

Table S1 Allele frequencies in each population at each SNP in the significant regions.

rs	chr	pos	all_ref	all_alt	CRS	PYR	FSS	PTV	SAA	ALP
snp47327-scaffold665-1059656	5	34657160	G	A	0.57	0.38	0.58	0.46	0.43	0.49
snp47328-scaffold665-1092095	5	34684354	A	G	0.76	0.68	0.66	0.56	0.55	0.58
snp47329-scaffold665-1139943	5	34732611	A	G	0.62	0.94	0.42	0.43	0.47	0.70
snp47330-scaffold665-1180467	5	34773134	G	A	0.66	0.53	0.89	0.89	0.66	0.90
snp47331-scaffold665-1212741	5	34805339	A	C	0.79	0.85	0.95	0.59	0.78	0.91
snp47332-scaffold665-1270692	5	34863212	A	G	0.67	0.97	0.71	0.72	0.79	0.82
snp47334-scaffold665-1367124	5	34958779	C	A	0.59	0.65	0.55	0.72	0.83	0.64
snp47335-scaffold665-1421492	5	35013574	A	G	0.83	0.21	0.58	0.54	0.61	0.66
snp47336-scaffold665-1477228	5	35068920	A	G	0.52	0.68	0.26	0.80	0.59	0.74
snp47337-scaffold665-1515009	5	35107027	C	A	0.45	0.65	0.58	0.59	0.72	0.60
snp47338-scaffold665-1549358	5	35141299	A	G	0.78	0.94	0.71	0.46	0.71	0.71
snp47339-scaffold665-1615171	5	35207630	A	G	0.60	0.50	0.39	0.67	0.76	0.76
snp47340-scaffold665-1648247	5	35241180	G	A	0.97	0.47	0.84	0.78	0.64	0.83
snp47341-scaffold665-1692641	5	35285608	G	A	0.98	0.38	0.71	0.54	0.74	0.87
snp47343-scaffold665-1779570	5	35372348	A	G	0.52	0.38	0.97	0.56	0.50	0.69
snp47344-scaffold665-1878696	5	35472955	A	G	0.71	0.32	0.66	0.76	0.59	0.89
snp47345-scaffold665-1927526	5	35522167	A	G	0.64	0.68	0.61	0.93	0.80	0.61
snp47346-scaffold665-1983225	5	35578154	A	G	0.83	0.82	0.53	0.74	0.68	0.67
snp16394-scaffold1728-163445	5	35649822	A	G	0.62	0.94	0.66	0.76	0.75	0.59
snp16393-scaffold1728-130761	5	35682230	G	A	0.90	1.00	0.66	0.61	0.78	0.48
snp16392-scaffold1728-92818	5	35721015	A	G	0.81	0.29	0.74	0.61	0.78	0.61
snp16391-scaffold1728-62184	5	35752670	G	A	0.52	0.82	0.58	0.33	0.33	0.56
snp16390-scaffold1728-6620	5	35806889	C	A	0.47	0.32	0.71	0.33	0.80	0.86
snp9039-scaffold1329-19185	5	35833383	G	A	0.53	0.15	0.63	0.50	0.75	0.66
snp9040-scaffold1329-60932	5	35875521	A	G	0.72	0.97	0.87	0.85	0.92	0.94
snp9041-scaffold1329-104354	5	35918660	A	G	0.67	0.32	0.47	0.41	0.55	0.60
snp9042-scaffold1329-135025	5	35949345	A	G	0.52	0.15	0.42	0.67	0.80	0.47
snp9043-scaffold1329-183561	5	35998090	A	G	0.97	1.00	0.95	0.89	0.78	0.83
snp9044-scaffold1329-212363	5	36027951	G	A	0.83	0.97	0.66	0.69	0.68	0.83
snp9045-scaffold1329-244020	5	36059565	G	A	0.29	0.15	0.66	0.59	0.66	0.47
snp9046-scaffold1329-282079	5	36097812	A	G	0.50	0.24	0.50	0.81	0.67	0.46
snp9047-scaffold1329-313566	5	36127811	A	G	0.64	0.56	0.53	0.78	0.64	0.76
snp9050-scaffold1329-418579	5	36233025	A	G	0.69	1.00	0.76	0.67	0.61	0.72
snp9051-scaffold1329-454399	5	36268885	G	A	0.53	0.97	0.37	0.67	0.42	0.49
snp9052-scaffold1329-510083	5	36325701	A	G	0.60	0.97	0.74	0.44	0.57	0.74
snp9053-scaffold1329-559581	5	36375339	G	A	0.72	0.18	0.55	0.80	0.49	0.68
snp9056-scaffold1329-675643	5	36494259	G	A	0.76	0.94	0.84	0.50	0.63	0.80
snp9057-scaffold1329-713250	5	36529333	G	A	0.76	0.09	0.47	0.15	0.70	0.56
snp9062-scaffold1329-936768	5	36750654	A	G	0.66	0.94	0.53	0.69	0.34	0.62
snp9063-scaffold1329-976103	5	36790914	G	A	0.69	0.18	0.18	0.72	0.55	0.64

snp9064-scaffold1329-1026514	5	36842273	A	G	0.53	0.97	0.53	0.43	0.50	0.49
snp9065-scaffold1329-1085677	5	36896097	A	C	0.64	0.97	0.45	0.67	0.82	0.69
snp9066-scaffold1329-1128684	5	36939084	A	G	0.90	0.18	0.68	0.74	0.96	0.97
snp9067-scaffold1329-1169662	5	36980654	G	A	0.98	0.97	0.82	0.91	0.83	0.84
snp26896-scaffold2844-2833	5	37031246	A	G	0.59	0.91	0.71	0.52	0.46	0.62
snp12728-scaffold149-35530	5	37074733	A	G	0.91	0.12	0.76	0.92	0.97	0.81
snp12729-scaffold149-70593	5	37109878	G	A	0.79	0.91	0.66	0.43	0.55	0.51
snp12730-scaffold149-99353	5	37138597	A	G	0.60	0.94	0.64	0.69	0.78	0.71
snp12731-scaffold149-139094	5	37179334	A	G	0.79	1.00	0.61	0.98	0.84	0.76
snp12732-scaffold149-177542	5	37217859	C	A	0.95	0.94	1.00	1.00	0.82	0.86
snp12733-scaffold149-215097	5	37256366	A	G	0.72	0.15	0.97	1.00	0.89	0.83
snp12734-scaffold149-262013	5	37304425	G	A	0.59	0.82	0.47	0.35	0.42	0.39
snp12735-scaffold149-294409	5	37340395	A	G	0.78	0.97	0.95	1.00	0.84	0.97
snp12736-scaffold149-347281	5	37394523	G	A	0.48	0.21	0.68	0.52	0.89	0.58
snp12738-scaffold149-435094	5	37482107	C	A	0.72	0.24	0.61	0.87	0.68	0.83
snp12740-scaffold149-513479	5	37559183	G	A	0.22	0.21	0.55	0.80	0.46	0.86
snp12741-scaffold149-563468	5	37609191	G	A	0.90	0.21	0.87	0.67	0.72	0.82
snp12742-scaffold149-604458	5	37650200	A	G	0.64	0.32	0.89	0.72	0.72	0.58
snp12743-scaffold149-640801	5	37687065	G	A	0.66	0.41	0.76	0.61	0.53	0.66
snp12744-scaffold149-712399	5	37759311	A	G	0.74	0.79	0.84	0.85	0.92	0.84
snp12745-scaffold149-803866	5	37850749	A	C	0.59	0.79	0.66	0.65	0.51	0.58
snp12746-scaffold149-854352	5	37900985	G	A	0.69	0.26	0.53	0.72	0.58	0.36
snp12747-scaffold149-909589	5	37957580	A	G	0.55	0.74	0.61	0.61	0.70	0.50
snp12748-scaffold149-942439	5	37990479	G	A	0.71	0.26	0.58	0.76	0.78	0.62
snp12749-scaffold149-976393	5	38024648	G	A	0.81	1.00	0.92	0.69	0.86	0.99
snp12750-scaffold149-1005378	5	38053632	G	A	0.60	0.85	0.76	0.61	0.70	0.66
snp12753-scaffold149-1131695	5	38181505	A	G	0.69	0.85	0.79	0.72	0.68	0.78
snp12754-scaffold149-1186113	5	38237038	A	G	0.52	0.44	0.87	0.39	0.66	0.62
snp12755-scaffold149-1232069	5	38282676	G	A	0.71	0.32	0.84	0.77	0.55	0.69
snp12756-scaffold149-1263688	5	38314749	A	C	0.43	0.32	0.63	0.50	0.66	0.47
snp12757-scaffold149-1353154	5	38405635	G	A	0.71	0.62	0.47	0.57	0.50	0.63
snp12758-scaffold149-1420103	5	38473200	G	A	0.91	0.71	0.63	0.74	0.89	0.71
snp12759-scaffold149-1454645	5	38507659	A	G	0.74	0.41	0.58	0.70	0.86	0.60
snp12760-scaffold149-1501840	5	38555334	G	A	0.48	0.44	0.71	0.59	0.53	0.77
snp12761-scaffold149-1559579	5	38613742	A	G	0.84	0.50	0.82	0.80	0.66	0.70
snp12762-scaffold149-1606790	5	38661449	G	A	0.91	0.35	0.47	0.63	0.55	0.86
snp12763-scaffold149-1642005	5	38697559	G	A	0.43	0.76	0.42	0.56	0.36	0.74
snp12764-scaffold149-1689060	5	38745455	G	A	0.41	0.76	0.68	0.59	0.74	0.38
snp12765-scaffold149-1733785	5	38790386	G	A	0.84	0.88	0.53	0.56	0.43	0.64
snp12766-scaffold149-1769401	5	38826423	G	A	0.36	0.32	0.34	0.78	0.74	0.58
snp12767-scaffold149-1802042	5	38859095	G	A	0.64	0.85	0.42	0.48	0.50	0.68
snp12768-scaffold149-1830916	5	38887930	A	G	0.78	0.76	0.79	0.78	0.78	0.71
snp12769-scaffold149-1861621	5	38918969	A	G	0.79	0.73	0.84	0.87	0.57	0.82

snp12770-scaffold149-1899629	5	38957154	C	A	0.48	0.35	0.18	0.59	0.54	0.73
snp12771-scaffold149-1929435	5	38986925	G	A	0.72	0.74	0.76	0.83	0.72	0.86
snp12772-scaffold149-1973260	5	39030999	G	A	0.71	0.68	0.87	0.72	0.71	0.81
snp12773-scaffold149-2005010	5	39063039	G	A	0.79	0.82	0.71	0.87	0.82	0.96
snp12775-scaffold149-2083221	5	39142499	G	A	0.40	0.50	0.66	0.61	0.42	0.56
snp12777-scaffold149-2157495	5	39216961	G	A	0.72	0.35	0.71	0.74	0.84	0.68
snp12778-scaffold149-2202933	5	39262766	A	G	0.67	0.68	0.68	0.59	0.62	0.78
snp12779-scaffold149-2247518	5	39306963	C	A	0.69	0.91	0.50	0.52	0.53	0.72
snp12780-scaffold149-2299489	5	39359453	G	A	0.52	0.32	0.76	0.65	0.49	0.66
snp12782-scaffold149-2393437	5	39453455	G	A	0.57	0.68	0.76	0.69	0.57	0.22
snp12783-scaffold149-2431241	5	39492036	G	A	0.78	0.91	0.66	0.87	0.41	0.70
snp12785-scaffold149-2564265	5	39626746	A	G	0.59	0.50	0.89	0.70	0.54	0.51
snp12786-scaffold149-2596451	5	39658953	A	G	0.72	0.47	0.50	0.80	0.36	0.79
snp12787-scaffold149-2640186	5	39697174	G	A	0.62	0.15	0.45	0.70	0.64	0.56
snp12788-scaffold149-2676466	5	39733491	A	G	0.74	0.41	0.82	0.94	0.78	0.58
snp12789-scaffold149-2742417	5	39800450	G	A	0.45	0.35	0.68	0.70	0.50	0.66
snp5577-scaffold1195-1813787	5	40229126	C	A	0.55	0.62	0.61	0.80	0.71	0.74
snp5572-scaffold1195-1636091	5	40409677	A	G	0.36	0.50	0.79	0.72	0.68	0.60
snp5571-scaffold1195-1603944	5	40440965	G	A	0.43	0.21	0.39	0.59	0.62	0.78
snp5561-scaffold1195-1172626	5	40871355	A	G	0.59	0.82	0.24	0.81	0.74	0.93
snp5560-scaffold1195-1131719	5	40912958	A	C	0.53	0.79	0.24	0.81	0.74	0.76
snp5555-scaffold1195-841188	5	41204720	G	A	0.59	0.68	0.55	0.33	0.47	0.46
snp5548-scaffold1195-532765	5	41513932	A	G	0.50	0.65	0.32	0.41	0.37	0.68
snp5546-scaffold1195-428889	5	41619168	G	A	0.53	0.26	0.68	0.50	0.37	0.58
snp5544-scaffold1195-354858	5	41692510	A	C	0.66	0.74	0.55	0.74	0.50	0.62
snp5540-scaffold1195-169549	5	41881428	G	A	0.66	0.44	0.61	0.85	0.88	0.92
snp5539-scaffold1195-140210	5	41910887	A	G	0.78	0.65	0.45	0.35	0.43	0.47
snp5538-scaffold1195-78873	5	41972975	A	G	0.34	0.21	0.55	0.54	0.51	0.70
snp5537-scaffold1195-37628	5	42019896	G	A	0.48	0.50	0.79	0.41	0.62	0.29
snp5536-scaffold1195-7510	5	42050604	G	A	0.72	0.56	0.53	0.78	0.57	0.74
snp57564-scaffold920-14682	5	42073453	A	G	0.71	0.56	1.00	0.94	0.84	0.90
snp57565-scaffold920-49844	5	42108666	A	G	0.52	0.85	0.24	0.76	0.79	0.83
snp57567-scaffold920-124704	5	42183801	A	G	0.64	0.82	0.61	0.80	0.70	0.68
snp57568-scaffold920-170273	5	42229207	G	A	0.84	0.91	0.63	0.83	0.80	0.74
snp57569-scaffold920-203637	5	42262450	A	G	0.62	0.59	0.63	0.57	0.70	0.67
snp57570-scaffold920-233027	5	42292004	C	A	0.52	0.38	0.63	0.63	0.78	0.57
snp57571-scaffold920-266583	5	42325487	A	G	0.62	0.24	0.68	0.74	0.87	0.68
snp57572-scaffold920-314791	5	42374355	A	G	0.62	0.88	0.82	0.41	0.55	0.66
snp57573-scaffold920-345825	5	42405631	G	A	0.76	0.85	0.92	0.74	0.86	0.70
snp57574-scaffold920-386944	5	42446710	A	G	0.52	0.71	0.84	0.48	0.63	0.68
snp57575-scaffold920-434644	5	42494355	G	A	0.72	0.94	0.55	0.76	0.41	0.51
snp57576-scaffold920-486415	5	42546039	A	G	0.43	0.38	0.26	0.76	0.68	0.61
snp33525-scaffold394-26343	5	42592303	A	G	0.55	0.59	0.29	0.46	0.50	0.57

snp33526-scaffold394-54908	5	42621052	A	G	0.62	0.68	0.29	0.39	0.57	0.33
snp33528-scaffold394-148632	5	42715735	A	G	0.45	0.65	0.84	0.78	0.62	0.61
snp33530-scaffold394-244108	5	42811949	A	G	0.67	0.56	0.84	0.57	0.70	0.70
snp33531-scaffold394-285901	5	42854051	G	A	0.90	0.85	1.00	0.98	0.92	0.97
snp33532-scaffold394-314548	5	42882728	A	G	0.66	0.56	0.87	0.72	0.46	0.60
snp33533-scaffold394-368389	5	42936139	G	A	0.81	0.71	0.47	0.65	0.66	0.76
snp33534-scaffold394-434919	5	42994673	A	G	0.63	0.71	0.61	0.56	0.79	0.77
snp33535-scaffold394-475059	5	43034728	A	G	0.19	0.74	0.68	0.46	0.55	0.53
snp33537-scaffold394-564974	5	43125506	A	G	0.62	0.59	0.63	0.72	0.62	0.57
snp33538-scaffold394-599027	5	43159828	G	A	0.72	0.88	0.63	0.93	0.79	0.70
snp33539-scaffold394-641847	5	43205205	G	A	0.43	0.71	0.50	0.63	0.49	0.33
snp33540-scaffold394-688646	5	43252102	A	C	0.64	0.71	0.82	0.63	0.41	0.48
snp33541-scaffold394-725913	5	43289651	A	G	0.67	0.94	0.71	0.65	0.64	0.43
snp33542-scaffold394-770559	5	43334604	A	G	0.57	0.35	0.47	0.52	0.82	0.33
snp33543-scaffold394-802791	5	43366871	G	A	0.62	0.79	0.55	0.72	0.87	0.73
snp33546-scaffold394-896533	5	43460424	G	A	0.67	0.94	0.74	0.91	0.68	0.76
snp33547-scaffold394-931713	5	43495960	G	A	0.38	0.68	0.68	0.91	0.62	0.38
snp33548-scaffold394-966334	5	43530475	G	A	0.76	0.94	0.66	0.52	0.87	0.83
snp33549-scaffold394-1020771	5	43586176	G	A	0.67	0.76	0.71	0.83	0.57	0.61
snp33550-scaffold394-1082301	5	43649515	A	G	0.72	0.74	0.97	0.57	0.86	0.90
snp33551-scaffold394-1139564	5	43706864	C	A	0.47	0.32	0.84	0.52	0.88	0.63
snp33552-scaffold394-1173557	5	43741812	G	A	0.55	0.56	0.53	0.57	0.72	0.83
snp33553-scaffold394-1206836	5	43775395	A	C	0.74	0.76	0.68	0.67	0.37	0.66
snp33554-scaffold394-1268017	5	43836970	A	C	0.72	0.62	0.42	0.50	0.42	0.66
snp33555-scaffold394-1335362	5	43904817	A	G	0.66	0.82	0.74	0.46	0.83	0.58
snp33556-scaffold394-1391886	5	43961620	G	A	0.66	0.88	0.55	0.57	0.34	0.61
snp33557-scaffold394-1421320	5	43991190	A	G	0.48	0.71	0.82	0.65	0.71	0.78
snp33558-scaffold394-1477333	5	44047930	A	G	0.74	0.56	0.66	0.72	0.68	0.57
snp33559-scaffold394-1535623	5	44105912	G	A	0.93	0.88	0.50	0.67	0.75	0.71
snp33560-scaffold394-1567427	5	44136024	G	A	0.79	0.53	0.58	0.59	0.75	0.59
snp33561-scaffold394-1598541	5	44167423	A	G	0.43	0.50	0.42	0.69	0.36	0.42
snp33562-scaffold394-1629149	5	44198081	A	C	0.72	0.71	0.74	0.59	0.53	0.61
snp33563-scaffold394-1671628	5	44240563	A	G	0.81	0.88	0.74	0.54	0.66	0.97
snp33564-scaffold394-1726859	5	44296293	A	C	0.71	0.97	0.76	0.67	0.75	0.54
snp33565-scaffold394-1761309	5	44330727	A	G	0.72	0.68	0.42	0.56	0.34	0.43
snp33566-scaffold394-1793546	5	44362966	A	G	0.29	0.59	0.50	0.50	0.66	0.57
snp33567-scaffold394-1843275	5	44412991	G	A	0.90	0.47	0.82	0.65	0.66	0.68
snp33568-scaffold394-1880131	5	44450304	G	A	0.57	0.68	0.76	0.67	0.50	0.74
snp33569-scaffold394-1918346	5	44489192	A	G	0.48	0.91	0.68	0.89	0.57	0.77
snp33570-scaffold394-1954159	5	44525279	A	G	0.95	0.94	1.00	0.94	0.86	0.61
snp33571-scaffold394-1990500	5	44561354	A	G	0.41	0.68	0.76	0.57	0.49	0.72
snp33572-scaffold394-2026538	5	44597364	G	A	0.64	0.68	0.79	0.61	0.45	0.67
snp33573-scaffold394-2069623	5	44640719	A	G	0.38	0.56	0.50	0.59	0.47	0.66

snp33574-scaffold394-2105639	5	44677030	A	G	0.47	0.59	0.50	0.81	0.62	0.40
snp33575-scaffold394-2136356	5	44707874	A	C	0.47	0.62	0.66	0.61	0.64	0.44
snp33576-scaffold394-2186249	5	44757700	A	G	0.64	0.32	0.39	0.59	0.68	0.37
snp33577-scaffold394-2231546	5	44802335	A	G	0.38	0.82	0.74	0.48	0.42	0.66
snp33578-scaffold394-2273305	5	44844645	A	G	0.69	0.62	0.79	0.74	0.43	0.60
snp33579-scaffold394-2311866	5	44882293	A	G	0.52	0.71	0.53	0.48	0.45	0.86
snp33580-scaffold394-2361728	5	44932677	G	A	0.73	0.41	0.66	0.56	0.36	0.44
snp33581-scaffold394-2393158	5	44964554	G	A	0.57	0.53	0.58	0.61	0.36	0.63
snp33582-scaffold394-2428482	5	45000129	G	A	0.48	0.65	0.21	0.39	0.67	0.57
snp33583-scaffold394-2473852	5	45046543	G	A	0.47	0.41	0.18	0.83	0.66	0.67
snp33584-scaffold394-2504593	5	45077120	G	A	0.55	0.62	0.26	0.83	0.66	0.87
snp33585-scaffold394-2534529	5	45106560	A	G	0.57	0.41	0.50	0.52	0.43	0.46
snp33586-scaffold394-2591423	5	45163607	G	A	0.62	0.71	0.71	0.65	0.57	0.68
snp33587-scaffold394-2648663	5	45221370	A	G	0.79	0.65	0.71	0.59	0.42	0.69
snp33590-scaffold394-2779676	5	45351364	G	A	0.76	0.21	0.47	0.54	0.26	0.74
snp33591-scaffold394-2817260	5	45388715	A	G	0.76	0.88	0.53	0.50	0.64	0.71
snp33592-scaffold394-2858062	5	45430264	A	G	0.52	0.56	0.34	0.54	0.75	0.41
snp33594-scaffold394-2924580	5	45496968	G	A	0.59	0.76	0.71	0.80	0.47	0.76
snp33595-scaffold394-2955482	5	45527741	A	G	0.26	0.38	0.47	0.44	0.86	0.50
snp33597-scaffold394-3041485	5	45613940	A	G	0.69	0.62	0.32	0.35	0.62	0.58
snp33599-scaffold394-3104563	5	45677635	A	G	0.62	0.82	0.97	0.83	0.75	0.56
snp33600-scaffold394-3156465	5	45728657	A	G	0.71	0.56	0.84	0.83	0.70	0.70
snp33602-scaffold394-3249727	5	45822377	C	A	0.86	0.97	0.97	0.48	0.72	0.74
snp33603-scaffold394-3280465	5	45853478	C	A	0.97	0.97	0.82	1.00	1.00	0.94
snp33605-scaffold394-3354784	5	45928164	A	G	0.59	0.76	0.74	0.69	0.45	0.86
snp33606-scaffold394-3398939	5	45972655	A	G	0.90	0.91	0.79	0.80	0.55	0.87
snp33607-scaffold394-3428515	5	46001931	A	C	0.69	0.68	0.34	0.61	0.57	0.68
snp33609-scaffold394-3489400	5	46062685	A	C	0.95	0.97	0.82	0.93	0.88	0.59
snp33610-scaffold394-3519484	5	46093066	C	A	0.79	0.56	0.47	0.44	0.50	0.70
snp33611-scaffold394-3559760	5	46133349	A	G	0.64	0.41	0.39	0.31	0.45	0.67
snp33613-scaffold394-3650425	5	46224110	G	A	0.67	0.62	0.79	0.81	0.37	0.62
snp33614-scaffold394-3679756	5	46253354	A	G	0.84	0.62	0.50	0.65	0.49	0.68
snp23603-scaffold2380-11002	5	46269956	A	G	0.57	0.53	0.82	0.54	0.32	0.50
snp23604-scaffold2380-56406	5	46315078	G	A	0.79	0.44	0.32	0.39	0.45	0.68
snp23605-scaffold2380-91112	5	46349638	G	A	0.64	0.38	0.42	0.72	0.50	0.73
snp23606-scaffold2380-136017	5	46394756	G	A	0.69	0.82	0.34	0.52	0.78	0.70
snp23607-scaffold2380-185632	5	46443907	A	G	0.43	0.29	0.37	0.87	0.36	0.69
snp23608-scaffold2380-223058	5	46480581	A	C	0.69	0.79	0.82	0.54	0.63	0.46
snp19619-scaffold1980-809484	5	46605830	A	G	0.79	0.62	0.55	0.63	0.76	0.50
snp19618-scaffold1980-777113	5	46638381	G	A	0.53	0.32	0.47	0.63	0.59	0.67
snp19617-scaffold1980-729700	5	46685578	A	G	0.52	0.32	0.68	0.43	0.66	0.31
snp19616-scaffold1980-679320	5	46736109	A	G	0.53	0.47	0.37	0.56	0.74	0.73
snp19615-scaffold1980-634136	5	46781744	G	A	0.67	0.65	0.89	0.54	0.82	0.68

snp19613-scaffold1980-566705	5	46849479	A	G	0.69	0.94	0.58	0.65	0.93	0.78
snp19612-scaffold1980-517252	5	46899620	G	A	0.72	0.91	0.92	0.78	0.53	0.91
snp19611-scaffold1980-487633	5	46928745	A	G	0.57	0.65	0.58	0.61	0.80	0.88
snp19610-scaffold1980-453812	5	46962568	A	G	0.97	1.00	0.95	0.98	0.64	0.98
snp19609-scaffold1980-395706	5	47020710	G	A	0.64	0.59	0.61	0.69	0.89	0.80
snp19608-scaffold1980-359119	5	47057328	G	A	0.48	0.53	0.68	0.30	0.66	0.31
snp19607-scaffold1980-295327	5	47121418	G	A	0.66	0.97	0.87	0.59	0.92	0.90
snp19606-scaffold1980-264859	5	47150732	G	A	0.57	0.79	0.61	0.72	0.54	0.83
snp19605-scaffold1980-225263	5	47190231	G	A	0.93	0.97	1.00	0.96	1.00	0.90
snp19604-scaffold1980-177701	5	47237641	G	A	0.34	0.76	0.29	0.80	0.43	0.33
snp19603-scaffold1980-142196	5	47273128	A	G	0.66	0.44	0.71	0.17	0.62	0.80
snp19602-scaffold1980-96480	5	47318932	G	A	0.81	0.91	0.89	1.00	0.46	0.49
snp19601-scaffold1980-36455	5	47379142	G	A	0.86	0.71	0.83	0.85	0.97	0.83
snp37629-scaffold463-5194	5	47420818	G	A	0.90	0.79	0.87	0.85	0.99	0.88
snp37630-scaffold463-64670	5	47480356	G	A	0.53	0.88	0.58	0.65	0.78	0.34
snp37631-scaffold463-103795	5	47519367	C	A	0.60	0.74	0.74	0.83	0.82	0.72
snp37632-scaffold463-182773	5	47598473	A	G	0.67	0.76	0.71	0.67	0.61	0.73
snp37633-scaffold463-212308	5	47628373	G	A	0.34	0.62	0.63	0.91	0.63	0.82
snp37635-scaffold463-291493	5	47708081	A	G	0.53	0.29	0.42	0.63	0.87	0.64
snp37636-scaffold463-349673	5	47768396	G	A	0.78	0.91	0.34	0.91	0.78	0.87
snp37637-scaffold463-397179	5	47814935	G	A	0.40	0.50	0.21	0.87	0.79	0.87
snp37639-scaffold463-478192	5	47892605	G	A	0.93	0.91	0.84	0.78	0.78	1.00
snp37640-scaffold463-531792	5	47946377	A	G	0.57	0.47	0.63	0.57	0.76	0.63
snp37641-scaffold463-576769	5	47991210	G	A	0.67	0.62	0.66	0.63	0.51	0.43
snp37642-scaffold463-608712	5	48023083	A	C	0.62	0.68	0.53	0.15	0.50	0.36
snp37643-scaffold463-637924	5	48051150	A	C	0.43	0.94	0.68	0.78	0.64	0.56
snp37644-scaffold463-676381	5	48087791	A	G	0.59	0.88	0.58	0.80	0.75	0.62
snp37645-scaffold463-746757	5	48158501	G	A	0.95	0.47	0.61	0.85	0.72	0.89
snp37646-scaffold463-791102	5	48203122	A	G	0.62	0.56	0.50	0.80	0.49	0.52
snp37647-scaffold463-835694	5	48247742	G	A	0.78	0.71	0.66	0.26	0.74	0.41
snp37648-scaffold463-888124	5	48300056	A	C	0.36	0.15	0.68	0.61	0.55	0.69
snp37649-scaffold463-925662	5	48337603	A	G	0.48	0.79	0.39	0.43	0.57	0.32
snp40996-scaffold528-920051	5	48351889	G	A	0.48	0.82	0.42	0.63	0.83	0.41
snp40995-scaffold528-876435	5	48395304	G	A	0.60	0.74	0.97	0.70	0.88	0.83
snp40994-scaffold528-832270	5	48439210	C	A	0.81	0.97	0.74	0.67	0.57	0.83
snp40992-scaffold528-736723	5	48535037	A	G	0.91	0.38	0.89	0.70	0.57	0.50
snp40990-scaffold528-613480	5	48658165	A	G	0.67	0.85	0.92	0.94	0.64	0.71
snp40989-scaffold528-565003	5	48707115	A	G	0.72	0.82	0.55	0.89	0.29	0.67
snp40988-scaffold528-515415	5	48757052	G	A	0.91	0.85	0.97	0.98	0.51	0.91
snp40987-scaffold528-477537	5	48795092	A	G	0.41	0.56	0.16	0.61	0.80	0.74
snp40986-scaffold528-422468	5	48849206	C	A	0.67	0.41	0.61	0.74	0.92	0.87
snp40985-scaffold528-351341	5	48920373	A	C	0.62	0.47	0.76	0.50	0.55	0.63
snp40984-scaffold528-311242	5	48960455	A	G	0.86	0.82	0.76	0.87	0.62	0.88

snp40983-scaffold528-261319	5	49010452	G	A	0.69	0.56	0.74	0.37	0.64	0.53
snp40981-scaffold528-192048	5	49080567	A	G	0.55	0.41	0.92	0.52	0.89	0.32
snp40980-scaffold528-138654	5	49134274	A	G	0.41	0.79	0.55	0.48	0.82	0.36
snp40979-scaffold528-108837	5	49163873	G	A	0.52	0.79	0.74	0.33	0.36	0.50
snp40978-scaffold528-56922	5	49216066	A	G	0.76	0.35	0.53	0.35	0.88	0.47
snp40977-scaffold528-25893	5	49246964	A	C	0.50	0.71	0.53	0.87	0.16	0.62
snp21784-scaffold2136-24732	5	49297947	G	A	0.83	0.76	0.61	0.57	0.74	0.67
snp52256-scaffold775-15664	5	49338723	A	G	0.69	0.68	0.26	0.58	0.74	0.43
snp52257-scaffold775-50905	5	49374478	G	A	0.69	0.85	0.61	0.94	0.61	0.53
snp52258-scaffold775-101304	5	49425364	G	A	0.62	0.26	0.55	0.70	0.80	0.82
snp52259-scaffold775-162850	5	49487776	A	G	0.40	0.59	0.58	0.56	0.66	0.49
snp52260-scaffold775-197224	5	49522372	A	G	0.69	0.50	0.37	0.72	0.53	0.59
snp52261-scaffold775-229181	5	49555197	G	A	0.57	0.41	0.24	0.72	0.34	0.59
snp52262-scaffold775-259323	5	49585474	A	C	0.62	0.44	0.89	0.43	0.79	0.44
snp52263-scaffold775-293013	5	49621986	G	A	0.53	0.56	0.18	0.59	0.47	0.59
snp24495-scaffold248-3261177	6	79080590	G	A	0.60	0.88	0.74	0.74	0.49	0.31
snp24496-scaffold248-3307835	6	79128433	G	A	0.45	0.56	0.69	0.67	0.84	0.54
snp24497-scaffold248-3388614	6	79209758	A	G	0.79	0.47	0.63	0.46	0.42	0.53
snp24500-scaffold248-3560265	6	79383570	G	A	0.40	0.32	0.42	0.85	0.49	0.54
snp24502-scaffold248-3650093	6	79474269	G	A	0.54	0.18	0.66	0.73	0.38	0.59
snp24503-scaffold248-3686298	6	79510543	C	A	0.62	0.50	0.76	0.74	0.59	0.84
snp27941-scaffold30-18900	6	79560230	A	G	0.48	0.21	0.50	0.48	0.58	0.78
snp27942-scaffold30-57342	6	79599168	A	G	0.62	0.24	0.55	0.46	0.78	0.81
snp27943-scaffold30-96873	6	79638999	G	A	0.60	0.85	0.50	0.57	0.50	0.21
snp27947-scaffold30-313949	6	79902117	G	A	0.93	0.47	0.87	0.98	0.76	0.57
snp27949-scaffold30-396475	6	79986113	A	G	0.60	0.35	0.71	0.78	0.93	0.26
snp27950-scaffold30-433050	6	80013178	G	A	0.57	0.88	0.39	0.57	0.36	0.92
snp27951-scaffold30-467775	6	80047974	A	G	0.55	0.38	0.50	0.37	0.59	0.62
snp27952-scaffold30-513690	6	80078614	A	G	0.67	0.56	0.53	0.61	0.47	0.87
snp27954-scaffold30-579575	6	80144119	A	G	0.88	1.00	0.76	0.87	0.71	0.98
snp27955-scaffold30-611495	6	80176656	G	A	0.43	0.74	0.58	0.41	0.30	0.87
snp27956-scaffold30-656520	6	80221671	A	G	0.88	0.91	1.00	1.00	0.86	0.63
snp27958-scaffold30-770690	6	80336372	G	A	0.69	0.74	0.66	0.61	0.74	0.82
snp27959-scaffold30-800185	6	80364302	A	G	0.67	0.82	0.76	0.87	0.58	0.61
snp27960-scaffold30-829941	6	80394124	G	A	0.64	1.00	0.95	0.67	0.87	0.59
snp27961-scaffold30-875758	6	80439696	A	G	0.74	0.85	0.82	0.70	0.58	0.89
snp27962-scaffold30-922676	6	80487138	G	A	0.66	0.56	0.84	0.76	0.72	0.73
snp27963-scaffold30-964505	6	80529707	G	A	0.88	0.53	0.76	0.78	0.78	0.64
snp27964-scaffold30-997291	6	80562522	G	A	0.79	0.91	0.87	0.94	0.88	0.47
snp27965-scaffold30-1052995	6	80618495	A	G	0.55	0.88	0.68	0.81	0.55	0.82
snp27966-scaffold30-1100925	6	80666888	C	A	0.43	0.79	0.61	0.44	0.80	0.77
snp27967-scaffold30-1155149	6	80722426	G	A	0.72	0.24	0.84	0.76	0.78	0.67
snp27968-scaffold30-1186994	6	80754509	G	A	0.91	0.91	0.84	0.78	0.74	0.42

snp27970-scaffold30-1302518	6	80871189	A	C	0.84	0.91	0.45	0.74	0.76	0.30
snp27971-scaffold30-1358708	6	80928192	G	A	0.48	0.32	0.26	0.33	0.49	0.68
snp27972-scaffold30-1391368	6	80961227	G	A	1.00	1.00	1.00	1.00	0.88	0.96
snp27973-scaffold30-1429636	6	80999485	G	A	0.84	0.79	0.45	0.65	0.49	0.34
snp27974-scaffold30-1486609	6	81048778	A	G	0.69	0.62	0.58	0.80	0.41	0.70
snp27975-scaffold30-1520030	6	81082870	G	A	0.76	0.91	0.58	0.63	0.42	0.82
snp27976-scaffold30-1556817	6	81119618	A	G	0.97	0.88	0.92	1.00	0.78	0.63
snp27977-scaffold30-1631310	6	81184205	A	G	0.53	0.79	0.61	0.63	0.59	0.76
snp27978-scaffold30-1681648	6	81234324	G	A	0.50	0.26	0.74	0.37	0.79	0.54
snp27979-scaffold30-1742142	6	81296263	A	G	0.76	0.50	0.53	0.69	0.59	0.90
snp27980-scaffold30-1774761	6	81329069	A	G	0.83	0.82	0.82	0.74	0.67	0.62
snp27981-scaffold30-1816357	6	81371444	G	A	0.67	0.59	0.89	0.74	0.76	0.47
snp27983-scaffold30-1894213	6	81446938	A	G	0.47	0.62	0.58	0.70	0.42	0.42
snp27984-scaffold30-1931659	6	81484447	A	G	0.78	0.88	1.00	1.00	0.87	0.73
snp27985-scaffold30-1983092	6	81536933	G	A	0.74	0.91	0.53	0.94	0.58	0.31
snp27986-scaffold30-2051903	6	81605977	A	G	0.67	0.68	0.55	0.83	0.63	0.86
snp27987-scaffold30-2090811	6	81644997	A	G	0.28	0.50	0.71	0.37	0.70	0.29
snp27989-scaffold30-2188717	6	81745070	A	C	0.47	0.79	0.66	0.19	0.47	0.51
snp27990-scaffold30-2241619	6	81804590	G	A	0.48	0.62	0.21	0.67	0.66	0.52
snp27991-scaffold30-2299743	6	81862750	A	C	0.50	0.53	0.34	0.67	0.59	0.66
snp27993-scaffold30-2392105	6	81955680	C	A	0.76	0.76	0.47	0.48	0.62	0.41
snp27994-scaffold30-2430461	6	81996225	G	A	0.71	0.44	0.84	0.98	0.95	0.82
snp27995-scaffold30-2502391	6	82067011	C	A	0.41	0.76	0.61	0.57	0.53	0.67
snp27996-scaffold30-2547438	6	82113901	G	A	0.47	0.71	0.68	0.54	0.36	0.76
snp27997-scaffold30-2622131	6	82190587	G	A	0.74	1.00	0.66	0.48	0.55	0.69
snp27998-scaffold30-2651120	6	82219509	A	G	0.69	0.97	0.66	0.85	0.58	0.89
snp36190-scaffold433-12605	6	82237825	G	A	0.67	0.97	0.66	0.85	0.46	0.89
snp36191-scaffold433-68322	6	82294734	G	A	0.64	0.71	0.53	0.19	0.55	0.26
snp36192-scaffold433-97993	6	82324828	G	A	0.90	1.00	0.83	0.98	0.88	0.98
snp36193-scaffold433-137297	6	82364116	A	G	0.81	0.65	0.58	0.76	0.70	0.61
snp36196-scaffold433-277237	6	82505477	G	A	0.62	0.91	0.66	0.69	0.82	0.83
snp36197-scaffold433-344971	6	82574419	G	A	0.41	0.74	0.83	0.67	0.59	0.36
snp36198-scaffold433-398052	6	82628596	G	A	0.64	0.97	0.84	0.89	0.75	0.86
snp36199-scaffold433-428497	6	82659501	A	G	0.78	0.85	0.97	0.78	0.84	0.50
snp36200-scaffold433-467266	6	82698776	A	G	0.76	0.47	0.97	0.78	0.83	0.50
snp36202-scaffold433-560512	6	82794001	G	A	0.74	0.85	0.82	0.81	0.79	0.52
snp36204-scaffold433-656078	6	82889676	A	G	0.52	0.29	0.66	0.67	0.57	0.73
snp36205-scaffold433-688242	6	82922328	A	G	0.69	0.74	0.61	0.52	0.51	0.40
snp36206-scaffold433-748240	6	82981387	C	A	0.78	0.76	0.71	0.63	0.57	0.77
snp36207-scaffold433-787868	6	83022253	A	G	0.72	0.76	0.63	0.56	0.47	0.73
snp36208-scaffold433-819601	6	83054771	A	G	0.66	0.74	0.61	0.76	0.58	0.26
snp36209-scaffold433-860043	6	83096191	G	A	0.84	0.97	0.76	0.72	0.53	0.90
snp36210-scaffold433-891877	6	83127701	C	A	0.48	0.18	0.42	0.67	0.43	0.70

snp36211-scaffold433-971139	6	83207760	A	G	0.69	0.44	0.47	0.48	0.88	0.11
snp36212-scaffold433-1024144	6	83262034	A	G	0.43	0.74	0.37	0.50	0.63	0.61
snp36213-scaffold433-1053757	6	83291790	A	G	0.66	0.44	0.66	0.65	0.86	0.33
snp36214-scaffold433-1103329	6	83341158	G	A	0.50	0.44	0.42	0.59	0.59	0.66
snp36215-scaffold433-1162426	6	83400683	C	A	0.90	0.53	0.79	0.78	0.78	0.66
snp36216-scaffold433-1192931	6	83432886	A	G	0.95	0.56	0.61	0.78	0.88	0.64
snp36217-scaffold433-1250993	6	83490914	A	G	0.88	1.00	0.97	0.93	0.96	0.99
snp36218-scaffold433-1280540	6	83520224	A	G	0.60	0.24	0.61	0.59	0.78	0.52
snp36219-scaffold433-1310547	6	83550656	C	A	0.67	0.74	0.53	0.59	0.62	0.44
snp36220-scaffold433-1340607	6	83580837	C	A	0.78	0.88	0.66	0.69	0.86	0.59
snp36221-scaffold433-1374323	6	83615137	A	C	0.84	0.97	0.61	0.91	0.58	0.88
snp36222-scaffold433-1408607	6	83649674	A	G	0.48	0.59	0.37	0.56	0.09	0.82
snp36223-scaffold433-1442030	6	83683404	A	G	0.47	0.53	0.66	0.80	0.43	0.54
snp36224-scaffold433-1472222	6	83714029	G	A	0.66	0.91	0.71	0.96	0.75	0.56
snp36225-scaffold433-1504984	6	83747591	G	A	0.50	0.71	0.79	0.59	0.53	0.79
snp36226-scaffold433-1563136	6	83805443	A	G	0.86	0.91	0.89	0.94	0.88	0.61
snp36227-scaffold433-1593977	6	83836718	A	G	0.47	0.15	0.58	0.63	0.51	0.39
snp36228-scaffold433-1673264	6	83917146	G	A	0.95	0.88	0.87	0.98	0.62	0.91
snp36229-scaffold433-1724202	6	83969244	A	G	0.90	0.74	0.87	0.72	0.88	0.59
snp36231-scaffold433-1813258	6	84058441	G	A	0.84	0.41	0.42	0.61	0.59	0.42
snp36232-scaffold433-1851751	6	84097782	G	A	0.88	0.41	0.61	0.61	0.66	0.50
snp36233-scaffold433-1880537	6	84126889	C	A	0.86	0.82	0.61	0.61	0.64	0.46
snp36234-scaffold433-1944012	6	84191204	A	G	0.88	0.41	0.92	0.74	0.61	0.60
snp36235-scaffold433-1980454	6	84227636	A	G	0.64	0.59	0.74	0.83	0.78	0.84
snp36236-scaffold433-2014363	6	84261953	A	C	0.83	0.82	0.82	0.72	0.76	0.96
snp36239-scaffold433-2114932	6	84363630	G	A	0.72	0.50	0.82	0.80	0.71	0.90
snp36240-scaffold433-2150890	6	84399875	G	A	0.60	0.88	0.87	0.78	0.70	0.28
snp36242-scaffold433-2243946	6	84494693	A	G	0.48	0.12	0.45	0.81	0.59	0.80
snp36243-scaffold433-2290839	6	84550394	G	A	0.88	0.94	0.95	0.87	0.91	0.60
snp36244-scaffold433-2327090	6	84587037	A	C	0.66	1.00	0.58	0.80	0.78	0.91
snp36245-scaffold433-2369729	6	84630269	G	A	0.74	0.41	0.68	0.57	0.68	0.59
snp36246-scaffold433-2410081	6	84670863	A	G	0.43	0.74	0.66	0.63	0.49	0.54
snp36247-scaffold433-2458008	6	84718290	A	G	0.91	0.74	0.74	0.44	0.87	0.67
snp36248-scaffold433-2496408	6	84756877	A	G	0.83	0.76	0.82	0.83	0.71	0.33
snp36249-scaffold433-2541429	6	84803192	A	G	0.98	0.91	0.95	0.91	0.95	0.72
snp36250-scaffold433-2598226	6	84859242	A	G	0.69	0.74	0.53	0.76	0.54	0.47
snp36251-scaffold433-2643408	6	84905194	A	C	0.41	0.85	0.45	0.20	0.55	0.30
snp59410-scaffold980-39769	6	85723625	G	A	0.71	0.97	0.74	0.59	0.64	0.53
snp59413-scaffold980-176278	6	85861188	G	A	0.90	0.44	0.82	0.87	0.76	0.38
snp59414-scaffold980-228963	6	85913488	G	A	0.81	0.44	0.84	0.78	0.80	0.56
snp59416-scaffold980-293987	6	85978469	A	G	0.88	0.24	0.58	0.59	0.41	0.91
snp59417-scaffold980-295173	6	85979655	A	G	0.88	0.85	0.76	0.61	0.68	0.22
snp59426-scaffold980-307288	6	85991683	A	C	0.24	0.88	0.66	0.93	0.59	0.24

snp59427-scaffold980-309132	6	85994156	G	A	0.24	0.88	0.66	0.93	0.59	0.24
snp59428-scaffold980-310410	6	85995436	G	A	0.24	0.88	0.66	0.93	0.59	0.24
snp59429-scaffold980-310523	6	85995549	A	G	0.24	0.88	0.66	0.93	0.59	0.24
snp59430-scaffold980-311053	6	85996079	A	G	0.24	0.88	0.66	0.93	0.59	0.24
snp59431-scaffold980-311510	6	85996534	A	G	0.95	1.00	0.79	1.00	0.70	0.62
snp59432-scaffold980-311547	6	85996571	A	G	0.26	0.88	0.66	0.93	0.59	0.24
snp59434-scaffold980-322977	6	86007956	A	G	0.71	0.12	0.32	0.07	0.41	0.79
snp59435-scaffold980-323008	6	86007987	G	A	1.00	1.00	1.00	1.00	1.00	1.00
snp59438-scaffold980-323773	6	86008752	G	A	0.71	0.12	0.32	0.07	0.41	0.79
snp59439-scaffold980-324311	6	86009290	A	G	0.71	0.12	0.32	0.07	0.41	0.79
snp59441-scaffold980-325353	6	86010332	A	G	0.71	0.12	0.32	0.07	0.41	0.79
snp59442-scaffold980-364892	6	86050088	A	G	0.72	0.44	0.53	0.78	0.54	0.44
snp59444-scaffold980-395682	6	86080909	C	A	0.50	0.94	0.82	0.80	0.96	0.94
snp59445-scaffold980-395848	6	86081075	C	A	0.71	0.41	0.68	0.80	0.62	0.62
snp59447-scaffold980-398647	6	86083874	C	A	0.38	0.44	0.61	0.81	0.88	0.63
snp59448-scaffold980-399351	6	86084578	G	A	1.00	1.00	0.97	1.00	0.95	0.91
snp59450-scaffold980-400667	6	86085897	A	G	0.86	0.65	0.61	0.24	0.46	0.52
snp59451-scaffold980-402598	6	86087828	G	A	0.90	0.65	0.61	0.43	0.47	0.57
snp59454-scaffold980-403305	6	86088536	A	G	0.90	0.65	0.61	0.43	0.47	0.57
snp59455-scaffold980-407817	6	86093124	G	A	0.86	0.65	0.61	0.43	0.47	0.57
snp59458-scaffold980-434555	6	86118732	C	A	0.84	0.65	0.63	0.44	0.47	0.57
snp59459-scaffold980-469488	6	86155374	A	G	0.90	0.62	0.58	0.44	0.47	0.57
snp59460-scaffold980-512583	6	86198470	G	A	0.33	0.74	0.53	0.78	0.75	0.63
snp59463-scaffold980-517776	6	86203664	A	G	0.22	0.65	0.53	0.74	0.75	0.67
snp59465-scaffold980-522477	6	86208823	G	A	1.00	0.88	0.95	1.00	0.99	0.99
snp59466-scaffold980-522552	6	86208898	A	G	0.98	1.00	0.95	0.93	0.89	1.00
snp59467-scaffold980-522554	6	86208900	A	G	1.00	1.00	1.00	0.94	1.00	1.00
snp59468-scaffold980-522581	6	86208927	A	G	1.00	1.00	1.00	1.00	1.00	1.00
snp59469-scaffold980-522616	6	86208962	G	A	0.98	1.00	0.95	0.93	0.89	1.00
snp59471-scaffold980-522691	6	86209037	G	A	1.00	1.00	1.00	1.00	1.00	1.00
snp59472-scaffold980-522778	6	86209124	A	G	0.93	0.94	0.95	0.78	0.79	0.57
snp59473-scaffold980-523359	6	86209708	A	G	0.86	0.41	0.58	0.48	0.47	0.79
snp59476-scaffold980-611628	6	86296898	A	G	0.83	0.91	0.74	0.80	0.67	0.88
snp59477-scaffold980-650487	6	86335395	G	A	0.43	0.88	0.61	0.52	0.59	0.51
snp59478-scaffold980-719185	6	86403884	A	C	0.69	0.53	0.50	0.65	0.45	0.60
snp59479-scaffold980-756733	6	86441636	A	G	0.55	0.32	0.66	0.89	0.41	0.58
snp59480-scaffold980-805769	6	86490735	G	A	0.78	0.94	0.76	0.81	0.76	0.44
snp59481-scaffold980-845143	6	86530389	G	A	0.81	0.71	0.74	0.52	0.67	0.81
snp59482-scaffold980-897515	6	86582982	A	G	0.60	0.26	0.71	0.44	0.62	0.58
snp59483-scaffold980-932164	6	86617643	A	G	0.53	0.85	0.63	0.67	0.55	0.86
snp59485-scaffold980-1037986	6	86723526	A	C	0.88	0.71	0.87	0.85	0.99	0.89
snp59486-scaffold980-1068168	6	86753823	G	A	0.71	1.00	0.97	0.72	0.75	0.67
snp59488-scaffold980-1135359	6	86822367	A	G	0.53	0.24	0.53	0.33	0.63	0.41

snp59489-scaffold980-1170267	6	86858026	A	G	0.66	0.97	0.79	0.81	0.63	0.77
snp59490-scaffold980-1217770	6	86905655	G	A	0.46	0.85	0.76	0.87	0.63	0.68
snp59491-scaffold980-1264886	6	86946839	A	G	0.86	1.00	0.84	0.89	0.87	0.56
snp59492-scaffold980-1308491	6	86990418	G	A	0.62	0.68	0.66	0.59	0.61	0.32
snp59493-scaffold980-1344268	6	87026431	G	A	0.83	0.79	0.82	1.00	0.88	0.50
snp59494-scaffold980-1377724	6	87059305	G	A	0.93	0.79	0.53	0.26	0.80	0.73
snp59495-scaffold980-1409219	6	87091375	A	G	0.48	0.44	0.53	0.44	0.78	0.37
snp59498-scaffold980-1542962	6	87224552	A	G	0.91	0.82	0.74	0.67	0.67	0.87
snp59499-scaffold980-1597986	6	87277318	A	G	0.41	0.24	0.61	0.76	0.49	0.39
snp59500-scaffold980-1653956	6	87333420	G	A	0.83	0.88	0.50	0.35	0.51	0.63
snp59501-scaffold980-1696492	6	87375279	A	G	0.48	0.68	0.79	0.59	0.66	0.47
snp59502-scaffold980-1754315	6	87432568	A	G	0.78	0.71	0.45	0.87	0.61	0.43
snp59503-scaffold980-1809268	6	87486180	G	A	0.48	0.09	0.45	0.52	0.74	0.40
snp59504-scaffold980-1844220	6	87520913	G	A	0.69	0.71	0.47	0.81	0.59	0.64
snp59505-scaffold980-1885171	6	87562136	G	A	0.86	0.97	0.92	0.87	0.86	0.63
snp59506-scaffold980-1929596	6	87607376	A	C	0.24	0.68	0.79	0.69	0.45	0.83
snp59507-scaffold980-1963541	6	87642965	A	G	0.72	0.53	0.53	0.52	0.36	0.61
snp59508-scaffold980-1996928	6	87676461	A	G	0.79	0.76	0.82	0.78	0.74	0.90
snp59509-scaffold980-2038725	6	87717680	A	G	0.84	0.76	0.66	0.61	0.67	0.82
snp59510-scaffold980-2081926	6	87763495	A	G	0.64	0.91	0.89	0.81	0.79	0.94
snp59511-scaffold980-2118157	6	87799781	A	G	0.79	0.82	0.74	0.74	0.57	0.52
snp59512-scaffold980-2175698	6	87856632	A	C	0.60	0.79	0.42	0.54	0.39	0.62
snp59514-scaffold980-2238150	6	87918820	G	A	0.83	0.82	0.87	0.93	0.91	0.57
snp59881-scaffold996-25451	6	87947666	A	G	0.83	0.68	0.92	0.85	0.74	0.90
snp59882-scaffold996-56860	6	87977437	G	A	0.67	0.71	0.66	0.48	0.45	0.68
snp59883-scaffold996-96450	6	88017011	G	A	0.59	0.71	0.89	0.89	0.78	0.73
snp59884-scaffold996-137936	6	88058887	A	G	0.69	0.65	0.74	0.56	0.54	0.21
snp59885-scaffold996-174893	6	88098751	A	G	0.53	0.41	0.47	0.44	0.64	0.44
snp59886-scaffold996-206707	6	88129137	A	C	0.48	0.82	0.63	0.96	0.47	0.31
snp59887-scaffold996-240805	6	88163548	G	A	0.48	0.41	0.53	0.06	0.59	0.67
snp59888-scaffold996-270759	6	88193909	G	A	0.97	0.85	0.87	1.00	0.76	0.90
snp59889-scaffold996-319198	6	88242608	G	A	0.76	0.71	0.66	0.39	0.39	0.30
snp59890-scaffold996-373156	6	88296849	C	A	0.55	0.62	0.47	0.52	0.53	0.48
snp59892-scaffold996-439249	6	88364177	A	G	0.52	0.65	0.53	0.76	0.63	0.69
snp7871-scaffold1281-3251602	6	88369601	A	C	0.69	0.44	0.68	0.57	0.80	0.53
snp7870-scaffold1281-3209251	6	88413999	G	A	0.79	0.62	0.61	0.59	0.75	0.59
snp7869-scaffold1281-3146516	6	88477919	A	G	0.62	0.94	0.89	0.78	0.78	0.82
snp7867-scaffold1281-3069811	6	88548044	A	G	0.91	0.94	0.97	0.89	0.76	0.91
snp7865-scaffold1281-2993308	6	88625379	G	A	0.84	0.62	0.92	0.81	0.79	0.86
snp7864-scaffold1281-2946675	6	88672088	A	G	0.95	1.00	0.97	0.89	0.83	0.82
snp7863-scaffold1281-2905738	6	88713081	A	G	0.69	0.88	0.63	0.81	0.68	0.52
snp7862-scaffold1281-2867994	6	88751476	G	A	0.67	0.76	0.61	0.80	0.62	0.37
snp7859-scaffold1281-2744288	6	88875483	G	A	0.69	0.82	0.61	0.89	0.71	0.24

snp7858-scaffold1281-2709785	6	88910244	A	G	0.60	0.74	0.50	0.87	0.66	0.22
snp7857-scaffold1281-2669753	6	88950303	A	C	0.41	0.79	0.66	0.70	0.80	0.82
snp7856-scaffold1281-2633459	6	88987240	G	A	0.84	1.00	0.71	0.70	0.86	0.96
snp7854-scaffold1281-2573893	6	89046486	G	A	0.64	0.56	0.45	0.78	0.62	0.30
snp7853-scaffold1281-2539045	6	89081427	G	A	0.74	0.26	0.55	0.28	0.63	0.82
snp7851-scaffold1281-2453837	6	89164178	A	G	0.93	0.88	1.00	0.89	0.91	0.92
snp7850-scaffold1281-2389999	6	89228405	G	A	0.80	0.71	0.55	0.85	0.66	0.84
snp7849-scaffold1281-2347312	6	89271447	G	A	0.83	0.82	0.79	0.96	0.45	0.82
snp7848-scaffold1281-2308363	6	89311000	G	A	0.74	0.76	0.74	0.83	0.68	0.84
snp7846-scaffold1281-2224915	6	89392374	G	A	0.76	0.76	0.34	0.65	0.53	0.60
snp7845-scaffold1281-2182425	6	89433782	A	G	0.83	0.79	0.61	1.00	0.58	0.86
snp7844-scaffold1281-2147026	6	89469205	A	G	0.76	0.74	0.39	0.87	0.76	0.67
snp7843-scaffold1281-2095611	6	89521067	G	A	0.72	0.68	0.58	0.76	0.68	0.29
snp7842-scaffold1281-2032198	6	89585687	A	G	0.72	0.59	0.74	0.96	0.62	0.37
snp7841-scaffold1281-1981418	6	89636526	A	G	0.62	0.79	0.50	0.83	0.71	0.59
snp7840-scaffold1281-1944793	6	89673335	A	G	0.53	0.68	0.47	0.72	0.71	0.51
snp7839-scaffold1281-1909013	6	89709498	C	A	0.55	0.79	0.76	0.78	0.61	0.77
snp7838-scaffold1281-1858089	6	89760275	G	A	0.57	0.65	0.61	0.59	0.61	0.61
snp7835-scaffold1281-1746790	6	89871220	G	A	0.67	0.50	0.79	0.85	0.54	0.27
snp7834-scaffold1281-1711923	6	89906464	G	A	0.78	0.62	0.68	0.74	0.51	0.73
snp7833-scaffold1281-1682312	6	89936218	A	G	0.76	0.76	0.84	0.65	0.76	0.58
snp7832-scaffold1281-1651749	6	89966767	G	A	0.66	0.50	0.71	0.57	0.66	0.96
snp7831-scaffold1281-1622621	6	89996685	A	G	0.66	0.56	0.87	0.69	0.72	0.68
snp7829-scaffold1281-1546878	6	90073626	G	A	0.33	0.79	0.63	0.65	0.54	0.58
snp7828-scaffold1281-1487138	6	90133650	A	G	0.74	0.56	0.84	0.89	0.67	0.47
snp7827-scaffold1281-1452740	6	90168010	G	A	0.78	0.82	0.79	0.81	0.80	0.94
snp7826-scaffold1281-1419043	6	90201761	A	C	0.52	0.74	0.45	0.54	0.61	0.60
snp7825-scaffold1281-1387041	6	90233727	G	A	0.36	0.62	0.66	0.72	0.46	0.41
snp24359-scaffold247-7445771	11	44937429	A	G	0.83	0.62	0.18	0.70	0.38	0.64
snp24362-scaffold247-7612447	11	45106300	G	A	0.50	0.74	0.50	0.50	0.41	0.63
snp24363-scaffold247-7671529	11	45165248	G	A	0.81	0.88	0.97	0.98	0.80	0.94
snp24364-scaffold247-7700241	11	45193954	G	A	0.71	0.38	0.53	0.65	0.61	0.83
snp24365-scaffold247-7737011	11	45230573	G	A	0.74	0.47	0.68	0.76	0.55	0.68
snp24366-scaffold247-7788661	11	45283938	A	G	0.71	0.59	0.84	0.61	0.21	0.59
snp24367-scaffold247-7817474	11	45312792	A	C	0.93	0.71	0.95	0.72	0.45	0.64
snp24368-scaffold247-7849544	11	45344976	G	A	0.46	0.62	0.74	0.50	0.86	0.44
snp24369-scaffold247-7885248	11	45380355	G	A	0.43	0.62	0.66	0.57	0.83	0.58
snp24370-scaffold247-7918087	11	45413563	C	A	0.38	0.41	0.53	0.59	0.87	0.68
snp24372-scaffold247-7985455	11	45481199	G	A	0.47	0.65	0.29	0.61	0.51	0.46
snp24373-scaffold247-8014995	11	45510693	G	A	0.67	0.65	0.34	0.76	0.72	0.43
snp24375-scaffold247-8126221	11	45620617	A	G	0.79	0.09	0.66	0.43	0.58	0.50
snp24376-scaffold247-8163187	11	45658154	G	A	0.45	0.76	0.89	0.63	0.70	0.41
snp24377-scaffold247-8195661	11	45690410	G	A	0.74	0.56	0.92	0.74	0.50	0.69

snp24378-scaffold247-8237399	11	45733434	C	A	0.38	0.56	0.84	0.57	0.36	0.37
snp24379-scaffold247-8271176	11	45767199	G	A	0.86	0.88	0.95	0.98	0.70	0.91
snp24380-scaffold247-8312050	11	45807874	G	A	0.71	0.85	0.39	0.96	0.64	0.89
snp24381-scaffold247-8348343	11	45834714	A	G	0.50	0.62	0.34	0.87	0.61	0.76
snp24382-scaffold247-8397562	11	45883991	G	A	0.78	0.85	0.71	0.94	0.63	0.83
snp24383-scaffold247-8432697	11	45919329	C	A	0.53	0.88	0.89	0.67	0.70	0.76
snp24384-scaffold247-8476501	11	45963596	G	A	0.66	0.47	0.71	0.72	0.64	0.70
snp24385-scaffold247-8511046	11	45998519	A	G	0.41	0.56	0.34	0.52	0.88	0.47
snp24386-scaffold247-8549140	11	46037044	A	G	0.72	0.91	0.66	0.35	0.76	0.53
snp24388-scaffold247-8639566	11	46126917	A	G	0.84	0.79	0.97	0.65	0.74	0.88
snp24390-scaffold247-8701572	11	46188430	C	A	0.74	0.85	0.92	0.83	0.71	0.53
snp24391-scaffold247-8735760	11	46222740	A	G	0.84	0.53	0.68	0.62	0.87	0.73
snp24393-scaffold247-8807369	11	46293120	A	G	0.69	0.53	0.82	0.41	0.39	0.63
snp24394-scaffold247-8844300	11	46330321	G	A	0.74	0.41	0.61	0.26	0.55	0.52
snp24395-scaffold247-8900755	11	46387211	C	A	0.86	0.65	0.89	0.78	0.96	0.70
snp24396-scaffold247-8934763	11	46421230	A	G	0.55	0.44	0.68	0.46	0.37	0.78
snp24397-scaffold247-8994694	11	46482074	A	G	0.62	0.29	0.66	0.69	0.54	0.57
snp24398-scaffold247-9043653	11	46531087	A	G	0.81	0.74	0.45	0.76	0.50	0.88
snp24399-scaffold247-9097794	11	46585437	G	A	0.59	0.74	0.89	0.89	0.46	0.57
snp24400-scaffold247-9134050	11	46621817	C	A	0.45	0.50	0.58	0.76	0.55	0.66
snp24401-scaffold247-9172226	11	46659855	A	G	0.57	0.62	0.68	0.69	0.36	0.51
snp24402-scaffold247-9229849	11	46718038	A	G	0.57	0.68	0.82	0.54	0.72	0.40
snp24403-scaffold247-9268934	11	46757106	G	A	0.66	0.41	0.89	0.54	0.57	0.50
snp24404-scaffold247-9300158	11	46788463	C	A	0.67	0.26	0.76	0.80	0.67	0.58
snp52890-scaffold793-1539305	11	46855479	A	G	0.78	0.56	0.53	0.39	0.89	0.46
snp52887-scaffold793-1411479	11	46983525	G	A	0.29	0.59	0.37	0.61	0.55	0.71
snp52886-scaffold793-1359234	11	47036182	C	A	0.79	0.32	0.68	0.63	0.63	0.64
snp52885-scaffold793-1311040	11	47084441	A	G	0.33	0.56	0.74	0.63	0.71	0.68
snp52884-scaffold793-1281501	11	47113940	C	A	0.38	0.38	0.56	0.65	0.57	0.52
snp52883-scaffold793-1222376	11	47173627	G	A	0.81	0.85	0.61	0.65	0.78	0.76
snp52882-scaffold793-1164646	11	47231511	A	G	0.84	1.00	0.89	0.81	0.62	0.86
snp52881-scaffold793-1094831	11	47301569	G	A	0.38	0.82	0.11	0.56	0.75	0.34
snp52880-scaffold793-1060593	11	47335810	A	G	0.67	0.59	0.29	0.26	0.63	0.37
snp52877-scaffold793-931038	11	47465558	G	A	0.81	0.82	0.84	0.96	0.80	1.00
snp52875-scaffold793-852206	11	47544671	A	G	0.67	0.71	0.11	0.56	0.49	0.36
snp52874-scaffold793-813615	11	47583238	A	G	0.78	0.53	0.68	0.48	0.58	0.67
snp52873-scaffold793-768148	11	47624079	G	A	0.53	0.53	0.24	0.24	0.55	0.63
snp52872-scaffold793-735741	11	47657460	A	G	0.52	0.53	0.71	0.57	0.79	0.73
snp52870-scaffold793-645929	11	47747561	A	G	0.78	0.65	0.92	0.81	0.45	0.93
snp52869-scaffold793-615567	11	47778061	G	A	0.59	0.68	0.61	0.56	0.84	0.44
snp52868-scaffold793-580969	11	47812727	A	G	0.71	0.91	0.63	0.81	0.67	0.79
snp52867-scaffold793-538503	11	47854992	A	G	0.83	0.71	0.18	0.48	0.45	0.54
snp52866-scaffold793-484637	11	47909803	G	A	0.90	0.88	1.00	1.00	0.72	0.98

snp52865-scaffold793-422288	11	47972151	A	G	0.62	0.62	0.92	0.57	0.75	0.80
snp52864-scaffold793-390417	11	48004035	G	A	0.69	0.94	0.63	0.93	0.83	0.81
snp52862-scaffold793-266577	11	48128154	G	A	0.88	0.44	0.63	0.61	0.93	0.53
snp52861-scaffold793-226779	11	48168440	A	G	0.79	0.68	0.61	0.74	0.84	0.86
snp52860-scaffold793-172964	11	48222099	G	A	0.66	0.71	0.42	0.87	0.58	0.62
snp52859-scaffold793-142628	11	48252222	G	A	0.64	0.74	0.68	0.61	0.46	0.17
snp52858-scaffold793-109796	11	48285062	A	G	0.81	0.74	0.97	0.85	0.74	0.86
snp52857-scaffold793-77949	11	48316904	A	G	0.52	0.68	0.63	0.78	0.57	0.63
snp52856-scaffold793-42405	11	48351916	G	A	0.60	0.44	0.74	0.78	0.62	0.61
snp52855-scaffold793-6368	11	48387716	G	A	0.71	0.79	0.76	0.63	0.59	0.66
snp3581-scaffold1111-40020	11	48433549	A	G	0.83	0.79	0.97	0.91	0.93	0.73
snp3582-scaffold1111-88000	11	48479319	A	G	0.64	0.41	0.37	0.56	0.42	0.59
snp3584-scaffold1111-191133	11	48582501	G	A	0.83	0.44	0.18	0.24	0.55	0.73
snp3585-scaffold1111-242003	11	48634130	G	A	0.66	0.29	0.92	0.28	0.72	0.81
snp3586-scaffold1111-276061	11	48667927	G	A	0.43	0.47	0.84	0.41	0.46	0.79
snp3587-scaffold1111-306302	11	48697880	G	A	0.71	0.74	0.97	0.78	0.87	0.72
snp3588-scaffold1111-352606	11	48744005	A	C	0.71	0.76	0.87	0.69	0.63	0.59
snp3589-scaffold1111-383039	11	48774326	G	A	0.43	0.38	0.42	0.63	0.76	0.59
snp3590-scaffold1111-418306	11	48809542	A	G	0.57	0.82	0.63	0.81	0.75	0.80
snp3591-scaffold1111-454455	11	48845878	G	A	0.57	0.56	0.74	0.94	0.78	0.90
snp3592-scaffold1111-496847	11	48888368	C	A	0.59	0.53	0.61	0.85	0.88	0.89
snp3593-scaffold1111-542260	11	48933899	C	A	0.72	0.84	0.71	0.85	0.46	0.82
snp3594-scaffold1111-599861	11	48991424	A	G	0.83	0.59	0.61	0.96	0.92	0.93
snp3595-scaffold1111-644798	11	49036557	G	A	0.93	0.44	0.89	0.94	0.93	0.93
snp3596-scaffold1111-739858	11	49131546	A	G	0.83	0.85	0.76	0.50	0.80	0.52
snp3597-scaffold1111-792154	11	49183449	G	A	0.47	0.76	0.79	0.31	0.88	0.60
snp3598-scaffold1111-824439	11	49216140	C	A	0.50	0.50	0.50	0.65	0.67	0.49
snp3599-scaffold1111-857855	11	49249374	G	A	0.69	0.56	0.68	0.63	0.53	0.44
snp3601-scaffold1111-923713	11	49314966	A	G	0.67	0.88	0.87	0.80	0.70	0.81
snp13020-scaffold150-1792026	13	48951107	G	A	0.55	0.47	0.32	0.85	0.59	0.60
snp13021-scaffold150-1826857	13	48986366	G	A	0.67	0.62	0.63	0.93	0.86	0.58
snp13022-scaffold150-1858408	13	49018452	G	A	0.69	0.59	0.76	0.96	0.59	0.89
snp13023-scaffold150-1887308	13	49047497	C	A	0.60	0.32	0.58	0.85	0.96	0.60
snp13024-scaffold150-1957010	13	49118295	C	A	0.47	0.26	0.50	0.57	0.43	0.60
snp13026-scaffold150-2046045	13	49202152	A	G	0.55	0.71	0.53	0.67	0.57	0.80
snp13027-scaffold150-2077281	13	49233293	A	G	0.76	0.79	0.87	0.54	0.78	0.84
snp13028-scaffold150-2135081	13	49293957	G	A	0.59	0.71	1.00	0.81	0.57	0.67
snp13030-scaffold150-2216985	13	49376927	A	G	1.00	0.88	1.00	1.00	0.92	0.93
snp13031-scaffold150-2247207	13	49406518	A	G	0.79	0.97	1.00	0.89	0.59	0.87
snp13032-scaffold150-2345286	13	49505570	G	A	0.55	0.71	0.42	0.56	0.57	0.53
snp13033-scaffold150-2378517	13	49539282	C	A	0.57	0.44	0.84	0.52	0.84	0.61
snp13034-scaffold150-2419465	13	49580468	G	A	0.76	0.44	0.68	0.43	0.78	0.70
snp13035-scaffold150-2488901	13	49652002	A	G	0.41	0.41	0.82	0.20	0.80	0.48

snp13036-scaffold150-2537469	13	49701618	G	A	0.90	0.47	0.92	0.65	0.79	0.77
snp13038-scaffold150-2617014	13	49781549	A	G	0.64	0.56	0.87	0.78	0.72	0.82
snp13039-scaffold150-2652402	13	49817428	A	C	0.86	0.91	0.89	0.85	0.88	0.87
snp13040-scaffold150-2688016	13	49846097	G	A	0.41	0.74	0.74	0.80	0.70	0.54
snp13041-scaffold150-2723930	13	49882015	A	G	0.48	0.35	0.38	0.52	0.53	0.36
snp13042-scaffold150-2772062	13	49930534	A	G	0.72	0.65	0.32	0.59	0.51	0.73
snp13047-scaffold150-2998877	13	49975695	G	A	0.57	0.56	0.58	0.46	0.54	0.78
snp13048-scaffold150-3055872	13	50031156	A	G	0.69	0.74	0.79	0.70	0.47	0.72
snp13049-scaffold150-3085519	13	50061032	G	A	0.71	0.26	0.79	0.69	0.63	0.69
snp13051-scaffold150-3186404	13	50164018	G	A	0.60	0.82	0.47	0.69	0.83	0.64
snp13052-scaffold150-3240111	13	50218479	G	A	0.91	0.97	0.95	0.98	0.93	0.81
snp13053-scaffold150-3268945	13	50247575	A	G	0.59	0.62	0.71	0.09	0.79	0.67
snp13055-scaffold150-3341797	13	50319963	G	A	0.60	0.50	0.66	0.61	0.82	0.56
snp13056-scaffold150-3390278	13	50368850	G	A	0.72	0.47	0.84	0.70	0.21	0.49
snp13057-scaffold150-3423510	13	50402269	A	C	0.72	0.91	0.45	0.78	0.91	0.84
snp13058-scaffold150-3456786	13	50435691	A	G	0.45	0.62	0.34	0.85	0.34	0.57
snp13060-scaffold150-3557141	13	50537367	A	G	0.84	0.97	0.87	0.83	0.21	0.76
snp13061-scaffold150-3602836	13	50583481	G	A	0.79	0.82	0.32	0.78	0.22	0.73
snp13062-scaffold150-3671333	13	50652626	G	A	0.74	0.65	0.92	0.78	0.92	0.67
snp13063-scaffold150-3710652	13	50692019	A	C	0.53	0.50	0.66	0.78	0.88	0.61
snp13064-scaffold150-3771102	13	50752869	A	G	0.88	0.76	0.39	0.85	0.22	0.69
snp13065-scaffold150-3854094	13	50835654	A	G	0.69	0.97	0.58	0.74	0.42	0.66
snp13066-scaffold150-3913775	13	50895013	G	A	0.31	0.53	0.89	0.41	0.32	0.66
snp13068-scaffold150-4002526	13	50984377	G	A	0.38	0.47	0.24	0.57	0.75	0.66
snp13069-scaffold150-4040893	13	51022622	A	G	0.78	0.47	0.29	0.80	0.80	0.64
snp13070-scaffold150-4109148	13	51090982	A	G	0.69	0.62	0.29	0.54	0.79	0.59
snp13071-scaffold150-4161862	13	51144910	A	G	0.71	0.88	0.42	0.85	0.86	0.60
snp13072-scaffold150-4198124	13	51181225	C	A	0.55	0.47	0.76	0.85	0.86	0.76
snp13073-scaffold150-4265303	13	51248444	A	G	0.55	0.50	0.34	0.72	0.68	0.69
snp13074-scaffold150-4295197	13	51278339	G	A	0.90	0.97	0.95	0.96	0.72	0.77
snp13077-scaffold150-4411928	13	51394969	G	A	0.64	0.38	0.18	0.37	0.72	0.59
snp13079-scaffold150-4516025	13	51495702	G	A	0.88	0.71	0.34	0.63	0.92	0.63
snp13080-scaffold150-4562367	13	51541972	G	A	0.81	0.44	0.71	0.70	0.61	0.47
snp13083-scaffold150-4670453	13	51650456	A	G	0.88	0.97	0.47	0.78	0.87	0.67
snp13084-scaffold150-4752164	13	51732085	A	G	0.95	1.00	0.92	0.63	0.58	0.83
snp13086-scaffold150-4840688	13	51821206	A	G	0.36	0.79	0.24	0.56	0.87	0.48
snp13087-scaffold150-4881772	13	51862548	A	G	0.55	0.47	0.76	0.69	1.00	0.60
snp13090-scaffold150-4982136	13	51962712	A	G	0.67	0.74	0.76	0.69	0.66	0.70
snp13091-scaffold150-5011275	13	51992005	G	A	0.62	0.41	0.24	0.85	0.61	0.71
snp13092-scaffold150-5061100	13	52042210	A	G	0.47	0.74	0.66	0.50	0.86	0.72
snp13093-scaffold150-5103276	13	52084278	G	A	0.43	0.62	0.79	0.81	0.45	0.77
snp13094-scaffold150-5171386	13	52152350	G	A	0.36	0.71	0.45	0.91	0.49	0.80
snp13095-scaffold150-5234067	13	52215406	G	A	0.81	1.00	0.47	0.76	0.92	0.87

snp13096-scaffold150-5283349	13	52265157	A	C	0.79	0.76	0.68	0.70	0.88	0.53
snp13097-scaffold150-5318958	13	52300613	G	A	0.97	0.82	1.00	0.89	1.00	0.86
snp13098-scaffold150-5377130	13	52358539	G	A	0.36	0.74	0.84	1.00	0.84	0.72
snp13099-scaffold150-5409187	13	52390960	G	A	0.79	0.97	0.92	1.00	0.88	0.60
snp13100-scaffold150-5437865	13	52420154	G	A	0.71	0.47	0.87	0.46	0.74	0.86
snp13101-scaffold150-5532904	13	52515170	G	A	0.90	0.97	1.00	0.81	0.62	0.73
snp13102-scaffold150-5576981	13	52559153	G	A	0.88	0.97	0.50	0.57	0.68	0.74
snp13103-scaffold150-5652311	13	52634493	A	G	0.74	0.97	0.84	0.94	0.99	0.84
snp13104-scaffold150-5704786	13	52686956	G	A	0.67	0.50	0.50	0.74	0.47	0.53
snp13106-scaffold150-5816268	13	52799493	A	G	0.34	0.53	0.50	0.72	0.51	0.82
snp57653-scaffold924-31639	13	52871150	A	G	0.76	0.94	0.74	1.00	0.88	0.94
snp57656-scaffold924-127281	13	52967054	G	A	0.62	0.15	0.29	0.67	0.83	0.41
snp57657-scaffold924-156245	13	52996046	A	G	0.41	0.53	0.58	0.80	0.41	0.63
snp1640-scaffold10469-208327	13	53160922	G	A	0.78	0.74	0.42	0.54	0.55	0.30
snp1639-scaffold10469-54125	13	53305564	A	G	0.53	0.62	0.63	0.85	0.50	0.86
snp3082-scaffold10942-56333	13	53415534	A	G	0.45	0.79	0.39	0.65	0.91	0.68
snp3083-scaffold10942-139774	13	53499132	A	G	0.52	0.56	0.66	0.65	0.93	0.68
snp3084-scaffold10942-184058	13	53543335	A	G	0.52	0.94	0.53	0.52	0.89	0.60
snp3086-scaffold10942-256040	13	53615633	G	A	0.45	0.53	0.63	0.48	0.91	0.56
snp47987-scaffold677-32710	13	53941826	C	A	0.53	0.68	0.53	0.74	0.70	0.36
snp47988-scaffold677-71484	13	53980581	G	A	0.74	0.29	0.47	0.22	0.11	0.74
snp47989-scaffold677-111621	13	54020763	A	G	0.66	0.91	0.63	0.83	0.58	0.47
snp47991-scaffold677-242551	13	54148578	A	G	0.48	0.79	0.55	0.43	0.51	0.37
snp47992-scaffold677-303503	13	54234723	A	C	0.52	0.29	0.42	0.46	0.87	0.82
snp47993-scaffold677-382501	13	54283307	A	G	0.76	0.26	0.37	0.48	0.84	0.87
snp59143-scaffold97-1334327	13	54343916	A	G	0.43	0.79	0.55	0.57	0.55	0.59
snp59142-scaffold97-1302272	13	54375905	A	G	0.50	0.62	0.76	0.48	0.36	0.46
snp59140-scaffold97-1234161	13	54443908	G	A	0.69	0.82	0.87	0.83	0.39	0.46
snp59139-scaffold97-1161128	13	54517150	A	G	0.69	0.35	0.63	0.72	0.83	0.78
snp59138-scaffold97-1130980	13	54547712	G	A	0.60	0.44	0.84	0.70	0.80	0.73
snp59137-scaffold97-1070618	13	54608080	A	G	0.69	0.62	0.76	0.72	0.84	0.73
snp59136-scaffold97-1039608	13	54639178	G	A	0.69	0.56	0.82	0.63	0.96	0.67
snp59134-scaffold97-945914	13	54732654	A	G	0.93	0.76	0.68	1.00	0.63	0.78
snp59133-scaffold97-914274	13	54764299	A	G	0.78	0.91	0.63	0.57	0.62	0.77
snp59132-scaffold97-881836	13	54796713	A	G	0.57	0.56	0.55	0.41	0.42	0.40
snp59130-scaffold97-798683	13	54879725	G	A	0.53	0.53	0.66	0.48	0.53	0.57
snp59129-scaffold97-750673	13	54927643	A	G	0.69	0.91	1.00	0.93	0.57	0.92
snp59126-scaffold97-602516	13	55074522	A	G	0.93	0.79	0.89	0.91	0.62	0.84
snp59125-scaffold97-555694	13	55121476	A	G	0.33	0.38	0.74	0.70	0.67	0.74
snp59124-scaffold97-514510	13	55162546	A	G	0.36	0.62	0.42	0.81	0.61	0.58
snp59123-scaffold97-481812	13	55195097	G	A	0.90	0.85	0.76	0.56	0.76	0.77
snp59122-scaffold97-446740	13	55230170	A	G	0.71	0.74	0.42	0.44	0.70	0.34
snp59121-scaffold97-396456	13	55279634	A	G	0.78	0.88	0.74	0.70	0.55	0.83

snp59120-scaffold97-338545	13	55337155	A	G	0.50	0.59	0.61	0.61	0.18	0.53
snp59119-scaffold97-300805	13	55373792	A	G	0.64	0.53	0.55	0.56	0.46	0.88
snp59118-scaffold97-249935	13	55424701	A	G	0.57	0.71	0.71	0.89	0.62	0.60
snp59116-scaffold97-145693	13	55529385	G	A	0.88	1.00	1.00	1.00	0.93	0.80
snp59115-scaffold97-112867	13	55562284	A	G	0.71	0.97	0.82	0.81	0.67	0.70
snp59114-scaffold97-79343	13	55595704	G	A	0.48	0.47	0.34	0.78	0.55	0.39
snp59113-scaffold97-16178	13	55659262	A	G	0.48	0.76	0.89	0.39	0.87	0.96
snp51639-scaffold758-2053604	13	55726046	G	A	0.74	0.44	0.76	0.72	0.70	0.62
snp51637-scaffold758-1972385	13	55807622	A	G	0.59	0.71	0.63	0.58	0.20	0.91
snp51636-scaffold758-1938854	13	55839931	G	A	0.84	0.32	0.53	0.83	0.45	0.62
snp51635-scaffold758-1904594	13	55874198	A	C	0.74	0.79	0.95	0.89	0.82	0.67
snp51633-scaffold758-1784016	13	55995273	C	A	0.64	0.29	0.50	0.76	0.76	0.79
snp51631-scaffold758-1680193	13	56099350	G	A	0.64	0.53	0.74	0.72	0.63	0.28
snp51630-scaffold758-1648572	13	56130867	A	G	0.43	0.38	0.71	0.69	0.62	0.70
snp51629-scaffold758-1596469	13	56182537	G	A	0.83	1.00	0.71	0.96	0.54	0.77
snp51628-scaffold758-1538532	13	56240654	A	G	0.74	0.82	0.74	0.37	0.70	0.46
snp51627-scaffold758-1501836	13	56277331	A	G	0.79	0.26	0.79	0.59	0.43	0.67
snp51626-scaffold758-1464555	13	56314647	A	G	0.69	0.79	0.74	0.63	0.74	0.84
snp51625-scaffold758-1433001	13	56346258	G	A	0.79	0.62	0.84	0.59	0.54	0.44
snp51624-scaffold758-1349045	13	56429888	G	A	0.93	0.97	0.84	0.67	0.97	0.94
snp51623-scaffold758-1317085	13	56462200	A	C	0.83	0.85	0.84	0.46	0.97	0.94
snp51621-scaffold758-1246638	13	56532819	G	A	0.98	1.00	0.97	0.93	0.99	0.92
snp51620-scaffold758-1185419	13	56593905	A	G	0.59	0.32	0.86	0.57	0.45	0.32
snp51619-scaffold758-1137940	13	56641339	A	G	0.81	1.00	0.89	0.89	0.91	0.94
snp51618-scaffold758-1076685	13	56703165	G	A	0.60	0.97	0.92	0.94	0.61	0.67
snp51617-scaffold758-1046091	13	56734036	G	A	0.74	0.38	0.89	0.70	0.83	0.43
snp51616-scaffold758-987448	13	56792225	A	G	0.81	0.94	0.92	0.94	0.96	0.87
snp51615-scaffold758-951832	13	56827986	A	G	0.83	0.74	0.87	0.78	0.75	0.68
snp51614-scaffold758-921766	13	56857987	A	G	0.69	0.59	0.95	0.72	0.74	0.64
snp51611-scaffold758-759914	13	57019624	G	A	0.71	0.38	0.84	0.48	0.70	0.58
snp51609-scaffold758-682359	13	57097091	G	A	0.81	0.76	0.26	0.83	0.86	0.74
snp51608-scaffold758-623630	13	57155515	C	A	0.33	0.38	0.45	0.72	0.61	0.80
snp51607-scaffold758-576864	13	57201918	G	A	0.47	0.56	0.39	0.39	0.76	0.39
snp51606-scaffold758-537192	13	57241444	G	A	0.28	0.47	0.68	0.43	0.34	0.57
snp51605-scaffold758-507235	13	57271315	G	A	0.90	0.85	0.76	0.56	0.83	0.39
snp51604-scaffold758-468102	13	57310819	G	A	0.43	0.35	0.66	0.54	0.61	0.60
snp51603-scaffold758-435287	13	57344078	A	G	0.90	0.85	1.00	0.96	0.99	0.56
snp51602-scaffold758-401439	13	57378109	C	A	0.55	0.85	0.26	0.67	0.71	0.77
snp51601-scaffold758-348533	13	57430935	G	A	0.97	0.97	0.63	0.96	0.91	0.96
snp51599-scaffold758-231150	13	57548364	A	G	0.64	0.85	0.42	0.81	0.58	0.48
snp51598-scaffold758-200850	13	57578599	A	G	0.69	0.59	0.76	0.57	0.78	0.62
snp51597-scaffold758-148867	13	57630450	A	G	0.53	0.59	0.63	0.59	0.39	0.62
snp51595-scaffold758-81029	13	57697180	G	A	0.36	0.76	0.18	0.52	0.86	0.38

snp51594-scaffold758-41618	13	57736476	G	A	0.53	0.32	0.82	0.57	0.45	0.68
snp51593-scaffold758-4807	13	57773651	G	A	0.47	0.29	0.68	0.87	0.54	0.30
snp38035-scaffold4735-20143	13	57799650	A	G	0.65	0.82	0.76	0.83	0.66	0.76
snp48732-scaffold691-4056627	13	57835346	G	A	0.86	0.88	0.97	0.81	0.97	0.94
snp48731-scaffold691-4007331	13	57885043	A	C	0.55	0.85	0.50	0.57	0.76	0.52
snp48730-scaffold691-3968776	13	57923892	A	G	0.66	0.79	0.71	0.43	0.62	0.33
snp48728-scaffold691-3891907	13	58000655	G	A	0.88	0.59	0.76	0.78	0.64	0.52
snp48727-scaffold691-3844983	13	58047381	C	A	0.66	0.74	0.53	0.89	0.47	0.86
snp48726-scaffold691-3812400	13	58079901	G	A	0.97	0.91	0.76	0.78	0.59	0.56
snp48725-scaffold691-3771222	13	58121171	G	A	0.60	0.35	0.82	0.41	0.57	0.52
snp48724-scaffold691-3724638	13	58167847	G	A	0.81	0.94	0.97	0.96	0.71	0.97
snp48723-scaffold691-3676681	13	58215991	G	A	0.60	0.47	0.29	0.33	0.68	0.64
snp48722-scaffold691-3642650	13	58250129	G	A	0.64	0.82	0.29	0.72	0.88	0.74
snp48721-scaffold691-3606611	13	58286133	G	A	0.57	0.53	0.42	0.37	0.84	0.77
snp48720-scaffold691-3577941	13	58315126	A	G	0.90	0.50	0.97	0.80	0.89	0.81
snp48719-scaffold691-3522528	13	58370939	A	C	0.41	0.76	0.74	0.37	0.57	0.73
snp48718-scaffold691-3491671	13	58401733	G	A	0.64	0.91	0.92	0.33	0.84	0.76
snp48717-scaffold691-3449579	13	58443484	A	G	0.53	0.32	0.37	0.78	0.71	0.80
snp48716-scaffold691-3419004	13	58473970	A	G	0.74	0.82	0.79	0.69	0.84	0.81
snp48715-scaffold691-3389021	13	58504312	G	A	0.50	0.15	0.26	0.35	0.68	0.84
snp48714-scaffold691-3339003	13	58554268	G	A	0.57	0.79	0.79	0.69	0.37	0.39
snp48713-scaffold691-3275295	13	58617614	C	A	0.98	0.88	0.92	1.00	0.89	1.00
snp48712-scaffold691-3242076	13	58650956	G	A	0.76	0.53	0.87	0.48	0.76	0.78
snp48711-scaffold691-3212981	13	58677046	G	A	0.76	0.62	0.87	0.93	0.46	0.43
snp48710-scaffold691-3182114	13	58708491	C	A	0.71	0.68	0.42	0.50	0.61	0.73
snp48709-scaffold691-3151884	13	58737467	G	A	0.66	0.79	0.82	0.65	0.54	0.54
snp48708-scaffold691-3121607	13	58768300	A	G	0.53	0.71	0.68	0.87	0.78	0.76
snp48705-scaffold691-2985461	13	58903680	A	G	0.95	0.88	1.00	0.98	0.91	0.94
snp48704-scaffold691-2931706	13	58957839	A	G	0.41	0.56	0.82	0.31	0.34	0.49
snp48703-scaffold691-2873716	13	59016648	A	G	0.52	0.53	0.89	0.46	0.59	0.63
snp48701-scaffold691-2797883	13	59092877	G	A	0.76	0.94	0.87	0.91	0.83	0.73
snp48699-scaffold691-2724642	13	59166204	A	G	0.60	0.38	0.71	0.44	0.57	0.42
snp48697-scaffold691-2652764	13	59238655	A	G	0.70	0.32	0.42	0.67	0.64	0.72
snp48696-scaffold691-2617271	13	59273709	C	A	0.59	0.76	0.76	0.43	0.51	0.52
snp48695-scaffold691-2576130	13	59314956	A	G	0.72	0.85	0.76	0.44	0.70	0.69
snp48694-scaffold691-2541731	13	59347221	A	C	0.67	0.65	0.24	0.81	0.45	0.53
snp48693-scaffold691-2512532	13	59377448	G	A	0.88	0.85	0.53	0.83	0.59	0.76
snp48692-scaffold691-2441767	13	59447744	A	G	0.69	0.59	0.74	0.80	0.47	0.60
snp48690-scaffold691-2355185	13	59533966	A	G	0.71	0.35	0.47	0.26	0.83	0.69
snp48689-scaffold691-2271551	13	59617972	A	G	0.98	0.85	1.00	0.85	0.91	1.00
snp48687-scaffold691-2208058	13	59691809	G	A	0.76	0.41	0.16	0.69	0.88	0.67
snp48686-scaffold691-2175979	13	59723770	A	C	0.93	1.00	0.97	0.94	0.55	0.91
snp48685-scaffold691-2121763	13	59777889	A	G	0.78	0.47	0.21	0.69	0.67	0.66

snp48684-scaffold691-2078262	13	59821510	A	G	0.86	0.74	0.97	0.57	0.88	0.76
snp48683-scaffold691-2018665	13	59881287	A	G	0.93	0.91	0.45	0.69	0.84	0.54
snp48682-scaffold691-1951001	13	59949924	G	A	0.38	0.38	0.16	0.46	0.63	0.48
snp48680-scaffold691-1814336	13	60086997	A	C	0.26	0.32	0.42	0.76	0.25	0.79
snp48676-scaffold691-1659135	13	60244049	A	G	0.60	0.53	0.37	0.48	0.59	0.60
snp48675-scaffold691-1611256	13	60292162	G	A	0.66	0.82	0.95	0.76	0.86	0.51
snp48673-scaffold691-1501695	13	60401596	G	A	0.60	0.50	0.42	0.65	0.64	0.40
snp48672-scaffold691-1468331	13	60434676	A	G	0.81	0.94	0.97	1.00	0.88	0.94
snp48671-scaffold691-1413629	13	60489154	C	A	0.64	0.62	0.92	0.41	0.58	0.41
snp48670-scaffold691-1370255	13	60532573	G	A	0.53	0.50	0.42	0.78	0.43	0.72
snp48669-scaffold691-1330986	13	60571904	A	G	0.53	0.76	0.76	0.30	0.71	0.64
snp48668-scaffold691-1301732	13	60601288	G	A	0.48	0.56	0.68	0.59	0.80	0.50
snp48667-scaffold691-1265329	13	60637928	G	A	0.69	0.56	0.50	0.78	0.42	0.61
snp48666-scaffold691-1231504	13	60671725	G	A	0.88	0.74	0.47	0.31	0.47	0.66
snp48664-scaffold691-1156130	13	60746881	A	G	0.61	0.71	0.47	0.70	0.74	0.60
snp48663-scaffold691-1120968	13	60781203	A	G	0.38	0.26	0.58	0.63	0.61	0.38
snp48662-scaffold691-1087196	13	60815005	A	G	0.50	0.68	0.71	0.46	0.32	0.46
snp48660-scaffold691-985507	13	60915069	A	G	0.57	0.79	0.74	0.46	0.71	0.40
snp48659-scaffold691-944258	13	60956345	A	G	0.86	0.74	0.89	0.78	0.45	0.76
snp48658-scaffold691-871881	13	61027609	A	G	0.55	0.53	0.53	0.35	0.75	0.64
snp48657-scaffold691-826662	13	61072258	A	G	0.69	0.65	0.66	0.81	0.33	0.39
snp48655-scaffold691-737821	13	61183998	G	A	0.59	0.85	0.87	0.80	0.37	0.58
snp48654-scaffold691-694962	13	61226592	A	G	0.57	0.32	0.26	0.72	0.71	0.67
snp48653-scaffold691-665303	13	61255797	G	A	0.93	0.82	0.97	0.89	0.86	0.83
snp48652-scaffold691-636088	13	61284707	A	G	0.83	0.71	0.92	0.44	0.92	0.64
snp48651-scaffold691-601620	13	61318983	G	A	0.52	0.41	0.63	0.69	0.50	0.36
snp48650-scaffold691-560168	13	61360898	G	A	0.88	0.82	0.95	0.50	0.87	0.96
snp48649-scaffold691-515657	13	61405104	G	A	0.66	0.82	0.82	0.39	0.82	0.74
snp48648-scaffold691-438587	13	61482403	G	A	0.36	0.71	0.63	0.26	0.84	0.63
snp48647-scaffold691-382618	13	61538470	G	A	0.69	0.53	0.42	0.78	0.38	0.66
snp48646-scaffold691-352628	13	61568515	A	G	0.86	0.88	1.00	0.91	0.91	0.72
snp48644-scaffold691-245299	13	61663216	A	G	0.81	0.79	0.74	0.35	0.83	0.89
snp48642-scaffold691-163083	13	61744929	A	G	0.60	0.71	1.00	0.78	0.96	0.66
snp48641-scaffold691-99462	13	61809352	G	A	0.57	0.68	0.84	0.43	0.91	0.88
snp27797-scaffold298-41343	13	62273520	A	G	0.55	0.41	0.68	0.91	0.95	0.58
snp27799-scaffold298-154643	13	62386572	G	A	0.67	0.26	0.92	0.83	0.93	0.57
snp6538-scaffold1231-784814	13	62434555	A	G	0.78	0.82	0.87	0.85	0.41	0.61
snp6537-scaffold1231-750376	13	62468886	G	A	0.95	0.44	1.00	0.76	0.62	0.78
snp6536-scaffold1231-692487	13	62527100	A	G	0.95	0.76	0.89	0.98	0.88	0.68
snp6535-scaffold1231-657117	13	62562766	A	G	0.67	0.68	0.82	0.19	0.43	0.49
snp6533-scaffold1231-581545	13	62638197	G	A	0.33	0.29	0.24	0.81	0.61	0.53
snp6532-scaffold1231-540159	13	62679944	G	A	0.78	0.79	0.82	0.33	0.95	0.66
snp6531-scaffold1231-502221	13	62717706	G	A	0.40	0.82	0.79	0.91	0.78	0.68

snp6530-scaffold1231-438108	13	62783588	G	A	0.53	0.41	0.42	0.81	0.49	0.40
snp6529-scaffold1231-400642	13	62821046	G	A	0.67	0.50	0.55	0.78	0.57	0.70
snp6528-scaffold1231-360622	13	62860953	G	A	0.43	0.62	0.58	0.87	0.55	0.39
snp6527-scaffold1231-320179	13	62900048	A	G	0.74	0.79	0.50	0.87	0.97	0.89
snp6526-scaffold1231-267192	13	62951083	A	G	0.17	0.59	0.58	0.07	0.96	0.44
snp6525-scaffold1231-224623	13	62993649	A	G	0.55	0.76	0.66	0.30	0.76	0.74
snp6524-scaffold1231-179272	13	63039600	G	A	0.86	0.79	0.95	0.98	1.00	0.37
snp6522-scaffold1231-103243	13	63117523	A	G	0.34	0.65	0.68	0.31	0.76	0.66
snp55185-scaffold849-19136	13	63480879	A	C	0.60	0.59	0.74	0.78	0.49	0.66
snp12122-scaffold1449-23019	13	63523102	A	G	0.28	0.41	0.47	0.78	0.47	0.31
snp12123-scaffold1449-73636	13	63573027	G	A	0.79	0.71	0.66	0.26	0.76	0.90
snp12124-scaffold1449-129140	13	63628575	G	A	0.71	0.82	0.61	0.24	0.75	0.59
snp12125-scaffold1449-187249	13	63686657	G	A	0.84	0.82	0.68	0.28	0.95	0.73
snp12126-scaffold1449-231513	13	63730956	A	G	0.47	0.76	0.74	0.85	0.34	0.64
snp12127-scaffold1449-287213	13	63786338	G	A	0.74	0.71	0.61	0.33	0.70	0.64
snp12128-scaffold1449-337427	13	63836533	G	A	0.83	0.79	0.84	0.89	0.70	0.61
snp12129-scaffold1449-367636	13	63866605	A	G	0.81	0.91	0.84	0.28	0.59	0.52
snp12130-scaffold1449-404096	13	63903011	G	A	0.84	0.71	0.97	0.35	0.71	0.89
snp12131-scaffold1449-486854	13	63986453	G	A	0.79	0.74	0.97	0.35	0.72	0.92
snp12132-scaffold1449-518405	13	64018361	A	G	0.52	0.56	0.53	0.81	0.26	0.54
snp5921-scaffold1209-20025	13	64064460	A	G	0.55	0.76	0.79	0.17	0.72	0.56
snp5925-scaffold1209-222729	13	64266896	A	G	0.86	0.65	0.68	0.13	0.78	0.76
snp5926-scaffold1209-252270	13	64296608	A	G	0.66	0.62	0.61	0.30	0.47	0.72
snp5927-scaffold1209-294269	13	64338053	G	A	0.62	0.65	0.32	0.30	0.80	0.76
snp5928-scaffold1209-336872	13	64380407	A	G	0.81	0.79	0.84	0.87	0.61	0.84
snp5929-scaffold1209-372636	13	64416139	A	G	0.88	0.76	0.97	0.28	0.84	0.93
snp5930-scaffold1209-402211	13	64445688	A	G	0.72	0.62	0.74	0.30	0.68	0.52
snp5931-scaffold1209-464725	13	64508186	A	G	0.29	0.53	0.79	0.79	0.55	0.79
snp5932-scaffold1209-512212	13	64555548	A	G	0.52	0.29	0.18	0.72	0.83	0.64
snp5933-scaffold1209-543990	13	64587641	A	G	0.55	0.71	0.66	0.30	0.64	0.64
snp5934-scaffold1209-599648	13	64643472	A	G	0.55	0.79	0.89	0.30	0.70	0.64
snp5935-scaffold1209-650225	13	64694045	A	G	0.33	0.32	0.58	0.20	0.70	0.44
snp5936-scaffold1209-699872	13	64743830	G	A	0.67	0.62	0.61	0.78	0.29	0.47
snp5938-scaffold1209-790101	13	64834404	A	G	0.90	0.76	0.95	0.26	0.92	0.74
snp5939-scaffold1209-820717	13	64864407	G	A	0.79	0.85	1.00	0.30	0.97	0.68
snp5940-scaffold1209-863272	13	64906931	G	A	0.66	0.38	0.34	0.76	0.50	0.33
snp5941-scaffold1209-913269	13	64956030	A	G	0.57	0.62	0.53	0.22	0.66	0.78
snp5429-scaffold1188-2879889	13	64999299	G	A	0.76	0.91	0.55	0.91	0.32	0.76
snp5428-scaffold1188-2846852	13	65032336	G	A	0.69	0.88	0.87	0.85	0.32	0.57
snp5427-scaffold1188-2815388	13	65063907	G	A	0.88	0.79	0.66	0.96	0.49	0.76
snp5426-scaffold1188-2785940	13	65093903	G	A	0.60	0.62	0.50	0.94	0.58	0.79
snp5423-scaffold1188-2614332	13	65263105	G	A	0.29	0.85	0.74	0.22	0.75	0.78
snp5421-scaffold1188-2522219	13	65355347	A	G	0.91	0.94	0.79	0.96	0.80	0.94

snp5417-scaffold1188-2340332	13	65537674	G	A	0.74	0.91	0.89	0.89	0.95	0.76
snp5416-scaffold1188-2295194	13	65583170	A	C	0.50	0.56	0.66	0.61	0.39	0.76
snp5415-scaffold1188-2221283	13	65654686	G	A	0.74	0.38	0.61	0.54	0.72	0.52
snp5414-scaffold1188-2181656	13	65694441	C	A	0.33	0.50	0.71	0.63	0.43	0.66
snp5412-scaffold1188-2047654	13	65827525	A	G	1.00	0.97	1.00	1.00	0.76	0.99
snp5411-scaffold1188-1980699	13	65893885	A	G	0.71	0.68	0.89	0.67	0.46	0.73
snp5410-scaffold1188-1944493	13	65929808	G	A	0.76	0.38	0.37	0.69	0.76	0.80
snp5409-scaffold1188-1914715	13	65959346	G	A	0.59	0.47	0.50	0.48	0.42	0.51
snp5408-scaffold1188-1885712	13	65988705	G	A	0.69	0.62	0.87	0.80	0.45	0.72
snp5407-scaffold1188-1852940	13	66021511	G	A	0.83	0.82	0.56	0.22	0.83	0.69
snp5405-scaffold1188-1779006	13	66095996	G	A	0.81	0.76	0.97	0.85	0.87	0.78
snp5404-scaffold1188-1738098	13	66136130	A	G	0.62	0.82	0.79	0.78	0.47	0.57
snp5403-scaffold1188-1707748	13	66166425	A	G	0.86	1.00	0.95	1.00	0.58	0.81
snp5401-scaffold1188-1606247	13	66268297	A	G	0.74	0.74	0.82	0.85	0.87	0.73
snp5400-scaffold1188-1575487	13	66299017	G	A	0.48	0.74	0.82	0.70	0.68	0.57
snp5399-scaffold1188-1520444	13	66353850	A	G	0.69	0.38	0.74	0.83	0.64	0.71
snp5395-scaffold1188-1372386	13	66501097	G	A	0.45	0.41	0.71	0.59	0.74	0.53
snp5394-scaffold1188-1330690	13	66542955	G	A	0.86	0.88	0.39	0.74	0.42	0.54
snp51098-scaffold742-443300	20	46495170	A	G	0.69	0.74	0.42	0.78	0.62	0.69
snp51097-scaffold742-396098	20	46542884	A	C	0.47	0.68	0.79	0.83	0.62	0.68
snp51093-scaffold742-203727	20	46736021	A	G	0.40	0.32	0.32	0.65	0.61	0.57
snp51091-scaffold742-109218	20	46828372	A	G	0.69	0.68	0.84	0.70	0.43	0.71
snp51090-scaffold742-61884	20	46875702	G	A	0.95	0.85	0.97	0.96	0.54	0.94
snp51089-scaffold742-12793	20	46925747	A	G	0.83	0.91	0.84	0.94	0.38	0.54
snp14428-scaffold1576-16025	20	46967509	G	A	0.64	0.88	0.79	0.94	0.24	0.52
snp14429-scaffold1576-65789	20	47015860	A	G	0.72	0.82	0.32	0.78	0.68	0.50
snp14430-scaffold1576-113393	20	47063742	G	A	0.36	0.91	0.39	0.83	0.51	0.52
snp14431-scaffold1576-143213	20	47095159	C	A	0.78	0.47	0.89	0.43	0.66	0.70
snp14432-scaffold1576-179983	20	47132893	A	C	0.48	0.79	0.66	0.33	0.43	0.62
snp14433-scaffold1576-214232	20	47167387	A	G	0.41	0.71	0.37	0.57	0.72	0.70
snp14434-scaffold1576-243719	20	47196921	A	G	0.55	0.97	0.97	0.76	0.58	0.96
snp57432-scaffold916-65236	20	47311491	A	G	0.64	0.38	0.68	0.30	0.63	0.48
snp57434-scaffold916-143906	20	47393808	G	A	0.81	0.71	0.55	0.37	0.61	0.27
snp57435-scaffold916-184613	20	47434736	G	A	0.71	0.38	0.21	0.70	0.64	0.44
snp57437-scaffold916-265022	20	47516402	G	A	0.71	0.91	0.45	0.57	0.58	0.62
snp57438-scaffold916-295036	20	47546381	G	A	0.50	0.68	0.76	0.89	0.83	0.86
snp57439-scaffold916-324919	20	47576607	A	G	0.72	0.79	0.45	0.35	0.34	0.56
snp57440-scaffold916-366019	20	47618821	A	G	0.79	0.76	0.45	0.70	0.46	0.62
snp57441-scaffold916-432419	20	47685798	G	A	0.69	0.79	0.50	0.44	0.67	0.90
snp57443-scaffold916-509375	20	47763309	A	C	0.33	0.68	0.55	0.57	0.50	0.50
snp57444-scaffold916-565285	20	47819874	A	G	0.76	0.65	0.61	0.57	0.46	0.71
snp57445-scaffold916-634822	20	47890918	A	G	0.64	0.53	0.47	0.81	0.47	0.47
snp34080-scaffold40-5934922	20	47942190	A	C	0.59	0.85	0.55	0.83	0.83	0.67

snp34077-scaffold40-5827789	20	48049951	G	A	0.64	0.21	0.68	0.76	0.33	0.59
snp34075-scaffold40-5751561	20	48127119	C	A	0.60	0.06	0.47	0.61	0.25	0.52
snp34074-scaffold40-5696142	20	48183408	A	G	0.60	0.09	0.76	0.78	0.41	0.58
snp34073-scaffold40-5648593	20	48231250	C	A	0.36	0.32	0.61	0.39	0.75	0.64
snp34072-scaffold40-5599020	20	48281756	G	A	0.52	0.26	0.39	0.65	0.42	0.56
snp34070-scaffold40-5503844	20	48377212	A	G	0.60	0.59	0.61	0.24	0.43	0.60
snp34069-scaffold40-5468396	20	48412677	C	A	0.31	0.56	0.18	0.83	0.76	0.54
snp34068-scaffold40-5436207	20	48445048	G	A	0.84	0.85	0.39	0.17	0.38	0.64
snp34067-scaffold40-5406654	20	48474629	G	A	0.50	0.82	0.61	0.67	0.63	0.56
snp34065-scaffold40-5340021	20	48542170	G	A	0.76	0.76	0.84	0.48	0.80	0.63
snp34063-scaffold40-5264553	20	48620688	G	A	0.71	0.74	0.92	0.72	0.64	0.79
snp34062-scaffold40-5230608	20	48654667	C	A	0.81	0.97	0.84	0.98	0.82	0.68
snp34061-scaffold40-5191067	20	48694292	G	A	0.66	0.76	0.61	0.96	0.84	0.73
snp34059-scaffold40-5127504	20	48758806	G	A	0.43	0.38	0.37	0.74	0.64	0.47
snp34058-scaffold40-5092328	20	48794486	A	G	0.67	0.68	0.42	0.28	0.42	0.58
snp34056-scaffold40-5015633	20	48871142	G	A	0.41	0.76	0.74	0.78	0.58	0.60
snp34054-scaffold40-4944480	20	48941295	A	G	0.52	0.24	0.68	0.70	0.41	0.71
snp34051-scaffold40-4763094	20	49123937	A	G	0.76	0.38	0.37	0.39	0.72	0.76
snp34050-scaffold40-4706252	20	49180942	A	G	0.78	0.74	0.66	0.80	0.76	0.63
snp34046-scaffold40-4552204	20	49335536	A	G	0.52	0.47	0.71	0.31	0.53	0.79
snp34045-scaffold40-4521116	20	49367313	A	C	0.47	0.21	0.74	0.39	0.47	0.73
snp34044-scaffold40-4483699	20	49404860	A	G	0.88	0.97	0.32	0.89	0.96	0.50
snp34041-scaffold40-4319824	20	49568821	C	A	0.71	0.82	0.79	0.74	0.66	0.84
snp34040-scaffold40-4261985	20	49629932	A	G	0.81	0.91	0.53	0.35	0.74	0.78
snp34039-scaffold40-4225256	20	49667564	G	A	1.00	0.59	0.95	0.83	0.70	0.63
snp34037-scaffold40-4148997	20	49743955	G	A	0.53	0.71	0.82	0.83	0.74	0.69
snp34036-scaffold40-4095297	20	49798016	A	G	0.71	0.82	0.47	0.31	0.49	0.30
snp34035-scaffold40-4041489	20	49852306	G	A	0.90	0.94	0.95	0.72	0.65	0.60
snp34033-scaffold40-3961856	20	49927473	G	A	0.72	0.94	0.92	0.93	0.47	0.60
snp34032-scaffold40-3932831	20	49956533	G	A	0.69	0.44	0.45	0.72	0.39	0.57
snp34031-scaffold40-3900976	20	49988401	A	G	0.91	0.82	0.82	0.80	0.84	0.72
snp34029-scaffold40-3825423	20	50063724	G	A	0.86	0.97	0.82	0.89	0.50	0.83