gm08_8539249	8	8539249	17.88264	2.98E-08	0.06471
Green	Gm08_8539257	8	8539257	20.50776	2.57E-09	0.07414
Green	Gm08_8539508	8	8539508	18.7076	1.37E-08	0.06654
Green	Gm08_8540424	8	8540424	20.0548	3.89E-09	0.06702
Green	Gm08_8541020	8	8541020	22.12684	5.59E-10	0.07487
Green	Gm08_8541531	8	8541531	20.67629	2.23E-09	0.07811
Green	Gm08_8541533	8	8541533	20.63042	2.35E-09	0.07963
Green	Gm08_8541663	8	8541663	21.96649	6.49E-10	0.07277
Green	Gm08_8541967	8	8541967	26.40558	1.11E-11	0.09014
Green	Gm08_8542721	8	8542721	20.11243	3.77E-09	0.06888
Green	Gm08_8542855	8	8542855	19.05502	9.91E-09	0.06786
Green	Gm08_8543284	8	8543284	18.03804	2.55E-08	0.05869
Green	Gm08_8543287	8	8543287	18.67565	1.40E-08	0.0599
Green	Gm08_8543674	8	8543674	23.69094	1.36E-10	0.08357
Green	Gm08_8543708	8	8543708	27.57975	3.97E-12	0.09259
Green	Gm08_8543723	8	8543723	25.30333	3.10E-11	0.0843
Green	Gm08_8544856	8	8544856	21.85102	7.29E-10	0.07458
Green	Gm08_8544857	8	8544857	22.43736	4.37E-10	0.07949
Green	Gm08_8544869	8	8544869	23.29803	1.96E-10	0.08166
Green	Gm08_8544870	8	8544870	23.40532	1.78E-10	0.08021
Green	Gm08_8544920	8	8544920	16.66362	9.24E-08	0.05797
Green	Gm08_8544921	8	8544921	17.39942	4.66E-08	0.06105
Green	Gm08_8544931	8	8544931	55.32889	1.49E-22	0.2075
Green	Gm08_8544951	8	8544951	17.1933	5.63E-08	0.06186
Green	Gm08_8544975	8	8544975	16.98171	6.91E-08	0.06193
Green	Gm08_8545043	8	8545043	18.8387	1.24E-08	0.06892
Green	Gm08_8546329	8	8546329	20.16764	3.56E-09	0.06876
Green	Gm08_8546381	8	8546381	18.07047	2.47E-08	0.0603
Green	Gm08_8546496	8	8546496	18.73077	1.32E-08	0.06573
Green	Gm08_8546538	8	8546538	18.45911	1.74E-08	0.06963

Green	Gm08_8546690	8	8546690	17.33057	5.03E-08	0.06451
Green	Gm08_8547836	8	8547836	18.49385	1.69E-08	0.06643
Green	Gm08_8547881	8	8547881	22.85874	2.90E-10	0.07723
Green	Gm08_8547902	8	8547902	18.65182	1.45E-08	0.06511
Green	Gm08_8549536	8	8549536	18.4565	1.75E-08	0.06733
Green	Gm08_8550166	8	8550166	19.58072	6.15E-09	0.06706
Green	Gm08_8550222	8	8550222	19.40085	7.11E-09	0.06508
Green	Gm08_8550815	8	8550815	23.44069	1.69E-10	0.07916
Green	Gm08_8550903	8	8550903	19.22544	8.48E-09	0.06637
Green	Gm08_8551421	8	8551421	18.56681	1.58E-08	0.06495
Green	Gm08_8551462	8	8551462	17.69396	3.57E-08	0.06294
Green	Gm08_8552667	8	8552667	24.66481	5.49E-11	0.08096
Green	Gm08_8552680	8	8552680	25.79322	1.97E-11	0.08656
Green	Gm08_8553022	8	8553022	17.47474	4.39E-08	0.06103
Green	Gm08_8557526	8	8557526	20.99199	1.65E-09	0.07444
Green	Gm08_8557749	8	8557749	21.14738	1.40E-09	0.07392
Green	Gm08_8562604	8	8562604	58.75349	7.42E-24	0.22967
Green	Gm08_8564702	8	8564702	56.51137	4.66E-23	0.20389
Green	Gm08_8567208	8	8567208	65.12095	3.59E-26	0.21917
Green	Gm08_8568732	8	8568732	23.14696	2.16E-10	0.07794
Green	Gm08_8573698	8	8573698	49.35112	1.83E-20	0.16726
Green	Gm08_8575427	8	8575427	18.97078	1.11E-08	0.0678
Green	Gm08_8581777	8	8581777	19.09753	9.50E-09	0.06356
Green	Gm08_8582311	8	8582311	80.68367	1.88E-31	0.27169
Green	Gm08_8593015	8	8593015	34.0923	1.05E-14	0.12106
Green	Gm08_8596080	8	8596080	62.89421	2.40E-25	0.2308
Green	Gm08_8598389	8	8598389	21.5338	9.75E-10	0.07128
Green	Gm08_8598614	8	8598614	53.0842	7.69E-22	0.18406
Green	Gm08_8599062	8	8599062	49.89104	1.23E-20	0.17362
Green	Gm08_8599104	8	8599104	19.30352	8.05E-09	0.07016
Green	Gm08_8599749	8	8599749	36.01258	1.95E-15	0.12763
Green	Gm08_8600110	8	8600110	44.40214	1.23E-18	0.1487
Green	Gm08_8600112	8	8600112	44.86694	8.23E-19	0.15039
Green	Gm08_8600577	8	8600577	46.17561	2.85E-19	0.16288
Green	Gm08_8600731	8	8600731	40.85754	2.82E-17	0.14213
Green	Gm08_8606073	8	8606073	29.56528	6.57E-13	0.11147
Green	Gm08_8611170	8	8611170	49.88267	1.20E-20	0.18468
Green	Gm08_8616114	8	8616114	22.68555	3.43E-10	0.07858
Green	Gm08_8618655	8	8618655	35.89409	2.10E-15	0.12671
Green	Gm08_8619695	8	8619695	21.20659	1.35E-09	0.07762
Green	Gm08_8624758	8	8624758	25.90305	1.79E-11	0.08877
Green	Gm08_8624935	8	8624935	17.7965	3.24E-08	0.06173
Green	Gm08_8625732	8	8625732	32.07602	6.69E-14	0.11476
Green	Gm08_8626730	8	8626730	20.23893	3.37E-09	0.07338
Green	Gm08_8630161	8	8630161	22.47754	4.18E-10	0.08163
Green	Gm08_8635529	8	8635529	19.21691	8.67E-09	0.06779

Green	Gm08_8642244	8	8642244	17.09286	6.33E-08	0.06001
Green	Gm08_8642278	8	8642278	28.36226	1.95E-12	0.10545
Green	Gm08_8655544	8	8655544	23.53075	1.62E-10	0.08501
Green	Gm08_8661143	8	8661143	17.27332	5.32E-08	0.06364
Green	Gm08_8661207	8	8661207	48.43353	4.80E-20	0.18692
Green	Gm08_8661940	8	8661940	67.70922	5.52E-27	0.23448
Green	Gm08_8661946	8	8661946	66.56461	1.40E-26	0.2312
Green	Gm08_8665831	8	8665831	24.49857	6.41E-11	0.08782
Green	Gm08_8669224	8	8669224	32.54674	4.32E-14	0.12179
Green	Gm08_8670168	8	8670168	38.67834	1.71E-16	0.12735
Green	Gm08_8672494	8	8672494	52.99316	1.02E-21	0.19378
Green	Gm08_8675132	8	8675132	55.80141	1.05E-22	0.19843
Green	Gm08_8679805	8	8679805	41.13933	2.32E-17	0.15466
Green	Gm08_8683339	8	8683339	23.60371	1.43E-10	0.07775
Green	Gm08_8693593	8	8693593	18.64798	1.44E-08	0.06635
Green	Gm08_8694446	8	8694446	20.53327	2.42E-09	0.06865
Green	Gm08_8694679	8	8694679	17.71217	3.53E-08	0.06231
Green	Gm08_8704007	8	8704007	21.43043	1.10E-09	0.07232
Green	Gm08_8711592	8	8711592	27.46133	4.34E-12	0.09303
Green	Gm08_8714742	8	8714742	32.71013	3.70E-14	0.11693
Green	Gm08_8718333	8	8718333	23.06626	2.39E-10	0.08423
Green	Gm08_8719983	8	8719983	22.97222	2.64E-10	0.0805
Green	Gm08_8724028	8	8724028	24.2611	8.11E-11	0.09309
Green	Gm08_8724679	8	8724679	16.64546	9.66E-08	0.06446
Green	Gm08_8728517	8	8728517	22.92492	2.78E-10	0.07657
Green	Gm08_8730779	8	8730779	34.77551	5.83E-15	0.1209
Green	Gm08_8731711	8	8731711	22.04732	6.22E-10	0.07324
Green	Gm08_8732105	8	8732105	25.7166	2.13E-11	0.09349
Green	Gm08_8733115	8	8733115	20.68528	2.21E-09	0.07526
Green	Gm08_8733180	8	8733180	26.00927	1.69E-11	0.09517
Green	Gm08_8733296	8	8733296	20.21259	3.37E-09	0.07673
Green	Gm08_8733318	8	8733318	23.46902	1.64E-10	0.08484
Green	Gm08_8733852	8	8733852	31.15553	1.53E-13	0.1175
Green	Gm08_8734062	8	8734062	24.14479	8.67E-11	0.08187
Green	Gm08_8734345	8	8734345	36.68662	1.10E-15	0.12081
Green	Gm08_8739475	8	8739475	18.1522	2.34E-08	0.06409
Green	Gm08_8741243	8	8741243	39.38414	1.11E-16	0.14155
Green	Gm08_8741992	8	8741992	30.26047	3.41E-13	0.112
Green	Gm08_8742487	8	8742487	26.13994	1.44E-11	0.08979
Green	Gm08_8742890	8	8742890	39.12634	1.32E-16	0.13593
Green	Gm08_8744275	8	8744275	36.24741	1.51E-15	0.12237
Green	Gm08_8748456	8	8748456	26.57374	9.56E-12	0.09403
Green	Gm08_8748463	8	8748463	26.41164	1.12E-11	0.09218
Green	Gm08_8752677	8	8752677	32.50411	4.37E-14	0.10791
Green	Gm08_8752816	8	8752816	37.26867	7.06E-16	0.1405
Green	Gm08_8753400	8	8753400	37.9194	3.84E-16	0.13266

Green	Gm08_8753446	8	8753446	36.60341	1.24E-15	0.12829
Green	Gm08_8753556	8	8753556	35.9305	2.01E-15	0.12369
Green	Gm08_8753670	8	8753670	37.91399	3.35E-16	0.1223
Green	Gm08_8754364	8	8754364	40.06293	5.69E-17	0.14466
Green	Gm08_8754420	8	8754420	42.81792	5.22E-18	0.15575
Green	Gm08_8754534	8	8754534	28.5226	1.57E-12	0.10197
Green	Gm08_8756149	8	8756149	41.79866	1.20E-17	0.14991
Green	Gm08_8756207	8	8756207	17.42107	4.58E-08	0.06218
Green	Gm08_8756368	8	8756368	40.69563	2.86E-17	0.13336
Green	Gm08_8756533	8	8756533	18.00092	2.60E-08	0.05847
Green	Gm08_8757269	8	8757269	35.4982	2.97E-15	0.11933
Green	Gm08_8758650	8	8758650	17.28248	5.19E-08	0.05748
Green	Gm08_8758656	8	8758656	17.04891	6.45E-08	0.05726
Green	Gm08_8758857	8	8758857	20.32808	3.05E-09	0.06882
Green	Gm08_8758861	8	8758861	33.29844	2.28E-14	0.11724
Green	Gm08_8759543	8	8759543	37.47502	5.20E-16	0.13462
Green	Gm08_8760565	8	8760565	18.11179	2.44E-08	0.0665
Green	Gm08_8760738	8	8760738	20.33522	3.05E-09	0.0769
Green	Gm08_8760790	8	8760790	17.66476	3.69E-08	0.0634
Green	Gm08_8761516	8	8761516	17.18286	5.70E-08	0.0606
Green	Gm08_8763923	8	8763923	31.20836	1.51E-13	0.11061
Green	Gm08_8763987	8	8763987	16.82872	8.25E-08	0.06639
Green	Gm08_8764778	8	8764778	34.72847	6.04E-15	0.12233
Green	Gm08_8769254	8	8769254	22.7721	3.10E-10	0.08
Green	Gm08_8772458	8	8772458	20.40358	2.89E-09	0.08071
Green	Gm08_8794917	8	8794917	16.8574	7.86E-08	0.05952
Green	Gm08_8797990	8	8797990	21.29442	1.23E-09	0.07932
Green	Gm08_8803261	8	8803261	28.52158	1.58E-12	0.09706
Green	Gm08_8804658	8	8804658	27.42034	4.60E-12	0.10124
Green	Gm08_8810936	8	8810936	31.998	7.28E-14	0.10821
Green	Gm08_8811797	8	8811797	18.96095	1.11E-08	0.06935
Green	Gm08_8951069	8	8951069	19.63175	5.80E-09	0.06424
Green	Gm08_8951476	8	8951476	20.05102	3.87E-09	0.06841
Green	Gm08_8951494	8	8951494	23.14358	2.17E-10	0.08104
Green	Gm08_8951547	8	8951547	27.47873	4.10E-12	0.09119
Green	Gm08_8951607	8	8951607	26.06227	1.42E-11	0.08261
Green	Gm08_8994913	8	8994913	27.27593	4.73E-12	0.08999
Green	Gm08_9003171	8	9003171	33.33044	2.17E-14	0.12339
Green	Gm08_9003202	8	9003202	17.72336	3.46E-08	0.0622
Green	Gm08_9003203	8	9003203	17.6296	3.78E-08	0.0619
Green	Gm08_9003237	8	9003237	29.78274	5.40E-13	0.11875
Green	Gm08_9004627	8	9004627	19.92322	4.51E-09	0.08181
Green	Gm08_9005247	8	9005247	30.77978	2.26E-13	0.11912
Green	Gm08_9005430	8	9005430	31.49291	1.11E-13	0.11574
Green	Gm08_9005432	8	9005432	31.15871	1.51E-13	0.1148
Green	Gm08_9014007	8	9014007	17.19632	5.66E-08	0.06077

Green	Gm08_9041378	8	9041378	30.46731	2.85E-13	0.10861
Green	Gm08_9049801	8	9049801	26.04342	1.55E-11	0.09017
Green	Gm08_9054741	8	9054741	32.20945	5.67E-14	0.11303
Green	Gm08_9054872	8	9054872	39.7109	7.48E-17	0.14049
Green	Gm08_9056324	8	9056324	22.91408	2.75E-10	0.08382
Green	Gm08_9063387	8	9063387	25.46243	2.66E-11	0.08439
Green	Gm08_9071236	8	9071236	22.77066	3.28E-10	0.08662
Green	Gm08_9071263	8	9071263	27.87432	3.13E-12	0.10462
Green	Gm08_9077545	8	9077545	21.35484	1.15E-09	0.07403
Green	Gm08_9094556	8	9094556	18.32124	2.00E-08	0.0646
Green	Gm08_9096795	8	9096795	18.45782	1.74E-08	0.06536
Green	Gm08_9119281	8	9119281	24.96624	4.01E-11	0.08204
Green	Gm08_9137691	8	9137691	17.228	5.59E-08	0.05856
Green	Gm08_9148564	8	9148564	21.1056	1.48E-09	0.07668
Green	Gm08_9502316	8	9502316	22.44278	4.11E-10	0.07276
Green	Gm08_9587719	8	9587719	20.96685	1.65E-09	0.07249
Green	Gm08_9589694	8	9589694	22.29414	4.89E-10	0.07547
Green	Gm08_9590447	8	9590447	20.44573	2.68E-09	0.06792
Green	Gm08_9590873	8	9590873	22.1791	5.39E-10	0.07449
Green	Gm08_9591064	8	9591064	21.78558	7.90E-10	0.07668
Green	Gm08_9597983	8	9597983	21.90434	6.95E-10	0.07519
Green	Gm08_9597994	8	9597994	20.31001	3.08E-09	0.07103
Green	Gm08_9598154	8	9598154	21.1003	1.47E-09	0.07076
Green	Gm08_9598223	8	9598223	18.96618	1.08E-08	0.06476
Green	Gm08_9598570	8	9598570	19.81105	4.90E-09	0.06899
Green	Gm08_9598907	8	9598907	19.33568	7.69E-09	0.06349
Green	Gm08_9598955	8	9598955	18.97036	1.07E-08	0.06076
Green	Gm08_9599939	8	9599939	22.96707	2.66E-10	0.08096
Green	Gm08_9599966	8	9599966	20.74064	2.07E-09	0.07207
Green	Gm08_9600568	8	9600568	22.09008	5.81E-10	0.07543
Green	Gm08_9601450	8	9601450	21.98141	6.44E-10	0.07435
Green	Gm08_9601586	8	9601586	20.1739	3.55E-09	0.07082
Green	Gm08_9601687	8	9601687	21.73733	8.24E-10	0.0727
Green	Gm08_9606962	8	9606962	22.86885	2.89E-10	0.08117
Green	Gm08_9608378	8	9608378	16.73432	8.87E-08	0.06137
Green	Gm08_9608390	8	9608390	16.80646	8.39E-08	0.061
Green	Gm08_9669537	8	9669537	17.17792	5.80E-08	0.05951
Green	Gm08_9681109	8	9681109	17.8346	3.12E-08	0.05843
Green	Gm08_9692622	8	9692622	18.65752	1.40E-08	0.0611
Green	Gm08_9697726	8	9697726	18.30785	2.00E-08	0.06309
Green	Gm08_9697744	8	9697744	18.48363	1.68E-08	0.06355
Green	Gm08_9698987	8	9698987	17.00946	6.74E-08	0.05634
Green	Gm08_9699064	8	9699064	22.14118	5.42E-10	0.07161
Green	Gm08_9699873	8	9699873	17.26344	5.36E-08	0.06184
Green	Gm08_9699956	8	9699956	18.60425	1.50E-08	0.06199
Green	Gm08_9857114	8	9857114	17.29379	5.15E-08	0.05849

Green	Gm08_9904331	8	9904331	17.75579	3.36E-08	0.06025
Green	Gm08_9907132	8	9907132	16.86811	7.65E-08	0.05632
Green	Gm08_9908781	8	9908781	20.47237	2.65E-09	0.07217
Green	Gm08_9909354	8	9909354	20.01951	4.09E-09	0.07037
Green	Gm08_9957884	8	9957884	27.30273	5.01E-12	0.0894
Green	Gm08_9957906	8	9957906	26.65914	8.92E-12	0.08833
Green	Gm08_9957944	8	9957944	17.98746	2.72E-08	0.0631
Green	Gm10_41380742	10	41380742	22.28731	4.92E-10	0.07525
Blue	Gm08_8000375	8	8000375	23.51276	1.62E-10	0.08598
Blue	Gm08_8000994	8	8000994	29.51188	6.53E-13	0.10026
Blue	Gm08_8001123	8	8001123	25.40054	2.88E-11	0.08864
Blue	Gm08_8001396	8	8001396	19.56596	6.09E-09	0.06493
Blue	Gm08_8002535	8	8002535	17.39611	4.81E-08	0.06634
Blue	Gm08_8008583	8	8008583	21.56725	9.62E-10	0.0747
Blue	Gm08_8019129	8	8019129	26.88527	6.94E-12	0.09171
Blue	Gm08_8024427	8	8024427	19.8797	4.69E-09	0.07794
Blue	Gm08_8031082	8	8031082	25.21051	3.36E-11	0.09167
Blue	Gm08_8052282	8	8052282	26.33093	1.22E-11	0.09468
Blue	Gm08_8052324	8	8052324	17.45178	4.51E-08	0.06034
Blue	Gm08_8052330	8	8052330	17.51865	4.22E-08	0.05998
Blue	Gm08_8052396	8	8052396	20.82443	1.97E-09	0.07378
Blue	Gm08_8053376	8	8053376	77.62925	1.66E-17	0.13008
Blue	Gm08_8053477	8	8053477	33.50056	1.83E-14	0.11379
Blue	Gm08_8055772	8	8055772	28.05571	2.56E-12	0.10259
Blue	Gm08_8056510	8	8056510	26.47827	1.04E-11	0.101
Blue	Gm08_8059184	8	8059184	27.81608	3.18E-12	0.10006
Blue	Gm08_8062435	8	8062435	31.61246	1.03E-13	0.11325
Blue	Gm08_8065674	8	8065674	33.90829	1.23E-14	0.11462
Blue	Gm08_8066335	8	8066335	31.19096	1.41E-13	0.10862
Blue	Gm08_8066589	8	8066589	25.3895	2.87E-11	0.09193
Blue	Gm08_8069365	8	8069365	29.49851	6.72E-13	0.10765
Blue	Gm08_8081879	8	8081879	31.73403	8.83E-14	0.11648
Blue	Gm08_8083031	8	8083031	27.32063	4.86E-12	0.09644
Blue	Gm08_8092329	8	8092329	35.80893	2.42E-15	0.12732
Blue	Gm08_8095794	8	8095794	28.47865	1.70E-12	0.09774
Blue	Gm08_8096014	8	8096014	22.68268	3.43E-10	0.08116
Blue	Gm08_8099353	8	8099353	20.82827	1.87E-09	0.07353
Blue	Gm08_8101680	8	8101680	17.19402	5.73E-08	0.06508
Blue	Gm08_8110318	8	8110318	25.08825	3.73E-11	0.0885
Blue	Gm08_8138303	8	8138303	18.57988	1.58E-08	0.07081
Blue	Gm08_8138722	8	8138722	18.26353	2.07E-08	0.06364
Blue	Gm08_8138760	8	8138760	18.71435	1.36E-08	0.06622
Blue	Gm08_8138765	8	8138765	17.3131	5.05E-08	0.05974
Blue	Gm08_8138772	8	8138772	18.63824	1.46E-08	0.06371
Blue	Gm08_8139011	8	8139011	17.75892	3.35E-08	0.06308
Blue	Gm08_8139626	8	8139626	17.07144	6.39E-08	0.05922

Blue	Gm08_8157061	8	8157061	50.3456	8.64E-21	0.17912
Blue	Gm08_8172987	8	8172987	21.55449	9.93E-10	0.07498
Blue	Gm08_8188522	8	8188522	20.34817	2.97E-09	0.07204
Blue	Gm08_8188523	8	8188523	20.22352	3.35E-09	0.0711
Blue	Gm08_8190124	8	8190124	27.22211	5.32E-12	0.09307
Blue	Gm08_8190497	8	8190497	24.89415	4.49E-11	0.0946
Blue	Gm08_8190546	8	8190546	28.34985	1.90E-12	0.09946
Blue	Gm08_8191127	8	8191127	56.45316	4.09E-23	0.19909
Blue	Gm08_8191455	8	8191455	22.56907	3.85E-10	0.08143
Blue	Gm08_8191743	8	8191743	27.99803	2.60E-12	0.09441
Blue	Gm08_8192436	8	8192436	22.07736	6.14E-10	0.08179
Blue	Gm08_8193398	8	8193398	29.77975	5.16E-13	0.10563
Blue	Gm08_8193403	8	8193403	30.29748	3.32E-13	0.11092
Blue	Gm08_8193696	8	8193696	22.55669	3.72E-10	0.07964
Blue	Gm08_8194523	8	8194523	20.62691	2.31E-09	0.07179
Blue	Gm08_8195742	8	8195742	57.09648	3.07E-23	0.20586
Blue	Gm08_8196111	8	8196111	26.28247	1.25E-11	0.09118
Blue	Gm08_8196565	8	8196565	27.46891	4.04E-12	0.09982
Blue	Gm08_8196909	8	8196909	22.72449	3.34E-10	0.08111
Blue	Gm08_8197293	8	8197293	56.91689	3.72E-23	0.21105
Blue	Gm08_8197709	8	8197709	25.40285	2.68E-11	0.08987
Blue	Gm08_8198228	8	8198228	29.966	4.46E-13	0.10446
Blue	Gm08_8198246	8	8198246	29.48631	6.90E-13	0.10048
Blue	Gm08_8199605	8	8199605	28.13637	2.25E-12	0.0997
Blue	Gm08_8199626	8	8199626	59.00725	5.43E-24	0.21287
Blue	Gm08_8199882	8	8199882	63.93916	9.38E-26	0.21645
Blue	Gm08_8200063	8	8200063	28.96428	1.04E-12	0.09687
Blue	Gm08_8200230	8	8200230	59.15103	4.50E-24	0.19895
Blue	Gm08_8200825	8	8200825	64.382	5.11E-26	0.21364
Blue	Gm08_8201008	8	8201008	59.19689	4.89E-24	0.21404
Blue	Gm08_8201272	8	8201272	29.01335	9.52E-13	0.09907
Blue	Gm08_8201476	8	8201476	64.19884	6.64E-26	0.20803
Blue	Gm08_8201501	8	8201501	65.9548	1.73E-26	0.21931
Blue	Gm08_8201849	8	8201849	64.59784	4.70E-26	0.21611
Blue	Gm08_8202357	8	8202357	54.63427	1.84E-22	0.18116
Blue	Gm08_8202427	8	8202427	28.93138	1.06E-12	0.09687
Blue	Gm08_8202907	8	8202907	22.78142	3.09E-10	0.08158
Blue	Gm08_8203074	8	8203074	55.35071	1.13E-22	0.19986
Blue	Gm08_8203593	8	8203593	28.45553	1.67E-12	0.09844
Blue	Gm08_8204027	8	8204027	22.2719	5.09E-10	0.08355
Blue	Gm08_8204715	8	8204715	23.89195	1.08E-10	0.08067
Blue	Gm08_8204961	8	8204961	57.6916	1.85E-23	0.20288
Blue	Gm08_8205513	8	8205513	30.8803	1.97E-13	0.10663
Blue	Gm08_8205579	8	8205579	31.22209	1.38E-13	0.10762
Blue	Gm08_8205602	8	8205602	29.39396	7.42E-13	0.10293
Blue	Gm08_8205748	8	8205748	27.92396	2.83E-12	0.09859

Blue	Gm08_8209460	8	8209460	23.02818	2.46E-10	0.08316
Blue	Gm08_8210825	8	8210825	23.94764	1.04E-10	0.07944
Blue	Gm08_8214801	8	8214801	22.55139	3.89E-10	0.08129
Blue	Gm08_8216666	8	8216666	49.74939	1.40E-20	0.18793
Blue	Gm08_8217631	8	8217631	19.1451	8.86E-09	0.06667
Blue	Gm08_8232667	8	8232667	20.36691	2.90E-09	0.06928
Blue	Gm08_8232993	8	8232993	27.8558	2.74E-12	0.09031
Blue	Gm08_8233645	8	8233645	22.57118	3.70E-10	0.07601
Blue	Gm08_8236097	8	8236097	16.83193	8.14E-08	0.05995
Blue	Gm08_8236244	8	8236244	24.66009	5.33E-11	0.08534
Blue	Gm08_8236763	8	8236763	22.8983	2.68E-10	0.07681
Blue	Gm08_8236862	8	8236862	25.01007	3.87E-11	0.0858
Blue	Gm08_8236894	8	8236894	27.85032	2.96E-12	0.09113
Blue	Gm08_8237654	8	8237654	24.10314	8.94E-11	0.0831
Blue	Gm08_8238668	8	8238668	21.52367	9.91E-10	0.07527
Blue	Gm08_8238813	8	8238813	19.05873	1.01E-08	0.07397
Blue	Gm08_8241224	8	8241224	64.19261	8.97E-26	0.23548
Blue	Gm08_8241247	8	8241247	21.34788	1.20E-09	0.07968
Blue	Gm08_8242850	8	8242850	57.6162	1.93E-23	0.19879
Blue	Gm08_8243491	8	8243491	52.96041	9.80E-22	0.18969
Blue	Gm08_8244136	8	8244136	69.01226	1.34E-27	0.24199
Blue	Gm08_8245354	8	8245354	19.45329	6.84E-09	0.06574
Blue	Gm08_8245529	8	8245529	68.50488	2.00E-27	0.22386
Blue	Gm08_8259822	8	8259822	65.18404	2.72E-26	0.20771
Blue	Gm08_8267574	8	8267574	50.92478	5.30E-21	0.17477
Blue	Gm08_8270790	8	8270790	17.01514	6.79E-08	0.06066
Blue	Gm08_8285621	8	8285621	19.52518	6.48E-09	0.07721
Blue	Gm08_8285888	8	8285888	61.72197	6.02E-25	0.21003
Blue	Gm08_8288351	8	8288351	20.74948	2.01E-09	0.06879
Blue	Gm08_8303757	8	8303757	17.41133	4.62E-08	0.06031
Blue	Gm08_8303996	8	8303996	17.22968	5.57E-08	0.06004
Blue	Gm08_8306163	8	8306163	65.5532	3.12E-26	0.24716
Blue	Gm08_8306458	8	8306458	24.9445	4.16E-11	0.08548
Blue	Gm08_8311989	8	8311989	57.87208	1.40E-23	0.20364
Blue	Gm08_8312343	8	8312343	47.45636	8.40E-20	0.16418
Blue	Gm08_8313215	8	8313215	61.72301	4.85E-25	0.2141
Blue	Gm08_8313241	8	8313241	57.31812	2.24E-23	0.20955
Blue	Gm08_8313428	8	8313428	43.06406	4.46E-18	0.1615
Blue	Gm08_8313640	8	8313640	46.91766	1.56E-19	0.1665
Blue	Gm08_8314161	8	8314161	19.22152	8.32E-09	0.06551
Blue	Gm08_8314707	8	8314707	55.96974	7.49E-23	0.19189
Blue	Gm08_8314788	8	8314788	56.39825	4.55E-23	0.19882
Blue	Gm08_8314827	8	8314827	56.73798	3.27E-23	0.19917
Blue	Gm08_8314987	8	8314987	48.14751	5.35E-20	0.17848
Blue	Gm08_8316860	8	8316860	56.90808	3.47E-23	0.2032
Blue	Gm08_8317597	8	8317597	18.68706	1.39E-08	0.06344

Blue	Gm08_8318759	8	8318759	22.1122	5.92E-10	0.07726
Blue	Gm08_8318820	8	8318820	19.12154	9.56E-09	0.0685
Blue	Gm08_8318837	8	8318837	59.0387	6.14E-24	0.20768
Blue	Gm08_8319060	8	8319060	51.55242	3.24E-21	0.19769
Blue	Gm08_8319085	8	8319085	52.41814	1.47E-21	0.19488
Blue	Gm08_8319087	8	8319087	50.99804	5.12E-21	0.19389
Blue	Gm08_8319115	8	8319115	51.51114	3.10E-21	0.19202
Blue	Gm08_8319708	8	8319708	17.33361	4.94E-08	0.06424
Blue	Gm08_8319732	8	8319732	53.83669	4.57E-22	0.19928
Blue	Gm08_8319744	8	8319744	53.31667	6.85E-22	0.19566
Blue	Gm08_8319787	8	8319787	53.05647	8.40E-22	0.19464
Blue	Gm08_8319795	8	8319795	53.46114	5.56E-22	0.19157
Blue	Gm08_8319817	8	8319817	53.66003	5.18E-22	0.19204
Blue	Gm08_8319867	8	8319867	43.91024	2.10E-18	0.16816
Blue	Gm08_8322185	8	8322185	56.8166	3.87E-23	0.2013
Blue	Gm08_8322357	8	8322357	57.95634	1.31E-23	0.18771
Blue	Gm08_8323971	8	8323971	53.89802	3.86E-22	0.18435
Blue	Gm08_8323983	8	8323983	51.02141	4.41E-21	0.17578
Blue	Gm08_8324392	8	8324392	55.4781	8.86E-23	0.18039
Blue	Gm08_8328261	8	8328261	60.46936	1.68E-24	0.21334
Blue	Gm08_8346238	8	8346238	18.92207	1.13E-08	0.06668
Blue	Gm08_8354601	8	8354601	23.32415	1.88E-10	0.08347
Blue	Gm08_8359499	8	8359499	17.19163	5.49E-08	0.05813
Blue	Gm08_8360663	8	8360663	35.47637	2.89E-15	0.12234
Blue	Gm08_8364457	8	8364457	19.80656	4.76E-09	0.06768
Blue	Gm08_8368519	8	8368519	22.90817	2.72E-10	0.07497
Blue	Gm08_8368552	8	8368552	41.28416	1.76E-17	0.13913
Blue	Gm08_8371230	8	8371230	70.11577	6.24E-28	0.23326
Blue	Gm08_8373581	8	8373581	85.31976	2.25E-33	0.29354
Blue	Gm08_8374519	8	8374519	68.76041	2.14E-27	0.25694
Blue	Gm08_8374643	8	8374643	63.19139	2.10E-25	0.22946
Blue	Gm08_8374655	8	8374655	32.50769	4.52E-14	0.11529
Blue	Gm08_8374738	8	8374738	53.48	6.30E-22	0.20786
Blue	Gm08_8375080	8	8375080	21.67315	8.52E-10	0.07771
Blue	Gm08_8375124	8	8375124	24.97419	4.12E-11	0.09264
Blue	Gm08_8375522	8	8375522	24.71395	5.12E-11	0.08861
Blue	Gm08_8375603	8	8375603	31.78069	8.26E-14	0.10959
Blue	Gm08_8375666	8	8375666	60.80969	8.69E-25	0.19539
Blue	Gm08_8376085	8	8376085	55.50168	9.70E-23	0.1926
Blue	Gm08_8377404	8	8377404	26.77617	7.82E-12	0.09594
Blue	Gm08_8377783	8	8377783	70.90215	4.17E-28	0.27112
Blue	Gm08_8378225	8	8378225	41.19356	2.29E-17	0.14997
Blue	Gm08_8379915	8	8379915	26.75798	7.75E-12	0.08899
Blue	Gm08_8380062	8	8380062	26.01934	1.44E-11	0.08353
Blue	Gm08_8380544	8	8380544	25.36869	2.65E-11	0.08268
Blue	Gm08_8380771	8	8380771	27.33173	4.48E-12	0.09826

Blue	Gm08_8380778	8	8380778	23.64707	1.33E-10	0.08332
Blue	Gm08_8380797	8	8380797	24.40585	6.61E-11	0.08095
Blue	Gm08_8380961	8	8380961	29.92721	4.22E-13	0.09948
Blue	Gm08_8380988	8	8380988	25.53577	2.36E-11	0.08673
Blue	Gm08_8381058	8	8381058	77.486	1.42E-30	0.25456
Blue	Gm08_8381111	8	8381111	26.96096	6.19E-12	0.08723
Blue	Gm08_8381483	8	8381483	26.45153	9.64E-12	0.082
Blue	Gm08_8381494	8	8381494	25.74345	1.84E-11	0.07928
Blue	Gm08_8381764	8	8381764	79.69555	1.97E-31	0.24684
Blue	Gm08_8390797	8	8390797	87.18701	3.05E-34	0.25588
Blue	Gm08_8391476	8	8391476	24.90628	3.82E-11	0.07504
Blue	Gm08_8391589	8	8391589	25.42652	2.39E-11	0.07793
Blue	Gm08_8391636	8	8391636	26.63837	8.36E-12	0.0863
Blue	Gm08_8391703	8	8391703	29.94928	3.59E-13	0.089
Blue	Gm08_8392065	8	8392065	27.64038	2.93E-12	0.08028
Blue	Gm08_8392089	8	8392089	26.15648	1.15E-11	0.07507
Blue	Gm08_8392458	8	8392458	24.74208	4.29E-11	0.07212
Blue	Gm08_8392597	8	8392597	40.80913	3.55E-10	0.06855
Blue	Gm08_8392883	8	8392883	24.71279	4.57E-11	0.07611
Blue	Gm08_8393576	8	8393576	58.82498	3.80E-24	0.18412
Blue	Gm08_8393771	8	8393771	31.33237	1.23E-13	0.10651
Blue	Gm08_8393781	8	8393781	30.57681	2.61E-13	0.11224
Blue	Gm08_8394768	8	8394768	30.62099	2.22E-13	0.09877
Blue	Gm08_8394915	8	8394915	85.53145	1.97E-33	0.2783
Blue	Gm08_8395520	8	8395520	27.12336	5.35E-12	0.08942
Blue	Gm08_8398559	8	8398559	97.11912	3.22E-37	0.32872
Blue	Gm08_8399515	8	8399515	86.32383	9.32E-34	0.27891
Blue	Gm08_8399983	8	8399983	23.02652	2.35E-10	0.07845
Blue	Gm08_8400595	8	8400595	96.03547	6.32E-37	0.3119
Blue	Gm08_8402470	8	8402470	44.08695	7.35E-11	0.07606
Blue	Gm08_8402471	8	8402471	43.56349	9.49E-11	0.0745
Blue	Gm08_8420033	8	8420033	76.11541	5.16E-30	0.26426
Blue	Gm08_8421326	8	8421326	21.4376	1.11E-09	0.07919
Blue	Gm08_8421496	8	8421496	20.41749	2.85E-09	0.07756
Blue	Gm08_8431993	8	8431993	22.54282	3.88E-10	0.08579
Blue	Gm08_8438870	8	8438870	78.42122	1.20E-30	0.28384
Blue	Gm08_8438876	8	8438876	24.2511	8.22E-11	0.08701
Blue	Gm08_8438936	8	8438936	27.76756	3.26E-12	0.10199
Blue	Gm08_8439073	8	8439073	77.75285	2.08E-30	0.2753
Blue	Gm08_8457731	8	8457731	18.62318	1.48E-08	0.06246
Blue	Gm08_8458338	8	8458338	18.7979	1.23E-08	0.06304
Blue	Gm08_8458443	8	8458443	18.20391	2.16E-08	0.06244
Blue	Gm08_8473004	8	8473004	17.34322	4.96E-08	0.0602
Blue	Gm08_8473009	8	8473009	16.60731	9.92E-08	0.05731
Blue	Gm08_8473040	8	8473040	16.92026	7.32E-08	0.05669
Blue	Gm08_8473066	8	8473066	16.98397	6.94E-08	0.06125

Blue	Gm08_8473075	8	8473075	16.72347	8.86E-08	0.05886
Blue	Gm08_8473115	8	8473115	18.25182	2.06E-08	0.05965
Blue	Gm08_8473117	8	8473117	18.04319	2.49E-08	0.05893
Blue	Gm08_8473145	8	8473145	17.77654	3.23E-08	0.06202
Blue	Gm08_8473227	8	8473227	71.65306	2.19E-28	0.25402
Blue	Gm08_8508518	8	8508518	26.39245	1.10E-11	0.09128
Blue	Gm08_8508773	8	8508773	21.93028	6.69E-10	0.07415
Blue	Gm08_8508776	8	8508776	22.34556	4.58E-10	0.07548
Blue	Gm08_8509645	8	8509645	25.30131	3.01E-11	0.08855
Blue	Gm08_8509775	8	8509775	22.88436	2.78E-10	0.07698
Blue	Gm08_8513329	8	8513329	57.41492	1.66E-23	0.18602
Blue	Gm08_8513330	8	8513330	58.71065	5.71E-24	0.19126
Blue	Gm08_8513350	8	8513350	33.31875	1.85E-14	0.10461
Blue	Gm08_8513390	8	8513390	60.79978	6.93E-25	0.18667
Blue	Gm08_8513442	8	8513442	59.48362	1.62E-24	0.17455
Blue	Gm08_8526593	8	8526593	52.74447	1.02E-21	0.18308
Blue	Gm08_8527558	8	8527558	17.35645	4.86E-08	0.06073
Blue	Gm08_8530246	8	8530246	23.58289	1.48E-10	0.08264
Blue	Gm08_8530715	8	8530715	30.34638	2.92E-13	0.10013
Blue	Gm08_8530785	8	8530785	17.69208	3.58E-08	0.06271
Blue	Gm08_8530811	8	8530811	20.10977	3.66E-09	0.07088
Blue	Gm08_8530829	8	8530829	18.57137	1.55E-08	0.06785
Blue	Gm08_8530878	8	8530878	55.19205	1.28E-22	0.1884
Blue	Gm08_8531152	8	8531152	19.00712	1.06E-08	0.06758
Blue	Gm08_8531722	8	8531722	24.22907	8.19E-11	0.08382
Blue	Gm08_8531743	8	8531743	24.13434	8.80E-11	0.08327
Blue	Gm08_8531901	8	8531901	22.20761	5.12E-10	0.07352
Blue	Gm08_8531923	8	8531923	23.12033	2.23E-10	0.07669
Blue	Gm08_8532182	8	8532182	22.03825	6.25E-10	0.07732
Blue	Gm08_8532274	8	8532274	27.76097	3.35E-12	0.09755
Blue	Gm08_8532878	8	8532878	24.28658	7.69E-11	0.08108
Blue	Gm08_8534811	8	8534811	20.38276	2.91E-09	0.07607
Blue	Gm08_8535064	8	8535064	29.71944	5.13E-13	0.10116
Blue	Gm08_8535153	8	8535153	25.3641	2.77E-11	0.08557
Blue	Gm08_8535241	8	8535241	23.19438	2.08E-10	0.07693
Blue	Gm08_8535483	8	8535483	25.5343	2.39E-11	0.08679
Blue	Gm08_8535484	8	8535484	24.30714	7.42E-11	0.0833
Blue	Gm08_8535588	8	8535588	19.19006	8.69E-09	0.06681
Blue	Gm08_8536695	8	8536695	21.68484	8.54E-10	0.07441
Blue	Gm08_8537176	8	8537176	20.59159	2.43E-09	0.07828
Blue	Gm08_8537481	8	8537481	28.18356	2.08E-12	0.09285
Blue	Gm08_8537510	8	8537510	26.84976	7.10E-12	0.08775
Blue	Gm08_8537579	8	8537579	20.55903	2.39E-09	0.0694
Blue	Gm08_8538060	8	8538060	22.40543	4.32E-10	0.07802
Blue	Gm08_8538286	8	8538286	40.11873	5.52E-17	0.14937
Blue	Gm08_8538449	8	8538449	24.42789	6.79E-11	0.08322

Blue	Gm08_8539128	8	8539128	53.26584	6.65E-22	0.18816
Blue	Gm08_8539136	8	8539136	23.12617	2.21E-10	0.07812
Blue	Gm08_8539249	8	8539249	21.14493	1.41E-09	0.07947
Blue	Gm08_8539257	8	8539257	22.65579	3.50E-10	0.08459
Blue	Gm08_8539508	8	8539508	22.39059	4.45E-10	0.08061
Blue	Gm08_8539700	8	8539700	19.16649	8.99E-09	0.07274
Blue	Gm08_8540424	8	8540424	20.27011	3.18E-09	0.06968
Blue	Gm08_8540829	8	8540829	17.428	4.56E-08	0.06404
Blue	Gm08_8541020	8	8541020	24.78205	4.82E-11	0.08453
Blue	Gm08_8541224	8	8541224	18.39349	1.86E-08	0.06557
Blue	Gm08_8541531	8	8541531	23.19161	2.17E-10	0.08727
Blue	Gm08_8541533	8	8541533	23.59757	1.52E-10	0.09011
Blue	Gm08_8541663	8	8541663	23.29478	1.90E-10	0.07911
Blue	Gm08_8541967	8	8541967	27.25493	5.11E-12	0.09624
Blue	Gm08_8542721	8	8542721	23.8879	1.15E-10	0.08443
Blue	Gm08_8542855	8	8542855	23.58044	1.48E-10	0.08261
Blue	Gm08_8542910	8	8542910	19.83059	4.81E-09	0.06876
Blue	Gm08_8543284	8	8543284	20.37863	2.85E-09	0.06835
Blue	Gm08_8543287	8	8543287	20.62748	2.26E-09	0.06815
Blue	Gm08_8543674	8	8543674	22.7469	3.26E-10	0.08348
Blue	Gm08_8543708	8	8543708	28.04162	2.62E-12	0.09629
Blue	Gm08_8543723	8	8543723	24.83076	4.78E-11	0.08486
Blue	Gm08_8544856	8	8544856	23.33212	1.85E-10	0.07985
Blue	Gm08_8544857	8	8544857	24.32709	7.67E-11	0.08639
Blue	Gm08_8544869	8	8544869	24.06464	9.66E-11	0.08403
Blue	Gm08_8544870	8	8544870	23.71531	1.34E-10	0.08198
Blue	Gm08_8544920	8	8544920	17.91661	2.83E-08	0.06175
Blue	Gm08_8544921	8	8544921	18.40834	1.80E-08	0.06439
Blue	Gm08_8544931	8	8544931	47.23413	1.32E-19	0.1734
Blue	Gm08_8544941	8	8544941	18.17209	2.23E-08	0.06447
Blue	Gm08_8544945	8	8544945	16.87747	7.64E-08	0.06252
Blue	Gm08_8544951	8	8544951	18.48756	1.67E-08	0.06603
Blue	Gm08_8545043	8	8545043	20.76994	2.05E-09	0.07613
Blue	Gm08_8546329	8	8546329	21.39044	1.14E-09	0.07343
Blue	Gm08_8546381	8	8546381	20.35063	2.93E-09	0.0683
Blue	Gm08_8546496	8	8546496	21.39592	1.09E-09	0.07647
Blue	Gm08_8546538	8	8546538	20.81855	1.92E-09	0.07987
Blue	Gm08_8546690	8	8546690	19.44988	6.90E-09	0.07388
Blue	Gm08_8547836	8	8547836	22.20243	5.35E-10	0.08066
Blue	Gm08_8547881	8	8547881	26.69326	8.61E-12	0.09311
Blue	Gm08_8547902	8	8547902	24.38514	7.08E-11	0.08816
Blue	Gm08_8548478	8	8548478	19.54046	6.32E-09	0.07327
Blue	Gm08_8549536	8	8549536	21.36499	1.17E-09	0.07799
Blue	Gm08_8550166	8	8550166	21.01831	1.61E-09	0.07299
Blue	Gm08_8550222	8	8550222	22.53649	3.84E-10	0.07636
Blue	Gm08_8550815	8	8550815	24.29911	7.66E-11	0.08302

Blue	Gm08_8550903	8	8550903	21.65934	8.80E-10	0.07547
Blue	Gm08_8551421	8	8551421	19.93823	4.39E-09	0.07183
Blue	Gm08_8551437	8	8551437	18.0934	2.47E-08	0.07082
Blue	Gm08_8551458	8	8551458	17.0646	6.45E-08	0.06349
Blue	Gm08_8551462	8	8551462	19.16513	8.98E-09	0.07041
Blue	Gm08_8551560	8	8551560	20.42093	2.80E-09	0.07153
Blue	Gm08_8551678	8	8551678	16.96558	7.10E-08	0.06035
Blue	Gm08_8551807	8	8551807	17.98808	2.74E-08	0.0647
Blue	Gm08_8552406	8	8552406	21.1715	1.39E-09	0.07288
Blue	Gm08_8552667	8	8552667	30.47614	2.78E-13	0.10284
Blue	Gm08_8552680	8	8552680	30.13507	3.84E-13	0.10332
Blue	Gm08_8553022	8	8553022	19.39973	7.22E-09	0.06752
Blue	Gm08_8557526	8	8557526	25.44972	2.72E-11	0.09041
Blue	Gm08_8557749	8	8557749	24.21048	8.23E-11	0.08495
Blue	Gm08_8562604	8	8562604	45.84911	3.81E-19	0.18088
Blue	Gm08_8564702	8	8564702	40.98474	2.53E-17	0.15186
Blue	Gm08_8567208	8	8567208	51.98004	1.91E-21	0.17726
Blue	Gm08_8568732	8	8568732	27.51177	3.93E-12	0.0927
Blue	Gm08_8573698	8	8573698	33.49692	1.82E-14	0.11567
Blue	Gm08_8575427	8	8575427	22.55517	3.99E-10	0.08257
Blue	Gm08_8581777	8	8581777	21.36801	1.14E-09	0.0728
Blue	Gm08_8582311	8	8582311	63.16805	2.02E-25	0.2157
Blue	Gm08_8593015	8	8593015	23.15892	2.15E-10	0.08275
Blue	Gm08_8596080	8	8596080	50.60721	6.47E-21	0.18118
Blue	Gm08_8598389	8	8598389	24.67252	5.36E-11	0.08307
Blue	Gm08_8598614	8	8598614	35.70267	2.54E-15	0.12546
Blue	Gm08_8599062	8	8599062	37.60321	4.94E-16	0.12979
Blue	Gm08_8599104	8	8599104	22.19383	5.51E-10	0.08081
Blue	Gm08_8599749	8	8599749	23.76591	1.24E-10	0.08618
Blue	Gm08_8600110	8	8600110	34.32215	8.56E-15	0.1161
Blue	Gm08_8600112	8	8600112	34.64811	6.40E-15	0.11727
Blue	Gm08_8600577	8	8600577	35.86876	2.25E-15	0.12613
Blue	Gm08_8600731	8	8600731	29.27532	8.22E-13	0.10043
Blue	Gm08_8606073	8	8606073	31.38696	1.28E-13	0.11817
Blue	Gm08_8611170	8	8611170	34.4782	7.72E-15	0.12766
Blue	Gm08_8616114	8	8616114	18.23721	2.15E-08	0.06303
Blue	Gm08_8618655	8	8618655	30.01633	4.06E-13	0.10695
Blue	Gm08_8624758	8	8624758	18.86735	1.19E-08	0.06579
Blue	Gm08_8624935	8	8624935	21.66435	8.78E-10	0.0763
Blue	Gm08_8625219	8	8625219	19.8514	4.66E-09	0.06877
Blue	Gm08_8625732	8	8625732	26.17958	1.38E-11	0.09463
Blue	Gm08_8630161	8	8630161	22.79005	3.13E-10	0.08408
Blue	Gm08_8635529	8	8635529	20.32705	3.08E-09	0.07151
Blue	Gm08_8642278	8	8642278	20.78947	2.01E-09	0.07813
Blue	Gm08_8655544	8	8655544	17.19772	5.80E-08	0.06191
Blue	Gm08_8661207	8	8661207	44.82217	1.04E-18	0.16616

Blue	Gm08_8661940	8	8661940	52.70723	1.19E-21	0.18656
Blue	Gm08_8661946	8	8661946	51.94974	2.27E-21	0.18456
Blue	Gm08_8665831	8	8665831	19.15102	9.10E-09	0.06728
Blue	Gm08_8669224	8	8669224	22.49728	4.04E-10	0.08037
Blue	Gm08_8670168	8	8670168	26.63469	8.60E-12	0.09035
Blue	Gm08_8672494	8	8672494	47.45775	1.08E-19	0.17301
Blue	Gm08_8675132	8	8675132	47.36183	1.22E-19	0.17053
Blue	Gm08_8679805	8	8679805	34.93811	5.35E-15	0.1296
Blue	Gm08_8683339	8	8683339	18.76022	1.29E-08	0.06288
Blue	Gm08_8704007	8	8704007	16.92257	7.42E-08	0.05932
Blue	Gm08_8711592	8	8711592	21.90751	7.06E-10	0.07685
Blue	Gm08_8714742	8	8714742	28.42594	1.76E-12	0.10233
Blue	Gm08_8718333	8	8718333	17.98211	2.71E-08	0.06477
Blue	Gm08_8719983	8	8719983	17.41417	4.67E-08	0.06291
Blue	Gm08_8724028	8	8724028	23.83747	1.20E-10	0.09015
Blue	Gm08_8728517	8	8728517	17.31472	5.15E-08	0.05973
Blue	Gm08_8730779	8	8730779	30.58682	2.48E-13	0.10614
Blue	Gm08_8732105	8	8732105	21.34645	1.19E-09	0.07791
Blue	Gm08_8733115	8	8733115	19.80623	5.01E-09	0.07219
Blue	Gm08_8733180	8	8733180	21.22333	1.36E-09	0.08021
Blue	Gm08_8733296	8	8733296	17.2928	5.19E-08	0.06643
Blue	Gm08_8733318	8	8733318	20.12881	3.64E-09	0.07133
Blue	Gm08_8733852	8	8733852	27.18941	5.50E-12	0.09929
Blue	Gm08_8734062	8	8734062	21.35854	1.14E-09	0.07396
Blue	Gm08_8734345	8	8734345	33.51783	1.83E-14	0.11166
Blue	Gm08_8741243	8	8741243	25.20968	3.45E-11	0.08992
Blue	Gm08_8741992	8	8741992	16.8067	8.24E-08	0.06195
Blue	Gm08_8742487	8	8742487	20.33877	3.03E-09	0.0697
Blue	Gm08_8742890	8	8742890	25.05677	3.89E-11	0.08577
Blue	Gm08_8744275	8	8744275	23.18737	2.08E-10	0.07823
Blue	Gm08_8748456	8	8748456	23.31073	1.91E-10	0.08428
Blue	Gm08_8748463	8	8748463	23.63326	1.43E-10	0.08318
Blue	Gm08_8752677	8	8752677	29.17946	8.75E-13	0.09801
Blue	Gm08_8752816	8	8752816	23.39623	1.82E-10	0.08856
Blue	Gm08_8753400	8	8753400	24.21353	8.45E-11	0.08537
Blue	Gm08_8753446	8	8753446	22.71658	3.37E-10	0.07936
Blue	Gm08_8753556	8	8753556	23.89072	1.09E-10	0.08399
Blue	Gm08_8753670	8	8753670	33.45954	1.77E-14	0.1112
Blue	Gm08_8754364	8	8754364	27.76062	3.26E-12	0.10083
Blue	Gm08_8754420	8	8754420	30.38915	3.03E-13	0.10866
Blue	Gm08_8754534	8	8754534	18.55404	1.57E-08	0.06471
Blue	Gm08_8756149	8	8756149	26.5288	9.82E-12	0.0952
Blue	Gm08_8756368	8	8756368	25.62509	2.15E-11	0.08433
Blue	Gm08_8757269	8	8757269	24.45927	6.46E-11	0.08418
Blue	Gm08_8758861	8	8758861	27.21642	5.43E-12	0.0983
Blue	Gm08_8759543	8	8759543	32.64722	3.81E-14	0.11355

Blue	Gm08_8763923	8	8763923	27.32084	5.02E-12	0.09618
Blue	Gm08_8764778	8	8764778	22.61865	3.57E-10	0.08196
Blue	Gm08_8772458	8	8772458	19.24188	8.52E-09	0.07462
Blue	Gm08_8795074	8	8795074	16.80028	8.08E-08	0.05807
Blue	Gm08_8797373	8	8797373	16.85942	7.80E-08	0.06079
Blue	Gm08_8797990	8	8797990	18.2628	2.08E-08	0.06479
Blue	Gm08_8803261	8	8803261	23.80789	1.18E-10	0.08295
Blue	Gm08_8804658	8	8804658	25.45862	2.74E-11	0.09441
Blue	Gm08_8806382	8	8806382	16.84067	7.93E-08	0.05802
Blue	Gm08_8810936	8	8810936	29.22484	8.80E-13	0.10307
Blue	Gm08_8811797	8	8811797	20.04313	4.06E-09	0.0747
Blue	Gm08_8951476	8	8951476	16.88729	7.54E-08	0.05938
Blue	Gm08_8951494	8	8951494	19.89124	4.47E-09	0.07207
Blue	Gm08_8951547	8	8951547	23.01601	2.47E-10	0.0782
Blue	Gm08_8951607	8	8951607	20.95823	1.61E-09	0.06669
Blue	Gm08_8994913	8	8994913	25.26881	2.99E-11	0.08499
Blue	Gm08_9003171	8	9003171	27.14273	5.72E-12	0.10179
Blue	Gm08_9003237	8	9003237	23.29968	1.97E-10	0.09297
Blue	Gm08_9004627	8	9004627	18.95404	1.11E-08	0.07794
Blue	Gm08_9005247	8	9005247	26.68222	9.12E-12	0.10235
Blue	Gm08_9005430	8	9005430	26.84203	7.44E-12	0.09858
Blue	Gm08_9005432	8	9005432	26.85674	7.39E-12	0.09878
Blue	Gm08_9041378	8	9041378	24.75334	5.11E-11	0.08918
Blue	Gm08_9049801	8	9049801	23.13703	2.23E-10	0.08
Blue	Gm08_9054741	8	9054741	27.18954	5.32E-12	0.09417
Blue	Gm08_9054872	8	9054872	30.70818	2.22E-13	0.10694
Blue	Gm08_9056324	8	9056324	18.2593	2.09E-08	0.06553
Blue	Gm08_9063387	8	9063387	20.04561	3.96E-09	0.06746
Blue	Gm08_9071263	8	9071263	20.3705	3.02E-09	0.07962
Blue	Gm08_9077545	8	9077545	18.48586	1.68E-08	0.06228
Blue	Gm08_9107321	8	9107321	18.47823	1.70E-08	0.06327
Blue	Gm08_9119281	8	9119281	21.57109	9.27E-10	0.07163
Blue	Gm08_9502316	8	9502316	18.41257	1.77E-08	0.06152
Blue	Gm08_9587719	8	9587719	19.0599	9.81E-09	0.06535
Blue	Gm08_9589694	8	9589694	18.70326	1.38E-08	0.06514
Blue	Gm08_9590447	8	9590447	18.50913	1.64E-08	0.06304
Blue	Gm08_9590873	8	9590873	19.97456	4.18E-09	0.06743
Blue	Gm08_9591064	8	9591064	20.04324	3.99E-09	0.07049
Blue	Gm08_9597983	8	9597983	18.28141	2.04E-08	0.06366
Blue	Gm08_9598154	8	9598154	18.19764	2.21E-08	0.06198
Blue	Gm08_9598223	8	9598223	17.10702	6.18E-08	0.05893
Blue	Gm08_9598570	8	9598570	16.89165	7.57E-08	0.06035
Blue	Gm08_9599939	8	9599939	19.97201	4.27E-09	0.07174
Blue	Gm08_9599966	8	9599966	17.56662	4.02E-08	0.06255
Blue	Gm08_9600568	8	9600568	17.14974	5.89E-08	0.05794
Blue	Gm08_9601450	8	9601450	20.28179	3.13E-09	0.06982

Blue	Gm08_9601586	8	9601586	18.02434	2.64E-08	0.06429
Blue	Gm08_9601687	8	9601687	18.90345	1.15E-08	0.06466
Blue	Gm08_9697726	8	9697726	17.23494	5.48E-08	0.05966
Blue	Gm08_9697744	8	9697744	17.41381	4.59E-08	0.06001
Blue	Gm08_9699064	8	9699064	18.73085	1.31E-08	0.06212
Blue	Gm08_9699873	8	9699873	17.02187	6.73E-08	0.06079
Blue	Gm08_9908781	8	9908781	19.56704	6.17E-09	0.07047
Blue	Gm08_9909354	8	9909354	17.11408	6.20E-08	0.06144
Blue	Gm08_9957884	8	9957884	20.51928	2.56E-09	0.06845
Blue	Gm08_9957906	8	9957906	20.46956	2.67E-09	0.06856
Luminosity	Gm06_18887736	6	18887736	18.4095	1.80E-08	0.06534
Luminosity	Gm08_7820505	8	7820505	18.40502	1.85E-08	0.06717
Luminosity	Gm08_7880131	8	7880131	21.02841	1.58E-09	0.06925
Luminosity	Gm08_7890026	8	7890026	16.93845	7.25E-08	0.05641
Luminosity	Gm08_7989738	8	7989738	18.65782	1.46E-08	0.06754
Luminosity	Gm08_8000375	8	8000375	28.54258	1.64E-12	0.10189
Luminosity	Gm08_8000994	8	8000994	34.97497	4.86E-15	0.11916
Luminosity	Gm08_8001123	8	8001123	28.41146	1.87E-12	0.10042
Luminosity	Gm08_8001396	8	8001396	24.51585	6.17E-11	0.0825
Luminosity	Gm08_8002535	8	8002535	20.81945	1.97E-09	0.07568
Luminosity	Gm08_8006736	8	8006736	18.14962	2.32E-08	0.06149
Luminosity	Gm08_8008583	8	8008583	27.52605	4.05E-12	0.09555
Luminosity	Gm08_8019129	8	8019129	31.7817	8.18E-14	0.10601
Luminosity	Gm08_8024427	8	8024427	22.04419	6.31E-10	0.08504
Luminosity	Gm08_8031082	8	8031082	30.5077	2.74E-13	0.11224
Luminosity	Gm08_8042287	8	8042287	18.58602	1.55E-08	0.06689
Luminosity	Gm08_8047879	8	8047879	21.30242	1.25E-09	0.07615
Luminosity	Gm08_8047994	8	8047994	19.34034	7.53E-09	0.06631
Luminosity	Gm08_8048235	8	8048235	16.76425	8.62E-08	0.06333
Luminosity	Gm08_8052282	8	8052282	32.76635	3.66E-14	0.11605
Luminosity	Gm08_8053376	8	8053376	92.77766	2.19E-20	0.16023
Luminosity	Gm08_8053477	8	8053477	40.57144	3.56E-17	0.13973
Luminosity	Gm08_8055772	8	8055772	33.08281	2.80E-14	0.12223
Luminosity	Gm08_8056510	8	8056510	32.75063	3.57E-14	0.123
Luminosity	Gm08_8059184	8	8059184	33.19203	2.54E-14	0.11774
Luminosity	Gm08_8062435	8	8062435	37.46658	5.74E-16	0.13224
Luminosity	Gm08_8065674	8	8065674	38.03677	3.14E-16	0.13186
Luminosity	Gm08_8066335	8	8066335	37.62152	4.55E-16	0.13127
Luminosity	Gm08_8066589	8	8066589	30.5065	2.77E-13	0.10833
Luminosity	Gm08_8067540	8	8067540	17.89559	2.92E-08	0.06113
Luminosity	Gm08_8069365	8	8069365	33.94288	1.25E-14	0.12162
Luminosity	Gm08_8081879	8	8081879	36.2614	1.56E-15	0.13056
Luminosity	Gm08_8083031	8	8083031	33.9738	1.22E-14	0.11768
Luminosity	Gm08_8088815	8	8088815	21.99418	6.68E-10	0.0853
Luminosity	Gm08_8092329	8	8092329	42.1026	9.79E-18	0.14888
Luminosity	Gm08_8095794	8	8095794	34.68396	6.51E-15	0.11762

Luminosity	Gm08_8096014	8	8096014	26.94116	6.90E-12	0.09475
Luminosity	Gm08_8099353	8	8099353	26.59681	9.12E-12	0.09123
Luminosity	Gm08_8100194	8	8100194	19.07425	1.01E-08	0.07338
Luminosity	Gm08_8101680	8	8101680	21.59648	9.39E-10	0.08194
Luminosity	Gm08_8110318	8	8110318	31.14652	1.53E-13	0.1084
Luminosity	Gm08_8157061	8	8157061	52.20494	1.81E-21	0.18384
Luminosity	Gm08_8172987	8	8172987	30.29952	3.42E-13	0.10333
Luminosity	Gm08_8176120	8	8176120	21.79958	7.76E-10	0.08245
Luminosity	Gm08_8188522	8	8188522	27.4596	4.26E-12	0.0978
Luminosity	Gm08_8188523	8	8188523	27.10764	5.93E-12	0.09593
Luminosity	Gm08_8190124	8	8190124	34.48835	7.72E-15	0.11885
Luminosity	Gm08_8190497	8	8190497	34.78458	6.02E-15	0.12678
Luminosity	Gm08_8190546	8	8190546	40.08475	5.54E-17	0.13957
Luminosity	Gm08_8191127	8	8191127	62.79542	2.14E-25	0.21673
Luminosity	Gm08_8191455	8	8191455	27.34191	4.88E-12	0.09934
Luminosity	Gm08_8191743	8	8191743	32.56617	4.24E-14	0.11015
Luminosity	Gm08_8192436	8	8192436	28.83214	1.29E-12	0.10661
Luminosity	Gm08_8193398	8	8193398	31.32039	1.29E-13	0.11394
Luminosity	Gm08_8193403	8	8193403	31.77758	8.79E-14	0.11871
Luminosity	Gm08_8193696	8	8193696	31.98231	6.80E-14	0.11156
Luminosity	Gm08_8194523	8	8194523	24.92591	4.36E-11	0.08899
Luminosity	Gm08_8195742	8	8195742	66.70658	1.22E-26	0.23046
Luminosity	Gm08_8196111	8	8196111	36.30969	1.52E-15	0.12598
Luminosity	Gm08_8196565	8	8196565	36.51933	1.17E-15	0.12586
Luminosity	Gm08_8196909	8	8196909	32.69158	3.96E-14	0.11463
Luminosity	Gm08_8197293	8	8197293	60.41454	2.10E-24	0.22501
Luminosity	Gm08_8197709	8	8197709	33.48507	1.76E-14	0.11807
Luminosity	Gm08_8198228	8	8198228	38.21414	2.91E-16	0.1317
Luminosity	Gm08_8198246	8	8198246	37.84416	4.04E-16	0.12678
Luminosity	Gm08_8199605	8	8199605	36.0437	1.86E-15	0.12736
Luminosity	Gm08_8199626	8	8199626	67.35092	5.96E-27	0.23798
Luminosity	Gm08_8199882	8	8199882	76.08849	5.56E-30	0.25836
Luminosity	Gm08_8200063	8	8200063	34.50749	7.12E-15	0.11603
Luminosity	Gm08_8200230	8	8200230	68.14012	2.89E-27	0.22892
Luminosity	Gm08_8200825	8	8200825	73.15002	4.17E-29	0.24257
Luminosity	Gm08_8201008	8	8201008	63.2131	1.82E-25	0.22599
Luminosity	Gm08_8201272	8	8201272	36.3183	1.32E-15	0.12464
Luminosity	Gm08_8201476	8	8201476	77.23203	1.88E-30	0.25061
Luminosity	Gm08_8201501	8	8201501	76.44534	3.93E-30	0.2568
Luminosity	Gm08_8201849	8	8201849	72.72376	6.58E-29	0.24314
Luminosity	Gm08_8202357	8	8202357	61.39159	6.60E-25	0.20079
Luminosity	Gm08_8202427	8	8202427	38.0167	3.07E-16	0.12527
Luminosity	Gm08_8202907	8	8202907	29.96804	4.35E-13	0.1087
Luminosity	Gm08_8203074	8	8203074	58.88117	5.97E-24	0.21411
Luminosity	Gm08_8203593	8	8203593	34.13155	1.01E-14	0.11599
Luminosity	Gm08_8204027	8	8204027	29.51355	6.89E-13	0.11246

Luminosity	Gm08_8204715	8	8204715	29.90293	4.41E-13	0.10092
Luminosity	Gm08_8204961	8	8204961	64.70499	5.99E-26	0.23112
Luminosity	Gm08_8205513	8	8205513	40.2905	4.75E-17	0.13614
Luminosity	Gm08_8205579	8	8205579	38.30222	2.52E-16	0.12885
Luminosity	Gm08_8205602	8	8205602	36.2329	1.65E-15	0.12553
Luminosity	Gm08_8205748	8	8205748	34.63184	6.87E-15	0.12186
Luminosity	Gm08_8209460	8	8209460	28.72661	1.34E-12	0.10224
Luminosity	Gm08_8210287	8	8210287	17.98263	2.71E-08	0.06712
Luminosity	Gm08_8210825	8	8210825	31.15818	1.45E-13	0.10334
Luminosity	Gm08_8214801	8	8214801	30.16672	3.74E-13	0.10951
Luminosity	Gm08_8216666	8	8216666	56.93648	3.42E-23	0.21568
Luminosity	Gm08_8217631	8	8217631	25.81203	1.82E-11	0.0879
Luminosity	Gm08_8230569	8	8230569	22.8989	2.71E-10	0.07284
Luminosity	Gm08_8232667	8	8232667	27.11013	5.78E-12	0.09316
Luminosity	Gm08_8232993	8	8232993	36.78968	8.68E-16	0.11787
Luminosity	Gm08_8233645	8	8233645	32.76734	3.42E-14	0.1093
Luminosity	Gm08_8236097	8	8236097	23.60062	1.50E-10	0.08723
Luminosity	Gm08_8236244	8	8236244	31.61707	9.44E-14	0.11104
Luminosity	Gm08_8236763	8	8236763	30.34079	2.94E-13	0.10354
Luminosity	Gm08_8236862	8	8236862	30.89328	1.82E-13	0.10745
Luminosity	Gm08_8236894	8	8236894	35.62937	2.74E-15	0.11974
Luminosity	Gm08_8237654	8	8237654	35.75588	2.35E-15	0.12369
Luminosity	Gm08_8238668	8	8238668	28.49906	1.64E-12	0.09972
Luminosity	Gm08_8238813	8	8238813	26.12576	1.49E-11	0.1009
Luminosity	Gm08_8241224	8	8241224	64.00901	1.04E-25	0.24272
Luminosity	Gm08_8241247	8	8241247	24.28486	8.00E-11	0.09364
Luminosity	Gm08_8242850	8	8242850	67.1734	8.01E-27	0.23178
Luminosity	Gm08_8243491	8	8243491	62.5475	3.62E-25	0.22408
Luminosity	Gm08_8244136	8	8244136	78.4942	7.05E-31	0.27371
Luminosity	Gm08_8245354	8	8245354	25.79894	1.94E-11	0.08838
Luminosity	Gm08_8245529	8	8245529	79.45652	3.26E-31	0.26213
Luminosity	Gm08_8259822	8	8259822	74.93189	1.04E-29	0.23718
Luminosity	Gm08_8267574	8	8267574	61.25694	1.01E-24	0.21056
Luminosity	Gm08_8267935	8	8267935	20.31593	3.07E-09	0.07449
Luminosity	Gm08_8270790	8	8270790	22.92381	2.76E-10	0.08176
Luminosity	Gm08_8270797	8	8270797	21.48194	1.05E-09	0.07843
Luminosity	Gm08_8285621	8	8285621	25.4998	2.61E-11	0.09703
Luminosity	Gm08_8285888	8	8285888	71.53618	2.18E-28	0.24433
Luminosity	Gm08_8288351	8	8288351	27.89187	2.79E-12	0.09206
Luminosity	Gm08_8303757	8	8303757	24.05873	9.48E-11	0.08441
Luminosity	Gm08_8303996	8	8303996	22.73702	3.30E-10	0.08085
Luminosity	Gm08_8306163	8	8306163	76.71503	4.47E-30	0.27839
Luminosity	Gm08_8306458	8	8306458	33.36047	2.03E-14	0.11038
Luminosity	Gm08_8311989	8	8311989	67.81604	4.14E-27	0.23473
Luminosity	Gm08_8312343	8	8312343	53.84891	3.66E-22	0.18427
Luminosity	Gm08_8313215	8	8313215	71.69786	1.45E-28	0.24382

Luminosity	Gm08_8313241	8	8313241	66.40113	1.31E-26	0.23665
Luminosity	Gm08_8313428	8	8313428	48.83545	3.22E-20	0.1836
Luminosity	Gm08_8313640	8	8313640	51.60466	2.93E-21	0.18537
Luminosity	Gm08_8314161	8	8314161	26.74375	7.87E-12	0.09072
Luminosity	Gm08_8314707	8	8314707	61.81384	6.09E-25	0.21519
Luminosity	Gm08_8314788	8	8314788	62.38998	3.21E-25	0.22168
Luminosity	Gm08_8314827	8	8314827	62.48315	2.81E-25	0.22
Luminosity	Gm08_8314987	8	8314987	56.62677	4.31E-23	0.20699
Luminosity	Gm08_8316860	8	8316860	61.20961	1.01E-24	0.21797
Luminosity	Gm08_8317597	8	8317597	26.51781	9.83E-12	0.08907
Luminosity	Gm08_8318754	8	8318754	18.60101	1.54E-08	0.0636
Luminosity	Gm08_8318759	8	8318759	33.53314	1.90E-14	0.11518
Luminosity	Gm08_8318820	8	8318820	18.98609	1.09E-08	0.06575
Luminosity	Gm08_8318837	8	8318837	70.42604	6.17E-28	0.24154
Luminosity	Gm08_8319060	8	8319060	60.2512	2.40E-24	0.22162
Luminosity	Gm08_8319085	8	8319085	55.31768	1.30E-22	0.20505
Luminosity	Gm08_8319087	8	8319087	53.82768	4.79E-22	0.20391
Luminosity	Gm08_8319115	8	8319115	53.53819	5.65E-22	0.19738
Luminosity	Gm08_8319732	8	8319732	62.35189	4.08E-25	0.22573
Luminosity	Gm08_8319744	8	8319744	62.77583	2.78E-25	0.22509
Luminosity	Gm08_8319787	8	8319787	63.14467	2.02E-25	0.23242
Luminosity	Gm08_8319795	8	8319795	63.87709	1.01E-25	0.22917
Luminosity	Gm08_8319817	8	8319817	62.21477	4.43E-25	0.22255
Luminosity	Gm08_8319867	8	8319867	51.77505	2.61E-21	0.19997
Luminosity	Gm08_8322185	8	8322185	67.10463	8.85E-27	0.23213
Luminosity	Gm08_8322357	8	8322357	65.81129	2.09E-26	0.21233
Luminosity	Gm08_8323966	8	8323966	24.33793	7.21E-11	0.08363
Luminosity	Gm08_8323971	8	8323971	65.1186	3.67E-26	0.22037
Luminosity	Gm08_8323983	8	8323983	61.15988	9.46E-25	0.20685
Luminosity	Gm08_8324392	8	8324392	65.23152	2.75E-26	0.21063
Luminosity	Gm08_8328261	8	8328261	69.72404	9.25E-28	0.25121
Luminosity	Gm08_8329538	8	8329538	22.97248	2.61E-10	0.08461
Luminosity	Gm08_8346238	8	8346238	19.41807	7.10E-09	0.0669
Luminosity	Gm08_8354601	8	8354601	32.05082	6.76E-14	0.11393
Luminosity	Gm08_8359499	8	8359499	23.96143	9.74E-11	0.07989
Luminosity	Gm08_8360663	8	8360663	40.67379	2.91E-17	0.14177
Luminosity	Gm08_8364457	8	8364457	27.85671	2.78E-12	0.09693
Luminosity	Gm08_8364601	8	8364601	19.21721	8.41E-09	0.06794
Luminosity	Gm08_8368519	8	8368519	32.94131	2.94E-14	0.10904
Luminosity	Gm08_8368552	8	8368552	47.51718	7.97E-20	0.15993
Luminosity	Gm08_8371230	8	8371230	75.84068	6.58E-30	0.24628
Luminosity	Gm08_8373581	8	8373581	97.23577	2.37E-37	0.32903
Luminosity	Gm08_8374519	8	8374519	83.70542	1.75E-32	0.3002
Luminosity	Gm08_8374643	8	8374643	71.46052	2.78E-28	0.25103
Luminosity	Gm08_8374655	8	8374655	42.22489	8.68E-18	0.14459
Luminosity	Gm08_8374738	8	8374738	57.89178	1.62E-23	0.21769

Luminosity	Gm08_8374743	8	8374743	19.7977	5.02E-09	0.07315
Luminosity	Gm08_8375080	8	8375080	28.97209	1.05E-12	0.10048
Luminosity	Gm08_8375124	8	8375124	33.58928	1.70E-14	0.11917
Luminosity	Gm08_8375522	8	8375522	35.17304	3.98E-15	0.12807
Luminosity	Gm08_8375603	8	8375603	44.847	8.24E-19	0.15213
Luminosity	Gm08_8375666	8	8375666	64.38854	4.48E-26	0.20702
Luminosity	Gm08_8375961	8	8375961	23.41571	1.64E-10	0.07393
Luminosity	Gm08_8376085	8	8376085	64.45462	5.99E-26	0.21411
Luminosity	Gm08_8377404	8	8377404	37.64935	4.54E-16	0.1323
Luminosity	Gm08_8377783	8	8377783	80.93716	1.62E-31	0.30673
Luminosity	Gm08_8378225	8	8378225	42.61032	6.74E-18	0.15692
Luminosity	Gm08_8379915	8	8379915	35.62648	2.60E-15	0.11635
Luminosity	Gm08_8380062	8	8380062	34.51964	6.31E-15	0.10941
Luminosity	Gm08_8380544	8	8380544	33.21091	2.09E-14	0.10842
Luminosity	Gm08_8380771	8	8380771	31.54335	9.76E-14	0.11188
Luminosity	Gm08_8380778	8	8380778	28.26963	1.90E-12	0.10081
Luminosity	Gm08_8380797	8	8380797	29.82166	4.66E-13	0.10067
Luminosity	Gm08_8380961	8	8380961	33.86582	1.21E-14	0.11375
Luminosity	Gm08_8380988	8	8380988	30.55622	2.43E-13	0.1046
Luminosity	Gm08_8381058	8	8381058	90.41144	6.21E-35	0.29581
Luminosity	Gm08_8381111	8	8381111	36.74733	8.96E-16	0.11897
Luminosity	Gm08_8381483	8	8381483	35.07697	3.82E-15	0.10756
Luminosity	Gm08_8381494	8	8381494	34.57083	5.96E-15	0.10581
Luminosity	Gm08_8381764	8	8381764	88.80802	1.59E-34	0.27664
Luminosity	Gm08_8390797	8	8390797	99.92015	1.58E-38	0.29016
Luminosity	Gm08_8391476	8	8391476	20.62502	2.08E-09	0.0611
Luminosity	Gm08_8391589	8	8391589	21.18083	1.25E-09	0.06428
Luminosity	Gm08_8391636	8	8391636	23.5754	1.41E-10	0.075
Luminosity	Gm08_8391703	8	8391703	25.8592	1.55E-11	0.07705
Luminosity	Gm08_8392065	8	8392065	22.76483	2.72E-10	0.0658
Luminosity	Gm08_8392089	8	8392089	21.28533	1.09E-09	0.06077
Luminosity	Gm08_8392458	8	8392458	20.1536	3.16E-09	0.0586
Luminosity	Gm08_8392597	8	8392597	43.85502	8.34E-11	0.07378
Luminosity	Gm08_8392883	8	8392883	19.6759	5.08E-09	0.05957
Luminosity	Gm08_8393576	8	8393576	68.92477	8.60E-28	0.21254
Luminosity	Gm08_8393771	8	8393771	24.37352	6.96E-11	0.08164
Luminosity	Gm08_8393781	8	8393781	22.87475	2.90E-10	0.08251
Luminosity	Gm08_8394768	8	8394768	25.46181	2.47E-11	0.08212
Luminosity	Gm08_8394915	8	8394915	96.06305	5.98E-37	0.31559
Luminosity	Gm08_8395520	8	8395520	20.61691	2.21E-09	0.06864
Luminosity	Gm08_8398559	8	8398559	105.2274	7.60E-40	0.35571
Luminosity	Gm08_8399515	8	8399515	98.36154	8.94E-38	0.32686
Luminosity	Gm08_8399983	8	8399983	19.37277	7.11E-09	0.06657
Luminosity	Gm08_8400595	8	8400595	105.7362	4.42E-40	0.34311
Luminosity	Gm08_8402470	8	8402470	38.32203	1.15E-09	0.0664
Luminosity	Gm08_8402471	8	8402471	38.13163	1.27E-09	0.06546

Luminosity	Gm08_8420033	8	8420033	91.05015	5.02E-35	0.31815
Luminosity	Gm08_8421326	8	8421326	18.09236	2.50E-08	0.06591
Luminosity	Gm08_8421496	8	8421496	19.39884	7.37E-09	0.07227
Luminosity	Gm08_8431993	8	8431993	19.10216	9.52E-09	0.0719
Luminosity	Gm08_8438870	8	8438870	90.1358	1.58E-34	0.32594
Luminosity	Gm08_8438876	8	8438876	34.40821	8.64E-15	0.12269
Luminosity	Gm08_8438936	8	8438936	37.43026	5.79E-16	0.13379
Luminosity	Gm08_8439073	8	8439073	90.71582	1.06E-34	0.32515
Luminosity	Gm08_8457731	8	8457731	27.71207	3.36E-12	0.09283
Luminosity	Gm08_8458705	8	8458705	22.35341	4.88E-10	0.08931
Luminosity	Gm08_8473040	8	8473040	17.51668	4.17E-08	0.05871
Luminosity	Gm08_8473066	8	8473066	18.66363	1.43E-08	0.06539
Luminosity	Gm08_8473075	8	8473075	17.87158	3.01E-08	0.06247
Luminosity	Gm08_8473115	8	8473115	17.32604	4.92E-08	0.05629
Luminosity	Gm08_8473117	8	8473117	17.0878	6.14E-08	0.05562
Luminosity	Gm08_8473145	8	8473145	17.11946	6.00E-08	0.0586
Luminosity	Gm08_8473227	8	8473227	83.40847	2.27E-32	0.29224
Luminosity	Gm08_8473662	8	8473662	22.42946	4.34E-10	0.08044
Luminosity	Gm08_8508518	8	8508518	17.99005	2.67E-08	0.06095
Luminosity	Gm08_8508773	8	8508773	17.78363	3.23E-08	0.05932
Luminosity	Gm08_8508776	8	8508776	17.78562	3.23E-08	0.05927
Luminosity	Gm08_8509645	8	8509645	21.90471	6.90E-10	0.07836
Luminosity	Gm08_8509775	8	8509775	18.61167	1.49E-08	0.06317
Luminosity	Gm08_8513329	8	8513329	64.23646	5.81E-26	0.20785
Luminosity	Gm08_8513330	8	8513330	65.6476	1.86E-26	0.21363
Luminosity	Gm08_8513350	8	8513350	41.93892	8.60E-18	0.13312
Luminosity	Gm08_8513390	8	8513390	66.21727	7.59E-27	0.20614
Luminosity	Gm08_8513442	8	8513442	64.65327	2.06E-26	0.19239
Luminosity	Gm08_8526593	8	8526593	60.9985	1.06E-24	0.21465
Luminosity	Gm08_8530246	8	8530246	21.60949	9.17E-10	0.07383
Luminosity	Gm08_8530715	8	8530715	36.03229	1.78E-15	0.11861
Luminosity	Gm08_8530811	8	8530811	16.90069	7.44E-08	0.05798
Luminosity	Gm08_8530878	8	8530878	63.26399	1.63E-25	0.21496
Luminosity	Gm08_8531722	8	8531722	19.21894	8.52E-09	0.06716
Luminosity	Gm08_8531743	8	8531743	19.12998	9.17E-09	0.06683
Luminosity	Gm08_8531901	8	8531901	22.89034	2.72E-10	0.076
Luminosity	Gm08_8531923	8	8531923	22.98381	2.53E-10	0.07667
Luminosity	Gm08_8532182	8	8532182	22.36446	4.62E-10	0.07911
Luminosity	Gm08_8532274	8	8532274	36.04748	2.03E-15	0.12695
Luminosity	Gm08_8532878	8	8532878	20.77655	1.98E-09	0.06925
Luminosity	Gm08_8535064	8	8535064	35.91009	1.97E-15	0.11978
Luminosity	Gm08_8535153	8	8535153	21.18493	1.32E-09	0.06973
Luminosity	Gm08_8535241	8	8535241	17.44922	4.43E-08	0.05726
Luminosity	Gm08_8535483	8	8535483	20.97335	1.62E-09	0.07026
Luminosity	Gm08_8535484	8	8535484	19.42977	6.88E-09	0.06551
Luminosity	Gm08_8536695	8	8536695	18.36409	1.89E-08	0.06287

Luminosity	Gm08_8537176	8	8537176	18.75091	1.35E-08	0.06871
Luminosity	Gm08_8537481	8	8537481	20.81808	1.86E-09	0.06911
Luminosity	Gm08_8537510	8	8537510	20.09572	3.66E-09	0.06622
Luminosity	Gm08_8537579	8	8537579	17.23694	5.39E-08	0.05722
Luminosity	Gm08_8538060	8	8538060	16.70381	8.95E-08	0.05802
Luminosity	Gm08_8538286	8	8538286	48.71162	3.40E-20	0.17772
Luminosity	Gm08_8538449	8	8538449	18.94013	1.10E-08	0.06409
Luminosity	Gm08_8539128	8	8539128	59.50133	3.70E-24	0.21034
Luminosity	Gm08_8539136	8	8539136	18.05958	2.49E-08	0.06067
Luminosity	Gm08_8539249	8	8539249	16.84823	7.88E-08	0.06048
Luminosity	Gm08_8539257	8	8539257	19.41445	7.12E-09	0.06994
Luminosity	Gm08_8539508	8	8539508	16.97088	7.02E-08	0.05996
Luminosity	Gm08_8540424	8	8540424	18.48963	1.68E-08	0.06191
Luminosity	Gm08_8541020	8	8541020	20.91899	1.72E-09	0.07203
Luminosity	Gm08_8541531	8	8541531	19.69348	5.56E-09	0.07256
Luminosity	Gm08_8541533	8	8541533	19.60864	6.08E-09	0.07388
Luminosity	Gm08_8541663	8	8541663	20.40201	2.78E-09	0.06789
Luminosity	Gm08_8541967	8	8541967	24.8575	4.57E-11	0.08497
Luminosity	Gm08_8542721	8	8542721	18.91471	1.15E-08	0.06472
Luminosity	Gm08_8542855	8	8542855	17.81756	3.16E-08	0.06334
Luminosity	Gm08_8543284	8	8543284	17.34819	4.88E-08	0.05638
Luminosity	Gm08_8543287	8	8543287	18.04426	2.53E-08	0.05797
Luminosity	Gm08_8543674	8	8543674	21.27643	1.27E-09	0.07644
Luminosity	Gm08_8543708	8	8543708	25.75267	2.09E-11	0.08829
Luminosity	Gm08_8543723	8	8543723	23.17954	2.18E-10	0.07816
Luminosity	Gm08_8544856	8	8544856	20.12859	3.62E-09	0.06838
Luminosity	Gm08_8544857	8	8544857	20.53984	2.53E-09	0.0726
Luminosity	Gm08_8544869	8	8544869	21.73405	8.29E-10	0.07565
Luminosity	Gm08_8544870	8	8544870	21.78715	7.92E-10	0.07428
Luminosity	Gm08_8544921	8	8544921	16.845	7.86E-08	0.058
Luminosity	Gm08_8544931	8	8544931	48.37495	5.01E-20	0.17863
Luminosity	Gm08_8545043	8	8545043	17.12932	6.14E-08	0.06227
Luminosity	Gm08_8546329	8	8546329	18.23809	2.16E-08	0.06253
Luminosity	Gm08_8546496	8	8546496	17.0519	6.41E-08	0.05947
Luminosity	Gm08_8547836	8	8547836	17.36368	4.88E-08	0.06239
Luminosity	Gm08_8547881	8	8547881	21.80978	7.66E-10	0.07458
Luminosity	Gm08_8547902	8	8547902	17.31095	5.10E-08	0.06082
Luminosity	Gm08_8549536	8	8549536	17.31965	5.09E-08	0.06253
Luminosity	Gm08_8550166	8	8550166	18.31211	2.01E-08	0.06266
Luminosity	Gm08_8550222	8	8550222	17.66008	3.64E-08	0.05914
Luminosity	Gm08_8550815	8	8550815	21.48188	1.03E-09	0.07292
Luminosity	Gm08_8550903	8	8550903	17.48925	4.32E-08	0.06033
Luminosity	Gm08_8551421	8	8551421	16.76399	8.59E-08	0.05879
Luminosity	Gm08_8552667	8	8552667	22.80316	3.05E-10	0.07594
Luminosity	Gm08_8552680	8	8552680	24.82147	4.80E-11	0.08367
Luminosity	Gm08_8557526	8	8557526	19.79213	5.04E-09	0.06957

Luminosity	Gm08_8557749	8	8557749	19.68512	5.47E-09	0.06895
Luminosity	Gm08_8562604	8	8562604	51.73255	2.57E-21	0.19893
Luminosity	Gm08_8564702	8	8564702	48.7697	3.11E-20	0.17543
Luminosity	Gm08_8567208	8	8567208	56.86206	3.19E-23	0.1911
Luminosity	Gm08_8568732	8	8568732	21.9631	6.48E-10	0.07424
Luminosity	Gm08_8573698	8	8573698	41.8392	1.17E-17	0.14164
Luminosity	Gm08_8575427	8	8575427	18.08019	2.54E-08	0.06499
Luminosity	Gm08_8581777	8	8581777	17.36121	4.85E-08	0.05785
Luminosity	Gm08_8582311	8	8582311	70.87453	4.11E-28	0.24022
Luminosity	Gm08_8593015	8	8593015	28.64477	1.42E-12	0.10161
Luminosity	Gm08_8596080	8	8596080	56.18823	6.00E-23	0.20455
Luminosity	Gm08_8598389	8	8598389	20.4261	2.73E-09	0.06716
Luminosity	Gm08_8598614	8	8598614	45.69968	4.10E-19	0.16039
Luminosity	Gm08_8599062	8	8599062	43.54177	2.79E-18	0.15121
Luminosity	Gm08_8599104	8	8599104	18.37769	1.91E-08	0.06639
Luminosity	Gm08_8599749	8	8599749	30.28807	3.25E-13	0.10823
Luminosity	Gm08_8600110	8	8600110	37.74206	4.12E-16	0.12744
Luminosity	Gm08_8600112	8	8600112	38.27207	2.58E-16	0.12933
Luminosity	Gm08_8600577	8	8600577	40.03382	5.79E-17	0.14007
Luminosity	Gm08_8600731	8	8600731	35.74135	2.52E-15	0.12405
Luminosity	Gm08_8606073	8	8606073	29.67208	5.97E-13	0.11033
Luminosity	Gm08_8611170	8	8611170	43.36777	3.18E-18	0.15973
Luminosity	Gm08_8616114	8	8616114	17.81246	3.21E-08	0.06213
Luminosity	Gm08_8618655	8	8618655	35.70785	2.48E-15	0.12428
Luminosity	Gm08_8624758	8	8624758	19.93867	4.38E-09	0.06882
Luminosity	Gm08_8624935	8	8624935	17.60348	3.89E-08	0.06122
Luminosity	Gm08_8625732	8	8625732	31.67396	9.59E-14	0.11376
Luminosity	Gm08_8630161	8	8630161	21.54519	9.90E-10	0.07907
Luminosity	Gm08_8635529	8	8635529	18.47025	1.74E-08	0.06465
Luminosity	Gm08_8642278	8	8642278	27.44063	4.49E-12	0.10177
Luminosity	Gm08_8655544	8	8655544	22.00503	6.60E-10	0.07946
Luminosity	Gm08_8661143	8	8661143	17.56004	4.06E-08	0.06448
Luminosity	Gm08_8661207	8	8661207	47.18489	1.38E-19	0.17664
Luminosity	Gm08_8661940	8	8661940	59.43006	4.53E-24	0.20682
Luminosity	Gm08_8661946	8	8661946	58.56829	9.28E-24	0.20407
Luminosity	Gm08_8665831	8	8665831	23.84411	1.17E-10	0.0847
Luminosity	Gm08_8669224	8	8669224	29.58955	6.17E-13	0.10741
Luminosity	Gm08_8670168	8	8670168	33.46639	1.76E-14	0.11132
Luminosity	Gm08_8672494	8	8672494	45.51025	5.65E-19	0.16675
Luminosity	Gm08_8675132	8	8675132	47.31481	1.27E-19	0.16914
Luminosity	Gm08_8679805	8	8679805	37.0463	8.31E-16	0.13736
Luminosity	Gm08_8683339	8	8683339	22.04997	6.01E-10	0.07352
Luminosity	Gm08_8693593	8	8693593	17.23937	5.40E-08	0.06156
Luminosity	Gm08_8694446	8	8694446	19.03757	9.83E-09	0.06339
Luminosity	Gm08_8704007	8	8704007	20.13353	3.67E-09	0.06895
Luminosity	Gm08_8711592	8	8711592	25.88965	1.81E-11	0.08864

Luminosity	Gm08_8714742	8	8714742	30.09166	3.89E-13	0.1076
Luminosity	Gm08_8718333	8	8718333	18.65049	1.45E-08	0.06695
Luminosity	Gm08_8719983	8	8719983	18.82581	1.24E-08	0.06584
Luminosity	Gm08_8724028	8	8724028	21.78674	7.93E-10	0.08222
Luminosity	Gm08_8728517	8	8728517	21.61747	9.30E-10	0.07284
Luminosity	Gm08_8730779	8	8730779	29.48385	6.71E-13	0.10186
Luminosity	Gm08_8731711	8	8731711	20.1869	3.50E-09	0.06751
Luminosity	Gm08_8732105	8	8732105	24.67245	5.54E-11	0.08849
Luminosity	Gm08_8733115	8	8733115	20.42391	2.82E-09	0.07459
Luminosity	Gm08_8733180	8	8733180	25.8554	1.94E-11	0.09475
Luminosity	Gm08_8733296	8	8733296	19.88454	4.57E-09	0.0751
Luminosity	Gm08_8733318	8	8733318	22.5896	3.70E-10	0.08131
Luminosity	Gm08_8733852	8	8733852	26.03414	1.58E-11	0.0972
Luminosity	Gm08_8734062	8	8734062	22.53668	3.83E-10	0.07769
Luminosity	Gm08_8734345	8	8734345	31.30259	1.33E-13	0.10284
Luminosity	Gm08_8739475	8	8739475	17.24687	5.47E-08	0.06132
Luminosity	Gm08_8741243	8	8741243	35.13584	4.60E-15	0.12526
Luminosity	Gm08_8741992	8	8741992	26.88107	7.29E-12	0.10025
Luminosity	Gm08_8742487	8	8742487	23.43311	1.73E-10	0.07994
Luminosity	Gm08_8742890	8	8742890	35.50177	3.21E-15	0.12302
Luminosity	Gm08_8744275	8	8744275	33.49615	1.75E-14	0.1119
Luminosity	Gm08_8748456	8	8748456	22.11382	5.77E-10	0.07829
Luminosity	Gm08_8748463	8	8748463	22.07341	6.05E-10	0.07707
Luminosity	Gm08_8752677	8	8752677	28.14781	2.23E-12	0.09394
Luminosity	Gm08_8752816	8	8752816	34.19075	1.07E-14	0.13029
Luminosity	Gm08_8753400	8	8753400	33.96909	1.26E-14	0.11836
Luminosity	Gm08_8753446	8	8753446	32.16087	6.37E-14	0.11199
Luminosity	Gm08_8753556	8	8753556	33.39525	1.93E-14	0.11463
Luminosity	Gm08_8753670	8	8753670	31.73587	8.33E-14	0.10339
Luminosity	Gm08_8754364	8	8754364	33.2404	2.35E-14	0.11968
Luminosity	Gm08_8754420	8	8754420	37.46069	5.59E-16	0.1358
Luminosity	Gm08_8754534	8	8754534	26.35762	1.13E-11	0.09382
Luminosity	Gm08_8756149	8	8756149	37.10321	7.38E-16	0.13144
Luminosity	Gm08_8756368	8	8756368	37.00327	7.43E-16	0.1219
Luminosity	Gm08_8757269	8	8757269	30.97553	1.71E-13	0.10498
Luminosity	Gm08_8758857	8	8758857	16.83214	8.05E-08	0.05823
Luminosity	Gm08_8758861	8	8758861	28.18975	2.24E-12	0.10012
Luminosity	Gm08_8759543	8	8759543	31.62681	9.54E-14	0.11373
Luminosity	Gm08_8760738	8	8760738	17.206	5.70E-08	0.06529
Luminosity	Gm08_8763923	8	8763923	26.43958	1.12E-11	0.0935
Luminosity	Gm08_8764778	8	8764778	30.46011	2.76E-13	0.10785
Luminosity	Gm08_8769254	8	8769254	21.2433	1.28E-09	0.07353
Luminosity	Gm08_8772458	8	8772458	17.23946	5.55E-08	0.06755
Luminosity	Gm08_8797990	8	8797990	18.97272	1.07E-08	0.06957
Luminosity	Gm08_8803261	8	8803261	26.62519	8.87E-12	0.09193
Luminosity	Gm08_8804658	8	8804658	26.76903	8.32E-12	0.09875

Luminosity	Gm08_8810936	8	8810936	30.86421	2.01E-13	0.10405
Luminosity	Gm08_8811797	8	8811797	18.6951	1.43E-08	0.06892
Luminosity	Gm08_8951069	8	8951069	19.24894	8.29E-09	0.06308
Luminosity	Gm08_8951476	8	8951476	19.77297	5.02E-09	0.06775
Luminosity	Gm08_8951494	8	8951494	23.06828	2.33E-10	0.0815
Luminosity	Gm08_8951547	8	8951547	27.60787	3.65E-12	0.09078
Luminosity	Gm08_8951607	8	8951607	24.80884	4.51E-11	0.07889
Luminosity	Gm08_8994913	8	8994913	27.65097	3.36E-12	0.09024
Luminosity	Gm08_9003171	8	9003171	32.0441	6.84E-14	0.11875
Luminosity	Gm08_9003202	8	9003202	17.05947	6.46E-08	0.06075
Luminosity	Gm08_9003203	8	9003203	17.04092	6.58E-08	0.06064
Luminosity	Gm08_9003237	8	9003237	28.41236	1.86E-12	0.1122
Luminosity	Gm08_9004627	8	9004627	20.0113	4.15E-09	0.08079
Luminosity	Gm08_9005247	8	9005247	30.2384	3.68E-13	0.11656
Luminosity	Gm08_9005430	8	9005430	29.90688	4.61E-13	0.11127
Luminosity	Gm08_9005432	8	9005432	29.67633	5.72E-13	0.11062
Luminosity	Gm08_9014007	8	9014007	16.81689	8.09E-08	0.0597
Luminosity	Gm08_9041378	8	9041378	29.73092	5.53E-13	0.10656
Luminosity	Gm08_9049801	8	9049801	25.447	2.67E-11	0.08818
Luminosity	Gm08_9054741	8	9054741	31.00132	1.68E-13	0.10794
Luminosity	Gm08_9054872	8	9054872	37.21539	6.71E-16	0.13058
Luminosity	Gm08_9056324	8	9056324	22.4766	4.12E-10	0.08192
Luminosity	Gm08_9063387	8	9063387	24.50137	6.42E-11	0.08135
Luminosity	Gm08_9071236	8	9071236	21.7636	8.30E-10	0.0824
Luminosity	Gm08_9071263	8	9071263	26.51845	1.07E-11	0.09915
Luminosity	Gm08_9077545	8	9077545	20.57959	2.37E-09	0.07097
Luminosity	Gm08_9094556	8	9094556	17.84474	3.12E-08	0.0627
Luminosity	Gm08_9096795	8	9096795	17.0662	6.43E-08	0.06042
Luminosity	Gm08_9119281	8	9119281	23.31039	1.85E-10	0.07676
Luminosity	Gm08_9148564	8	9148564	20.84266	1.89E-09	0.07546
Luminosity	Gm08_9502316	8	9502316	20.76514	1.96E-09	0.068
Luminosity	Gm08_9587719	8	9587719	20.28168	3.13E-09	0.07113
Luminosity	Gm08_9589694	8	9589694	21.38924	1.13E-09	0.07274
Luminosity	Gm08_9590447	8	9590447	18.80781	1.24E-08	0.06271
Luminosity	Gm08_9590873	8	9590873	21.05683	1.53E-09	0.07058
Luminosity	Gm08_9591064	8	9591064	20.24666	3.30E-09	0.07121
Luminosity	Gm08_9597983	8	9597983	20.63328	2.26E-09	0.07106
Luminosity	Gm08_9597994	8	9597994	18.84804	1.20E-08	0.06634
Luminosity	Gm08_9598154	8	9598154	19.03083	1.01E-08	0.06374
Luminosity	Gm08_9598223	8	9598223	17.61824	3.82E-08	0.0598
Luminosity	Gm08_9598570	8	9598570	18.1976	2.22E-08	0.06306
Luminosity	Gm08_9598907	8	9598907	17.98193	2.73E-08	0.05951
Luminosity	Gm08_9598955	8	9598955	17.5232	4.15E-08	0.05615
Luminosity	Gm08_9599939	8	9599939	21.32186	1.22E-09	0.07614
Luminosity	Gm08_9599966	8	9599966	18.72453	1.36E-08	0.0659
Luminosity	Gm08_9600568	8	9600568	20.69259	2.13E-09	0.07068

Luminosity	Gm08_9601450	8	9601450	20.57273	2.39E-09	0.06995
Luminosity	Gm08_9601586	8	9601586	19.45874	6.92E-09	0.0687
Luminosity	Gm08_9601687	8	9601687	20.65718	2.25E-09	0.0696
Luminosity	Gm08_9606962	8	9606962	20.10152	3.76E-09	0.07132
Luminosity	Gm08_9692622	8	9692622	16.78417	8.16E-08	0.05516
Luminosity	Gm08_9697726	8	9697726	17.47634	4.37E-08	0.06055
Luminosity	Gm08_9697744	8	9697744	17.66886	3.61E-08	0.06062
Luminosity	Gm08_9699064	8	9699064	21.03711	1.51E-09	0.06808
Luminosity	Gm08_9699873	8	9699873	17.11638	6.16E-08	0.06163
Luminosity	Gm08_9699956	8	9699956	17.53874	4.08E-08	0.05863
Luminosity	Gm08_9908781	8	9908781	19.60361	5.96E-09	0.06867
Luminosity	Gm08_9909354	8	9909354	18.33138	1.98E-08	0.06464
Luminosity	Gm08_9957884	8	9957884	25.52268	2.54E-11	0.08442
Luminosity	Gm08_9957906	8	9957906	24.96805	4.18E-11	0.08301
Luminosity	Gm08_9957944	8	9957944	17.54436	4.12E-08	0.0617
Luminosity	Gm10_41380742	10	41380742	16.94421	7.22E-08	0.05753
L	Gm03_37580091	3	37580091	16.70604	9.00E-08	0.05965
L	Gm06_18887736	6	18887736	20.43215	2.72E-09	0.07222
L	Gm08_7587823	8	7587823	17.46906	4.38E-08	0.0613
L	Gm08_7820505	8	7820505	21.86889	7.37E-10	0.08
L	Gm08_7880131	8	7880131	24.43637	6.78E-11	0.07953
L	Gm08_7890026	8	7890026	20.99243	1.63E-09	0.06941
L	Gm08_7963852	8	7963852	17.4282	4.68E-08	0.06216
L	Gm08_7985936	8	7985936	18.13438	2.31E-08	0.06153
L	Gm08_7986614	8	7986614	16.96125	7.10E-08	0.06085
L	Gm08_7989738	8	7989738	21.75129	8.23E-10	0.07898
L	Gm08_7993878	8	7993878	17.20088	5.71E-08	0.06064
L	Gm08_8000375	8	8000375	32.21187	6.06E-14	0.11385
L	Gm08_8000994	8	8000994	38.45518	2.24E-16	0.13063
L	Gm08_8001123	8	8001123	31.66431	1.00E-13	0.11199
L	Gm08_8001396	8	8001396	28.34822	1.86E-12	0.09554
L	Gm08_8002535	8	8002535	22.89313	2.90E-10	0.0826
L	Gm08_8006240	8	8006240	31.13163	3.77E-08	0.053
L	Gm08_8006736	8	8006736	21.62989	9.03E-10	0.07311
L	Gm08_8008583	8	8008583	31.2923	1.35E-13	0.10835
L	Gm08_8019129	8	8019129	36.083	1.75E-15	0.11948
L	Gm08_8024427	8	8024427	24.37651	7.37E-11	0.09403
L	Gm08_8031082	8	8031082	33.47633	1.92E-14	0.12421
L	Gm08_8042287	8	8042287	22.6741	3.48E-10	0.08185
L	Gm08_8046253	8	8046253	18.29064	1.95E-08	0.05927
L	Gm08_8047879	8	8047879	25.25214	3.28E-11	0.08986
L	Gm08_8047994	8	8047994	22.91076	2.72E-10	0.07811
L	Gm08_8048235	8	8048235	19.62383	5.91E-09	0.07355
L	Gm08_8052282	8	8052282	37.46811	5.69E-16	0.13151
L	Gm08_8053376	8	8053376	104.681	1.35E-22	0.18355
L	Gm08_8053477	8	8053477	46.12404	2.91E-19	0.15948

L	Gm08_8055772	8	8055772	36.9476	9.14E-16	0.13642
L	Gm08_8056510	8	8056510	37.12096	7.35E-16	0.13916
L	Gm08_8058590	8	8058590	19.64095	5.65E-09	0.06533
L	Gm08_8059083	8	8059083	18.65682	1.43E-08	0.06407
L	Gm08_8059184	8	8059184	37.18593	7.41E-16	0.13216
L	Gm08_8062435	8	8062435	41.77176	1.34E-17	0.14636
L	Gm08_8065674	8	8065674	42.38755	6.95E-18	0.14766
L	Gm08_8066335	8	8066335	42.40607	6.87E-18	0.14843
L	Gm08_8066589	8	8066589	33.97503	1.25E-14	0.12059
L	Gm08_8067540	8	8067540	21.39619	1.11E-09	0.07363
L	Gm08_8069365	8	8069365	38.04486	3.31E-16	0.1355
L	Gm08_8069576	8	8069576	18.39508	1.85E-08	0.06442
L	Gm08_8069606	8	8069606	16.9646	7.09E-08	0.06021
L	Gm08_8081879	8	8081879	40.01803	5.72E-17	0.14393
L	Gm08_8083031	8	8083031	38.36832	2.51E-16	0.13282
L	Gm08_8088815	8	8088815	24.42313	7.16E-11	0.09614
L	Gm08_8088980	8	8088980	19.3294	7.91E-09	0.07196
L	Gm08_8092329	8	8092329	49.12508	2.38E-20	0.17231
L	Gm08_8095794	8	8095794	39.1794	1.24E-16	0.13191
L	Gm08_8096014	8	8096014	30.52946	2.68E-13	0.10666
L	Gm08_8099353	8	8099353	30.82533	1.96E-13	0.10538
L	Gm08_8100194	8	8100194	21.84395	7.69E-10	0.0833
L	Gm08_8101680	8	8101680	24.55919	6.11E-11	0.09349
L	Gm08_8110318	8	8110318	35.93267	2.15E-15	0.1246
L	Gm08_8157061	8	8157061	56.55105	4.82E-23	0.19971
L	Gm08_8172987	8	8172987	34.99949	5.19E-15	0.11899
L	Gm08_8176120	8	8176120	24.49294	6.47E-11	0.09373
L	Gm08_8188522	8	8188522	31.70739	9.17E-14	0.11239
L	Gm08_8188523	8	8188523	31.27276	1.37E-13	0.11027
L	Gm08_8190124	8	8190124	38.40848	2.42E-16	0.13366
L	Gm08_8190497	8	8190497	39.93625	6.47E-17	0.14382
L	Gm08_8190546	8	8190546	46.05809	3.15E-19	0.1608
L	Gm08_8191127	8	8191127	68.28407	2.44E-27	0.23472
L	Gm08_8191455	8	8191455	30.80869	2.13E-13	0.11263
L	Gm08_8191743	8	8191743	36.49764	1.28E-15	0.1239
L	Gm08_8192436	8	8192436	32.90853	3.34E-14	0.12158
L	Gm08_8193398	8	8193398	34.10476	1.07E-14	0.12475
L	Gm08_8193403	8	8193403	34.52588	7.57E-15	0.12925
L	Gm08_8193696	8	8193696	36.53589	1.16E-15	0.12762
L	Gm08_8194523	8	8194523	27.42054	4.47E-12	0.09938
L	Gm08_8195742	8	8195742	73.92162	3.94E-29	0.25228
L	Gm08_8196111	8	8196111	40.55143	3.67E-17	0.14044
L	Gm08_8196565	8	8196565	41.42449	1.56E-17	0.1411
L	Gm08_8196909	8	8196909	38.20776	3.02E-16	0.13385
L	Gm08_8197293	8	8197293	66.09191	2.11E-26	0.24627
L	Gm08_8197709	8	8197709	37.86639	3.57E-16	0.13381

L	Gm08_8198228	8	8198228	42.59509	6.39E-18	0.14609
L	Gm08_8198246	8	8198246	42.46632	7.18E-18	0.14256
L	Gm08_8199605	8	8199605	39.98602	5.76E-17	0.14079
L	Gm08_8199626	8	8199626	73.51245	4.31E-29	0.25828
L	Gm08_8199882	8	8199882	83.30026	2.01E-32	0.28332
L	Gm08_8200063	8	8200063	38.72944	1.69E-16	0.1315
L	Gm08_8200230	8	8200230	75.12008	1.09E-29	0.25225
L	Gm08_8200825	8	8200825	79.72233	2.26E-31	0.265
L	Gm08_8201008	8	8201008	67.70274	4.79E-27	0.24071
L	Gm08_8201272	8	8201272	40.19137	4.28E-17	0.13797
L	Gm08_8201476	8	8201476	85.60896	2.73E-33	0.27743
L	Gm08_8201501	8	8201501	84.03107	1.06E-32	0.28167
L	Gm08_8201849	8	8201849	78.51671	6.65E-31	0.26448
L	Gm08_8202357	8	8202357	67.60737	4.09E-27	0.22107
L	Gm08_8202427	8	8202427	43.08306	3.61E-18	0.14119
L	Gm08_8202907	8	8202907	33.81809	1.38E-14	0.12305
L	Gm08_8203074	8	8203074	63.88398	9.81E-26	0.2319
L	Gm08_8203593	8	8203593	37.65493	4.42E-16	0.12685
L	Gm08_8204027	8	8204027	33.17234	2.60E-14	0.12742
L	Gm08_8204715	8	8204715	33.67588	1.47E-14	0.11458
L	Gm08_8204961	8	8204961	70.65183	5.09E-28	0.25373
L	Gm08_8205513	8	8205513	44.75788	9.95E-19	0.15047
L	Gm08_8205579	8	8205579	42.17872	8.45E-18	0.14116
L	Gm08_8205602	8	8205602	39.89111	6.61E-17	0.13758
L	Gm08_8205748	8	8205748	38.07844	3.28E-16	0.13312
L	Gm08_8209460	8	8209460	32.59725	4.09E-14	0.11566
L	Gm08_8210287	8	8210287	20.13618	3.62E-09	0.07606
L	Gm08_8210825	8	8210825	35.37852	3.31E-15	0.11769
L	Gm08_8214801	8	8214801	34.46389	8.03E-15	0.12415
L	Gm08_8216666	8	8216666	62.78059	2.82E-25	0.23847
L	Gm08_8217631	8	8217631	29.9873	4.03E-13	0.10098
L	Gm08_8230569	8	8230569	26.47686	1.00E-11	0.08352
L	Gm08_8232667	8	8232667	30.61536	2.41E-13	0.10592
L	Gm08_8232993	8	8232993	41.49117	1.36E-17	0.13252
L	Gm08_8233645	8	8233645	37.81914	3.84E-16	0.12552
L	Gm08_8236097	8	8236097	27.14579	5.89E-12	0.10177
L	Gm08_8236244	8	8236244	35.7933	2.25E-15	0.12624
L	Gm08_8236763	8	8236763	33.95116	1.14E-14	0.1167
L	Gm08_8236862	8	8236862	34.1028	1.02E-14	0.1195
L	Gm08_8236894	8	8236894	39.88523	6.45E-17	0.13537
L	Gm08_8237654	8	8237654	41.56726	1.41E-17	0.14392
L	Gm08_8238668	8	8238668	32.26993	5.49E-14	0.11371
L	Gm08_8238813	8	8238813	29.11812	9.89E-13	0.11358
L	Gm08_8241224	8	8241224	67.7418	5.13E-27	0.25977
L	Gm08_8241247	8	8241247	26.6444	9.27E-12	0.10411
L	Gm08_8242850	8	8242850	72.39675	1.24E-28	0.25059

L	Gm08_8243491	8	8243491	68.60352	2.76E-27	0.2465
L	Gm08_8244136	8	8244136	85.98864	2.07E-33	0.29829
L	Gm08_8245354	8	8245354	29.73809	5.40E-13	0.10235
L	Gm08_8245529	8	8245529	86.8112	1.08E-33	0.28678
L	Gm08_8259822	8	8259822	82.13237	3.55E-32	0.25901
L	Gm08_8267574	8	8267574	68.2838	3.44E-27	0.23444
L	Gm08_8267782	8	8267782	17.71496	3.52E-08	0.06828
L	Gm08_8267935	8	8267935	23.8582	1.16E-10	0.0885
L	Gm08_8270790	8	8270790	27.1106	5.95E-12	0.09705
L	Gm08_8270797	8	8270797	25.45602	2.71E-11	0.0932
L	Gm08_8285621	8	8285621	29.86437	4.97E-13	0.11214
L	Gm08_8285888	8	8285888	79.69288	3.55E-31	0.273
L	Gm08_8288351	8	8288351	31.89971	7.42E-14	0.10492
L	Gm08_8303360	8	8303360	17.12709	6.05E-08	0.05698
L	Gm08_8303757	8	8303757	27.92771	2.75E-12	0.098
L	Gm08_8303996	8	8303996	26.327	1.23E-11	0.09434
L	Gm08_8306163	8	8306163	85.05565	7.22E-33	0.30602
L	Gm08_8306355	8	8306355	19.51714	6.50E-09	0.07057
L	Gm08_8306458	8	8306458	38.18028	2.81E-16	0.12589
L	Gm08_8306806	8	8306806	16.71433	8.97E-08	0.05568
L	Gm08_8311989	8	8311989	75.26849	1.09E-29	0.2589
L	Gm08_8312343	8	8312343	58.65561	6.57E-24	0.20251
L	Gm08_8313215	8	8313215	79.74531	2.43E-31	0.26982
L	Gm08_8313241	8	8313241	73.66186	3.93E-29	0.25941
L	Gm08_8313428	8	8313428	53.23643	7.96E-22	0.20383
L	Gm08_8313640	8	8313640	55.36476	1.26E-22	0.20188
L	Gm08_8314161	8	8314161	30.99292	1.66E-13	0.10399
L	Gm08_8314707	8	8314707	67.34496	6.90E-27	0.23864
L	Gm08_8314788	8	8314788	68.32591	2.57E-27	0.24733
L	Gm08_8314827	8	8314827	68.00452	3.13E-27	0.24271
L	Gm08_8314987	8	8314987	63.55439	1.46E-25	0.23115
L	Gm08_8316860	8	8316860	67.9842	4.18E-27	0.24072
L	Gm08_8317597	8	8317597	31.29144	1.29E-13	0.10499
L	Gm08_8318754	8	8318754	23.68433	1.38E-10	0.08139
L	Gm08_8318759	8	8318759	39.04594	1.48E-16	0.13509
L	Gm08_8318820	8	8318820	17.42032	4.70E-08	0.05969
L	Gm08_8318837	8	8318837	78.55912	1.03E-30	0.26695
L	Gm08_8319060	8	8319060	66.16535	1.99E-26	0.24259
L	Gm08_8319085	8	8319085	60.21031	2.28E-24	0.22455
L	Gm08_8319087	8	8319087	58.60157	9.19E-24	0.22319
L	Gm08_8319115	8	8319115	58.16233	1.21E-23	0.21553
L	Gm08_8319732	8	8319732	69.02281	1.89E-27	0.24718
L	Gm08_8319744	8	8319744	69.53481	1.20E-27	0.24589
L	Gm08_8319787	8	8319787	70.41427	5.79E-28	0.25781
L	Gm08_8319795	8	8319795	71.1495	2.86E-28	0.2542
L	Gm08_8319799	8	8319799	19.6515	5.64E-09	0.07111

L	Gm08_8319817	8	8319817	69.26796	1.50E-27	0.24726
L	Gm08_8319867	8	8319867	58.32287	1.13E-23	0.22493
L	Gm08_8321558	8	8321558	17.27341	5.23E-08	0.05898
L	Gm08_8322185	8	8322185	74.92539	1.79E-29	0.25885
L	Gm08_8322357	8	8322357	73.23918	5.42E-29	0.23613
L	Gm08_8323966	8	8323966	28.84523	1.17E-12	0.10025
L	Gm08_8323971	8	8323971	73.77972	3.53E-29	0.24908
L	Gm08_8323983	8	8323983	69.12719	1.48E-27	0.23341
L	Gm08_8324392	8	8324392	72.39864	8.34E-29	0.23343
L	Gm08_8327519	8	8327519	18.51908	1.60E-08	0.06083
L	Gm08_8328261	8	8328261	75.96125	6.57E-30	0.2756
L	Gm08_8328392	8	8328392	16.79921	8.28E-08	0.06197
L	Gm08_8329538	8	8329538	27.14661	5.69E-12	0.09996
L	Gm08_8346238	8	8346238	18.37431	1.89E-08	0.06296
L	Gm08_8354601	8	8354601	36.95041	8.67E-16	0.13113
L	Gm08_8359499	8	8359499	27.14558	5.18E-12	0.09115
L	Gm08_8360663	8	8360663	45.43307	4.60E-19	0.15982
L	Gm08_8364457	8	8364457	32.64165	3.65E-14	0.11439
L	Gm08_8364601	8	8364601	22.22866	5.08E-10	0.07865
L	Gm08_8368519	8	8368519	38.27607	2.57E-16	0.12597
L	Gm08_8368552	8	8368552	54.02404	3.16E-22	0.18169
L	Gm08_8371230	8	8371230	83.29281	1.96E-32	0.26965
L	Gm08_8373581	8	8373581	106.3052	2.67E-40	0.35669
L	Gm08_8374519	8	8374519	93.3092	1.21E-35	0.33095
L	Gm08_8374643	8	8374643	79.23469	6.31E-31	0.27523
L	Gm08_8374655	8	8374655	48.50833	3.94E-20	0.16447
L	Gm08_8374738	8	8374738	64.25759	8.96E-26	0.2405
L	Gm08_8374743	8	8374743	22.6816	3.46E-10	0.08337
L	Gm08_8375080	8	8375080	35.00634	4.64E-15	0.12032
L	Gm08_8375124	8	8375124	39.37651	1.02E-16	0.13854
L	Gm08_8375522	8	8375522	40.07442	5.26E-17	0.14654
L	Gm08_8375603	8	8375603	51.73339	2.29E-21	0.17423
L	Gm08_8375666	8	8375666	71.03597	1.97E-28	0.22829
L	Gm08_8375961	8	8375961	27.6377	3.37E-12	0.08709
L	Gm08_8376085	8	8376085	71.74735	1.67E-28	0.2353
L	Gm08_8377404	8	8377404	44.37608	1.28E-18	0.15556
L	Gm08_8377783	8	8377783	88.24317	6.10E-34	0.33248
L	Gm08_8378225	8	8378225	47.69299	8.71E-20	0.17829
L	Gm08_8379915	8	8379915	41.67262	1.26E-17	0.13541
L	Gm08_8380062	8	8380062	39.86717	5.38E-17	0.12579
L	Gm08_8380544	8	8380544	38.69111	1.56E-16	0.12548
L	Gm08_8380771	8	8380771	36.49962	1.15E-15	0.1286
L	Gm08_8380778	8	8380778	33.2652	2.07E-14	0.11877
L	Gm08_8380797	8	8380797	35.04199	4.24E-15	0.11873
L	Gm08_8380961	8	8380961	38.21128	2.53E-16	0.12914
L	Gm08_8380988	8	8380988	35.21844	3.70E-15	0.12121

L	Gm08_8381058	8	8381058	99.10439	8.76E-38	0.32581
L	Gm08_8381111	8	8381111	41.9135	9.34E-18	0.13483
L	Gm08_8381483	8	8381483	40.53274	2.98E-17	0.1245
L	Gm08_8381494	8	8381494	40.22178	3.88E-17	0.12307
L	Gm08_8381764	8	8381764	96.12814	5.89E-37	0.30008
L	Gm08_8390797	8	8390797	109.2279	1.40E-41	0.31493
L	Gm08_8391476	8	8391476	20.41986	2.52E-09	0.06011
L	Gm08_8391589	8	8391589	20.83783	1.72E-09	0.06285
L	Gm08_8391636	8	8391636	23.10266	2.18E-10	0.07359
L	Gm08_8391703	8	8391703	25.61568	1.95E-11	0.07664
L	Gm08_8392065	8	8392065	22.22935	4.50E-10	0.06422
L	Gm08_8392089	8	8392089	20.74967	1.80E-09	0.05918
L	Gm08_8392458	8	8392458	20.07144	3.42E-09	0.05852
L	Gm08_8392597	8	8392597	48.48813	9.39E-12	0.08127
L	Gm08_8392883	8	8392883	19.54726	5.74E-09	0.05877
L	Gm08_8393576	8	8393576	76.92995	1.29E-30	0.23753
L	Gm08_8393771	8	8393771	24.8931	4.31E-11	0.08279
L	Gm08_8393781	8	8393781	22.91865	2.78E-10	0.0818
L	Gm08_8394768	8	8394768	24.74962	4.76E-11	0.07958
L	Gm08_8394915	8	8394915	105.0684	6.96E-40	0.34674
L	Gm08_8395520	8	8395520	19.53404	6.08E-09	0.06565
L	Gm08_8398559	8	8398559	112.5908	3.47E-42	0.38234
L	Gm08_8399515	8	8399515	105.5883	3.95E-40	0.35569
L	Gm08_8399983	8	8399983	18.96445	1.04E-08	0.06609
L	Gm08_8400595	8	8400595	114.2009	8.97E-43	0.37079
L	Gm08_8402470	8	8402470	37.2515	1.92E-09	0.06484
L	Gm08_8402471	8	8402471	37.20785	1.98E-09	0.06415
L	Gm08_8420033	8	8420033	100.0419	6.01E-38	0.35052
L	Gm08_8421326	8	8421326	17.64315	3.80E-08	0.06388
L	Gm08_8421496	8	8421496	18.96334	1.11E-08	0.06997
L	Gm08_8431993	8	8431993	18.66239	1.44E-08	0.07018
L	Gm08_8438870	8	8438870	99.22216	1.87E-37	0.35591
L	Gm08_8438876	8	8438876	40.43879	4.33E-17	0.14289
L	Gm08_8438936	8	8438936	43.15768	3.93E-18	0.15264
L	Gm08_8439073	8	8439073	99.63643	1.44E-37	0.35794
L	Gm08_8457731	8	8457731	32.78651	3.46E-14	0.10991
L	Gm08_8458705	8	8458705	25.08686	3.99E-11	0.10124
L	Gm08_8473040	8	8473040	17.57503	3.95E-08	0.0591
L	Gm08_8473066	8	8473066	18.94557	1.10E-08	0.06601
L	Gm08_8473075	8	8473075	18.07441	2.49E-08	0.06377
L	Gm08_8473115	8	8473115	17.06375	6.30E-08	0.05565
L	Gm08_8473117	8	8473117	16.79796	8.08E-08	0.05491
L	Gm08_8473145	8	8473145	17.05892	6.35E-08	0.05838
L	Gm08_8473227	8	8473227	91.92738	3.54E-35	0.32265
L	Gm08_8473662	8	8473662	26.42317	1.11E-11	0.09478
L	Gm08_8508518	8	8508518	16.91473	7.34E-08	0.05721

L	Gm08_8508773	8	8508773	18.22693	2.13E-08	0.06086
L	Gm08_8508776	8	8508776	18.06982	2.47E-08	0.06022
L	Gm08_8509645	8	8509645	21.58592	9.28E-10	0.07783
L	Gm08_8509775	8	8509775	18.37506	1.86E-08	0.06274
L	Gm08_8513329	8	8513329	70.97993	2.41E-28	0.23133
L	Gm08_8513330	8	8513330	72.57815	6.82E-29	0.23786
L	Gm08_8513350	8	8513350	48.29041	3.40E-20	0.15391
L	Gm08_8513390	8	8513390	73.62047	1.76E-29	0.23077
L	Gm08_8513442	8	8513442	72.11945	4.15E-29	0.2159
L	Gm08_8526593	8	8526593	68.09755	3.30E-27	0.23968
L	Gm08_8530246	8	8530246	22.11577	5.74E-10	0.07468
L	Gm08_8530715	8	8530715	42.08004	8.61E-18	0.13857
L	Gm08_8530811	8	8530811	17.29541	5.13E-08	0.05942
L	Gm08_8530878	8	8530878	70.42973	4.96E-28	0.23938
L	Gm08_8531722	8	8531722	18.68865	1.40E-08	0.06616
L	Gm08_8531743	8	8531743	18.63821	1.45E-08	0.0653
L	Gm08_8531901	8	8531901	23.78004	1.19E-10	0.07879
L	Gm08_8531923	8	8531923	23.83135	1.16E-10	0.0796
L	Gm08_8532182	8	8532182	22.96211	2.66E-10	0.08176
L	Gm08_8532274	8	8532274	41.11841	2.40E-17	0.14506
L	Gm08_8532878	8	8532878	21.22542	1.30E-09	0.07093
L	Gm08_8535064	8	8535064	41.14147	1.94E-17	0.13686
L	Gm08_8535153	8	8535153	21.31087	1.18E-09	0.07022
L	Gm08_8535241	8	8535241	16.93677	7.18E-08	0.05617
L	Gm08_8535483	8	8535483	20.80619	1.90E-09	0.06917
L	Gm08_8535484	8	8535484	19.18638	8.64E-09	0.06411
L	Gm08_8536695	8	8536695	18.68629	1.40E-08	0.06393
L	Gm08_8537176	8	8537176	18.87706	1.20E-08	0.06873
L	Gm08_8537481	8	8537481	19.69895	5.28E-09	0.06531
L	Gm08_8537510	8	8537510	19.20993	8.39E-09	0.06341
L	Gm08_8537579	8	8537579	17.04801	6.44E-08	0.05648
L	Gm08_8538286	8	8538286	54.5958	2.41E-22	0.19764
L	Gm08_8538449	8	8538449	18.71749	1.36E-08	0.0631
L	Gm08_8539128	8	8539128	65.05794	3.93E-26	0.23003
L	Gm08_8539136	8	8539136	17.14161	5.90E-08	0.05749
L	Gm08_8539257	8	8539257	19.43974	6.95E-09	0.0693
L	Gm08_8539508	8	8539508	16.82344	8.06E-08	0.0594
L	Gm08_8540424	8	8540424	19.04412	1.00E-08	0.0634
L	Gm08_8541020	8	8541020	20.84603	1.84E-09	0.07174
L	Gm08_8541531	8	8541531	19.6094	6.01E-09	0.07271
L	Gm08_8541533	8	8541533	19.42508	7.21E-09	0.07381
L	Gm08_8541663	8	8541663	20.61326	2.28E-09	0.06839
L	Gm08_8541967	8	8541967	25.19347	3.36E-11	0.08548
L	Gm08_8542721	8	8542721	18.6308	1.50E-08	0.06345
L	Gm08_8542855	8	8542855	17.16252	5.86E-08	0.06172
L	Gm08_8543284	8	8543284	17.19693	5.63E-08	0.05587

L	Gm08_8543287	8	8543287	18.03348	2.56E-08	0.05787
L	Gm08_8543674	8	8543674	22.17633	5.51E-10	0.07885
L	Gm08_8543708	8	8543708	26.3255	1.24E-11	0.08975
L	Gm08_8543723	8	8543723	23.9368	1.09E-10	0.08035
L	Gm08_8544856	8	8544856	20.20002	3.39E-09	0.06885
L	Gm08_8544857	8	8544857	20.5818	2.43E-09	0.07287
L	Gm08_8544869	8	8544869	21.9078	7.06E-10	0.07659
L	Gm08_8544870	8	8544870	22.10974	5.87E-10	0.07559
L	Gm08_8544921	8	8544921	16.85128	7.81E-08	0.05865
L	Gm08_8544931	8	8544931	53.21133	8.65E-22	0.19972
L	Gm08_8545043	8	8545043	17.01122	6.86E-08	0.06195
L	Gm08_8546329	8	8546329	18.62353	1.50E-08	0.06403
L	Gm08_8546496	8	8546496	16.99888	6.74E-08	0.05908
L	Gm08_8547836	8	8547836	16.90181	7.54E-08	0.06052
L	Gm08_8547881	8	8547881	21.3637	1.16E-09	0.0724
L	Gm08_8549536	8	8549536	17.14683	5.99E-08	0.06211
L	Gm08_8550166	8	8550166	18.45181	1.77E-08	0.06303
L	Gm08_8550222	8	8550222	17.56003	4.00E-08	0.05883
L	Gm08_8550815	8	8550815	21.90927	6.96E-10	0.07428
L	Gm08_8550903	8	8550903	17.44832	4.49E-08	0.06007
L	Gm08_8551421	8	8551421	17.06795	6.45E-08	0.05959
L	Gm08_8552667	8	8552667	22.19036	5.37E-10	0.07349
L	Gm08_8552680	8	8552680	24.33763	7.49E-11	0.08156
L	Gm08_8557526	8	8557526	19.38596	7.37E-09	0.0682
L	Gm08_8557749	8	8557749	19.60138	5.92E-09	0.06856
L	Gm08_8562604	8	8562604	57.86703	1.54E-23	0.22225
L	Gm08_8564702	8	8564702	54.78322	1.97E-22	0.19492
L	Gm08_8567208	8	8567208	63.5141	1.33E-25	0.21288
L	Gm08_8568732	8	8568732	21.59458	9.13E-10	0.07286
L	Gm08_8573698	8	8573698	48.06215	5.48E-20	0.16237
L	Gm08_8575427	8	8575427	17.42707	4.69E-08	0.06216
L	Gm08_8581777	8	8581777	17.34831	4.91E-08	0.05771
L	Gm08_8582311	8	8582311	78.78472	8.19E-31	0.2672
L	Gm08_8593015	8	8593015	33.66702	1.54E-14	0.11906
L	Gm08_8596080	8	8596080	62.17669	4.31E-25	0.22713
L	Gm08_8598389	8	8598389	20.10006	3.70E-09	0.06614
L	Gm08_8598614	8	8598614	52.10172	1.76E-21	0.18177
L	Gm08_8599062	8	8599062	48.33059	4.61E-20	0.16913
L	Gm08_8599104	8	8599104	17.76265	3.40E-08	0.06467
L	Gm08_8599749	8	8599749	35.4416	3.24E-15	0.12579
L	Gm08_8600110	8	8600110	42.28763	7.69E-18	0.14261
L	Gm08_8600112	8	8600112	42.8088	4.89E-18	0.1445
L	Gm08_8600577	8	8600577	44.66434	1.04E-18	0.156
L	Gm08_8600731	8	8600731	40.62949	3.44E-17	0.14235
L	Gm08_8606073	8	8606073	29.90572	4.84E-13	0.11137
L	Gm08_8611170	8	8611170	48.61001	3.55E-20	0.17911

L	Gm08_8616114	8	8616114	20.09381	3.80E-09	0.07031
L	Gm08_8618655	8	8618655	36.64367	1.08E-15	0.12816
L	Gm08_8619695	8	8619695	18.69772	1.40E-08	0.06797
L	Gm08_8624758	8	8624758	23.23701	2.06E-10	0.07958
L	Gm08_8624935	8	8624935	16.77804	8.45E-08	0.05807
L	Gm08_8625732	8	8625732	33.05684	2.78E-14	0.11893
L	Gm08_8626730	8	8626730	17.61838	3.89E-08	0.06451
L	Gm08_8630161	8	8630161	21.67561	8.78E-10	0.0791
L	Gm08_8635529	8	8635529	18.76588	1.32E-08	0.06607
L	Gm08_8642278	8	8642278	29.57056	6.54E-13	0.10928
L	Gm08_8655544	8	8655544	24.37072	7.49E-11	0.08867
L	Gm08_8661143	8	8661143	18.20955	2.21E-08	0.067
L	Gm08_8661207	8	8661207	48.93952	3.13E-20	0.18696
L	Gm08_8661940	8	8661940	65.53647	3.16E-26	0.22745
L	Gm08_8661946	8	8661946	64.45276	7.66E-26	0.22415
L	Gm08_8665831	8	8665831	25.26874	3.17E-11	0.08979
L	Gm08_8669224	8	8669224	33.2588	2.29E-14	0.12213
L	Gm08_8670168	8	8670168	37.52116	4.76E-16	0.12405
L	Gm08_8672494	8	8672494	49.30331	2.26E-20	0.18083
L	Gm08_8675132	8	8675132	51.83723	2.83E-21	0.18522
L	Gm08_8679805	8	8679805	40.01358	6.19E-17	0.14967
L	Gm08_8683339	8	8683339	23.81137	1.18E-10	0.0789
L	Gm08_8693593	8	8693593	18.79821	1.25E-08	0.06635
L	Gm08_8694446	8	8694446	21.16482	1.34E-09	0.07115
L	Gm08_8694679	8	8694679	17.59637	3.94E-08	0.06195
L	Gm08_8704007	8	8704007	22.08532	6.00E-10	0.07455
L	Gm08_8711592	8	8711592	27.59077	3.86E-12	0.09373
L	Gm08_8714742	8	8714742	32.61755	4.02E-14	0.11641
L	Gm08_8718333	8	8718333	21.3903	1.13E-09	0.0775
L	Gm08_8719983	8	8719983	21.88217	7.23E-10	0.07631
L	Gm08_8724028	8	8724028	23.39858	1.79E-10	0.08909
L	Gm08_8724602	8	8724602	17.31871	5.12E-08	0.06282
L	Gm08_8728517	8	8728517	23.32856	1.92E-10	0.07799
L	Gm08_8730779	8	8730779	33.10564	2.58E-14	0.11494
L	Gm08_8731711	8	8731711	22.2276	5.27E-10	0.07416
L	Gm08_8732105	8	8732105	26.20991	1.36E-11	0.0941
L	Gm08_8733115	8	8733115	21.30015	1.25E-09	0.07788
L	Gm08_8733180	8	8733180	27.45286	4.54E-12	0.09966
L	Gm08_8733296	8	8733296	21.27217	1.26E-09	0.07993
L	Gm08_8733318	8	8733318	24.16154	8.68E-11	0.08749
L	Gm08_8733852	8	8733852	29.38712	7.51E-13	0.1107
L	Gm08_8734062	8	8734062	23.71512	1.29E-10	0.08099
L	Gm08_8734345	8	8734345	34.54501	7.34E-15	0.11384
L	Gm08_8739475	8	8739475	18.61962	1.51E-08	0.06582
L	Gm08_8741243	8	8741243	39.63434	8.89E-17	0.14147
L	Gm08_8741992	8	8741992	31.3148	1.32E-13	0.11651

L	Gm08_8742487	8	8742487	26.04346	1.58E-11	0.08891
L	Gm08_8742890	8	8742890	39.86418	6.95E-17	0.13888
L	Gm08_8744275	8	8744275	37.30219	5.92E-16	0.12443
L	Gm08_8748456	8	8748456	24.76192	5.02E-11	0.08717
L	Gm08_8748463	8	8748463	24.64804	5.64E-11	0.08599
L	Gm08_8752677	8	8752677	30.79522	2.03E-13	0.10231
L	Gm08_8752816	8	8752816	38.70278	2.01E-16	0.14615
L	Gm08_8753400	8	8753400	38.43878	2.44E-16	0.13395
L	Gm08_8753446	8	8753446	36.72072	1.12E-15	0.12836
L	Gm08_8753556	8	8753556	37.2344	6.34E-16	0.12755
L	Gm08_8753670	8	8753670	35.27382	3.49E-15	0.11386
L	Gm08_8754364	8	8754364	37.63358	4.79E-16	0.13582
L	Gm08_8754420	8	8754420	41.83936	1.22E-17	0.15265
L	Gm08_8754534	8	8754534	29.68496	5.49E-13	0.10689
L	Gm08_8756149	8	8756149	42.04784	9.69E-18	0.1491
L	Gm08_8756207	8	8756207	17.07121	6.37E-08	0.06073
L	Gm08_8756368	8	8756368	42.07466	8.54E-18	0.13794
L	Gm08_8756533	8	8756533	17.55817	3.94E-08	0.05707
L	Gm08_8757269	8	8757269	34.96409	4.78E-15	0.1176
L	Gm08_8758650	8	8758650	16.90992	7.37E-08	0.0568
L	Gm08_8758656	8	8758656	16.73753	8.66E-08	0.05684
L	Gm08_8758857	8	8758857	19.35448	7.56E-09	0.06607
L	Gm08_8758861	8	8758861	31.79255	8.75E-14	0.1123
L	Gm08_8759543	8	8759543	35.17814	3.98E-15	0.12741
L	Gm08_8760565	8	8760565	17.51751	4.25E-08	0.06392
L	Gm08_8760738	8	8760738	20.16172	3.59E-09	0.07562
L	Gm08_8761516	8	8761516	17.70018	3.50E-08	0.06185
L	Gm08_8763923	8	8763923	28.99439	1.10E-12	0.10267
L	Gm08_8764778	8	8764778	34.21714	9.52E-15	0.12007
L	Gm08_8769254	8	8769254	23.63767	1.40E-10	0.08186
L	Gm08_8772458	8	8772458	18.64972	1.48E-08	0.07359
L	Gm08_8797990	8	8797990	20.77486	1.99E-09	0.07801
L	Gm08_8803261	8	8803261	29.05125	9.74E-13	0.09951
L	Gm08_8804658	8	8804658	28.04008	2.63E-12	0.10352
L	Gm08_8810936	8	8810936	32.41503	5.01E-14	0.10874
L	Gm08_8811797	8	8811797	18.74302	1.36E-08	0.06885
L	Gm08_8951069	8	8951069	20.64945	2.24E-09	0.06763
L	Gm08_8951476	8	8951476	20.9165	1.73E-09	0.07098
L	Gm08_8951494	8	8951494	24.18101	8.33E-11	0.08412
L	Gm08_8951547	8	8951547	29.21212	8.50E-13	0.09569
L	Gm08_8951607	8	8951607	26.87431	6.75E-12	0.08529
L	Gm08_8983243	8	8983243	17.4706	4.43E-08	0.06214
L	Gm08_8994913	8	8994913	28.57352	1.45E-12	0.09302
L	Gm08_9003171	8	9003171	34.17359	1.02E-14	0.12596
L	Gm08_9003202	8	9003202	18.81519	1.24E-08	0.06704
L	Gm08_9003203	8	9003203	18.72773	1.35E-08	0.06675

L	Gm08_9003237	8	9003237	30.66964	2.43E-13	0.12141
L	Gm08_9004627	8	9004627	20.96567	1.71E-09	0.08417
L	Gm08_9005247	8	9005247	31.89029	8.39E-14	0.12302
L	Gm08_9005430	8	9005430	31.87345	7.86E-14	0.1179
L	Gm08_9005432	8	9005432	31.52314	1.09E-13	0.1169
L	Gm08_9014007	8	9014007	18.12104	2.37E-08	0.06499
L	Gm08_9041378	8	9041378	32.62098	4.13E-14	0.11654
L	Gm08_9049801	8	9049801	27.39491	4.51E-12	0.09536
L	Gm08_9054741	8	9054741	33.33689	2.06E-14	0.11685
L	Gm08_9054872	8	9054872	40.66227	3.26E-17	0.14324
L	Gm08_9056324	8	9056324	24.50027	6.37E-11	0.08979
L	Gm08_9063387	8	9063387	26.65713	8.94E-12	0.08825
L	Gm08_9071236	8	9071236	24.38787	7.43E-11	0.0918
L	Gm08_9071263	8	9071263	29.64555	6.33E-13	0.10997
L	Gm08_9077545	8	9077545	22.58829	3.67E-10	0.07881
L	Gm08_9087488	8	9087488	16.64446	9.53E-08	0.05674
L	Gm08_9094556	8	9094556	19.89071	4.61E-09	0.06945
L	Gm08_9096795	8	9096795	19.23978	8.36E-09	0.06773
L	Gm08_9119281	8	9119281	24.88794	4.31E-11	0.08206
L	Gm08_9137691	8	9137691	18.06509	2.55E-08	0.06082
L	Gm08_9148564	8	9148564	22.60668	3.69E-10	0.08138
L	Gm08_9502316	8	9502316	22.1393	5.45E-10	0.07218
L	Gm08_9587719	8	9587719	20.85783	1.83E-09	0.07307
L	Gm08_9589694	8	9589694	22.8855	2.83E-10	0.07726
L	Gm08_9590447	8	9590447	19.78905	4.94E-09	0.06553
L	Gm08_9590873	8	9590873	21.83836	7.39E-10	0.07337
L	Gm08_9591064	8	9591064	21.0036	1.63E-09	0.07423
L	Gm08_9597983	8	9597983	22.1884	5.34E-10	0.07609
L	Gm08_9597994	8	9597994	20.4971	2.58E-09	0.07169
L	Gm08_9598154	8	9598154	20.29713	3.10E-09	0.0679
L	Gm08_9598223	8	9598223	18.24438	2.12E-08	0.06205
L	Gm08_9598570	8	9598570	19.19578	8.70E-09	0.06614
L	Gm08_9598907	8	9598907	19.10166	9.57E-09	0.06322
L	Gm08_9598955	8	9598955	18.8433	1.20E-08	0.06072
L	Gm08_9599939	8	9599939	22.08529	6.00E-10	0.0781
L	Gm08_9599966	8	9599966	19.71102	5.39E-09	0.06871
L	Gm08_9600568	8	9600568	22.18941	5.30E-10	0.07629
L	Gm08_9601450	8	9601450	21.46065	1.05E-09	0.07305
L	Gm08_9601586	8	9601586	20.09625	3.82E-09	0.0708
L	Gm08_9601687	8	9601687	21.55089	9.80E-10	0.07241
L	Gm08_9606962	8	9606962	22.3583	4.63E-10	0.07892
L	Gm08_9608390	8	9608390	16.63525	9.86E-08	0.06001
L	Gm08_9669537	8	9669537	16.97816	7.00E-08	0.05906
L	Gm08_9681109	8	9681109	17.06927	6.41E-08	0.05652
L	Gm08_9692225	8	9692225	16.645	9.25E-08	0.05472
L	Gm08_9692622	8	9692622	18.21984	2.11E-08	0.06015

L	Gm08_9697726	8	9697726	18.05967	2.53E-08	0.06255
L	Gm08_9697744	8	9697744	18.11888	2.36E-08	0.06218
L	Gm08_9698987	8	9698987	17.25046	5.37E-08	0.05705
L	Gm08_9699064	8	9699064	22.05961	5.84E-10	0.07109
L	Gm08_9699873	8	9699873	17.40446	4.70E-08	0.06285
L	Gm08_9699956	8	9699956	18.8593	1.18E-08	0.063
L	Gm08_9904331	8	9904331	17.63068	3.77E-08	0.05976
L	Gm08_9907132	8	9907132	17.25085	5.33E-08	0.05791
L	Gm08_9908781	8	9908781	20.38872	2.87E-09	0.07107
L	Gm08_9909354	8	9909354	19.73133	5.34E-09	0.0692
L	Gm08_9957884	8	9957884	27.9773	2.71E-12	0.09218
L	Gm08_9957906	8	9957906	27.33933	4.80E-12	0.09084
L	Gm08_9957944	8	9957944	19.10493	9.56E-09	0.06736
L	Gm10_41380742	10	41380742	20.63308	2.28E-09	0.06988
a	Gm1_53132719	1	53132719	32.4321	4.63E-14	0.11038
a	Gm1_53140013	1	53140013	30.8588	1.96E-13	0.10549
a	Gm1_53140101	1	53140101	32.56163	4.15E-14	0.11189
a	Gm1_53140191	1	53140191	31.23143	1.36E-13	0.10709
a	Gm1_53140210	1	53140210	28.93973	1.11E-12	0.10215
a	Gm1_53140448	1	53140448	36.98528	8.28E-16	0.1363
a	Gm1_53140503	1	53140503	33.44312	1.90E-14	0.12459
a	Gm1_53140742	1	53140742	28.39014	1.80E-12	0.10157
a	Gm1_53140888	1	53140888	33.21792	2.53E-14	0.12341
a	Gm1_53141084	1	53141084	37.93233	3.77E-16	0.13494
a	Gm1_53141204	1	53141204	31.84009	8.53E-14	0.11878
a	Gm1_53141260	1	53141260	33.63409	1.75E-14	0.12218
a	Gm1_53141323	1	53141323	29.29313	8.47E-13	0.11144
a	Gm1_53141642	1	53141642	28.60071	1.58E-12	0.11295
a	Gm1_53141754	1	53141754	34.97383	5.07E-15	0.12304
a	Gm1_53142032	1	53142032	28.19701	2.14E-12	0.09672
a	Gm1_53142062	1	53142062	33.36674	2.08E-14	0.11916
a	Gm1_53142914	1	53142914	28.70829	1.33E-12	0.10834
a	Gm1_53144842	1	53144842	32.50952	4.44E-14	0.11587
a	Gm1_53145100	1	53145100	30.45219	2.75E-13	0.10869
a	Gm1_53145103	1	53145103	30.36232	2.96E-13	0.10841
a	Gm1_53145271	1	53145271	30.8414	2.01E-13	0.11411
a	Gm1_53145536	1	53145536	32.66151	3.78E-14	0.11107
a	Gm1_53146496	1	53146496	27.51746	4.12E-12	0.10295
a	Gm1_53149343	1	53149343	31.97426	7.28E-14	0.11536
a	Gm1_53149423	1	53149423	34.23984	9.90E-15	0.12103
a	Gm1_53149476	1	53149476	31.72044	9.14E-14	0.11471
a	Gm1_53149981	1	53149981	35.88666	2.08E-15	0.12516
a	Gm1_53150149	1	53150149	30.90541	1.76E-13	0.10955
a	Gm1_53150283	1	53150283	29.20011	8.74E-13	0.11028
a	Gm1_53150925	1	53150925	23.17658	2.21E-10	0.09532
a	Gm1_53151638	1	53151638	29.58816	6.06E-13	0.11046

a	Gm1_53153152	1	53153152	30.06867	4.09E-13	0.11258
a	Gm1_53154933	1	53154933	27.41955	4.58E-12	0.10119
a	Gm1_53155372	1	53155372	33.53047	1.76E-14	0.11924
a	Gm1_53165181	1	53165181	38.53461	2.29E-16	0.13713
a	Gm1_53165392	1	53165392	36.49172	1.36E-15	0.13095
a	Gm1_53165703	1	53165703	33.03217	2.91E-14	0.12695
a	Gm1_53264416	1	53264416	17.84624	3.04E-08	0.06153
a	Gm1_53264444	1	53264444	22.08521	5.80E-10	0.07501
a	Gm1_53281296	1	53281296	16.96161	7.21E-08	0.06414
a	Gm1_53283799	1	53283799	16.68293	9.28E-08	0.05874
a	Gm1_53284034	1	53284034	19.88781	4.60E-09	0.06618
a	Gm1_53288565	1	53288565	17.0225	6.85E-08	0.06592
a	Gm1_53296286	1	53296286	22.97218	2.56E-10	0.08051
a	Gm1_53296575	1	53296575	21.79612	7.82E-10	0.08037
a	Gm1_53300938	1	53300938	22.59256	3.74E-10	0.07686
a	Gm1_53305683	1	53305683	18.2954	2.03E-08	0.06513
a	Gm1_53305705	1	53305705	17.69046	3.57E-08	0.06235
a	Gm1_53323032	1	53323032	21.24496	1.32E-09	0.07769
a	Gm1_53326659	1	53326659	17.29816	5.17E-08	0.05919
a	Gm1_53327488	1	53327488	18.34665	1.93E-08	0.06628
a	Gm1_53327536	1	53327536	17.99704	2.62E-08	0.06258
a	Gm1_53328322	1	53328322	16.79749	8.37E-08	0.06342
a	Gm1_53328998	1	53328998	19.41035	7.12E-09	0.06943
a	Gm1_53329000	1	53329000	17.01562	6.75E-08	0.06035
a	Gm1_53329063	1	53329063	18.26738	2.09E-08	0.06735
a	Gm1_53329697	1	53329697	17.44369	4.47E-08	0.06071
a	Gm1_53329730	1	53329730	20.23166	3.24E-09	0.07104
a	Gm1_53329799	1	53329799	20.78741	1.94E-09	0.07306
a	Gm1_53329967	1	53329967	20.85236	1.87E-09	0.07235
a	Gm1_53330129	1	53330129	19.43083	6.92E-09	0.06812
a	Gm1_53330649	1	53330649	23.59243	1.51E-10	0.08526
a	Gm1_53332499	1	53332499	18.88586	1.19E-08	0.06854
a	Gm1_53335259	1	53335259	22.90922	2.87E-10	0.07992
a	Gm1_53335306	1	53335306	20.17544	3.47E-09	0.06829
a	Gm1_53335309	1	53335309	21.08587	1.47E-09	0.06937
a	Gm1_53349589	1	53349589	23.58541	1.52E-10	0.08266
a	Gm1_53353044	1	53353044	18.59398	1.52E-08	0.06487
a	Gm1_53388497	1	53388497	16.68387	9.26E-08	0.05744
a	Gm1_53391288	1	53391288	16.88872	7.46E-08	0.05653
a	Gm1_53393776	1	53393776	23.06274	2.32E-10	0.07466
a	Gm1_53394228	1	53394228	18.1196	2.33E-08	0.06115
a	Gm1_53396128	1	53396128	19.98482	4.11E-09	0.07023
a	Gm1_53396771	1	53396771	22.92628	2.73E-10	0.07995
a	Gm1_53397038	1	53397038	18.52602	1.61E-08	0.06467
a	Gm1_53406749	1	53406749	16.76944	8.57E-08	0.06187
a	Gm1_53408616	1	53408616	17.11804	5.99E-08	0.05857

a	Gm1_53423278	1	53423278	19.84376	4.89E-09	0.07314
a	Gm1_53465174	1	53465174	32.74008	3.35E-14	0.10831
a	Gm1_53465802	1	53465802	20.44958	2.72E-09	0.07419
a	Gm1_53466372	1	53466372	23.11751	2.29E-10	0.08388
a	Gm1_53466532	1	53466532	34.90951	4.51E-15	0.10938
a	Gm1_53472972	1	53472972	30.18447	3.74E-13	0.10716
a	Gm1_53473238	1	53473238	37.0093	8.45E-16	0.13361
a	Gm1_53473980	1	53473980	27.84601	3.09E-12	0.10344
a	Gm1_53474017	1	53474017	30.23064	3.61E-13	0.11242
a	Gm1_53474834	1	53474834	26.71058	8.46E-12	0.0977
a	Gm1_53476169	1	53476169	27.54826	3.96E-12	0.10359
a	Gm1_53476338	1	53476338	32.92367	3.09E-14	0.11198
a	Gm1_53481184	1	53481184	28.96174	1.14E-12	0.10874
a	Gm1_53516953	1	53516953	27.20559	5.46E-12	0.09495
a	Gm1_53517481	1	53517481	24.46648	6.76E-11	0.08972
a	Gm1_53519145	1	53519145	31.69631	9.48E-14	0.11398
a	Gm1_53519772	1	53519772	27.90643	2.82E-12	0.09859
a	Gm1_53521896	1	53521896	36.76572	1.04E-15	0.12881
a	Gm1_53522148	1	53522148	30.16199	3.82E-13	0.10922
a	Gm1_53527256	1	53527256	27.19287	5.56E-12	0.10128
a	Gm1_53527307	1	53527307	25.21555	3.43E-11	0.08509
a	Gm1_53535466	1	53535466	16.68016	9.32E-08	0.06151
a	Gm1_53536754	1	53536754	23.65672	1.36E-10	0.08276
a	Gm1_53538886	1	53538886	21.98342	6.34E-10	0.07731
a	Gm1_53541675	1	53541675	28.32097	1.92E-12	0.09183
a	Gm1_53542808	1	53542808	23.03975	2.48E-10	0.08454
a	Gm1_53549300	1	53549300	21.76704	7.83E-10	0.08016
a	Gm1_53549399	1	53549399	23.53643	1.56E-10	0.08297
a	Gm1_53549405	1	53549405	24.76197	4.97E-11	0.08647
a	Gm1_53549464	1	53549464	19.78907	5.02E-09	0.07085
a	Gm1_53552805	1	53552805	25.32689	2.98E-11	0.08769
a	Gm1_53553202	1	53553202	25.18452	3.50E-11	0.09405
a	Gm1_53556308	1	53556308	17.82264	3.17E-08	0.0697
a	Gm1_53556995	1	53556995	30.65162	2.24E-13	0.10206
a	Gm1_53557884	1	53557884	23.02559	2.43E-10	0.08327
a	Gm1_53562906	1	53562906	23.19697	2.16E-10	0.08105
a	Gm1_53564370	1	53564370	25.73058	1.98E-11	0.0908
a	Gm1_53565559	1	53565559	28.5174	1.64E-12	0.09972
a	Gm1_53566836	1	53566836	21.56826	9.74E-10	0.07918
a	Gm1_53569589	1	53569589	28.88523	1.21E-12	0.1062
a	Gm1_53570148	1	53570148	23.97575	1.04E-10	0.08596
a	Gm1_53572325	1	53572325	18.68812	1.40E-08	0.06793
a	Gm1_53572817	1	53572817	31.68523	9.20E-14	0.11242
a	Gm1_53574144	1	53574144	27.48656	4.25E-12	0.09898
a	Gm1_53578958	1	53578958	26.19499	1.35E-11	0.09565
a	Gm1_53580177	1	53580177	21.79479	8.09E-10	0.08695

a	Gm1_53582023	1	53582023	27.90943	2.82E-12	0.09838
a	Gm1_53582217	1	53582217	24.0517	9.71E-11	0.08284
a	Gm1_53582711	1	53582711	21.17024	1.37E-09	0.07771
a	Gm1_53582740	1	53582740	19.82133	4.86E-09	0.07653
a	Gm1_53584068	1	53584068	25.73623	2.04E-11	0.08889
a	Gm1_53584201	1	53584201	26.46906	1.02E-11	0.08907
a	Gm1_53584853	1	53584853	25.51861	2.48E-11	0.09092
a	Gm1_53584885	1	53584885	27.88769	2.88E-12	0.09949
a	Gm1_53584924	1	53584924	27.37676	4.56E-12	0.09565
a	Gm1_53587149	1	53587149	25.85194	1.76E-11	0.0844
a	Gm1_53587271	1	53587271	24.86921	4.56E-11	0.08732
a	Gm1_53589728	1	53589728	29.74342	5.22E-13	0.09818
a	Gm1_53591901	1	53591901	31.29505	1.38E-13	0.1056
a	Gm1_53594231	1	53594231	28.11919	2.42E-12	0.10536
a	Gm1_53594901	1	53594901	20.58587	2.34E-09	0.07433
a	Gm1_53594926	1	53594926	20.84181	1.87E-09	0.07574
a	Gm1_53595365	1	53595365	25.74819	2.09E-11	0.09798
a	Gm1_53596027	1	53596027	19.31034	7.77E-09	0.07061
a	Gm1_53596248	1	53596248	25.59612	2.32E-11	0.08978
a	Gm1_53596280	1	53596280	27.71864	3.28E-12	0.09325
a	Gm1_53596304	1	53596304	27.92331	2.64E-12	0.09686
a	Gm1_53596499	1	53596499	28.10199	2.33E-12	0.09502
a	Gm1_53596670	1	53596670	18.76043	1.32E-08	0.07145
a	Gm1_53596803	1	53596803	21.08934	1.54E-09	0.08107
a	Gm1_53597626	1	53597626	20.97512	1.72E-09	0.07857
a	Gm1_53608090	1	53608090	26.98385	6.39E-12	0.09241
a	Gm1_53608898	1	53608898	22.58538	3.70E-10	0.08279
a	Gm1_53618855	1	53618855	29.00921	1.04E-12	0.10418
a	Gm1_53618879	1	53618879	26.97902	6.69E-12	0.09892
a	Gm1_53618883	1	53618883	26.42957	1.10E-11	0.09616
a	Gm1_53618915	1	53618915	28.72863	1.31E-12	0.10043
a	Gm1_53619081	1	53619081	25.78215	2.00E-11	0.09068
a	Gm1_53619304	1	53619304	27.68382	3.56E-12	0.10288
a	Gm1_53619311	1	53619311	27.91562	2.90E-12	0.10146
a	Gm1_53621832	1	53621832	25.15741	3.57E-11	0.09903
a	Gm1_53741496	1	53741496	17.49047	4.38E-08	0.06156
a	Gm1_53745297	1	53745297	18.13683	2.39E-08	0.06571
a	Gm1_54152689	1	54152689	19.39697	7.21E-09	0.06683
a	Gm08_7820505	8	7820505	20.61086	2.37E-09	0.07719
a	Gm08_7871477	8	7871477	17.95924	2.81E-08	0.06493
a	Gm08_7871492	8	7871492	17.94841	2.78E-08	0.06401
a	Gm08_7879285	8	7879285	22.33986	4.47E-10	0.08009
a	Gm08_7880131	8	7880131	22.23316	5.17E-10	0.07362
a	Gm08_7880175	8	7880175	33.00048	2.93E-14	0.11204
a	Gm08_7883290	8	7883290	21.98972	6.39E-10	0.07505
a	Gm08_7888960	8	7888960	18.87816	1.15E-08	0.06516

a	Gm08_7890026	8	7890026	30.9805	1.77E-13	0.10384
a	Gm08_7903178	8	7903178	17.37112	4.82E-08	0.05911
a	Gm08_7985936	8	7985936	25.35618	2.80E-11	0.08574
a	Gm08_7989738	8	7989738	23.4523	1.71E-10	0.0871
a	Gm08_7993878	8	7993878	23.5438	1.56E-10	0.08451
a	Gm08_8000375	8	8000375	26.47673	1.07E-11	0.09252
a	Gm08_8000994	8	8000994	26.34117	1.17E-11	0.09
a	Gm08_8001123	8	8001123	29.80765	5.30E-13	0.10807
a	Gm08_8001396	8	8001396	22.09481	5.78E-10	0.07802
a	Gm08_8002535	8	8002535	18.90792	1.17E-08	0.07212
a	Gm08_8006240	8	8006240	39.53054	6.53E-10	0.0717
a	Gm08_8006736	8	8006736	25.35317	2.92E-11	0.09282
a	Gm08_8008583	8	8008583	21.7729	7.95E-10	0.08346
a	Gm08_8019129	8	8019129	34.54069	6.91E-15	0.11118
a	Gm08_8024427	8	8024427	23.05767	2.48E-10	0.08913
a	Gm08_8031082	8	8031082	26.96803	6.75E-12	0.09618
a	Gm08_8046226	8	8046226	18.93422	1.15E-08	0.07436
a	Gm08_8046406	8	8046406	25.81448	1.80E-11	0.08397
a	Gm08_8046490	8	8046490	18.29436	2.00E-08	0.0614
a	Gm08_8047991	8	8047991	20.15506	3.53E-09	0.07148
a	Gm08_8047994	8	8047994	17.91964	2.85E-08	0.06166
a	Gm08_8048234	8	8048234	20.28267	3.18E-09	0.07016
a	Gm08_8048294	8	8048294	24.00678	1.02E-10	0.08228
a	Gm08_8052282	8	8052282	32.12822	6.48E-14	0.11694
a	Gm08_8052324	8	8052324	27.35828	4.78E-12	0.09654
a	Gm08_8052330	8	8052330	29.37705	7.59E-13	0.10366
a	Gm08_8052396	8	8052396	32.81693	3.68E-14	0.11946
a	Gm08_8052534	8	8052534	27.63819	3.77E-12	0.10476
a	Gm08_8052705	8	8052705	27.62256	3.71E-12	0.09991
a	Gm08_8052717	8	8052717	25.82228	1.91E-11	0.09645
a	Gm08_8053376	8	8053376	99.52811	1.21E-21	0.18353
a	Gm08_8053477	8	8053477	44.02736	1.77E-18	0.15465
a	Gm08_8055772	8	8055772	31.10172	1.64E-13	0.10916
a	Gm08_8056510	8	8056510	36.31425	1.50E-15	0.13153
a	Gm08_8059083	8	8059083	21.2648	1.26E-09	0.07174
a	Gm08_8059184	8	8059184	30.86699	2.03E-13	0.10862
a	Gm08_8062435	8	8062435	33.44517	2.01E-14	0.1153
a	Gm08_8065674	8	8065674	29.57982	6.02E-13	0.10705
a	Gm08_8066335	8	8066335	31.93692	7.20E-14	0.11356
a	Gm08_8066589	8	8066589	28.19889	2.23E-12	0.1014
a	Gm08_8069365	8	8069365	36.27688	1.57E-15	0.12353
a	Gm08_8069576	8	8069576	20.35766	2.97E-09	0.07433
a	Gm08_8069606	8	8069606	16.61738	9.84E-08	0.0575
a	Gm08_8081879	8	8081879	38.17009	2.89E-16	0.1396
a	Gm08_8083031	8	8083031	28.48734	1.69E-12	0.10194
a	Gm08_8092329	8	8092329	56.76778	3.93E-23	0.20602

a	Gm08_8095282	8	8095282	18.69359	1.38E-08	0.06411
a	Gm08_8095794	8	8095794	36.41272	1.41E-15	0.12227
a	Gm08_8096014	8	8096014	36.73106	1.07E-15	0.12496
a	Gm08_8097408	8	8097408	17.13352	5.98E-08	0.06352
a	Gm08_8098887	8	8098887	17.60688	3.90E-08	0.06612
a	Gm08_8099353	8	8099353	32.35167	4.97E-14	0.11675
a	Gm08_8100194	8	8100194	28.48109	1.80E-12	0.10449
a	Gm08_8101680	8	8101680	33.4636	1.95E-14	0.11815
a	Gm08_8110318	8	8110318	34.38483	8.47E-15	0.11847
a	Gm08_8116360	8	8116360	20.87477	1.79E-09	0.07533
a	Gm08_8119553	8	8119553	20.74782	2.02E-09	0.07292
a	Gm08_8120036	8	8120036	17.28679	5.29E-08	0.06287
a	Gm08_8120071	8	8120071	17.53701	4.17E-08	0.06433
a	Gm08_8120173	8	8120173	16.97131	6.97E-08	0.05804
a	Gm08_8137968	8	8137968	17.98863	2.69E-08	0.06436
a	Gm08_8137991	8	8137991	21.86701	7.12E-10	0.07551
a	Gm08_8138117	8	8138117	23.37389	1.85E-10	0.0934
a	Gm08_8138303	8	8138303	24.06665	9.79E-11	0.09132
a	Gm08_8138630	8	8138630	19.65304	5.74E-09	0.07492
a	Gm08_8138718	8	8138718	19.78447	5.04E-09	0.07016
a	Gm08_8138722	8	8138722	19.41649	7.04E-09	0.06856
a	Gm08_8138742	8	8138742	19.85134	4.64E-09	0.06829
a	Gm08_8138760	8	8138760	17.7681	3.31E-08	0.06289
a	Gm08_8138765	8	8138765	19.67475	5.50E-09	0.06895
a	Gm08_8138772	8	8138772	20.13361	3.60E-09	0.07021
a	Gm08_8138789	8	8138789	18.09884	2.45E-08	0.06459
a	Gm08_8138857	8	8138857	21.20756	1.36E-09	0.07713
a	Gm08_8139011	8	8139011	20.69289	2.16E-09	0.07757
a	Gm08_8139118	8	8139118	20.6116	2.34E-09	0.07281
a	Gm08_8139123	8	8139123	20.12001	3.68E-09	0.07106
a	Gm08_8139138	8	8139138	18.79175	1.28E-08	0.06752
a	Gm08_8139190	8	8139190	17.03184	6.70E-08	0.06315
a	Gm08_8139470	8	8139470	22.90792	2.74E-10	0.08355
a	Gm08_8139574	8	8139574	26.83837	7.20E-12	0.09348
a	Gm08_8139626	8	8139626	26.6674	8.78E-12	0.09368
a	Gm08_8139641	8	8139641	26.98996	6.61E-12	0.09814
a	Gm08_8139666	8	8139666	25.096	3.60E-11	0.08677
a	Gm08_8139743	8	8139743	26.86696	7.13E-12	0.09331
a	Gm08_8157061	8	8157061	45.59759	4.89E-19	0.16992
a	Gm08_8172987	8	8172987	17.22162	5.64E-08	0.06314
a	Gm08_8188522	8	8188522	26.12668	1.44E-11	0.09521
a	Gm08_8188523	8	8188523	23.39289	1.78E-10	0.08854
a	Gm08_8190124	8	8190124	21.41252	1.11E-09	0.07957
a	Gm08_8190497	8	8190497	28.2933	2.03E-12	0.10319
a	Gm08_8190546	8	8190546	26.97048	6.66E-12	0.09494
a	Gm08_8191127	8	8191127	54.26291	2.57E-22	0.1877

a	Gm08_8191455	8	8191455	19.88168	4.66E-09	0.08135
a	Gm08_8191743	8	8191743	30.70616	2.25E-13	0.11031
a	Gm08_8192436	8	8192436	23.94046	1.11E-10	0.08519
a	Gm08_8193398	8	8193398	32.07727	6.52E-14	0.11747
a	Gm08_8193403	8	8193403	33.06092	2.79E-14	0.12479
a	Gm08_8193696	8	8193696	23.73424	1.25E-10	0.08604
a	Gm08_8194523	8	8194523	26.33163	1.20E-11	0.08795
a	Gm08_8195742	8	8195742	59.23064	5.29E-24	0.21169
a	Gm08_8196111	8	8196111	23.09513	2.32E-10	0.08211
a	Gm08_8196565	8	8196565	25.80469	1.85E-11	0.08708
a	Gm08_8196909	8	8196909	24.28742	7.94E-11	0.08665
a	Gm08_8197293	8	8197293	62.46744	3.94E-25	0.22261
a	Gm08_8197709	8	8197709	27.13641	5.48E-12	0.09148
a	Gm08_8198228	8	8198228	26.16977	1.40E-11	0.09141
a	Gm08_8198246	8	8198246	28.4886	1.70E-12	0.10212
a	Gm08_8199605	8	8199605	25.62174	2.24E-11	0.08693
a	Gm08_8199626	8	8199626	54.87779	1.68E-22	0.1923
a	Gm08_8199882	8	8199882	63.01052	2.00E-25	0.21401
a	Gm08_8200063	8	8200063	33.77546	1.37E-14	0.12091
a	Gm08_8200230	8	8200230	66.54907	1.05E-26	0.22753
a	Gm08_8200825	8	8200825	53.97197	2.98E-22	0.18669
a	Gm08_8201008	8	8201008	53.47303	5.71E-22	0.18542
a	Gm08_8201272	8	8201272	28.11954	2.15E-12	0.09275
a	Gm08_8201476	8	8201476	56.87079	2.84E-23	0.19148
a	Gm08_8201501	8	8201501	58.56289	7.46E-24	0.20025
a	Gm08_8201849	8	8201849	58.96827	4.87E-24	0.2029
a	Gm08_8202357	8	8202357	55.8385	6.69E-23	0.18878
a	Gm08_8202427	8	8202427	24.95487	4.02E-11	0.08064
a	Gm08_8202907	8	8202907	25.88654	1.78E-11	0.09139
a	Gm08_8203074	8	8203074	54.75207	1.86E-22	0.19715
a	Gm08_8203593	8	8203593	24.24051	7.91E-11	0.0834
a	Gm08_8204027	8	8204027	18.10291	2.46E-08	0.06642
a	Gm08_8204715	8	8204715	24.21	8.02E-11	0.08107
a	Gm08_8204961	8	8204961	57.8582	1.61E-23	0.19923
a	Gm08_8205513	8	8205513	25.11747	3.66E-11	0.0903
a	Gm08_8205579	8	8205579	24.5163	6.16E-11	0.08475
a	Gm08_8205602	8	8205602	27.38402	4.59E-12	0.09723
a	Gm08_8205748	8	8205748	26.43924	1.09E-11	0.09243
a	Gm08_8209460	8	8209460	25.76386	1.99E-11	0.09175
a	Gm08_8210825	8	8210825	19.87766	4.53E-09	0.06645
a	Gm08_8214801	8	8214801	25.72942	2.10E-11	0.09368
a	Gm08_8216666	8	8216666	52.67236	1.19E-21	0.19232
a	Gm08_8217631	8	8217631	20.82127	1.85E-09	0.06778
a	Gm08_8230569	8	8230569	16.73542	8.63E-08	0.05618
a	Gm08_8232667	8	8232667	17.94633	2.79E-08	0.06493
a	Gm08_8232993	8	8232993	26.2471	1.20E-11	0.08575

a	Gm08_8233645	8	8233645	19.65519	5.59E-09	0.06722
a	Gm08_8236097	8	8236097	19.10626	9.65E-09	0.07305
a	Gm08_8236244	8	8236244	21.31554	1.18E-09	0.0754
a	Gm08_8236763	8	8236763	22.47646	3.97E-10	0.07627
a	Gm08_8236862	8	8236862	17.53097	4.08E-08	0.06034
a	Gm08_8236894	8	8236894	19.16038	8.95E-09	0.06301
a	Gm08_8237654	8	8237654	24.50122	6.19E-11	0.08404
a	Gm08_8238668	8	8238668	27.8087	3.08E-12	0.09901
a	Gm08_8241224	8	8241224	61.86726	5.94E-25	0.23116
a	Gm08_8241247	8	8241247	20.90042	1.82E-09	0.07651
a	Gm08_8242850	8	8242850	53.43532	6.25E-22	0.18595
a	Gm08_8243491	8	8243491	50.72471	6.40E-21	0.18739
a	Gm08_8244136	8	8244136	58.60278	6.76E-24	0.20489
a	Gm08_8245354	8	8245354	24.48897	6.44E-11	0.08395
a	Gm08_8245529	8	8245529	59.15486	4.24E-24	0.20397
a	Gm08_8259822	8	8259822	62.43906	2.60E-25	0.2041
a	Gm08_8267574	8	8267574	47.27098	1.17E-19	0.17026
a	Gm08_8267782	8	8267782	20.53745	2.52E-09	0.07988
a	Gm08_8270790	8	8270790	23.96906	1.05E-10	0.08812
a	Gm08_8270797	8	8270797	22.16051	5.61E-10	0.08436
a	Gm08_8285621	8	8285621	29.50517	6.87E-13	0.1027
a	Gm08_8285888	8	8285888	60.09485	2.29E-24	0.20899
a	Gm08_8288351	8	8288351	20.77232	1.97E-09	0.07289
a	Gm08_8289333	8	8289333	22.15299	5.64E-10	0.08243
a	Gm08_8289797	8	8289797	20.61868	2.35E-09	0.0761
a	Gm08_8300721	8	8300721	21.19471	1.34E-09	0.07312
a	Gm08_8303360	8	8303360	28.25064	2.06E-12	0.09661
a	Gm08_8303757	8	8303757	20.72137	2.08E-09	0.07389
a	Gm08_8303996	8	8303996	21.93853	6.90E-10	0.08236
a	Gm08_8306163	8	8306163	59.49572	4.29E-24	0.22337
a	Gm08_8306355	8	8306355	19.3868	7.34E-09	0.07241
a	Gm08_8306458	8	8306458	26.12593	1.41E-11	0.09513
a	Gm08_8306806	8	8306806	25.44986	2.68E-11	0.09231
a	Gm08_8311989	8	8311989	55.51107	9.99E-23	0.19408
a	Gm08_8312343	8	8312343	48.82808	2.59E-20	0.17173
a	Gm08_8313215	8	8313215	49.99342	9.15E-21	0.17067
a	Gm08_8313241	8	8313241	46.26137	2.53E-19	0.16633
a	Gm08_8313428	8	8313428	45.26629	6.73E-19	0.17112
a	Gm08_8313640	8	8313640	40.9015	2.78E-17	0.14928
a	Gm08_8314161	8	8314161	20.76293	1.97E-09	0.06932
a	Gm08_8314707	8	8314707	52.98694	9.04E-22	0.19447
a	Gm08_8314788	8	8314788	58.78118	6.27E-24	0.20451
a	Gm08_8314827	8	8314827	54.90644	1.52E-22	0.20003
a	Gm08_8314987	8	8314987	57.93379	1.46E-23	0.2127
a	Gm08_8316860	8	8316860	67.05631	8.80E-27	0.23685
a	Gm08_8317008	8	8317008	18.88232	1.18E-08	0.06671

a	Gm08_8317597	8	8317597	25.17617	3.36E-11	0.08912
a	Gm08_8318754	8	8318754	24.66668	5.60E-11	0.09011
a	Gm08_8318759	8	8318759	23.84871	1.20E-10	0.08854
a	Gm08_8318837	8	8318837	58.41451	1.03E-23	0.20363
a	Gm08_8318895	8	8318895	23.23281	2.05E-10	0.07911
a	Gm08_8318933	8	8318933	23.12024	2.27E-10	0.07973
a	Gm08_8319060	8	8319060	48.96046	2.88E-20	0.18578
a	Gm08_8319085	8	8319085	55.94875	7.69E-23	0.20911
a	Gm08_8319087	8	8319087	53.57419	5.91E-22	0.20237
a	Gm08_8319115	8	8319115	57.29182	2.48E-23	0.21155
a	Gm08_8319708	8	8319708	16.9293	7.23E-08	0.05764
a	Gm08_8319732	8	8319732	55.4352	1.21E-22	0.19062
a	Gm08_8319744	8	8319744	53.75257	4.76E-22	0.18664
a	Gm08_8319787	8	8319787	56.31215	5.55E-23	0.19843
a	Gm08_8319795	8	8319795	56.42549	4.66E-23	0.19012
a	Gm08_8319799	8	8319799	22.97073	2.58E-10	0.07772
a	Gm08_8319817	8	8319817	59.63958	3.64E-24	0.20298
a	Gm08_8319867	8	8319867	54.63315	2.39E-22	0.19313
a	Gm08_8319899	8	8319899	18.97357	1.08E-08	0.06896
a	Gm08_8320923	8	8320923	20.93081	1.74E-09	0.07649
a	Gm08_8321558	8	8321558	23.11126	2.25E-10	0.07978
a	Gm08_8322185	8	8322185	58.89378	6.97E-24	0.20629
a	Gm08_8322357	8	8322357	60.27645	1.92E-24	0.19855
a	Gm08_8323966	8	8323966	18.61031	1.48E-08	0.06355
a	Gm08_8323971	8	8323971	60.63754	1.43E-24	0.20751
a	Gm08_8323983	8	8323983	53.81386	4.20E-22	0.18576
a	Gm08_8324392	8	8324392	52.39602	1.19E-21	0.17735
a	Gm08_8325103	8	8325103	17.26416	5.28E-08	0.06167
a	Gm08_8327519	8	8327519	22.77669	3.01E-10	0.07901
a	Gm08_8327990	8	8327990	17.27735	5.34E-08	0.06438
a	Gm08_8328261	8	8328261	58.05879	1.23E-23	0.2006
a	Gm08_8328354	8	8328354	20.65317	2.27E-09	0.07386
a	Gm08_8328392	8	8328392	19.23834	8.39E-09	0.07132
a	Gm08_8328540	8	8328540	28.29369	2.05E-12	0.09938
a	Gm08_8329538	8	8329538	17.96276	2.77E-08	0.06394
a	Gm08_8330059	8	8330059	17.78298	3.37E-08	0.07398
a	Gm08_8346276	8	8346276	17.70645	3.57E-08	0.06576
a	Gm08_8348346	8	8348346	23.61358	1.48E-10	0.09959
a	Gm08_8354601	8	8354601	26.26912	1.26E-11	0.09492
a	Gm08_8360663	8	8360663	40.81589	2.57E-17	0.14041
a	Gm08_8364457	8	8364457	22.22005	5.01E-10	0.08026
a	Gm08_8368519	8	8368519	25.97562	1.61E-11	0.08817
a	Gm08_8368552	8	8368552	48.65432	3.01E-20	0.16466
a	Gm08_8371230	8	8371230	81.6106	7.21E-32	0.29588
a	Gm08_8373581	8	8373581	72.8552	4.42E-29	0.24521
a	Gm08_8374519	8	8374519	66.2437	1.62E-26	0.24615

a	Gm08_8374643	8	8374643	60.47483	1.92E-24	0.20989
a	Gm08_8374655	8	8374655	34.5166	7.53E-15	0.11853
a	Gm08_8374738	8	8374738	58.02831	1.45E-23	0.21792
a	Gm08_8374743	8	8374743	27.8181	3.14E-12	0.10607
a	Gm08_8375080	8	8375080	35.11861	4.20E-15	0.12364
a	Gm08_8375124	8	8375124	34.68758	6.41E-15	0.12897
a	Gm08_8375522	8	8375522	28.02844	2.47E-12	0.09411
a	Gm08_8375603	8	8375603	35.38145	3.30E-15	0.11387
a	Gm08_8375666	8	8375666	70.1443	4.05E-28	0.21999
a	Gm08_8376085	8	8376085	56.30808	4.94E-23	0.19939
a	Gm08_8377404	8	8377404	29.72871	5.35E-13	0.10516
a	Gm08_8377783	8	8377783	59.92585	2.93E-24	0.21681
a	Gm08_8378225	8	8378225	53.54101	6.37E-22	0.20821
a	Gm08_8379915	8	8379915	31.9856	6.76E-14	0.10898
a	Gm08_8380062	8	8380062	34.69452	5.39E-15	0.11386
a	Gm08_8380544	8	8380544	38.37598	2.07E-16	0.1243
a	Gm08_8380771	8	8380771	37.18451	6.26E-16	0.12628
a	Gm08_8380778	8	8380778	37.545	4.55E-16	0.12685
a	Gm08_8380797	8	8380797	40.54274	3.25E-17	0.13118
a	Gm08_8380961	8	8380961	41.08578	2.01E-17	0.14454
a	Gm08_8380988	8	8380988	38.35621	2.29E-16	0.13376
a	Gm08_8381058	8	8381058	67.33841	4.84E-27	0.22206
a	Gm08_8381111	8	8381111	33.91797	1.12E-14	0.11142
a	Gm08_8381483	8	8381483	33.87742	1.12E-14	0.10621
a	Gm08_8381494	8	8381494	33.86871	1.12E-14	0.10516
a	Gm08_8381764	8	8381764	69.89514	5.06E-28	0.22429
a	Gm08_8390797	8	8390797	68.54825	1.02E-27	0.20237
a	Gm08_8391476	8	8391476	26.66257	7.51E-12	0.08077
a	Gm08_8391589	8	8391589	23.80274	1.08E-10	0.07266
a	Gm08_8391636	8	8391636	19.81464	4.68E-09	0.0684
a	Gm08_8391703	8	8391703	28.85949	9.75E-13	0.08748
a	Gm08_8392065	8	8392065	28.42177	1.42E-12	0.08387
a	Gm08_8392089	8	8392089	26.1708	1.13E-11	0.07632
a	Gm08_8392458	8	8392458	27.57864	3.09E-12	0.08336
a	Gm08_8392597	8	8392597	70.31461	4.16E-16	0.1135
a	Gm08_8392883	8	8392883	29.13851	7.70E-13	0.08946
a	Gm08_8393576	8	8393576	62.52088	1.72E-25	0.20428
a	Gm08_8393771	8	8393771	43.18884	3.42E-18	0.14145
a	Gm08_8393781	8	8393781	40.92173	2.79E-17	0.14133
a	Gm08_8394768	8	8394768	28.86184	1.10E-12	0.09057
a	Gm08_8394915	8	8394915	79.31815	2.59E-31	0.25452
a	Gm08_8395520	8	8395520	28.09752	2.20E-12	0.09085
a	Gm08_8398559	8	8398559	71.93058	1.06E-28	0.24654
a	Gm08_8399515	8	8399515	73.68821	2.10E-29	0.24897
a	Gm08_8399983	8	8399983	19.94401	4.16E-09	0.07164
a	Gm08_8400595	8	8400595	88.72609	1.70E-34	0.28497

a	Gm08_8402470	8	8402470	38.50136	1.06E-09	0.06788
a	Gm08_8402471	8	8402471	38.71271	9.59E-10	0.06864
a	Gm08_8420033	8	8420033	63.4084	1.39E-25	0.22496
a	Gm08_8431993	8	8431993	17.18283	5.76E-08	0.06248
a	Gm08_8435735	8	8435735	21.59735	9.20E-10	0.0717
a	Gm08_8438870	8	8438870	70.63375	5.42E-28	0.24265
a	Gm08_8438876	8	8438876	33.18139	2.57E-14	0.11705
a	Gm08_8438936	8	8438936	34.65676	6.72E-15	0.12641
a	Gm08_8439073	8	8439073	60.63164	1.74E-24	0.219
a	Gm08_8457731	8	8457731	31.06865	1.61E-13	0.10343
a	Gm08_8458705	8	8458705	21.77559	8.31E-10	0.08504
a	Gm08_8473227	8	8473227	64.94144	4.74E-26	0.23453
a	Gm08_8473291	8	8473291	19.25485	8.18E-09	0.06685
a	Gm08_8473662	8	8473662	24.21898	8.35E-11	0.08541
a	Gm08_8508518	8	8508518	29.06195	9.69E-13	0.10656
a	Gm08_8508773	8	8508773	20.25768	3.18E-09	0.07087
a	Gm08_8508776	8	8508776	18.98919	1.04E-08	0.06662
a	Gm08_8509645	8	8509645	21.95689	6.57E-10	0.07556
a	Gm08_8509775	8	8509775	26.83981	7.34E-12	0.09198
a	Gm08_8513329	8	8513329	55.20298	1.06E-22	0.18895
a	Gm08_8513330	8	8513330	56.35283	4.10E-23	0.19233
a	Gm08_8513350	8	8513350	34.12851	8.92E-15	0.10947
a	Gm08_8513390	8	8513390	64.23069	3.94E-26	0.19531
a	Gm08_8513442	8	8513442	64.53947	2.26E-26	0.19078
a	Gm08_8526593	8	8526593	48.01952	5.59E-20	0.16818
a	Gm08_8527558	8	8527558	23.5028	1.58E-10	0.08015
a	Gm08_8530246	8	8530246	23.29019	1.94E-10	0.07942
a	Gm08_8530715	8	8530715	44.36556	1.18E-18	0.14541
a	Gm08_8530785	8	8530785	23.88187	1.13E-10	0.08797
a	Gm08_8530811	8	8530811	28.35202	1.85E-12	0.09951
a	Gm08_8530829	8	8530829	28.18297	2.17E-12	0.10122
a	Gm08_8530878	8	8530878	46.912	1.42E-19	0.16597
a	Gm08_8531152	8	8531152	28.66456	1.49E-12	0.10584
a	Gm08_8531722	8	8531722	25.93664	1.71E-11	0.09776
a	Gm08_8531743	8	8531743	30.60433	2.42E-13	0.10505
a	Gm08_8531901	8	8531901	19.72956	5.16E-09	0.06738
a	Gm08_8531923	8	8531923	19.26356	8.07E-09	0.06905
a	Gm08_8532274	8	8532274	30.20571	3.68E-13	0.11553
a	Gm08_8532878	8	8532878	21.87588	7.13E-10	0.07445
a	Gm08_8534811	8	8534811	24.77222	5.05E-11	0.09067
a	Gm08_8535064	8	8535064	35.10263	4.04E-15	0.11697
a	Gm08_8535153	8	8535153	29.99619	4.04E-13	0.10547
a	Gm08_8535241	8	8535241	24.88032	4.40E-11	0.08858
a	Gm08_8535483	8	8535483	28.90878	1.10E-12	0.09774
a	Gm08_8535484	8	8535484	29.15442	8.83E-13	0.09837
a	Gm08_8535588	8	8535588	24.49328	6.35E-11	0.08527

a	Gm08_8536695	8	8536695	29.54106	6.42E-13	0.10148
a	Gm08_8537176	8	8537176	25.61933	2.38E-11	0.10319
a	Gm08_8537481	8	8537481	23.65112	1.34E-10	0.0841
a	Gm08_8537510	8	8537510	24.94378	4.08E-11	0.08623
a	Gm08_8537579	8	8537579	20.04348	3.87E-09	0.07025
a	Gm08_8538060	8	8538060	25.33186	2.91E-11	0.08852
a	Gm08_8538286	8	8538286	36.26163	1.63E-15	0.13565
a	Gm08_8538449	8	8538449	26.07354	1.50E-11	0.09144
a	Gm08_8539128	8	8539128	49.41156	1.73E-20	0.16754
a	Gm08_8539136	8	8539136	22.97326	2.54E-10	0.07694
a	Gm08_8539249	8	8539249	21.6903	8.51E-10	0.07734
a	Gm08_8539257	8	8539257	20.87566	1.82E-09	0.07629
a	Gm08_8539508	8	8539508	25.85238	1.84E-11	0.09588
a	Gm08_8539700	8	8539700	21.0849	1.51E-09	0.08055
a	Gm08_8540424	8	8540424	25.46026	2.63E-11	0.09228
a	Gm08_8540829	8	8540829	21.29438	1.23E-09	0.082
a	Gm08_8541020	8	8541020	25.41962	2.68E-11	0.0869
a	Gm08_8541224	8	8541224	24.17604	8.67E-11	0.08509
a	Gm08_8541531	8	8541531	25.75822	2.07E-11	0.09579
a	Gm08_8541533	8	8541533	26.63228	9.50E-12	0.1001
a	Gm08_8541663	8	8541663	21.85168	7.22E-10	0.07742
a	Gm08_8541967	8	8541967	26.68383	8.60E-12	0.09565
a	Gm08_8542721	8	8542721	25.39154	2.90E-11	0.09179
a	Gm08_8542855	8	8542855	22.84826	2.91E-10	0.08614
a	Gm08_8542910	8	8542910	23.42498	1.71E-10	0.08416
a	Gm08_8543168	8	8543168	20.42747	2.70E-09	0.07103
a	Gm08_8543284	8	8543284	19.94512	4.28E-09	0.07117
a	Gm08_8543287	8	8543287	19.14078	9.05E-09	0.06693
a	Gm08_8543674	8	8543674	23.08897	2.37E-10	0.0813
a	Gm08_8543708	8	8543708	28.04207	2.61E-12	0.09644
a	Gm08_8543723	8	8543723	24.0178	1.01E-10	0.0844
a	Gm08_8544856	8	8544856	25.42998	2.69E-11	0.08857
a	Gm08_8544857	8	8544857	27.22542	5.44E-12	0.09839
a	Gm08_8544869	8	8544869	24.28964	7.85E-11	0.08756
a	Gm08_8544870	8	8544870	23.9353	1.09E-10	0.08685
a	Gm08_8544931	8	8544931	42.92308	5.26E-18	0.18233
a	Gm08_8544941	8	8544941	19.1028	9.30E-09	0.07395
a	Gm08_8544945	8	8544945	21.24743	1.28E-09	0.08491
a	Gm08_8544951	8	8544951	19.36337	7.33E-09	0.07543
a	Gm08_8544975	8	8544975	17.02792	6.62E-08	0.06736
a	Gm08_8545043	8	8545043	26.17526	1.42E-11	0.10026
a	Gm08_8546329	8	8546329	24.3196	7.67E-11	0.0877
a	Gm08_8546381	8	8546381	23.93828	1.05E-10	0.08505
a	Gm08_8546496	8	8546496	26.34223	1.14E-11	0.09523
a	Gm08_8546538	8	8546538	26.99351	6.52E-12	0.09931
a	Gm08_8546690	8	8546690	24.05649	9.66E-11	0.09011

a	Gm08_8547836	8	8547836	23.36667	1.83E-10	0.08288
a	Gm08_8547881	8	8547881	21.50685	1.01E-09	0.07531
a	Gm08_8547902	8	8547902	24.93929	4.26E-11	0.08917
a	Gm08_8548478	8	8548478	26.28851	1.24E-11	0.10096
a	Gm08_8549536	8	8549536	20.32407	3.07E-09	0.07671
a	Gm08_8549697	8	8549697	19.55507	6.32E-09	0.08206
a	Gm08_8550166	8	8550166	23.42775	1.74E-10	0.08311
a	Gm08_8550222	8	8550222	24.65216	5.46E-11	0.08585
a	Gm08_8550815	8	8550815	21.49201	1.02E-09	0.07586
a	Gm08_8550903	8	8550903	27.62447	3.68E-12	0.09836
a	Gm08_8551421	8	8551421	26.30782	1.23E-11	0.09773
a	Gm08_8551437	8	8551437	21.79831	7.85E-10	0.08577
a	Gm08_8551458	8	8551458	22.50592	4.03E-10	0.08536
a	Gm08_8551462	8	8551462	23.08517	2.36E-10	0.08726
a	Gm08_8551560	8	8551560	19.54557	6.33E-09	0.07161
a	Gm08_8551674	8	8551674	23.70693	1.33E-10	0.08386
a	Gm08_8551678	8	8551678	25.26571	3.19E-11	0.08981
a	Gm08_8551807	8	8551807	22.10019	5.98E-10	0.08334
a	Gm08_8552406	8	8552406	28.57998	1.56E-12	0.10117
a	Gm08_8552667	8	8552667	32.0769	6.60E-14	0.1142
a	Gm08_8552680	8	8552680	28.87491	1.20E-12	0.10159
a	Gm08_8553022	8	8553022	23.44123	1.70E-10	0.08254
a	Gm08_8557526	8	8557526	28.48484	1.72E-12	0.10368
a	Gm08_8557749	8	8557749	23.47055	1.63E-10	0.08347
a	Gm08_8562604	8	8562604	48.5595	3.77E-20	0.18693
a	Gm08_8564145	8	8564145	17.73783	3.40E-08	0.0665
a	Gm08_8564702	8	8564702	42.19605	8.81E-18	0.14995
a	Gm08_8567208	8	8567208	59.65796	3.14E-24	0.19825
a	Gm08_8568732	8	8568732	26.62464	8.84E-12	0.08859
a	Gm08_8573698	8	8573698	37.53392	5.07E-16	0.1322
a	Gm08_8575427	8	8575427	20.09641	3.88E-09	0.07738
a	Gm08_8581777	8	8581777	27.0124	6.34E-12	0.09326
a	Gm08_8582311	8	8582311	64.47441	6.99E-26	0.2225
a	Gm08_8585259	8	8585259	20.64011	2.29E-09	0.07488
a	Gm08_8593015	8	8593015	32.9552	2.90E-14	0.10929
a	Gm08_8596080	8	8596080	49.66494	1.44E-20	0.17277
a	Gm08_8596099	8	8596099	17.70497	3.55E-08	0.06378
a	Gm08_8598389	8	8598389	28.25552	2.03E-12	0.09682
a	Gm08_8598614	8	8598614	30.30683	3.17E-13	0.10336
a	Gm08_8599062	8	8599062	37.17812	7.17E-16	0.13074
a	Gm08_8599104	8	8599104	23.16925	2.24E-10	0.08441
a	Gm08_8599749	8	8599749	32.96472	2.94E-14	0.11376
a	Gm08_8600110	8	8600110	38.13724	2.91E-16	0.12766
a	Gm08_8600112	8	8600112	37.78604	3.96E-16	0.12759
a	Gm08_8600577	8	8600577	36.73295	1.05E-15	0.13268
a	Gm08_8600731	8	8600731	27.12693	5.78E-12	0.10023

a	Gm08_8606073	8	8606073	29.12598	9.77E-13	0.11044
a	Gm08_8611170	8	8611170	37.82847	3.98E-16	0.13417
a	Gm08_8616114	8	8616114	35.9407	2.17E-15	0.12257
a	Gm08_8619695	8	8619695	30.4766	2.84E-13	0.11198
a	Gm08_8624758	8	8624758	36.2992	1.58E-15	0.12828
a	Gm08_8624935	8	8624935	18.41171	1.82E-08	0.06207
a	Gm08_8625219	8	8625219	18.63567	1.45E-08	0.06218
a	Gm08_8626442	8	8626442	32.67856	3.80E-14	0.12314
a	Gm08_8626677	8	8626677	27.01577	6.50E-12	0.10074
a	Gm08_8626730	8	8626730	31.11111	1.66E-13	0.11256
a	Gm08_8627020	8	8627020	17.48523	4.39E-08	0.06509
a	Gm08_8629594	8	8629594	17.31585	5.08E-08	0.06312
a	Gm08_8630161	8	8630161	22.70643	3.38E-10	0.08141
a	Gm08_8635529	8	8635529	16.62306	9.87E-08	0.06412
a	Gm08_8642244	8	8642244	30.34114	3.23E-13	0.11143
a	Gm08_8655544	8	8655544	19.95353	4.42E-09	0.07401
a	Gm08_8661207	8	8661207	46.03325	3.68E-19	0.18039
a	Gm08_8661940	8	8661940	59.80977	3.32E-24	0.21025
a	Gm08_8661946	8	8661946	60.59375	1.76E-24	0.21361
a	Gm08_8669224	8	8669224	21.18272	1.37E-09	0.076
a	Gm08_8670168	8	8670168	34.1445	9.61E-15	0.11927
a	Gm08_8672494	8	8672494	67.33337	8.47E-27	0.24161
a	Gm08_8675132	8	8675132	57.18786	3.36E-23	0.21955
a	Gm08_8678201	8	8678201	30.5089	2.84E-13	0.11471
a	Gm08_8679805	8	8679805	48.55722	4.00E-20	0.18343
a	Gm08_8683339	8	8683339	16.86083	7.71E-08	0.05489
a	Gm08_8706767	8	8706767	21.47434	9.11E-10	0.06442
a	Gm08_8709485	8	8709485	32.37981	5.60E-14	0.11666
a	Gm08_8710726	8	8710726	30.54374	2.67E-13	0.11283
a	Gm08_8710840	8	8710840	30.97351	1.74E-13	0.10863
a	Gm08_8711592	8	8711592	23.03629	2.49E-10	0.07902
a	Gm08_8712847	8	8712847	24.70187	5.49E-11	0.08867
a	Gm08_8714742	8	8714742	32.90588	3.11E-14	0.1151
a	Gm08_8718333	8	8718333	40.21912	4.90E-17	0.14527
a	Gm08_8719983	8	8719983	35.69418	2.71E-15	0.13551
a	Gm08_8724028	8	8724028	40.18612	5.32E-17	0.15731
a	Gm08_8724679	8	8724679	39.88615	6.98E-17	0.14209
a	Gm08_8725053	8	8725053	17.76088	3.38E-08	0.06247
a	Gm08_8730779	8	8730779	52.94676	8.76E-22	0.19487
a	Gm08_8731711	8	8731711	18.07825	2.51E-08	0.06086
a	Gm08_8732105	8	8732105	20.97745	1.67E-09	0.07694
a	Gm08_8733115	8	8733115	18.03185	2.63E-08	0.06427
a	Gm08_8733318	8	8733318	21.47195	1.04E-09	0.07704
a	Gm08_8733852	8	8733852	49.59394	1.59E-20	0.17994
a	Gm08_8734062	8	8734062	22.66476	3.40E-10	0.07671
a	Gm08_8734345	8	8734345	52.46916	1.39E-21	0.19507

a	Gm08_8741243	8	8741243	24.70256	5.48E-11	0.08917
a	Gm08_8741992	8	8741992	23.18529	2.16E-10	0.08309
a	Gm08_8742487	8	8742487	22.28069	5.00E-10	0.08167
a	Gm08_8742890	8	8742890	26.81007	7.84E-12	0.09336
a	Gm08_8744275	8	8744275	19.22309	8.32E-09	0.07316
a	Gm08_8748456	8	8748456	41.71812	1.33E-17	0.15122
a	Gm08_8748463	8	8748463	43.13904	4.03E-18	0.15795
a	Gm08_8752677	8	8752677	48.90584	2.61E-20	0.16908
a	Gm08_8752816	8	8752816	23.01075	2.59E-10	0.08331
a	Gm08_8753164	8	8753164	27.28222	5.23E-12	0.09829
a	Gm08_8753169	8	8753169	26.2197	1.37E-11	0.09426
a	Gm08_8753400	8	8753400	28.86766	1.22E-12	0.10496
a	Gm08_8753446	8	8753446	27.69273	3.55E-12	0.10188
a	Gm08_8753556	8	8753556	23.72064	1.27E-10	0.07978
a	Gm08_8753670	8	8753670	56.95758	2.60E-23	0.19
a	Gm08_8754150	8	8754150	21.87978	7.21E-10	0.0771
a	Gm08_8754364	8	8754364	37.41243	5.81E-16	0.13891
a	Gm08_8754420	8	8754420	34.13013	1.07E-14	0.12109
a	Gm08_8754534	8	8754534	27.69713	3.34E-12	0.09689
a	Gm08_8755451	8	8755451	19.45529	6.87E-09	0.0687
a	Gm08_8756149	8	8756149	29.70749	5.47E-13	0.10516
a	Gm08_8756207	8	8756207	21.99742	6.38E-10	0.0801
a	Gm08_8756368	8	8756368	26.20412	1.27E-11	0.08477
a	Gm08_8756533	8	8756533	21.87534	6.91E-10	0.07134
a	Gm08_8757269	8	8757269	30.19102	3.46E-13	0.1061
a	Gm08_8757474	8	8757474	21.56363	9.55E-10	0.08086
a	Gm08_8757543	8	8757543	22.78458	3.05E-10	0.07925
a	Gm08_8758012	8	8758012	23.48023	1.60E-10	0.0833
a	Gm08_8758050	8	8758050	18.44172	1.75E-08	0.0696
a	Gm08_8758350	8	8758350	19.68042	5.69E-09	0.07474
a	Gm08_8758482	8	8758482	21.49901	1.01E-09	0.07563
a	Gm08_8758509	8	8758509	18.20452	2.22E-08	0.06761
a	Gm08_8758650	8	8758650	29.60732	5.91E-13	0.09779
a	Gm08_8758656	8	8758656	28.64371	1.41E-12	0.09615
a	Gm08_8758667	8	8758667	23.99591	1.01E-10	0.08099
a	Gm08_8758827	8	8758827	19.49664	6.50E-09	0.06853
a	Gm08_8758852	8	8758852	19.93751	4.38E-09	0.07513
a	Gm08_8758857	8	8758857	34.32734	9.03E-15	0.12215
a	Gm08_8758861	8	8758861	44.5401	1.22E-18	0.16243
a	Gm08_8759510	8	8759510	24.43275	6.63E-11	0.08493
a	Gm08_8759543	8	8759543	50.86988	4.82E-21	0.17772
a	Gm08_8759722	8	8759722	23.49233	1.56E-10	0.08304
a	Gm08_8760144	8	8760144	21.24424	1.31E-09	0.0769
a	Gm08_8760367	8	8760367	18.48381	1.71E-08	0.07023
a	Gm08_8760541	8	8760541	20.77639	2.03E-09	0.07529
a	Gm08_8760565	8	8760565	22.78429	3.16E-10	0.08253

a	Gm08_8760569	8	8760569	20.80311	1.98E-09	0.07595
a	Gm08_8760641	8	8760641	21.85817	7.49E-10	0.08364
a	Gm08_8760738	8	8760738	25.3761	2.92E-11	0.09328
a	Gm08_8760790	8	8760790	34.6815	6.69E-15	0.12215
a	Gm08_8761211	8	8761211	19.24529	8.28E-09	0.06625
a	Gm08_8761516	8	8761516	19.35774	7.39E-09	0.06861
a	Gm08_8763923	8	8763923	39.31643	1.16E-16	0.14751
a	Gm08_8763987	8	8763987	18.73378	1.39E-08	0.07345
a	Gm08_8764778	8	8764778	28.97993	1.05E-12	0.10652
a	Gm08_8765916	8	8765916	19.58808	6.14E-09	0.07138
a	Gm08_8769254	8	8769254	19.01492	1.02E-08	0.06855
a	Gm08_8772458	8	8772458	38.93593	1.63E-16	0.14467
a	Gm08_8792140	8	8792140	24.74993	5.17E-11	0.08251
a	Gm08_8792704	8	8792704	21.80274	7.77E-10	0.0761
a	Gm08_8793823	8	8793823	19.76705	5.14E-09	0.06909
a	Gm08_8794574	8	8794574	27.69158	3.42E-12	0.10467
a	Gm08_8794578	8	8794578	28.14406	2.27E-12	0.10565
a	Gm08_8794903	8	8794903	20.02558	4.09E-09	0.07175
a	Gm08_8794917	8	8794917	31.07464	1.65E-13	0.10817
a	Gm08_8794937	8	8794937	32.45437	4.71E-14	0.10927
a	Gm08_8795074	8	8795074	21.246	1.25E-09	0.0717
a	Gm08_8795799	8	8795799	19.80862	4.91E-09	0.06822
a	Gm08_8795927	8	8795927	21.96172	6.87E-10	0.0809
a	Gm08_8795949	8	8795949	19.63026	5.94E-09	0.07304
a	Gm08_8796231	8	8796231	22.21333	5.38E-10	0.0781
a	Gm08_8796418	8	8796418	19.00038	1.05E-08	0.06667
a	Gm08_8797093	8	8797093	34.53623	7.07E-15	0.11739
a	Gm08_8797353	8	8797353	24.80604	4.85E-11	0.09204
a	Gm08_8797373	8	8797373	23.01863	2.49E-10	0.08326
a	Gm08_8797990	8	8797990	37.61811	4.74E-16	0.13206
a	Gm08_8800773	8	8800773	19.60576	5.83E-09	0.06504
a	Gm08_8801819	8	8801819	22.543	3.75E-10	0.07591
a	Gm08_8803261	8	8803261	26.10997	1.42E-11	0.08895
a	Gm08_8804658	8	8804658	21.78128	8.05E-10	0.07744
a	Gm08_8806382	8	8806382	18.81634	1.24E-08	0.06492
a	Gm08_8810936	8	8810936	28.45981	1.76E-12	0.10198
a	Gm08_8811745	8	8811745	20.35457	2.98E-09	0.07479
a	Gm08_8811797	8	8811797	17.4462	4.59E-08	0.06641
a	Gm08_8811880	8	8811880	16.91099	7.59E-08	0.06209
a	Gm08_8814426	8	8814426	23.00103	2.55E-10	0.0815
a	Gm08_8814588	8	8814588	18.60121	1.53E-08	0.06552
a	Gm08_8951607	8	8951607	18.28096	1.98E-08	0.05958
a	Gm08_8994913	8	8994913	16.58977	9.83E-08	0.05581
a	Gm08_9003171	8	9003171	20.82676	1.91E-09	0.0788
a	Gm08_9003237	8	9003237	17.60234	3.94E-08	0.06686
a	Gm08_9004627	8	9004627	17.56284	4.09E-08	0.06902

a	Gm08_9005430	8	9005430	24.78068	4.91E-11	0.08701
a	Gm08_9005432	8	9005432	24.56416	6.02E-11	0.08639
a	Gm08_9041378	8	9041378	21.6566	8.88E-10	0.07495
a	Gm08_9049801	8	9049801	23.57741	1.49E-10	0.08202
a	Gm08_9054741	8	9054741	25.07677	3.68E-11	0.08885
a	Gm08_9054872	8	9054872	25.461	2.61E-11	0.09196
a	Gm08_9071236	8	9071236	20.7179	2.18E-09	0.07911
a	Gm08_9071263	8	9071263	22.44193	4.45E-10	0.08546
a	Gm08_9077545	8	9077545	23.23026	2.03E-10	0.08284
a	Gm08_9119281	8	9119281	16.92007	7.25E-08	0.05703
a	Gm08_9681617	8	9681617	17.45955	4.45E-08	0.06436
a	Gm08_9899035	8	9899035	19.07734	9.57E-09	0.06504
a	Gm08_9899261	8	9899261	18.10986	2.36E-08	0.0641
a	Gm08_9904331	8	9904331	20.43052	2.75E-09	0.07385
b	Gm1_6111031	1	6111031	18.02014	2.60E-08	0.05996
b	Gm1_6111040	1	6111040	17.85471	3.02E-08	0.05987
b	Gm1_6111085	1	6111085	17.3064	5.09E-08	0.05963
b	Gm1_50252230	1	50252230	16.88927	7.65E-08	0.06338
b	Gm1_53106025	1	53106025	29.50131	8.41E-08	0.0506
b	Gm08_7820505	8	7820505	18.41832	1.83E-08	0.06626
b	Gm08_7870016	8	7870016	16.69394	9.08E-08	0.06078
b	Gm08_7986597	8	7986597	19.90206	4.55E-09	0.07046
b	Gm08_7986614	8	7986614	18.73221	1.35E-08	0.06814
b	Gm08_8000994	8	8000994	18.20614	2.19E-08	0.06402
b	Gm08_8001123	8	8001123	17.29747	5.25E-08	0.06386
b	Gm08_8008583	8	8008583	19.80593	4.95E-09	0.07311
b	Gm08_8019129	8	8019129	19.32584	7.56E-09	0.06489
b	Gm08_8031011	8	8031011	16.7096	9.14E-08	0.06508
b	Gm08_8031082	8	8031082	23.75236	1.28E-10	0.09219
b	Gm08_8042287	8	8042287	22.04429	6.22E-10	0.08015
b	Gm08_8047879	8	8047879	17.62139	3.86E-08	0.06266
b	Gm08_8052282	8	8052282	20.29145	3.17E-09	0.07107
b	Gm08_8053376	8	8053376	53.79119	8.10E-13	0.10905
b	Gm08_8053477	8	8053477	26.85483	7.34E-12	0.09755
b	Gm08_8055772	8	8055772	26.67879	8.93E-12	0.09704
b	Gm08_8056510	8	8056510	19.3827	7.28E-09	0.06833
b	Gm08_8058590	8	8058590	18.97329	1.06E-08	0.06179
b	Gm08_8059083	8	8059083	20.78814	1.96E-09	0.06846
b	Gm08_8059184	8	8059184	21.17389	1.40E-09	0.07563
b	Gm08_8062435	8	8062435	17.81366	3.22E-08	0.0619
b	Gm08_8065674	8	8065674	20.741	2.02E-09	0.07209
b	Gm08_8066335	8	8066335	21.49889	1.00E-09	0.07569
b	Gm08_8066589	8	8066589	20.85837	1.87E-09	0.07472
b	Gm08_8067540	8	8067540	17.34758	4.88E-08	0.06324
b	Gm08_8069365	8	8069365	18.86031	1.19E-08	0.06372
b	Gm08_8081879	8	8081879	17.03306	6.60E-08	0.05866

b	Gm08_8092329	8	8092329	25.22452	3.31E-11	0.08693
b	Gm08_8095794	8	8095794	24.48985	6.48E-11	0.08675
b	Gm08_8096014	8	8096014	21.13812	1.43E-09	0.07335
b	Gm08_8099353	8	8099353	24.03957	9.54E-11	0.08776
b	Gm08_8100194	8	8100194	17.64031	3.84E-08	0.06356
b	Gm08_8101680	8	8101680	18.04976	2.56E-08	0.06645
b	Gm08_8110318	8	8110318	21.64704	8.91E-10	0.07559
b	Gm08_8157061	8	8157061	24.68326	5.47E-11	0.0878
b	Gm08_8172987	8	8172987	24.99462	4.19E-11	0.0906
b	Gm08_8176120	8	8176120	23.49857	1.61E-10	0.08177
b	Gm08_8188522	8	8188522	24.80538	4.81E-11	0.09136
b	Gm08_8188523	8	8188523	23.73025	1.30E-10	0.08811
b	Gm08_8190124	8	8190124	20.03576	3.99E-09	0.07438
b	Gm08_8190497	8	8190497	21.97894	6.59E-10	0.07786
b	Gm08_8190546	8	8190546	27.70411	3.42E-12	0.10305
b	Gm08_8191127	8	8191127	30.62791	2.29E-13	0.10366
b	Gm08_8191455	8	8191455	18.61288	1.52E-08	0.07155
b	Gm08_8191743	8	8191743	16.74662	8.67E-08	0.06132
b	Gm08_8192436	8	8192436	19.35087	7.71E-09	0.07121
b	Gm08_8193696	8	8193696	19.36403	7.28E-09	0.06838
b	Gm08_8195742	8	8195742	33.81046	1.44E-14	0.11555
b	Gm08_8196111	8	8196111	22.5185	3.96E-10	0.07831
b	Gm08_8196565	8	8196565	20.22258	3.26E-09	0.06867
b	Gm08_8196909	8	8196909	26.94615	7.00E-12	0.09498
b	Gm08_8197293	8	8197293	28.53632	1.66E-12	0.10315
b	Gm08_8197709	8	8197709	22.98706	2.49E-10	0.07826
b	Gm08_8198228	8	8198228	21.17968	1.38E-09	0.07666
b	Gm08_8198246	8	8198246	20.90072	1.79E-09	0.07546
b	Gm08_8199605	8	8199605	20.81044	1.91E-09	0.07204
b	Gm08_8199626	8	8199626	29.87964	4.64E-13	0.10172
b	Gm08_8199882	8	8199882	36.78502	9.63E-16	0.1297
b	Gm08_8200063	8	8200063	21.28057	1.22E-09	0.07377
b	Gm08_8200230	8	8200230	32.27417	5.26E-14	0.10874
b	Gm08_8200825	8	8200825	30.8521	1.80E-13	0.10735
b	Gm08_8201008	8	8201008	23.0822	2.34E-10	0.08185
b	Gm08_8201272	8	8201272	20.8541	1.77E-09	0.07102
b	Gm08_8201476	8	8201476	38.07802	2.92E-16	0.12635
b	Gm08_8201501	8	8201501	35.93773	2.01E-15	0.12135
b	Gm08_8201849	8	8201849	31.52298	1.01E-13	0.10987
b	Gm08_8202357	8	8202357	22.73615	3.12E-10	0.0793
b	Gm08_8202427	8	8202427	26.81748	7.27E-12	0.09197
b	Gm08_8202907	8	8202907	19.84289	4.74E-09	0.07086
b	Gm08_8203074	8	8203074	28.31842	1.91E-12	0.10099
b	Gm08_8204027	8	8204027	24.40255	7.17E-11	0.09478
b	Gm08_8204715	8	8204715	19.86895	4.53E-09	0.068
b	Gm08_8204961	8	8204961	31.83722	8.33E-14	0.1151

b	Gm08_8205513	8	8205513	23.34568	1.87E-10	0.07958
b	Gm08_8205579	8	8205579	21.72895	8.10E-10	0.07422
b	Gm08_8205602	8	8205602	20.6471	2.26E-09	0.07356
b	Gm08_8205748	8	8205748	19.65544	5.70E-09	0.06652
b	Gm08_8209460	8	8209460	22.32228	4.73E-10	0.07696
b	Gm08_8210825	8	8210825	17.67195	3.59E-08	0.06271
b	Gm08_8214801	8	8214801	19.49139	6.66E-09	0.07166
b	Gm08_8216666	8	8216666	29.44048	7.17E-13	0.11203
b	Gm08_8230569	8	8230569	21.04916	1.51E-09	0.06808
b	Gm08_8232993	8	8232993	25.84162	1.74E-11	0.08588
b	Gm08_8233645	8	8233645	31.40178	1.17E-13	0.10689
b	Gm08_8236097	8	8236097	21.88447	7.31E-10	0.08514
b	Gm08_8236244	8	8236244	17.28741	5.13E-08	0.06044
b	Gm08_8236763	8	8236763	22.78267	2.99E-10	0.07843
b	Gm08_8236862	8	8236862	22.95161	2.59E-10	0.08037
b	Gm08_8236894	8	8236894	21.58565	9.34E-10	0.07837
b	Gm08_8237654	8	8237654	29.57877	6.00E-13	0.10533
b	Gm08_8238668	8	8238668	18.69756	1.38E-08	0.06361
b	Gm08_8238813	8	8238813	22.19807	5.47E-10	0.08334
b	Gm08_8241224	8	8241224	27.49712	4.17E-12	0.10104
b	Gm08_8241247	8	8241247	17.54036	4.18E-08	0.06763
b	Gm08_8242850	8	8242850	35.14785	4.33E-15	0.11934
b	Gm08_8243491	8	8243491	32.76513	3.69E-14	0.12373
b	Gm08_8244136	8	8244136	33.54898	1.65E-14	0.11843
b	Gm08_8245354	8	8245354	17.21461	5.58E-08	0.06175
b	Gm08_8245529	8	8245529	34.68699	5.93E-15	0.11879
b	Gm08_8259822	8	8259822	33.59633	1.53E-14	0.10841
b	Gm08_8267574	8	8267574	32.89687	3.25E-14	0.11749
b	Gm08_8267935	8	8267935	19.07986	9.73E-09	0.07043
b	Gm08_8270790	8	8270790	23.08916	2.37E-10	0.0818
b	Gm08_8270797	8	8270797	23.04087	2.49E-10	0.08239
b	Gm08_8285621	8	8285621	21.084	1.52E-09	0.07637
b	Gm08_8285888	8	8285888	33.39725	1.99E-14	0.11588
b	Gm08_8288351	8	8288351	19.68555	5.42E-09	0.06742
b	Gm08_8303757	8	8303757	16.82855	8.00E-08	0.05849
b	Gm08_8303996	8	8303996	20.42122	2.82E-09	0.07515
b	Gm08_8306163	8	8306163	42.38266	7.83E-18	0.16284
b	Gm08_8306458	8	8306458	26.24113	1.27E-11	0.09061
b	Gm08_8311989	8	8311989	33.01193	2.78E-14	0.11389
b	Gm08_8312343	8	8312343	29.30979	7.56E-13	0.10036
b	Gm08_8313215	8	8313215	32.38534	4.60E-14	0.10896
b	Gm08_8313241	8	8313241	31.6387	9.56E-14	0.10765
b	Gm08_8313428	8	8313428	25.10227	3.77E-11	0.09193
b	Gm08_8313640	8	8313640	24.2765	7.91E-11	0.08618
b	Gm08_8314161	8	8314161	21.21954	1.29E-09	0.0725
b	Gm08_8314707	8	8314707	24.18113	8.60E-11	0.09023

b	Gm08_8314788	8	8314788	28.0707	2.37E-12	0.1019
b	Gm08_8314827	8	8314827	27.27644	4.83E-12	0.09403
b	Gm08_8314987	8	8314987	31.13676	1.54E-13	0.10743
b	Gm08_8316860	8	8316860	27.90004	2.89E-12	0.09838
b	Gm08_8317597	8	8317597	19.43682	6.86E-09	0.06513
b	Gm08_8318754	8	8318754	18.84333	1.23E-08	0.06827
b	Gm08_8318759	8	8318759	31.35813	1.32E-13	0.11525
b	Gm08_8318837	8	8318837	37.93053	3.76E-16	0.13338
b	Gm08_8319060	8	8319060	32.68608	3.98E-14	0.11694
b	Gm08_8319085	8	8319085	32.30456	5.45E-14	0.11451
b	Gm08_8319087	8	8319087	31.33385	1.33E-13	0.11381
b	Gm08_8319115	8	8319115	28.64808	1.46E-12	0.10047
b	Gm08_8319732	8	8319732	26.69133	8.72E-12	0.09455
b	Gm08_8319744	8	8319744	28.56291	1.58E-12	0.10042
b	Gm08_8319787	8	8319787	30.97385	1.78E-13	0.11395
b	Gm08_8319795	8	8319795	31.76677	8.50E-14	0.1144
b	Gm08_8319817	8	8319817	26.25255	1.29E-11	0.09311
b	Gm08_8319867	8	8319867	27.90453	2.91E-12	0.10446
b	Gm08_8322185	8	8322185	29.38134	7.62E-13	0.10477
b	Gm08_8322357	8	8322357	25.71582	2.06E-11	0.08575
b	Gm08_8323966	8	8323966	25.65593	2.15E-11	0.08883
b	Gm08_8323971	8	8323971	31.94958	7.21E-14	0.11017
b	Gm08_8323983	8	8323983	32.06636	6.53E-14	0.11185
b	Gm08_8324392	8	8324392	30.47896	2.58E-13	0.10326
b	Gm08_8328261	8	8328261	39.35401	1.02E-16	0.13949
b	Gm08_8328392	8	8328392	16.78146	8.42E-08	0.06213
b	Gm08_8328540	8	8328540	18.7413	1.35E-08	0.06395
b	Gm08_8329538	8	8329538	26.05836	1.53E-11	0.09318
b	Gm08_8354601	8	8354601	17.64531	3.73E-08	0.06185
b	Gm08_8359499	8	8359499	20.24468	3.10E-09	0.06512
b	Gm08_8360663	8	8360663	23.46442	1.58E-10	0.08291
b	Gm08_8364457	8	8364457	24.77009	4.73E-11	0.08726
b	Gm08_8368519	8	8368519	26.49409	1.00E-11	0.09038
b	Gm08_8368552	8	8368552	25.15609	3.36E-11	0.08817
b	Gm08_8371230	8	8371230	32.3635	4.92E-14	0.10942
b	Gm08_8373581	8	8373581	41.60436	1.17E-17	0.13602
b	Gm08_8374519	8	8374519	48.056	5.72E-20	0.17185
b	Gm08_8374643	8	8374643	36.47183	1.37E-15	0.13356
b	Gm08_8374655	8	8374655	31.92644	7.60E-14	0.1136
b	Gm08_8374738	8	8374738	30.20202	3.66E-13	0.11678
b	Gm08_8374743	8	8374743	17.70074	3.57E-08	0.06746
b	Gm08_8375080	8	8375080	27.93034	2.70E-12	0.09709
b	Gm08_8375124	8	8375124	29.26167	8.30E-13	0.10635
b	Gm08_8375522	8	8375522	29.19599	8.54E-13	0.10704
b	Gm08_8375603	8	8375603	34.54593	6.94E-15	0.12019
b	Gm08_8375666	8	8375666	29.19474	7.89E-13	0.09946

b	Gm08_8375961	8	8375961	20.04442	3.79E-09	0.06651
b	Gm08_8376085	8	8376085	37.45576	5.27E-16	0.12492
b	Gm08_8377404	8	8377404	27.54821	3.87E-12	0.09684
b	Gm08_8377783	8	8377783	37.69671	4.60E-16	0.13397
b	Gm08_8378225	8	8378225	22.30511	4.96E-10	0.08958
b	Gm08_8379915	8	8379915	30.42823	2.75E-13	0.10088
b	Gm08_8380062	8	8380062	30.03658	3.63E-13	0.09857
b	Gm08_8380544	8	8380544	26.60545	8.48E-12	0.08739
b	Gm08_8380771	8	8380771	21.97588	6.27E-10	0.07898
b	Gm08_8380778	8	8380778	23.63474	1.34E-10	0.08314
b	Gm08_8380797	8	8380797	25.41252	2.62E-11	0.08889
b	Gm08_8380961	8	8380961	24.98458	3.87E-11	0.08916
b	Gm08_8380988	8	8380988	22.64343	3.41E-10	0.08422
b	Gm08_8381058	8	8381058	39.98548	5.31E-17	0.13933
b	Gm08_8381111	8	8381111	31.09506	1.43E-13	0.10797
b	Gm08_8381483	8	8381483	27.59226	3.38E-12	0.08956
b	Gm08_8381494	8	8381494	29.22897	7.52E-13	0.09352
b	Gm08_8381764	8	8381764	31.26137	1.21E-13	0.10379
b	Gm08_8390797	8	8390797	55.19665	7.45E-23	0.15789
b	Gm08_8391636	8	8391636	22.26678	4.74E-10	0.06994
b	Gm08_8391703	8	8391703	19.88056	4.15E-09	0.06055
b	Gm08_8392597	8	8392597	31.03893	3.94E-08	0.05574
b	Gm08_8393576	8	8393576	42.79477	3.76E-18	0.13359
b	Gm08_8394915	8	8394915	38.71346	1.52E-16	0.13066
b	Gm08_8398559	8	8398559	41.15991	1.82E-17	0.13663
b	Gm08_8399515	8	8399515	44.75556	7.20E-19	0.15176
b	Gm08_8400595	8	8400595	40.57498	2.95E-17	0.13287
b	Gm08_8420033	8	8420033	45.79336	3.65E-19	0.1673
b	Gm08_8438870	8	8438870	44.64887	1.12E-18	0.15951
b	Gm08_8438876	8	8438876	35.93119	2.25E-15	0.12828
b	Gm08_8438936	8	8438936	33.83939	1.39E-14	0.11553
b	Gm08_8439073	8	8439073	41.68724	1.45E-17	0.15146
b	Gm08_8457731	8	8457731	30.99286	1.73E-13	0.10369
b	Gm08_8458705	8	8458705	19.78158	5.26E-09	0.07846
b	Gm08_8473227	8	8473227	36.26617	1.60E-15	0.12245
b	Gm08_8473662	8	8473662	21.04056	1.57E-09	0.07694
b	Gm08_8513329	8	8513329	33.63541	1.47E-14	0.11381
b	Gm08_8513330	8	8513330	34.48331	6.93E-15	0.11711
b	Gm08_8513350	8	8513350	31.60829	8.68E-14	0.10279
b	Gm08_8513390	8	8513390	34.4944	6.01E-15	0.10916
b	Gm08_8513442	8	8513442	34.67184	4.65E-15	0.10404
b	Gm08_8526593	8	8526593	26.98521	6.45E-12	0.09412
b	Gm08_8530715	8	8530715	23.95672	1.01E-10	0.08209
b	Gm08_8530878	8	8530878	33.20957	2.32E-14	0.11098
b	Gm08_8531901	8	8531901	22.82532	2.89E-10	0.07828
b	Gm08_8531923	8	8531923	18.72384	1.34E-08	0.06427

b	Gm08_8532182	8	8532182	17.55005	4.10E-08	0.06319
b	Gm08_8532274	8	8532274	25.50311	2.61E-11	0.09208
b	Gm08_8535064	8	8535064	23.37995	1.71E-10	0.07828
b	Gm08_8537176	8	8537176	16.9404	7.37E-08	0.06119
b	Gm08_8538286	8	8538286	30.46721	2.85E-13	0.1176
b	Gm08_8539128	8	8539128	32.85982	3.21E-14	0.11326
b	Gm08_8541967	8	8541967	16.81514	8.12E-08	0.05888
b	Gm08_8543674	8	8543674	18.52498	1.65E-08	0.06583
b	Gm08_8543708	8	8543708	18.19575	2.26E-08	0.06598
b	Gm08_8543723	8	8543723	17.58691	3.97E-08	0.06142
b	Gm08_8544931	8	8544931	22.87196	2.96E-10	0.09056
b	Gm08_8562604	8	8562604	40.13932	5.33E-17	0.14283
b	Gm08_8564702	8	8564702	31.38117	1.23E-13	0.10983
b	Gm08_8567208	8	8567208	34.35567	8.33E-15	0.11173
b	Gm08_8573698	8	8573698	31.75524	8.66E-14	0.10951
b	Gm08_8582311	8	8582311	35.11092	4.46E-15	0.12241
b	Gm08_8593015	8	8593015	25.70729	2.06E-11	0.08602
b	Gm08_8596080	8	8596080	34.44511	7.92E-15	0.12189
b	Gm08_8598614	8	8598614	37.42293	5.54E-16	0.1328
b	Gm08_8599062	8	8599062	25.95324	1.70E-11	0.09735
b	Gm08_8599749	8	8599749	28.15101	2.25E-12	0.09613
b	Gm08_8600110	8	8600110	19.70854	5.32E-09	0.07207
b	Gm08_8600112	8	8600112	20.40639	2.77E-09	0.07454
b	Gm08_8600577	8	8600577	20.66449	2.21E-09	0.07589
b	Gm08_8600731	8	8600731	22.81982	3.00E-10	0.08234
b	Gm08_8606073	8	8606073	16.7728	8.59E-08	0.0582
b	Gm08_8611170	8	8611170	31.43903	1.17E-13	0.11239
b	Gm08_8642278	8	8642278	17.04566	6.64E-08	0.06318
b	Gm08_8661207	8	8661207	22.56798	3.93E-10	0.08384
b	Gm08_8661940	8	8661940	28.5823	1.57E-12	0.1051
b	Gm08_8661946	8	8661946	28.36076	1.93E-12	0.10512
b	Gm08_8669224	8	8669224	18.2976	2.02E-08	0.06152
b	Gm08_8670168	8	8670168	19.53539	6.16E-09	0.06403
b	Gm08_8675132	8	8675132	17.04544	6.72E-08	0.06616
b	Gm08_8679805	8	8679805	17.53631	4.17E-08	0.06482
b	Gm08_8741243	8	8741243	19.07323	9.97E-09	0.06869
b	Gm08_8741992	8	8741992	23.59201	1.48E-10	0.08866
b	Gm08_8742890	8	8742890	24.59406	5.94E-11	0.08862
b	Gm08_8744275	8	8744275	20.08356	3.72E-09	0.06711
b	Gm08_8752816	8	8752816	24.52155	6.48E-11	0.08939
b	Gm08_8753400	8	8753400	19.04242	1.02E-08	0.0674
b	Gm08_8753446	8	8753446	17.84736	3.12E-08	0.06739
b	Gm08_8753556	8	8753556	25.17576	3.33E-11	0.08661
b	Gm08_8754364	8	8754364	21.26927	1.27E-09	0.07586
b	Gm08_8754420	8	8754420	22.72117	3.30E-10	0.08302
b	Gm08_8754534	8	8754534	22.39842	4.34E-10	0.07886

b	Gm08_8756149	8	8756149	22.35103	4.58E-10	0.07811
b	Gm08_8756368	8	8756368	29.56058	5.92E-13	0.09688
b	Gm08_8757269	8	8757269	20.06237	3.81E-09	0.0685
b	Gm08_8764778	8	8764778	19.11205	9.34E-09	0.06348
b	Gm08_8769254	8	8769254	19.42192	7.00E-09	0.06692
b	Gm08_9041378	8	9041378	17.32722	5.05E-08	0.06151
b	Gm08_9054872	8	9054872	17.76583	3.31E-08	0.06154
b	Gm08_9071236	8	9071236	17.0808	6.50E-08	0.06042
b	Gm08_9071263	8	9071263	23.05572	2.53E-10	0.08263
b	Gm09_5963291	9	5963291	16.75313	8.72E-08	0.05876
b	Gm09_45657860	9	45657860	17.82994	3.22E-08	0.06237
b	Gm09_45747951	9	45747951	17.71473	3.50E-08	0.0674
b	Gm09_45768520	9	45768520	17.66986	3.70E-08	0.06714
b	Gm10_42189909	10	42189909	17.11875	6.04E-08	0.0598
b	Gm13_18908908	13	18908908	16.71444	8.80E-08	0.05535
b	Gm14_42523345	14	42523345	17.75502	3.37E-08	0.06131
b	Gm20_26454828	20	26454828	18.08842	2.41E-08	0.0641
Hue	Gm1_51043787	1	51043787	31.14909	3.79E-08	0.05483
Hue	Gm1_53100088	1	53100088	33.84238	9.77E-09	0.05627
Hue	Gm1_53106050	1	53106050	30.38212	5.45E-08	0.05239
Hue	Gm07_17960320	7	17960320	21.00511	1.53E-09	0.07015
Hue	Gm08_8191127	8	8191127	18.28053	2.01E-08	0.06227
Hue	Gm08_8197293	8	8197293	16.7406	8.83E-08	0.05965
Hue	Gm08_8199882	8	8199882	21.36354	1.14E-09	0.07307
Hue	Gm08_8200230	8	8200230	19.40031	7.05E-09	0.06501
Hue	Gm08_8201476	8	8201476	21.85317	7.10E-10	0.07753
Hue	Gm08_8201501	8	8201501	20.94922	1.66E-09	0.07507
Hue	Gm08_8201849	8	8201849	22.81964	2.89E-10	0.07663
Hue	Gm08_8202357	8	8202357	19.19556	8.48E-09	0.0643
Hue	Gm08_8204961	8	8204961	18.65283	1.46E-08	0.06788
Hue	Gm08_8216666	8	8216666	18.61119	1.51E-08	0.06741
Hue	Gm08_8241224	8	8241224	16.67662	9.32E-08	0.06051
Hue	Gm08_8242850	8	8242850	19.32675	7.74E-09	0.06893
Hue	Gm08_8243491	8	8243491	21.66643	8.86E-10	0.07792
Hue	Gm08_8244136	8	8244136	19.94141	4.22E-09	0.07096
Hue	Gm08_8259822	8	8259822	17.92563	2.78E-08	0.05819
Hue	Gm08_8267574	8	8267574	18.67064	1.44E-08	0.06823
Hue	Gm08_8285888	8	8285888	17.59881	3.87E-08	0.06026
Hue	Gm08_8306163	8	8306163	17.67302	3.66E-08	0.0685
Hue	Gm08_8318759	8	8318759	21.95345	6.86E-10	0.08149
Hue	Gm08_8318837	8	8318837	16.84287	7.98E-08	0.06118
Hue	Gm08_8319795	8	8319795	17.29196	5.15E-08	0.06027
Hue	Gm08_8371230	8	8371230	20.00737	4.02E-09	0.06912
Hue	Gm08_8373581	8	8373581	22.63499	3.31E-10	0.0778
Hue	Gm08_8374519	8	8374519	22.38196	4.50E-10	0.0828
Hue	Gm08_8374643	8	8374643	19.04781	1.01E-08	0.07233

Hue	Gm08_8374738	8	8374738	21.45268	1.08E-09	0.08056
Hue	Gm08_8375080	8	8375080	17.62744	3.75E-08	0.06533
Hue	Gm08_8375666	8	8375666	21.27424	1.18E-09	0.07126
Hue	Gm08_8376085	8	8376085	24.90181	4.31E-11	0.0874
Hue	Gm08_8377783	8	8377783	24.1546	8.86E-11	0.08726
Hue	Gm08_8381058	8	8381058	27.38419	4.29E-12	0.09321
Hue	Gm08_8381111	8	8381111	17.55239	3.92E-08	0.05914
Hue	Gm08_8381764	8	8381764	21.29913	1.15E-09	0.07043
Hue	Gm08_8390797	8	8390797	29.81004	4.14E-13	0.08853
Hue	Gm08_8393576	8	8393576	28.18506	1.89E-12	0.08862
Hue	Gm08_8394915	8	8394915	23.67105	1.27E-10	0.07773
Hue	Gm08_8398559	8	8398559	24.89381	4.15E-11	0.08381
Hue	Gm08_8399515	8	8399515	37.95324	2.89E-16	0.12682
Hue	Gm08_8400595	8	8400595	30.05296	3.63E-13	0.09716
Hue	Gm08_8420033	8	8420033	31.61814	9.56E-14	0.10983
Hue	Gm08_8438870	8	8438870	29.19856	9.03E-13	0.10531
Hue	Gm08_8438876	8	8438876	23.05824	2.46E-10	0.08456
Hue	Gm08_8438936	8	8438936	19.77372	5.11E-09	0.0657
Hue	Gm08_8439073	8	8439073	25.03567	3.99E-11	0.08849
Hue	Gm08_8473227	8	8473227	20.1667	3.53E-09	0.06781
Hue	Gm08_8513329	8	8513329	22.51295	3.79E-10	0.07755
Hue	Gm08_8513330	8	8513330	23.11528	2.17E-10	0.08041
Hue	Gm08_8513350	8	8513350	18.606	1.43E-08	0.06042
Hue	Gm08_8513390	8	8513390	21.46443	9.54E-10	0.06669
Hue	Gm08_8513442	8	8513442	20.54824	2.18E-09	0.06087
Hue	Gm08_8530878	8	8530878	17.30788	5.07E-08	0.06054
Hue	Gm08_8532182	8	8532182	16.65653	9.51E-08	0.05923
Hue	Gm08_8532274	8	8532274	16.81963	8.21E-08	0.06128
Hue	Gm08_8538286	8	8538286	18.8027	1.27E-08	0.06991
Hue	Gm08_8539128	8	8539128	20.10109	3.71E-09	0.07143
Hue	Gm08_8562604	8	8562604	23.25554	2.01E-10	0.08254
Hue	Gm08_8564702	8	8564702	16.64408	9.57E-08	0.05629
Hue	Gm08_8567208	8	8567208	20.29362	3.09E-09	0.06688
Hue	Gm08_8573698	8	8573698	19.0776	9.67E-09	0.06461
Hue	Gm08_8582311	8	8582311	17.88365	2.99E-08	0.06361
Hue	Gm08_8596080	8	8596080	20.14011	3.60E-09	0.07356
Hue	Gm08_8598614	8	8598614	18.26302	2.07E-08	0.06487
Hue	Gm08_8599062	8	8599062	23.5558	1.53E-10	0.0828
Hue	Gm08_8611170	8	8611170	17.50257	4.26E-08	0.06396
Hue	Gm08_8661940	8	8661940	18.52105	1.65E-08	0.06712
Hue	Gm08_8661946	8	8661946	17.5235	4.22E-08	0.06209
Hue	Gm08_8711592	8	8711592	17.19924	5.71E-08	0.06273
Hue	Gm08_8741243	8	8741243	18.84811	1.23E-08	0.07168
Hue	Gm08_8741992	8	8741992	19.19811	8.73E-09	0.06917
Hue	Gm08_8742890	8	8742890	18.96495	1.09E-08	0.06827
Hue	Gm08_8752816	8	8752816	20.98067	1.69E-09	0.07707

Hue	Gm08_8753446	8	8753446	16.89927	7.61E-08	0.06112
Hue	Gm08_8753556	8	8753556	17.62037	3.76E-08	0.06082
Hue	Gm08_8754364	8	8754364	18.16651	2.29E-08	0.06638
Hue	Gm08_8754534	8	8754534	21.98567	6.37E-10	0.0805
Hue	Gm08_8756149	8	8756149	18.41505	1.80E-08	0.06392
Hue	Gm08_8756368	8	8756368	17.22735	5.38E-08	0.05503
Hue	Gm08_8757269	8	8757269	19.16929	8.79E-09	0.06693
Hue	Gm08_8764778	8	8764778	19.65595	5.62E-09	0.06854
Hue	Gm08_9071263	8	9071263	19.83751	4.95E-09	0.0712
Hue	Gm09_34715316	9	34715316	17.15268	5.79E-08	0.05783
Hue	Gm09_42972212	9	42972212	16.68499	9.40E-08	0.06427
Hue	Gm09_42972331	9	42972331	16.60873	9.97E-08	0.0599
Hue	Gm09_42972346	9	42972346	16.69036	9.27E-08	0.05884
Hue	Gm10_45898133	10	45898133	18.11396	2.39E-08	0.06097
Hue	Gm11_1528679	11	1528679	31.46164	3.22E-08	0.05386
Hue	Gm13_18806357	13	18806357	21.91521	6.97E-10	0.08246
Hue	Gm13_35141743	13	35141743	36.12079	3.33E-09	0.06294
Hue	Gm13_35141744	13	35141744	34.84393	6.25E-09	0.06141
Hue	Gm14_11005448	14	11005448	25.25667	3.17E-11	0.09002
Hue	Gm14_13645886	14	13645886	16.82282	8.20E-08	0.06009
Hue	Gm14_40858822	14	40858822	19.14803	9.06E-09	0.0675
Hue	Gm14_40858872	14	40858872	19.73644	5.22E-09	0.06736
Hue	Gm14_40858948	14	40858948	16.8492	7.87E-08	0.05853
Hue	Gm14_43263039	14	43263039	18.37364	1.81E-08	0.06211
Hue	Gm14_45172016	14	45172016	18.69946	1.32E-08	0.05952
Hue	Gm14_45172017	14	45172017	18.33366	1.87E-08	0.05892
Hue	Gm14_45698825	14	45698825	17.10632	6.15E-08	0.05928
Hue	Gm16_10458713	16	10458713	21.94421	6.27E-10	0.07626
Hue	Gm16_22338122	16	22338122	17.61358	3.58E-08	0.05391
Hue	Gm16_22573136	16	22573136	21.81538	7.53E-10	0.07829
Hue	Gm17_24879620	17	24879620	22.13142	5.37E-10	0.07183
Hue	Gm18_46908603	18	46908603	17.35696	4.61E-08	0.05504
Hue	Gm19_32681548	19	32681548	19.82282	4.69E-09	0.06512
Hue	Gm19_32681561	19	32681561	18.36261	1.85E-08	0.06012
Hue	Gm19_34385146	19	34385146	18.60872	1.53E-08	0.06777
Hue	Gm19_38896672	19	38896672	18.13196	2.29E-08	0.0601
Hue	Gm20_25184120	20	25184120	23.18909	2.03E-10	0.07433
Hue	Gm20_25425722	20	25425722	20.94024	1.66E-09	0.06917
Chroma	Gm1_53140888	1	53140888	18.95594	1.11E-08	0.06873
Chroma	Gm1_53141084	1	53141084	18.60692	1.52E-08	0.06752
Chroma	Gm1_53141323	1	53141323	18.44687	1.79E-08	0.06825
Chroma	Gm1_53141642	1	53141642	17.41698	4.69E-08	0.06266
Chroma	Gm1_53144842	1	53144842	18.29348	2.02E-08	0.0647
Chroma	Gm1_53145103	1	53145103	17.09339	6.18E-08	0.05998
Chroma	Gm1_53145271	1	53145271	16.70587	9.03E-08	0.06212
Chroma	Gm1_53145536	1	53145536	16.87903	7.59E-08	0.0615

Chroma	Gm1_53146496	1	53146496	17.40257	4.72E-08	0.06411
Chroma	Gm1_53149981	1	53149981	17.31805	4.99E-08	0.05902
Chroma	Gm1_53155372	1	53155372	17.64588	3.70E-08	0.06074
Chroma	Gm1_53165703	1	53165703	18.09678	2.47E-08	0.06666
Chroma	Gm02_47303057	2	47303057	17.06217	6.32E-08	0.05643
Chroma	Gm06_18887736	6	18887736	20.96686	1.65E-09	0.07461
Chroma	Gm08_7724268	8	7724268	16.65326	9.57E-08	0.06175
Chroma	Gm08_7820505	8	7820505	25.39853	2.87E-11	0.09241
Chroma	Gm08_7869866	8	7869866	16.97474	6.89E-08	0.0559
Chroma	Gm08_7870016	8	7870016	18.87459	1.17E-08	0.06611
Chroma	Gm08_7879285	8	7879285	25.82794	1.78E-11	0.08746
Chroma	Gm08_7879896	8	7879896	20.17501	3.52E-09	0.08036
Chroma	Gm08_7880131	8	7880131	26.13574	1.43E-11	0.09033
Chroma	Gm08_7880175	8	7880175	25.46531	2.65E-11	0.09142
Chroma	Gm08_7888960	8	7888960	23.80501	1.17E-10	0.08385
Chroma	Gm08_7890026	8	7890026	29.36027	7.63E-13	0.09664
Chroma	Gm08_7903246	8	7903246	17.97302	2.68E-08	0.06097
Chroma	Gm08_7934196	8	7934196	17.27014	5.26E-08	0.06314
Chroma	Gm08_7968724	8	7968724	18.40584	1.81E-08	0.06428
Chroma	Gm08_7985936	8	7985936	26.14585	1.36E-11	0.09134
Chroma	Gm08_7986597	8	7986597	20.68164	2.20E-09	0.0728
Chroma	Gm08_7986614	8	7986614	20.27784	3.18E-09	0.07363
Chroma	Gm08_7989738	8	7989738	20.86289	1.87E-09	0.07922
Chroma	Gm08_7993878	8	7993878	24.65255	5.64E-11	0.08972
Chroma	Gm08_8000375	8	8000375	28.39983	1.87E-12	0.09948
Chroma	Gm08_8000994	8	8000994	30.67495	2.28E-13	0.10685
Chroma	Gm08_8001123	8	8001123	31.3716	1.30E-13	0.11409
Chroma	Gm08_8001396	8	8001396	26.51527	9.87E-12	0.09109
Chroma	Gm08_8002535	8	8002535	23.82033	1.24E-10	0.08834
Chroma	Gm08_8006736	8	8006736	21.21312	1.33E-09	0.07788
Chroma	Gm08_8008583	8	8008583	31.27042	1.38E-13	0.11189
Chroma	Gm08_8019043	8	8019043	17.78808	3.21E-08	0.05898
Chroma	Gm08_8019129	8	8019129	35.51996	2.89E-15	0.11837
Chroma	Gm08_8024427	8	8024427	25.76633	2.07E-11	0.09872
Chroma	Gm08_8031011	8	8031011	19.70214	5.55E-09	0.07278
Chroma	Gm08_8031082	8	8031082	32.90922	3.18E-14	0.12448
Chroma	Gm08_8042287	8	8042287	23.67445	1.38E-10	0.08718
Chroma	Gm08_8046253	8	8046253	21.55095	9.18E-10	0.07061
Chroma	Gm08_8046406	8	8046406	17.52589	4.04E-08	0.05818
Chroma	Gm08_8047879	8	8047879	24.79176	5.00E-11	0.09032
Chroma	Gm08_8047991	8	8047991	17.04514	6.52E-08	0.05893
Chroma	Gm08_8047994	8	8047994	28.4172	1.75E-12	0.0976
Chroma	Gm08_8048235	8	8048235	27.01592	6.53E-12	0.10281
Chroma	Gm08_8052282	8	8052282	32.52202	4.55E-14	0.11925
Chroma	Gm08_8052324	8	8052324	21.58465	9.55E-10	0.07818
Chroma	Gm08_8052330	8	8052330	20.40336	2.84E-09	0.07416

Chroma	Gm08_8052396	8	8052396	20.44293	2.81E-09	0.07635
Chroma	Gm08_8052705	8	8052705	20.1381	3.63E-09	0.07333
Chroma	Gm08_8052717	8	8052717	18.61523	1.51E-08	0.06721
Chroma	Gm08_8053376	8	8053376	96.94828	3.64E-21	0.18329
Chroma	Gm08_8053477	8	8053477	45.46777	5.12E-19	0.16301
Chroma	Gm08_8055772	8	8055772	40.47209	4.19E-17	0.15411
Chroma	Gm08_8056510	8	8056510	34.40881	8.13E-15	0.12708
Chroma	Gm08_8058494	8	8058494	18.90847	1.14E-08	0.06868
Chroma	Gm08_8058590	8	8058590	31.15804	1.45E-13	0.10781
Chroma	Gm08_8059083	8	8059083	28.33407	1.90E-12	0.09859
Chroma	Gm08_8059184	8	8059184	37.91475	3.91E-16	0.13852
Chroma	Gm08_8059298	8	8059298	26.82684	7.47E-12	0.09311
Chroma	Gm08_8062435	8	8062435	34.30742	9.35E-15	0.12263
Chroma	Gm08_8065674	8	8065674	35.45971	3.08E-15	0.12777
Chroma	Gm08_8066335	8	8066335	41.56356	1.43E-17	0.1395
Chroma	Gm08_8066589	8	8066589	31.80068	8.68E-14	0.1208
Chroma	Gm08_8067540	8	8067540	26.13167	1.40E-11	0.09636
Chroma	Gm08_8069365	8	8069365	35.87441	2.24E-15	0.12451
Chroma	Gm08_8069576	8	8069576	30.70433	2.30E-13	0.10895
Chroma	Gm08_8069606	8	8069606	28.03457	2.55E-12	0.09975
Chroma	Gm08_8081879	8	8081879	32.82327	3.33E-14	0.12297
Chroma	Gm08_8083031	8	8083031	30.93113	1.86E-13	0.11247
Chroma	Gm08_8088815	8	8088815	17.50865	4.34E-08	0.07048
Chroma	Gm08_8088980	8	8088980	26.00042	1.70E-11	0.09843
Chroma	Gm08_8092329	8	8092329	50.36665	8.31E-21	0.18295
Chroma	Gm08_8095794	8	8095794	43.17494	3.83E-18	0.14996
Chroma	Gm08_8096014	8	8096014	40.0551	5.78E-17	0.14108
Chroma	Gm08_8099353	8	8099353	46.39257	2.20E-19	0.16371
Chroma	Gm08_8100194	8	8100194	37.48585	6.01E-16	0.138
Chroma	Gm08_8101680	8	8101680	31.41915	1.21E-13	0.11421
Chroma	Gm08_8110318	8	8110318	40.02502	5.88E-17	0.14254
Chroma	Gm08_8116360	8	8116360	17.52815	4.12E-08	0.06049
Chroma	Gm08_8134325	8	8134325	20.67693	2.27E-09	0.07447
Chroma	Gm08_8138117	8	8138117	20.30738	3.15E-09	0.07516
Chroma	Gm08_8138303	8	8138303	19.14614	9.30E-09	0.07237
Chroma	Gm08_8138857	8	8138857	18.51289	1.68E-08	0.06754
Chroma	Gm08_8139011	8	8139011	18.77658	1.29E-08	0.06622
Chroma	Gm08_8139470	8	8139470	18.058	2.51E-08	0.06309
Chroma	Gm08_8139574	8	8139574	18.44524	1.72E-08	0.06602
Chroma	Gm08_8139626	8	8139626	19.75796	5.15E-09	0.07108
Chroma	Gm08_8139641	8	8139641	17.79089	3.27E-08	0.06496
Chroma	Gm08_8157061	8	8157061	52.28564	1.69E-21	0.18907
Chroma	Gm08_8172987	8	8172987	30.73263	2.32E-13	0.11263
Chroma	Gm08_8176120	8	8176120	32.70875	3.80E-14	0.11867
Chroma	Gm08_8188522	8	8188522	33.51214	1.82E-14	0.1177
Chroma	Gm08_8188523	8	8188523	32.57684	4.27E-14	0.11531

Chroma	Gm08_8190124	8	8190124	30.18498	3.63E-13	0.10813
Chroma	Gm08_8190497	8	8190497	28.45537	1.75E-12	0.10232
Chroma	Gm08_8190546	8	8190546	33.13713	2.56E-14	0.12202
Chroma	Gm08_8191127	8	8191127	61.44022	6.51E-25	0.22272
Chroma	Gm08_8191455	8	8191455	30.50957	2.79E-13	0.11251
Chroma	Gm08_8191743	8	8191743	31.57945	1.03E-13	0.1142
Chroma	Gm08_8192436	8	8192436	26.76445	8.39E-12	0.09711
Chroma	Gm08_8193398	8	8193398	30.79114	2.07E-13	0.10921
Chroma	Gm08_8193403	8	8193403	30.99669	1.77E-13	0.11068
Chroma	Gm08_8193696	8	8193696	29.80836	4.84E-13	0.104
Chroma	Gm08_8194523	8	8194523	27.38701	4.61E-12	0.09877
Chroma	Gm08_8195742	8	8195742	64.13628	9.68E-26	0.23123
Chroma	Gm08_8196111	8	8196111	33.28808	2.23E-14	0.1184
Chroma	Gm08_8196565	8	8196565	32.92331	2.90E-14	0.11259
Chroma	Gm08_8196909	8	8196909	32.10405	6.70E-14	0.11793
Chroma	Gm08_8197293	8	8197293	61.07767	1.22E-24	0.23006
Chroma	Gm08_8197709	8	8197709	32.94472	2.85E-14	0.11681
Chroma	Gm08_8198228	8	8198228	31.9814	7.30E-14	0.11872
Chroma	Gm08_8198246	8	8198246	31.72702	9.19E-14	0.12163
Chroma	Gm08_8199605	8	8199605	28.69269	1.36E-12	0.10061
Chroma	Gm08_8199626	8	8199626	58.93199	5.78E-24	0.21015
Chroma	Gm08_8199882	8	8199882	65.30381	3.09E-26	0.22407
Chroma	Gm08_8200063	8	8200063	33.76934	1.38E-14	0.11648
Chroma	Gm08_8200230	8	8200230	69.65241	8.55E-28	0.23725
Chroma	Gm08_8200825	8	8200825	66.14589	1.21E-26	0.22904
Chroma	Gm08_8201008	8	8201008	55.35752	1.18E-22	0.19246
Chroma	Gm08_8201272	8	8201272	33.87586	1.17E-14	0.11267
Chroma	Gm08_8201476	8	8201476	67.14692	6.01E-27	0.22513
Chroma	Gm08_8201501	8	8201501	63.62305	1.16E-25	0.21611
Chroma	Gm08_8201849	8	8201849	65.09955	3.12E-26	0.22441
Chroma	Gm08_8202357	8	8202357	53.46693	4.92E-22	0.18936
Chroma	Gm08_8202427	8	8202427	33.65477	1.49E-14	0.11425
Chroma	Gm08_8202907	8	8202907	31.30396	1.31E-13	0.10745
Chroma	Gm08_8203074	8	8203074	60.53775	1.52E-24	0.21396
Chroma	Gm08_8203593	8	8203593	25.26264	3.09E-11	0.08823
Chroma	Gm08_8204027	8	8204027	29.80743	5.29E-13	0.11175
Chroma	Gm08_8204715	8	8204715	30.37137	2.88E-13	0.10571
Chroma	Gm08_8204961	8	8204961	62.72509	2.98E-25	0.22235
Chroma	Gm08_8205513	8	8205513	30.34022	3.19E-13	0.1088
Chroma	Gm08_8205579	8	8205579	31.72095	8.79E-14	0.11161
Chroma	Gm08_8205602	8	8205602	31.52543	1.09E-13	0.11329
Chroma	Gm08_8205748	8	8205748	33.51897	1.85E-14	0.11092
Chroma	Gm08_8209460	8	8209460	34.99604	4.82E-15	0.12024
Chroma	Gm08_8210287	8	8210287	19.30975	7.83E-09	0.07249
Chroma	Gm08_8210825	8	8210825	23.59961	1.43E-10	0.08206
Chroma	Gm08_8214801	8	8214801	28.07437	2.48E-12	0.09829

Chroma	Gm08_8216666	8	8216666	56.25545	6.01E-23	0.21438
Chroma	Gm08_8217631	8	8217631	22.29732	4.67E-10	0.07832
Chroma	Gm08_8230569	8	8230569	25.40465	2.69E-11	0.08324
Chroma	Gm08_8232667	8	8232667	26.04649	1.53E-11	0.08776
Chroma	Gm08_8232993	8	8232993	36.3403	1.30E-15	0.12006
Chroma	Gm08_8233645	8	8233645	35.81552	2.26E-15	0.11987
Chroma	Gm08_8236097	8	8236097	29.05653	1.05E-12	0.11007
Chroma	Gm08_8236244	8	8236244	28.2222	2.04E-12	0.09731
Chroma	Gm08_8236763	8	8236763	30.92629	1.73E-13	0.10249
Chroma	Gm08_8236862	8	8236862	28.86238	1.15E-12	0.09997
Chroma	Gm08_8236894	8	8236894	30.05048	4.03E-13	0.10415
Chroma	Gm08_8237654	8	8237654	36.17295	1.62E-15	0.12494
Chroma	Gm08_8238668	8	8238668	29.05766	9.91E-13	0.10217
Chroma	Gm08_8238813	8	8238813	25.4799	2.69E-11	0.0985
Chroma	Gm08_8241224	8	8241224	64.37718	7.72E-26	0.2373
Chroma	Gm08_8241247	8	8241247	28.08722	2.50E-12	0.10462
Chroma	Gm08_8242850	8	8242850	63.84765	1.17E-25	0.21726
Chroma	Gm08_8243491	8	8243491	54.71112	2.28E-22	0.2101
Chroma	Gm08_8244136	8	8244136	74.33936	1.88E-29	0.24715
Chroma	Gm08_8245354	8	8245354	25.19443	3.37E-11	0.09108
Chroma	Gm08_8245529	8	8245529	69.35539	1.01E-27	0.23229
Chroma	Gm08_8259822	8	8259822	67.41723	4.40E-27	0.21714
Chroma	Gm08_8267574	8	8267574	55.88502	8.37E-23	0.20091
Chroma	Gm08_8267782	8	8267782	23.71657	1.33E-10	0.09398
Chroma	Gm08_8267935	8	8267935	24.29712	7.72E-11	0.08785
Chroma	Gm08_8270790	8	8270790	27.72164	3.42E-12	0.10308
Chroma	Gm08_8270797	8	8270797	27.71929	3.45E-12	0.10558
Chroma	Gm08_8285621	8	8285621	31.15523	1.56E-13	0.11375
Chroma	Gm08_8285888	8	8285888	61.26519	8.76E-25	0.22331
Chroma	Gm08_8288351	8	8288351	27.79496	3.05E-12	0.0945
Chroma	Gm08_8303757	8	8303757	25.5726	2.36E-11	0.08876
Chroma	Gm08_8303996	8	8303996	27.21387	5.48E-12	0.10135
Chroma	Gm08_8306163	8	8306163	70.70899	5.05E-28	0.26139
Chroma	Gm08_8306458	8	8306458	39.30886	1.04E-16	0.13208
Chroma	Gm08_8311989	8	8311989	62.2965	3.66E-25	0.20969
Chroma	Gm08_8312343	8	8312343	50.56226	5.91E-21	0.18136
Chroma	Gm08_8313215	8	8313215	63.07597	1.59E-25	0.21795
Chroma	Gm08_8313241	8	8313241	58.40012	9.12E-24	0.20635
Chroma	Gm08_8313428	8	8313428	48.58613	3.98E-20	0.19133
Chroma	Gm08_8313640	8	8313640	51.594	2.95E-21	0.18552
Chroma	Gm08_8314161	8	8314161	27.42607	4.22E-12	0.0927
Chroma	Gm08_8314707	8	8314707	56.71853	4.03E-23	0.20804
Chroma	Gm08_8314788	8	8314788	58.46487	8.16E-24	0.20889
Chroma	Gm08_8314827	8	8314827	56.61585	3.62E-23	0.20583
Chroma	Gm08_8314987	8	8314987	58.64472	8.12E-24	0.21505
Chroma	Gm08_8316860	8	8316860	57.52162	2.09E-23	0.21148

Chroma	Gm08_8317597	8	8317597	29.82803	4.84E-13	0.10559
Chroma	Gm08_8318754	8	8318754	24.52945	6.35E-11	0.08976
Chroma	Gm08_8318759	8	8318759	36.89288	9.74E-16	0.13506
Chroma	Gm08_8318837	8	8318837	67.38985	6.96E-27	0.23225
Chroma	Gm08_8319060	8	8319060	57.06607	3.29E-23	0.20641
Chroma	Gm08_8319085	8	8319085	61.02167	1.17E-24	0.21844
Chroma	Gm08_8319087	8	8319087	57.70857	1.92E-23	0.21588
Chroma	Gm08_8319115	8	8319115	58.99782	6.07E-24	0.22212
Chroma	Gm08_8319708	8	8319708	16.79755	8.19E-08	0.05836
Chroma	Gm08_8319732	8	8319732	51.47281	3.32E-21	0.1866
Chroma	Gm08_8319744	8	8319744	55.72588	9.18E-23	0.19803
Chroma	Gm08_8319787	8	8319787	55.90592	7.78E-23	0.20248
Chroma	Gm08_8319795	8	8319795	59.28948	4.34E-24	0.2085
Chroma	Gm08_8319817	8	8319817	57.29204	2.52E-23	0.19808
Chroma	Gm08_8319867	8	8319867	50.97054	5.13E-21	0.18747
Chroma	Gm08_8322185	8	8322185	57.66931	1.91E-23	0.20864
Chroma	Gm08_8322357	8	8322357	58.0763	1.18E-23	0.19446
Chroma	Gm08_8323966	8	8323966	29.76395	5.08E-13	0.10262
Chroma	Gm08_8323971	8	8323971	63.51505	1.35E-25	0.22069
Chroma	Gm08_8323983	8	8323983	60.81213	1.26E-24	0.21509
Chroma	Gm08_8324392	8	8324392	60.91988	9.50E-25	0.19838
Chroma	Gm08_8328261	8	8328261	68.26885	2.97E-27	0.24102
Chroma	Gm08_8328392	8	8328392	18.92416	1.13E-08	0.06863
Chroma	Gm08_8328540	8	8328540	17.1488	6.01E-08	0.06297
Chroma	Gm08_8329538	8	8329538	24.63653	5.64E-11	0.08597
Chroma	Gm08_8346276	8	8346276	17.29133	5.27E-08	0.06298
Chroma	Gm08_8346291	8	8346291	18.0319	2.67E-08	0.06656
Chroma	Gm08_8354601	8	8354601	37.88138	3.82E-16	0.13666
Chroma	Gm08_8359499	8	8359499	27.79282	2.86E-12	0.09173
Chroma	Gm08_8360663	8	8360663	45.34136	4.98E-19	0.16225
Chroma	Gm08_8362234	8	8362234	19.33601	7.76E-09	0.072
Chroma	Gm08_8364457	8	8364457	33.11663	2.38E-14	0.11483
Chroma	Gm08_8364601	8	8364601	22.6101	3.57E-10	0.08446
Chroma	Gm08_8368519	8	8368519	33.51167	1.76E-14	0.11021
Chroma	Gm08_8368552	8	8368552	56.49204	3.99E-23	0.18937
Chroma	Gm08_8371230	8	8371230	75.19474	1.10E-29	0.26254
Chroma	Gm08_8373581	8	8373581	82.88859	1.51E-32	0.27172
Chroma	Gm08_8374519	8	8374519	83.93917	1.46E-32	0.29639
Chroma	Gm08_8374643	8	8374643	75.86322	8.70E-30	0.27207
Chroma	Gm08_8374655	8	8374655	50.00095	1.11E-20	0.17414
Chroma	Gm08_8374738	8	8374738	65.9931	2.21E-26	0.25388
Chroma	Gm08_8374743	8	8374743	32.85571	3.38E-14	0.12471
Chroma	Gm08_8375080	8	8375080	44.8801	8.09E-19	0.14893
Chroma	Gm08_8375124	8	8375124	42.566	6.36E-18	0.15128
Chroma	Gm08_8375522	8	8375522	40.09955	5.15E-17	0.1359
Chroma	Gm08_8375603	8	8375603	46.35592	2.25E-19	0.15751

Chroma	Gm08_8375666	8	8375666	65.90411	1.29E-26	0.21566
Chroma	Gm08_8375961	8	8375961	23.2632	1.89E-10	0.07628
Chroma	Gm08_8376085	8	8376085	67.51705	4.99E-27	0.22517
Chroma	Gm08_8377404	8	8377404	42.54127	6.28E-18	0.14728
Chroma	Gm08_8377783	8	8377783	75.64659	9.89E-30	0.26662
Chroma	Gm08_8378225	8	8378225	52.834	1.15E-21	0.2023
Chroma	Gm08_8379915	8	8379915	44.64554	9.52E-19	0.14651
Chroma	Gm08_8380062	8	8380062	42.90766	3.70E-18	0.13935
Chroma	Gm08_8380544	8	8380544	37.42204	4.82E-16	0.11664
Chroma	Gm08_8380771	8	8380771	33.46677	1.73E-14	0.11504
Chroma	Gm08_8380778	8	8380778	35.93567	1.90E-15	0.12149
Chroma	Gm08_8380797	8	8380797	38.04082	2.95E-16	0.12835
Chroma	Gm08_8380961	8	8380961	39.87589	5.82E-17	0.13553
Chroma	Gm08_8380988	8	8380988	35.89042	2.04E-15	0.12424
Chroma	Gm08_8381058	8	8381058	74.96148	1.05E-29	0.24964
Chroma	Gm08_8381111	8	8381111	39.28077	9.47E-17	0.12858
Chroma	Gm08_8381483	8	8381483	33.8831	1.12E-14	0.10683
Chroma	Gm08_8381494	8	8381494	34.90753	4.41E-15	0.10962
Chroma	Gm08_8381764	8	8381764	74.83925	9.39E-30	0.24298
Chroma	Gm08_8390797	8	8390797	102.1617	2.86E-39	0.29566
Chroma	Gm08_8391476	8	8391476	24.60009	5.07E-11	0.07407
Chroma	Gm08_8391589	8	8391589	21.02248	1.45E-09	0.06476
Chroma	Gm08_8391636	8	8391636	29.24999	7.69E-13	0.09264
Chroma	Gm08_8391703	8	8391703	28.52002	1.33E-12	0.08717
Chroma	Gm08_8392065	8	8392065	21.53416	8.64E-10	0.06262
Chroma	Gm08_8392089	8	8392089	21.38832	9.86E-10	0.06183
Chroma	Gm08_8392458	8	8392458	21.86547	6.32E-10	0.0659
Chroma	Gm08_8392597	8	8392597	59.02455	7.06E-14	0.10278
Chroma	Gm08_8392883	8	8392883	26.46363	9.03E-12	0.08032
Chroma	Gm08_8393576	8	8393576	79.90435	1.20E-31	0.26075
Chroma	Gm08_8393771	8	8393771	31.02945	1.61E-13	0.10991
Chroma	Gm08_8393781	8	8393781	26.25051	1.31E-11	0.10052
Chroma	Gm08_8394768	8	8394768	19.55596	5.97E-09	0.06421
Chroma	Gm08_8394915	8	8394915	91.27477	2.31E-35	0.30243
Chroma	Gm08_8395520	8	8395520	21.029	1.50E-09	0.07354
Chroma	Gm08_8398559	8	8398559	85.39461	2.53E-33	0.28235
Chroma	Gm08_8399515	8	8399515	92.07594	1.08E-35	0.29573
Chroma	Gm08_8400595	8	8400595	90.53449	4.21E-35	0.29457
Chroma	Gm08_8402470	8	8402470	32.42778	1.99E-08	0.05773
Chroma	Gm08_8402471	8	8402471	33.62408	1.12E-08	0.06009
Chroma	Gm08_8402813	8	8402813	17.84593	3.04E-08	0.06446
Chroma	Gm08_8420033	8	8420033	79.91507	2.62E-31	0.28804
Chroma	Gm08_8421326	8	8421326	17.71251	3.56E-08	0.06618
Chroma	Gm08_8435735	8	8435735	22.30573	4.77E-10	0.08186
Chroma	Gm08_8438870	8	8438870	79.46283	5.37E-31	0.29136
Chroma	Gm08_8438876	8	8438876	42.08028	1.04E-17	0.15768

Chroma	Gm08_8438936	8	8438936	44.68459	1.05E-18	0.16581
Chroma	Gm08_8439073	8	8439073	79.10163	7.32E-31	0.29268
Chroma	Gm08_8457731	8	8457731	45.23093	6.27E-19	0.15201
Chroma	Gm08_8458705	8	8458705	31.67853	1.05E-13	0.1249
Chroma	Gm08_8473227	8	8473227	75.67139	9.18E-30	0.26868
Chroma	Gm08_8473291	8	8473291	19.96771	4.20E-09	0.07022
Chroma	Gm08_8473662	8	8473662	33.72063	1.55E-14	0.12122
Chroma	Gm08_8508773	8	8508773	18.19382	2.19E-08	0.06296
Chroma	Gm08_8508776	8	8508776	17.29135	5.15E-08	0.06028
Chroma	Gm08_8509645	8	8509645	22.05256	6.02E-10	0.07825
Chroma	Gm08_8509775	8	8509775	23.03385	2.42E-10	0.08045
Chroma	Gm08_8513329	8	8513329	65.56603	1.95E-26	0.21987
Chroma	Gm08_8513330	8	8513330	66.51371	9.19E-27	0.2239
Chroma	Gm08_8513350	8	8513350	50.89012	3.63E-21	0.16293
Chroma	Gm08_8513390	8	8513390	74.83707	6.56E-30	0.2349
Chroma	Gm08_8513442	8	8513442	76.56514	1.09E-30	0.22523
Chroma	Gm08_8526593	8	8526593	63.35146	1.55E-25	0.21802
Chroma	Gm08_8527558	8	8527558	17.7751	3.28E-08	0.06296
Chroma	Gm08_8530246	8	8530246	23.12373	2.26E-10	0.08225
Chroma	Gm08_8530715	8	8530715	51.78589	2.03E-21	0.17792
Chroma	Gm08_8530785	8	8530785	17.83849	3.12E-08	0.06468
Chroma	Gm08_8530811	8	8530811	23.40975	1.71E-10	0.08104
Chroma	Gm08_8530829	8	8530829	24.16614	8.55E-11	0.08571
Chroma	Gm08_8530878	8	8530878	72.31307	1.10E-28	0.24743
Chroma	Gm08_8531152	8	8531152	17.5705	4.06E-08	0.0654
Chroma	Gm08_8531722	8	8531722	22.25672	5.05E-10	0.08266
Chroma	Gm08_8531743	8	8531743	21.95619	6.59E-10	0.07509
Chroma	Gm08_8531901	8	8531901	30.58161	2.38E-13	0.10307
Chroma	Gm08_8531923	8	8531923	26.94905	6.63E-12	0.09435
Chroma	Gm08_8532182	8	8532182	23.01339	2.54E-10	0.08347
Chroma	Gm08_8532274	8	8532274	42.3783	8.06E-18	0.1554
Chroma	Gm08_8532878	8	8532878	18.73705	1.33E-08	0.06489
Chroma	Gm08_8535064	8	8535064	45.45105	4.56E-19	0.15732
Chroma	Gm08_8535153	8	8535153	19.99633	4.01E-09	0.06977
Chroma	Gm08_8535241	8	8535241	23.60783	1.42E-10	0.08672
Chroma	Gm08_8535483	8	8535483	26.37899	1.10E-11	0.08731
Chroma	Gm08_8535484	8	8535484	24.51369	6.13E-11	0.08106
Chroma	Gm08_8536695	8	8536695	21.49737	1.02E-09	0.07651
Chroma	Gm08_8537176	8	8537176	26.40927	1.16E-11	0.09853
Chroma	Gm08_8537481	8	8537481	18.99822	1.02E-08	0.06475
Chroma	Gm08_8537510	8	8537510	18.18764	2.19E-08	0.06107
Chroma	Gm08_8537579	8	8537579	18.88796	1.14E-08	0.06571
Chroma	Gm08_8538060	8	8538060	18.39953	1.81E-08	0.06677
Chroma	Gm08_8538286	8	8538286	48.60279	3.73E-20	0.17756
Chroma	Gm08_8538449	8	8538449	18.21188	2.18E-08	0.0635
Chroma	Gm08_8539128	8	8539128	68.78992	1.93E-27	0.23847

Chroma	Gm08_8539249	8	8539249	17.46206	4.42E-08	0.06503
Chroma	Gm08_8539257	8	8539257	20.60225	2.35E-09	0.07637
Chroma	Gm08_8539508	8	8539508	20.14918	3.57E-09	0.07529
Chroma	Gm08_8539700	8	8539700	23.14558	2.24E-10	0.08475
Chroma	Gm08_8540424	8	8540424	23.19899	2.10E-10	0.07716
Chroma	Gm08_8540829	8	8540829	21.65933	8.75E-10	0.08171
Chroma	Gm08_8541020	8	8541020	21.62016	8.95E-10	0.07731
Chroma	Gm08_8541224	8	8541224	21.45084	1.07E-09	0.0782
Chroma	Gm08_8541531	8	8541531	23.11327	2.34E-10	0.08523
Chroma	Gm08_8541533	8	8541533	22.36557	4.72E-10	0.08474
Chroma	Gm08_8541663	8	8541663	18.34683	1.90E-08	0.06512
Chroma	Gm08_8541967	8	8541967	25.70746	2.10E-11	0.08977
Chroma	Gm08_8542721	8	8542721	21.4074	1.13E-09	0.07345
Chroma	Gm08_8542855	8	8542855	18.03353	2.58E-08	0.06872
Chroma	Gm08_8542910	8	8542910	21.17998	1.37E-09	0.07601
Chroma	Gm08_8543168	8	8543168	18.56541	1.54E-08	0.06456
Chroma	Gm08_8543284	8	8543284	18.27057	2.05E-08	0.06453
Chroma	Gm08_8543287	8	8543287	19.05084	9.85E-09	0.067
Chroma	Gm08_8543674	8	8543674	25.11915	3.68E-11	0.0924
Chroma	Gm08_8543708	8	8543708	26.51075	1.05E-11	0.0957
Chroma	Gm08_8543723	8	8543723	26.45268	1.09E-11	0.09543
Chroma	Gm08_8544856	8	8544856	18.28096	2.04E-08	0.06477
Chroma	Gm08_8544857	8	8544857	19.53281	6.46E-09	0.07203
Chroma	Gm08_8544869	8	8544869	19.13006	9.34E-09	0.06747
Chroma	Gm08_8544870	8	8544870	19.39816	7.29E-09	0.06872
Chroma	Gm08_8544931	8	8544931	56.32524	6.55E-23	0.22053
Chroma	Gm08_8544975	8	8544975	17.83804	3.09E-08	0.06518
Chroma	Gm08_8545043	8	8545043	17.84448	3.14E-08	0.06481
Chroma	Gm08_8546329	8	8546329	18.58929	1.55E-08	0.06414
Chroma	Gm08_8546381	8	8546381	20.4669	2.62E-09	0.07146
Chroma	Gm08_8546496	8	8546496	20.00819	3.99E-09	0.07147
Chroma	Gm08_8546538	8	8546538	20.78017	1.99E-09	0.07572
Chroma	Gm08_8546690	8	8546690	17.648	3.73E-08	0.06544
Chroma	Gm08_8547836	8	8547836	20.38358	2.89E-09	0.07443
Chroma	Gm08_8547881	8	8547881	17.41	4.66E-08	0.06193
Chroma	Gm08_8548478	8	8548478	18.57531	1.56E-08	0.06784
Chroma	Gm08_8549697	8	8549697	17.39857	4.76E-08	0.06818
Chroma	Gm08_8550166	8	8550166	24.26211	8.08E-11	0.08364
Chroma	Gm08_8550222	8	8550222	24.2425	7.95E-11	0.08381
Chroma	Gm08_8550815	8	8550815	23.55966	1.51E-10	0.08334
Chroma	Gm08_8550903	8	8550903	22.59096	3.71E-10	0.07764
Chroma	Gm08_8551421	8	8551421	24.87609	4.57E-11	0.09075
Chroma	Gm08_8551437	8	8551437	22.79281	3.13E-10	0.08657
Chroma	Gm08_8551458	8	8551458	23.79924	1.22E-10	0.08602
Chroma	Gm08_8551462	8	8551462	25.85483	1.85E-11	0.09377
Chroma	Gm08_8551560	8	8551560	20.10946	3.74E-09	0.07063

Chroma	Gm08_8551674	8	8551674	17.27611	5.29E-08	0.06148
Chroma	Gm08_8551807	8	8551807	18.33693	1.98E-08	0.06568
Chroma	Gm08_8552667	8	8552667	25.58271	2.37E-11	0.09083
Chroma	Gm08_8552680	8	8552680	26.10479	1.49E-11	0.09073
Chroma	Gm08_8557526	8	8557526	22.21381	5.33E-10	0.08153
Chroma	Gm08_8557749	8	8557749	22.49147	4.02E-10	0.0796
Chroma	Gm08_8562604	8	8562604	73.73855	4.20E-29	0.27722
Chroma	Gm08_8564702	8	8564702	54.99124	1.65E-22	0.20323
Chroma	Gm08_8567208	8	8567208	79.15509	5.02E-31	0.26592
Chroma	Gm08_8568732	8	8568732	22.44473	4.15E-10	0.07707
Chroma	Gm08_8573698	8	8573698	51.25958	3.63E-21	0.17559
Chroma	Gm08_8581777	8	8581777	23.75791	1.25E-10	0.08404
Chroma	Gm08_8582311	8	8582311	74.05922	3.31E-29	0.26195
Chroma	Gm08_8593015	8	8593015	45.03118	7.14E-19	0.16016
Chroma	Gm08_8596080	8	8596080	68.02654	3.77E-27	0.24224
Chroma	Gm08_8598389	8	8598389	18.89712	1.14E-08	0.06887
Chroma	Gm08_8598614	8	8598614	54.51527	2.32E-22	0.18828
Chroma	Gm08_8599062	8	8599062	48.35223	4.53E-20	0.17418
Chroma	Gm08_8599104	8	8599104	18.82913	1.25E-08	0.07299
Chroma	Gm08_8599749	8	8599749	44.43257	1.24E-18	0.16169
Chroma	Gm08_8600110	8	8600110	39.82306	6.61E-17	0.14786
Chroma	Gm08_8600112	8	8600112	41.67812	1.31E-17	0.15304
Chroma	Gm08_8600577	8	8600577	41.62928	1.44E-17	0.14962
Chroma	Gm08_8600731	8	8600731	44.29892	1.43E-18	0.15814
Chroma	Gm08_8606073	8	8606073	33.98588	1.26E-14	0.12697
Chroma	Gm08_8611170	8	8611170	50.93691	4.93E-21	0.18198
Chroma	Gm08_8618655	8	8618655	28.65508	1.40E-12	0.10435
Chroma	Gm08_8625732	8	8625732	29.86176	4.89E-13	0.10943
Chroma	Gm08_8630161	8	8630161	20.92338	1.76E-09	0.07497
Chroma	Gm08_8635529	8	8635529	18.90223	1.16E-08	0.07239
Chroma	Gm08_8642278	8	8642278	23.20713	2.15E-10	0.08481
Chroma	Gm08_8655544	8	8655544	18.63692	1.51E-08	0.0672
Chroma	Gm08_8661207	8	8661207	49.72666	1.61E-20	0.18808
Chroma	Gm08_8661940	8	8661940	55.62665	1.05E-22	0.19591
Chroma	Gm08_8661946	8	8661946	55.0407	1.72E-22	0.19495
Chroma	Gm08_8665831	8	8665831	20.18398	3.47E-09	0.07219
Chroma	Gm08_8669224	8	8669224	29.67314	5.72E-13	0.10349
Chroma	Gm08_8670168	8	8670168	27.0923	5.65E-12	0.09317
Chroma	Gm08_8672494	8	8672494	39.63651	8.95E-17	0.15761
Chroma	Gm08_8675132	8	8675132	42.27273	9.45E-18	0.16237
Chroma	Gm08_8679805	8	8679805	28.23254	2.17E-12	0.11515
Chroma	Gm08_8694446	8	8694446	21.05623	1.49E-09	0.07035
Chroma	Gm08_8704007	8	8704007	19.44118	7.00E-09	0.06662
Chroma	Gm08_8711592	8	8711592	20.52551	2.54E-09	0.07105
Chroma	Gm08_8714742	8	8714742	28.9478	1.10E-12	0.10113
Chroma	Gm08_8718333	8	8718333	19.95968	4.26E-09	0.07484

Chroma	Gm08_8719983	8	8719983	27.02828	6.43E-12	0.09865
Chroma	Gm08_8724028	8	8724028	28.20927	2.22E-12	0.10342
Chroma	Gm08_8724679	8	8724679	16.68014	9.35E-08	0.06487
Chroma	Gm08_8728517	8	8728517	16.76962	8.60E-08	0.05738
Chroma	Gm08_8730779	8	8730779	34.47267	7.63E-15	0.1221
Chroma	Gm08_8732105	8	8732105	18.35059	1.94E-08	0.06518
Chroma	Gm08_8733180	8	8733180	16.81278	8.34E-08	0.06514
Chroma	Gm08_8733296	8	8733296	19.83834	4.77E-09	0.0768
Chroma	Gm08_8733318	8	8733318	21.4978	1.02E-09	0.08004
Chroma	Gm08_8733852	8	8733852	29.04825	1.02E-12	0.1104
Chroma	Gm08_8734345	8	8734345	38.28271	2.71E-16	0.13683
Chroma	Gm08_8741243	8	8741243	24.57036	6.18E-11	0.09049
Chroma	Gm08_8741992	8	8741992	29.71375	5.59E-13	0.10409
Chroma	Gm08_8742487	8	8742487	17.17076	5.87E-08	0.06179
Chroma	Gm08_8742890	8	8742890	34.19822	1.02E-14	0.12154
Chroma	Gm08_8744275	8	8744275	26.90209	6.82E-12	0.09229
Chroma	Gm08_8748456	8	8748456	26.23584	1.30E-11	0.09071
Chroma	Gm08_8748463	8	8748463	25.46397	2.67E-11	0.09092
Chroma	Gm08_8752677	8	8752677	28.05791	2.42E-12	0.09314
Chroma	Gm08_8752816	8	8752816	28.79523	1.33E-12	0.10392
Chroma	Gm08_8753400	8	8753400	28.78885	1.31E-12	0.10307
Chroma	Gm08_8753446	8	8753446	27.8718	3.02E-12	0.10599
Chroma	Gm08_8753556	8	8753556	34.25379	8.95E-15	0.12067
Chroma	Gm08_8753670	8	8753670	36.05459	1.74E-15	0.1197
Chroma	Gm08_8754364	8	8754364	31.85149	8.13E-14	0.11585
Chroma	Gm08_8754420	8	8754420	37.06889	7.90E-16	0.13427
Chroma	Gm08_8754534	8	8754534	27.02871	6.14E-12	0.09817
Chroma	Gm08_8756149	8	8756149	32.02426	6.78E-14	0.11486
Chroma	Gm08_8756368	8	8756368	39.26368	1.01E-16	0.12829
Chroma	Gm08_8756533	8	8756533	17.47408	4.26E-08	0.05746
Chroma	Gm08_8757269	8	8757269	30.00394	4.10E-13	0.10662
Chroma	Gm08_8758852	8	8758852	16.95052	7.19E-08	0.0581
Chroma	Gm08_8758857	8	8758857	24.09257	9.38E-11	0.08458
Chroma	Gm08_8758861	8	8758861	33.95894	1.27E-14	0.1228
Chroma	Gm08_8759543	8	8759543	33.6753	1.52E-14	0.118
Chroma	Gm08_8760738	8	8760738	16.91861	7.46E-08	0.06466
Chroma	Gm08_8760790	8	8760790	17.94749	2.83E-08	0.06522
Chroma	Gm08_8761516	8	8761516	16.58976	9.97E-08	0.05893
Chroma	Gm08_8763923	8	8763923	26.19498	1.40E-11	0.09098
Chroma	Gm08_8764778	8	8764778	26.05737	1.51E-11	0.09482
Chroma	Gm08_8769254	8	8769254	24.99389	4.01E-11	0.08963
Chroma	Gm08_8772458	8	8772458	18.66565	1.46E-08	0.06932
Chroma	Gm08_8794937	8	8794937	16.70063	9.07E-08	0.05648
Chroma	Gm08_8797093	8	8797093	18.46744	1.70E-08	0.06663
Chroma	Gm08_8797990	8	8797990	23.91031	1.09E-10	0.08689
Chroma	Gm08_8800773	8	8800773	18.71935	1.34E-08	0.06255

Chroma	Gm08_8803261	8	8803261	30.46673	2.71E-13	0.11091
Chroma	Gm08_8804658	8	8804658	32.83506	3.54E-14	0.12369
Chroma	Gm08_8810936	8	8810936	35.56701	3.04E-15	0.12903
Chroma	Gm08_8814426	8	8814426	17.55705	4.06E-08	0.06153
Chroma	Gm08_8951069	8	8951069	22.07726	5.96E-10	0.07489
Chroma	Gm08_8951476	8	8951476	20.88396	1.78E-09	0.07134
Chroma	Gm08_8951494	8	8951494	23.82424	1.16E-10	0.08063
Chroma	Gm08_8951547	8	8951547	24.6271	5.58E-11	0.08426
Chroma	Gm08_8951607	8	8951607	24.00562	9.47E-11	0.07866
Chroma	Gm08_8983243	8	8983243	22.05787	6.16E-10	0.08242
Chroma	Gm08_8994913	8	8994913	25.54764	2.31E-11	0.08341
Chroma	Gm08_9003171	8	9003171	29.58936	6.22E-13	0.10649
Chroma	Gm08_9003237	8	9003237	29.29831	8.36E-13	0.1076
Chroma	Gm08_9004627	8	9004627	22.01177	6.50E-10	0.08682
Chroma	Gm08_9005247	8	9005247	24.49291	6.71E-11	0.09394
Chroma	Gm08_9005430	8	9005430	28.03664	2.51E-12	0.09933
Chroma	Gm08_9005432	8	9005432	26.96228	6.71E-12	0.09666
Chroma	Gm08_9041378	8	9041378	29.83973	5.01E-13	0.1059
Chroma	Gm08_9049801	8	9049801	27.61258	3.70E-12	0.0979
Chroma	Gm08_9054741	8	9054741	31.16948	1.44E-13	0.10585
Chroma	Gm08_9054872	8	9054872	29.23445	8.41E-13	0.09812
Chroma	Gm08_9056324	8	9056324	24.31259	7.57E-11	0.09079
Chroma	Gm08_9063387	8	9063387	17.34571	4.96E-08	0.06228
Chroma	Gm08_9071236	8	9071236	24.15749	9.18E-11	0.09143
Chroma	Gm08_9071263	8	9071263	32.55201	4.71E-14	0.12531
Chroma	Gm08_9077545	8	9077545	25.54259	2.41E-11	0.09137
Chroma	Gm08_9106457	8	9106457	16.84414	7.97E-08	0.06104
Chroma	Gm08_9106480	8	9106480	18.71633	1.38E-08	0.06884
Chroma	Gm08_9106502	8	9106502	16.80839	8.27E-08	0.06095
Chroma	Gm08_9106852	8	9106852	19.52475	6.53E-09	0.07231
Chroma	Gm08_9107321	8	9107321	18.92823	1.12E-08	0.06552
Chroma	Gm08_9107362	8	9107362	16.86233	7.73E-08	0.05697
Chroma	Gm08_9115611	8	9115611	16.6632	9.55E-08	0.05976
Chroma	Gm08_9119281	8	9119281	19.51463	6.32E-09	0.0684
Chroma	Gm08_9127538	8	9127538	19.00494	1.03E-08	0.06946
Chroma	Gm08_9148564	8	9148564	20.25634	3.26E-09	0.07072
Chroma	Gm08_9437601	8	9437601	17.97831	2.76E-08	0.07128
Chroma	Gm08_9904331	8	9904331	20.46803	2.65E-09	0.06996
Chroma	Gm08_9908781	8	9908781	17.61227	3.85E-08	0.06127
Chroma	Gm17_40332350	17	40332350	17.13157	6.02E-08	0.0605
Color	Gm1_6111085	1	6111085	18.22372	2.15E-08	0.06023
Color	Gm1_34475129	1	34475129	19.74673	4.88E-09	0.06153
Color	Gm02_39870270	2	39870270	17.12898	6.04E-08	0.05647
Color	Gm04_12729200	4	12729200	17.36278	4.70E-08	0.05745
Color	Gm04_12933539	4	12933539	19.28574	7.94E-09	0.06896
Color	Gm04_13177161	4	13177161	17.41705	4.58E-08	0.05842

Color	Gm04_13282285	4	13282285	16.8403	7.92E-08	0.05827
Color	Gm04_13309090	4	13309090	17.05832	6.41E-08	0.05843
Color	Gm04_13355698	4	13355698	17.16356	5.91E-08	0.0605
Color	Gm04_13515678	4	13515678	19.65539	5.72E-09	0.06732
Color	Gm04_13521607	4	13521607	17.71872	3.39E-08	0.0572
Color	Gm04_13526346	4	13526346	21.85792	6.90E-10	0.07181
Color	Gm04_13532347	4	13532347	17.91416	2.79E-08	0.05894
Color	Gm04_13608585	4	13608585	16.98999	6.78E-08	0.05938
Color	Gm04_13728746	4	13728746	17.19928	5.60E-08	0.05681
Color	Gm04_13749664	4	13749664	18.31496	1.93E-08	0.06195
Color	Gm04_13749800	4	13749800	22.33223	4.48E-10	0.0724
Color	Gm04_13771892	4	13771892	17.02387	6.62E-08	0.05915
Color	Gm04_13855723	4	13855723	17.98523	2.70E-08	0.06295
Color	Gm04_13876644	4	13876644	18.70524	1.34E-08	0.06365
Color	Gm04_14133391	4	14133391	16.69064	8.99E-08	0.05577
Color	Gm04_14184249	4	14184249	17.84046	3.06E-08	0.0648
Color	Gm04_14228631	4	14228631	18.71209	1.32E-08	0.0593
Color	Gm04_14229585	4	14229585	16.92793	7.17E-08	0.05537
Color	Gm04_14243987	4	14243987	16.71063	8.66E-08	0.05237
Color	Gm04_14254784	4	14254784	18.23695	2.09E-08	0.06136
Color	Gm04_14333406	4	14333406	18.11076	2.34E-08	0.06112
Color	Gm04_42693708	4	42693708	18.90017	1.13E-08	0.06598
Color	Gm04_42693710	4	42693710	18.55602	1.56E-08	0.06469
Color	Gm04_42698572	4	42698572	19.60479	5.81E-09	0.06579
Color	Gm04_42785408	4	42785408	16.58008	9.92E-08	0.05409
Color	Gm04_42803260	4	42803260	18.05852	2.53E-08	0.06181
Color	Gm04_43504489	4	43504489	17.68327	3.51E-08	0.05978
Color	Gm04_44620540	4	44620540	20.06493	3.78E-09	0.07381
Color	Gm05_12789434	5	12789434	22.47615	3.85E-10	0.07171
Color	Gm05_12789445	5	12789445	19.95684	4.07E-09	0.06342
Color	Gm05_38028677	5	38028677	16.83016	8.22E-08	0.06364
Color	Gm06_2801208	6	2801208	31.0353	3.91E-08	0.05272
Color	Gm06_9398734	6	9398734	17.35374	4.92E-08	0.06209
Color	Gm06_9398770	6	9398770	17.18827	5.76E-08	0.06373
Color	Gm06_9460602	6	9460602	17.88263	2.96E-08	0.06524
Color	Gm06_9460603	6	9460603	18.23598	2.13E-08	0.06685
Color	Gm06_9460790	6	9460790	17.48252	4.39E-08	0.06499
Color	Gm06_9506937	6	9506937	16.59697	9.87E-08	0.054
Color	Gm06_9549049	6	9549049	17.16797	5.83E-08	0.05783
Color	Gm06_9632493	6	9632493	17.08175	6.41E-08	0.06139
Color	Gm06_9641712	6	9641712	16.74296	8.78E-08	0.05725
Color	Gm07_1293309	7	1293309	19.57875	5.83E-09	0.05926
Color	Gm07_1293332	7	1293332	18.17398	2.20E-08	0.05734
Color	Gm07_1293333	7	1293333	18.12668	2.30E-08	0.05698
Color	Gm08_6813523	8	6813523	18.67474	1.40E-08	0.06472
Color	Gm08_7820505	8	7820505	20.85548	1.89E-09	0.07221

Color	Gm08_7880131	8	7880131	21.37552	1.14E-09	0.06945
Color	Gm08_7880175	8	7880175	19.29424	7.98E-09	0.06533
Color	Gm08_7890026	8	7890026	21.70729	8.41E-10	0.07192
Color	Gm08_7985936	8	7985936	19.21382	8.37E-09	0.06546
Color	Gm08_7993878	8	7993878	19.26882	8.22E-09	0.06598
Color	Gm08_8000375	8	8000375	25.46285	2.70E-11	0.09256
Color	Gm08_8000994	8	8000994	27.59506	3.72E-12	0.09576
Color	Gm08_8001123	8	8001123	27.60082	3.89E-12	0.10017
Color	Gm08_8001396	8	8001396	22.63935	3.49E-10	0.07801
Color	Gm08_8002535	8	8002535	22.95704	2.74E-10	0.078
Color	Gm08_8006736	8	8006736	21.68836	8.55E-10	0.07348
Color	Gm08_8008583	8	8008583	30.96547	1.81E-13	0.11393
Color	Gm08_8019129	8	8019129	30.98121	1.68E-13	0.10575
Color	Gm08_8024427	8	8024427	18.53484	1.65E-08	0.06943
Color	Gm08_8031011	8	8031011	21.7253	8.49E-10	0.08257
Color	Gm08_8031035	8	8031035	16.8677	7.86E-08	0.06367
Color	Gm08_8031044	8	8031044	18.6822	1.42E-08	0.0681
Color	Gm08_8031052	8	8031052	18.80468	1.27E-08	0.06845
Color	Gm08_8031082	8	8031082	34.40675	8.39E-15	0.13465
Color	Gm08_8042287	8	8042287	24.73542	5.22E-11	0.08813
Color	Gm08_8047879	8	8047879	23.33176	1.91E-10	0.081
Color	Gm08_8047994	8	8047994	22.81942	2.96E-10	0.07578
Color	Gm08_8048235	8	8048235	18.35521	1.93E-08	0.07194
Color	Gm08_8052282	8	8052282	29.59092	6.32E-13	0.10689
Color	Gm08_8052324	8	8052324	20.12961	3.69E-09	0.07257
Color	Gm08_8052330	8	8052330	18.90283	1.15E-08	0.06913
Color	Gm08_8052705	8	8052705	18.41358	1.82E-08	0.06915
Color	Gm08_8052717	8	8052717	18.48921	1.69E-08	0.06737
Color	Gm08_8053376	8	8053376	86.09498	3.99E-19	0.16528
Color	Gm08_8053477	8	8053477	39.15941	1.22E-16	0.13588
Color	Gm08_8055772	8	8055772	40.28818	4.92E-17	0.14031
Color	Gm08_8056510	8	8056510	31.05145	1.64E-13	0.11183
Color	Gm08_8058494	8	8058494	17.25032	5.39E-08	0.05733
Color	Gm08_8058590	8	8058590	24.97728	4.01E-11	0.0818
Color	Gm08_8059083	8	8059083	25.52084	2.47E-11	0.08179
Color	Gm08_8059184	8	8059184	31.25326	1.43E-13	0.11146
Color	Gm08_8059298	8	8059298	16.99797	6.81E-08	0.0601
Color	Gm08_8062435	8	8062435	30.37696	3.13E-13	0.10424
Color	Gm08_8065674	8	8065674	34.69191	6.10E-15	0.12555
Color	Gm08_8066335	8	8066335	36.03894	1.85E-15	0.1219
Color	Gm08_8066589	8	8066589	34.42437	8.37E-15	0.11941
Color	Gm08_8067540	8	8067540	20.58795	2.34E-09	0.07366
Color	Gm08_8069365	8	8069365	29.68935	5.66E-13	0.10035
Color	Gm08_8069606	8	8069606	17.4913	4.32E-08	0.06123
Color	Gm08_8081879	8	8081879	29.96284	4.35E-13	0.10586
Color	Gm08_8083031	8	8083031	26.82047	7.67E-12	0.0956

Color	Gm08_8088815	8	8088815	16.94067	7.39E-08	0.07109
Color	Gm08_8092329	8	8092329	38.38971	2.49E-16	0.13172
Color	Gm08_8095794	8	8095794	33.94386	1.26E-14	0.12343
Color	Gm08_8096014	8	8096014	25.3592	2.92E-11	0.08699
Color	Gm08_8099353	8	8099353	30.61266	2.38E-13	0.1111
Color	Gm08_8100194	8	8100194	24.85454	4.84E-11	0.08983
Color	Gm08_8101680	8	8101680	22.86261	2.91E-10	0.08357
Color	Gm08_8110318	8	8110318	26.93856	6.89E-12	0.09331
Color	Gm08_8138303	8	8138303	16.88902	7.71E-08	0.06641
Color	Gm08_8139626	8	8139626	17.05644	6.49E-08	0.05998
Color	Gm08_8157061	8	8157061	41.54395	1.61E-17	0.14419
Color	Gm08_8172987	8	8172987	28.5488	1.66E-12	0.09913
Color	Gm08_8176120	8	8176120	30.99862	1.76E-13	0.10813
Color	Gm08_8188522	8	8188522	25.89036	1.78E-11	0.09669
Color	Gm08_8188523	8	8188523	25.21163	3.35E-11	0.09488
Color	Gm08_8190124	8	8190124	25.58123	2.38E-11	0.09398
Color	Gm08_8190497	8	8190497	24.60948	5.84E-11	0.08987
Color	Gm08_8190546	8	8190546	31.12504	1.55E-13	0.11687
Color	Gm08_8191127	8	8191127	51.67774	2.28E-21	0.16796
Color	Gm08_8191455	8	8191455	24.65514	5.66E-11	0.08913
Color	Gm08_8191743	8	8191743	24.6275	5.66E-11	0.08946
Color	Gm08_8192436	8	8192436	22.09091	6.07E-10	0.08175
Color	Gm08_8193398	8	8193398	21.71876	8.27E-10	0.07802
Color	Gm08_8193403	8	8193403	22.3148	4.83E-10	0.08057
Color	Gm08_8193696	8	8193696	25.644	2.16E-11	0.09269
Color	Gm08_8194523	8	8194523	21.6473	8.95E-10	0.07886
Color	Gm08_8195742	8	8195742	51.89529	2.34E-21	0.17974
Color	Gm08_8196111	8	8196111	25.46615	2.63E-11	0.08514
Color	Gm08_8196565	8	8196565	24.17515	8.30E-11	0.08065
Color	Gm08_8196909	8	8196909	28.63995	1.51E-12	0.1023
Color	Gm08_8197293	8	8197293	47.56335	9.42E-20	0.16631
Color	Gm08_8197709	8	8197709	26.74759	7.83E-12	0.09396
Color	Gm08_8198228	8	8198228	26.18985	1.37E-11	0.09747
Color	Gm08_8198246	8	8198246	27.13811	5.79E-12	0.10017
Color	Gm08_8199605	8	8199605	25.87403	1.77E-11	0.09025
Color	Gm08_8199626	8	8199626	49.71181	1.31E-20	0.16716
Color	Gm08_8199882	8	8199882	56.22482	5.42E-23	0.19054
Color	Gm08_8200063	8	8200063	28.76853	1.25E-12	0.10237
Color	Gm08_8200230	8	8200230	50.02112	9.61E-21	0.17024
Color	Gm08_8200825	8	8200825	52.12935	1.42E-21	0.18529
Color	Gm08_8201008	8	8201008	43.30743	3.30E-18	0.15319
Color	Gm08_8201272	8	8201272	28.15941	2.07E-12	0.09505
Color	Gm08_8201476	8	8201476	55.69288	7.61E-23	0.18569
Color	Gm08_8201501	8	8201501	54.31306	2.59E-22	0.18144
Color	Gm08_8201849	8	8201849	51.75566	2.08E-21	0.18786
Color	Gm08_8202357	8	8202357	38.01681	3.07E-16	0.13043

Color	Gm08_8202427	8	8202427	31.16759	1.39E-13	0.10605
Color	Gm08_8202907	8	8202907	24.05705	9.53E-11	0.08232
Color	Gm08_8203074	8	8203074	47.96639	5.78E-20	0.16431
Color	Gm08_8203593	8	8203593	18.19921	2.19E-08	0.06233
Color	Gm08_8204027	8	8204027	27.9313	2.88E-12	0.1077
Color	Gm08_8204715	8	8204715	24.17868	8.26E-11	0.0845
Color	Gm08_8204961	8	8204961	50.41571	8.03E-21	0.17864
Color	Gm08_8205513	8	8205513	26.97961	6.69E-12	0.0937
Color	Gm08_8205579	8	8205579	27.24725	5.05E-12	0.09395
Color	Gm08_8205602	8	8205602	24.97874	4.13E-11	0.08758
Color	Gm08_8205748	8	8205748	27.19453	5.49E-12	0.09171
Color	Gm08_8209460	8	8209460	29.60993	6.02E-13	0.1002
Color	Gm08_8210287	8	8210287	19.95633	4.28E-09	0.07462
Color	Gm08_8210825	8	8210825	20.21191	3.31E-09	0.07146
Color	Gm08_8214801	8	8214801	24.67246	5.52E-11	0.08902
Color	Gm08_8216666	8	8216666	44.65386	1.08E-18	0.16779
Color	Gm08_8217631	8	8217631	18.7954	1.23E-08	0.06142
Color	Gm08_8230569	8	8230569	21.84968	7.17E-10	0.07061
Color	Gm08_8232667	8	8232667	21.36645	1.14E-09	0.07173
Color	Gm08_8232993	8	8232993	29.15036	8.40E-13	0.09449
Color	Gm08_8233645	8	8233645	33.1239	2.49E-14	0.11054
Color	Gm08_8236097	8	8236097	25.63638	2.33E-11	0.10096
Color	Gm08_8236244	8	8236244	22.68453	3.30E-10	0.07858
Color	Gm08_8236763	8	8236763	27.46125	4.03E-12	0.09215
Color	Gm08_8236862	8	8236862	25.38555	2.74E-11	0.08758
Color	Gm08_8236894	8	8236894	26.45321	1.06E-11	0.09333
Color	Gm08_8237654	8	8237654	34.38869	7.94E-15	0.12045
Color	Gm08_8238668	8	8238668	22.16773	5.45E-10	0.07418
Color	Gm08_8238813	8	8238813	26.21876	1.37E-11	0.0994
Color	Gm08_8241224	8	8241224	47.31797	1.11E-19	0.18318
Color	Gm08_8241247	8	8241247	22.24547	5.23E-10	0.08869
Color	Gm08_8242850	8	8242850	52.17631	1.80E-21	0.17979
Color	Gm08_8243491	8	8243491	46.23031	2.90E-19	0.17538
Color	Gm08_8244136	8	8244136	57.45387	1.76E-23	0.19624
Color	Gm08_8245354	8	8245354	21.53076	9.88E-10	0.07649
Color	Gm08_8245529	8	8245529	55.87553	6.53E-23	0.18981
Color	Gm08_8259822	8	8259822	52.40161	1.15E-21	0.17434
Color	Gm08_8267574	8	8267574	46.96722	1.52E-19	0.16923
Color	Gm08_8267782	8	8267782	17.7311	3.46E-08	0.06651
Color	Gm08_8267935	8	8267935	20.18698	3.46E-09	0.07376
Color	Gm08_8270790	8	8270790	25.51585	2.55E-11	0.09036
Color	Gm08_8270797	8	8270797	26.36131	1.19E-11	0.09412
Color	Gm08_8285621	8	8285621	24.40295	7.12E-11	0.08608
Color	Gm08_8285888	8	8285888	49.28255	1.94E-20	0.17553
Color	Gm08_8288351	8	8288351	22.48824	3.99E-10	0.07669
Color	Gm08_8303757	8	8303757	19.96529	4.22E-09	0.06684

Color	Gm08_8303996	8	8303996	24.27489	8.02E-11	0.08962
Color	Gm08_8306163	8	8306163	57.55789	2.12E-23	0.21904
Color	Gm08_8306458	8	8306458	32.41518	4.72E-14	0.11014
Color	Gm08_8311989	8	8311989	52.79364	9.75E-22	0.18726
Color	Gm08_8312343	8	8312343	44.92883	7.41E-19	0.15556
Color	Gm08_8313215	8	8313215	51.34308	2.90E-21	0.17337
Color	Gm08_8313241	8	8313241	50.13526	9.28E-21	0.1733
Color	Gm08_8313428	8	8313428	40.58087	3.83E-17	0.14501
Color	Gm08_8313640	8	8313640	39.70433	7.89E-17	0.13761
Color	Gm08_8314161	8	8314161	24.8185	4.60E-11	0.08358
Color	Gm08_8314707	8	8314707	42.05286	1.01E-17	0.16007
Color	Gm08_8314788	8	8314788	44.93238	7.66E-19	0.1695
Color	Gm08_8314827	8	8314827	47.60852	7.41E-20	0.16458
Color	Gm08_8314987	8	8314987	48.34184	4.54E-20	0.1656
Color	Gm08_8316860	8	8316860	49.164	2.29E-20	0.17068
Color	Gm08_8317597	8	8317597	22.64625	3.46E-10	0.07462
Color	Gm08_8318754	8	8318754	22.15932	5.63E-10	0.07761
Color	Gm08_8318759	8	8318759	36.01106	2.12E-15	0.12767
Color	Gm08_8318837	8	8318837	57.89375	1.58E-23	0.2077
Color	Gm08_8319060	8	8319060	49.13673	2.48E-20	0.17957
Color	Gm08_8319085	8	8319085	51.65657	2.78E-21	0.18743
Color	Gm08_8319087	8	8319087	49.68461	1.55E-20	0.18503
Color	Gm08_8319115	8	8319115	48.10533	5.55E-20	0.16657
Color	Gm08_8319732	8	8319732	40.05852	5.84E-17	0.14313
Color	Gm08_8319744	8	8319744	42.53358	6.67E-18	0.14986
Color	Gm08_8319787	8	8319787	43.12231	3.97E-18	0.15979
Color	Gm08_8319795	8	8319795	43.58896	2.52E-18	0.15834
Color	Gm08_8319817	8	8319817	41.99846	1.07E-17	0.14854
Color	Gm08_8319867	8	8319867	41.62275	1.51E-17	0.15433
Color	Gm08_8322185	8	8322185	47.15228	1.30E-19	0.17373
Color	Gm08_8322357	8	8322357	44.83818	8.57E-19	0.14759
Color	Gm08_8323966	8	8323966	26.89572	6.90E-12	0.09585
Color	Gm08_8323971	8	8323971	48.64401	3.28E-20	0.17443
Color	Gm08_8323983	8	8323983	47.24951	1.09E-19	0.16995
Color	Gm08_8324392	8	8324392	47.44847	8.14E-20	0.16016
Color	Gm08_8328261	8	8328261	63.78782	1.11E-25	0.22161
Color	Gm08_8328392	8	8328392	17.01836	6.73E-08	0.06085
Color	Gm08_8328540	8	8328540	16.71216	9.06E-08	0.05675
Color	Gm08_8329538	8	8329538	23.13917	2.24E-10	0.08206
Color	Gm08_8354601	8	8354601	28.81485	1.25E-12	0.10156
Color	Gm08_8359499	8	8359499	21.07895	1.42E-09	0.06852
Color	Gm08_8360663	8	8360663	32.74169	3.34E-14	0.11466
Color	Gm08_8364457	8	8364457	27.57448	3.60E-12	0.09416
Color	Gm08_8368519	8	8368519	29.86054	4.70E-13	0.0988
Color	Gm08_8368552	8	8368552	37.6457	4.32E-16	0.13028
Color	Gm08_8371230	8	8371230	56.7908	3.33E-23	0.19133

Color	Gm08_8373581	8	8373581	70.90486	2.14E-28	0.23869
Color	Gm08_8374519	8	8374519	69.10605	1.63E-27	0.24286
Color	Gm08_8374643	8	8374643	57.63321	1.99E-23	0.2084
Color	Gm08_8374655	8	8374655	42.8059	5.25E-18	0.14928
Color	Gm08_8374738	8	8374738	46.26403	2.80E-19	0.17863
Color	Gm08_8374743	8	8374743	19.97835	4.24E-09	0.07407
Color	Gm08_8375080	8	8375080	31.91361	7.37E-14	0.10921
Color	Gm08_8375124	8	8375124	34.63977	6.68E-15	0.12669
Color	Gm08_8375522	8	8375522	32.62486	3.88E-14	0.11675
Color	Gm08_8375603	8	8375603	39.38277	9.61E-17	0.13286
Color	Gm08_8375666	8	8375666	46.09567	2.34E-19	0.15259
Color	Gm08_8375961	8	8375961	27.39067	4.22E-12	0.08814
Color	Gm08_8376085	8	8376085	54.37924	2.48E-22	0.17675
Color	Gm08_8377404	8	8377404	35.07321	4.44E-15	0.1249
Color	Gm08_8377783	8	8377783	58.08902	1.33E-23	0.20821
Color	Gm08_8378225	8	8378225	38.71231	1.99E-16	0.15598
Color	Gm08_8379915	8	8379915	38.7616	1.62E-16	0.12626
Color	Gm08_8380062	8	8380062	39.47459	7.61E-17	0.12448
Color	Gm08_8380544	8	8380544	28.93944	1.00E-12	0.09421
Color	Gm08_8380771	8	8380771	25.58494	2.22E-11	0.09182
Color	Gm08_8380778	8	8380778	26.71098	7.91E-12	0.09366
Color	Gm08_8380797	8	8380797	28.86402	1.11E-12	0.09889
Color	Gm08_8380961	8	8380961	31.51253	1.01E-13	0.10872
Color	Gm08_8380988	8	8380988	28.24572	1.98E-12	0.09751
Color	Gm08_8381058	8	8381058	61.86504	4.28E-25	0.2123
Color	Gm08_8381111	8	8381111	31.69732	8.30E-14	0.10833
Color	Gm08_8381483	8	8381483	31.73476	7.76E-14	0.10359
Color	Gm08_8381494	8	8381494	32.28222	4.69E-14	0.102
Color	Gm08_8381764	8	8381764	59.25214	3.24E-24	0.19326
Color	Gm08_8390797	8	8390797	85.99613	7.81E-34	0.24676
Color	Gm08_8391476	8	8391476	18.61375	1.39E-08	0.05542
Color	Gm08_8391589	8	8391589	21.93019	6.18E-10	0.06896
Color	Gm08_8391636	8	8391636	30.33319	2.87E-13	0.09605
Color	Gm08_8391703	8	8391703	24.77078	4.27E-11	0.0752
Color	Gm08_8392065	8	8392065	17.35205	4.50E-08	0.05066
Color	Gm08_8392089	8	8392089	17.15739	5.40E-08	0.04917
Color	Gm08_8392458	8	8392458	17.29609	4.74E-08	0.05158
Color	Gm08_8392883	8	8392883	18.78047	1.18E-08	0.05605
Color	Gm08_8393576	8	8393576	62.14414	2.35E-25	0.19385
Color	Gm08_8393771	8	8393771	22.48421	3.99E-10	0.07486
Color	Gm08_8393781	8	8393781	21.26451	1.28E-09	0.07586
Color	Gm08_8394915	8	8394915	70.14033	4.06E-28	0.23411
Color	Gm08_8398559	8	8398559	73.10959	4.12E-29	0.24976
Color	Gm08_8399515	8	8399515	70.59704	2.56E-28	0.23321
Color	Gm08_8400595	8	8400595	71.89674	1.00E-28	0.23685
Color	Gm08_8402470	8	8402470	36.227	3.15E-09	0.06606

Color	Gm08_8402471	8	8402471	37.00394	2.18E-09	0.06727
Color	Gm08_8420033	8	8420033	71.78255	1.61E-28	0.27458
Color	Gm08_8435735	8	8435735	16.68761	9.12E-08	0.05886
Color	Gm08_8438870	8	8438870	66.22626	1.83E-26	0.23465
Color	Gm08_8438876	8	8438876	36.18738	1.79E-15	0.12598
Color	Gm08_8438936	8	8438936	38.25023	2.82E-16	0.12868
Color	Gm08_8439073	8	8439073	69.9088	9.89E-28	0.25128
Color	Gm08_8457731	8	8457731	30.84236	1.98E-13	0.10095
Color	Gm08_8458705	8	8458705	17.04194	6.79E-08	0.06571
Color	Gm08_8473145	8	8473145	17.68125	3.53E-08	0.05801
Color	Gm08_8473227	8	8473227	59.79943	3.14E-24	0.20643
Color	Gm08_8473662	8	8473662	19.69654	5.49E-09	0.07147
Color	Gm08_8509645	8	8509645	19.22784	8.36E-09	0.07106
Color	Gm08_8513329	8	8513329	50.62754	5.14E-21	0.16755
Color	Gm08_8513330	8	8513330	51.93214	1.71E-21	0.17277
Color	Gm08_8513350	8	8513350	41.67525	1.08E-17	0.13498
Color	Gm08_8513390	8	8513390	57.14735	1.51E-23	0.18012
Color	Gm08_8513442	8	8513442	55.60432	4.45E-23	0.16789
Color	Gm08_8526593	8	8526593	45.87922	3.50E-19	0.16236
Color	Gm08_8530246	8	8530246	24.40495	6.94E-11	0.0872
Color	Gm08_8530715	8	8530715	36.20467	1.53E-15	0.12092
Color	Gm08_8530811	8	8530811	16.67054	9.25E-08	0.05539
Color	Gm08_8530878	8	8530878	54.64312	2.03E-22	0.18093
Color	Gm08_8531722	8	8531722	19.4059	7.16E-09	0.07298
Color	Gm08_8531901	8	8531901	29.47386	6.50E-13	0.10451
Color	Gm08_8531923	8	8531923	26.59236	9.18E-12	0.09488
Color	Gm08_8532182	8	8532182	22.09803	5.91E-10	0.07841
Color	Gm08_8532274	8	8532274	33.29304	2.33E-14	0.12401
Color	Gm08_8535064	8	8535064	30.95111	1.68E-13	0.10348
Color	Gm08_8535241	8	8535241	22.56269	3.73E-10	0.0796
Color	Gm08_8535483	8	8535483	21.91493	6.76E-10	0.07473
Color	Gm08_8535484	8	8535484	20.00698	4.01E-09	0.06848
Color	Gm08_8536695	8	8536695	18.83513	1.22E-08	0.06603
Color	Gm08_8537176	8	8537176	19.79679	5.10E-09	0.07094
Color	Gm08_8538286	8	8538286	39.91797	6.58E-17	0.15274
Color	Gm08_8539128	8	8539128	50.97451	4.59E-21	0.18529
Color	Gm08_8539700	8	8539700	22.39836	4.46E-10	0.08499
Color	Gm08_8540424	8	8540424	18.33248	1.95E-08	0.05944
Color	Gm08_8541531	8	8541531	16.98318	7.03E-08	0.06607
Color	Gm08_8541663	8	8541663	17.332	4.95E-08	0.06124
Color	Gm08_8541967	8	8541967	23.70491	1.32E-10	0.08374
Color	Gm08_8542721	8	8542721	18.72319	1.38E-08	0.06824
Color	Gm08_8542910	8	8542910	18.32789	1.96E-08	0.06582
Color	Gm08_8543674	8	8543674	18.03394	2.61E-08	0.06489
Color	Gm08_8543708	8	8543708	20.31483	3.13E-09	0.07122
Color	Gm08_8543723	8	8543723	17.75075	3.40E-08	0.06138

Color	Gm08_8544931	8	8544931	37.04914	8.67E-16	0.14576
Color	Gm08_8550815	8	8550815	22.95673	2.64E-10	0.08132
Color	Gm08_8551462	8	8551462	20.07866	3.83E-09	0.0772
Color	Gm08_8552680	8	8552680	18.51478	1.66E-08	0.06106
Color	Gm08_8557526	8	8557526	16.74658	8.75E-08	0.05847
Color	Gm08_8562604	8	8562604	57.79791	1.63E-23	0.2063
Color	Gm08_8564702	8	8564702	42.76358	5.39E-18	0.15188
Color	Gm08_8567208	8	8567208	59.53114	3.49E-24	0.19306
Color	Gm08_8568732	8	8568732	17.55239	4.01E-08	0.0598
Color	Gm08_8573698	8	8573698	40.23558	4.73E-17	0.13826
Color	Gm08_8582311	8	8582311	58.11127	1.27E-23	0.20414
Color	Gm08_8593015	8	8593015	34.27021	8.96E-15	0.11563
Color	Gm08_8596080	8	8596080	53.84055	4.26E-22	0.19122
Color	Gm08_8598614	8	8598614	42.57406	6.11E-18	0.15531
Color	Gm08_8599062	8	8599062	36.14681	1.78E-15	0.14323
Color	Gm08_8599749	8	8599749	31.61344	9.87E-14	0.11144
Color	Gm08_8600110	8	8600110	28.33161	1.88E-12	0.10229
Color	Gm08_8600112	8	8600112	29.16585	8.82E-13	0.105
Color	Gm08_8600577	8	8600577	30.83738	2.01E-13	0.11087
Color	Gm08_8600731	8	8600731	30.68654	2.30E-13	0.10894
Color	Gm08_8606073	8	8606073	31.00124	1.81E-13	0.10861
Color	Gm08_8611170	8	8611170	42.10562	9.49E-18	0.15837
Color	Gm08_8618655	8	8618655	26.6835	8.41E-12	0.09818
Color	Gm08_8625732	8	8625732	27.4066	4.52E-12	0.10088
Color	Gm08_8642278	8	8642278	19.54148	6.42E-09	0.07327
Color	Gm08_8661207	8	8661207	41.56728	1.70E-17	0.1604
Color	Gm08_8661940	8	8661940	46.51103	2.25E-19	0.1723
Color	Gm08_8661946	8	8661946	45.62721	4.83E-19	0.17105
Color	Gm08_8665831	8	8665831	20.51372	2.55E-09	0.07024
Color	Gm08_8669224	8	8669224	27.88996	2.88E-12	0.09086
Color	Gm08_8670168	8	8670168	21.60397	8.94E-10	0.07138
Color	Gm08_8672494	8	8672494	31.7846	9.10E-14	0.12008
Color	Gm08_8675132	8	8675132	32.63893	4.35E-14	0.11955
Color	Gm08_8679805	8	8679805	27.1991	5.54E-12	0.1076
Color	Gm08_8714742	8	8714742	19.89079	4.53E-09	0.06992
Color	Gm08_8719983	8	8719983	21.78596	7.90E-10	0.07853
Color	Gm08_8724028	8	8724028	18.48818	1.71E-08	0.06674
Color	Gm08_8730779	8	8730779	24.43095	6.73E-11	0.08895
Color	Gm08_8733115	8	8733115	16.68433	9.33E-08	0.06066
Color	Gm08_8733296	8	8733296	17.68984	3.57E-08	0.06421
Color	Gm08_8733318	8	8733318	22.6939	3.36E-10	0.08149
Color	Gm08_8733852	8	8733852	19.74477	5.24E-09	0.07256
Color	Gm08_8734345	8	8734345	25.60541	2.33E-11	0.09314
Color	Gm08_8741243	8	8741243	21.85247	7.54E-10	0.0758
Color	Gm08_8741992	8	8741992	25.92654	1.74E-11	0.09842
Color	Gm08_8742890	8	8742890	27.0524	6.29E-12	0.09385

Color	Gm08_8744275	8	8744275	23.88134	1.09E-10	0.07611
Color	Gm08_8748456	8	8748456	17.0541	6.50E-08	0.0613
Color	Gm08_8748463	8	8748463	17.09133	6.32E-08	0.06109
Color	Gm08_8752677	8	8752677	20.20106	3.37E-09	0.06648
Color	Gm08_8752816	8	8752816	28.34009	2.01E-12	0.10416
Color	Gm08_8753400	8	8753400	24.09569	9.42E-11	0.08348
Color	Gm08_8753446	8	8753446	21.33919	1.20E-09	0.07823
Color	Gm08_8753556	8	8753556	30.23911	3.30E-13	0.10085
Color	Gm08_8753670	8	8753670	25.19807	3.21E-11	0.08294
Color	Gm08_8754364	8	8754364	25.63515	2.26E-11	0.08937
Color	Gm08_8754420	8	8754420	28.24471	2.11E-12	0.10016
Color	Gm08_8754534	8	8754534	26.94312	6.64E-12	0.09738
Color	Gm08_8756149	8	8756149	23.38856	1.76E-10	0.0827
Color	Gm08_8756368	8	8756368	37.99604	3.08E-16	0.12439
Color	Gm08_8757269	8	8757269	22.78403	3.03E-10	0.07413
Color	Gm08_8758861	8	8758861	22.7362	3.29E-10	0.08096
Color	Gm08_8759543	8	8759543	24.64928	5.44E-11	0.08743
Color	Gm08_8763923	8	8763923	16.67749	9.40E-08	0.05996
Color	Gm08_8764778	8	8764778	21.67375	8.57E-10	0.07317
Color	Gm08_8769254	8	8769254	26.14102	1.40E-11	0.0882
Color	Gm08_8797990	8	8797990	20.4274	2.75E-09	0.0777
Color	Gm08_8800773	8	8800773	16.96823	6.95E-08	0.05499
Color	Gm08_8803261	8	8803261	25.93402	1.67E-11	0.0911
Color	Gm08_8804658	8	8804658	26.68908	8.94E-12	0.09597
Color	Gm08_8810936	8	8810936	25.4566	2.70E-11	0.08925
Color	Gm08_8811880	8	8811880	16.64527	9.75E-08	0.05819
Color	Gm08_8951069	8	8951069	21.39758	1.12E-09	0.07834
Color	Gm08_8951476	8	8951476	19.72487	5.25E-09	0.07107
Color	Gm08_8951494	8	8951494	22.20276	5.19E-10	0.0755
Color	Gm08_8951547	8	8951547	26.199	1.32E-11	0.08429
Color	Gm08_8951607	8	8951607	21.45882	1.01E-09	0.07075
Color	Gm08_8994913	8	8994913	25.55573	2.29E-11	0.08073
Color	Gm08_9003171	8	9003171	26.83631	7.56E-12	0.09737
Color	Gm08_9003202	8	9003202	17.14753	5.95E-08	0.06268
Color	Gm08_9003203	8	9003203	16.84832	7.88E-08	0.06169
Color	Gm08_9003237	8	9003237	27.36356	4.81E-12	0.10558
Color	Gm08_9004627	8	9004627	23.40266	1.80E-10	0.08605
Color	Gm08_9005247	8	9005247	24.6171	5.99E-11	0.09948
Color	Gm08_9005430	8	9005430	24.8547	4.58E-11	0.09156
Color	Gm08_9005432	8	9005432	23.99155	1.02E-10	0.08915
Color	Gm08_9041378	8	9041378	29.98966	4.38E-13	0.10902
Color	Gm08_9049801	8	9049801	26.71645	8.36E-12	0.09399
Color	Gm08_9054741	8	9054741	28.68402	1.37E-12	0.10152
Color	Gm08_9054872	8	9054872	32.24829	5.57E-14	0.11437
Color	Gm08_9056324	8	9056324	25.15762	3.49E-11	0.09135
Color	Gm08_9063387	8	9063387	18.49648	1.68E-08	0.06577

Color	Gm08_9071236	8	9071236	26.65675	9.40E-12	0.0959
Color	Gm08_9071263	8	9071263	34.64937	7.34E-15	0.12484
Color	Gm08_9073910	8	9073910	17.7116	3.48E-08	0.06553
Color	Gm08_9077545	8	9077545	24.47983	6.40E-11	0.0844
Color	Gm08_9094556	8	9094556	17.18519	5.80E-08	0.06368
Color	Gm08_9137691	8	9137691	16.66571	9.49E-08	0.0561
Color	Gm08_9148564	8	9148564	20.68411	2.19E-09	0.07081
Color	Gm08_9437601	8	9437601	18.00491	2.69E-08	0.0695
Color	Gm08_9600568	8	9600568	17.29184	5.15E-08	0.06139
Color	Gm08_9957884	8	9957884	17.4561	4.49E-08	0.06069
Color	Gm08_9957906	8	9957906	16.89755	7.56E-08	0.05929
Color	Gm08_28600277	8	28600277	21.82528	7.21E-10	0.07051
Color	Gm08_39594454	8	39594454	18.23501	2.13E-08	0.06331
Color	Gm08_46691031	8	46691031	22.89436	2.86E-10	0.08093
Color	Gm09_26889185	9	26889185	19.13628	8.78E-09	0.06233
Color	Gm09_26908457	9	26908457	17.42127	4.57E-08	0.05824
Color	Gm10_1177076	10	1177076	17.97533	2.71E-08	0.06454
Color	Gm10_27122059	10	27122059	16.63407	9.53E-08	0.05725
Color	Gm10_42189909	10	42189909	18.60334	1.49E-08	0.06396
Color	Gm10_44386783	10	44386783	27.75701	3.33E-12	0.09893
Color	Gm11_22802770	11	22802770	17.15293	5.80E-08	0.05429
Color	Gm12_38109071	12	38109071	19.57884	6.01E-09	0.06744
Color	Gm13_16474550	13	16474550	30.29658	5.56E-08	0.05045
Color	Gm13_16501229	13	16501229	29.30426	9.28E-08	0.05355
Color	Gm13_19008790	13	19008790	18.42472	1.78E-08	0.06455
Color	Gm13_19035079	13	19035079	18.47639	1.67E-08	0.06326
Color	Gm14_33013819	14	33013819	18.12346	2.36E-08	0.06619
Color	Gm14_42523345	14	42523345	19.16201	9.02E-09	0.06631
Color	Gm15_5947870	15	5947870	19.33103	7.83E-09	0.06894
Color	Gm15_37917080	15	37917080	17.93256	2.79E-08	0.06114
Color	Gm15_37917081	15	37917081	17.58533	3.87E-08	0.06047
Color	Gm16_11173107	16	11173107	20.66615	2.22E-09	0.07068
Color	Gm16_11173108	16	11173108	20.69862	2.14E-09	0.07035
Color	Gm17_1751037	17	1751037	17.48057	4.35E-08	0.0629
Color	Gm17_17286531	17	17286531	17.85201	2.99E-08	0.06081
Color	Gm18_39804544	18	39804544	19.88653	4.43E-09	0.06463
Color	Gm18_39804665	18	39804665	16.58303	9.87E-08	0.05351
Color	Gm18_44559005	18	44559005	25.4167	2.65E-11	0.08394
Color	Gm20_7071084	20	7071084	17.97955	2.63E-08	0.05546
Color	Gm20_25710209	20	25710209	19.6597	5.31E-09	0.06188
Color	Gm20_26454828	20	26454828	22.2224	5.06E-10	0.07526
Color	Gm20_27354521	20	27354521	18.56113	1.52E-08	0.05961
Color	Gm20_27354528	20	27354528	17.9959	2.63E-08	0.06138

Stable 6. The differentially expressed genes during color accumulation in the seed coat.

gene_id	regulate	Trait
Glyma.04G165800	Up	Purple
Glyma.04G167200	Up	Purple
Glyma.04G167300	Up	Purple
Glyma.04G167800	Up	Purple
Glyma.04G167900	Up	Brown
Glyma.04G167900	Up	Purple
Glyma.04G167900	Up	Yellow
Glyma.04G170100	Up	Purple
Glyma.04G170500	Up	Black
Glyma.04G170500	Up	Purple
Glyma.04G171300	Up	Brown
Glyma.04G173000	Up	Purple
Glyma.04G173100	Up	Brown
Glyma.04G173100	Up	Purple
Glyma.04G173100	Up	Yellow
Glyma.04G175100	Up	Brown
Glyma.04G175800	Up	Purple
Glyma.04G176900	Up	Yellow
Glyma.04G177100	Up	Purple
Glyma.04G177600	Up	Brown
Glyma.04G177600	Up	Purple
Glyma.04G177600	Up	Yellow
Glyma.04G179500	Up	Brown
Glyma.04G179500	Up	Yellow
Glyma.04G180900	Up	Brown
Glyma.06G175100	Up	Black
Glyma.06G175100	Up	Brown
Glyma.06G175200	Up	Black
Glyma.06G175200	Up	Brown

Glyma.06G175200	Up	Yellow
Glyma.06G175500	Up	Brown
Glyma.06G175500	Up	Purple
Glyma.06G179200	Up	Purple
Glyma.06G179800	Up	Purple
Glyma.06G179800	Up	Yellow
Glyma.06G180300	Up	Purple
Glyma.06G182200	Up	Black
Glyma.06G182200	Up	Brown
Glyma.06G182200	Up	Purple
Glyma.06G182200	Up	Yellow
Glyma.06G183000	Up	Purple
Glyma.06G184300	Up	Brown
Glyma.06G185900	Up	Yellow
Glyma.06G186400	Up	Purple
Glyma.06G187100	Up	Black
Glyma.06G187100	Up	Brown
Glyma.06G187100	Up	Purple
Glyma.06G187100	Up	Yellow
Glyma.06G187200	Up	Purple
Glyma.06G187500	Up	Brown
Glyma.06G187500	Up	Purple
Glyma.06G187500	Up	Yellow
Glyma.06G190200	Up	Purple
Glyma.06G190200	Up	Yellow
Glyma.06G190600	Up	Brown
Glyma.06G190600	Up	Purple
Glyma.06G190600	Up	Yellow
Glyma.06G191500	Up	Purple
Glyma.06G194900	Up	Brown
Glyma.06G194900	Up	Purple

Glyma.06G194900	Up	Yellow
Glyma.06G195500	Up	Brown
Glyma.06G195500	Up	Purple
Glyma.06G195500	Up	Yellow
Glyma.06G195600	Up	Purple
Glyma.06G196700	Up	Yellow
Glyma.06G196800	Up	Yellow
Glyma.06G197600	Up	Brown
Glyma.06G202300	Up	Brown
Glyma.06G202300	Up	Purple
Glyma.06G202300	Up	Yellow
Glyma.06G202600	Up	Brown
Glyma.06G202800	Up	Brown
Glyma.06G204200	Up	Yellow
Glyma.06G205400	Up	Black
Glyma.06G205400	Up	Purple
Glyma.06G205400	Up	Yellow
Glyma.06G206600	Up	Purple
Glyma.06G208000	Up	Black
Glyma.06G209600	Up	Yellow
Glyma.06G209900	Up	Brown
Glyma.06G209900	Up	Yellow
Glyma.06G210200	Up	Black
Glyma.06G210200	Up	Brown
Glyma.06G210200	Up	Yellow
Glyma.07G001300	Up	Brown
Glyma.07G001300	Up	Purple
Glyma.07G001300	Up	Yellow
Glyma.07G001500	Up	Brown
Glyma.07G001500	Up	Purple
Glyma.07G002000	Up	Brown

Glyma.07G002000	Up	Purple
Glyma.07G002000	Up	Yellow
Glyma.07G003400	Up	Yellow
Glyma.07G003800	Up	Purple
Glyma.07G003800	Up	Yellow
Glyma.07G006000	Up	Brown
Glyma.07G006000	Up	Yellow
Glyma.07G006500	Up	Purple
Glyma.07G006900	Up	Brown
Glyma.07G006900	Up	Purple
Glyma.07G006900	Up	Yellow
Glyma.07G007000	Up	Brown
Glyma.07G009700	Up	Black
Glyma.07G009700	Up	Brown
Glyma.07G009700	Up	Purple
Glyma.07G009700	Up	Yellow
Glyma.07G009900	Up	Brown
Glyma.07G010900	Up	Black
Glyma.07G010900	Up	Purple
Glyma.07G010900	Up	Yellow
Glyma.07G013800	Up	Brown
Glyma.07G013800	Up	Purple
Glyma.07G013800	Up	Yellow
Glyma.07G013900	Up	Black
Glyma.07G013900	Up	Brown
Glyma.07G013900	Up	Purple
Glyma.07G013900	Up	Yellow
Glyma.07G014100	Up	Black
Glyma.07G014100	Up	Brown
Glyma.07G014100	Up	Purple
Glyma.07G014100	Up	Yellow

Glyma.07G015800	Up	Brown
Glyma.07G016800	Up	Yellow
Glyma.07G018000	Up	Black
Glyma.07G018000	Up	Brown
Glyma.07G018000	Up	Purple
Glyma.07G019100	Up	Black
Glyma.07G019100	Up	Brown
Glyma.07G019100	Up	Purple
Glyma.07G019100	Up	Yellow
Glyma.07G019700	Up	Brown
Glyma.07G019700	Up	Purple
Glyma.07G019700	Up	Yellow
Glyma.07G020400	Up	Purple
Glyma.07G020400	Up	Yellow
Glyma.07G020500	Up	Purple
Glyma.07G022000	Up	Yellow
Glyma.07G022300	Up	Yellow
Glyma.07G022400	Up	Yellow
Glyma.07G023000	Up	Brown
Glyma.07G023000	Up	Yellow
Glyma.07G024100	Up	Brown
Glyma.07G027200	Up	Brown
Glyma.07G027200	Up	Purple
Glyma.07G028700	Up	Black
Glyma.08G078300	Up	Yellow
Glyma.08G079100	Up	Brown
Glyma.08G080000	Up	Brown
Glyma.08G080500	Up	Black
Glyma.08G080500	Up	Brown
Glyma.08G080500	Up	Purple
Glyma.08G080500	Up	Yellow

Glyma.08G082500	Up	Brown
Glyma.08G082500	Up	Purple
Glyma.08G082800	Up	Yellow
Glyma.08G082900	Up	Black
Glyma.08G082900	Up	Brown
Glyma.08G082900	Up	Purple
Glyma.08G082900	Up	Yellow
Glyma.08G085400	Up	Purple
Glyma.08G086600	Up	Purple
Glyma.08G086600	Up	Yellow
Glyma.08G088000	Up	Brown
Glyma.08G088000	Up	Purple
Glyma.08G088300	Up	Brown
Glyma.08G088300	Up	Purple
Glyma.08G088300	Up	Yellow
Glyma.08G089700	Up	Brown
Glyma.08G089700	Up	Purple
Glyma.08G089700	Up	Yellow
Glyma.08G091800	Up	Purple
Glyma.08G092000	Up	Purple
Glyma.08G092000	Up	Yellow
Glyma.08G092600	Up	Purple
Glyma.08G092800	Up	Black
Glyma.08G092800	Up	Brown
Glyma.08G095800	Up	Purple
Glyma.08G096500	Up	Brown
Glyma.08G096500	Up	Purple
Glyma.08G096500	Up	Yellow
Glyma.08G096600	Up	Yellow
Glyma.08G097900	Up	Yellow
Glyma.08G099600	Up	Purple

Glyma.08G099600	Up	Yellow
Glyma.08G099900	Up	Brown
Glyma.08G100800	Up	Brown
Glyma.08G100800	Up	Purple
Glyma.08G101500	Up	Brown
Glyma.08G101500	Up	Purple
Glyma.08G102900	Up	Purple
Glyma.08G103400	Up	Brown
Glyma.08G104100	Up	Brown
Glyma.08G104100	Up	Purple
Glyma.08G104600	Up	Brown
Glyma.08G105700	Up	Brown
Glyma.08G105700	Up	Purple
Glyma.08G106000	Up	Brown
Glyma.08G106000	Up	Purple
Glyma.08G106000	Up	Yellow
Glyma.08G106900	Up	Purple
Glyma.08G107100	Up	Brown
Glyma.08G107100	Up	Purple
Glyma.08G107300	Up	Brown
Glyma.08G107300	Up	Purple
Glyma.08G107300	Up	Yellow
Glyma.08G107700	Up	Yellow
Glyma.08G108000	Up	Brown
Glyma.08G108000	Up	Purple
Glyma.08G108000	Up	Yellow
Glyma.08G109100	Up	Brown
Glyma.08G109100	Up	Purple
Glyma.08G109200	Up	Black
Glyma.08G109200	Up	Brown
Glyma.08G109500	Up	Black

Glyma.08G109500	Up	Brown
Glyma.08G110400	Up	Brown
Glyma.08G110500	Up	Black
Glyma.08G110500	Up	Brown
Glyma.08G110700	Up	Black
Glyma.08G110700	Up	Brown
Glyma.08G111700	Up	Brown
Glyma.08G111700	Up	Purple
Glyma.08G111800	Up	Purple
Glyma.08G112100	Up	Black
Glyma.08G112100	Up	Purple
Glyma.08G113400	Up	Brown
Glyma.08G113400	Up	Purple
Glyma.08G113400	Up	Yellow
Glyma.08G116500	Up	Brown
Glyma.08G116500	Up	Purple
Glyma.08G116500	Up	Yellow
Glyma.08G116900	Up	Brown
Glyma.08G116900	Up	Purple
Glyma.08G116900	Up	Yellow
Glyma.08G117500	Up	Black
Glyma.08G117500	Up	Brown
Glyma.08G117500	Up	Purple
Glyma.08G117500	Up	Yellow
Glyma.08G118200	Up	Brown
Glyma.08G119500	Up	Black
Glyma.08G120000	Up	Yellow
Glyma.08G120700	Up	Black
Glyma.08G120700	Up	Brown
Glyma.08G120700	Up	Purple
Glyma.08G120700	Up	Yellow

Glyma.08G122200	Up	Purple
Glyma.08G122400	Up	Black
Glyma.08G122400	Up	Brown
Glyma.08G122400	Up	Purple
Glyma.08G123800	Up	Purple
Glyma.08G124900	Up	Purple
Glyma.08G125100	Up	Brown
Glyma.08G125100	Up	Purple
Glyma.08G125400	Up	Purple
Glyma.08G126800	Up	Black
Glyma.08G126800	Up	Brown
Glyma.08G126800	Up	Purple
Glyma.08G126800	Up	Yellow
Glyma.08G127600	Up	Purple
Glyma.08G127600	Up	Brown
Glyma.08G129000	Up	Black
Glyma.08G129000	Up	Purple
Glyma.08G129000	Up	Yellow
Glyma.08G130500	Up	Brown
Glyma.08G131300	Up	Purple
Glyma.08G131300	Up	Yellow
Glyma.08G132600	Up	Black
Glyma.08G132600	Up	Brown
Glyma.08G132600	Up	Yellow
Glyma.08G133100	Up	Brown
Glyma.08G134300	Up	Purple
Glyma.08G135600	Up	Brown
Glyma.08G135600	Up	Purple
Glyma.08G135600	Up	Yellow
Glyma.08G136300	Up	Black
Glyma.08G136300	Up	Brown

Glyma.08G136300	Up	Purple
Glyma.08G136300	Up	Yellow
Glyma.08G136600	Up	Yellow
Glyma.08G137000	Up	Black
Glyma.08G137000	Up	Brown
Glyma.08G137000	Up	Yellow
Glyma.08G138300	Up	Brown
Glyma.08G138300	Up	Yellow
Glyma.08G138400	Up	Brown
Glyma.08G139200	Up	Brown
Glyma.08G139400	Up	Brown
Glyma.08G140100	Up	Yellow
Glyma.08G140200	Up	Black
Glyma.08G140200	Up	Brown
Glyma.08G140600	Up	Black
Glyma.08G140600	Up	Brown
Glyma.08G140900	Up	Yellow
Glyma.09G233400	Up	Purple
Glyma.09G233400	Up	Yellow
Glyma.09G233800	Up	Brown
Glyma.09G233800	Up	Purple
Glyma.09G233800	Up	Yellow
Glyma.09G233900	Up	Black
Glyma.09G233900	Up	Yellow
Glyma.09G235100	Up	Brown
Glyma.09G235100	Up	Purple
Glyma.09G235100	Up	Yellow
Glyma.09G236200	Up	Brown
Glyma.09G236900	Up	Purple
Glyma.09G238300	Up	Black
Glyma.09G238300	Up	Brown

Glyma.09G238300	Up	Purple
Glyma.09G238300	Up	Yellow
Glyma.09G241300	Up	Brown
Glyma.09G241300	Up	Purple
Glyma.09G241300	Up	Yellow
Glyma.09G241800	Up	Brown
Glyma.09G241800	Up	Purple
Glyma.09G241800	Up	Yellow
Glyma.09G243100	Up	Purple
Glyma.09G245400	Up	Purple
Glyma.09G245400	Up	Yellow
Glyma.09G246200	Up	Purple
Glyma.09G246200	Up	Yellow
Glyma.09G247700	Up	Purple
Glyma.09G249400	Up	Brown
Glyma.09G249500	Up	Black
Glyma.09G249500	Up	Brown
Glyma.09G249500	Up	Purple
Glyma.09G249500	Up	Yellow
Glyma.09G250400	Up	Brown
Glyma.09G250400	Up	Purple
Glyma.09G250400	Up	Yellow
Glyma.09G250500	Up	Purple
Glyma.09G250500	Up	Yellow
Glyma.09G250800	Up	Brown
Glyma.09G250800	Up	Purple
Glyma.09G250800	Up	Yellow
Glyma.09G255800	Up	Purple
Glyma.09G256100	Up	Brown
Glyma.09G256100	Up	Purple
Glyma.09G257200	Up	Yellow

Glyma.09G257300	Up	Purple
Glyma.09G258000	Up	Brown
Glyma.09G258400	Up	Purple
Glyma.09G260000	Up	Yellow
Glyma.17G001800	Up	Purple
Glyma.17G006000	Up	Purple
Glyma.17G006000	Up	Yellow
Glyma.17G006100	Up	Brown
Glyma.17G007400	Up	Black
Glyma.17G007400	Up	Purple

Stable 7. The Fst genes in major QTL interval.

Chr	Position	Fst	Type	Color	Gene	GeneType
1	52808809	0.839177	Landrace vs Wild	red	Glyma.01G193500.1	CDS
1	52808809	0.814802	Improved vs Wild	green	Glyma.01G193500.1	CDS
1	52835882	0.670713	Improved vs Wild	green	Glyma.01G193900.1	CDS
1	52854004	0.614073	Improved vs Wild	green	Glyma.01G194200.1	CDS
1	52854193	0.645874	Improved vs Wild	green	Glyma.01G194200.1	CDS
1	52854467	0.653156	Improved vs Wild	green	Glyma.01G194200.1	CDS
1	52864885	0.676622	Landrace vs Wild	red	Glyma.01G194400.1	CDS
1	52864885	0.647685	Improved vs Wild	green	Glyma.01G194400.1	CDS
1	52881497	0.602282	Landrace vs Wild	red	Glyma.01G194600.1	CDS
1	52896735	0.695496	Landrace vs Wild	red	Glyma.01G194800.1	CDS
1	52896735	0.782885	Improved vs Wild	green	Glyma.01G194800.1	CDS

1	52914925	0.661191	Landrace vs Wild	red	Glyma.01G194900.1	CDS
1	52914925	0.76102	Improved vs Wild	green	Glyma.01G194900.1	CDS
1	52926362	0.851006	Landrace vs Wild	red	Glyma.01G195100.1	CDS
1	52926802	0.647033	Landrace vs Wild	red	Glyma.01G195100.1	CDS
1	52926987	0.797372	Landrace vs Wild	red	Glyma.01G195100.1	CDS
1	52926362	0.833714	Improved vs Wild	green	Glyma.01G195100.1	CDS
1	52926802	0.621481	Improved vs Wild	green	Glyma.01G195100.1	CDS
1	52926987	0.784819	Improved vs Wild	green	Glyma.01G195100.1	CDS
1	52942422	0.626516	Landrace vs Wild	red	Glyma.01G195200.1	CDS
1	52943587	0.681064	Landrace vs Wild	red	Glyma.01G195200.1	CDS
1	52942422	0.747461	Improved vs Wild	green	Glyma.01G195200.1	CDS
1	52943587	0.80974	Improved vs Wild	green	Glyma.01G195200.1	CDS
1	52952506	0.679563	Improved vs Wild	green	Glyma.01G195300.1	CDS
1	52963287	0.654532	Improved vs Wild	green	Glyma.01G195500.1	CDS
1	52968397	0.674833	Landrace vs Wild	red	Glyma.01G195600.1	CDS
1	52968397	0.807698	Improved vs Wild	green	Glyma.01G195600.1	CDS
1	52992728	0.646724	Landrace vs Wild	red	Glyma.01G195900.1	CDS
1	52992728	0.618721	Improved vs Wild	green	Glyma.01G195900.1	CDS
1	53070718	0.635709	Landrace vs Wild	red	Glyma.01G196400.1	CDS

1	53071229	0.614151	Landrace vs Wild	red	Glyma.01G196400.1	CDS
1	53071258	0.606734	Landrace vs Wild	red	Glyma.01G196400.1	CDS
1	53073048	0.624464	Landrace vs Wild	red	Glyma.01G196400.1	CDS
1	53073581	0.621497	Landrace vs Wild	red	Glyma.01G196400.1	CDS
1	53070718	0.605672	Improved vs Wild	green	Glyma.01G196400.1	CDS
1	53136418	0.740419	Landrace vs Wild	red	Glyma.01G197300.1	CDS
1	53136418	0.714602	Improved vs Wild	green	Glyma.01G197300.1	CDS
1	53140582	0.68734	Landrace vs Wild	red	Glyma.01G197400.1	CDS
1	53140582	0.663113	Improved vs Wild	green	Glyma.01G197400.1	CDS
1	53151772	0.802127	Landrace vs Wild	red	Glyma.01G197600.1	CDS
1	53151772	0.783123	Improved vs Wild	green	Glyma.01G197600.1	CDS
1	53161315	0.622349	Landrace vs Wild	red	Glyma.01G197700.1	CDS
1	53161381	0.652785	Landrace vs Wild	red	Glyma.01G197700.1	CDS
1	53161315	0.607754	Improved vs Wild	green	Glyma.01G197700.1	CDS
1	53161381	0.633956	Improved vs Wild	green	Glyma.01G197700.1	CDS
1	53172285	0.860562	Landrace vs Wild	red	Glyma.01G197800.1	CDS
1	53173157	0.88601	Landrace vs Wild	red	Glyma.01G197800.1	CDS
1	53172285	0.855269	Improved vs Wild	green	Glyma.01G197800.1	CDS
1	53173157	0.88007	Improved vs Wild	green	Glyma.01G197800.1	CDS

1	53190724	0.67248	Landrace vs Wild	red	Glyma.01G197900.1	CDS
1	53192022	0.77097	Landrace vs Wild	red	Glyma.01G197900.1	CDS
1	53192116	0.696274	Landrace vs Wild	red	Glyma.01G197900.1	CDS
1	53190724	0.658254	Improved vs Wild	green	Glyma.01G197900.1	CDS
1	53192022	0.736184	Improved vs Wild	green	Glyma.01G197900.1	CDS
1	53192116	0.661833	Improved vs Wild	green	Glyma.01G197900.1	CDS
1	53202338	0.861453	Landrace vs Wild	red	Glyma.01G198000.1	CDS
1	53202338	0.855828	Improved vs Wild	green	Glyma.01G198000.1	CDS
1	53211484	0.875481	Landrace vs Wild	red	Glyma.01G198100.1	CDS
1	53211700	0.911526	Landrace vs Wild	red	Glyma.01G198100.1	CDS
1	53211484	0.870877	Improved vs Wild	green	Glyma.01G198100.1	CDS
1	53211700	0.889354	Improved vs Wild	green	Glyma.01G198100.1	CDS
1	53217287	0.867182	Landrace vs Wild	red	Glyma.01G198200.1	CDS
1	53217287	0.875624	Improved vs Wild	green	Glyma.01G198200.1	CDS
1	53229579	0.859923	Improved vs Wild	green	Glyma.01G198500.1	CDS
1	53283799	0.866129	Improved vs Wild	green	Glyma.01G198900.1	CDS
1	53301022	0.745595	Landrace vs Wild	red	Glyma.01G199000.1	CDS
1	53301028	0.677328	Landrace vs Wild	red	Glyma.01G199000.1	CDS
1	53296286	0.798698	Improved vs Wild	green	Glyma.01G199000.1	CDS

1	53298091	0.780212	Improved vs Wild	green	Glyma.01G199000.1	CDS
1	53301022	0.710336	Improved vs Wild	green	Glyma.01G199000.1	CDS
1	53301028	0.634188	Improved vs Wild	green	Glyma.01G199000.1	CDS
1	53302588	0.612503	Landrace vs Wild	red	Glyma.01G199100.1	CDS
1	53304377	0.641676	Landrace vs Wild	red	Glyma.01G199100.1	CDS
1	53304377	0.603578	Improved vs Wild	green	Glyma.01G199100.1	CDS
1	53311555	0.935449	Landrace vs Wild	red	Glyma.01G199300.1	CDS
1	53311555	0.932634	Improved vs Wild	green	Glyma.01G199300.1	CDS
1	53323032	0.879155	Improved vs Wild	green	Glyma.01G199400.1	CDS
1	53334119	0.608905	Improved vs Wild	green	Glyma.01G199600.1	CDS
1	53334898	0.890971	Improved vs Wild	green	Glyma.01G199600.1	CDS
1	53335259	0.621683	Improved vs Wild	green	Glyma.01G199600.1	CDS
1	53335306	0.63503	Improved vs Wild	green	Glyma.01G199600.1	CDS
1	53335309	0.63242	Improved vs Wild	green	Glyma.01G199600.1	CDS
1	53348097	0.889075	Improved vs Wild	green	Glyma.01G199700.1	CDS
1	53349002	0.603927	Improved vs Wild	green	Glyma.01G199700.1	CDS
1	53352571	0.789521	Landrace vs Wild	red	Glyma.01G199800.1	CDS
1	53353242	0.72317	Landrace vs Wild	red	Glyma.01G199800.1	CDS
1	53352571	0.769846	Improved vs Wild	green	Glyma.01G199800.1	CDS

1	53353044	0.864786	Improved vs Wild	green	Glyma.01G199800.1	CDS
1	53353242	0.701291	Improved vs Wild	green	Glyma.01G199800.1	CDS
1	53397586	0.635447	Landrace vs Wild	red	Glyma.01G200200.1	CDS
1	53391754	0.718878	Improved vs Wild	green	Glyma.01G200200.1	CDS
1	53396771	0.894477	Improved vs Wild	green	Glyma.01G200200.1	CDS
1	53397586	0.712861	Improved vs Wild	green	Glyma.01G200200.1	CDS
1	53399135	0.697289	Landrace vs Wild	red	Glyma.01G200300.1	CDS
1	53399135	0.799393	Improved vs Wild	green	Glyma.01G200300.1	CDS
1	53403452	0.765492	Landrace vs Wild	red	Glyma.01G200400.1	CDS
1	53403452	0.826353	Improved vs Wild	green	Glyma.01G200400.1	CDS
1	53403453	0.62993	Improved vs Wild	green	Glyma.01G200400.1	CDS
1	53423278	0.650035	Improved vs Wild	green	Glyma.01G200600.1	CDS
1	53432667	0.608152	Landrace vs Wild	red	Glyma.01G200700.1	CDS
1	53440513	0.780881	Landrace vs Wild	red	Glyma.01G200800.1	CDS
1	53440728	0.824534	Landrace vs Wild	red	Glyma.01G200800.1	CDS
1	53440513	0.845103	Improved vs Wild	green	Glyma.01G200800.1	CDS
1	53440728	0.895499	Improved vs Wild	green	Glyma.01G200800.1	CDS
1	53509600	0.825775	Landrace vs Wild	red	Glyma.01G202300.1	CDS
1	53510177	0.854354	Landrace vs Wild	red	Glyma.01G202300.1	CDS

1	53509600	0.837069	Improved vs Wild	green	Glyma.01G202300.1	CDS
1	53510177	0.855596	Improved vs Wild	green	Glyma.01G202300.1	CDS
1	53547948	0.809983	Landrace vs Wild	red	Glyma.01G202700.1	CDS
1	53547948	0.780545	Improved vs Wild	green	Glyma.01G202700.1	CDS
1	53667911	0.694141	Improved vs Wild	green	Glyma.01G203500.1	CDS
1	53802645	0.827536	Landrace vs Wild	red	Glyma.01G205500.1	CDS
1	53802645	0.893077	Improved vs Wild	green	Glyma.01G205500.1	CDS
1	53803232	0.620851	Improved vs Wild	green	Glyma.01G205500.1	CDS
1	53808858	0.605659	Improved vs Wild	green	Glyma.01G205600.1	CDS
1	53809006	0.618528	Improved vs Wild	green	Glyma.01G205600.1	CDS
1	53816656	0.769184	Landrace vs Wild	red	Glyma.01G205700.1	CDS
1	53816656	0.837289	Improved vs Wild	green	Glyma.01G205700.1	CDS
1	53856925	0.60523	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53858190	0.635469	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53858215	0.638482	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53858303	0.649245	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53858338	0.671434	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53858350	0.655582	Landrace vs Wild	red	Glyma.01G206100.1	CDS
1	53856694	0.673144	Improved vs Wild	green	Glyma.01G206100.1	CDS

1	53856925	0.684705	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858190	0.720988	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858215	0.719957	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858303	0.715905	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858338	0.720522	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858350	0.716247	Improved vs Wild	green	Glyma.01G206100.1	CDS
1	53858964	0.657387	Landrace vs Wild	red	Glyma.01G206200.1	CDS
1	53858998	0.756475	Landrace vs Wild	red	Glyma.01G206200.1	CDS
1	53859000	0.759339	Landrace vs Wild	red	Glyma.01G206200.1	CDS
1	53859020	0.676989	Landrace vs Wild	red	Glyma.01G206200.1	CDS
1	53858964	0.675263	Improved vs Wild	green	Glyma.01G206200.1	CDS
1	53858998	0.71799	Improved vs Wild	green	Glyma.01G206200.1	CDS
1	53859000	0.721779	Improved vs Wild	green	Glyma.01G206200.1	CDS
1	53859020	0.815217	Improved vs Wild	green	Glyma.01G206200.1	CDS
1	53862553	0.661163	Landrace vs Wild	red	Glyma.01G206300.1	CDS
1	53863863	0.641256	Landrace vs Wild	red	Glyma.01G206300.1	CDS
1	53862553	0.817758	Improved vs Wild	green	Glyma.01G206300.1	CDS
1	53863863	0.816161	Improved vs Wild	green	Glyma.01G206300.1	CDS
1	53863874	0.618989	Improved vs Wild	green	Glyma.01G206300.1	CDS

1	53872882	0.719501	Landrace vs Wild	red	Glyma.01G206400.1	CDS
1	53872882	0.877774	Improved vs Wild	green	Glyma.01G206400.1	CDS
1	53867514	0.658901	Landrace vs Wild	red	Glyma.01G206500.1	CDS
1	53868719	0.662454	Landrace vs Wild	red	Glyma.01G206500.1	CDS
1	53868737	0.663642	Landrace vs Wild	red	Glyma.01G206500.1	CDS
1	53867514	0.827667	Improved vs Wild	green	Glyma.01G206500.1	CDS
1	53868719	0.840397	Improved vs Wild	green	Glyma.01G206500.1	CDS
1	53868737	0.828023	Improved vs Wild	green	Glyma.01G206500.1	CDS
1	53877356	0.670117	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53877450	0.617054	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53877479	0.701664	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53877735	0.663468	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53877813	0.634783	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53878008	0.698127	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53878082	0.716576	Landrace vs Wild	red	Glyma.01G206600.1	CDS
1	53877356	0.868046	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53877450	0.820773	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53877479	0.862301	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53877593	0.678209	Improved vs Wild	green	Glyma.01G206600.1	CDS

1	53877710	0.771025	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53877735	0.842373	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53877813	0.810395	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53878008	0.871357	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53878082	0.870525	Improved vs Wild	green	Glyma.01G206600.1	CDS
1	53895076	0.67535	Landrace vs Wild	red	Glyma.01G206800.1	CDS
1	53895076	0.639334	Improved vs Wild	green	Glyma.01G206800.1	CDS
1	53932009	0.7367	Landrace vs Wild	red	Glyma.01G207300.1	CDS
1	53932009	0.873737	Improved vs Wild	green	Glyma.01G207300.1	CDS
1	53945281	0.711783	Improved vs Wild	green	Glyma.01G207500.1	CDS
1	53954038	0.650572	Landrace vs Wild	red	Glyma.01G207600.1	CDS
1	53954038	0.609381	Improved vs Wild	green	Glyma.01G207600.1	CDS
1	53961506	0.73713	Landrace vs Wild	red	Glyma.01G207700.1	CDS
1	53961611	0.766941	Landrace vs Wild	red	Glyma.01G207700.1	CDS
1	53961506	0.695602	Improved vs Wild	green	Glyma.01G207700.1	CDS
1	53961611	0.72637	Improved vs Wild	green	Glyma.01G207700.1	CDS
1	53969183	0.791083	Landrace vs Wild	red	Glyma.01G207800.1	CDS
1	53969183	0.895246	Improved vs Wild	green	Glyma.01G207800.1	CDS
1	53980639	0.863023	Landrace vs Wild	red	Glyma.01G207900.1	CDS

1	53980690	0.721139	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53980695	0.873209	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53981267	0.685198	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53981319	0.635096	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53981349	0.646289	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53983252	0.833978	Landrace vs Wild	red	Glyma.01G207900.1	CDS
1	53980639	0.84815	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53980690	0.834381	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53980695	0.859716	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53981267	0.801941	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53981319	0.773022	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53981349	0.784801	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53983252	0.814333	Improved vs Wild	green	Glyma.01G207900.1	CDS
1	53986618	0.671912	Landrace vs Wild	red	Glyma.01G208000.1	CDS
1	53986619	0.667814	Landrace vs Wild	red	Glyma.01G208000.1	CDS
1	53986618	0.808931	Improved vs Wild	green	Glyma.01G208000.1	CDS
1	53986619	0.802038	Improved vs Wild	green	Glyma.01G208000.1	CDS
1	53989425	0.735184	Landrace vs Wild	red	Glyma.01G208100.1	CDS
1	53990031	0.643918	Landrace vs Wild	red	Glyma.01G208100.1	CDS

1	53989425	0.863859	Improved vs Wild	green	Glyma.01G208100.1	CDS
1	53989740	0.718799	Improved vs Wild	green	Glyma.01G208100.1	CDS
1	53990031	0.784683	Improved vs Wild	green	Glyma.01G208100.1	CDS
1	53996443	0.718947	Landrace vs Wild	red	Glyma.01G208200.1	CDS
1	53996443	0.685159	Improved vs Wild	green	Glyma.01G208200.1	CDS
1	54002573	0.683281	Landrace vs Wild	red	Glyma.01G208300.1	CDS
1	54008695	0.712617	Landrace vs Wild	red	Glyma.01G208300.1	CDS
1	54009030	0.692597	Landrace vs Wild	red	Glyma.01G208300.1	CDS
1	54009276	0.684864	Landrace vs Wild	red	Glyma.01G208300.1	CDS
1	54009321	0.695714	Landrace vs Wild	red	Glyma.01G208300.1	CDS
1	54002573	0.800673	Improved vs Wild	green	Glyma.01G208300.1	CDS
1	54008695	0.818157	Improved vs Wild	green	Glyma.01G208300.1	CDS
1	54009030	0.824451	Improved vs Wild	green	Glyma.01G208300.1	CDS
1	54009276	0.82033	Improved vs Wild	green	Glyma.01G208300.1	CDS
1	54009321	0.824847	Improved vs Wild	green	Glyma.01G208300.1	CDS
1	54016233	0.701995	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016267	0.719313	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016284	0.722663	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016302	0.835796	Landrace vs Wild	red	Glyma.01G208500.1	CDS

1	54016358	0.709763	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016367	0.713523	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016376	0.703174	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016389	0.694381	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016403	0.715141	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016438	0.696617	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016441	0.686616	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016453	0.691093	Landrace vs Wild	red	Glyma.01G208500.1	CDS
1	54016233	0.822986	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016267	0.84092	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016284	0.837845	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016302	0.924942	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016358	0.832101	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016367	0.831854	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016376	0.823691	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016389	0.818802	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016403	0.829485	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016438	0.819522	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54016441	0.816915	Improved vs Wild	green	Glyma.01G208500.1	CDS

1	54016453	0.817504	Improved vs Wild	green	Glyma.01G208500.1	CDS
1	54027244	0.731153	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54027668	0.75009	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54028760	0.741957	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54031290	0.759247	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54032036	0.757182	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54036287	0.734461	Landrace vs Wild	red	Glyma.01G208600.1	CDS
1	54027244	0.853497	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54027625	0.690544	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54027668	0.870039	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54028760	0.872976	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54031290	0.882213	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54032036	0.880411	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54036287	0.842184	Improved vs Wild	green	Glyma.01G208600.1	CDS
1	54042123	0.669171	Landrace vs Wild	red	Glyma.01G208700.1	CDS
1	54042123	0.79209	Improved vs Wild	green	Glyma.01G208700.1	CDS
1	54052378	0.933822	Landrace vs Wild	red	Glyma.01G208900.1	CDS
1	54054054	0.740114	Landrace vs Wild	red	Glyma.01G208900.1	CDS
1	54052378	0.930415	Improved vs Wild	green	Glyma.01G208900.1	CDS

1	54054041	0.718045	Improved vs Wild	green	Glyma.01G208900.1	CDS
1	54054054	0.858698	Improved vs Wild	green	Glyma.01G208900.1	CDS
1	54057384	0.653326	Landrace vs Wild	red	Glyma.01G209000.1	CDS
1	54057414	0.680808	Landrace vs Wild	red	Glyma.01G209000.1	CDS
1	54057384	0.614306	Improved vs Wild	green	Glyma.01G209000.1	CDS
1	54057414	0.649975	Improved vs Wild	green	Glyma.01G209000.1	CDS
1	54081315	0.669678	Landrace vs Wild	red	Glyma.01G209200.1	CDS
1	54083770	0.885338	Landrace vs Wild	red	Glyma.01G209200.1	CDS
1	54085350	0.655895	Landrace vs Wild	red	Glyma.01G209200.1	CDS
1	54081315	0.644126	Improved vs Wild	green	Glyma.01G209200.1	CDS
1	54083770	0.866297	Improved vs Wild	green	Glyma.01G209200.1	CDS
1	54085350	0.623304	Improved vs Wild	green	Glyma.01G209200.1	CDS
1	54094115	0.858784	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54095020	0.923343	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54095488	0.920922	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54095662	0.926973	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54096672	0.874546	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54099093	0.858899	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54099411	0.875959	Landrace vs Wild	red	Glyma.01G209300.1	CDS

1	54099774	0.867198	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54100759	0.673778	Landrace vs Wild	red	Glyma.01G209300.1	CDS
1	54094115	0.844107	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54095020	0.915068	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54095488	0.913015	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54095662	0.922121	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54096672	0.853003	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54099093	0.843407	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54099411	0.858664	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54099774	0.846478	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54100759	0.649018	Improved vs Wild	green	Glyma.01G209300.1	CDS
1	54107598	0.611932	Landrace vs Wild	red	Glyma.01G209500.1	CDS
1	54134164	0.661654	Improved vs Wild	green	Glyma.01G209800.1	CDS
1	54138030	0.649523	Improved vs Wild	green	Glyma.01G209800.1	CDS
1	54162279	0.712916	Landrace vs Wild	red	Glyma.01G210300.1	CDS
1	54162279	0.687004	Improved vs Wild	green	Glyma.01G210300.1	CDS
1	54172053	0.634157	Landrace vs Wild	red	Glyma.01G210400.1	CDS
1	54188069	0.605689	Landrace vs Wild	red	Glyma.01G210500.1	CDS
1	54188295	0.804316	Landrace vs Wild	red	Glyma.01G210500.1	CDS

1	54186117	0.683901	Improved vs Wild	green	Glyma.01G210500.1	CDS
1	54186435	0.732295	Improved vs Wild	green	Glyma.01G210500.1	CDS
1	54188295	0.93232	Improved vs Wild	green	Glyma.01G210500.1	CDS
1	54227129	0.634781	Improved vs Wild	green	Glyma.01G210700.1	CDS
1	54234656	0.776921	Landrace vs Wild	red	Glyma.01G210800.1	CDS
1	54234656	0.929786	Improved vs Wild	green	Glyma.01G210800.1	CDS
1	54264790	0.786783	Landrace vs Wild	red	Glyma.01G211000.1	CDS
1	54264989	0.683041	Landrace vs Wild	red	Glyma.01G211000.1	CDS
1	54264790	0.913549	Improved vs Wild	green	Glyma.01G211000.1	CDS
1	54264989	0.646433	Improved vs Wild	green	Glyma.01G211000.1	CDS
1	54269192	0.746153	Landrace vs Wild	red	Glyma.01G211100.1	CDS
1	54269192	0.896271	Improved vs Wild	green	Glyma.01G211100.1	CDS
1	54269638	0.764797	Improved vs Wild	green	Glyma.01G211100.1	CDS
1	54270445	0.738791	Improved vs Wild	green	Glyma.01G211100.1	CDS
1	54270464	0.760231	Improved vs Wild	green	Glyma.01G211100.1	CDS
1	54274479	0.752504	Landrace vs Wild	red	Glyma.01G211200.1	CDS
1	54274540	0.666236	Landrace vs Wild	red	Glyma.01G211200.1	CDS
1	54274876	0.65503	Landrace vs Wild	red	Glyma.01G211200.1	CDS
1	54274958	0.752489	Landrace vs Wild	red	Glyma.01G211200.1	CDS

1	54277376	0.701112	Landrace vs Wild	red	Glyma.01G211200.1	CDS
1	54274479	0.91198	Improved vs Wild	green	Glyma.01G211200.1	CDS
1	54274540	0.618341	Improved vs Wild	green	Glyma.01G211200.1	CDS
1	54274876	0.607208	Improved vs Wild	green	Glyma.01G211200.1	CDS
1	54274958	0.905359	Improved vs Wild	green	Glyma.01G211200.1	CDS
1	54277376	0.66883	Improved vs Wild	green	Glyma.01G211200.1	CDS
4	41859173	0.695872	Landrace vs Wild	red	Glyma.04G166800.1	CDS
4	41859173	0.643666	Improved vs Wild	green	Glyma.04G166800.1	CDS
4	41886976	0.659274	Landrace vs Wild	red	Glyma.04G167000.1	CDS
4	41887218	0.658502	Landrace vs Wild	red	Glyma.04G167000.1	CDS
4	41886976	0.610363	Improved vs Wild	green	Glyma.04G167000.1	CDS
4	41887218	0.606793	Improved vs Wild	green	Glyma.04G167000.1	CDS
4	41894731	0.654779	Landrace vs Wild	red	Glyma.04G167100.1	CDS
4	41894770	0.627441	Landrace vs Wild	red	Glyma.04G167100.1	CDS
4	41894731	0.614466	Improved vs Wild	green	Glyma.04G167100.1	CDS
4	42055289	0.716214	Landrace vs Wild	red	Glyma.04G167500.1	CDS
4	42055289	0.677617	Improved vs Wild	green	Glyma.04G167500.1	CDS
4	42066712	0.672819	Landrace vs Wild	red	Glyma.04G167600.1	CDS
4	42066739	0.670963	Landrace vs Wild	red	Glyma.04G167600.1	CDS

4	42067013	0.693992	Landrace vs Wild	red	Glyma.04G167600.1	CDS
4	42066712	0.63069	Improved vs Wild	green	Glyma.04G167600.1	CDS
4	42066739	0.627125	Improved vs Wild	green	Glyma.04G167600.1	CDS
4	42067013	0.652989	Improved vs Wild	green	Glyma.04G167600.1	CDS
4	42399983	0.706598	Improved vs Wild	green	Glyma.04G169700.1	CDS
4	42416693	0.73388	Improved vs Wild	green	Glyma.04G169800.1	CDS
4	42616752	0.837654	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616774	0.834229	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616801	0.838136	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616936	0.815774	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616937	0.815497	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616979	0.830786	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42617099	0.72286	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42617217	0.828483	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42617287	0.816217	Landrace vs Wild	red	Glyma.04G170200.1	CDS
4	42616752	0.811584	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42616774	0.808292	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42616801	0.795469	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42616936	0.777978	Improved vs Wild	green	Glyma.04G170200.1	CDS

4	42616937	0.778774	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42616979	0.79542	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42617099	0.687067	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42617143	0.696068	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42617217	0.792593	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42617255	0.661356	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42617287	0.781761	Improved vs Wild	green	Glyma.04G170200.1	CDS
4	42638214	0.632366	Improved vs Wild	green	Glyma.04G170300.1	CDS
4	42642813	0.664721	Improved vs Wild	green	Glyma.04G170300.1	CDS
4	42642827	0.661709	Improved vs Wild	green	Glyma.04G170300.1	CDS
4	42657545	0.655751	Improved vs Wild	green	Glyma.04G170400.1	CDS
4	42659150	0.655686	Improved vs Wild	green	Glyma.04G170400.1	CDS
4	42665630	0.628614	Improved vs Wild	green	Glyma.04G170500.1	CDS
4	43607684	0.606414	Landrace vs Wild	red	Glyma.04G174500.1	CDS
4	43607684	0.733405	Improved vs Wild	green	Glyma.04G174500.1	CDS
4	43646523	0.658486	Landrace vs Wild	red	Glyma.04G174700.1	CDS
4	43645621	0.776779	Improved vs Wild	green	Glyma.04G174700.1	CDS
4	43646523	0.850947	Improved vs Wild	green	Glyma.04G174700.1	CDS
4	43655565	0.71501	Improved vs Wild	green	Glyma.04G174800.1	CDS

4	43655577	0.720247	Improved vs Wild	green	Glyma.04G174800.1	CDS
4	43655628	0.664365	Improved vs Wild	green	Glyma.04G174800.1	CDS
4	43699629	0.758822	Improved vs Wild	green	Glyma.04G174900.1	CDS
4	43699827	0.786322	Improved vs Wild	green	Glyma.04G174900.1	CDS
4	43705791	0.770328	Improved vs Wild	green	Glyma.04G175000.1	CDS
4	43705902	0.731716	Improved vs Wild	green	Glyma.04G175000.1	CDS
4	43759388	0.667886	Landrace vs Wild	red	Glyma.04G175100.1	CDS
4	43755007	0.753528	Improved vs Wild	green	Glyma.04G175100.1	CDS
4	43759370	0.762739	Improved vs Wild	green	Glyma.04G175100.1	CDS
4	43759388	0.65275	Improved vs Wild	green	Glyma.04G175100.1	CDS
4	43863958	0.732934	Improved vs Wild	green	Glyma.04G175500.1	CDS
4	43864045	0.725303	Improved vs Wild	green	Glyma.04G175500.1	CDS
4	43920489	0.648417	Improved vs Wild	green	Glyma.04G176300.1	CDS
4	43970864	0.601059	Improved vs Wild	green	Glyma.04G176600.1	CDS
4	43971362	0.616694	Improved vs Wild	green	Glyma.04G176600.1	CDS
4	43999389	0.717141	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	43999700	0.664307	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	44000286	0.750996	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	44000418	0.778622	Landrace vs Wild	red	Glyma.04G176700.1	CDS

4	44000687	0.774851	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	44000761	0.62778	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	44000801	0.726228	Landrace vs Wild	red	Glyma.04G176700.1	CDS
4	43999389	0.689098	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	43999700	0.63394	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44000286	0.723135	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44000418	0.745679	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44000687	0.749903	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44000761	0.654946	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44000801	0.696298	Improved vs Wild	green	Glyma.04G176700.1	CDS
4	44006216	0.674389	Landrace vs Wild	red	Glyma.04G176800.1	CDS
4	44006216	0.621873	Improved vs Wild	green	Glyma.04G176800.1	CDS
4	44191730	0.685234	Landrace vs Wild	red	Glyma.04G177700.1	CDS
4	44191730	0.683767	Improved vs Wild	green	Glyma.04G177700.1	CDS
4	44202791	0.652619	Landrace vs Wild	red	Glyma.04G177800.1	CDS
4	44236641	0.651058	Landrace vs Wild	red	Glyma.04G178000.1	CDS
4	44236641	0.729233	Improved vs Wild	green	Glyma.04G178000.1	CDS
4	44236771	0.641928	Improved vs Wild	green	Glyma.04G178000.1	CDS
4	44248457	0.810149	Landrace vs Wild	red	Glyma.04G178200.1	CDS

4	44248457	0.89997	Improved vs Wild	green	Glyma.04G178200.1	CDS
4	44252716	0.744876	Improved vs Wild	green	Glyma.04G178200.1	CDS
4	44252778	0.659128	Improved vs Wild	green	Glyma.04G178200.1	CDS
4	44252782	0.758759	Improved vs Wild	green	Glyma.04G178200.1	CDS
4	44252809	0.651568	Improved vs Wild	green	Glyma.04G178200.1	CDS
4	44285528	0.608064	Landrace vs Wild	red	Glyma.04G178300.1	CDS
4	44285700	0.776855	Landrace vs Wild	red	Glyma.04G178300.1	CDS
4	44285724	0.872473	Landrace vs Wild	red	Glyma.04G178300.1	CDS
4	44285528	0.710877	Improved vs Wild	green	Glyma.04G178300.1	CDS
4	44285700	0.768791	Improved vs Wild	green	Glyma.04G178300.1	CDS
4	44285724	0.722056	Improved vs Wild	green	Glyma.04G178300.1	CDS
4	44287248	0.669864	Improved vs Wild	green	Glyma.04G178300.1	CDS
4	44287616	0.61356	Improved vs Wild	green	Glyma.04G178300.1	CDS
4	44293347	0.760891	Landrace vs Wild	red	Glyma.04G178400.1	CDS
4	44293347	0.812164	Improved vs Wild	green	Glyma.04G178400.1	CDS
4	44334576	0.681625	Landrace vs Wild	red	Glyma.04G178700.1	CDS
4	44359754	0.647926	Improved vs Wild	green	Glyma.04G178800.1	CDS
4	44392199	0.645493	Improved vs Wild	green	Glyma.04G179000.1	CDS
4	44392267	0.60891	Improved vs Wild	green	Glyma.04G179000.1	CDS

4	44392285	0.629942	Improved vs Wild	green	Glyma.04G179000.1	CDS
4	44392368	0.625131	Improved vs Wild	green	Glyma.04G179000.1	CDS
4	44392384	0.62683	Improved vs Wild	green	Glyma.04G179000.1	CDS
4	44392388	0.606717	Improved vs Wild	green	Glyma.04G179000.1	CDS
4	44420164	0.625088	Improved vs Wild	green	Glyma.04G179200.1	CDS
4	44426179	0.609328	Improved vs Wild	green	Glyma.04G179200.1	CDS
4	44426206	0.607462	Improved vs Wild	green	Glyma.04G179200.1	CDS
4	44592318	0.71197	Landrace vs Wild	red	Glyma.04G180100.1	CDS
4	44592318	0.77515	Improved vs Wild	green	Glyma.04G180100.1	CDS
4	44612012	0.690321	Landrace vs Wild	red	Glyma.04G180300.1	CDS
4	44612125	0.772025	Landrace vs Wild	red	Glyma.04G180300.1	CDS
4	44612141	0.763247	Landrace vs Wild	red	Glyma.04G180300.1	CDS
4	44613191	0.701291	Landrace vs Wild	red	Glyma.04G180300.1	CDS
4	44612125	0.825374	Improved vs Wild	green	Glyma.04G180300.1	CDS
4	44612141	0.818892	Improved vs Wild	green	Glyma.04G180300.1	CDS
6	18353642	0.625869	Improved vs Wild	green	Glyma.06G200500.1	CDS
6	18354013	0.635617	Improved vs Wild	green	Glyma.06G200500.1	CDS
6	18354588	0.624349	Improved vs Wild	green	Glyma.06G200500.1	CDS
6	18399404	0.622912	Improved vs Wild	green	Glyma.06G200700.1	CDS

6	18407857	0.642119	Improved vs Wild	green	Glyma.06G200900.1	CDS
6	18521293	0.799115	Improved vs Wild	green	Glyma.06G201300.1	CDS
6	18521996	0.850451	Improved vs Wild	green	Glyma.06G201300.1	CDS
6	18698542	0.635112	Improved vs Wild	green	Glyma.06G202100.1	CDS
6	18819533	0.604543	Improved vs Wild	green	Glyma.06G202500.1	CDS
6	18884110	0.609381	Improved vs Wild	green	Glyma.06G202700.1	CDS
6	18885049	0.628151	Improved vs Wild	green	Glyma.06G202700.1	CDS
6	18887685	0.622994	Improved vs Wild	green	Glyma.06G202700.1	CDS
6	18887753	0.634057	Improved vs Wild	green	Glyma.06G202700.1	CDS
6	18922678	0.651271	Improved vs Wild	green	Glyma.06G202900.1	CDS
6	18963370	0.767197	Improved vs Wild	green	Glyma.06G203000.1	CDS
6	18982853	0.675277	Improved vs Wild	green	Glyma.06G203100.1	CDS
6	19117966	0.759279	Improved vs Wild	green	Glyma.06G203900.1	CDS
6	19699705	0.682632	Improved vs Wild	green	Glyma.06G206000.1	CDS
6	19710423	0.63378	Improved vs Wild	green	Glyma.06G206000.1	CDS
6	19938888	0.882005	Improved vs Wild	green	Glyma.06G206900.1	CDS
6	19939767	0.862651	Improved vs Wild	green	Glyma.06G206900.1	CDS
6	19957038	0.616833	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957102	0.646752	Landrace vs Wild	red	Glyma.06G207000.1	CDS

6	19957306	0.630048	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957330	0.624765	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957451	0.626195	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957518	0.651051	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957568	0.706946	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957569	0.601123	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957601	0.741048	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957827	0.695625	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957999	0.705156	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958010	0.667152	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958177	0.668693	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958328	0.634565	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958336	0.622045	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958519	0.671928	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958637	0.728232	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19958832	0.625435	Landrace vs Wild	red	Glyma.06G207000.1	CDS
6	19957038	0.691709	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957102	0.862717	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957306	0.843503	Improved vs Wild	green	Glyma.06G207000.1	CDS

6	19957330	0.70403	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957451	0.703737	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957518	0.828914	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957568	0.737099	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957601	0.733688	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957827	0.76134	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19957999	0.871521	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958010	0.723506	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958177	0.854313	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958328	0.816685	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958336	0.810699	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958406	0.615929	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958519	0.831007	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958637	0.795475	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19958832	0.662187	Improved vs Wild	green	Glyma.06G207000.1	CDS
6	19967715	0.634866	Landrace vs Wild	red	Glyma.06G207100.1	CDS
6	19969134	0.686286	Landrace vs Wild	red	Glyma.06G207100.1	CDS
6	19967715	0.69704	Improved vs Wild	green	Glyma.06G207100.1	CDS
6	19969134	0.875047	Improved vs Wild	green	Glyma.06G207100.1	CDS

6	19978797	0.703433	Landrace vs Wild	red	Glyma.06G207200.1	CDS
6	19979000	0.692793	Landrace vs Wild	red	Glyma.06G207200.1	CDS
6	19979054	0.67957	Landrace vs Wild	red	Glyma.06G207200.1	CDS
6	19979149	0.70454	Landrace vs Wild	red	Glyma.06G207200.1	CDS
6	19978790	0.648463	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19978797	0.886058	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19978931	0.639022	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979000	0.883414	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979028	0.894138	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979054	0.869454	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979068	0.618843	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979149	0.88009	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	19979201	0.896459	Improved vs Wild	green	Glyma.06G207200.1	CDS
6	20012128	0.789375	Improved vs Wild	green	Glyma.06G207300.1	CDS
6	20281717	0.828582	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281723	0.823119	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281746	0.820203	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281827	0.741538	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281855	0.837136	Improved vs Wild	green	Glyma.06G207900.1	CDS

6	20281896	0.829805	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281899	0.830831	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281906	0.832285	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20281932	0.820271	Improved vs Wild	green	Glyma.06G207900.1	CDS
6	20532951	0.761773	Improved vs Wild	green	Glyma.06G209000.1	CDS
6	20727872	0.675106	Landrace vs Wild	red	Glyma.06G210100.1	CDS
6	20727872	0.643445	Improved vs Wild	green	Glyma.06G210100.1	CDS
6	43935115	0.673879	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	43935136	0.679423	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	43935172	0.669664	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	43935220	0.680611	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	43935244	0.677806	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	43935318	0.647082	Improved vs Wild	green	Glyma.06G256900.1	CDS
6	44003640	0.620605	Landrace vs Wild	red	Glyma.06G257100.1	CDS
6	44004121	0.739064	Landrace vs Wild	red	Glyma.06G257100.1	CDS
6	44003640	0.627906	Improved vs Wild	green	Glyma.06G257100.1	CDS
6	44004121	0.738575	Improved vs Wild	green	Glyma.06G257100.1	CDS
6	44004406	0.607298	Improved vs Wild	green	Glyma.06G257100.1	CDS
7	223377	0.631166	Landrace vs Wild	red	Glyma.07G002800.1	CDS

7	223648	0.645469	Landrace vs Wild	red	Glyma.07G002800.1	CDS
7	264029	0.8384	Landrace vs Wild	red	Glyma.07G003400.1	CDS
7	264029	0.803116	Improved vs Wild	green	Glyma.07G003400.1	CDS
7	289848	0.651019	Landrace vs Wild	red	Glyma.07G003800.1	CDS
7	289848	0.621432	Improved vs Wild	green	Glyma.07G003800.1	CDS
7	613083	0.619438	Landrace vs Wild	red	Glyma.07G008400.1	CDS
7	614404	0.670421	Landrace vs Wild	red	Glyma.07G008400.1	CDS
7	615020	0.655553	Landrace vs Wild	red	Glyma.07G008400.1	CDS
7	614404	0.640124	Improved vs Wild	green	Glyma.07G008400.1	CDS
7	615020	0.639443	Improved vs Wild	green	Glyma.07G008400.1	CDS
7	628703	0.654849	Improved vs Wild	green	Glyma.07G008500.1	CDS
7	652710	0.603951	Improved vs Wild	green	Glyma.07G008800.1	CDS
7	880216	0.734068	Landrace vs Wild	red	Glyma.07G011500.1	CDS
7	880912	0.651244	Landrace vs Wild	red	Glyma.07G011500.1	CDS
7	880216	0.639939	Improved vs Wild	green	Glyma.07G011500.1	CDS
7	880912	0.60934	Improved vs Wild	green	Glyma.07G011500.1	CDS
7	1212704	0.688073	Improved vs Wild	green	Glyma.07G015300.1	CDS
7	1217288	0.690632	Improved vs Wild	green	Glyma.07G015400.1	CDS
7	1217814	0.642975	Improved vs Wild	green	Glyma.07G015400.1	CDS

7	1279847	0.766818	Improved vs Wild	green	Glyma.07G015900.1	CDS
7	1296946	0.787647	Improved vs Wild	green	Glyma.07G016100.1	CDS
7	1309091	0.79311	Improved vs Wild	green	Glyma.07G016200.1	CDS
7	1309503	0.703209	Improved vs Wild	green	Glyma.07G016200.1	CDS
7	1310810	0.672427	Improved vs Wild	green	Glyma.07G016200.1	CDS
7	1344804	0.666917	Improved vs Wild	green	Glyma.07G016700.1	CDS
7	1381557	0.618246	Landrace vs Wild	red	Glyma.07G017000.1	CDS
7	1381557	0.802464	Improved vs Wild	green	Glyma.07G017000.1	CDS
7	1382255	0.612778	Improved vs Wild	green	Glyma.07G017000.1	CDS
7	1409648	0.74345	Improved vs Wild	green	Glyma.07G017400.1	CDS
7	1416846	0.660496	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1417420	0.64704	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1418348	0.656591	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1418851	0.638926	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1419501	0.665132	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1419690	0.6616	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1419753	0.649608	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1419755	0.653081	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1421028	0.637527	Landrace vs Wild	red	Glyma.07G017600.1	CDS

7	1421191	0.679062	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1421278	0.66985	Landrace vs Wild	red	Glyma.07G017600.1	CDS
7	1416846	0.772804	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1417420	0.766363	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1418348	0.769333	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1418851	0.768659	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1419501	0.767885	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1419690	0.780359	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1419753	0.781343	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1419755	0.78316	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1421028	0.780207	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1421191	0.784803	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1421278	0.78724	Improved vs Wild	green	Glyma.07G017600.1	CDS
7	1424479	0.666408	Landrace vs Wild	red	Glyma.07G017700.1	CDS
7	1426057	0.633488	Landrace vs Wild	red	Glyma.07G017700.1	CDS
7	1424479	0.788142	Improved vs Wild	green	Glyma.07G017700.1	CDS
7	1426057	0.76533	Improved vs Wild	green	Glyma.07G017700.1	CDS
7	1554144	0.604789	Landrace vs Wild	red	Glyma.07G019700.1	CDS
7	1554144	0.739385	Improved vs Wild	green	Glyma.07G019700.1	CDS

7	1556597	0.618862	Landrace vs Wild	red	Glyma.07G019800.1	CDS
7	1556981	0.621339	Landrace vs Wild	red	Glyma.07G019800.1	CDS
7	1556993	0.609571	Landrace vs Wild	red	Glyma.07G019800.1	CDS
7	1556597	0.751148	Improved vs Wild	green	Glyma.07G019800.1	CDS
7	1556981	0.756427	Improved vs Wild	green	Glyma.07G019800.1	CDS
7	1556993	0.749253	Improved vs Wild	green	Glyma.07G019800.1	CDS
7	1591299	0.681841	Improved vs Wild	green	Glyma.07G020300.1	CDS
7	1591792	0.676621	Improved vs Wild	green	Glyma.07G020300.1	CDS
7	1592006	0.676538	Improved vs Wild	green	Glyma.07G020300.1	CDS
7	1618977	0.606552	Improved vs Wild	green	Glyma.07G020700.1	CDS
7	1624651	0.694801	Landrace vs Wild	red	Glyma.07G020800.1	CDS
7	1624651	0.677423	Improved vs Wild	green	Glyma.07G020800.1	CDS
7	1665544	0.69098	Improved vs Wild	green	Glyma.07G021400.1	CDS
7	1671900	0.659242	Improved vs Wild	green	Glyma.07G021500.1	CDS
7	1725867	0.70529	Landrace vs Wild	red	Glyma.07G022400.1	CDS
7	1726791	0.626309	Landrace vs Wild	red	Glyma.07G022400.1	CDS
7	1727710	0.698378	Landrace vs Wild	red	Glyma.07G022400.1	CDS
7	1725867	0.711777	Improved vs Wild	green	Glyma.07G022400.1	CDS
7	1726432	0.728278	Improved vs Wild	green	Glyma.07G022400.1	CDS

7	1726791	0.622838	Improved vs Wild	green	Glyma.07G022400.1	CDS
7	1727710	0.734007	Improved vs Wild	green	Glyma.07G022400.1	CDS
7	1734670	0.70102	Landrace vs Wild	red	Glyma.07G022500.1	CDS
7	1734368	0.757757	Improved vs Wild	green	Glyma.07G022500.1	CDS
7	1734670	0.738851	Improved vs Wild	green	Glyma.07G022500.1	CDS
7	1737753	0.777675	Landrace vs Wild	red	Glyma.07G022600.1	CDS
7	1737977	0.884857	Landrace vs Wild	red	Glyma.07G022600.1	CDS
7	1737753	0.889436	Improved vs Wild	green	Glyma.07G022600.1	CDS
7	1737977	0.948053	Improved vs Wild	green	Glyma.07G022600.1	CDS
7	1744826	0.762146	Improved vs Wild	green	Glyma.07G022700.1	CDS
7	1747681	0.776505	Improved vs Wild	green	Glyma.07G022800.1	CDS
7	1762938	0.767029	Improved vs Wild	green	Glyma.07G023000.1	CDS
7	1765751	0.768887	Improved vs Wild	green	Glyma.07G023000.1	CDS
7	1805778	0.635994	Improved vs Wild	green	Glyma.07G023500.1	CDS
7	1818292	0.612497	Improved vs Wild	green	Glyma.07G023600.1	CDS
7	1883918	0.652693	Landrace vs Wild	red	Glyma.07G024300.1	CDS
7	2062561	0.679809	Landrace vs Wild	red	Glyma.07G026400.1	CDS
7	2062561	0.734488	Improved vs Wild	green	Glyma.07G026400.1	CDS
8	7835434	0.668703	Improved vs Wild	green	Glyma.08G102100.1	CDS

8	7841728	0.674526	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7841778	0.681879	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7841987	0.681746	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7842022	0.6876	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7842064	0.671139	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7842701	0.684357	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7842746	0.668395	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7843795	0.696113	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7843959	0.681585	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7844565	0.675171	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7844591	0.68487	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	7844594	0.671896	Improved vs Wild	green	Glyma.08G102200.1	CDS
8	8017355	0.695014	Improved vs Wild	green	Glyma.08G104400.1	CDS
8	8046253	0.657735	Improved vs Wild	green	Glyma.08G104600.1	CDS
8	8065501	0.61606	Improved vs Wild	green	Glyma.08G104800.1	CDS
8	8065618	0.610899	Improved vs Wild	green	Glyma.08G104800.1	CDS
8	8065674	0.669228	Improved vs Wild	green	Glyma.08G104800.1	CDS
8	8067870	0.624414	Improved vs Wild	green	Glyma.08G104900.1	CDS
8	8069026	0.623111	Improved vs Wild	green	Glyma.08G104900.1	CDS

8	8095794	0.650428	Improved vs Wild	green	Glyma.08G105200.1	CDS
8	8101680	0.626984	Improved vs Wild	green	Glyma.08G105200.1	CDS
8	8157061	0.62509	Improved vs Wild	green	Glyma.08G105600.1	CDS
8	8191127	0.697317	Improved vs Wild	green	Glyma.08G106000.1	CDS
8	8198079	0.652189	Improved vs Wild	green	Glyma.08G106300.1	CDS
8	8200230	0.662056	Improved vs Wild	green	Glyma.08G106400.1	CDS
8	8201008	0.679306	Improved vs Wild	green	Glyma.08G106400.1	CDS
8	8201501	0.682	Improved vs Wild	green	Glyma.08G106400.1	CDS
8	8201849	0.691232	Improved vs Wild	green	Glyma.08G106400.1	CDS
8	8202357	0.628473	Improved vs Wild	green	Glyma.08G106400.1	CDS
8	8214858	0.663024	Improved vs Wild	green	Glyma.08G106500.1	CDS
8	8216666	0.661808	Improved vs Wild	green	Glyma.08G106700.1	CDS
8	8217192	0.630736	Improved vs Wild	green	Glyma.08G106700.1	CDS
8	8221599	0.603903	Improved vs Wild	green	Glyma.08G106800.1	CDS
8	8228665	0.757497	Improved vs Wild	green	Glyma.08G106900.1	CDS
8	8228671	0.759131	Improved vs Wild	green	Glyma.08G106900.1	CDS
8	8237244	0.681796	Landrace vs Wild	red	Glyma.08G107100.1	CDS
8	8234888	0.606564	Improved vs Wild	green	Glyma.08G107100.1	CDS
8	8235754	0.607982	Improved vs Wild	green	Glyma.08G107100.1	CDS

8	8237244	0.65019	Improved vs Wild	green	Glyma.08G107100.1	CDS
8	8285261	0.625435	Improved vs Wild	green	Glyma.08G107700.1	CDS
8	8285888	0.645164	Improved vs Wild	green	Glyma.08G107700.1	CDS
8	8286649	0.653763	Improved vs Wild	green	Glyma.08G107700.1	CDS
8	8352989	0.678368	Landrace vs Wild	red	Glyma.08G108800.1	CDS
8	8381058	0.614142	Improved vs Wild	green	Glyma.08G109100.1	CDS
8	8381764	0.668766	Improved vs Wild	green	Glyma.08G109100.1	CDS
8	8389753	0.625169	Landrace vs Wild	red	Glyma.08G109300.1	CDS
8	8389753	0.617236	Improved vs Wild	green	Glyma.08G109300.1	CDS
8	8399333	0.679393	Improved vs Wild	green	Glyma.08G109500.1	CDS
8	8420033	0.802434	Improved vs Wild	green	Glyma.08G109700.1	CDS
8	8439073	0.868066	Improved vs Wild	green	Glyma.08G110000.1	CDS
8	8439205	0.819913	Improved vs Wild	green	Glyma.08G110000.1	CDS
8	8458338	0.634983	Landrace vs Wild	red	Glyma.08G110100.1	CDS
8	8458443	0.614943	Landrace vs Wild	red	Glyma.08G110100.1	CDS
8	8458338	0.791103	Improved vs Wild	green	Glyma.08G110100.1	CDS
8	8458443	0.784919	Improved vs Wild	green	Glyma.08G110100.1	CDS
8	8471397	0.607726	Landrace vs Wild	red	Glyma.08G110200.1	CDS
8	8471522	0.642409	Landrace vs Wild	red	Glyma.08G110200.1	CDS

8	8471397	0.773061	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8471522	0.796723	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8472811	0.605216	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8472977	0.780573	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8472983	0.782759	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473004	0.766211	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473009	0.773115	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473040	0.768467	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473066	0.772911	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473075	0.771172	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473115	0.698095	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8473117	0.701991	Improved vs Wild	green	Glyma.08G110200.1	CDS
8	8546690	0.626459	Improved vs Wild	green	Glyma.08G111100.1	CDS
8	8550815	0.626137	Improved vs Wild	green	Glyma.08G111100.1	CDS
8	8552406	0.642793	Improved vs Wild	green	Glyma.08G111100.1	CDS
8	8606073	0.661364	Improved vs Wild	green	Glyma.08G111700.1	CDS
8	8610122	0.78105	Improved vs Wild	green	Glyma.08G111800.1	CDS
8	8615781	0.675509	Improved vs Wild	green	Glyma.08G111900.1	CDS
8	8648622	0.656067	Improved vs Wild	green	Glyma.08G112300.1	CDS

8	8661940	0.713429	Improved vs Wild	green	Glyma.08G112600.1	CDS
8	8661946	0.718593	Improved vs Wild	green	Glyma.08G112600.1	CDS
8	8662477	0.707193	Improved vs Wild	green	Glyma.08G112600.1	CDS
8	8661143	0.797678	Improved vs Wild	green	Glyma.08G112700.1	CDS
8	8678906	0.72545	Improved vs Wild	green	Glyma.08G113000.1	CDS
8	8739303	0.684753	Improved vs Wild	green	Glyma.08G114000.1	CDS
8	8739636	0.64215	Improved vs Wild	green	Glyma.08G114000.1	CDS
8	8744985	0.607045	Improved vs Wild	green	Glyma.08G114200.1	CDS
8	8746687	0.643615	Improved vs Wild	green	Glyma.08G114300.1	CDS
8	8746838	0.624255	Improved vs Wild	green	Glyma.08G114300.1	CDS
8	8759497	0.620809	Improved vs Wild	green	Glyma.08G114500.1	CDS
8	8850945	0.707149	Improved vs Wild	green	Glyma.08G115400.1	CDS
8	8873940	0.625255	Landrace vs Wild	red	Glyma.08G115700.1	CDS
8	8873940	0.726452	Improved vs Wild	green	Glyma.08G115700.1	CDS
8	8931014	0.661576	Improved vs Wild	green	Glyma.08G116200.1	CDS
8	8948320	0.774852	Improved vs Wild	green	Glyma.08G116400.1	CDS
8	8963124	0.619439	Improved vs Wild	green	Glyma.08G116500.1	CDS
8	8971374	0.61144	Improved vs Wild	green	Glyma.08G116600.1	CDS
8	9015180	0.646357	Improved vs Wild	green	Glyma.08G116900.1	CDS

8	9022697	0.691185	Improved vs Wild	green	Glyma.08G117000.1	CDS
8	9034918	0.772943	Improved vs Wild	green	Glyma.08G117100.1	CDS
8	9049801	0.798719	Improved vs Wild	green	Glyma.08G117300.1	CDS
8	9054524	0.729503	Improved vs Wild	green	Glyma.08G117400.1	CDS
8	9054741	0.782643	Improved vs Wild	green	Glyma.08G117400.1	CDS
8	9054872	0.759576	Improved vs Wild	green	Glyma.08G117400.1	CDS
8	9056324	0.768285	Improved vs Wild	green	Glyma.08G117400.1	CDS
8	9074920	0.691937	Improved vs Wild	green	Glyma.08G117600.1	CDS
8	9195879	0.803078	Landrace vs Wild	red	Glyma.08G119200.1	CDS
8	9195880	0.803078	Landrace vs Wild	red	Glyma.08G119200.1	CDS
8	9195879	0.936319	Improved vs Wild	green	Glyma.08G119200.1	CDS
8	9195880	0.936319	Improved vs Wild	green	Glyma.08G119200.1	CDS
8	9207039	0.726924	Improved vs Wild	green	Glyma.08G119400.1	CDS
8	9207090	0.700538	Improved vs Wild	green	Glyma.08G119400.1	CDS
8	9220290	0.786484	Improved vs Wild	green	Glyma.08G119700.1	CDS
8	9220787	0.810184	Improved vs Wild	green	Glyma.08G119700.1	CDS
8	9255753	0.689406	Improved vs Wild	green	Glyma.08G120100.1	CDS
8	9282022	0.648874	Improved vs Wild	green	Glyma.08G120400.1	CDS
8	9332121	0.664139	Improved vs Wild	green	Glyma.08G120800.1	CDS

8	9502316	0.769529	Improved vs Wild	green	Glyma.08G123500.1	CDS
8	9526715	0.699138	Improved vs Wild	green	Glyma.08G124100.1	CDS
8	9526730	0.712026	Improved vs Wild	green	Glyma.08G124100.1	CDS
8	9675139	0.680605	Landrace vs Wild	red	Glyma.08G125700.1	CDS
8	9675187	0.6686	Landrace vs Wild	red	Glyma.08G125700.1	CDS
8	9675058	0.624407	Improved vs Wild	green	Glyma.08G125700.1	CDS
8	9891590	0.730776	Improved vs Wild	green	Glyma.08G128300.1	CDS
8	9905369	0.726577	Improved vs Wild	green	Glyma.08G128500.1	CDS
8	9909005	0.772189	Improved vs Wild	green	Glyma.08G128600.1	CDS
8	9909193	0.756864	Improved vs Wild	green	Glyma.08G128600.1	CDS
8	9909271	0.73944	Improved vs Wild	green	Glyma.08G128600.1	CDS
8	9930277	0.617314	Improved vs Wild	green	Glyma.08G128900.1	CDS
8	9957906	0.786399	Improved vs Wild	green	Glyma.08G129300.1	CDS
8	9957944	0.785173	Improved vs Wild	green	Glyma.08G129300.1	CDS
8	9958064	0.732777	Improved vs Wild	green	Glyma.08G129300.1	CDS
8	10021960	0.620781	Improved vs Wild	green	Glyma.08G130500.1	CDS
8	10023493	0.75427	Improved vs Wild	green	Glyma.08G130500.1	CDS
8	10029124	0.798466	Improved vs Wild	green	Glyma.08G130600.1	CDS
8	10073881	0.761966	Improved vs Wild	green	Glyma.08G131400.1	CDS

8	10085363	0.791507	Improved vs Wild	green	Glyma.08G131600.1	CDS
8	10147214	0.763841	Improved vs Wild	green	Glyma.08G132400.1	CDS
8	10166338	0.780653	Improved vs Wild	green	Glyma.08G132700.1	CDS
8	10182045	0.614303	Improved vs Wild	green	Glyma.08G132800.1	CDS
8	10246027	0.715123	Improved vs Wild	green	Glyma.08G133500.1	CDS
8	10308599	0.771489	Improved vs Wild	green	Glyma.08G134500.1	CDS
8	10342261	0.641976	Improved vs Wild	green	Glyma.08G134800.1	CDS
8	10463176	0.607059	Landrace vs Wild	red	Glyma.08G136800.1	CDS
8	10564458	0.674422	Landrace vs Wild	red	Glyma.08G137700.1	CDS
8	10564416	0.763503	Improved vs Wild	green	Glyma.08G137700.1	CDS
8	10564458	0.649998	Improved vs Wild	green	Glyma.08G137700.1	CDS
8	10576771	0.620491	Improved vs Wild	green	Glyma.08G137800.1	CDS
8	10566873	0.686597	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10567098	0.677191	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10567162	0.653347	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10567397	0.671834	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10569806	0.601295	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10569964	0.6688	Improved vs Wild	green	Glyma.08G137900.1	CDS
8	10570513	0.602066	Improved vs Wild	green	Glyma.08G137900.1	CDS

8	10596477	0.66201	Landrace vs Wild	red	Glyma.08G138200.1	CDS
8	10596518	0.689353	Landrace vs Wild	red	Glyma.08G138200.1	CDS
8	10596089	0.653289	Improved vs Wild	green	Glyma.08G138200.1	CDS
8	10596477	0.630557	Improved vs Wild	green	Glyma.08G138200.1	CDS
8	10596518	0.654	Improved vs Wild	green	Glyma.08G138200.1	CDS
8	10659800	0.722629	Landrace vs Wild	red	Glyma.08G139300.1	CDS
8	10659800	0.697099	Improved vs Wild	green	Glyma.08G139300.1	CDS
8	10673211	0.661514	Improved vs Wild	green	Glyma.08G139400.1	CDS
8	10673215	0.686374	Improved vs Wild	green	Glyma.08G139400.1	CDS
8	10674788	0.6546	Improved vs Wild	green	Glyma.08G139400.1	CDS
8	10682047	0.630766	Landrace vs Wild	red	Glyma.08G139500.1	CDS
8	10689332	0.601323	Landrace vs Wild	red	Glyma.08G139600.1	CDS
8	10689483	0.644035	Landrace vs Wild	red	Glyma.08G139600.1	CDS
8	10689596	0.625353	Landrace vs Wild	red	Glyma.08G139600.1	CDS
8	10689483	0.606276	Improved vs Wild	green	Glyma.08G139600.1	CDS
8	10744344	0.631267	Improved vs Wild	green	Glyma.08G140400.1	CDS
8	10744452	0.606614	Improved vs Wild	green	Glyma.08G140400.1	CDS
8	10748448	0.617413	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10748489	0.626168	Improved vs Wild	green	Glyma.08G140500.1	CDS

8	10748608	0.6568	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10748641	0.646076	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10748669	0.637603	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10748731	0.632318	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10749039	0.632378	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10749040	0.631705	Improved vs Wild	green	Glyma.08G140500.1	CDS
8	10757869	0.779467	Landrace vs Wild	red	Glyma.08G140700.1	CDS
8	10757869	0.755382	Improved vs Wild	green	Glyma.08G140700.1	CDS
9	45665511	0.726248	Landrace vs Wild	red	Glyma.09G234200.1	CDS
9	45665511	0.702752	Improved vs Wild	green	Glyma.09G234200.1	CDS
9	46080923	0.646643	Landrace vs Wild	red	Glyma.09G238400.1	CDS
9	46080923	0.618762	Improved vs Wild	green	Glyma.09G238400.1	CDS
9	46378970	0.654261	Landrace vs Wild	red	Glyma.09G241500.1	CDS
9	46431646	0.723235	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46431706	0.710859	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46431802	0.728787	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46432178	0.658526	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46432469	0.720485	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46434855	0.748414	Landrace vs Wild	red	Glyma.09G242200.1	CDS

9	46435507	0.665279	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46442046	0.732805	Landrace vs Wild	red	Glyma.09G242200.1	CDS
9	46431646	0.679691	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46431706	0.667629	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46431802	0.695451	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46432178	0.618151	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46432469	0.688126	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46434855	0.713307	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46435507	0.633537	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46442046	0.661372	Improved vs Wild	green	Glyma.09G242200.1	CDS
9	46525406	0.698171	Landrace vs Wild	red	Glyma.09G242900.1	CDS
9	46525406	0.649143	Improved vs Wild	green	Glyma.09G242900.1	CDS
9	46623186	0.668964	Landrace vs Wild	red	Glyma.09G243600.1	CDS
9	46624402	0.700728	Landrace vs Wild	red	Glyma.09G243600.1	CDS
9	46624610	0.671692	Landrace vs Wild	red	Glyma.09G243600.1	CDS
9	46625100	0.615927	Landrace vs Wild	red	Glyma.09G243600.1	CDS
9	46623186	0.619189	Improved vs Wild	green	Glyma.09G243600.1	CDS
9	46624402	0.647235	Improved vs Wild	green	Glyma.09G243600.1	CDS
9	46624610	0.623745	Improved vs Wild	green	Glyma.09G243600.1	CDS

9	46625050	0.635262	Improved vs Wild	green	Glyma.09G243600.1	CDS
9	46727371	0.675861	Improved vs Wild	green	Glyma.09G245000.1	CDS
9	46792804	0.689663	Landrace vs Wild	red	Glyma.09G246000.1	CDS
9	46792804	0.750335	Improved vs Wild	green	Glyma.09G246000.1	CDS
9	46985797	0.644531	Improved vs Wild	green	Glyma.09G248600.1	CDS
9	47101780	0.603502	Improved vs Wild	green	Glyma.09G250100.1	CDS
9	47316582	0.611638	Landrace vs Wild	red	Glyma.09G253300.1	CDS
9	47316591	0.619852	Landrace vs Wild	red	Glyma.09G253300.1	CDS
9	47316596	0.613664	Landrace vs Wild	red	Glyma.09G253300.1	CDS
9	47316598	0.613257	Landrace vs Wild	red	Glyma.09G253300.1	CDS
9	47316601	0.608084	Landrace vs Wild	red	Glyma.09G253300.1	CDS
9	47316591	0.60136	Improved vs Wild	green	Glyma.09G253300.1	CDS
9	47357513	0.697257	Landrace vs Wild	red	Glyma.09G253800.1	CDS
9	47357545	0.732161	Landrace vs Wild	red	Glyma.09G253800.1	CDS
9	47357513	0.676801	Improved vs Wild	green	Glyma.09G253800.1	CDS
9	47357545	0.722435	Improved vs Wild	green	Glyma.09G253800.1	CDS
9	47361110	0.638628	Landrace vs Wild	red	Glyma.09G253900.1	CDS
9	47361110	0.606034	Improved vs Wild	green	Glyma.09G253900.1	CDS
9	47374773	0.629655	Landrace vs Wild	red	Glyma.09G254200.1	CDS

9	47374974	0.816888	Landrace vs Wild	red	Glyma.09G254200.1	CDS
9	47374773	0.643822	Improved vs Wild	green	Glyma.09G254200.1	CDS
9	47374974	0.793118	Improved vs Wild	green	Glyma.09G254200.1	CDS
9	47409794	0.655522	Landrace vs Wild	red	Glyma.09G254900.1	CDS
9	47409794	0.62515	Improved vs Wild	green	Glyma.09G254900.1	CDS
9	47562629	0.68258	Landrace vs Wild	red	Glyma.09G256500.1	CDS
9	47562667	0.652987	Landrace vs Wild	red	Glyma.09G256500.1	CDS
9	47562984	0.664258	Landrace vs Wild	red	Glyma.09G256500.1	CDS
9	47563212	0.672471	Landrace vs Wild	red	Glyma.09G256500.1	CDS
9	47562629	0.770895	Improved vs Wild	green	Glyma.09G256500.1	CDS
9	47562667	0.75294	Improved vs Wild	green	Glyma.09G256500.1	CDS
9	47562984	0.749318	Improved vs Wild	green	Glyma.09G256500.1	CDS
9	47563212	0.741504	Improved vs Wild	green	Glyma.09G256500.1	CDS
9	47564883	0.663143	Landrace vs Wild	red	Glyma.09G256600.1	CDS
9	47564883	0.748247	Improved vs Wild	green	Glyma.09G256600.1	CDS
9	47613176	0.646564	Landrace vs Wild	red	Glyma.09G257000.1	CDS
9	47613176	0.613973	Improved vs Wild	green	Glyma.09G257000.1	CDS
9	47629082	0.602875	Landrace vs Wild	red	Glyma.09G257200.1	CDS
9	47769771	0.689121	Landrace vs Wild	red	Glyma.09G259100.1	CDS

Stable 8. The pathways involved by DEGs responsible for seed-coat colors.

KEGG	DEG ID
09100 Metabolism (36)	
09101 Carbohydrate metabolism	
00010 Glycolysis / Gluconeogenesis [PATH:ko00010]	
K01785 galM, GALM; aldose 1-epimerase [EC:5.1.3.3]	Glyma.06G191500
00030 Pentose phosphate pathway [PATH:ko00030]	
K00036 G6PD, zwf; glucose-6-phosphate 1-dehydrogenase [EC:1.1.1.49 1.1.1.363]	Glyma.07G013800
00051 Fructose and mannose metabolism [PATH:ko00051]	
K00966 GMPP; mannose-1-phosphate guanylyltransferase [EC:2.7.7.13]	Glyma.06G186400
00052 Galactose metabolism [PATH:ko00052]	
K01785 galM, GALM; aldose 1-epimerase [EC:5.1.3.3]	Glyma.06G191500
K06617 E2.4.1.82; raffinose synthase [EC:2.4.1.82]	Glyma.06G179200
00053 Ascorbate and aldarate metabolism [PATH:ko00053]	
K00469 MIOX; inositol oxygenase [EC:1.13.99.1]	Glyma.07G013900
K08679 GAE, cap1J; UDP-glucuronate 4-epimerase [EC:5.1.3.6]	Glyma.08G109100
00500 Starch and sucrose metabolism [PATH:ko00500]	
K16055 TPS; trehalose 6-phosphate synthase/phosphatase [EC:2.4.1.15 3.1.3.12]	Glyma.04G180900
00520 Amino sugar and nucleotide sugar metabolism [PATH:ko00520]	
K08679 GAE, cap1J; UDP-glucuronate 4-epimerase [EC:5.1.3.6]	Glyma.08G109100
K00966 GMPP; mannose-1-phosphate guanylyltransferase [EC:2.7.7.13]	Glyma.06G186400
00630 Glyoxylate and dicarboxylate metabolism [PATH:ko00630]	
K11517 HAO; (S)-2-hydroxy-acid oxidase [EC:1.1.3.15]	Glyma.08G096600
00562 Inositol phosphate metabolism [PATH:ko00562]	
09102 Energy metabolism	
00195 Photosynthesis [PATH:ko00195]	
K02695 psaH; photosystem I subunit VI	Glyma.07G019700

K02699 psaL; photosystem I subunit XI	Glyma.09G250800
K02639 petF; ferredoxin	Glyma.08G126800
00196 Photosynthesis - antenna proteins [PATH:ko00196]	
K08910 LHCA4; light-harvesting complex I chlorophyll a/b binding protein 4	Glyma.04G167900
	Glyma.06G194900
K08912 LHCB1; light-harvesting complex II chlorophyll a/b binding protein 1	Glyma.08G082900
00680 Methane metabolism [PATH:ko00680]	
K00058 serA, PHGDH; D-3-phosphoglycerate dehydrogenase / 2-oxoglutarate reductase [EC:1.1.1.95 1.1.1.399]	Glyma.07G003400
00920 Sulfur metabolism [PATH:ko00920]	
K13034 ATCYSC1; L-3-cyanoalanine synthase/ cysteine synthase [EC:2.5.1.47 4.4.1.9]	Glyma.09G258000
K17285 SELENBP1; methanethiol oxidase [EC:1.8.3.4]	Glyma.08G108000

09103 Lipid metabolism

00061 Fatty acid biosynthesis [PATH:ko00061]	
K18660 ACSF3; malonyl-CoA/methylmalonyl-CoA synthetase [EC:6.2.1.76 6.2.1.-]	Glyma.07G019100
00073 Cutin, suberine and wax biosynthesis [PATH:ko00073]	
K15403 ACE, HTH; fatty acid omega-hydroxy dehydrogenase [EC:1.1.1.-]	Glyma.07G009900
00564 Glycerophospholipid metabolism [PATH:ko00564]	
K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]	Glyma.07G010900
K16818 DAD1; phospholipase A1 [EC:3.1.1.32]	Glyma.09G243100
00565 Ether lipid metabolism [PATH:ko00565]	
K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]	Glyma.07G010900
00591 Linoleic acid metabolism [PATH:ko00591]	
K15718 LOX1_5; linoleate 9S-lipoxygenase [EC:1.13.11.58]	Glyma.07G006900
	Glyma.07G007000
K00454 LOX2S; lipoxygenase [EC:1.13.11.12]	Glyma.08G102900
00592 alpha-Linolenic acid metabolism [PATH:ko00592]	
K16818 DAD1; phospholipase A1 [EC:3.1.1.32]	Glyma.09G243100

K00454 LOX2S; lipoxygenase [EC:1.13.11.12] Glyma.08G102900

09105 Amino acid metabolism

00250 Alanine, aspartate and glutamate metabolism [PATH:ko00250]

K00827 AGXT2; alanine-glyoxylate transaminase / (R)-3-amino-2-methylpropionate-pyruvate transaminase [EC:2.6.1.44 2.6.1.40] Glyma.08G140200

00260 Glycine, serine and threonine metabolism [PATH:ko00260]

K00058 serA, PHGDH; D-3-phosphoglycerate dehydrogenase / 2-oxoglutarate reductase [EC:1.1.1.95 1.1.1.399] Glyma.07G003400

K00827 AGXT2; alanine-glyoxylate transaminase / (R)-3-amino-2-methylpropionate-pyruvate transaminase [EC:2.6.1.44 2.6.1.40] Glyma.08G140200

00270 Cysteine and methionine metabolism [PATH:ko00270]

K13034 ATCYSC1; L-3-cyanoalanine synthase/ cysteine synthase [EC:2.5.1.47 4.4.1.9] Glyma.09G258000

K00827 AGXT2; alanine-glyoxylate transaminase / (R)-3-amino-2-methylpropionate-pyruvate transaminase [EC:2.6.1.44 2.6.1.40] Glyma.08G140200

K00058 serA, PHGDH; D-3-phosphoglycerate dehydrogenase / 2-oxoglutarate reductase [EC:1.1.1.95 1.1.1.399] Glyma.07G003400

00280 Valine, leucine and isoleucine degradation [PATH:ko00280]

K18660 ACSF3; malonyl-CoA/methylmalonyl-CoA synthetase [EC:6.2.1.76 6.2.1.-] Glyma.07G019100

K00827 AGXT2; alanine-glyoxylate transaminase / (R)-3-amino-2-methylpropionate-pyruvate transaminase [EC:2.6.1.44 2.6.1.40] Glyma.08G140200

00330 Arginine and proline metabolism [PATH:ko00330]

K01426 E3.5.1.4, amiE; amidase [EC:3.5.1.4] Glyma.08G106000

00360 Phenylalanine metabolism [PATH:ko00360]

K01426 E3.5.1.4, amiE; amidase [EC:3.5.1.4] Glyma.08G106000

00380 Tryptophan metabolism [PATH:ko00380]

K01426 E3.5.1.4, amiE; amidase [EC:3.5.1.4] Glyma.08G106000

09106 Metabolism of other amino acids

00460 Cyanoamino acid metabolism [PATH:ko00460]

K13034 ATCYSC1; L-3-cyanoalanine synthase/ cysteine synthase [EC:2.5.1.47 4.4.1.9] Glyma.09G258000

00480 Glutathione metabolism [PATH:ko00480]

K00036 G6PD, zwf; glucose-6-phosphate 1-dehydrogenase [EC:1.1.1.49 1.1.1.363]	Glyma.07G013800
K11188 PRDX6; peroxiredoxin 6 [EC:1.11.1.7 1.11.1.27 3.1.1.-]	Glyma.08G088000

09107 Glycan biosynthesis and metabolism

00541 O-Antigen nucleotide sugar biosynthesis [PATH:ko00541]	
K08679 GAE, cap1J; UDP-glucuronate 4-epimerase [EC:5.1.3.6]	Glyma.08G109100

09109 Metabolism of terpenoids and polyketides

00909 Sesquiterpenoid and triterpenoid biosynthesis [PATH:ko00909]	
K15813 LUP4; beta-amyrin synthase [EC:5.4.99.39]	Glyma.07G001300
00904 Diterpenoid biosynthesis [PATH:ko00904]	
K04125 GA2ox; gibberellin 2beta-dioxygenase [EC:1.14.11.13]	Glyma.08G085400

09110 Biosynthesis of other secondary metabolites

00940 Phenylpropanoid biosynthesis [PATH:ko00940]	
K11188 PRDX6; peroxiredoxin 6 [EC:1.11.1.7 1.11.1.27 3.1.1.-]	Glyma.08G088000
00941 Flavonoid biosynthesis [PATH:ko00941]	
K00660 CHS; chalcone synthase [EC:2.3.1.74]	Glyma.08G109200
	Glyma.08G109500
	Glyma.08G110400
	Glyma.08G110500
	Glyma.08G110700
K05280 CYP75B1; flavonoid 3'-monooxygenase [EC:1.14.14.82]	Glyma.06G202300

09111 Xenobiotics biodegradation and metabolism

00627 Aminobenzoate degradation [PATH:ko00627]	
K01426 E3.5.1.4, amiE; amidase [EC:3.5.1.4]	Glyma.08G106000
00643 Styrene degradation [PATH:ko00643]	
K01426 E3.5.1.4, amiE; amidase [EC:3.5.1.4]	Glyma.08G106000

09130 Environmental Information Processing

09131 Membrane transport

02010 ABC transporters [PATH:ko02010]

K08711 PDR, CDR1; ATP-binding cassette, subfamily G (WHITE), member 2, PDR

Glyma.07G015800

09132 Signal transduction

04014 Ras signaling pathway [PATH:ko04014]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04072 Phospholipase D signaling pathway [PATH:ko04072]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04071 Sphingolipid signaling pathway [PATH:ko04071]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04024 cAMP signaling pathway [PATH:ko04024]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04075 Plant hormone signal transduction [PATH:ko04075]

K14494 DELLA; DELLA protein

Glyma.08G095800

K14431 TGA; transcription factor TGA

Glyma.08G140100

09140 Cellular Processes

09141 Transport and catabolism

04144 Endocytosis [PATH:ko04144]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04146 Peroxisome [PATH:ko04146]

K11517 HAO; (S)-2-hydroxy-acid oxidase [EC:1.1.3.15]

Glyma.08G096600

09150 Organismal Systems

09151 Immune system

04666 Fc gamma R-mediated phagocytosis [PATH:ko04666]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

09152 Endocrine system

04912 GnRH signaling pathway [PATH:ko04912]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

04928 Parathyroid hormone synthesis, secretion and action [PATH:ko04928]

K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]

Glyma.07G010900

09155 Excretory system

04962 Vasopressin-regulated water reabsorption [PATH:ko04962]

K12462 ARHGDI, RHOGDI; Rho GDP-dissociation inhibitor

Glyma.08G105700

09159 Environmental adaptation

04712 Circadian rhythm - plant [PATH:ko04712]

K00660 CHS; chalcone synthase [EC:2.3.1.74]

Glyma.08G109200

Glyma.08G109500

Glyma.08G110400

Glyma.08G110500

Glyma.08G110700

04626 Plant-pathogen interaction [PATH:ko04626]

K18875 EDS1; enhanced disease susceptibility 1 protein

Glyma.06G187200

K18835 WRKY2; WRKY transcription factor 2

Glyma.09G250500

09180 Brite Hierarchies

09181 Protein families: metabolism

01002 Peptidases and inhibitors [BR:ko01002]

K03798 ftsH, hflB; cell division protease FtsH [EC:3.4.24.-]

Glyma.08G086600

K16296 SCPL-I; serine carboxypeptidase-like clade I [EC:3.4.16.-]

Glyma.09G249500

01003 Glycosyltransferases [BR:ko01003]

K10999 CESA; cellulose synthase A [EC:2.4.1.12]

Glyma.08G117500

K13681 FUT; xyloglucan fucosyltransferase [EC:2.4.1.-]

Glyma.07G022300

Glyma.07G022400

K20891 GLCAT14; beta-glucuronosyltransferase [EC:2.4.1.-]

Glyma.09G241300

K23280 RRT; rhamnogalacturonan I rhamnosyltransferase
[EC:2.4.1.351]

Glyma.06G206600

K16055 TPS; trehalose 6-phosphate synthase/phosphatase
[EC:2.4.1.15 3.1.3.12]

Glyma.04G180900

01008 Polyketide biosynthesis proteins [BR:ko01008]

K00660 CHS; chalcone synthase [EC:2.3.1.74]	Glyma.08G109200
	Glyma.08G109500
	Glyma.08G110400
	Glyma.08G110500
	Glyma.08G110700

01007 Amino acid related enzymes [BR:ko01007]

K00827 AGXT2; alanine-glyoxylate transaminase / (R)-3-amino-2-methylpropionate-pyruvate transaminase [EC:2.6.1.44 2.6.1.40]	Glyma.08G140200
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00199 Cytochrome P450 [BR:ko00199]

K05280 CYP75B1; flavonoid 3'-monooxygenase [EC:1.14.14.82]	Glyma.06G202300
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K20562 CYP736A; biphenyl-4-hydroxylase	Glyma.08G140600
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00194 Photosynthesis proteins [BR:ko00194]

K02699 psaL; photosystem I subunit XI	Glyma.09G250800
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K02695 psaH; photosystem I subunit VI	Glyma.07G019700
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K02639 petF; ferredoxin	Glyma.08G126800
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K08910 LHCA4; light-harvesting complex I chlorophyll a/b binding protein 4	Glyma.04G167900
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Glyma.06G194900

K08912 LHCB1; light-harvesting complex II chlorophyll a/b binding protein 1	Glyma.08G082900
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09182 Protein families: genetic information processing

03000 Transcription factors [BR:ko03000]

K14431 TGA; transcription factor TGA	Glyma.08G140100
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K09338 HD-ZIP; homeobox-leucine zipper protein	Glyma.09G241800
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K09422 MYBP; transcription factor MYB, plant	Glyma.04G170100
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Glyma.06G195600

Glyma.09G235100

K09286 EREBP; EREBP-like factor	Glyma.09G233800
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K18835 WRKY2; WRKY transcription factor 2	Glyma.09G250500
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03110 Chaperones and folding catalysts [BR:ko03110]

K09510 DNAJB4; DnaJ homolog subfamily B member 4	Glyma.04G175100
K03798 ftsH, hflB; cell division protease FtsH [EC:3.4.24.-]	Glyma.08G086600
04131 Membrane trafficking [BR:ko04131]	
K01115 PLD1_2; phospholipase D1/2 [EC:3.1.4.4]	Glyma.07G010900
03036 Chromosome and associated proteins [BR:ko03036]	
K10436 MAPRE; microtubule-associated protein, RP/EB family	Glyma.04G171300
03029 Mitochondrial biogenesis [BR:ko03029]	
K17785 IMMT, MIC60; MICOS complex subunit MIC60	Glyma.08G139400

09183 Protein families: signaling and cellular processes

02000 Transporters [BR:ko02000]	
K08711 PDR, CDR1; ATP-binding cassette, subfamily G (WHITE), member 2, PDR	Glyma.07G015800
K15015 SLC32A, VGAT; solute carrier family 32 (vesicular inhibitory amino acid transporter)	Glyma.09G257300
K09873 TIP; aquaporin TIP	Glyma.07G018000
K17471 SULTR3; sulfate transporter 3	Glyma.07G006500
K23025 AVP; H ⁺ -translocating diphosphatase [EC:7.1.3.1]	Glyma.07G001500
04812 Cytoskeleton proteins [BR:ko04812]	
K10436 MAPRE; microtubule-associated protein, RP/EB family	Glyma.04G171300
04147 Exosome [BR:ko04147]	
K12462 ARHGDI, RHOGDI; Rho GDP-dissociation inhibitor	Glyma.08G105700
K17285 SELENBP1; methanethiol oxidase [EC:1.8.3.4]	Glyma.08G108000
K00058 serA, PHGDH; D-3-phosphoglycerate dehydrogenase / 2-oxoglutarate reductase [EC:1.1.1.95 1.1.1.399]	Glyma.07G003400
K00036 G6PD, zwf; glucose-6-phosphate 1-dehydrogenase [EC:1.1.1.49 1.1.1.363]	Glyma.07G013800

09191 Unclassified: metabolism

99980 Enzymes with EC numbers	
K03377 CASD1; N-acetylneuraminate 9-O-acetyltransferase [EC:2.3.1.45]	Glyma.08G082500
K08235 E2.4.1.207; xyloglucan:xyloglucosyl transferase [EC:2.4.1.207]	Glyma.08G107300
K01802 E5.2.1.8; peptidylprolyl isomerase [EC:5.2.1.8]	Glyma.08G089700

K01531 mgtA, mgtB; P-type Mg^{2+} transporter [EC:7.2.2.14]

Glyma.08G132600

99981 Carbohydrate metabolism

K20628 exlX; expansin

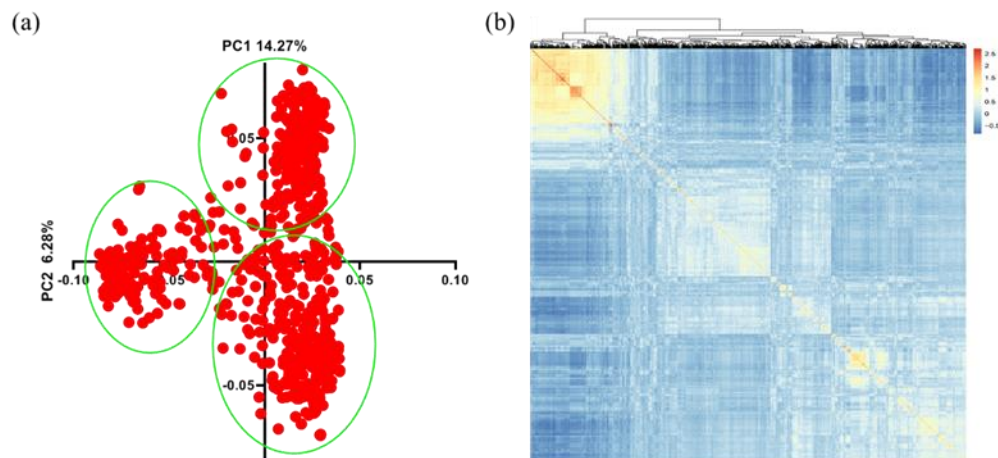
Glyma.09G236200

99983 Lipid metabolism

K19365 BSCL2; seipin

Glyma.09G250400

Supplementary figures



Sfigure 1 Population structure and kinship

(a) Plot showing the cluster distribution based on the top two principal components of PCA analysis; (b) Heatmap of kinship produced with Tassel package v4. The upper left corner of the heatmap showed that small portion of samples are genetic closely related while others in blue are distantly related.